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JAPAN SPECIFIED RADIO EQUIPMENT

TEST REPORT

For

WiFi+Bluetooth 4.1(HS) System on Module

Trade Name: TechNexion

Model: PIXI-9377

Issued to

TechNexion Ltd.

**16f-5, No.736, Zhongzheng Road, Zhonghe Dist., New Taipei City, 23511 Taiwan
ROC**

Issued by

Compliance Certification Services Inc.

Wugu Laboratory

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan, R.O.C.**

Issued Date: August 17, 2018

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 17, 2018	Initial Issue	ALL	Allison Chen
01	September 10, 2018	1. Revised FPC antenna gain.	P.20	Allison Chen



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1. TEST RESULT CERTIFICATION

Applicant: TechNexion Ltd.
16f-5, No.736, Zhongzheng Road, Zhonghe Dist., New Taipei City, 23511 Taiwan ROC

Manufacturer: TechNexion Ltd.
16f-5, No.736, Zhongzheng Road, Zhonghe Dist., New Taipei City, 23511 Taiwan ROC

Equipment Under Test: WiFi+Bluetooth 4.1(HS) System on Module

Trade Name: TechNexion

Model Number: PIXI-9377

Detailed EUT Description: See Item 3 of this report

Date of Test: July 9 ~ 16, 2018

EUT Receive Date June 27, 2018

APPLICABLE STANDARDS	
CLASSIFICATION	TEST RESULT
ARIB STD T-71 Ver 6.1	No non-compliance noted

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in ARIB STD T-66 Ver.3.7 and ARIB STD T-71 Ver 6.1. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sam Chuang
Manager
Compliance Certification Services Inc.

Tested by:

Dally Hong
Engineer
Compliance Certification Services Inc.

2. SUMMARY OF TEST RESULTS

2.1 WLAN IEEE 802.11a (W52 & W53 & W56)

APPLIED STANDARD: ARIB STD T-71 Ver 6.1			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	6.1	Frequency Error	PASS
6	6.4	Occupied Bandwidth	PASS
7	6.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	6.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	4.2	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	6.5	Limitation of Collateral Emission of Receiver	PASS
26	4.2	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 5180 ~ 5240MHz (20MHz Space 4 Channels)			
49.20(3);a	4.3	RF Shielding Method	PASS
49.20(3);b	3/4	Communication Method	PASS
49.20(3);c	3/4	Modulation Method	PASS
49.20(3);d	3/4	Signal Transmission Rate	PASS
49.20(3);e	2.1	Transmission Burst Length	PASS
49.20(3);f	6.2	Antenna Power	PASS
49.20(3);g	2.1	Equivalent Isotropic Radiated Power	PASS
49.20(3);h	-	Number of Carriers	PASS
49.20(3);i	-	Spreading Factor	PASS
49.20(3);j	6.6	Out-Band Leakage Power	PASS
49.20(3);j	6.7	Adjacent Channel Leakage Power	PASS
49.20(3);k	-	Comply with The Technical Conditions	PASS



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Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	GID/D1D	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	1[mW/MHz]	Temp. / Humid.	25 °C / 46%
	Frequency	5150 ~ 5350 MHz (20MHz separation 8CH)			Test Conducted By	Daily.Hong
					Department	RF Testing Department

2. Test Results

Test Results		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks
Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2			
Test Frequency		MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320	
Measured Frequency		MHz	5180.0029	5240.0029	5320.0029							
Frequency Error		ppm	0.56	0.55	0.54							±20 ppm within
Occupied Bandwidth		MHz	16.32	16.32	16.32							18 MHz or below
Adjacent Channel Leakage Power	-20MHz	dB	36.10	35.98	35.77							Limit ≥ 25dB (18MHz)
	+20MHz	dB	35.31	35.39	35.79							Limit ≥ 25dB (18MHz)
	-40MHz	dB	40.37	40.70	41.36							Limit ≥ 40dB (18MHz)
	+40MHz	dB	40.18	41.20	41.74							Limit ≥ 40dB (18MHz)
W52&W53 Unwanted Emission Intensity	※1	μW/MHz	0.0132	0.0143	0.0132							0.25 uW/MHz or below
	※2	μW/MHz	0.3981	0.3936	0.4064							2.5 uW/MHz or below
	※3	μW/MHz	1.1350	1.3428	1.5812							2.5 uW/MHz or below
Test Frequency		MHz	5180	5200	5240	5180	5200	5240	5180	5200	5240	
W52 Spurious Emission Intensity	※4	μW/MHz	1.3646	1.3932	1.4655							2.5 uW/MHz or below
	※5	μW/MHz	4.8084	1.4289	1.5101							15 uW/MHz or below
	※6	μW/MHz	1.7824	1.8030	182.3896							1000~100 uW/MHz or below
	※7	μW/MHz	1.4689	1.5136	87.2971							100~15.8 uW/MHz or below
	※8	μW/MHz	1.5066	1.5453	10.3753							15.8~2.5 uW/MHz or below
	※9	μW/MHz	1.4894	1.4928	0.2992							2.5 uW/MHz or below
Test Frequency		MHz	5260	5300	5320	5260	5300	5320	5260	5300	5320	
W53 Spurious Emission Intensity	※10	μW/MHz	0.2951	1.4355	1.5066							2.5 uW/MHz or below
	※11	μW/MHz	13.0317	1.5885	1.9498							2.5~15.8 uW/MHz or below
	※12	μW/MHz	75.3356	1.8493	1.5885							15.8~100 uW/MHz or below
	※13	μW/MHz	176.1976	2.3550	1.7742							100~1000 uW/MHz or below
	※14	μW/MHz	1.5101	1.5560	0.1009							2.5 uW/MHz or below
Test Frequency		MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320	
EIRP Power		mW/MHz	2.5468	2.9242	3.6141							For 20M Limit ≤ 10 mW/MHz - Antenna power & EIRP power
Antenna Power (Conductive)		mW/MHz	0.6397	0.7345	0.9078							For W53-20M, EIRP ≤ 5mW/MHz, w/o TPC function
Antenna Power Error		mW/MHz	-0.36027	-0.26549	-0.09218							
Test Frequency		%	-36.03	-26.55	-9.22							+ 20 , - 80 % within
Limitation of Collateral Emission of Receiver	※15	nW/100KHz	0.0166	0.0150	0.0203							4 nW or below
	※16	nW/MHz	1.0280	1.2023	0.8851							20 nW or below
Carrier Sense	ID Code		MAC Address (6147AA103102)									
	Frequency	MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320	
	Mini Gain	dB	2.99	2.99	2.99							
	Level	dBm	-48.51	-48.61	-48.74							Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	Result	Pass/Fail	Pass	Pass	Pass							

※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)

※ 2 : Frequency Band 2 (1,000MHz ~ 5,135MHz)

※ 3 : Frequency Band 3 (more than 5,365MHz ~ 26,000MHz)

※ 4 : Frequency Band 4 (5,135MHz ~ less than 5,142MHz)

※ 5 : Frequency Band 5 (5,142MHz ~ 5,150MHz)

※ 6 : Frequency Band 6 (5,250MHz ~ 5,251MHz)

※ 7 : Frequency Band 7 (5,251MHz ~ less than 5,260MHz)

※ 8 : Frequency Band 8 (5,260MHz ~ 5,266.7MHz)

※ 9 : Frequency Band 9 (5,266.7MHz ~ 5,365MHz)

※ 10 : Frequency Band 10 (5,135MHz ~ less than 5,233.3MHz)

※ 11 : Frequency Band 11 (5,233.3MHz ~ 5,240MHz)

※ 12 : Frequency Band 12 (5,240MHz ~ 5,249MHz)

※ 13 : Frequency Band 13 (5,2491MHz ~ 5,250MHz)

※ 14 : Frequency Band 14 (5,350MHz ~ 5,365MHz)

※ 15 : Frequency Band 15 (30MHz ~ 1,000MHz)

※ 16 : Frequency Band 16 (1GHz ~ 26GHz)

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Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	G/D/D1D	Serial No.		Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	1[mW/MHz]	Temp. / Humid.	25℃ / 46%
	Frequency	5470 ~ 5725 MHz (20MHz separation 8CH)			Test Conducted By	Dally.Hong
					Department	RF Testing Department

2. Test Results

Test Results													
Testing for Electrical Specification	Test Voltage		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks
	Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2			
	Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
	Measured Frequency		MHz	5500.00362	5600.00579	5700.00579							
	Frequency Error		ppm	0.66	1.03	1.02							
	Occupied Bandwidth		MHz	16.32	16.32	16.32							
	Adjacent Channel Leakage Power		-20MHz	dB	34.52	33.18	35.24						Limit ≥ 25dB (18MHz)
			+20MHz	dB	32.14	32.17	34.95						Limit ≥ 25dB (18MHz)
			-40MHz	dB	42.13	42.15	40.50						Limit ≥ 40dB (18MHz)
			+40MHz	dB	41.87	42.46	40.75						Limit ≥ 40dB (18MHz)
	W56 Unwanted Emission Intensity		※1	μW/MHz	0.01528	0.01358	0.01489						0.25 uW/MHz or below
			※2	μW/MHz	0.31989	0.32885	0.31989						2.5 uW/MHz or below
			※3	μW/MHz	1.47571	1.51008	1.43880						2.5 uW/MHz or below
	Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
	W56 Spurious Emission Intensity		※4	μW/MHz	1.06170	0.34514	0.37931						2.5 uW/MHz or below
			※5	μW/MHz	2.49459	0.39719	0.44259						12.5 uW/MHz or below
			※6	μW/MHz	0.46666	0.43351	4.75335						12.5 uW/MHz or below
			※7	μW/MHz	0.45290	0.50003	1.32739						2.5 uW/MHz or below
	Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
	EIRP Power		mW/MHz	2.70396	3.27341	3.88150							For 20M Limit ≤ 10 mW/MHz - Antenna power & EIRP power ≤ 50 mW/MHz
	Antenna Power (Conductive)		mW/MHz	0.67920	0.82224	0.97499							For W56-20M, EIRP ≤ 25mW/MHz, w/o TPC function
	Antenna Power Error		mW/MHz	-0.32080	-0.17776	-0.02501							
			%	-32.08	-17.78	-2.50							+ 50 , - 50 % within
	Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
	Limitation of Collateral Emission of Receiver		※8	nW/MHz	0.01618	0.01862	0.01738						4 nW or below
			※9	nW/MHz	1.11944	1.01859	1.11944						20 nW or below
		ID Code	MAC Address (6147AA103102)										
Carrier Sense		Frequency	MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
		Mini Gain	dBm	2.99	2.99	2.99							
		Level	dBm	-49.03	-49.18	-49.34							
		Result	Pass/Fail	Pass	Pass	Pass							
			Pin = 22.79+Gr-20*log(freq_MHz) [dBm]										

※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)

※ 2 : Frequency Band 2 (1,000MHz ~ less than 5,455MHz)

※ 3 : Frequency Band 3 (5,745MHz ~ less than 26,000MHz)

※ 4 : Frequency Band 4 (5,455MHz ~ less than 5,460MHz)

※ 5 : Frequency Band 5 (5,460MHz ~ less than 5,470MHz)

※ 6 : Frequency Band 6 (5,725MHz ~ less than 5,740MHz)

※ 7 : Frequency Band 7 (5,740MHz ~ 5,745MHz)

※ 8 : Frequency Band 8 (30MHz ~ 1,000MHz)

※ 9 : Frequency Band 9 (1GHz ~ 26GHz)

2.2 WLAN IEEE 802.11n HT 20 (W52 & W53 & W56)

APPLIED STANDARD: ARIB STD T-71 Ver 6.1			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	7.1	Frequency Error	PASS
6	7.4	Occupied Bandwidth	PASS
7	7.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	7.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	4.2	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	7.5	Limitation of Collateral Emission of Receiver	PASS
26	4.2	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 5180 ~ 5240MHz (20MHz Space 4 Channels)			
49.20(3);a	4.3	RF Shielding Method	PASS
49.20(3);b	3/4	Communication Method	PASS
49.20(3);c	3/4	Modulation Method	PASS
49.20(3);d	3/4	Signal Transmission Rate	PASS
49.20(3);e	2.2	Transmission Burst Length	PASS
49.20(3);f	7.2	Antenna Power	PASS
49.20(3);g	2.2	Equivalent Isotropic Radiated Power	PASS
49.20(3);h	-	Number of Carriers	PASS
49.20(3);i	-	Spreading Factor	PASS
49.20(3);j	7.6	Out-Band Leakage Power	PASS
49.20(3);j	7.7	Adjacent Channel Leakage Power	PASS
49.20(3);k	-	Comply with The Technical Conditions	PASS

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Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	GID	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	0.85[mW/MHz]	Temp. / Humid.	26 °C / 58%
	Frequency	5150 ~ 5350 MHz (20MHz separation 8CH)			Test Conducted By	Daily Hong
					Department	RF Testing Department

2. Test Results

Test Voltage		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks	
Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2				
Test Frequency		MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320		
Measured Frequency		MHz	5180.0043	5240.0029	5320.0022								
Frequency Error		ppm	0.84	0.55	0.41							±20 ppm within	
Occupied Bandwidth		MHz	17.45	17.37	17.41							18 MHz or below	
Adjacent Channel Leakage Power		-20MHz	dB	35.31	34.88	34.88						Limit ≥ 25dB (18MHz)	
		+20MHz	dB	33.09	35.20	35.31						Limit ≥ 25dB (18MHz)	
		-40MHz	dB	40.40	40.74	41.34						Limit ≥ 40dB (18MHz)	
		+40MHz	dB	40.01	40.82	41.69						Limit ≥ 40dB (18MHz)	
		※1	μW/MHz	0.0133	0.0157	0.0138						0.25 uW/MHz or below	
W52&W53 Unwanted Emission Intensity		※2	μW/MHz	0.3214	0.3048	0.3388						2.5 uW/MHz or below	
		※3	μW/MHz	1.3366	1.1535	1.4388						2.5 uW/MHz or below	
		Test Frequency	MHz	5180	5200	5240	5180	5200	5240	5180	5200	5240	
W52 Spurious Emission Intensity		※4	μW/MHz	1.2503	1.3868	1.3772						2.5 uW/MHz or below	
		※5	μW/MHz	4.8978	1.4158	1.3274						15 uW/MHz or below	
		※6	μW/MHz	1.9409	1.9187	24.2103						1000~100 uW/MHz or below	
		※7	μW/MHz	1.6904	1.5996	12.3027						100~15.8 uW/MHz or below	
		※8	μW/MHz	1.6672	1.4825	1.7498						15.8~2.5 uW/MHz or below	
		※9	μW/MHz	1.4028	1.5311	0.2951						2.5 uW/MHz or below	
Test Frequency		MHz	5260	5300	5320	5260	5300	5320	5260	5300	5320		
W53 Spurious Emission Intensity		※10	μW/MHz	0.3319	1.5631	1.4622						2.5 uW/MHz or below	
		※11	μW/MHz	11.4025	1.4421	1.9498						2.5~15.8 uW/MHz or below	
		※12	μW/MHz	90.7821	1.6069	1.5740						15.8~100 uW/MHz or below	
		※13	μW/MHz	257.0396	1.8239	1.5276						100~1000 uW/MHz or below	
		※14	μW/MHz	1.5453	1.5885	1.4355						2.5 uW/MHz or below	
Test Frequency		MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320		
EIRP Power		mW/MHz	2.4831	2.8774	3.1046							For 20M Limit ≤ 10 mW/MHz - Antenna power & EIRP power	
Antenna Power (Conductive)		mW/MHz	0.6237	0.7228	0.7798							For W53-20M, EIRP ≤ 5mW/MHz, w/o TPC function	
Antenna Power Error		mW/MHz	-0.22627	-0.12723	-0.07017								
		%	-26.62	-14.97	-8.26							+ 20 , - 80 % within	
Test Frequency		MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320		
Limitation of Collateral Emission of Receiver		※15	nW/100KHz	0.0191	0.0168	0.0162						4 nW or below	
		※16	nW/MHz	0.9977	0.9750	1.1535						20 nW or below	
		ID Code	MAC Address (6147AA103102)										
Carrier Sense		Frequency	MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320	
		Mini Gain	dB	2.99	2.99	2.99							
		Level	dBm	-48.51	-48.61	-48.74							Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
		Result	Pass/Fail	Pass	Pass	Pass							

- ※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)
 ※ 2 : Frequency Band 2 (1,000MHz ~ 5,135MHz)
 ※ 3 : Frequency Band 3 (more than 5,365MHz ~ 26,000MHz)
 ※ 4 : Frequency Band 4 (5,135MHz ~ less than 5,142MHz)
 ※ 5 : Frequency Band 5 (5,142MHz ~ 5,150MHz)
 ※ 6 : Frequency Band 6 (5,250MHz ~ 5251MHz)

- ※ 7 : Frequency Band 7 (5,251MHz ~ less than 5,260MHz)
 ※ 8 : Frequency Band 8 (5,260MHz ~ 5,266.7MHz)
 ※ 9 : Frequency Band 9 (5,266.7MHz ~ 5,365MHz)
 ※ 10 : Frequency Band 10 (5,135MHz ~ less than 5,233.3MHz)
 ※ 11 : Frequency Band 11 (5,233.3MHz ~ 5,240MHz)
 ※ 12 : Frequency Band 12 (5,240MHz ~ 5,249MHz)

- ※ 13 : Frequency Band 13 (5,2491MHz ~ 5,250MHz)
 ※ 14 : Frequency Band 14 (5,350MHz ~ 5,365MHz)
 ※ 15 : Frequency Band 15 (30MHz ~ 1,000MHz)
 ※ 16 : Frequency Band 16 (1GHz ~ 26GHz)

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Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	GID	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	0.85[mW/MHz]	Temp. / Humid.	26°C / 58%
	Frequency	5470 ~ 5725 MHz (20MHz separation 8CH)			Test Conducted By	Dally Hong
					Department	RF Testing Department

2. Test Results

Test Voltage		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks
Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2			
Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
Measured Frequency		MHz	5500.00362	5600.00362	5700.00579							
Frequency Error		ppm	0.66	0.65	1.02							±20 ppm within
Occupied Bandwidth		MHz	17.37	17.37	17.41							19.7 MHz or below
Adjacent Channel Leakage Power	-20MHz	dB	34.04	32.64	34.14							Limit ≥ 25dB (18MHz)
	+20MHz	dB	31.97	33.41	34.15							Limit ≥ 25dB (18MHz)
	-40MHz	dB	42.16	41.77	40.57							Limit ≥ 40dB (18MHz)
	+40MHz	dB	42.18	41.91	40.73							Limit ≥ 40dB (18MHz)
W56 Unwanted Emission Intensity	※1	μW/MHz	0.01432	0.01574	0.01488							0.25 uW/MHz or below
	※2	μW/MHz	0.34119	0.33806	0.31696							2.5 uW/MHz or below
	※3	μW/MHz	1.47571	1.37088	1.44212							2.5 uW/MHz or below
Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
W56 Spurious Emission Intensity	※4	μW/MHz	1.35207	1.56315	1.58489							2.5 uW/MHz or below
	※5	μW/MHz	4.75335	1.66725	1.62181							12.5 uW/MHz or below
	※6	μW/MHz	1.90546	1.82810	10.69055							12.5 uW/MHz or below
	※7	μW/MHz	1.86638	1.72187	1.80302							2.5 uW/MHz or below
Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
EIRP Power		mW/MHz	2.58226	2.98538	3.31894							For 20M Limit ≤ 10 mW/MHz - Antenna power & EIRP power ≤ 50 mW/MHz
Antenna Power (Conductive)		mW/MHz	0.64863	0.74989	0.83368							For W56-20M, EIRP ≤ 25mW/MHz, w/o TPC function
Antenna Power Error		mW/MHz	-0.20137	-0.10011	-0.01632							
		%	-23.69	-11.78	-1.92							+ 50 , - 50 % within
Test Frequency		MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
Limitation of Collateral Emission of Receiver	※8	nW/100KHz	0.01710	0.01652	0.01919							4 nW or below
	※9	nW/MHz	1.05196	1.13501	0.99770							20 nW or below
		ID Code	MAC Address (6147AA103102)									
Carrier Sense	Frequency	MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
	Mini Gain	dBi	2.99	2.99	2.99							
	Level	dBm	-49.03	-49.18	-49.34							Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	Result	Pass/Fail	Pass	Pass	Pass							

※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)
 ※ 2 : Frequency Band 2 (1,000MHz ~ less than 5,455MHz)
 ※ 3 : Frequency Band 3 (5,745MHz ~ less than 26,000MHz)

※ 4 : Frequency Band 4 (5,455MHz ~ less than 5,460MHz)
 ※ 5 : Frequency Band 5 (5,460MHz ~ less than 5,470MHz)
 ※ 6 : Frequency Band 6 (5,725MHz ~ less than 5,740MHz)

※ 7 : Frequency Band 7 (5,740MHz ~ 5,745MHz)
 ※ 8 : Frequency Band 8 (30MHz ~ 1,000MHz)
 ※ 9 : Frequency Band 9 (1GHz ~ 26GHz)

2.3 WLAN IEEE 802.11n HT 40 (W52 & W53 & W56)

APPLIED STANDARD: ARIB STD T-71 Ver 6.1			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	8.1	Frequency Error	PASS
6	8.4	Occupied Bandwidth	PASS
7	8.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	8.3	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	4.2	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	8.5	Limitation of Collateral Emission of Receiver	PASS
26	4.2	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 5190 ~ 5230MHz (20MHz Space 2 Channels)			
49.20(3);a	4.3	RF Shielding Method	PASS
49.20(3);b	3/4	Communication Method	PASS
49.20(3);c	3/4	Modulation Method	PASS
49.20(3);d	3/4	Signal Transmission Rate	PASS
49.20(3);e	2.3	Transmission Burst Length	PASS
49.20(3);f	8.2	Antenna Power	PASS
49.20(3);g	2.3	Equivalent Isotropic Radiated Power	PASS
49.20(3);h	-	Number of Carriers	PASS
49.20(3);i	-	Spreading Factor	PASS
49.20(3);j	8.6	Out-Band Leakage Power	PASS
49.20(3);j	8.7	Adjacent Channel Leakage Power	PASS
49.20(3);k	-	Comply with The Technical Conditions	PASS

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Test Report

Test Date	2018/7/16
Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
Temp. / Humid.	26°C / 48%
Test Conducted By	Dally.Hong
Name	Dally.Hong
Department	RF Testing Department

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Temp. / Humid.	26℃ / 48%
	Type of Emission	G1D/D1D	Serial No.	1	Test Conducted By	
	Modulation Type	OFDM	Antenna Power	0.72[mW/MHz]	Name	Dally.Hong
	Frequency	5150 ~ 5350 MHz (40MHz separation 4 CH)				Department

2. Test Results

Testing for Electrical Specification	Test Voltage		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks
	Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2			
	Test Frequency		MHz	5190	5230	5310	5190	5230	5310	5190	5230	5310	
	Measured Frequency		MHz	5190.0022	5230.0022	5310.0015							
	Frequency Error		ppm	0.42	0.41	0.27							±20 ppm within
	Occupied Bandwidth		MHz	35.77	35.77	35.77							38 MHz or below
	Adjacent Channel Leakage Power		-40MHz	dB	30.44	28.36	27.52						Limit ≧ 25dB (38MHz)
			+40MHz	dB	30.96	28.08	26.11						Limit ≧ 25dB (38MHz)
			-80MHz	dB	42.22	40.96	40.36						Limit ≧ 40dB (38MHz)
			+80MHz	dB	41.52	41.67	40.46						Limit ≧ 40dB (38MHz)
	W52&W53 Unwanted Emission Intensity		※1	μW/MHz	0.0139	0.0141	0.0156						0.25 uW/MHz or below
			※2	μW/MHz	0.3327	0.3184	0.2023						2.5 uW/MHz or below
			※3	μW/MHz	0.8395	0.7178	0.8395						2.5 uW/MHz or below
	Test Frequency		MHz	5190	5230	5310	5190	5230	5310	5190	5230	5310	
	W52 Spurious Emission Intensity		※3	μW/MHz	0.0838	1.4928							2.5 uW/MHz or below
			※4	μW/MHz	9.7051	1.5101							15 uW/MHz or below
			※5	μW/MHz	2.3496	80.7235							500~50 uW/MHz or below
			※6	μW/MHz	2.3550	7.2277							50~7.924 uW/MHz or below
			※7	μW/MHz	1.8793	1.5488							7.924~2.547 uW/MHz or below
	Test Frequency		MHz	5270	5310		5270	5310		5270	5310		2.5 uW/MHz or below
W53 Spurious Emission Intensity		※9	μW/MHz	1.8197	1.3459							2.5 uW/MHz or below	
		※10	μW/MHz	0.1112	1.5453							2.5 uW/MHz or below	
		※11	μW/MHz	1.8793	1.9055							2.5~7.9 uW/MHz or below	
		※12	μW/MHz	5.3088	2.4774							7.9~50 uW/MHz or below	
		※13	μW/MHz	13.6773	2.7290							50~500 uW/MHz or below	
		※14	μW/MHz	2.0845	9.1201							15 uW/MHz or below	
		※15	μW/MHz	1.5740	1.5524							2.5 uW/MHz or below	
EIRP Power		mW/MHz	2.1184	2.1478	3.3806							For 40M Limit ≦ 5 mW/MHz - Antenna power & EIRP power	
Antenna Power (Conductive)		mW/MHz	0.5321	0.5395	0.8492							For W53-40M, EIRP ≦ 2.5mW/MHz, w/o TPC function	
Antenna Power Error		mW/MHz	-0.1879	-0.1805	0.1292								
		%	-26.10	-25.07	17.94							+ 20 , - 80 % within	
Test Frequency		MHz	5190	5230	5310	5190	5230	5310	5190	5230	5310		
Limitation of Collateral Emission of Receiver		※16	nW/100KHz	0.0200	0.0175	0.0165							4 nW or below
		※17	nW/MHz	0.9311	1.0093	1.5453							20 nW or below
		ID Code	MAC Address (6147AA103102)										
Carrier Sense		Frequency	MHz	5190	5230	5310	5190	5230	5310	5190	5230	5310	
		Mini Gain	dBm	2.99	2.99	2.99							
		Level	dBm	-48.52	-48.59	-48.72							Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
		Result	Pass/Fail	Pass	Pass	Pass							

※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)

※ 2 : Frequency Band 2 (1,000MHz ~ less than 5,100MHz)

※ 3 : Frequency Band 3 (5,400MHz ~ less than 26,000MHz)

※ 4 : Frequency Band 4 (5,100MHz ~ less than 5,142MHz)

※ 5 : Frequency Band 5 (5,142MHz ~ less than 5,150MHz)

※ 6 : Frequency Band 6 (5,250MHz ~ less than 5,251MHz)

※ 7 : Frequency Band 7 (5,251MHz ~ 5,270MHz)

※ 8 : Frequency Band 8 (5,270MHz ~ 5,275.8MHz)

※ 9 : Frequency Band 9 (5,100MHz ~ less than 5,210MHz)

※ 10 : Frequency Band 10 (5,210MHz ~ less than 5,224.2MHz)

※ 11 : Frequency Band 11 (5,224.2MHz ~ less than 5,230MHz)

※ 12 : Frequency Band 12 (5,230MHz ~ 5,249MHz)

※ 13 : Frequency Band 13 (5,249MHz ~ 5,250MHz)

※ 14 : Frequency Band 14 (5,350MHz ~ 5,355.8MHz)

※ 15 : Frequency Band 15 (5,355.8MHz ~ 5,400MHz)

※ 16 : Frequency Band 16 (30MHz ~ 1GHz)

※ 17 : Frequency Band 17 (1GHz ~ 26GHz)



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Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	G1D/D1D	Serial No.		Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	0.723[mW/MHz]	Temp. / Humid.	26℃ / 48%
	Frequency	5470 ~ 5725 MHz (40MHz separation 5CH)			Test Conducted By	Dally.Hong
					Name	Dally.Hong
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage		V	Normal Voltage (5V)			Normal Voltage (5V)			Normal Voltage (5V)			Remarks
	Antenna			Antenna 1			Antenna 2			Antenna 1+Antenna 2			
	Test Frequency		MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670	
	Measured Frequency		MHz	5510.00217	5590.00362	5670.00434							
	Frequency Error		ppm	0.39	0.65	0.77							±20 ppm within
	Occupied Bandwidth		MHz	35.77	35.77	35.77							38 MHz or below
	Adjacent Channel Leakage Power	-40MHz	dB	31.37510	31.17196	32.96546							Limit ≥ 25dB (38MHz)
		+40MHz	dB	26.84129	27.99797	29.48670							Limit ≥ 25dB (38MHz)
		-80MHz	dB	41.11490	41.29057	40.93577							Limit ≥ 40dB (38MHz)
		+80MHz	dB	40.33356	40.46951	40.89640							Limit ≥ 40dB (38MHz)
W56 Unwanted Emission Intensity	※1	μW/MHz	0.01334	0.01493	0.01403								0.25 uW/MHz or below
	※2	μW/MHz	0.31989	0.34277	0.31117								2.5 uW/MHz or below
	※3	μW/MHz	1.20226	1.20781	1.25026								2.5 uW/MHz or below
Test Frequency		MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670		
W56 Spurious Emission Intensity	※4	μW/MHz	3.58096	1.32739	1.33660								12.5 uW/MHz or below
	※5	μW/MHz	7.63836	1.51705	1.57761								50 uW/MHz or below
	※6	μW/MHz	1.87932	2.01837	2.44343								12.5 uW/MHz or below
Test Frequency		MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670		
EIRP Power		mW/MHz	2.31739	2.71644	4.30527								For 40M, Antenna power ≤ 5 mW/MHz & EIRP power ≤ 25 mW/MHz
Antenna Power (Conductive)		mW/MHz	0.52845	0.61944	0.98175								For W56-40M, EIRP ≤ 12.5mW/MHz, w/o TPC function
Antenna Power Error		mW/MHz	-0.19455	-0.10356	0.25875								
		%	-26.91	-14.32	35.79								+ 50 , - 50 % within
Test Frequency		MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670		
Limitation of Collateral Emission of Receiver	※7	nW/100KHz	0.01778	0.01687	0.01694								4 nW or below
	※8	nW/MHz	0.97499	1.18577	1.00231								20 nW or below
		ID Code	MAC Address (6147AA103102)										
Carrier Sense	Frequency	MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670		
	Mini Gain	dBm	2.99	2.99	2.99								
	Level	dBm	-49.04	-49.17	-49.29								Pin = 22.79+Gr-20*log(freq_MHz) [dBm]
	Result	Pass/Fail	Pass	Pass	Pass								

※ 1 : Frequency Band 1 (30MHz ~ less than 1,000MHz)

※ 2 : Frequency Band 2 (1,000MHz ~ less than 5,420MHz)

※ 3 : Frequency Band 3 (5,760MHz ~ less than 26,000MHz)

※ 4 : Frequency Band 4 (5,420MHz ~ less than 5,460MHz)

※ 5 : Frequency Band 5 (5,460MHz ~ less than 5,470MHz)

※ 6 : Frequency Band 6 (5,725MHz ~ less than 5,760MHz)

※ 7 : Frequency Band 7 (30MHz ~ 1GHz)

※ 8 : Frequency Band 8 (1GHz ~ 26GHz)

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2.4 WLAN IEEE 802.11n AC 80 (W52 & W53 & W56)

APPLIED STANDARD: ARIB STD T-71 Ver 6.1			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	9.1	Frequency Error	PASS
6	9.4	Occupied Bandwidth	PASS
7	9.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	9.3	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	4.2	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	9.5	Limitation of Collateral Emission of Receiver	PASS
26	4.2	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 5190 ~ 5230MHz (20MHz Space 2 Channels)			
49.20(3);a	4.3	RF Shielding Method	PASS
49.20(3);b	3/4	Communication Method	PASS
49.20(3);c	3/4	Modulation Method	PASS
49.20(3);d	3/4	Signal Transmission Rate	PASS
49.20(3);e	2.3	Transmission Burst Length	PASS
49.20(3);f	9.2	Antenna Power	PASS
49.20(3);g	2.3	Equivalent Isotropic Radiated Power	PASS
49.20(3);h	-	Number of Carriers	PASS
49.20(3);i	-	Spreading Factor	PASS
49.20(3);j	9.6	Out-Band Leakage Power	PASS
49.20(3);j	9.7	Adjacent Channel Leakage Power	PASS
49.20(3);k	-	Comply with The Technical Conditions	PASS

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Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-3	Model	PIXI-9377	Test Date	2018/7/16
	Type of Emission	GID/D1D	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan, R.O.C.
	Modulation Type	OFDM	Antenna Power	0.1[mW/MHz]	Temp. / Humid.	25℃ / 46%
	Frequency	5470 ~ 5725 MHz (80MHz separation 2CH)			Test Conducted By	Dally.Hong
					Name	Dally.Hong
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage		V		Normal Voltage (5V)		Normal Voltage (5V)		Normal Voltage (5V)		Remarks	
	Antenna		Antenna 1		Antenna 2		Antenna 1+Antenna 2					
	Test Frequency		MHz	5530	5610		5530	5610		5530	5610	
	Measured Frequency		MHz	5530.00362	5610.00289							
	Frequency Error		ppm	0.65	0.52							±20 ppm within
	Occupied Bandwidth		MHz	74.81	74.81							78 MHz or below
	Adjacent Channel Leakage Power		-80MHz	dB	32.91	31.34						Limit ≥ 25dB (78MHz)
			+80MHz	dB	31.82	31.72						Limit ≥ 25dB (78MHz)
	W56 Unwanted Emission Intensity		※1	μW/MHz	0.01358	0.01439						0.25 uW/MHz or below
			※2	μW/MHz	0.35481	0.35481						2.5 uW/MHz or below
			※3	μW/MHz	1.29122	1.20781						2.5 uW/MHz or below
	Test Frequency		MHz	5530	5610		5530	5610		5530	5610	
	W56 Spurious Emission Intensity		※1	μW/MHz	2.44343	1.48252						12.5 uW/MHz or below
			※2	μW/MHz	4.46684	1.89671						50 uW/MHz or below
			※3	μW/MHz	4.06443	1.69044						51.2 uW/MHz or below
			※4	μW/MHz	1.21339	1.38357						12.5 uW/MHz or below
	Test Frequency		MHz	5530	5610		5530	5610		5530	5610	
	EIRP Power		mW/MHz	0.35810	0.27733							For 80M, Antenna power ≤ 2.5 mW/MHz & EIRP power ≤ 12.5 mW/MHz
	Antenna Power (Conductive)		mW/MHz	0.08995	0.06966							For W56-80M, EIRP ≤ 6.25mW/MHz, w/o TPC function
	Antenna Power Error		mW/MHz	-0.01005	-0.03034							
%			-10.05	-30.34							+ 50 , - 50 % within	
Test Frequency		MHz	5530	5610		5530	5610		5530	5610		
Limitation of Collateral Emission of Receiver		※1	nW/100KHz	0.01648	0.01910						4 nW or below	
		※2	nW/MHz	1.06170	1.10662						20 nW or below	
		ID Code	MAC Address (6147AA103102)									
Carrier Sense		Frequency	MHz	5530	5610		5530	5610				
		Mini Gain	dB	3.7	3.7							
		Level	dBm	-48.36	-48.49							
		Result	Pass/Fail	Pass	Pass						Pin = 22.79+Gr-20*log(freq_MHz) [dBm]	

3 EUT DESCRIPTION

Product	WiFi+Bluetooth 4.1(HS) System on Module
Trade Name	TechNexion
Model Number	PIXI-9377
Power Supply	Power from host device. (DC 5V)
Model Discrepancy	N/A
Frequency Range	IEEE 802.11a (W52 / CH36~48): 5180~5240MHz IEEE 802.11a (W53 / CH52~64): 5260~5320MHz IEEE 802.11a (W56 / CH100~140):5500~5700MHZ IEEE 802.11n HT20 (W52 / CH36~48): 5180~5240MHz IEEE 802.11n HT20(W53 / CH52~64): 5260~5320MHz IEEE 802.11n HT20 (W56 / CH100~140):5500~5700MHZ IEEE 802.11n HT40 (W52 / CH38~46): 5190~5230MHz IEEE 802.11n HT40 (W53 / CH54~62): 5270~5310MHz IEEE 802.11n HT40 (W56 / CH102~134):5510~5670MHZ IEEE 802.11ac VHT 80 (W52 / CH42): 5210MHz IEEE 802.11ac VHT 80 (W53 / CH50 / CH58): 5290MHz IEEE 802.11ac VHT 80 (W56 / CH106 / CH 121):5530MHZ / 5610 MHz

Rated Antenna Power (mW/MHz)	IEEE 802.11a (W52 / CH36~48 & W53 / CH52~64): 1 mW/MHz IEEE 802.11a (W56 / CH100~140): 1 mW/MHz IEEE 802.11n HT20 (W52 / CH36~48 & W53 / CH52~64):0.85 mW/MHz IEEE 802.11n HT20 (W56 / CH100~140): 0.85mW/MHz IEEE 802.11n HT40 (W52 / CH38~46 & W53 / CH54~62): 0.72mW/MHz IEEE 802.11n HT40 (W56 / CH102~134):0.723mW/MHz IEEE 802.11ac VHT 80 (W52 / CH42 & W53 / CH58): 0.1mW/MHz IEEE 802.11ac VHT 80 (W56 / CH106 / CH 122): 0.1 mW/MHz
Measured Antenna Power (mW/MHz)	IEEE 802.11a (W52 / CH36~48 & W53 / CH52~64): 0.9078mW/MHz IEEE 802.11a (W56 / CH100~140): 0.97499 mW/MHz IEEE 802.11n HT20 (W52 / CH36~48 & W53 / CH52~64): 0.7798 mW/MHz IEEE 802.11n HT20 (W56 / CH100~140): 0.83368 mW/MHz IEEE 802.11n HT40 (W52 / CH38~46 & W53 / CH54~62):0.8492 mW/MHz IEEE 802.11n HT40 (W56 / CH102~134): 0.98175 mW/MHz IEEE 802.11ac VHT 80 (W52 / CH42 & W53 / CH58): 0.1012 mW/MHz IEEE 802.11ac VHT 80 (W56 / CH106 / CH 122): 0.08995mW/MHz
Modulation Technique	IEEE 802.11a: OFDM (QPSK, BPSK, 16-QAM, 64-QAM) IEEE 802.11n: OFDM (QPSK, BPSK, 16-QAM, 64-QAM) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Number of Channels	IEEE 802.11a (W52 / CH36~48): 4 channels IEEE 802.11a (W53 / CH52~64): 4 channels IEEE 802.11a (W56 / CH100~140):11 channels IEEE 802.11nHT20 (W52 / CH36~48): 4 channels IEEE 802.11nHT20 (W53 / CH52~64): 4 channels IEEE 802.11nHT20 (W56 / CH100~140):11 channels IEEE 802.11nHT40 (W52 / CH38~46): 2 channels IEEE 802.11nHT40 (W53 / CH54~62): 2 channels IEEE 802.11nHT40 (W56 / CH102~134):5 channels IEEE 802.11ac VHT 80 (W52 / CH42): 1 channels IEEE 802.11ac VHT 80 (W53 / CH50 / CH58): 2 channels IEEE 802.11ac VHT 80 (W56 / CH106 / CH 121): 2 channels
Antenna Specification	FPC Antenna: Gain: 3dBi Dipole Antenna: Gain: 6dBi
Hardware Version	A1
Software Version	1.0

Remark: for more details, please refer to the User's manual of the EUT.

4 TEST METHODOLOGY & CONDITIONS

4.1 TEST CONDITIONS

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	5	5.5	4.5
Output DC Power	3.31	3.31	3.3
Voltage Variation (%)	-	0.000000	-0.302115

Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

4.2 DESCRIPTION OF TEST MODES

The EUT (model: PIXI-9377) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

The worst case data rate is determined as the data rate with highest output power.

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations

Conformity Certification etc. of Specified Radio Equipment in Annex 1,

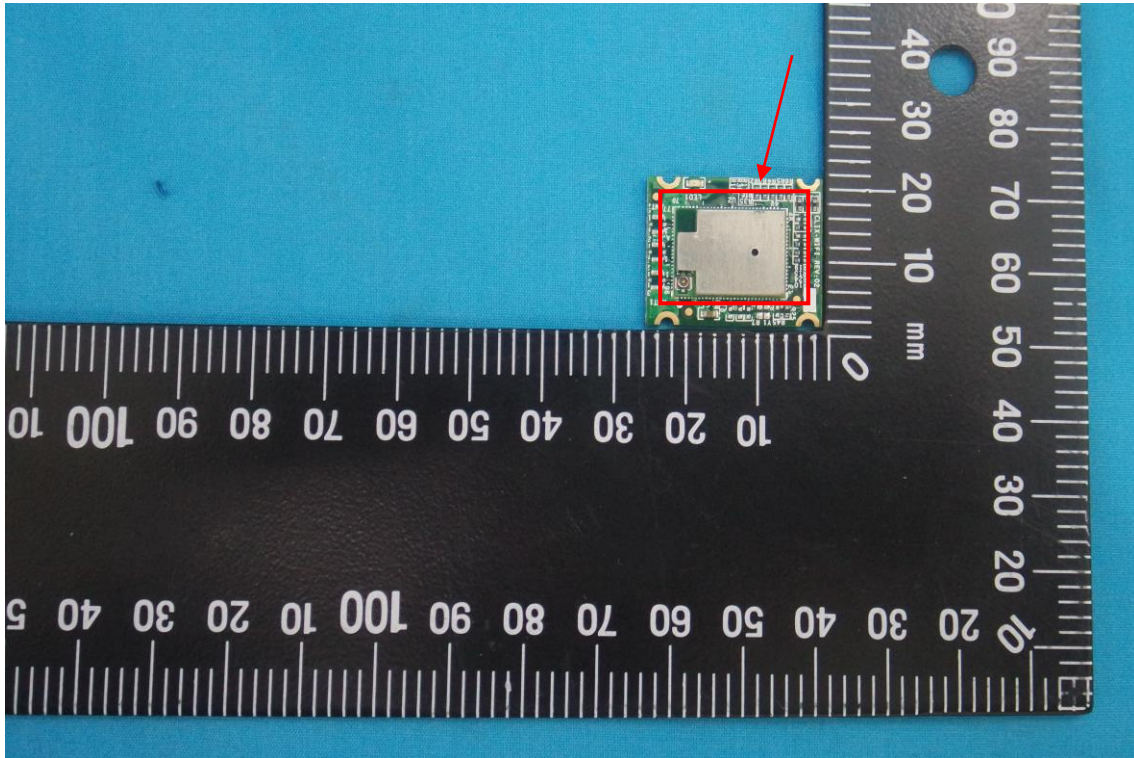
the Ministry of Internal Affairs and Communication notification in

Annex "43" & "44" of Article 88, Paragraph 1 or the test method more than equivalent.

Output power=Power Meter + System Factor - Equivalent Noise Bandwidth Factor + Duty Factor.

4.3 RF SHIELDING METHOD

The RF part is not easily accessible because the EUT is using a shielding case as below.



4.4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

No	Equipment	Trade Name	Model	Serial No.	FCC ID	Data Cable	Power Cord
	N/A						

5 INSTRUMENT AND CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due	Calibration Lab.	Accreditation Organization of the Cal. Lab
Cable	HUBER SUHNER	SUCOFL EX 104PEA	25157	07/31/2017	07/30/2018	ETC	TAF
Directional Couplers	Agilent	87301D	MY443502 52	07/25/2017	07/24/2018	ETC	TAF
Power Meter	Anritsu	ML2495A	1012009	09/18/2017	09/17/2018	ETC	TAF
Power Seneor	Anritsu	MA2411B	1126148	02/06/2018	02/05/2019	ETC	TAF
S.G.	Agilent	E8257C	US4234038 3	07/06/2018	07/05/2019	ETC	TAF
Signal Analyzer	R&S	FSV 40	101073	10/02/2017	10/01/2018	ETC	TAF
Divider	Solvang Technology	STI08-001 5	008	N.C.R	N.C.R	ETC	TAF

5.3 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) $k = 1,96$ or $k = 2$ (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table: Maximum measurement uncertainty

Parameter	Uncertainty
RF frequency	$\pm 1 \cdot 10^{-5}$
Total RF power conducted	$\pm 1,5$ dB
RF power density, conducted	± 3 dB
Spurious emissions, conducted	± 3 dB
All emissions, radiated	± 6 dB
Humidity	± 5 %
Temperature	$\pm 1^{\circ}\text{C}$
DC and low frequency voltages	$\pm 3\%$

PARAMETER	UNCERTAINTY
Frequency Error	226Hz
Antenna Power	1.906 dB
Spurious Emission	0.182 dB
Occupied Bandwidth	0.178 kHz
Dwell Time	0.054 ms

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5.4 CALIBRATION

(1) Spectrum Analyser and Power Meter

Signal Generator (dBm)	Spectrum Analyser (dBm)	Power Meter (dBm)	Remark
0	-0.81	-0.20	<ul style="list-style-type: none"> • Frequency : 5250MHz • ATT : 30dB • RLV: 20dBm • RBW, VBW : 1MHz • SP: 0Hz
-5	-5.81	-5.39	
-10	-10.75	-10.53	

(2) Spectrum Analyser

Signal Generator (MHz)	Spectrum Analyser (MHz)	Tolerance (Hz)	Remark
5,250.00	2,450.000580	-2,799,999,420	<ul style="list-style-type: none"> • SG: 0dBm • RBW, VBW : 30kHz, SP: 300kHz

1.2 Cable Factor Measurement

Signal Generator (MHz)	Direct Power Meter (dBm)	Cable + Att Power Meter (dBm)	Cable Factor (dB)	Remark
1,000.00	0.21	-10.16	10.37	• SG: 0dBm
2,450.00	-0.20	-10.81	10.61	
5,250.00	-0.51	-11.43	10.92	
12,500.00	-2.64	-13.61	10.97	
26,000.00	-4.92	-18.64	13.72	



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6 TEST RESULT FOR IEEE 802.11a (W52 & W53 & W56)

6.1 FREQUENCY ERROR

TEST RESULT

(W52 & W53)

Antenna 1

	Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
	5180.0000	5180.002890	2890	0.5579	Normal Voltage
	5240.0000	5240.002890	2890	0.5515	
	5320.0000	5320.002890	2890	0.5432	

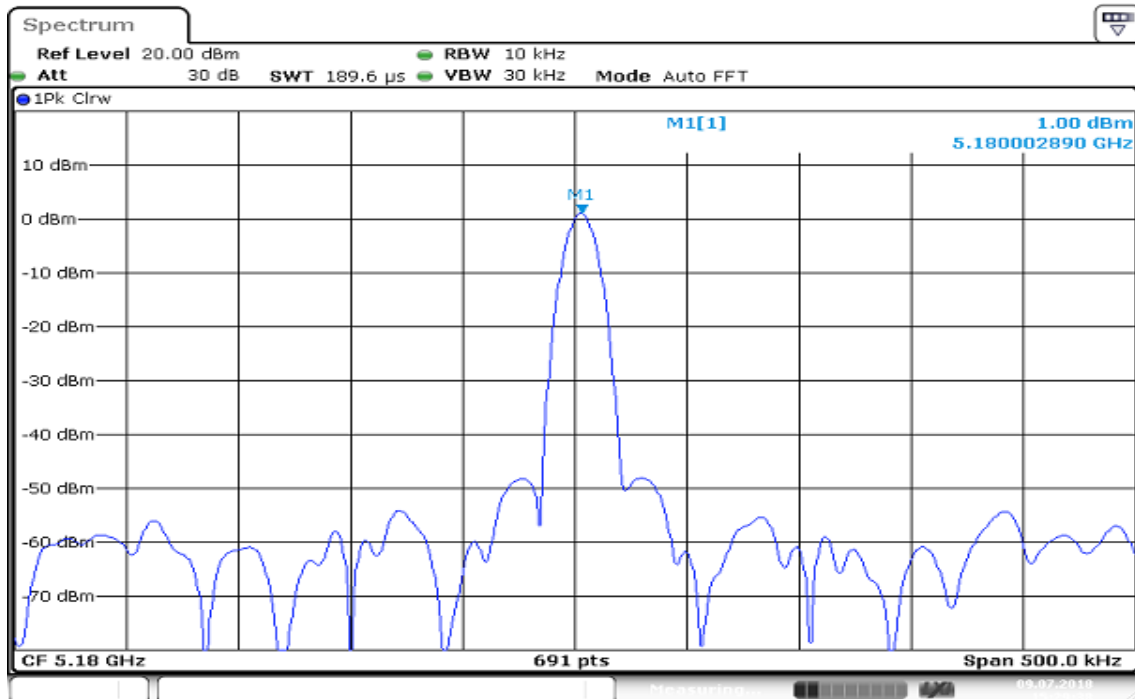
(W56)

Antenna 1

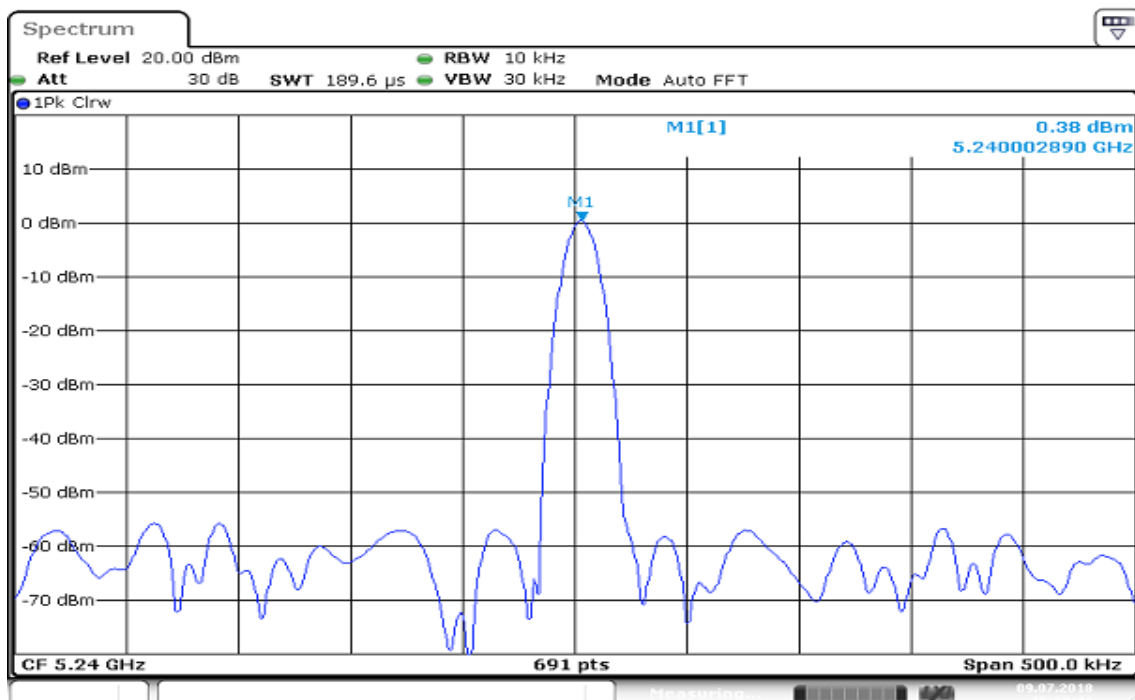
	Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
	5500.0000	5500.003620	3620	0.6582	Normal Voltage
	5600.0000	5600.005790	5790	1.0339	
	5700.0000	5700.005790	5790	1.0158	



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TEST PLOTS**ANT 1 / CH Low(W52 & W53)**

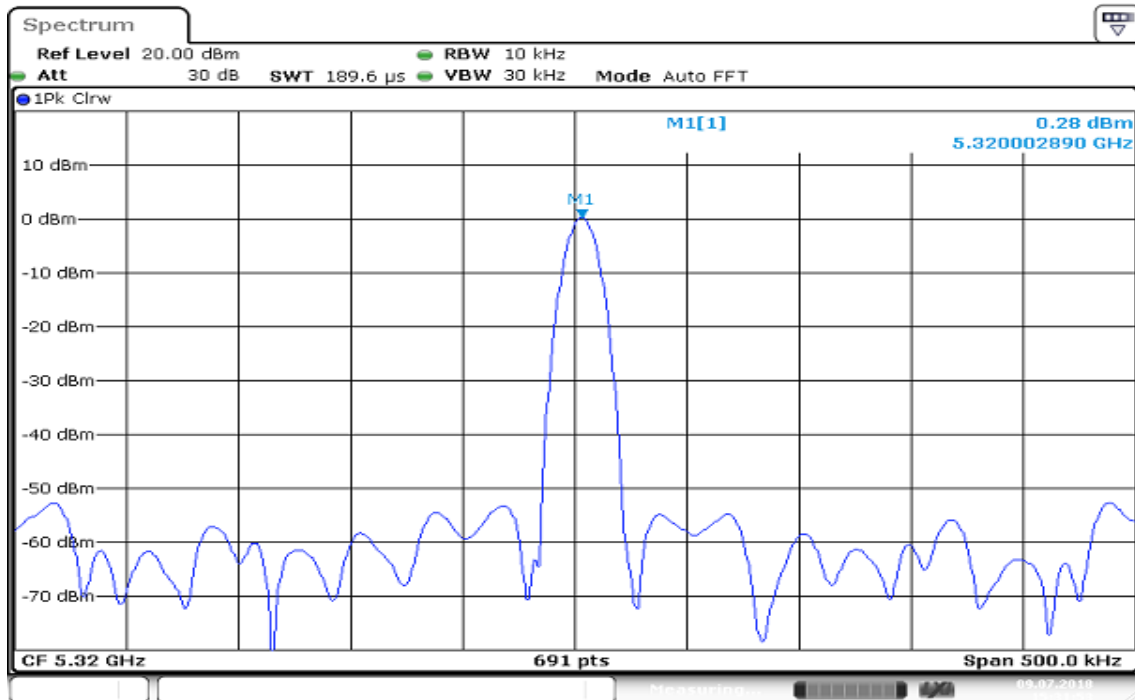
Date: 9 JUL 2018 15:29:39

ANT 1 / CH Mid(W52 & W53)

Date: 9 JUL 2018 15:30:42

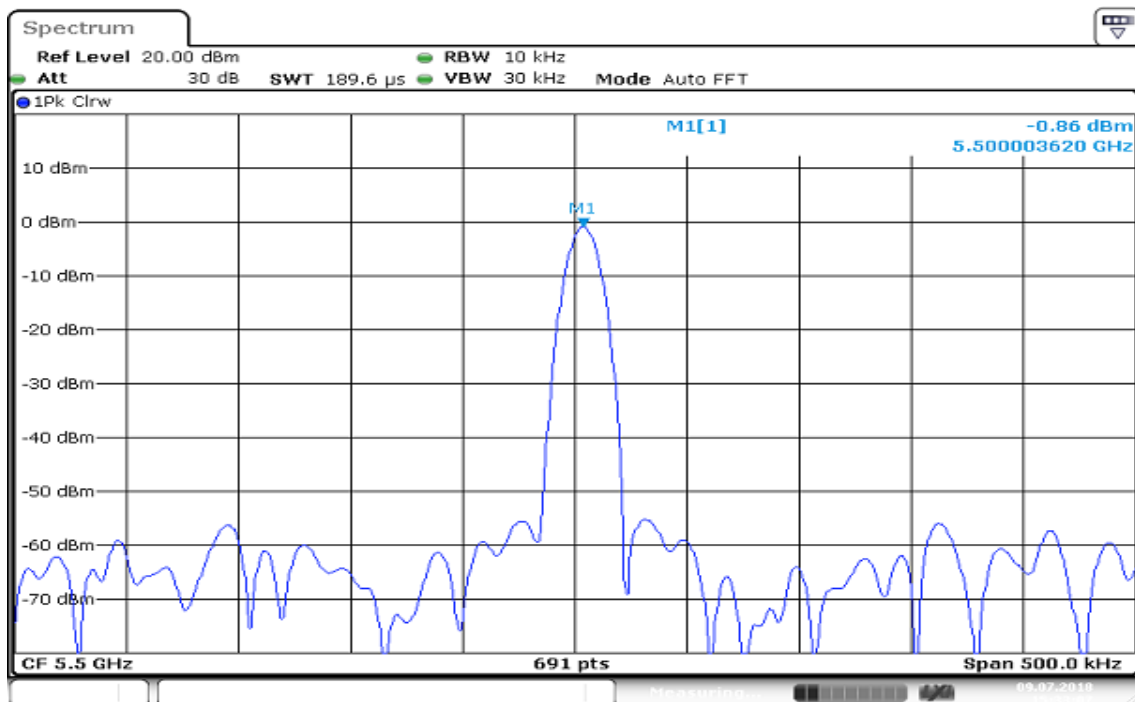
Report No.: T180627D12-RJ3

ANT 1 / CH High(W52 & W53)



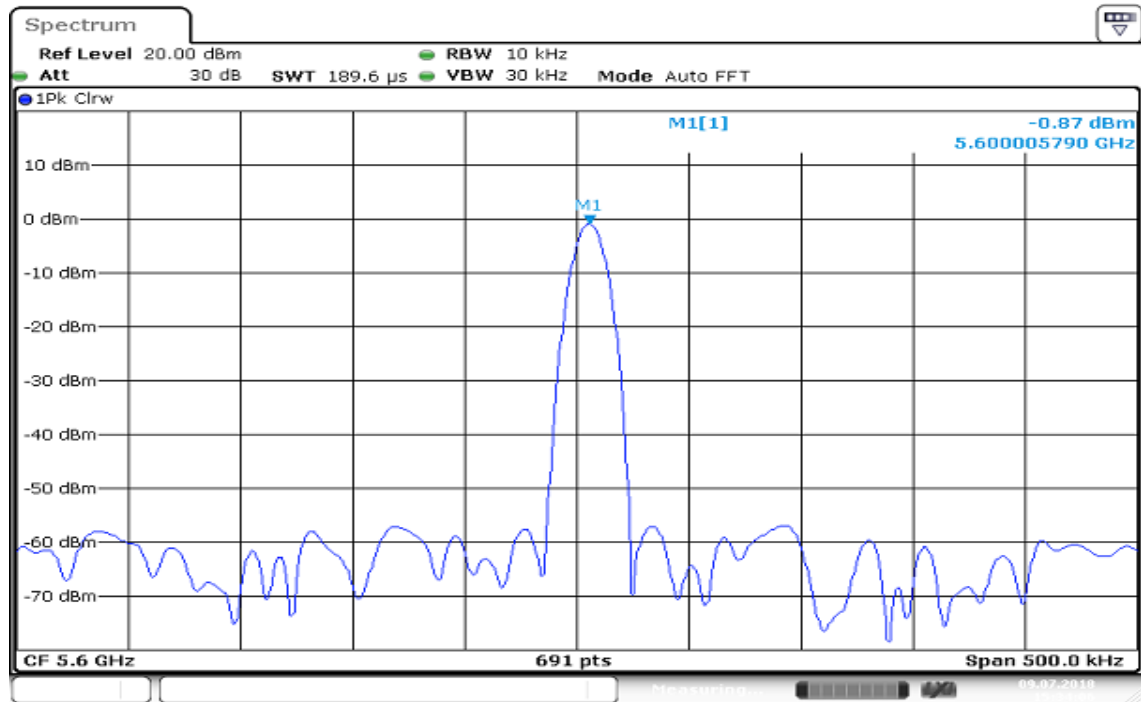
Date: 9 JUL 2018 15:21:53

ANT 1 / CH Low(W56)

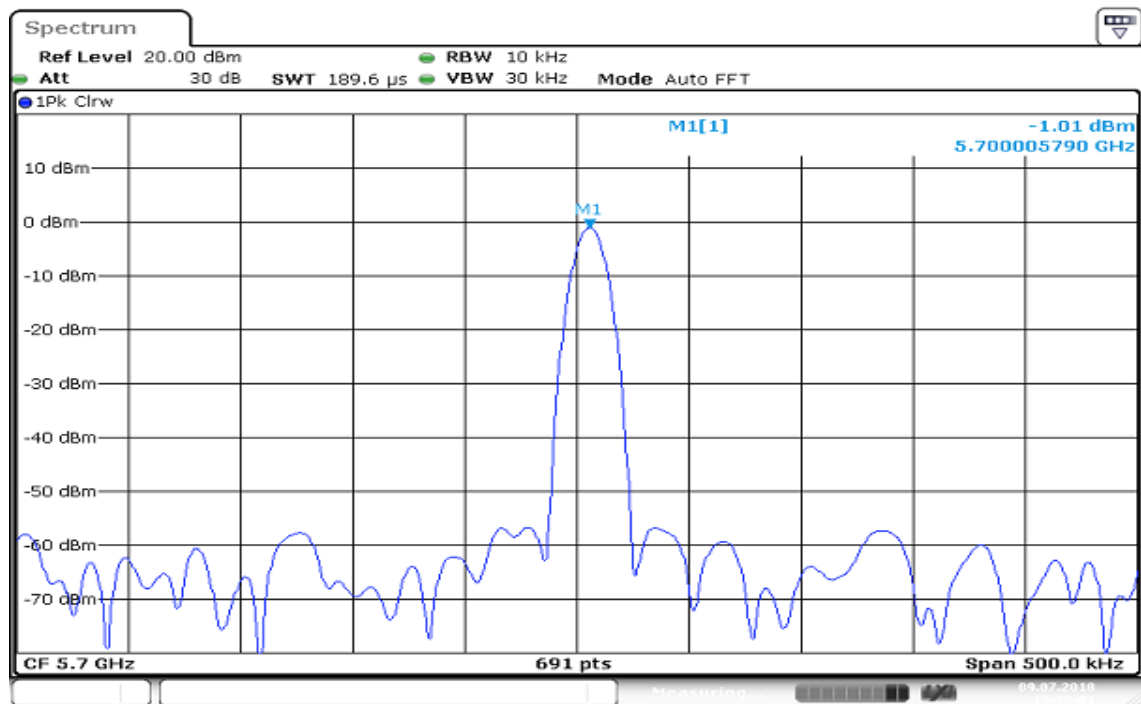


Date: 9 JUL 2018 15:23:08

ANT 1 / CH Mid(W56)



ANT 1 / CH High(W56)





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6.2 ANTENNA POWER

TEST RESULT

(W52 & W53)

Antenna 1  6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5180.0000	-12.86	10.92	-1.94	0.63973	4.06	2.54683	Normal Voltage
5240.0000	-12.26	10.92	-1.34	0.73451	4.66	2.92415	
5320.0000	-11.34	10.92	-0.42	0.90782	5.58	3.61410	

(W56)

Antenna 1  6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5500.0000	-12.60	10.92	-1.68	0.67920	4.32	2.70396	Normal Voltage
5600.0000	-11.77	10.92	-0.85	0.82224	5.15	3.27341	
5700.0000	-11.03	10.92	-0.11	0.97499	5.89	3.88150	

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6.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz ~ 1GHz

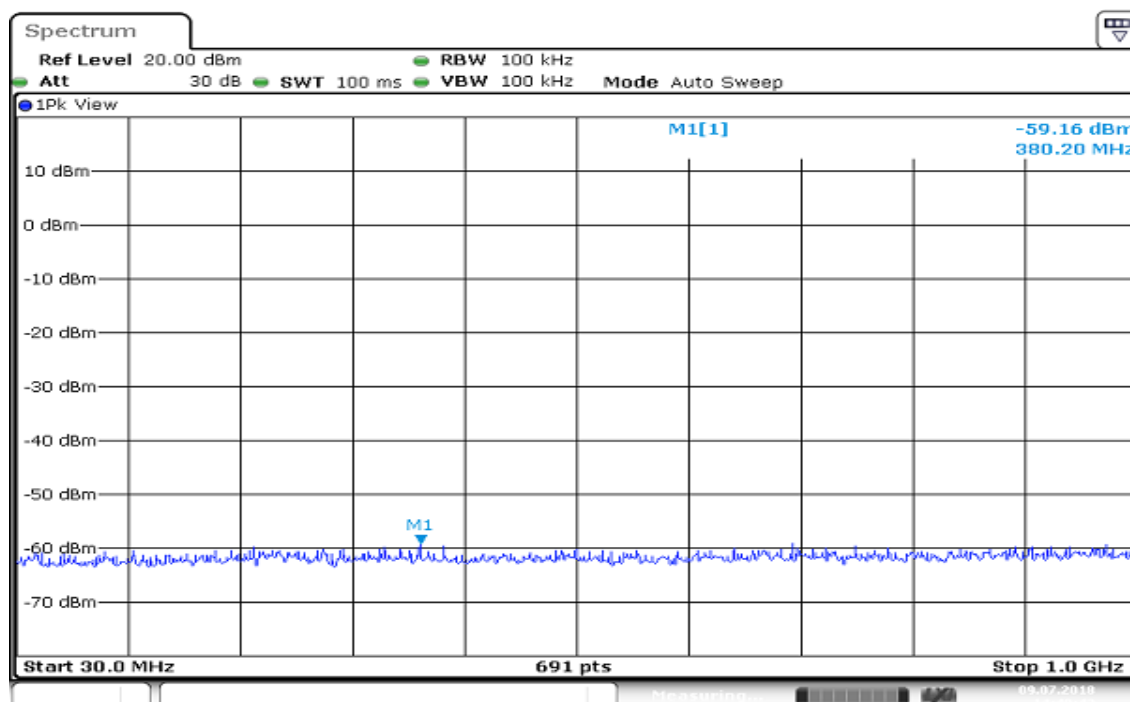
(W52 & W53)

(1) 30MHz~less than 1,000MHz

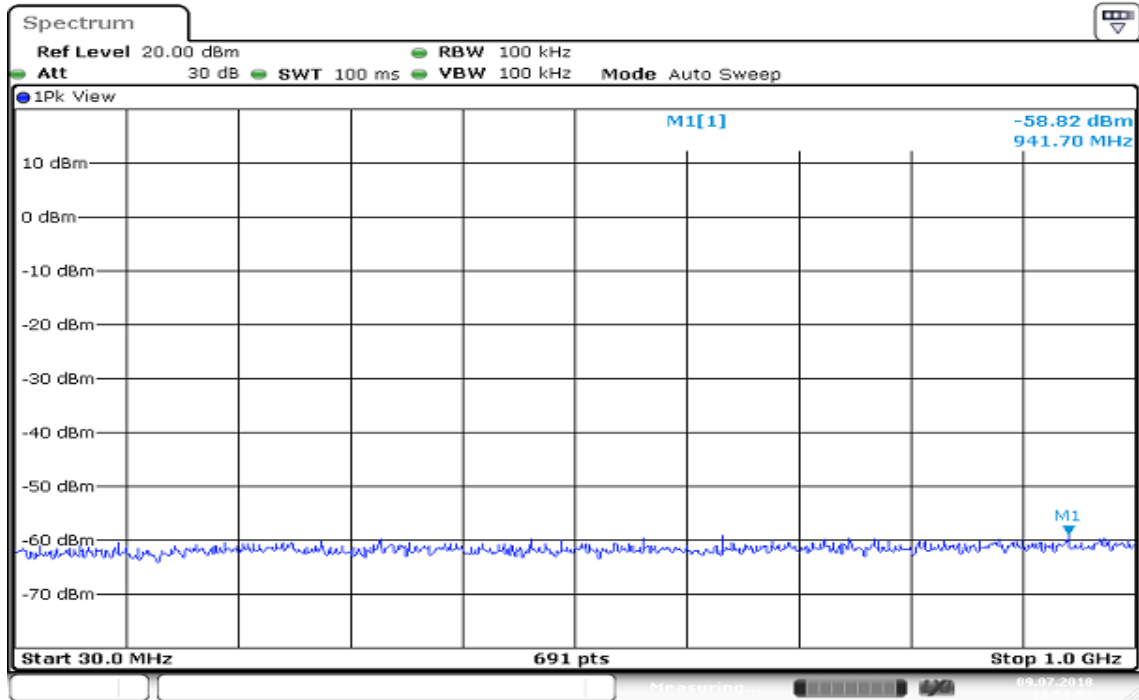
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	380.2000	-59.16	10.37	0.01321	Normal Voltage
5240.0000	941.7000	-58.82	10.37	0.01429	
5320.0000	891.2000	-59.17	10.37	0.01318	

TEST PLOTS

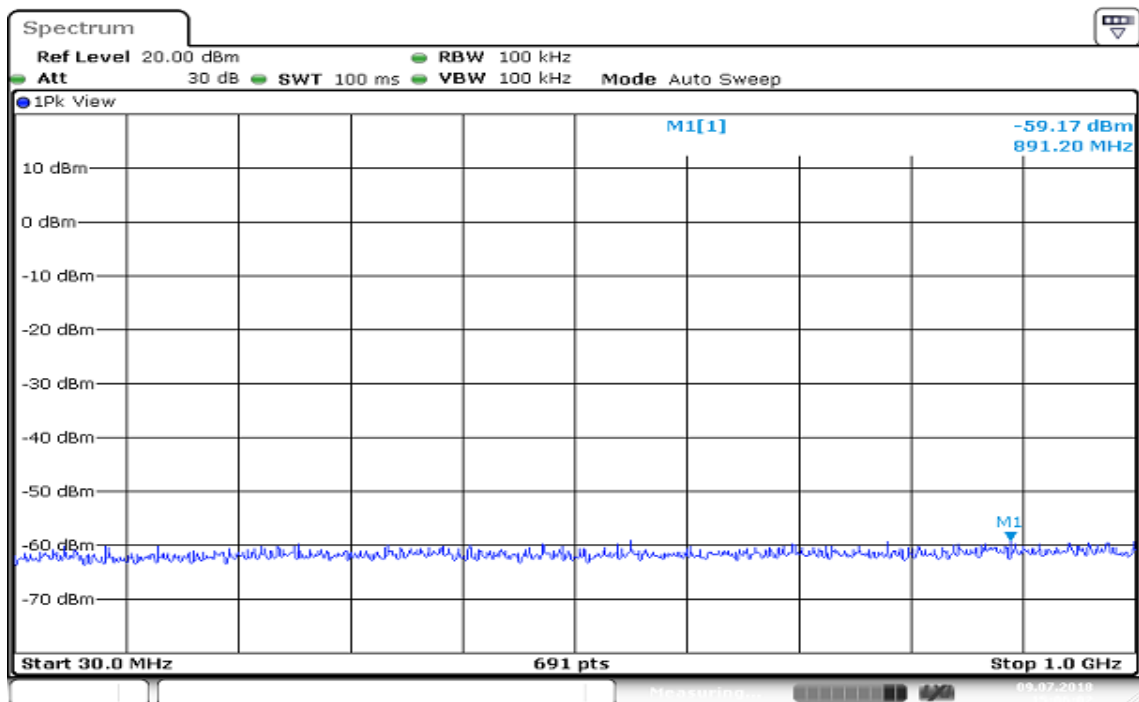
Ant 1 / CH Low(W52 & W53)



Ant 1 / CH Mid(W52 & W53)



Ant 1 / CH High(W52 & W53)



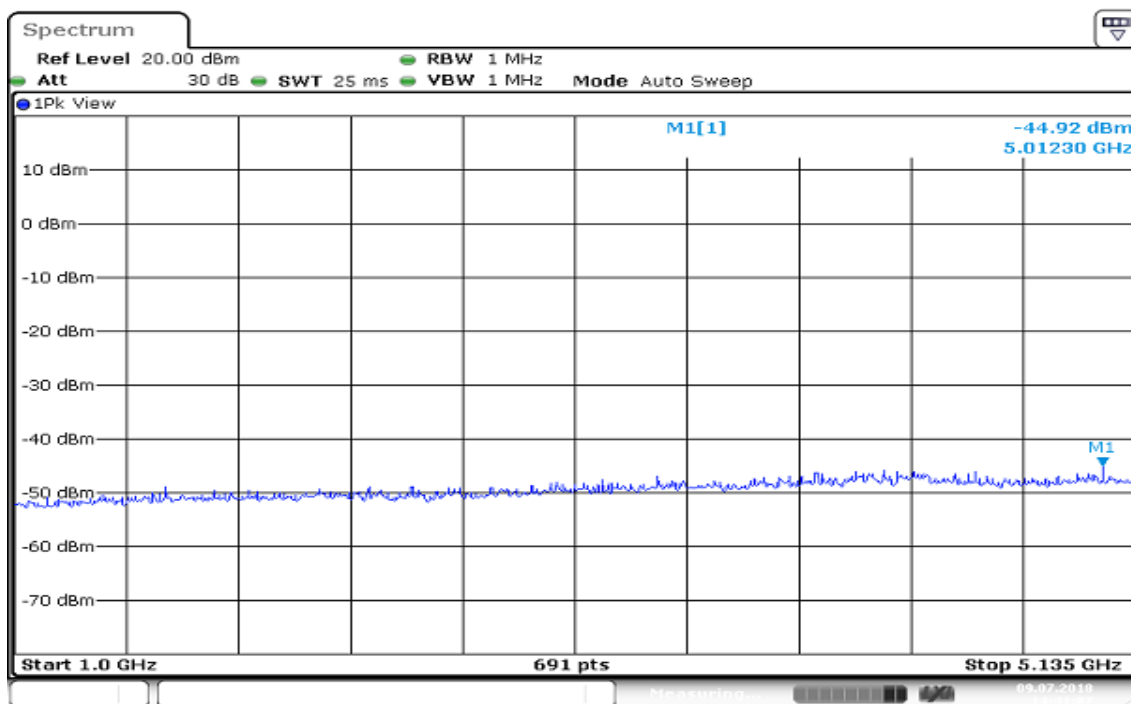


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 5.135GHz****(W52 & W53)**

(2) 1000MHz~less than 5135MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5012.3000	-44.92	10.92	0.39811	Normal Voltage
5240.0000	4910.6000	-44.97	10.92	0.39355	
5320.0000	4300.2000	-44.83	10.92	0.40644	

TEST PLOTS**Ant 1 / CH Low(W52 & W53)**

Date: 9 JUL 2018 14:41:07

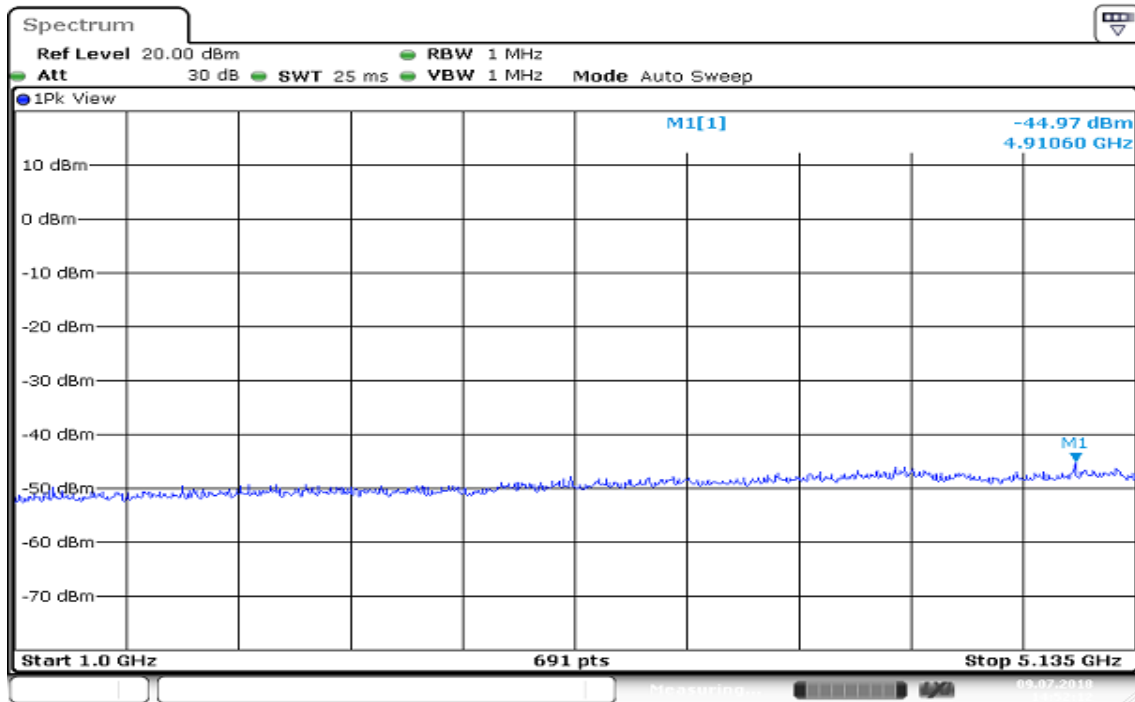


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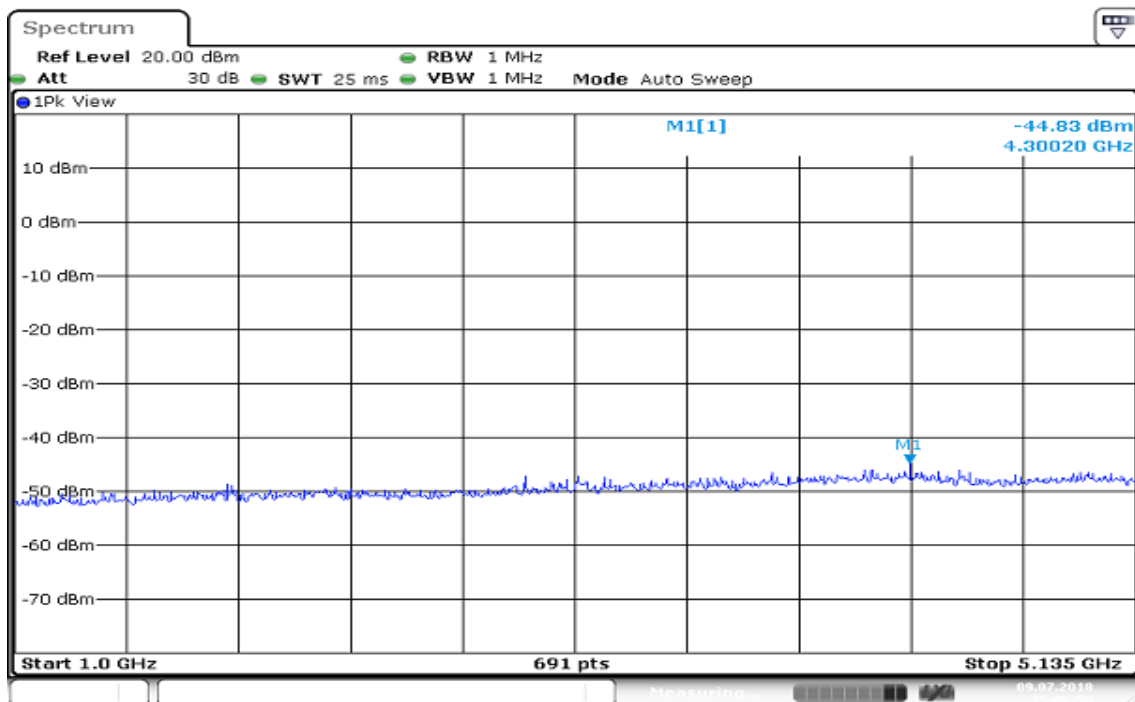
Rev.: 01

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 14:52:13

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 15:06:51

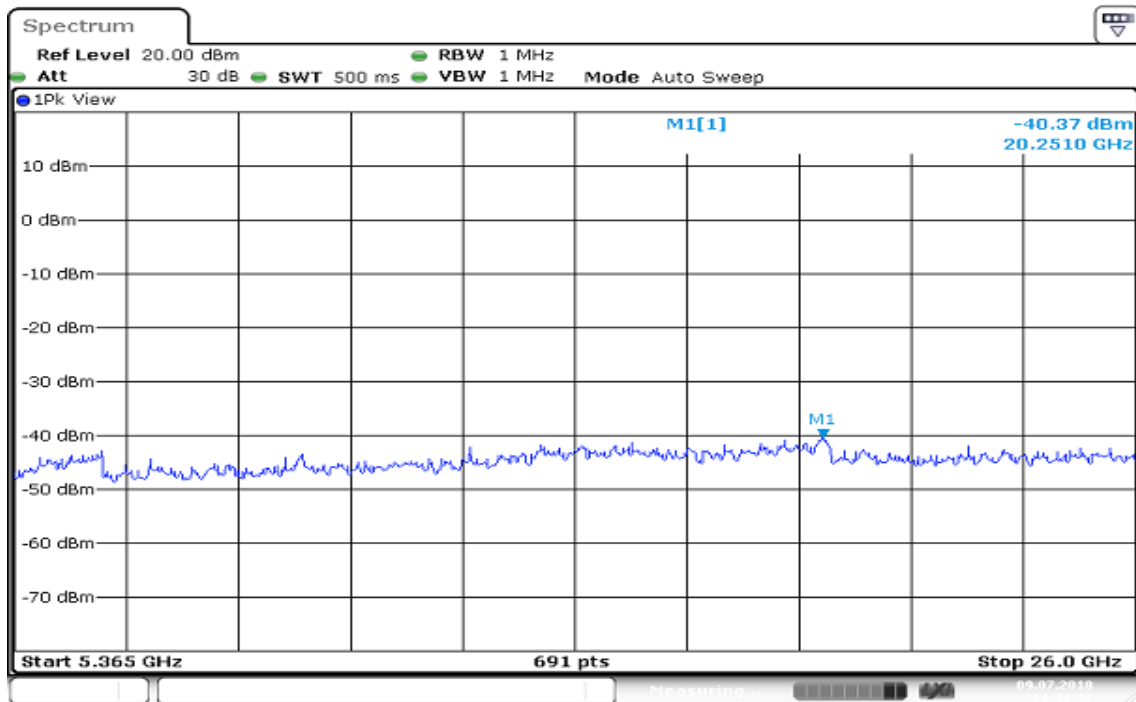


Report No.: T180627D12-RJ3

TEST RESULT**5.365GHz ~ 26GHz****(W52 & W53)**

(3) 5365MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	20251.0000	-40.37	10.92	1.13501	Normal Voltage
5240.0000	20192.0000	-39.64	10.92	1.34276	
5320.0000	20162.0000	-38.93	10.92	1.58125	

TEST PLOTS**Ant 1 / CH Low(W52 & W53)**

Date: 9 JUL 2018 14:41:37

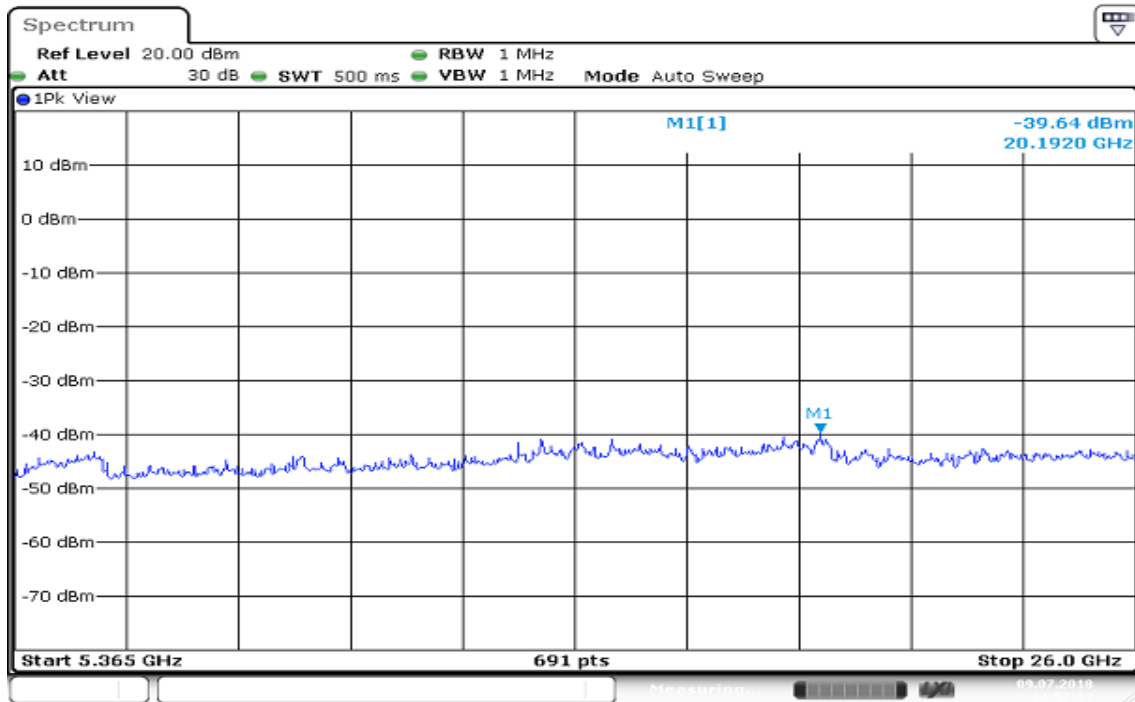


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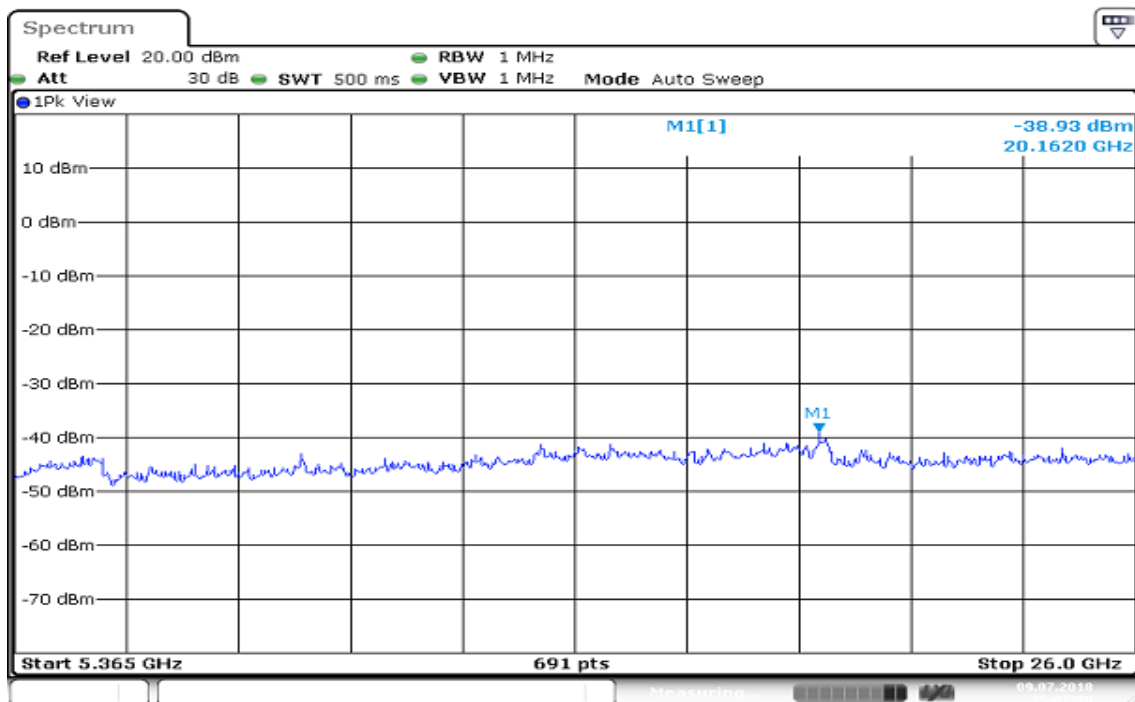
Rev.: 01

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 14:52:33

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 15:07:31

Report No.: T180627D12-RJ3

TEST RESULT

30MHz ~ 1GHz

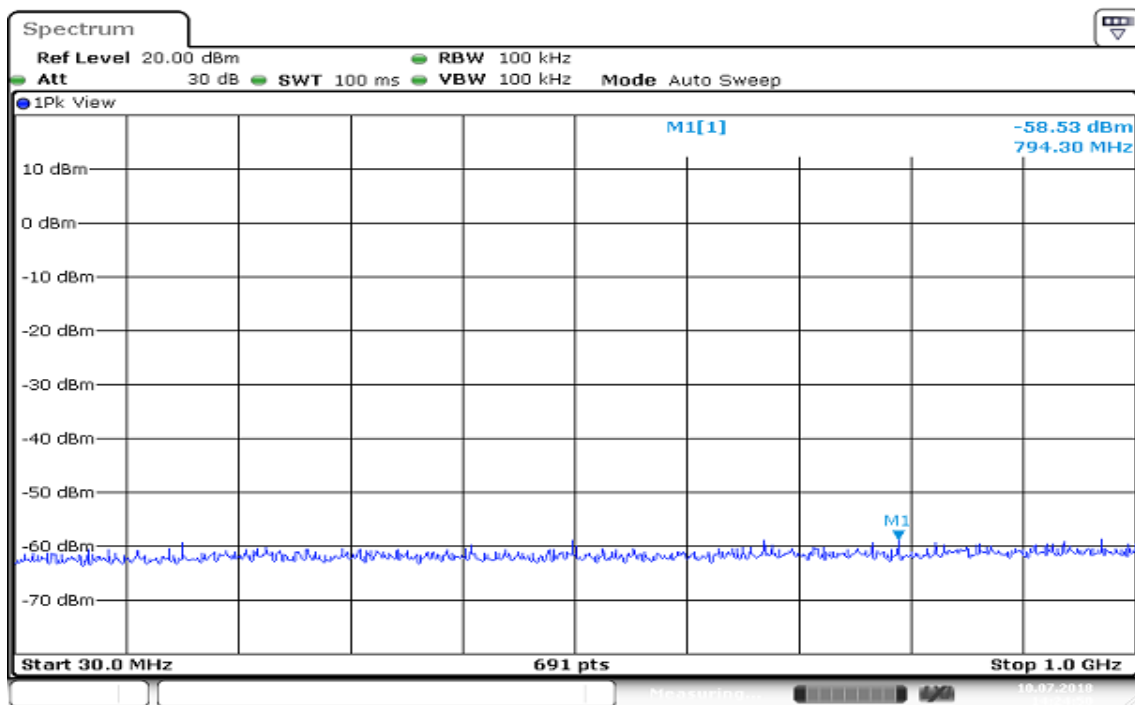
(W56)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5500.0000	794.3000	-58.53	10.37	0.01528	Normal Voltage
5600.0000	100.9000	-59.04	10.37	0.01358	
5700.0000	846.3000	-58.64	10.37	0.01489	

TEST PLOTS

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 14:24:51

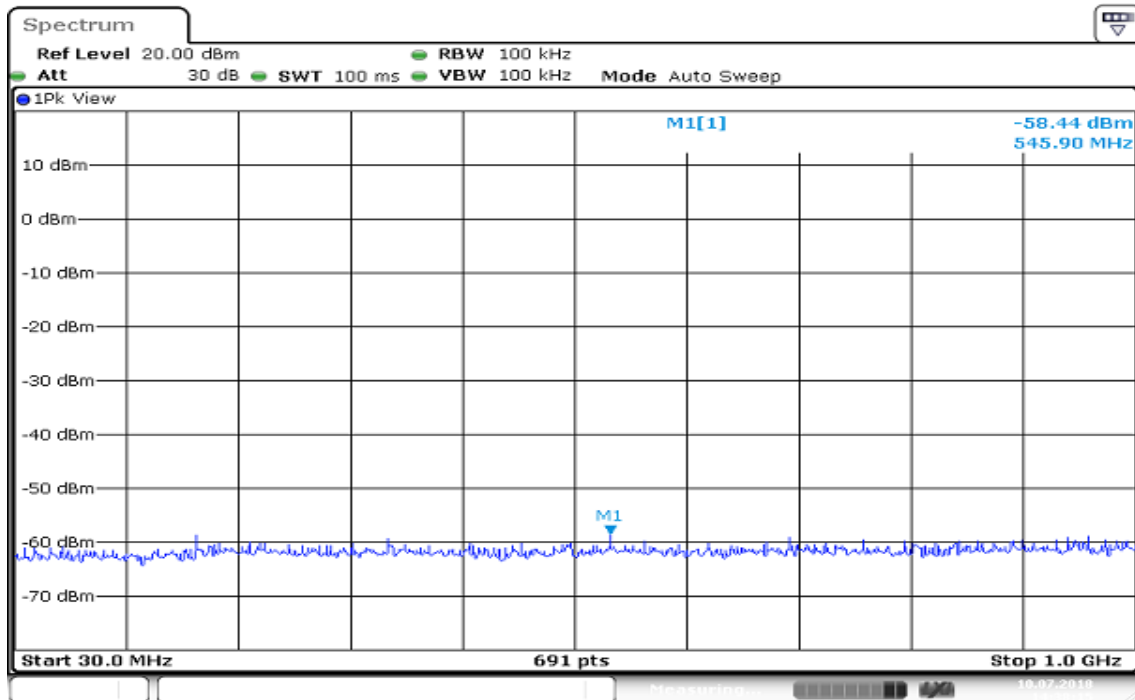


Report No.: T180627D12-RJ3

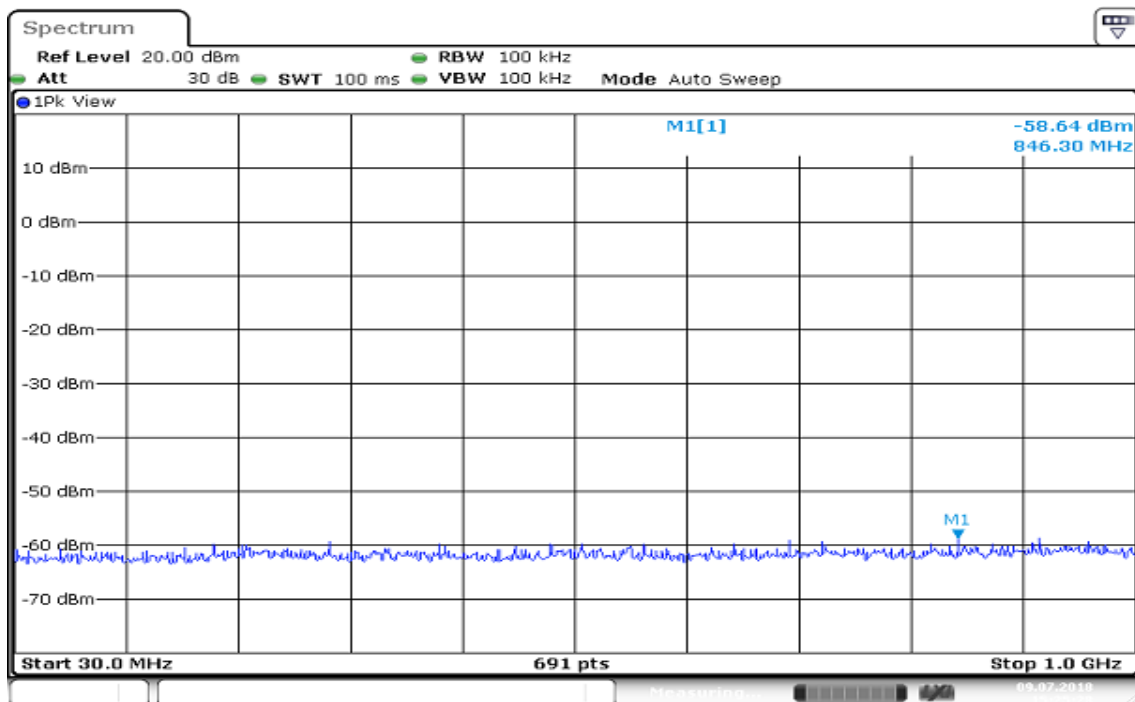
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Rev.: 01

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



Report No.: T180627D12-RJ3

TEST RESULT

1GHz ~ 5.455GHz

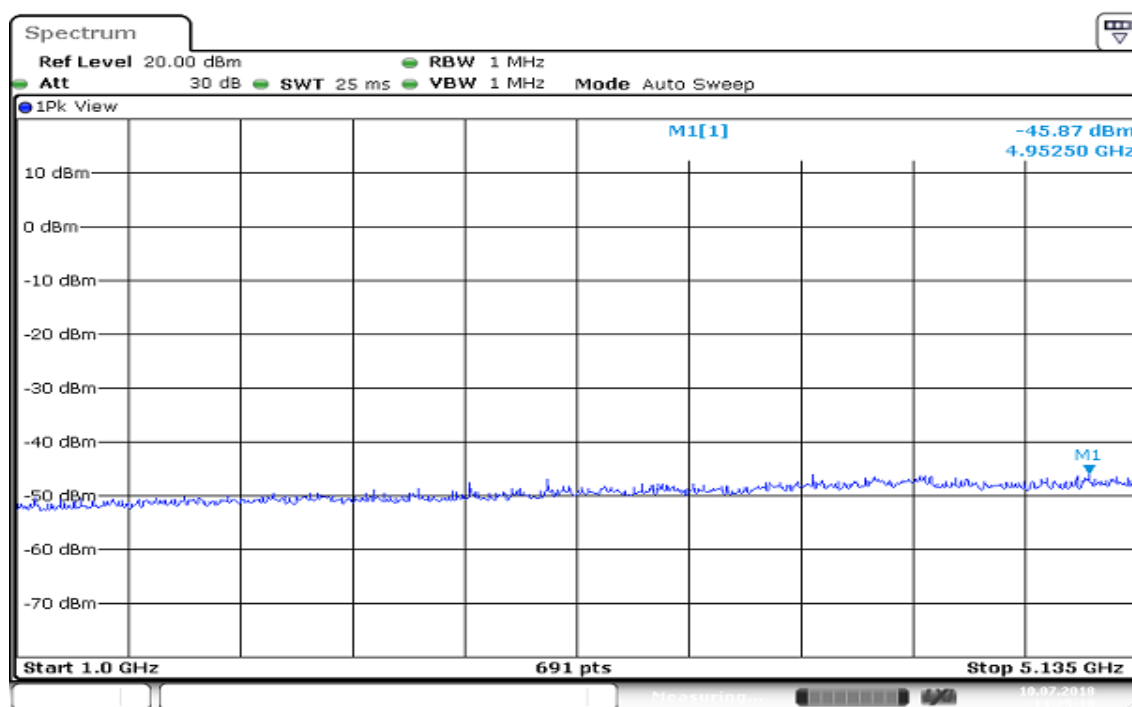
(W56)

(2) 1000MHz~less than 5455MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	4952.5000	-45.87	10.92	0.31989	Normal Voltage
5600.0000	4336.1000	-45.75	10.92	0.32885	
5700.0000	4144.6000	-45.87	10.92	0.31989	

TEST PHOTO

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 14:25:11

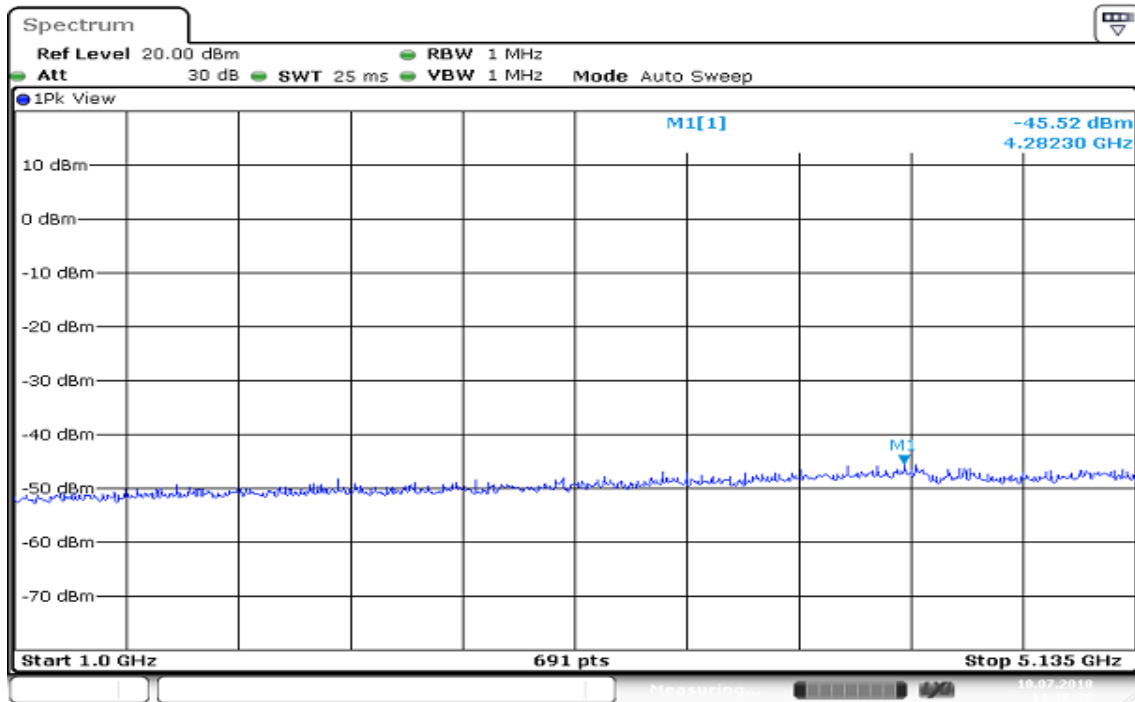


Report No.: T180627D12-RJ3

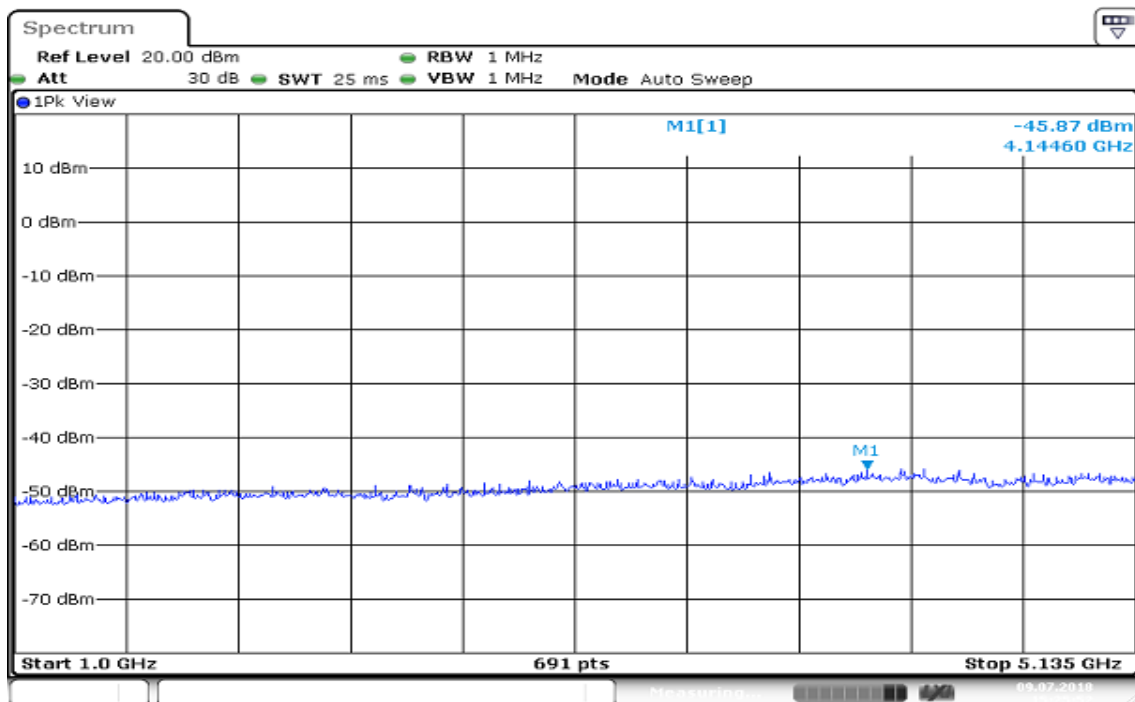
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Rev.: 01

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



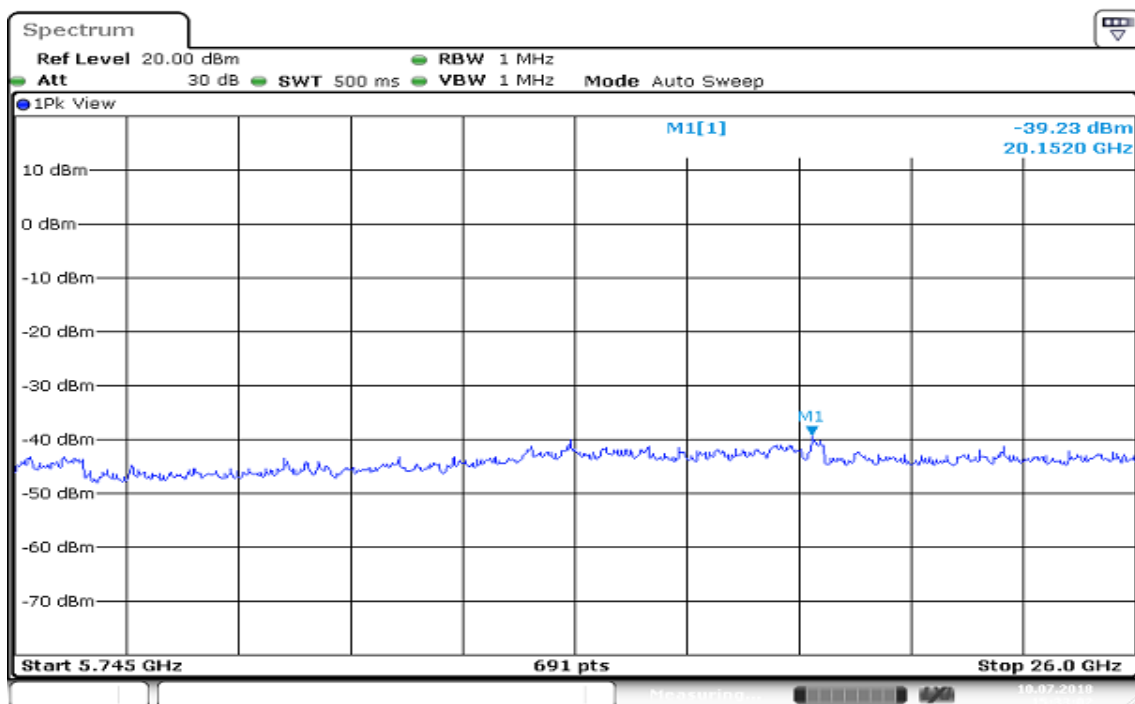


Report No.: T180627D12-RJ3

TEST RESULT**5.745GHz ~ 26GHz****(W56)**

(3) 5745MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5499.0000	-39.23	10.92	1.47571	Normal Voltage
5600.0000	5589.0000	-39.13	10.92	1.51008	
5700.0000	5708.0000	-39.34	10.92	1.43880	

TEST PLOTS**Ant 1 / CH Low(W56)**

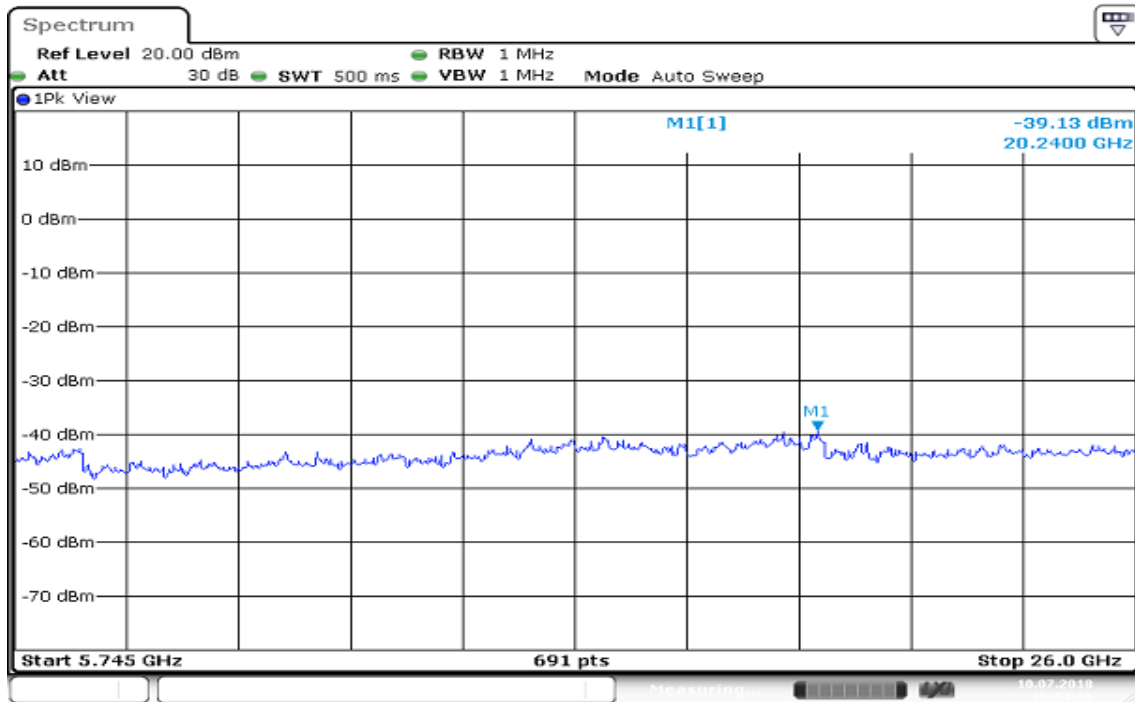


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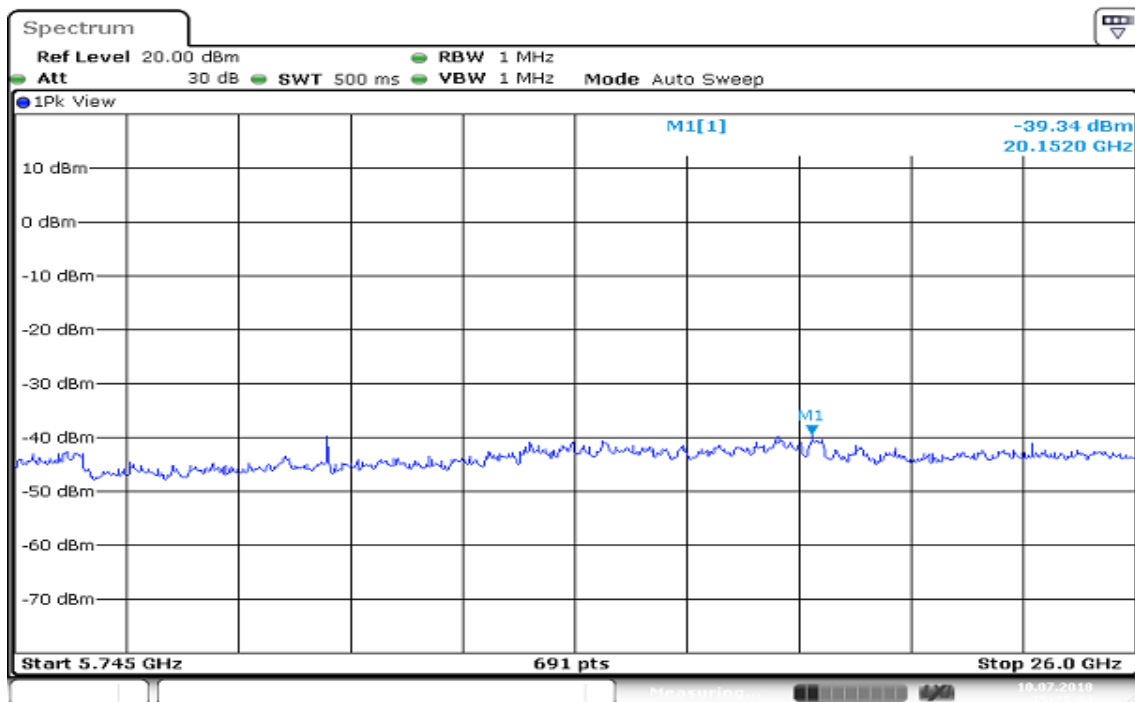
Rev.: 01

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 15:24:36

Ant 1 / CH High(W56)



Date: 10 JUL 2018 15:27:44

Report No.: T180627D12-RJ3

6.4 OCCUPIED BANDWIDTH (99%)

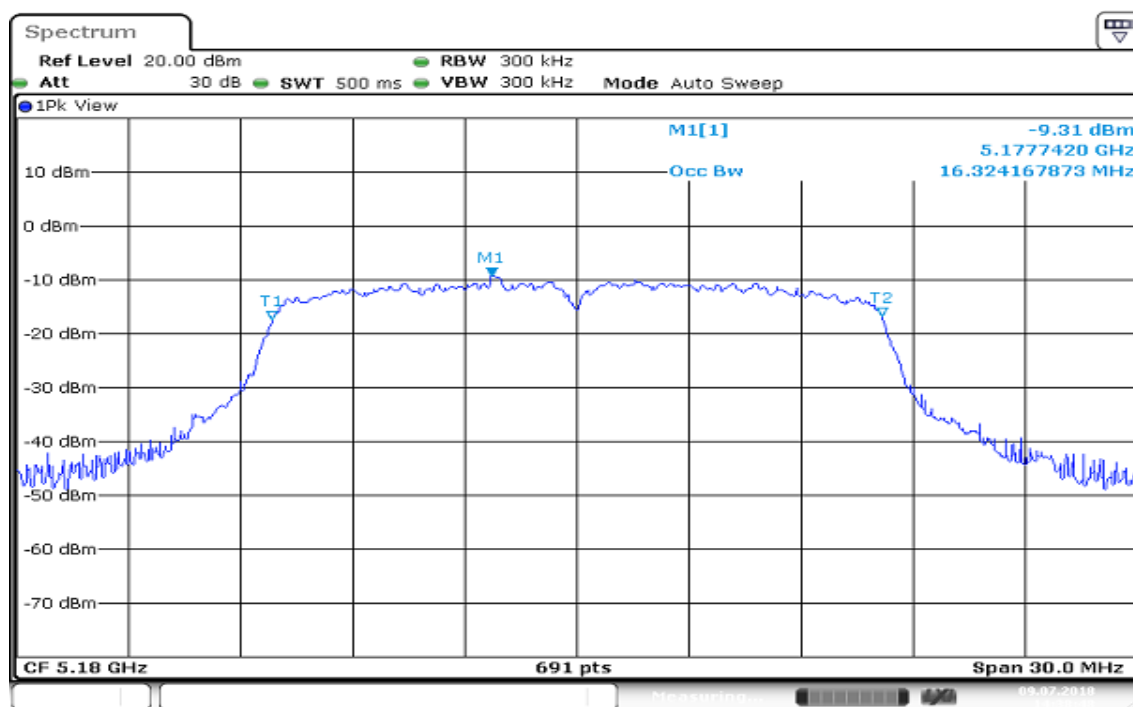
TEST RESULT

(W52 & W53)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5180.0000	5180.00	16.32	Normal Voltage
5240.0000	5240.00	16.32	
5320.0000	5320.00	16.32	

TEST PLOTS

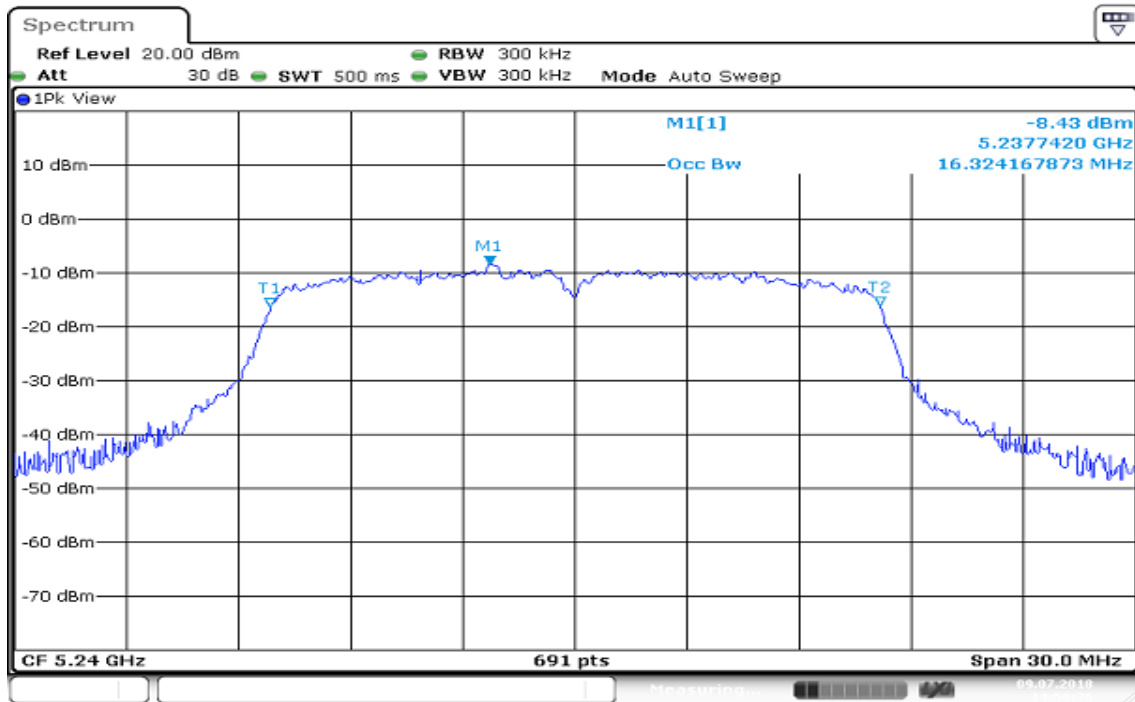
Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 14:38:49

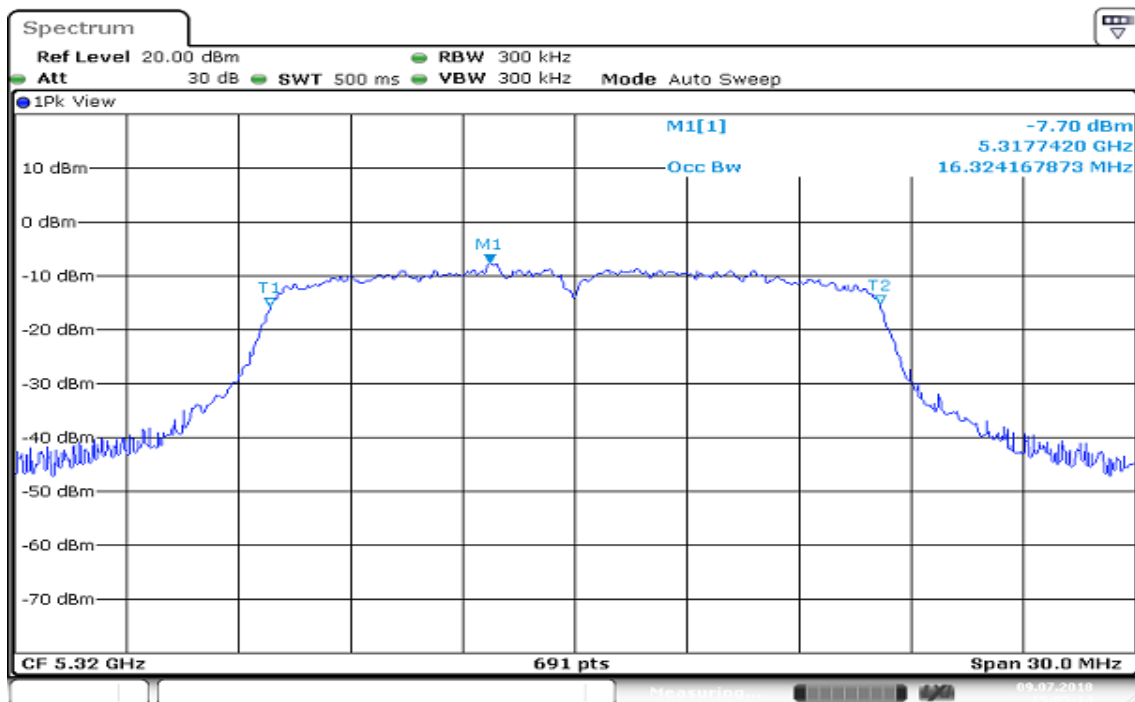
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 14:50:26

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 15:05:15

Report No.: T180627D12-RJ3

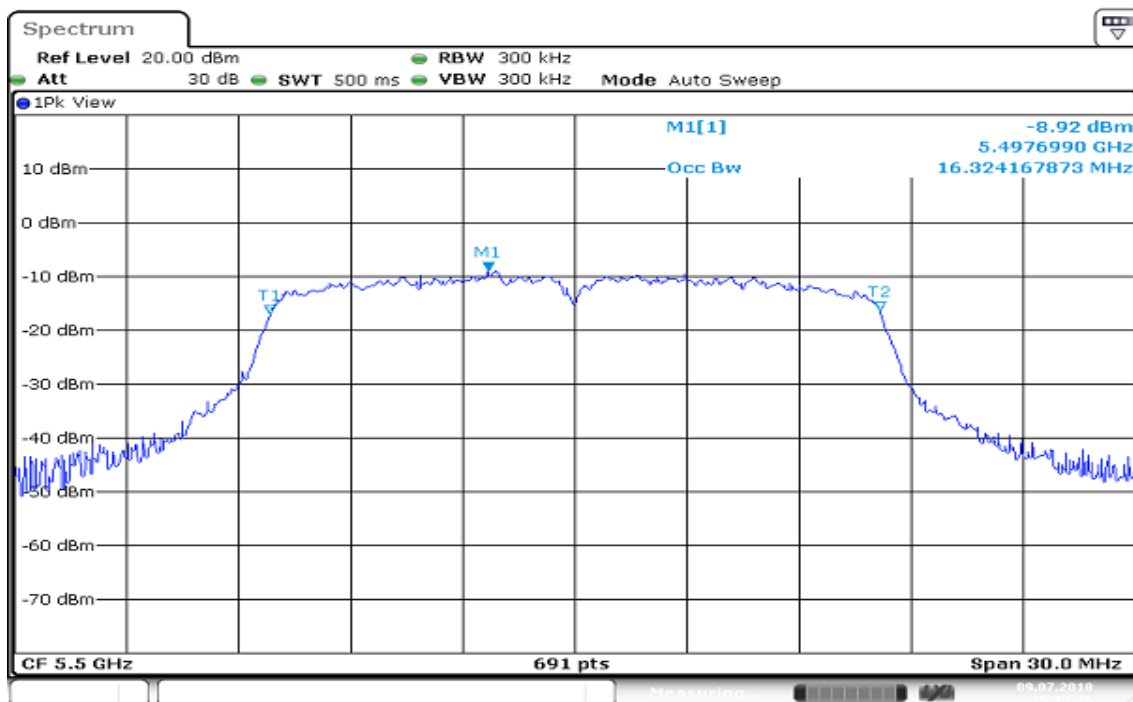
TEST RESULTS

(W56)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5500.0000	5500.00	16.32	Normal Voltage
5600.0000	5600.00	16.32	
5700.0000	5700.00	16.32	

TEST PLOTS

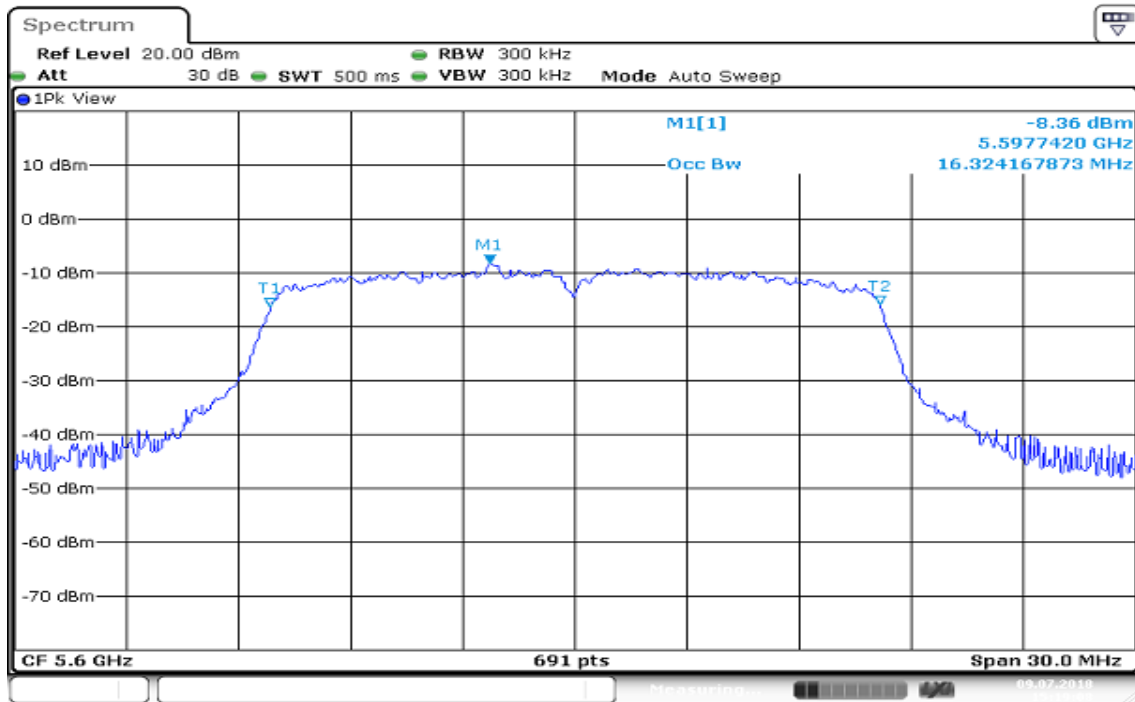
Ant 1 / CH Low(W56)



Date: 9 JUL 2018 15:13:27

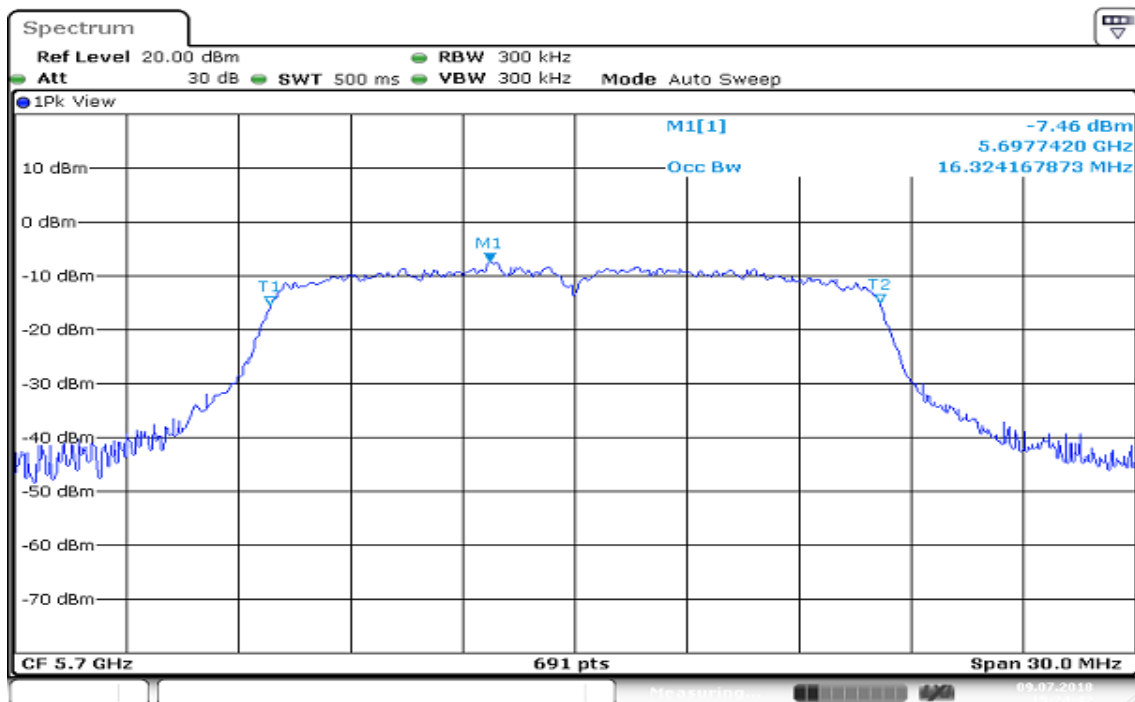
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9.JUL.2018 15:19:08

Ant 1 / CH High(W56)



Date: 9.JUL.2018 15:24:42

Report No.: T180627D12-RJ3

6.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

30MHz ~ 1GHz

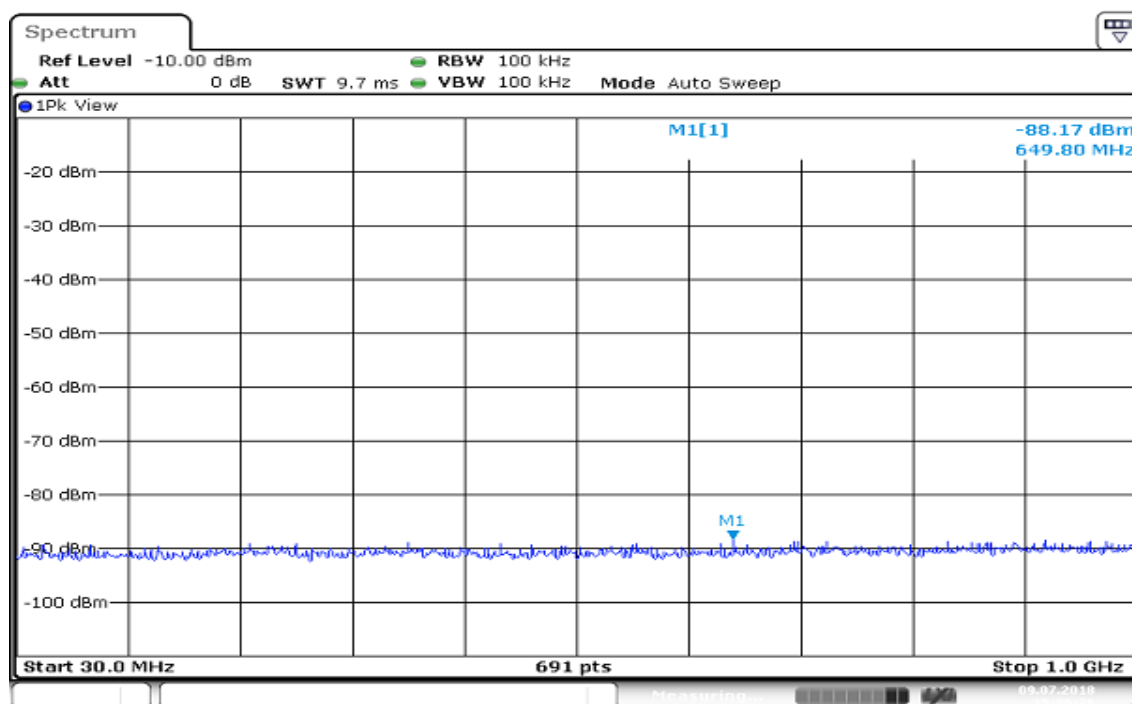
(W52 & W53)

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5180 MHz	649.8000	-88.17	10.37	0.0166	Normal Voltage
5240 MHz	849.1000	-88.60	10.37	0.0150	
5320 MHz	995.1000	-87.30	10.37	0.0203	

TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 15:26:37

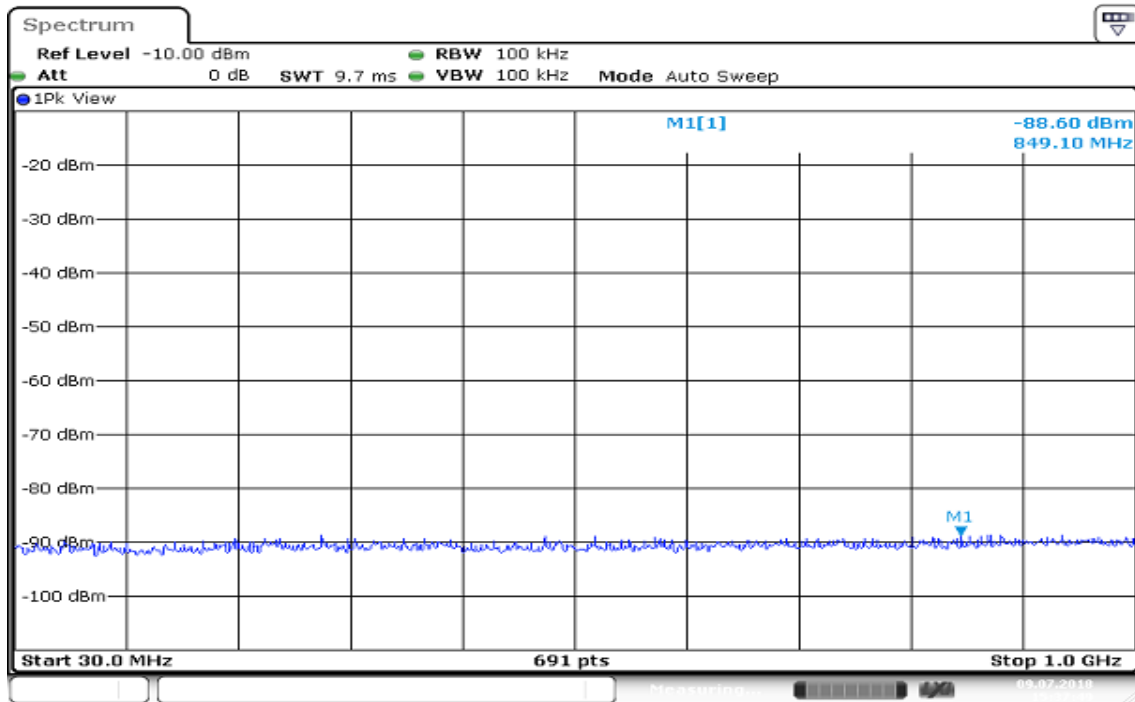


Report No.: T180627D12-RJ3

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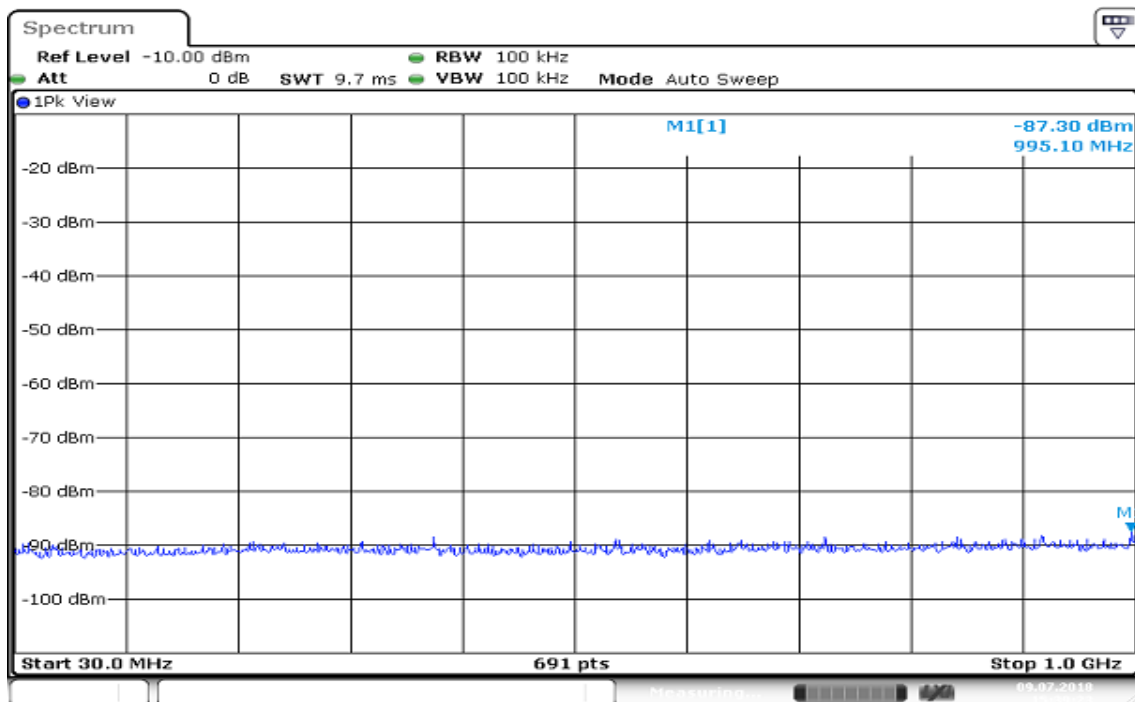
Rev.: 01

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 15:27:50

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 15:29:24

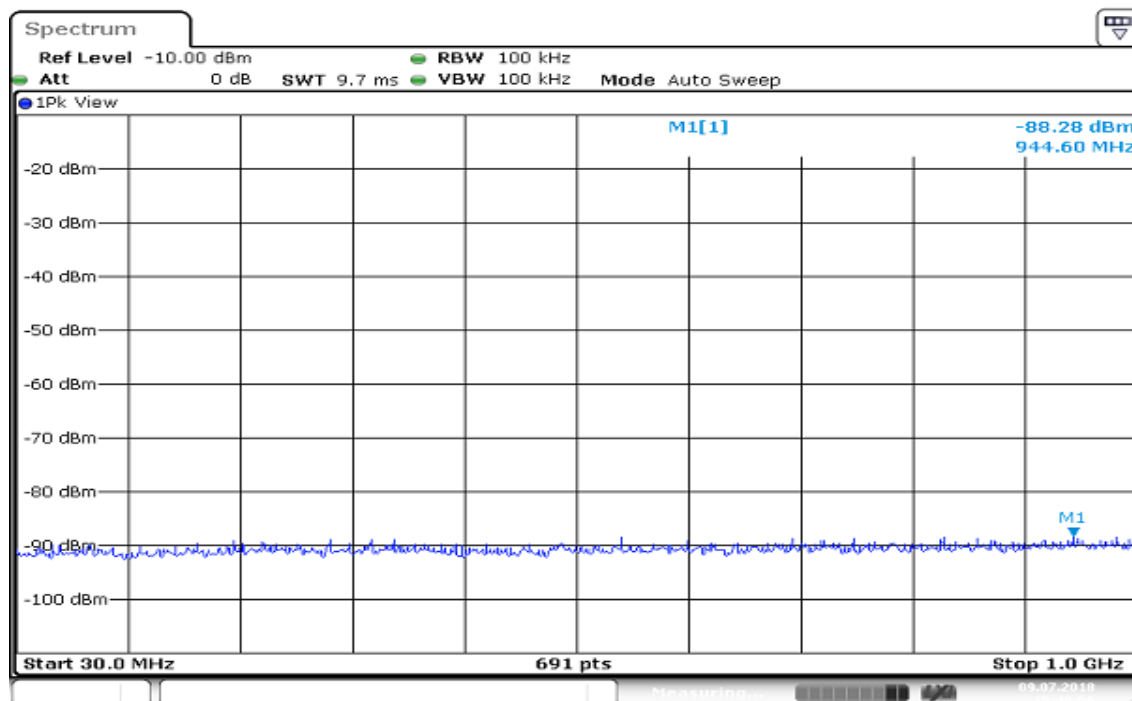


Report No.: T180627D12-RJ3

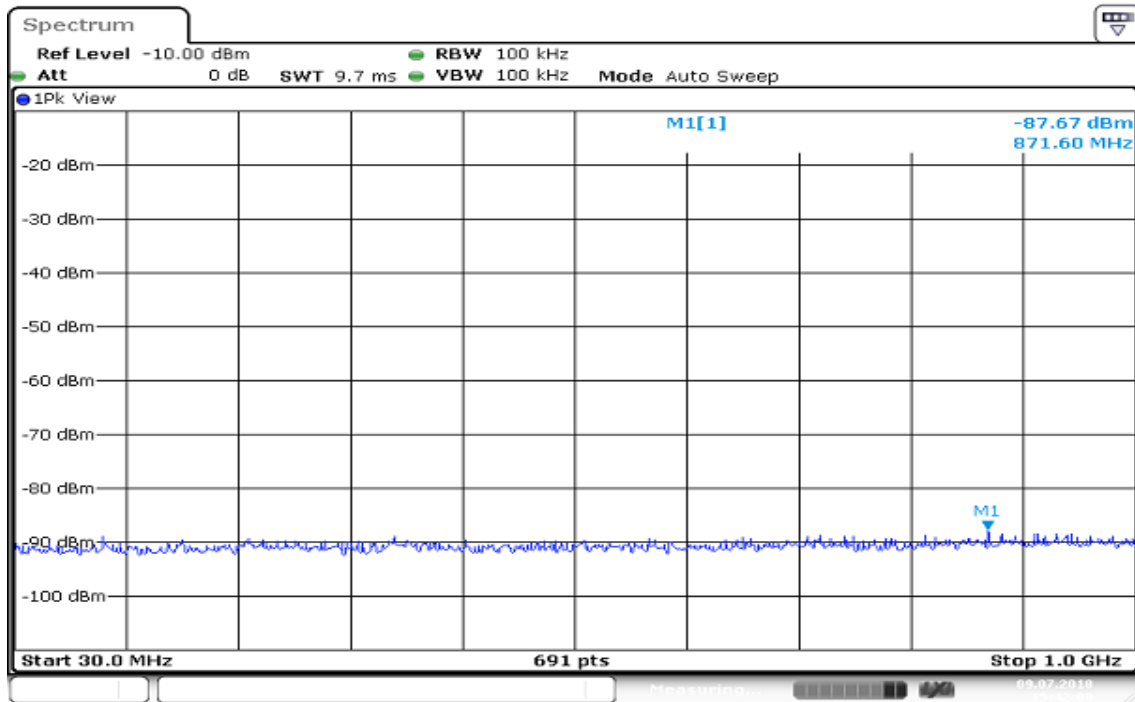
TEST RESULT**30MHz ~ 1GHz****(W56)**

Freq: 30MHz~1GHz

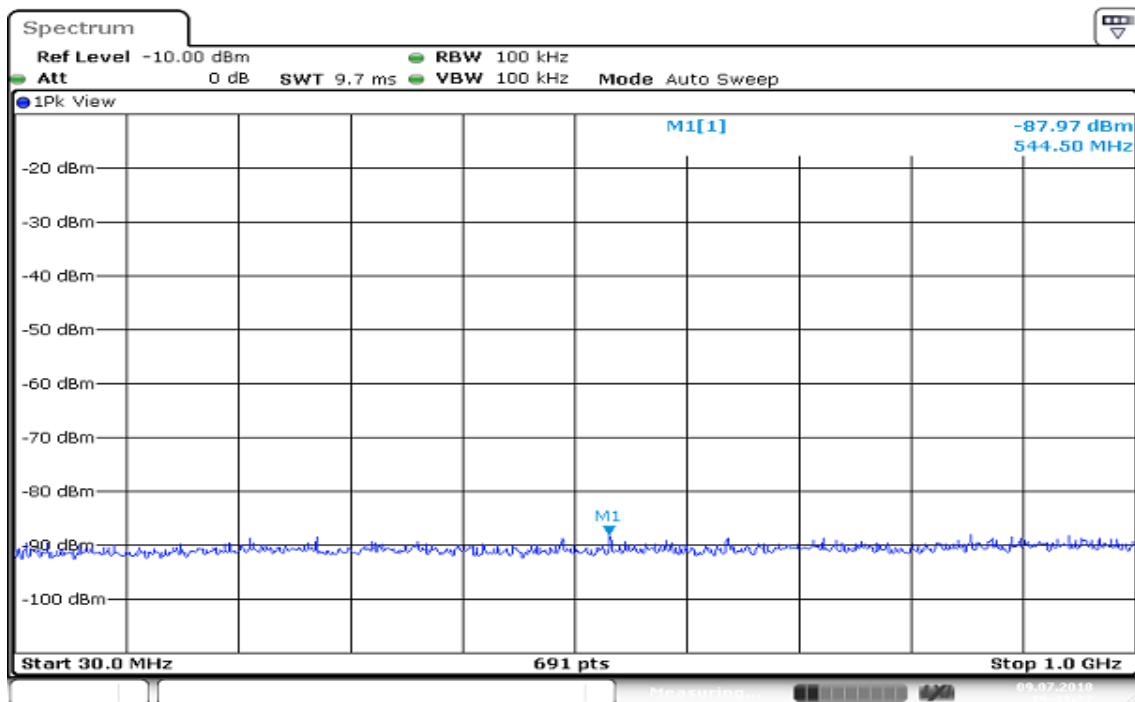
	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5500 MHz	944.6000	-88.28	10.37	0.0162	Normal Voltage
5600 MHz	871.6000	-87.67	10.37	0.0186	
5700 MHz	544.5000	-87.97	10.37	0.0174	

TEST PLOTS**Ant 1 / CH Low(W56)**

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



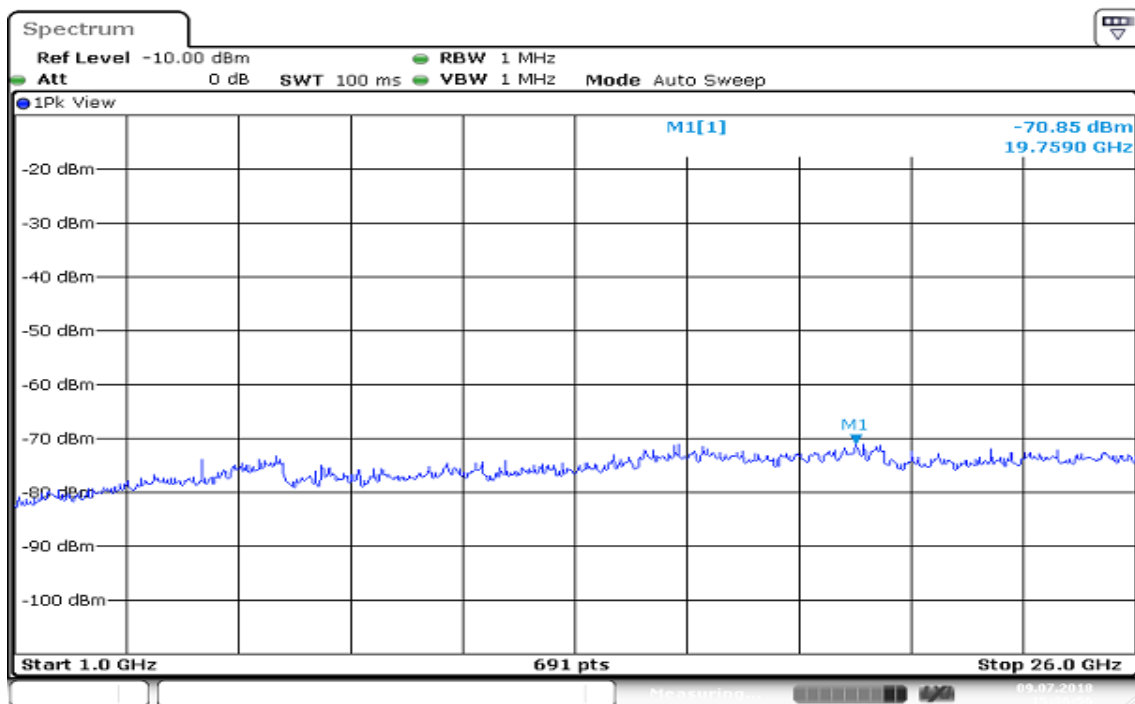


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 26GHz****(W52 & W53)**

Freq: 1GHz~26GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5180 MHz	19759.0000	-70.85	10.97	1.0280	Normal Voltage
5240 MHz	19795.0000	-70.17	10.97	1.2023	
5320 MHz	19940.0000	-71.50	10.97	0.8851	

TEST PLOTS**Ant 1 / CH Low(W52 & W53)**

Date: 9 JUL 2018 15:26:56

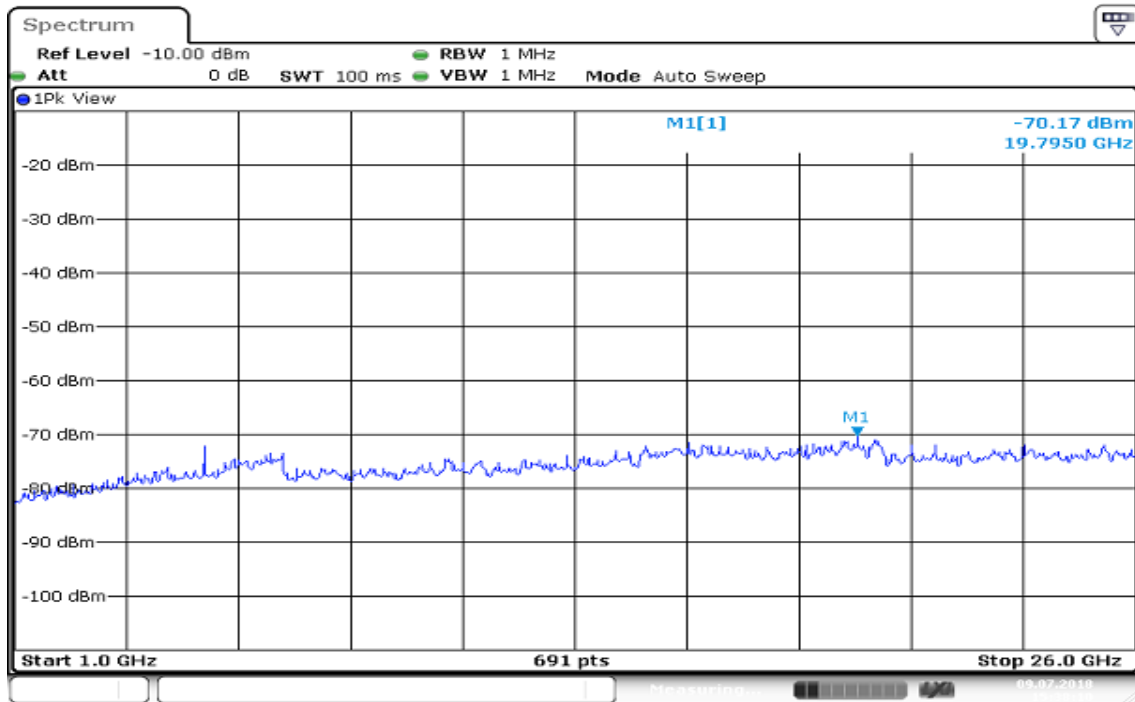


Report No.: T180627D12-RJ3

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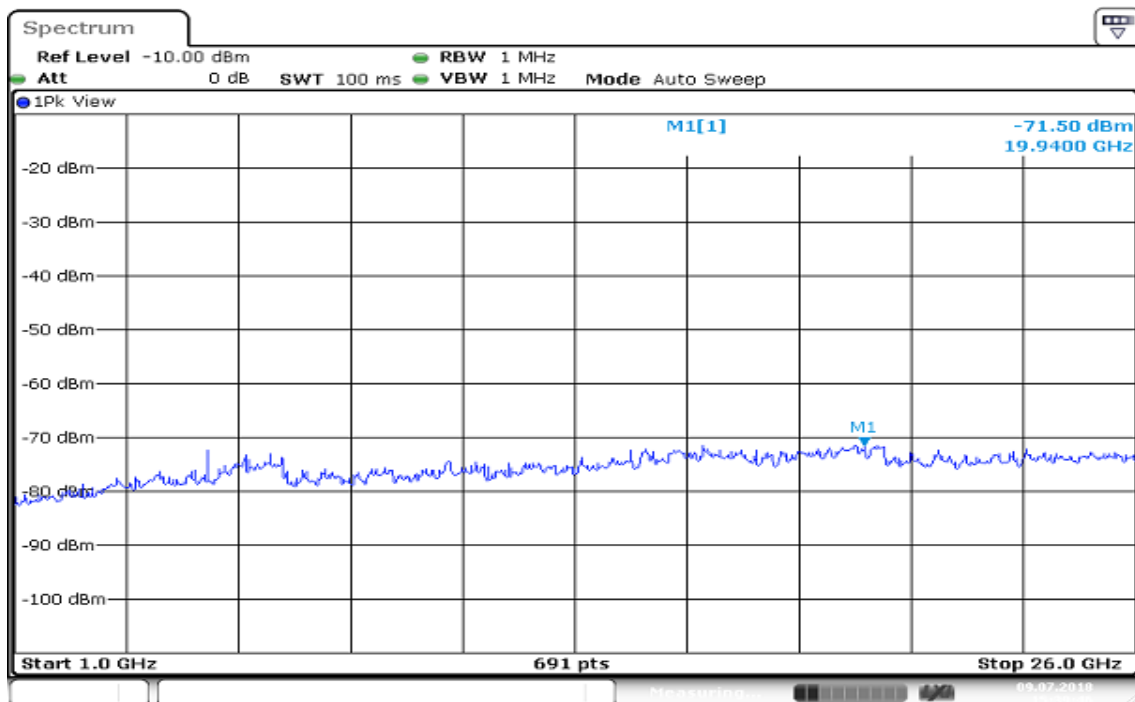
Rev.: 01

Ant 1 / CH Mid(W52 & W53)



Date: 9.JUL.2018 15:28:11

Ant 1 / CH High(W52 & W53)



Date: 9.JUL.2018 15:29:46

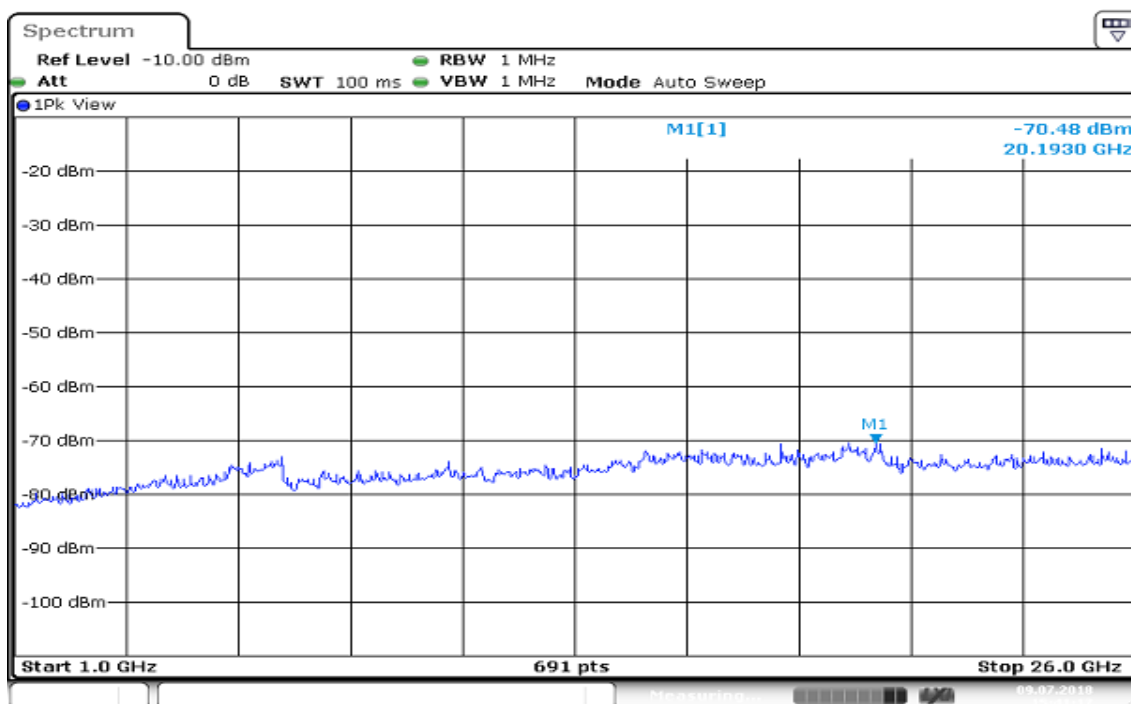


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 26GHz****(W56)**

Freq: 1GHz~26GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5500 MHz	20193.0000	-70.48	10.97	1.1194	Normal Voltage
5600 MHz	19759.0000	-70.89	10.97	1.0186	
5700 MHz	19759.0000	-70.48	10.97	1.1194	

TEST PLOTS**Ant 1 / CH Low(W56)**

Date: 9 JUL 2018 15:41:17

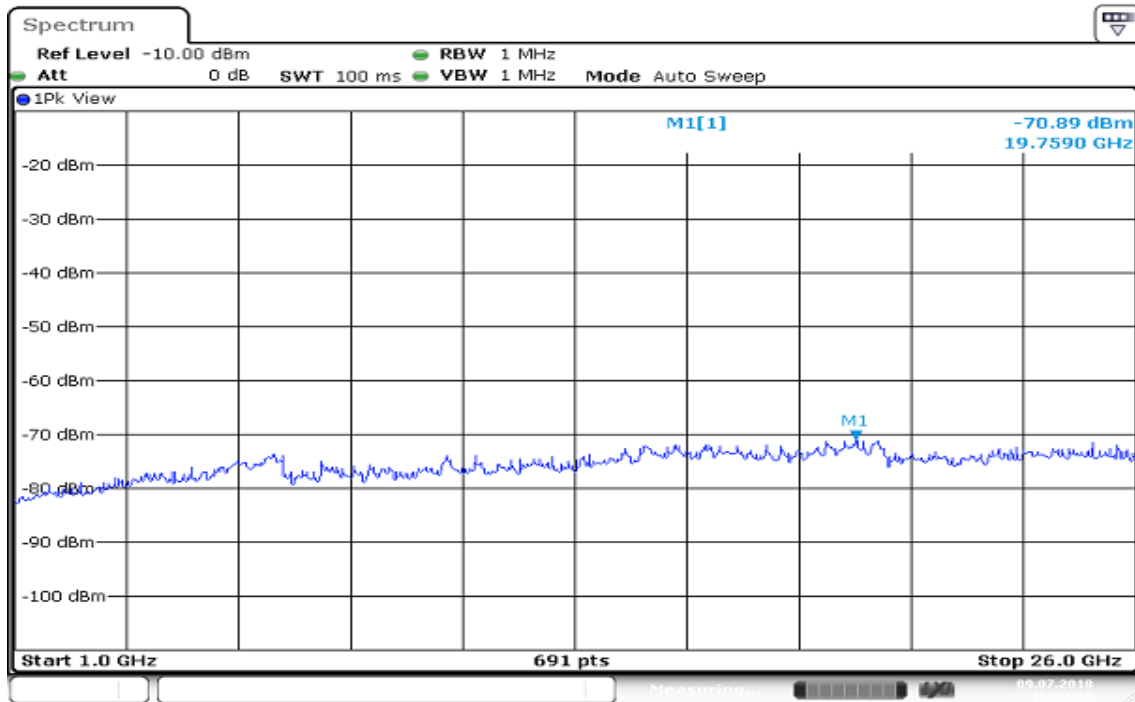


Report No.: T180627D12-RJ3

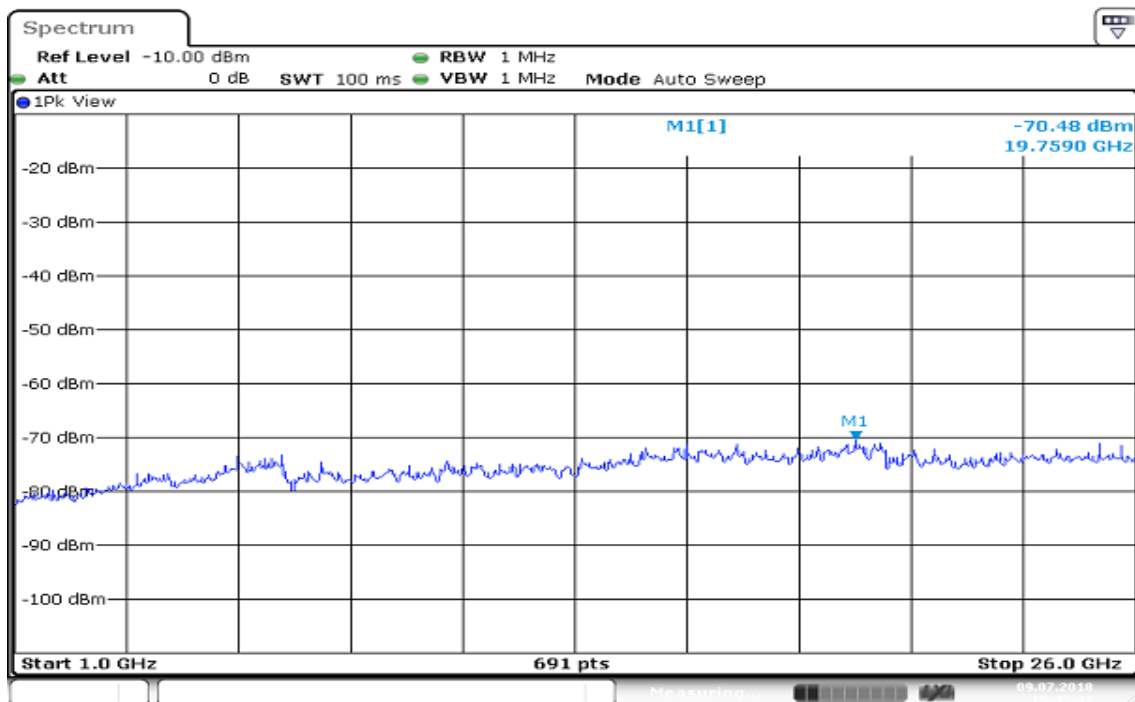
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Rev.: 01

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)





Report No.: T180627D12-RJ3

6.6 OUT-BAND LEAKAGE POWER (EIRP)

Out-band Leakage Power

TEST RESULT

5.135GHz ~ 5.142GHz

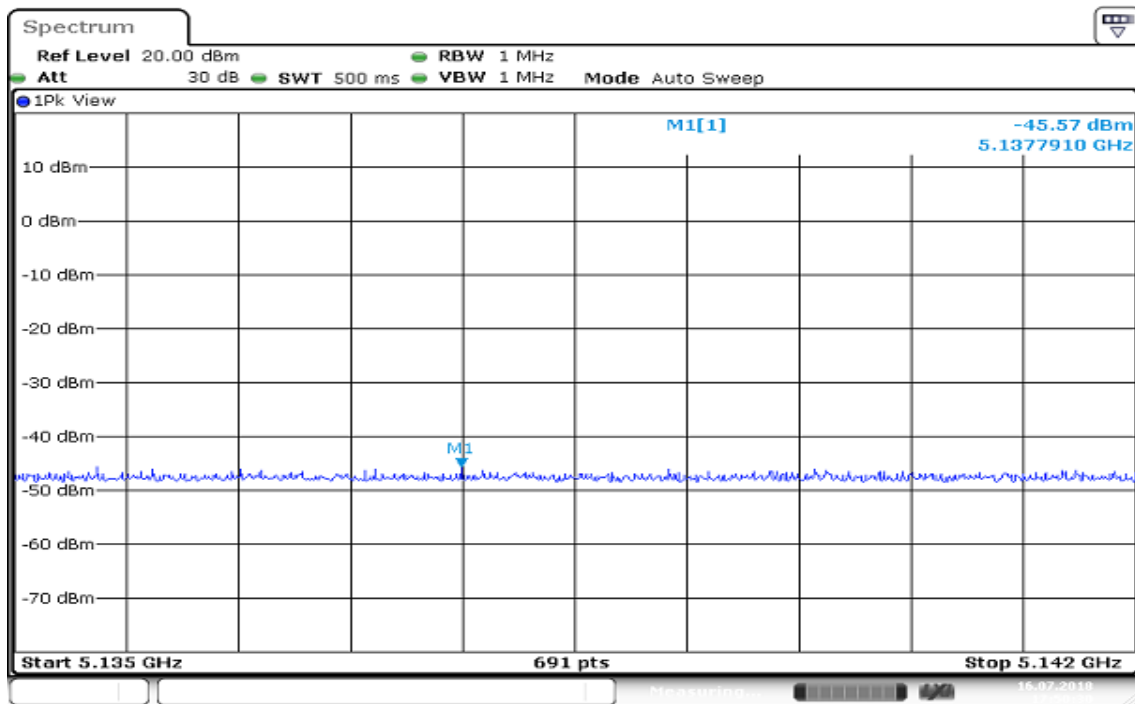
(W52)

(1) 5135MHz~less than 5142MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5137.7910	-45.57	16.92	1.36458	Normal Voltage
5200.0000	5135.7750	-45.48	16.92	1.39316	
5240.0000	5140.4550	-45.26	16.92	1.46555	

TEST PLOTS

Ant 1 / CH Low(W52)



Date: 16 JUL 2018 17:50:31

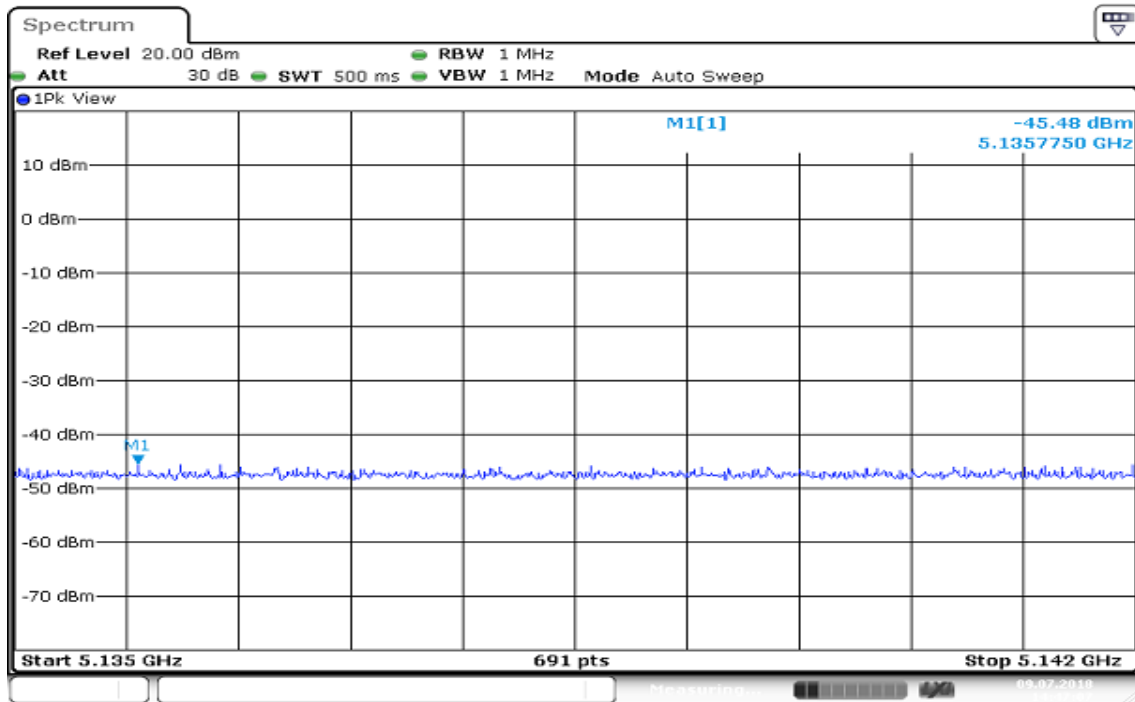


Report No.: T180627D12-RJ3

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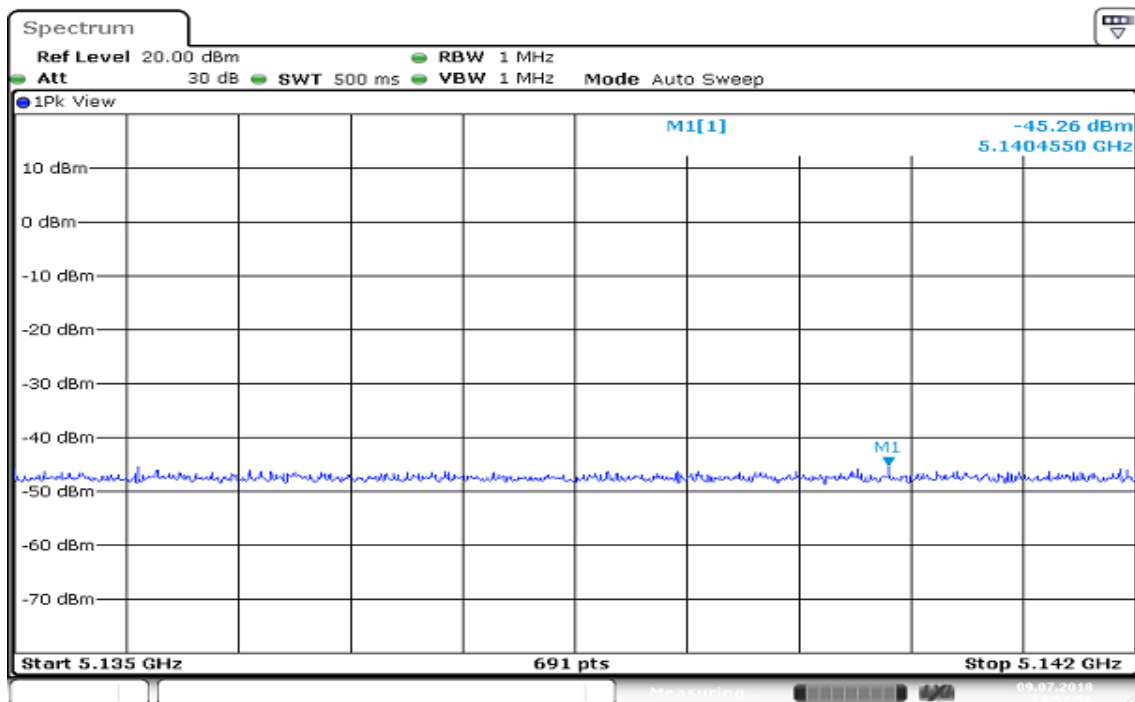
Rev.: 01

Ant 1 / CH Mid(W52)



Date: 9 JUL 2018 14:47:07

Ant 1 / CH High(W52)



Date: 9 JUL 2018 14:52:56

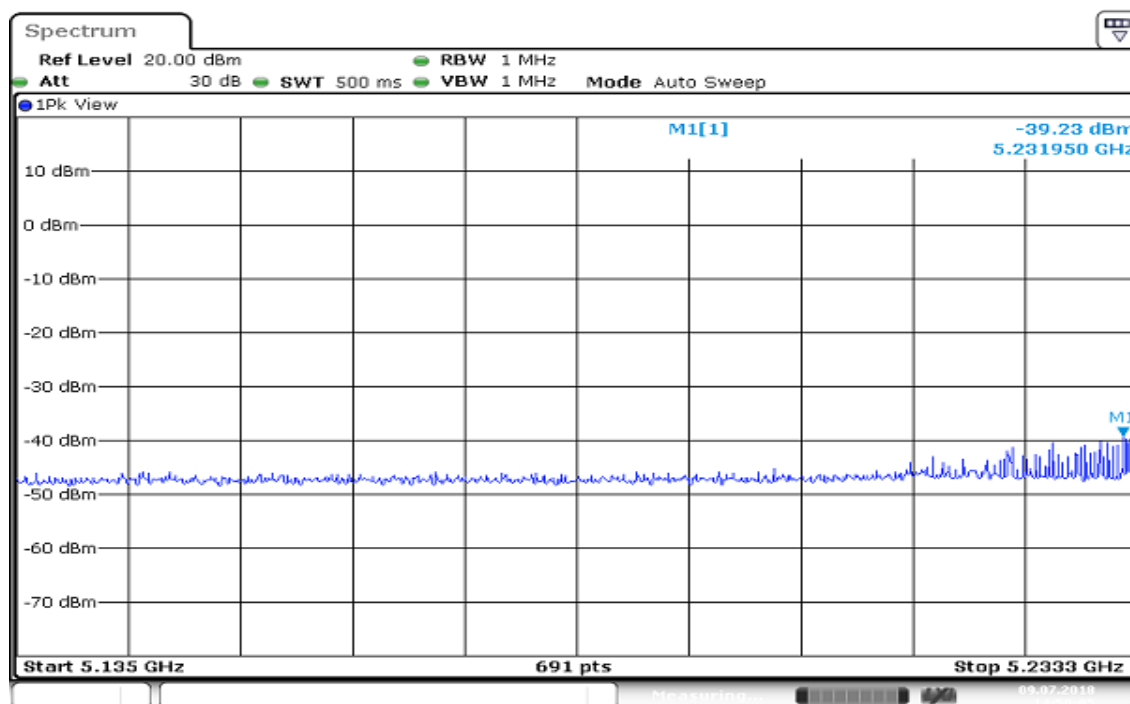


Report No.: T180627D12-RJ3

TEST RESULT**5.135GHz ~ 5.2333GHz****(W53)**

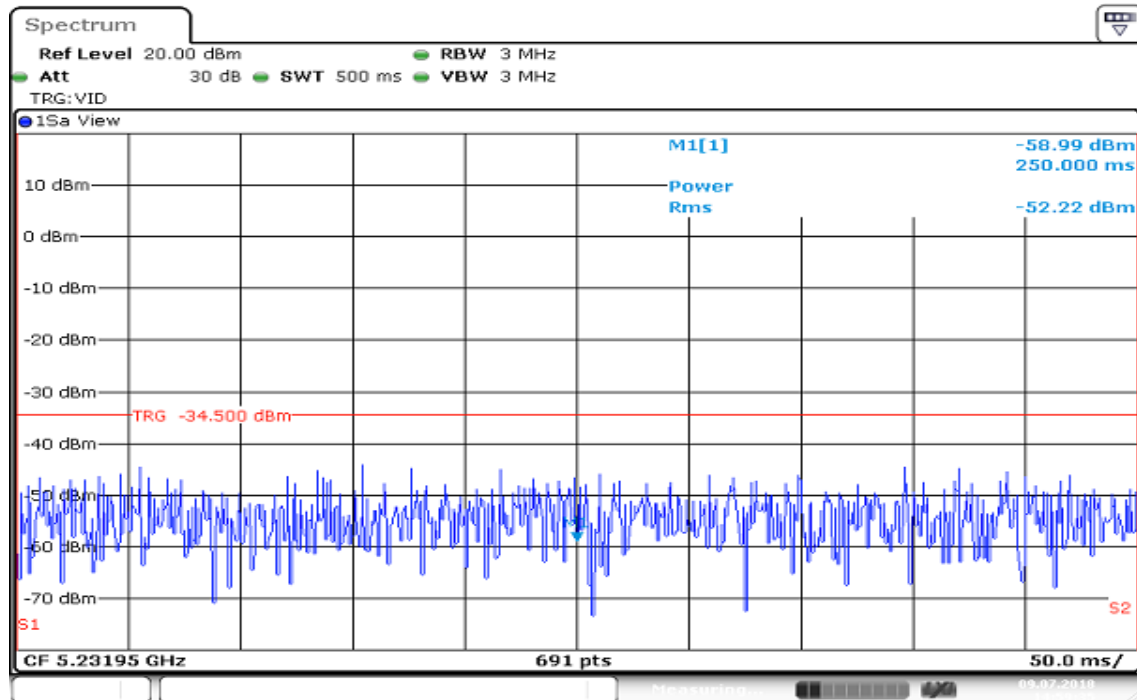
(1) 5135MHz~less than 5.2333MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5231.9500	-52.22	16.92	0.29512	Normal Voltage
5300.0000	5206.3400	-45.35	16.92	1.43549	
5320.0000	5214.3100	-45.14	16.92	1.50661	

TEST PLOTS**Ant 1 / CH Low(W53)****(Search)**

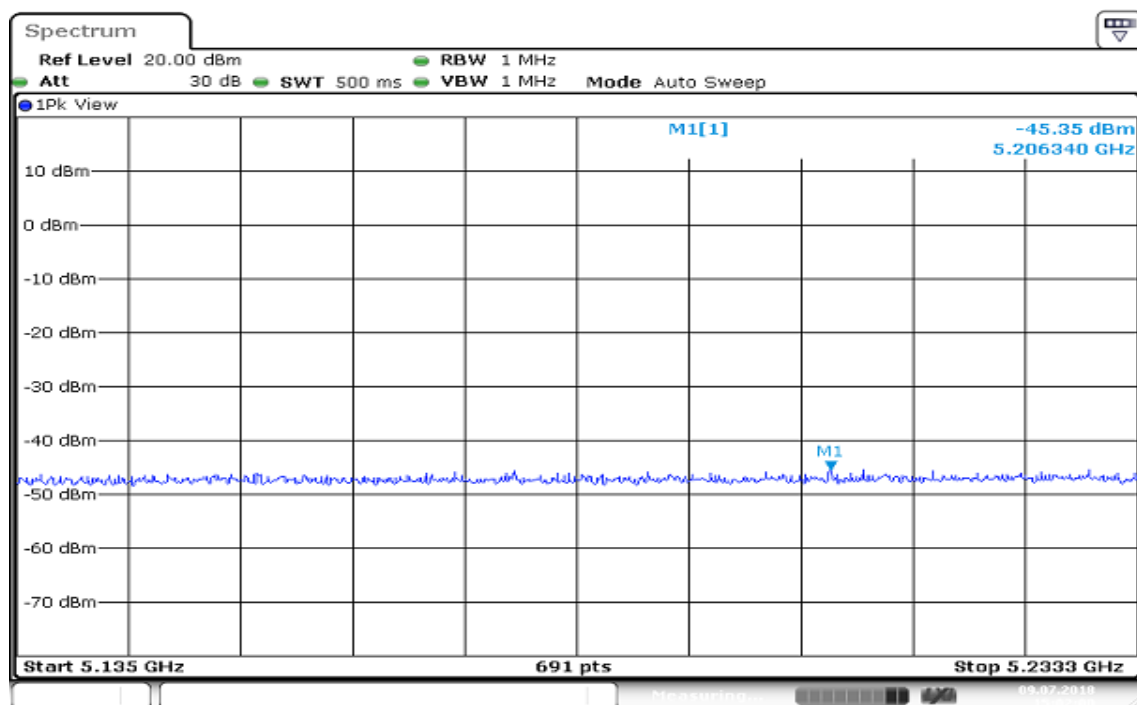
Date: 9 JUL 2018 14:59:06

(Detail)



Date: 9 JUL 2018 14:59:26

Ant 1 / CH Mid(W53)



Date: 9 JUL 2018 15:02:01

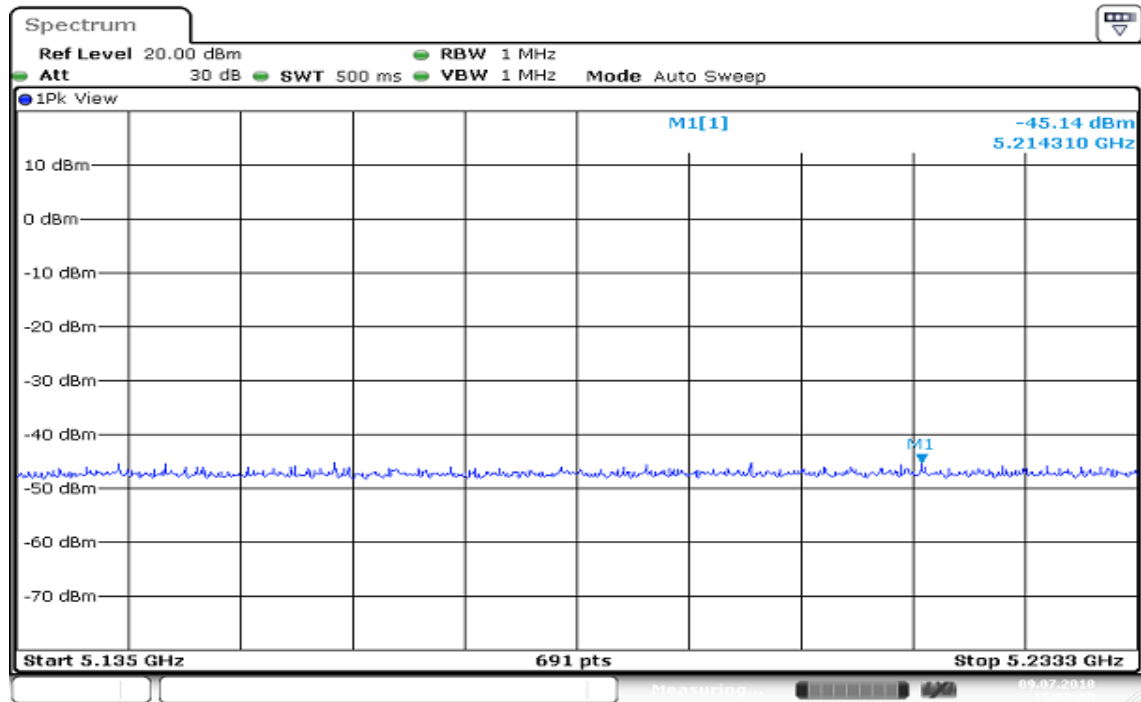


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Rev.: 01

Ant 1 / CH High(W53)



Date: 9 JUL 2018 15:08:01

Report No.: T180627D12-RJ3

TEST RESULT

5.455GHz ~ 5.46GHz

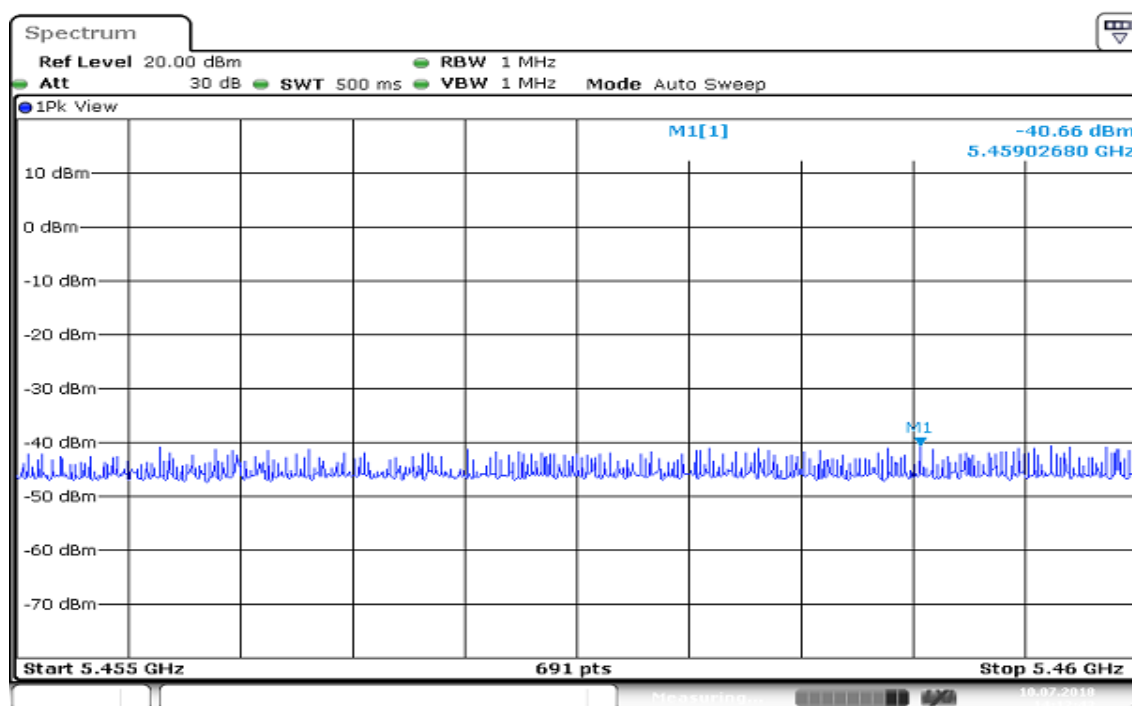
(W56)

(1) 5455MHz~less than 5460MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5459.0268	-40.66	10.92	1.06170	Normal Voltage
5600.0000	5459.2800	-45.54	10.92	0.34514	
5700.0000	5458.9834	-45.13	10.92	0.37931	

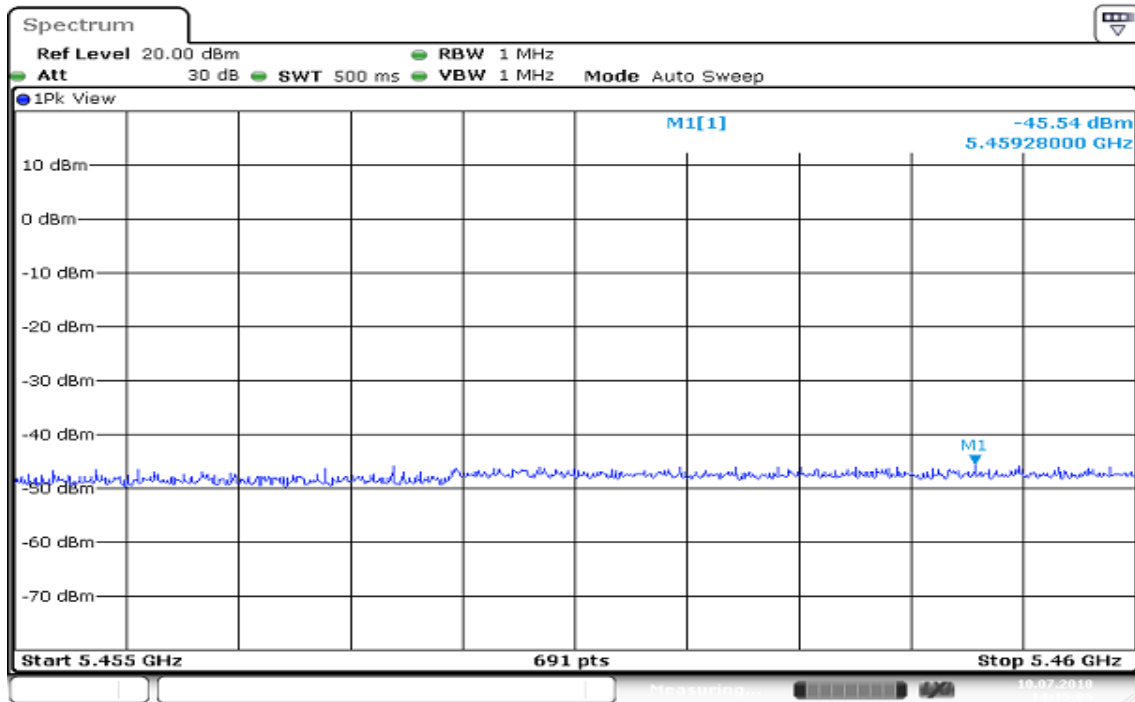
TEST PLOTS

Ant 1 / CH Low(W56)

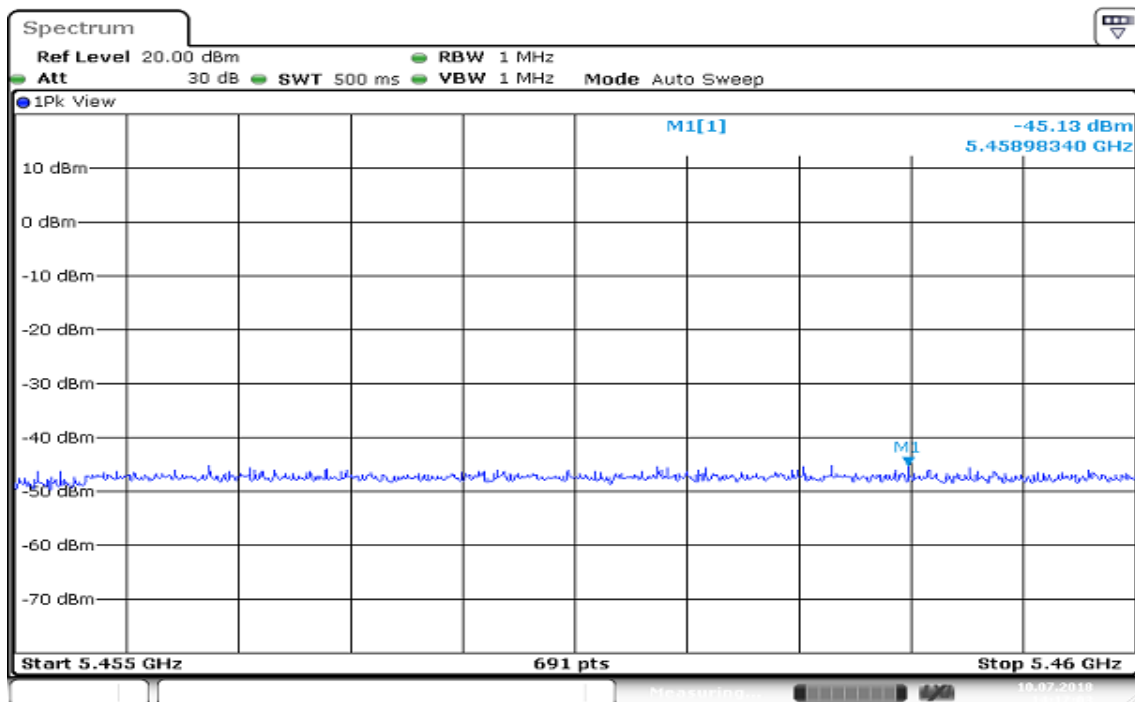


Date: 10 JUL 2018 14:12:44

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



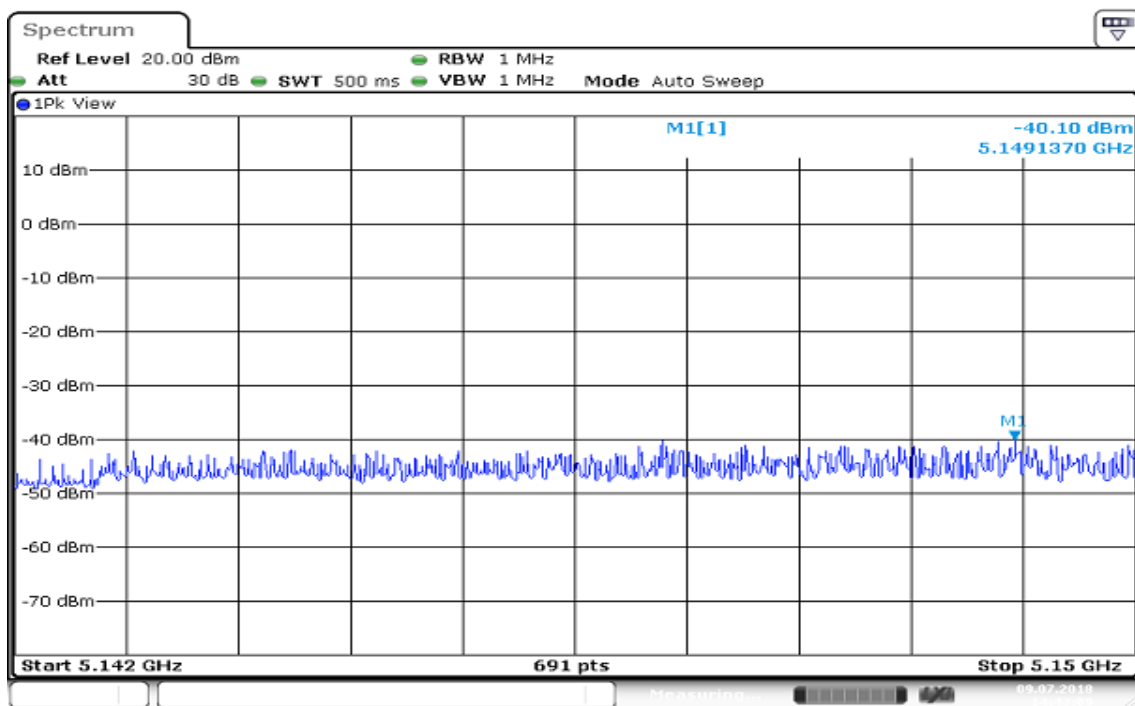


Report No.: T180627D12-RJ3

TEST RESULT**5.142GHz ~ 5.15GHz****(W52)**

(2) 5142MHz~less than 5150MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5149.1370	-40.10	16.92	4.80839	Normal Voltage
5200.0000	5142.6430	-45.37	16.92	1.42889	
5240.0000	5145.0850	-45.13	16.92	1.51008	

TEST PLOTS**Ant 1 / CH Low(W52)**

Date: 9 JUL 2018 14:43:09

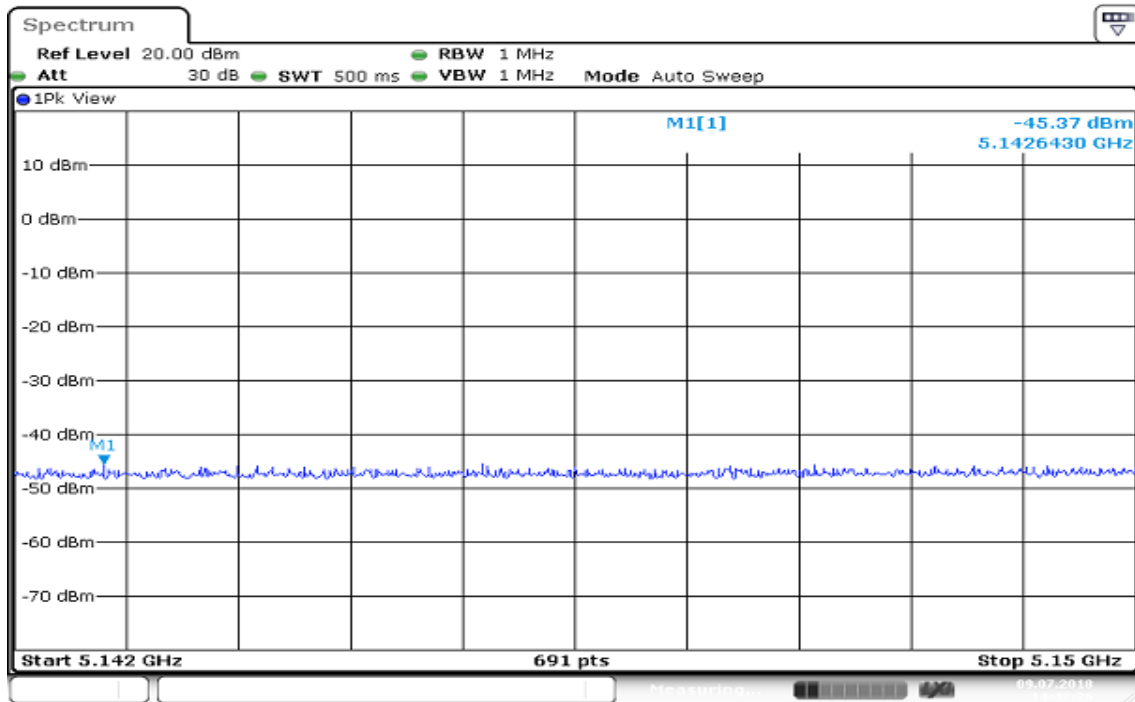


Report No.: T180627D12-RJ3

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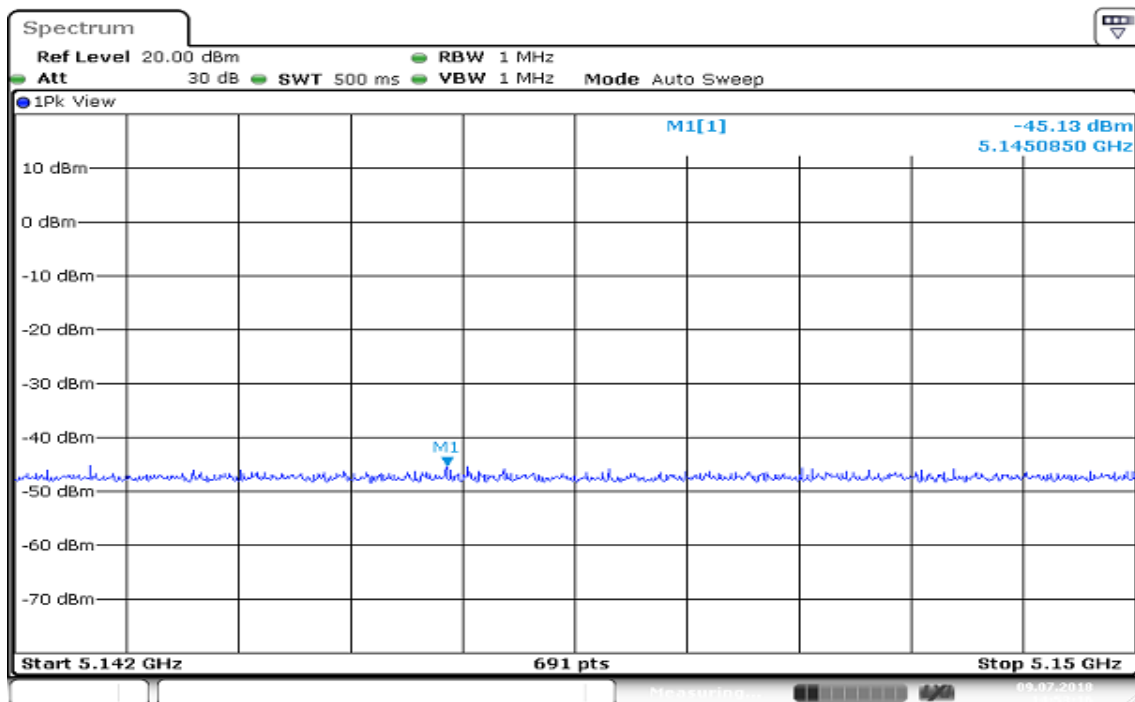
Rev.: 01

Ant 1 / CH Mid(W52)



Date: 9 JUL 2018 14:47:27

Ant 1 / CH High(W52)



Date: 9 JUL 2018 14:53:17

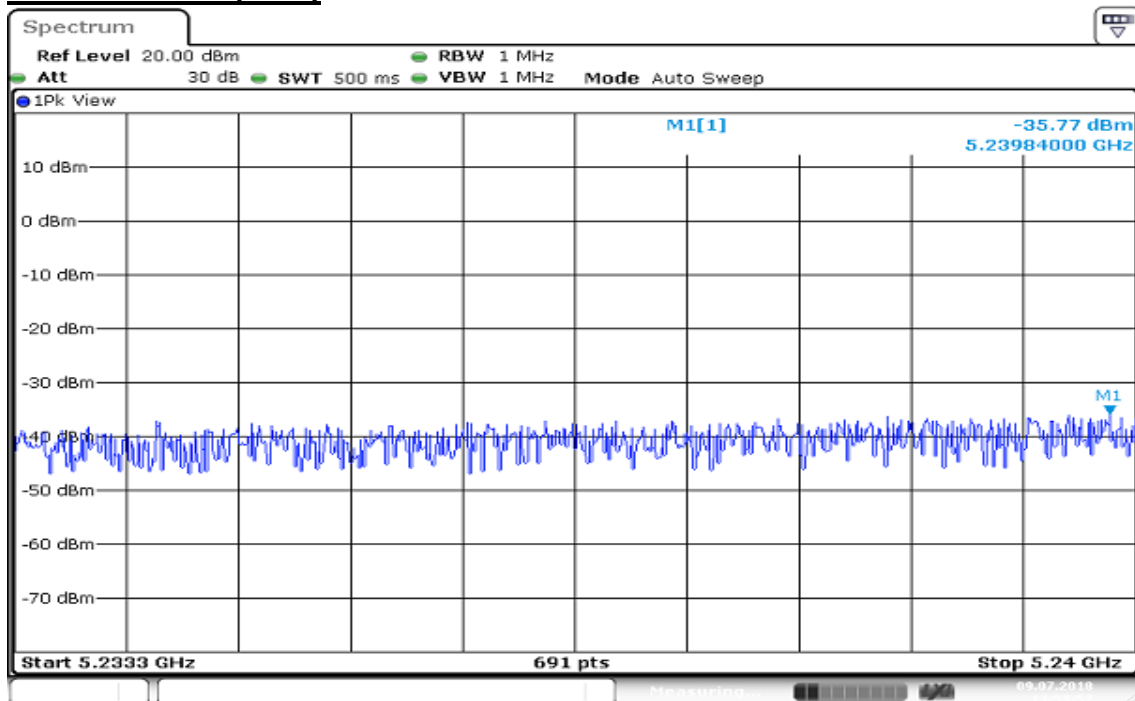


Report No.: T180627D12-RJ3

TEST RESULT**5.2333GHz ~ 5.24GHz****(W53)**

(2) 5.2333MHz~less than 5240MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5239.8400	-35.77	16.92	13.03167	Normal Voltage
5300.0000	5234.4199	-44.91	16.92	1.58855	
5320.0000	5239.1807	-44.02	16.92	1.94984	

TEST PLOTS**Ant 1 / CH Low(W53)**

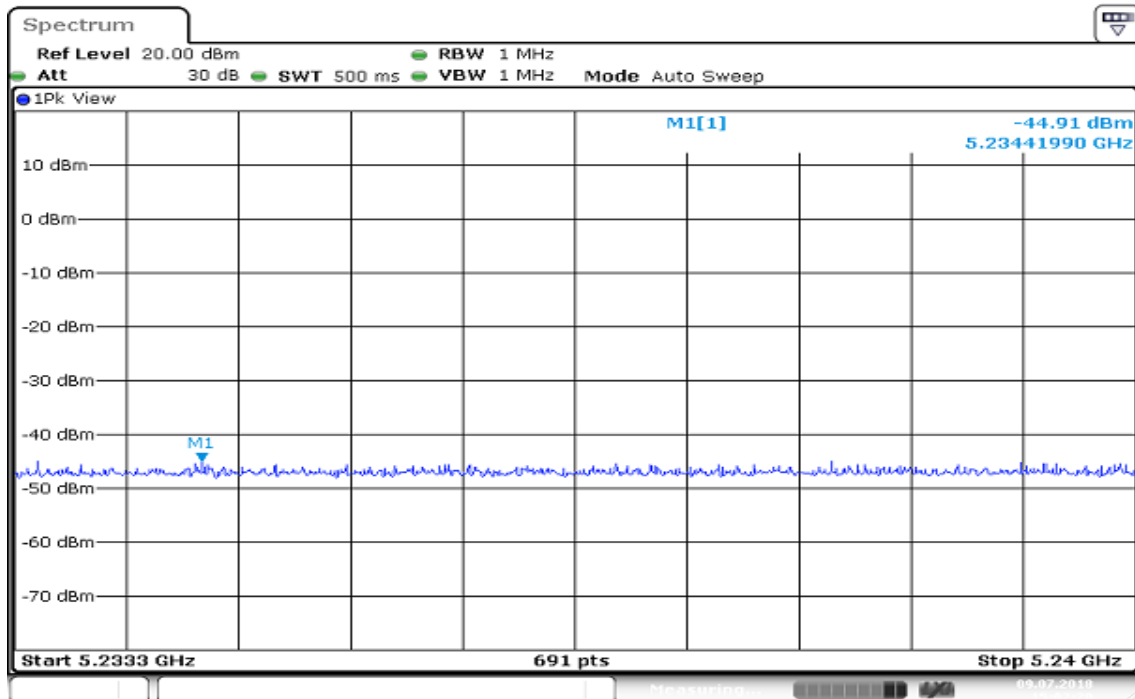


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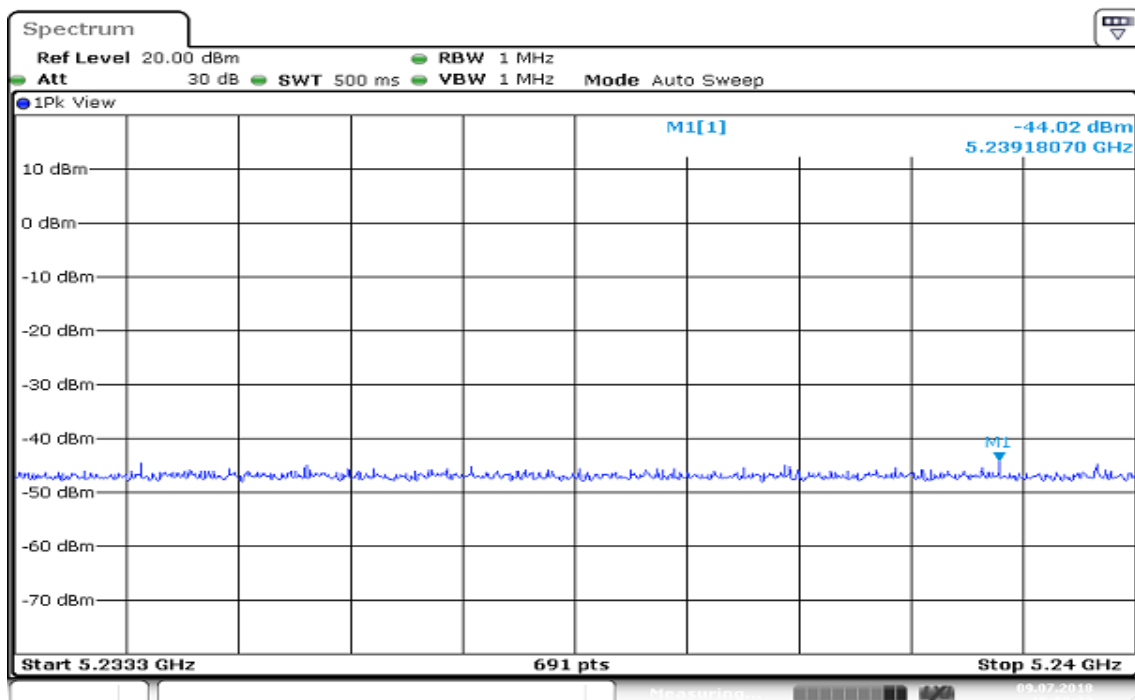
Rev.: 01

Ant 1 / CH Mid(W53)



Date: 9 JUL 2018 15:02:20

Ant 1 / CH High(W53)



Date: 9 JUL 2018 15:08:23

Report No.: T180627D12-RJ3

TEST RESULT

5.46GHz ~ 5.47GHz

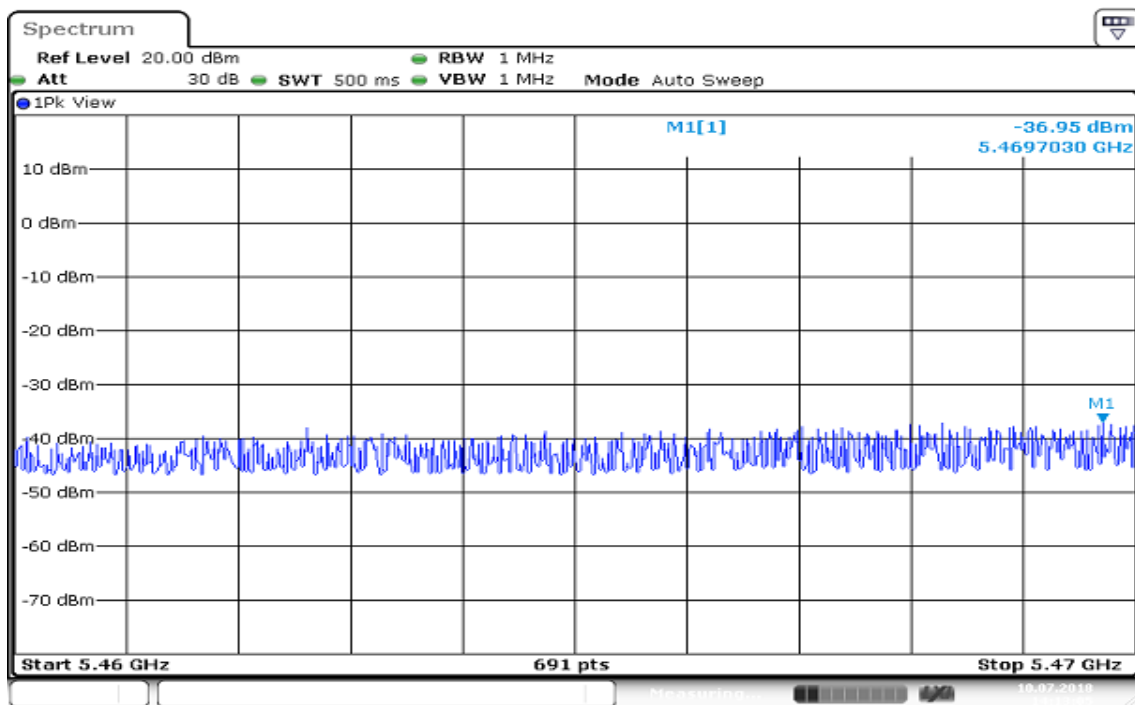
(W56)

(2) 5460MHz~less than 5470MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5469.7030	-36.95	10.92	2.49459	Normal Voltage
5600.0000	5469.2110	-44.93	10.92	0.39719	
5700.0000	5462.7280	-44.46	10.92	0.44259	

TEST PLOTS

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 14:13:05

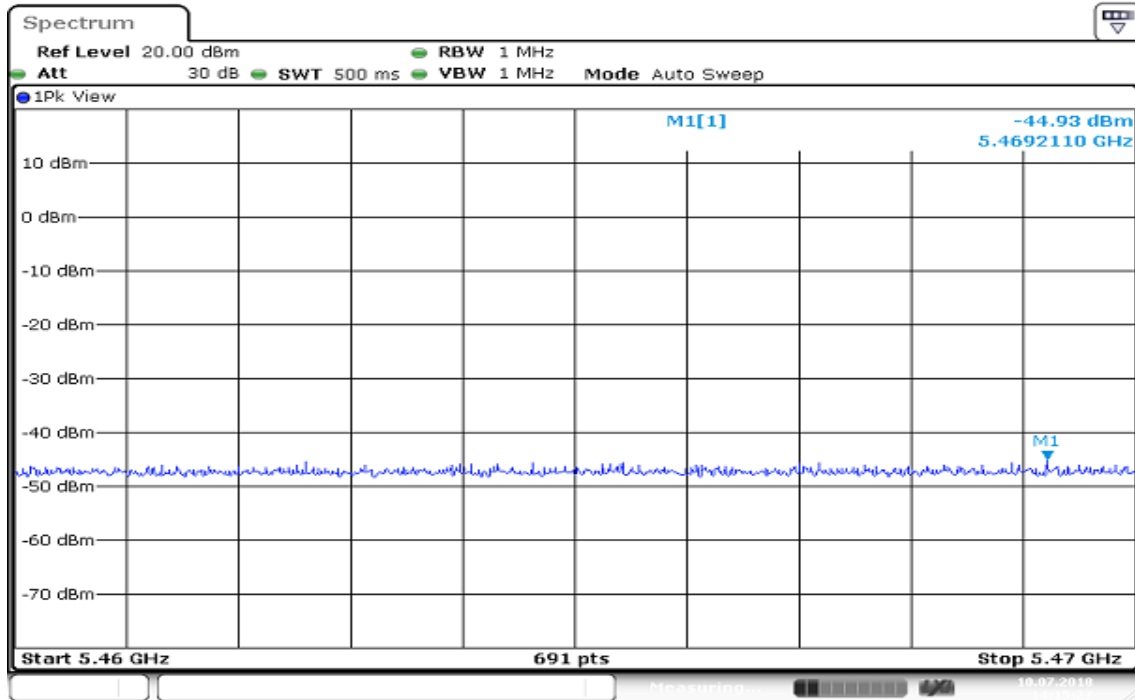


Report No.: T180627D12-RJ3

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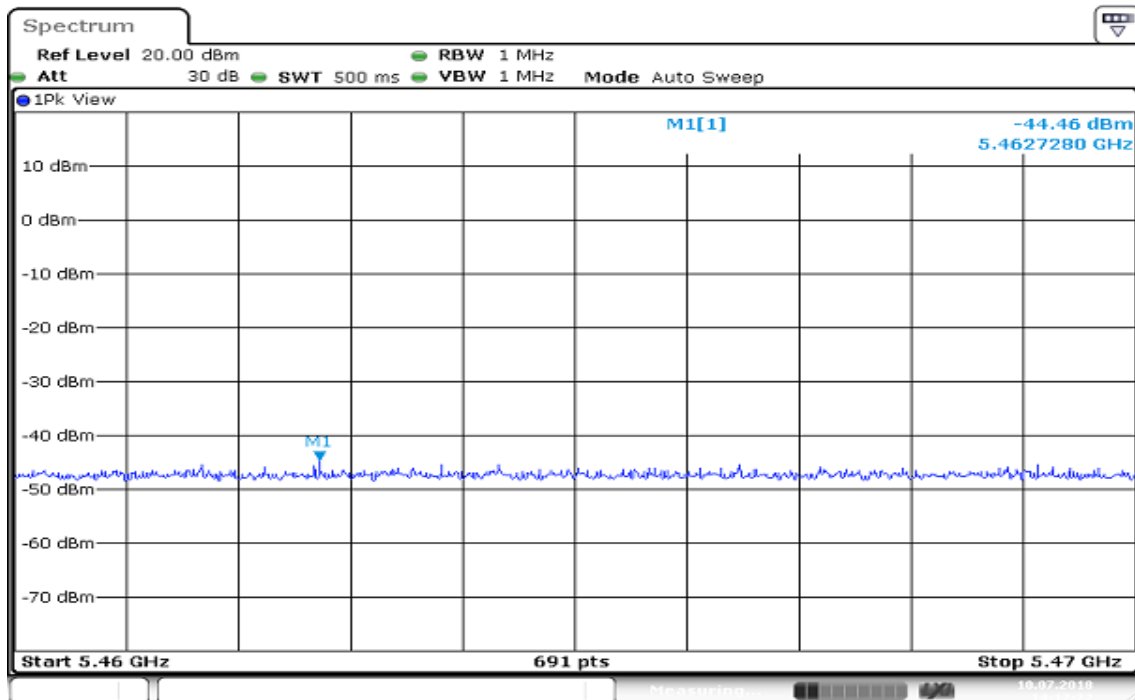
Rev: 01

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 14:15:27

Ant 1 / CH High(W56)



Date: 10 JUL 2018 14:17:23

Report No.: T180627D12-RJ3

TEST RESULT

5.25GHz ~ 5.251GHz

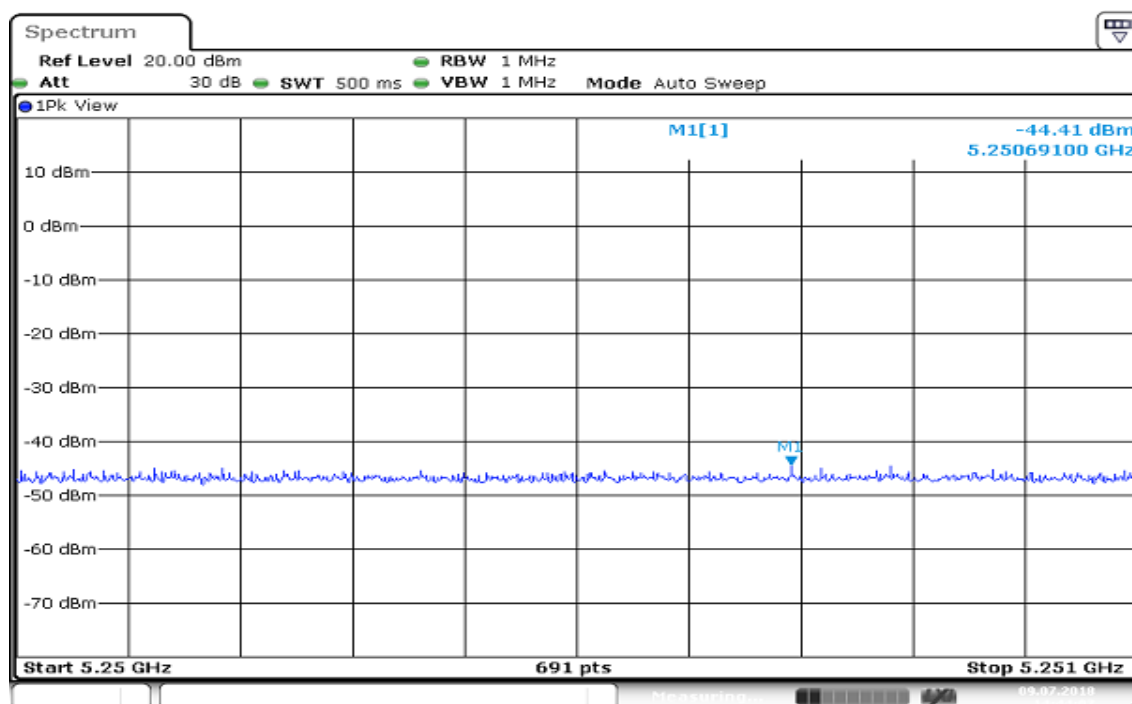
(W52)

(3) 5250MHz~less than 5251MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5250.6910	-44.41	16.92	1.78238	Normal Voltage
5200.0000	5250.3669	-44.36	16.92	1.80302	
5240.0000	5250.1006	-24.31	16.92	182.38957	

TEST PLOTS

Ant 1 / CH Low(W52)



Date: 9 JUL 2018 14:44:07

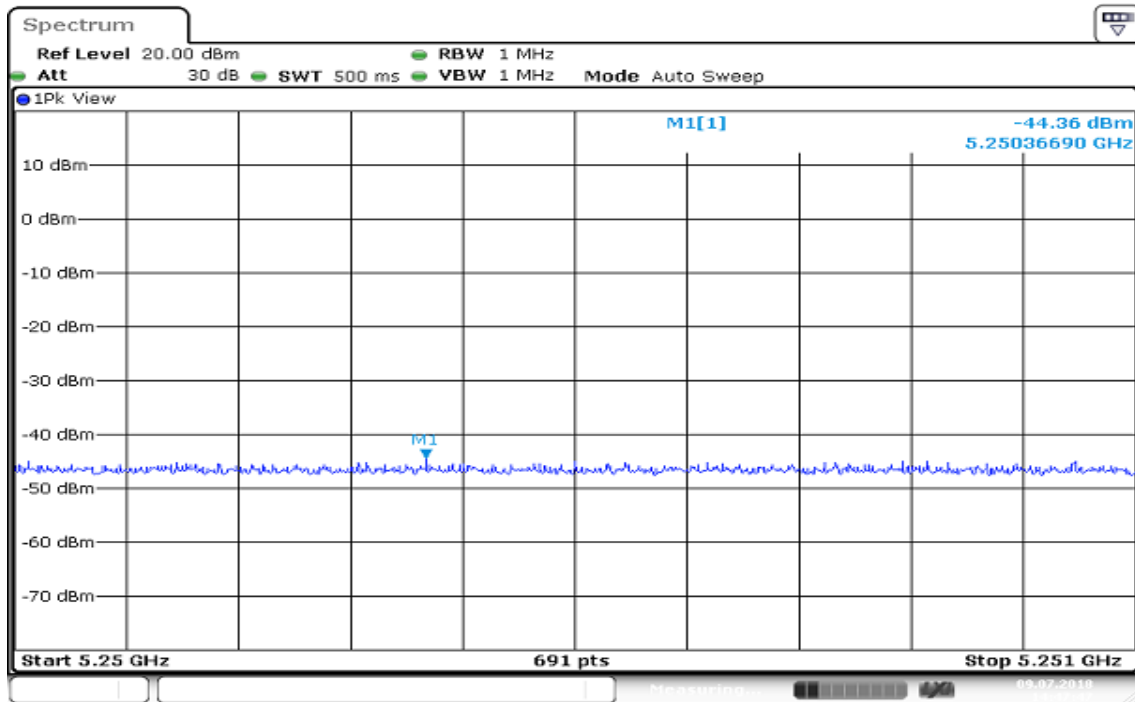


Report No.: T180627D12-RJ3

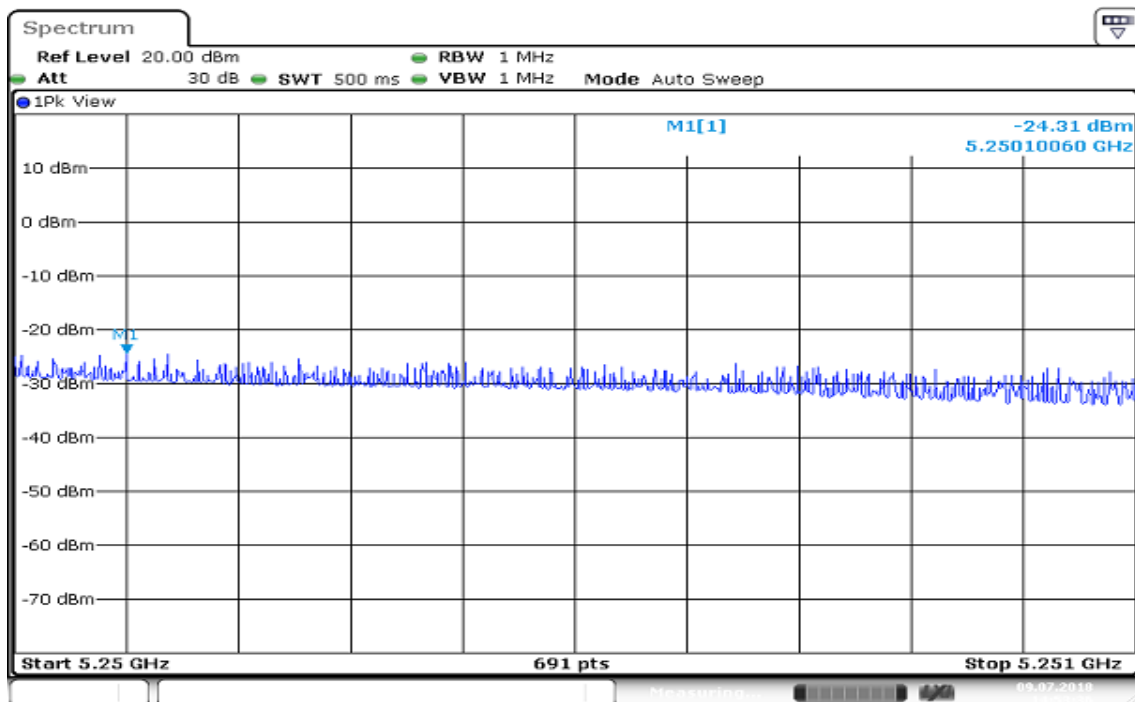
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Ant 1 / CH Mid(W52)



Ant 1 / CH High(W52)



Report No.: T180627D12-RJ3

TEST RESULT

5.24GHz ~ 5.249GHz

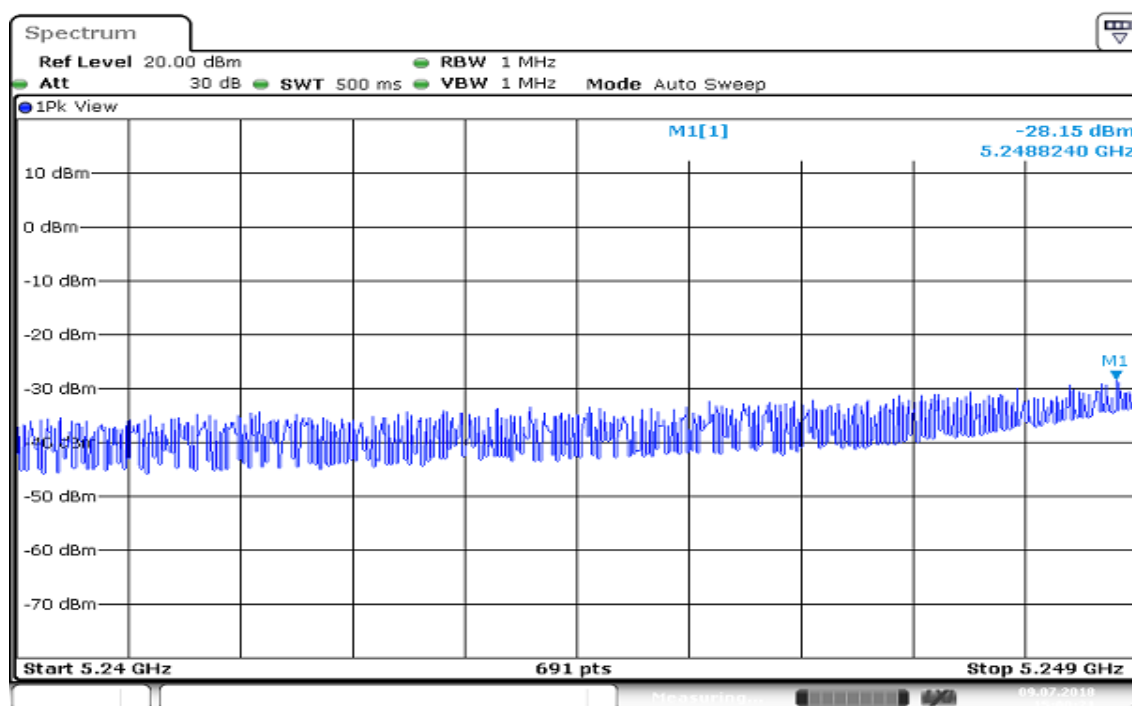
(W53)

(3) 5240MHz~less than 5249MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5248.8240	-28.15	16.92	75.33556	Normal Voltage
5300.0000	5247.8340	-44.25	16.92	1.84927	
5320.0000	5243.6010	-44.91	16.92	1.58855	

TEST PLOTS

Ant 1 / CH Low(W53)



Date: 9 JUL 2018 15:00:21

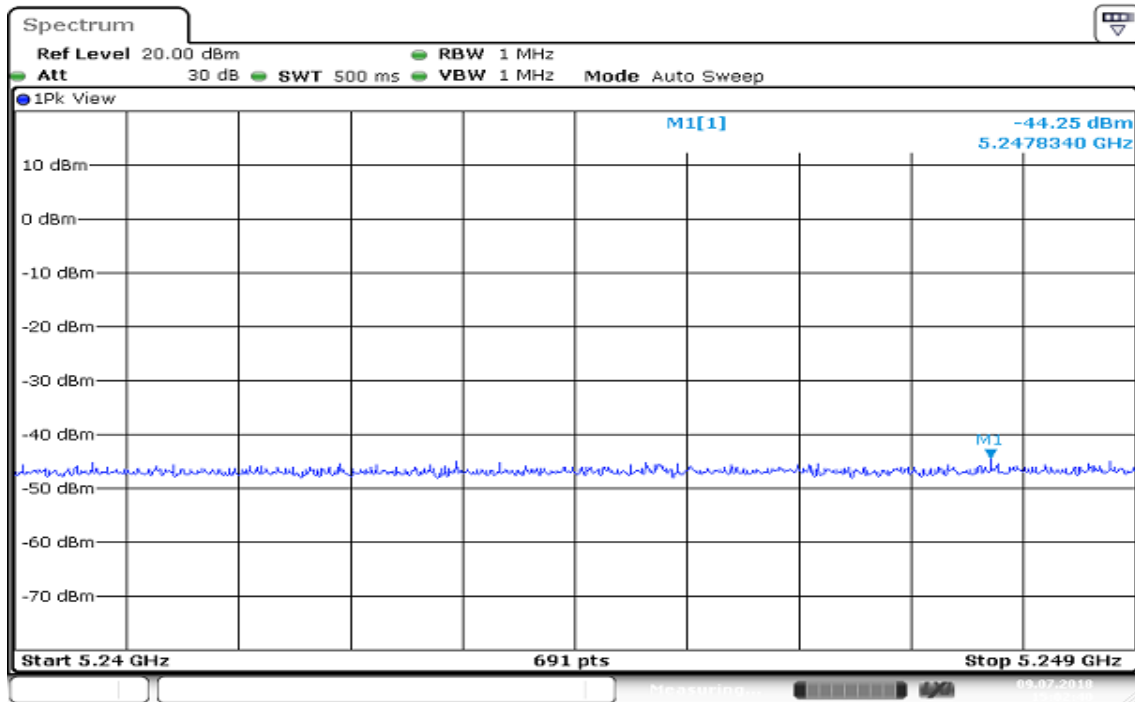


Report No.: T180627D12-RJ3

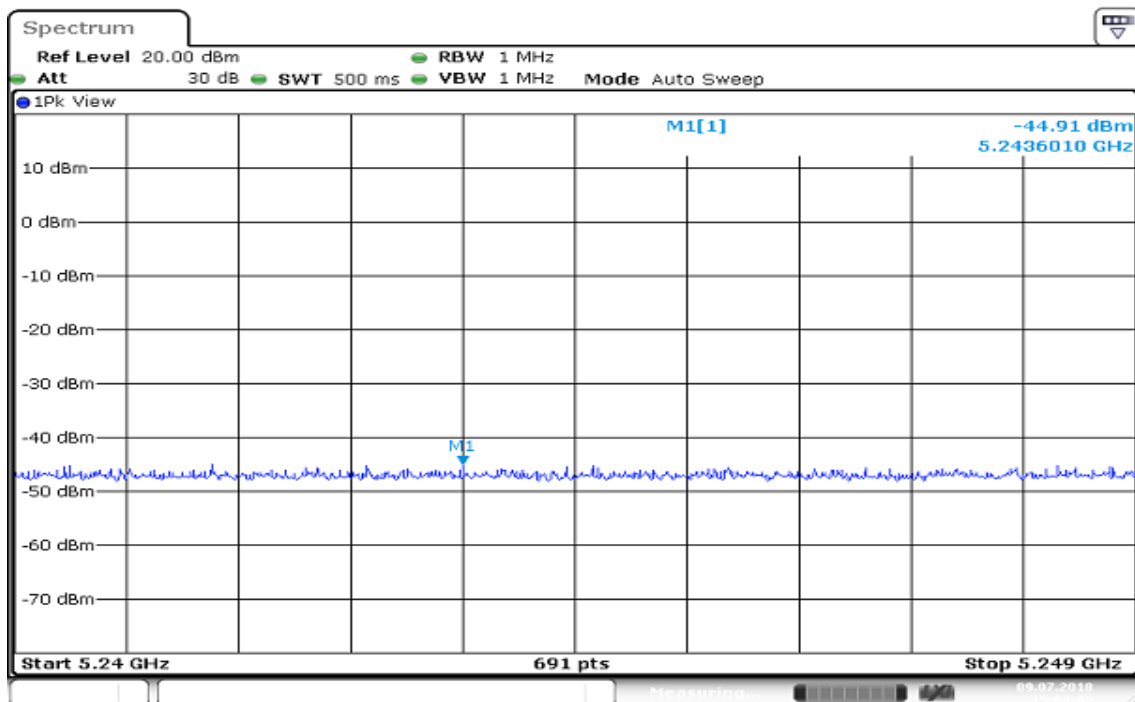
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Rev.: 01

Ant 1 / CH Mid(W53)



Ant 1 / CH High(W53)



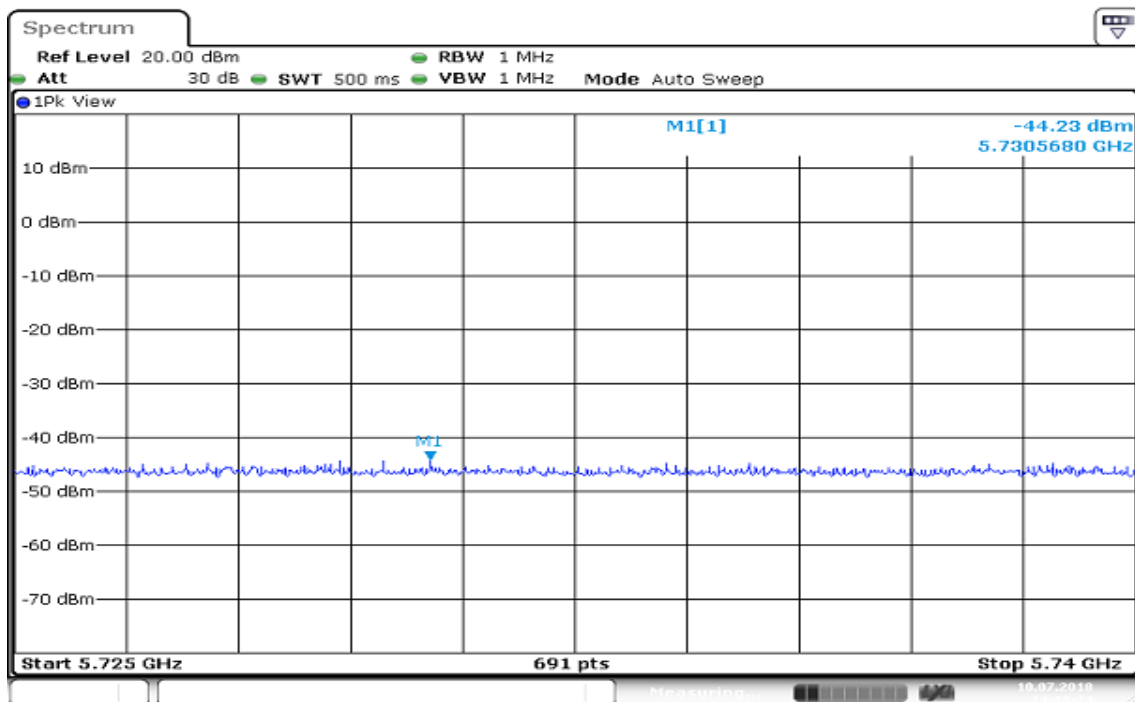


Report No.: T180627D12-RJ3

TEST RESULT**5.725GHz ~ 5.74GHz****(W56)**

(3) 5725MHz~less than 5740MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5735.6690	-44.58	10.92	0.43053	Normal Voltage
5600.0000	5726.0310	-44.55	10.92	0.43351	
5700.0000	5726.6610	-34.15	10.92	4.75335	

TEST PLOTS**Ant 1 / CH Low(W56)**

Date: 10 JUL 2018 14:13:25

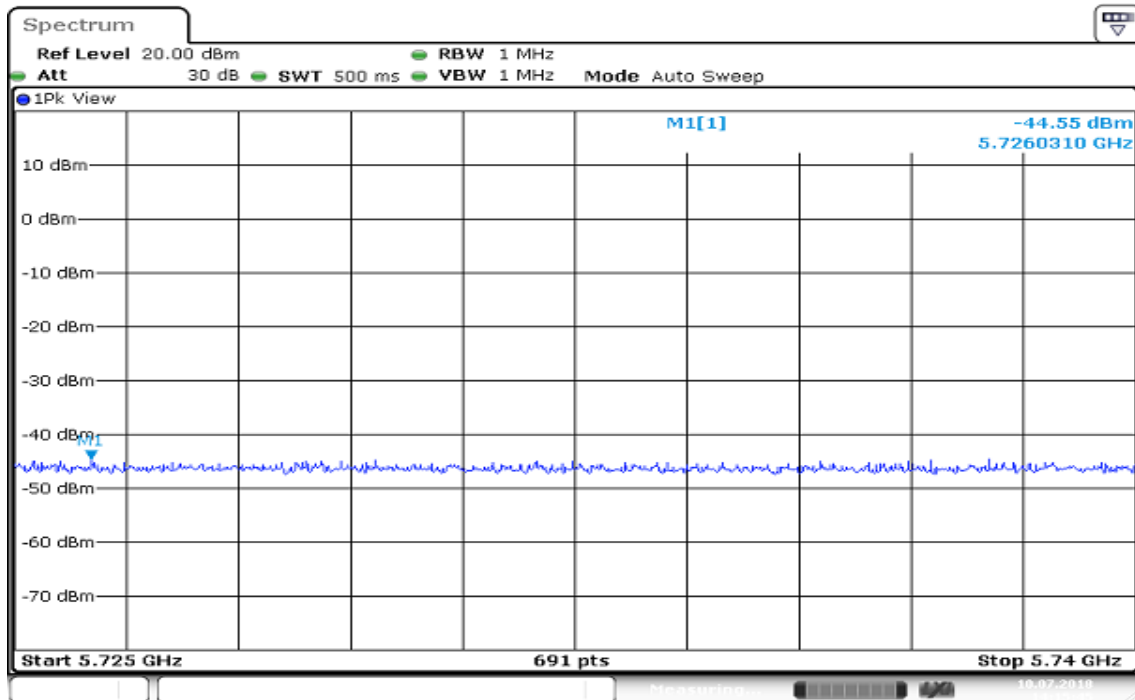


Report No.: T180627D12-RJ3

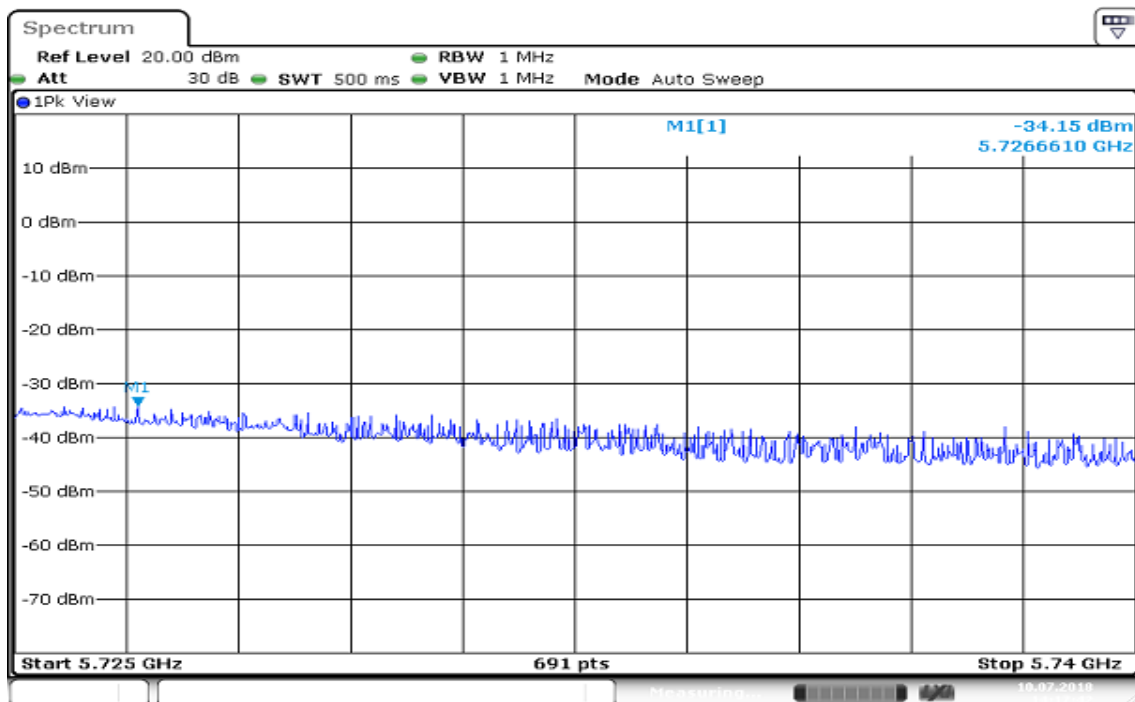
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Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



Report No.: T180627D12-RJ3

TEST RESULT

5.251GHz ~ 5.26GHz

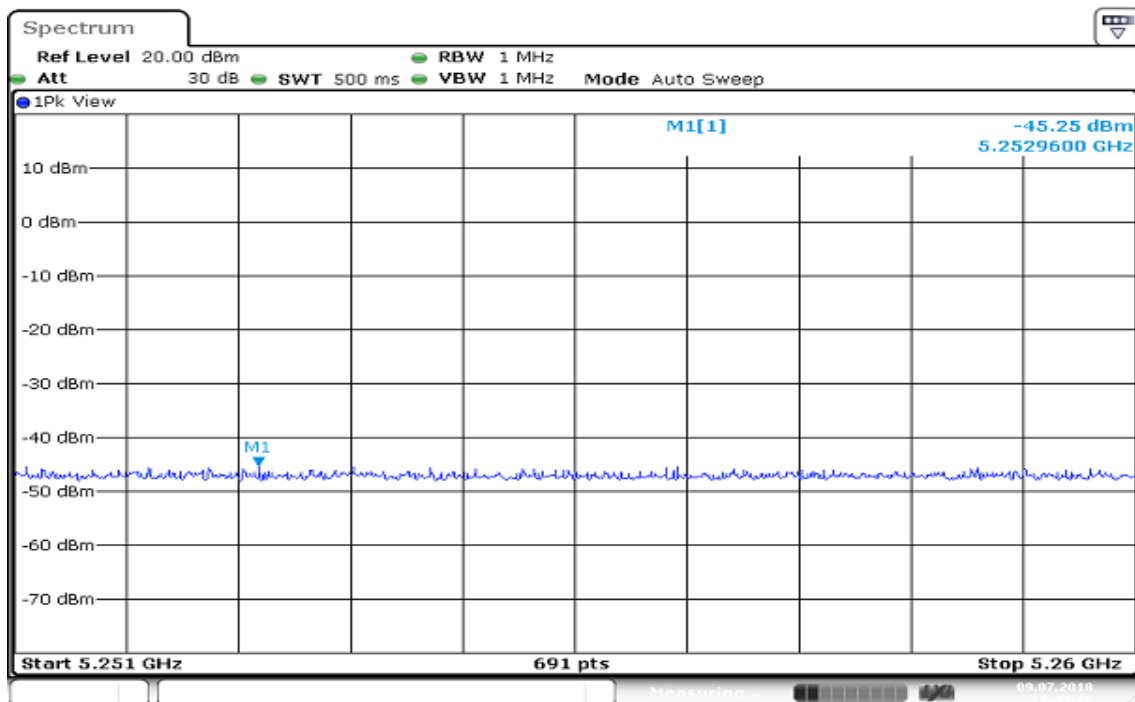
(W52)

(4) 5251MHz~5260MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5252.9600	-45.25	16.92	1.46893	Normal Voltage
5200.0000	5258.5220	-45.12	16.92	1.51356	
5240.0000	5251.1240	-27.51	16.92	87.29714	

TEST PLOTS

Ant 1 / CH Low(W52)



Date: 9 JUL 2018 14:45:15

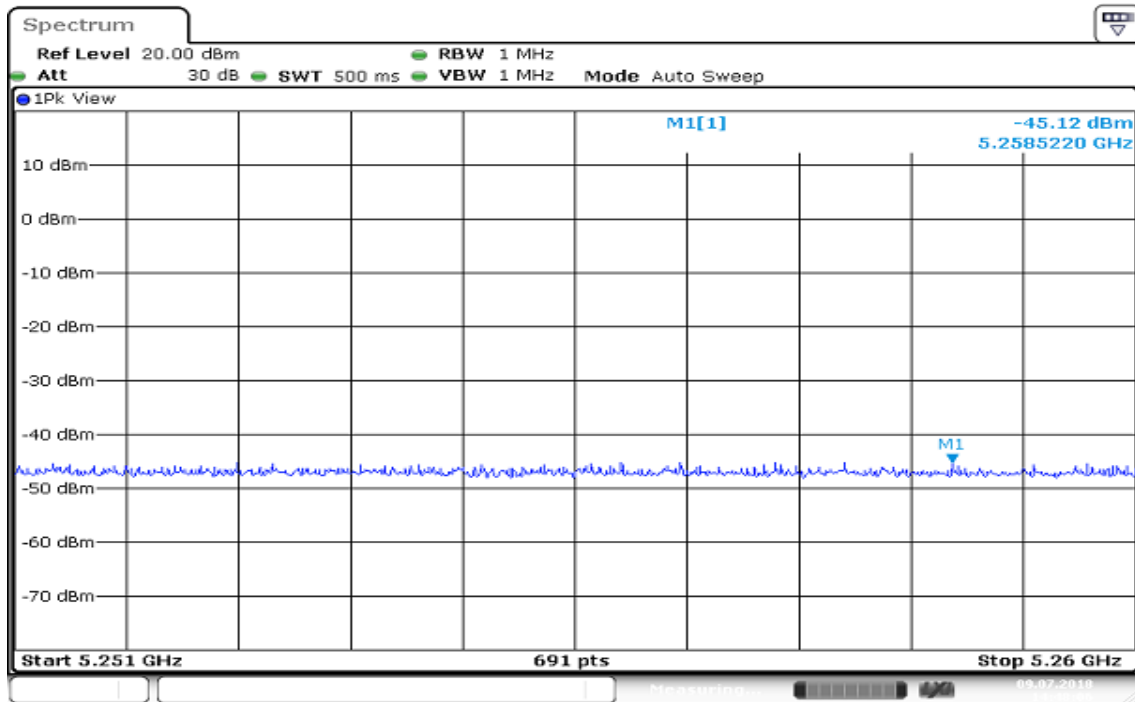


Report No.: T180627D12-RJ3

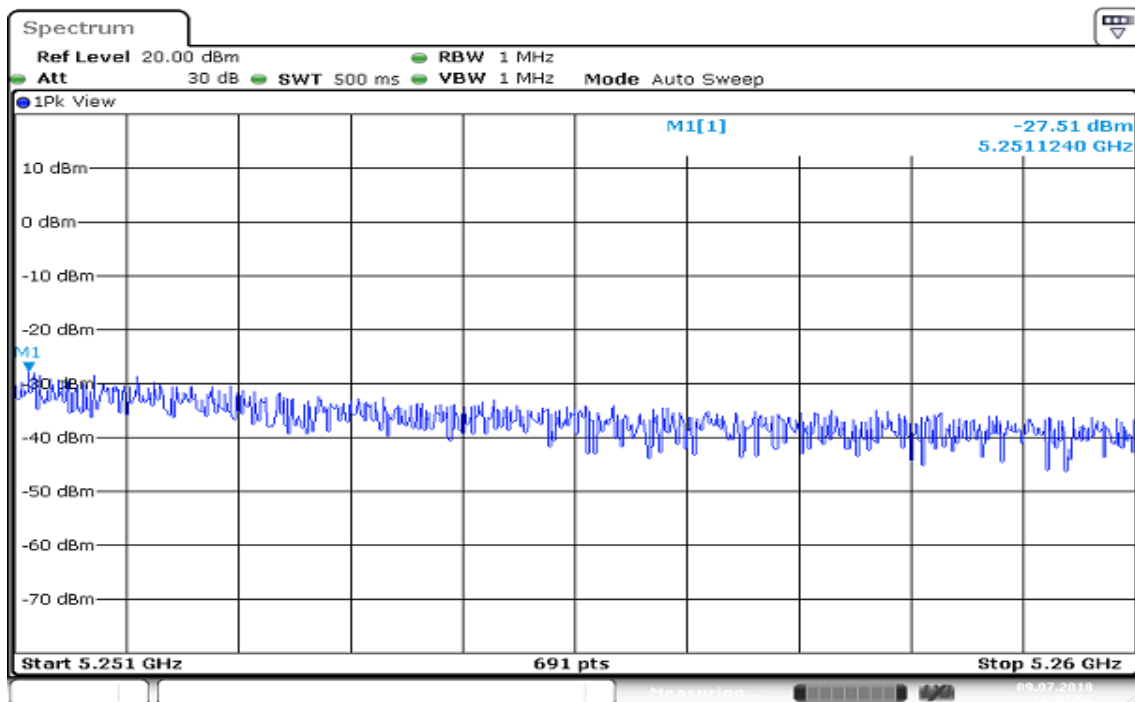
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Rev.: 01

Ant 1 / CH Mid(W52)



Ant 1 / CH High(W52)



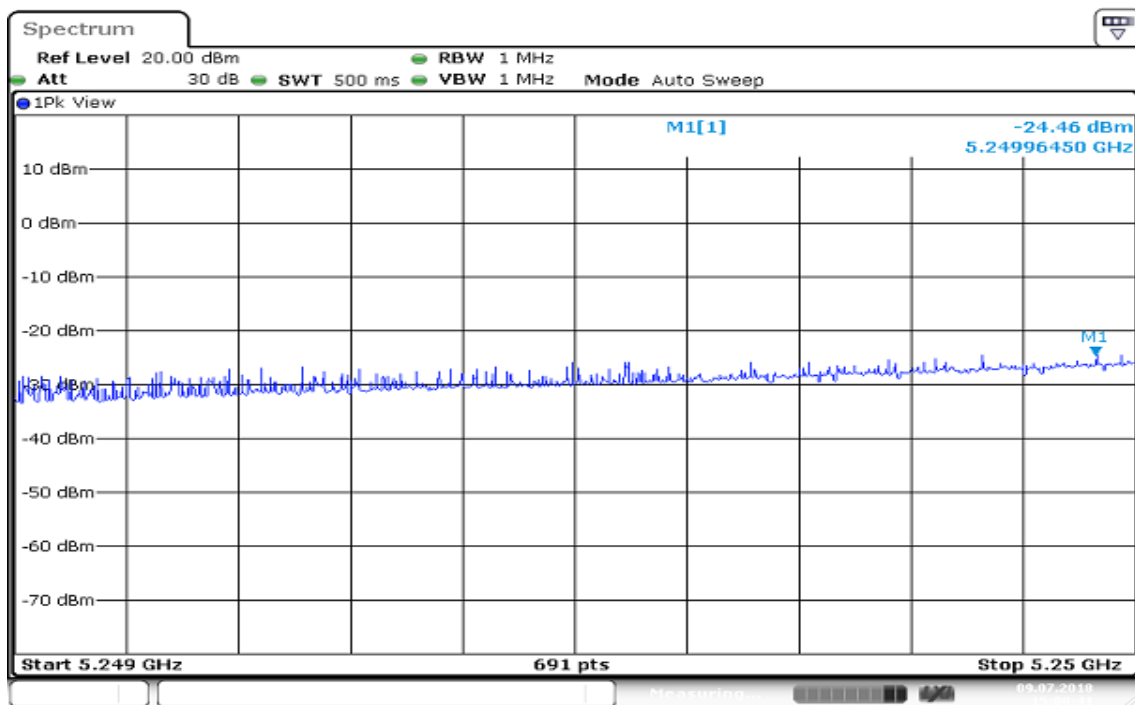


Report No.: T180627D12-RJ3

TEST RESULT**5.249GHz ~ 5.25GHz****(W53)**

(4) 5249MHz~5250MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5249.9645	-24.46	16.92	176.19760	Normal Voltage
5300.0000	5249.9602	-43.20	16.92	2.35505	
5320.0000	5249.6852	-44.43	16.92	1.77419	

TEST PLOTS**Ant 1 / CH Low(W53)**

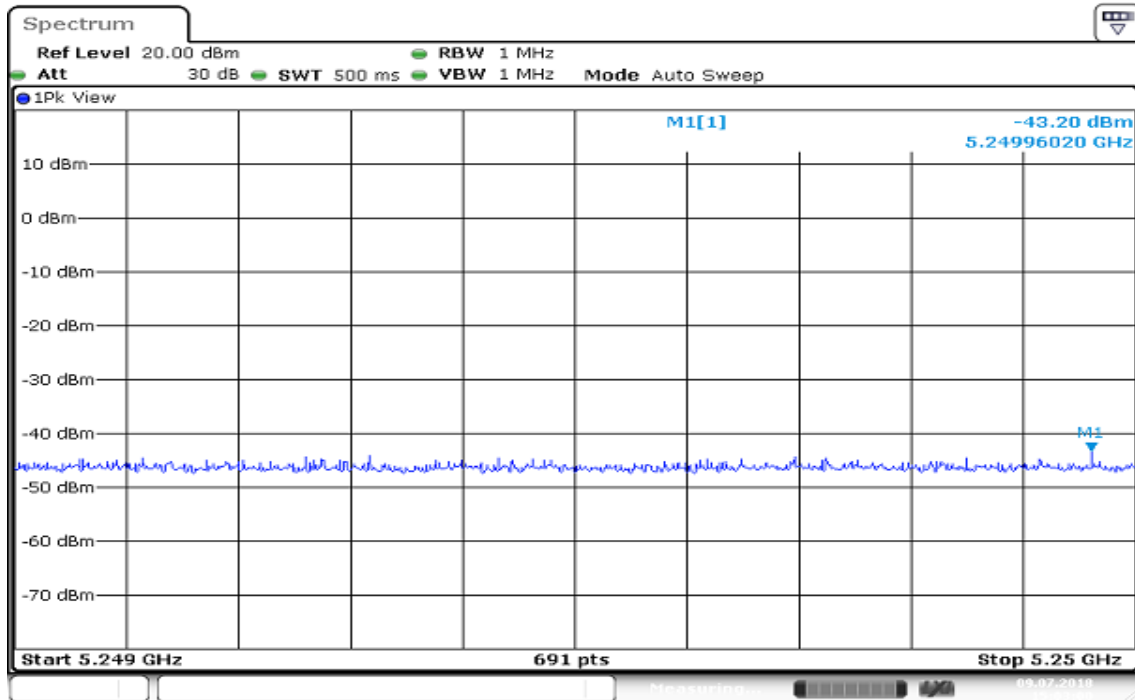
Date: 9 JUL 2018 15:00:42

Report No.: T180627D12-RJ3

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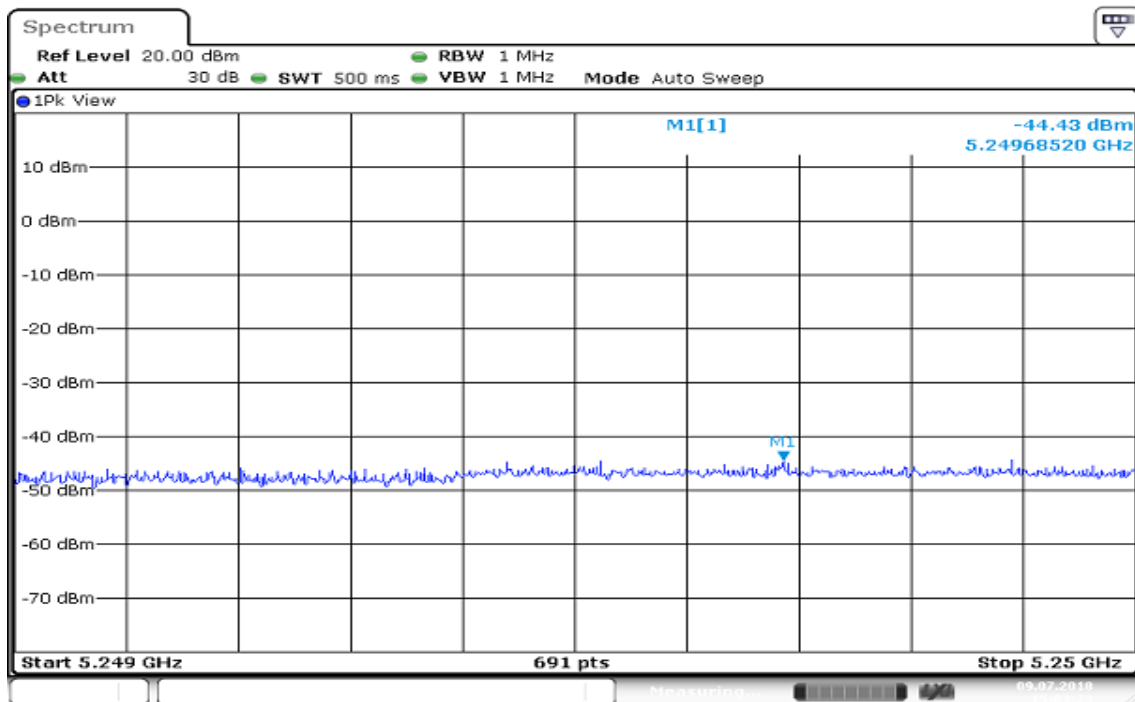
Rev.: 01

Ant 1 / CH Mid(W53)



Date: 9.JUL.2018 15:03:00

Ant 1 / CH High(W53)



Date: 9.JUL.2018 15:09:23

Report No.: T180627D12-RJ3

TEST RESULT

5.74GHz ~ 5.745GHz

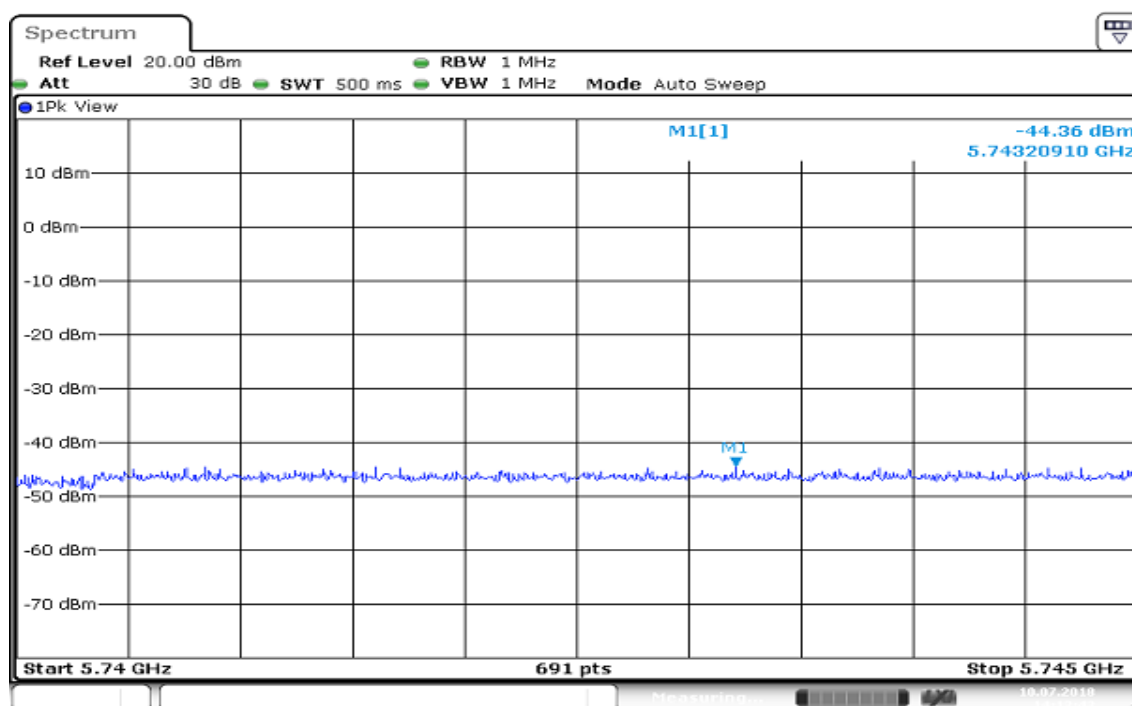
(W56)

(4) 5740MHz~5745MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5743.2091	-44.36	10.92	0.45290	Normal Voltage
5600.0000	5744.4175	-43.93	10.92	0.50003	
5700.0000	5740.8285	-39.69	10.92	1.32739	

TEST PLOTS

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 14:13:44

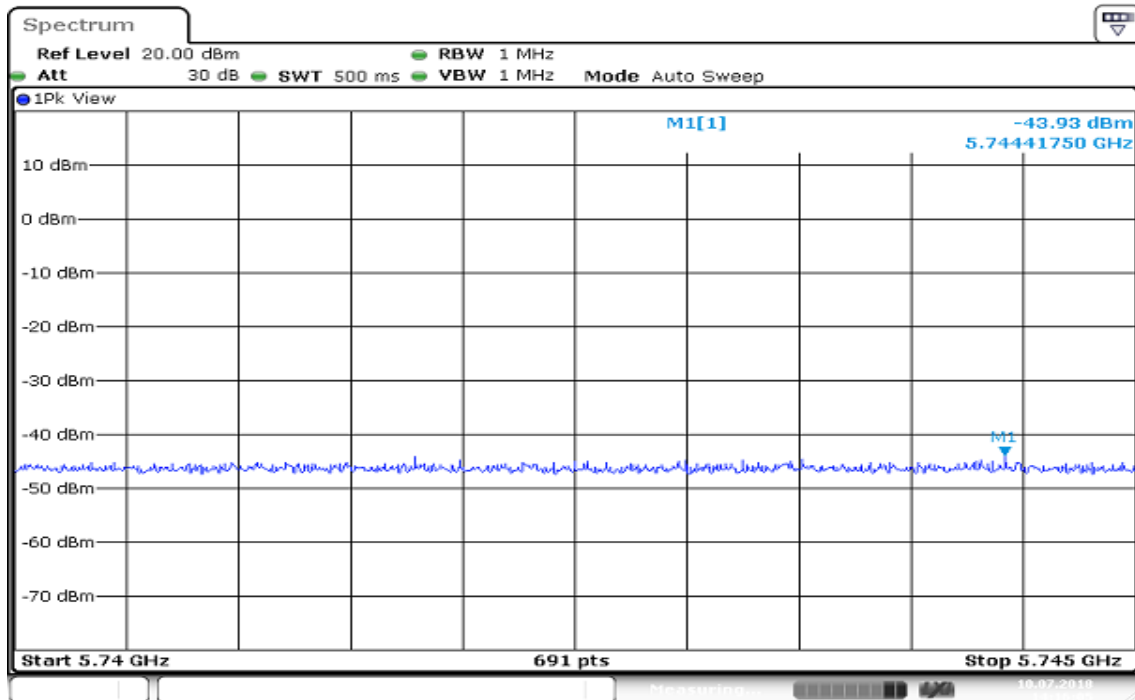


Report No.: T180627D12-RJ3

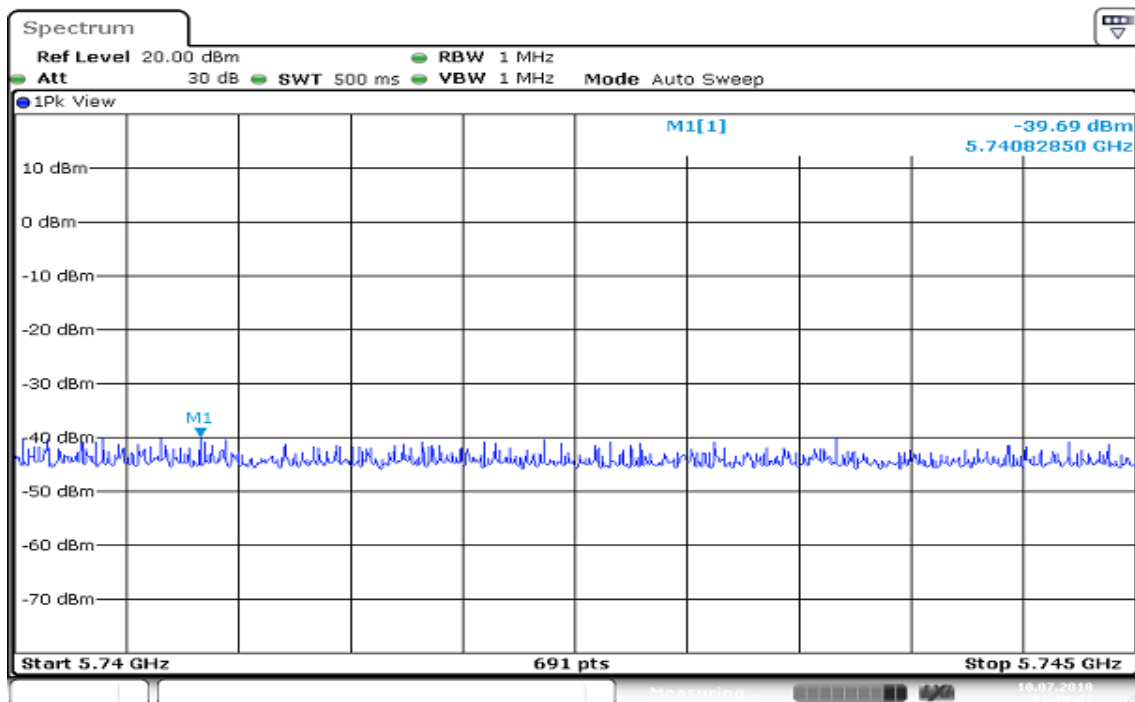
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Rev.: 01

Ant 1 / CH Mid(W56)



Ant 1 / CH High(W56)



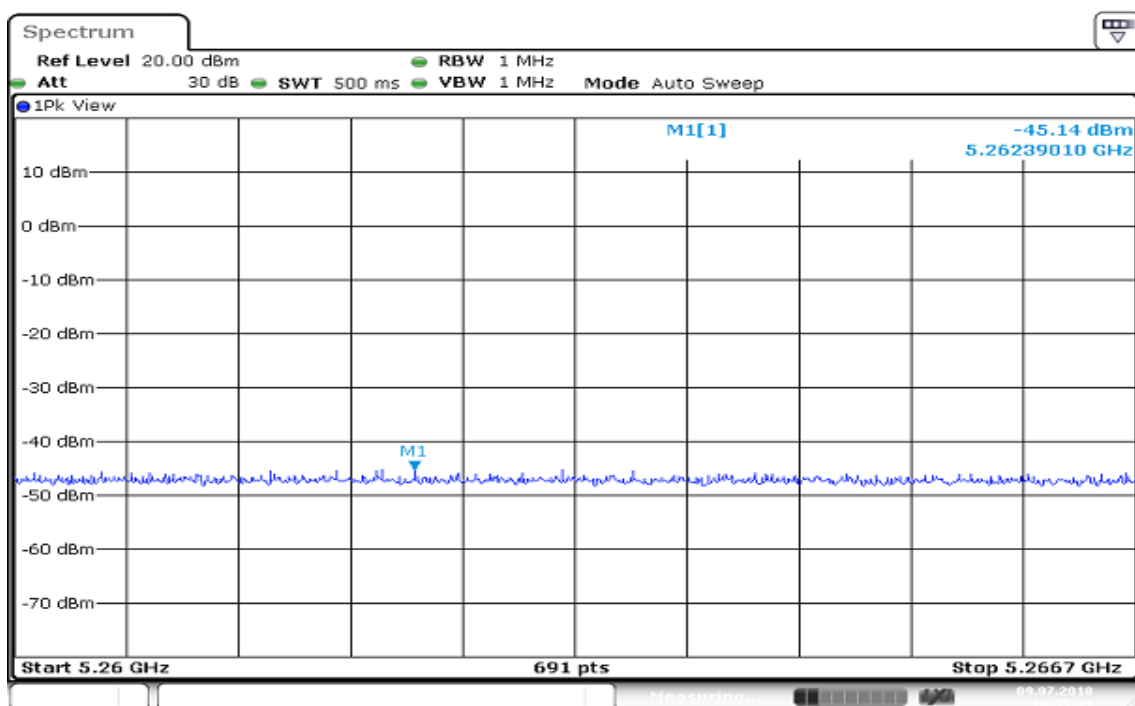


Report No.: T180627D12-RJ3

TEST RESULT**5.26GHz ~ 5.2667GHz****(W52)**

(5) 5260MHz~5.2667MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5262.3901	-45.14	16.92	1.50661	Normal Voltage
5200.0000	5264.9596	-45.03	16.92	1.54525	
5240.0000	5260.4121	-36.76	16.92	10.37528	

TEST PLOTS**Ant 1 / CH Low(W52)**

Date: 9 JUL 2018 14:45:42

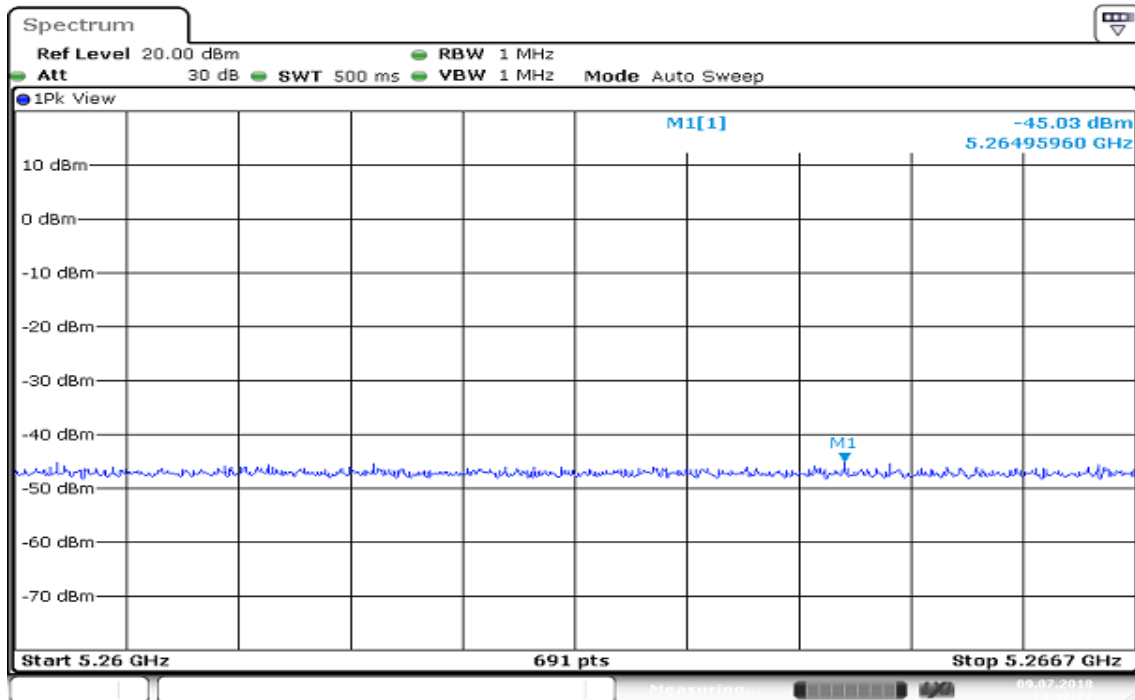


Report No.: T180627D12-RJ3

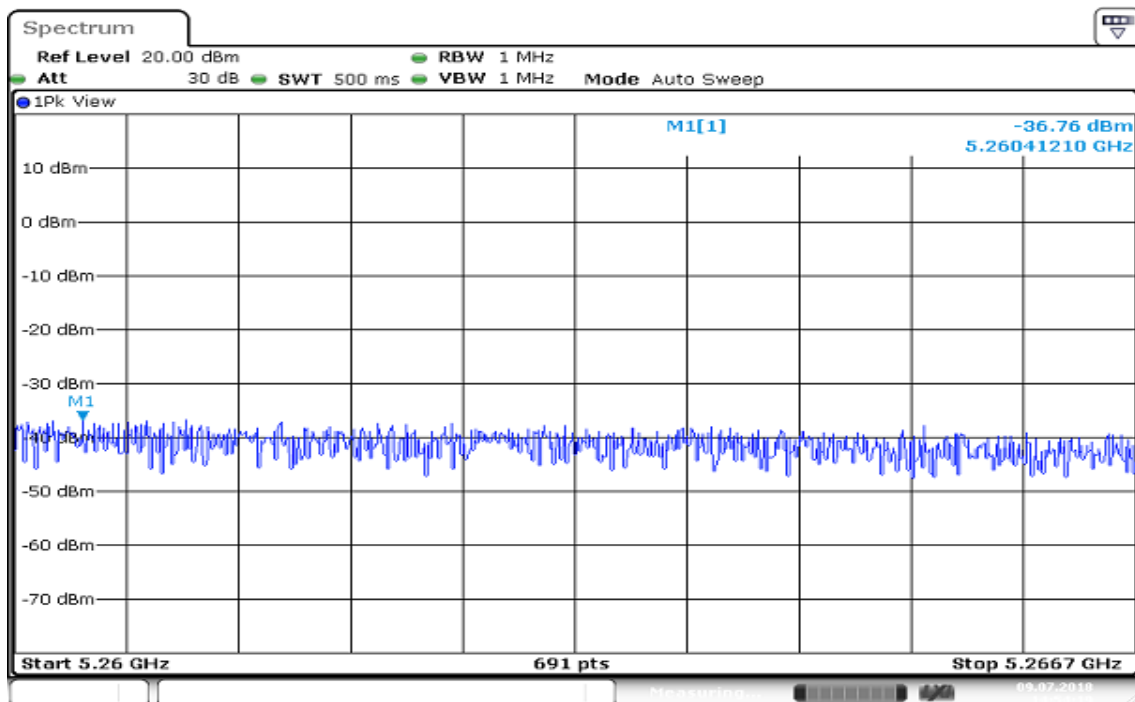
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Rev.: 01

Ant 1 / CH Mid(W52)



Ant 1 / CH High(W52)



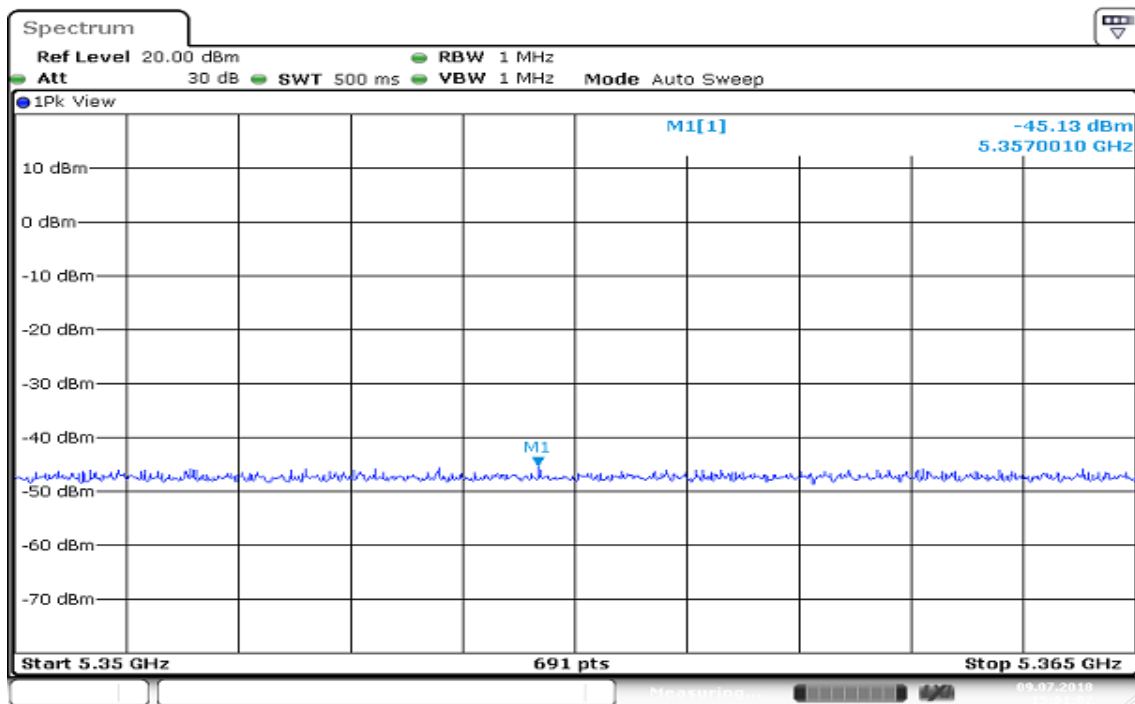


Report No.: T180627D12-RJ3

TEST RESULT**5.35GHz ~ 5.365GHz****(W53)**

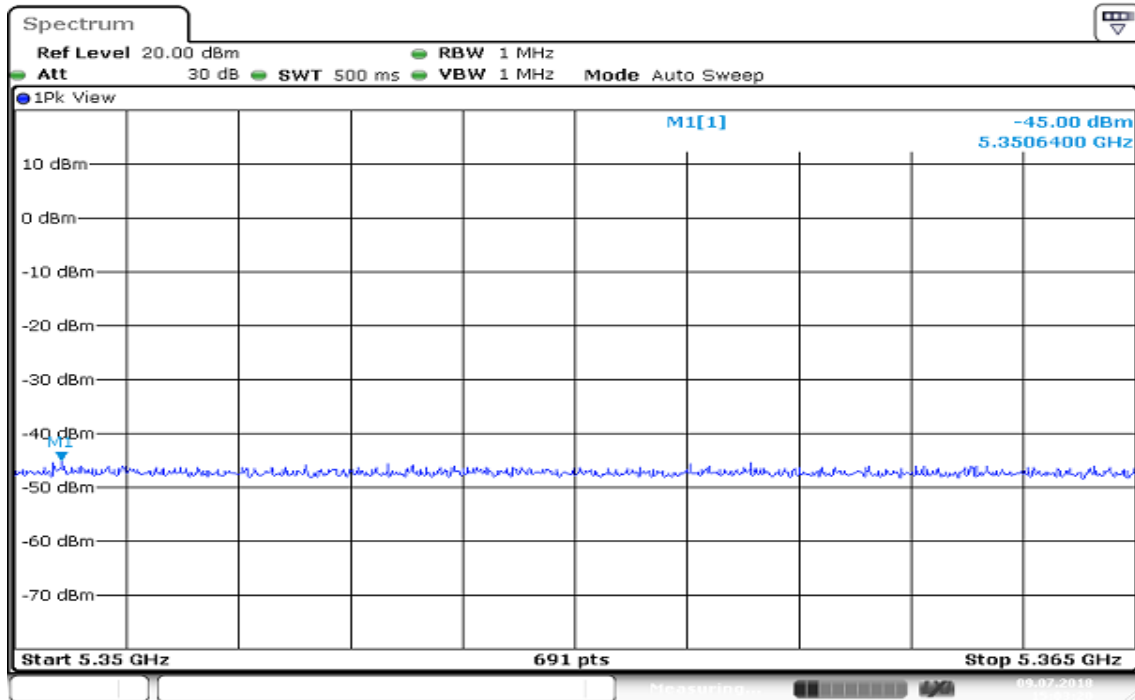
(5) 5350MHz~5365MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5357.0010	-45.13	16.92	1.51008	Normal Voltage
5300.0000	5350.6400	-45.00	16.92	1.55597	
5320.0000	5350.8360	-56.88	16.92	0.10093	

TEST PLOTS**Ant 1 / CH Low(W53)**



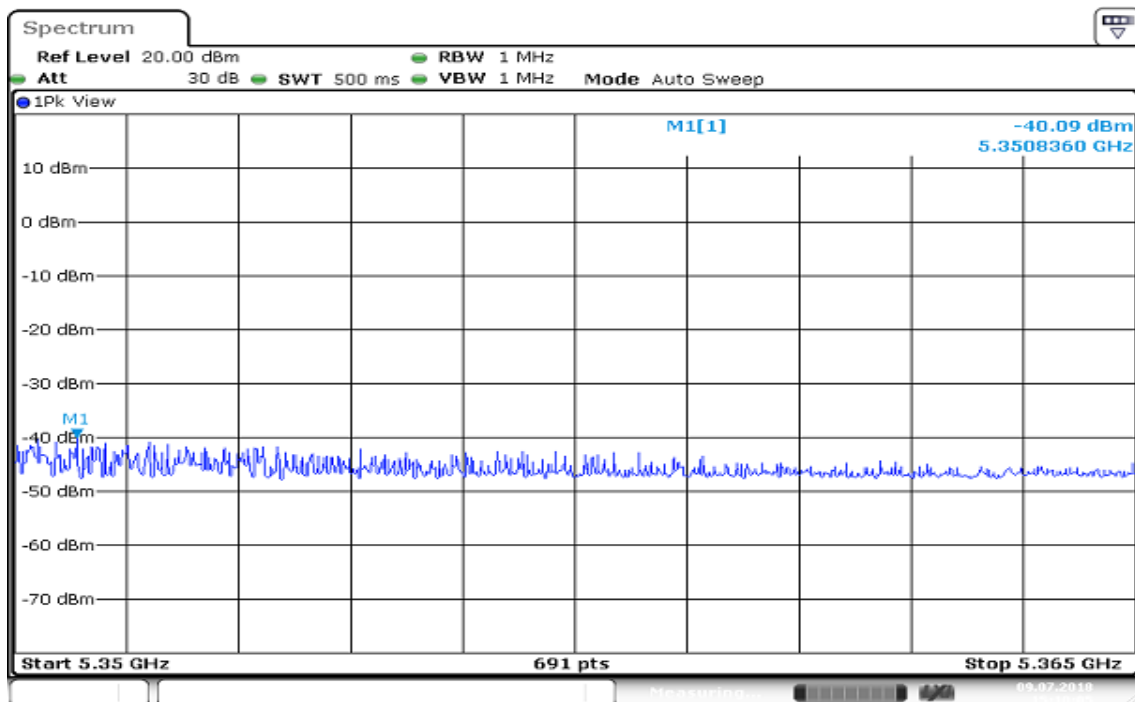
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W53)

Date: 9 JUL 2018 15:09:20

Ant 1 / CH High(W53)

(Search)



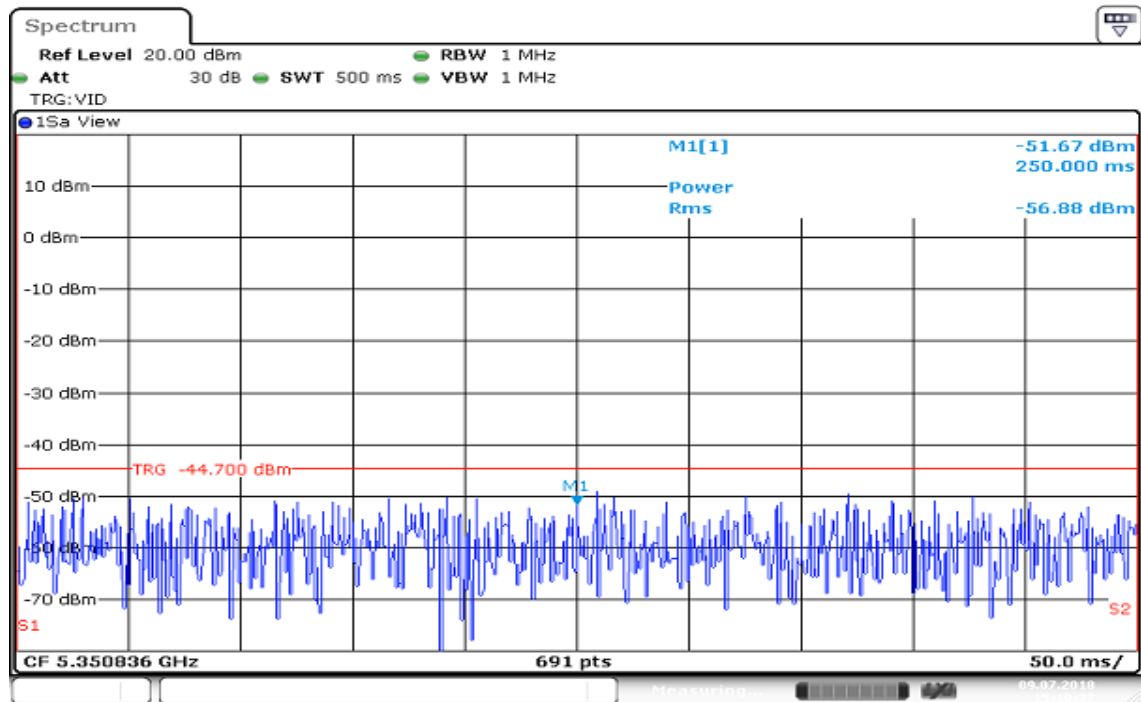
Date: 9 JUL 2018 15:10:05

Report No.: T180627D12-RJ3

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(Detail)



Date: 9 JUL 2018 15:10:37

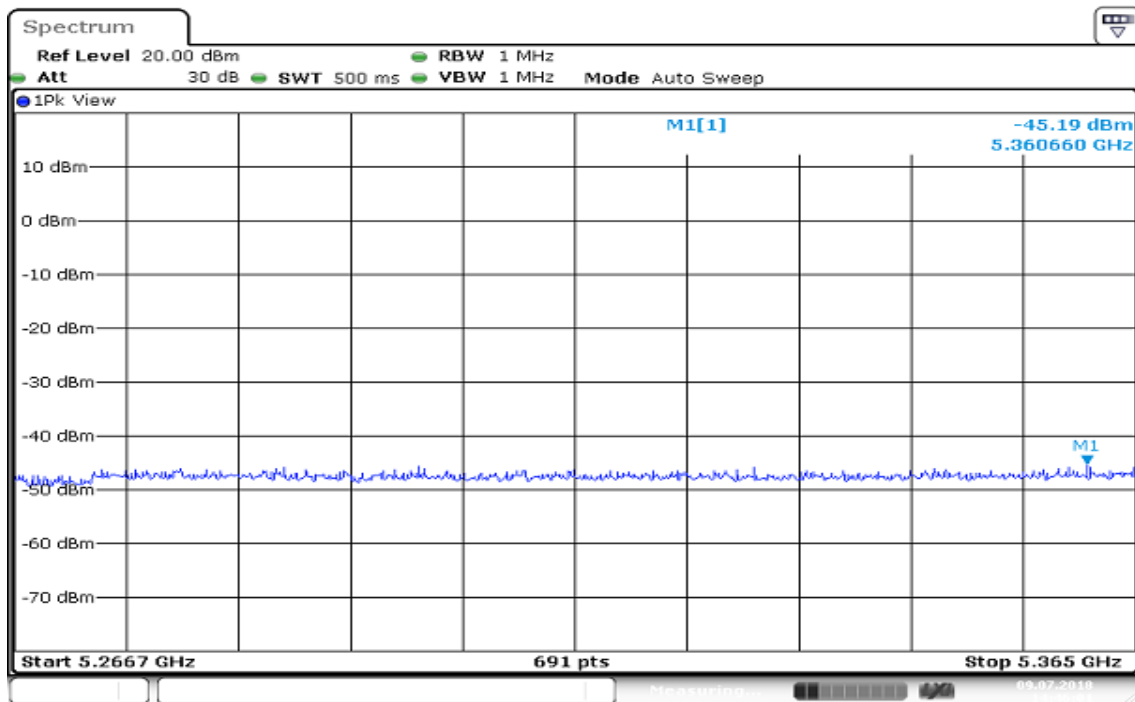


Report No.: T180627D12-RJ3

TEST RESULT**5.2667GHz ~ 5.365GHz****(W52)**

(6) 5.2667MHz~5365MHz

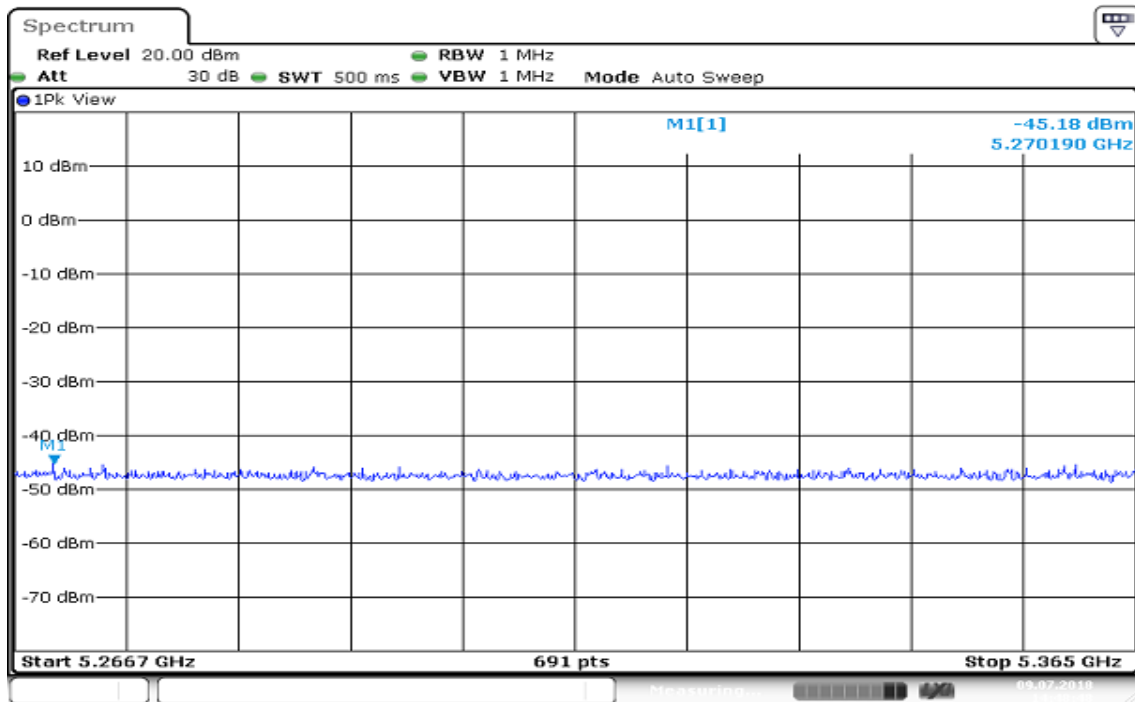
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5360.6600	-45.19	16.92	1.48936	Normal Voltage
5200.0000	5270.1900	-45.18	16.92	1.49279	
5240.0000	5269.1900	-52.16	16.92	0.29923	

TEST PLOTS**Ant 1 / CH Low(W52)**

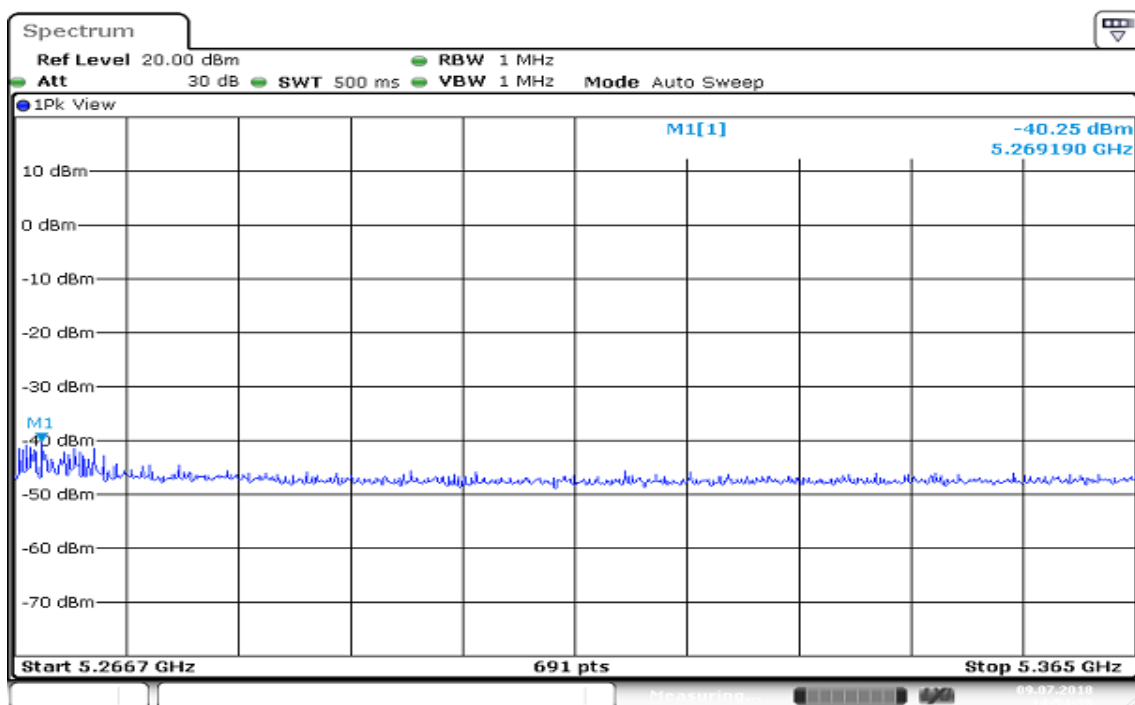
Date: 9 JUL 2018 14:46:02



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)

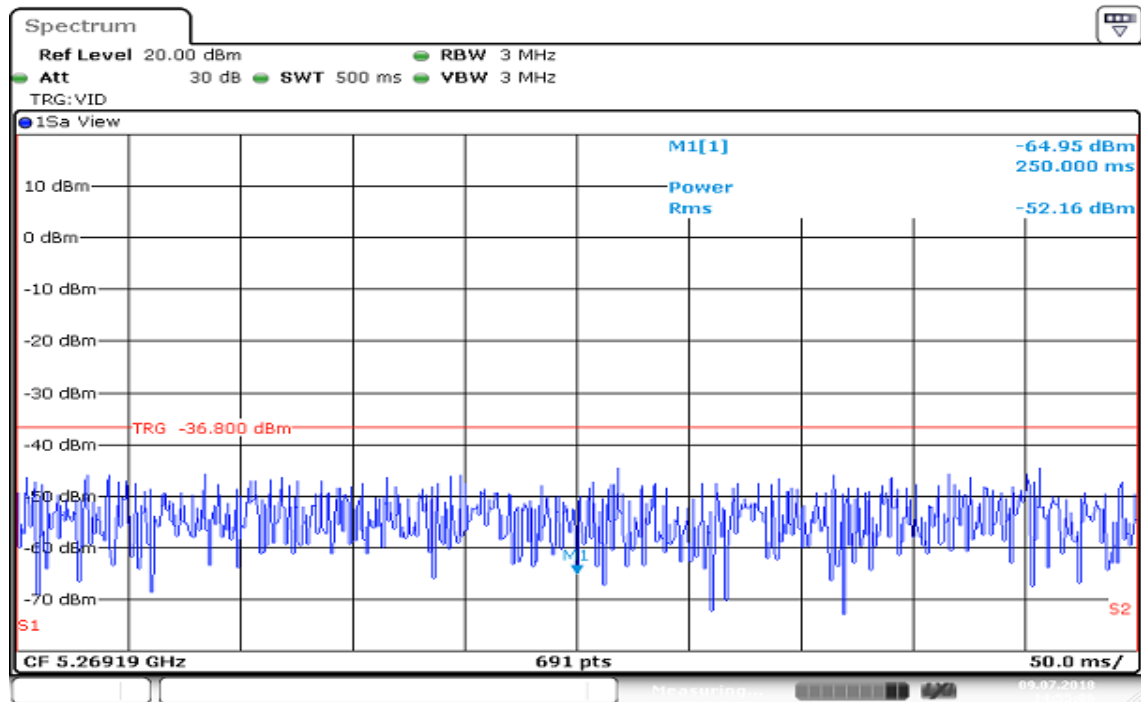
Date: 9 JUL 2018 14:48:49

Ant 1 / CH High(W52)**(Search)**

Date: 9 JUL 2018 14:54:38



(Detail)



Date: 9 JUL 2018 14:55:06



Report No.: T180627D12-RJ3

6.7 ADJACENT CHANNEL LEAKAGE POWER

TEST RESULT

(W52 & W53)

Test Frequency	MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320	
Adjacent Channel Leakage Power	-20MHz	dB	36.10	35.98	35.77						Limit \geq 25dB (18MHz)
	-20MHz	dB	35.31	35.39	35.79						Limit \geq 25dB (18MHz)
	-40MHz	dB	40.37	40.70	41.36						Limit \geq 40dB (18MHz)
	+40MHz	dB	40.18	41.20	41.74						Limit \geq 40dB (18MHz)

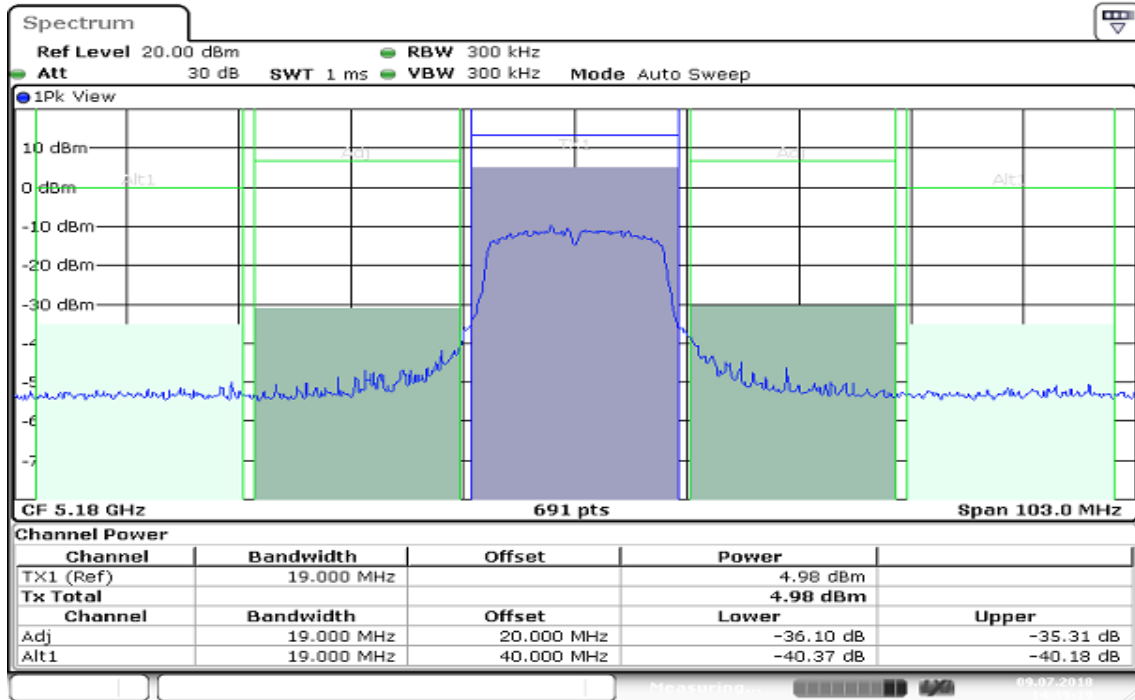
(W56)

Test Frequency	MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700	
Adjacent Channel Leakage Power	-20MHz	dB	34.52	33.18	35.24						Limit \geq 25dB (18MHz)
	-20MHz	dB	32.14	32.17	34.95						Limit \geq 25dB (18MHz)
	-40MHz	dB	42.13	42.15	40.50						Limit \geq 40dB (18MHz)
	+40MHz	dB	41.87	42.46	40.75						Limit \geq 40dB (18MHz)

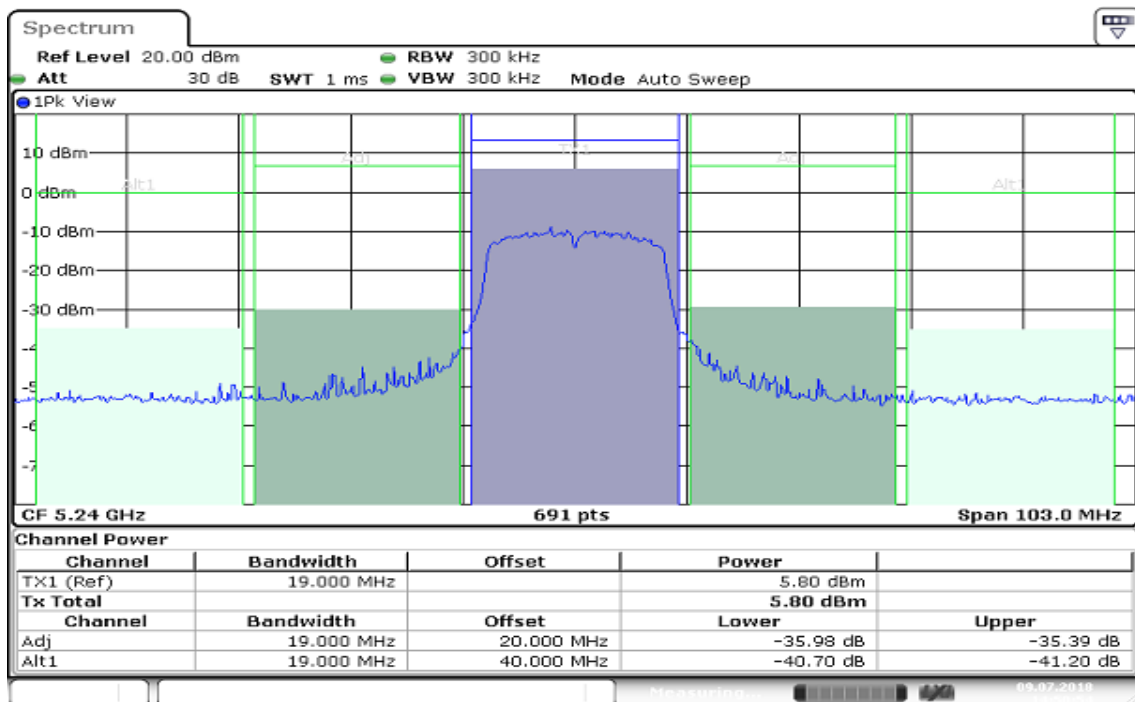
Report No.: T180627D12-RJ3

TEST PLOTS

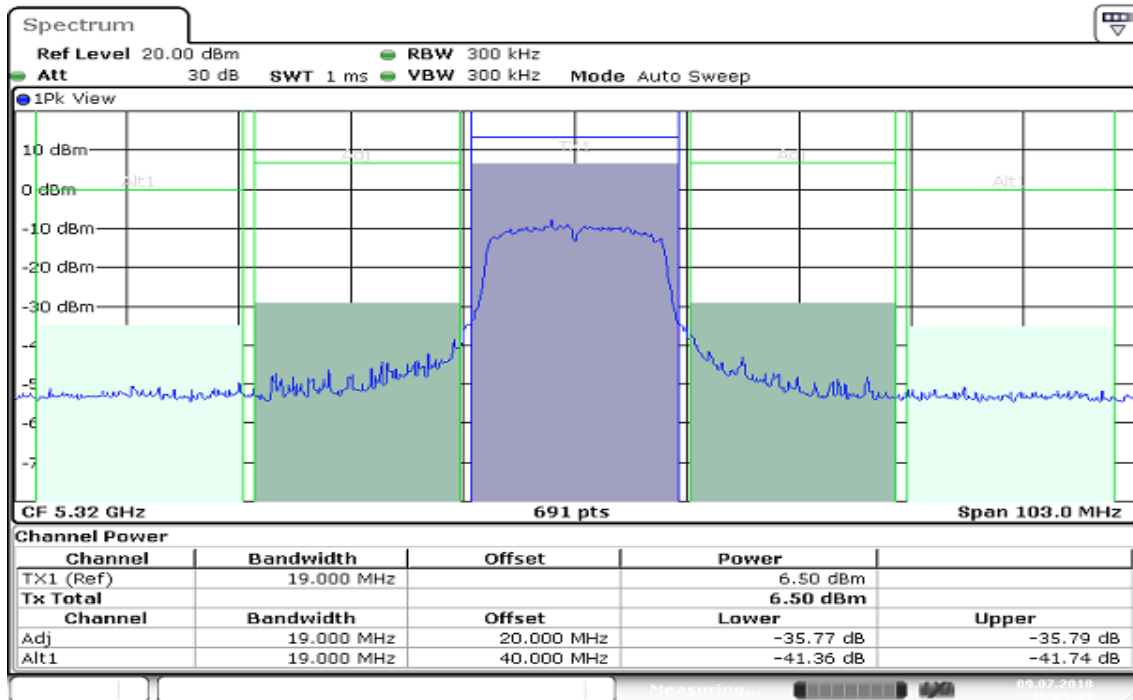
Ant 1 / CH Low(W52 & W53)



Ant 1 / CH Mid(W52 & W53)

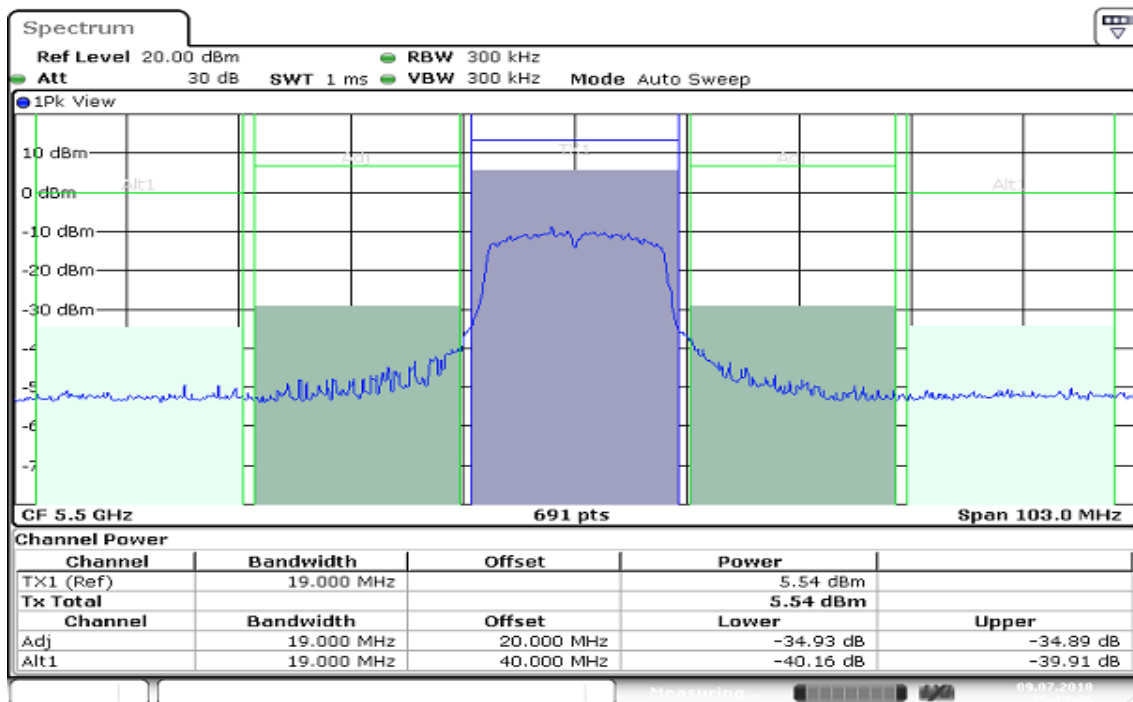


Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 15:05:24

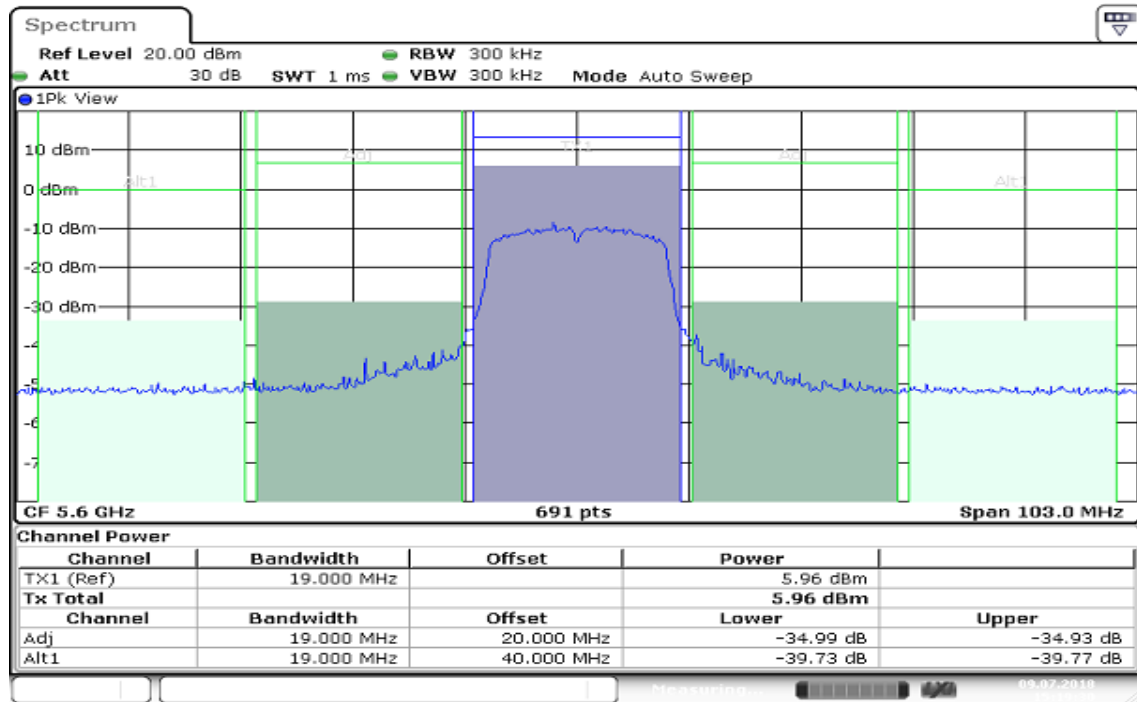
Ant 1 / CH Low(W56)



Date: 9 JUL 2018 15:13:47

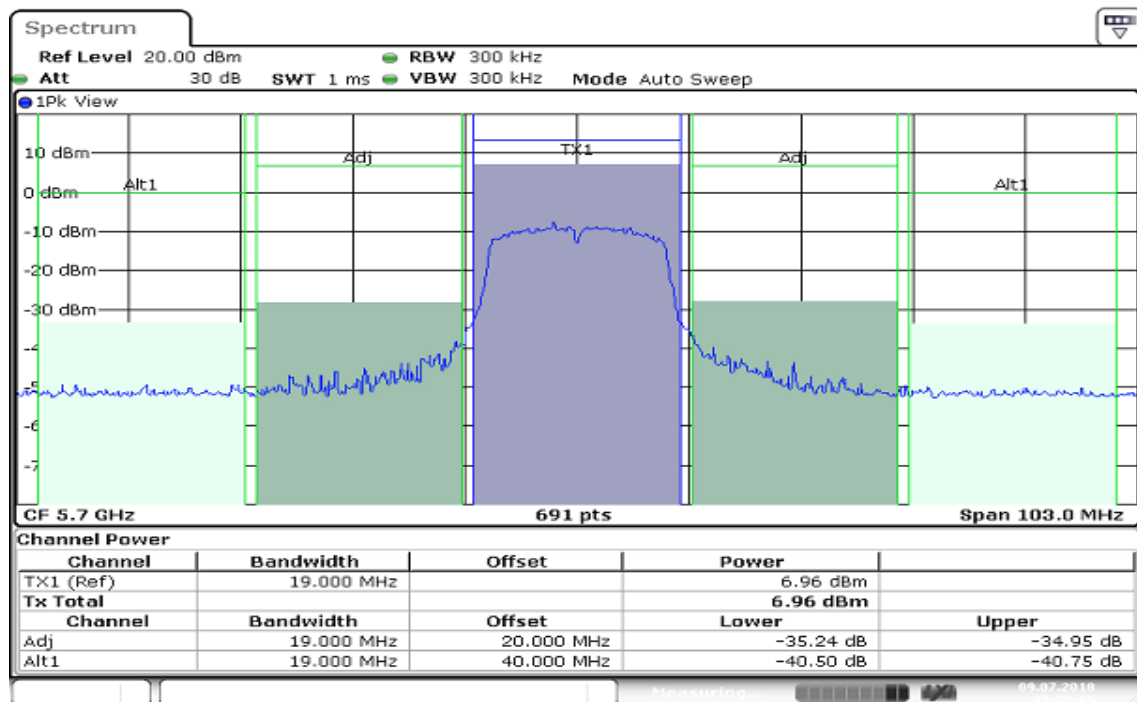
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9 JUL 2018 15:19:30

Ant 1 / CH High(W56)



Date: 9 JUL 2018 15:25:05

Report No.: T180627D12-RJ3

7 TEST RESULT FOR IEEE 802.11n HT 20 (W52 & W53 & W56)

7.1 FREQUENCY ERROR

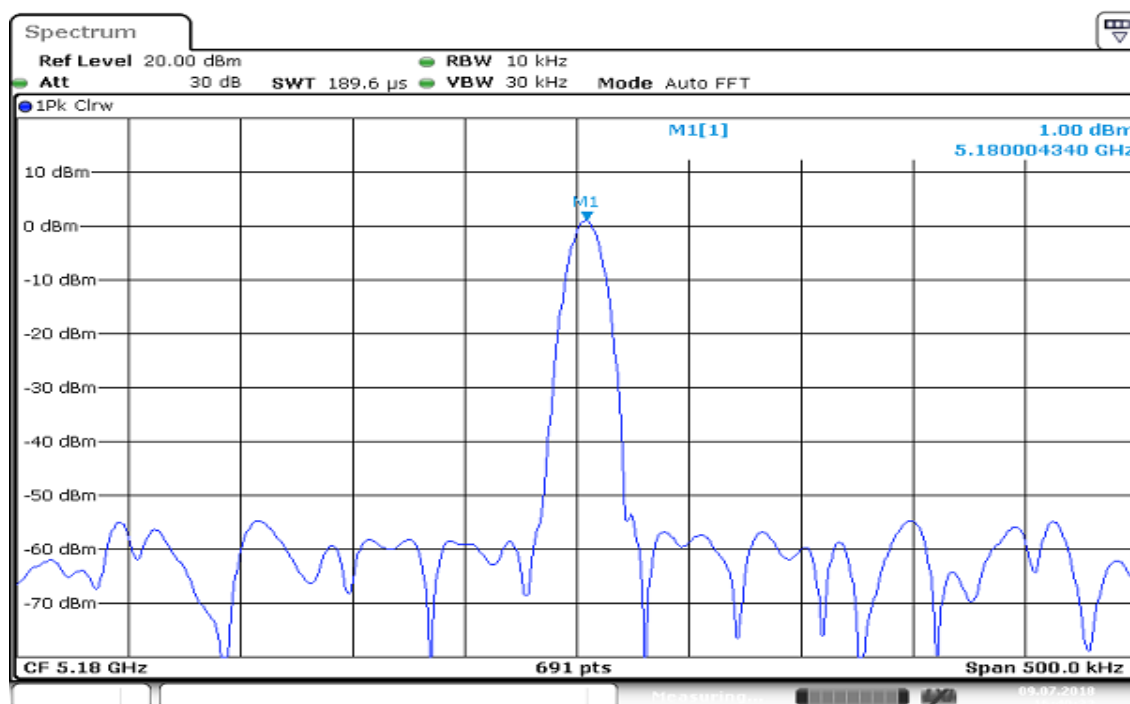
TEST RESULT

(W52 & W53)

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5180.0000	5180.004340	4340	0.8378	Normal Voltage
5240.0000	5240.002890	2890	0.5515	
5320.0000	5320.002170	2170	0.4079	

TEST PLOTS

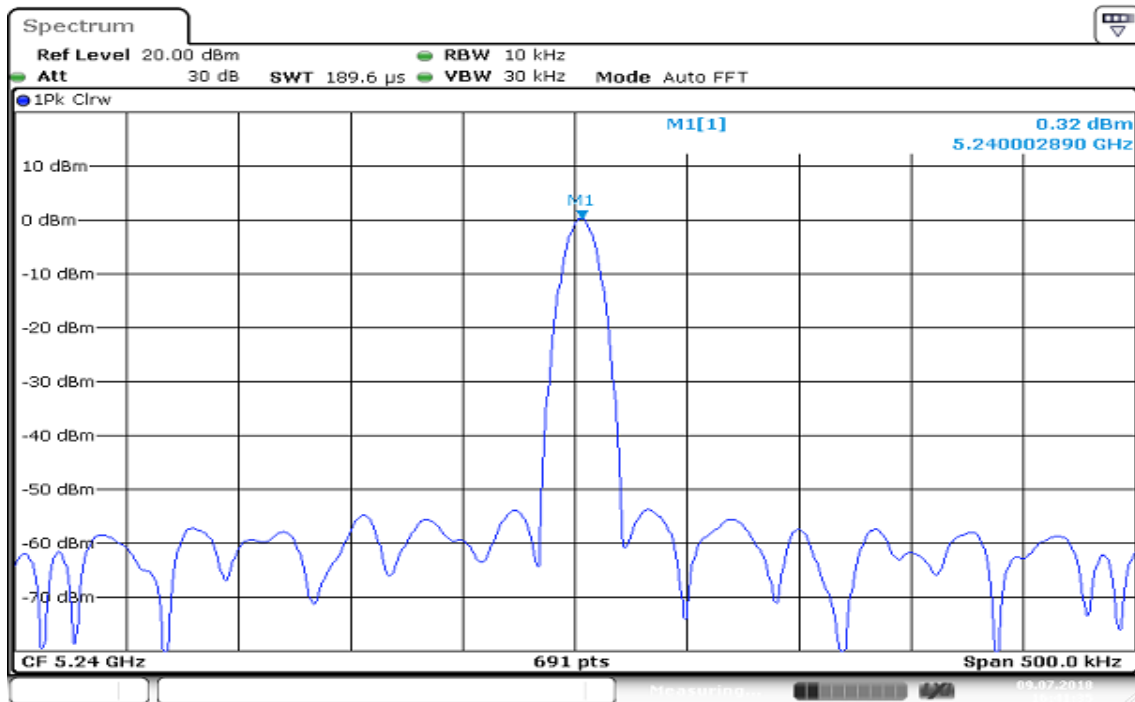
Ant 1 / CH Low(W52 & W53)



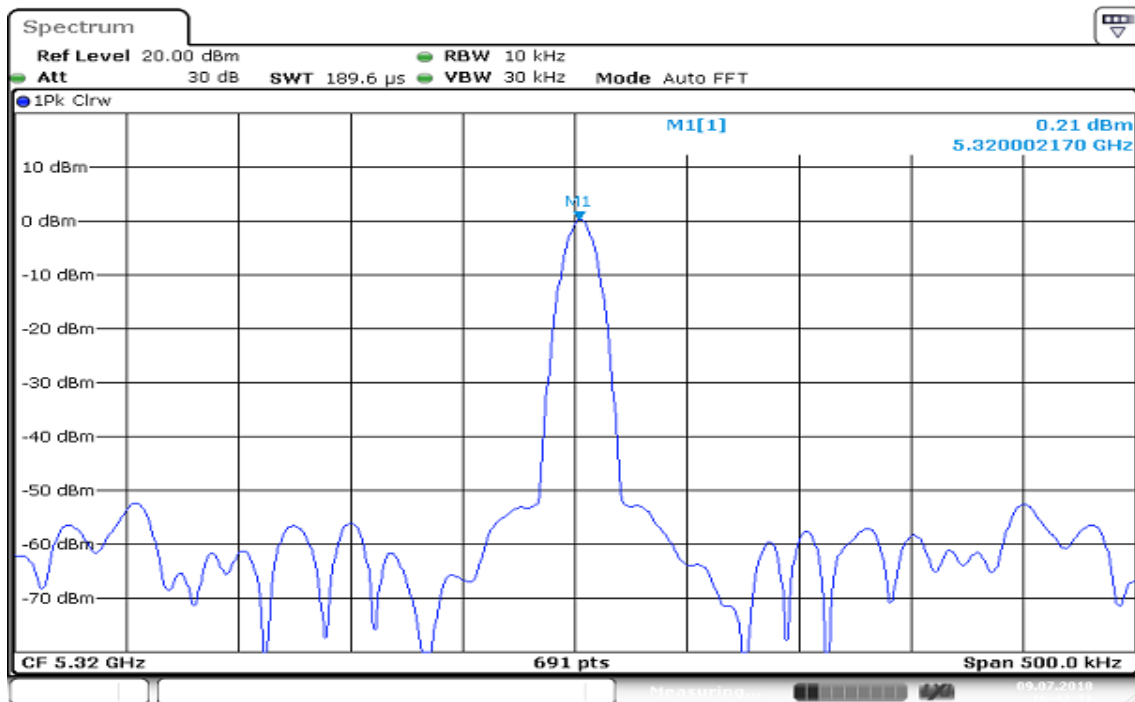
Date: 9 JUL 2018 16:40:34



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)

Date: 9 JUL 2018 16:41:36

Ant 1 / CH High(W52 & W53)

Date: 9 JUL 2018 16:42:31



Report No.: T180627D12-RJ3

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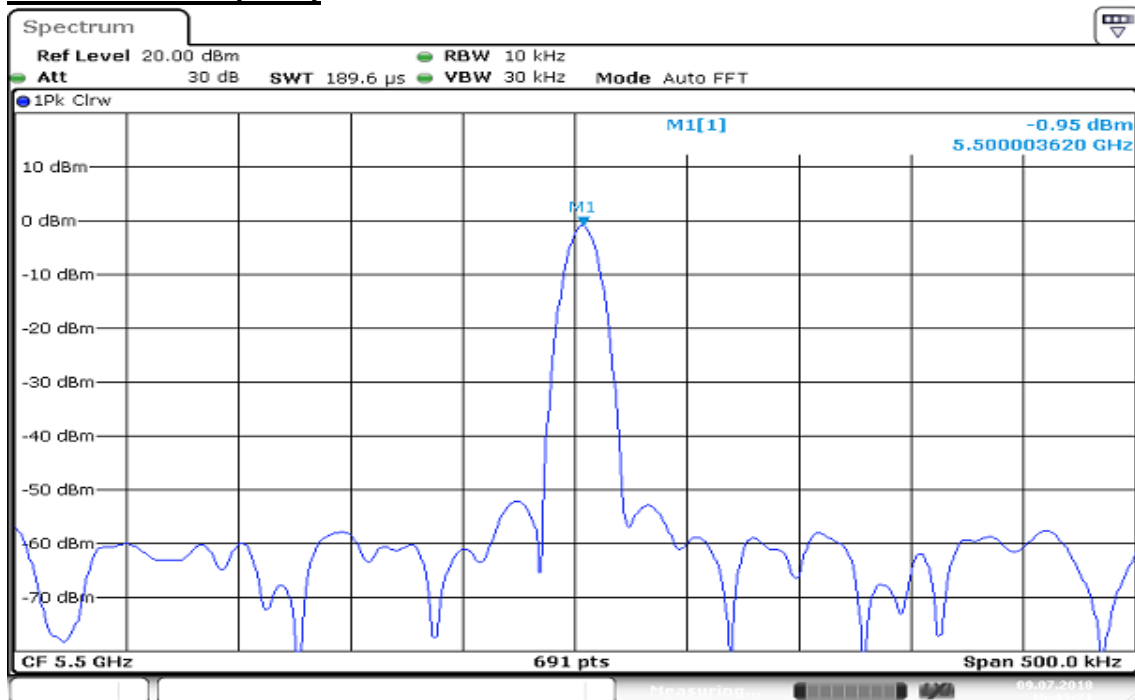
Rev.: 01

TEST RESULT

(W56)

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5500.0000	5500.003620	3620	0.6582	Normal Voltage
5600.0000	5600.003620	3620	0.6464	
5700.0000	5700.005790	5790	1.0158	

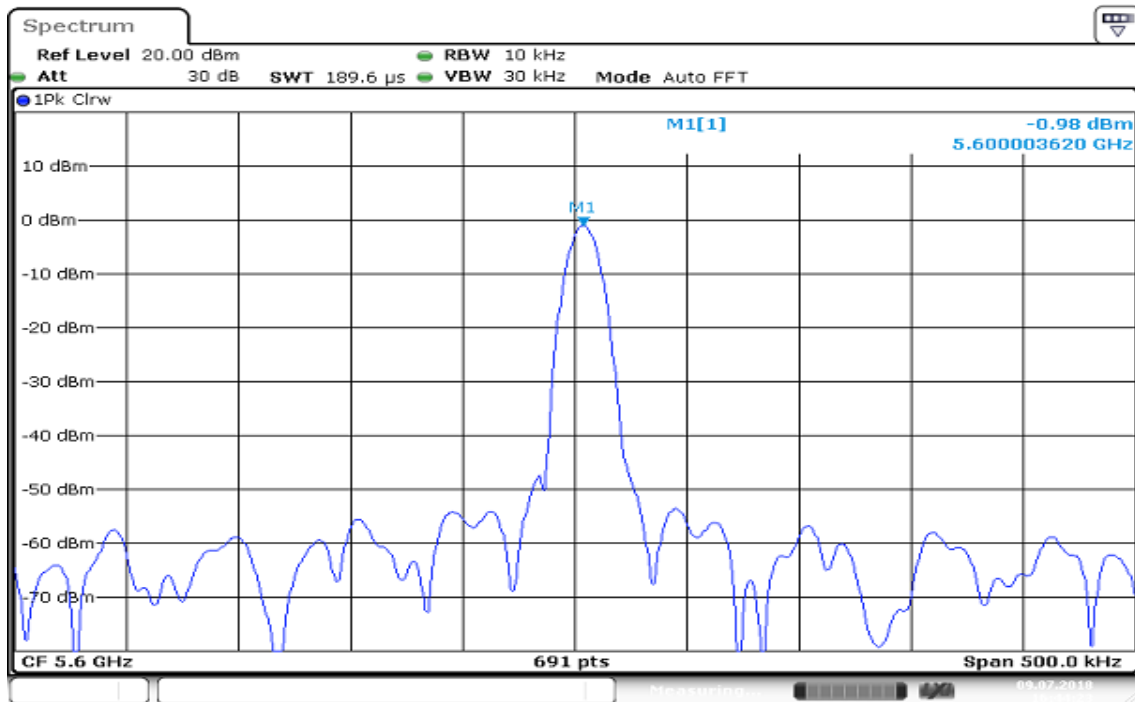
Ant 1 / CH Low(W56)



Date: 9 JUL 2018 16:43:22

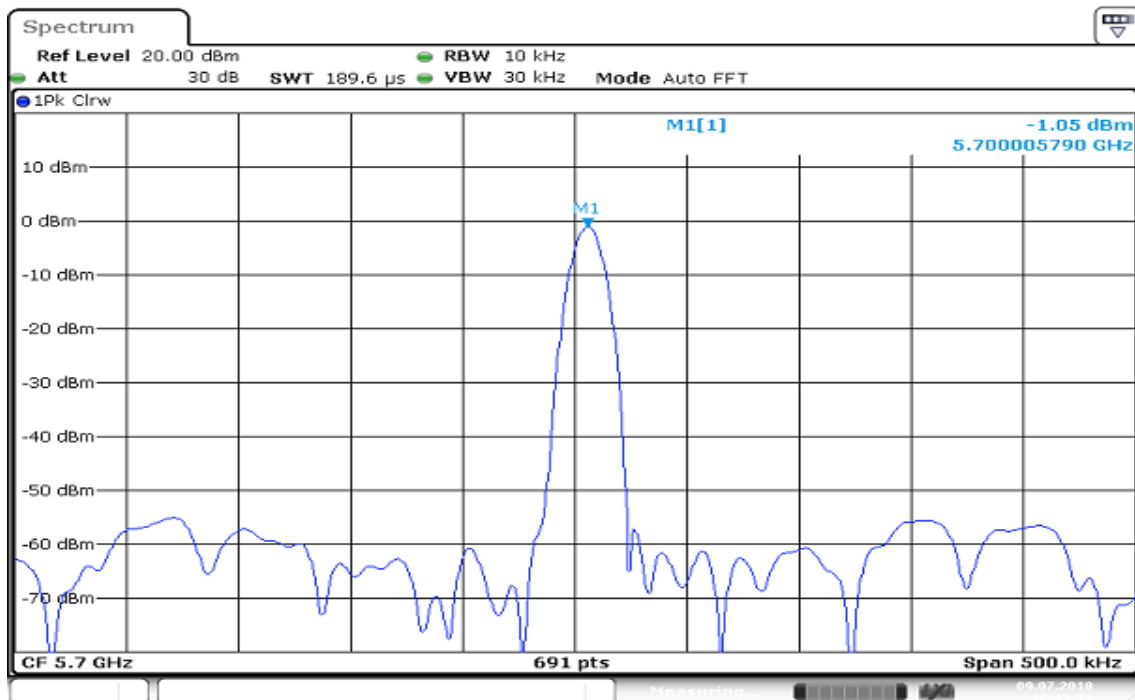
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9 JUL 2018 16:44:24

Ant 1 / CH High(W56)



Date: 9 JUL 2018 16:45:13

Report No.: T180627D12-RJ3

7.2 ANTENNA POWER

TEST RESULT

(W52 & W53)

Antenna 1  6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d B m/MHz)	(mW/MHz)	
5180.0000	-12.97	10.92	-2.05	0.62373	3.95	2.48313	Normal Voltage
5240.0000	-12.33	10.92	-1.41	0.72277	4.59	2.87740	
5320.0000	-12.00	10.92	-1.08	0.77983	4.92	3.10456	

(W56)

Antenna 1  6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Loss (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d B m/MHz)	(mW/MHz)	
5500.0000	-12.80	10.92	-1.88	0.64863	4.12	2.58226	Normal Voltage
5600.0000	-12.17	10.92	-1.25	0.74989	4.75	2.98538	
5700.0000	-11.71	10.92	-0.79	0.83368	5.21	3.31894	

Report No.: T180627D12-RJ3

7.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz ~ 1GHz

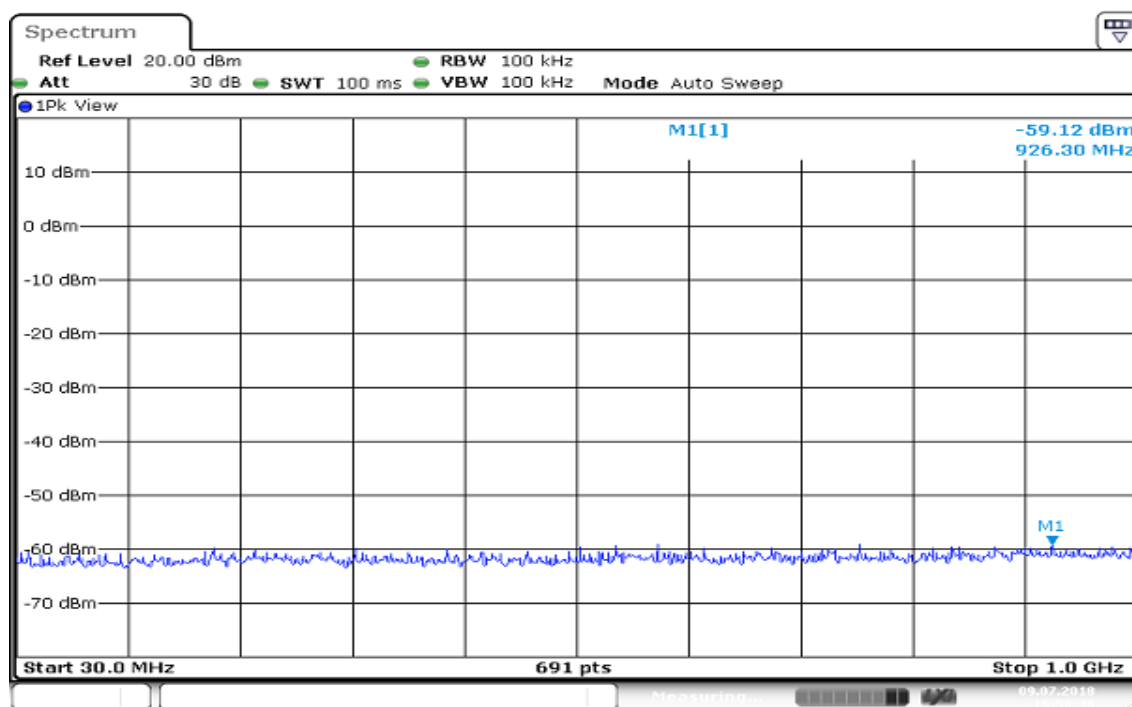
(W52 & W53)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	926.3000	-59.12	10.37	0.01334	Normal Voltage
5240.0000	976.8000	-58.40	10.37	0.01574	
5320.0000	878.6000	-58.96	10.37	0.01384	

TEST PLOTS

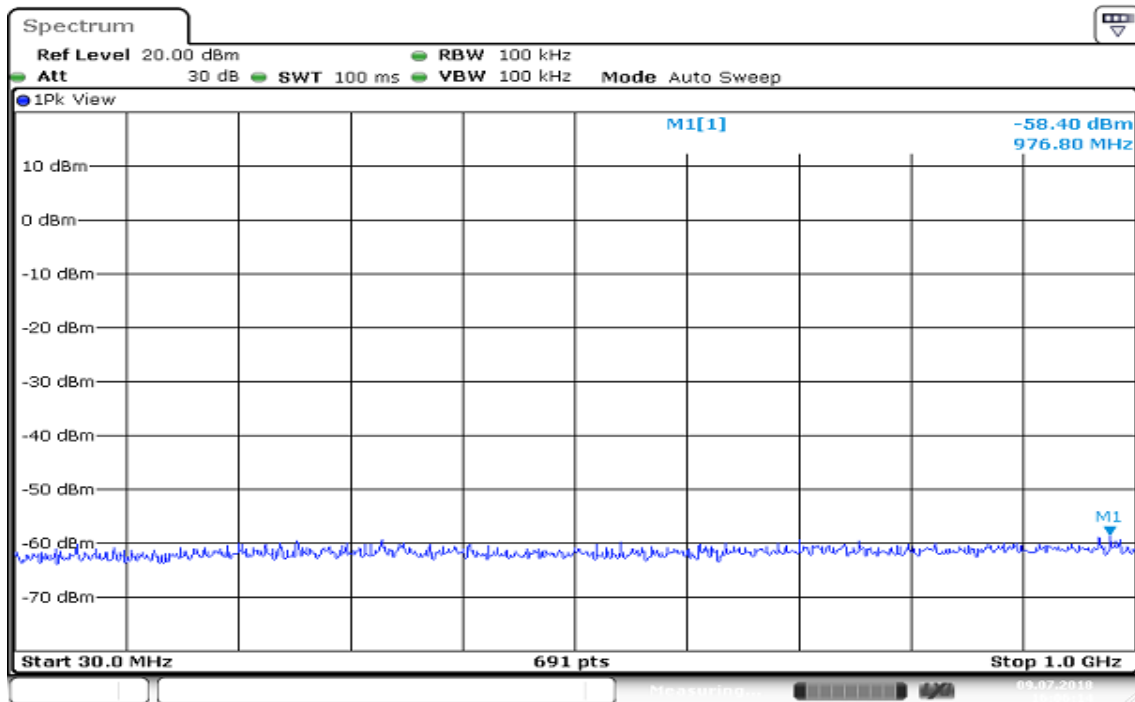
Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 15:58:39

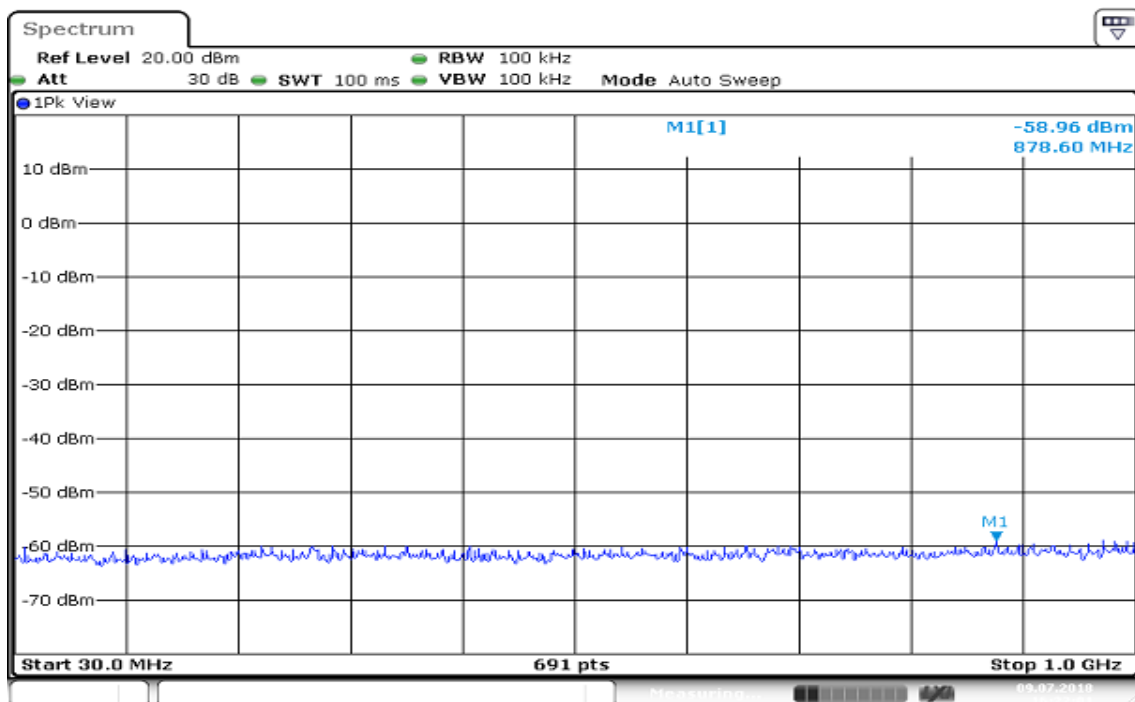
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 16:06:14

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 16:22:01

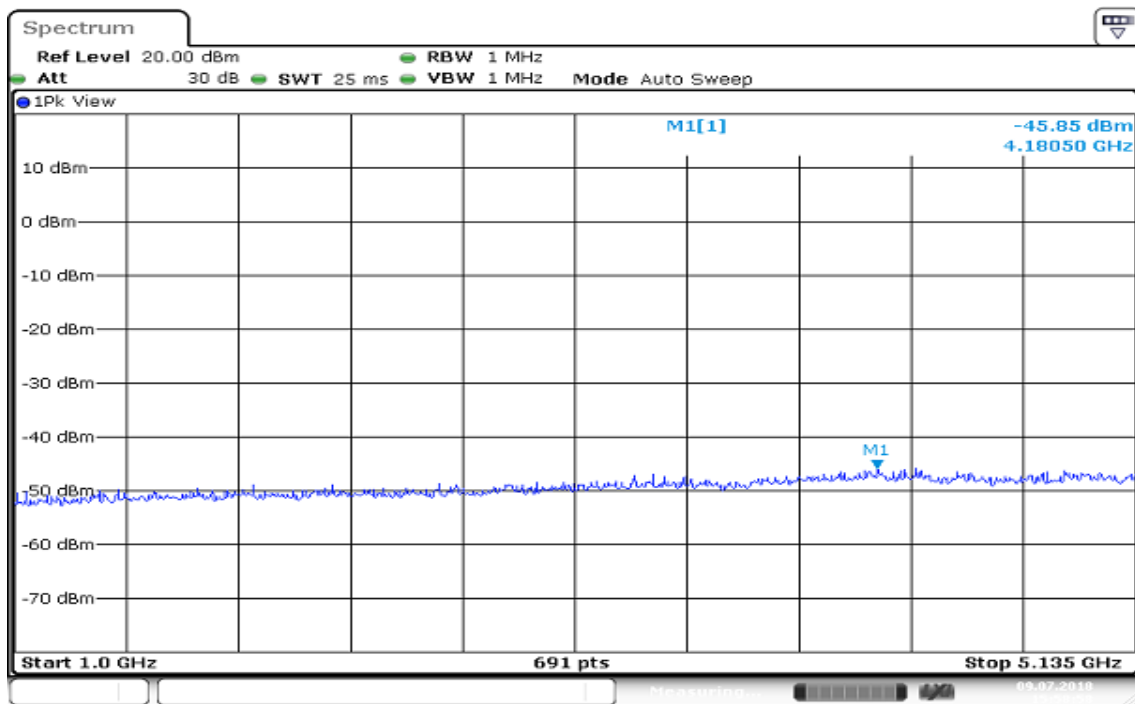


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 5.135GHz****(W52 & W53)**

(2) 1000MHz~less than 5135MHz

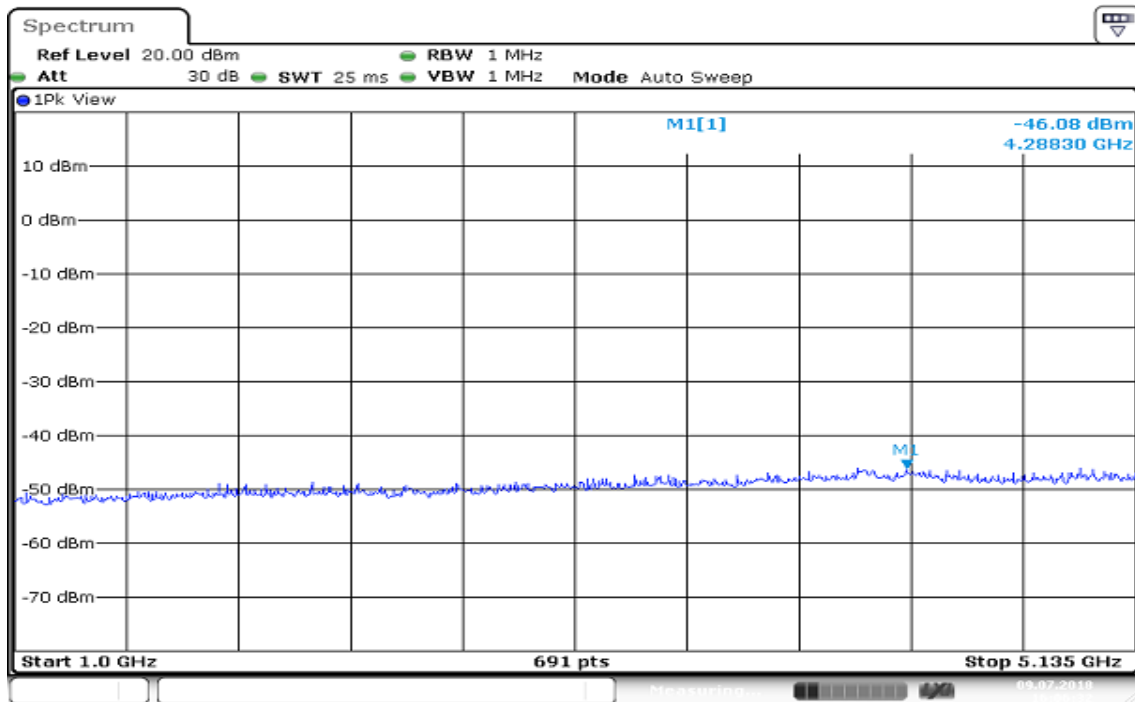
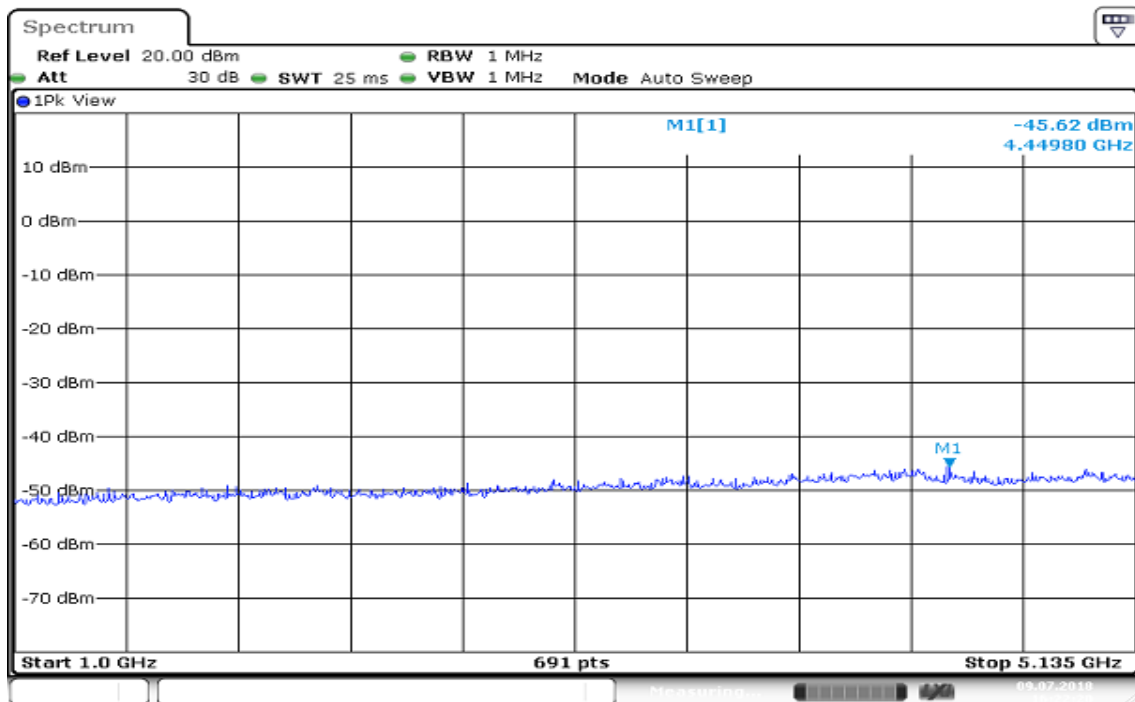
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	4180.5000	-45.85	10.92	0.32137	Normal Voltage
5240.0000	4288.3000	-46.08	10.92	0.30479	
5320.0000	4449.8000	-45.62	10.92	0.33884	

TEST PLOTS**Ant 1 / CH Low(W52 & W53)**

Date: 9 JUL 2018 15:58:58



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)**Ant 1 / CH High(W52 & W53)**

Report No.: T180627D12-RJ3

TEST RESULT

5.365GHz ~ 26GHz

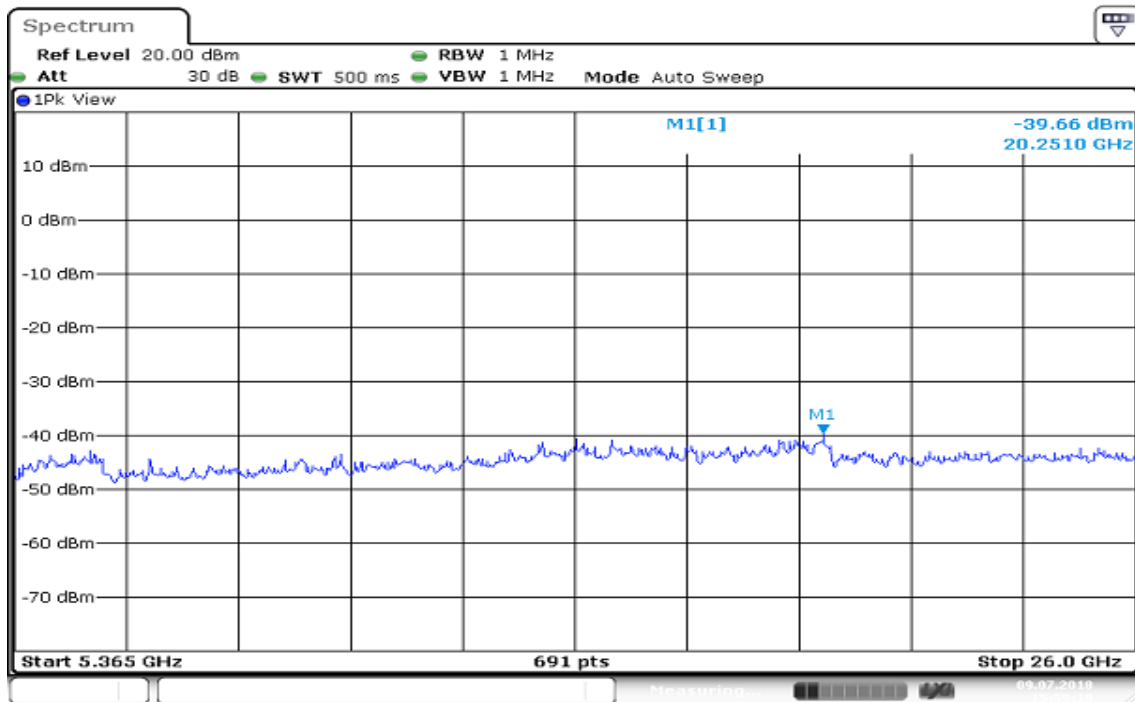
(W52 & W53)

(3) 5365MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	20251.0000	-39.66	10.92	1.33660	Normal Voltage
5240.0000	20222.0000	-40.30	10.92	1.15345	
5320.0000	20251.0000	-39.34	10.92	1.43880	

TEST PLOTS

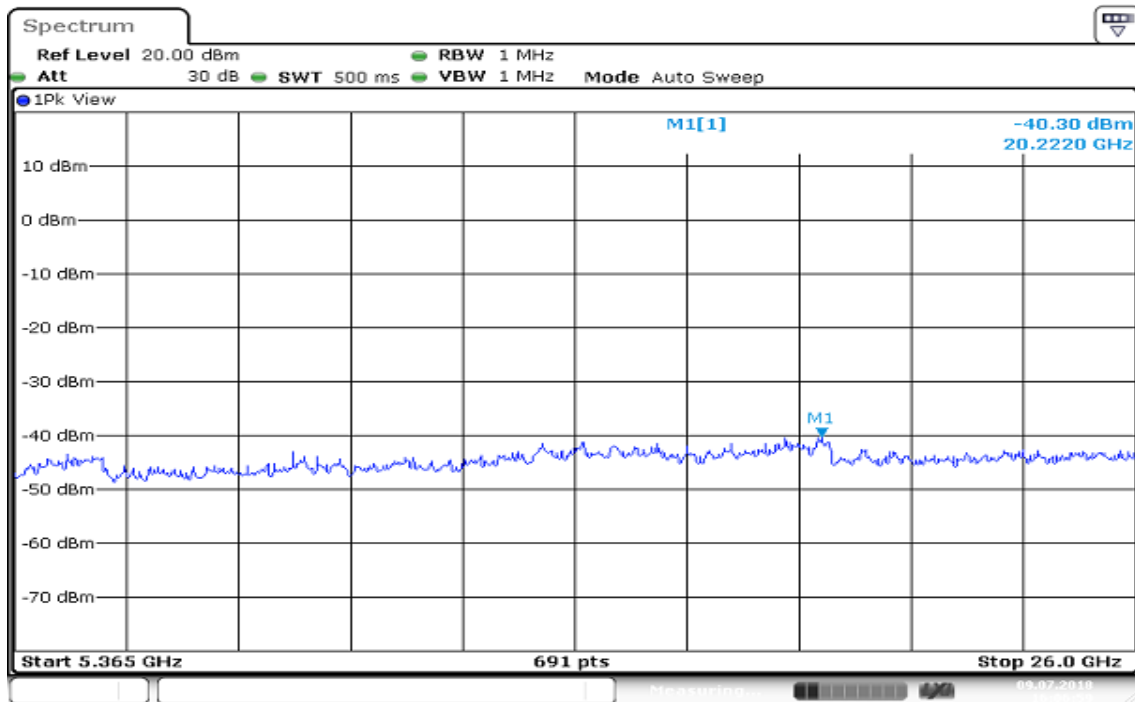
Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 15:59:18

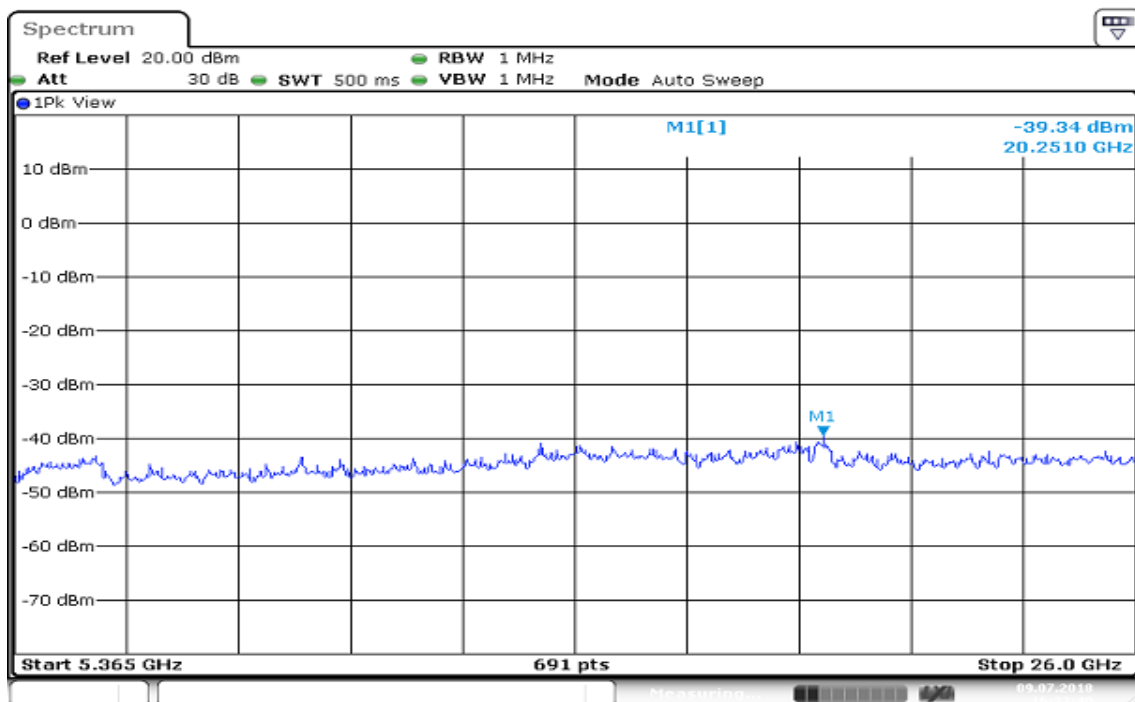
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 16:06:59

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 16:22:41

Report No.: T180627D12-RJ3

TEST RESULT

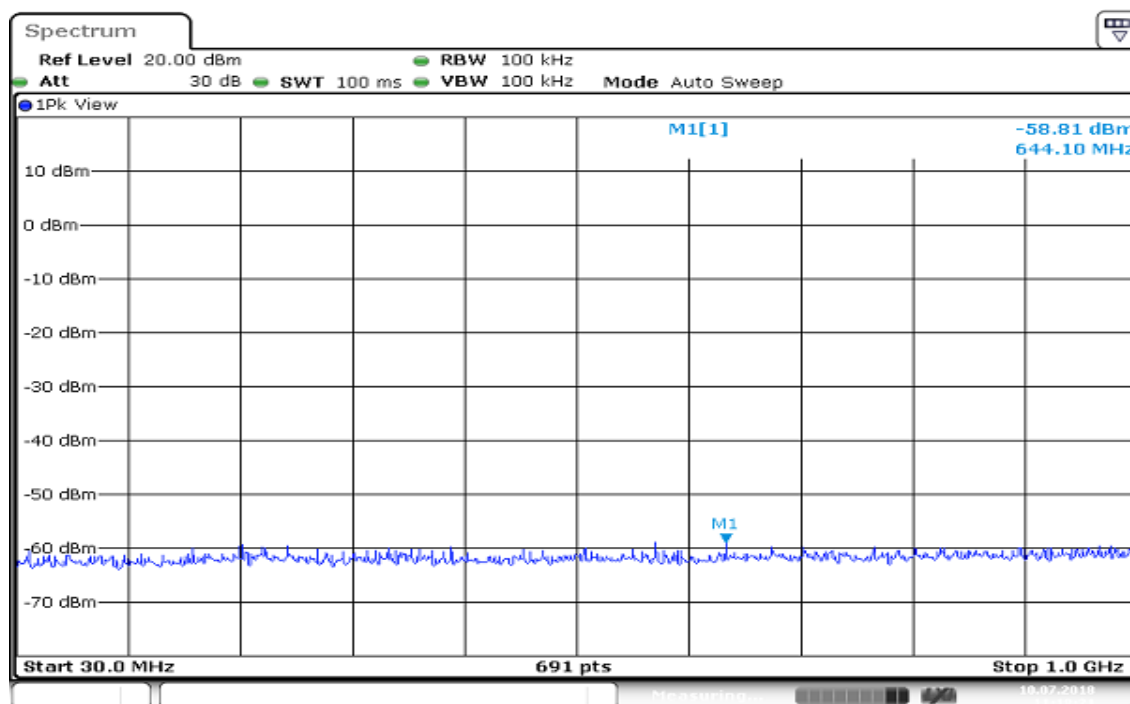
30MHz ~ 1GHz

(W56)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	644.1000	-58.81	10.37	0.01432	Normal Voltage
5600.0000	435.0000	-58.40	10.37	0.01574	
5700.0000	968.4000	-58.64	10.37	0.01488	

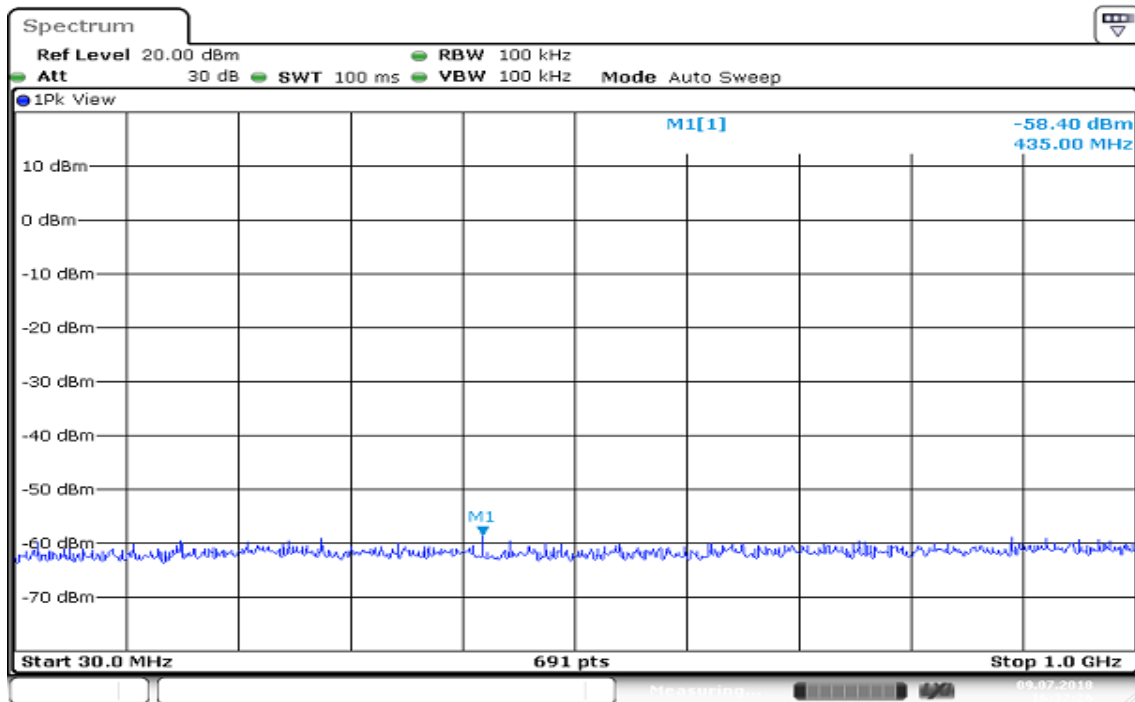
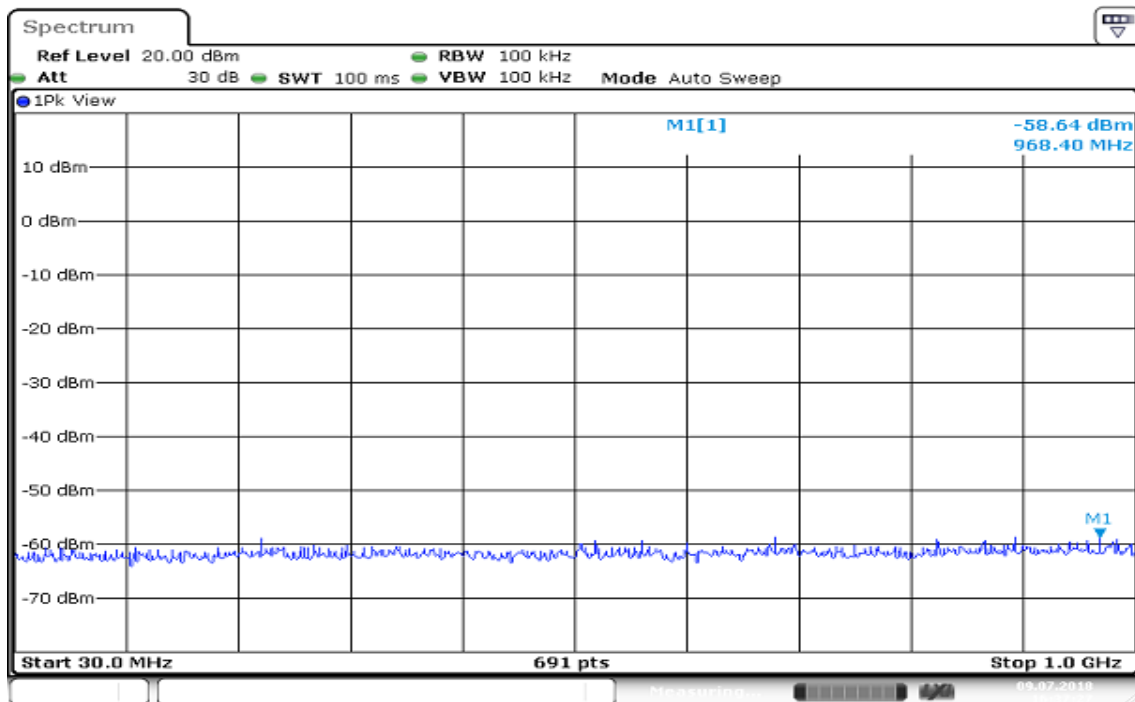
Ant 1 / CH Low(W56)



Date: 10 JUL 2018 11:18:22



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)**Ant 1 / CH High(W56)**

Report No.: T180627D12-RJ3

TEST RESULT

1GHz ~ 5.455GHz

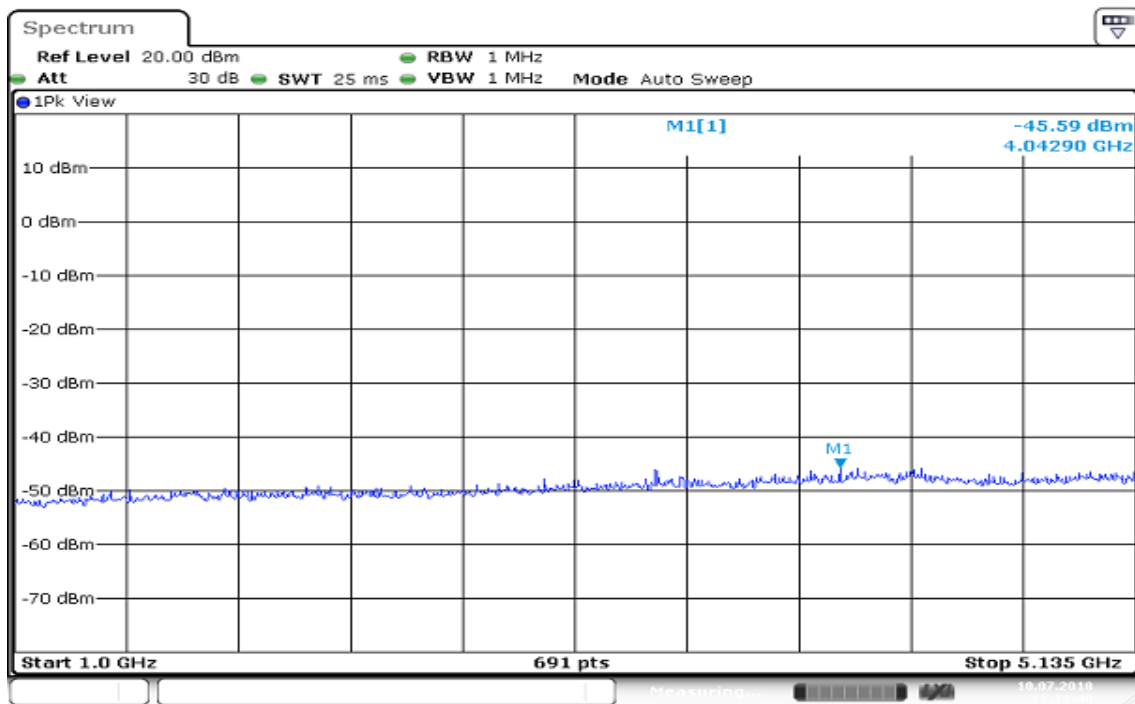
(W56)

(2) 1000MHz~less than 5455MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5500.0000	4042.9000	-45.59	10.92	0.34119	Normal Voltage
5600.0000	4324.2000	-45.63	10.92	0.33806	
5700.0000	4252.3000	-45.91	10.92	0.31696	

TEST PLOTS

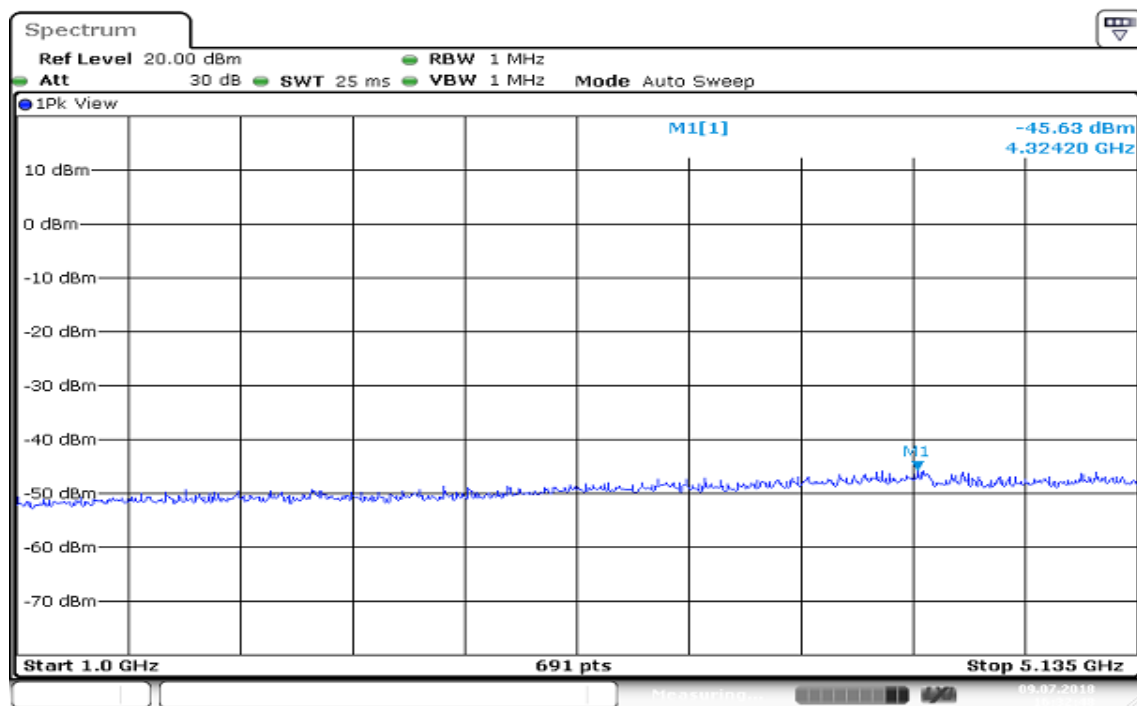
Ant 1 / CH Low(W56)



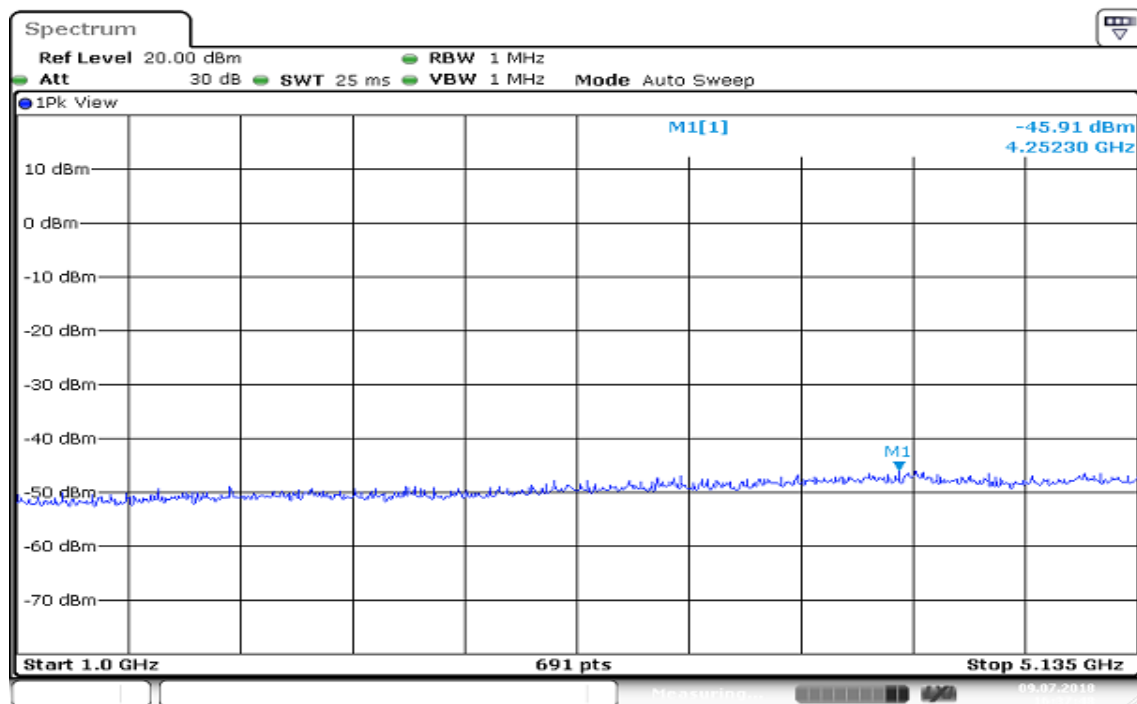
Date: 10 JUL 2018 11:18:41



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)

Date: 9 JUL 2018 16:22:48

Ant 1 / CH High(W56)

Date: 9 JUL 2018 16:27:49

Report No.: T180627D12-RJ3

TEST RESULT

5.745GHz ~ 26GHz

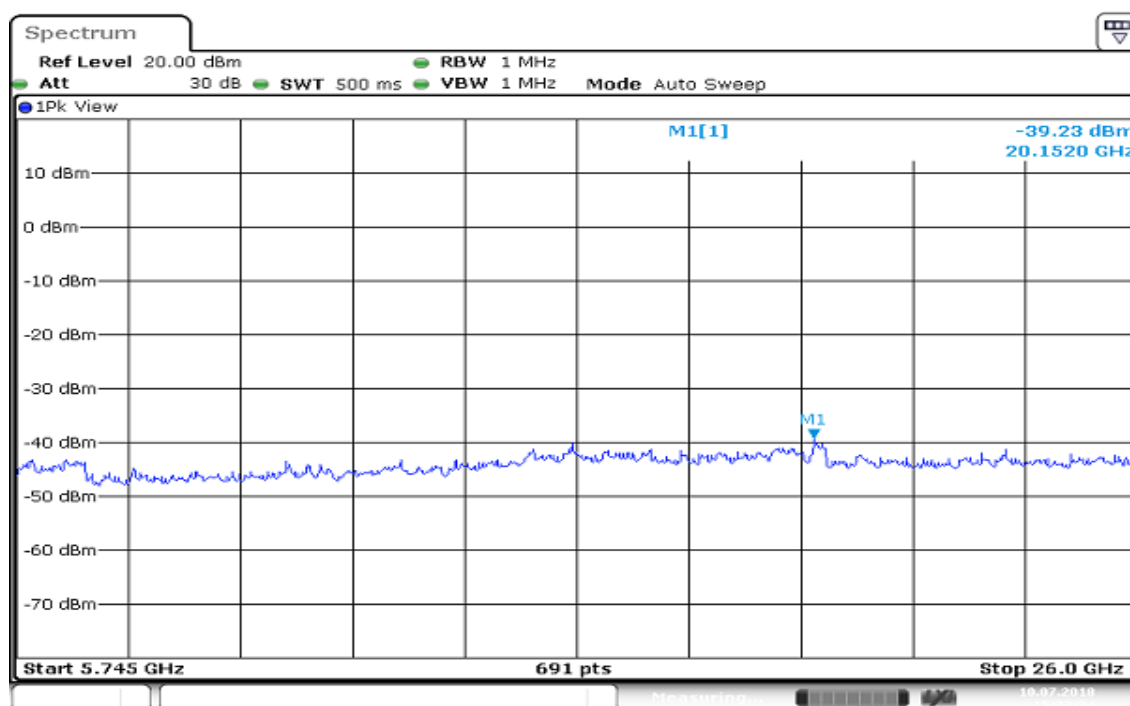
(W56)

(3) 5745MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5499.0000	-39.23	10.92	1.47571	Normal Voltage
5600.0000	5589.0000	-39.55	10.92	1.37088	
5700.0000	5708.0000	-39.33	10.92	1.44212	

TEST PLOTS

Ant 1 / CH Low(W56)

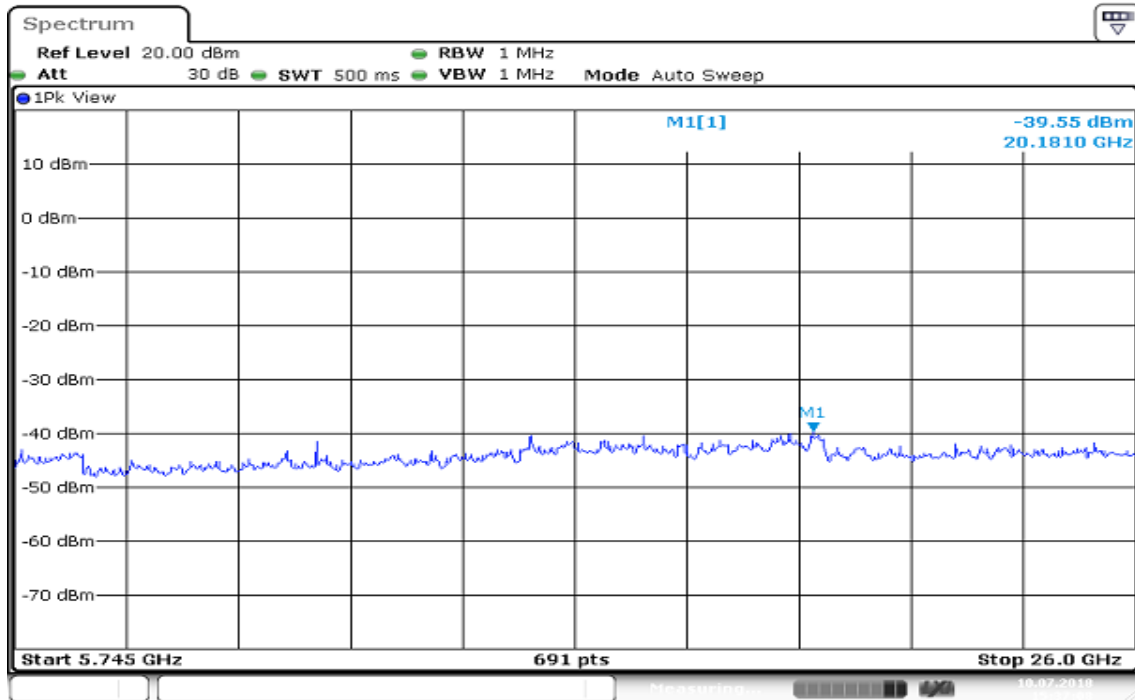


Date: 10 JUL 2018 15:33:35



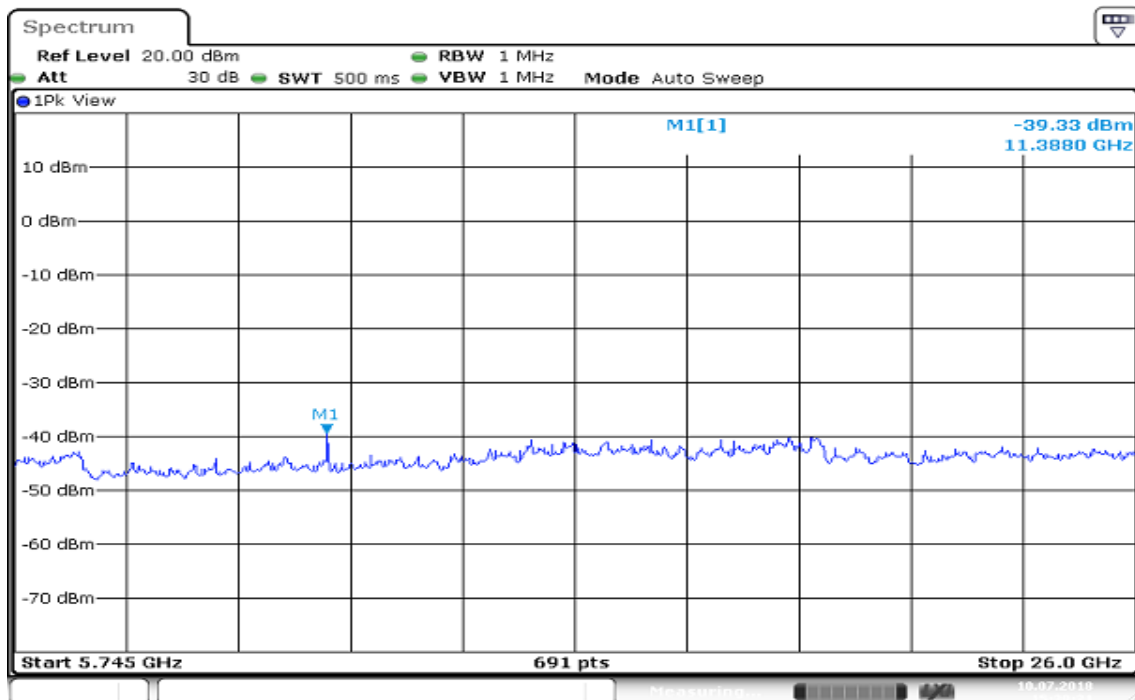
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 15:37:09

Ant 1 / CH High(W56)



Date: 10 JUL 2018 15:39:32

Report No.: T180627D12-RJ3

7.4 OCCUPIED BANDWIDTH (99%)

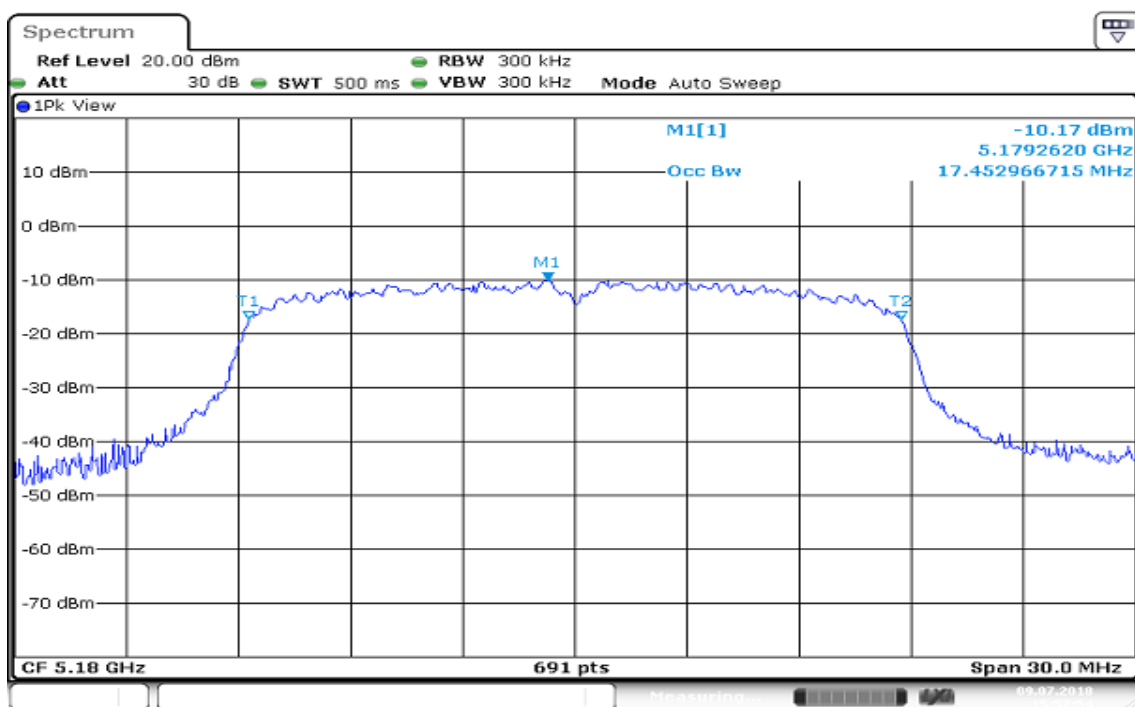
TEST RESULT

(W52 & W53)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5180.0000	5180.00	17.45	Normal Voltage
5240.0000	5240.00	17.37	
5320.0000	5320.00	17.41	

TEST PLOTS

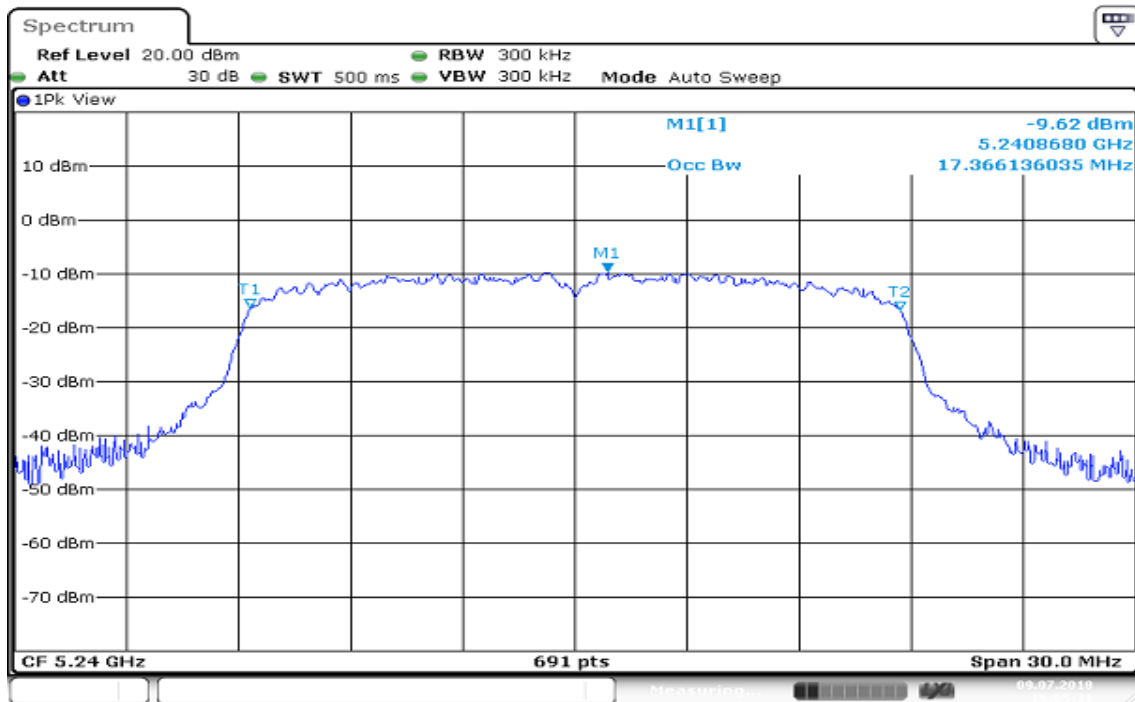
Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 15:57:54

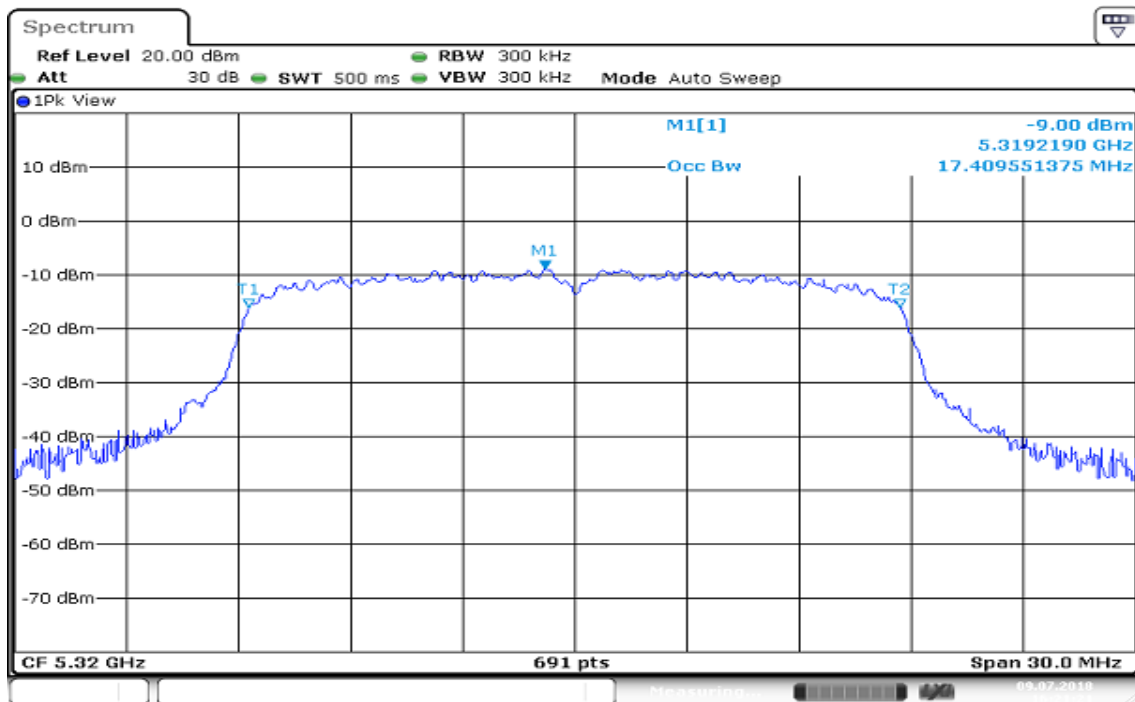
Report No.: T180627D12-RJ3

Ant 1 CH Mid(W52 & W53)



Date: 9.JUL.2018 16:05:31

Ant 1 CH High(W52 & W53)



Date: 9.JUL.2018 16:21:21

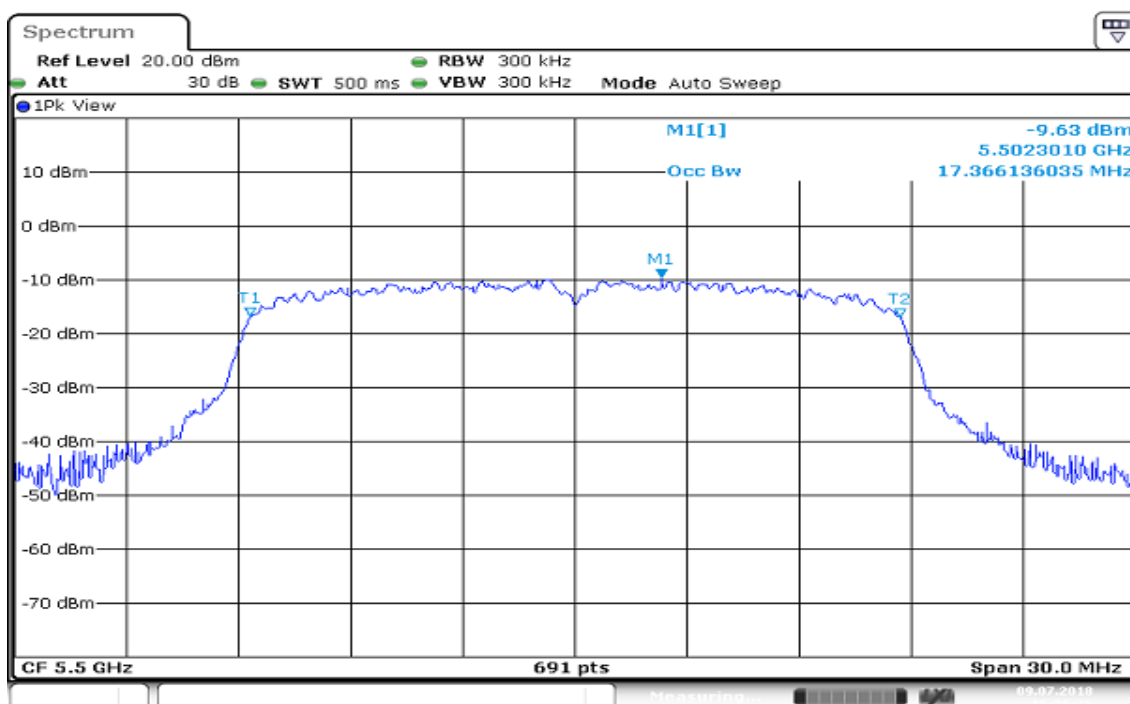
Report No.: T180627D12-RJ3

TEST RESULT

(W56)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5500.0000	5500.00	17.37	Normal Voltage
5600.0000	5600.00	17.37	
5700.0000	5700.00	17.41	

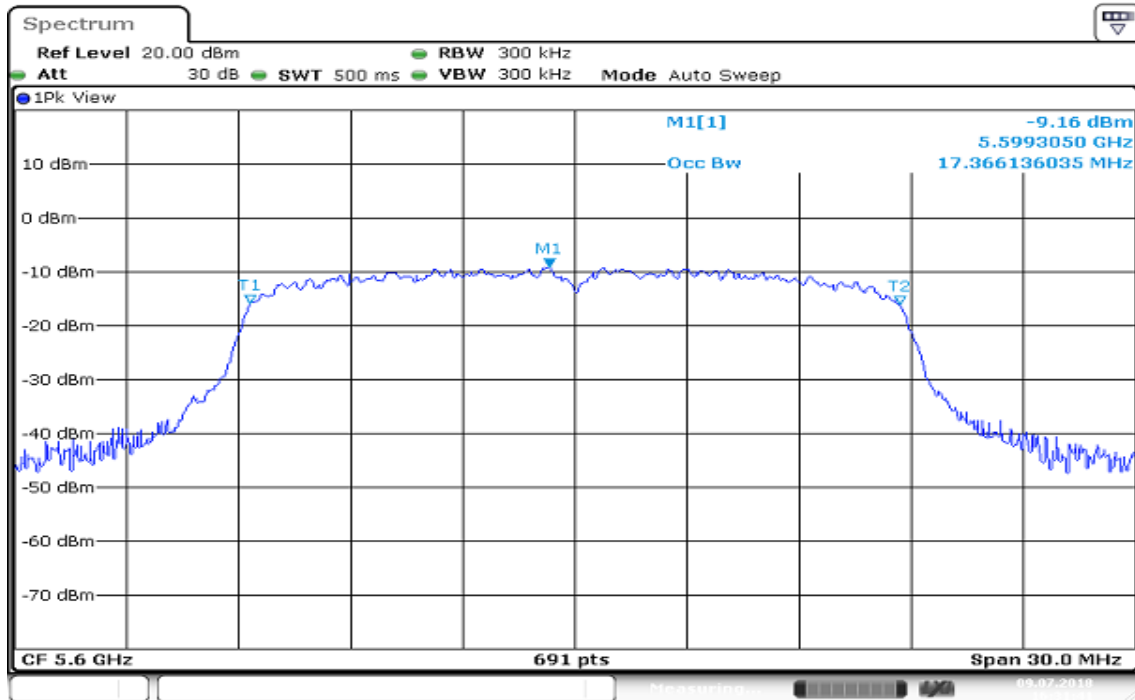
Ant 1 / CH Low(W56)



Date: 9 JUL 2018 16:26:36

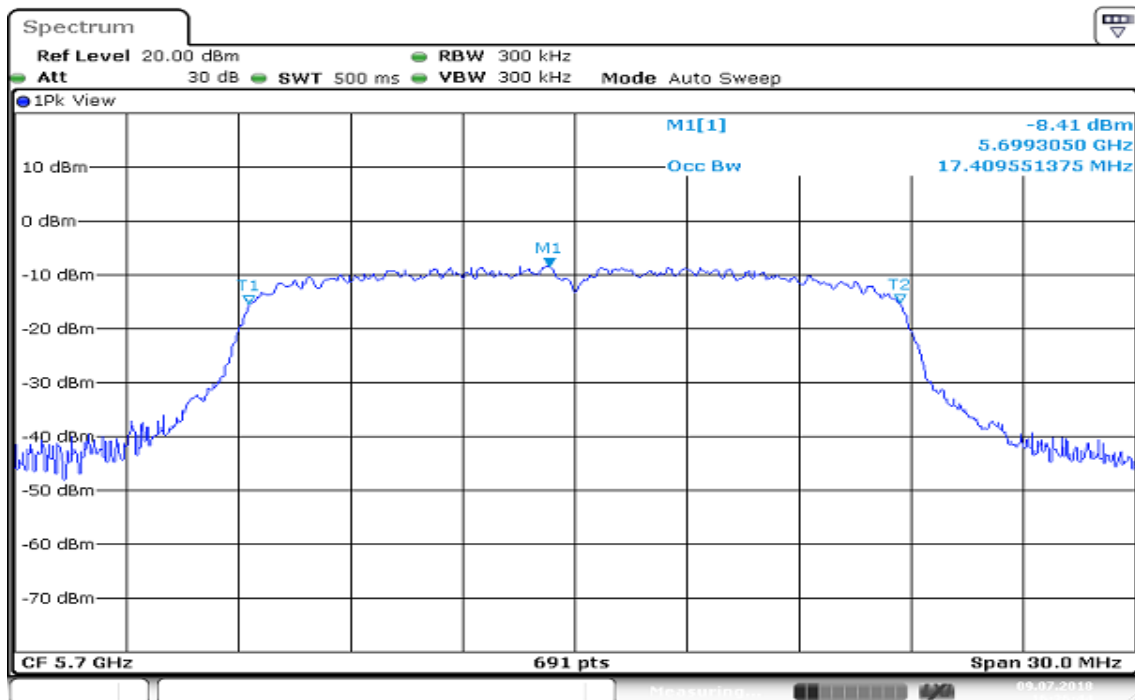
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9.JUL.2018 16:21:41

Ant 1 / CH High(W56)



Date: 9.JUL.2018 16:26:45

Report No.: T180627D12-RJ3

7.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

30MHz ~ 1GHz

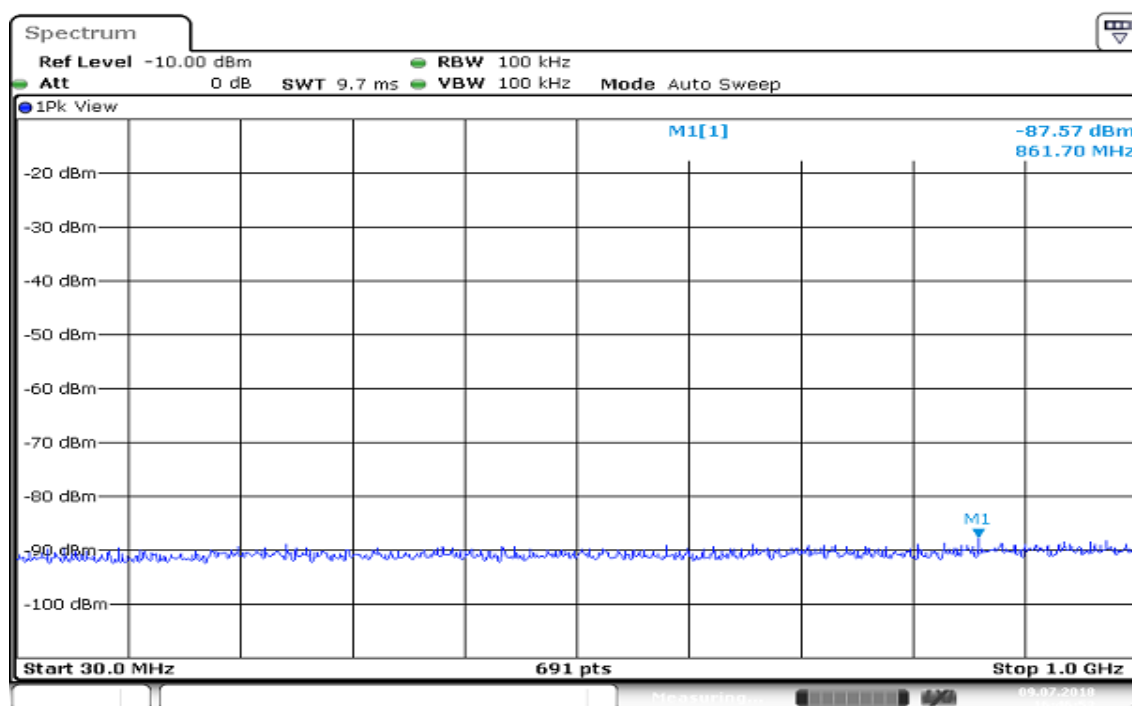
(W52 & W53)

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5180 MHz	861.7000	-87.57	10.37	0.0191	Normal Voltage
5240 MHz	938.9000	-88.11	10.37	0.0168	
5320 MHz	885.6000	-88.28	10.37	0.0162	

TEST PLOTS

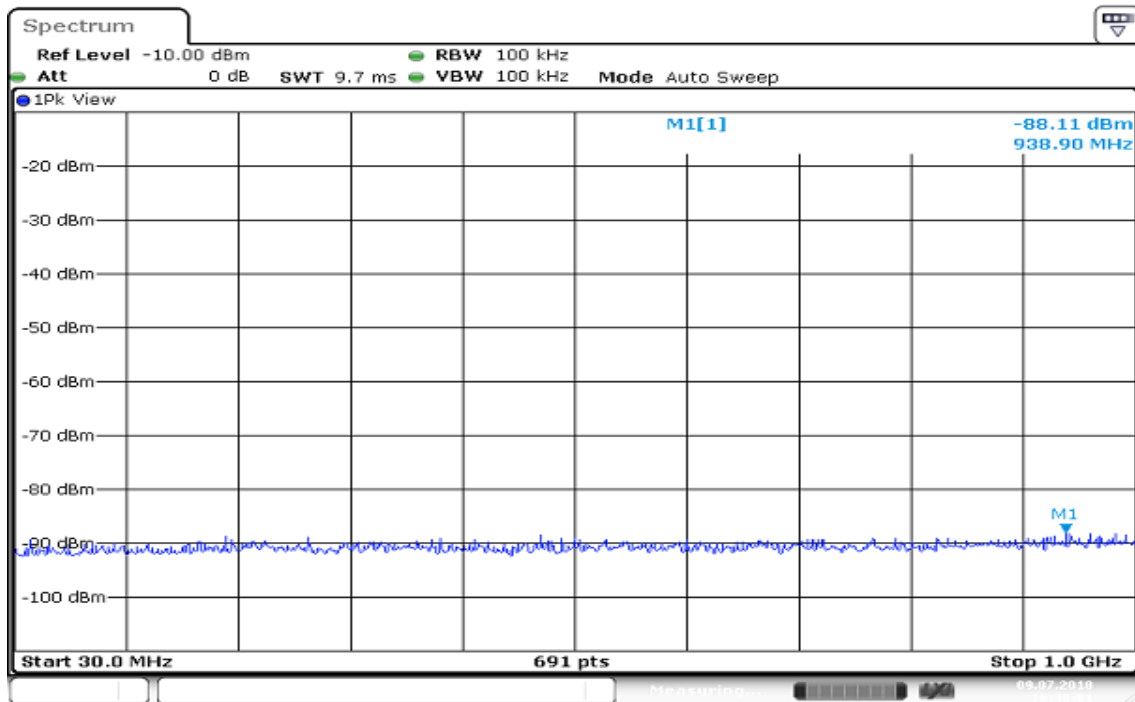
Ant 1 / CH Low(W52 & W53)



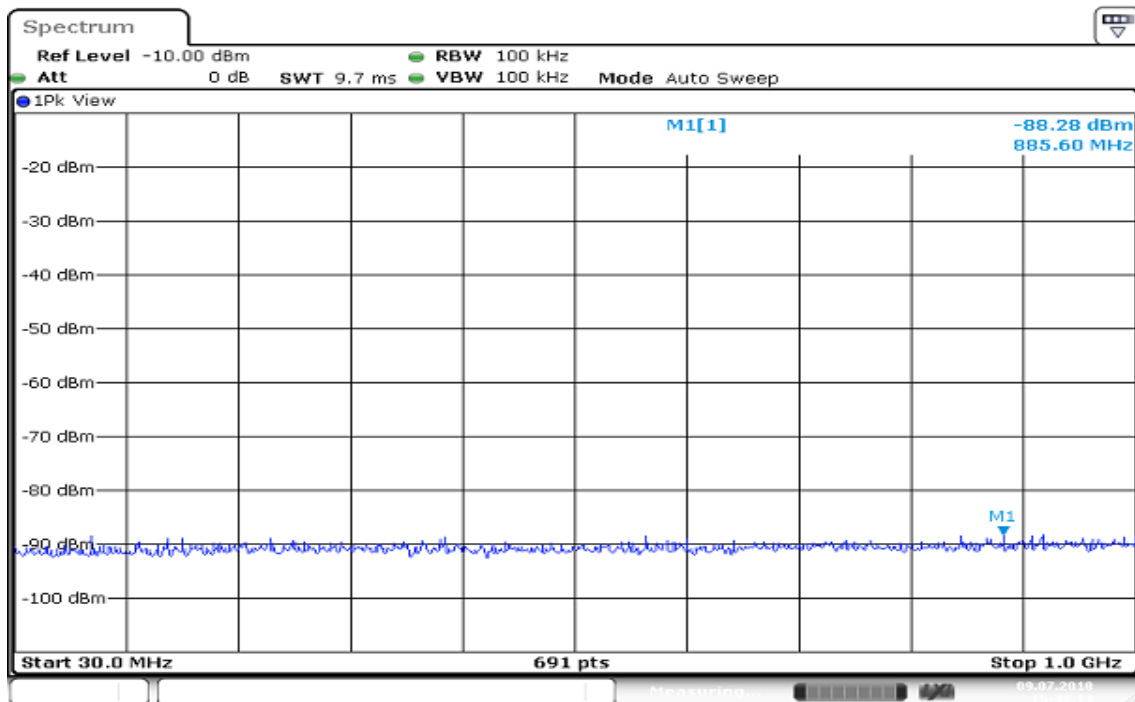
Date: 9.JUL.2018 16:46:54



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)

Date: 9 JUL 2018 16:48:02

Ant 1 / CH High(W52 & W53)

Date: 9 JUL 2018 16:49:13

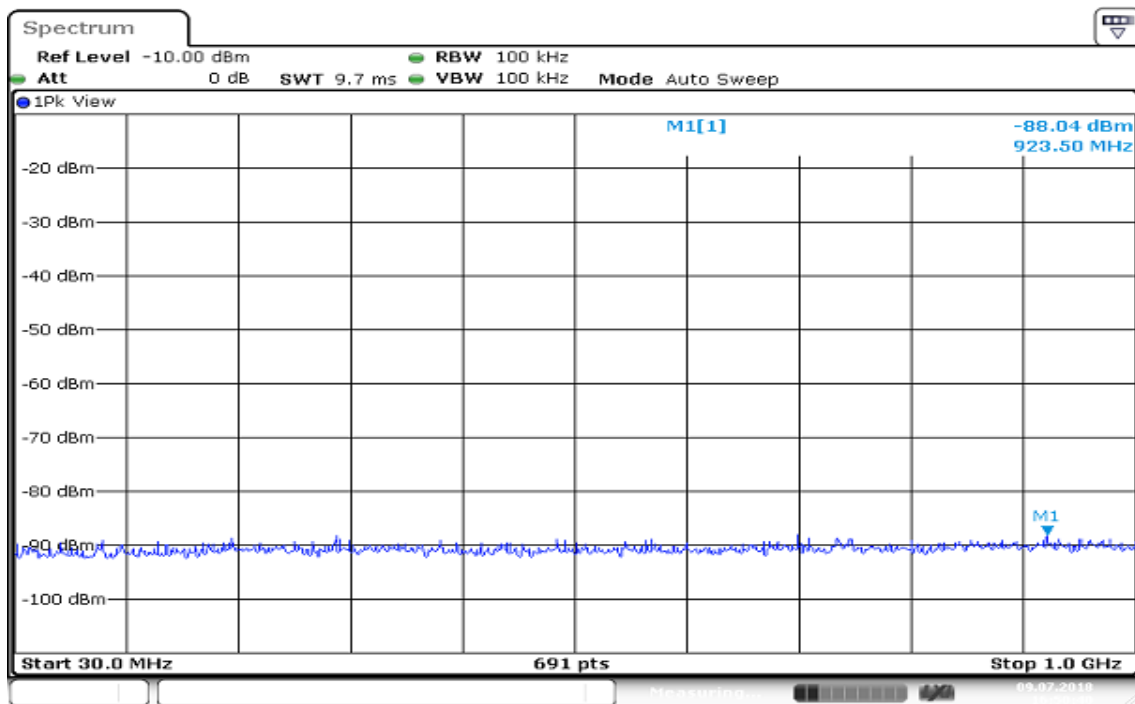


Report No.: T180627D12-RJ3

TEST RESULT**30MHz ~ 1GHz****(W56)**

Freq: 30MHz~1GHz

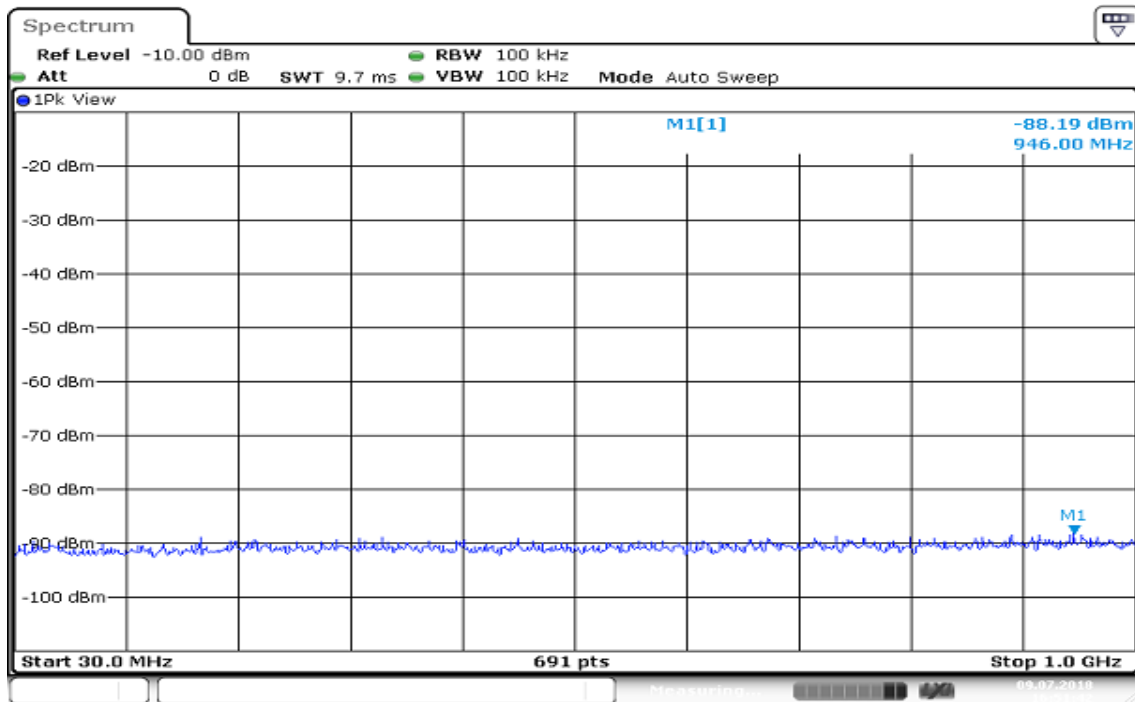
	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5500 MHz	923.5000	-88.04	10.37	0.0171	Normal Voltage
5600 MHz	946.0000	-88.19	10.37	0.0165	
5700 MHz	926.3000	-87.54	10.37	0.0192	

Ant 1 / CH Low(W56)

Date: 9 JUL 2018 16:50:41

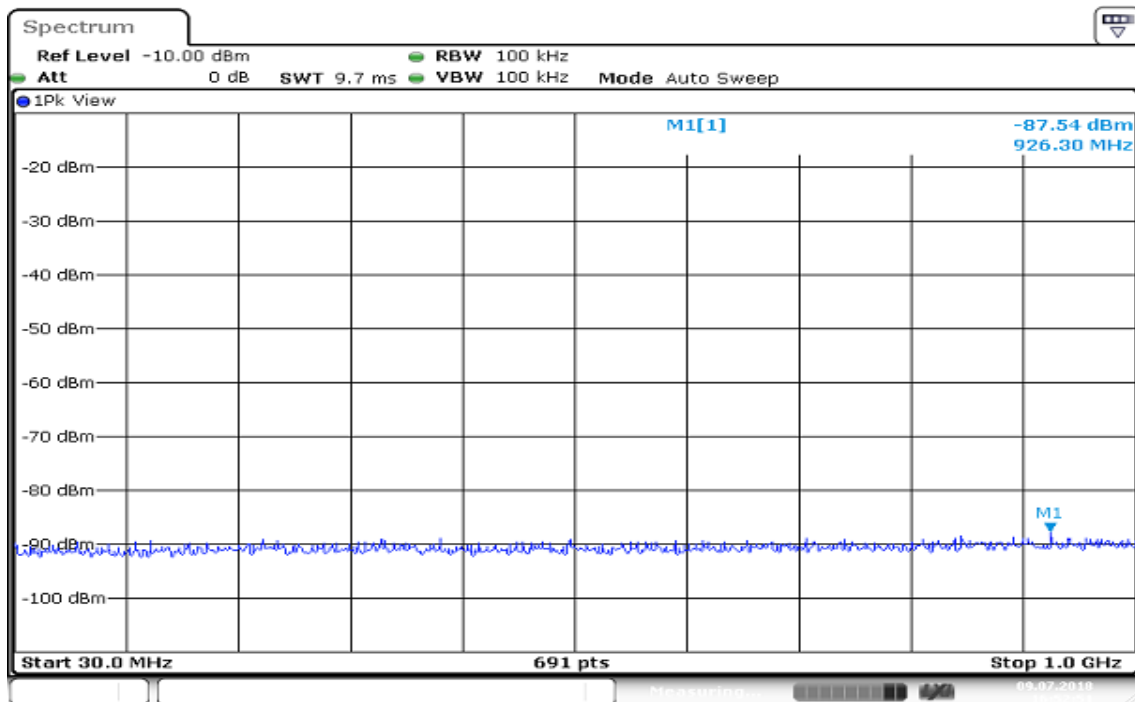
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9 JUL 2018 16:51:42

Ant 1 / CH High(W56)



Date: 9 JUL 2018 16:52:52

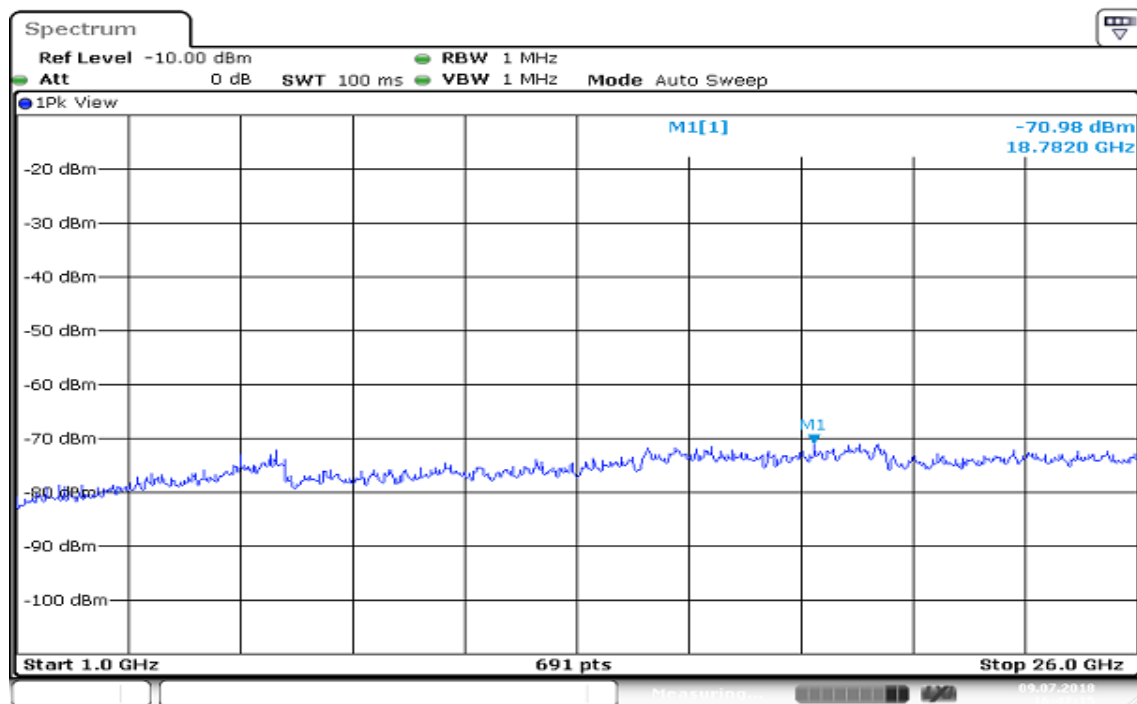


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 26GHz****(W52 & W53)**

Freq: 1GHz~26GHz

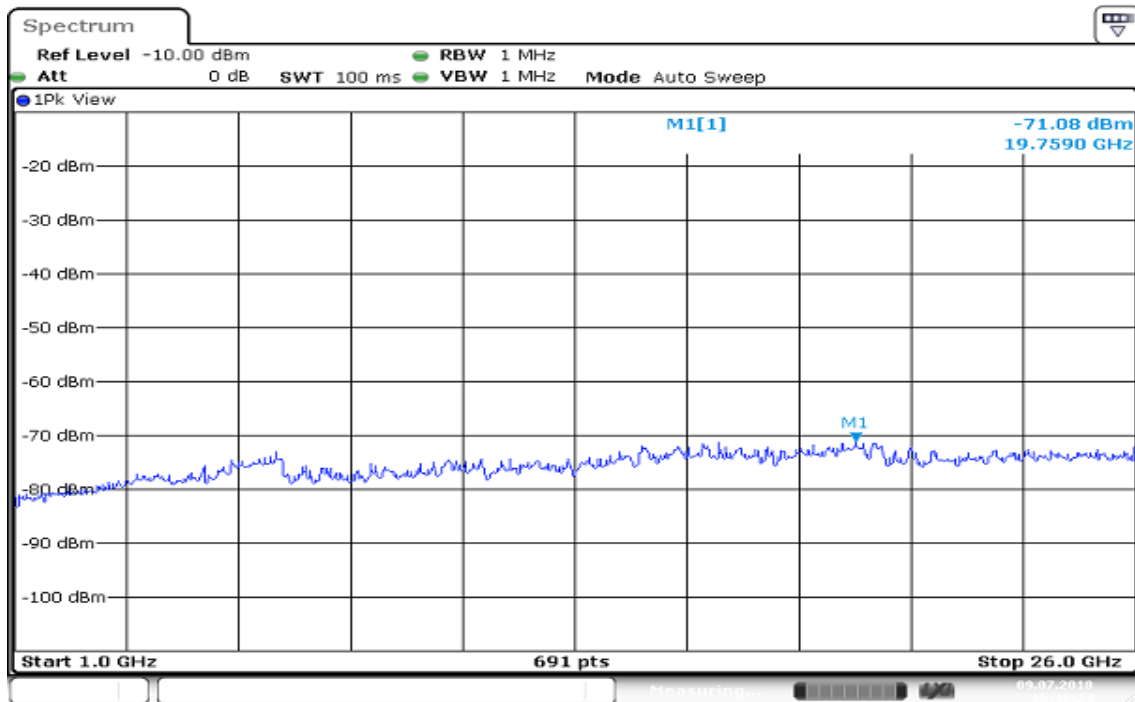
	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5180 MHz	18782.0000	-70.98	10.97	0.9977	Normal Voltage
5240 MHz	19759.0000	-71.08	10.97	0.9750	
5320 MHz	20229.0000	-70.35	10.97	1.1535	

TEST PLOTS**Ant 1 / CH Low(W52 & W53)**

Date: 9 JUL 2018 16:47:15

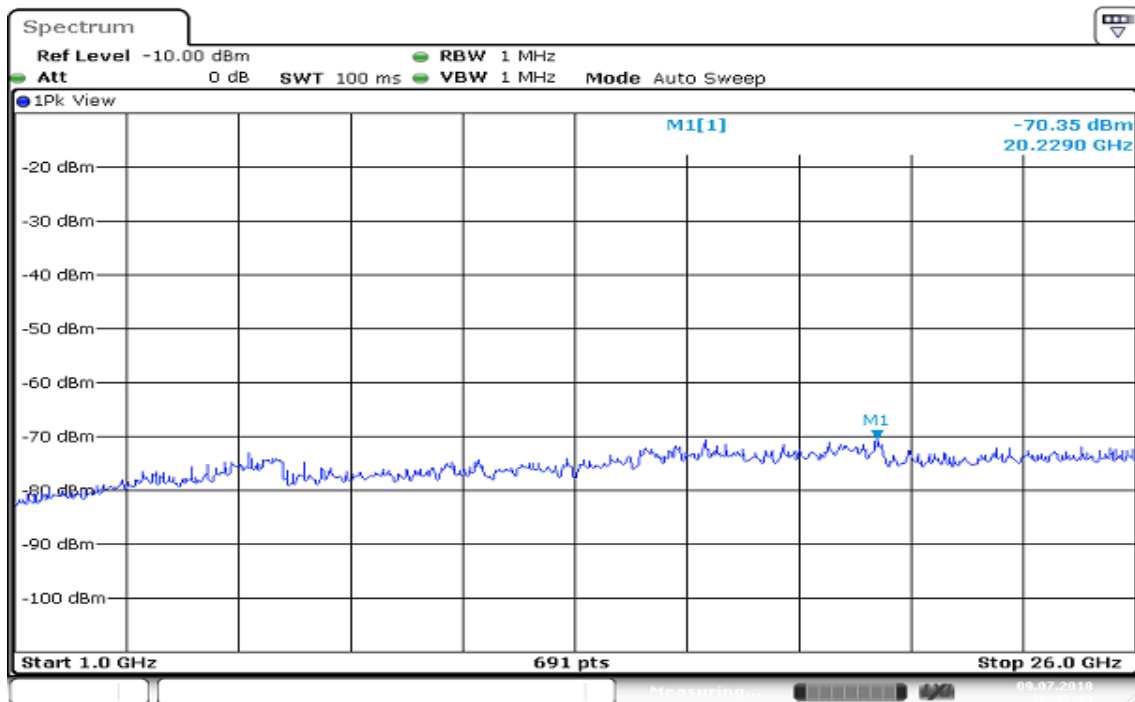
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 16:48:24

Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 16:49:43

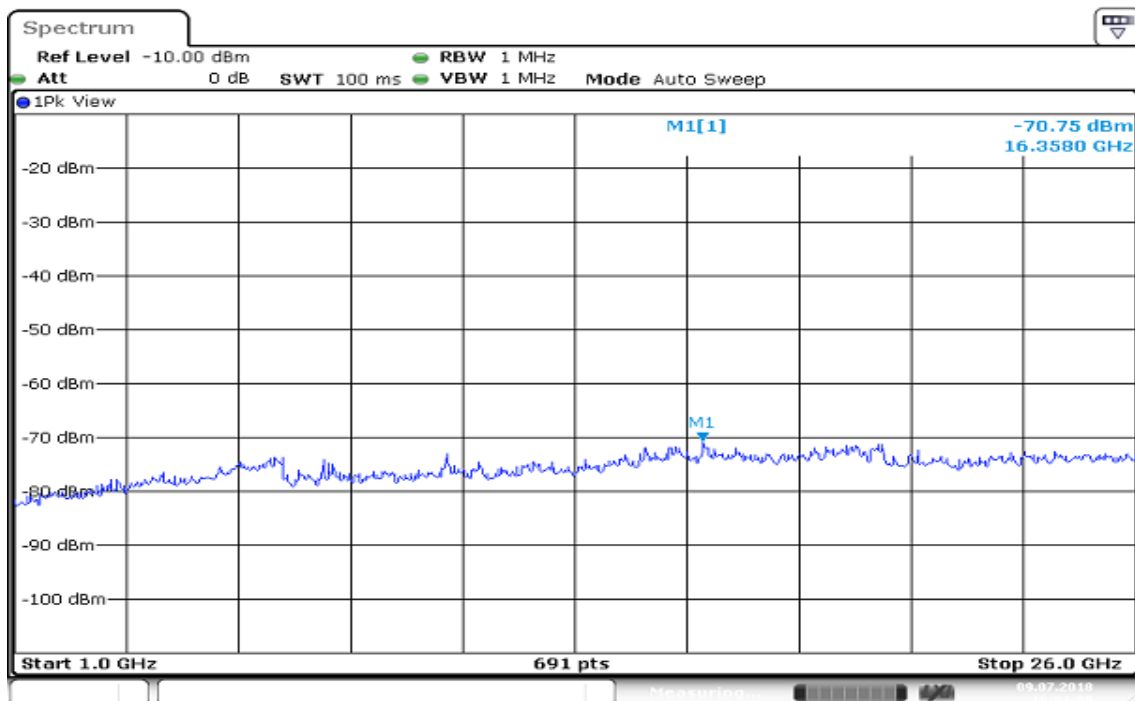


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 26GHz****(W56)**

Freq: 1GHz~26GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5500 MHz	16358.0000	-70.75	10.97	1.0520	Normal Voltage
5600 MHz	19506.0000	-70.42	10.97	1.1350	
5700 MHz	20193.0000	-70.98	10.97	0.9977	

Ant 1 / CH Low(W56)

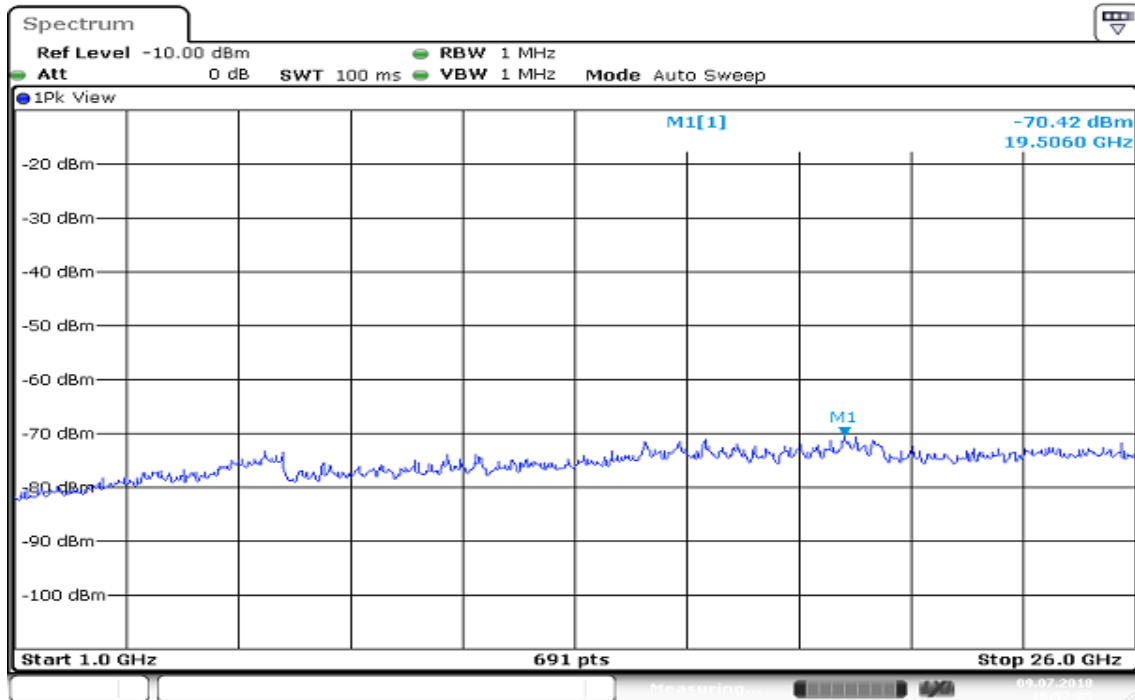
Date: 9 JUL 2018 16:51:01

Report No.: T180627D12-RJ3

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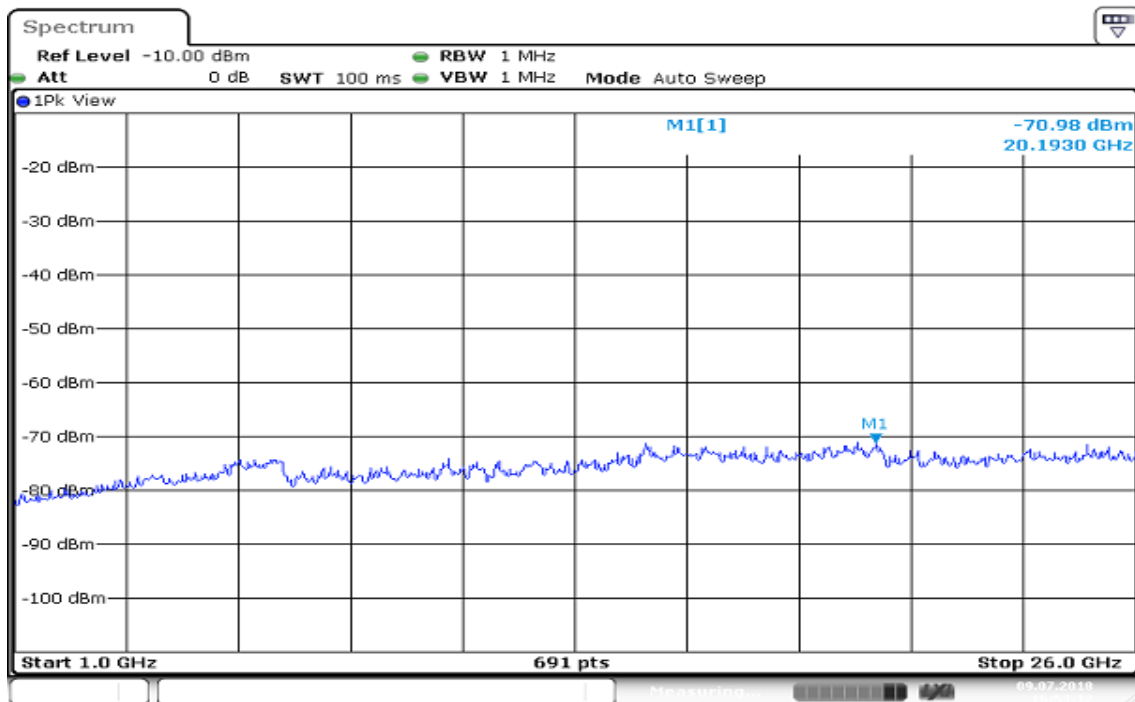
Rev.: 01

Ant 1 / CH Mid(W56)



Date: 9.JUL.2018 16:52:05

Ant 1 / CH High(W56)



Date: 9.JUL.2018 16:53:12



Report No.: T180627D12-RJ3

7.6 OUT-BAND LEAKAGE POWER (EIRP)

TEST RESULT

5135MHz ~ 5142MHz

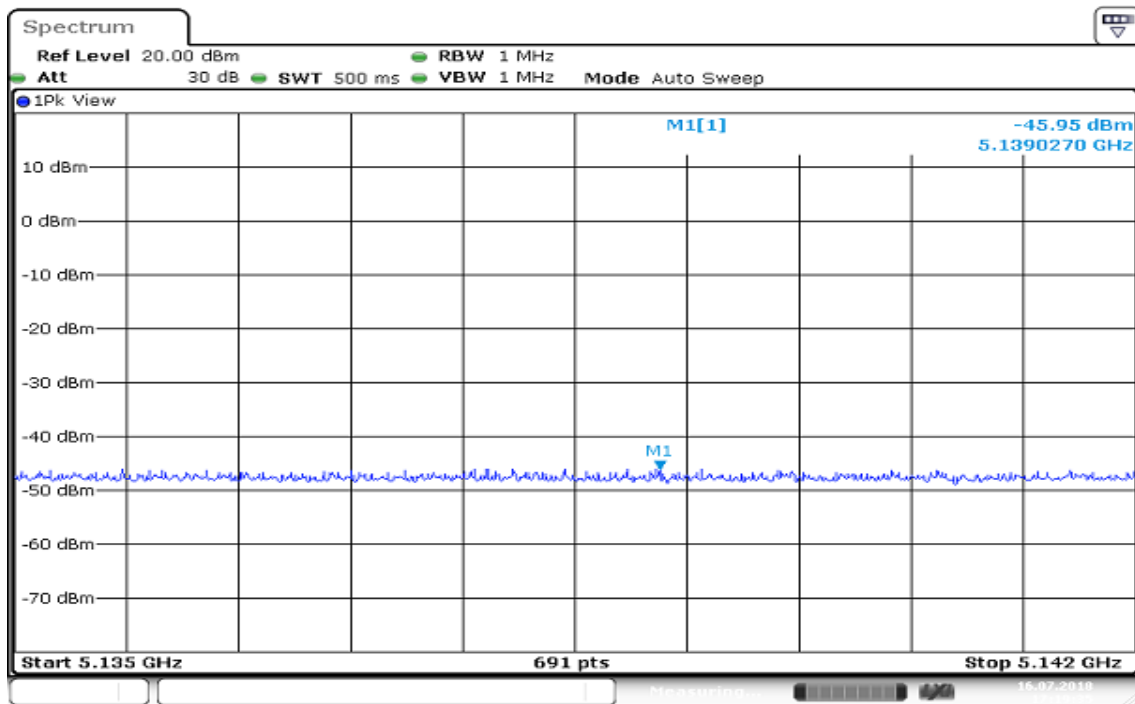
(W52)

(1) 5135MHz~less than 5142MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5139.0270	-45.95	16.92	1.25026	Normal Voltage
5200.0000	5135.6530	-45.50	16.92	1.38676	
5240.0000	5136.3420	-45.53	16.92	1.37721	

TEST PLOTS

Ant 1 / CH Low(W52)

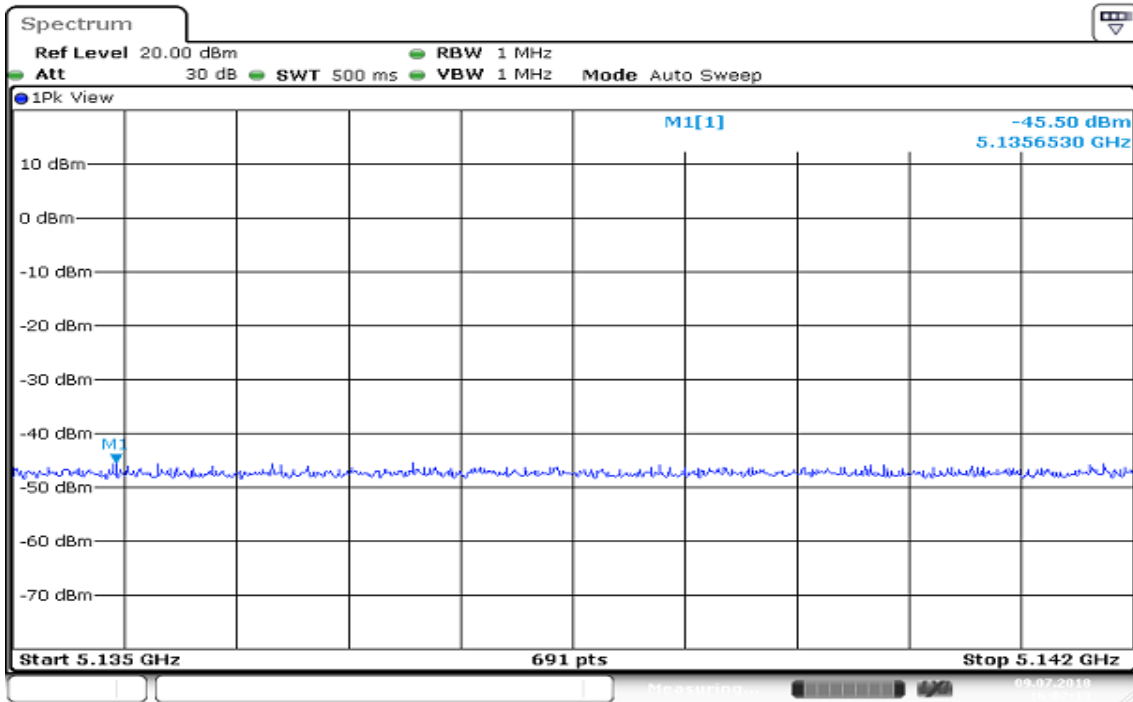


Date: 16 JUL 2018 17:19:36



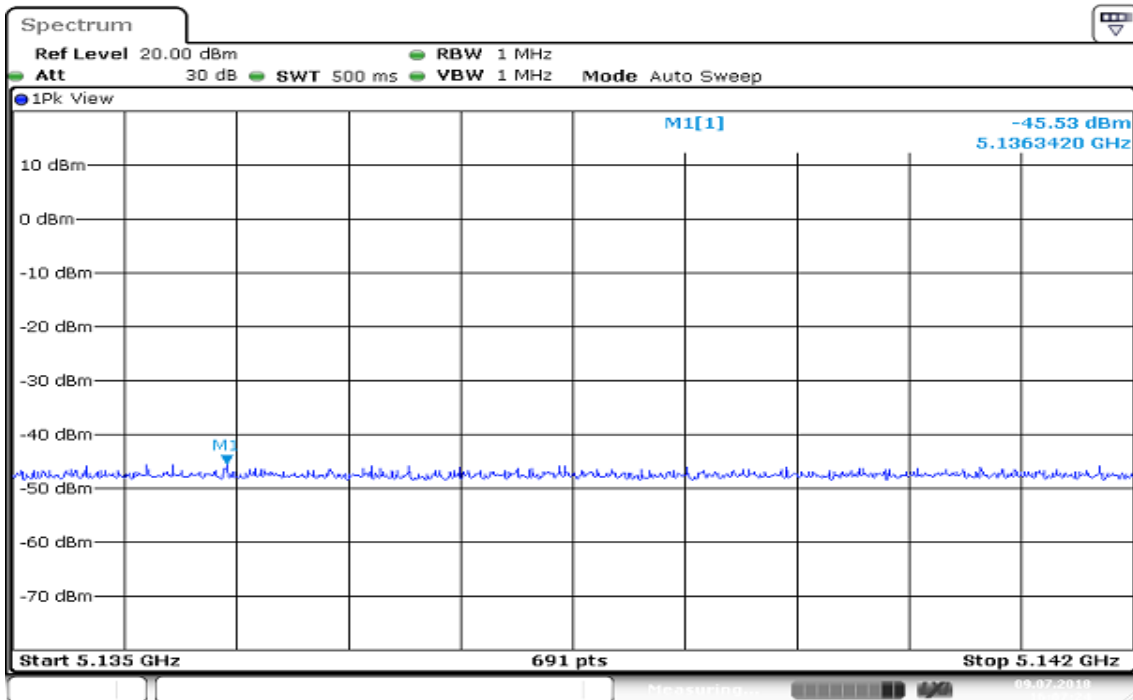
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)



Date: 9 JUL 2018 16:02:14

Ant 1 / CH High(W52)



Date: 9 JUL 2018 16:07:24

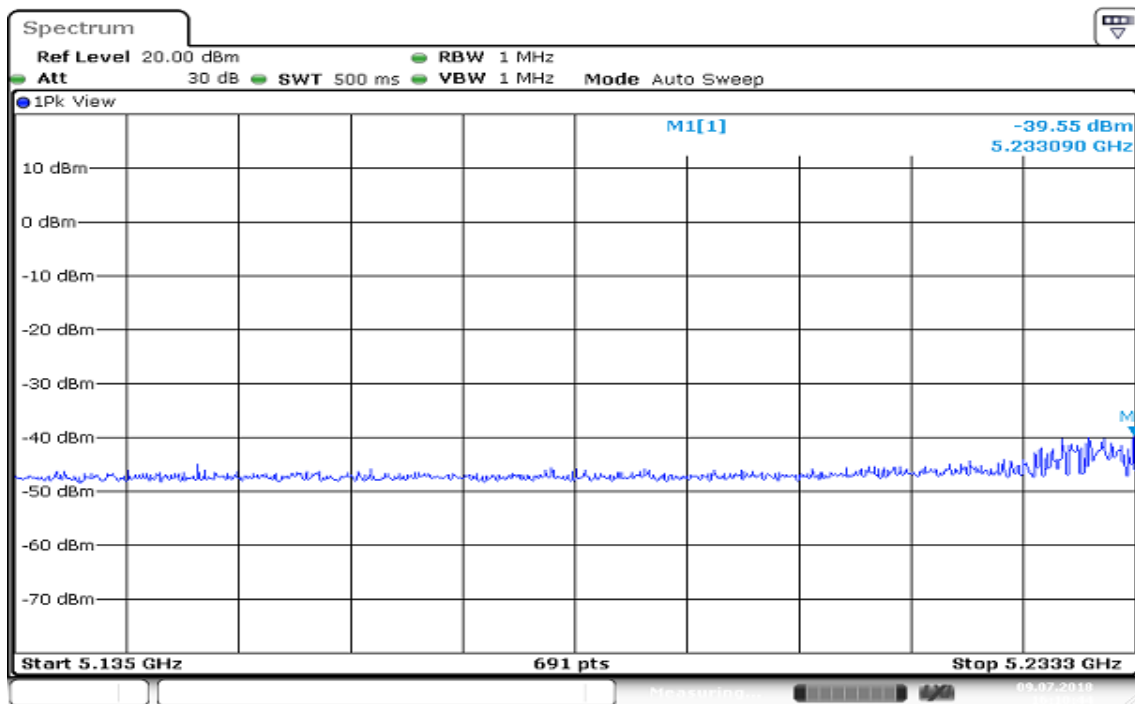


Report No.: T180627D12-RJ3

TEST RESULT**5.135GHz ~ 5.2333GHz****(W53)**

(1) 5135MHz~less than 5.2333MHz

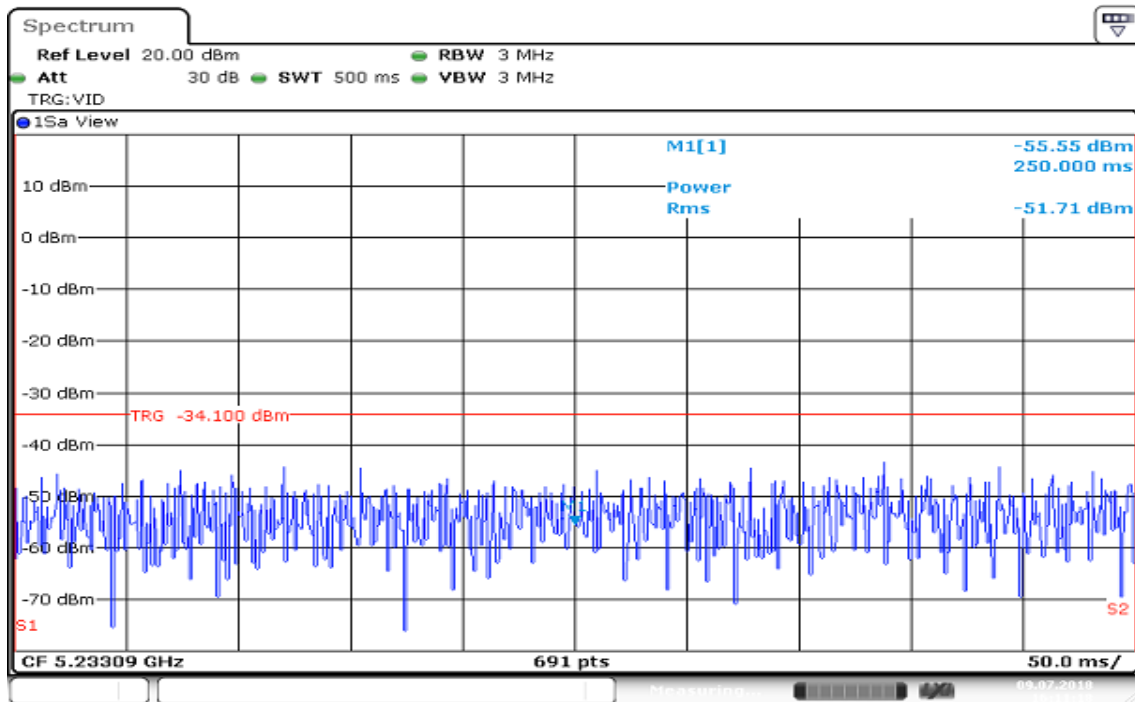
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5233.0900	-51.71	16.92	0.33189	Normal Voltage
5300.0000	5194.6800	-44.98	16.92	1.56315	
5320.0000	5227.1100	-45.27	16.92	1.46218	

TEST PLOTS**Ant 1 / CH Low(W53)****(Search)**

Date: 9 JUL 2018 16:10:45

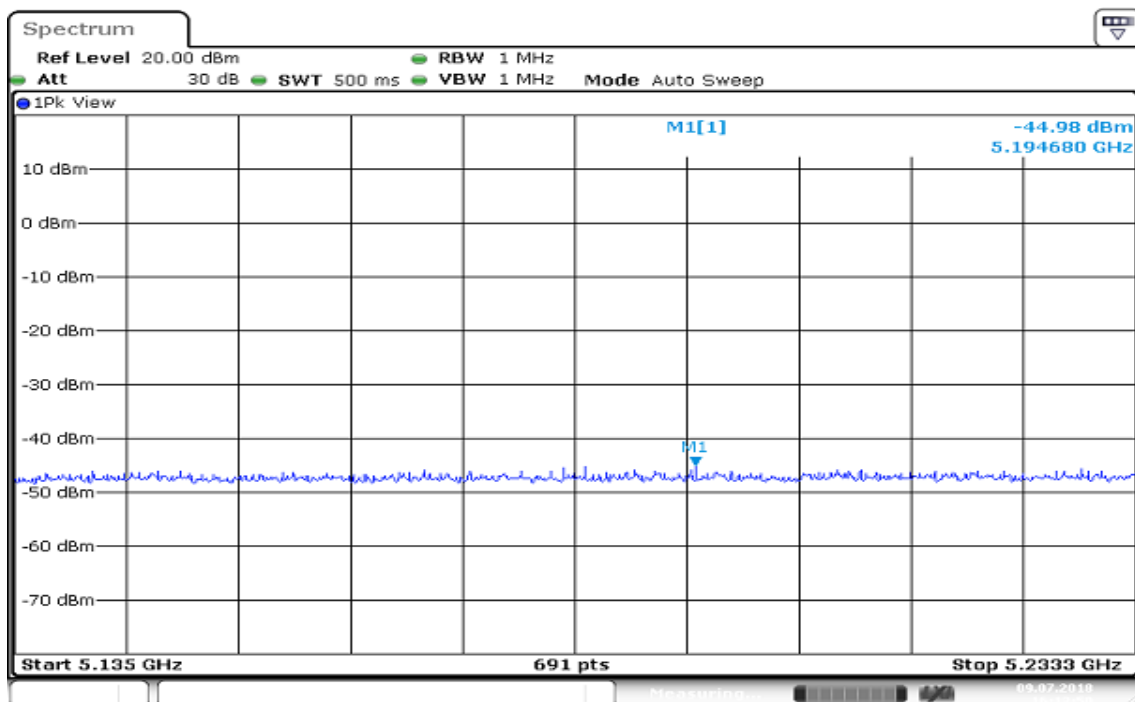
Report No.: T180627D12-RJ3

(Detail)



Date: 9.JUL.2018 16:11:49

Ant 1 / CH Mid(W53)



Date: 9.JUL.2018 16:13:50

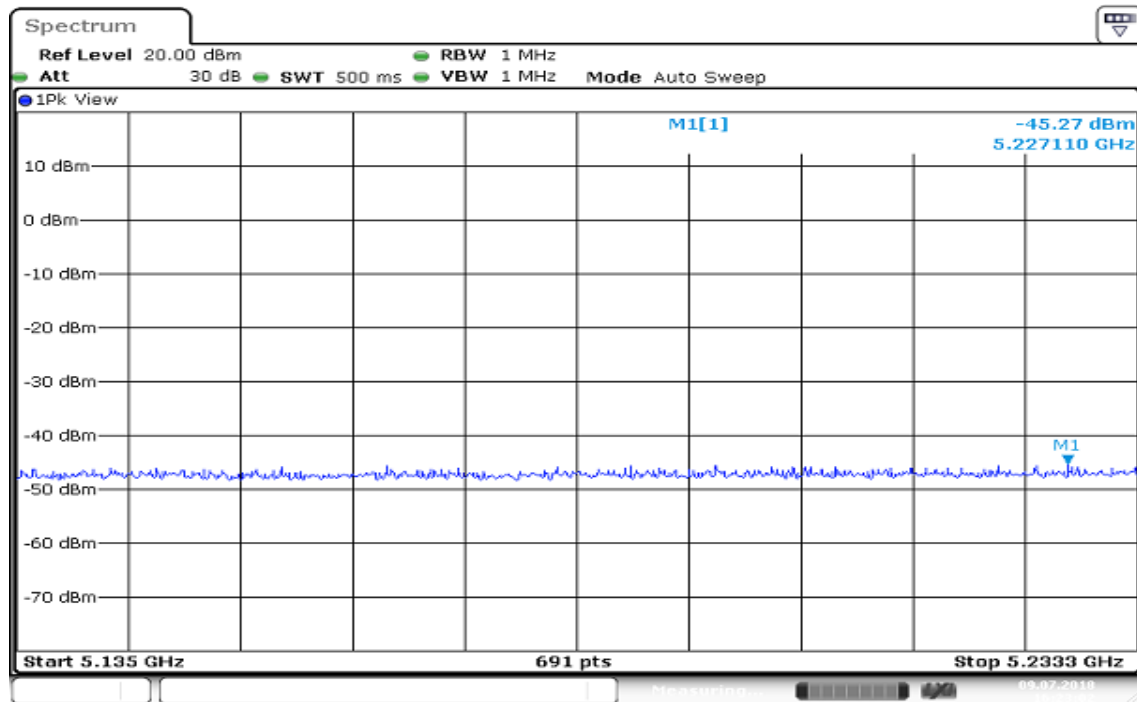


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Ant 1 / CH High(W53)



Date: 9 JUL 2018 16:23:02



Report No.: T180627D12-RJ3

TEST PLOTS

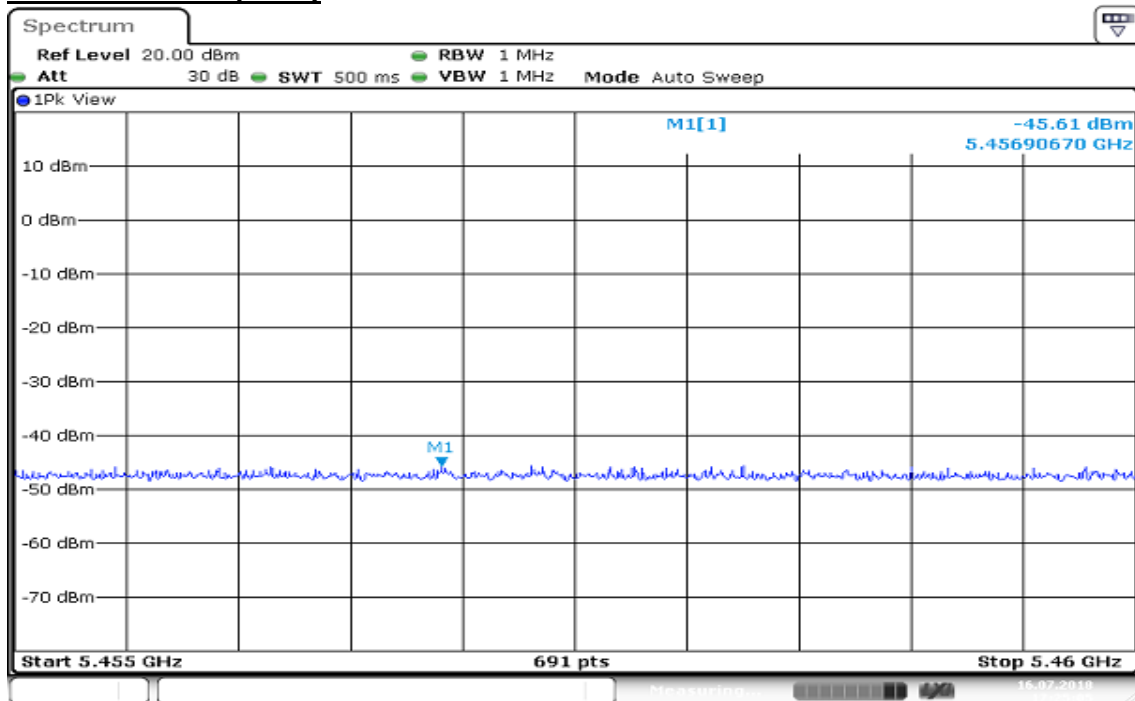
5.455GHz ~ 5.46GHz

(W56)

(1) 5455MHz~less than 5460MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5456.9067	-45.61	16.92	1.35207	Normal Voltage
5600.0000	5456.7330	-44.98	16.92	1.56315	
5700.0000	5455.2931	-44.92	16.92	1.58489	

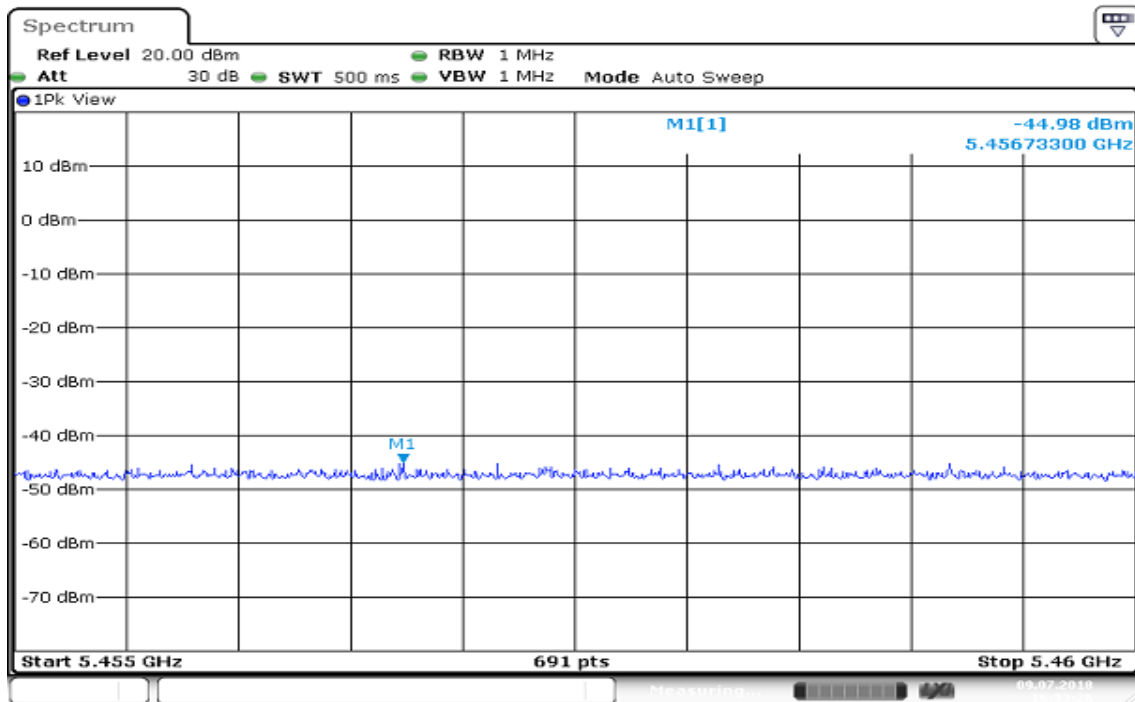
Ant 1 / CH Low(W56)



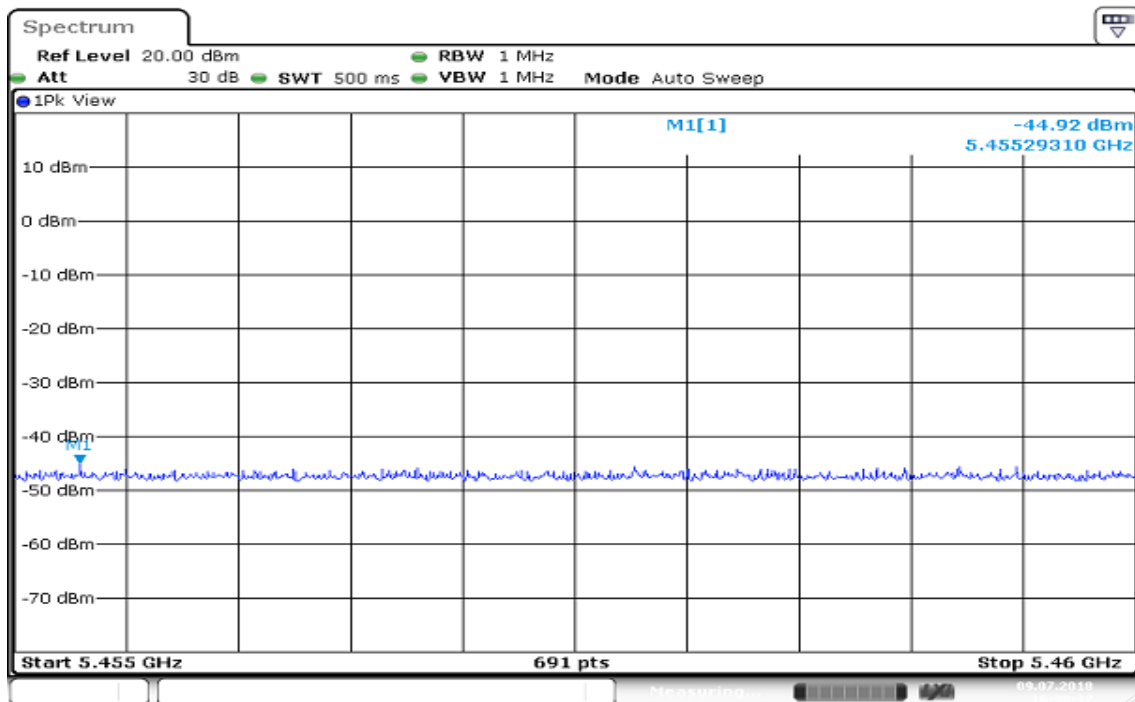
Date: 16 JUL 2018 17:25:06



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)

Date: 9 JUL 2018 16:29:27

Ant 1 / CH High(W56)

Date: 9 JUL 2018 16:28:33

Report No.: T180627D12-RJ3

TEST RESULT

5.142GHz ~ 5.15GHz

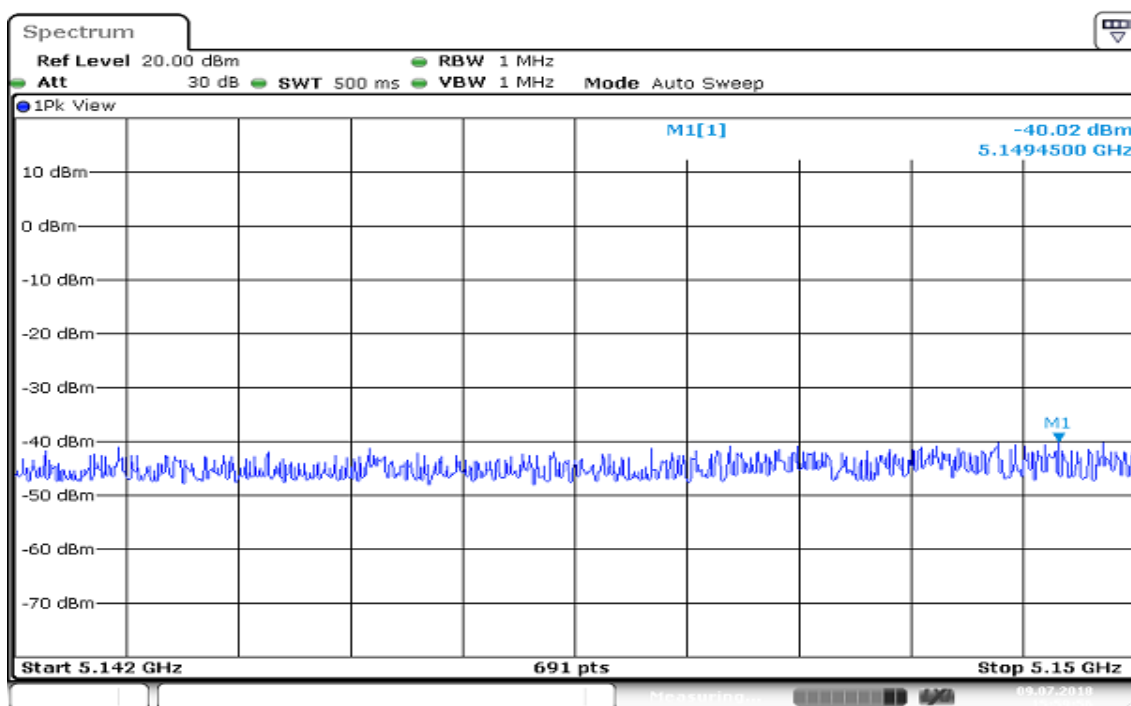
(W52)

(2) 5142MHz~less than 5150MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5149.4500	-40.02	16.92	4.89779	Normal Voltage
5200.0000	5149.5890	-45.41	16.92	1.41579	
5240.0000	5143.5570	-45.69	16.92	1.32739	

TEST PLOTS

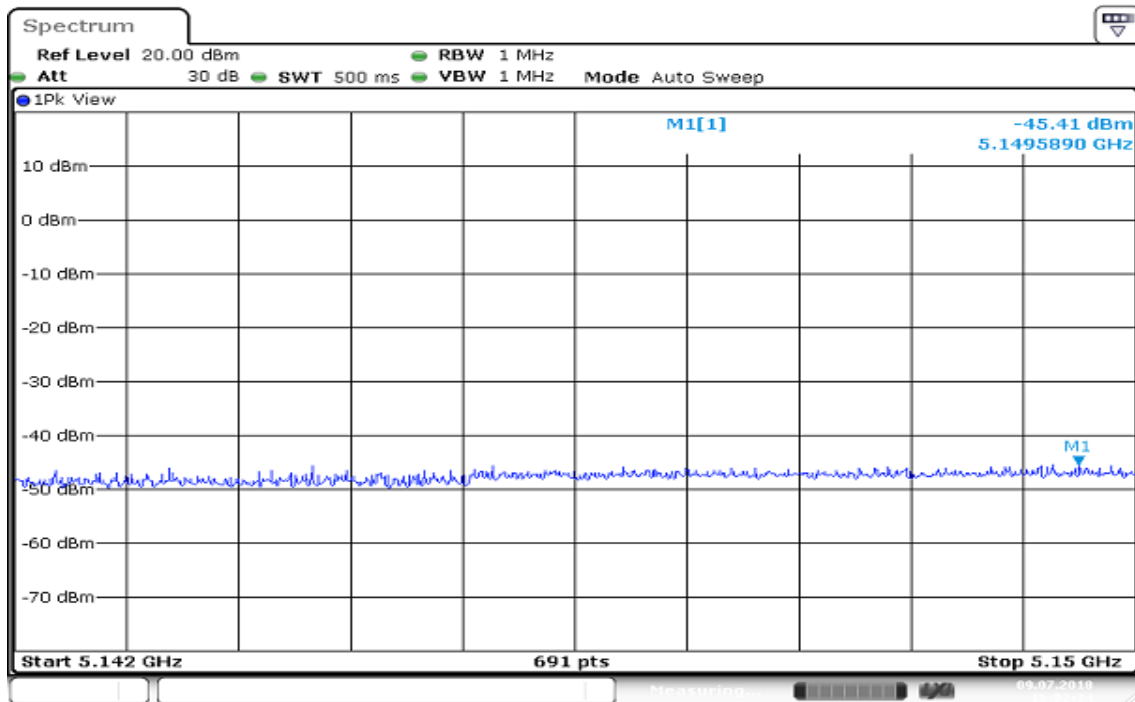
Ant 1 / CH Low(W52)



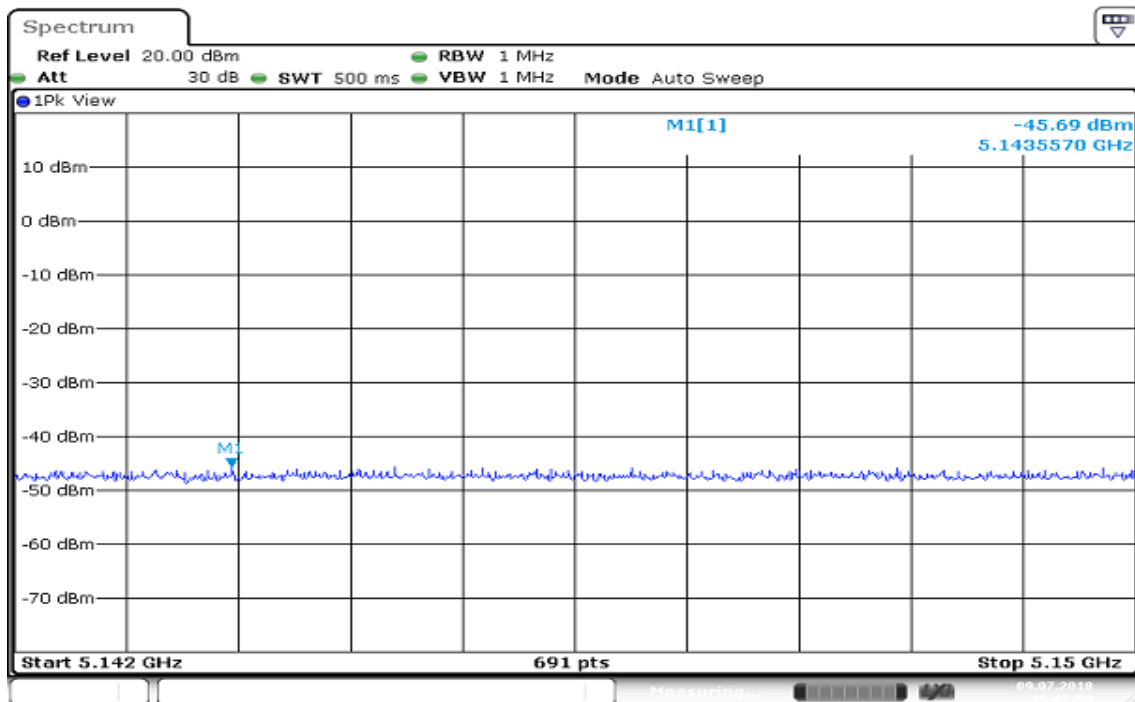
Date: 9 JUL 2018 15:59:57



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)

Date: 9 JUL 2018 16:02:34

Ant 1 / CH High(W52)

Date: 9 JUL 2018 16:07:50

Report No.: T180627D12-RJ3

TEST RESULT

5.2333GHz ~ 5.24GHz

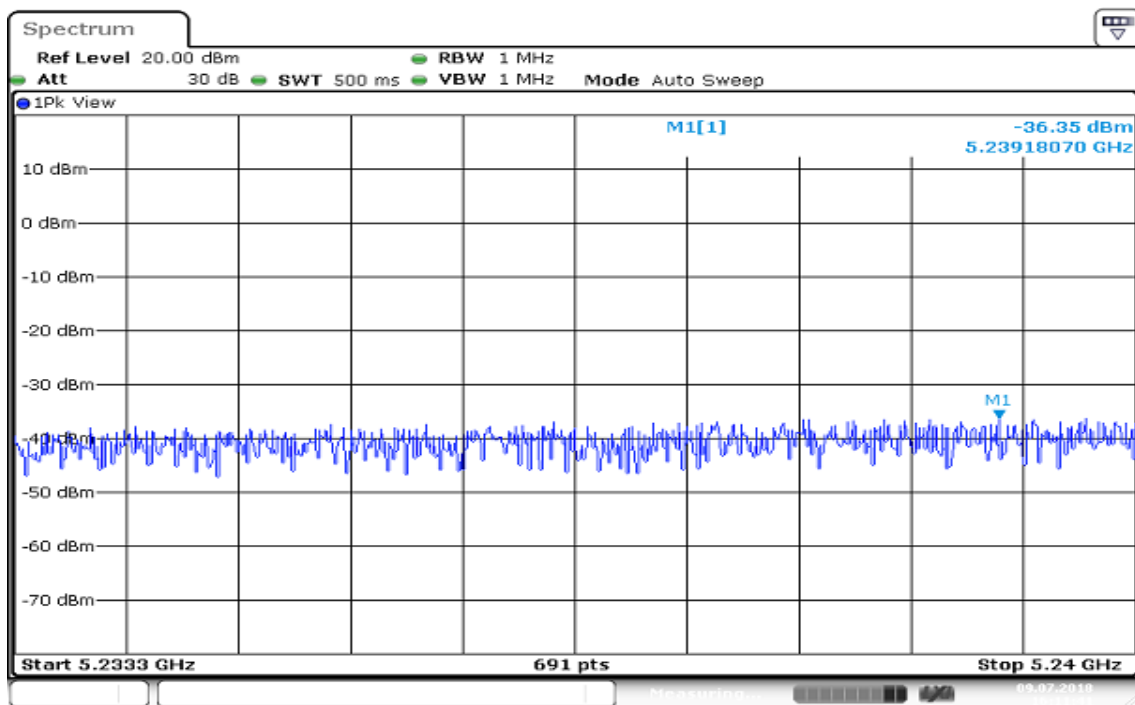
(W53)

(2) 5.2333MHz~less than 5240MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5239.1807	-36.35	16.92	11.40250	Normal Voltage
5300.0000	5238.3177	-45.33	16.92	1.44212	
5320.0000	5235.1374	-44.02	16.92	1.94984	

TEST PLOTS

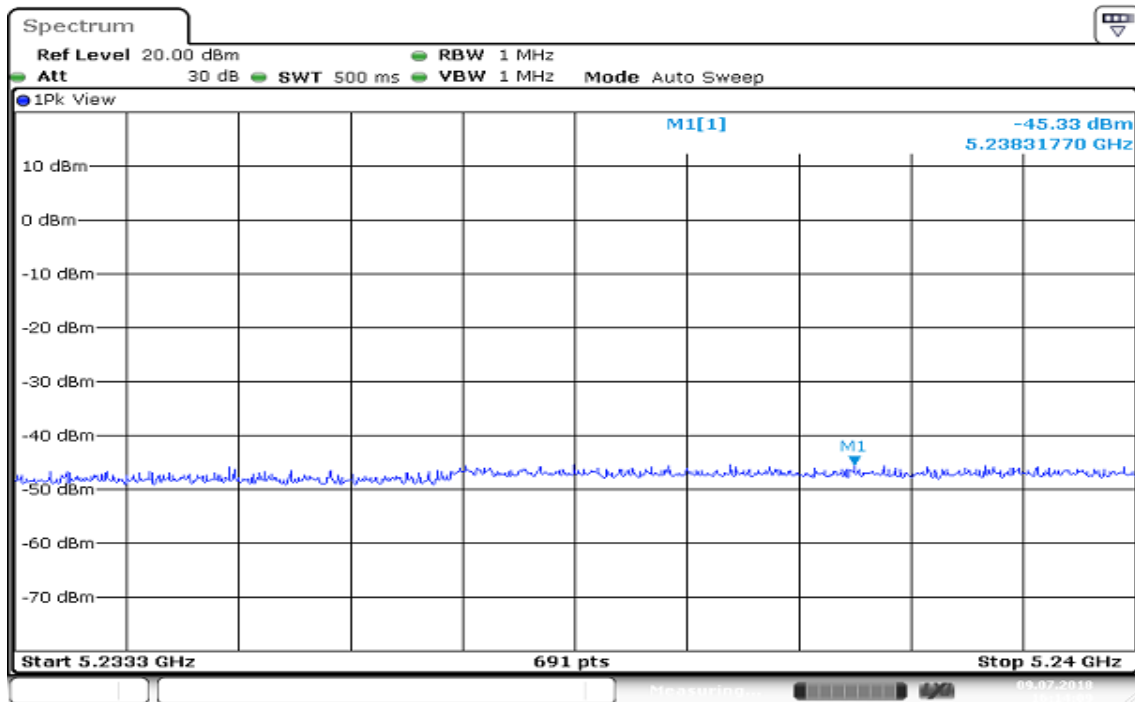
Ant 1 / CH Low(W53)



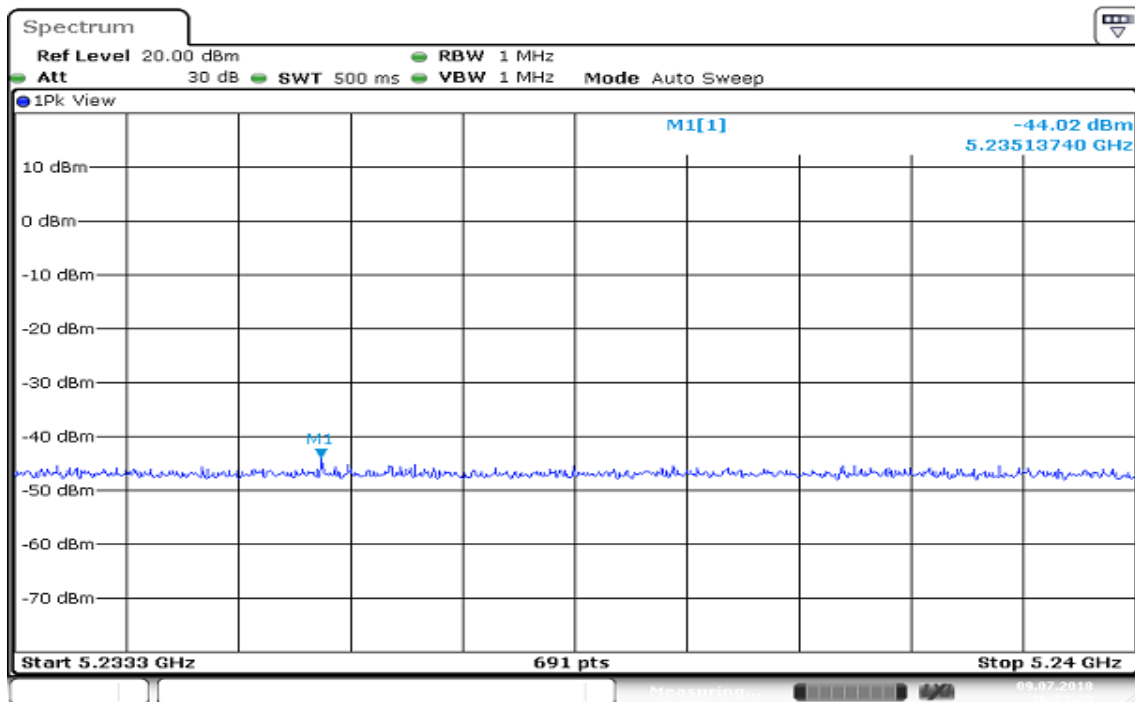
Date: 9 JUL 2018 16:11:42



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W53)

Date: 9 JUL 2018 16:14:10

Ant 1 / CH High(W53)

Date: 9 JUL 2018 16:23:24

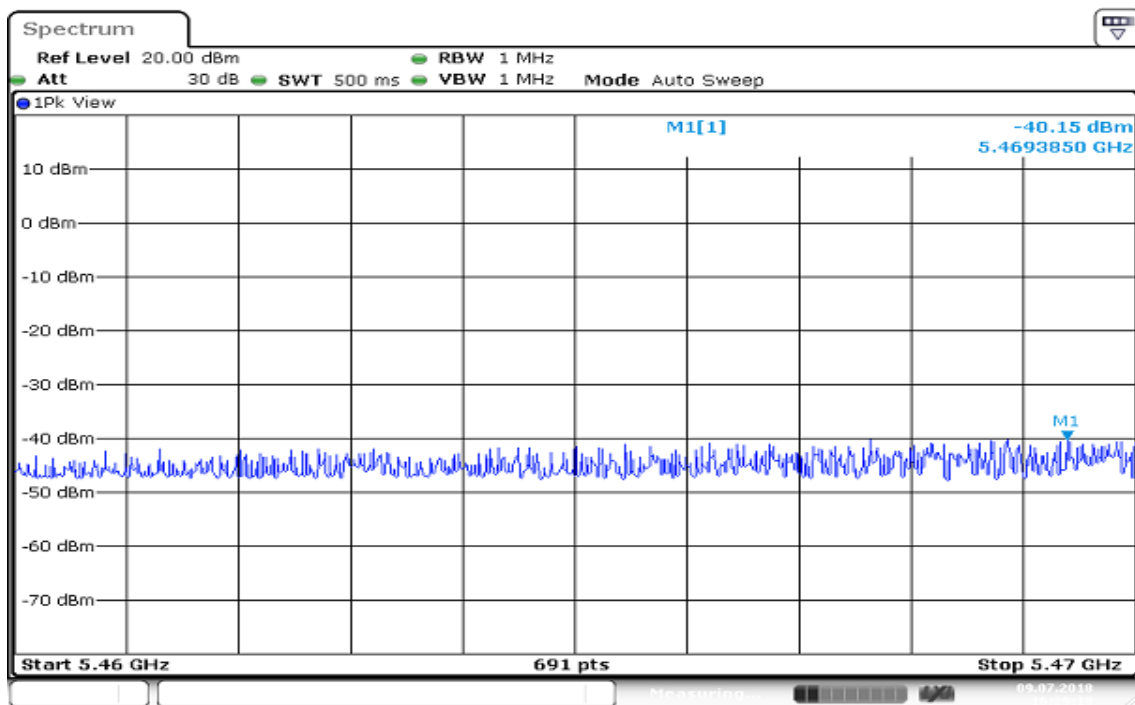


Report No.: T180627D12-RJ3

TEST RESULT**5.46GHz ~ 5.47GHz****(W56)**

(2) 5460MHz~less than 5470MHz

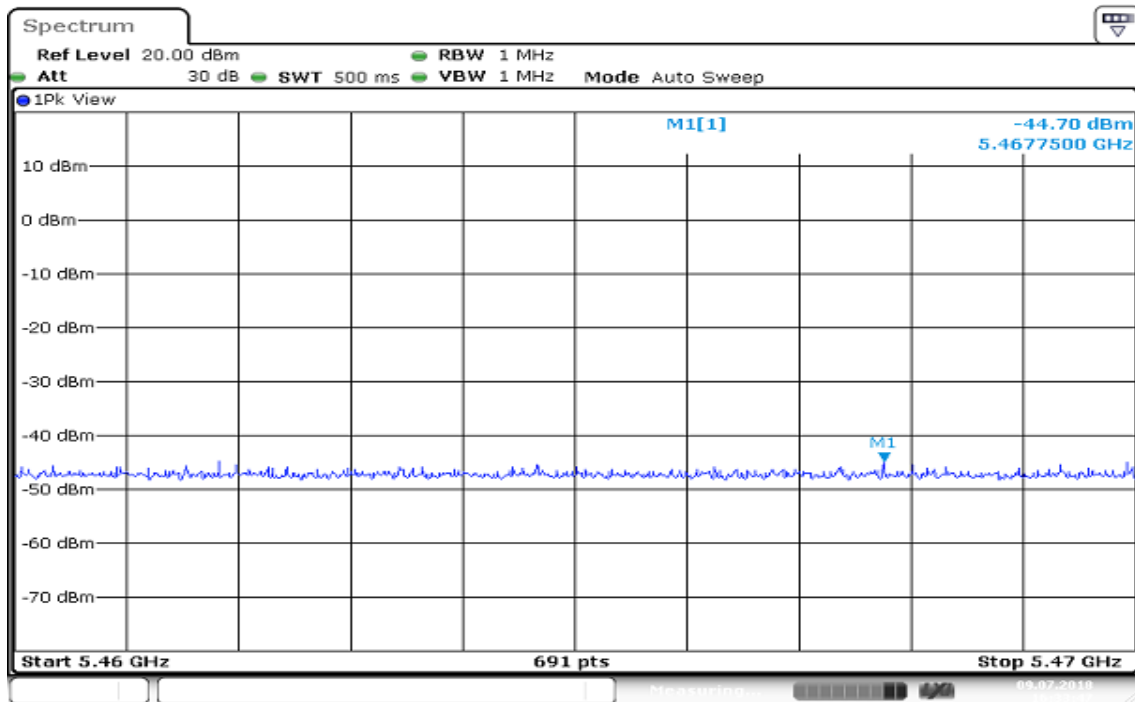
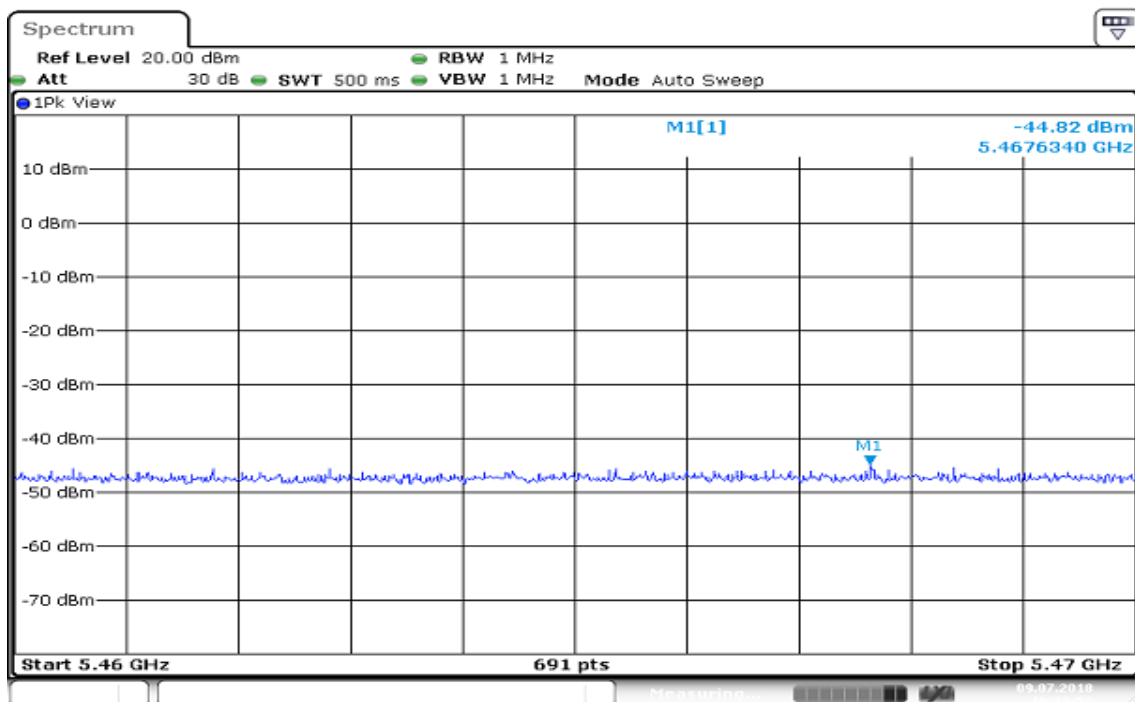
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5469.3850	-40.15	16.92	4.75335	Normal Voltage
5600.0000	5467.7500	-44.70	16.92	1.66725	
5700.0000	5467.6340	-44.82	16.92	1.62181	

TEST PLOTS**Ant 1 / CH Low(W56)**

Date: 9 JUL 2018 16:29:18



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)**Ant 1 / CH High(W56)**

Report No.: T180627D12-RJ3

TEST RESULT

5.25GHz ~ 5.251GHz

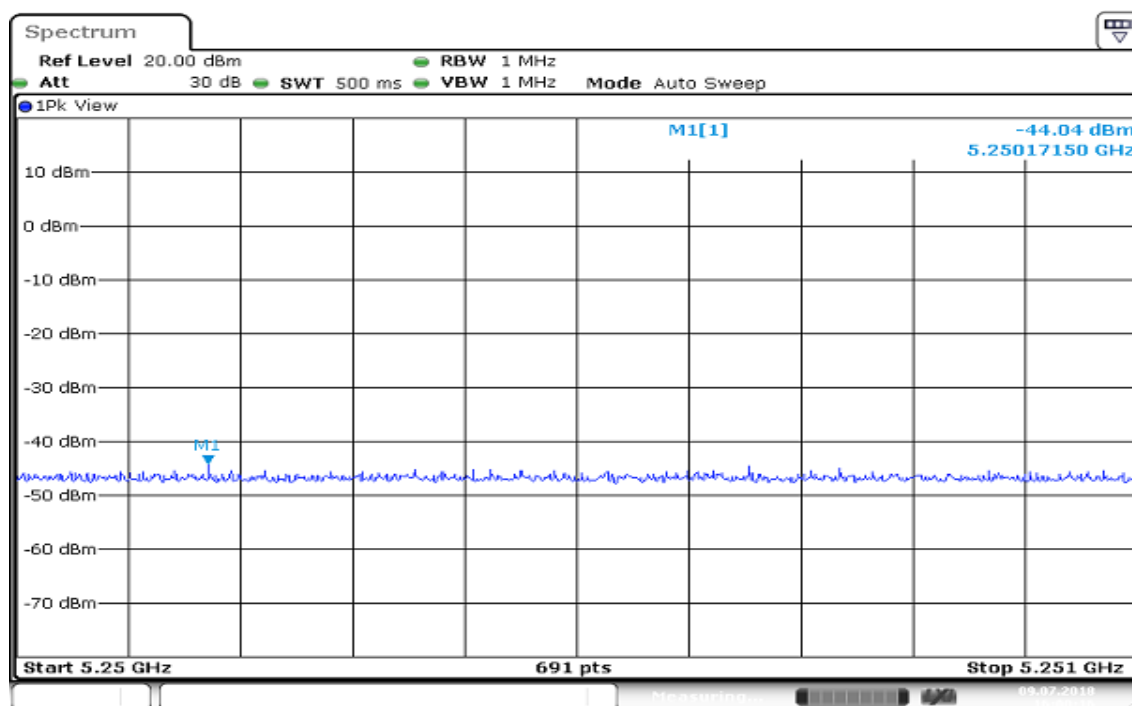
(W52)

(3) 5250MHz~less than 5251MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5250.1715	-44.04	16.92	1.94089	Normal Voltage
5200.0000	5250.4421	-44.09	16.92	1.91867	
5240.0000	5250.0543	-33.08	16.92	24.21029	

TEST PLOTS

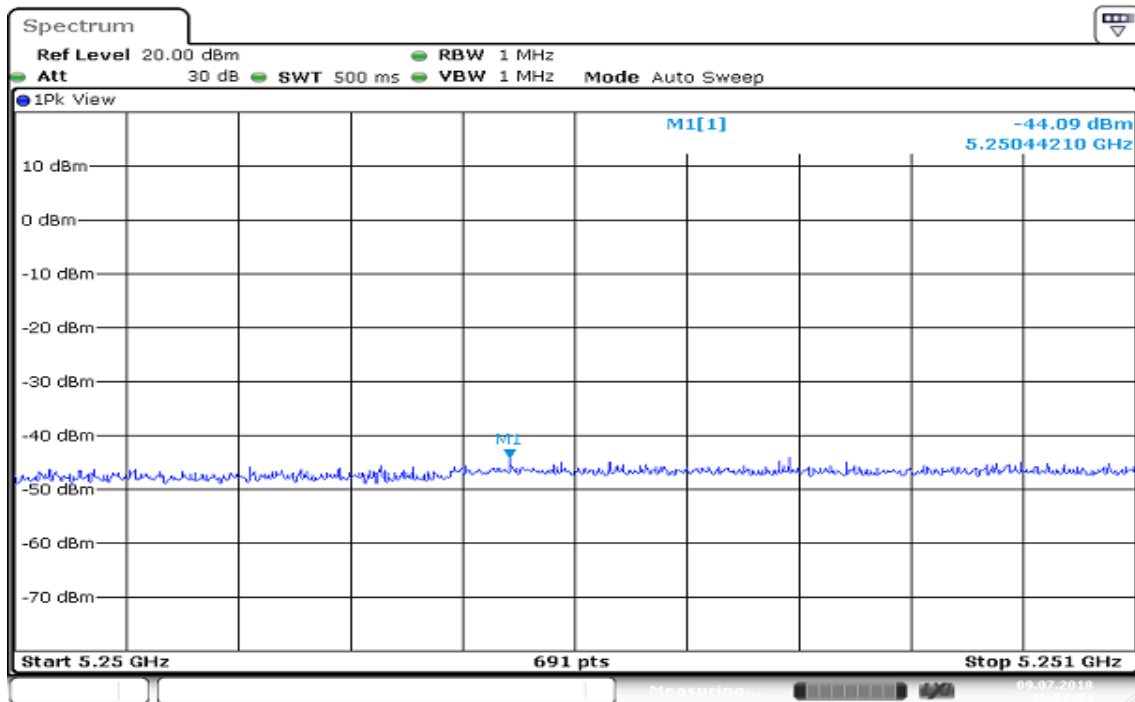
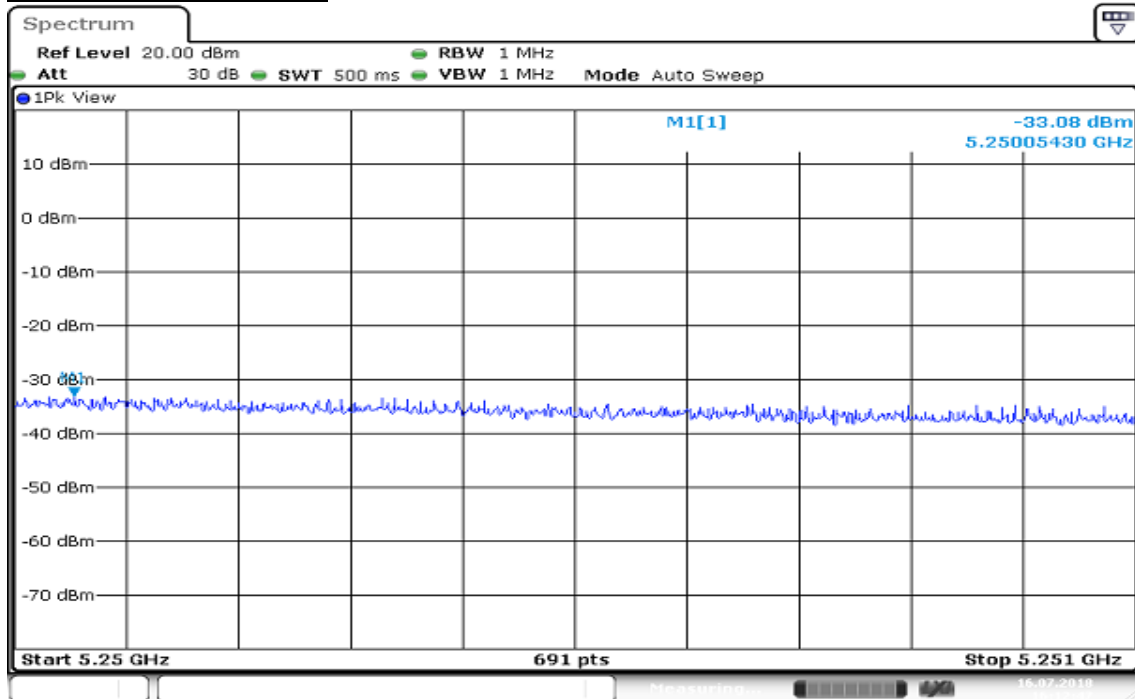
Ant 1 / CH Low(W52)



Date: 9 JUL 2018 16:00:16



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)**Ant 1 / CH High(W52)**

Report No.: T180627D12-RJ3

TEST RESULT

5.24GHz ~ 5.249GHz

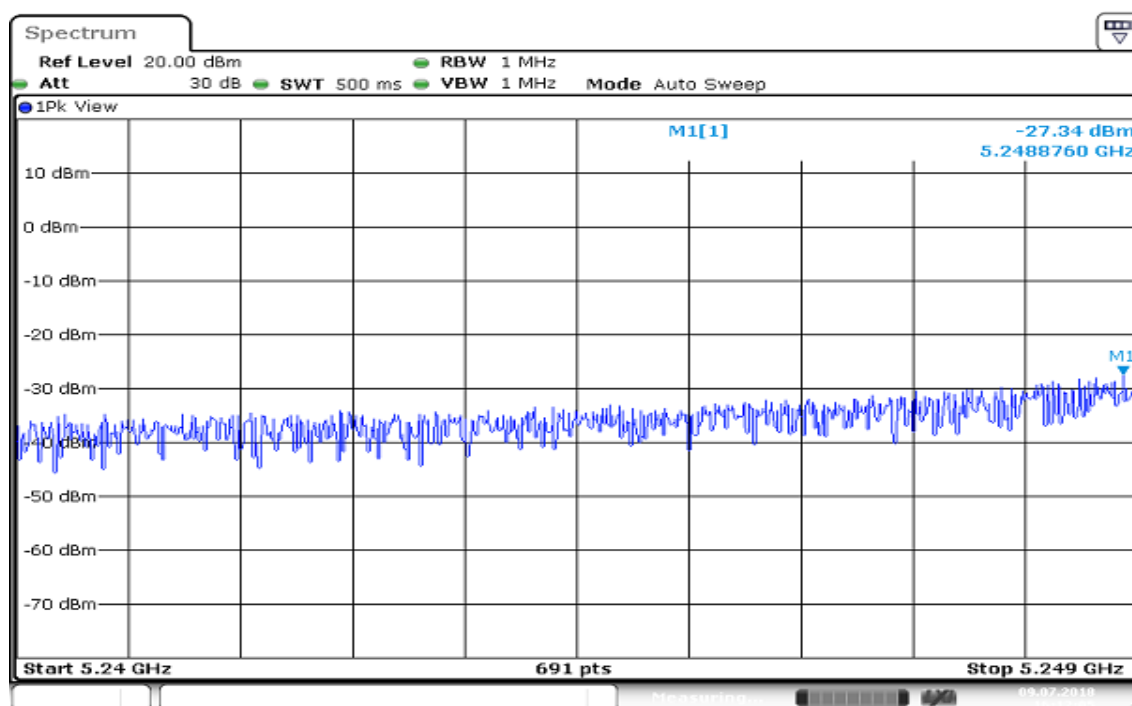
(W53)

(3) 5240MHz~less than 5249MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5248.8760	-27.34	16.92	90.78205	Normal Voltage
5300.0000	5247.3000	-44.86	16.92	1.60694	
5320.0000	5248.5900	-44.95	16.92	1.57398	

TEST PLOTS

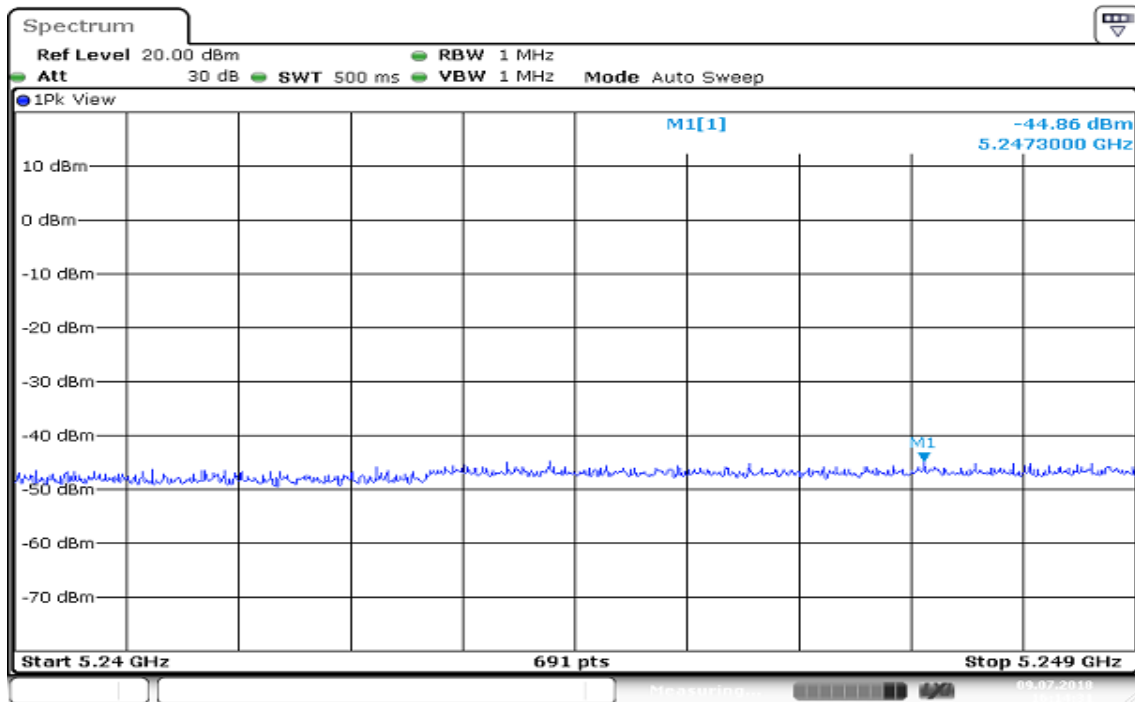
Ant 1 / CH Low(W53)



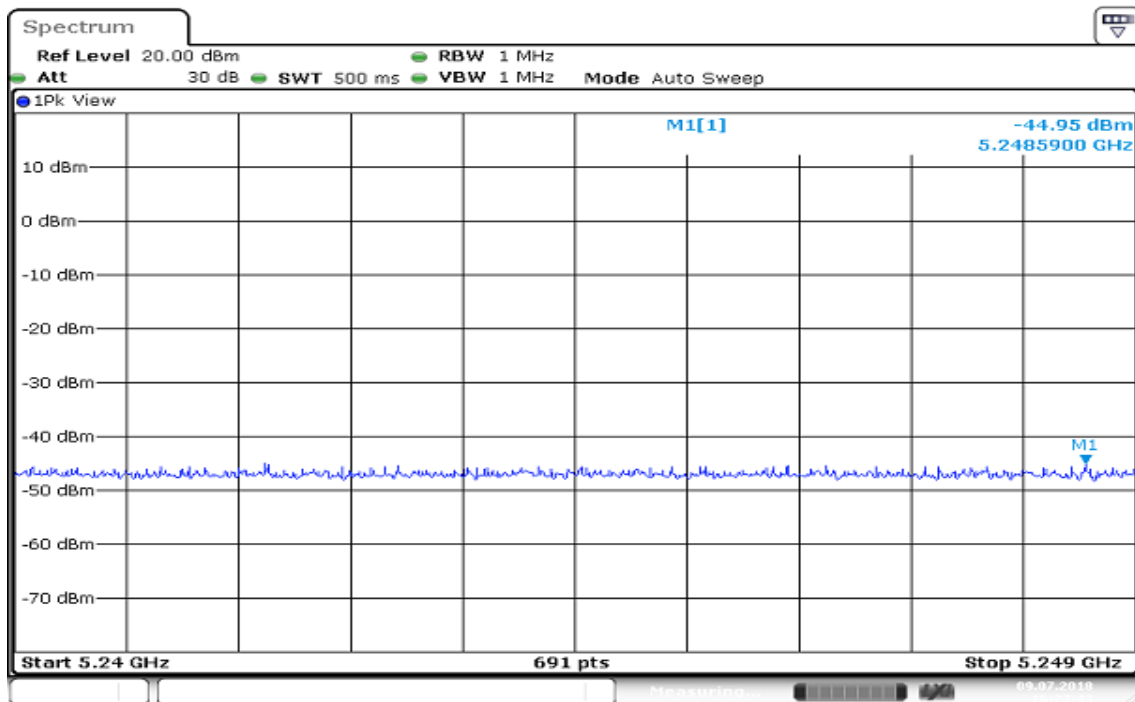
Date: 9 JUL 2018 16:12:04



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W53)

Date: 9 JUL 2018 16:14:31

Ant 1 / CH High(W53)

Date: 9 JUL 2018 16:23:44

TEST RESULT

5.725GHz ~ 5.74GHz

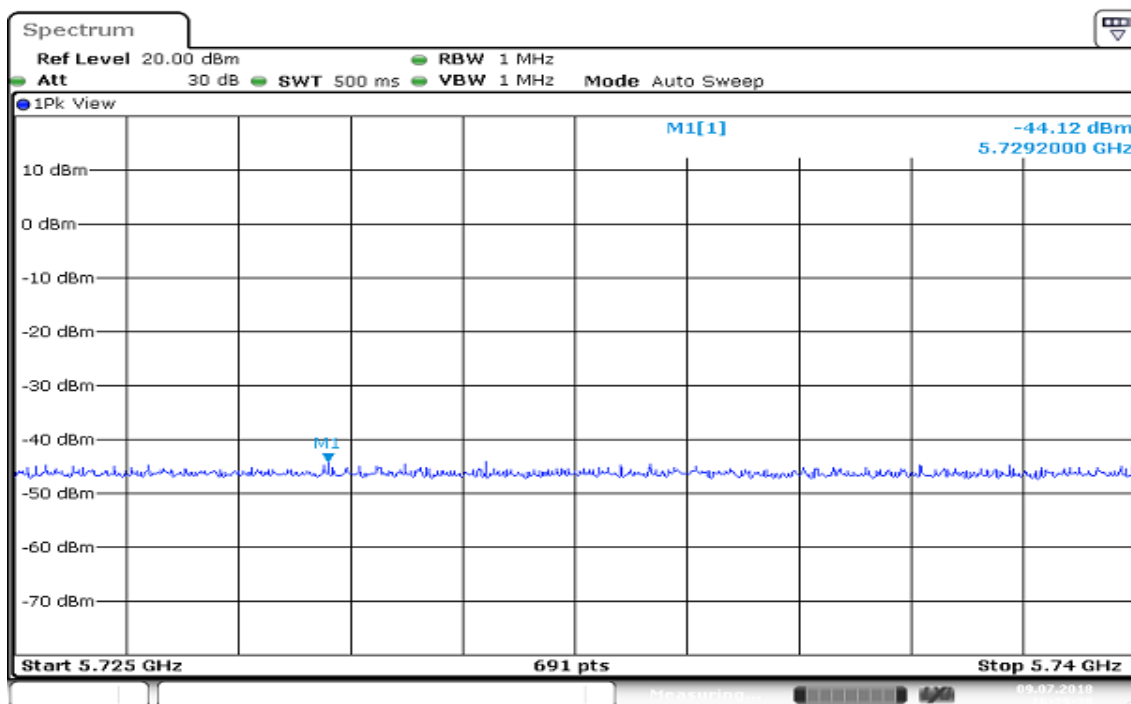
(W56)

(3) 5725MHz~less than 5740MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5729.2000	-44.12	16.92	1.90546	Normal Voltage
5600.0000	5729.8730	-44.30	16.92	1.82810	
5700.0000	5726.2480	-36.63	16.92	10.69055	

TEST PLOTS

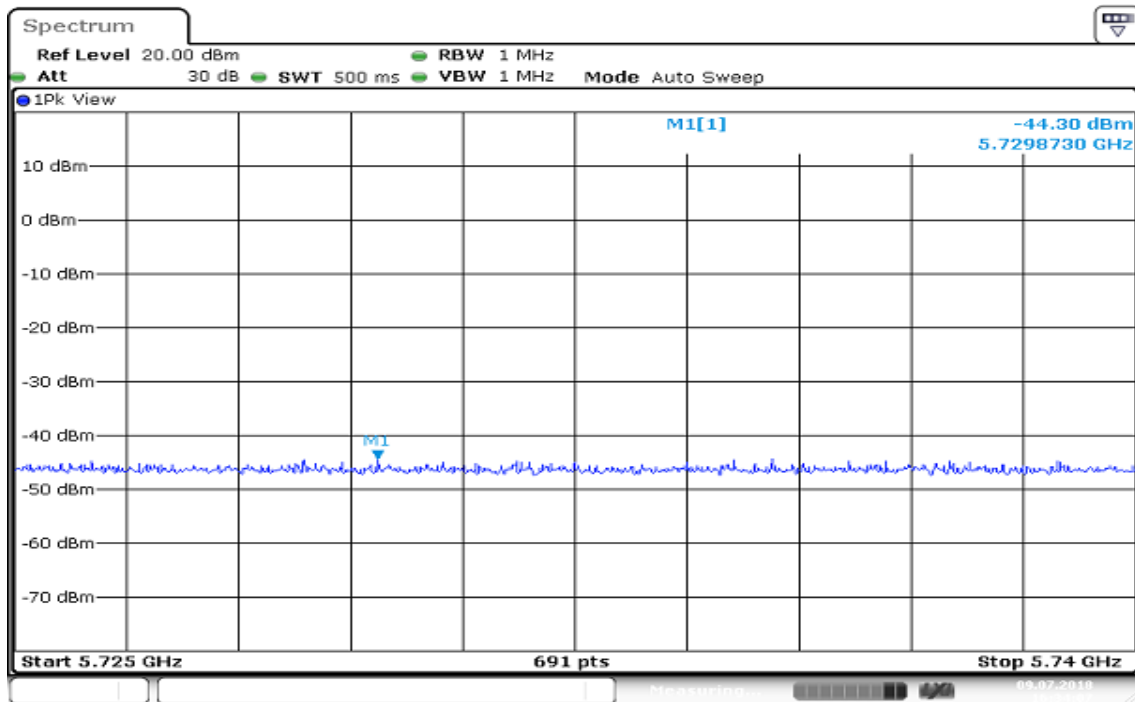
Ant 1 / CH Low(W56)



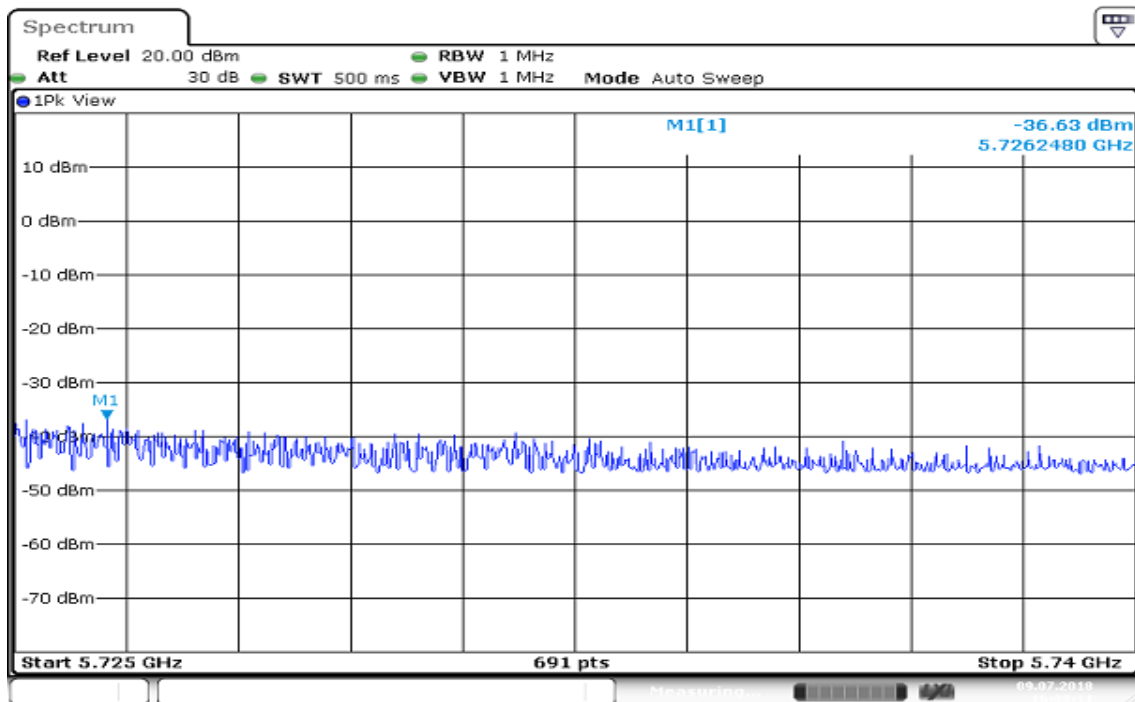
Date: 9 JUL 2018 16:29:38



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)

Date: 9 JUL 2018 16:24:08

Ant 1 / CH High(W56)

Date: 9 JUL 2018 16:29:11



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TEST RESULT

5.251GHz ~ 5.26GHz

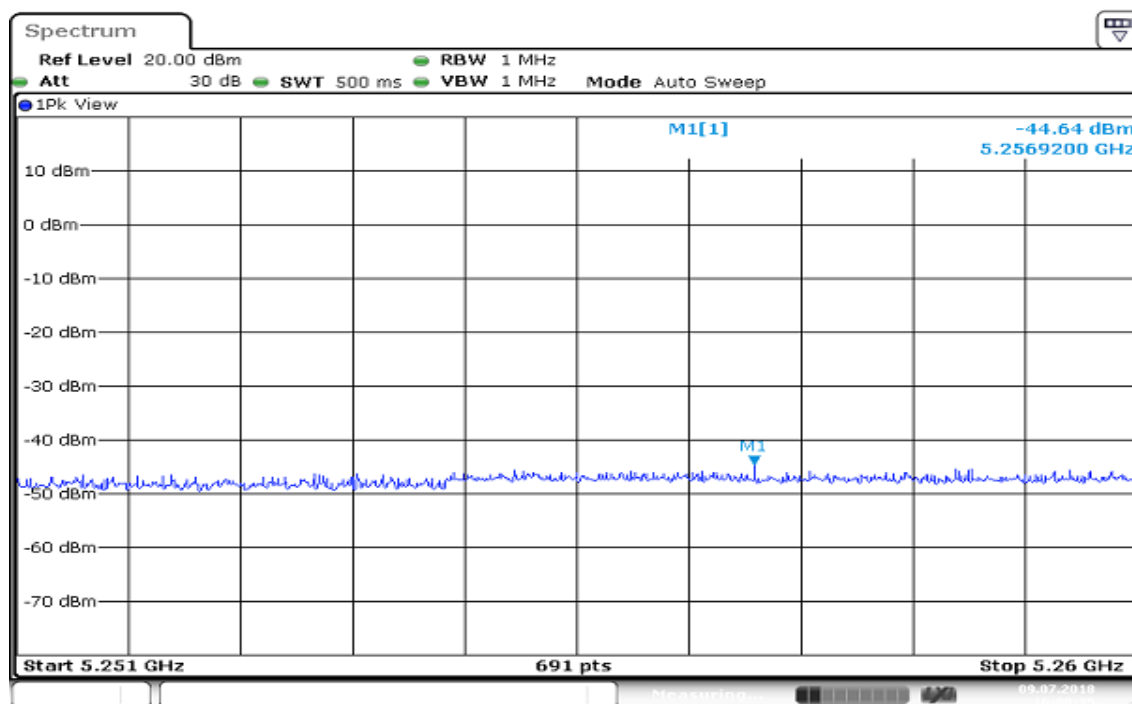
(W52)

(4) 5251MHz~5260MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5256.9200	-44.64	16.92	1.69044	Normal Voltage
5200.0000	5253.9370	-44.88	16.92	1.59956	
5240.0000	5251.0720	-36.02	16.92	12.30269	

TEST PLOTS

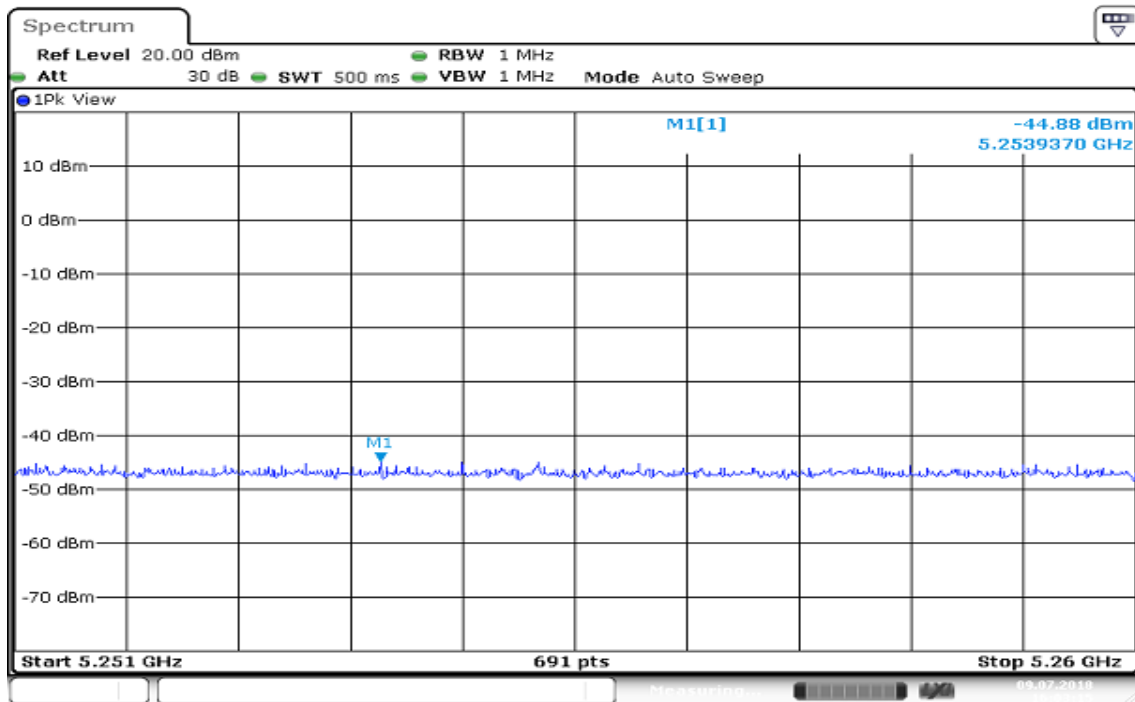
Ant 1 / CH Low(W52)



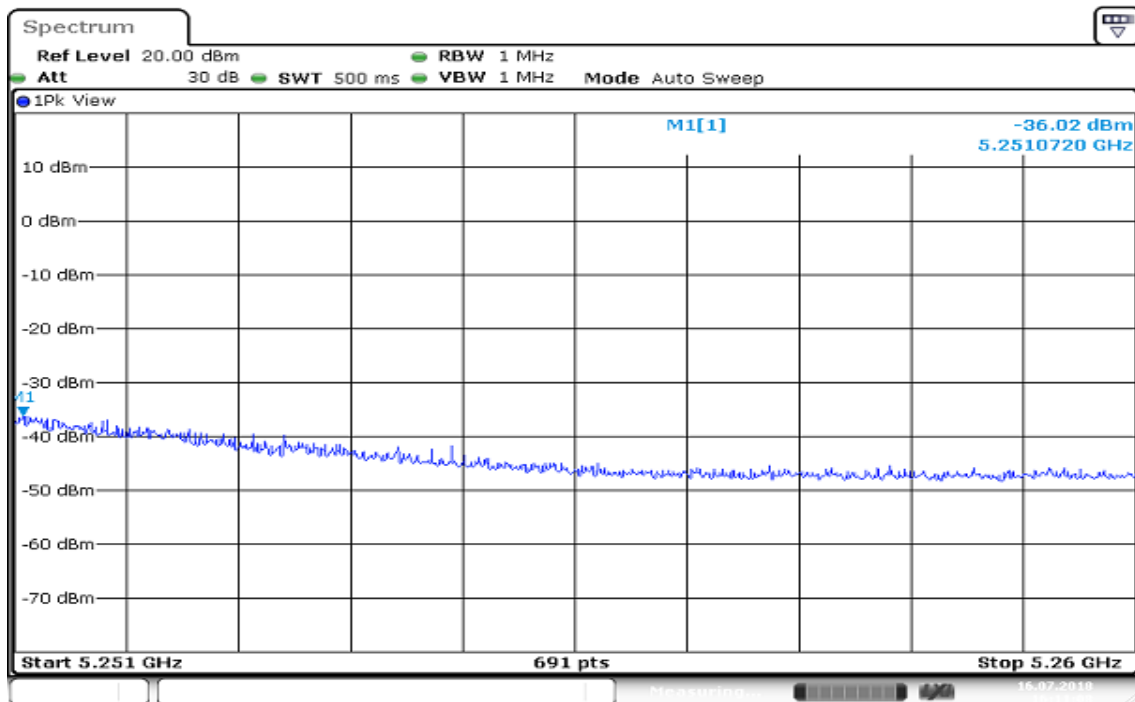
Date: 9 JUL 2018 16:00:35



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)

Date: 9 JUL 2018 16:03:16

Ant 1 / CH High(W52)

Date: 16 JUL 2018 16:11:08

Report No.: T180627D12-RJ3

TEST RESULT

5.249GHz ~ 5.25GHz

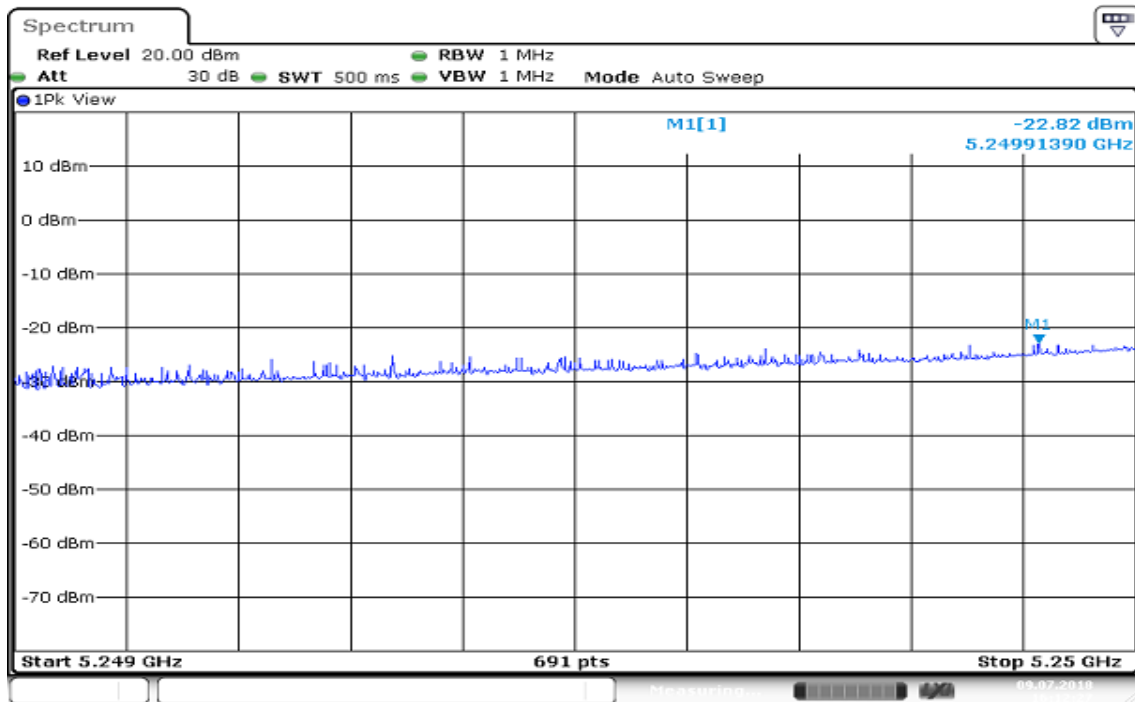
(W53)

(4) 5249MHz~5250MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5249.9139	-22.82	16.92	257.03958	Normal Voltage
5300.0000	5249.9356	-44.31	16.92	1.82390	
5320.0000	5249.1281	-45.08	16.92	1.52757	

TEST PLOTS

Ant 1 / CH Low(W53)

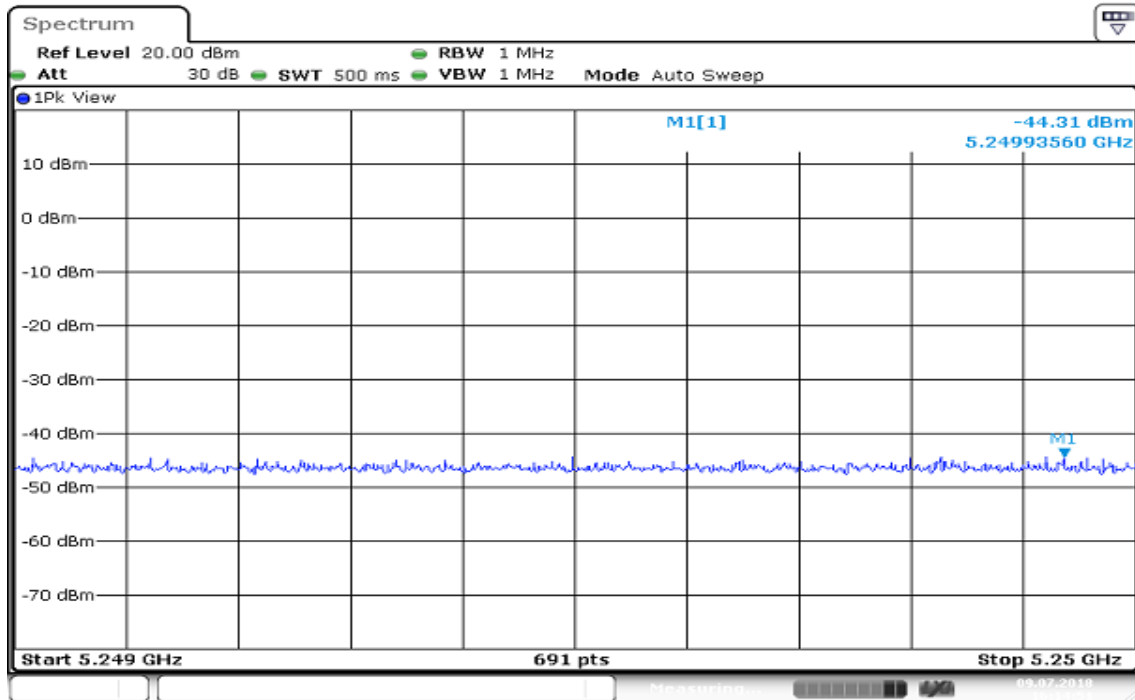


Date: 9 JUL 2018 16:12:28



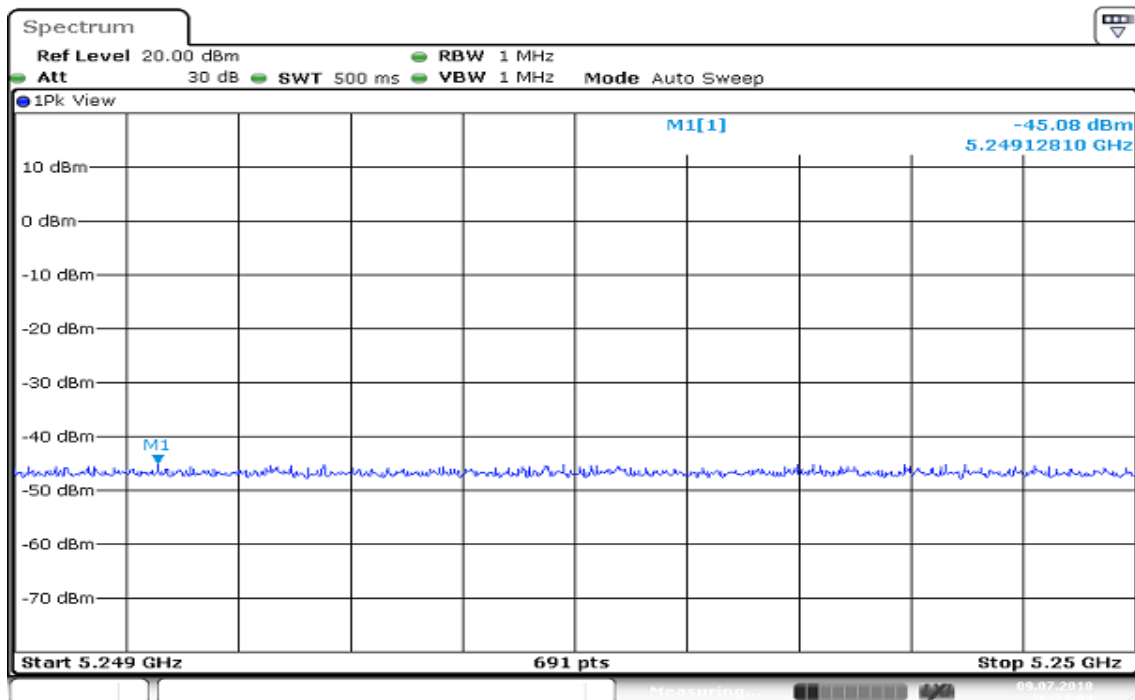
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W53)



Date: 9 JUL 2018 16:14:51

Ant 1 / CH High(W53)



Date: 9 JUL 2018 16:24:05

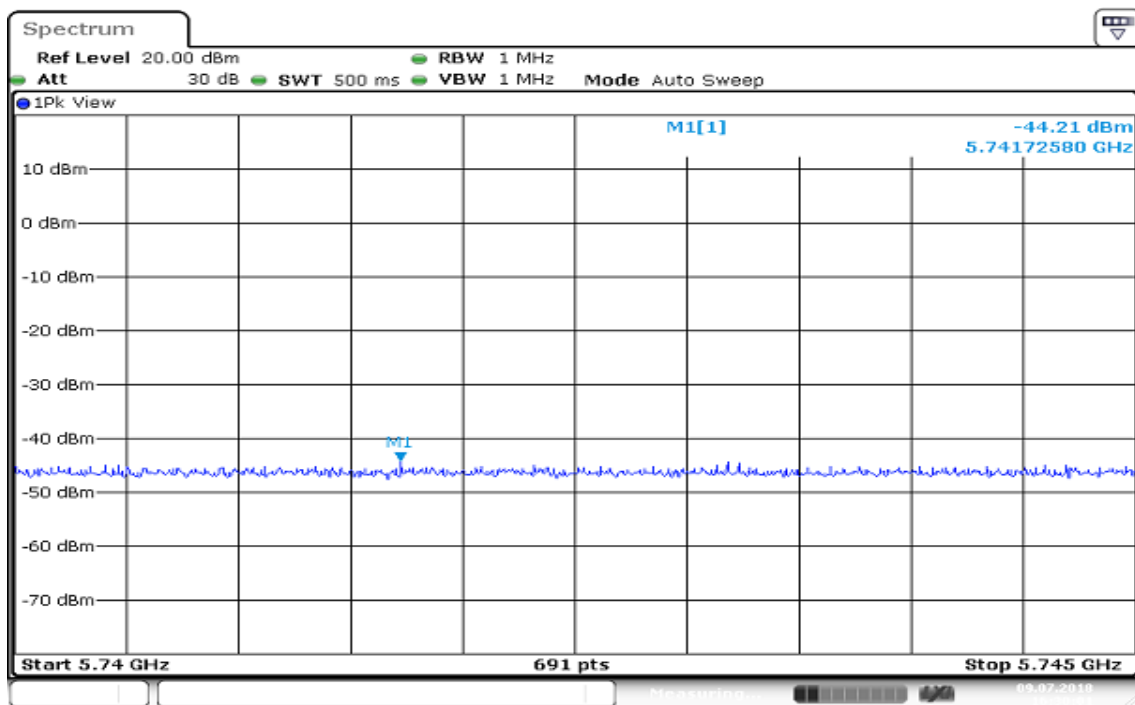


Report No.: T180627D12-RJ3

TEST RESULT**5.74GHz ~ 5.745GHz****(W56)**

(4) 5740MHz~5745MHz

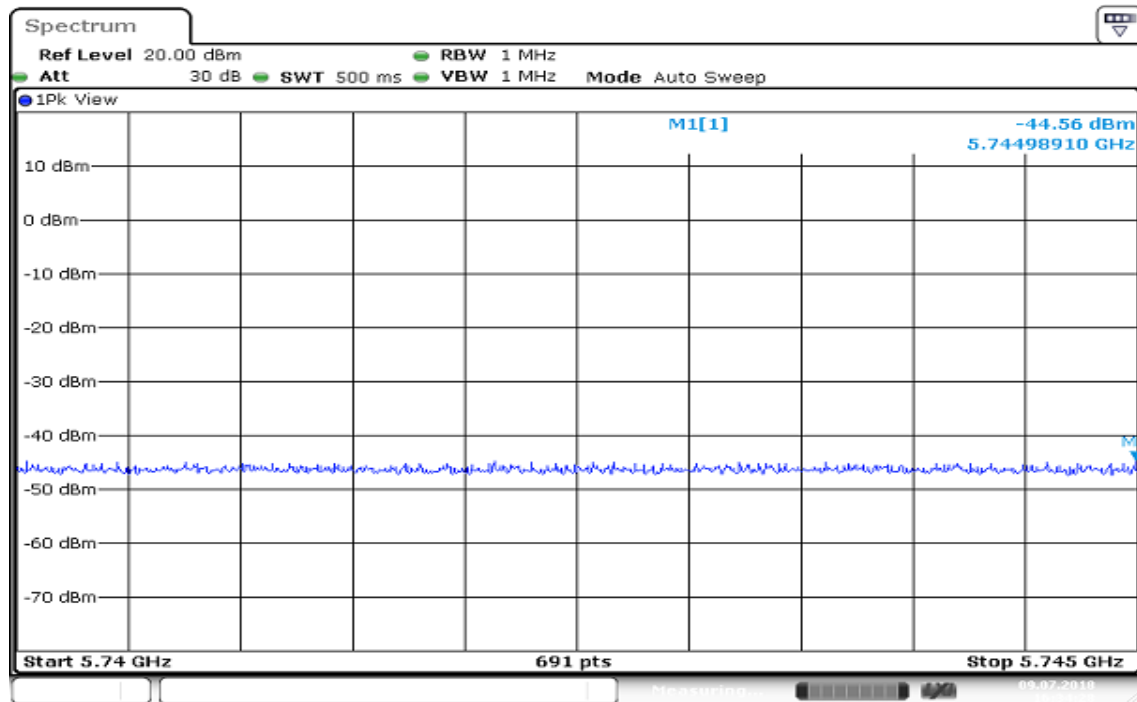
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5500.0000	5741.7258	-44.21	16.92	1.86638	Normal Voltage
5600.0000	5744.9891	-44.56	16.92	1.72187	
5700.0000	5742.8256	-44.36	16.92	1.80302	

TEST PLOTS**Ant 1 / CH Low(W56)**

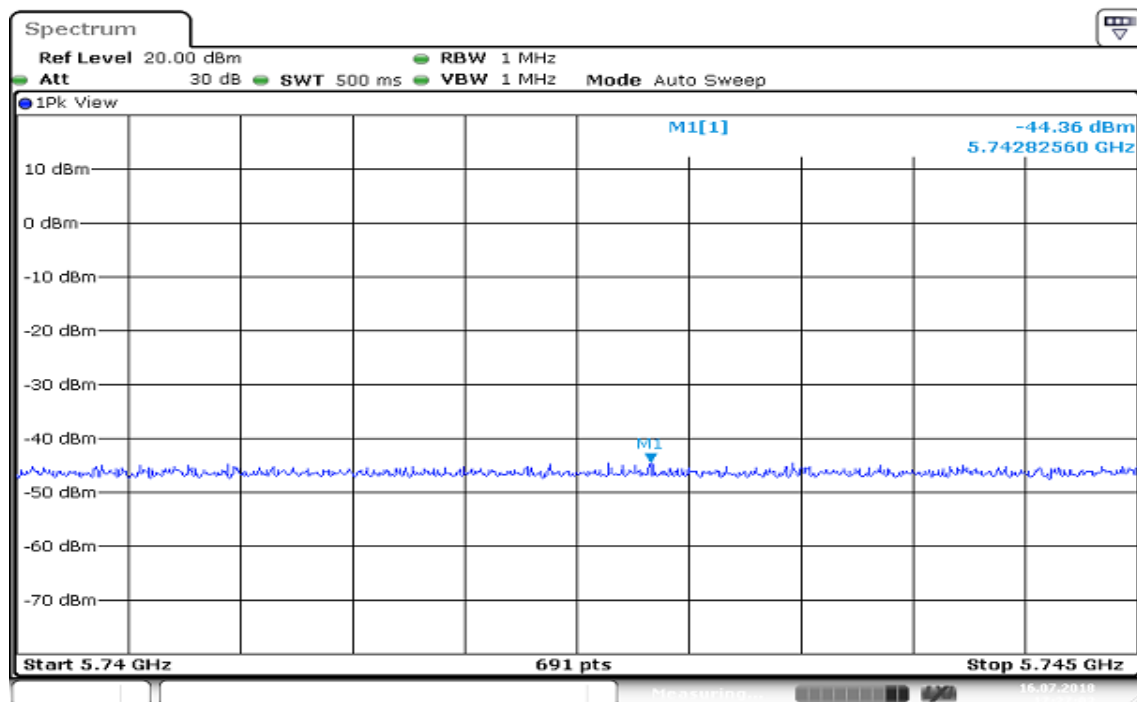
Date: 9 JUL 2018 16:20:02



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)

Date: 9 JUL 2018 16:24:28

Ant 1 / CH High(W56)

Date: 16 JUL 2018 17:27:04

Report No.: T180627D12-RJ3

TEST RESULT

5.26GHz ~ 5.2667GHz

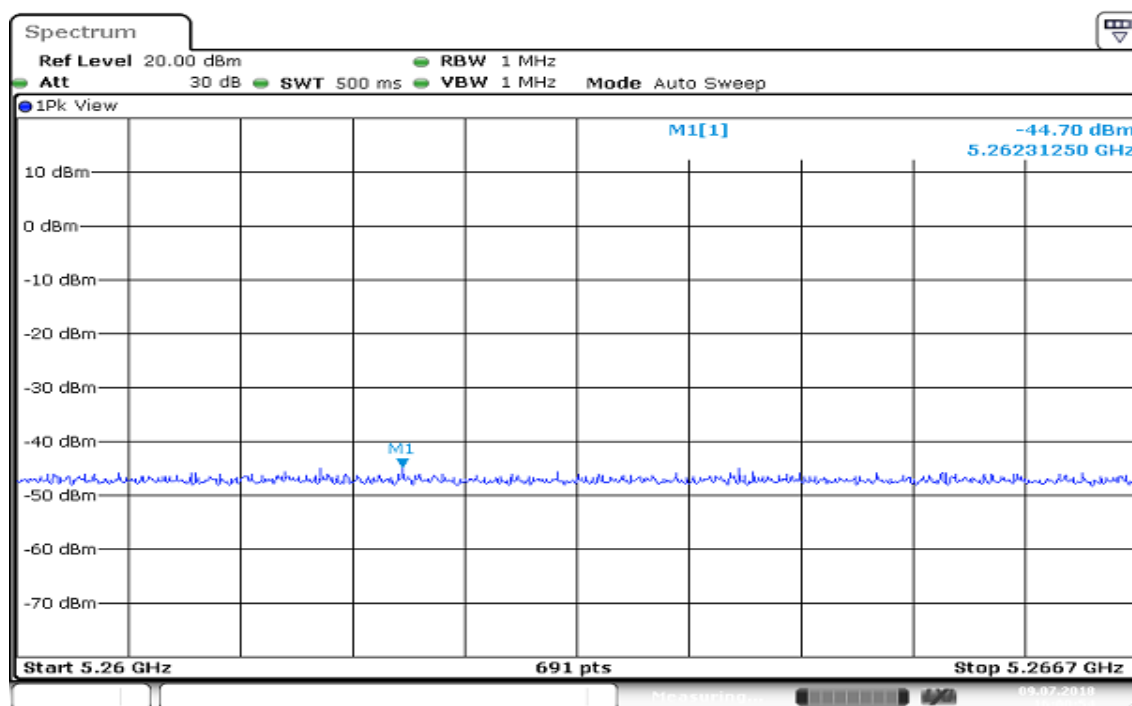
(W52)

(5) 5260MHz~5.2667MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5180.0000	5262.3125	-44.70	16.92	1.66725	Normal Voltage
5200.0000	5266.6758	-45.21	16.92	1.48252	
5240.0000	5263.5730	-44.49	16.92	1.74985	

TEST PLOTS

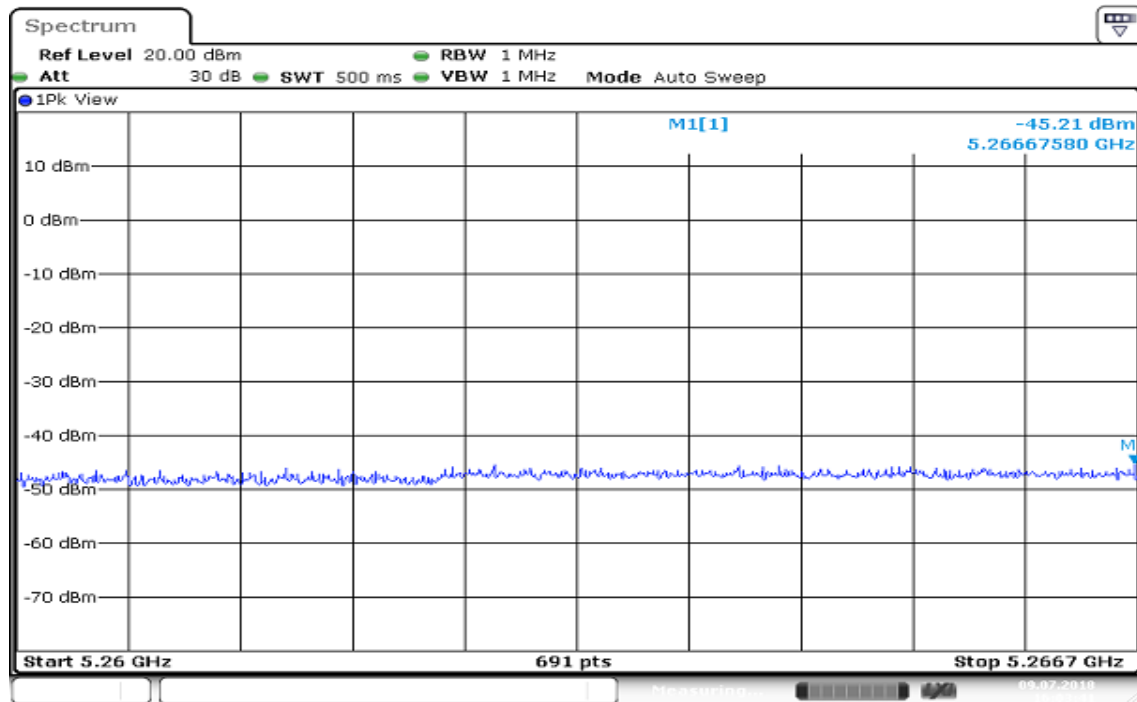
Ant 1 / CH Low(W52)



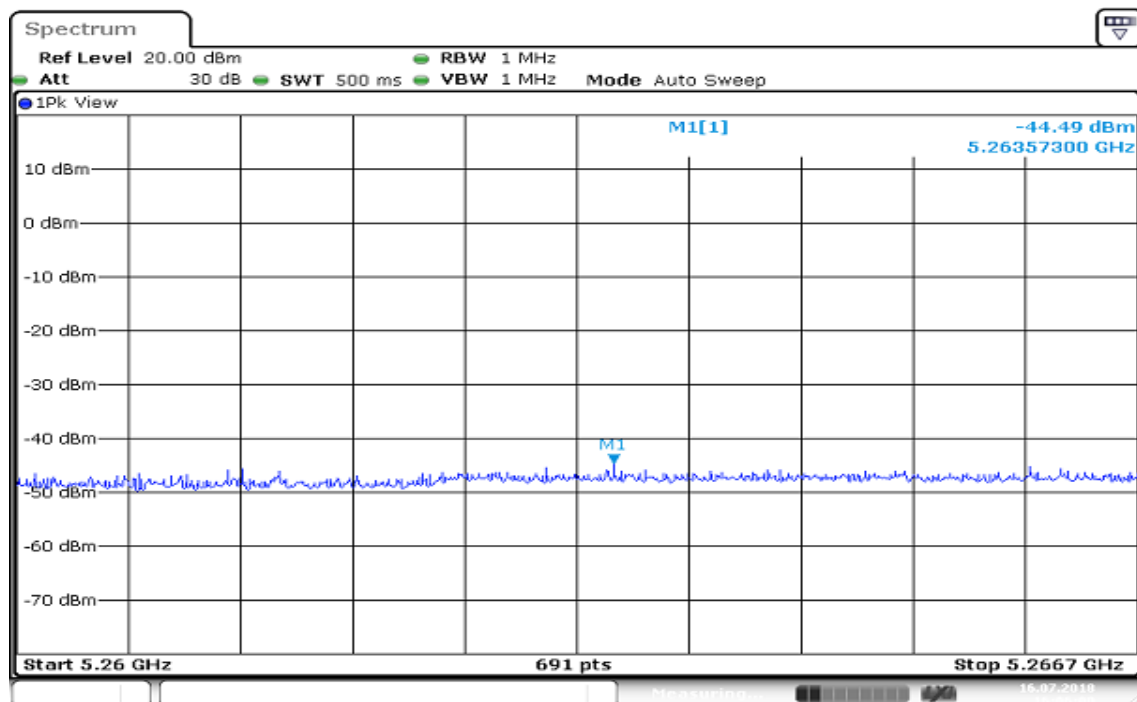
Date: 9 JUL 2018 16:00:55



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)

Date: 9 JUL 2018 16:03:41

Ant 1 / CH High(W52)

Date: 16 JUL 2018 16:06:00



Report No.: T180627D12-RJ3

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TEST RESULT

5.35GHz ~ 5.365GHz

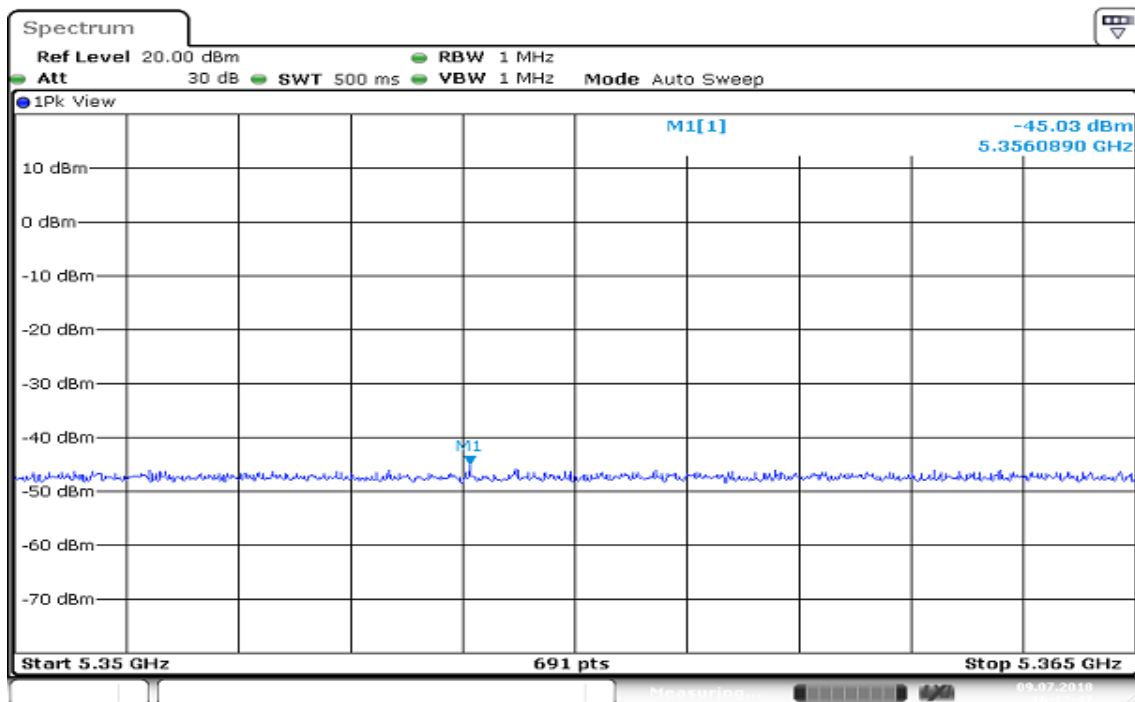
(W53)

(5) 5350MHz~5365MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5260.0000	5356.0890	-45.03	16.92	1.54525	Normal Voltage
5300.0000	5360.7560	-44.91	16.92	1.58855	
5320.0000	5359.0630	-45.35	16.92	1.43549	

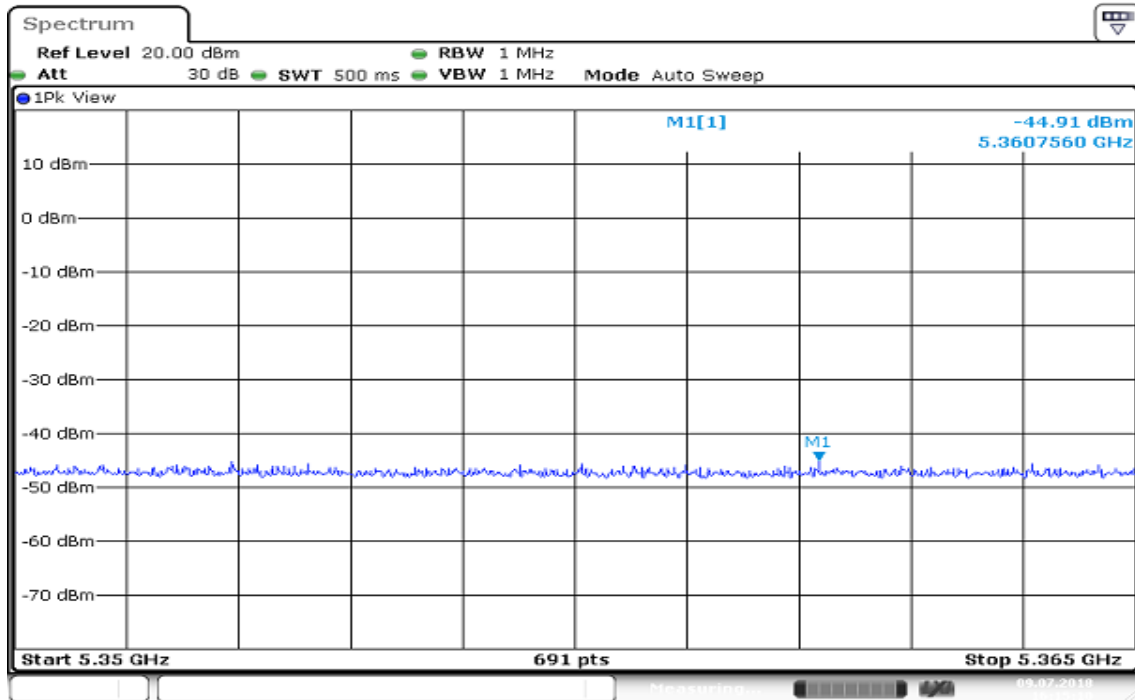
TEST PLOTS

Ant 1 / CH Low(W53)

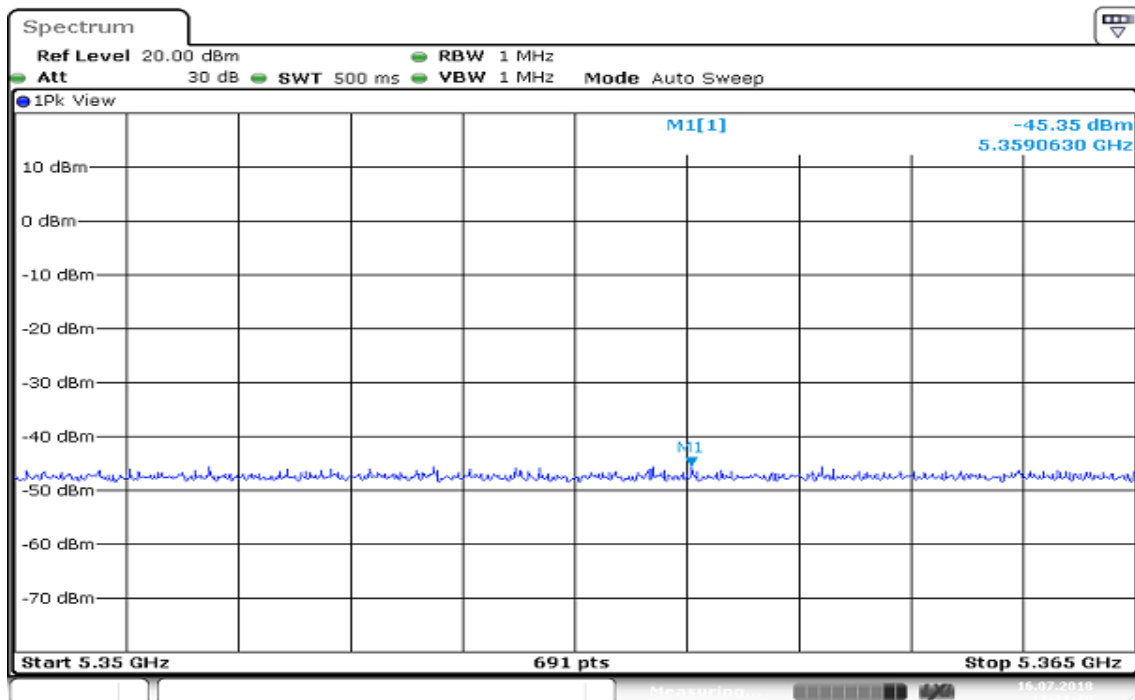




Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W53)

Date: 9 JUL 2018 16:15:11

Ant 1 / CH High(W53)

Date: 16 JUL 2018 17:21:31

Report No.: T180627D12-RJ3

TEST RESULT

5.2667GHz ~ 5.365GHz

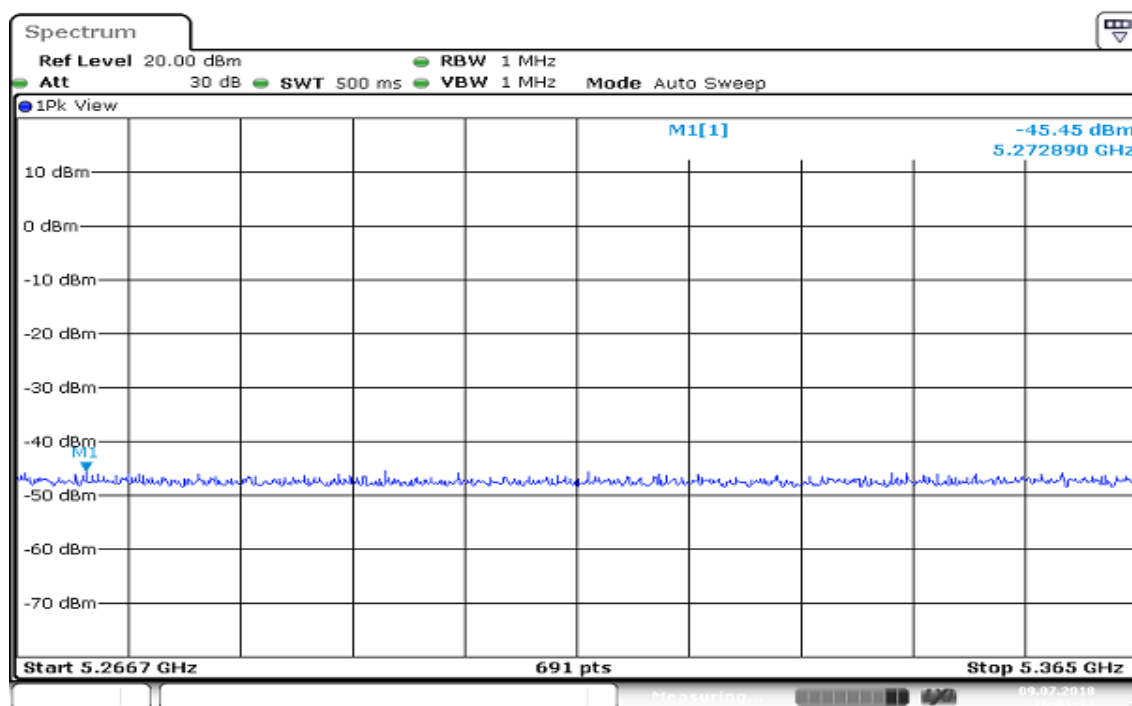
(W52)

(6) 5.2667MHz~5365MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5180.0000	5272.8900	-45.45	16.92	1.40281	Normal Voltage
5200.0000	5353.8300	-45.07	16.92	1.53109	
5240.0000	5267.9100	-52.22	16.92	0.29512	

TEST PLOTS

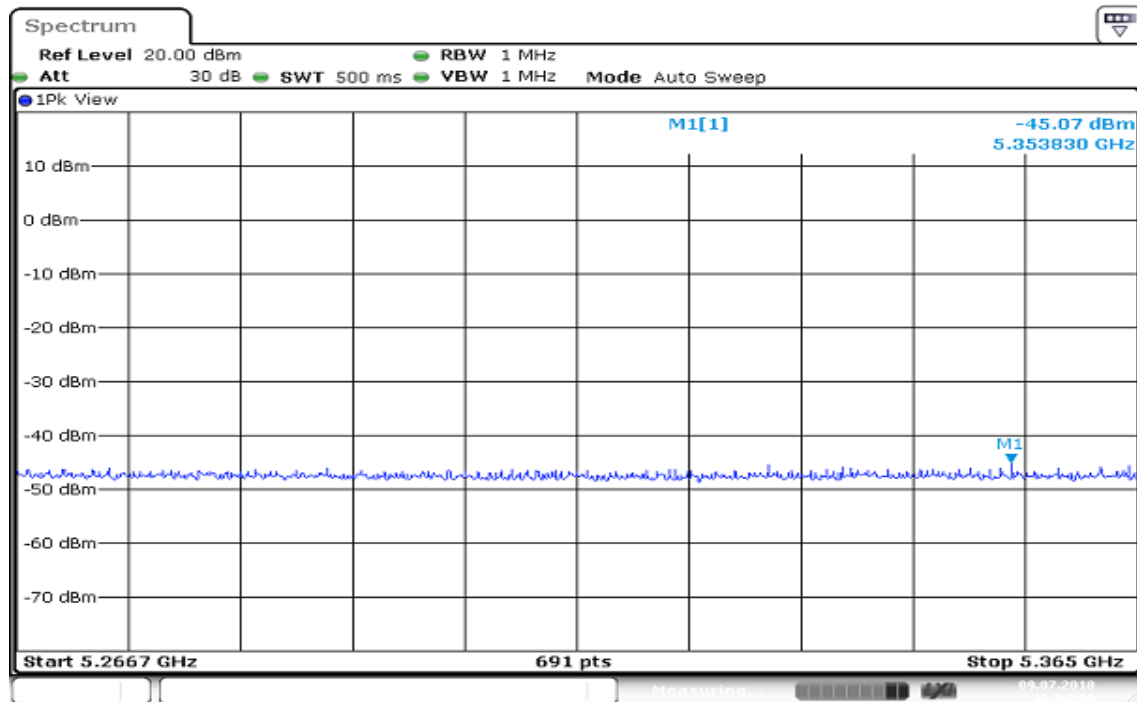
Ant 1 / CH Low(W52)



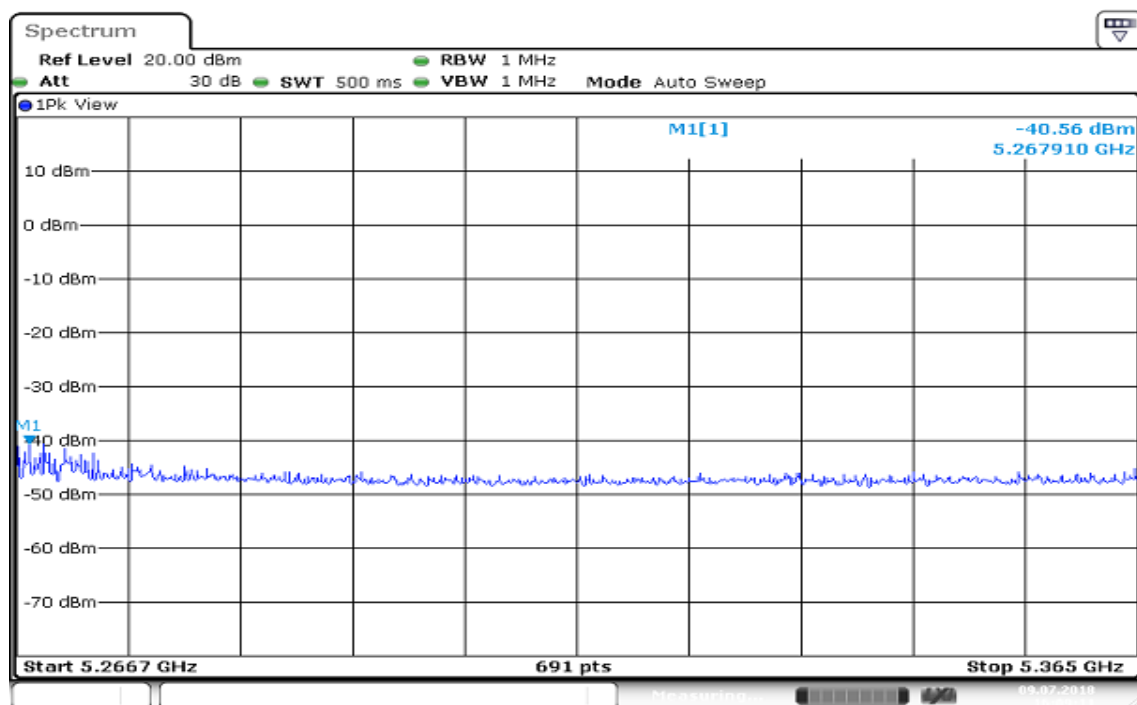
Date: 9 JUL 2018 16:01:14



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52)

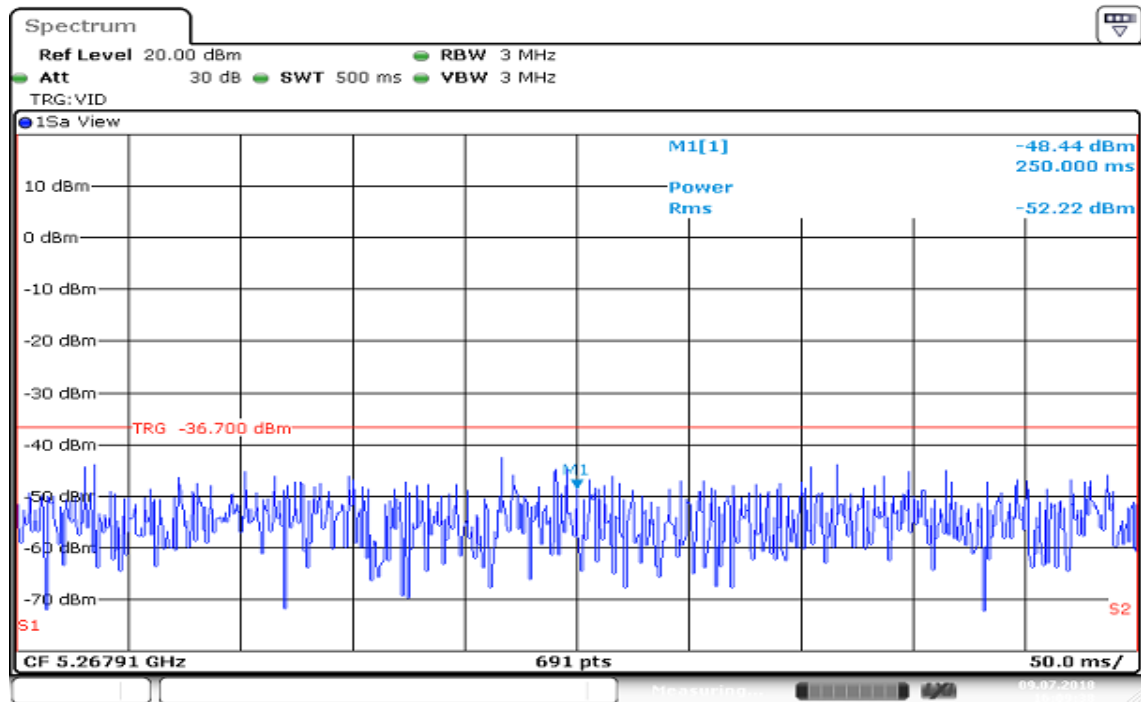
Date: 9 JUL 2018 16:04:00

Ant 1 / CH High(W52)**(Search)**

Date: 9 JUL 2018 16:09:12

Report No.: T180627D12-RJ3

(Detail)



Date: 9 JUL 2018 16:09:39



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7.7 ADJACENT CHANNEL LEAKAGE POWER

TEST RESULT

(W52&53)

Test Frequency	MHz	5180	5240	5320	5180	5240	5320	5180	5240	5320		
Adjacent Channel Leakage Power	-20MHz	dB	35.31	34.88	34.88							Limit \geq 25dB (18MHz)
	+20MHz	dB	33.09	35.20	35.31							Limit \geq 25dB (18MHz)
	-40MHz	dB	40.40	40.74	41.34							Limit \geq 40dB (18MHz)
	+40MHz	dB	40.01	40.82	41.69							Limit \geq 40dB (18MHz)

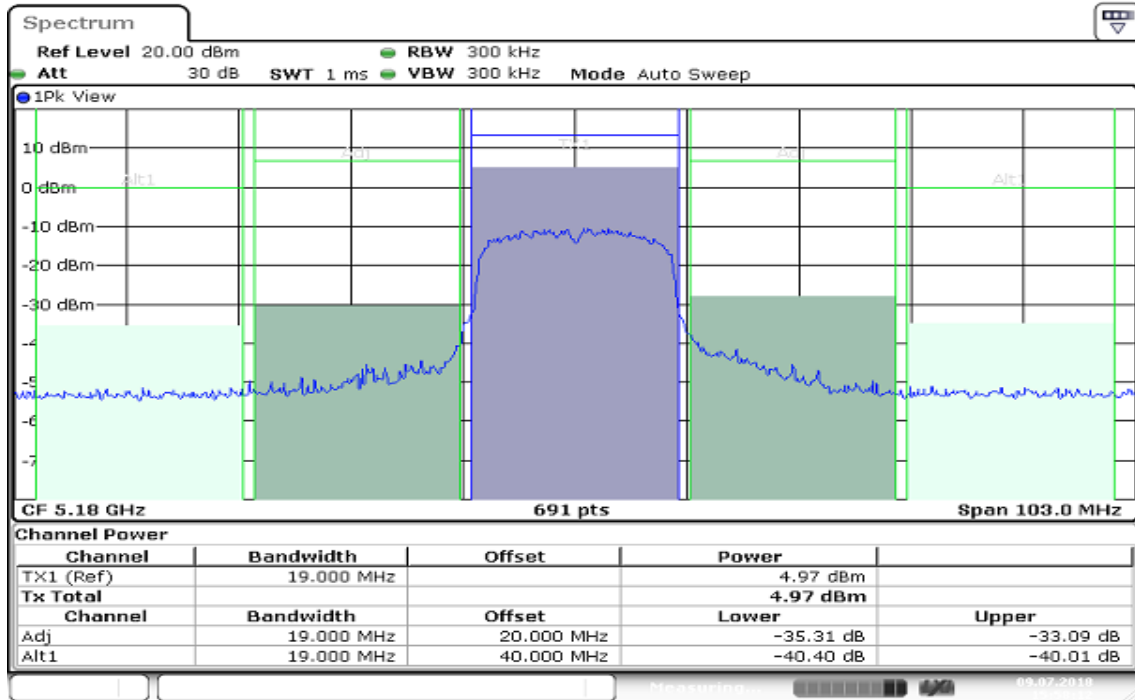
(W56)

Test Frequency	MHz	5500	5600	5700	5500	5600	5700	5500	5600	5700		
Adjacent Channel Leakage Power	-20MHz	dB	34.04	32.64	34.14							Limit \geq 25dB (18MHz)
	+20MHz	dB	31.97	33.41	34.15							Limit \geq 25dB (18MHz)
	-40MHz	dB	42.16	41.77	40.57							Limit \geq 40dB (18MHz)
	+40MHz	dB	42.18	41.91	40.73							Limit \geq 40dB (18MHz)

Report No.: T180627D12-RJ3

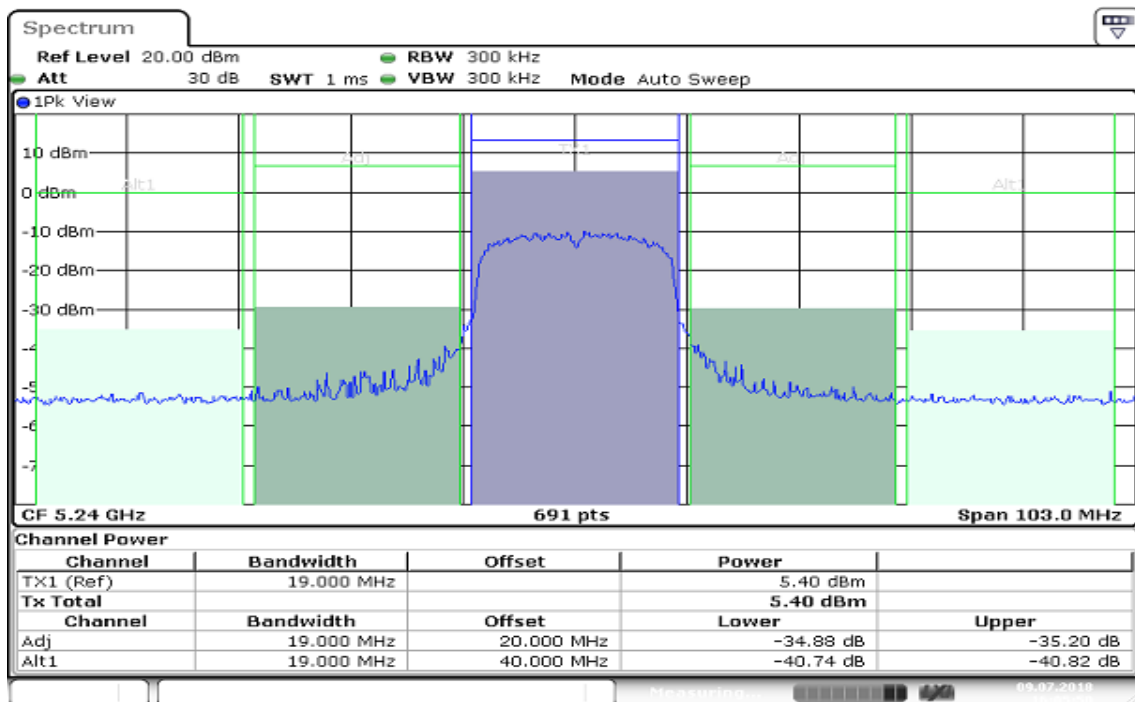
TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 15:58:12

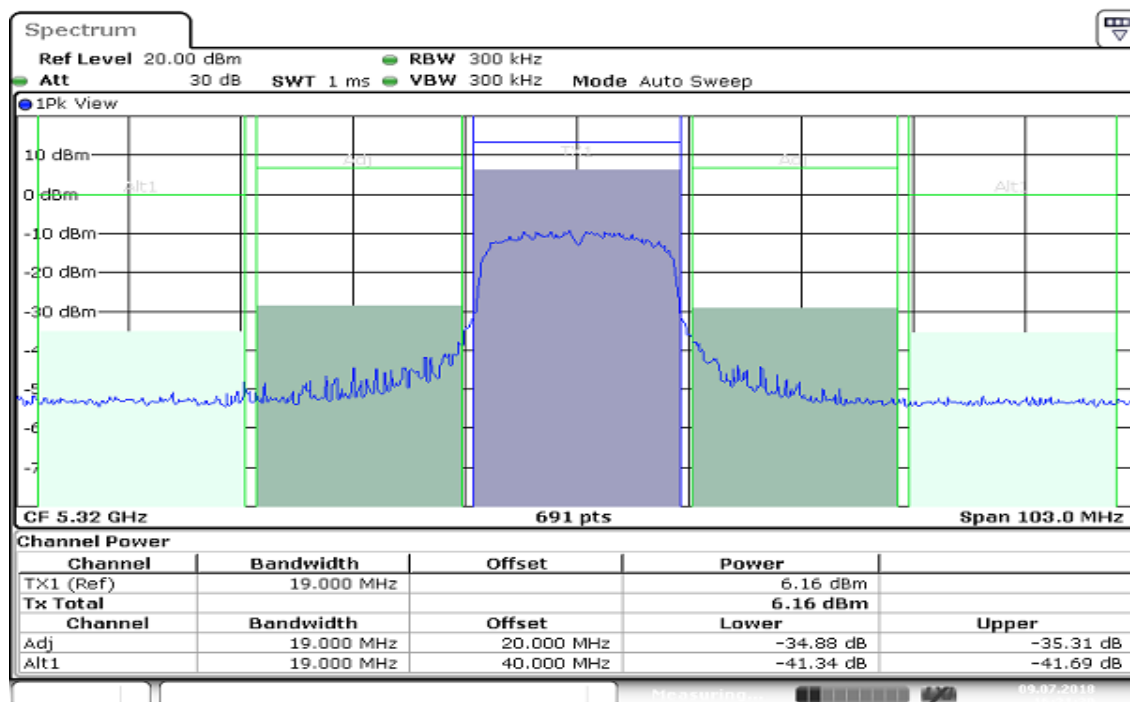
Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 16:05:51

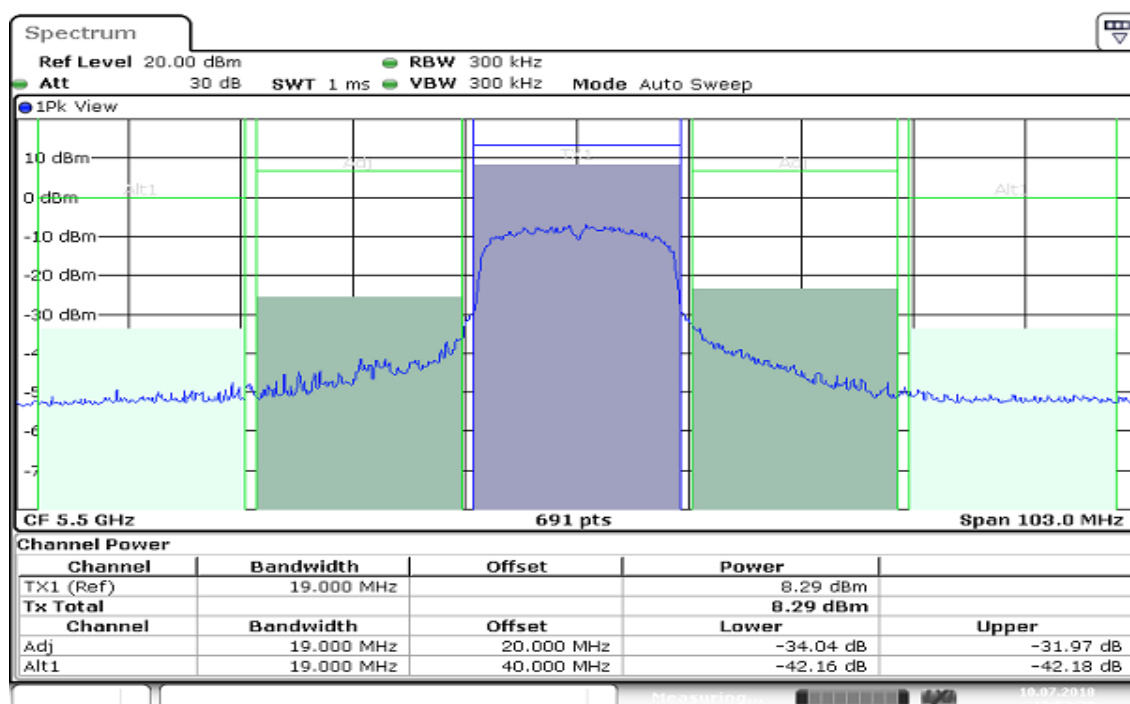
Report No.: T180627D12-RJ3

Ant 1 / CH High(W52 & W53)



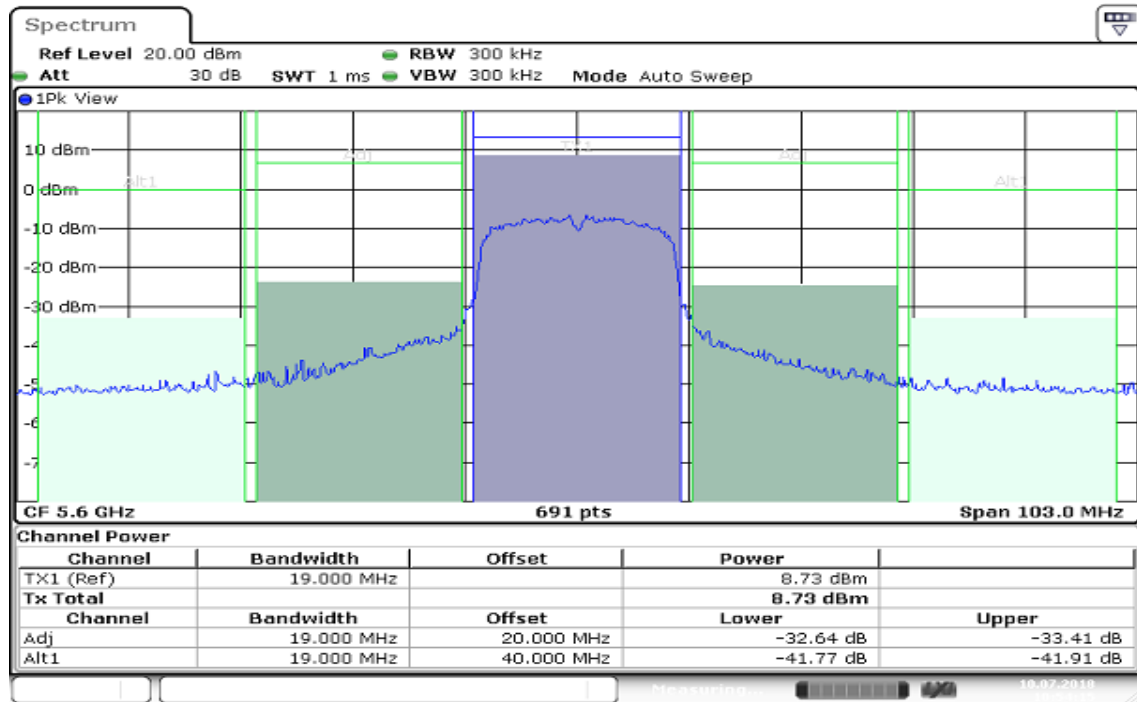
Date: 9 JUL 2018 16:21:40

Ant 1 / CH Low(W56)



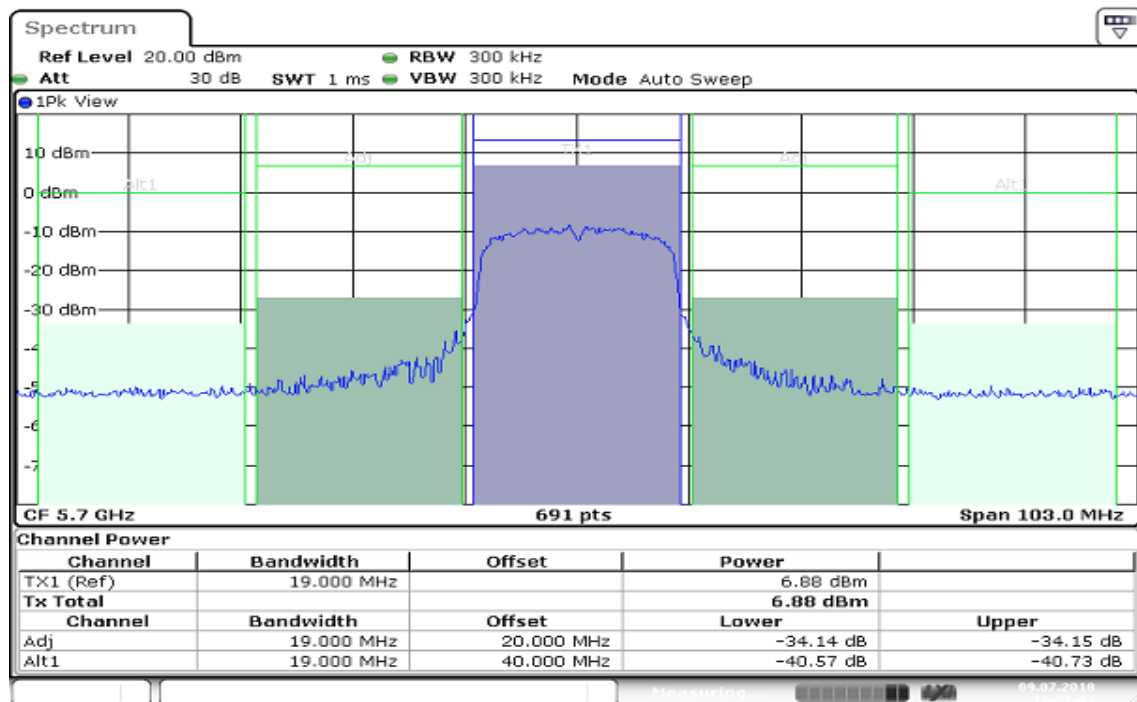
Date: 10 JUL 2018 10:53:28

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 10:54:15

Ant 1 / CH High(W56)



Date: 9 JUL 2018 16:27:05



Report No.: T180627D12-RJ3

8. TEST RESULT FOR IEEE 802.11n HT 40 (W52 & W53 & W56)

8.1 FREQUENCY ERROR

TEST RESULT

(W52 & W53)

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5190.0000	5190.002170	2170	0.4181	Normal Voltage
5230.0000	5230.002170	2170	0.4149	
5310.0000	5310.001450	1450	0.2731	

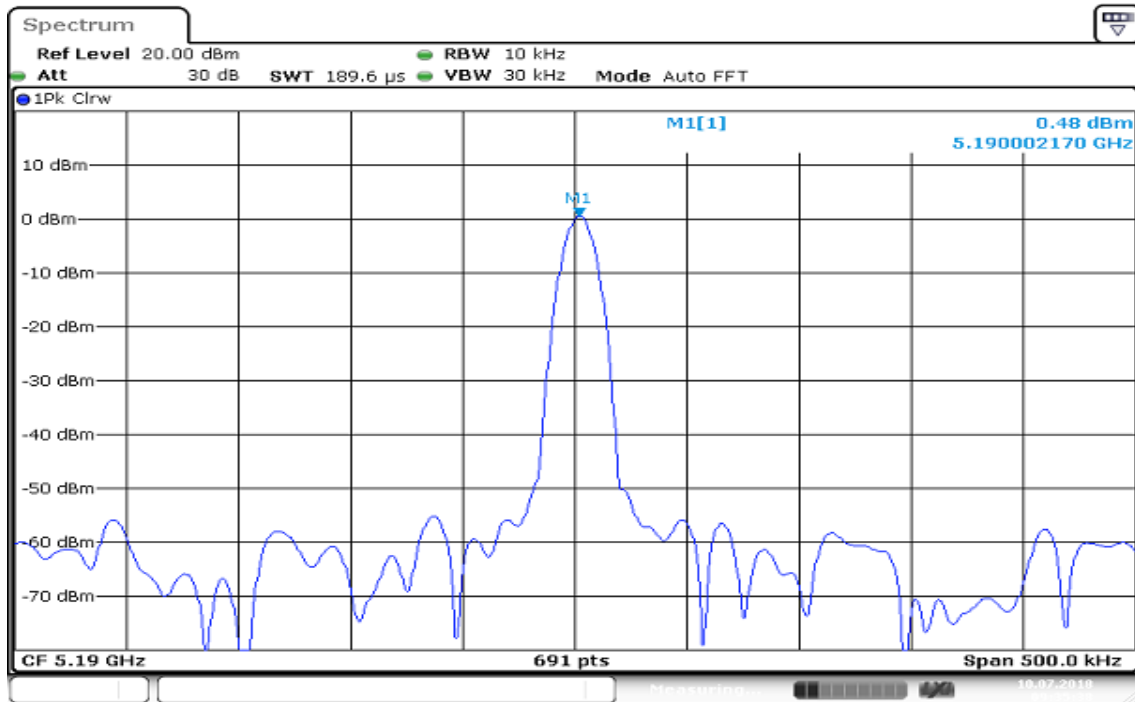
(W56)

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5510.0000	5510.002170	2170	0.3938	Normal Voltage
5590.0000	5590.003620	3620	0.6476	
5670.0000	5670.004340	4340	0.7654	

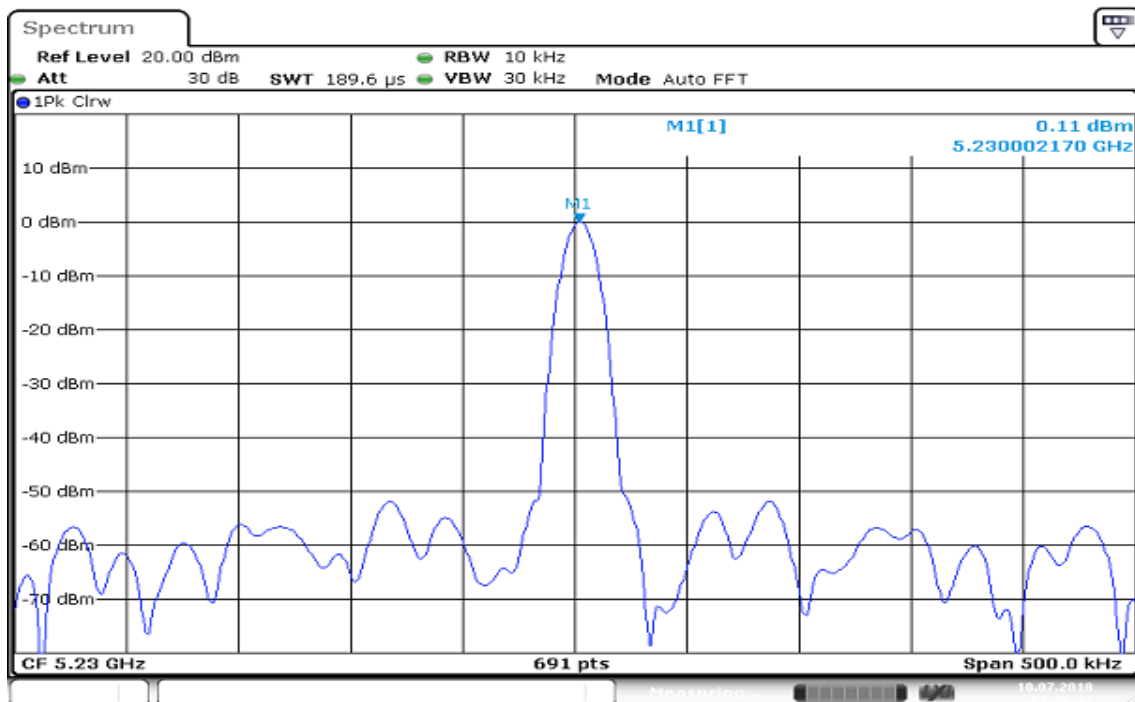
Report No.: T180627D12-RJ3

TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Ant 1 / CH Mid(W52 & W53)



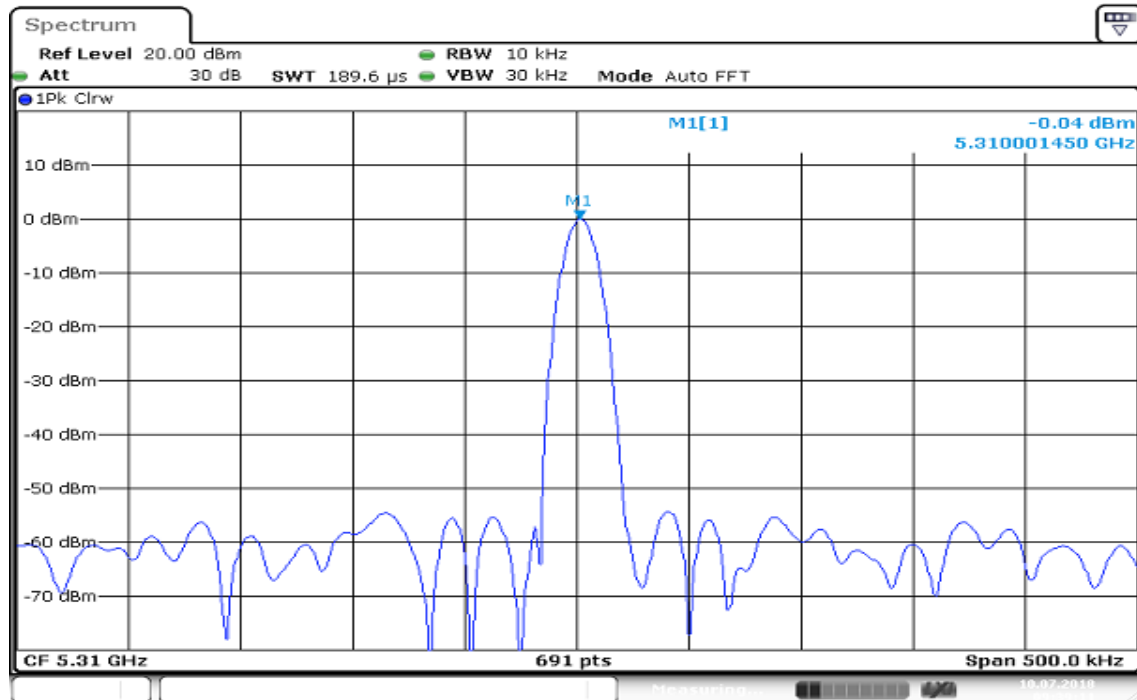


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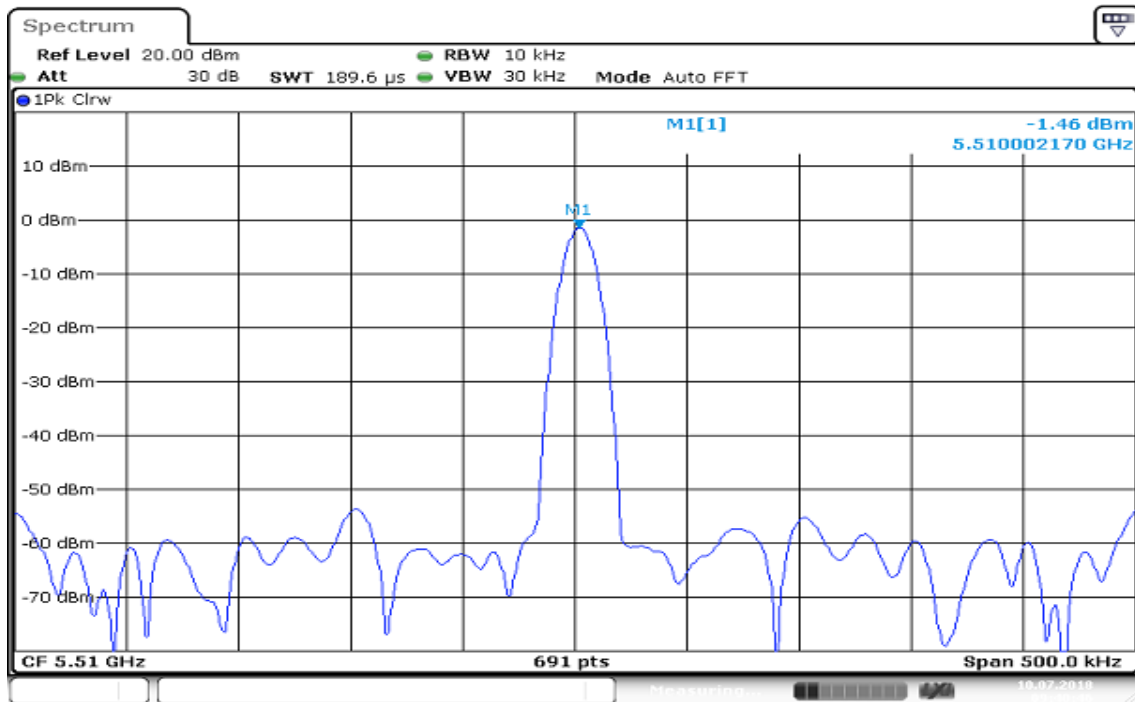
Ant 1 / CH High(W52 & W53)



Date: 10 JUL 2018 09:39:12

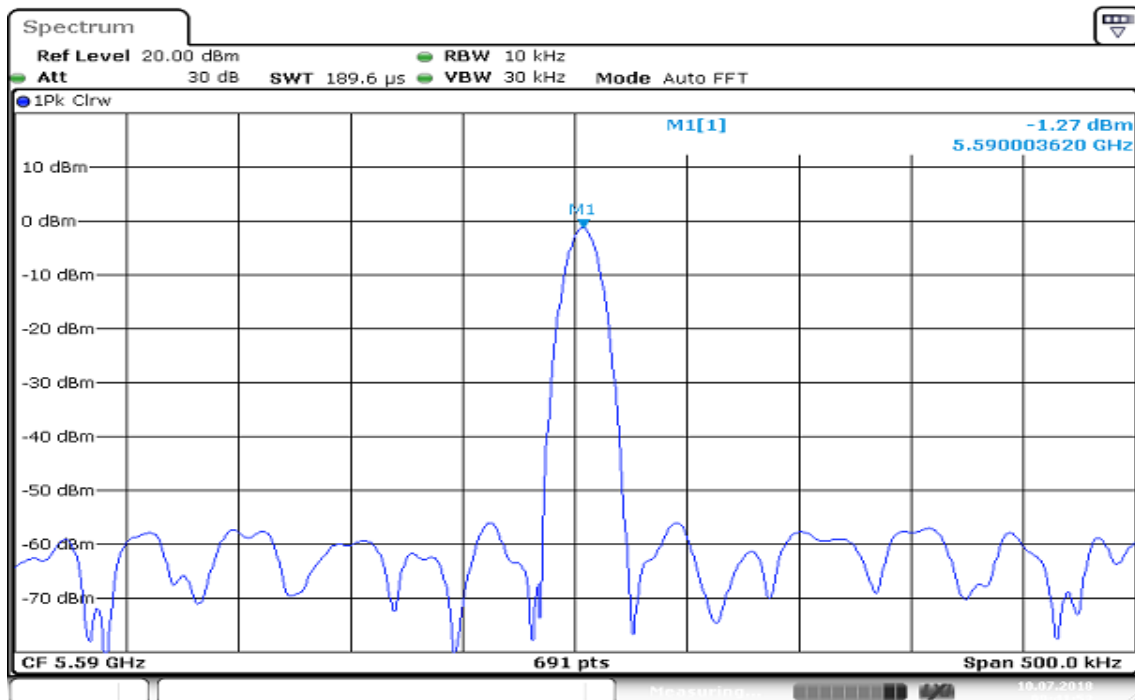
Report No.: T180627D12-RJ3

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 09:40:47

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 09:41:54

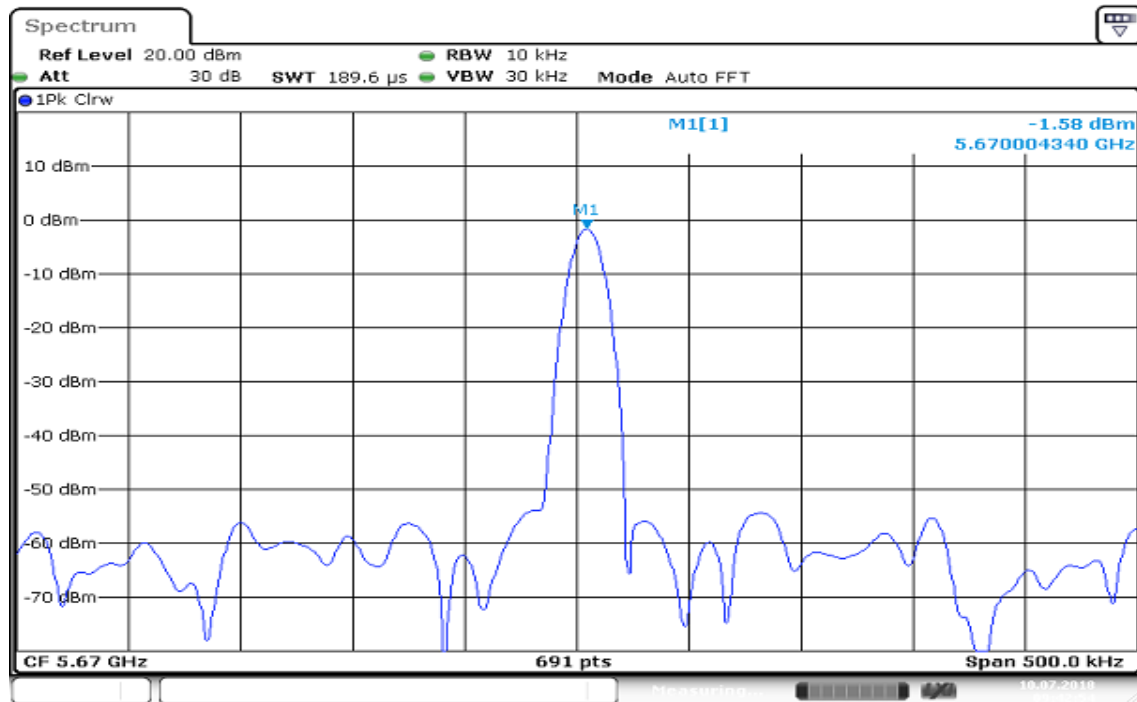


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Ant 1 / CH High(W56)



Date: 10 JUL 2018 09:42:54



Report No.: T180627D12-RJ3

8.2 ANTENNA POWER

TEST RESULT

(W52 & W53)

Antenna 1  6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5190.0000	-13.66	10.92	-2.74	0.53211	3.26	2.11836	Normal Voltage
5230.0000	-13.60	10.92	-2.68	0.53951	3.32	2.14783	
5310.0000	-11.63	10.92	-0.71	0.84918	5.29	3.38065	

(W56)

Antenna 1  6.42 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5510.0000	-13.69	10.92	-2.77	0.52845	3.65	2.31739	Normal Voltage
5590.0000	-13.00	10.92	-2.08	0.61944	4.34	2.71644	
5670.0000	-11.00	10.92	-0.08	0.98175	6.34	4.30527	

Report No.: T180627D12-RJ3

8.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz ~ 1GHz

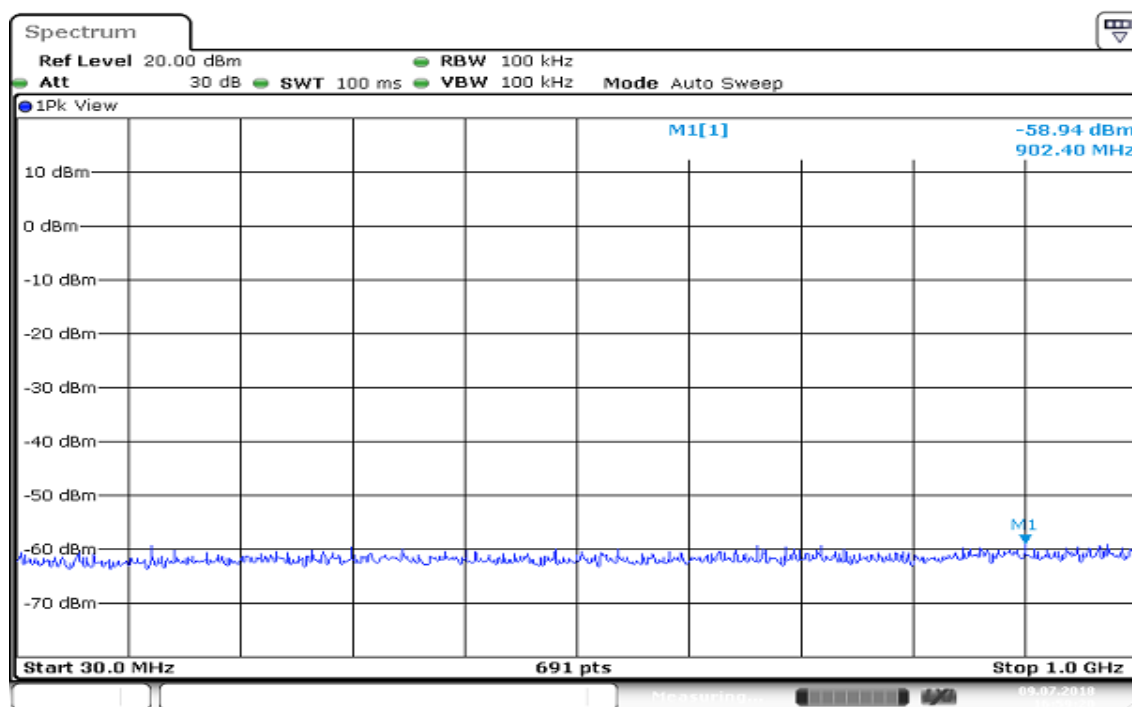
(W52 & W53)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5190.0000	902.4000	-58.94	10.37	0.01390	Normal Voltage
5230.0000	717.1000	-58.88	10.37	0.01409	
5310.0000	725.6000	-58.43	10.37	0.01563	

TEST PLOTS

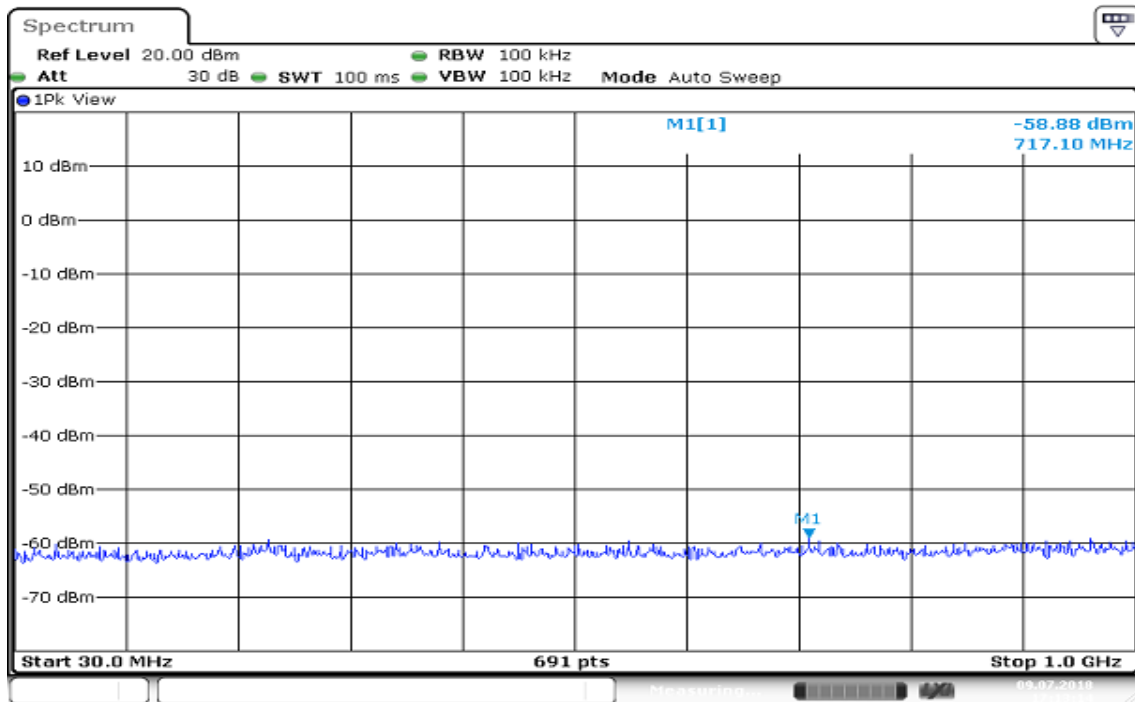
Ant 1 / CH Low(W52 & W53)



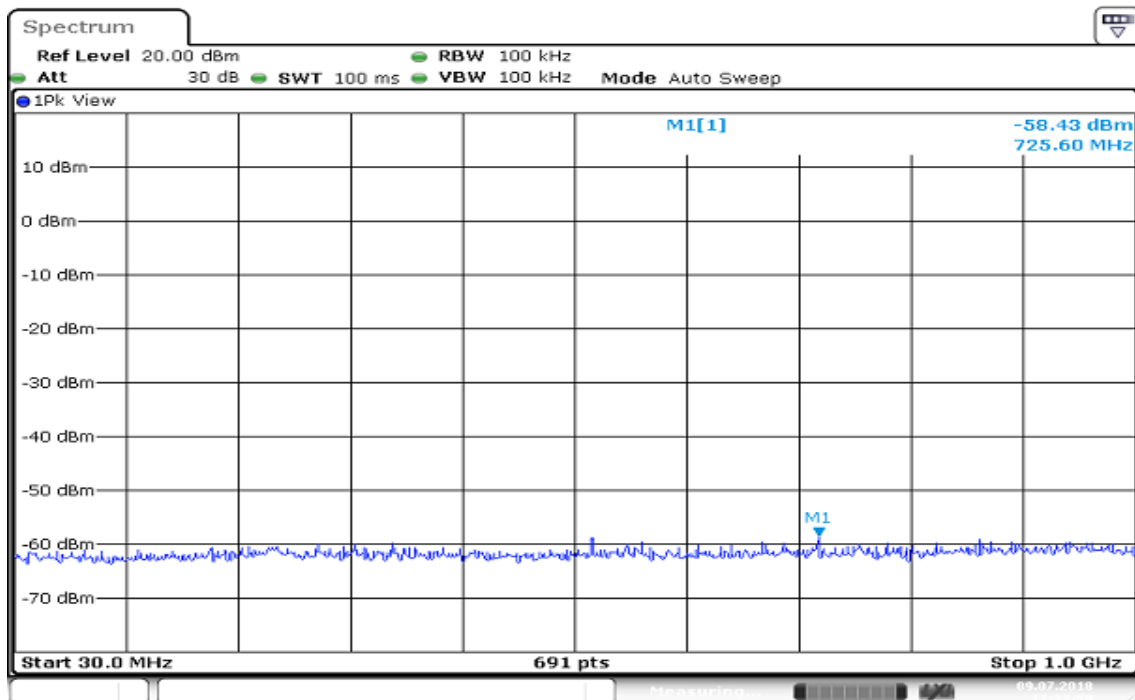
Date: 9.JUL.2018 16:59:21



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)

Date: 9 JUL 2018 17:13:15

Ant 1 / CH High(W52 & W53)

Date: 9 JUL 2018 17:23:50

Report No.: T180627D12-RJ3

TEST RESULT

1GHz ~ 5.1GHz

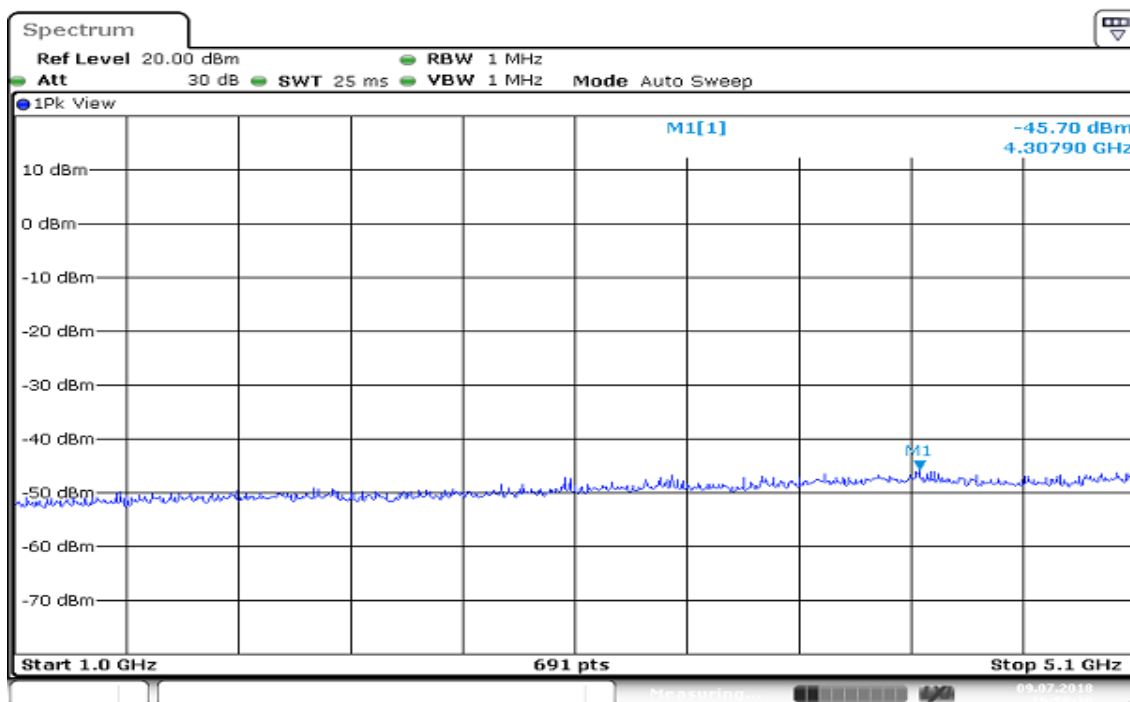
(W52 & W53)

(2) 1000MHz~less than 5100MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	4307.9000	-45.70	10.92	0.33266	Normal Voltage
5230.0000	4313.8000	-45.89	10.92	0.31842	
5310.0000	4141.8000	-47.86	10.92	0.20230	

TEST PLOTS

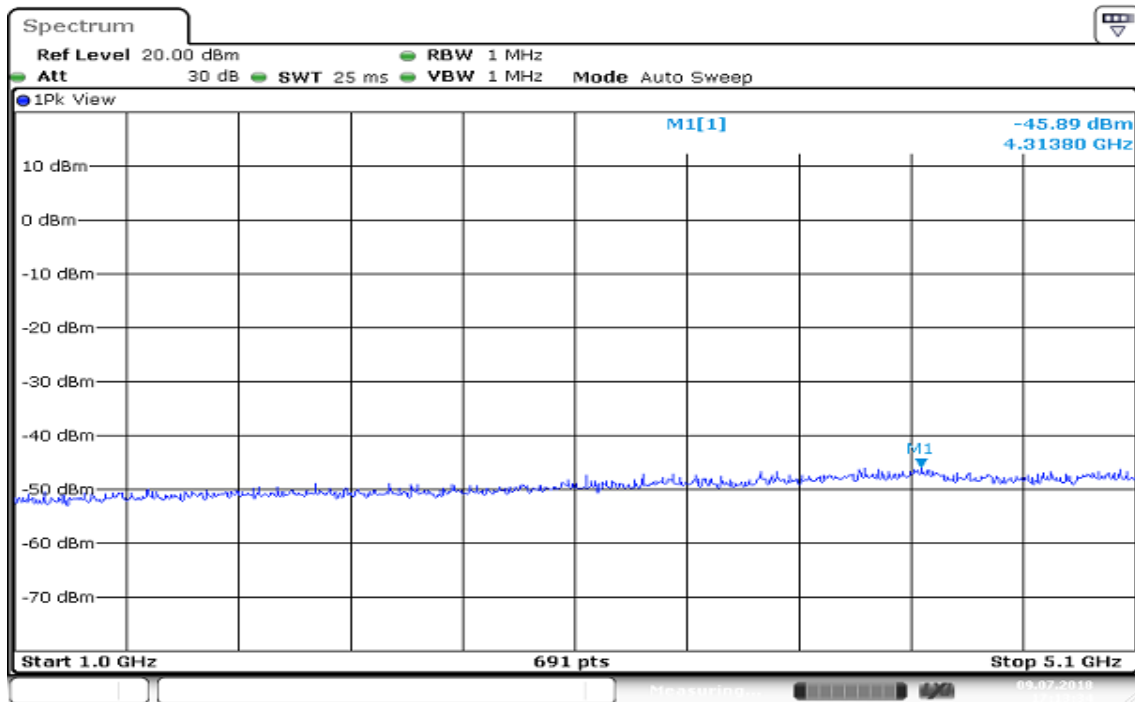
Ant 1 / CH Low(W52 & W53)



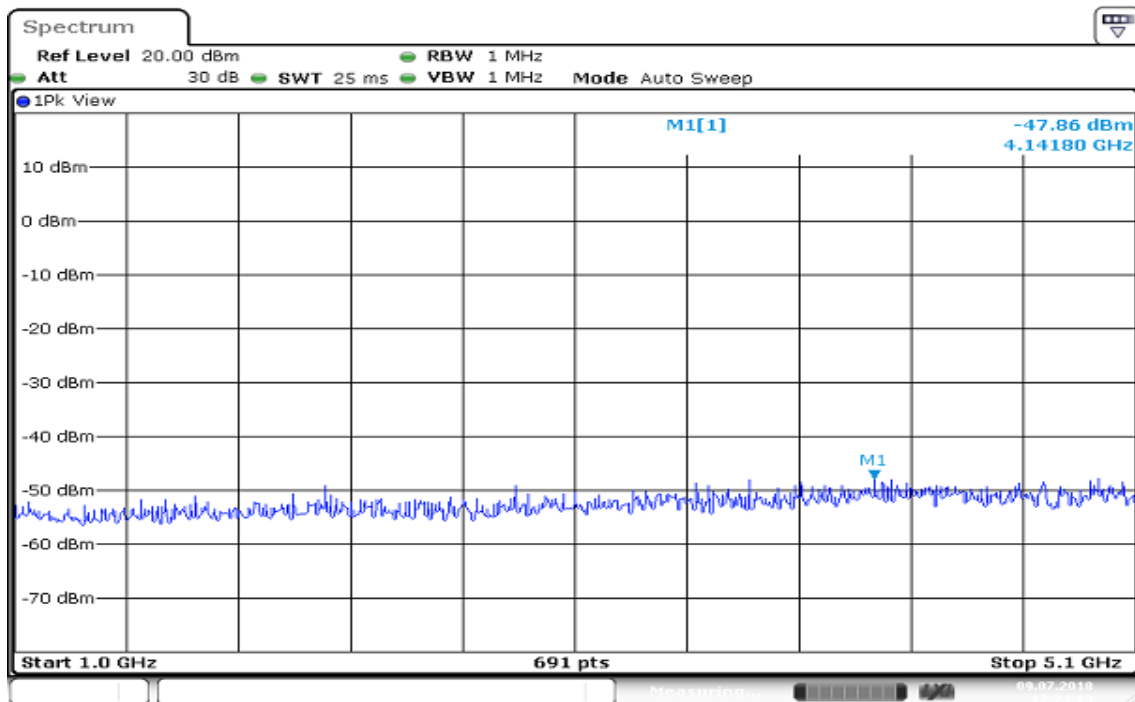
Date: 9 JUL 2018 16:59:40



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)

Date: 9 JUL 2018 17:13:35

Ant 1 / CH High(W52 & W53)

Date: 9 JUL 2018 17:24:10



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TEST RESULT

5.4GHz ~ 26GHz

(W52 & W53)

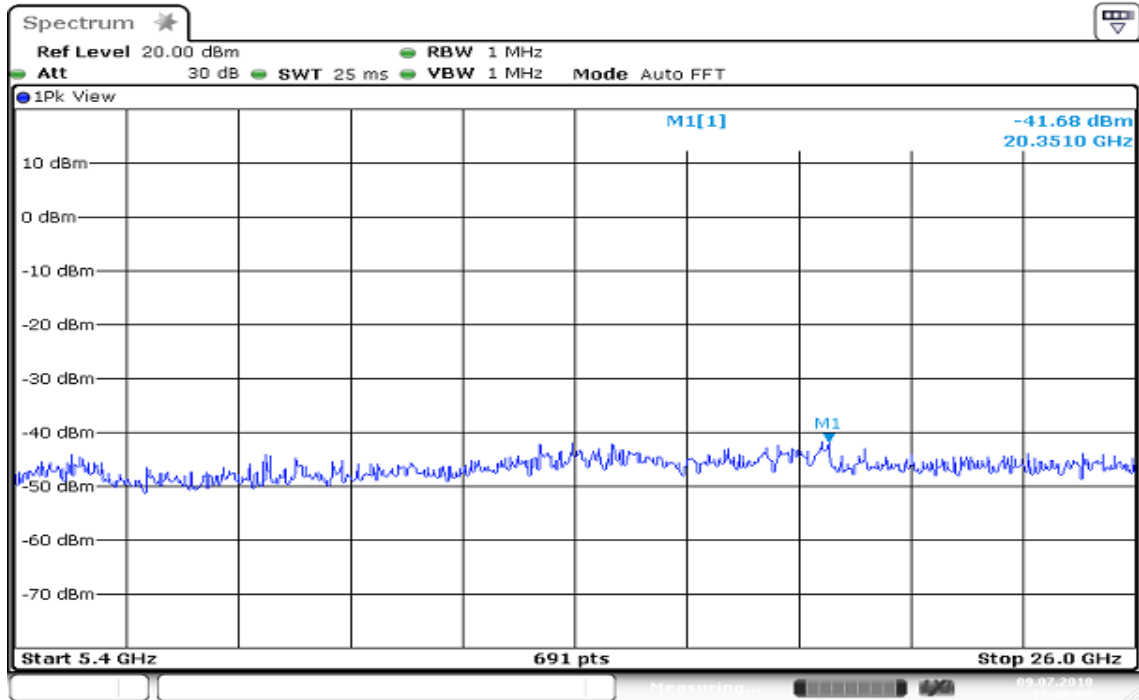
(3) 5400MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	20351.0000	-41.68	10.92	0.83946	Normal Voltage
5230.0000	20112.0000	-42.36	10.92	0.71779	
5310.0000	19725.0000	-41.68	10.92	0.83946	

Report No.: T180627D12-RJ3

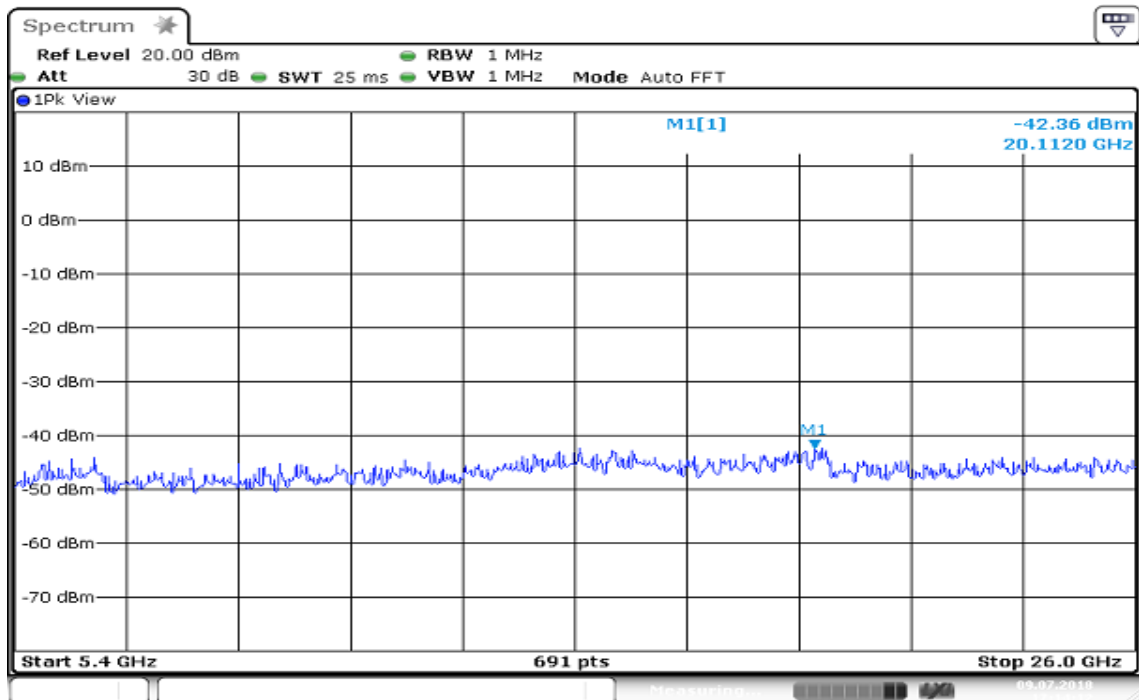
TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 17:00:01

Ant 1 / CH Mid(W52 & W53)



Date: 9 JUL 2018 17:14:12

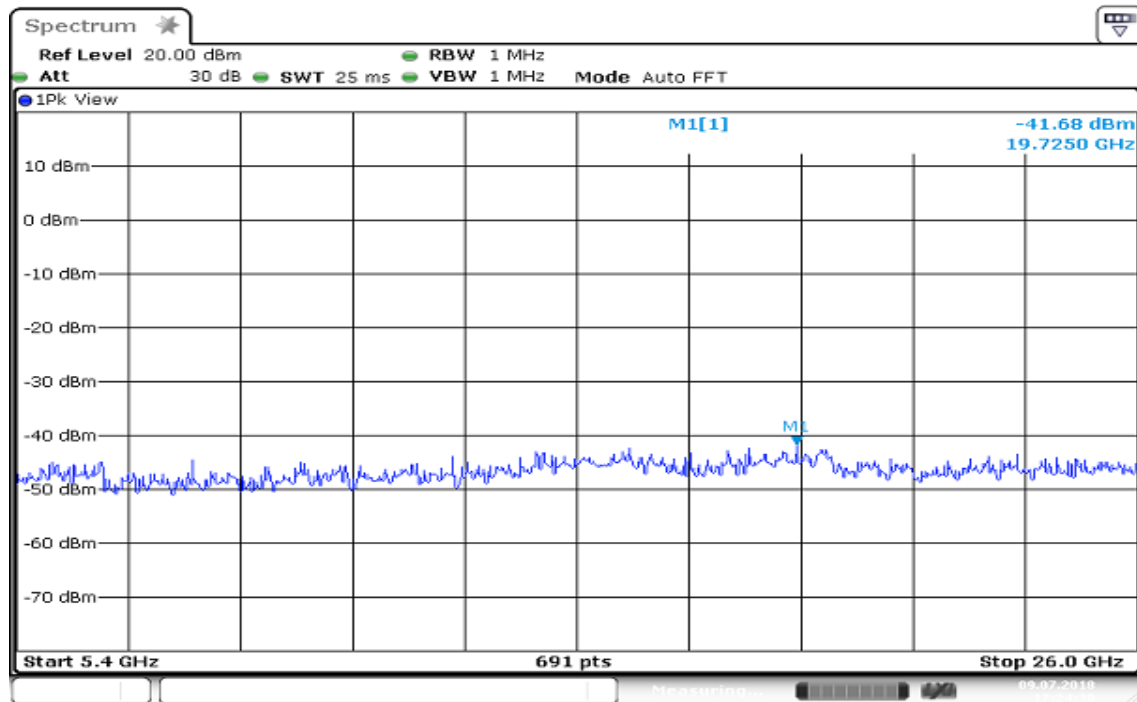


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Ant 1 / CH High(W52 & W53)



Date: 9 JUL 2018 17:24:30

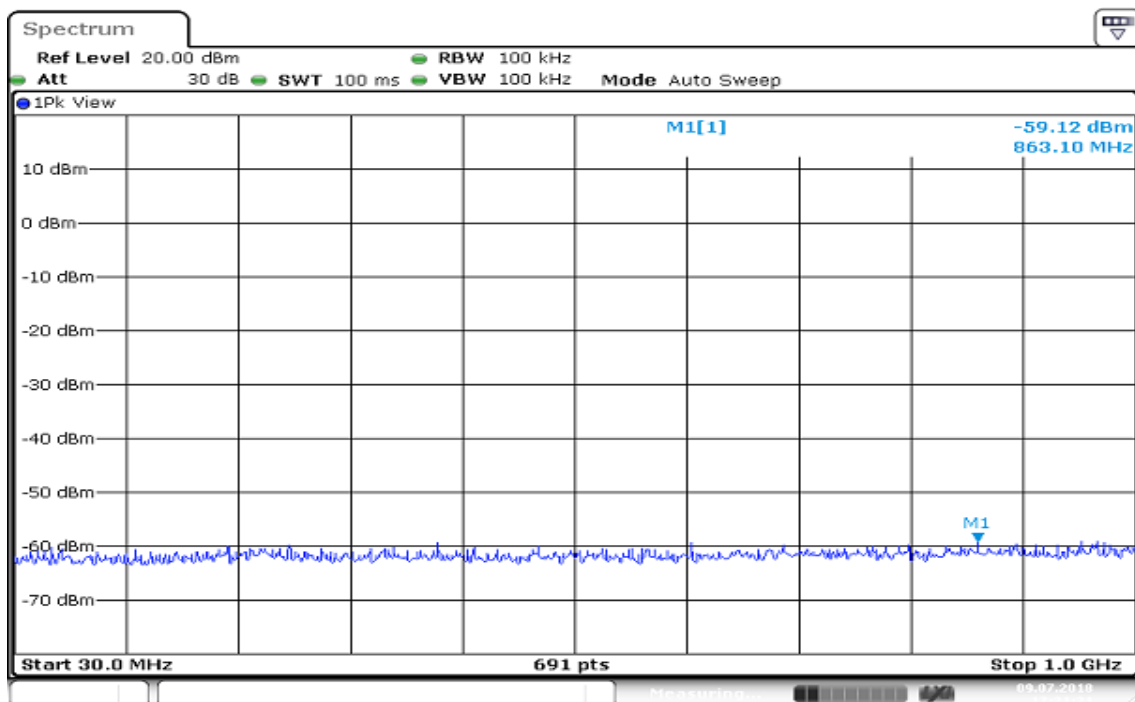


Report No.: T180627D12-RJ3

TEST RESULT**30MHz ~ 1GHz****(W56)**

(1) 30MHz~less than 1,000MHz

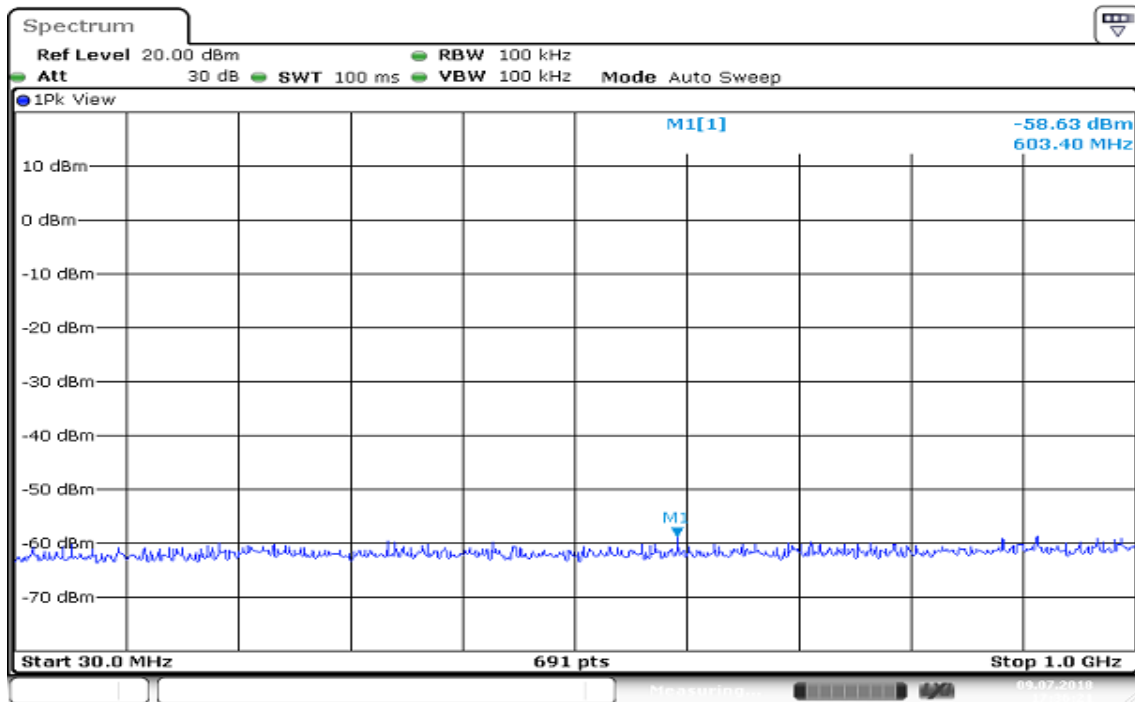
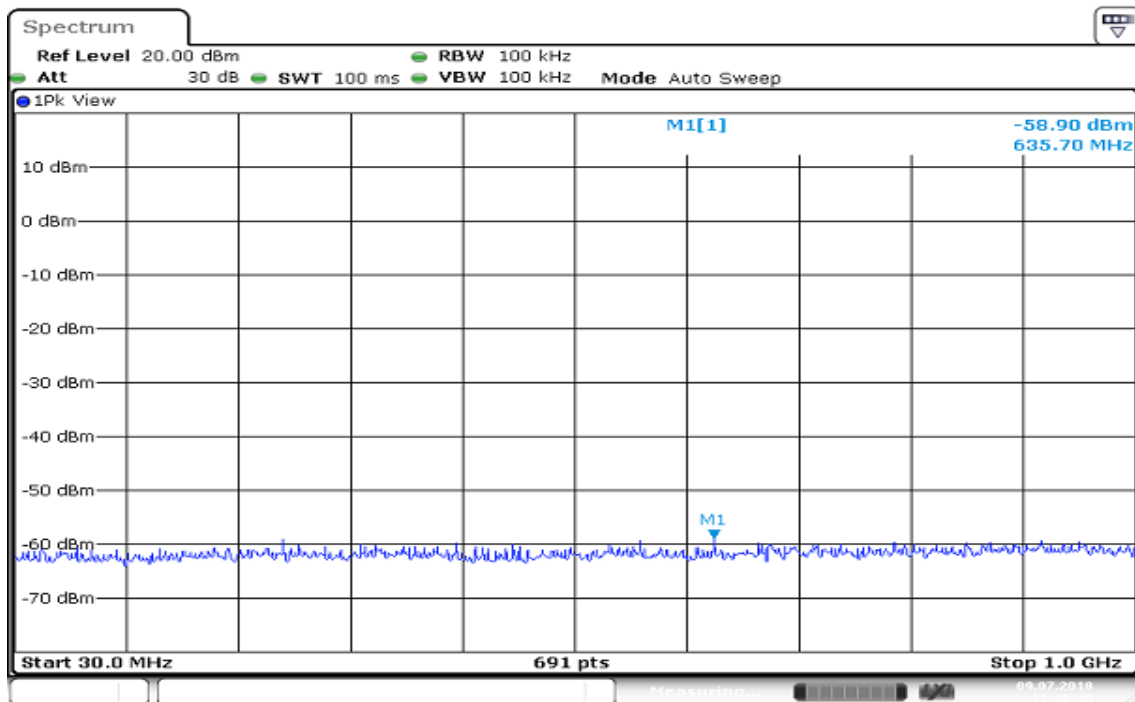
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5510.0000	863.1000	-59.12	10.37	0.01334	Normal Voltage
5590.0000	603.4000	-58.63	10.37	0.01493	
5670.0000	635.7000	-58.90	10.37	0.01403	

Ant 1 / CH Low(W56)

Date: 9 JUL 2018 17:21:22



Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)**Ant 1 / CH High(W56)**



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TEST RESULT

1GHz ~ 5.1GHz

(W56)

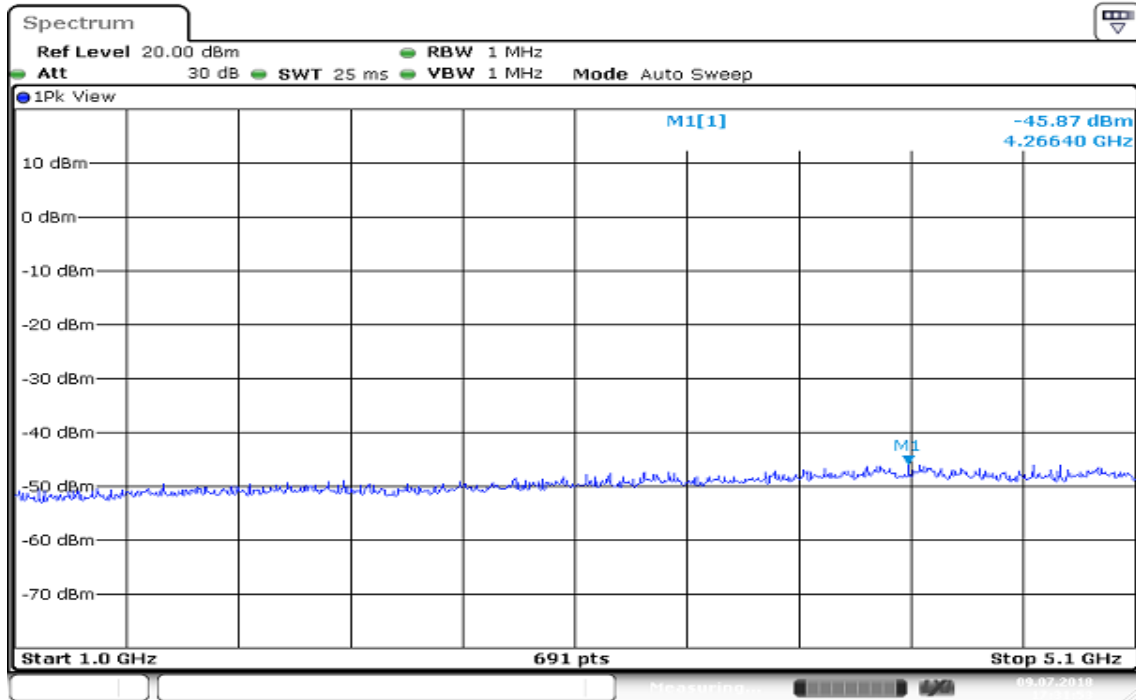
(2) 1000MHz~less than 5420MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5510.0000	4266.4000	-45.87	10.92	0.31989	Normal Voltage
5590.0000	4189.2000	-45.57	10.92	0.34277	
5670.0000	4319.8000	-45.99	10.92	0.31117	

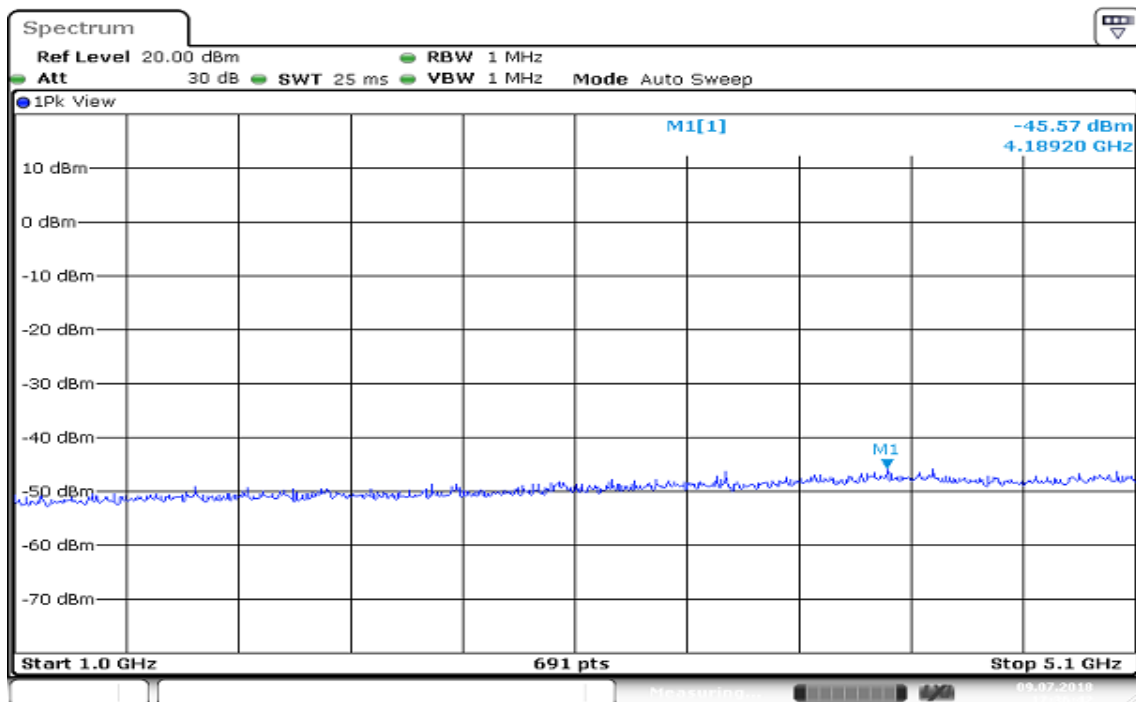
Report No.: T180627D12-RJ3

TEST PLOTS

Ant 1 / CH Low(W56)



Ant 1 / CH Mid(W56)



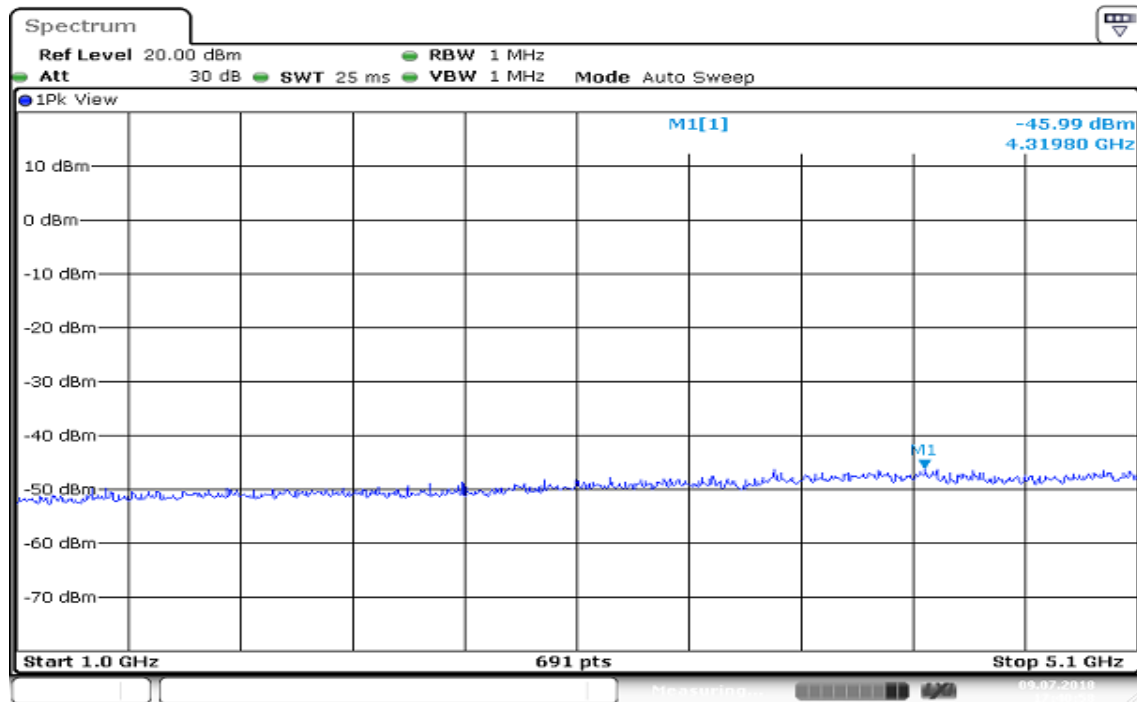


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Ant 1 / CH High(W56)



Date: 9 JUL 2018 17:40:59

Report No.: T180627D12-RJ3

TEST RESULT

5.76GHz ~ 26GHz

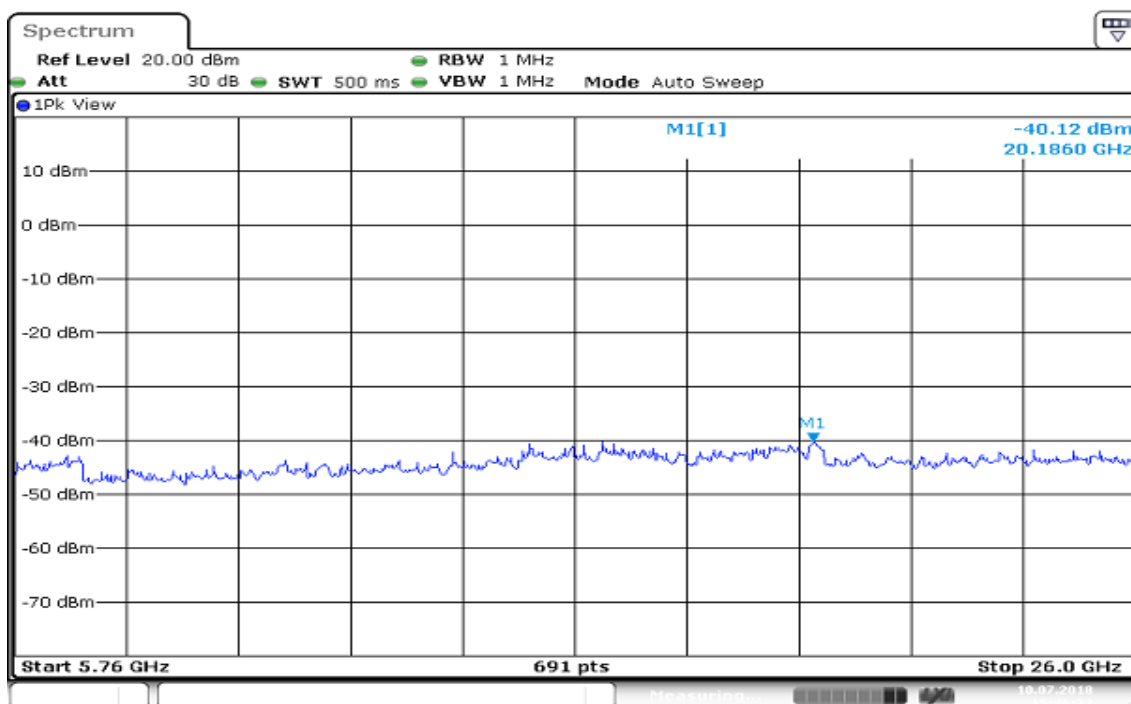
(W56)

(3) 5760MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5510.0000	5504.0000	-40.12	10.92	1.20226	Normal Voltage
5590.0000	5564.0000	-40.10	10.92	1.20781	
5670.0000	5653.0000	-39.95	10.92	1.25026	

TEST PLOTS

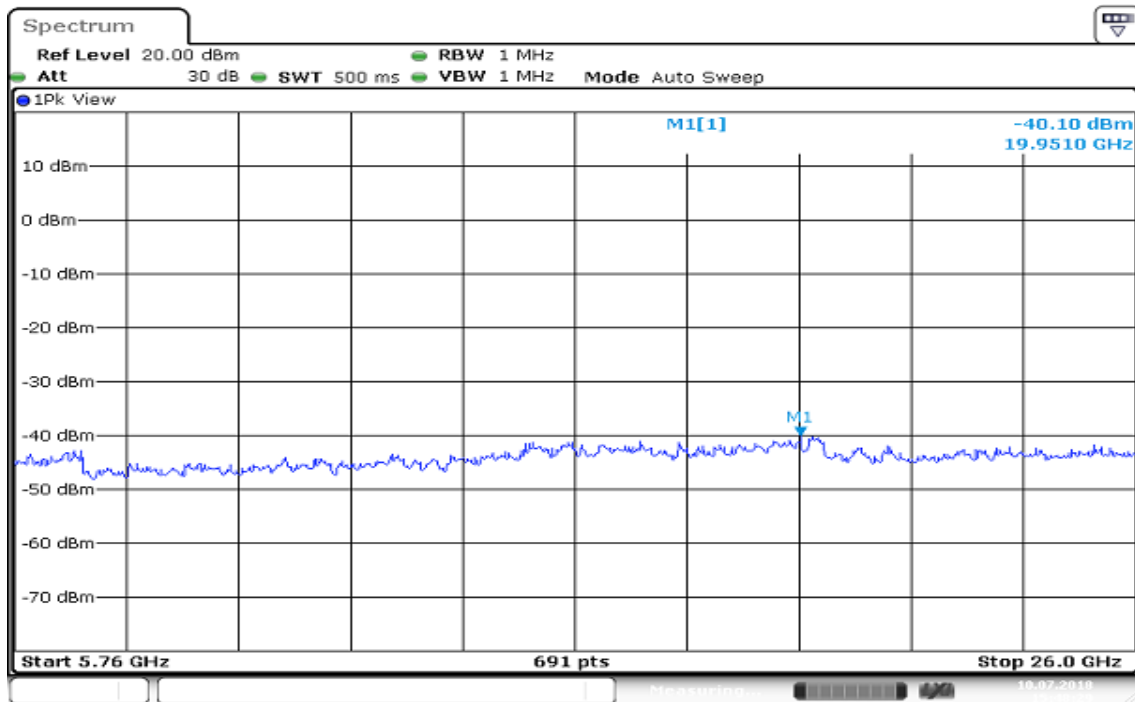
Ant 1 / CH Low(W56)



Date: 10 JUL 2018 15:46:33

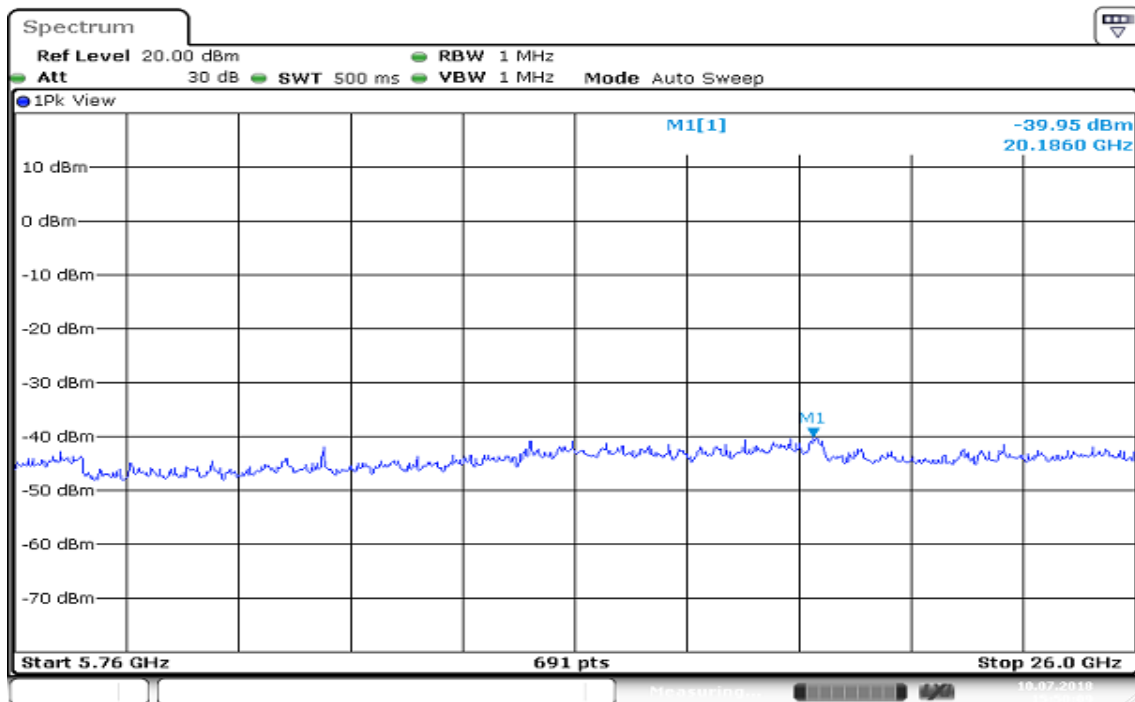
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 15:48:29

Ant 1 / CH High(W56)



Date: 10 JUL 2018 15:50:09



Report No.: T180627D12-RJ3

8.4 OCCUPIED BANDWIDTH (99%)**TEST RESULT****(W52 & W53)**

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5190.0000	5190.00	35.77	Normal Voltage
5230.0000	5230.00	35.77	
5310.0000	5310.00	35.77	

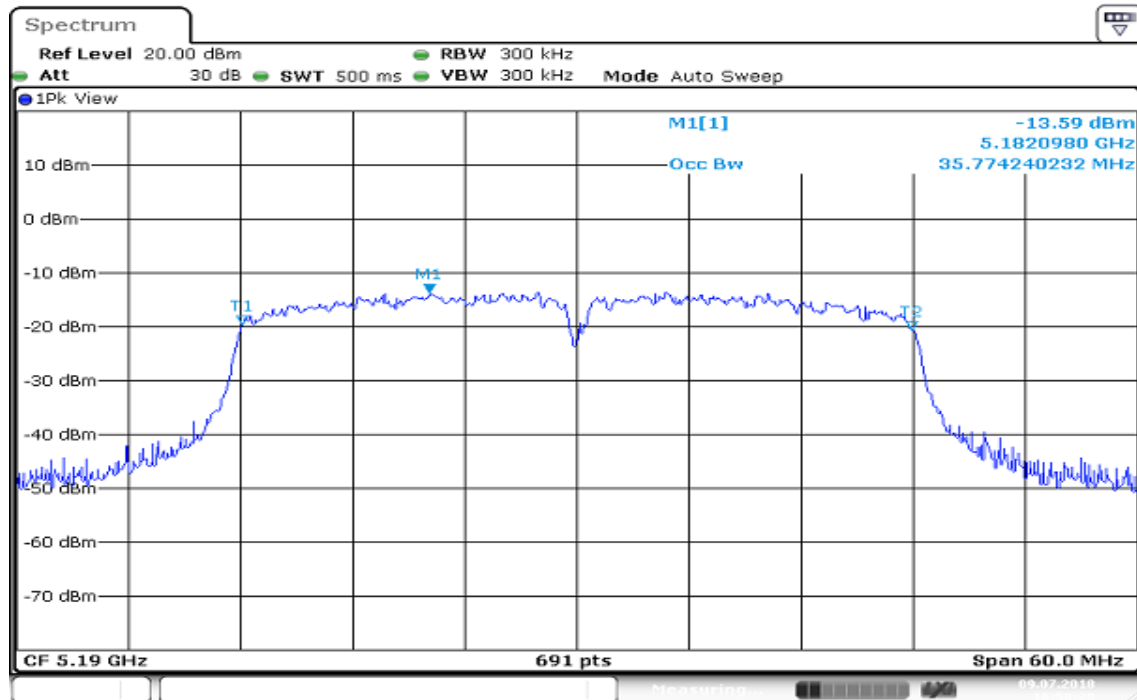
(W56)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5510.0000	5510.00	35.77	Normal Voltage
5590.0000	5590.00	35.77	
5670.0000	5670.00	35.77	

Report No.: T180627D12-RJ3

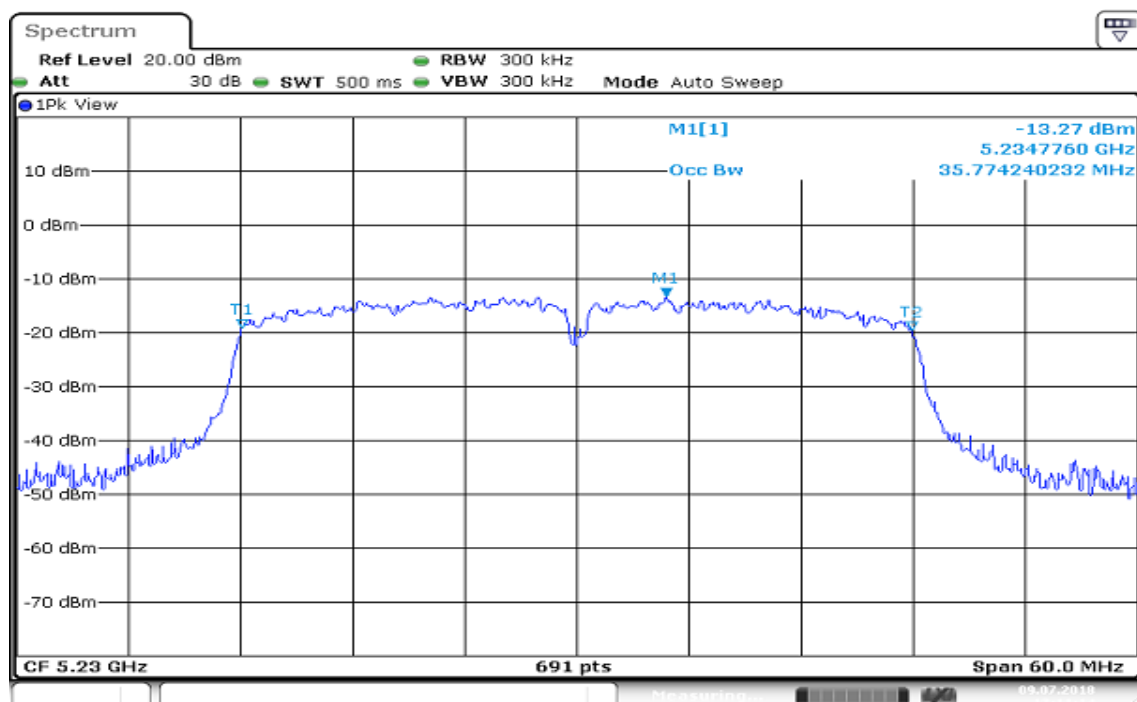
TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Date: 9 JUL 2018 16:58:28

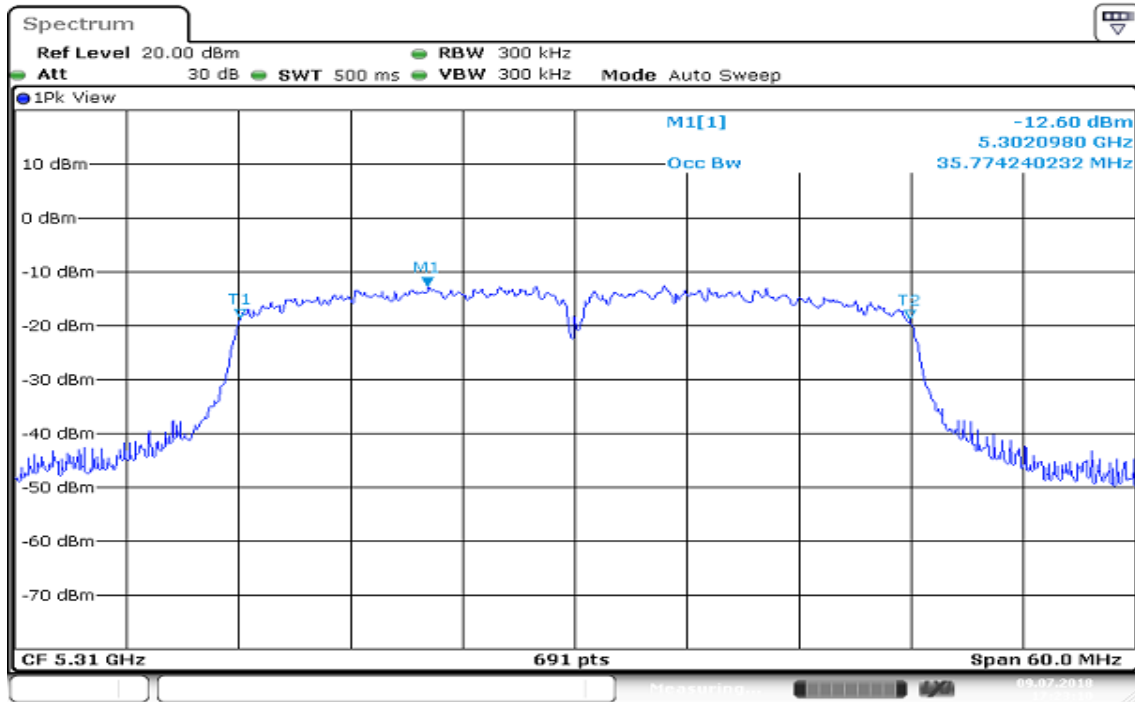
Ant 1 / CH Mid(W52 & W53)



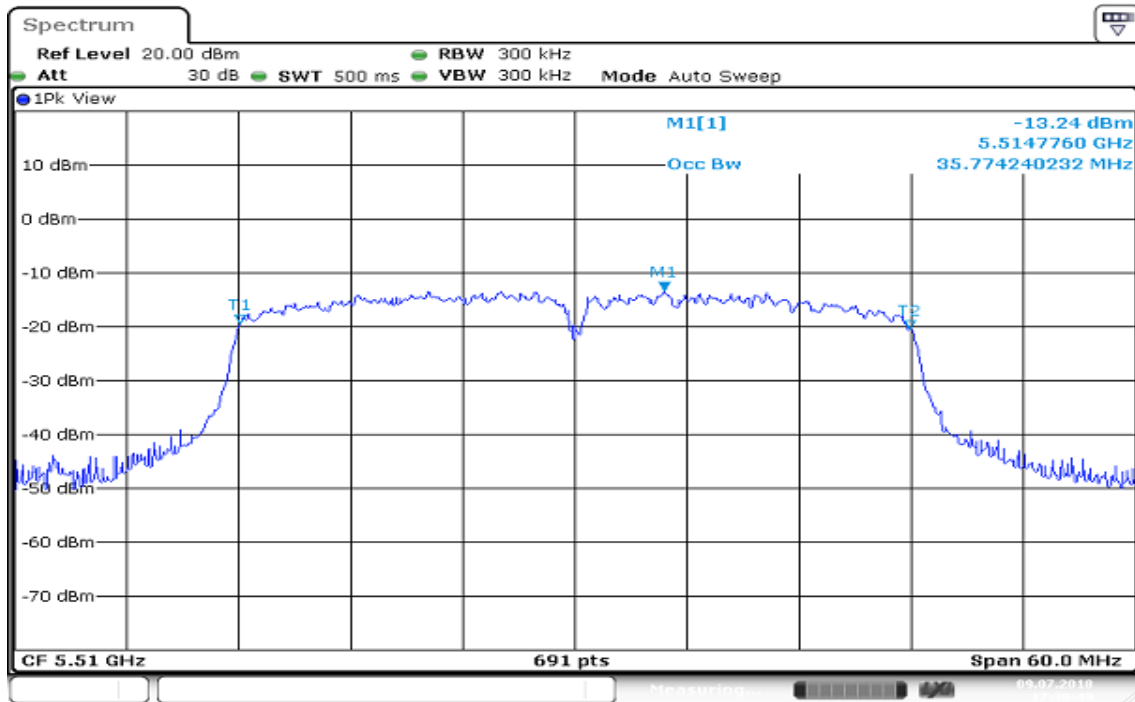
Date: 9 JUL 2018 17:11:14

Report No.: T180627D12-RJ3

Ant 1 / CH High(W52 & W53)

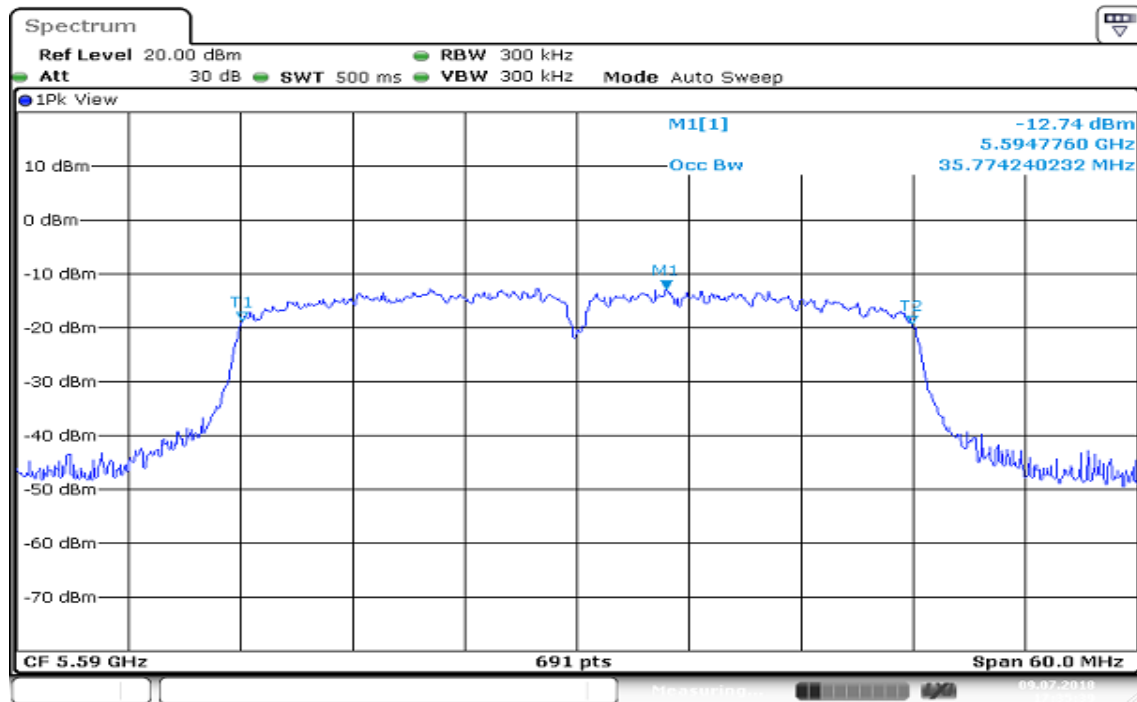


Ant 1 / CH Low(W56)



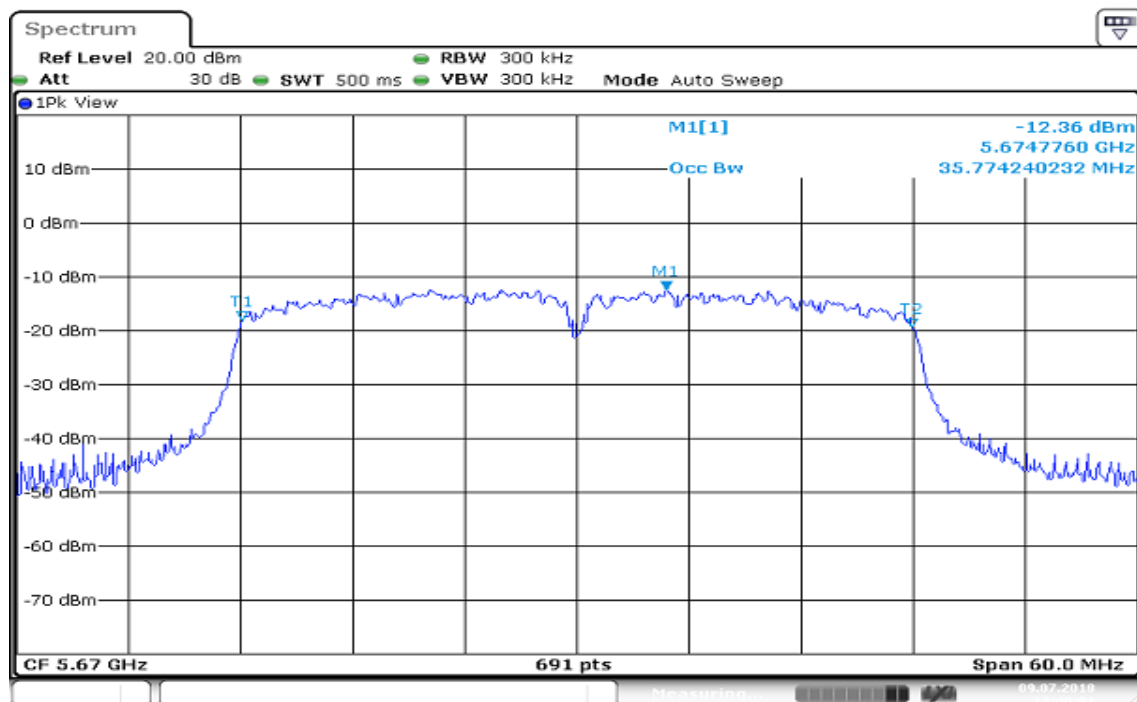
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 9 JUL 2018 17:25:29

Ant 1 / CH High(W56)



Date: 9 JUL 2018 17:40:01

Report No.: T180627D12-RJ3

8.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

30MHz ~ 1GHz

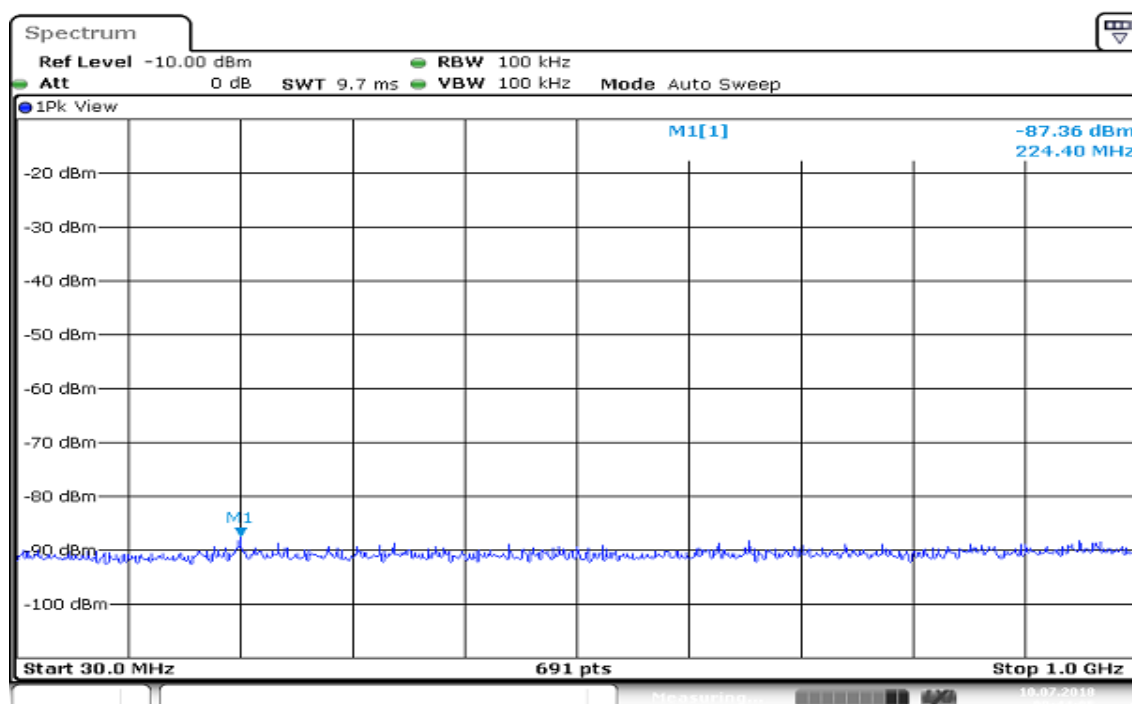
(W52 & W53)

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5190 MHz	224.4000	-87.36	10.37	0.0200	Normal Voltage
5230 MHz	877.2000	-87.95	10.37	0.0175	
5310 MHz	805.6000	-88.19	10.37	0.0165	

TEST PLOTS

Ant 1 / CH Low(W52 & W53)



Date: 10 JUL 2018 09:44:05

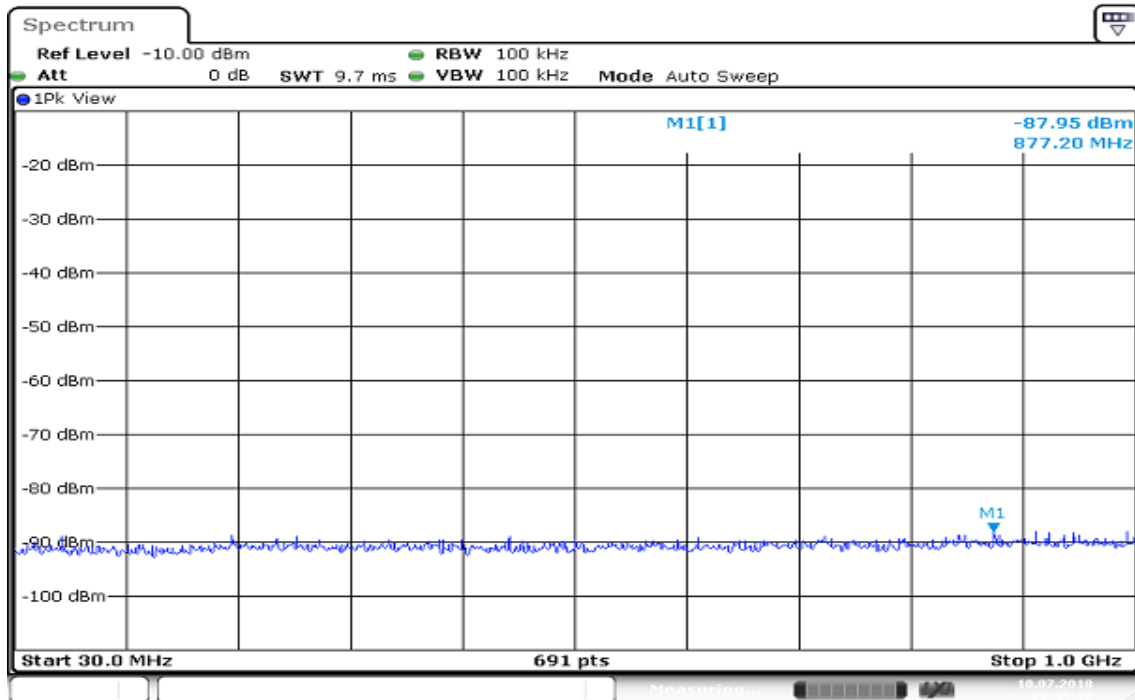


Report No.: T180627D12-RJ3

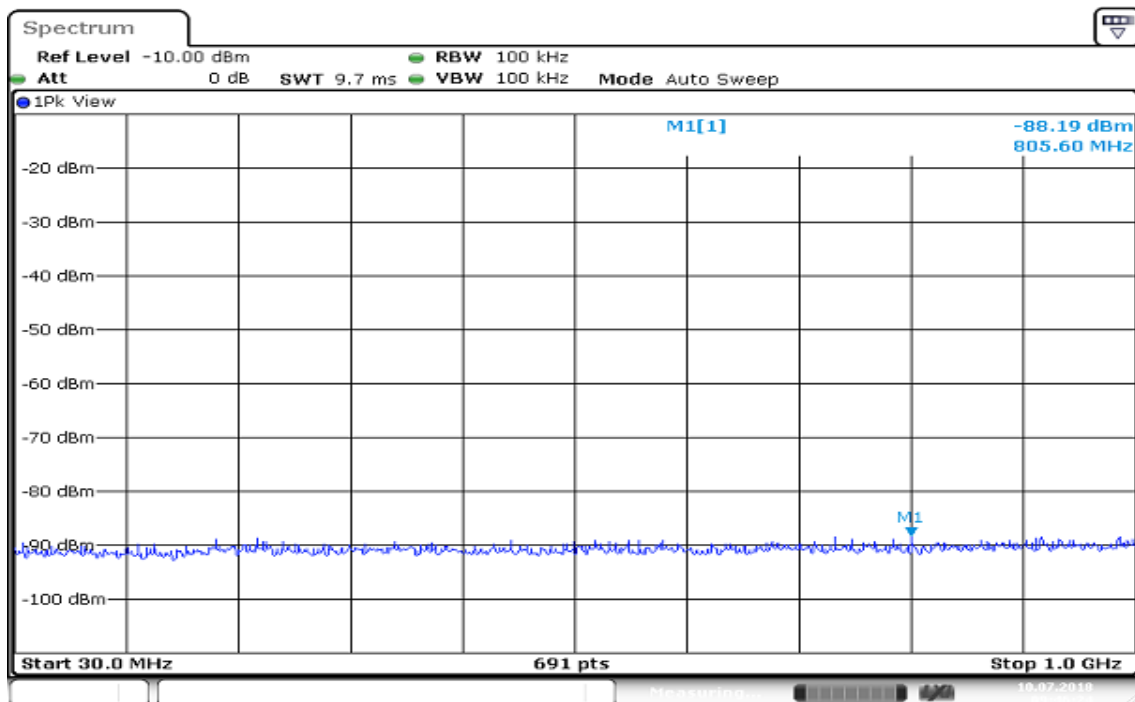
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Ant 1 / CH Mid(W52 & W53)



Ant 1 / CH High(W52 & W53)



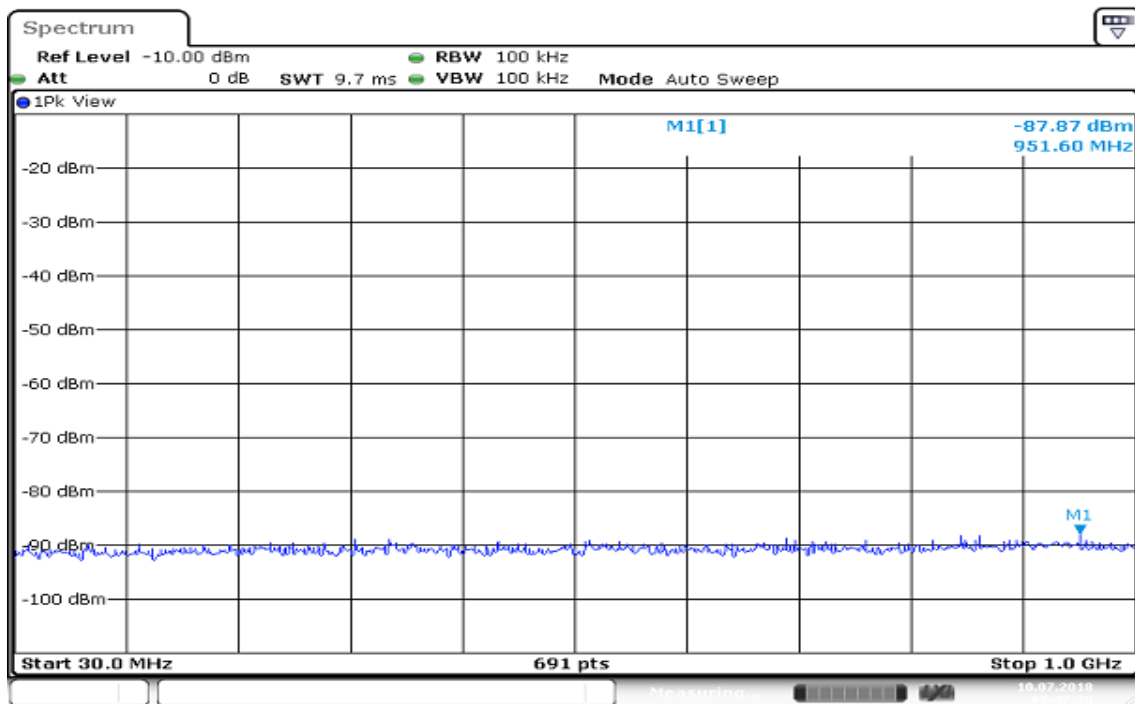


Report No.: T180627D12-RJ3

TEST RESULTS**30MHz ~ 1GHz****(W56)**

Freq: 30MHz~1GHz

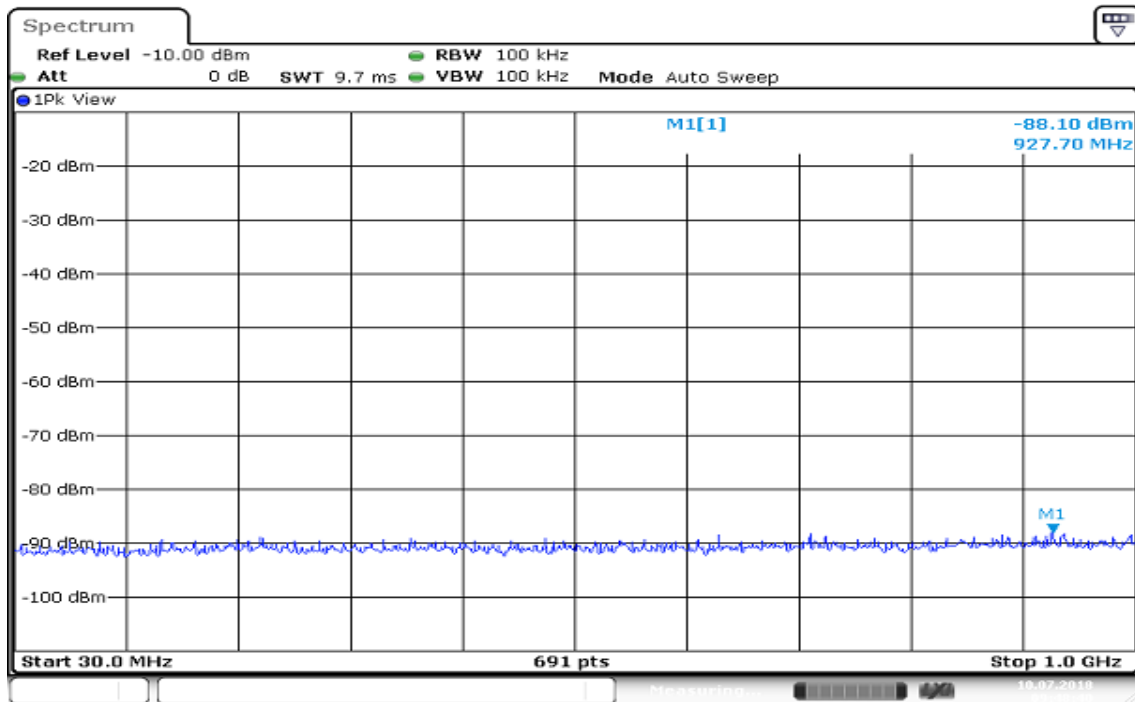
	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5510 MHz	951.6000	-87.87	10.37	0.0178	Normal Voltage
5590 MHz	927.7000	-88.10	10.37	0.0169	
5670 MHz	960.0000	-88.08	10.37	0.0169	

Ant 1 / CH Low(W56)

Date: 10 JUL 2018 09:47:31

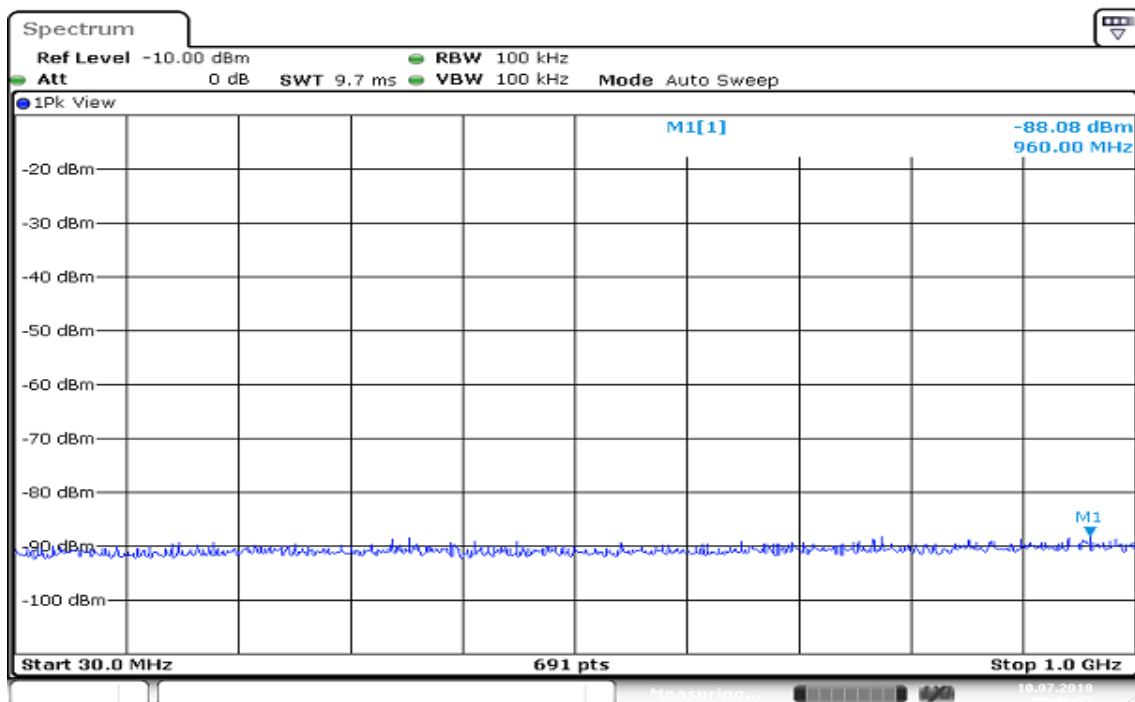
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 09:48:40

Ant 1 / CH High(W56)



Date: 10 JUL 2018 09:49:55

Report No.: T180627D12-RJ3

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TEST RESULT

1GHz ~ 26GHz

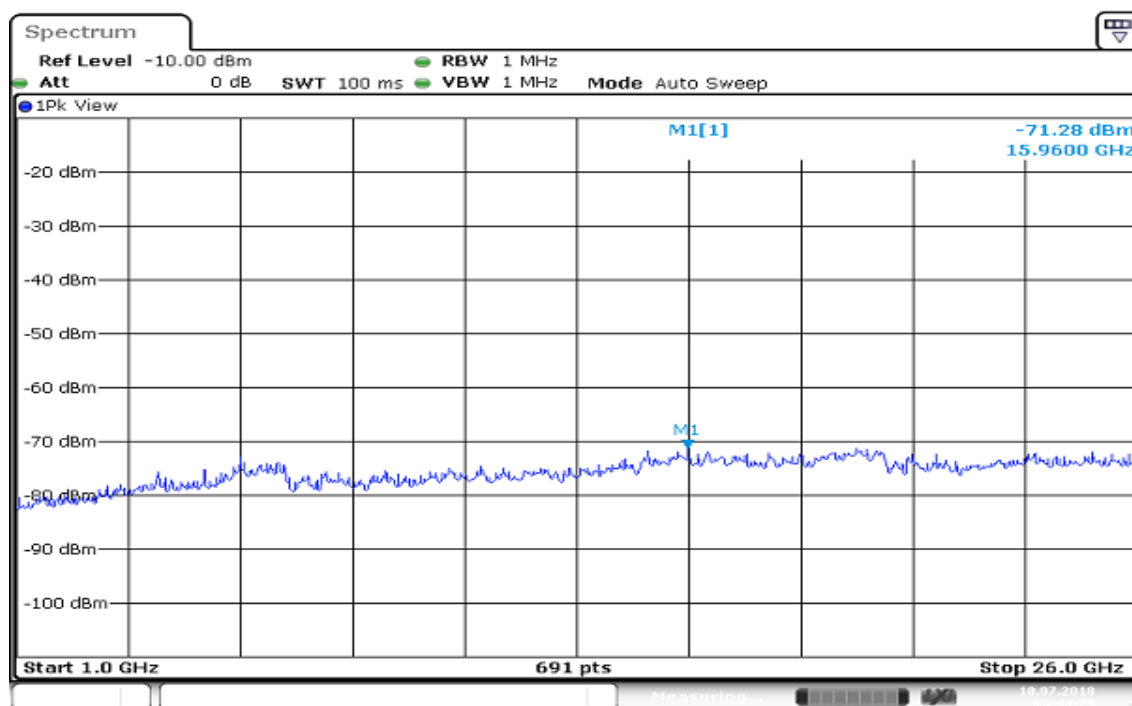
(W52 & W53)

Freq: 1GHz~26GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5190 MHz	15960.0000	-71.28	10.97	0.9311	Normal Voltage
5230 MHz	20193.0000	-70.93	10.97	1.0093	
5310 MHz	20157.0000	-69.08	10.97	1.5453	

TEST PLOTS

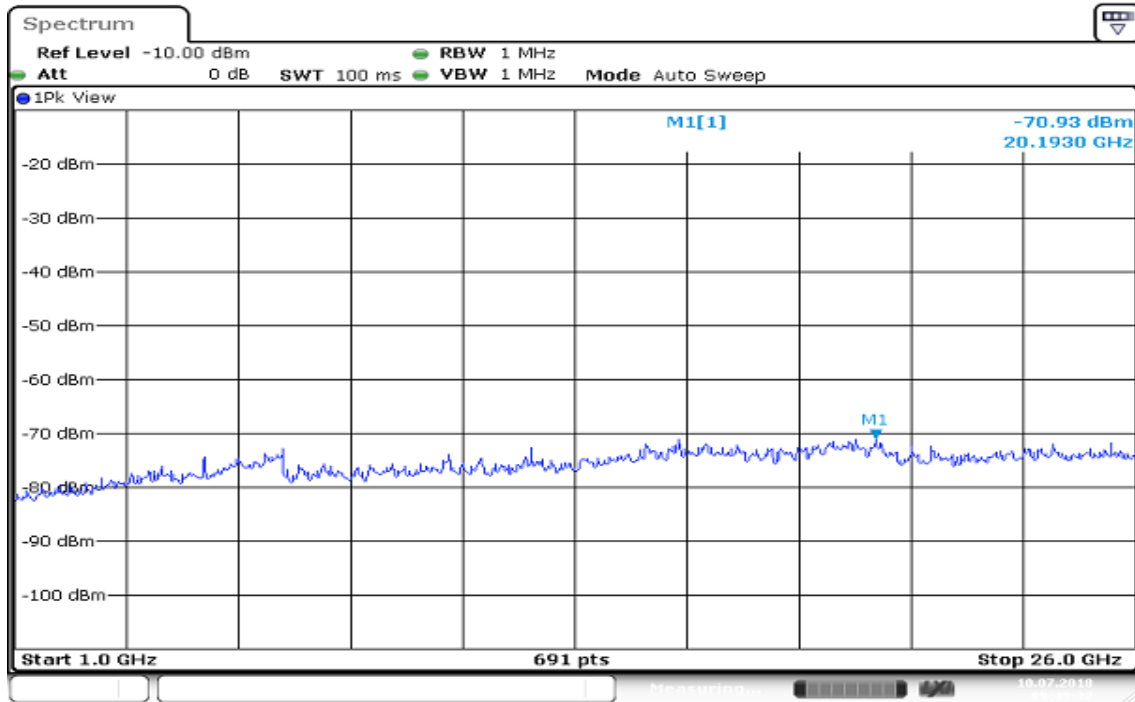
Ant 1 / CH Low(W52 & W53)



Date: 10 JUL 2018 09:44:26

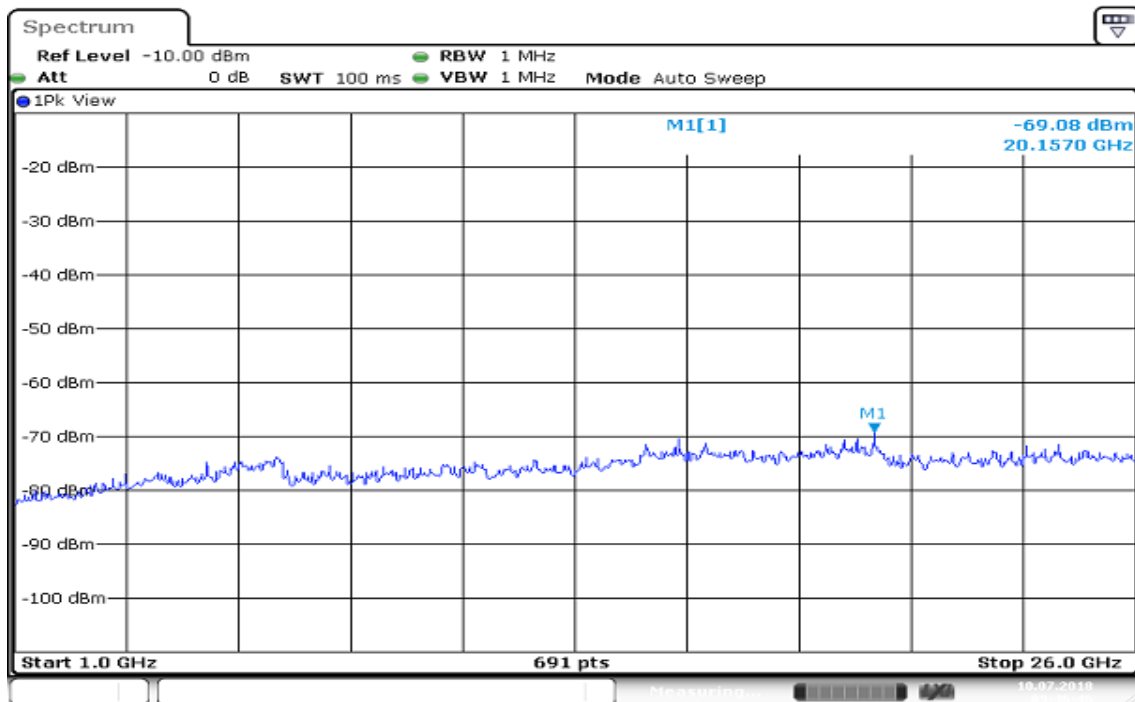
Report No.: T180627D12-RJ3

Ant 1 / CH Mid(W52 & W53)



Date: 10 JUL 2018 09:45:32

Ant 1 / CH High(W52 & W53)



Date: 10 JUL 2018 09:46:46



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TEST RESULT

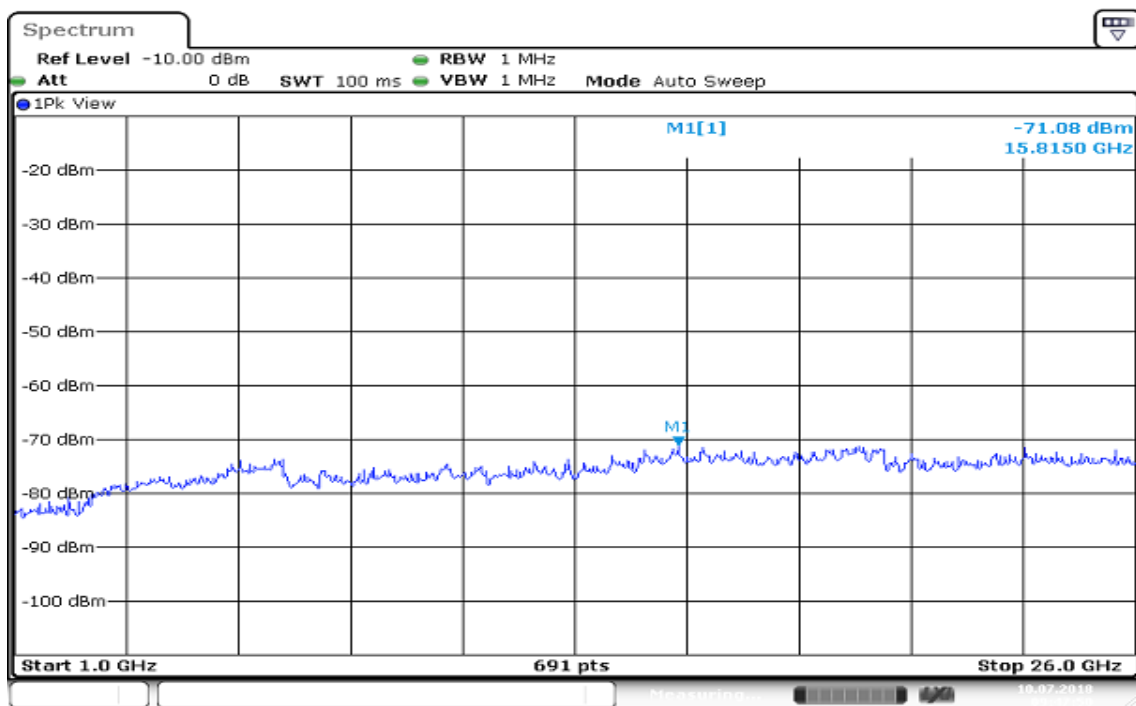
1GHz ~ 26GHz

(W56)

Freq: 1GHz~26GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5510 MHz	1581.5000	-71.08	10.97	0.9750	Normal Voltage
5590 MHz	2030.2000	-70.23	10.97	1.1858	
5670 MHz	1509.2000	-70.96	10.97	1.0023	

Ant 1 / CH Low(W56)



Date: 10 JUL 2018 09:47:50

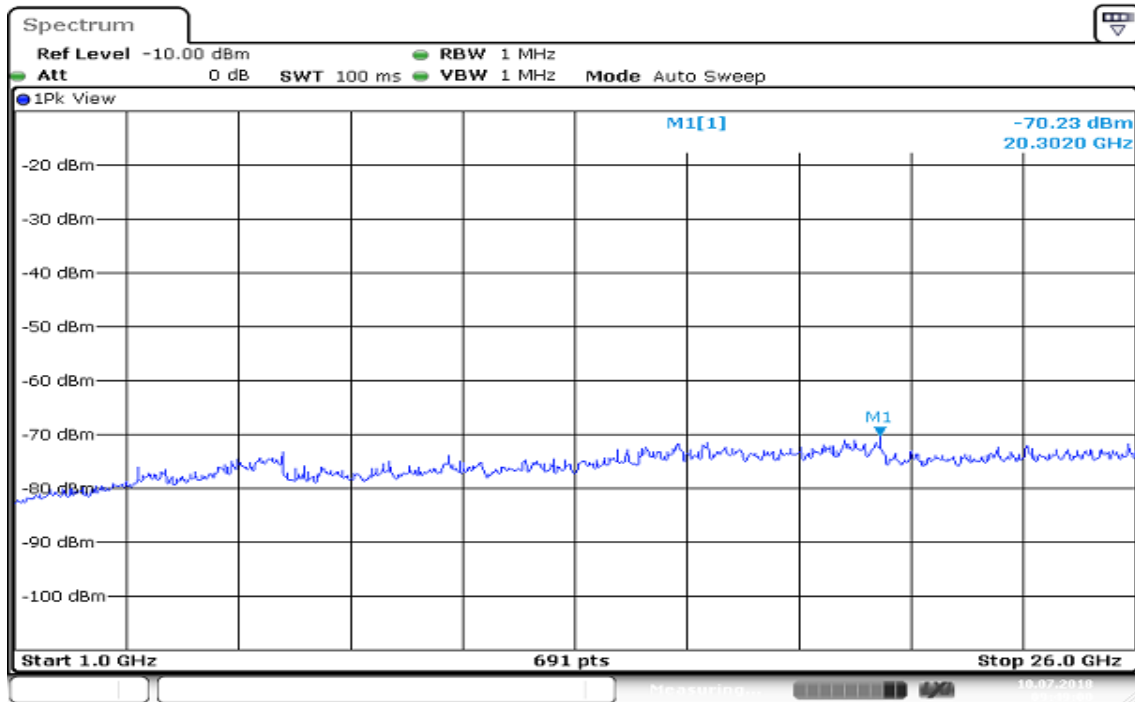


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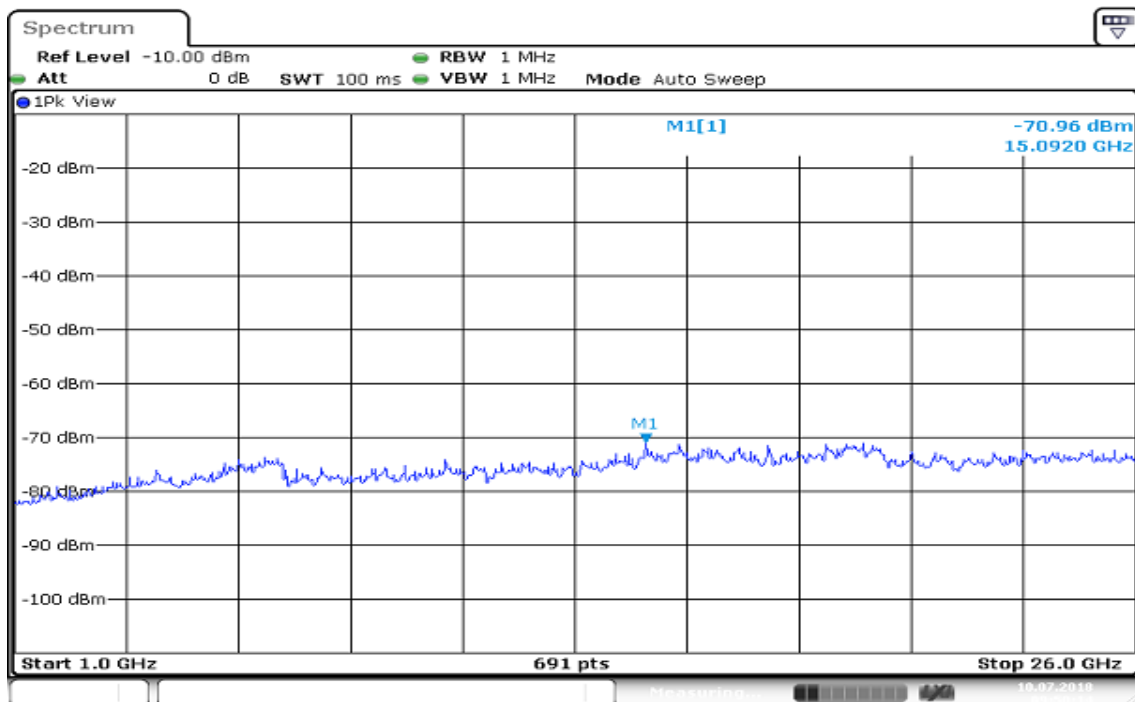
Rev.: 01

Ant 1 / CH Mid(W56)



Date: 10 JUL 2018 09:49:00

Ant 1 / CH High(W56)



Date: 10 JUL 2018 09:50:15

Report No.: T180627D12-RJ3

8.6 OUT-BAND LEAKAGE POWER (EIRP)

TEST RESULT

5.1GHz ~ 5.142GHz

(W52)

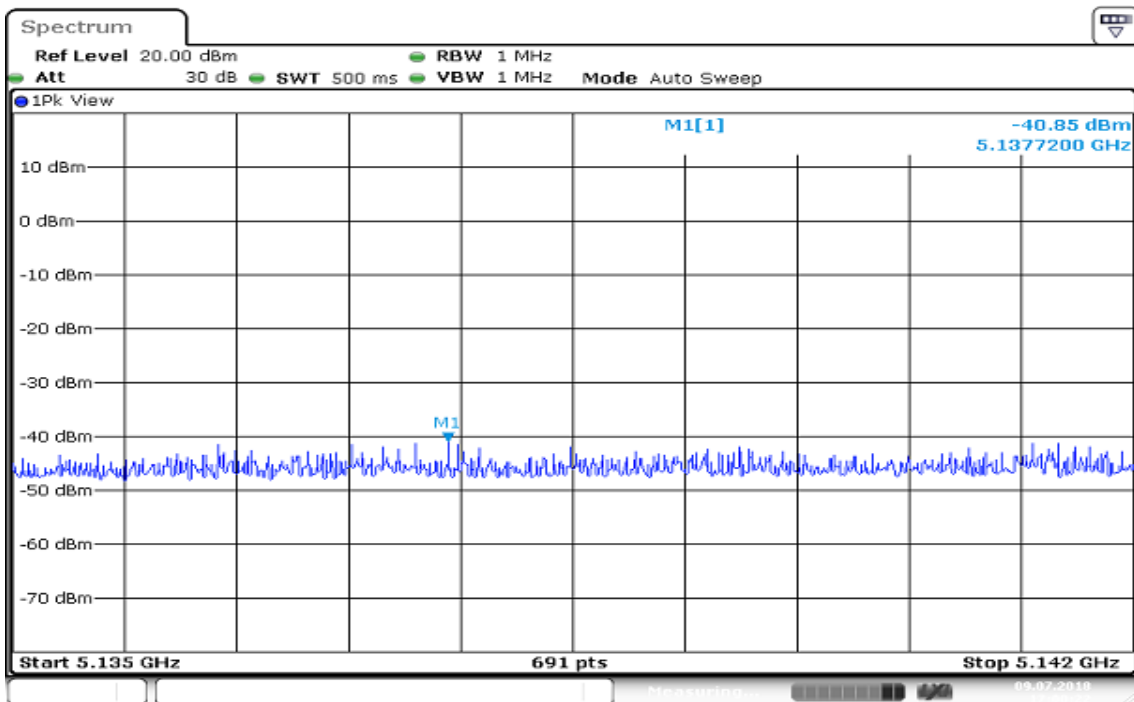
(1) 5100MHz~less than 5142MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	5137.7200	-57.69	16.92	0.08375	Normal Voltage
5230.0000	5135.2080	-45.18	16.92	1.49279	

TEST PLOTS

ANT 1 / CH Low(W52)

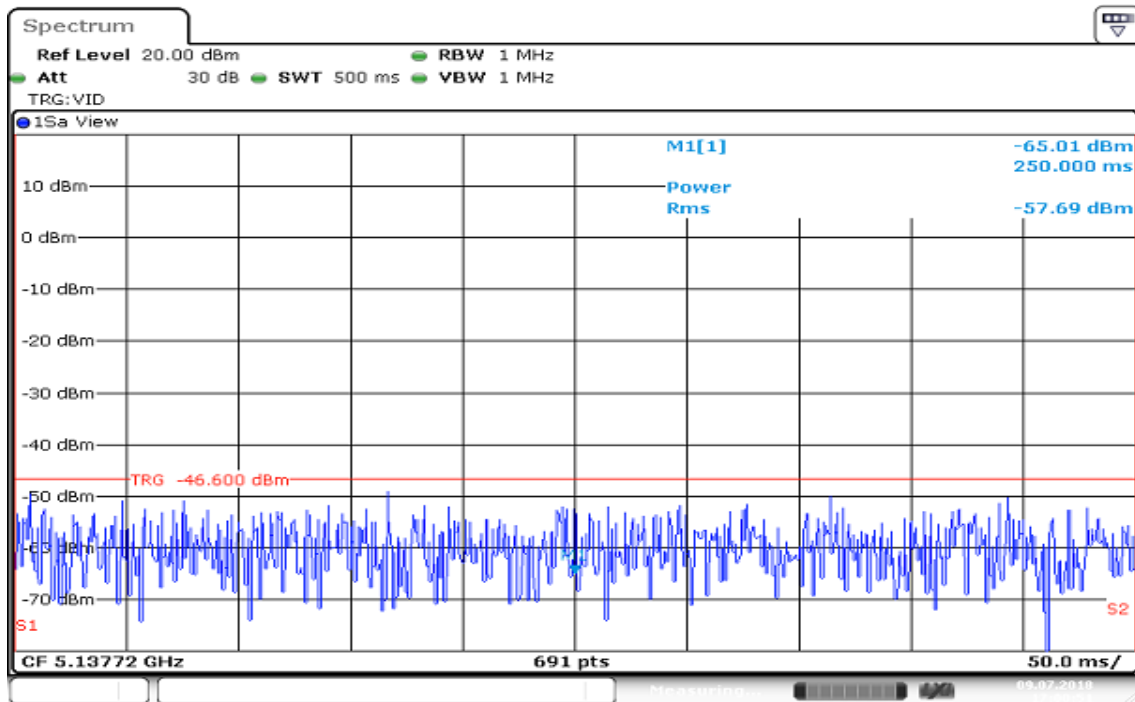
(Search)



Date: 9 JUL 2018 17:00:22

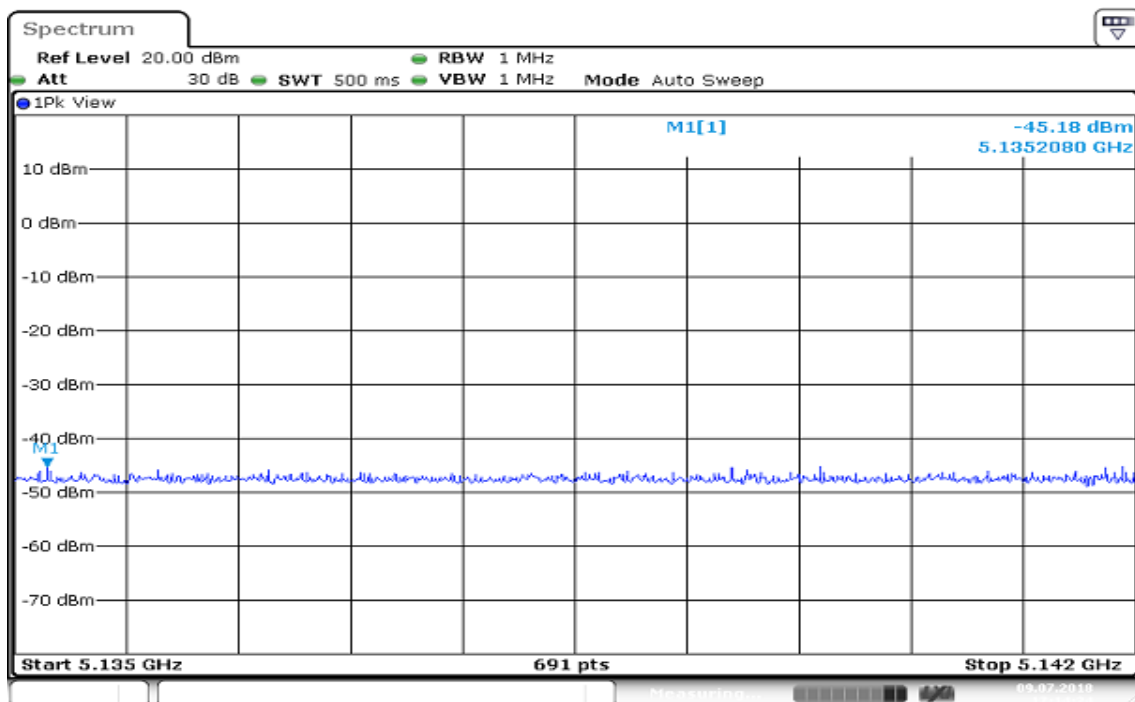
Report No.: T180627D12-RJ3

(Detail)



Date: 9.JUL.2018 17:00:51

ANT 1 / CH High(W52)



Date: 9.JUL.2018 17:14:35

Report No.: T180627D12-RJ3

TEST RESULT

5.1GHz ~ 5.21GHz

(W53)

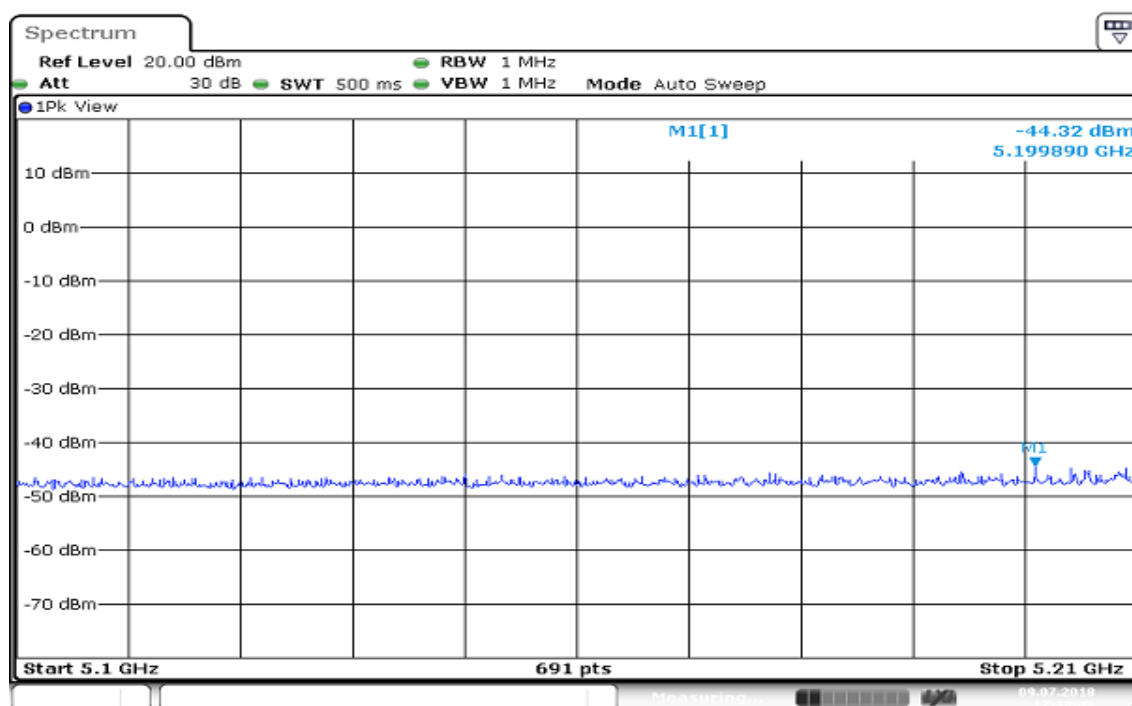
(1) 5100MHz~less than 5210MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5270.0000	5199.8900	-44.32	16.92	1.81970	Normal Voltage
5310.0000	5193.8400	-45.63	16.92	1.34586	

TEST PLOTS

ANT 1 / CH Low(W53)

(Search)



Date: 9 JUL 2018 17:18:48

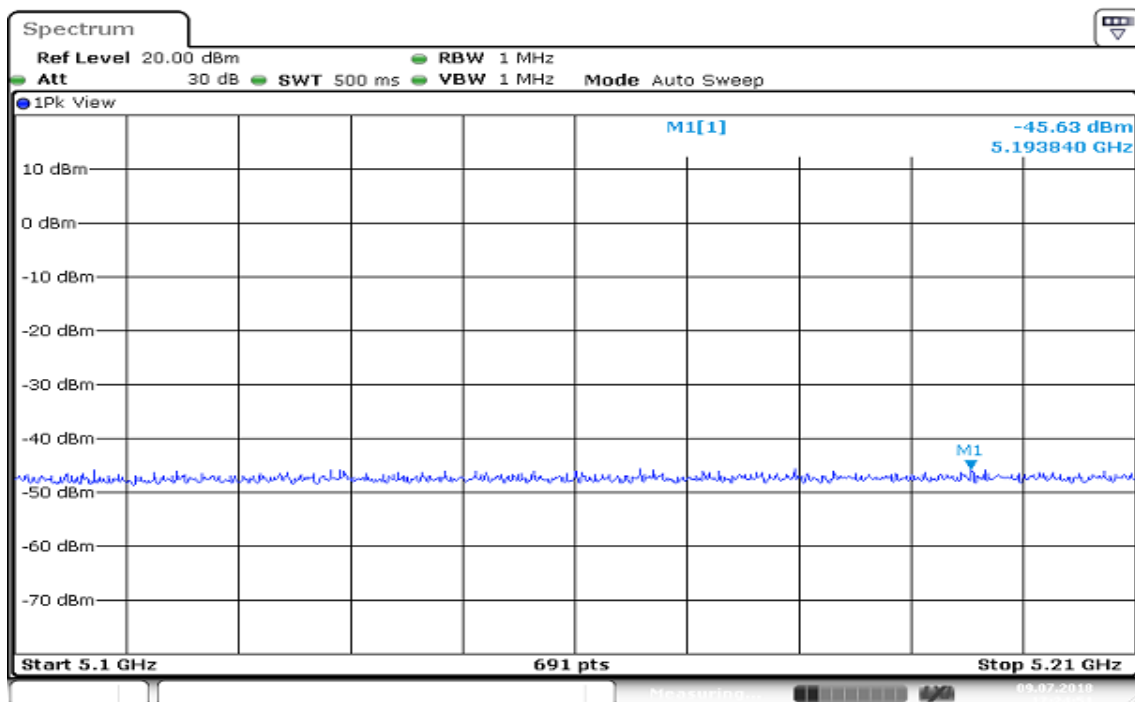
Report No.: T180627D12-RJ3

(Detail)



Date: 9.JUL.2018 17:18:00

ANT 1 / CH High(W53)



Date: 9.JUL.2018 17:24:51

Report No.: T180627D12-RJ3

TEST RESULT

5.455GHz ~ 5.46GHz

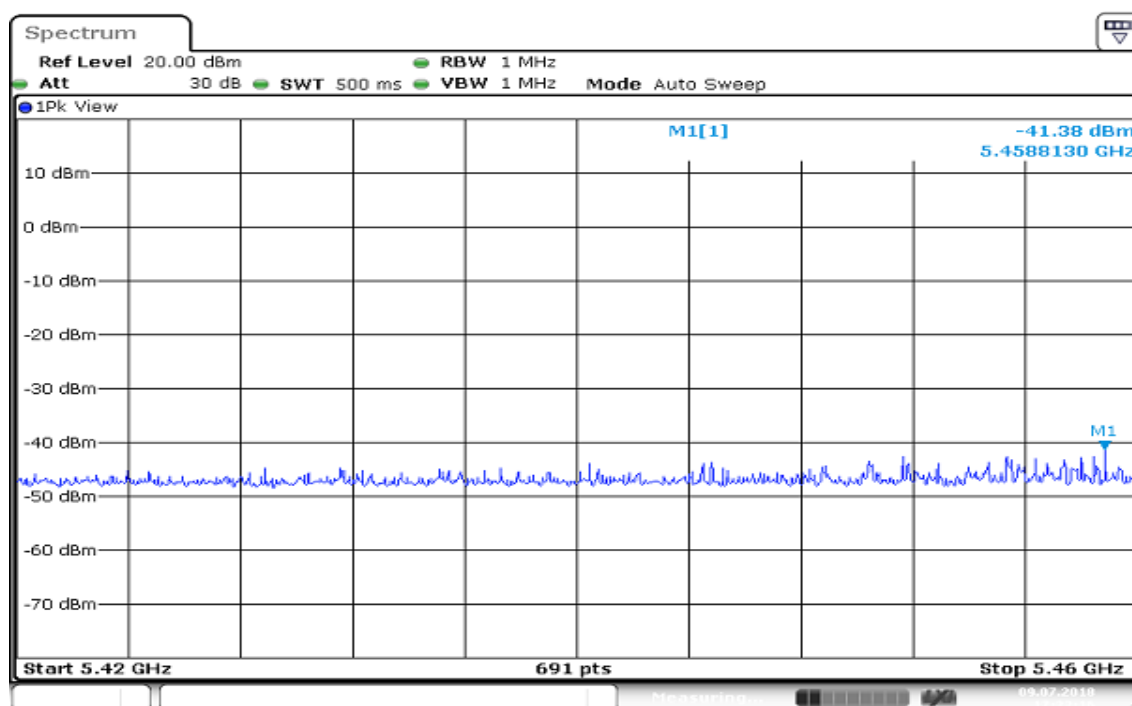
(W56)

(1) 5420MHz~less than 5460MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5510.0000	5458.8130	-41.38	16.92	3.58096	Normal Voltage
5590.0000	5437.0480	-45.69	16.92	1.32739	
5670.0000	5430.9120	-45.66	16.92	1.33660	

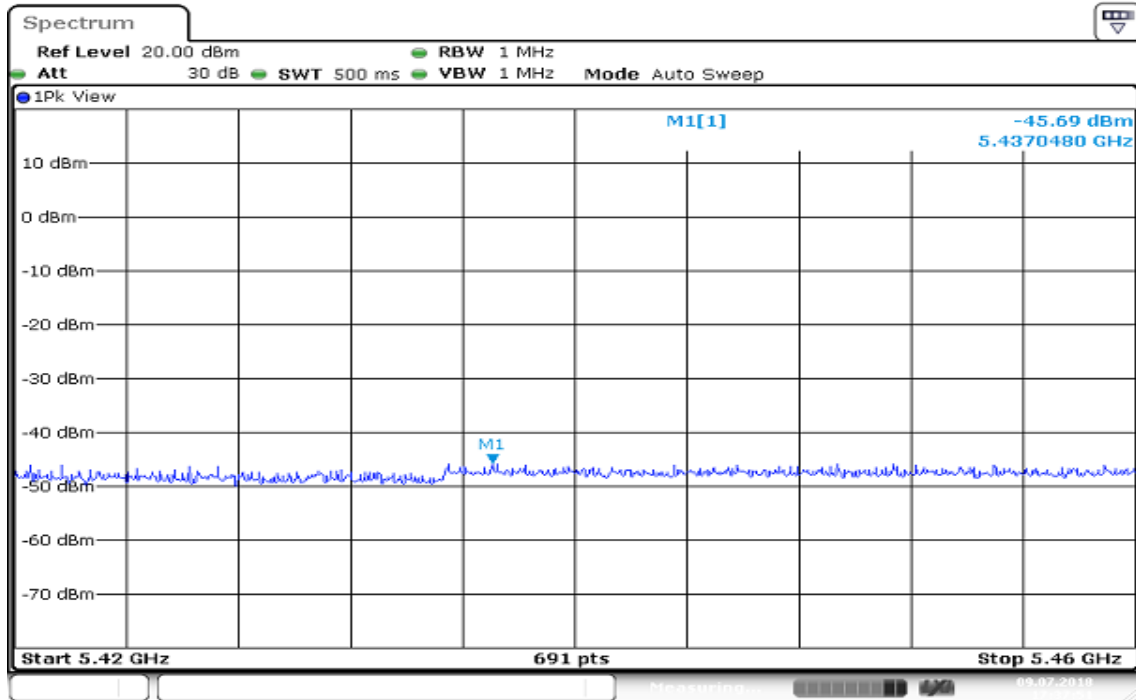
TEST PLOTS

ANT 1 / CH Low(W56)

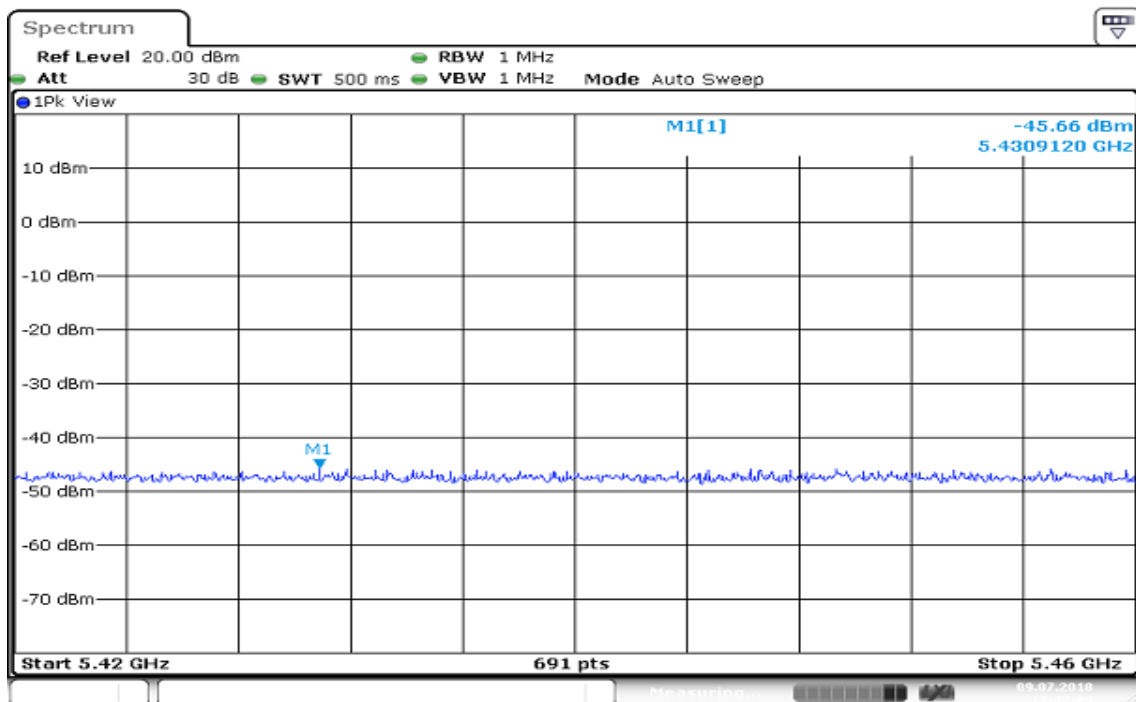


Date: 9 JUL 2018 17:33:16

ANT 1 / CH Mid(W56)



ANT 1 / CH High(W56)



Report No.: T180627D12-RJ3

TEST RESULT

5.142GHz ~ 5.15GHz

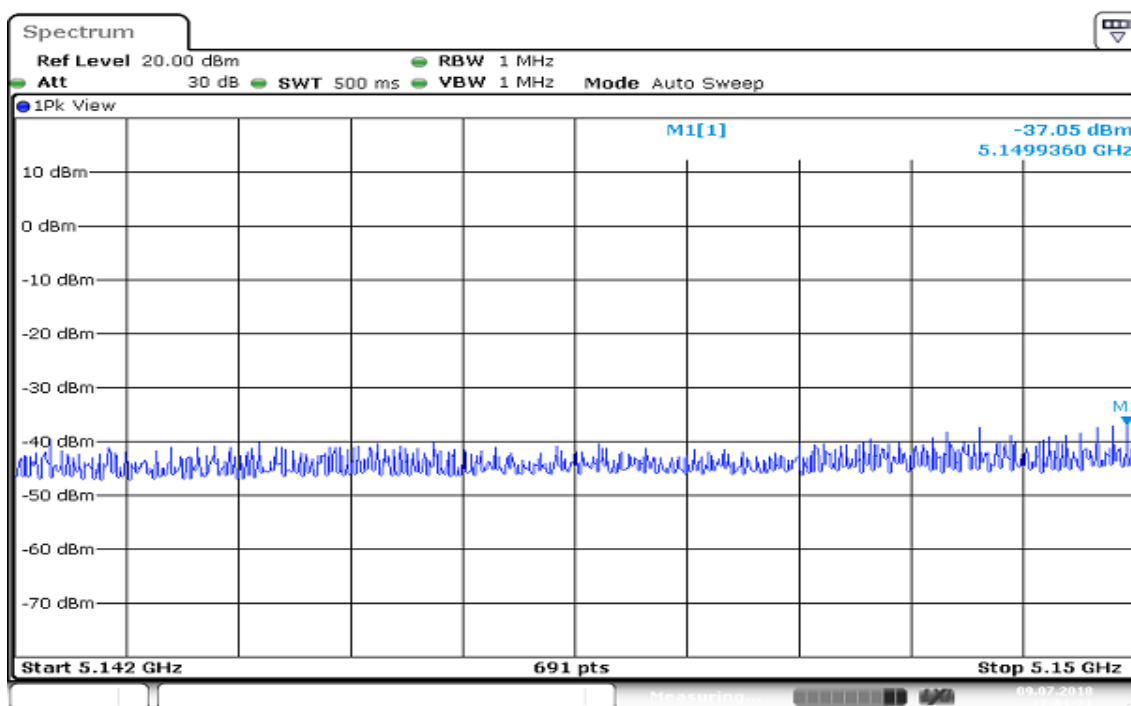
(W52)

(2) 5142MHz~less than 5150MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5190.0000	5149.9360	-37.05	16.92	9.70510	Normal Voltage
5230.0000	5144.1710	-45.13	16.92	1.51008	

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 9 JUL 2018 17:01:22

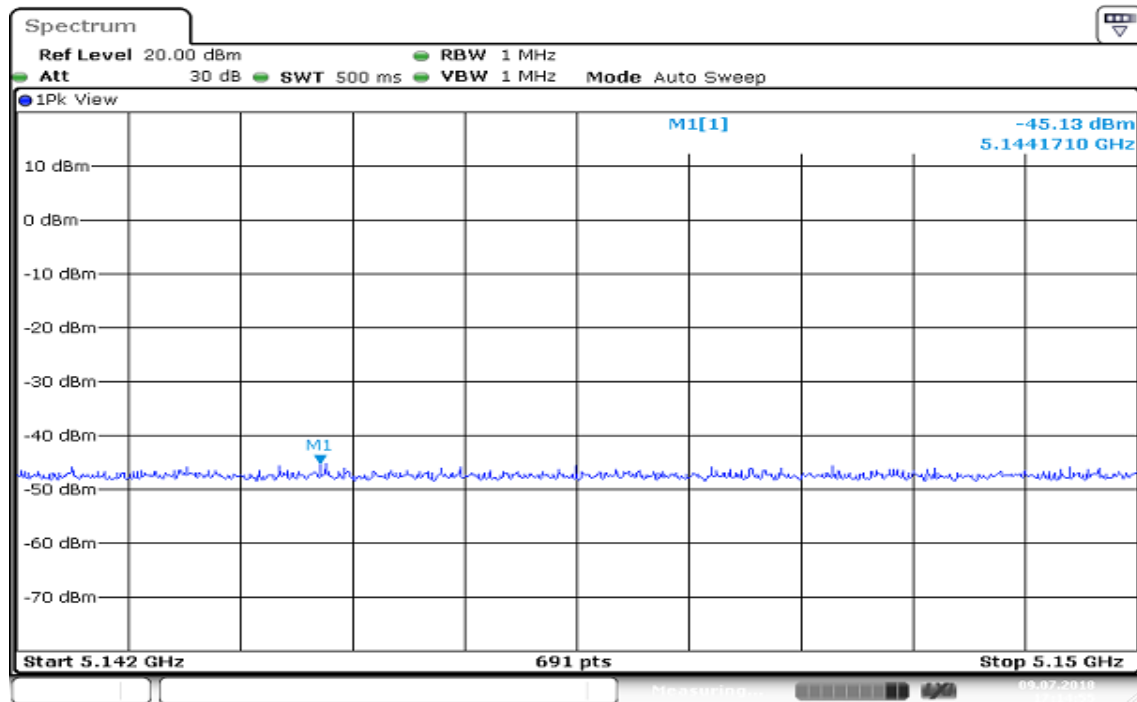


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ANT 1 / CH High(W52)



Date: 9 JUL 2018 17:14:55

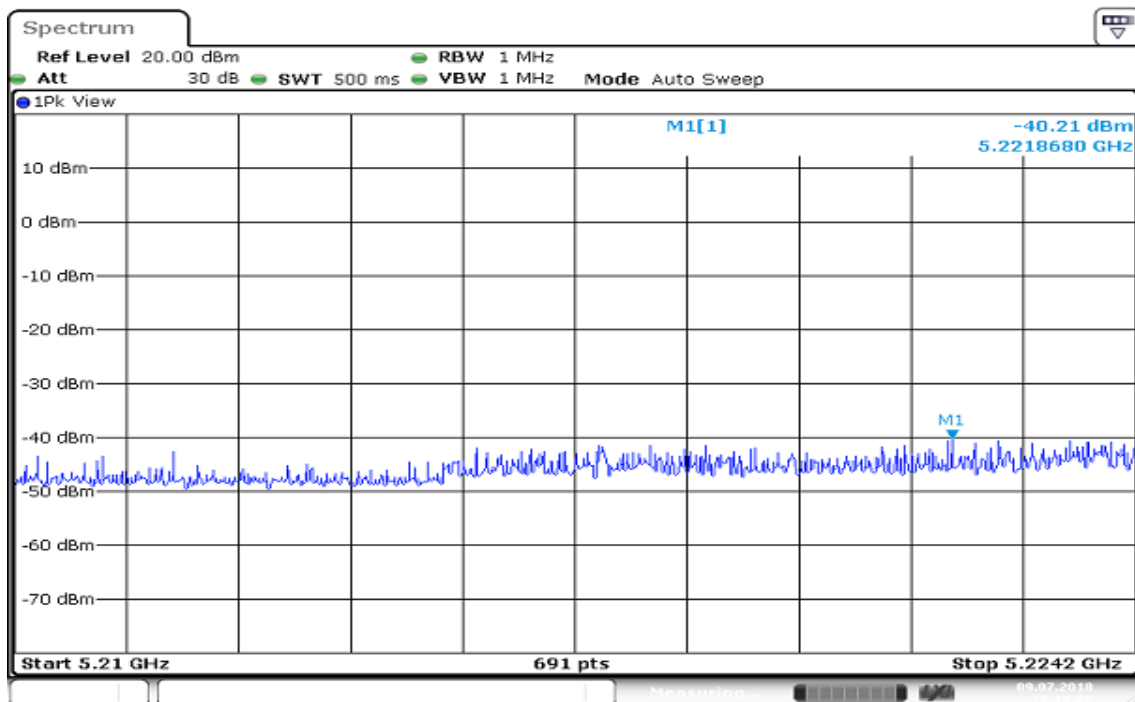


Report No.: T180627D12-RJ3

TEST RESULT**5.21GHz ~ 5.2242GHz****(W53)**

(2) 5210MHz~less than 5.2242MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5221.8680	-56.46	16.92	0.11117	Normal Voltage
5310.0000	5213.7090	-45.03	16.92	1.54525	

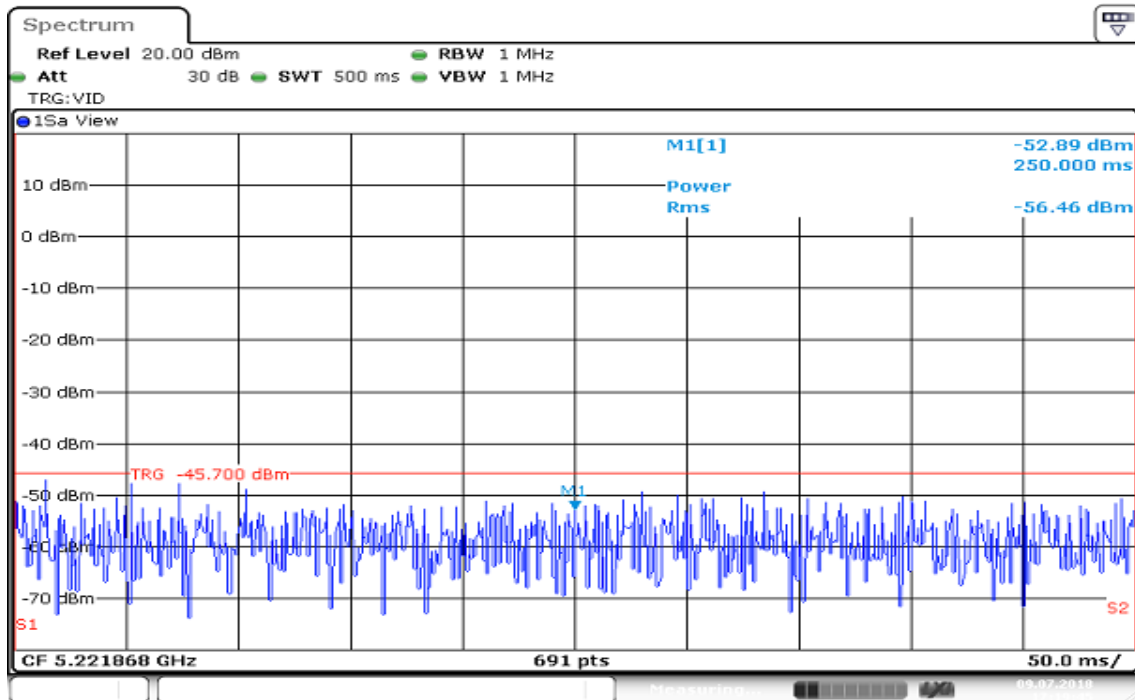
TEST PLOTS**ANT 1 / CH Low(W53)****(Search)**

Date: 9 JUL 2018 17:19:09

Report No.: T180627D12-RJ3

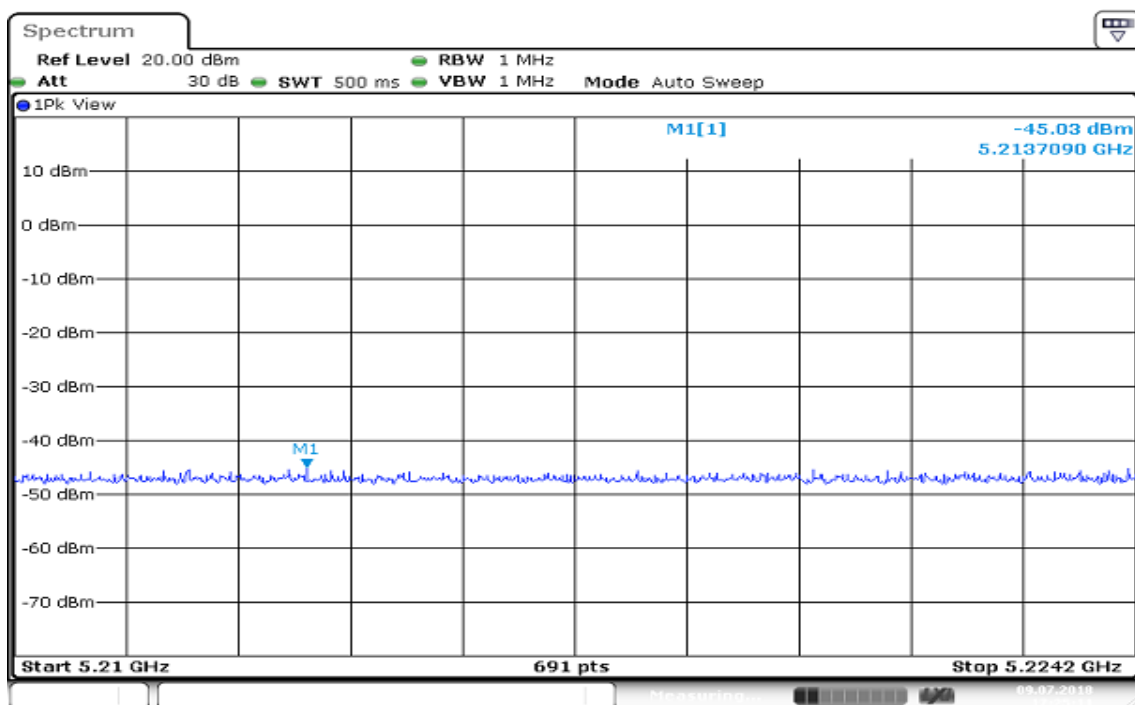
ANT 1 / CH Low(W53)

(Detail)



Date: 9 JUL 2018 17:19:45

ANT 1 / CH High(W53)



Date: 9 JUL 2018 17:25:12

Report No.: T180627D12-RJ3

TEST RESULT

5.46GHz ~ 5.47GHz

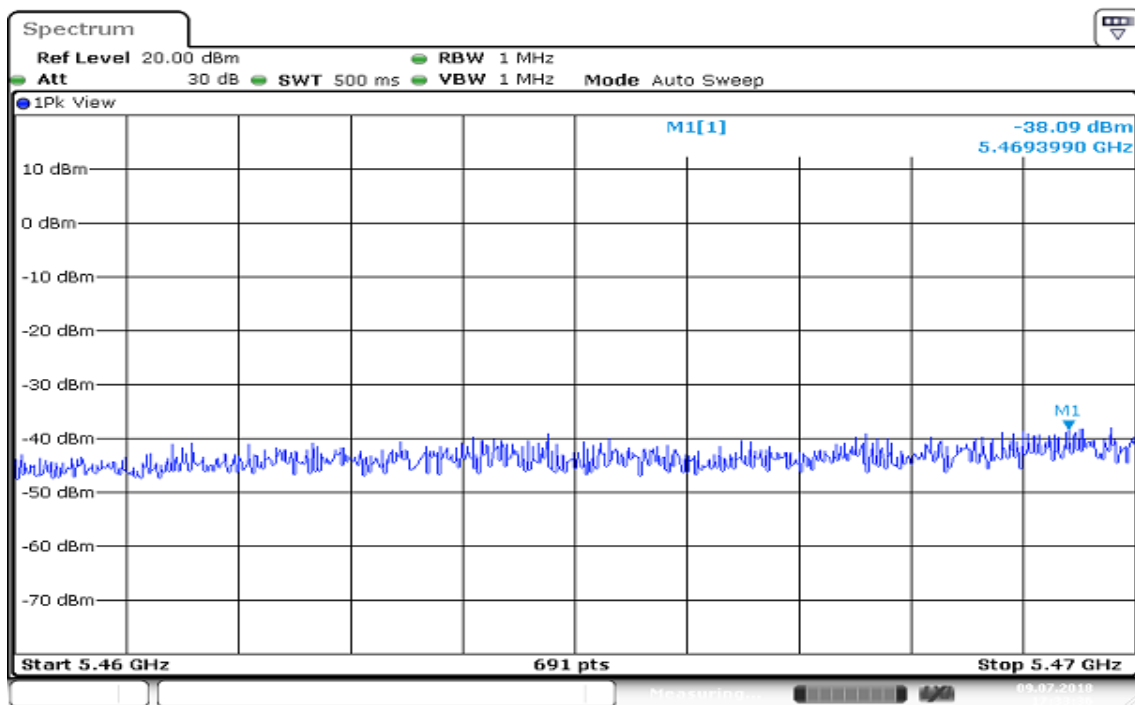
(W56)

(2) 5460MHz~less than 5470MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5510.0000	5469.3990	-38.09	16.92	7.63836	Normal Voltage
5590.0000	5468.0680	-45.11	16.92	1.51705	
5670.0000	5465.3470	-44.94	16.92	1.57761	

TEST PLOTS

ANT 1 / CH Low(W56)



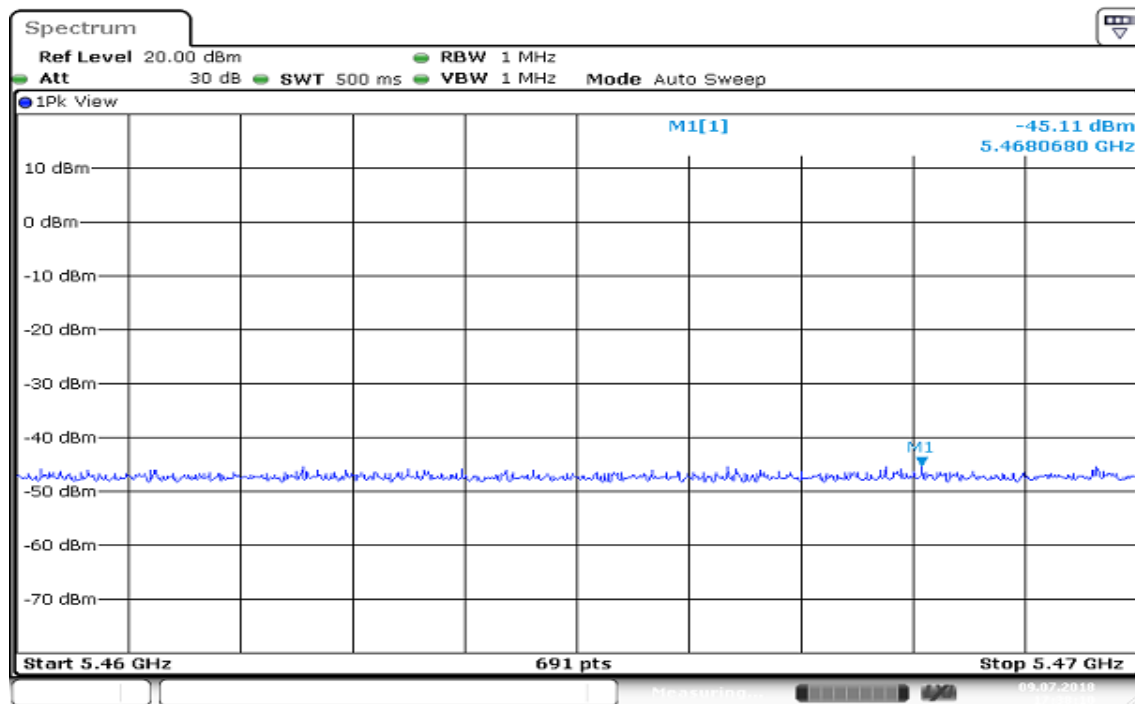
Date: 9 JUL 2018 17:23:27

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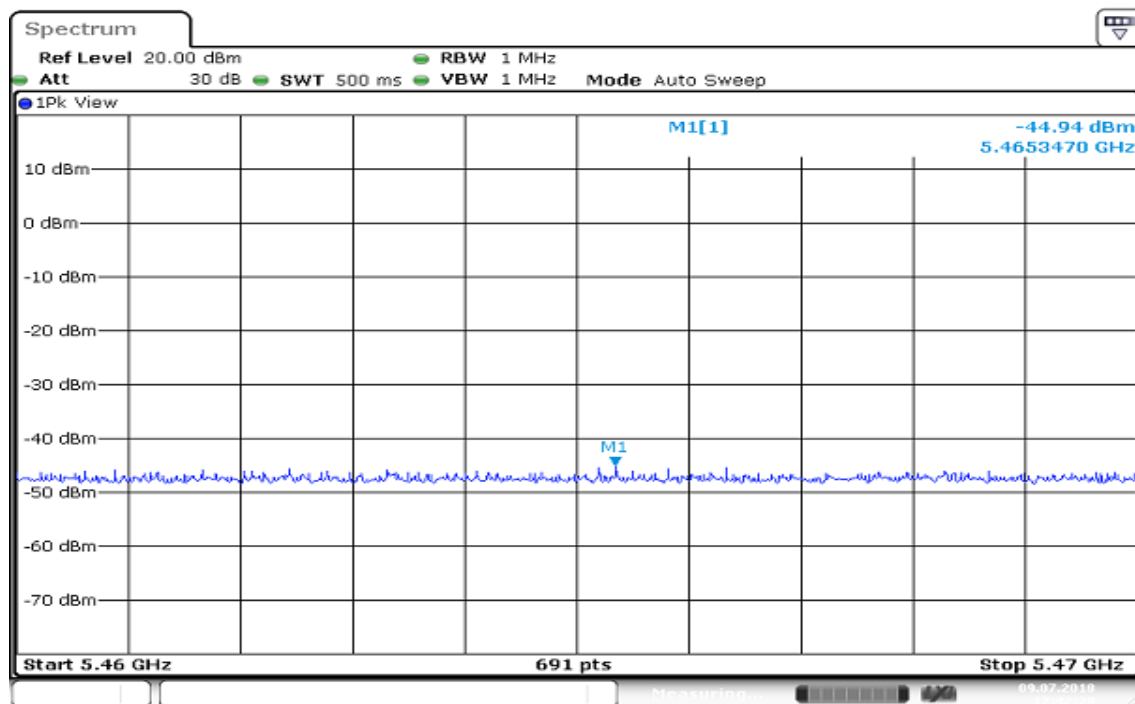
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ANT 1 / CH Mid(W56)



Date: 9 JUL 2018 17:28:11

ANT 1 / CH High(W56)



Date: 9 JUL 2018 17:42:28



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TEST RESULT

5.25GHz ~ 5.251GHz

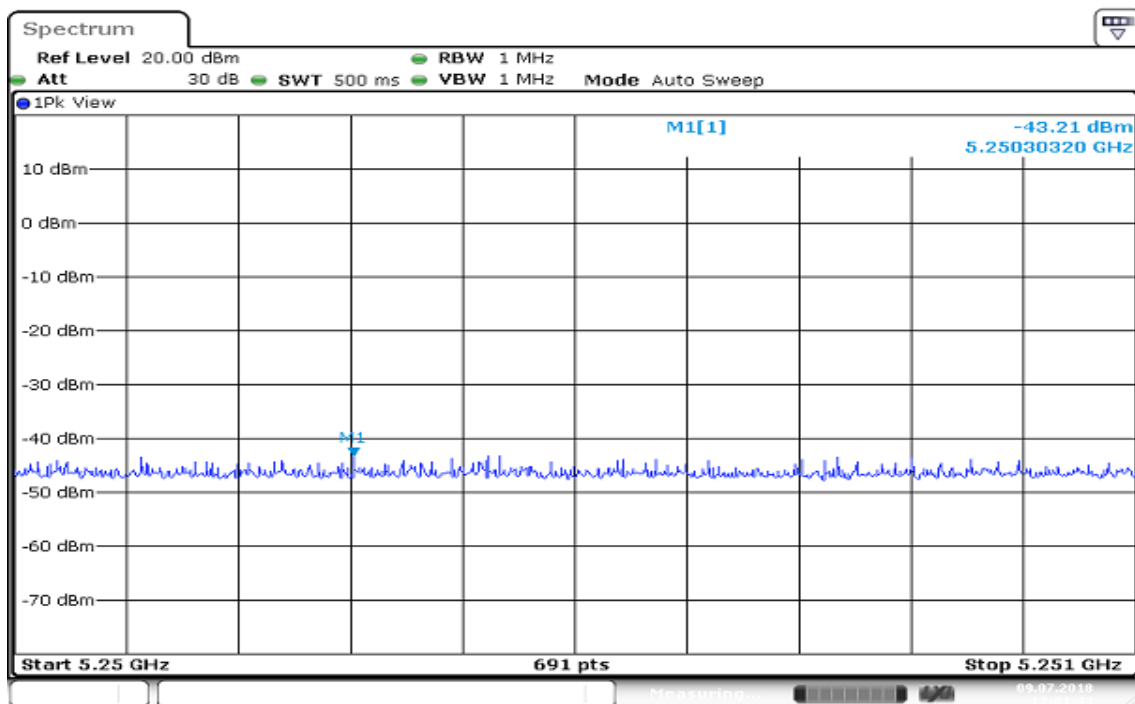
(W52)

(3) 5250MHz~less than 5251MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	5250.3032	-43.21	16.92	2.34963	Normal Voltage
5230.0000	5250.5130	-27.85	16.92	80.72350	

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 9 JUL 2018 17:01:43

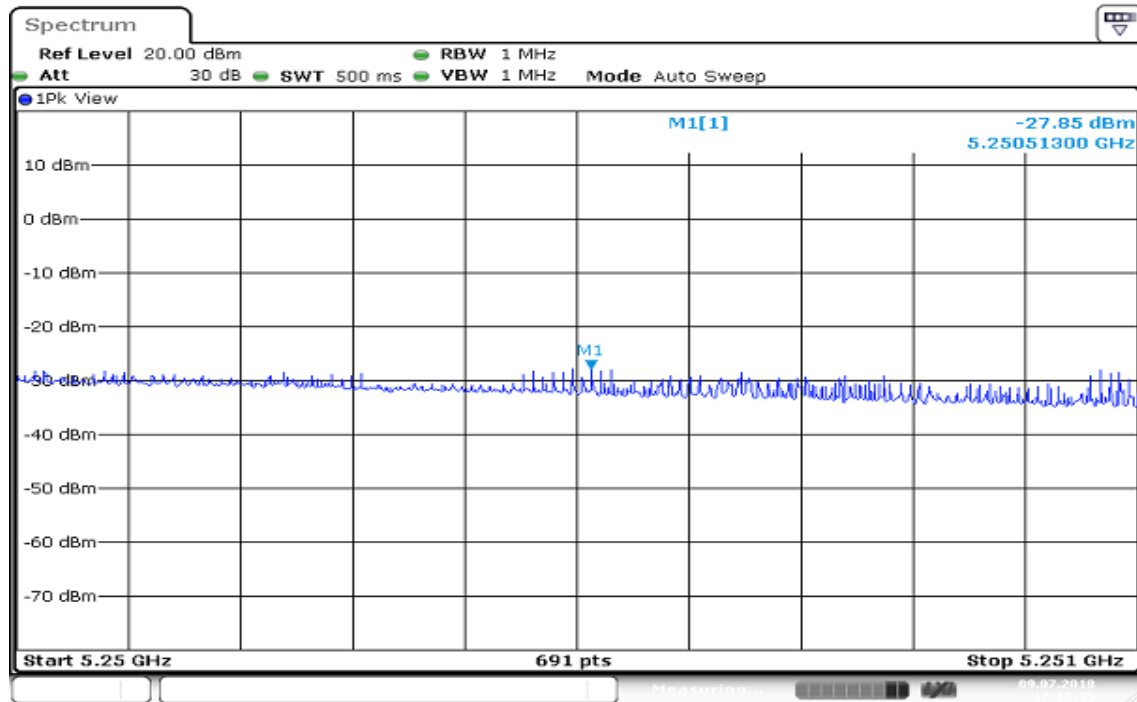


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ANT 1 / CH High(W52)



Date: 9 JUL 2018 17:15:16

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TEST RESULT

5.2242GHz ~ 5.23GHz

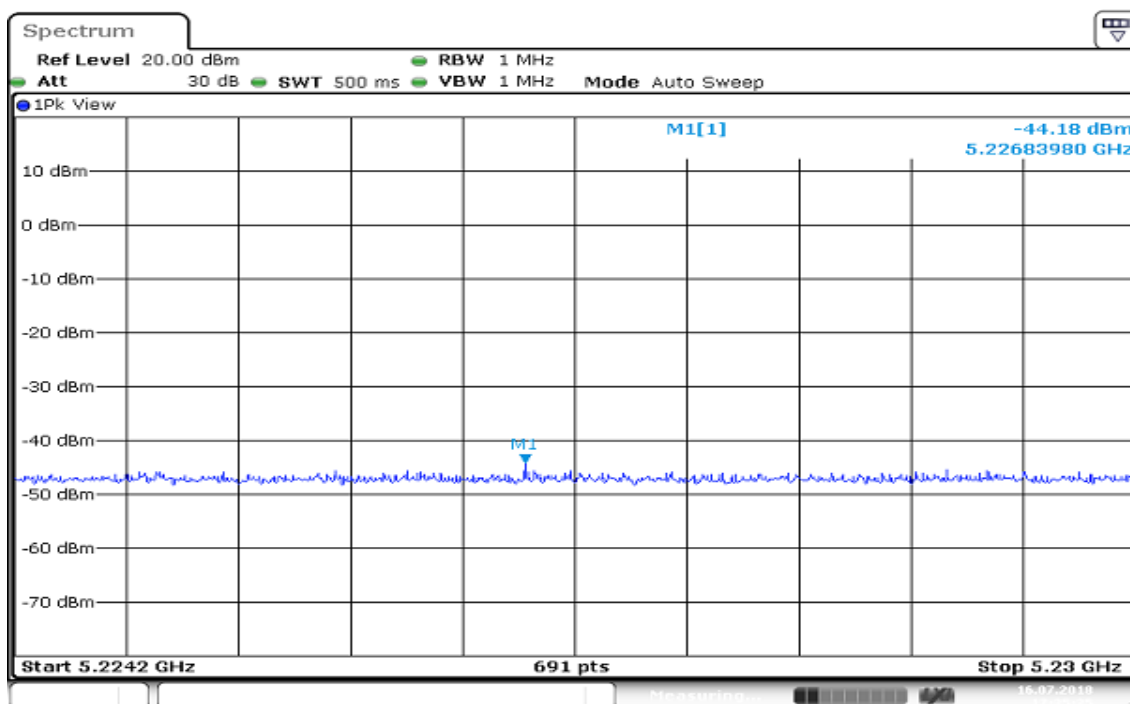
(W53)

(3) 5.2242MHz~less than 5230MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5226.8398	-44.18	16.92	1.87932	Normal Voltage
5310.0000	5226.6887	-44.12	16.92	1.90546	

TEST PLOTS

ANT 1 / CH Low(W53)



Date: 16 JUL 2018 17:35:36

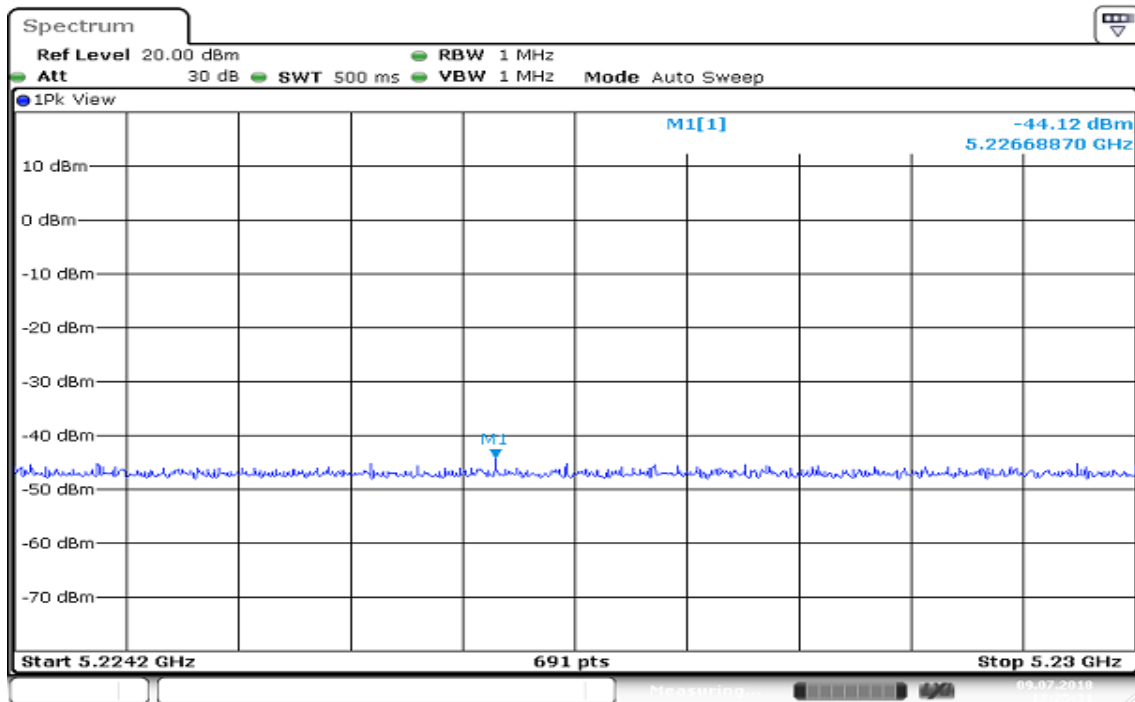


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ANT 1 / CH High(W53)



Date: 9 JUL 2018 17:25:22

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TEST RESULT

5.725GHz ~ 5.76GHz

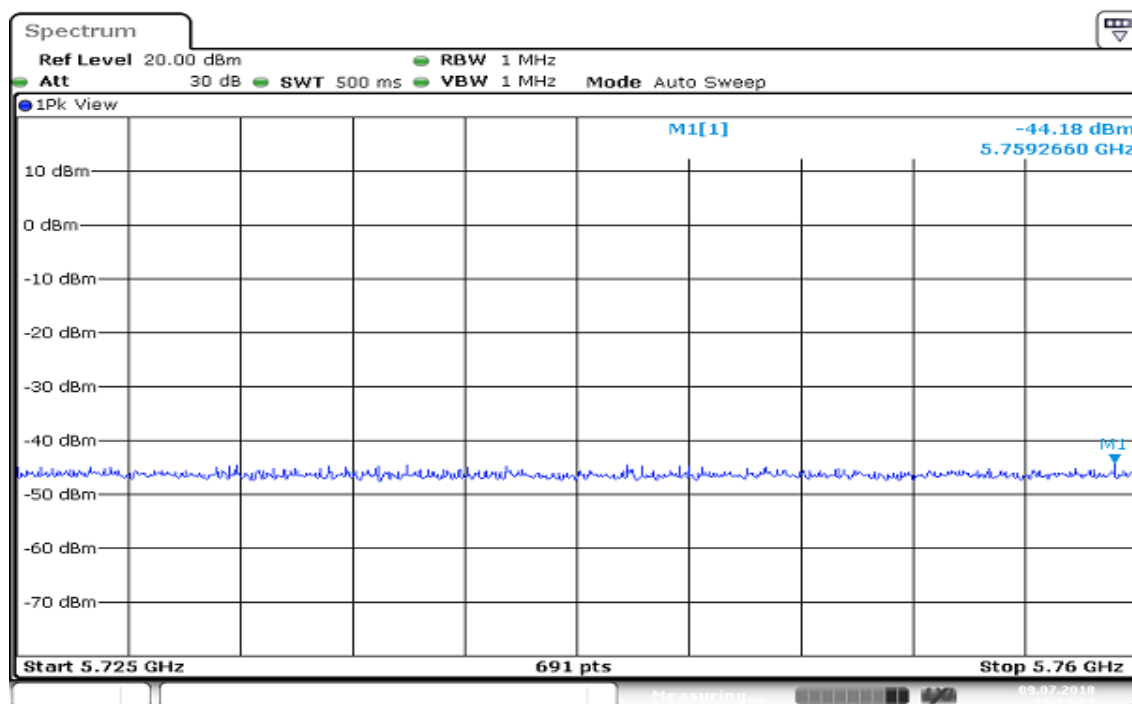
(W56)

(3) 5725MHz~less than 5760MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5510.0000	5759.2660	-44.18	16.92	1.87932	Normal Voltage
5590.0000	5741.2340	-43.87	16.92	2.01837	
5670.0000	5733.9400	-43.04	16.92	2.44343	

TEST PLOTS

ANT 1 / CH Low(W56)



Date: 9 JUL 2018 17:24:04

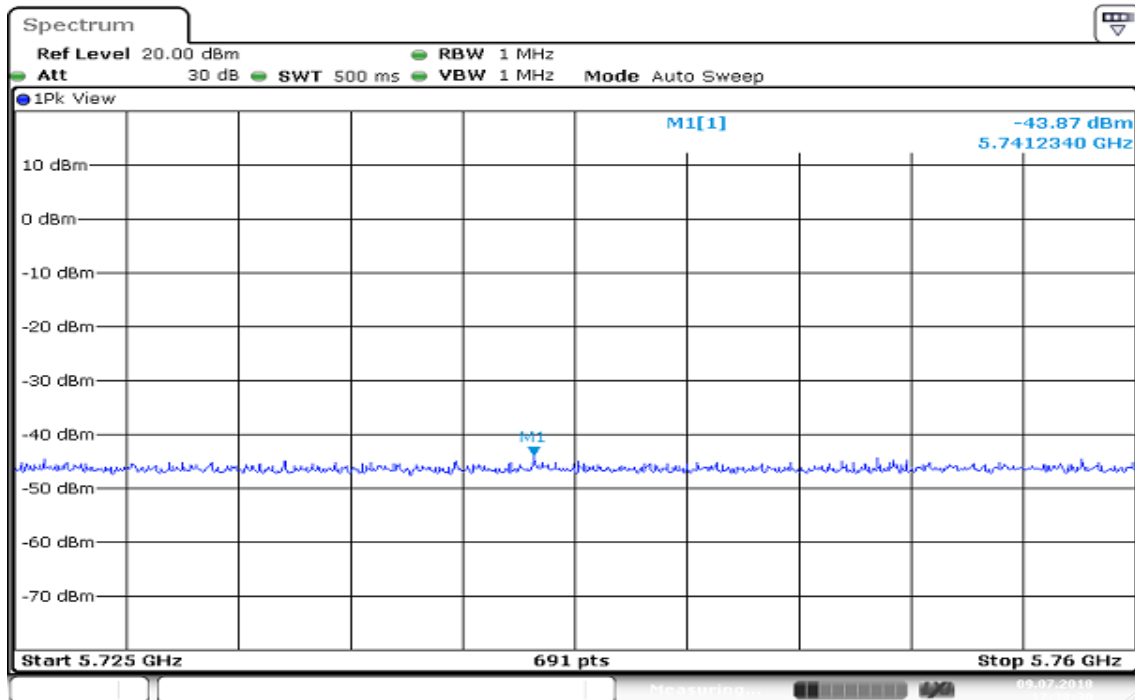


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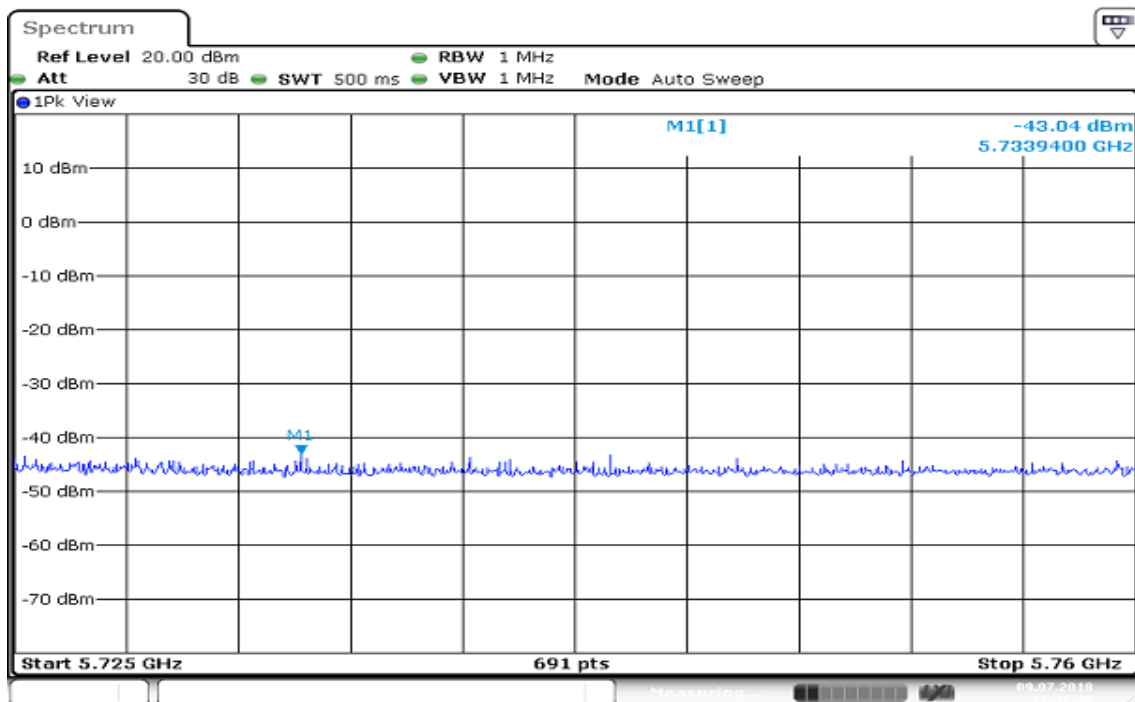
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ANT 1 / CH Mid(W56)



Date: 9 JUL 2018 17:38:30

ANT 1 / CH High(W56)



Date: 9 JUL 2018 17:42:48

Report No.: T180627D12-RJ3

TEST RESULT

5.251GHz ~ 5.27GHz

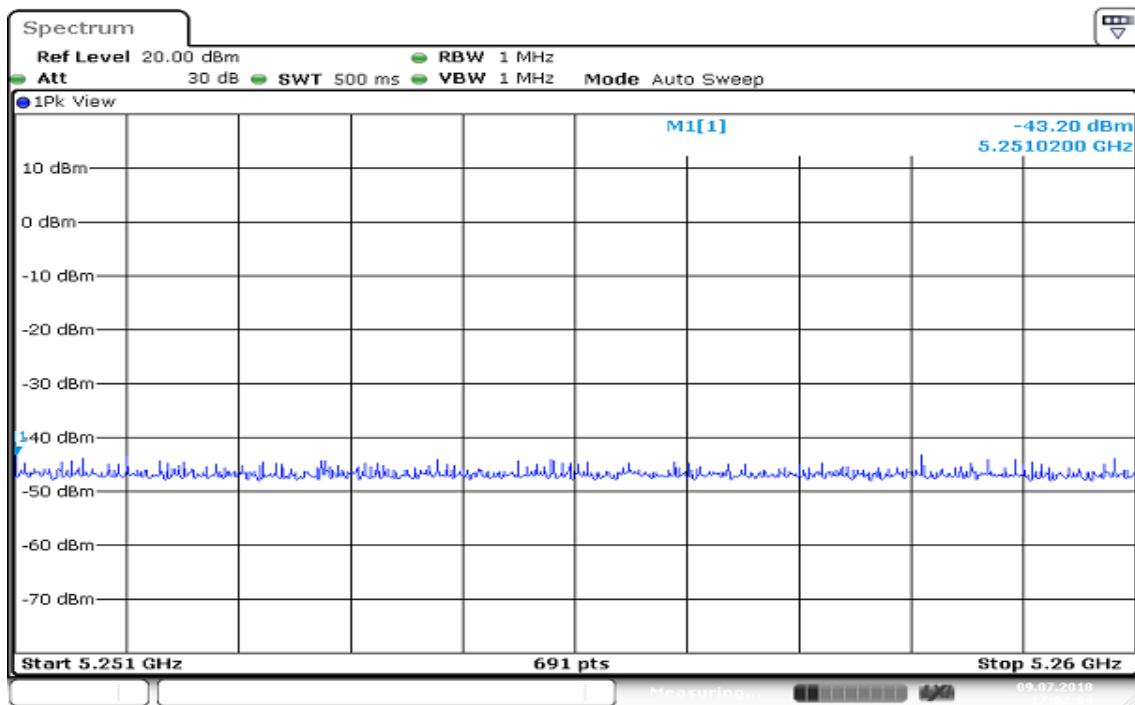
(W52)

(4) 5251MHz~5270MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	5251.0200	-43.20	16.92	2.35505	Normal Voltage
5230.0000	5251.4100	-38.33	16.92	7.22770	

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 9 JUL 2018 17:02:04

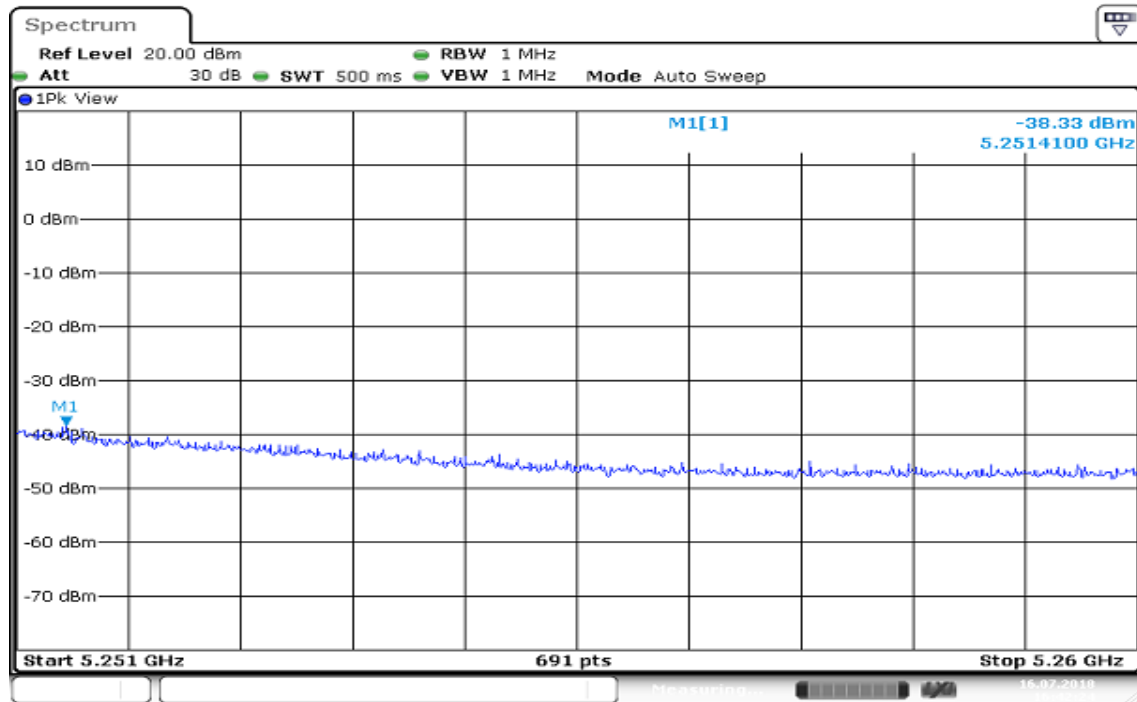


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ANT 1 / CH High(W52)



Date: 16 JUL 2018 16:42:25

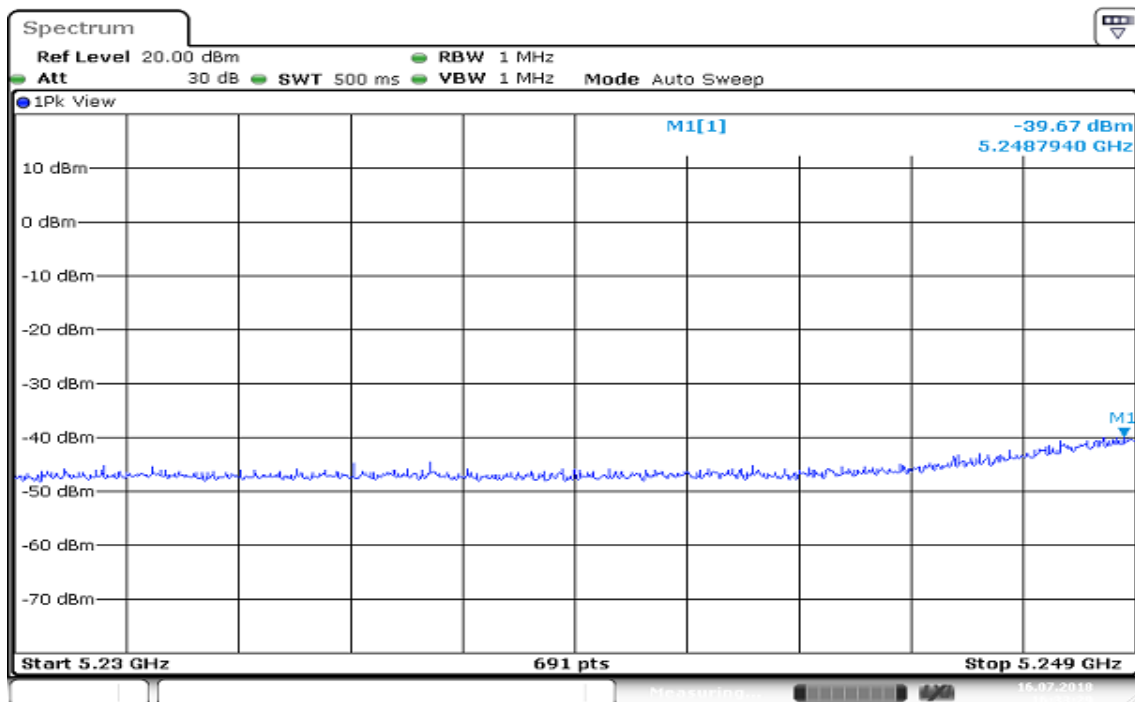


Report No.: T180627D12-RJ3

TEST RESULT**5.23GHz ~ 5.249GHz****(W53)**

(4) 5230MHz~5249MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5248.7940	-39.67	16.92	5.30884	Normal Voltage
5310.0000	5246.1270	-42.98	16.92	2.47742	

TEST PLOTS**ANT 1 / CH Low(W53)**

Date: 16 JUL 2018 16:33:30

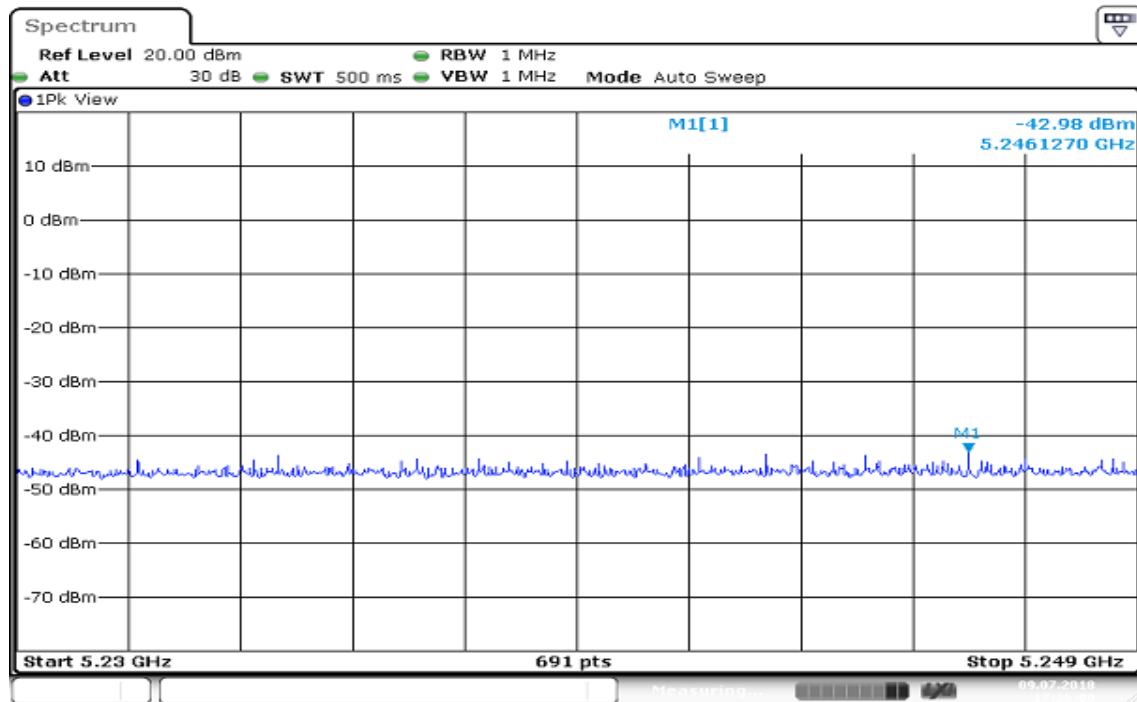


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ANT 1 / CH High(W53)



Date: 9 JUL 2018 17:26:00



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TEST RESULT

5.27GHz ~ 5.2758GHz

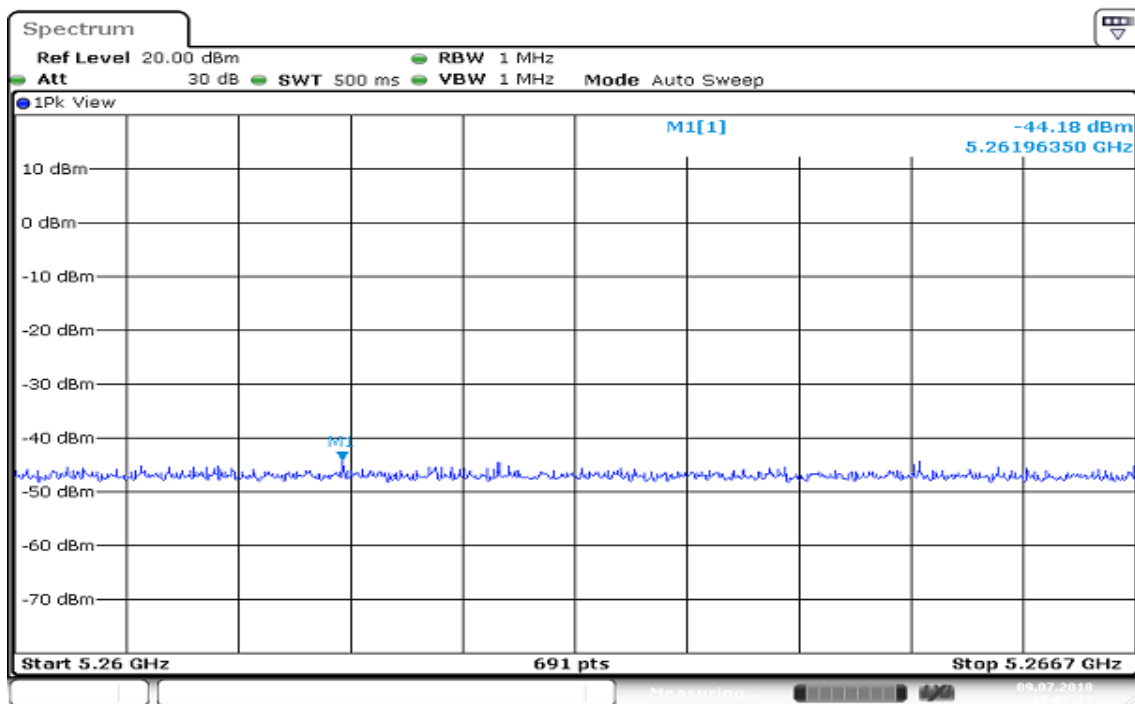
(W52)

(5) 5270MHz~5.2758MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5190.0000	5261.9635	-44.18	16.92	1.87932	Normal Voltage
5230.0000	5261.4108	-45.02	16.92	1.54882	

TEST PLOTS

ANT 1 / CH Low(W52)



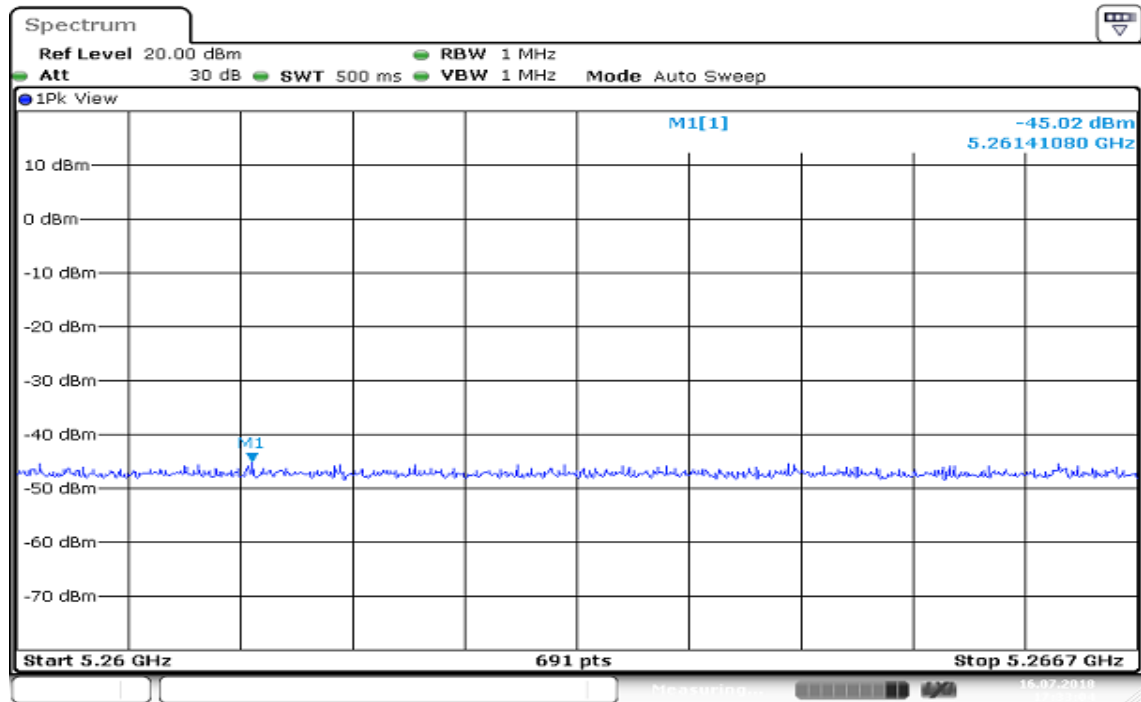


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ANT 1 / CH High(W52)



Date: 16 JUL 2018 17:33:05

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TEST RESULT

5.249GHz ~ 5.25GHz

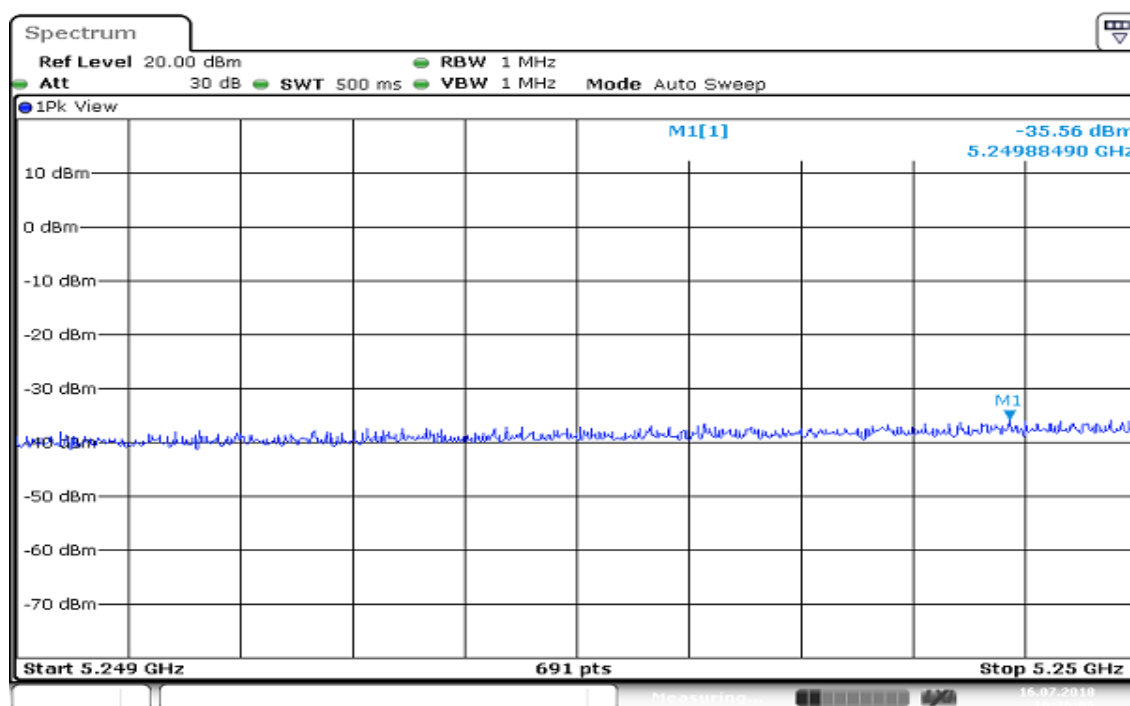
(W53)

(5) 5249MHz~5250MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5249.8849	-35.56	16.92	13.67729	Normal Voltage
5310.0000	5249.6216	-42.56	16.92	2.72898	

TEST PLOTS

ANT 1 / CH Low(W53)



Date: 16 JUL 2018 16:36:06

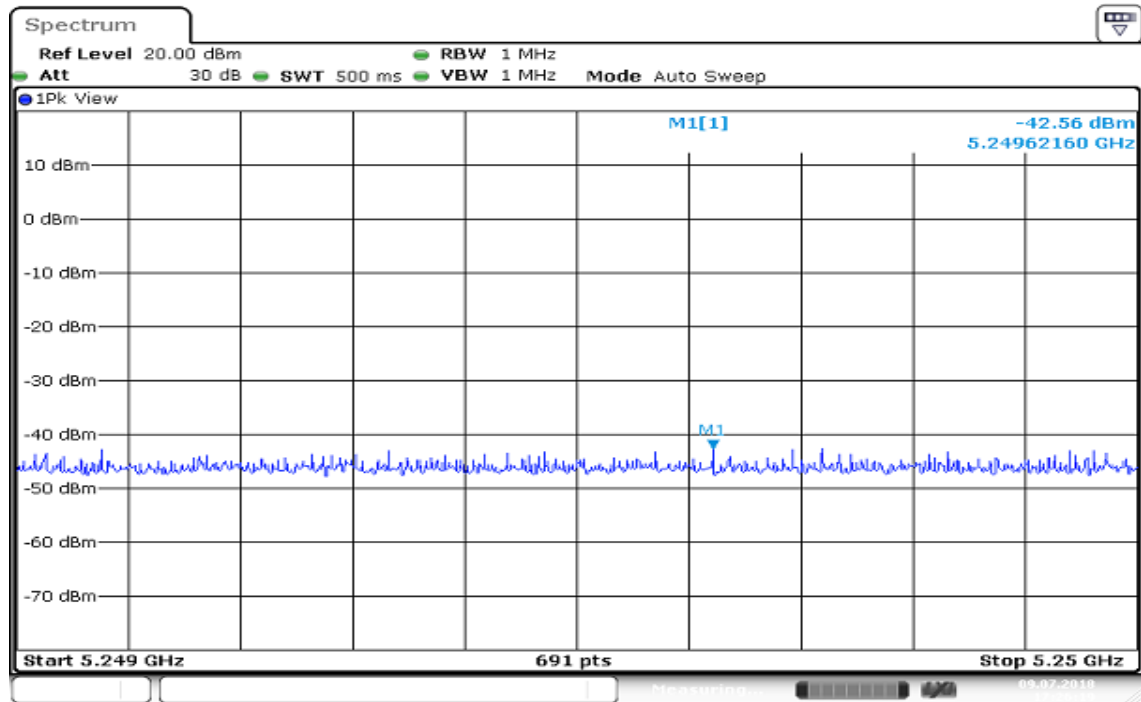


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ANT 1 / CH High(W53)



Date: 9 JUL 2018 17:26:19

Report No.: T180627D12-RJ3

TEST RESULT

5.2758GHz ~ 5.4GHz

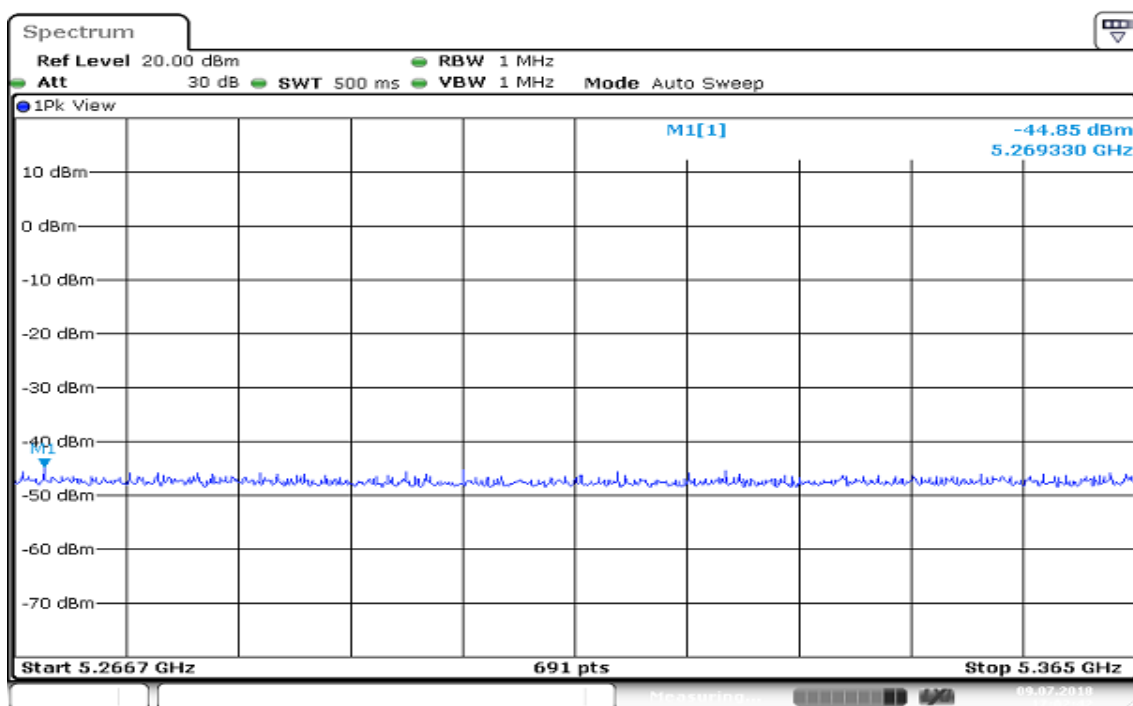
(W52)

(6) 5.2758MHz~5400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5190.0000	5269.3300	-44.85	16.92	1.61065	Normal Voltage
5230.0000	5271.8900	-51.87	16.92	0.31989	

TEST PLOTS

ANT 1 / CH Low(W52)

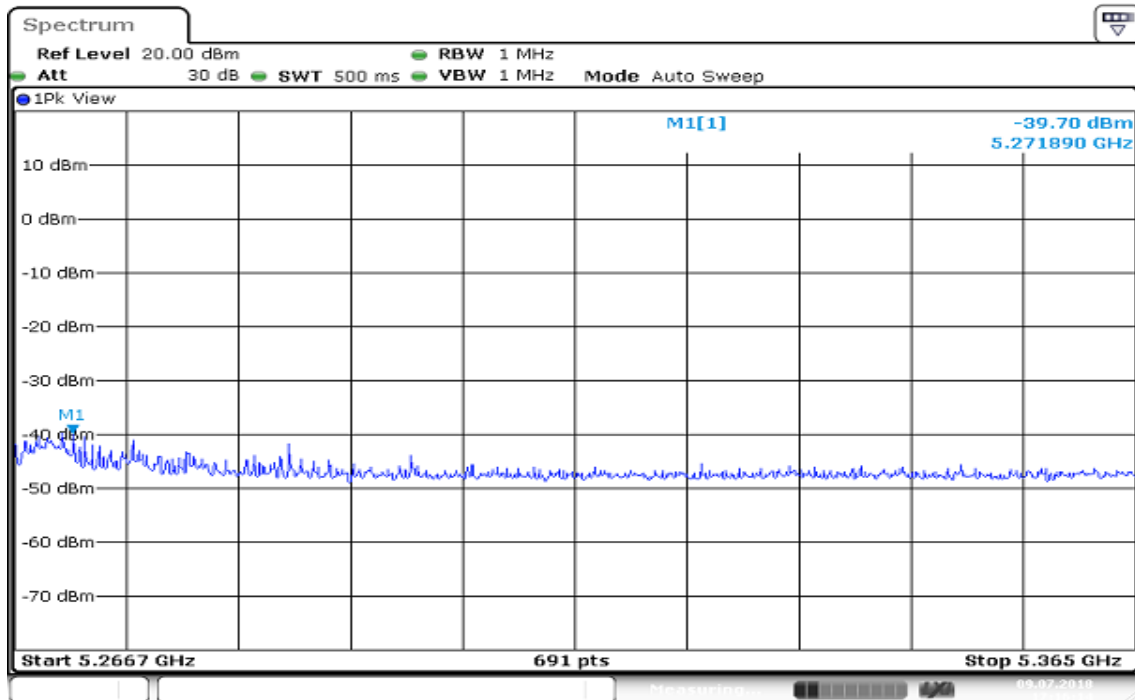


Date: 9 JUL 2018 17:02:43

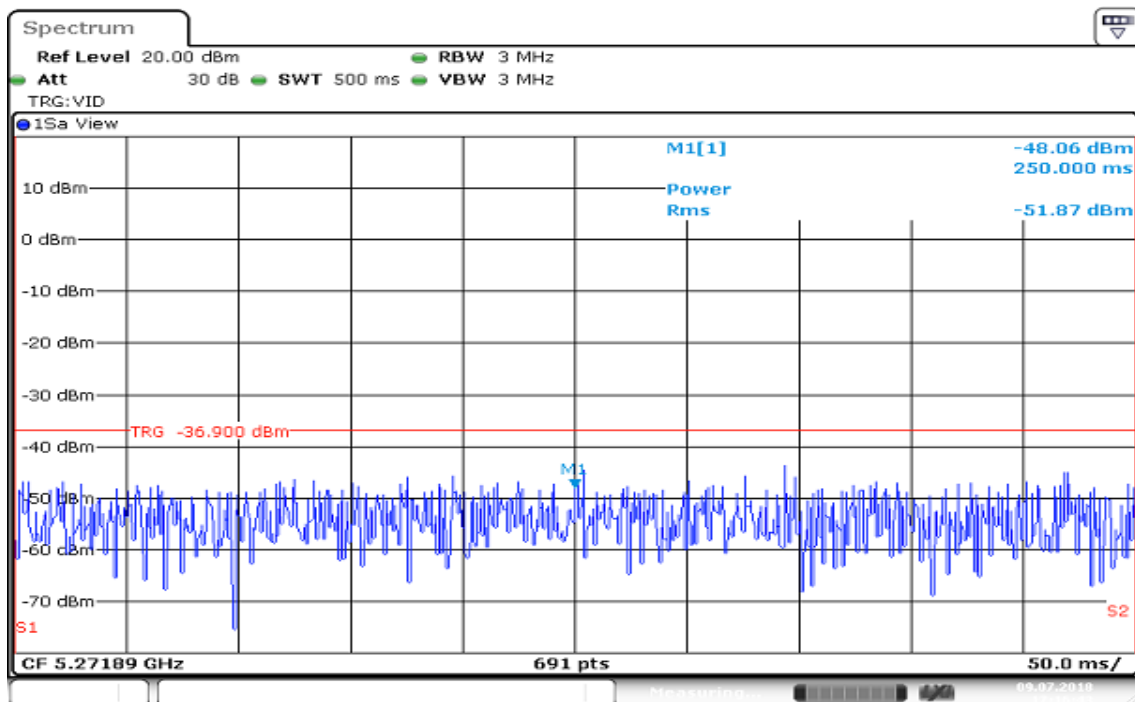
Report No.: T180627D12-RJ3

ANT 1 / CH High(W52)

(Search)



(Detail)





Report No.: T180627D12-RJ3

TEST RESULT

5.35GHz ~ 5.3558GHz

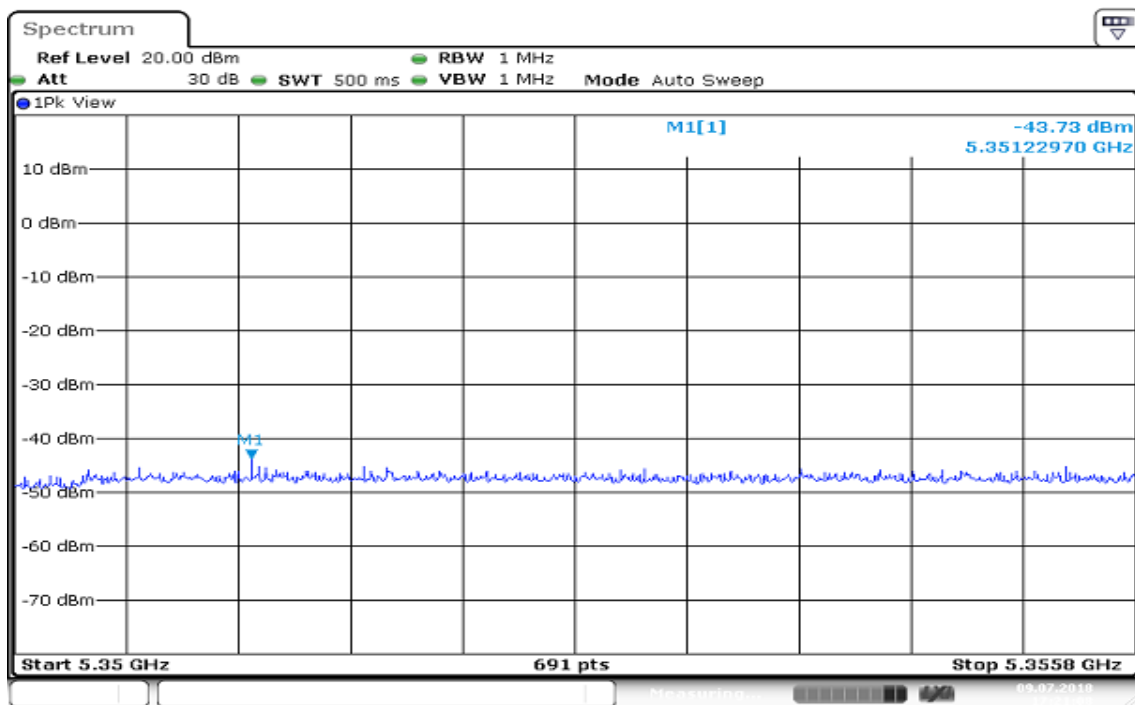
(W53)

(6) 5350MHz~5.3558MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5351.2297	-43.73	16.92	2.08449	Normal Voltage
5310.0000	5350.3819	-37.32	16.92	9.12011	

TEST PLOTS

ANT 1 / CH Low(W53)



Date: 9 JUL 2018 17:21:08

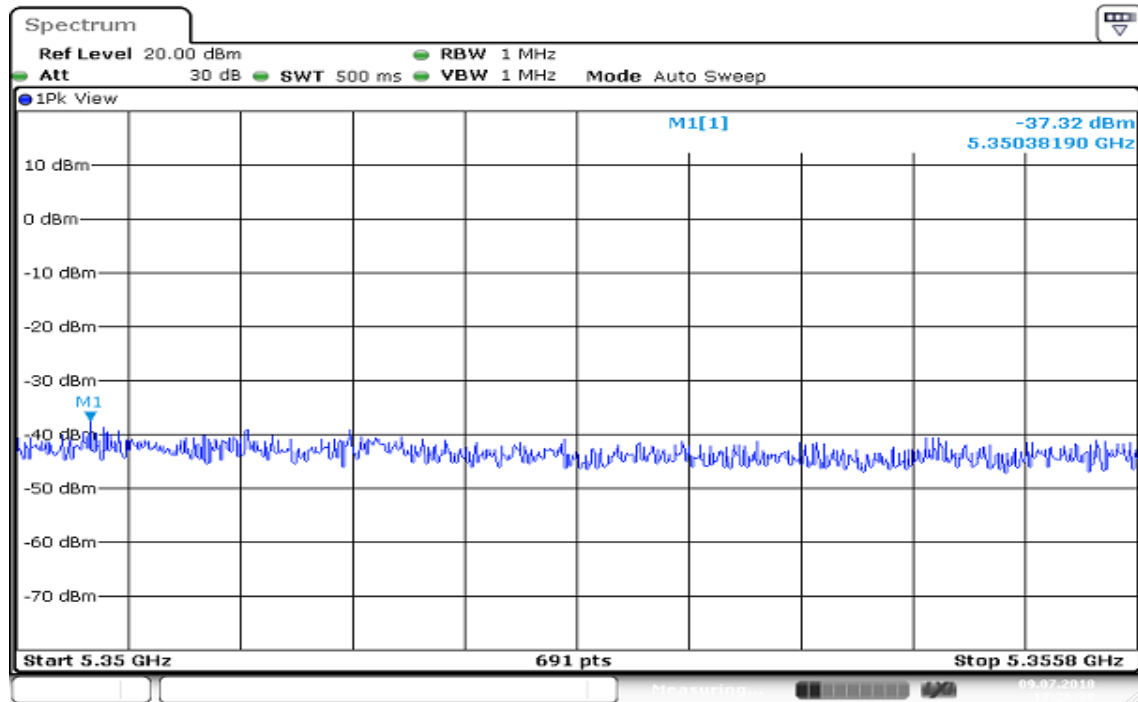


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ANT 1 / CH High(W53)



Date: 9 JUL 2018 17:26:38

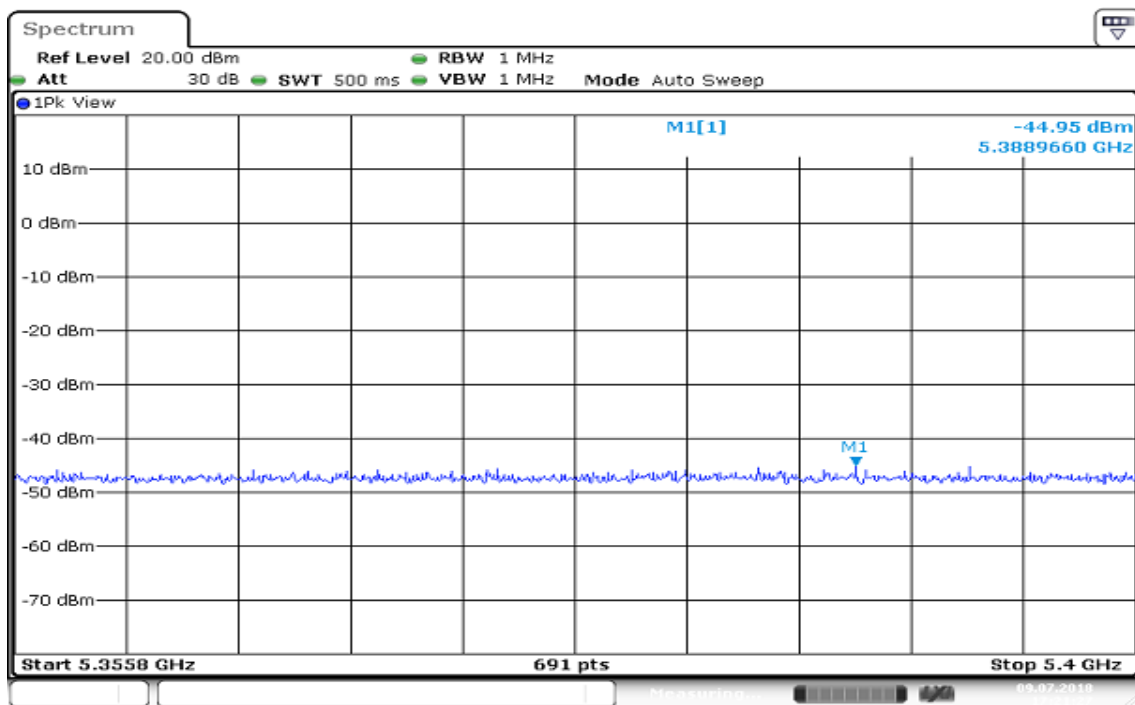


Report No.: T180627D12-RJ3

TEST RESULT**5.3558GHz ~ 5.4GHz****(W53)**

(7) 5.3558MHz~5400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5270.0000	5388.9660	-44.95	16.92	1.57398	Normal Voltage
5310.0000	5385.0000	-45.01	16.92	1.55239	

TEST PLOTS**ANT 1 / CH Low(W53)**

Date: 9 JUL 2018 17:21:28

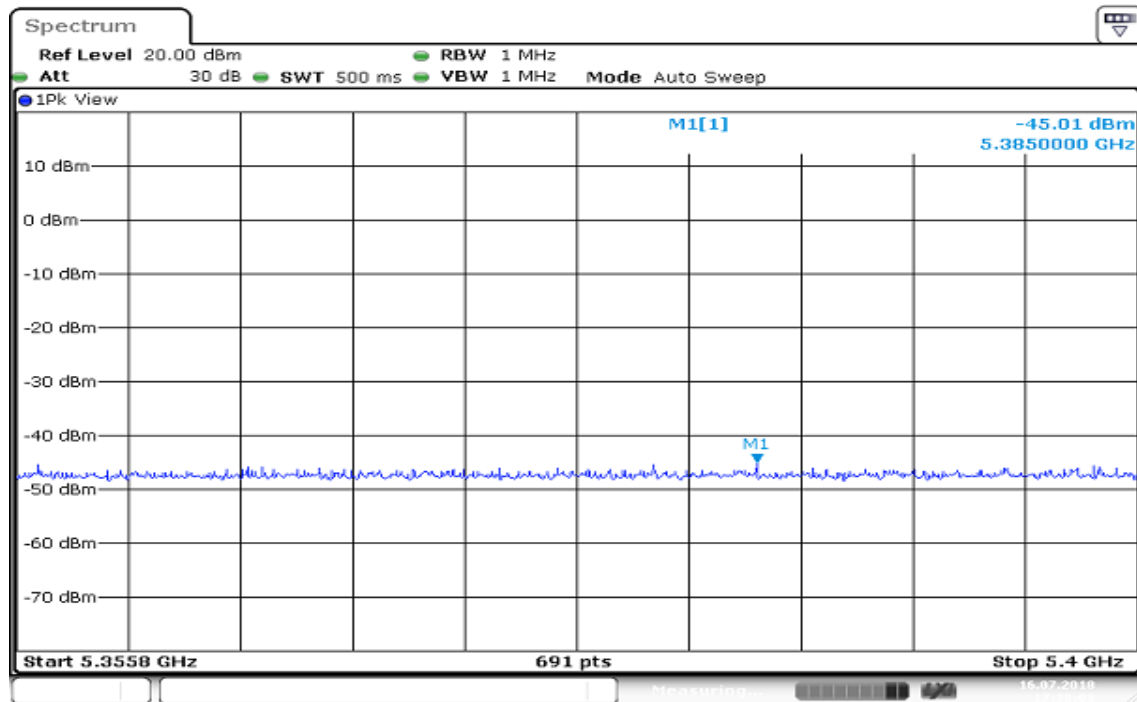


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ANT 1 / CH High(W53)



Date: 16 JUL 2018 17:38:08



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8.7 ADJACENT CHANNEL LEAKAGE POWER

TEST RESULT

(W52&W53)

Test Frequency	MHz	5190	5230	5310	5190	5230	5310	5190	5230	5310		
Adjacent Channel Leakage Power	~40MHz	dB	30.44	28.36	27.52							Limit \geq 25dB (38MHz)
	+40MHz	dB	30.96	28.08	26.11							Limit \geq 25dB (38MHz)
	~80MHz	dB	42.22	40.96	40.36							Limit \geq 40dB (38MHz)
	+80MHz	dB	41.52	41.87	40.46							Limit \geq 40dB (38MHz)

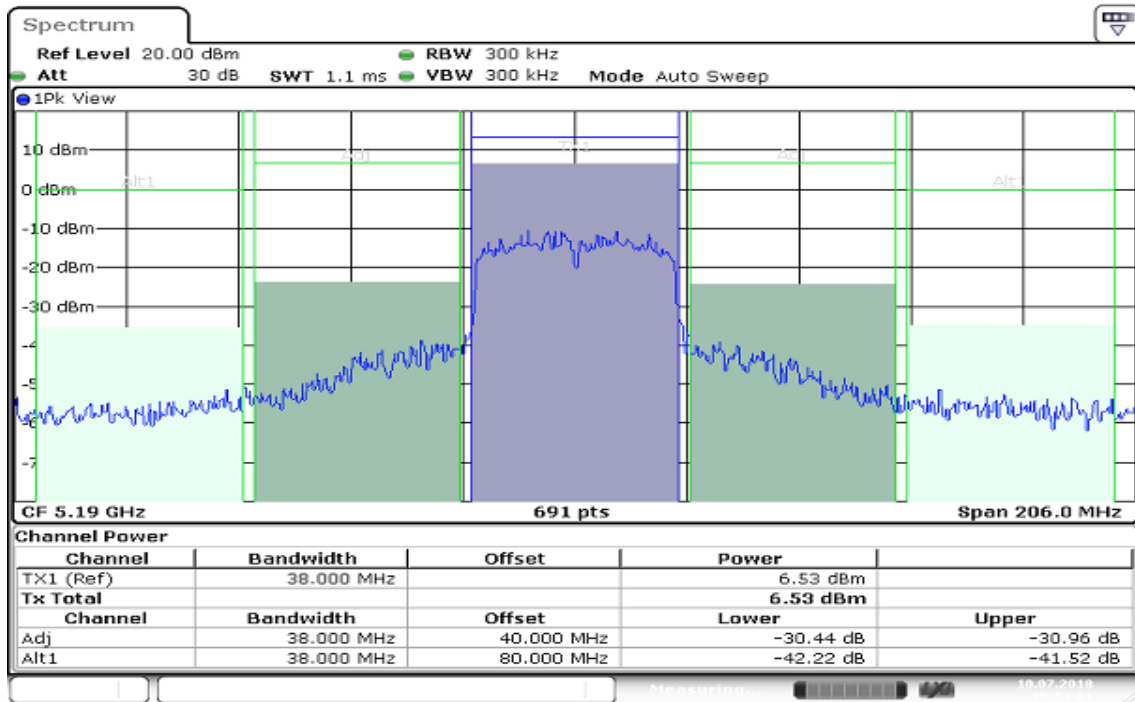
(W56)

Test Frequency	MHz	5510	5590	5670	5510	5590	5670	5510	5590	5670		
Adjacent Channel Leakage Power	~40MHz	dB	31.37510	31.17196	32.96546							Limit \geq 25dB (38MHz)
	+40MHz	dB	26.84129	27.99797	29.48670							Limit \geq 25dB (38MHz)
	~80MHz	dB	41.11490	41.29057	40.93577							Limit \geq 40dB (38MHz)
	+80MHz	dB	40.33356	40.46951	40.89640							Limit \geq 40dB (38MHz)

Report No.: T180627D12-RJ3

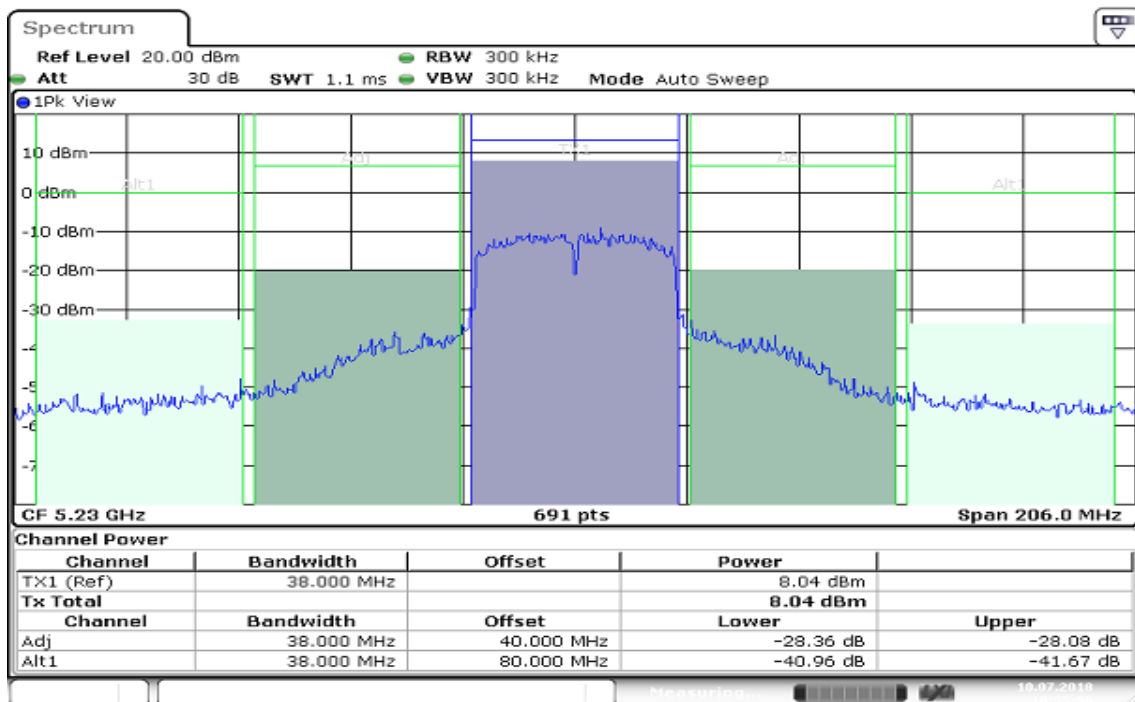
TEST PLOTS

ANT 1 / CH Low(W52&W53)



Date: 10 JUL 2018 10:34:02

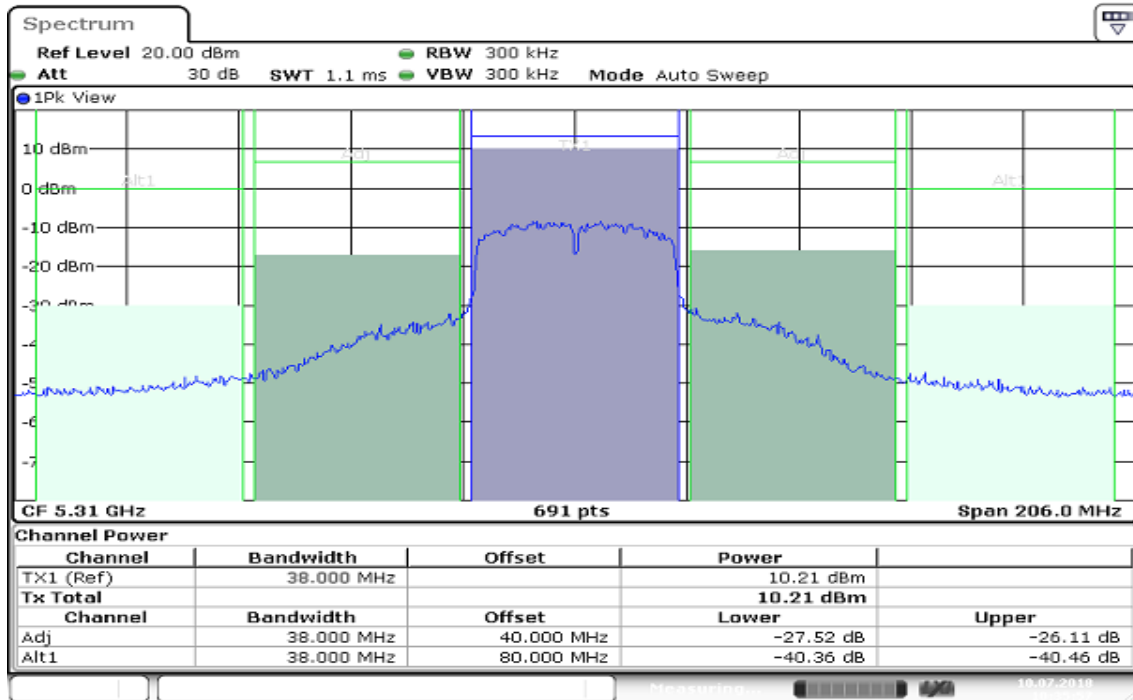
ANT 1 / CH Mid(W52&W53)



Date: 10 JUL 2018 10:35:06

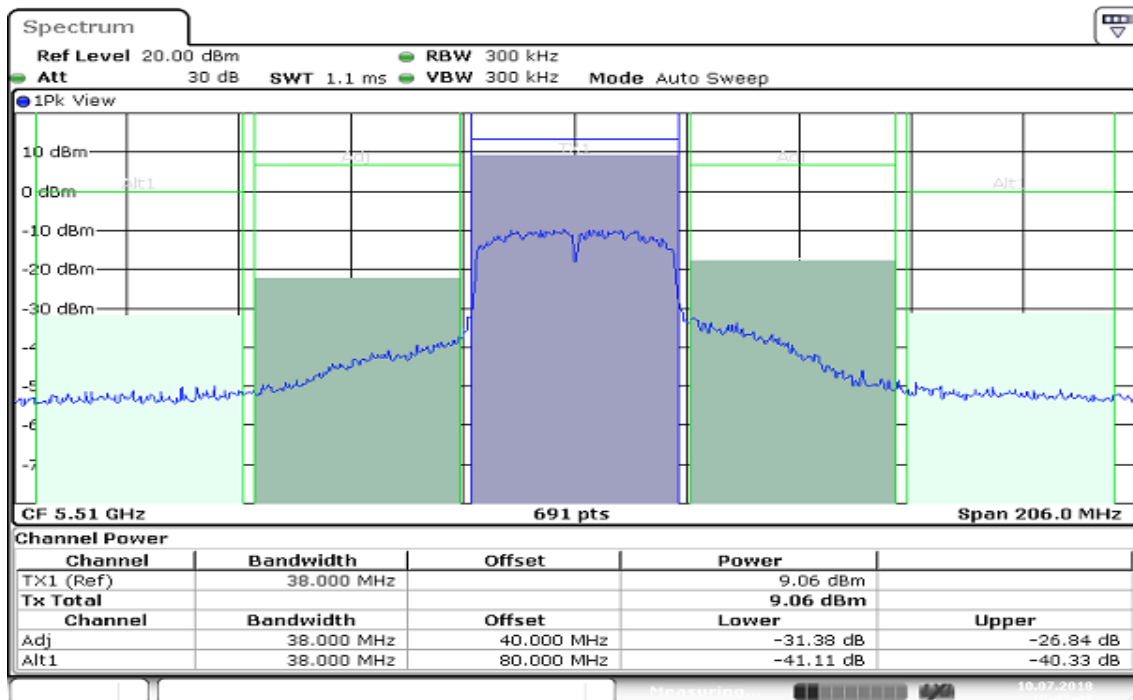
Report No.: T180627D12-RJ3

ANT 1 / CH High(W52&W53)



Date: 10 JUL 2018 10:35:57

ANT 1 / CH Low(W56)

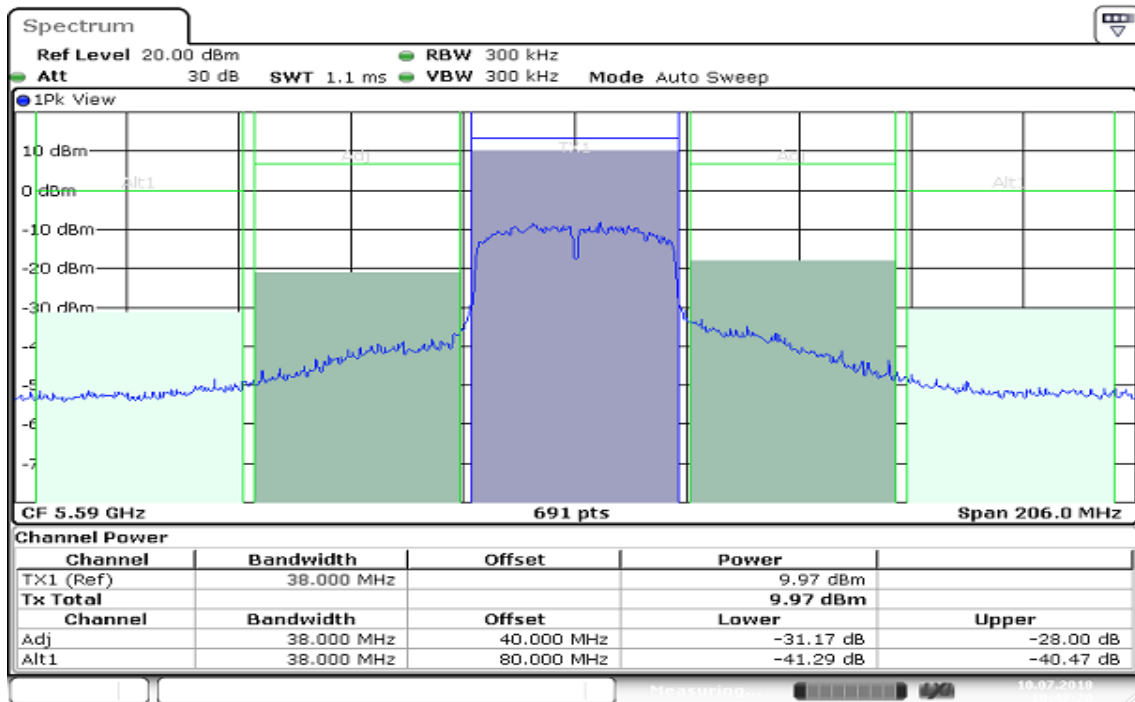


Date: 10 JUL 2018 10:45:48



Report No.: T180627D12-RJ3

ANT 1 / CH Mid(W56)

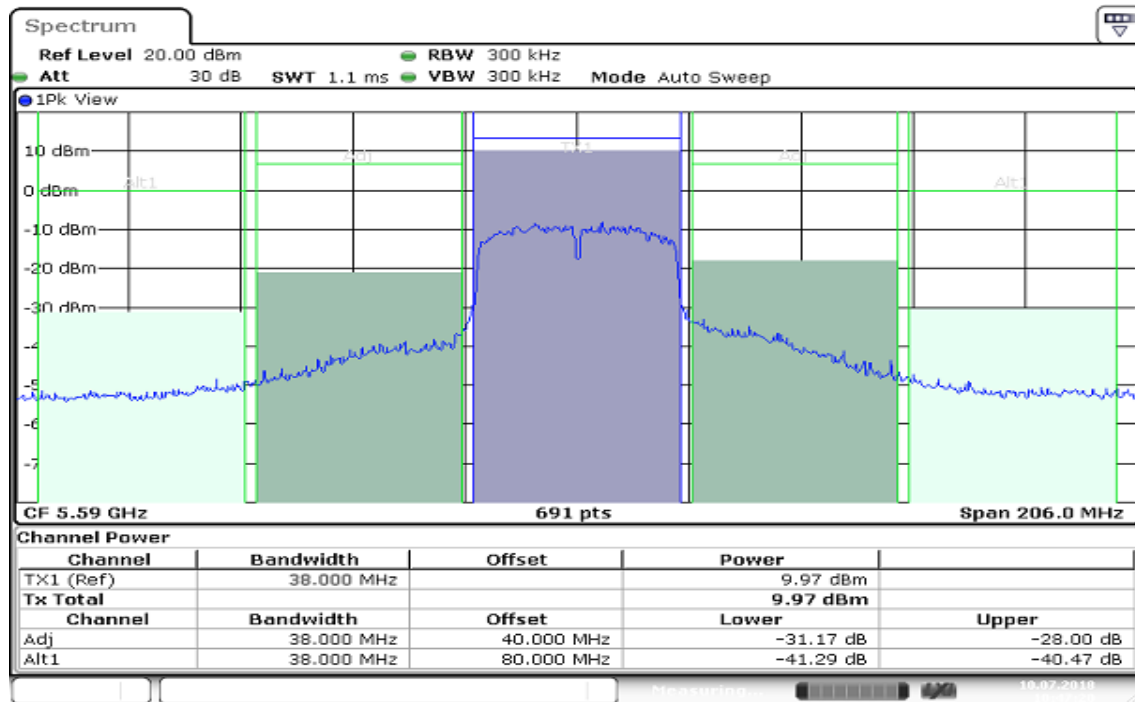


Date: 10 JUL 2018 10:47:20



Report No.: T180627D12-RJ3

ANT 1 / CH Mid(W56)



Date: 10 JUL 2018 10:47:20



Report No.: T180627D12-RJ3

9. TEST RESULT FOR IEEE 802.11AC 80 (W52 & W53 & W56)**9.1 FREQUENCY ERROR****TEST RESULT****(W52 & W53)**

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5210.0000	5210.002170	2170	0.4165	Normal Voltage
5290.0000	5290.002170	2170	0.4102	

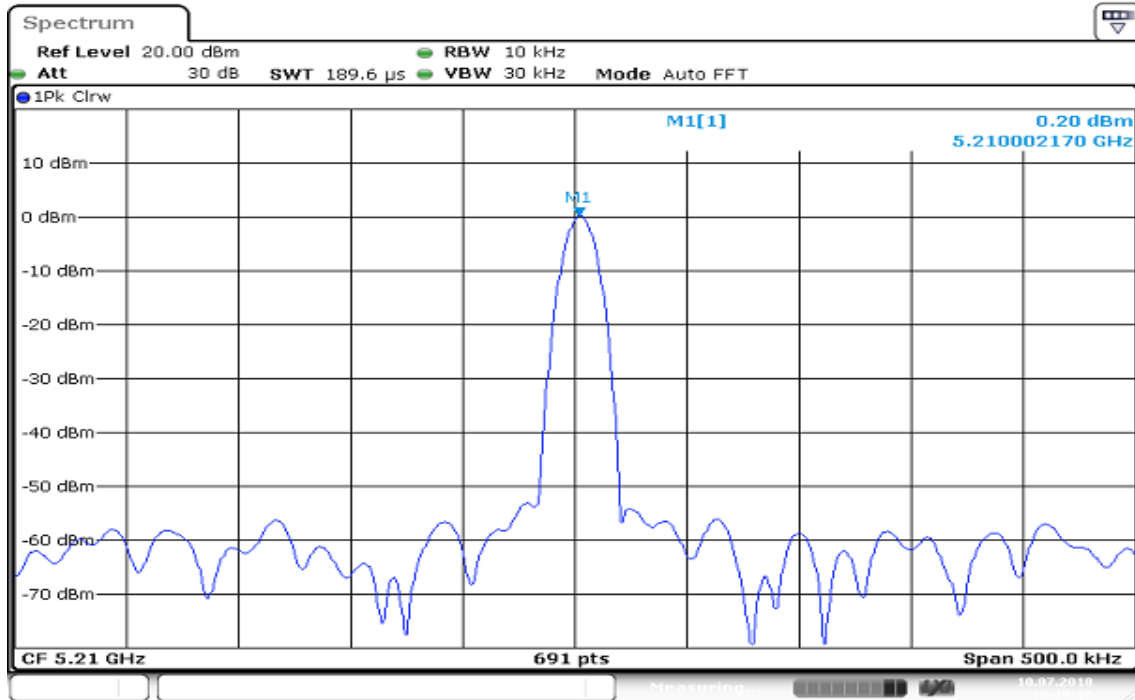
(W56)

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
5530	5530.003620	3620	0.6546	Normal Voltage
5610	5610.002890	2890	0.5152	

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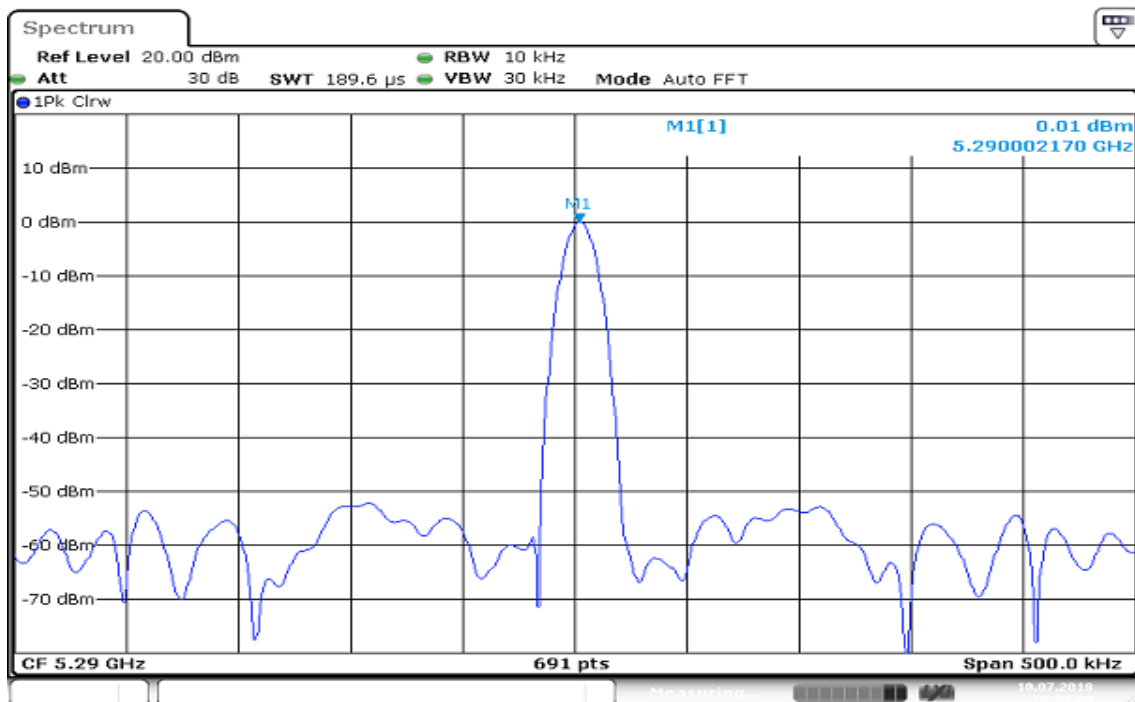
TEST PLOTS

ANT 1 / CH Low(W52 & W53)



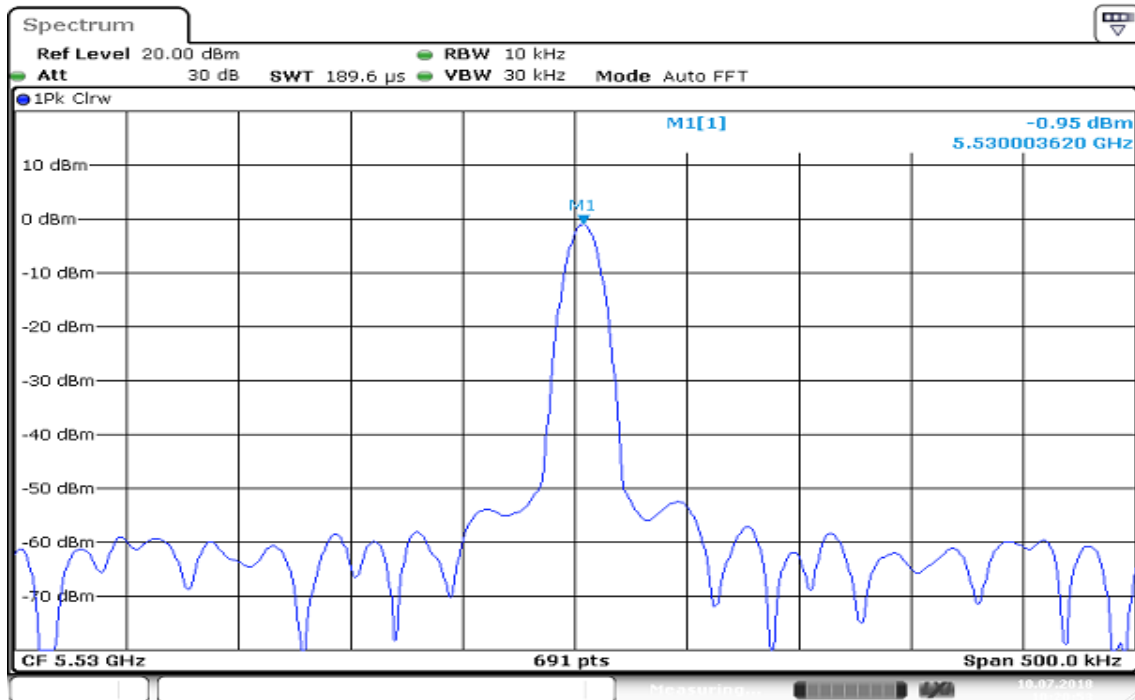
Date: 10 JUL 2018 10:19:10

ANT 1 / CH High(W52 & W53)



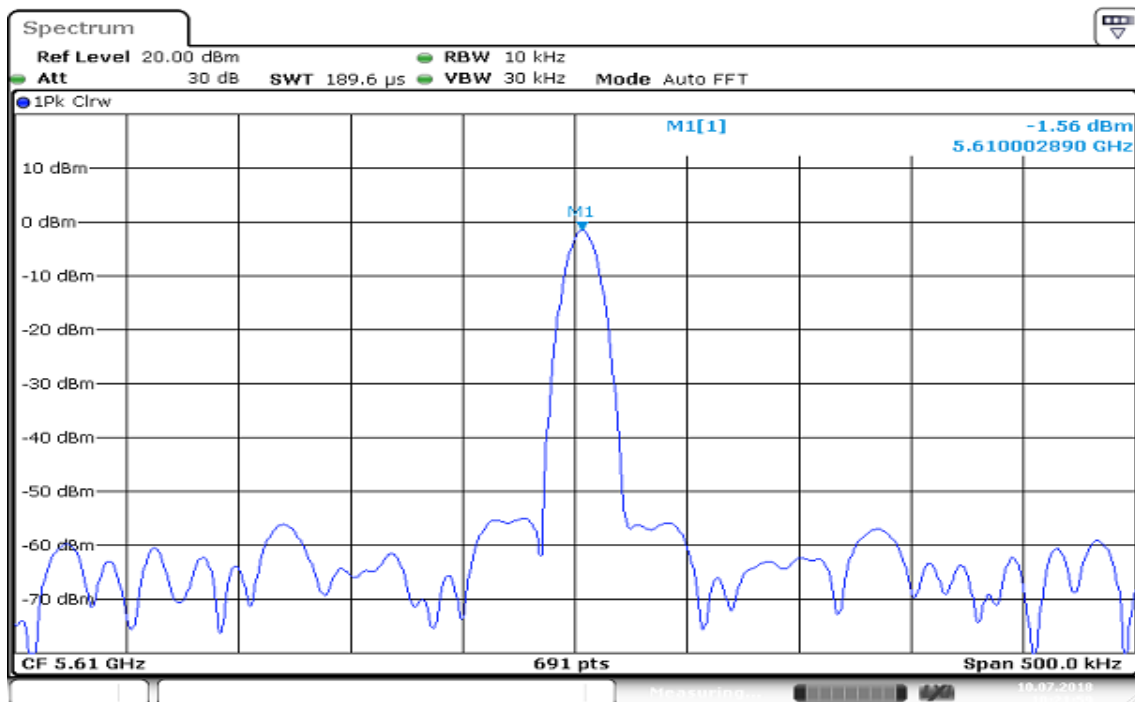
Date: 10 JUL 2018 10:20:00

ANT 1 / CH Low(W56)



Date: 10 JUL 2018 10:20:54

ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:21:59



Report No.: T180627D12-RJ3

9.2 ANTENNA POWER

TEST RESULT

(W52 & W53)

Antenna 1 6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5210.0000	-20.87	10.92	-9.95	0.10116	-3.95	0.40272	Normal Voltage
5290.0000	-21.61	10.92	-10.69	0.08531	-4.69	0.33963	

(W56)

Antenna 1 6 dBi

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			(d Bm)	(mW/MHz)	(d Bm/MHz)	(mW/MHz)	
5530	-21.38	10.92	-10.46	0.08995	-4.46	0.35810	Normal Voltage
5610	-22.49	10.92	-11.57	0.06966	-5.57	0.27733	

Report No.: T180627D12-RJ3

9.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz ~ 1GHz

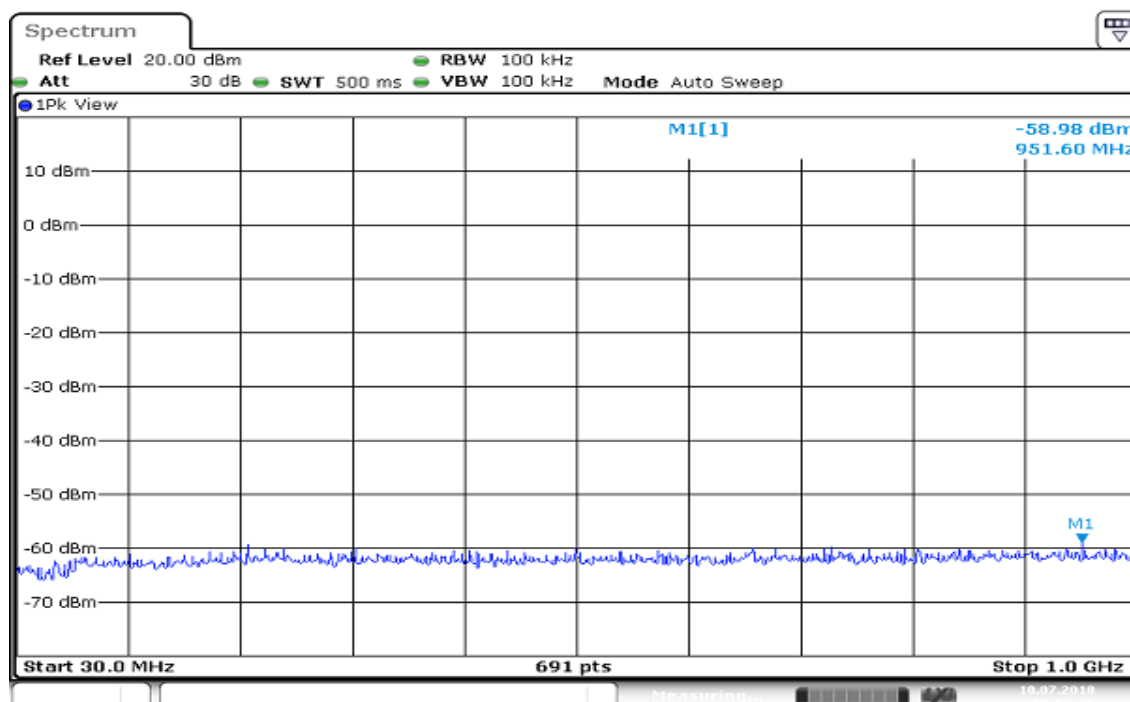
(W52 & W53)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210.0000	951.6000	-58.98	10.92	0.01563	Normal Voltage
5290.0000	917.9000	-58.92	10.92	0.01585	

TEST PLOTS

ANT 1 / CH Low(W52)



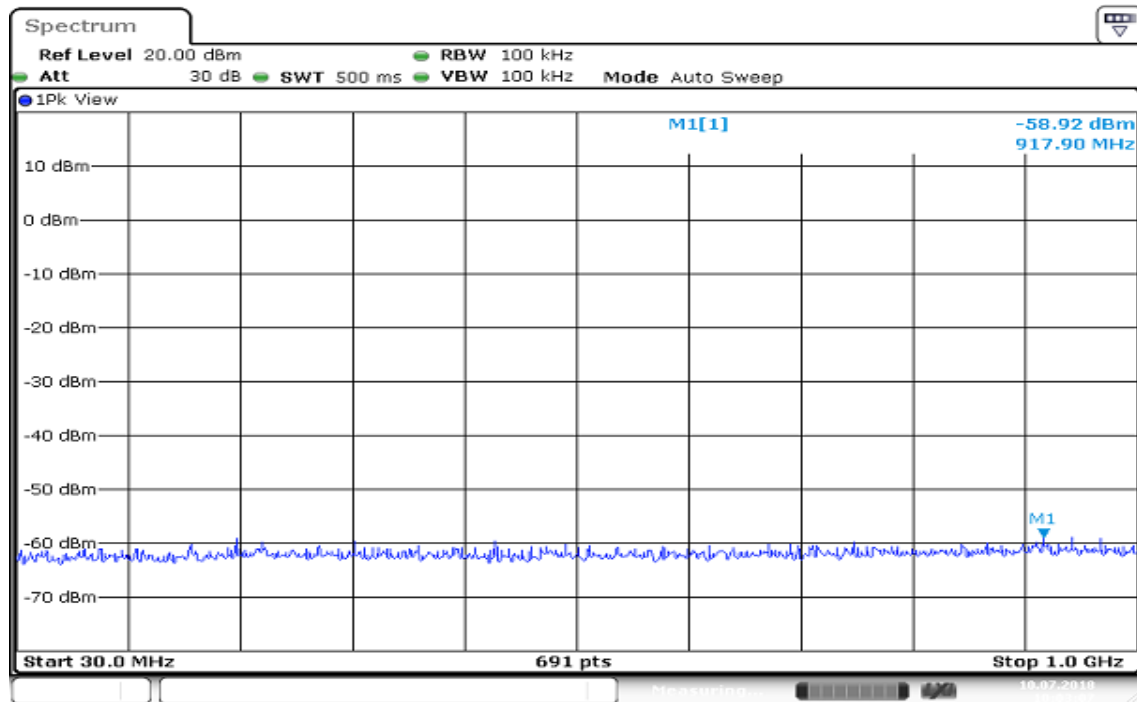


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ANT 1 / CH Low(W53)



Date: 10 JUL 2018 10:03:07

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TEST RESULT

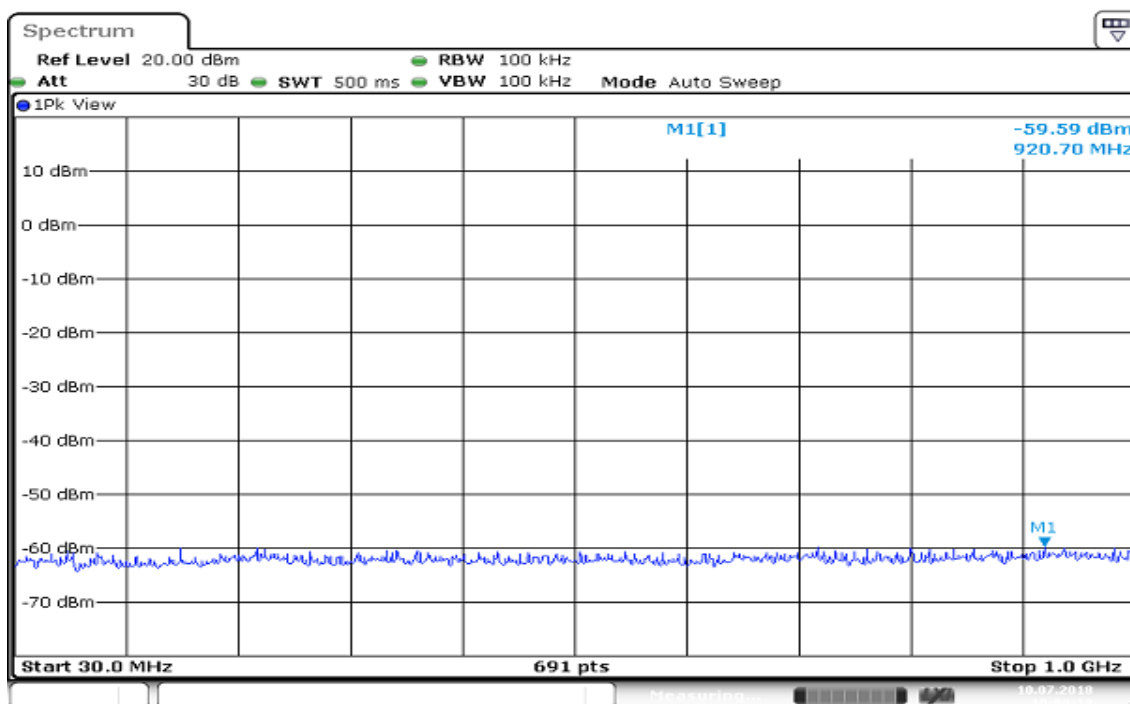
30MHz ~ 1GHz

(W56)

(1) 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530	920.7000	-59.59	10.92	0.01358	Normal Voltage
5610	564.1000	-59.34	10.92	0.01439	

ANT 1 / CH Low(W56)



Date: 10 JUL 2018 10:09:18

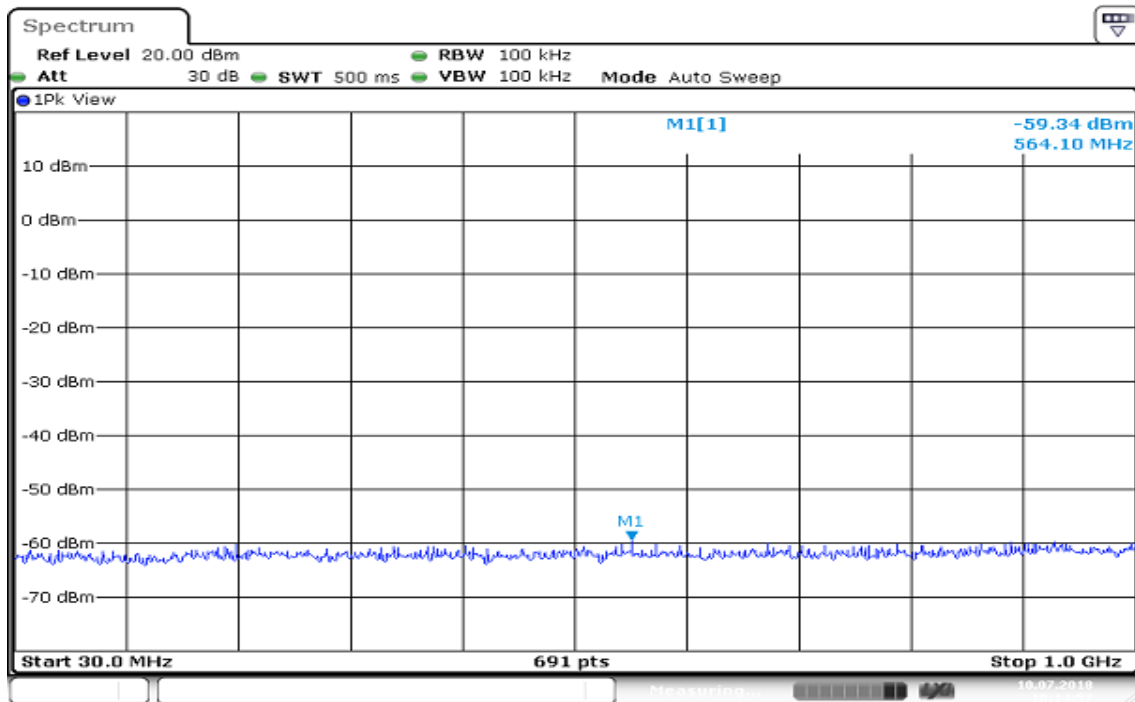


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:14:58



Report No.: T180627D12-RJ3

TEST RESULT

1GHz ~ 5.02GHz

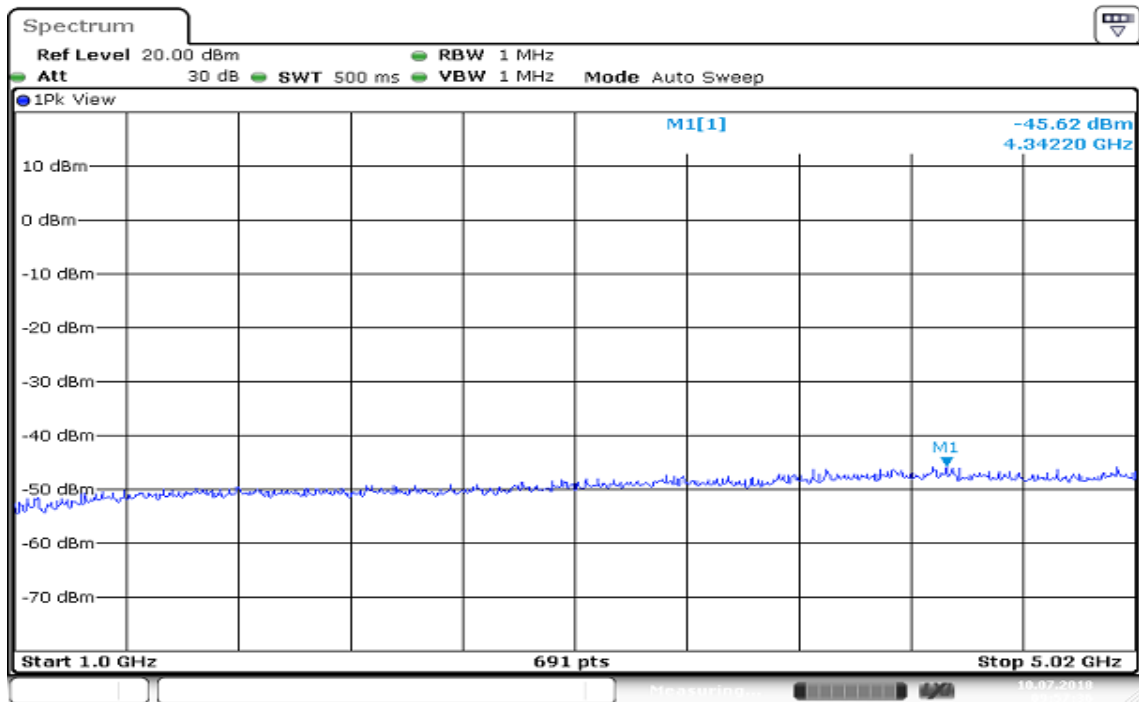
(W52 & W53)

(2) 1000MHz~less than 5020MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210.0000	4342.2000	-45.62	10.92	0.33884	Normal Voltage
5290.0000	4976.4000	-45.78	10.92	0.32659	

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 10 JUL 2018 09:57:36

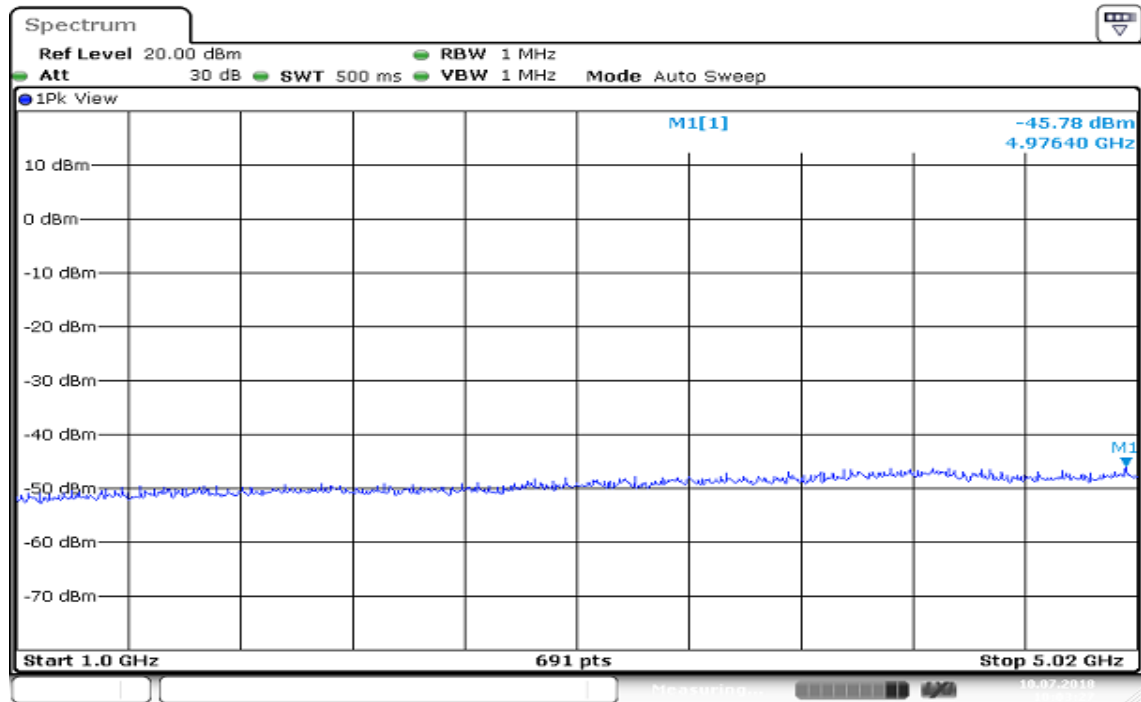


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ANT 1 / CH High(W53)



Date: 10 JUL 2018 10:03:27

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TEST RESULT

1GHz ~ 5.34GHz

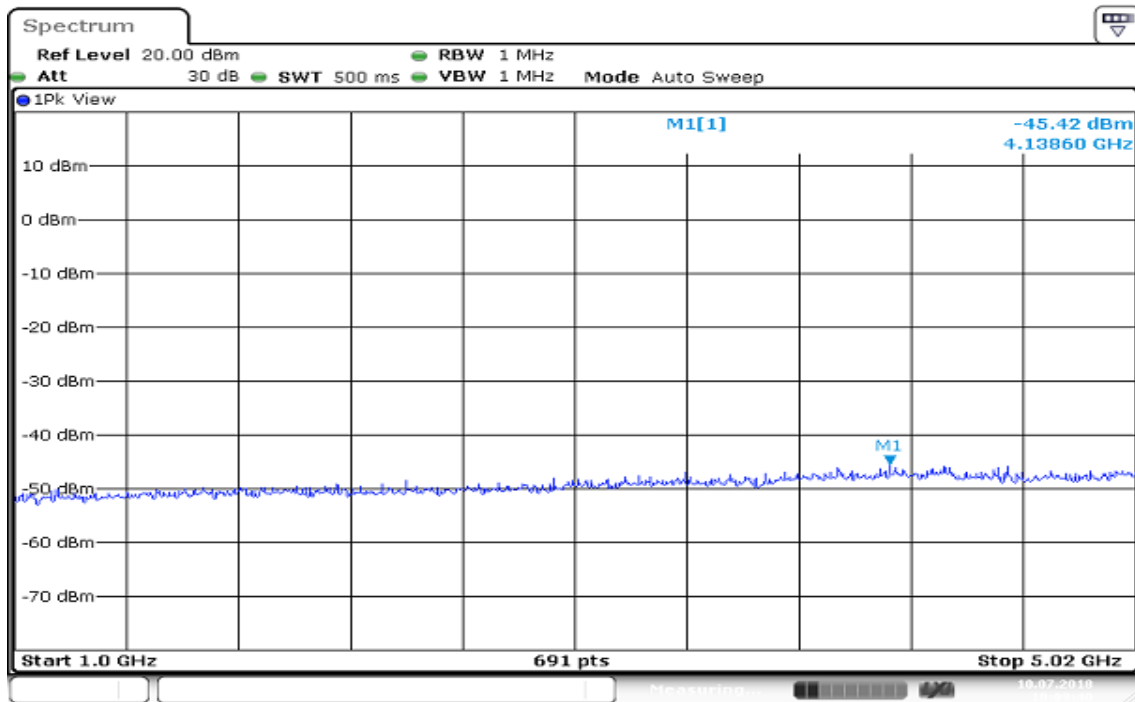
(W56)

(2) 1000MHz~less than 5340MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530	4138.6000	-45.42	10.92	0.35481	Normal Voltage
5610	4260.8000	-45.42	10.92	0.35481	

TEST PLOTS

ANT 1 / CH Low(W56)



Date: 10 JUL 2018 10:09:41

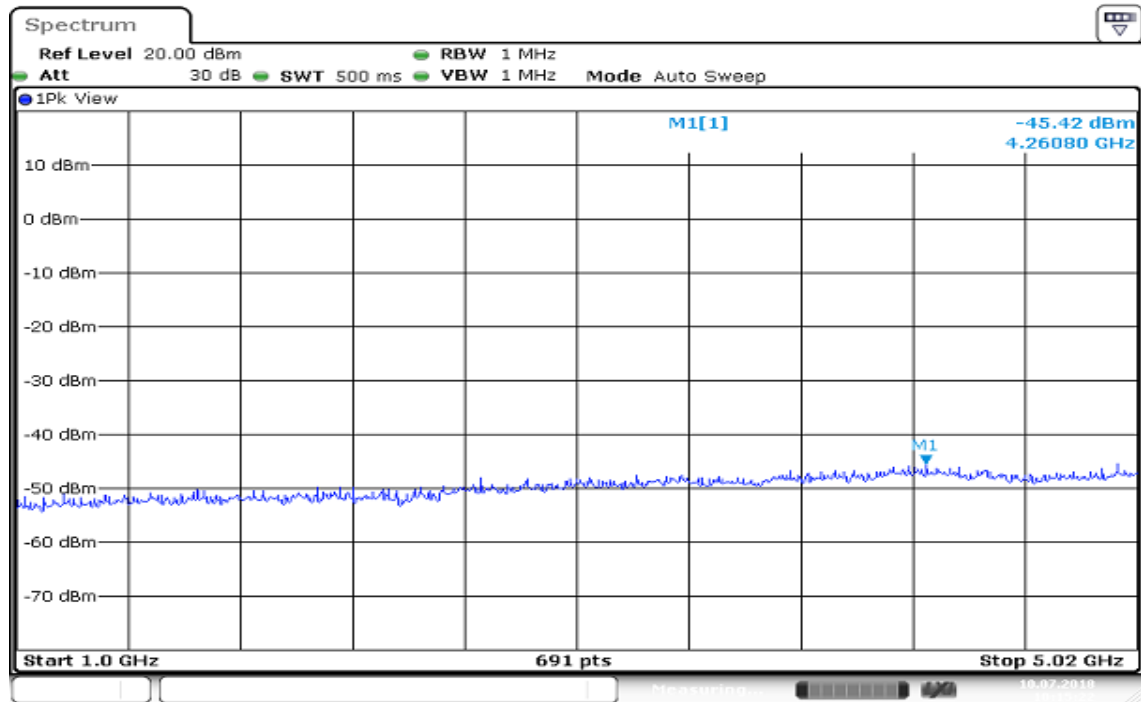


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:15:22

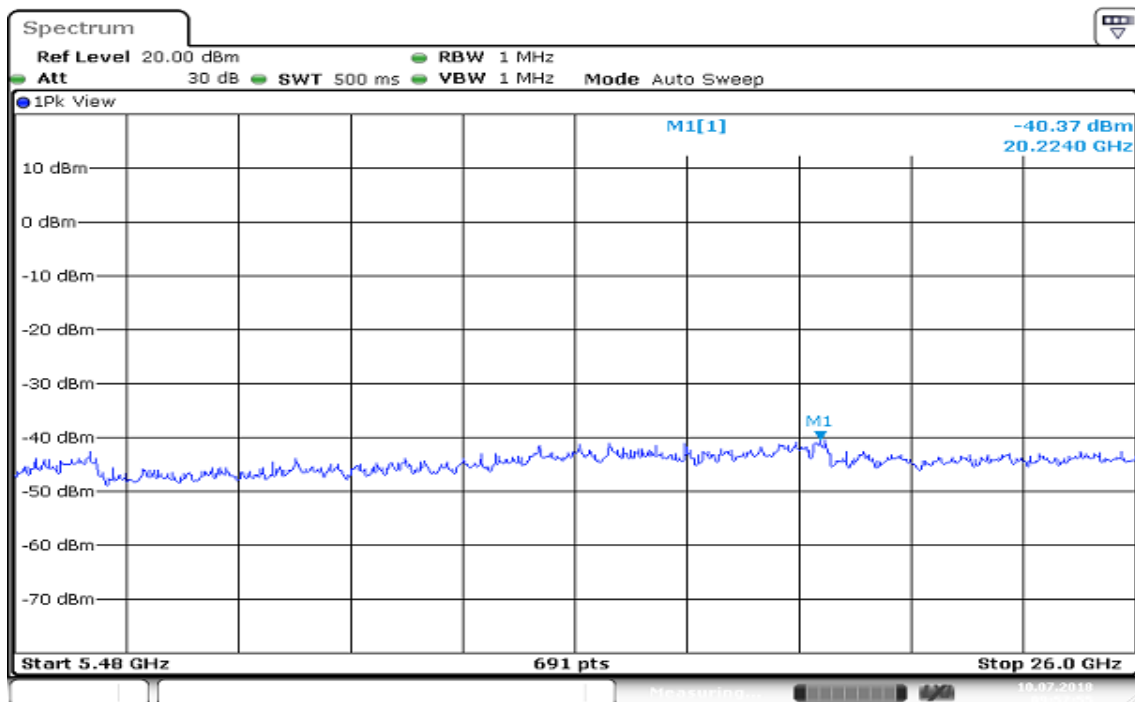


Report No.: T180627D12-RJ3

TEST RESULT**5.48GHz ~ 26GHz****(W52 & W53)**

(3) 5480MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5210.0000	20224.0000	-40.37	10.92	1.13501	Normal Voltage
5290.0000	20135.0000	-39.94	10.92	1.25314	

TEST PLOTS**ANT 1 / CH Low(W52)**

Date: 10 JUL 2018 09:57:56

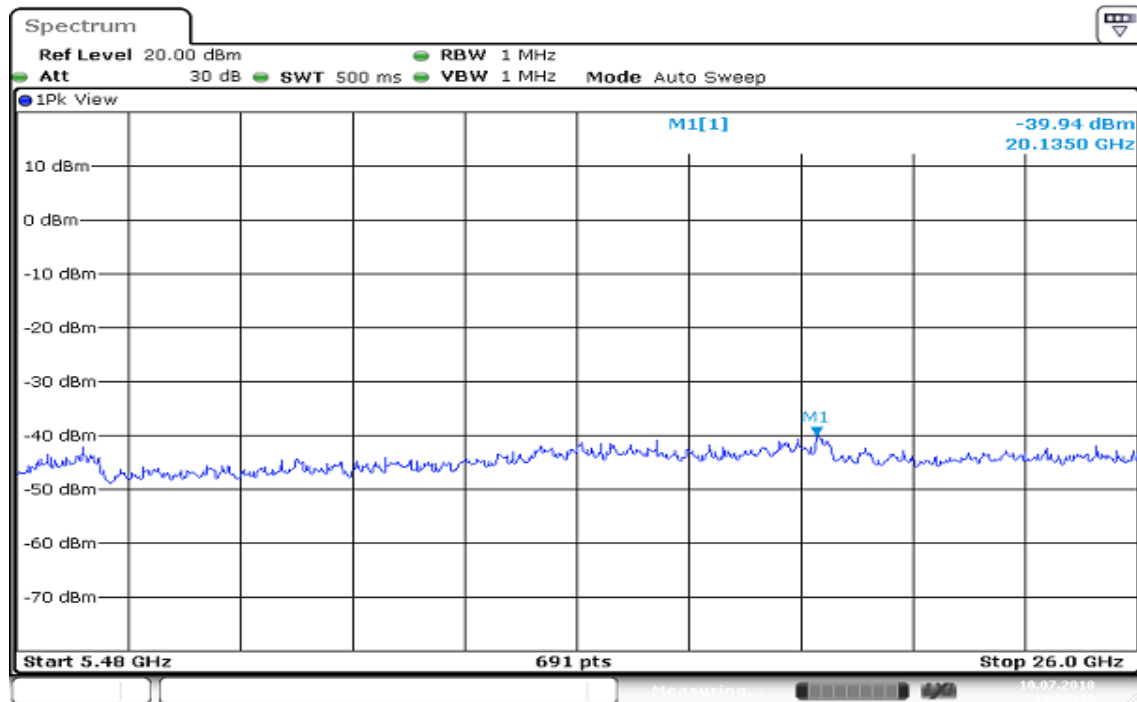


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ANT 1 / CH High (W53)



Date: 10 JUL 2018 10:03:46

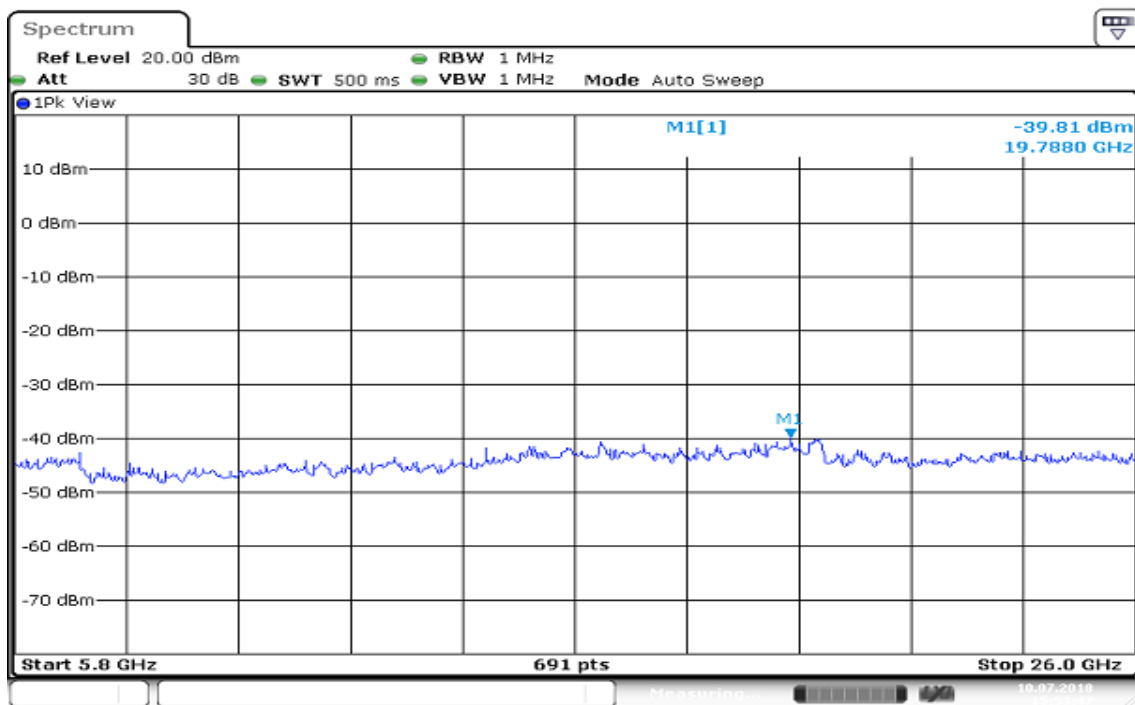


Report No.: T180627D12-RJ3

TEST RESULT**5.8GHz ~ 26GHz****(W56)**

(3) 5800MHz~less than 26000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530	5525.0000	-39.81	10.92	1.29122	Normal Voltage
5610	5584.0000	-40.10	10.92	1.20781	

TEST PLOTS**ANT 1 / CH Low(W56)**

Date: 10 JUL 2018 15:53:47

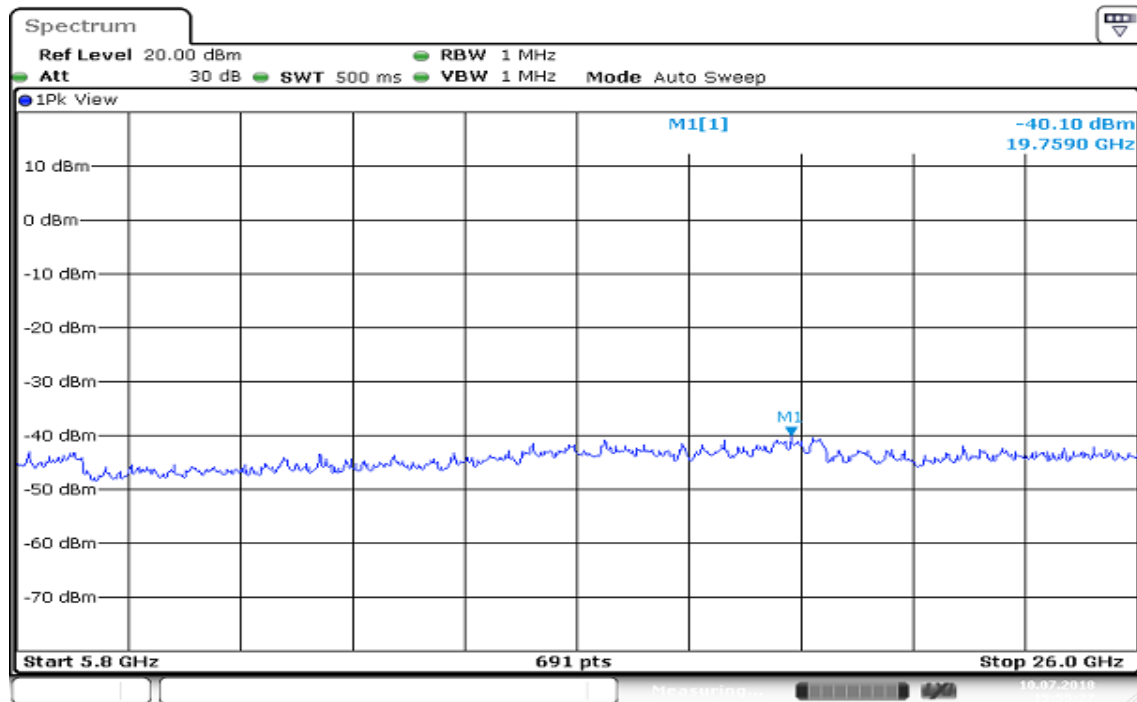


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ANT 1 / CH High (W56)



Date: 10 JUL 2018 15:55:27

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9.4 OCCUPIED BANDWIDTH (99%)

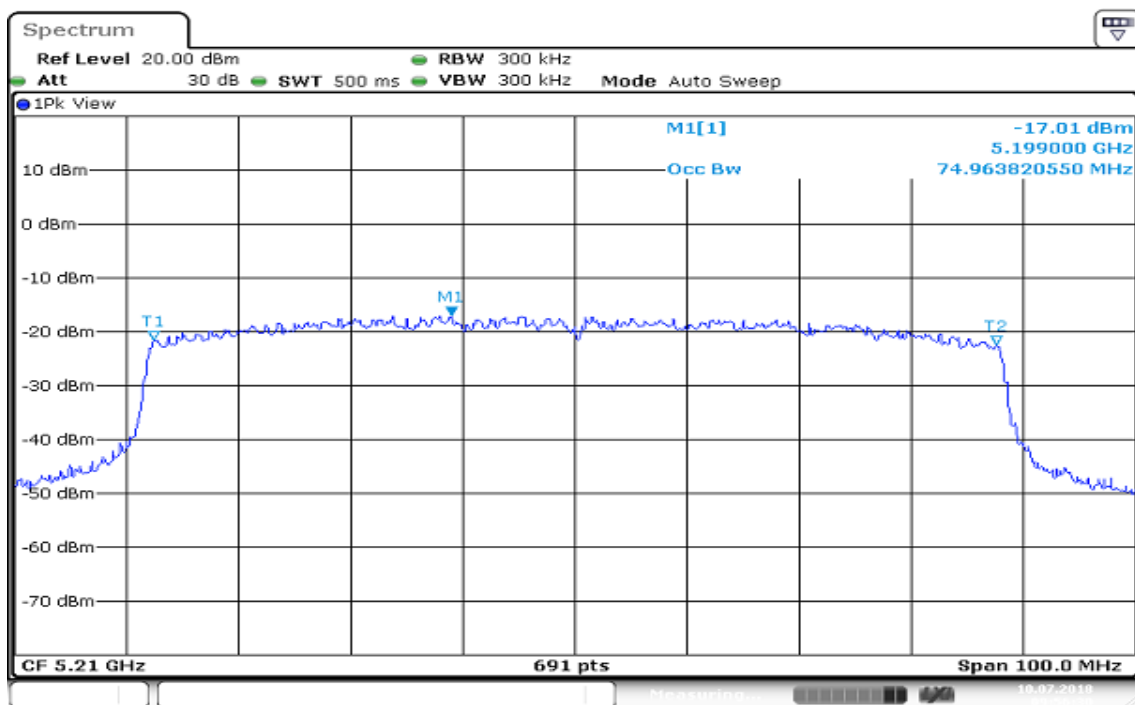
TEST RESULT

(W52 & W53)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5210.0000	5210.00	74.96	Normal Voltage
5290.0000	5290.00	74.96	

TEST PLOTS

ANT 1 / CH Low(W52)

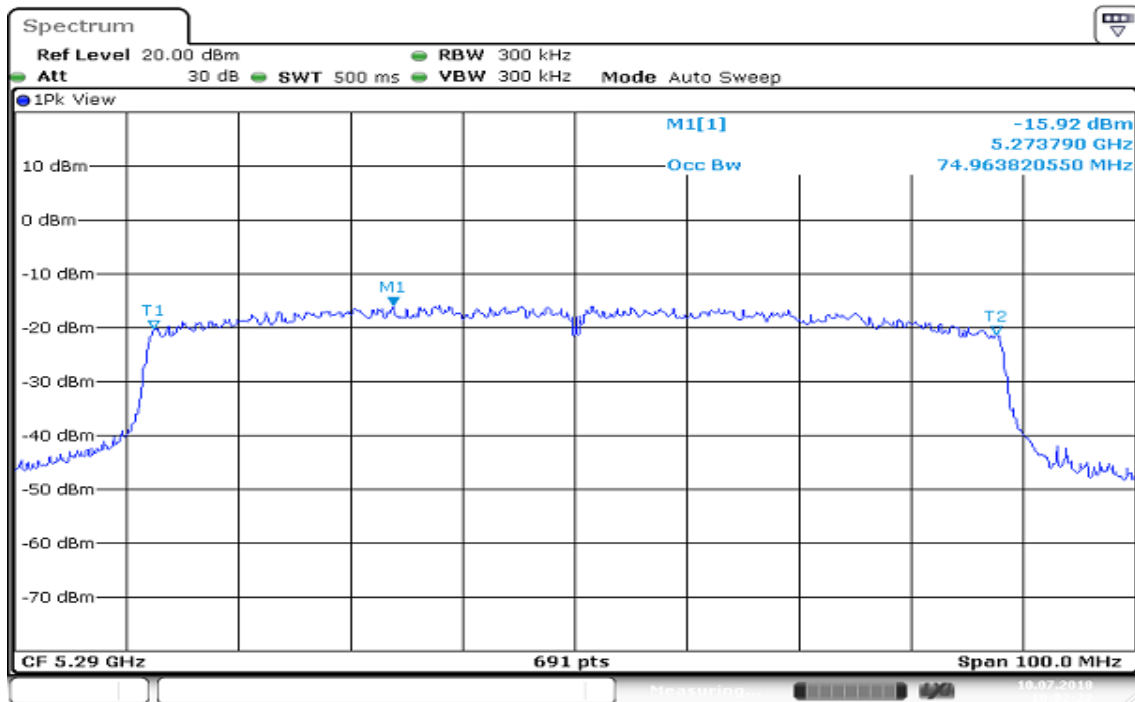


Date: 10 JUL 2018 09:56:21



Report No.: T180627D12-RJ3

ANT 1 / CH High(W53)



Date: 10 JUL 2018 10:02:22

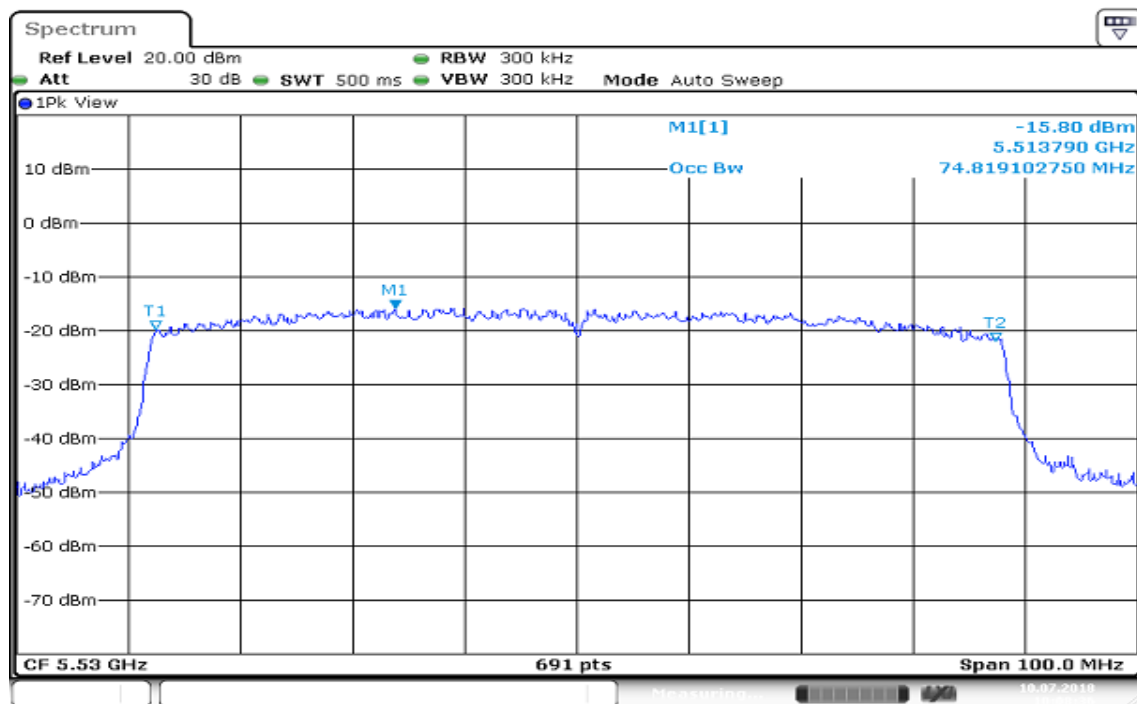
TEST RESULT

(W56)

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
5530.0000	5530.00	74.81	Normal Voltage
5610.0000	5610.00	74.81	

TEST PLOTS

ANT 1 / CH Low(W56)

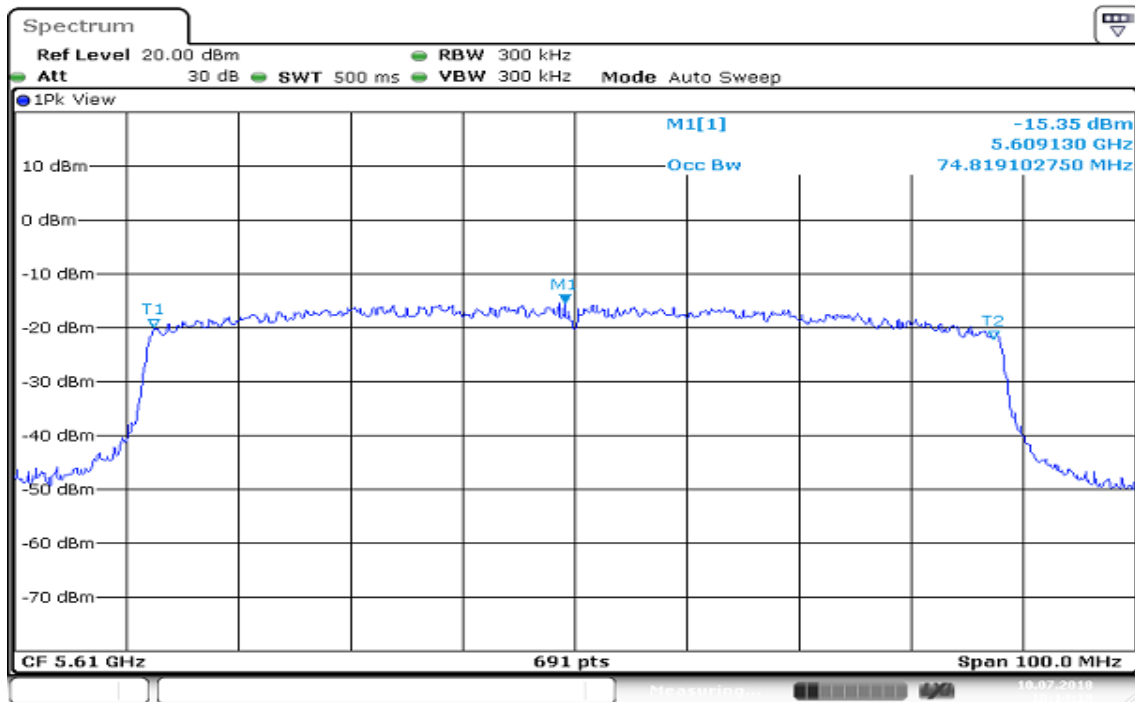


Date: 10 JUL 2018 10:08:27



Report No.: T180627D12-RJ3

ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:14:18

Report No.: T180627D12-RJ3

9.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

30MHz ~ 1GHz

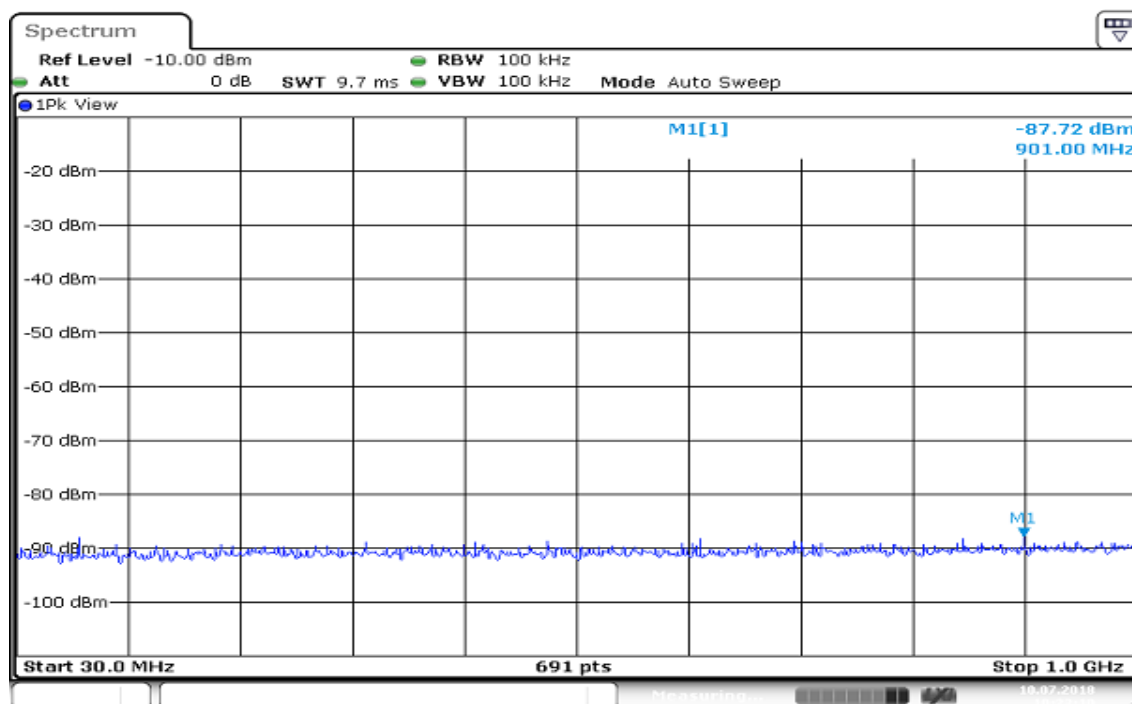
(W52 & W53)

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5210 MHz	901.0000	-87.72	10.92	0.0209	Normal Voltage
5290 MHz	637.1000	-88.28	10.92	0.0184	

TEST PLOTS

ANT 1 / CH Low(W52)

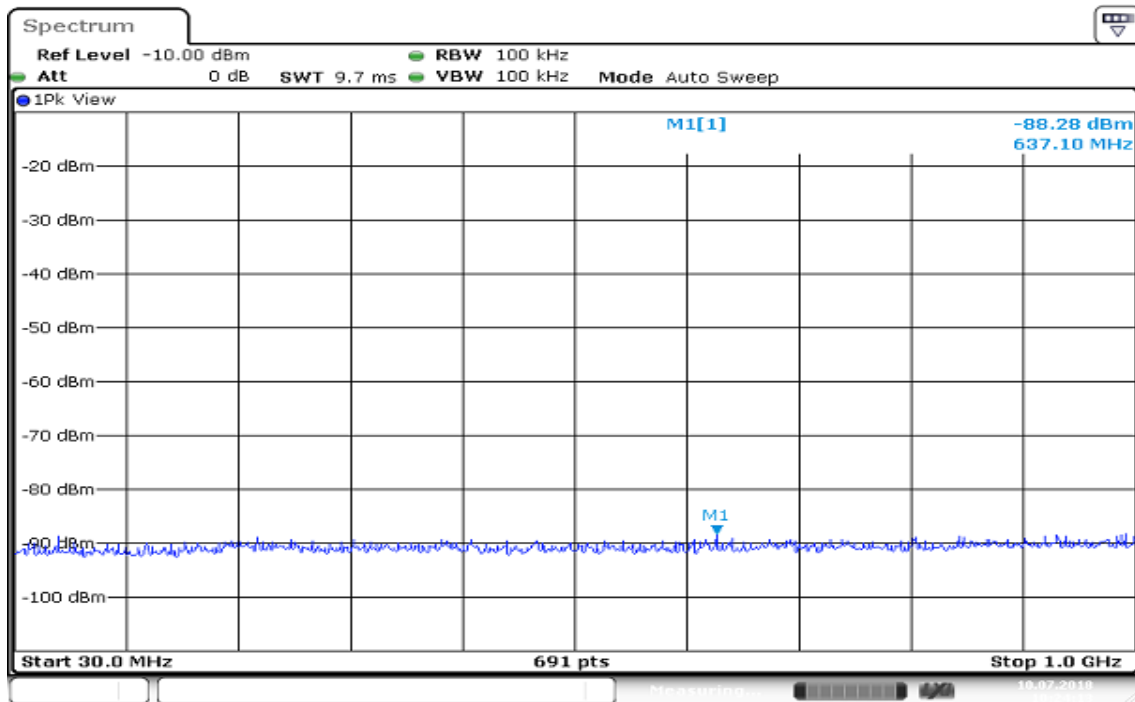


Date: 10 JUL 2018 10:23:11



Report No.: T180627D12-RJ3

ANT 1 / CH Low(W53)



Date: 10 JUL 2018 10:24:13



Report No.: T180627D12-RJ3

TEST RESULT

30MHz ~ 1GHz

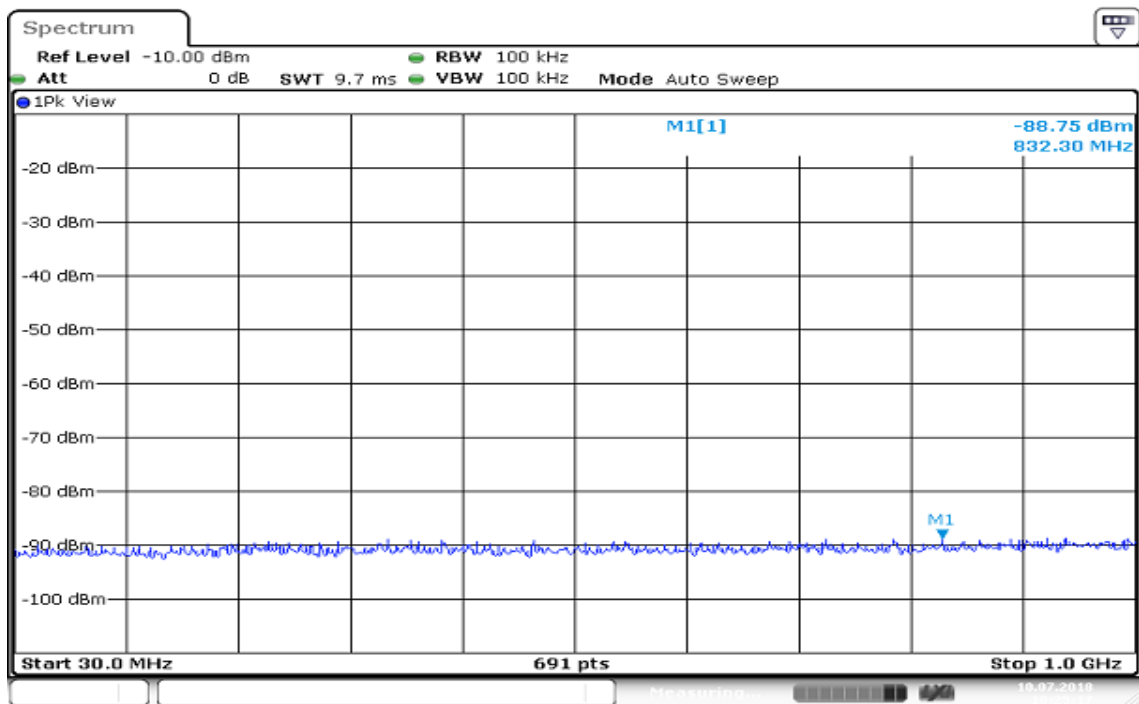
(W56)

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5530 MHz	832.3000	-88.75	10.92	0.0165	Normal Voltage
5610 MHz	894.0000	-88.11	10.92	0.0191	

TEST PLOTS

ANT 1 / CH Low(W56)

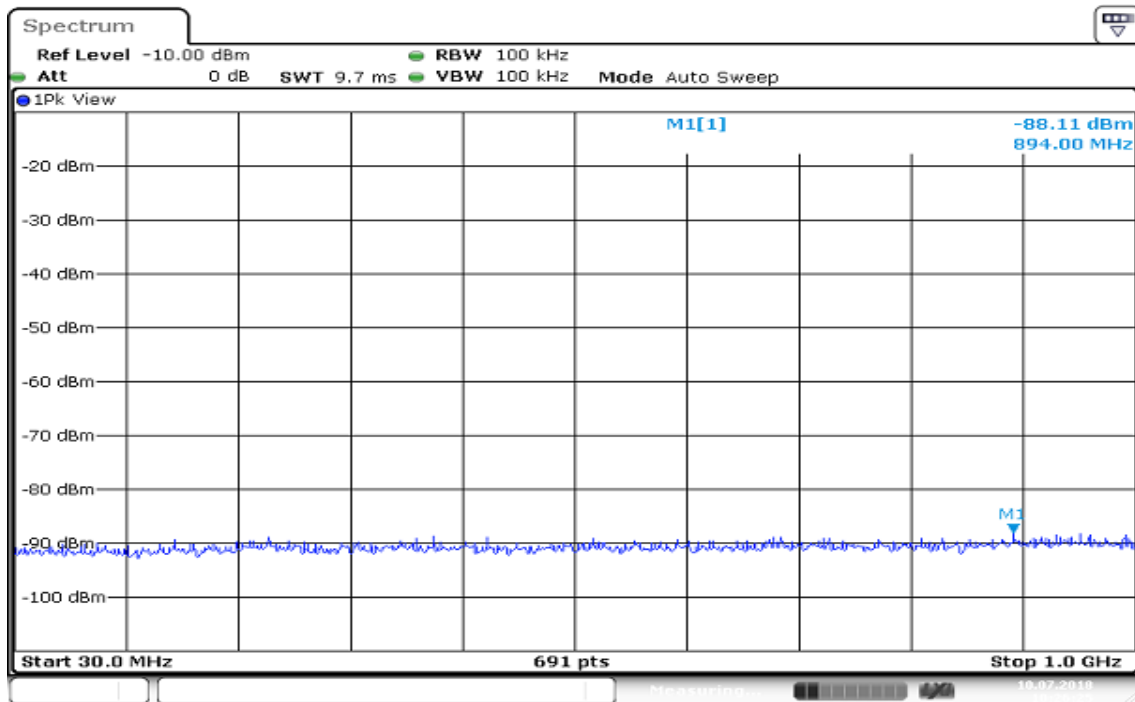


Date: 10 JUL 2018 10:25:17



Report No.: T180627D12-RJ3

ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:26:25

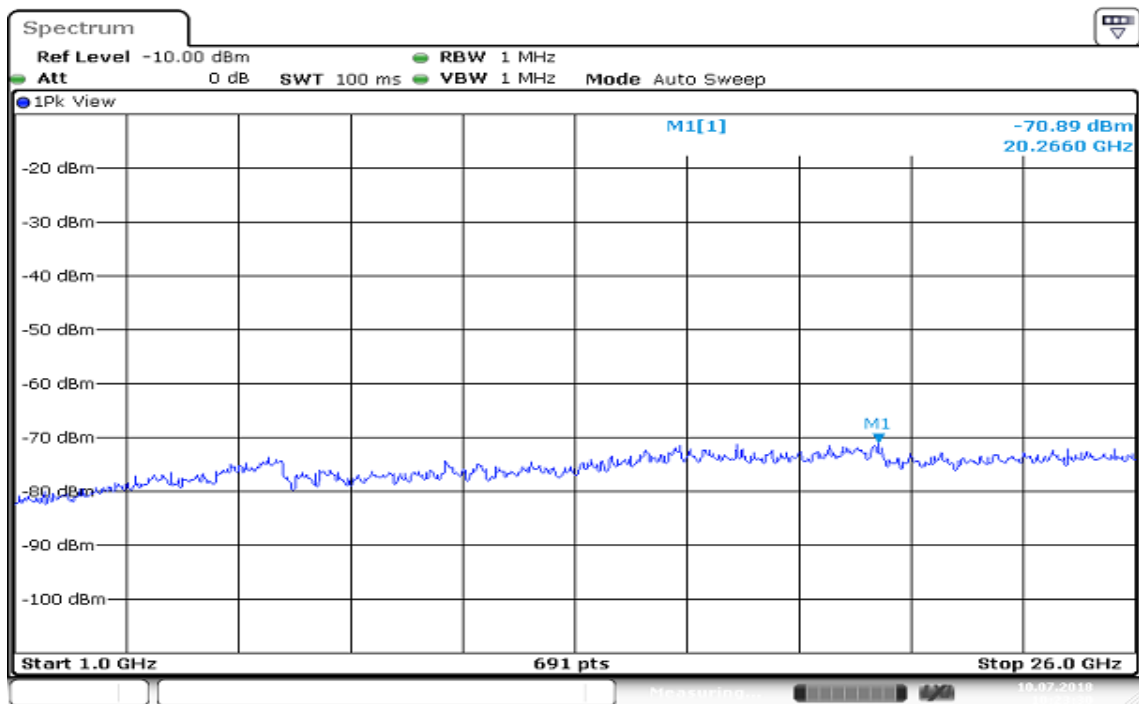


Report No.: T180627D12-RJ3

TEST RESULT**1GHz ~ 26GHz****(W52 & W53)**

Freq: 1GHz~26GHz

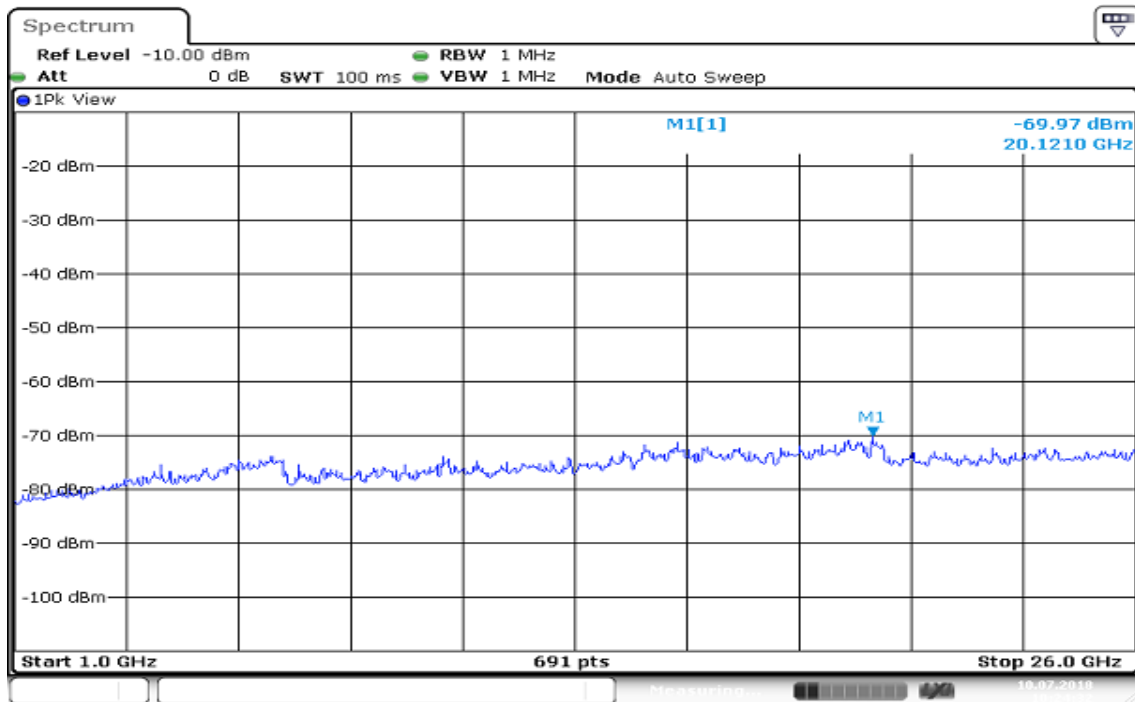
	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5210 MHz	2026.6000	-70.89	10.92	1.0069	Normal Voltage
5290 MHz	2012.1000	-69.97	10.92	1.2445	

TEST PLOTS**ANT 1 / CH Low(W52)**



Report No.: T180627D12-RJ3

ANT 1 / CH High(W53)



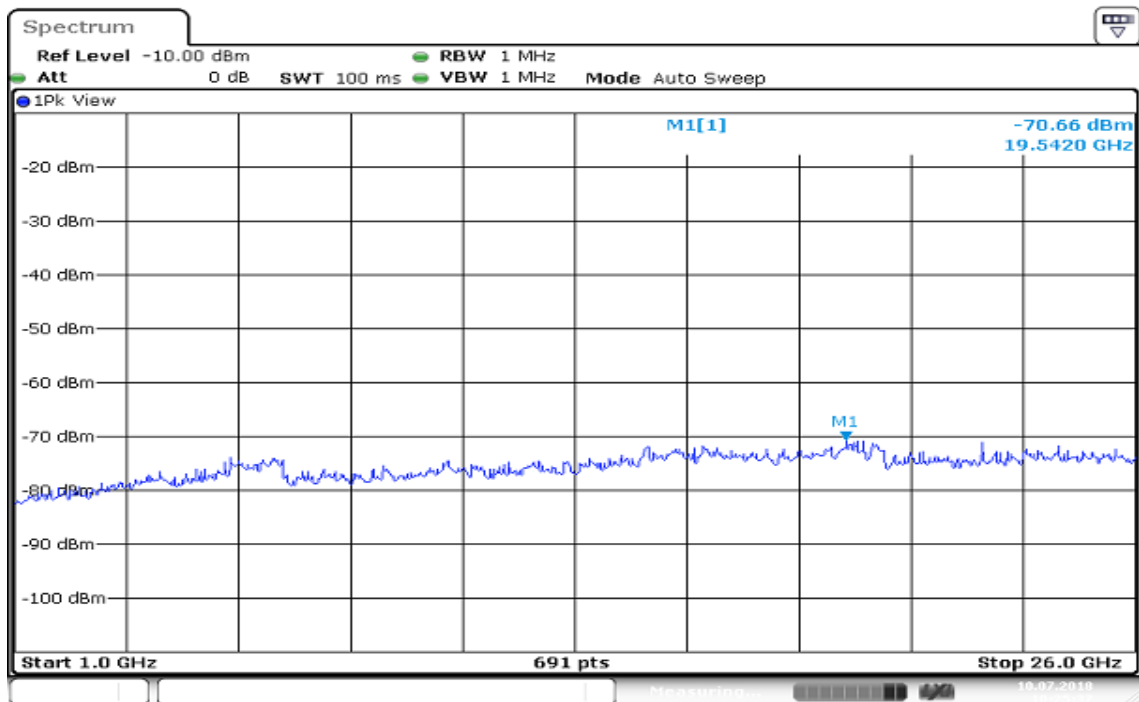
Date: 10 JUL 2018 10:24:33



Report No.: T180627D12-RJ3

TEST RESULT**1GHz~26GHz****(W56)**

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
5530 MHz	1954.2000	-70.66	10.92	1.0617	Normal Voltage
5610 MHz	2030.2000	-70.48	10.92	1.1066	

ANT 1 / CH Low(W56)

Date: 10 JUL 2018 10:25:37

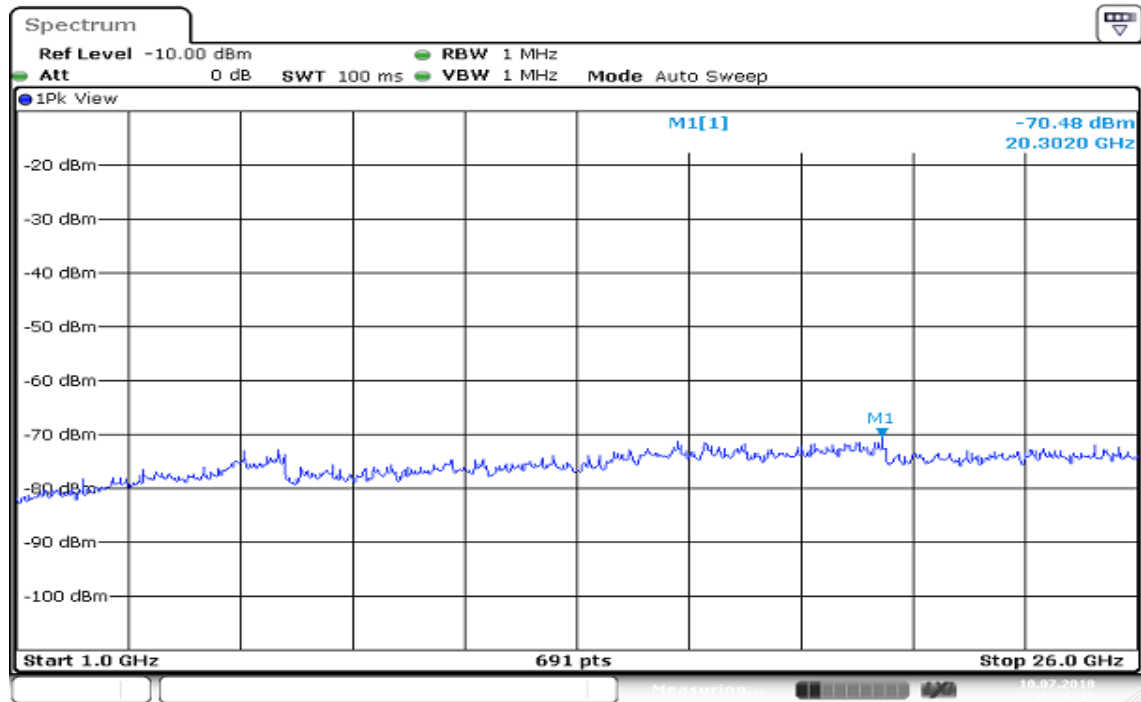


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:26:45

Report No.: T180627D12-RJ3

9.6 OUT-BAND LEAKAGE POWER (EIRP)

TEST RESULT

5.02GHz ~ 5.1232GHz

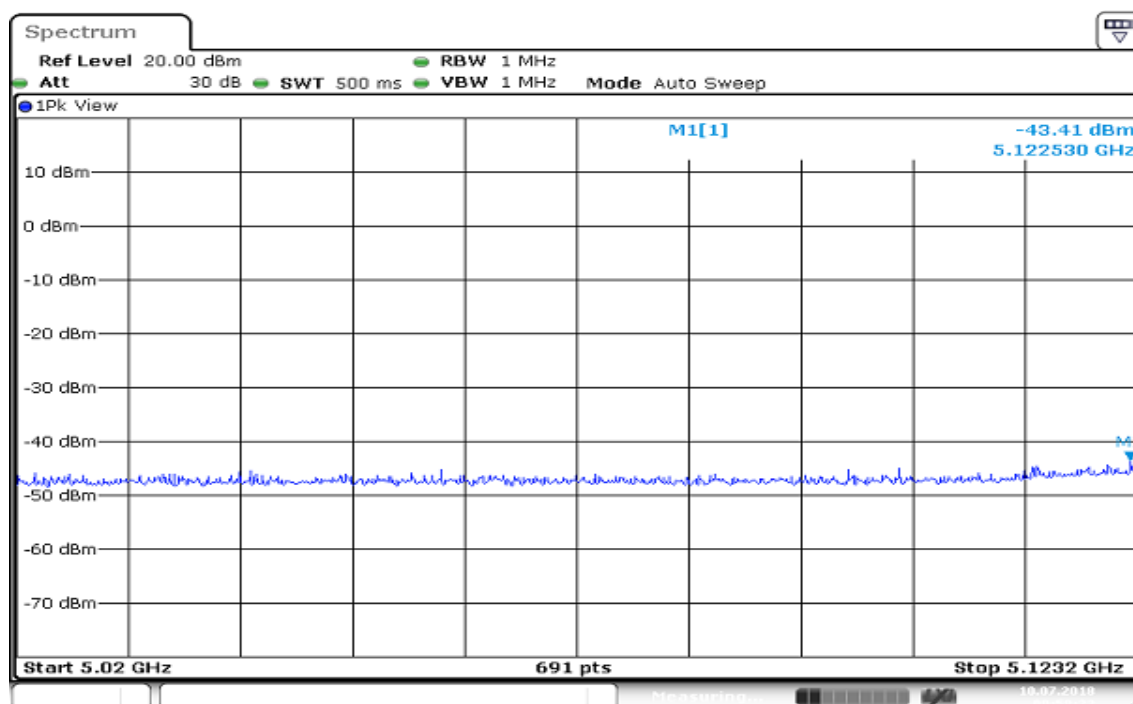
(W52)

(1) 5020MHz~less than 5123.2MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210	5122.5300	-43.41	16.92	2.24388	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 10 JUL 2018 09:58:24

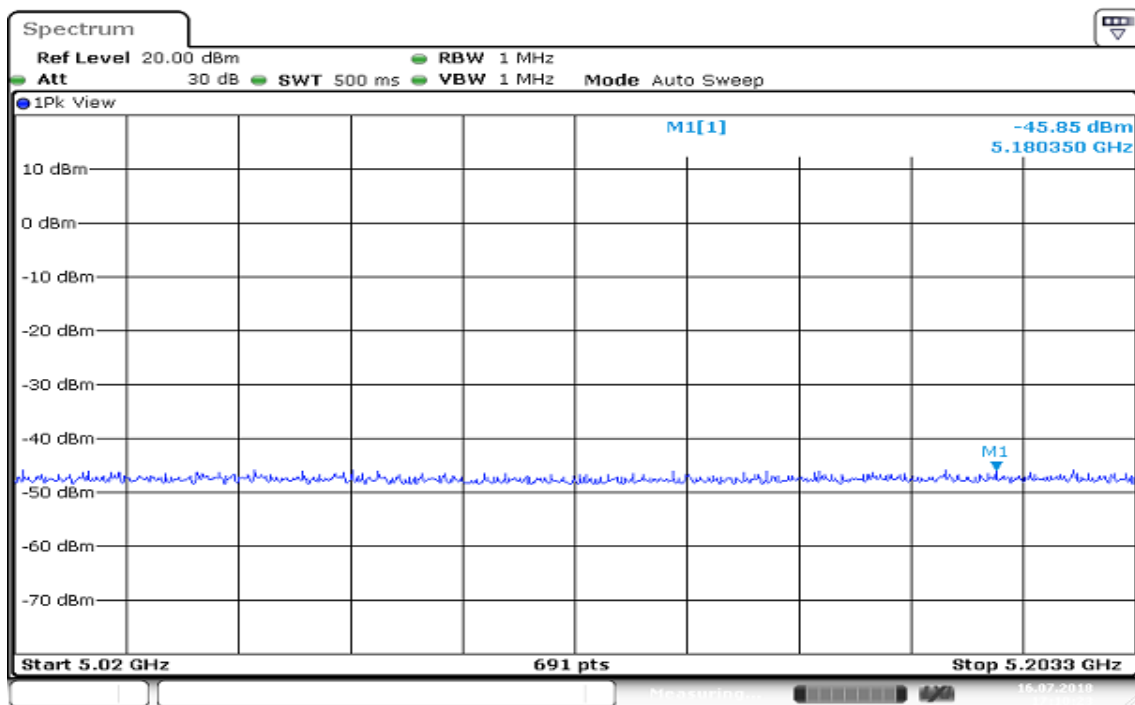


Report No.: T180627D12-RJ3

TEST RESULT**5.02GHz ~ 5.2033GHz****(W53)**

(1) 5020MHz~less than 5.2033MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5180.3500	-45.85	16.92	1.27938	Normal Voltage

TEST PLOTS**ANT 1 / CH Low(W53)**

Report No.: T180627D12-RJ3

TEST RESULT

5.34GHz ~ 5.46GHz

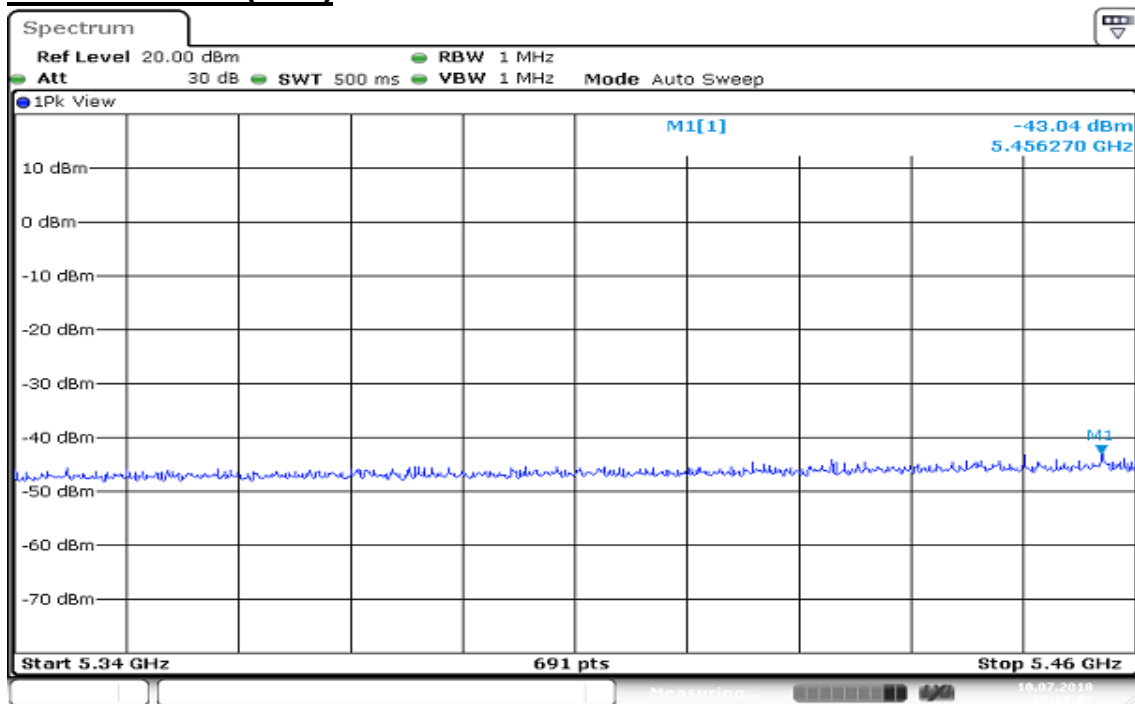
(W56)

(1) 5340MHz~less than 5460MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530.0000	5456.2700	-43.04	16.92	2.44343	Normal Voltage
5610.0000	5385.9300	-45.21	16.92	1.48252	

TEST PLOTS

ANT 1 / CH Low(W56)



Date: 10 JUL 2018 10:11:03

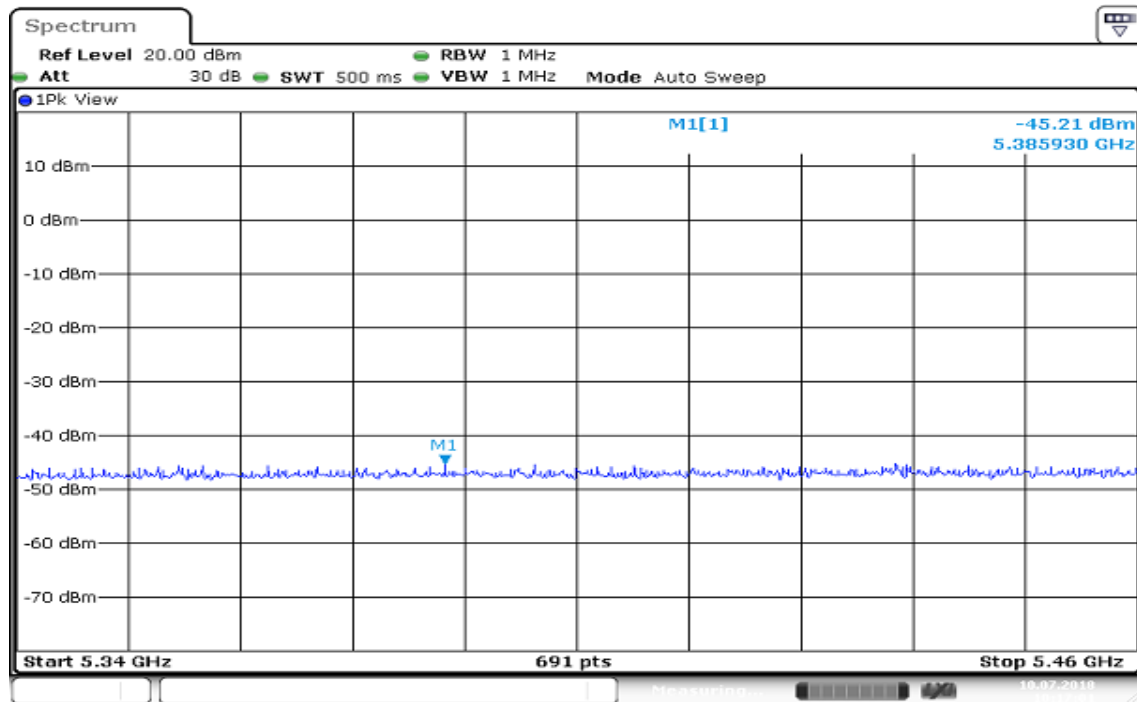


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:17:02

Report No.: T180627D12-RJ3

TEST RESULT

5.1232GHz ~ 5.15GHz

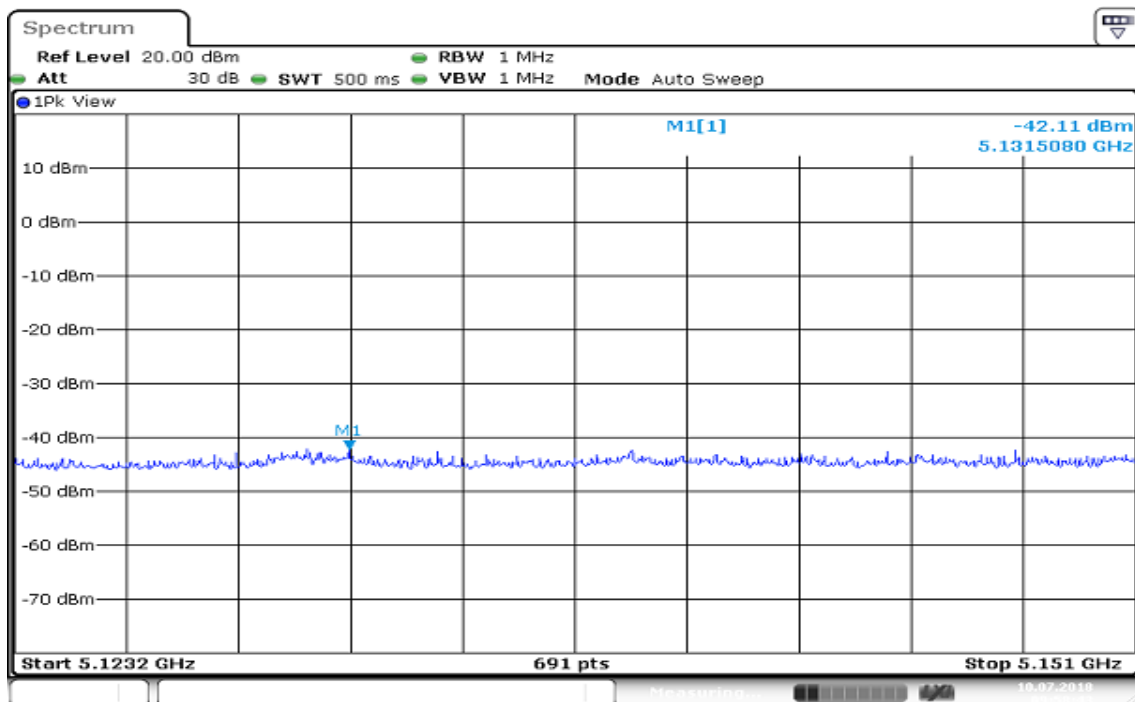
(W52)

(2) 5123.2MHz~less than 5150MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210	5131.5080	-42.11	16.92	3.02691	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 10 JUL 2018 09:58:44



Report No.: T180627D12-RJ3

TEST RESULT

5.2033GHz ~ 5.21GHz

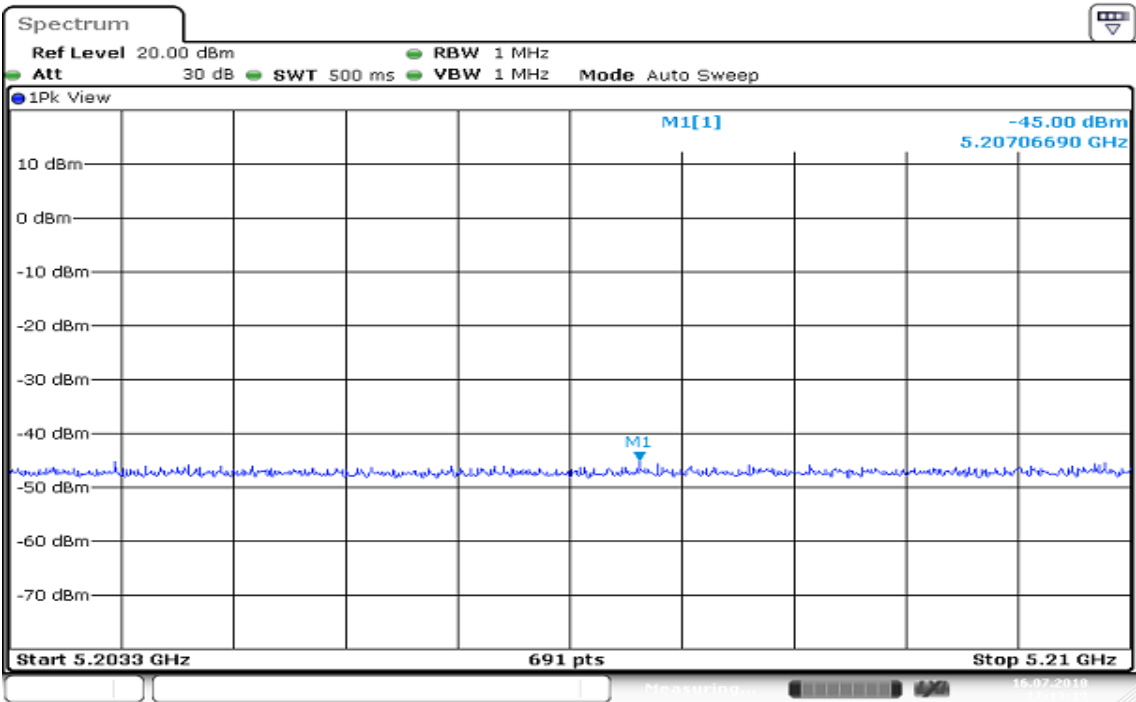
(W53)

(2) 5.2033MHz~less than 5210MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5207.0669	-45.00	16.92	1.55597	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W53)



Date: 16 JUL 2018 17:13:14

Report No.: T180627D12-RJ3

TEST RESULT

5.46GHz ~ 5.4695GHz

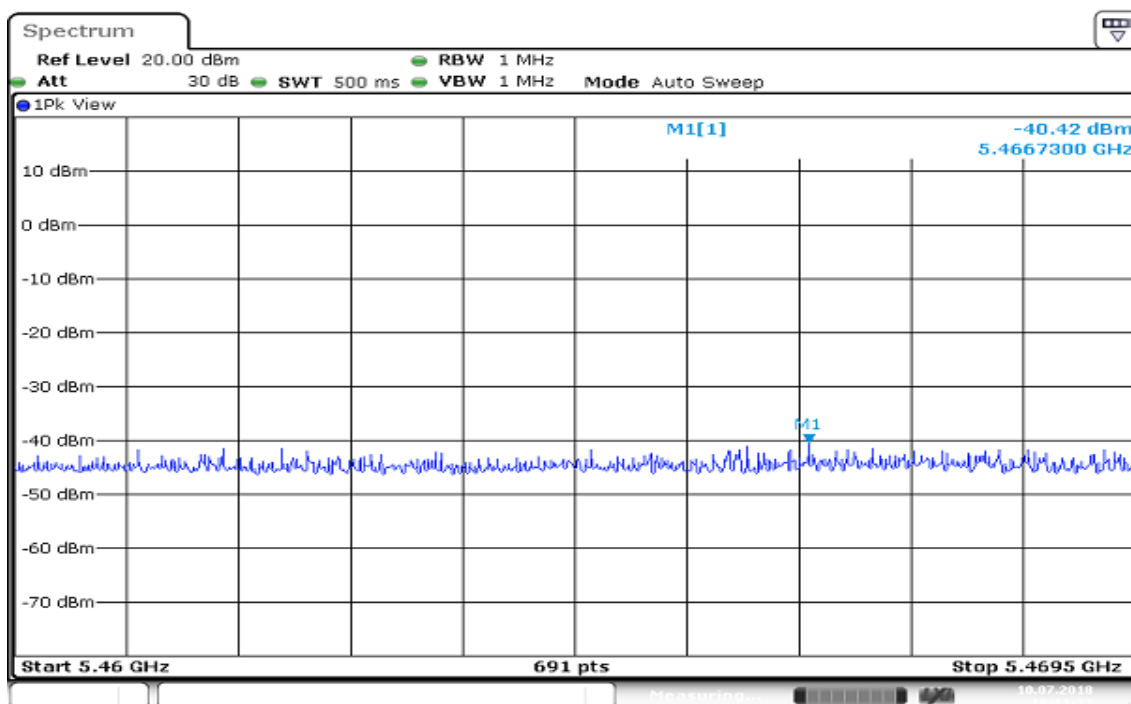
(W56)

(2) 5460MHz~less than 5.4695MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530.0000	5466.7300	-40.42	16.92	4.46684	Normal Voltage : DC5V
5610.0000	5461.2440	-44.14	16.92	1.89671	

TEST PLOTS

ANT 1 / CH Low(W56)



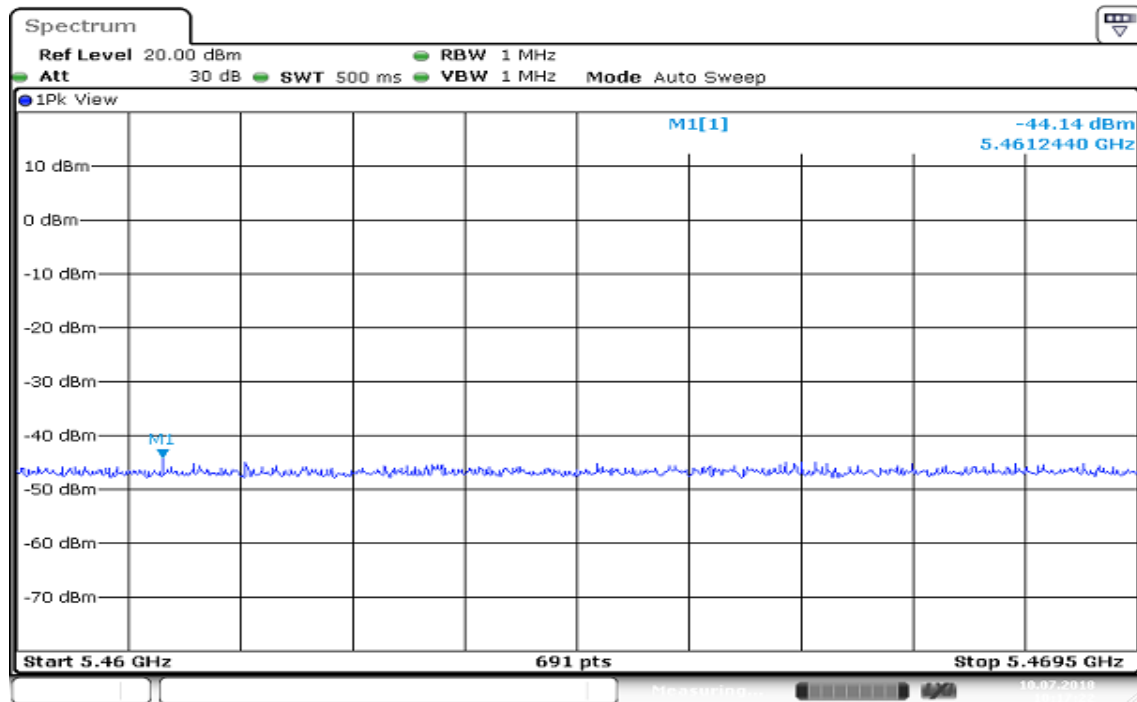


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:17:22

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TEST RESULT

5.25GHz ~ 5.251GHz

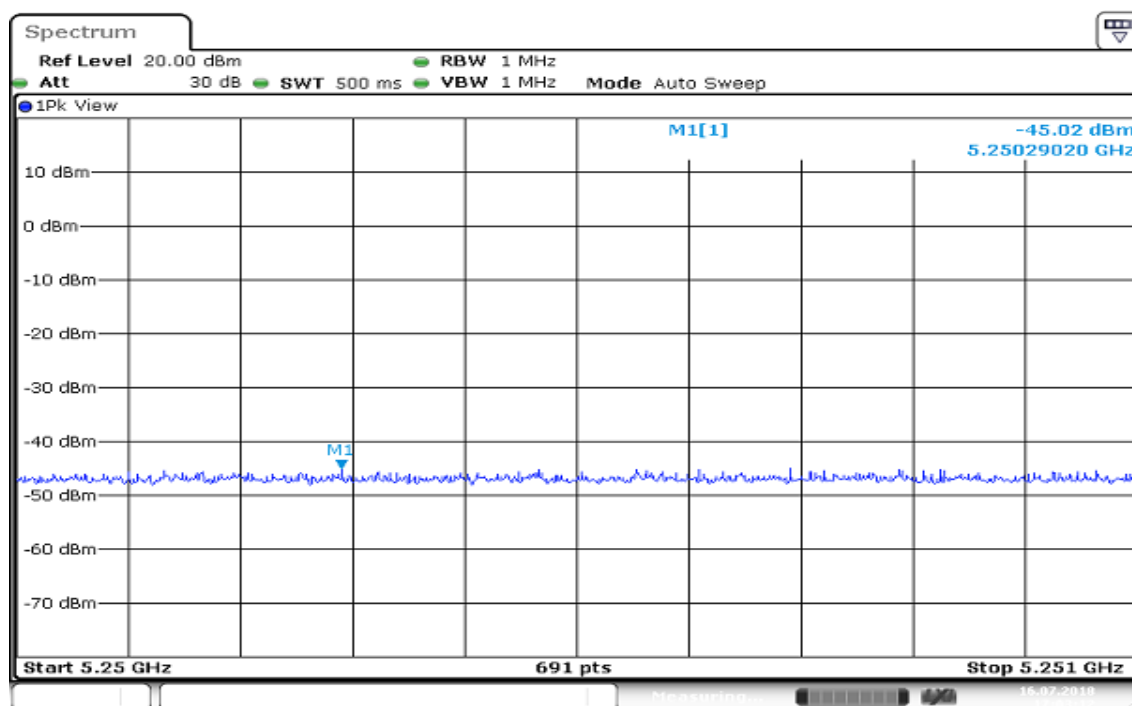
(W52)

(3) 5250MHz~less than 5251MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210	5250.2902	-45.02	16.92	1.54882	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 16 JUL 2018 17:03:12

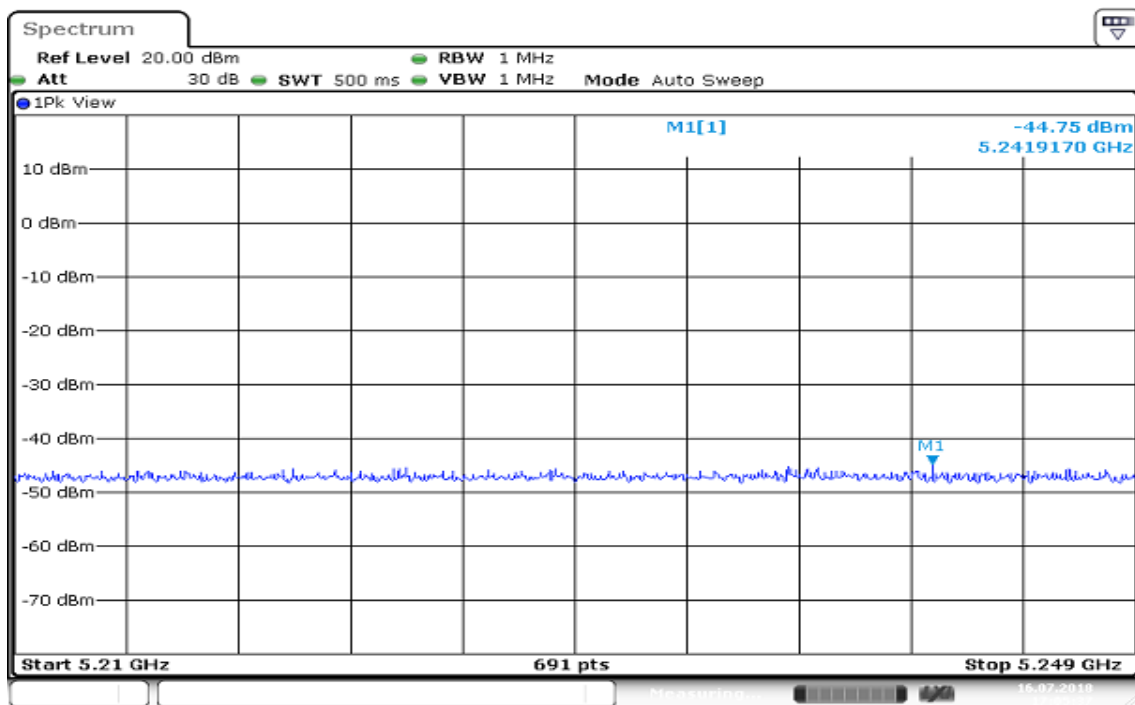


Report No.: T180627D12-RJ3

TEST RESULT**5.21GHz ~ 5.249GHz****(W53)**

(3) 5210MHz~less than 5249MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5241.9170	-44.75	16.92	1.64816	Normal Voltage

TEST PLOTS**Ant 1 / CH Low(W53)**



Report No.: T180627D12-RJ3

TEST RESULT

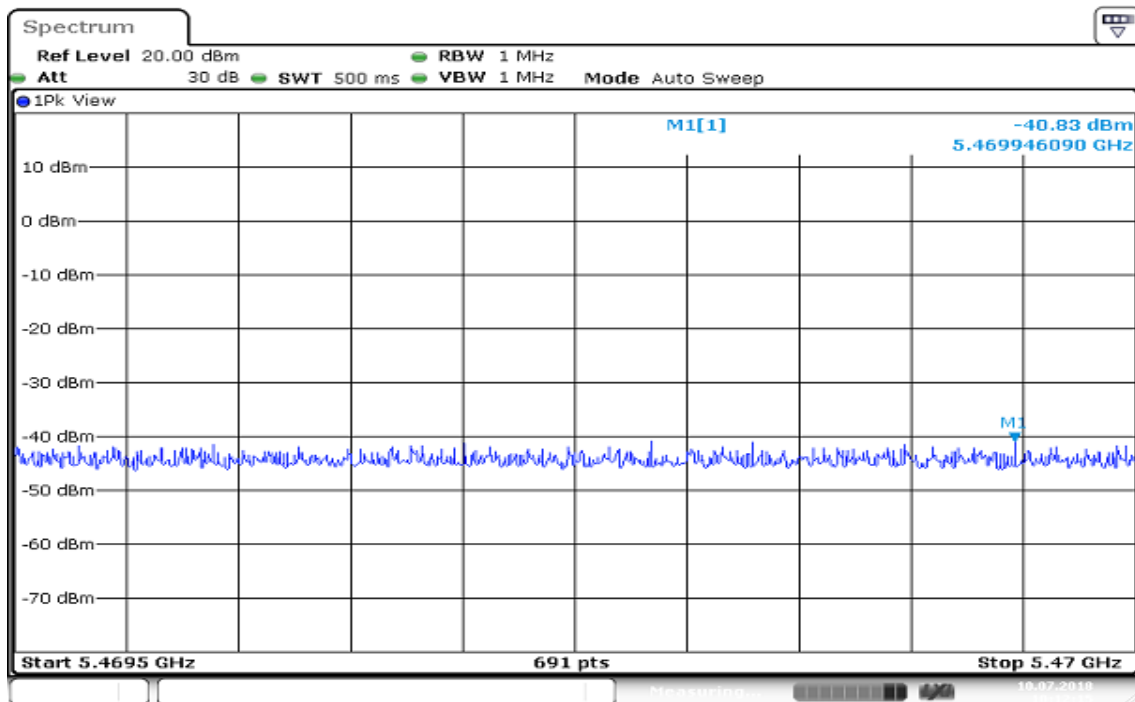
5.469GHz ~ 5.47GHz

(W56)

(3) 5.4695MHz~less than 5470MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530.0000	5469.9461	-40.83	16.92	4.06443	Normal Voltage : DC5V
5610.0000	5469.8477	-44.64	16.92	1.69044	

ANT 1 / CH Low(W56)

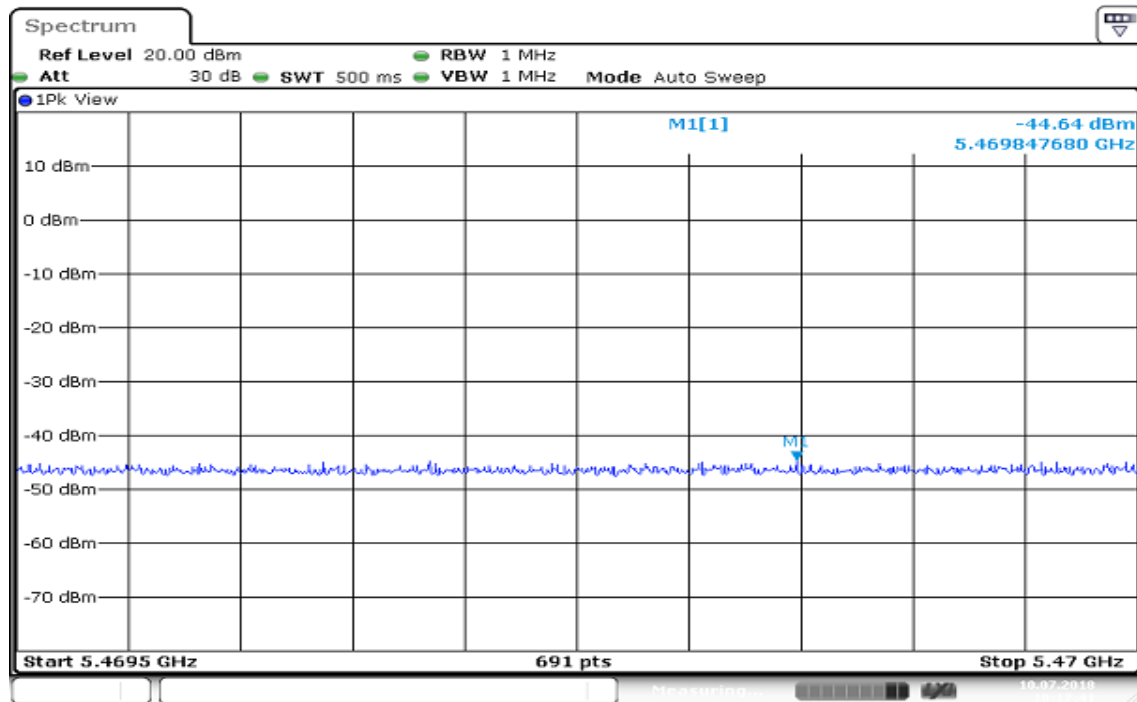


Date: 10 JUL 2018 10:12:16



Report No.: T180627D12-RJ3

ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:17:42

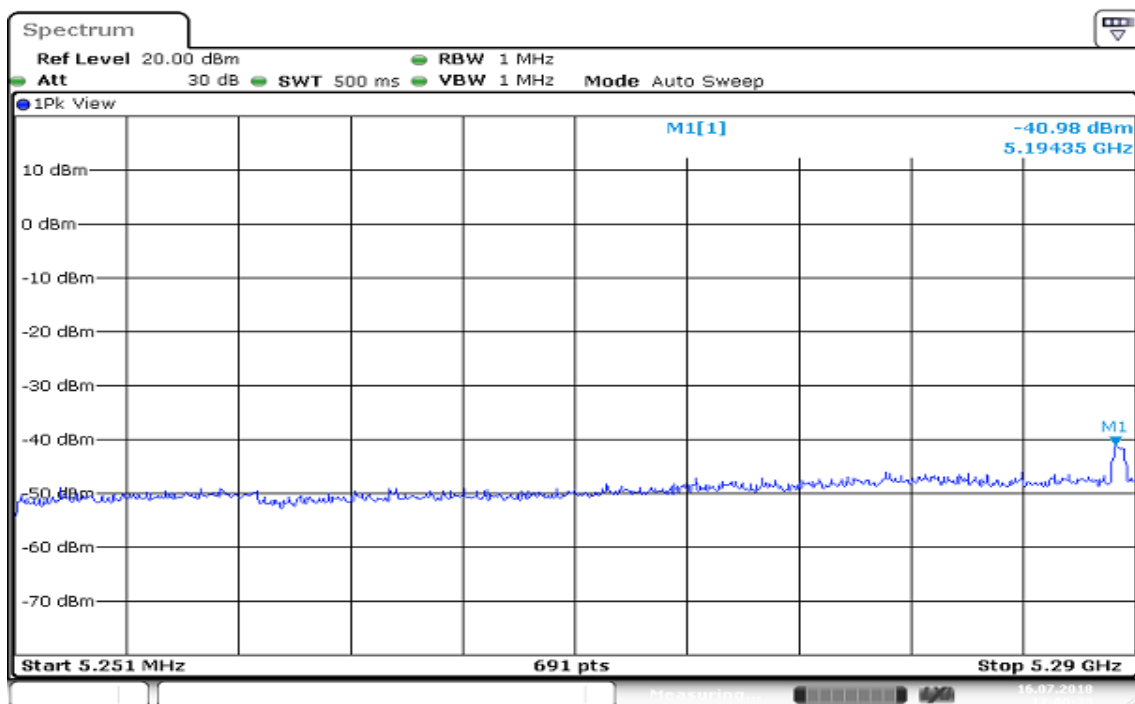


Report No.: T180627D12-RJ3

TEST RESULT**5.251GHz ~ 5.29GHz****(W52)**

(4) 5251MHz~5290MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210	5194.3500	-40.98	16.92	3.92645	Normal Voltage

TEST PLOTS**ANT 1 / CH Low(W52)**

Date: 16 JUL 2018 17:00:34



Report No.: T180627D12-RJ3

TEST RESULT

5.249GHz ~ 5.25GHz

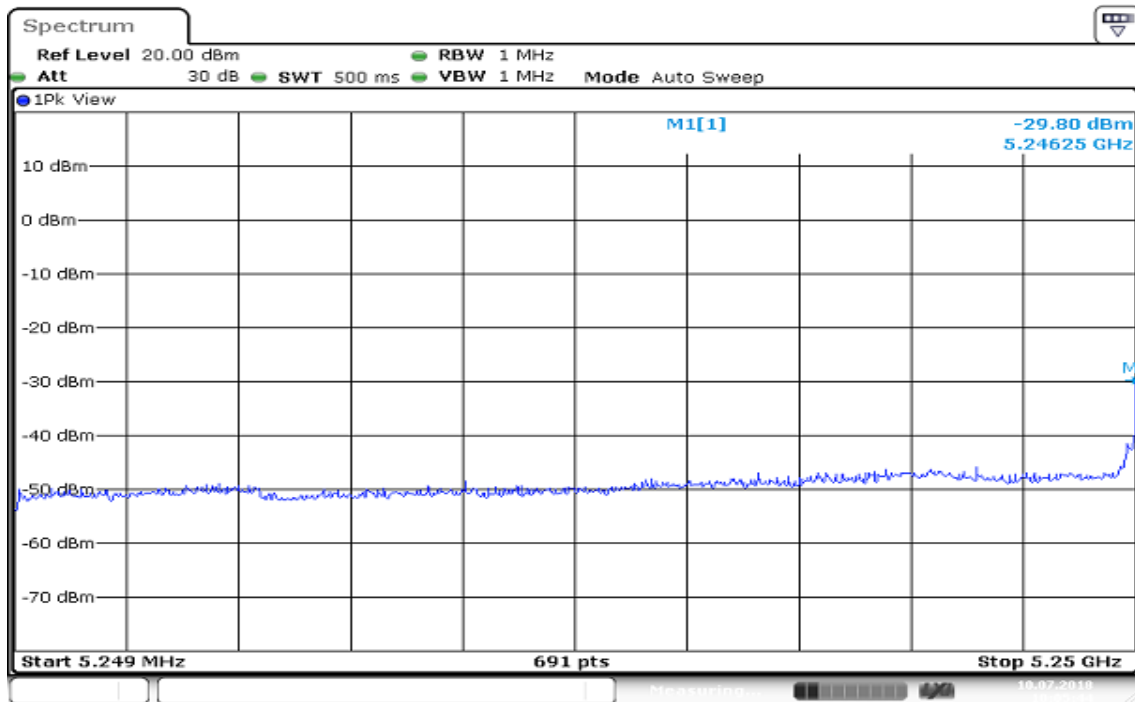
(W53)

(4) 5249MHz~5250MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5246.2490	-29.80	16.92	51.52286	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W53)



Date: 10 JUL 2018 10:05:44

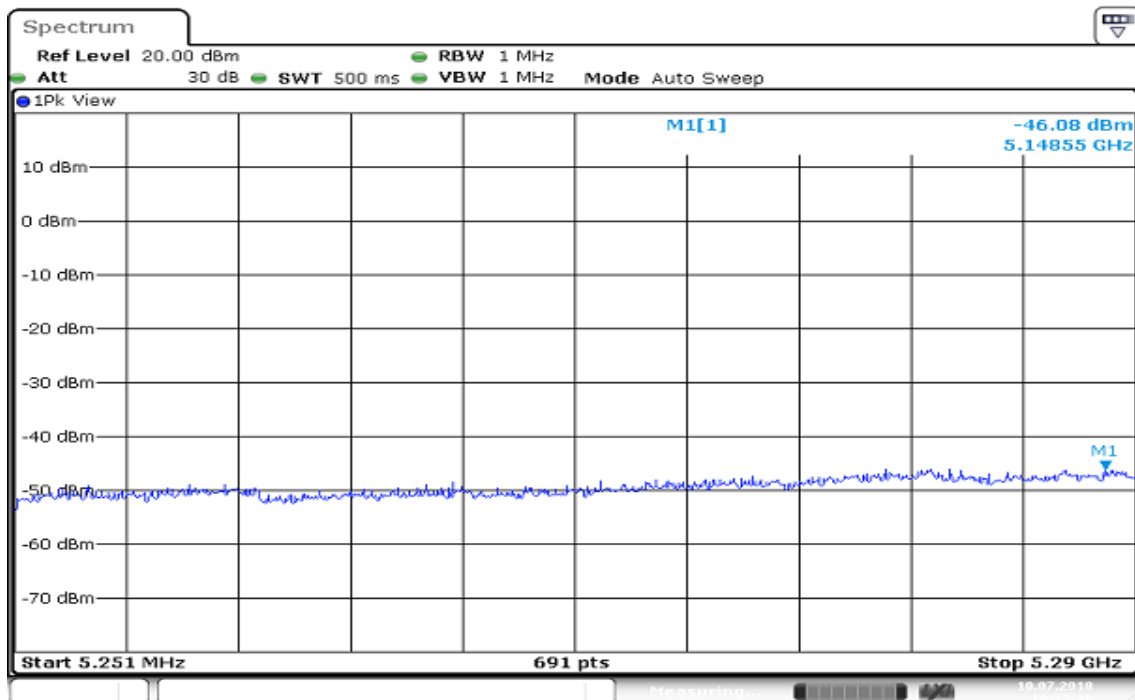


Report No.: T180627D12-RJ3

TEST RESULT**5.725GHz ~ 5.8GHz****(W56)**

(4) 5725MHz~less than 5800MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5530.0000	5148.5510	-46.08	16.92	1.21339	Normal Voltage : DC5V
5610.0000	4169.5510	-45.51	16.92	1.38357	

ANT 1 / CH Low(W56)

Date: 10 JUL 2018 10:12:38

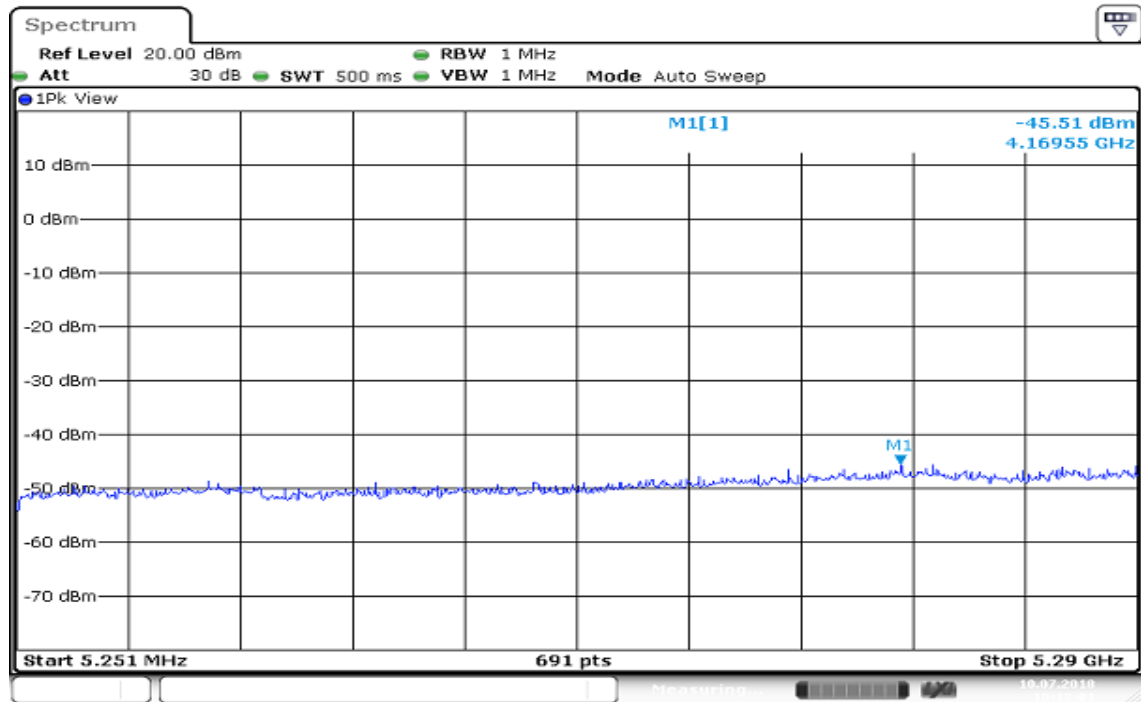


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ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:18:01

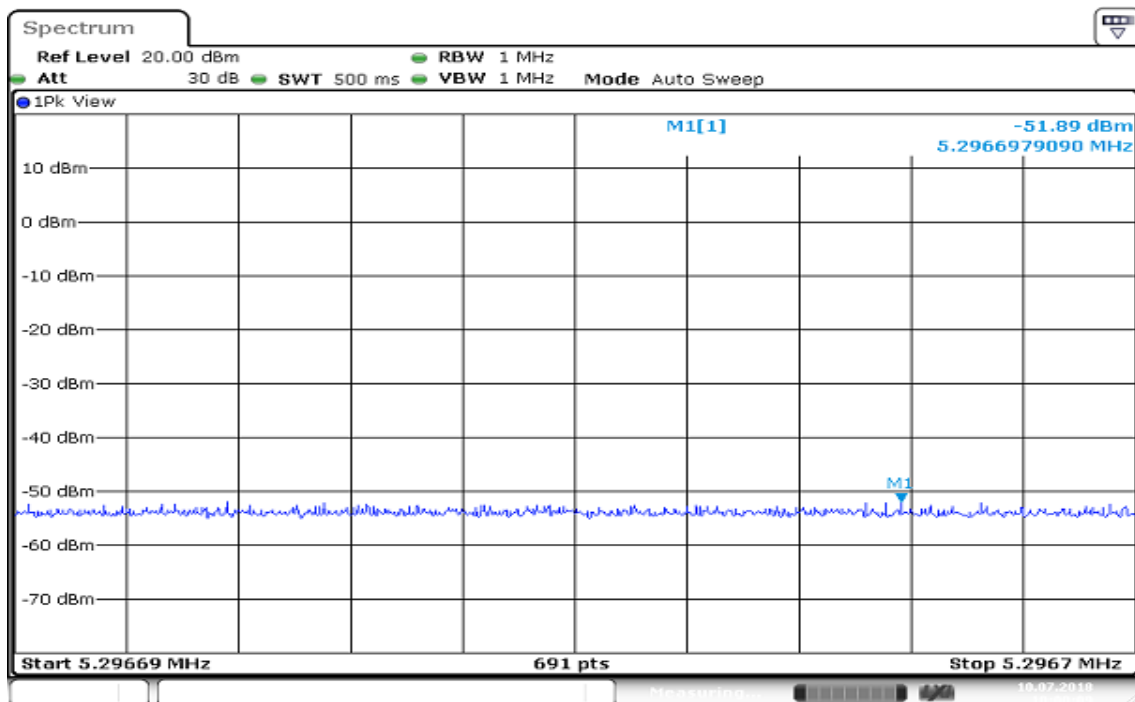


Report No.: T180627D12-RJ3

TEST RESULT**5.29GHz ~ 5.2967GHz****(W52)**

(5) 5290MHz~5.2967MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
5210	5.2967	-51.89	16.92	0.31842	Normal Voltage

TEST PLOTS**ANT 1 / CH Low(W52)**

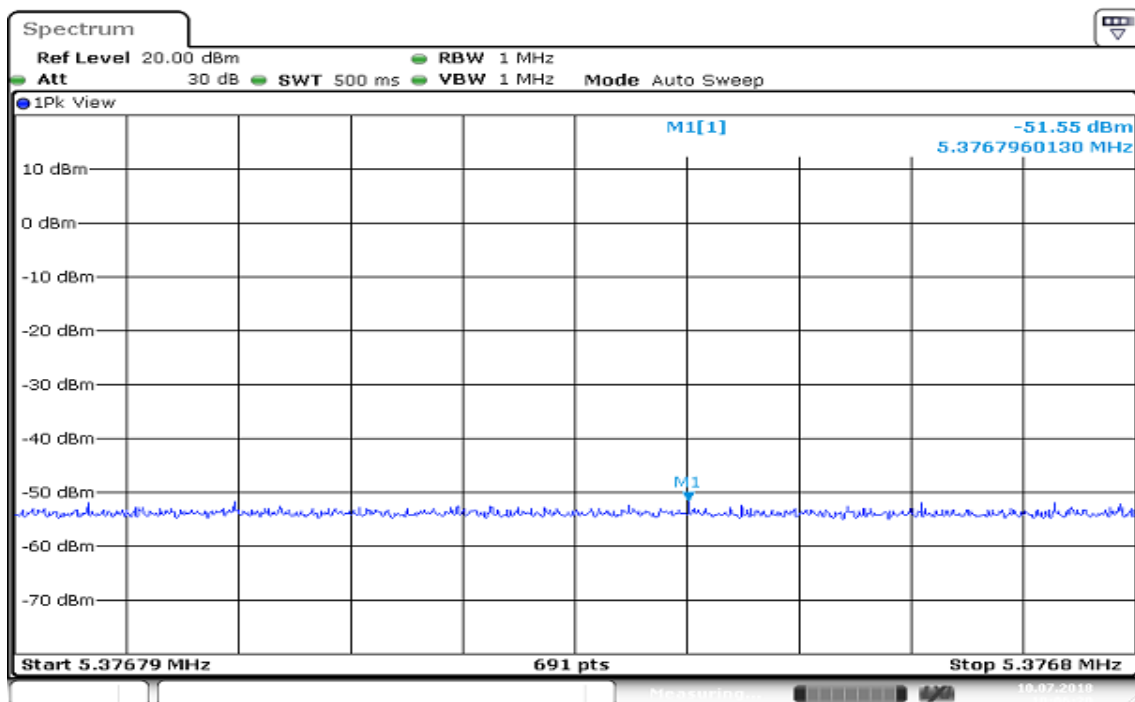


Report No.: T180627D12-RJ3

TEST RESULT**5.35GHz ~ 5.3768GHz****(W53)**

(5) 5350MHz~5.3768MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5.3768	-51.55	16.92	0.34435	Normal Voltage

TEST PLOTS**ANT 1 / CH Low(W53)**

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TEST RESULT

5.2967GHz ~ 5.48GHz

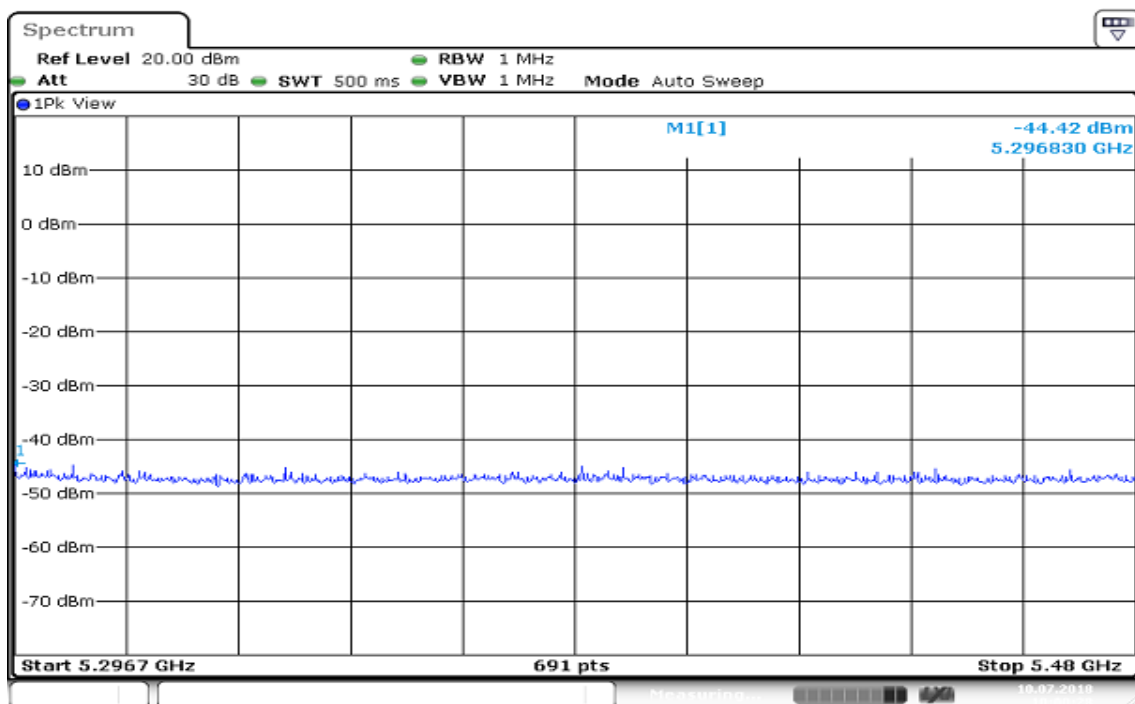
(W52)

(6) 5.2967MHz~5480MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5210	5296.8300	-44.42	16.92	1.77828	Normal Voltage

TEST PLOTS

ANT 1 / CH Low(W52)



Date: 10 JUL 2018 10:00:29

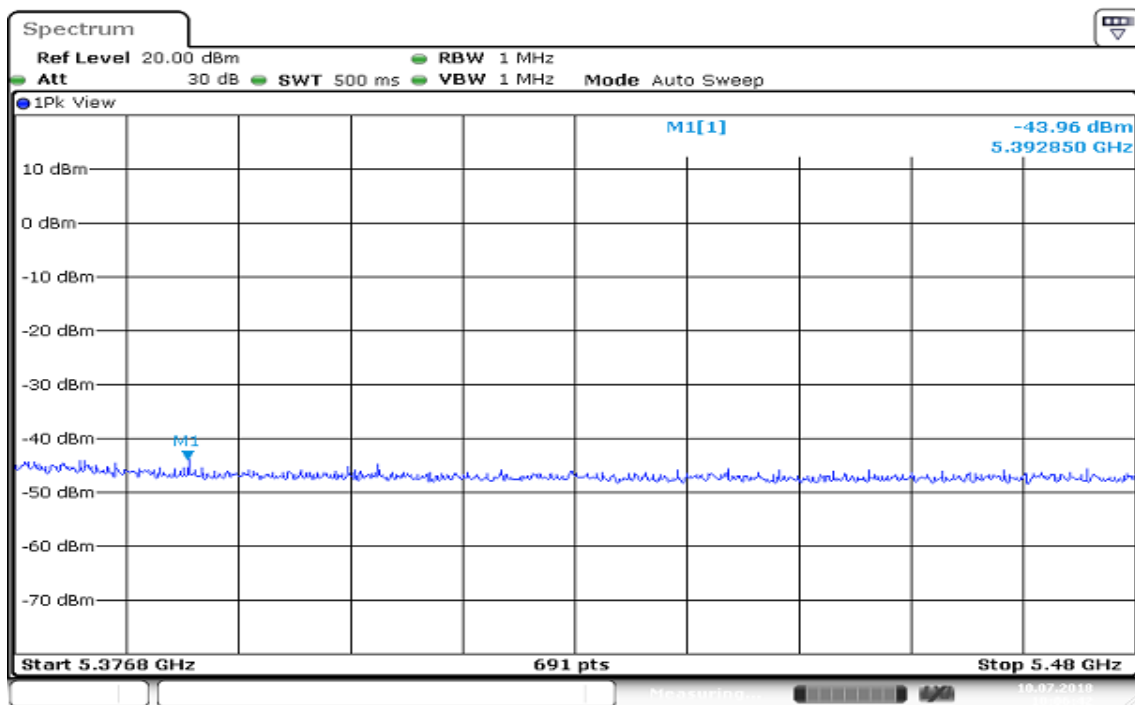


Report No.: T180627D12-RJ3

TEST RESULT**5.3768GHz ~ 5.48GHz****(W53)**

(6) 5.3768MHz~5480MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
5290	5392.8500	-43.96	16.92	1.97697	Normal Voltage

TEST PLOTS**ANT 1 / CH Low(W53)**



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9.7 ADJACENT CHANNEL LEAKAGE POWER

TEST RESULT

(W52 & W53)

Test Frequency	MHz	5210	5290	5210	5290	5210	5290		
Adjacent Channel Leakage Power	-80MHz	31.16	30.37						Limit \geq 25dB (78MHz)
	+80MHz	31.88	31.45						Limit \geq 25dB (78MHz)

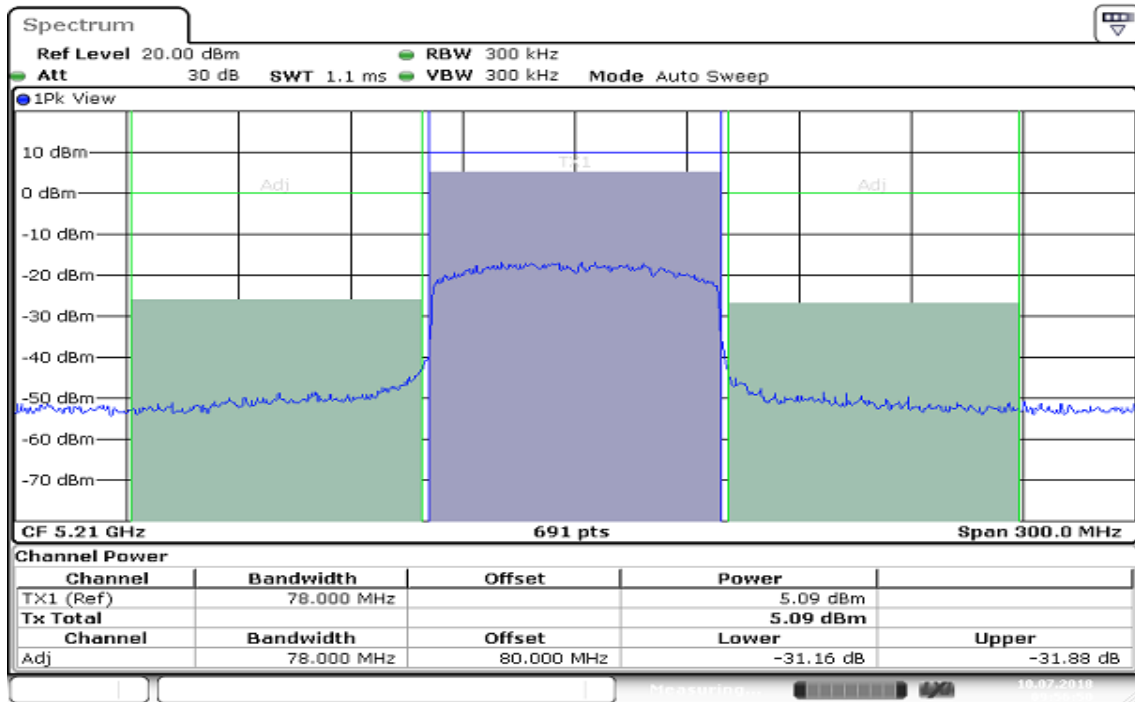
(W56)

Test Frequency	MHz	5530	5610	5530	5610	5530	5610		
Adjacent Channel Leakage Power	-80MHz	32.91	31.34						Limit \geq 25dB (78MHz)
	+80MHz	31.82	31.72						Limit \geq 25dB (78MHz)

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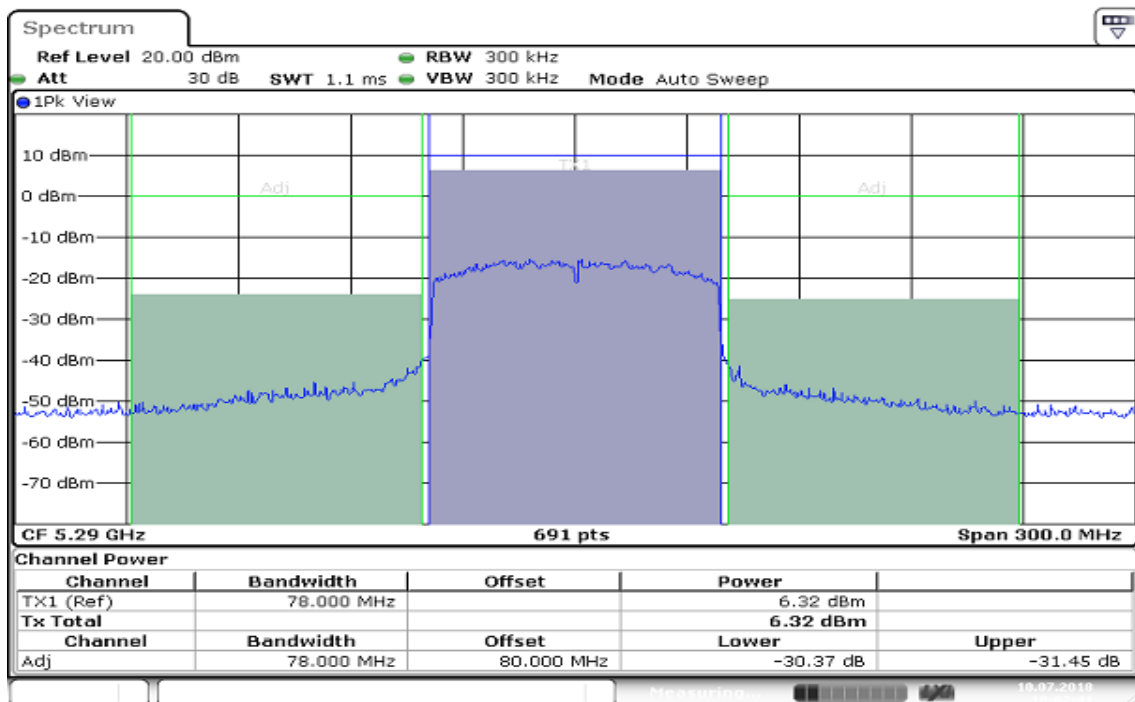
TEST PLOTS

ANT 1 / CH Low(W52&W53)



Date: 10 JUL 2018 09:56:51

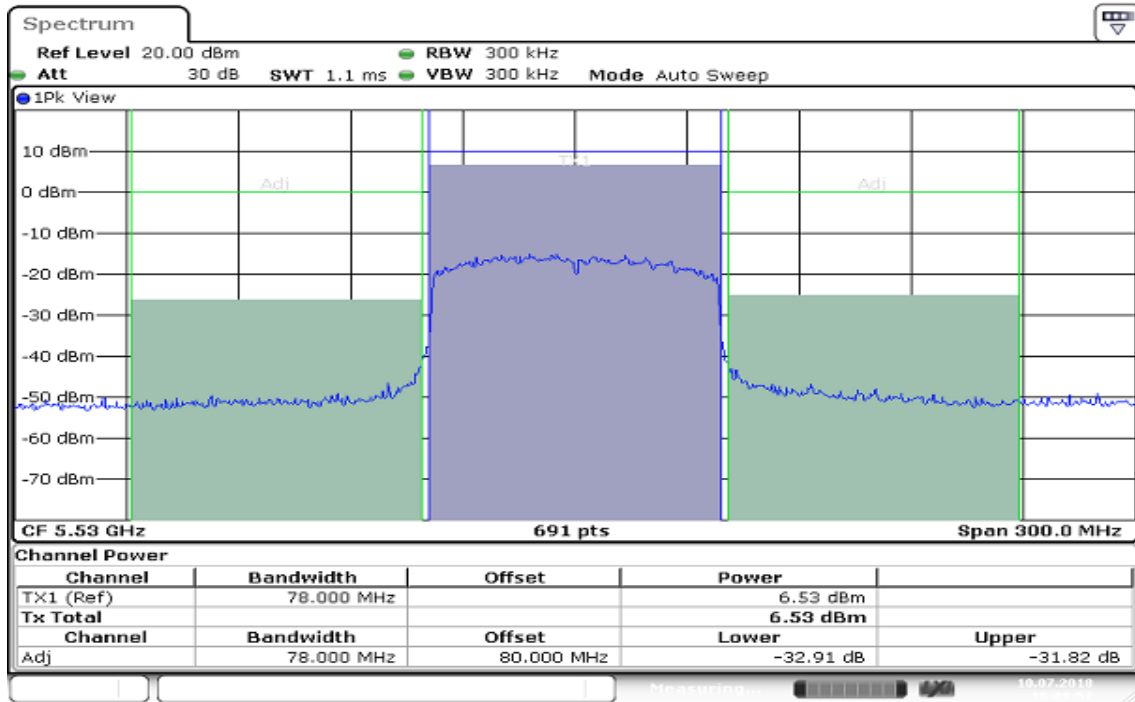
ANT 1 / CH High(W52&W53)



Date: 10 JUL 2018 10:02:41

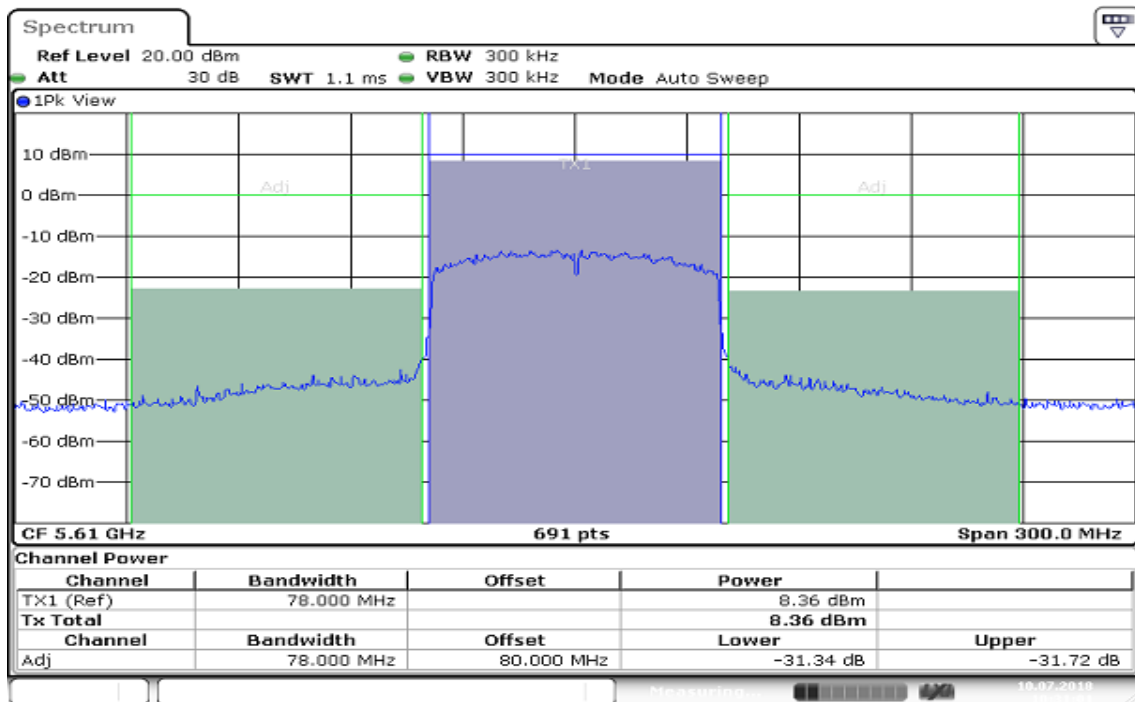
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ANT 1 / CH Low(W56)



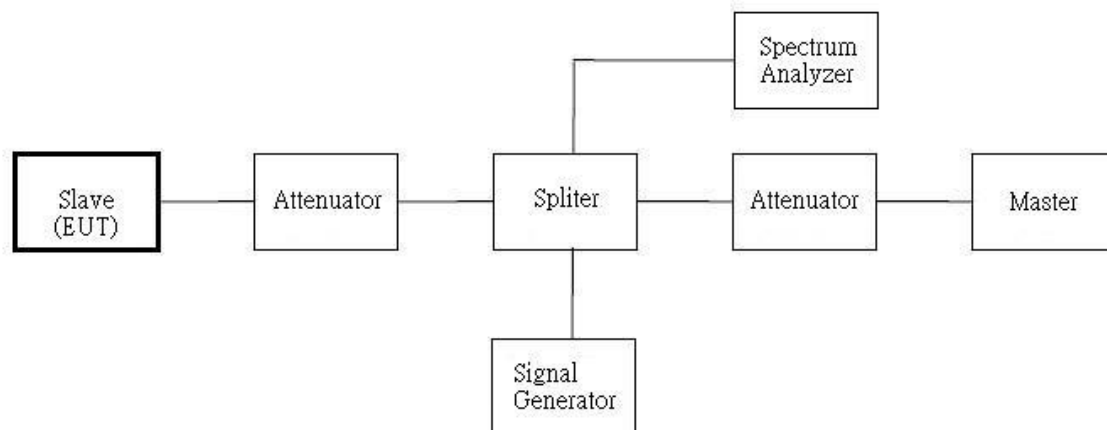
Date: 10 JUL 2018 10:08:58

ANT 1 / CH High(W56)



Date: 10 JUL 2018 10:31:01

9.8 CARRIER SENSE



Carrier Sense

	Normal Voltage	High Voltage	Low Voltage
Result	OK	OK	OK

Pin = 22.79+Gr-20*log(freq_MHz) [dBm]

Limit : 100mV/m eirp

confirmed at -50dBm

Result : **OK**

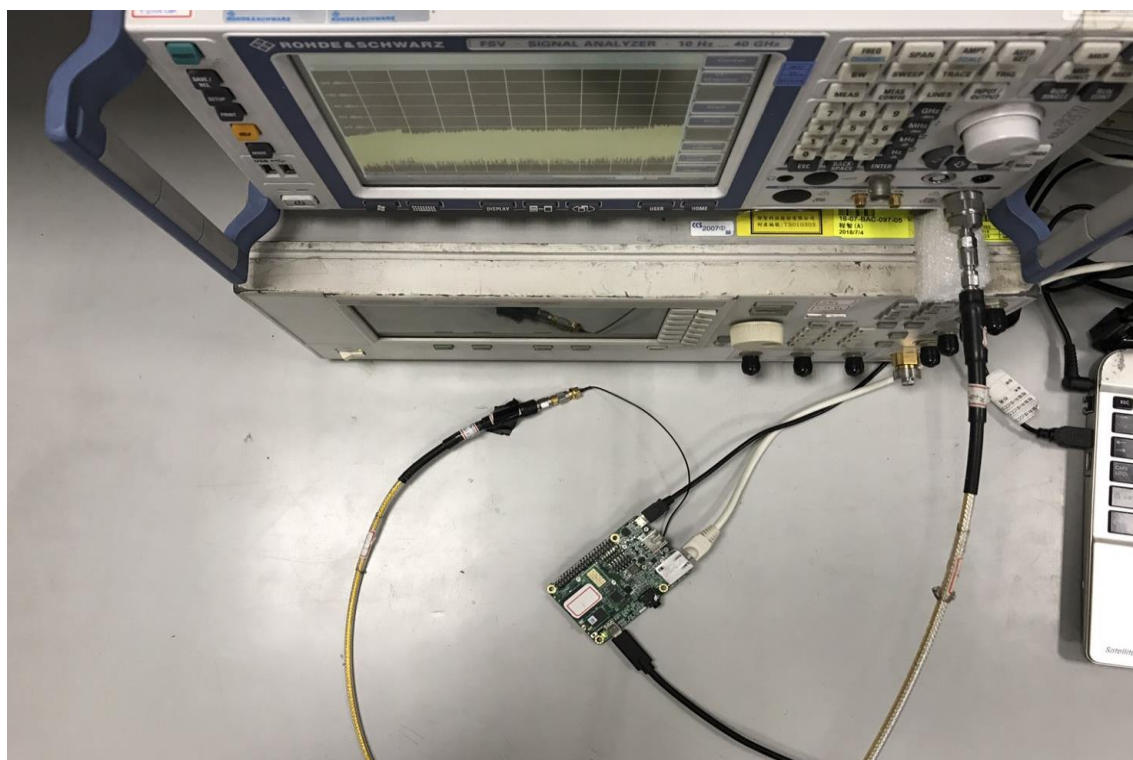
- End of Test Report -

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APPENDIX A - PHOTOGRAPHS OF TEST SETUP



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