

Report No.: SEWM2212000308RG05
 Rev.: 04
 Page: 1 of 300

TEST REPORT

Application No.: SEWM2212000308RG
Applicant: Sony Corporation
Address of Applicant: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer: Sony Corporation
Address of Manufacturer: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
EUT Description: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS
Trade Mark: Sony
FCC ID: PY7-51629L
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/11/30
Date of Test: 2022/12/26 to 2023/03/09
Date of Issue: 2023/03/09

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Pantar Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/01/12		Original
02		2023/02/20		Added test data of Simultaneous TX emissions and deleted peak power data
03		2023/02/23		Added test data of Non-Occupancy Period and Updated the Clause 4.4&4.9&4.10
04		2023/03/09		Added test data of Straddle Channel 6dB emission bandwidth

This report supersedes our previous report SEWM2212000308RG05, issued on 2023/02/23, which is hereby deemed null and void.

Prepared By	 <hr/> (Ives Cheng) / Test Engineer
Checked By	 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	Reporting only
	Band II-A	15.407(a)(2)			
	Band II-C	15.407(a)(2)			
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	Reporting only
Maximum Conducted Output Power	Band I	15.407(a)(iv)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*Ig(EBW)}		
	Band II-C				
	Band III	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)(iv)	<11dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C				
	Band III	15.407(a)(3)	<30dBm/500KHz		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP)		PASS



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			<p>a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;</p> <p>b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;</p> <p>c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and</p> <p>d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.</p> <p>F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).</p>		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A

Note 1:
 Band I: 5150-5250MHz
 Band II-A: 5250-5350MHz
 Band II-C: 5470-5725MHz
 Band III: 5725-5850MHz



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Contents

1 Version2

2 Test Summary3

3 General Information6

 3.1 Details of Client6

 3.2 Test Location6

 3.3 Test Facility6

 3.4 General Description of EUT7

 3.5 Test Environment and Mode10

 3.6 Description of Support Units10

 3.7 Worst-case configuration and mode10

4 Test results and Measurement Data11

 4.1 Antenna Requirement11

 4.2 AC Power Line Conducted Emissions12

 4.3 Duty Cycle16

 4.4 Conducted Output Power17

 4.5 26dB Emission Bandwidth18

 4.6 6dB Emission Bandwidth19

 4.7 99% Occupied Bandwidth20

 4.8 Power Spectral Density21

 4.9 Radiated Spurious Emissions22

 4.10 Restricted bands around fundamental frequency24

 4.11 Dynamic Frequency Selection26

 4.11.1 DFS Overview26

 4.11.2 DFS Detection Thresholds27

 4.11.3 RADAR TEST WAVEFORMS28

 4.11.4 Response Requirements30

5 Measurement Uncertainty (95% confidence levels, k=2)31

6 Equipment List32

7 Photographs - Setup Photos35



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3 General Information

3.1 Details of Client

Applicant:	Sony Corporation
Address of Applicant:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer:	Sony Corporation
Address of Manufacturer:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

<ul style="list-style-type: none"> • A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. • Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. • FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327
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3.4 General Description of EUT

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS	
Trade Mark:	Sony	
Hardware Version:	A	
Software Version:	0.256	
SN:	RF Conducted	HQ62B20407
	RSE & AC power line	HQ62B2030D
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	PIFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: 0.3dBi(Ant6) 5250MHz to 5350MHz: 1.1dBi(Ant6) 5470MHz to 5725MHz: 2.0dBi(Ant6) 5725MHz to 5850MHz: 2.5dBi(Ant6)	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac
	<input type="checkbox"/> MIMO	CDD: 802.11a/n/ac: Tx & Rx
		STBC: 802.11n/ac: Tx & Rx
		TXBF: 802.11n/ac: Tx & Rx
<input type="checkbox"/> Diversity	802.11a: Tx & Rx	
TPC Function:	<input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support	
DFS Function:	<input type="checkbox"/> Master	
	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	2.0dB	
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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290



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For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
	138 ^[3]	5690		

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
3. The above Frequency and Channel were 802.11ac VHT80.



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.89
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Router	ASUS	GT-AXE11000 (FCC ID MSQ-RTAXJF00)

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: 0.3dBi(Ant6) 5250MHz to 5350MHz: 1.1dBi(Ant6) 5470MHz to 5725MHz: 2.0dBi(Ant6) 5725MHz to 5850MHz: 2.5dBi(Ant6)</p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



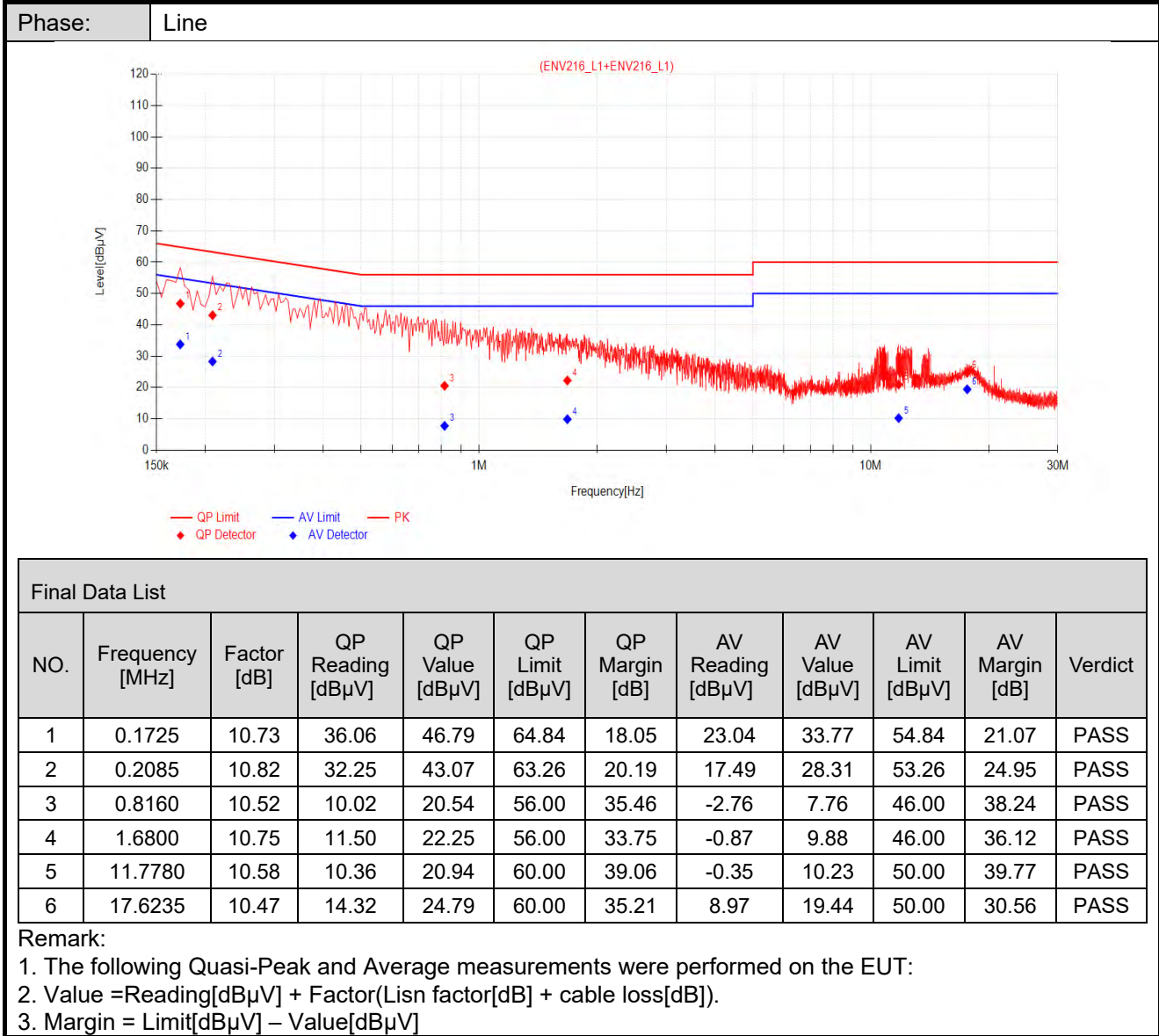
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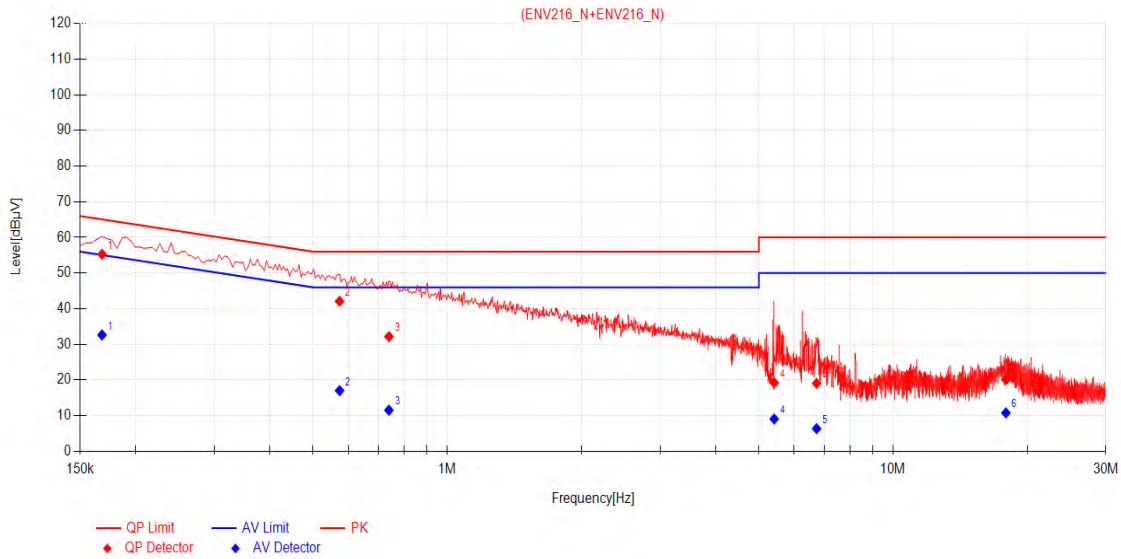
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.72	44.54	55.26	65.06	9.80	21.91	32.63	55.06	22.43	PASS
2	0.5730	10.71	31.39	42.10	56.00	13.90	6.32	17.03	46.00	28.97	PASS
3	0.7395	10.81	21.38	32.19	56.00	23.81	0.72	11.53	46.00	34.47	PASS
4	5.4105	10.62	8.62	19.24	60.00	40.76	-1.55	9.07	50.00	40.93	PASS
5	6.7380	10.53	8.53	19.06	60.00	40.94	-4.16	6.37	50.00	43.63	PASS
6	17.9160	10.49	9.61	20.10	60.00	39.90	0.28	10.77	50.00	39.23	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



Report No.: SEWM2212000308RG05
Rev.: 04
Page: 16 of 300

4.3 Duty Cycle

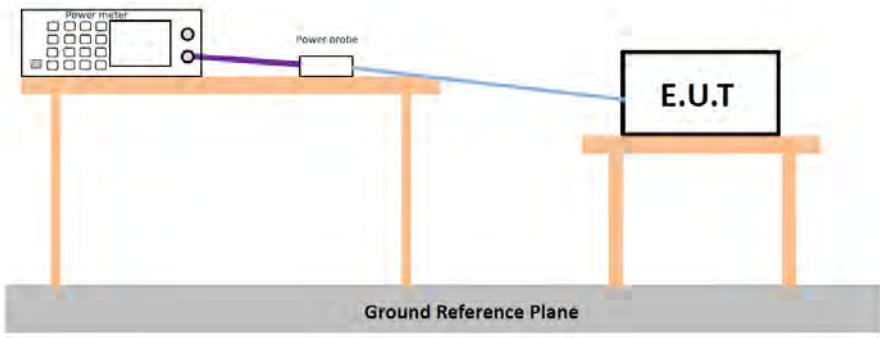
The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)(iv)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2	
Test Setup:	 <p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 12.4.1	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		



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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)(iv)	
Test Method:	ANSI C63.10: 2013 Section 12.5 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: Appendix		



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

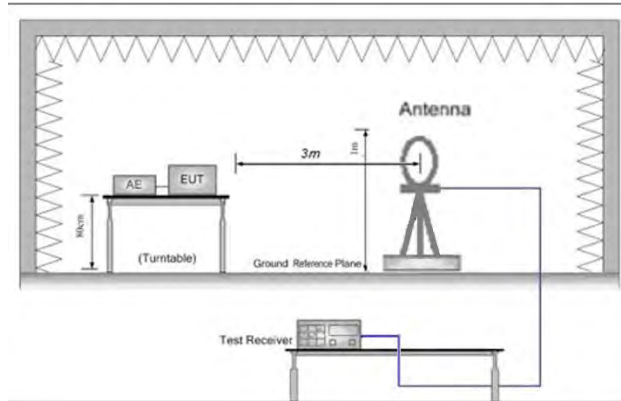


Figure 1. 9kHz to 30MHz

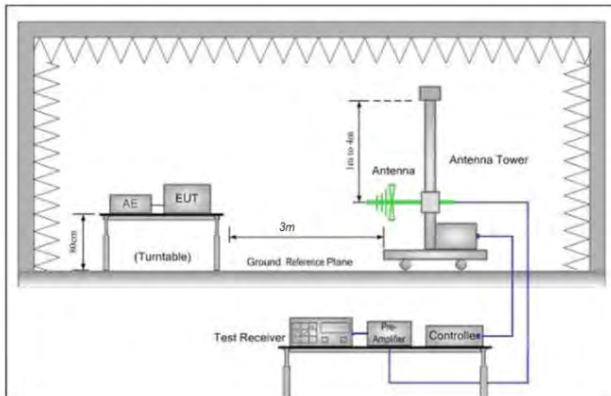


Figure 1. 30MHz to 1GHz

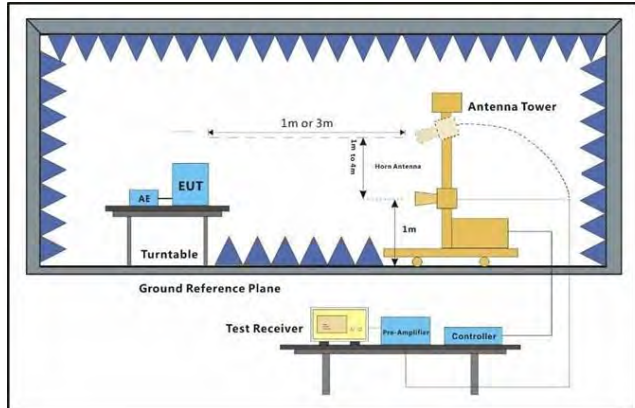


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	



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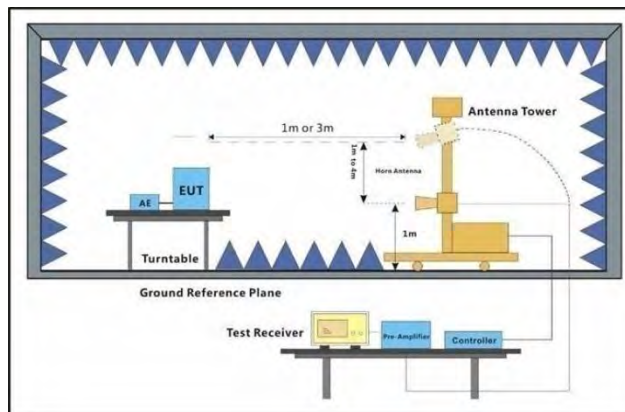
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for



	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{matrix} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \end{matrix} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					



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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%) / 4 = 80.2\%$			



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Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: **Appendix**



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18 GHz)
		± 4.77dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
				2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
				2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
				2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
				2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
				2023/02/06	2024/02/05



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CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
				2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
				2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
				2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
				2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-15	2022/02/16	2023/02/15
				2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
				2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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Report No.: SEWM2212000308RG05
Rev.: 04
Page: 35 of 300

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Rev.: 04
Page: 36 of 300

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**Emission Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict	
11a	Ant6	5180	22.36	5168.80	5191.16	Reporting only	
		5220	23.32	5208.44	5231.76		
		5240	22.92	5228.80	5251.72		
		5260	23.00	5248.76	5271.76		
		5300	23.00	5288.72	5311.72		
		5320	23.04	5308.76	5331.80		
		5500	22.20	5488.80	5511.00		
		5580	23.12	5568.68	5591.80		
		5700	22.40	5688.76	5711.16		
		5720	22.40	5708.76	5731.16		
		5720 UNII-2C	16.24	5708.76	5725		
		5720 UNII-3	6.16	5725	5731.16		
		5745	22.52	5733.80	5756.32		
		5785	22.36	5773.76	5796.12		
		5825	22.96	5813.80	5836.76		
11ac20SISO	Ant6	5180	23.48	5168.32	5191.80		
		5220	22.96	5208.72	5231.68		
		5240	23.80	5228.00	5251.80		
		5260	24.00	5247.76	5271.76		
		5300	23.64	5288.12	5311.76		
		5320	24.00	5308.00	5332.00		
		5500	23.48	5488.24	5511.72		
		5580	23.88	5567.96	5591.84		
		5700	23.64	5688.36	5712.00		
		5720	24.48	5707.36	5731.84		
		5720 UNII-2C	17.64	5707.36	5725		
		5720 UNII-3	6.84	5725	5731.84		
		5745	23.72	5733.08	5756.80		
		5785	23.60	5773.24	5796.84		
		5825	23.56	5813.32	5836.88		
11ac40SISO	Ant6	5190	41.20	5169.44	5210.64		
		5230	41.92	5208.88	5250.80		
		5270	42.16	5248.80	5290.96		
		5310	41.76	5289.04	5330.80		
		5510	41.68	5489.28	5530.96		
		5550	41.60	5529.12	5570.72		
		5670	41.36	5649.36	5690.72		
		5710	41.76	5688.96	5730.72		
		5710 UNII-2C	36.04	5688.96	5725		
		5710 UNII-3	5.72	5725	5730.72		
		5755	41.68	5734.04	5775.72		
		5795	41.60	5774.20	5815.80		
		11ac80SISO	Ant6	5210	84.80	5167.12	5251.92
				5290	84.48	5247.76	5332.24
				5530	84.32	5487.92	5572.24
5610	84.32			5567.92	5652.24		
5690	84.64			5647.60	5732.24		
5690 UNII-2C	77.4			5647.60	5725		
5690 UNII-3	7.24			5725	5732.24		
5775	84.48			5732.60	5817.08		



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Rev.: 04
Page: 38 of 300

Remark:

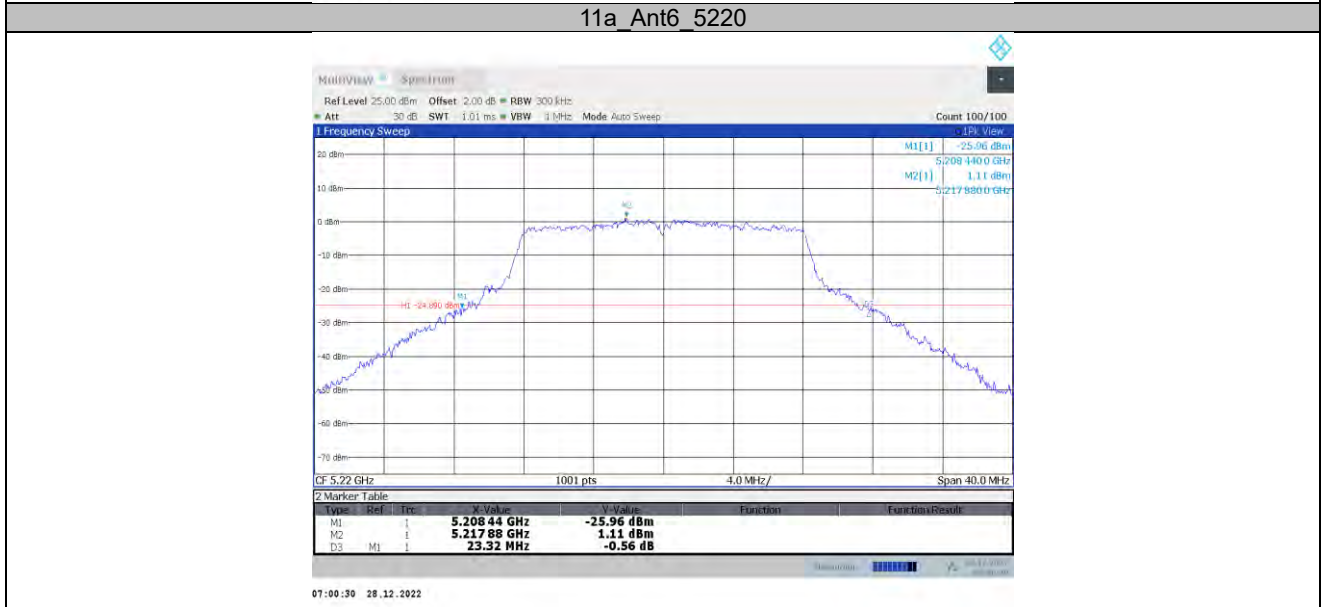
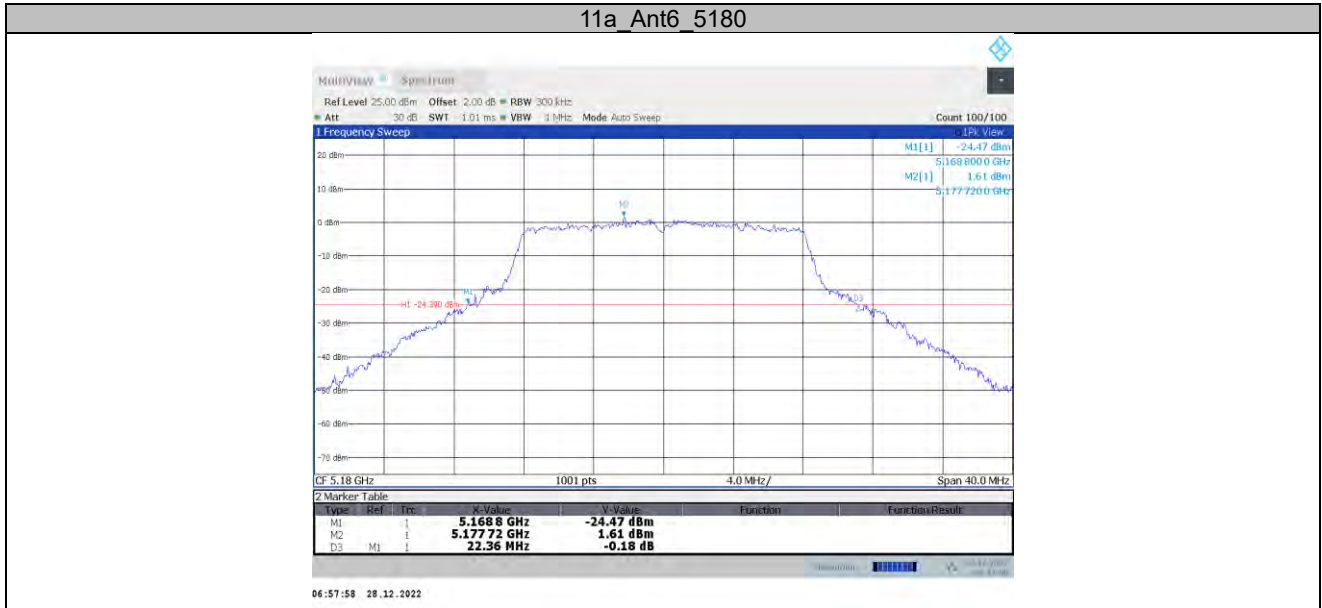
For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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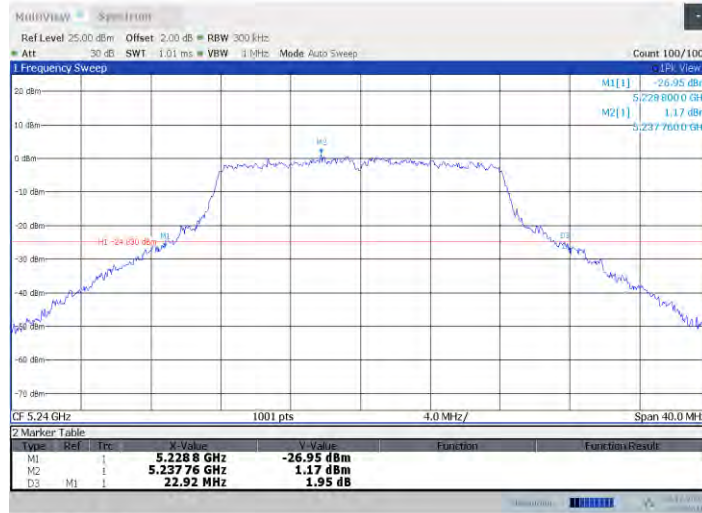
Test Graphs



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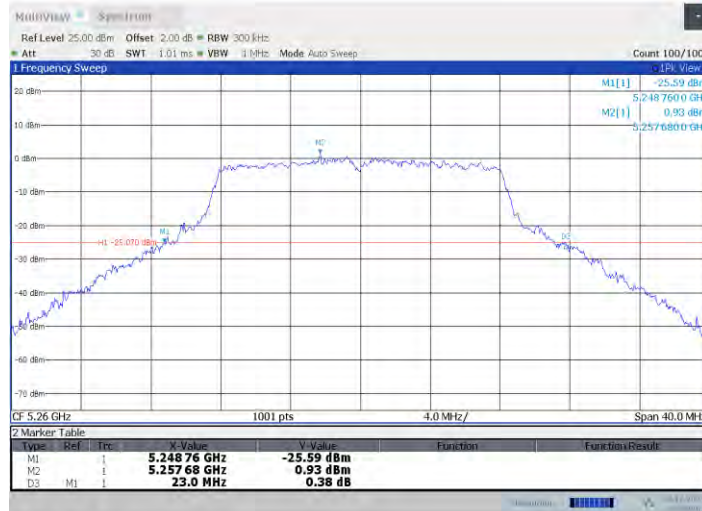
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11a_Ant6_5260



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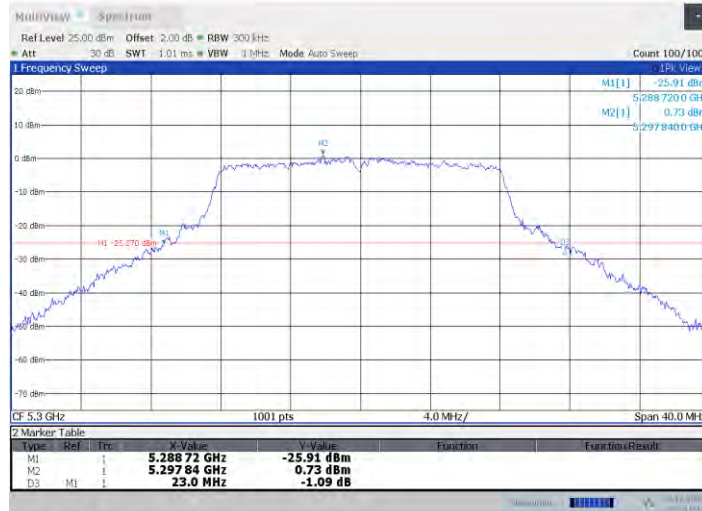


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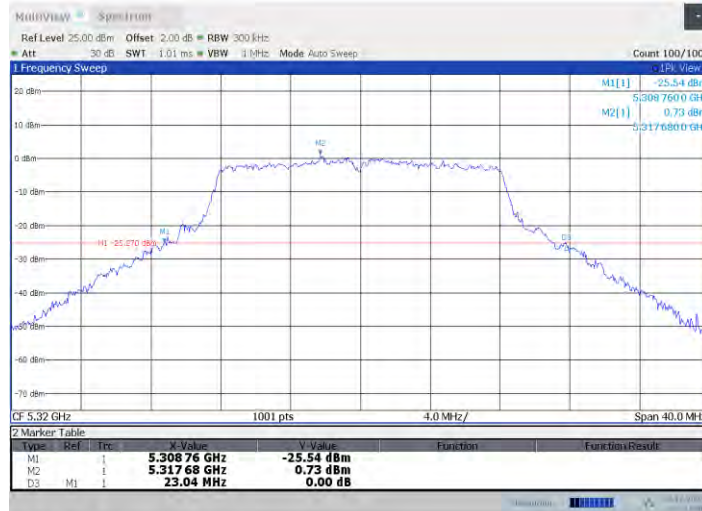
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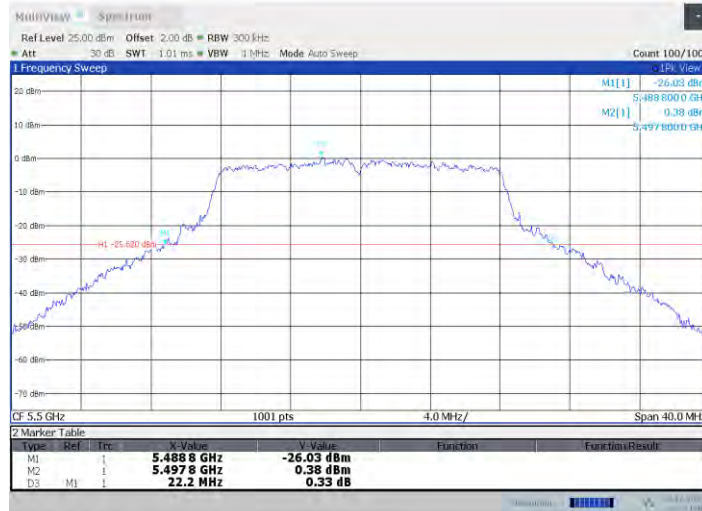


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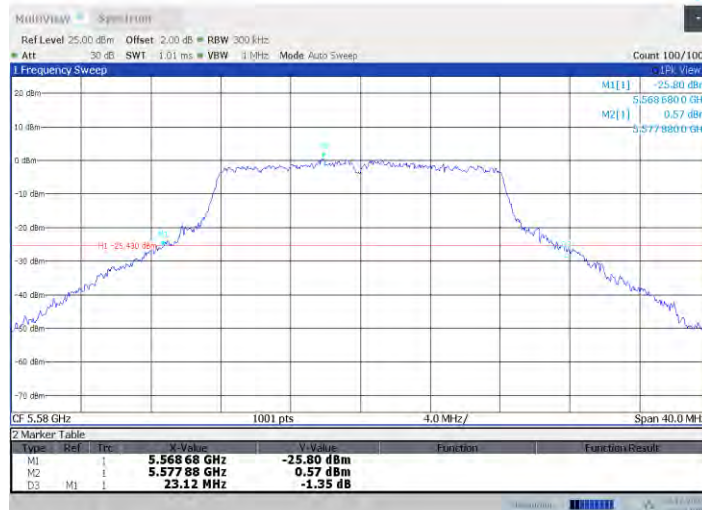
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11a Ant6 5500



07:14:47 28.12.2022

11a Ant6 5580

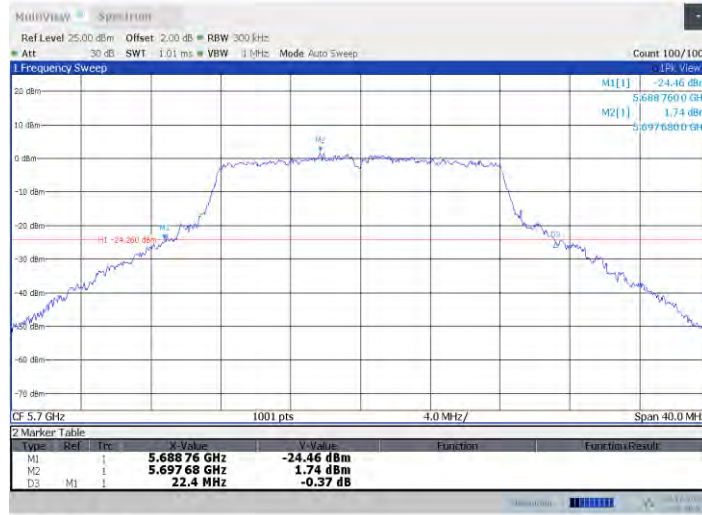


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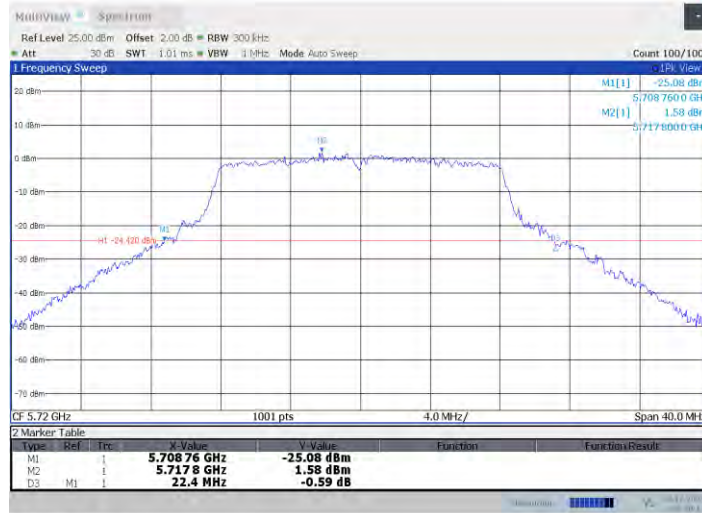
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11a_Ant6_5700



07:18:58 28.12.2022

11a_Ant6_5720



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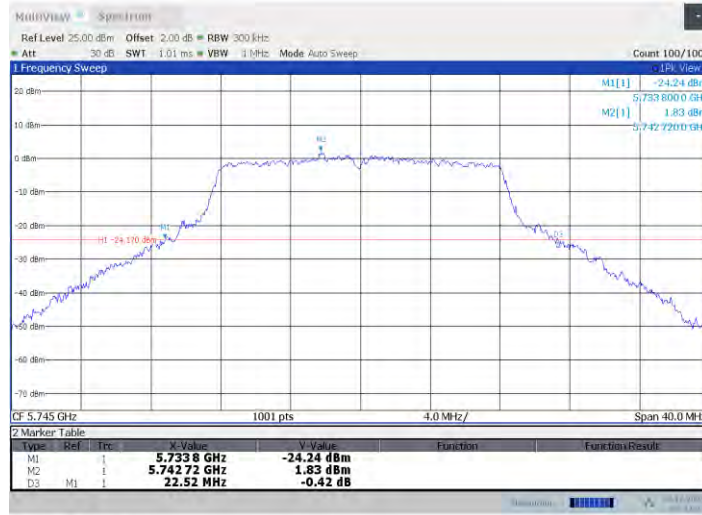


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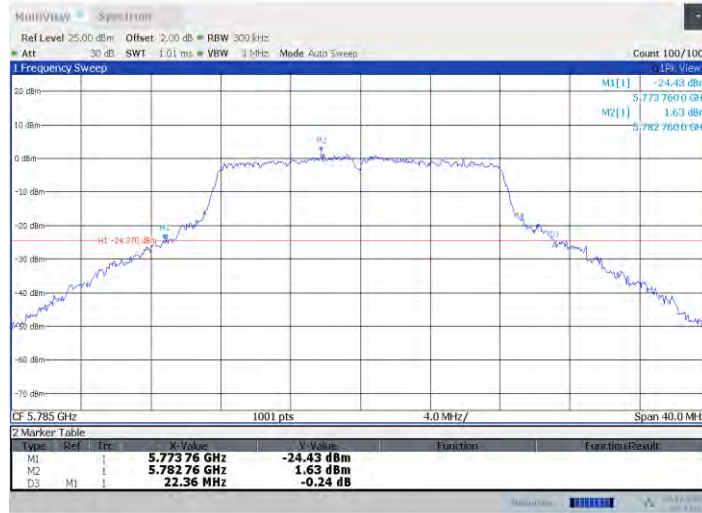
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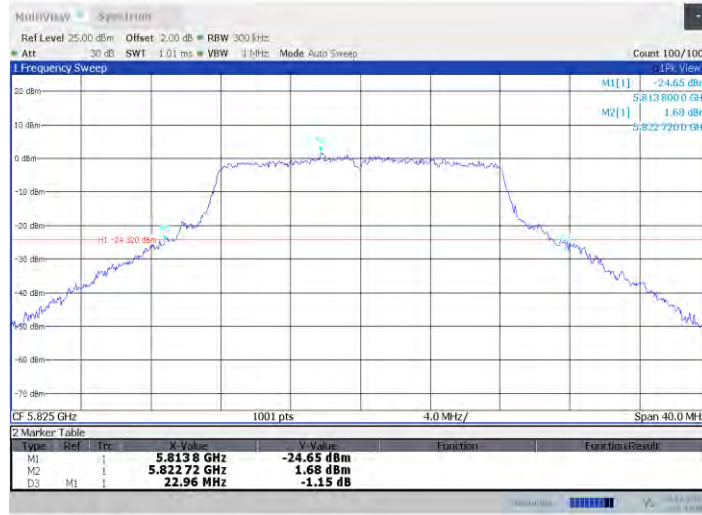


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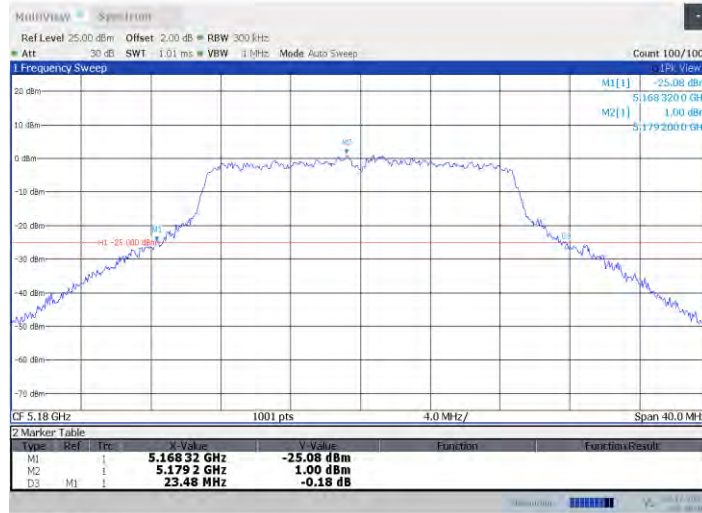
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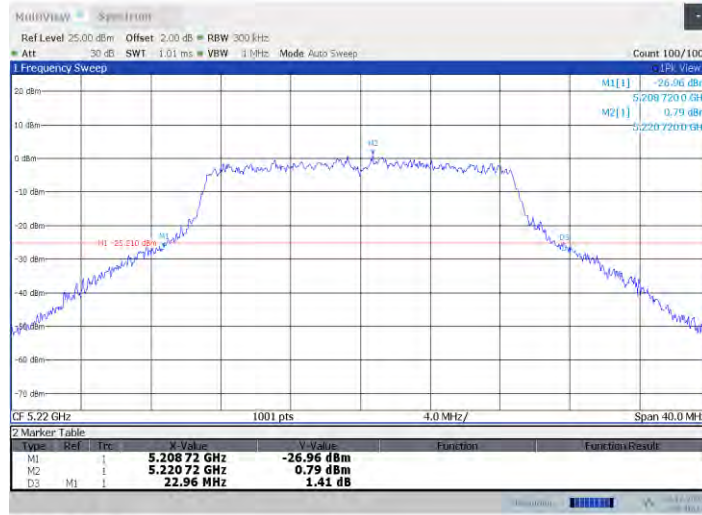


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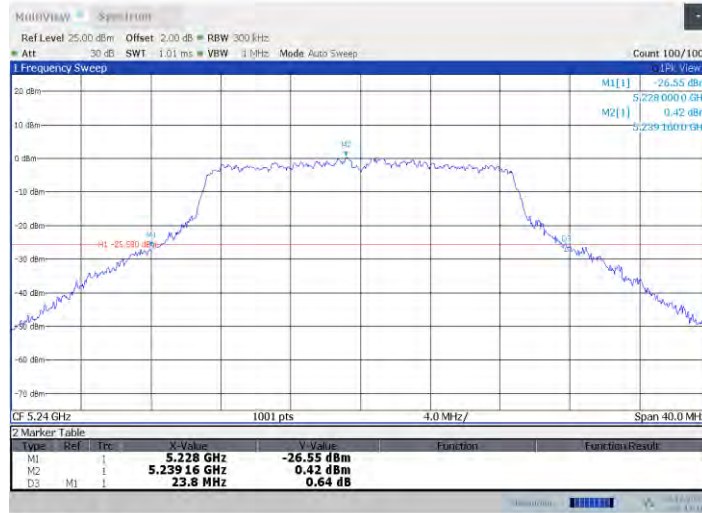
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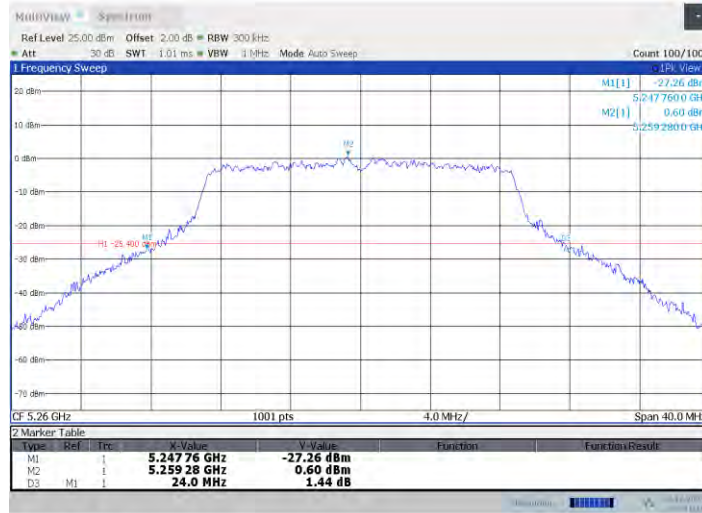


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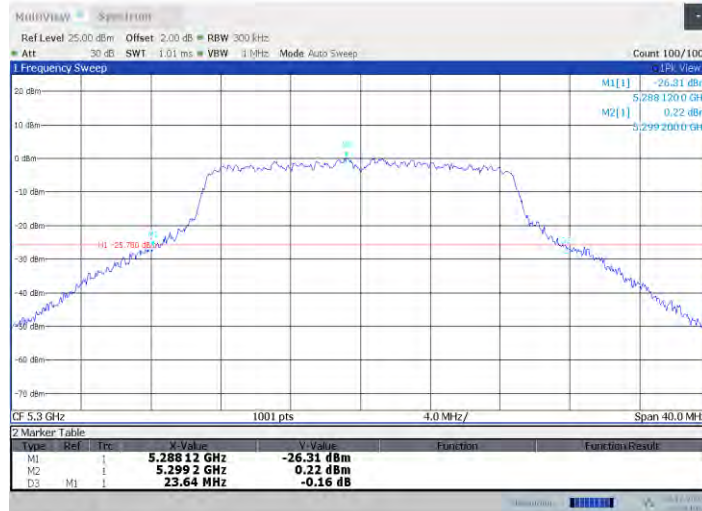
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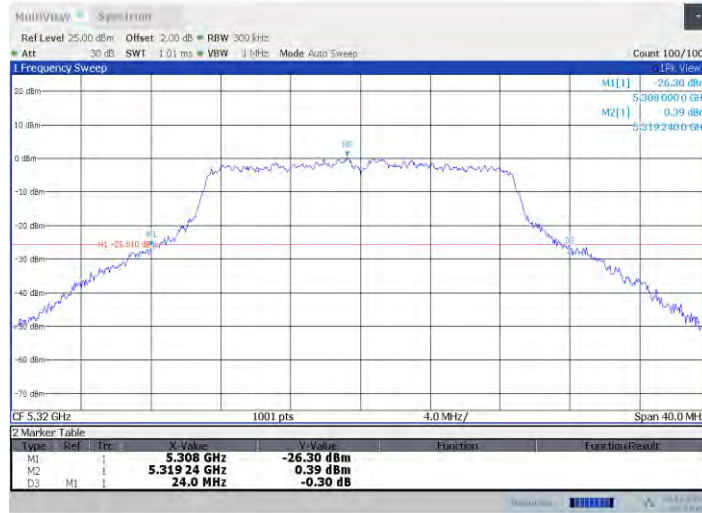


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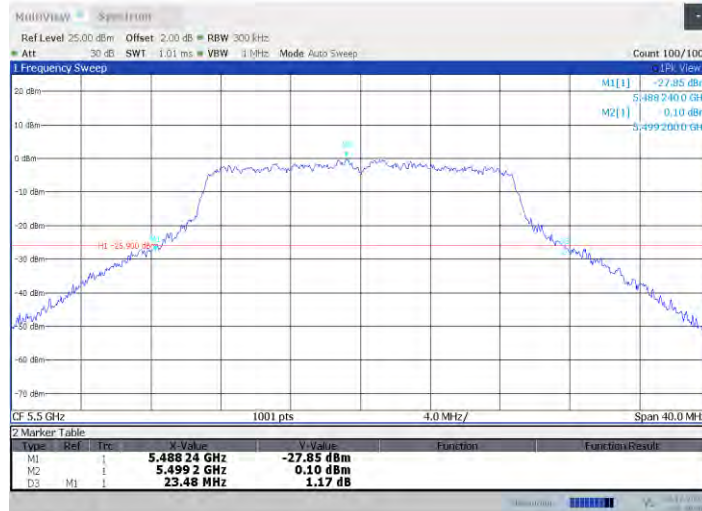
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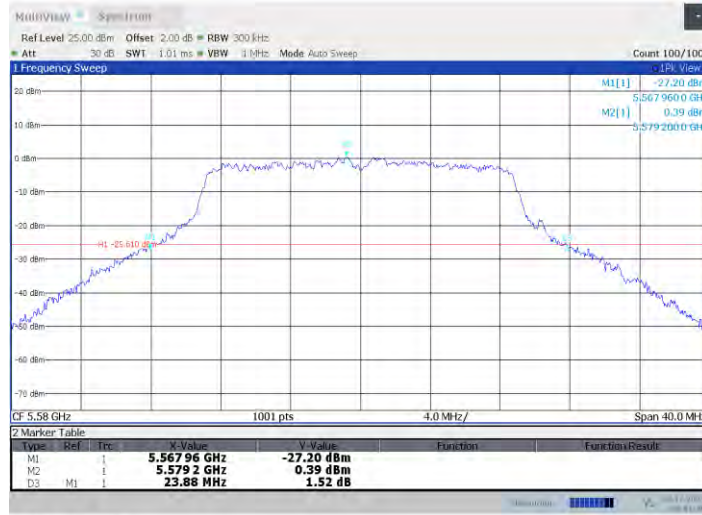


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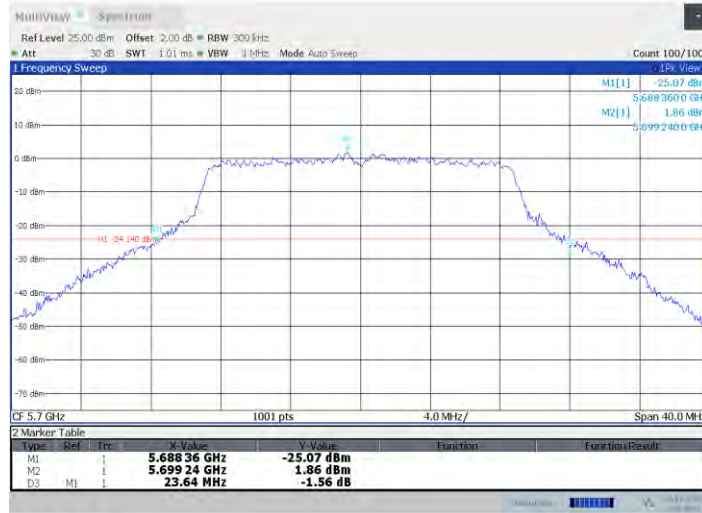
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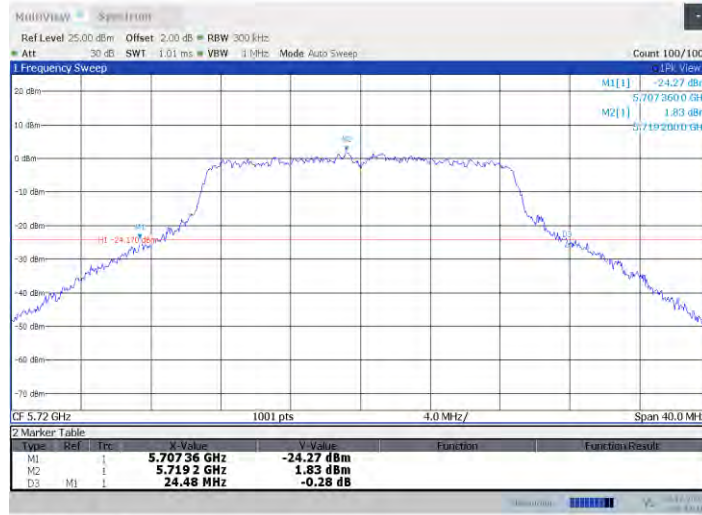


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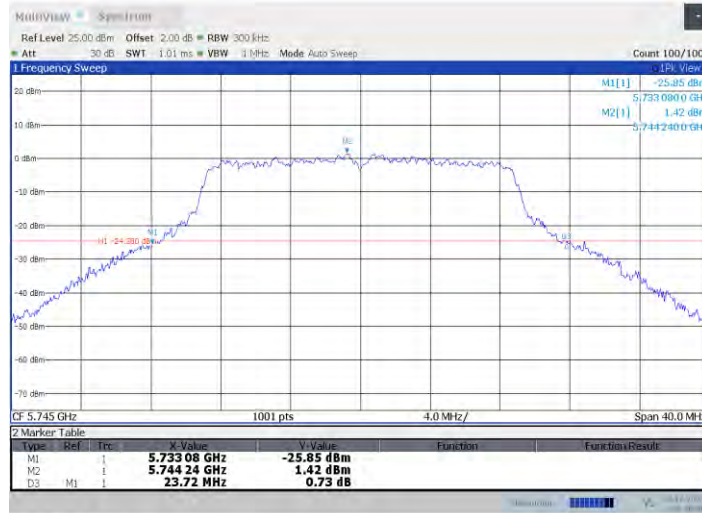
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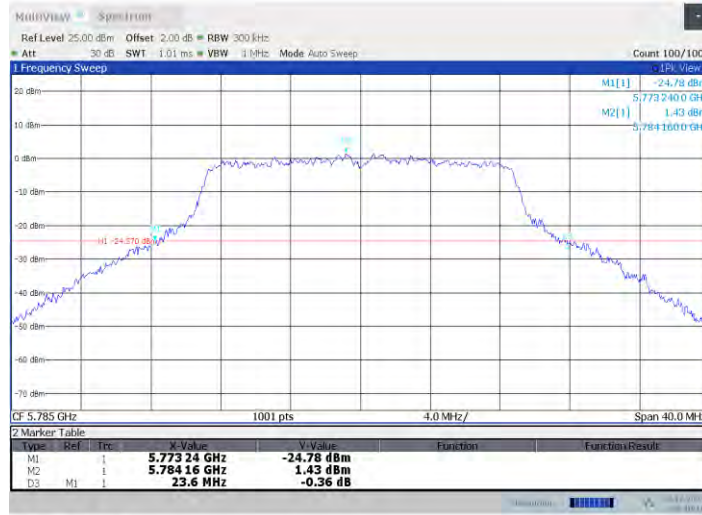


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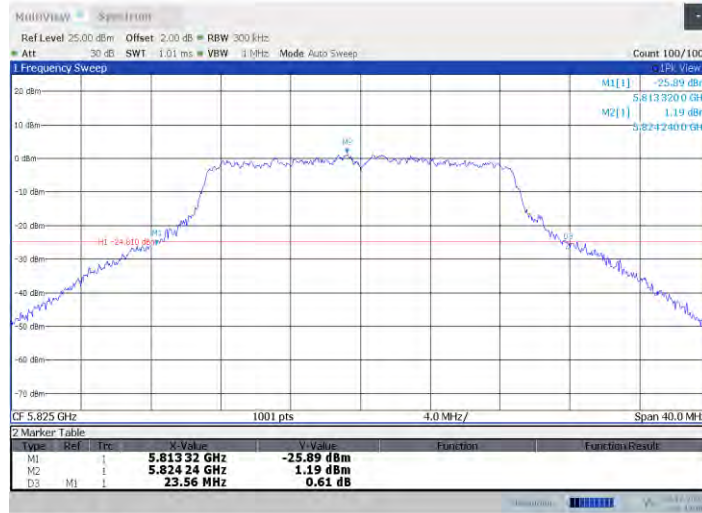
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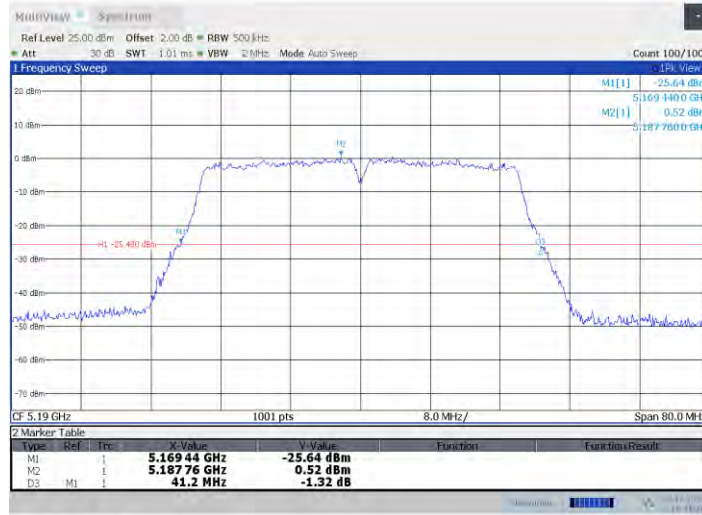


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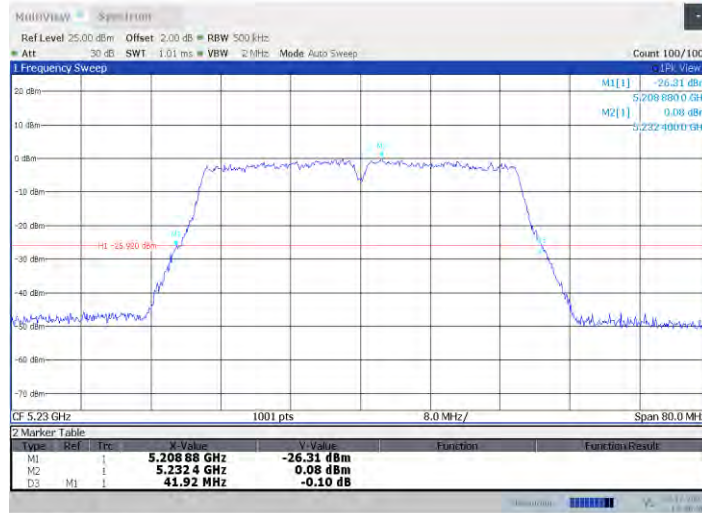
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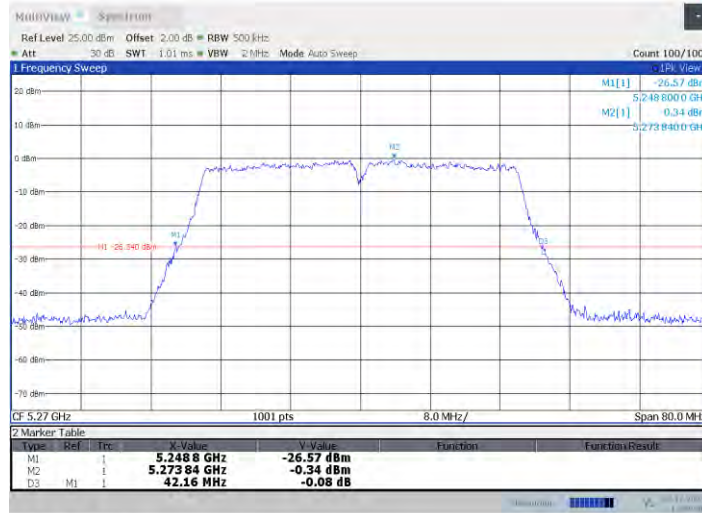


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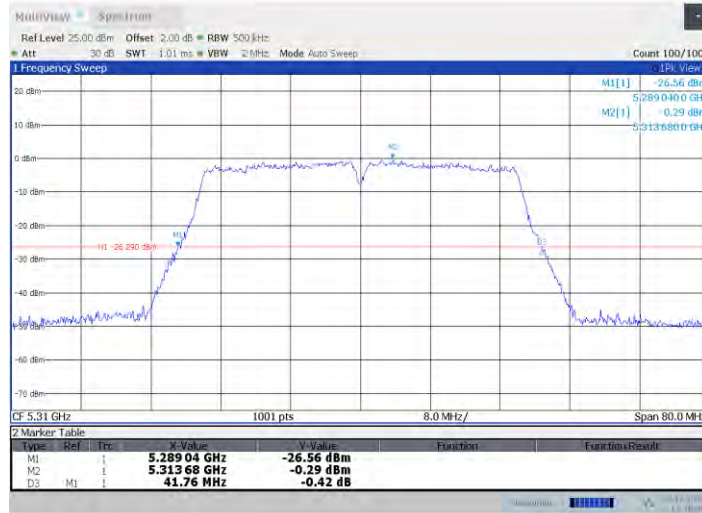
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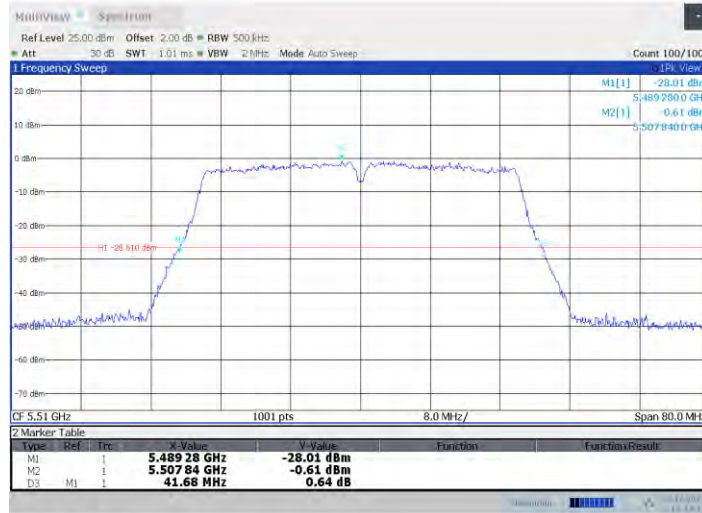


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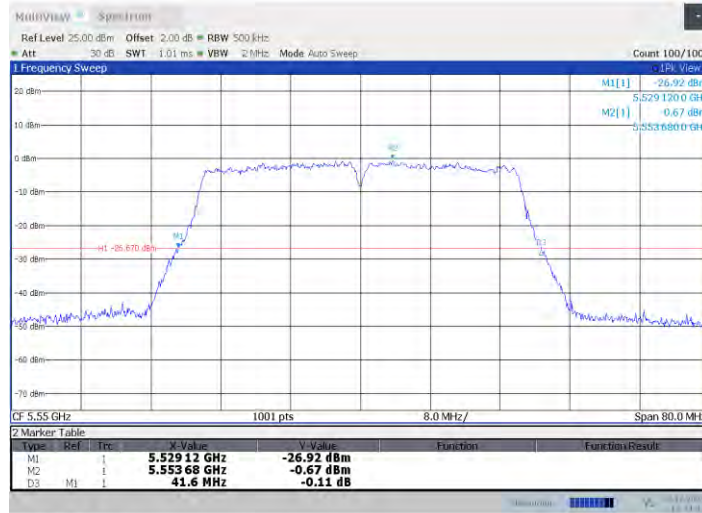
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11:13:43 28.12.2022

11ac40SISO_Ant6_5550



11:14:42 28.12.2022

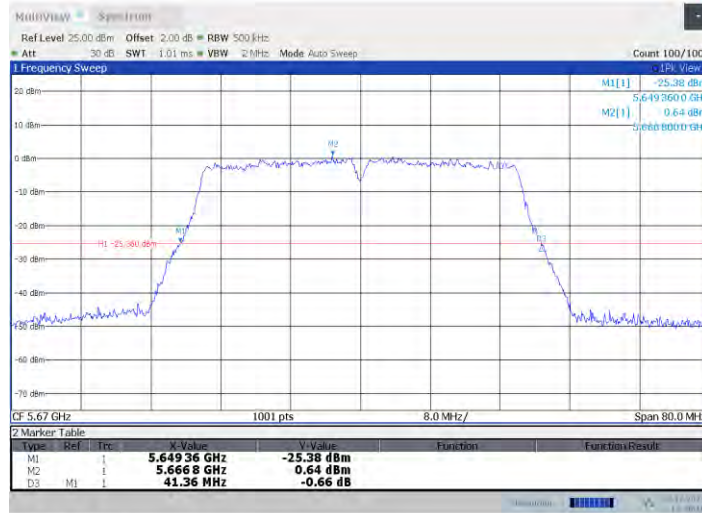


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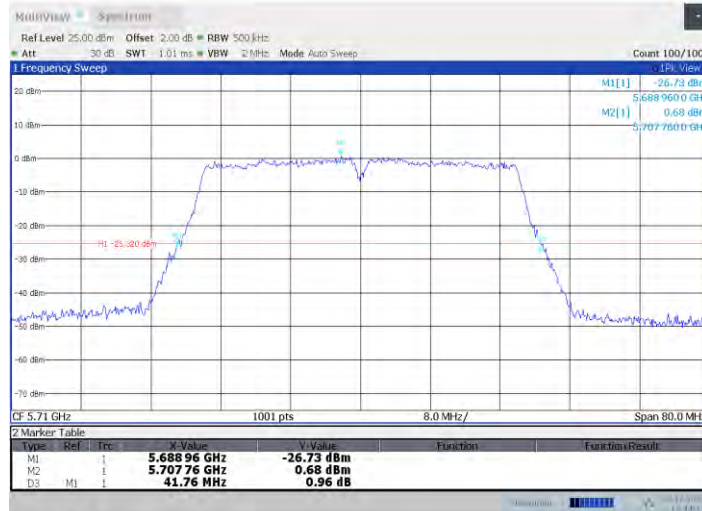
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11:26:19 28.12.2022

11ac40SISO_Ant6_5710



11:44:17 28.12.2022

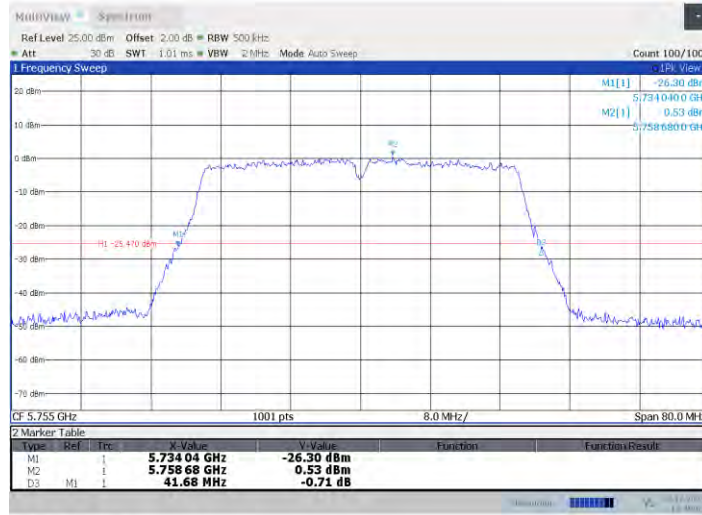


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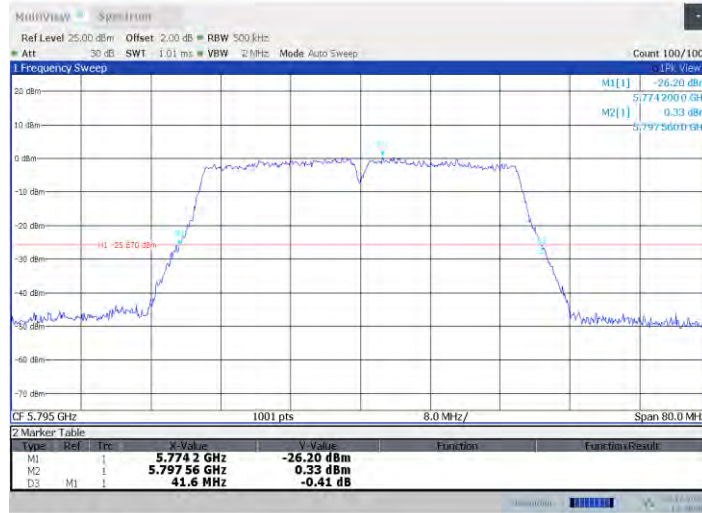
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11ac40SISO_Ant6_5755



11:49:03 28.12.2022

11ac40SISO_Ant6_5795



11:50:39 28.12.2022



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12:33:52 28.12.2022

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12:36:56 28.12.2022

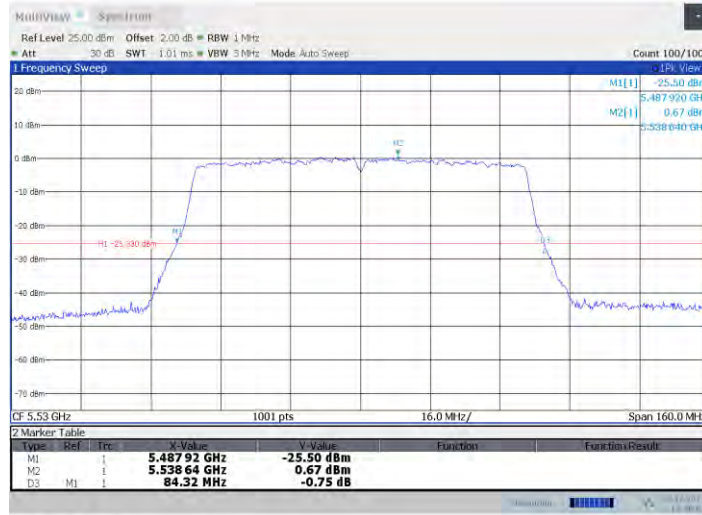


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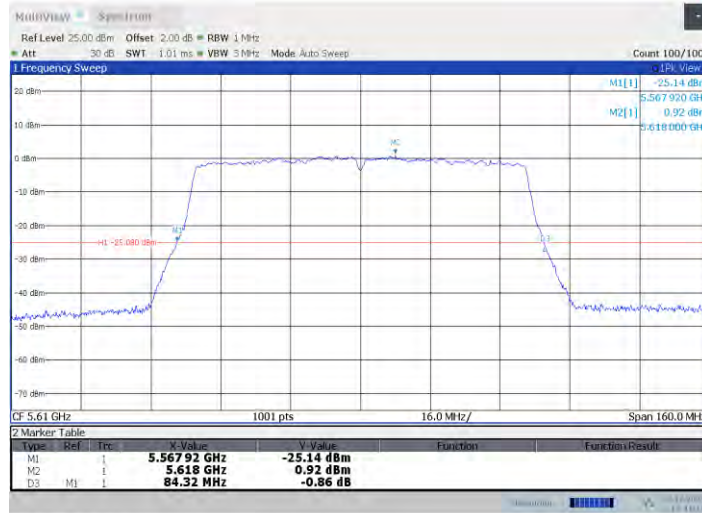
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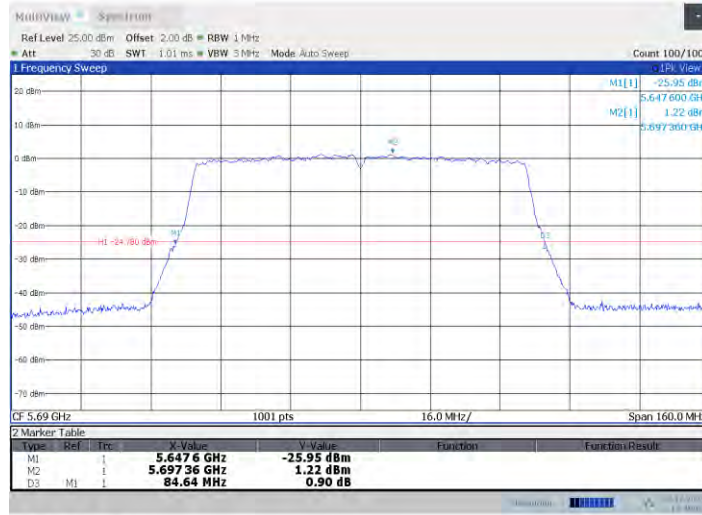
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11ac80SISO_Ant6_5690



12:49:03 28.12.2022

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12:51:26 28.12.2022



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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict			
11a	Ant6	5180	17.037	5171.469	5188.506	Reporting only			
		5220	17.011	5211.480	5228.490				
		5240	17.069	5231.453	5248.522				
		5260	17.059	5251.443	5268.502				
		5300	17.049	5291.439	5308.488				
		5320	17.085	5311.420	5328.505				
		5500	17.044	5491.426	5508.470				
		5580	17.078	5571.439	5588.516				
		5700	17.063	5691.444	5708.507				
		5720	17.05	5711.441	5728.491				
		5720 UNII-2C	13.559	5711.441	5725				
		5720 UNII-3	3.491	5725	5728.491				
		5745	17.062	5736.436	5753.498				
		5785	17.104	5776.436	5793.540				
		5825	17.092	5816.447	5833.538				
11ac20SISO	Ant6	5180	18.238	5170.910	5189.148	Reporting only			
		5220	18.215	5210.919	5229.134				
		5240	18.189	5230.920	5249.109				
		5260	18.205	5250.894	5269.099				
		5300	18.229	5290.902	5309.131				
		5320	18.236	5310.870	5329.107				
		5500	18.254	5490.868	5509.123				
		5580	18.233	5570.881	5589.114				
		5700	18.224	5690.897	5709.121				
		5720	18.242	5710.892	5729.134				
		5720 UNII-2C	14.108	5710.892	5725				
		5720 UNII-3	4.134	5725	5729.134				
		5745	18.242	5735.888	5754.130				
		5785	18.221	5775.894	5794.115				
		5825	18.239	5815.892	5834.132				
11ac40SISO	Ant6	5190	36.532	5171.761	5208.293	Reporting only			
		5230	36.532	5211.758	5248.289				
		5270	36.544	5251.757	5288.301				
		5310	36.522	5291.766	5328.287				
		5510	36.519	5491.759	5528.278				
		5550	36.539	5531.758	5568.296				
		5670	36.509	5651.767	5688.276				
		5710	36.631	5691.695	5728.327				
		5710 UNII-2C	33.305	5691.695	5725				
		5710 UNII-3	3.327	5725	5728.327				
		5755	36.535	5736.750	5773.286				
		5795	36.497	5776.769	5813.267				
		11ac80SISO	Ant6	5210	75.771		5171.860	5247.631	Reporting only
				5290	75.879		5252.112	5327.991	
				5530	75.823		5492.117	5567.940	
5610	75.787			5572.148	5647.935				
5690	75.805			5652.158	5727.963				
5690 UNII-2C	72.842			5652.158	5725				
5690 UNII-3	2.963			5725	5727.963				
5775	75.794			5737.080	5812.875				



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Report No.: SEWM2212000308RG05
Rev.: 04
Page: 61 of 300

Remark:

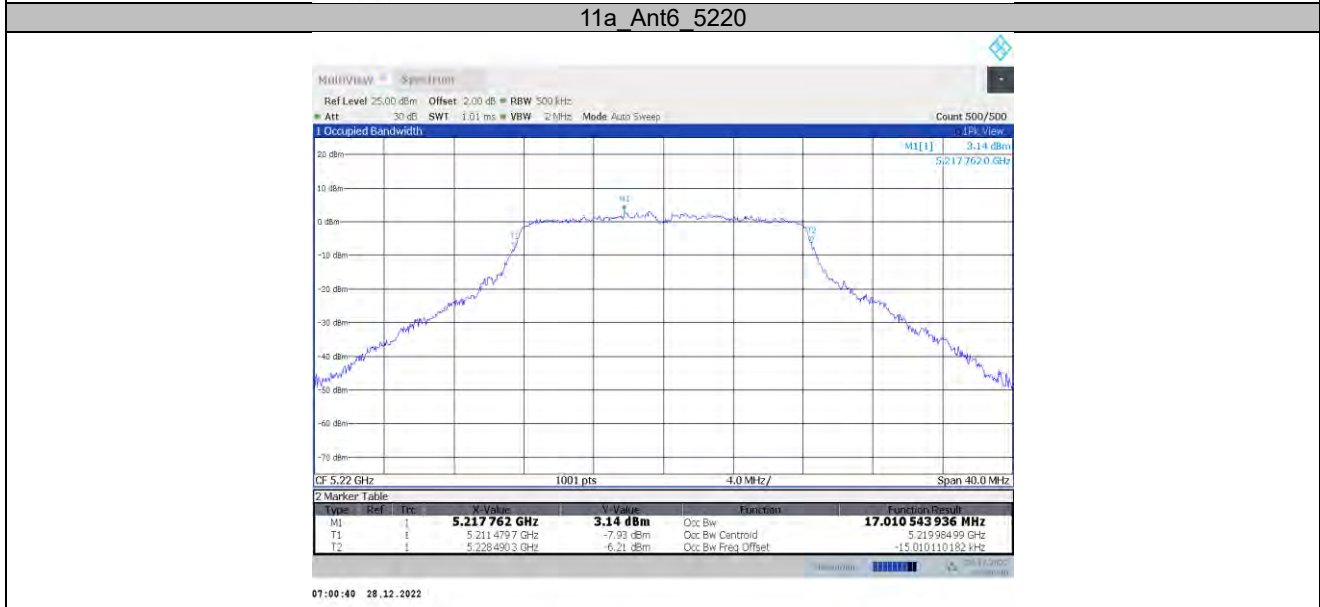
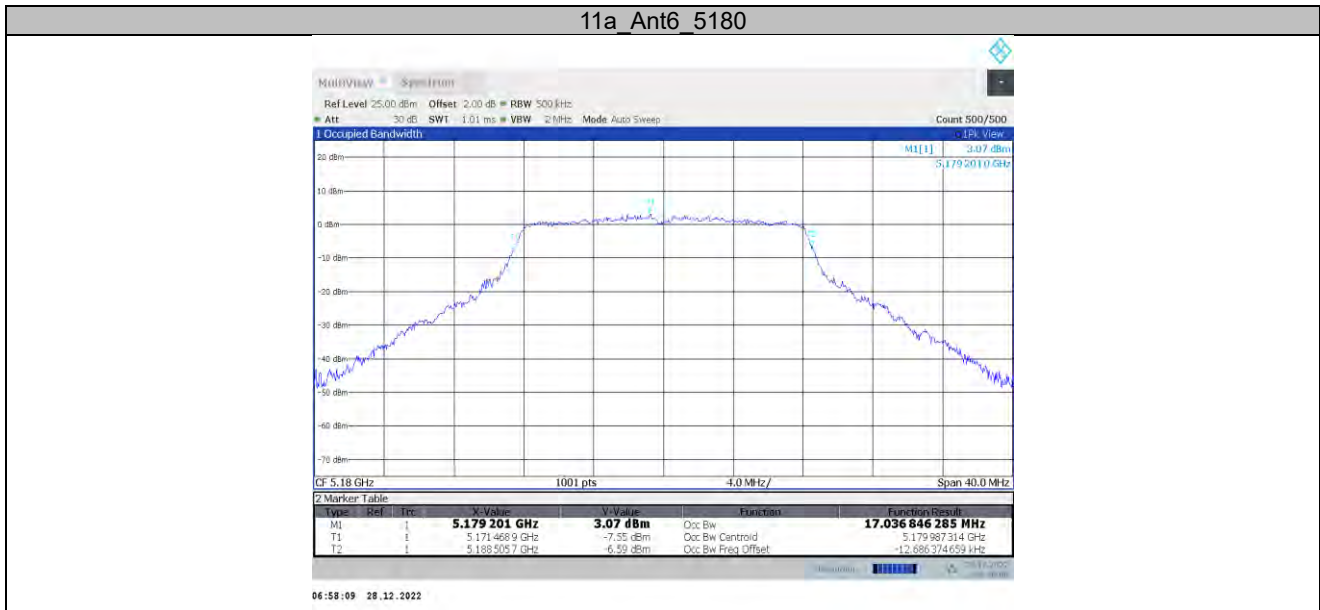
For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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Test Graphs

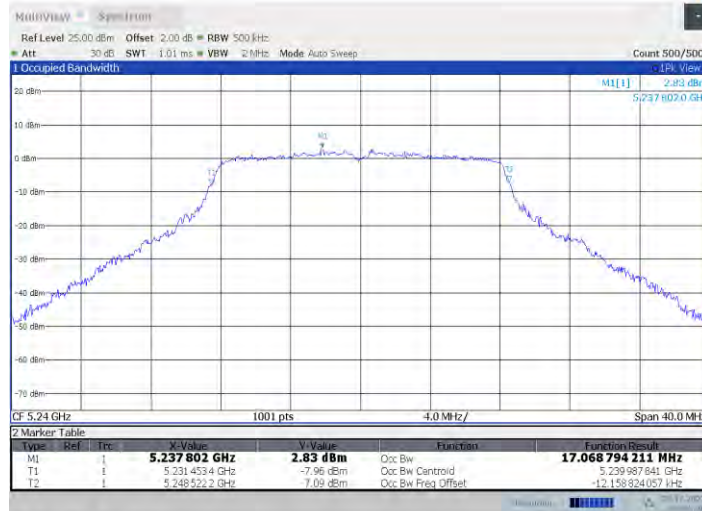


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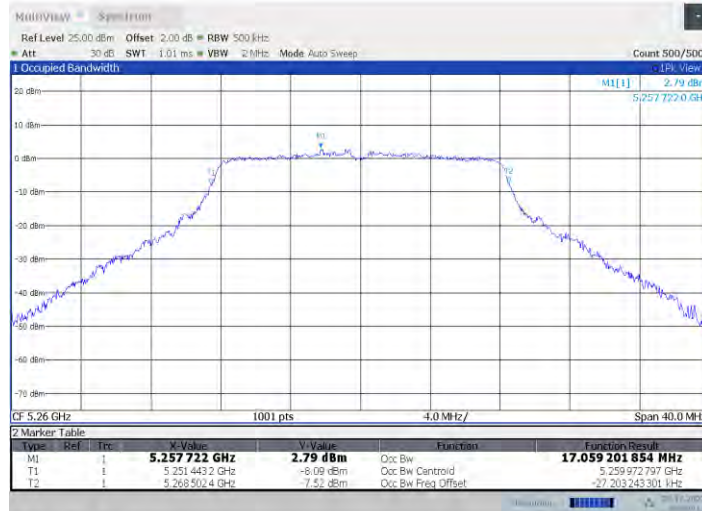
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11a Ant6 5240



07:05:29 28.12.2022

11a Ant6 5260



07:09:13 28.12.2022

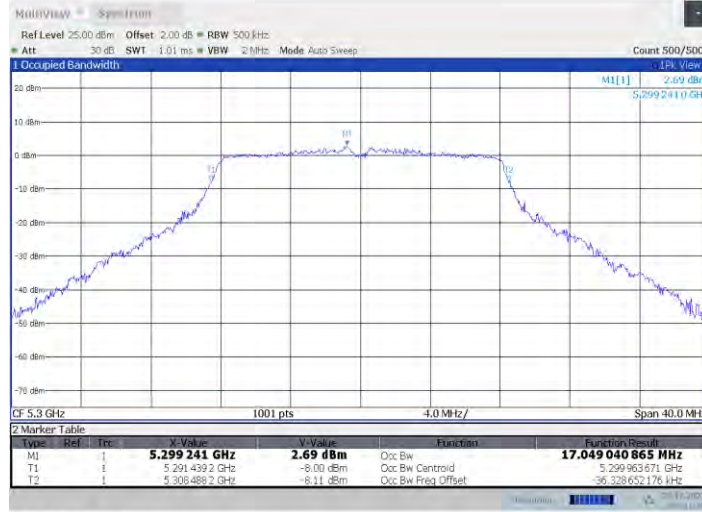


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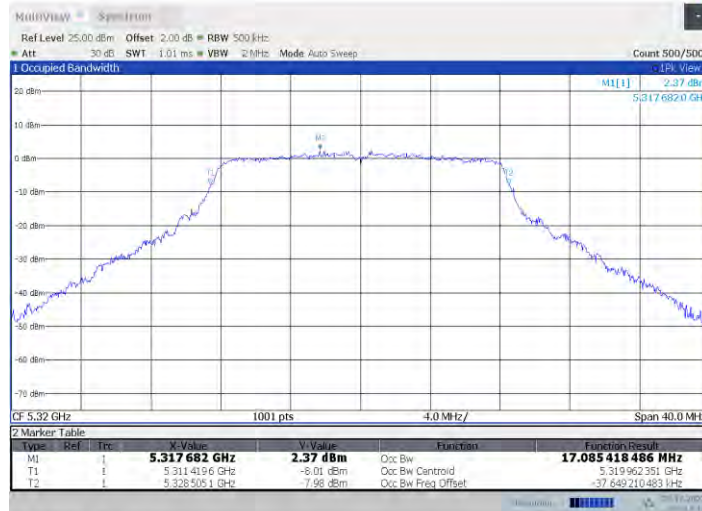
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11a Ant6 5300



07:11:56 28.12.2022

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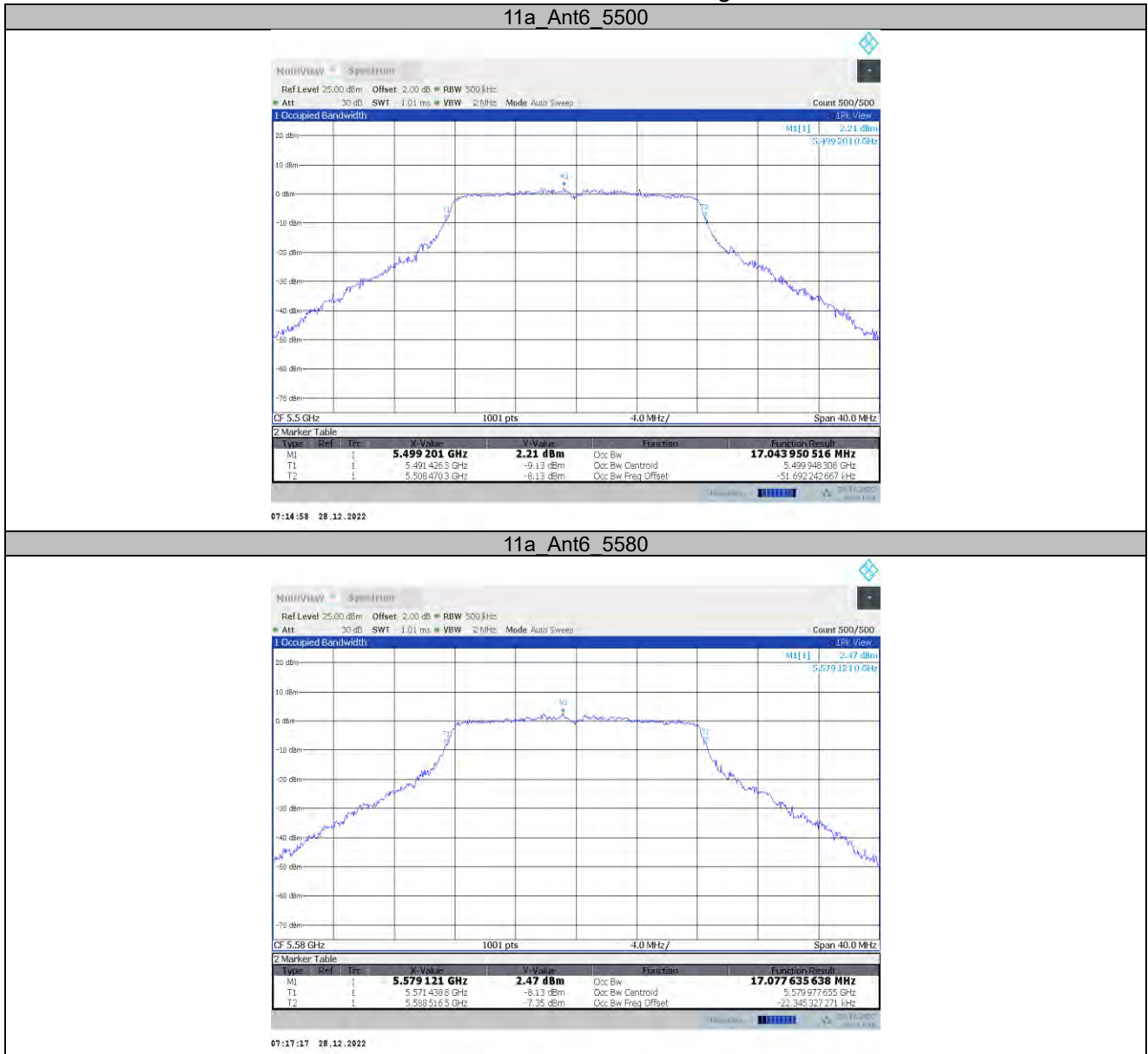
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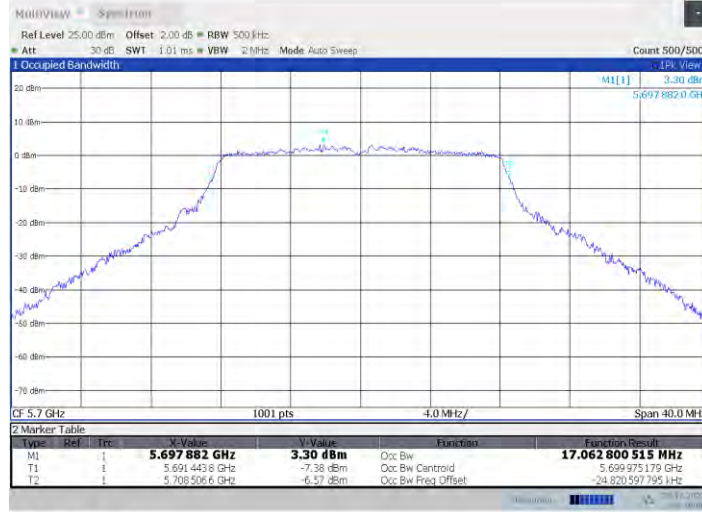


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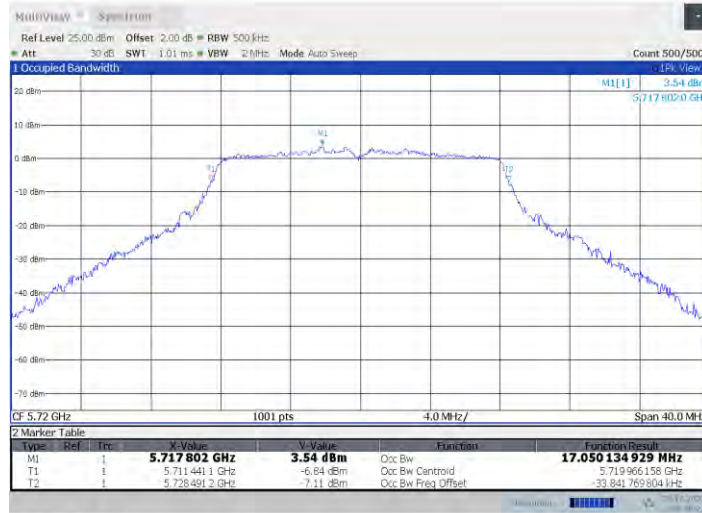
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11a_Ant6_5720



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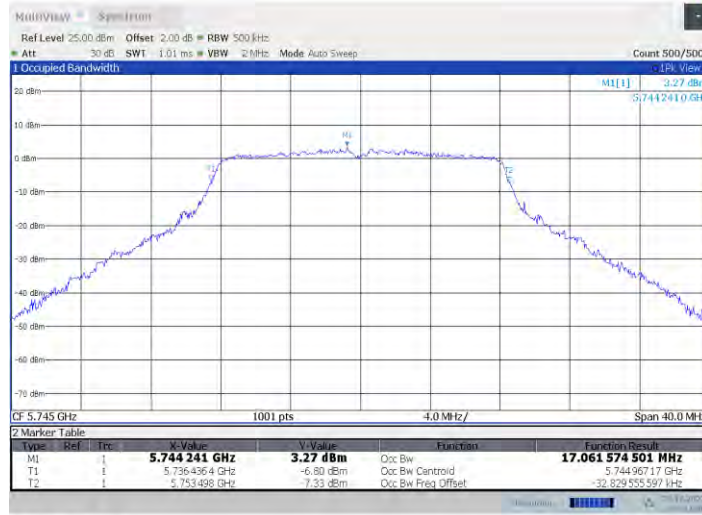


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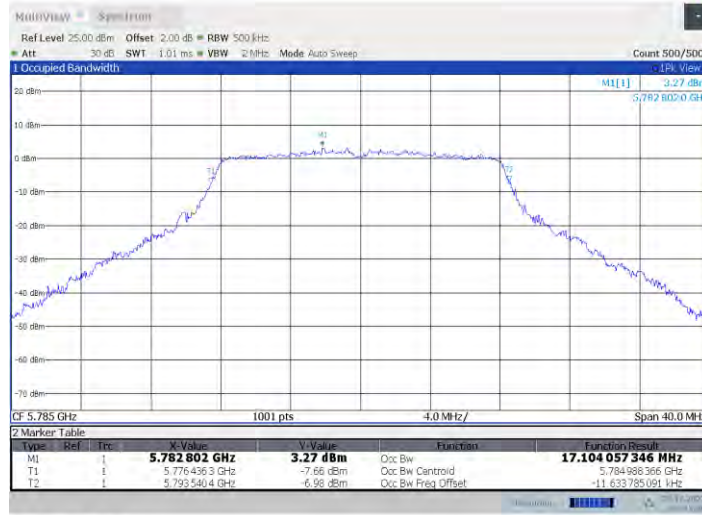
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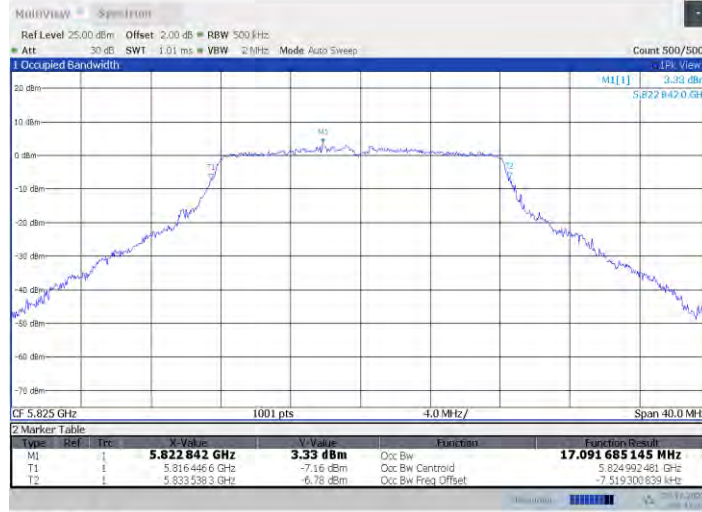


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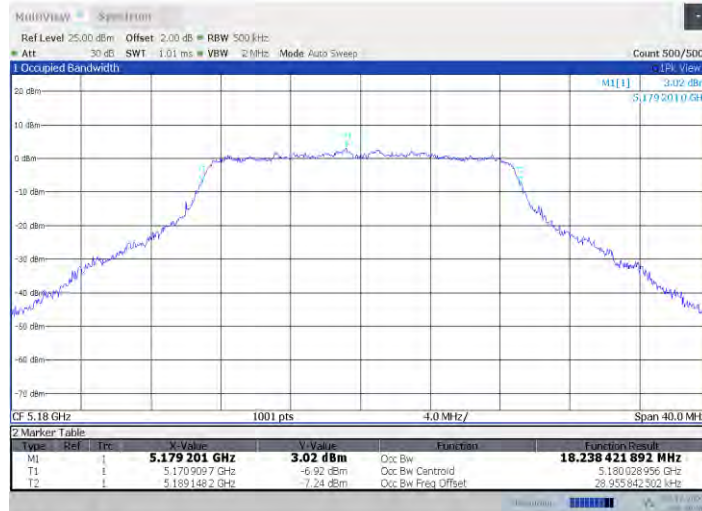
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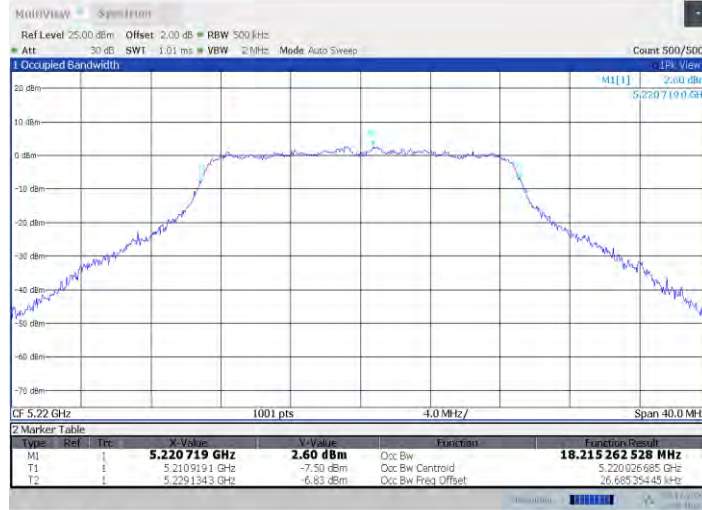


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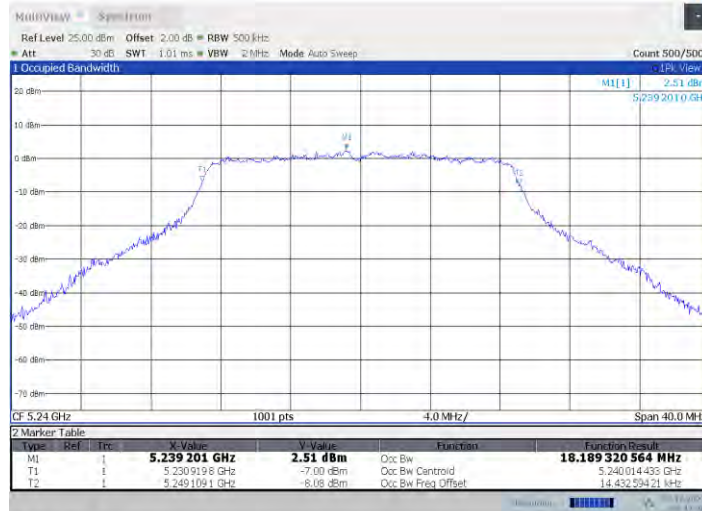
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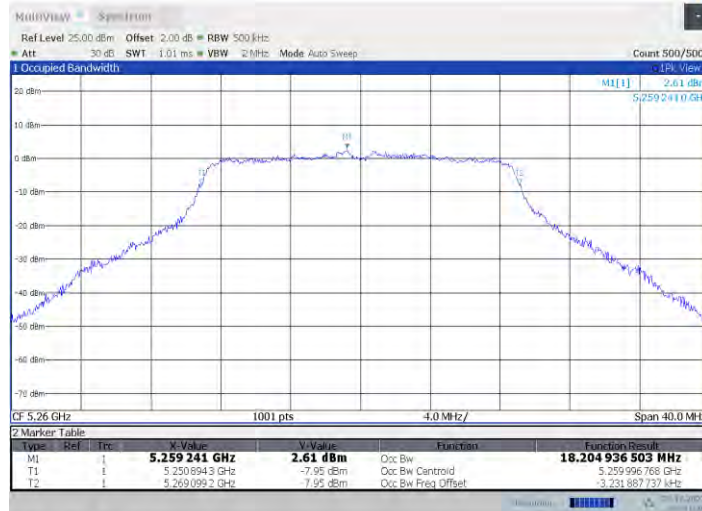


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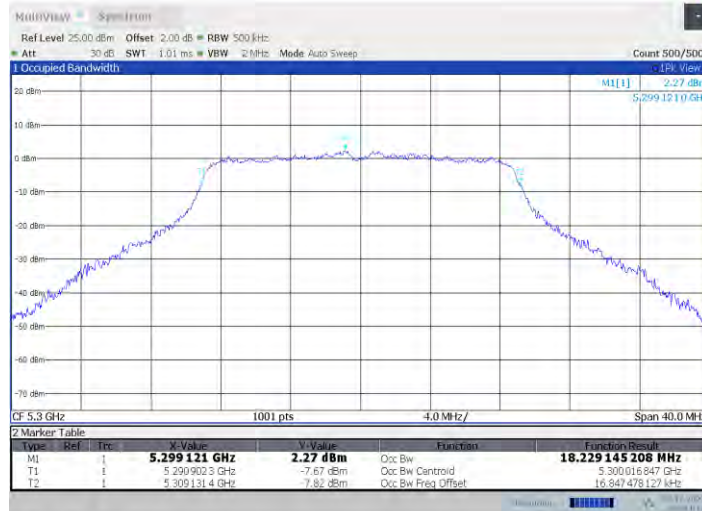
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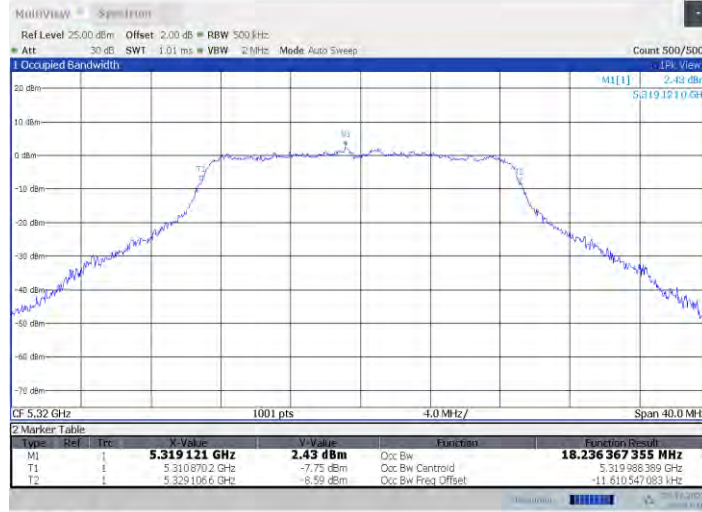
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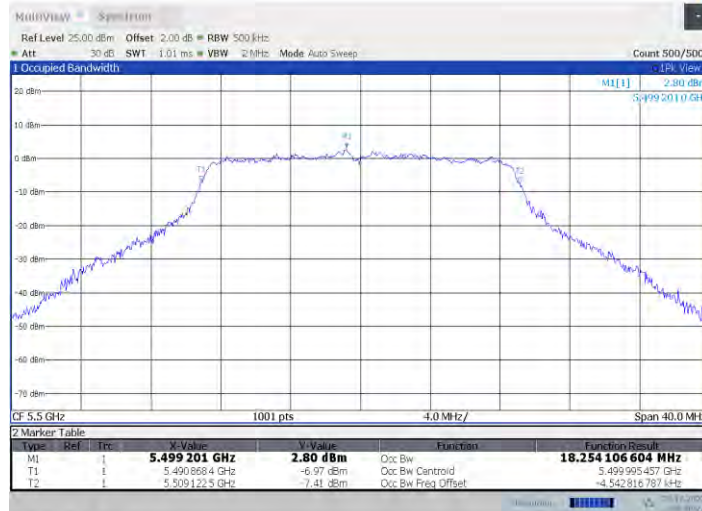
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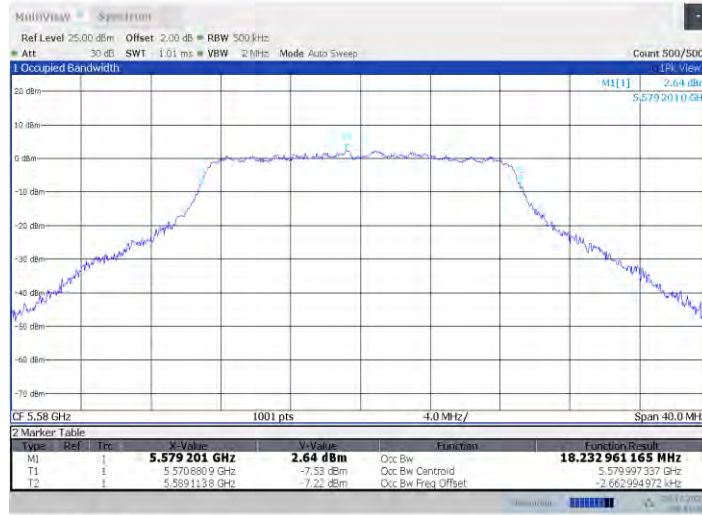
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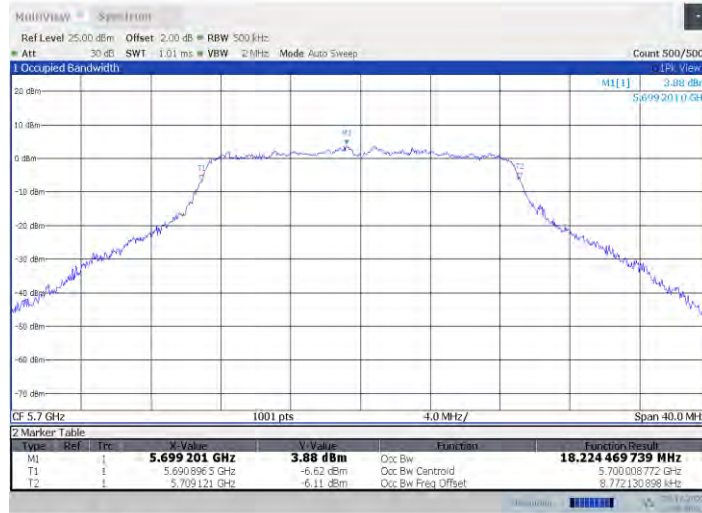
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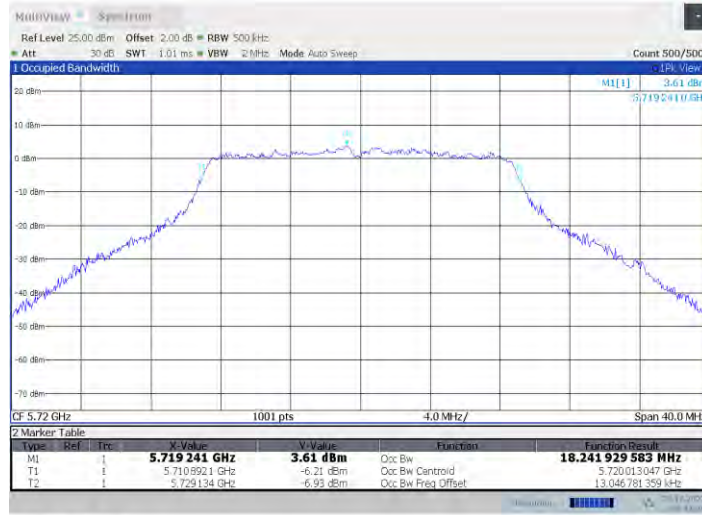


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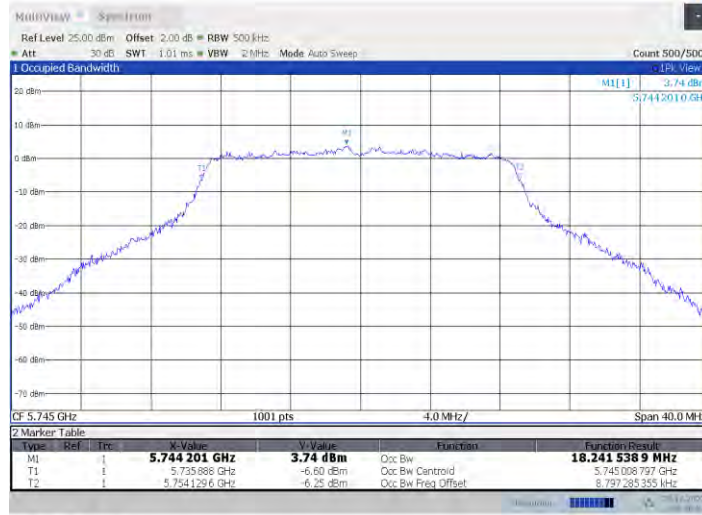
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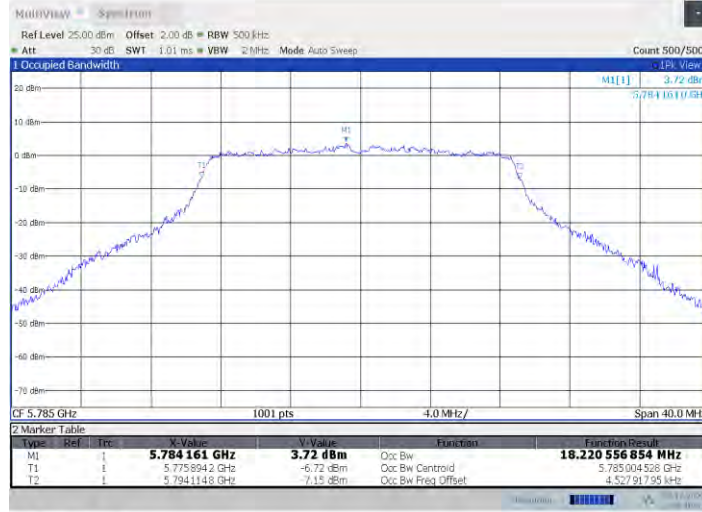
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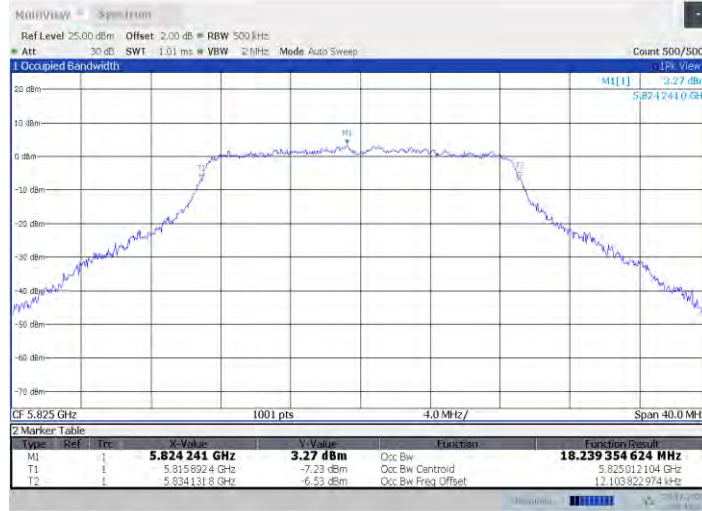
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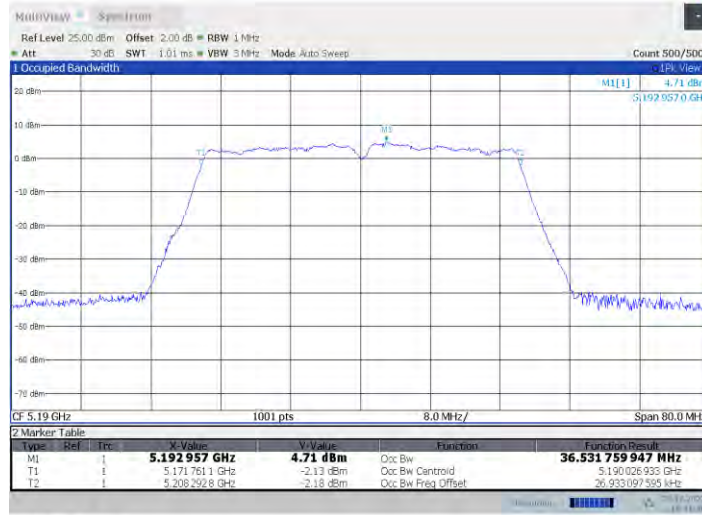
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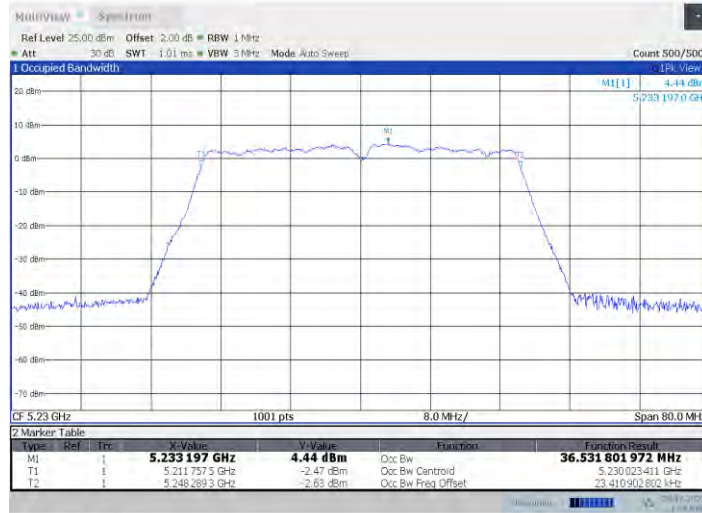
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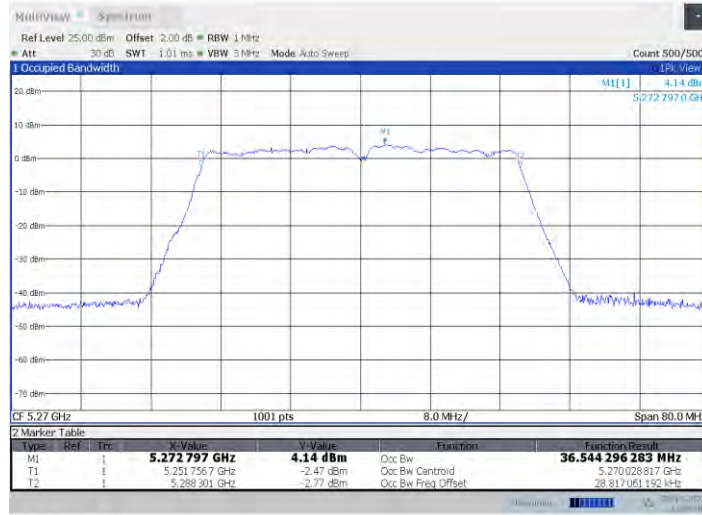


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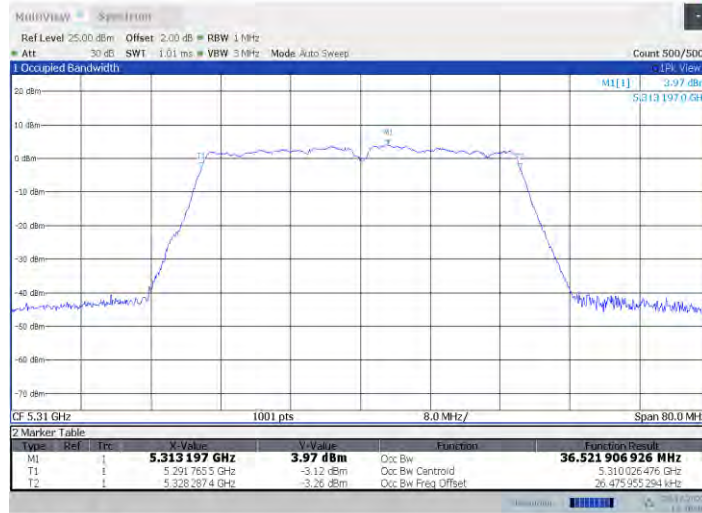
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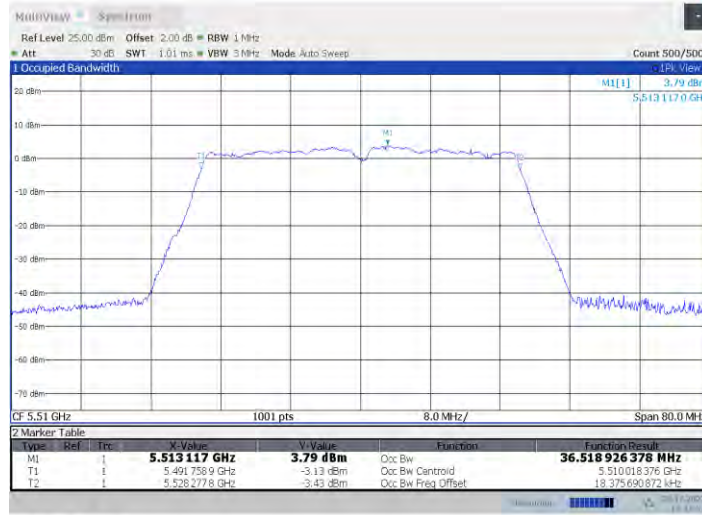


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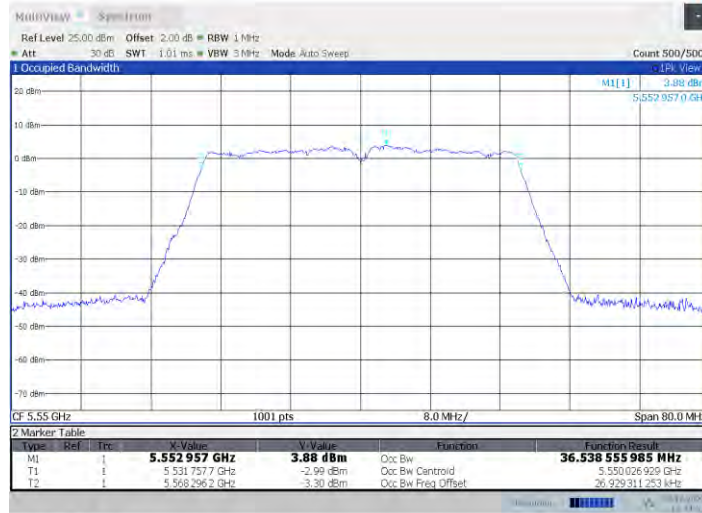
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11ac40SISO_Ant6_5510



11:13:53 28.12.2022

11ac40SISO_Ant6_5550



11:14:52 28.12.2022



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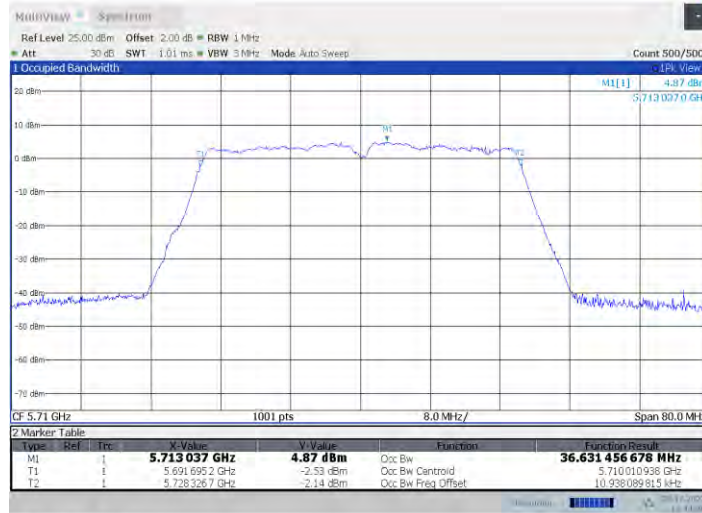
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11ac40SISO_Ant6_5670



11:26:29 28.12.2022

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11:44:29 28.12.2022

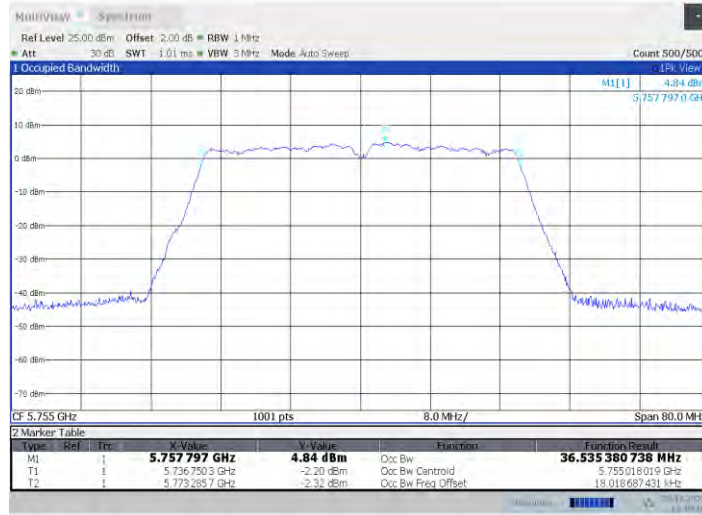


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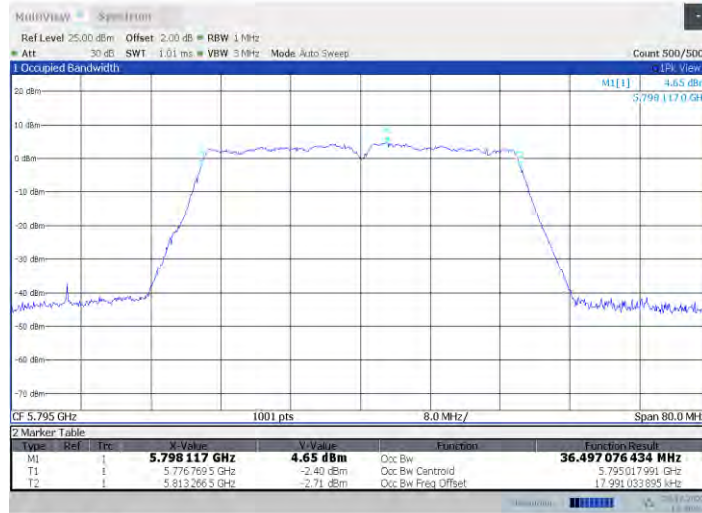
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11ac40SISO_Ant6_5755



11:49:19 28.12.2022

11ac40SISO_Ant6_5795



11:50:55 28.12.2022



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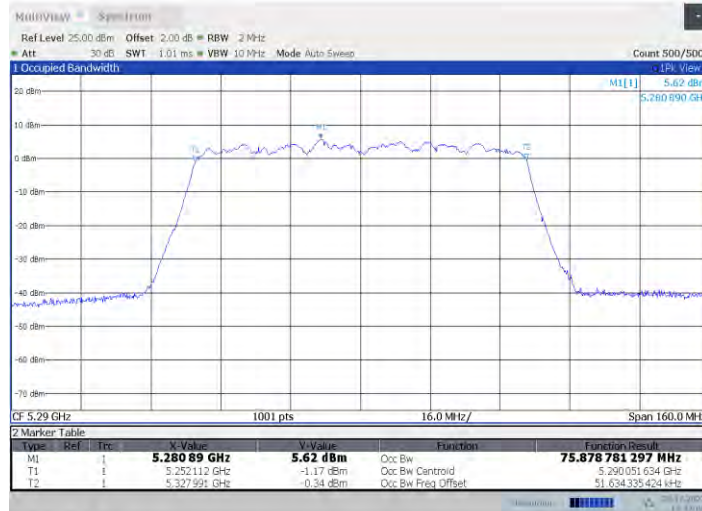
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12:34:02 28.12.2022

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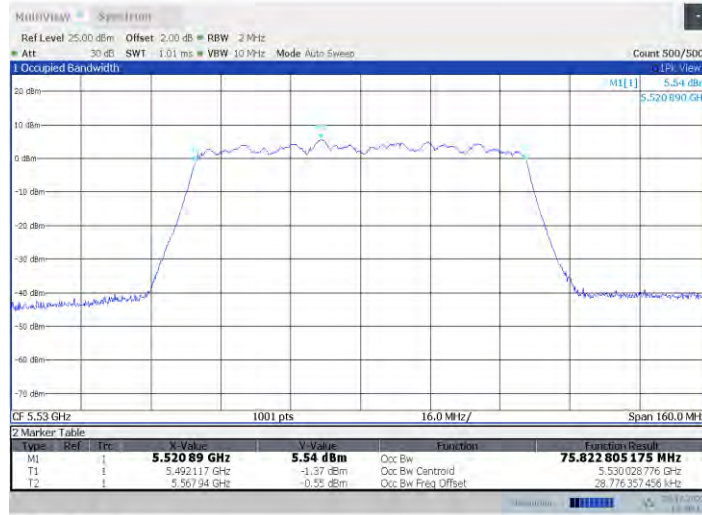


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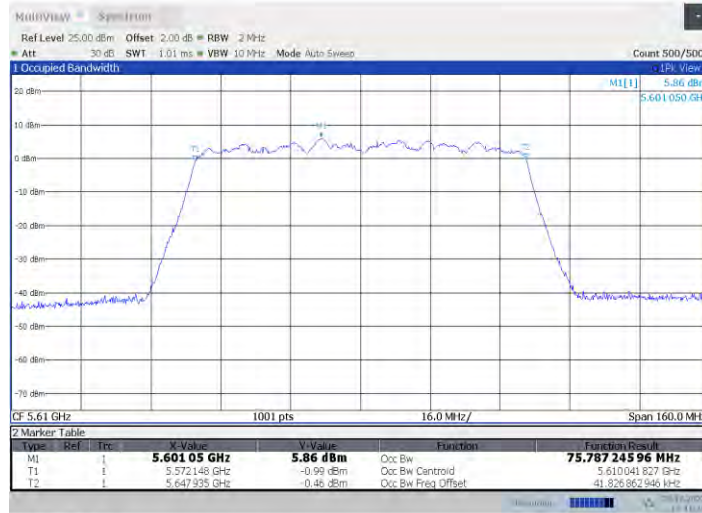
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12:38:12 28.12.2022

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12:41:26 28.12.2022



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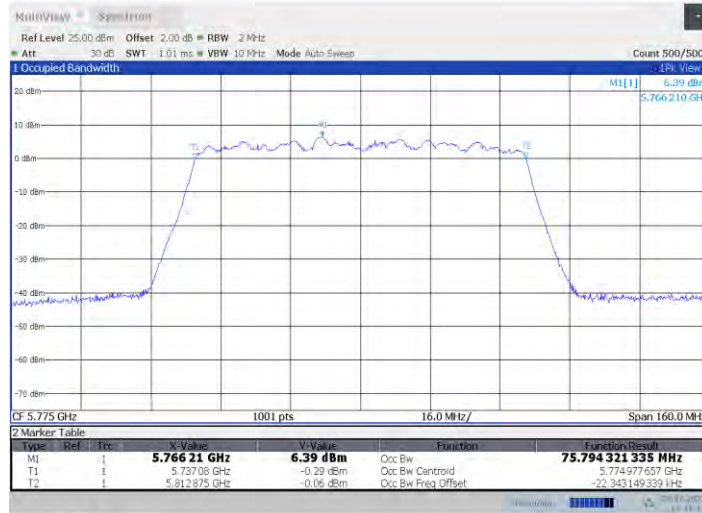
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11ac80SISO_Ant6_5690



12:49:14 28.12.2022

11ac80SISO_Ant6_5775



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**6dB emission bandwidth
Test Result B4**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant6	5745	15.40	5737.16	5752.56	≥0.5	PASS
		5785	14.56	5778.04	5792.60	≥0.5	PASS
		5825	14.52	5818.04	5832.56	≥0.5	PASS
11ac20SISO	Ant6	5745	16.00	5736.52	5752.52	≥0.5	PASS
		5785	16.88	5776.52	5793.40	≥0.5	PASS
		5825	15.00	5817.76	5832.76	≥0.5	PASS
11ac40SISO	Ant6	5755	36.56	5736.68	5773.24	≥0.5	PASS
		5795	34.40	5777.96	5812.36	≥0.5	PASS
11ac80SISO	Ant6	5775	75.52	5737.24	5812.76	≥0.5	PASS

Straddle Channel

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant6	5720 UNII-3	1.92	5725	5726.92	≥0.5	PASS
11ac20SISO	Ant6	5720 UNII-3	3.16	5725	5728.16	≥0.5	PASS
11ac40SISO	Ant6	5710 UNII-3	2.60	5725	5727.60	≥0.5	PASS
11ac80SISO	Ant6	5690 UNII-3	2.76	5725	5727.76	≥0.5	PASS

Remark:

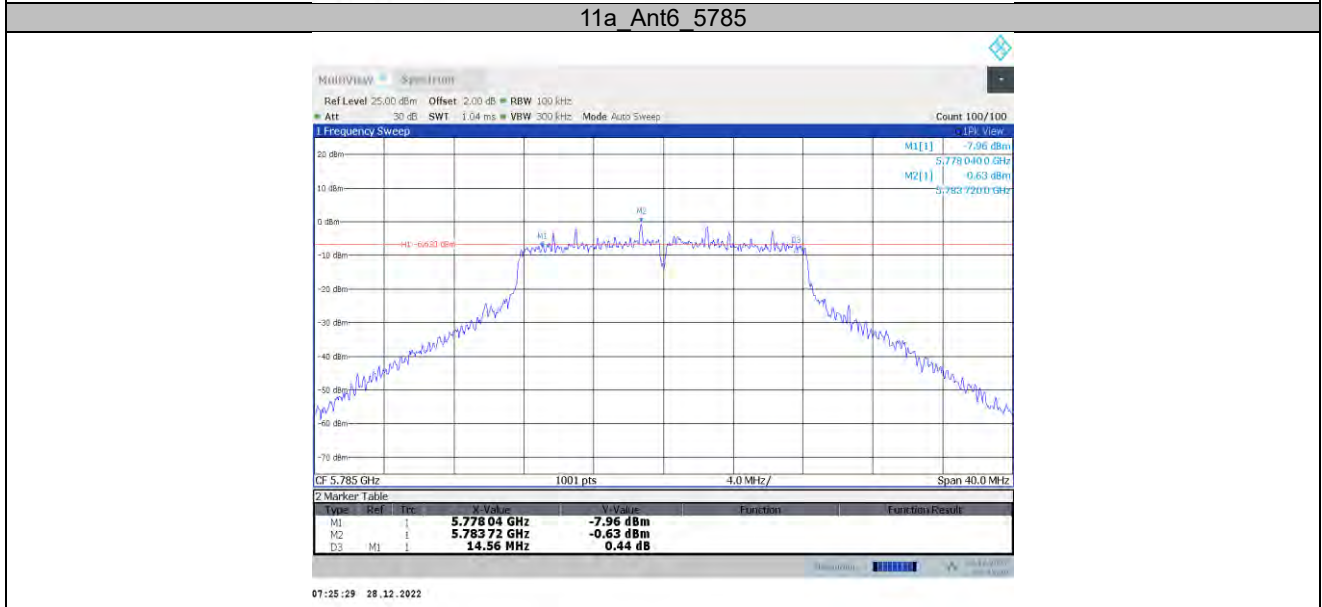
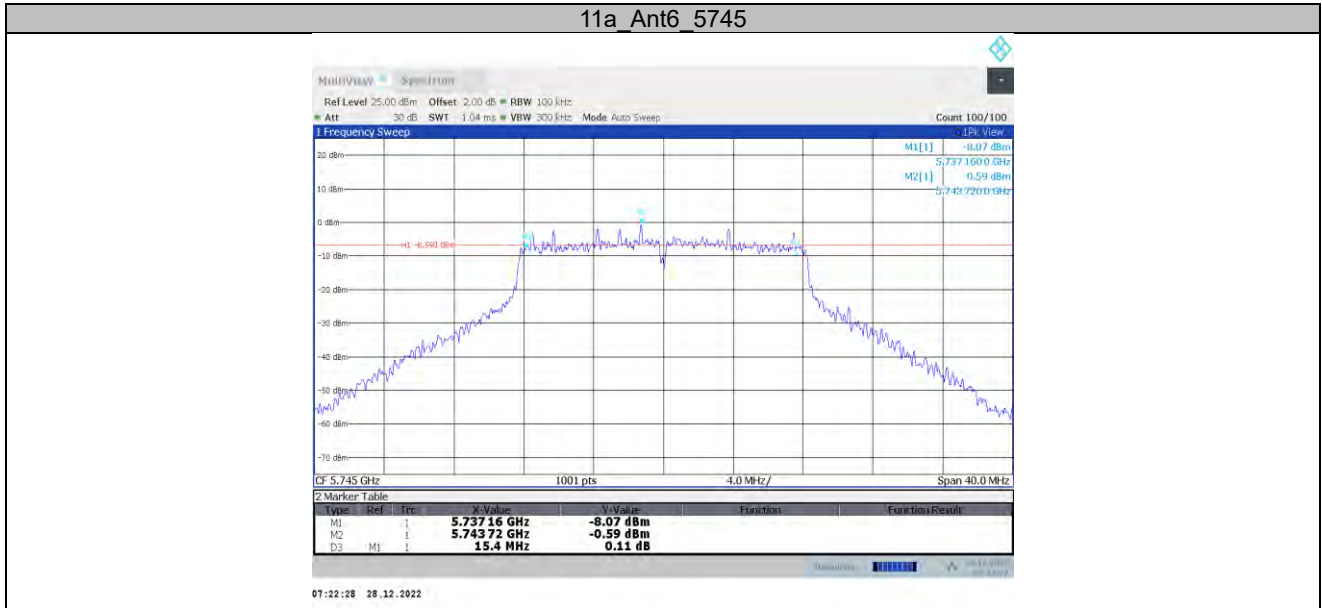
For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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Test Graphs B4



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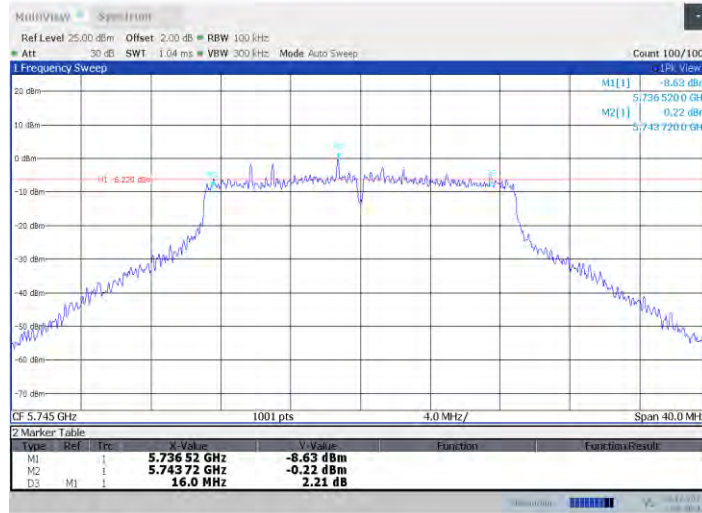
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11a_Ant6_5825



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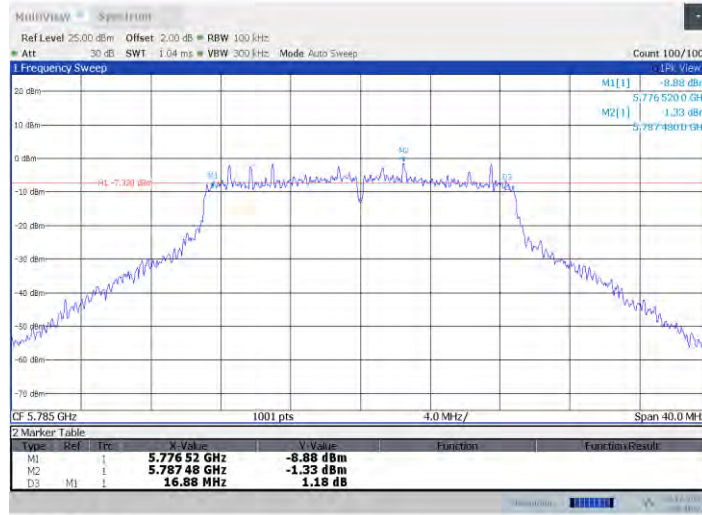


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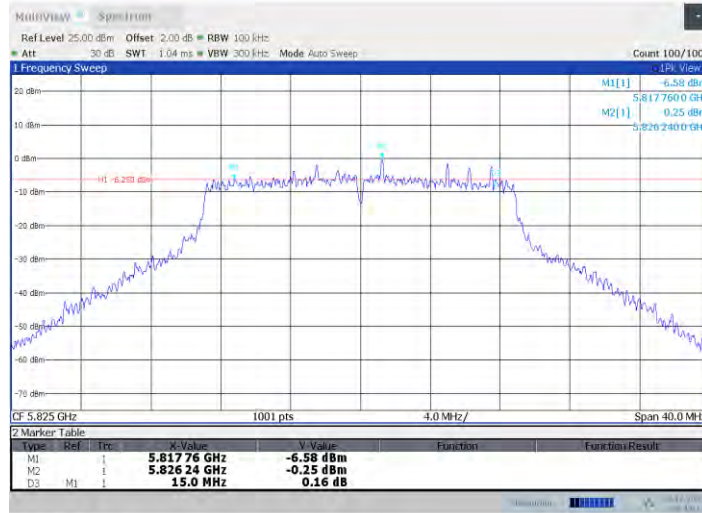
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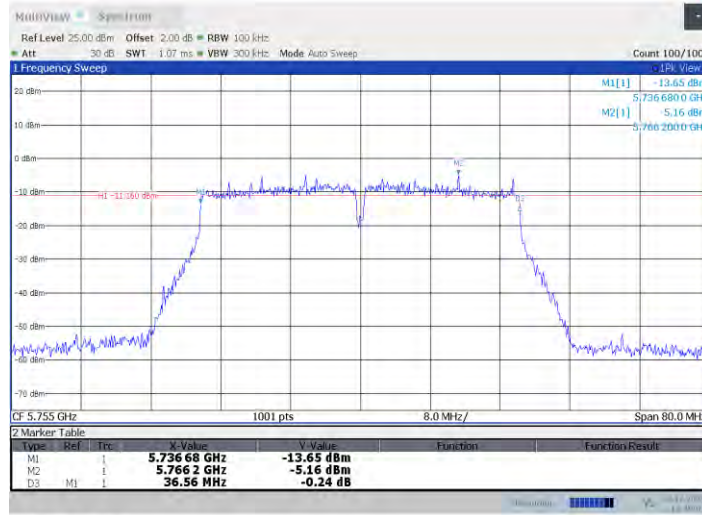


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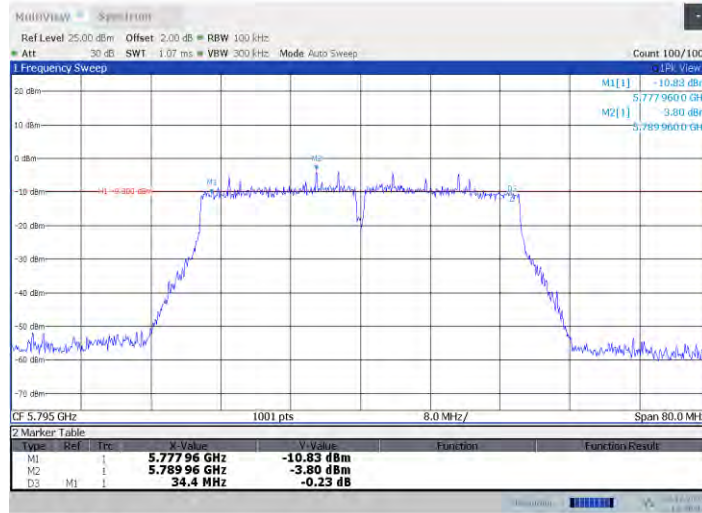
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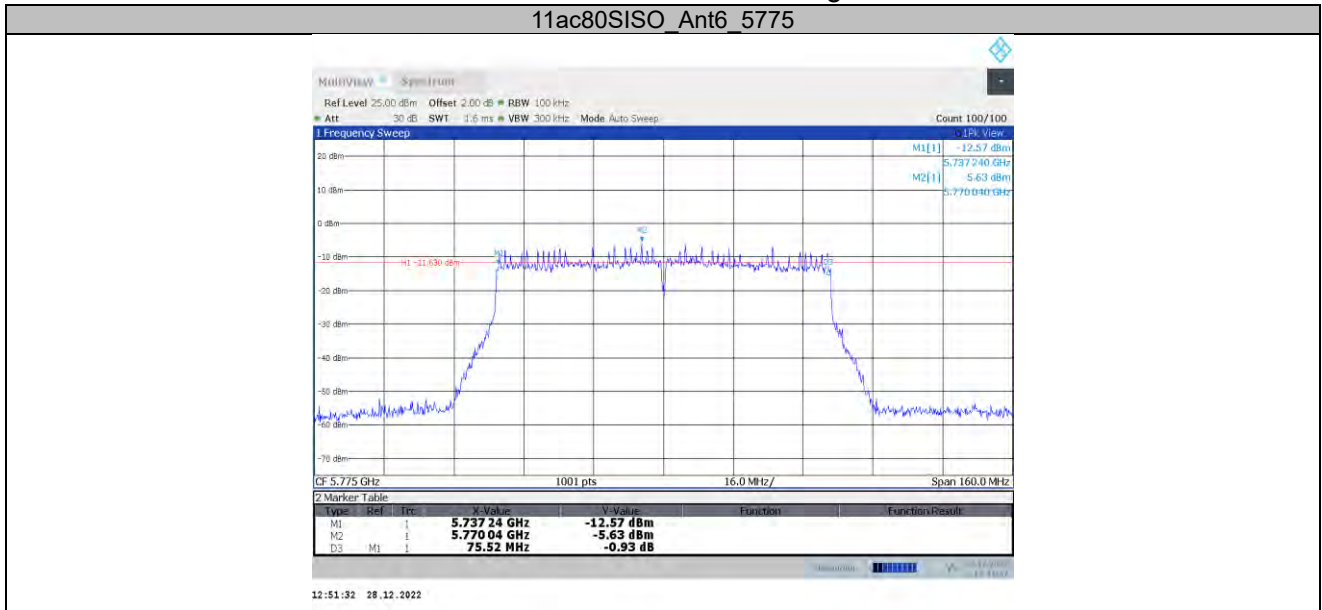
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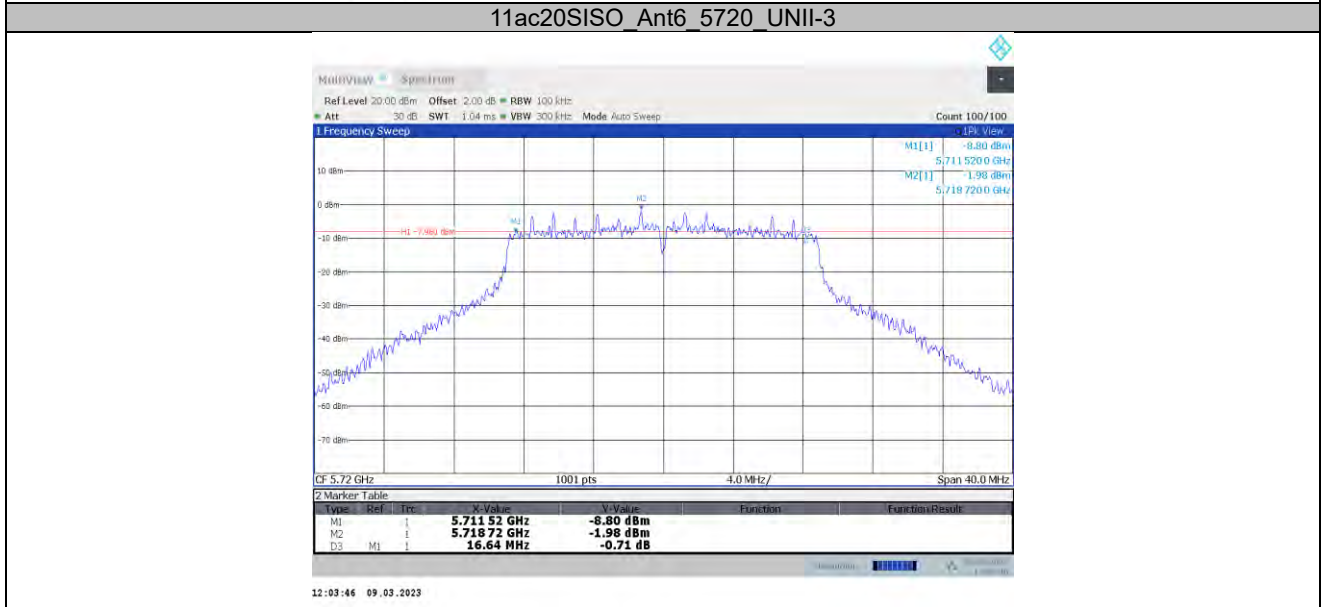
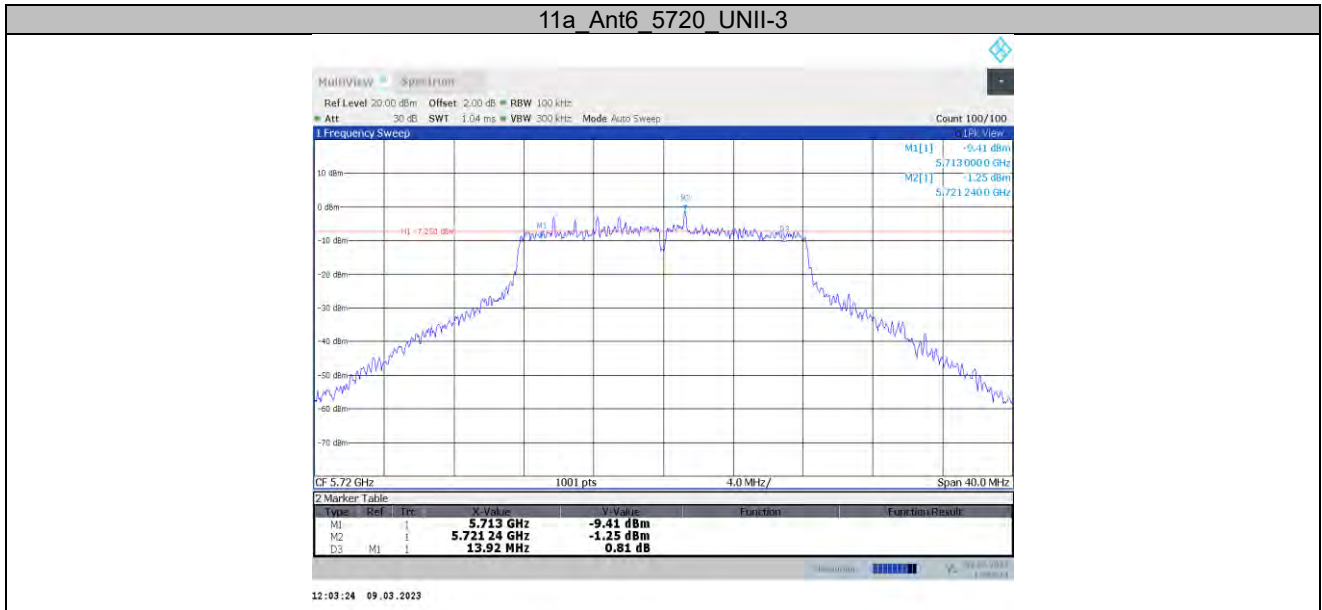


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Straddle Channel

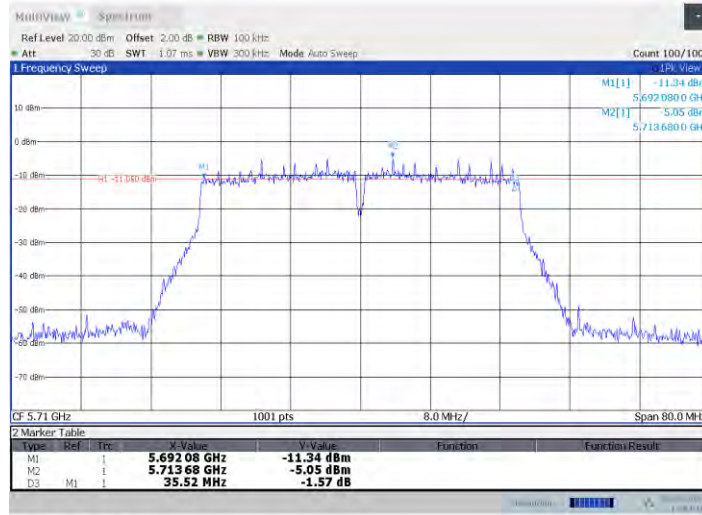


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11ac40SISO_Ant6_5710_UNII-3



12:04:18 09.03.2023

11ac80SISO_Ant6_5690_UNII-3



12:05:12 09.03.2023



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**Duty Cycle
Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant6	5180	1.40	1.49	93.96
11n20SISO	Ant6	5180	1.31	1.40	93.57
11n40SISO	Ant6	5190	0.95	1.04	91.35
11ac20SISO	Ant6	5180	1.31	1.41	92.91
11ac40SISO	Ant6	5190	0.95	1.05	90.48
11ac80SISO	Ant6	5210	1.16	1.25	92.80

Note:

Radiated Emission VBW = 1 / T

11a (VBW) = 1/1.40=1kHz

11n20SISO (VBW) = 1/1.31=1kHz

11n40SISO (VBW) = 1/0.95=3kHz

11ac20SISO (VBW) = 1/1.31=1kHz

11ac40SISO (VBW) = 1/0.95=3kHz

11ac80SISO (VBW) = 1/1.16=1kHz

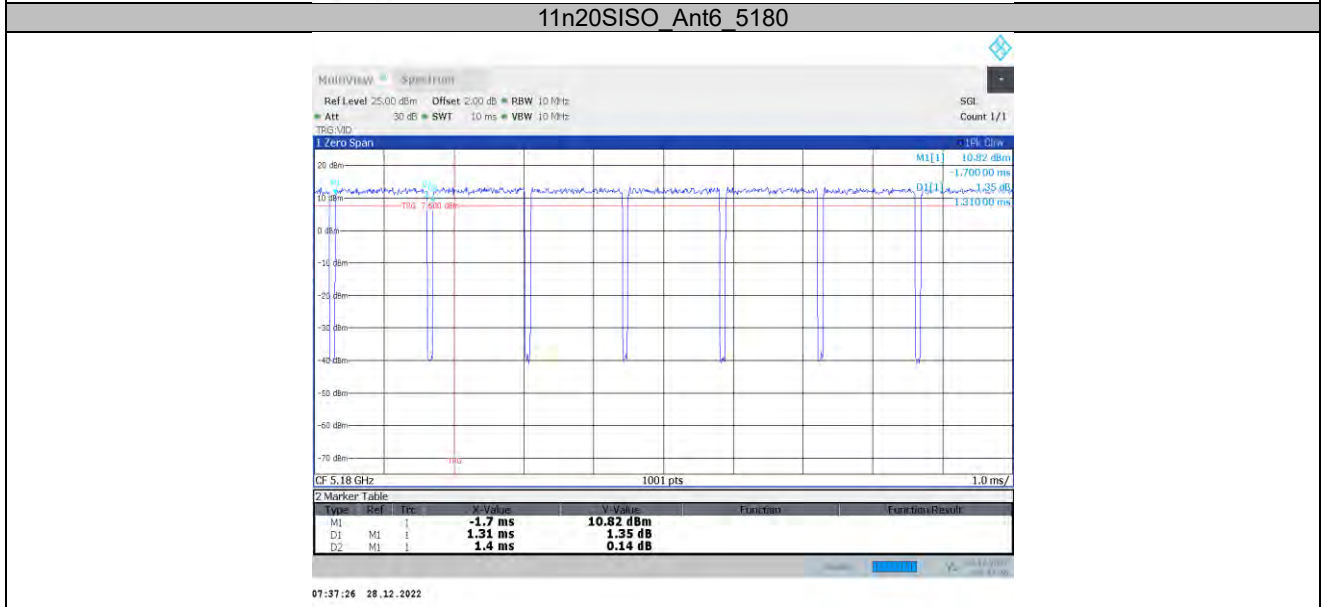
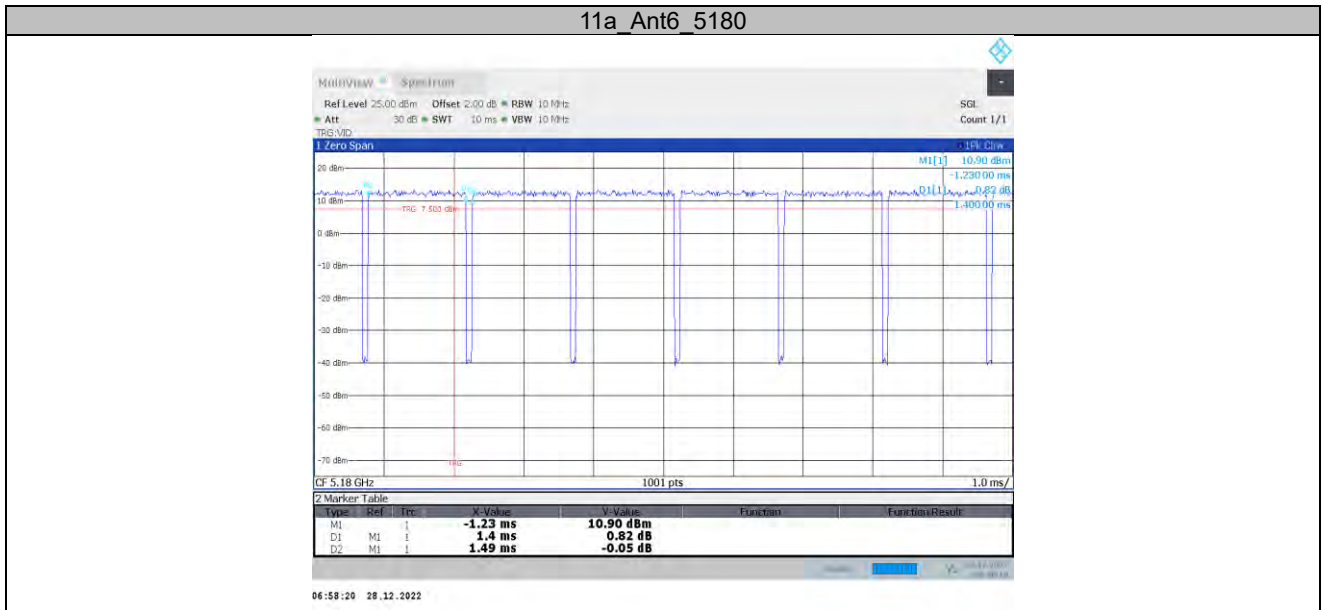


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Test Graphs

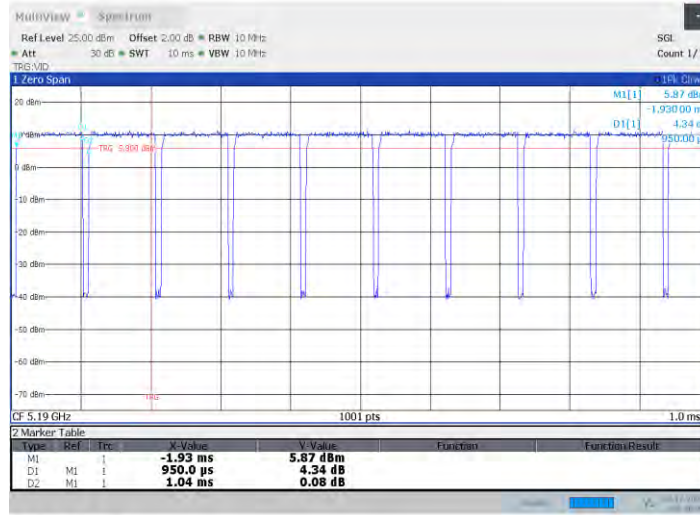


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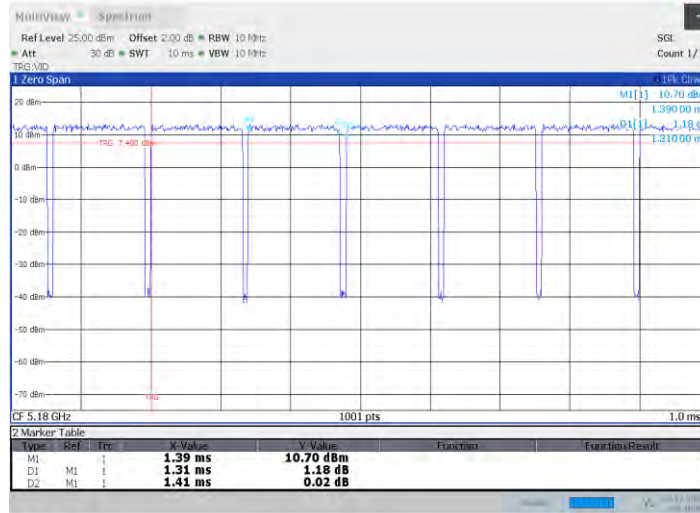
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11n40SISO Ant6 5190



07:38:39 28.12.2022

11ac20SISO Ant6 5180



07:40:09 28.12.2022

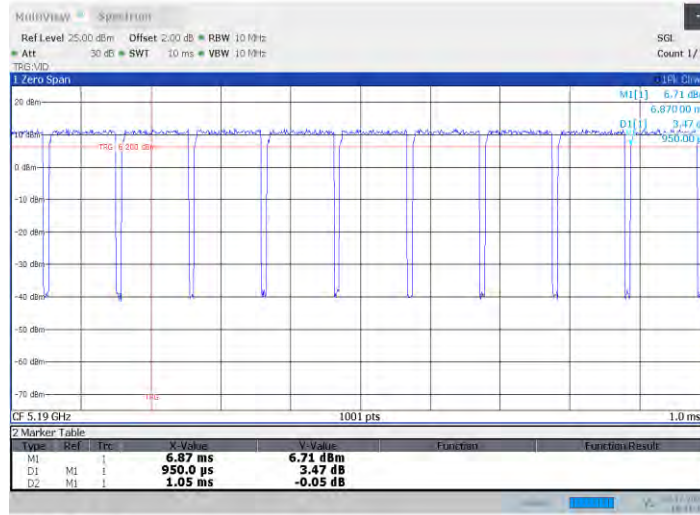


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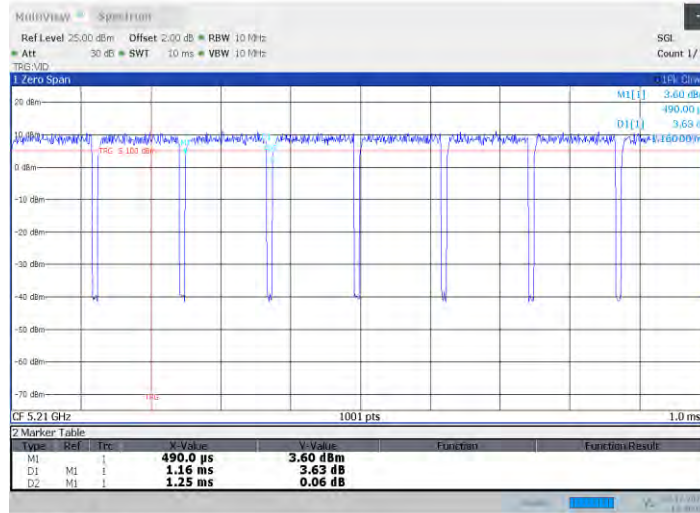
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11ac40SISO_Ant6_5190



10:51:42 28.12.2022

11ac80SISO_Ant6_5210



12:36:04 28.12.2022



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**Maximum conducted output power
Test Result Average**

TestMode	Antenna	Channel	Result[dBm]
11a	Ant6	5180	9.39
		5220	9.46
		5240	9.37
		5260	9.33
		5300	9.32
		5320	9.19
		5500	8.66
		5580	9.16
		5700	9.91
		5720	9.93
		5745	9.89
		5785	9.73
		5825	9.47
11n20SISO	Ant6	5180	9.26
		5220	9.23
		5240	9.18
		5260	9.21
		5300	9.15
		5320	9.01
		5500	8.56
		5580	9.06
		5700	9.75
		5720	9.84
		5745	9.76
		5785	9.61
		5825	9.33
11n40SISO	Ant6	5190	9.62
		5230	9.56
		5270	9.64
		5310	9.74
		5510	9.09
		5550	9.37
		5670	9.86
		5710	9.81
		5755	9.71
		5795	9.73
11ac20SISO	Ant6	5180	9.19
		5220	9.29
		5240	9.03
		5260	9.24
		5300	9.31
		5320	9.14
		5500	8.46
		5580	9.02
		5700	9.81
		5720	9.94
		5745	9.79
		5785	9.56
		5825	9.42
11ac40SISO	Ant6	5190	9.76
		5230	9.56



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Report No.: SEWM2212000308RG05

Rev.: 04

Page: 96 of 300

		5270	9.62
		5310	9.82
		5510	9.06
		5550	9.31
		5670	9.91
		5710	9.87
		5755	9.83
		5795	9.8
11ac80SISO	Ant6	5210	9.53
		5290	9.34
		5530	9.06
		5610	9.36
		5690	9.91
		5775	9.93



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict		
11a	Ant6	5180	-1.64	≤11.00	PASS		
		5220	-1.46	≤11.00	PASS		
		5240	-1.88	≤11.00	PASS		
		5260	-1.95	≤11.00	PASS		
		5300	-2.1	≤11.00	PASS		
		5320	-2.32	≤11.00	PASS		
		5500	-2.52	≤11.00	PASS		
		5580	-2.14	≤11.00	PASS		
		5700	-1.21	≤11.00	PASS		
		5720 UNII-2C	-1.31	≤11.00	PASS		
		5720 UNII-3	-5.66	≤30.00	PASS		
		5745	-4.12	≤30.00	PASS		
		5785	-4.25	≤30.00	PASS		
		5825	-4.36	≤30.00	PASS		
11ac20SISO	Ant6	5180	-2.09	≤11.00	PASS		
		5220	-1.97	≤11.00	PASS		
		5240	-2.47	≤11.00	PASS		
		5260	-2.56	≤11.00	PASS		
		5300	-2.76	≤11.00	PASS		
		5320	-2.7	≤11.00	PASS		
		5500	-2.45	≤11.00	PASS		
		5580	-2.26	≤11.00	PASS		
		5700	-1.23	≤11.00	PASS		
		5720 UNII-2C	-1.29	≤11.00	PASS		
		5720 UNII-3	-5.53	≤30.00	PASS		
		5745	-4.02	≤30.00	PASS		
		5785	-3.76	≤30.00	PASS		
		5825	-4.22	≤30.00	PASS		
11ac40SISO	Ant6	5190	-3.97	≤11.00	PASS		
		5230	-4.34	≤11.00	PASS		
		5270	-4.87	≤11.00	PASS		
		5310	-4.91	≤11.00	PASS		
		5510	-5.06	≤11.00	PASS		
		5550	-5	≤11.00	PASS		
		5670	-4.1	≤11.00	PASS		
		5710 UNII-2C	-3.91	≤11.00	PASS		
		5710 UNII-3	-8.43	≤30.00	PASS		
		5755	-6.72	≤30.00	PASS		
		5795	-6.9	≤30.00	PASS		
		11ac80SISO	Ant6	5210	-7.69	≤11.00	PASS
				5290	-8.13	≤11.00	PASS
				5530	-8.26	≤11.00	PASS
5610	-8.06			≤11.00	PASS		
5690 UNII-2C	-7.45			≤11.00	PASS		
5690 UNII-3	-11.84			≤30.00	PASS		
5775	-10.26			≤30.00	PASS		

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Remark:

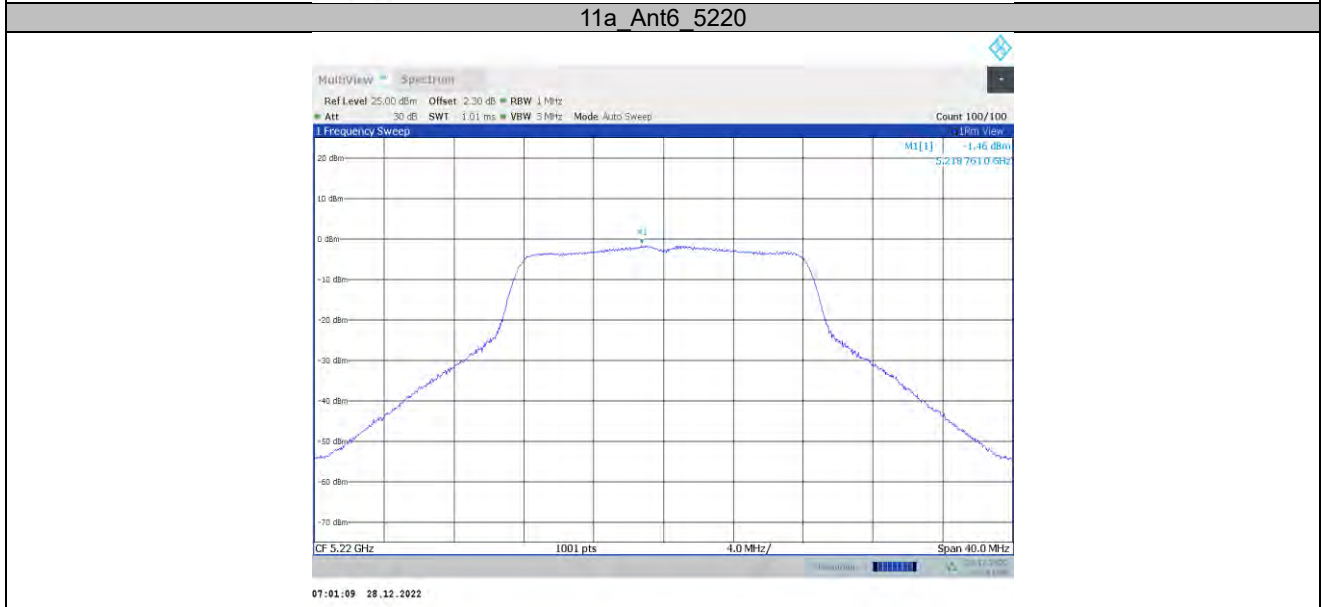
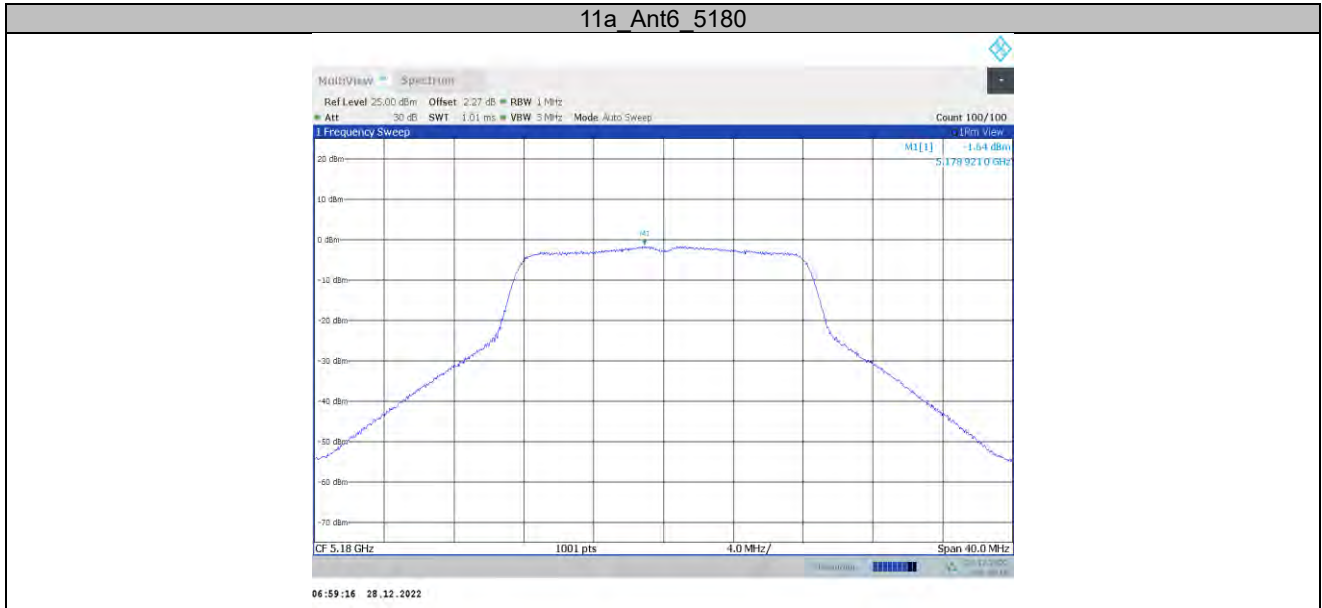
For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



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Test Graphs

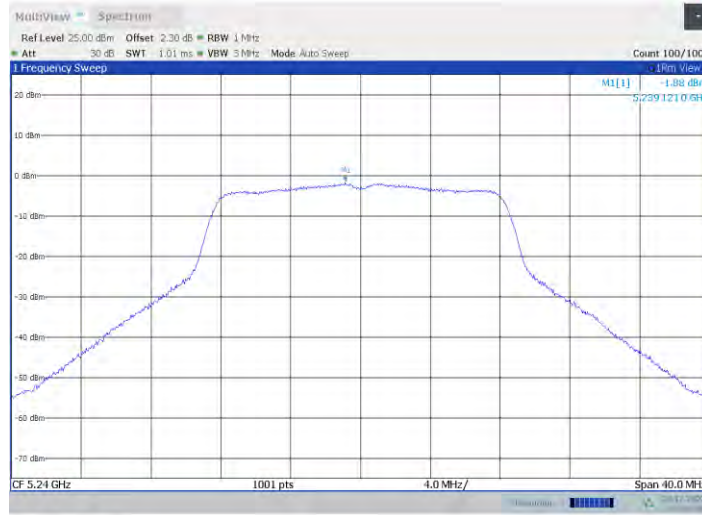


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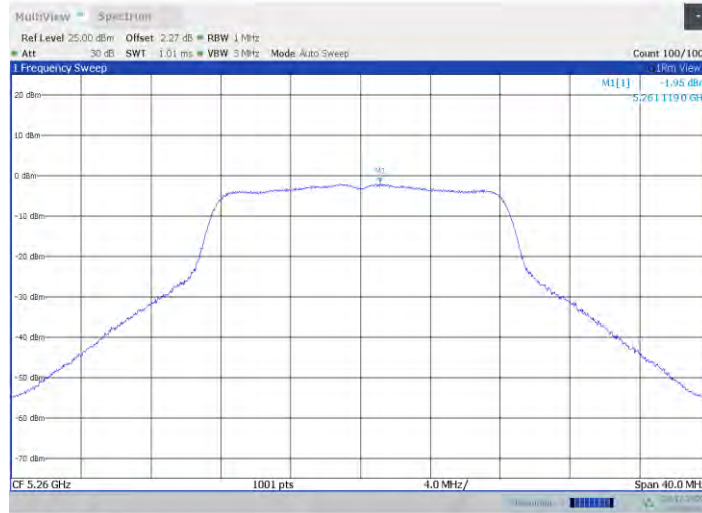
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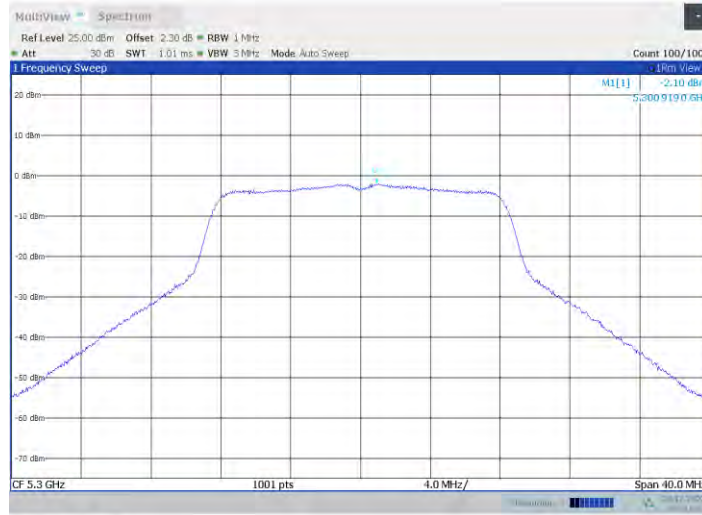


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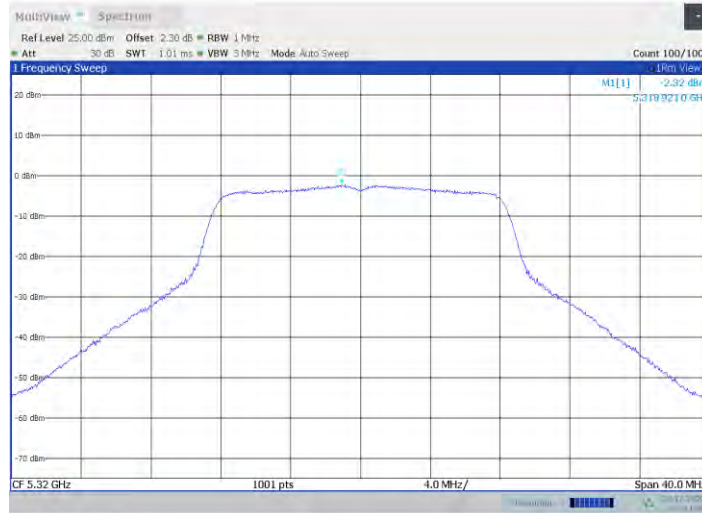
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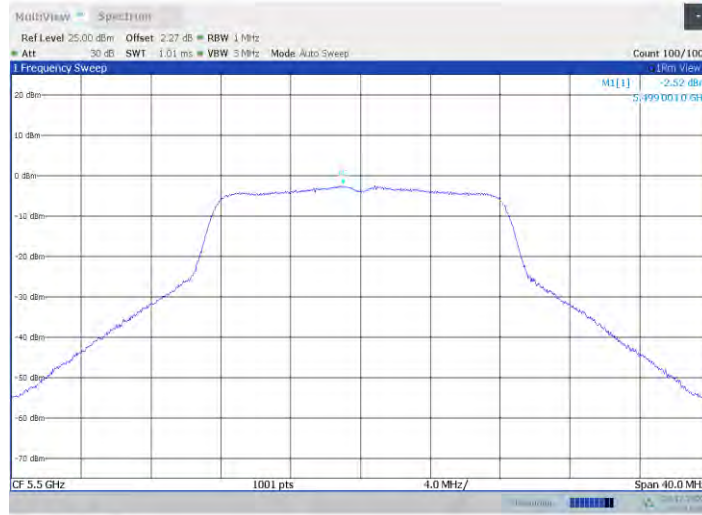
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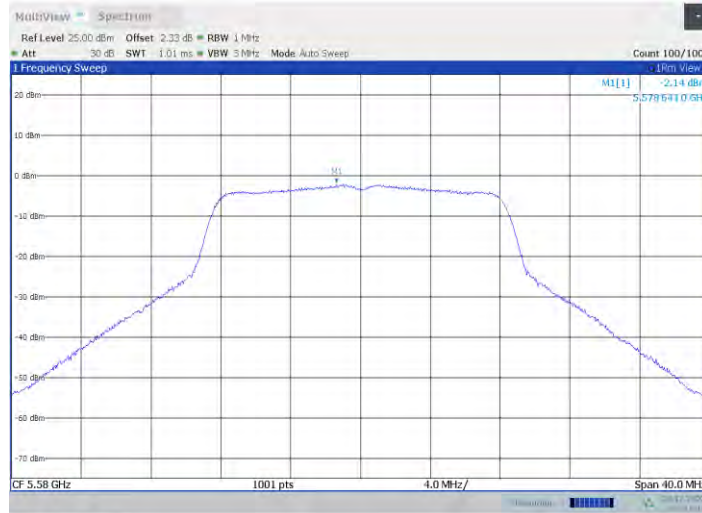
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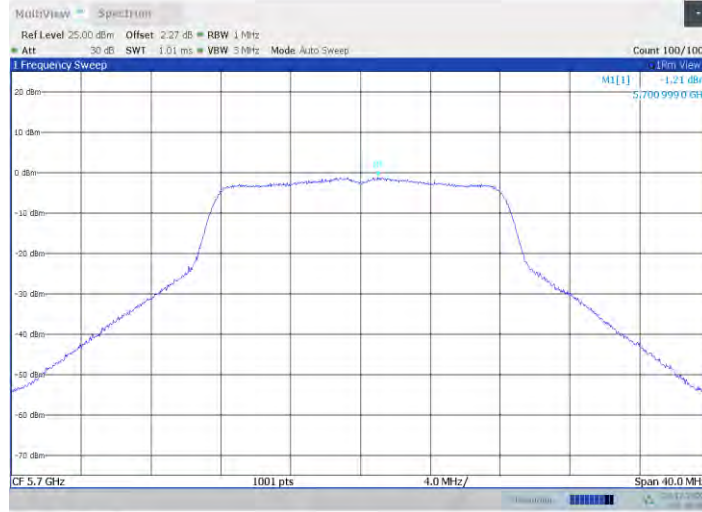


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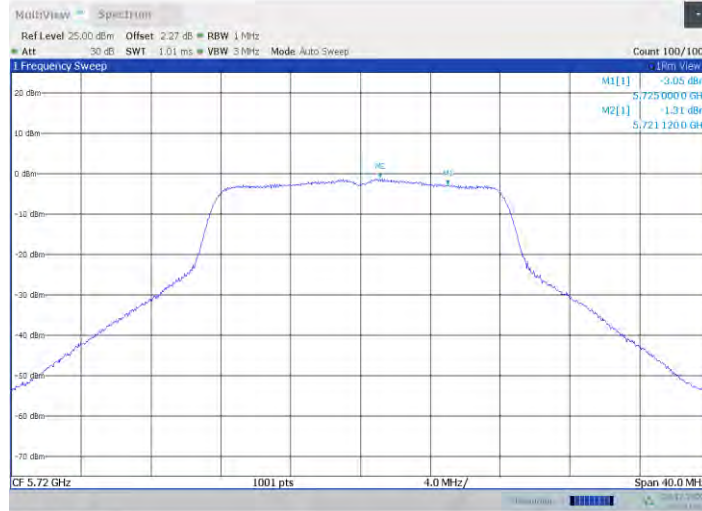
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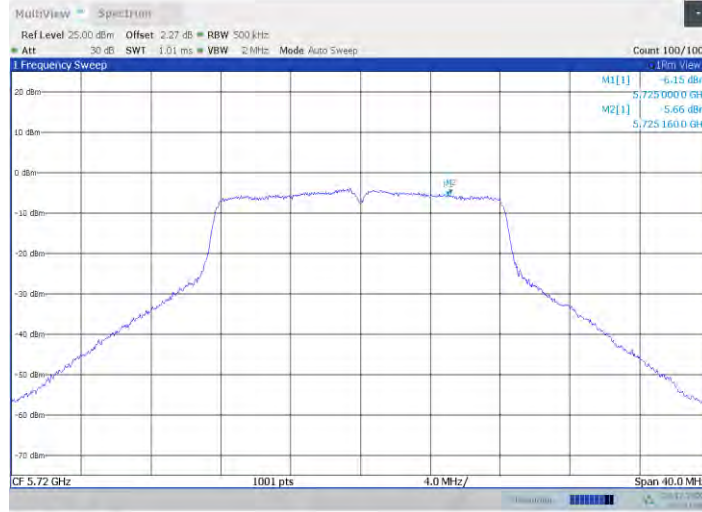
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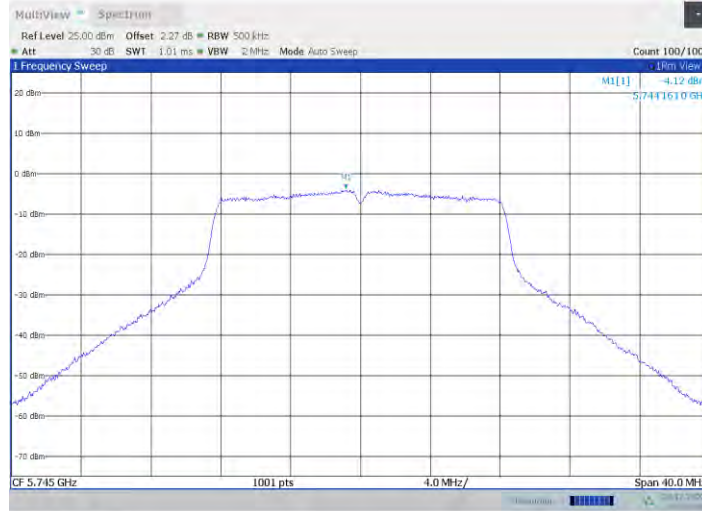
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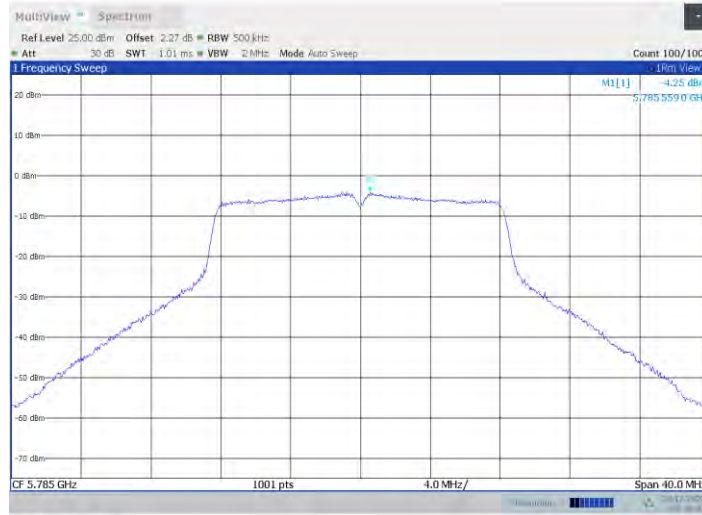
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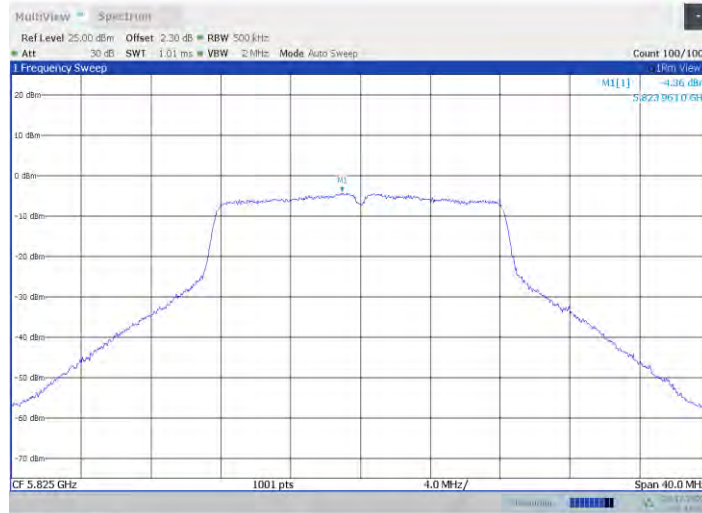
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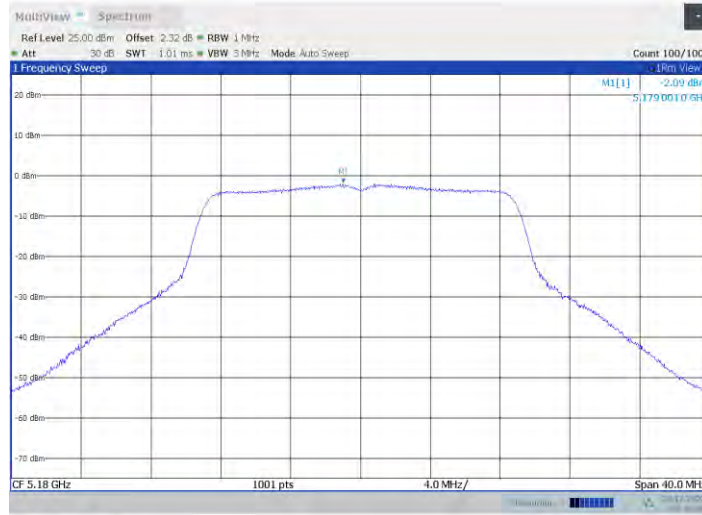


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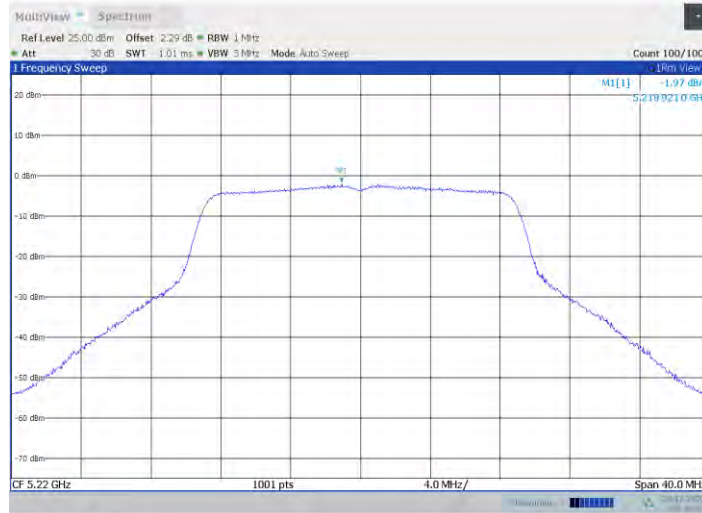
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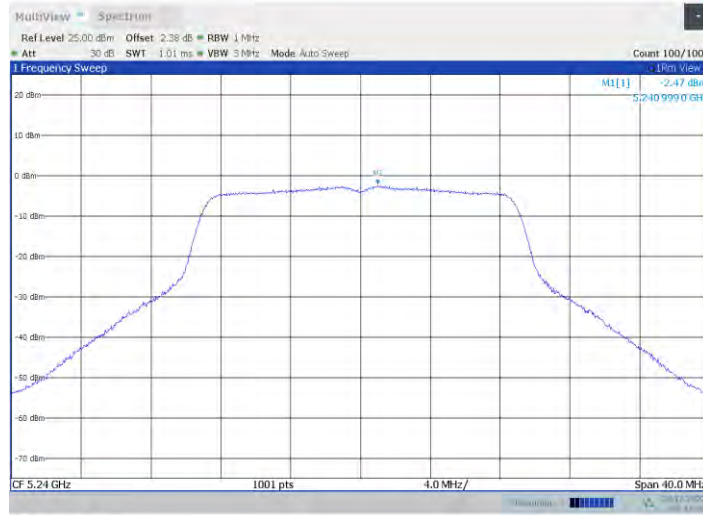


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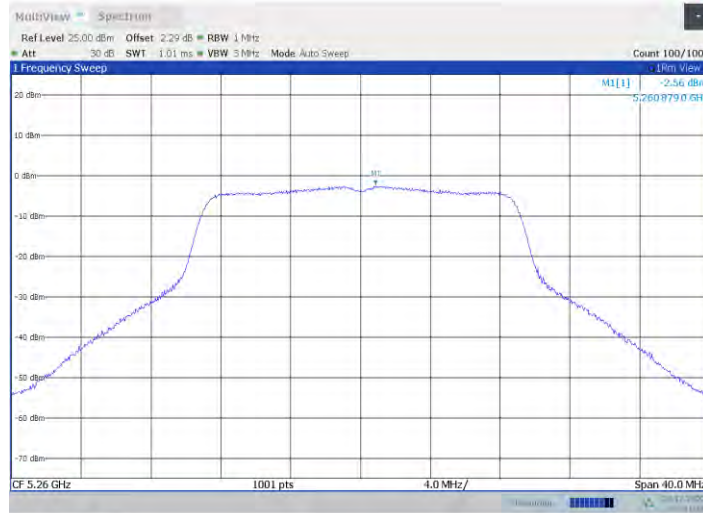
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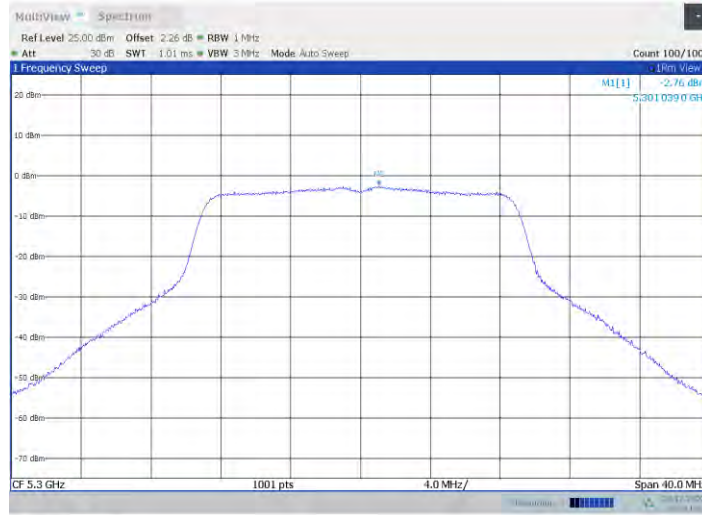


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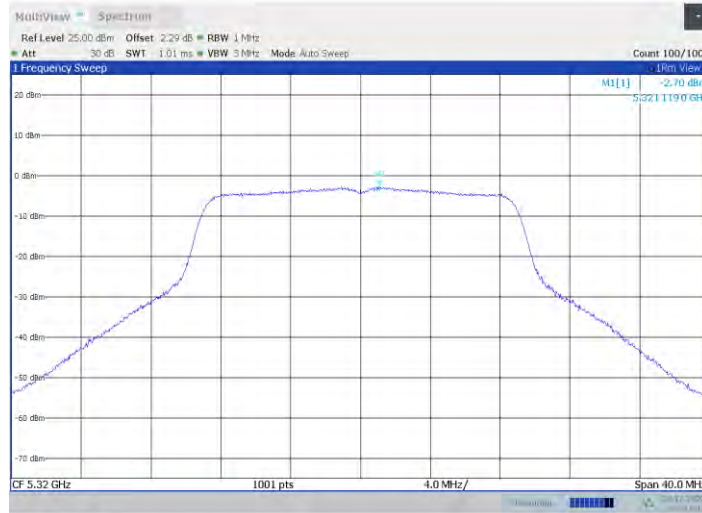
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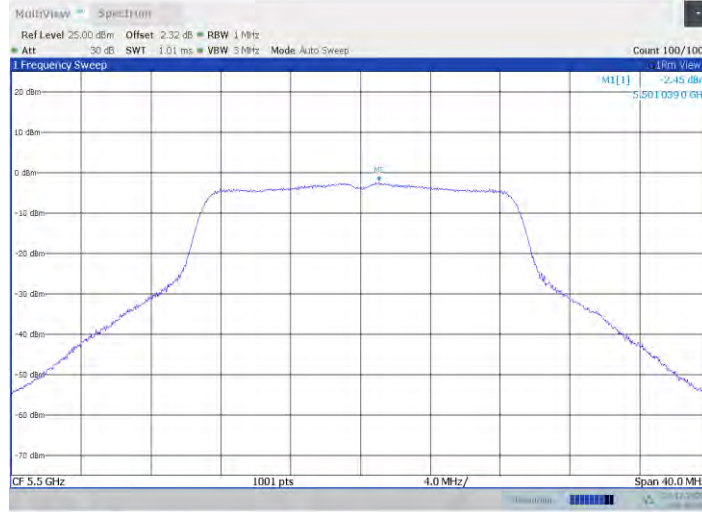
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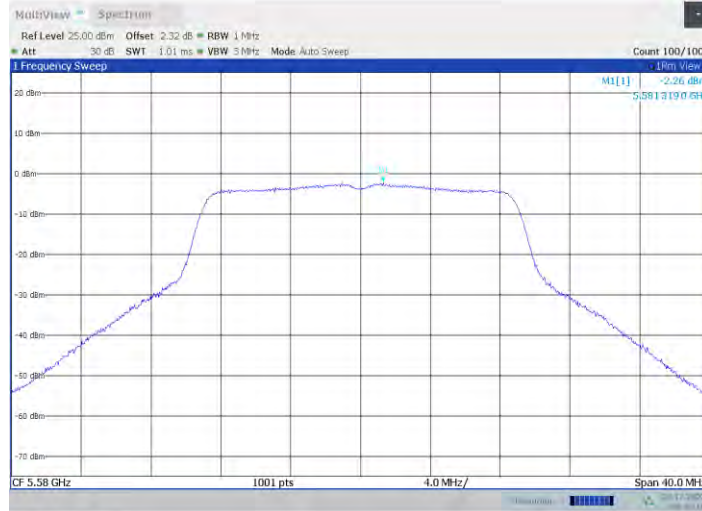
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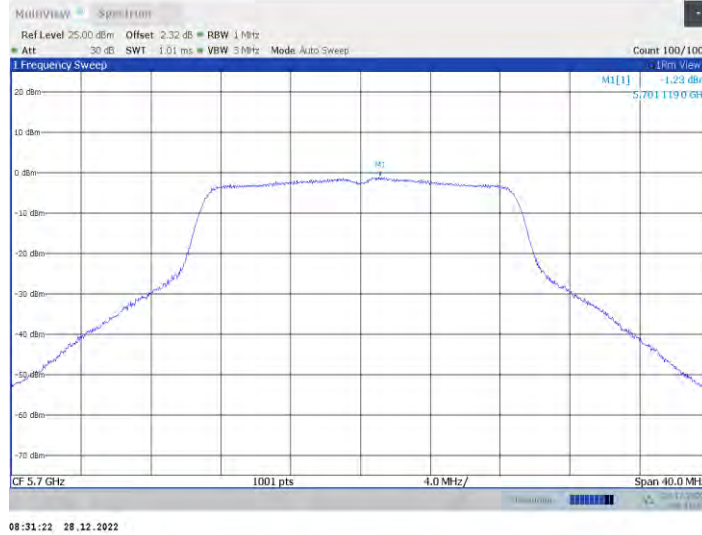


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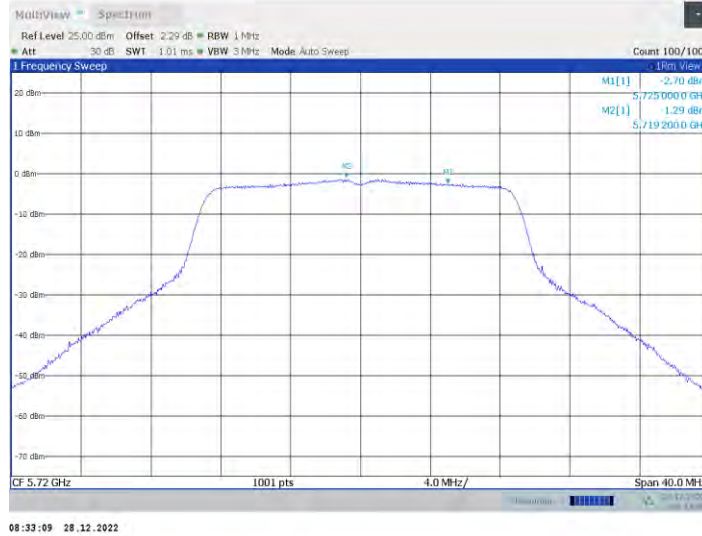
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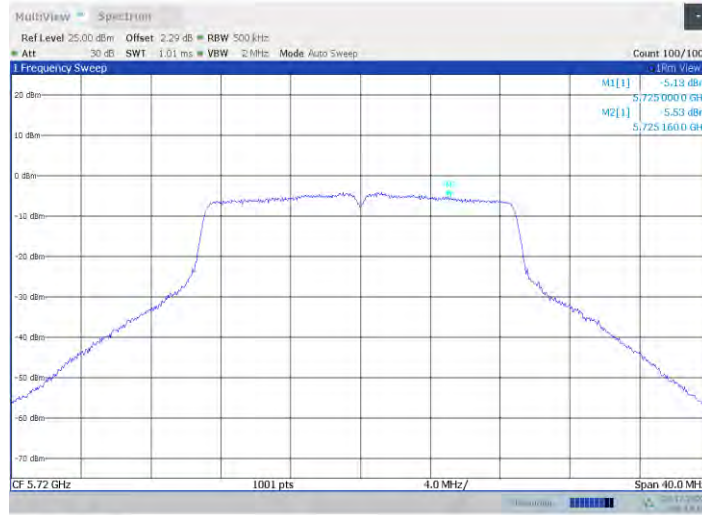


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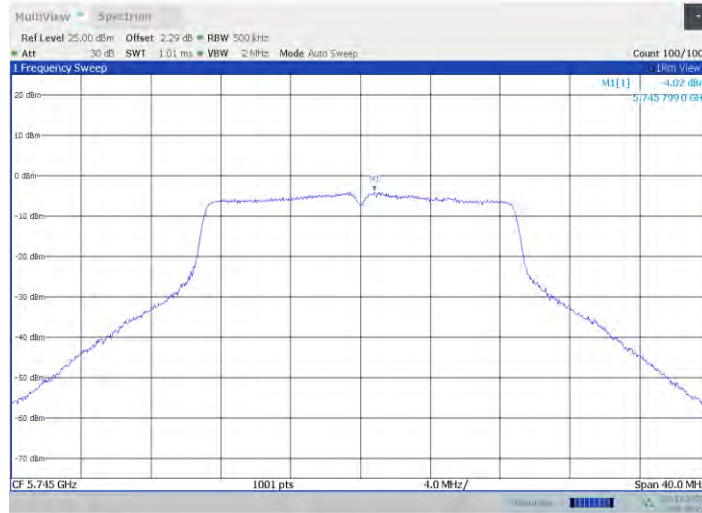
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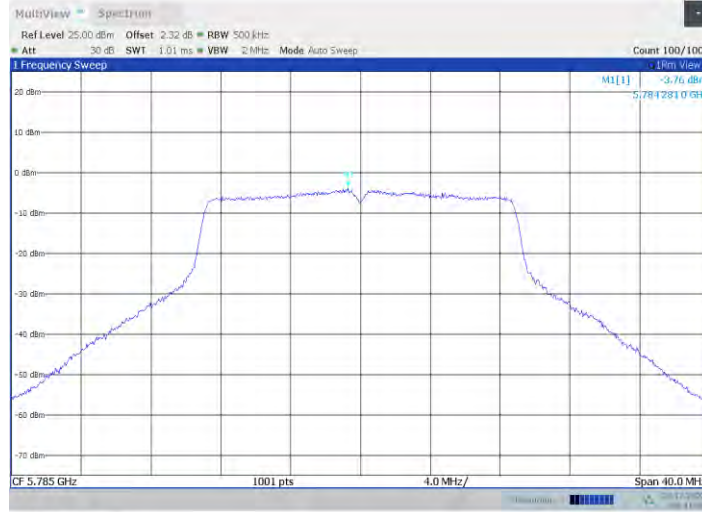


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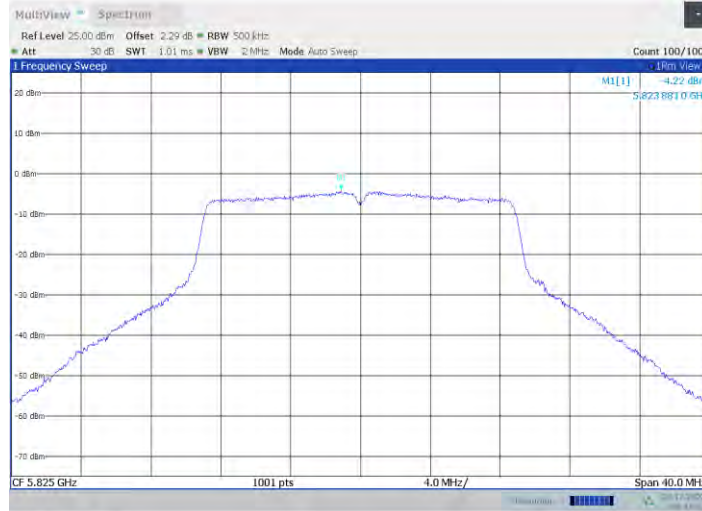
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08:42:52 28.12.2022

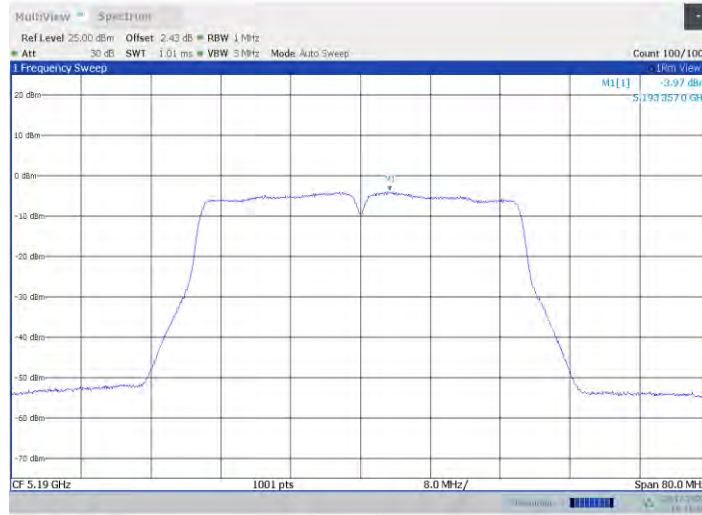


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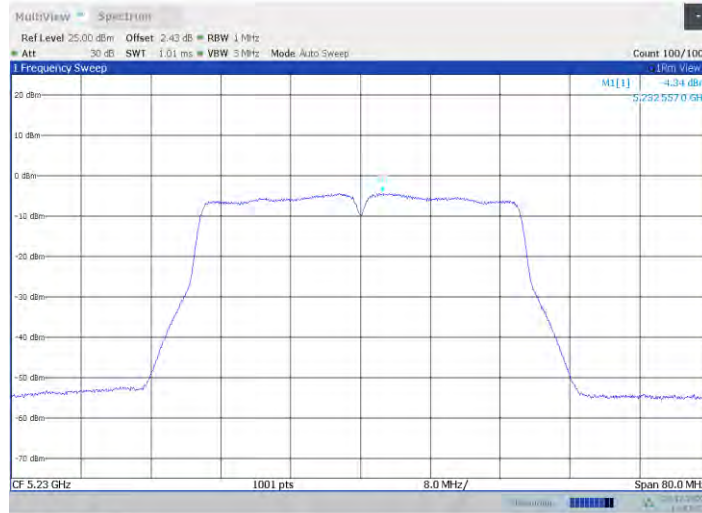
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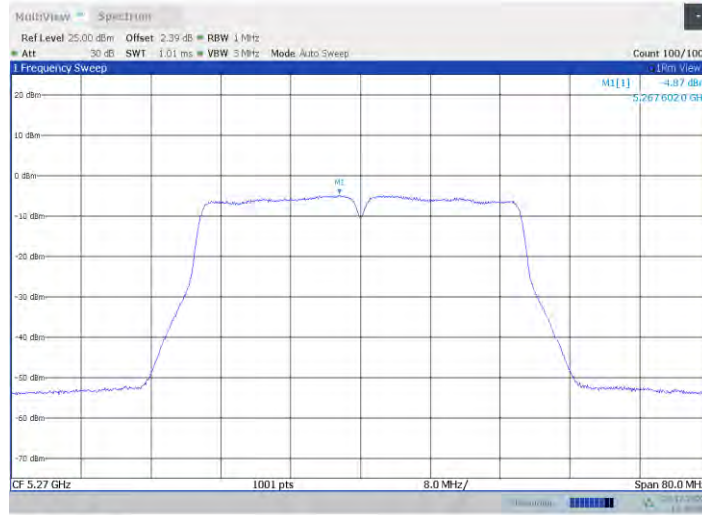


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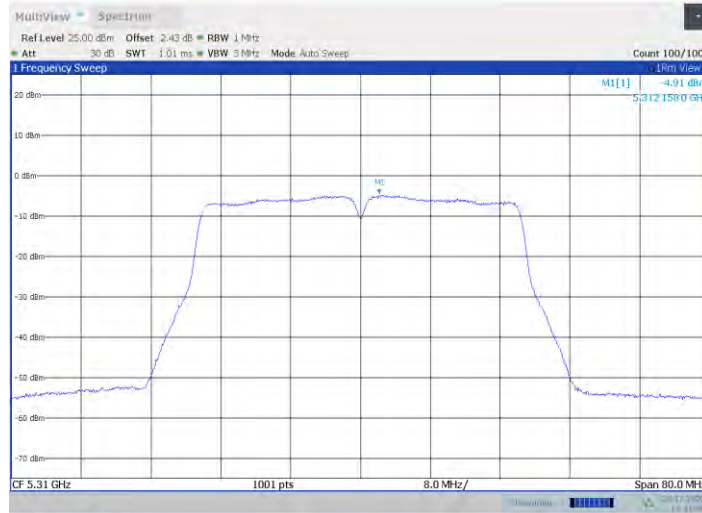
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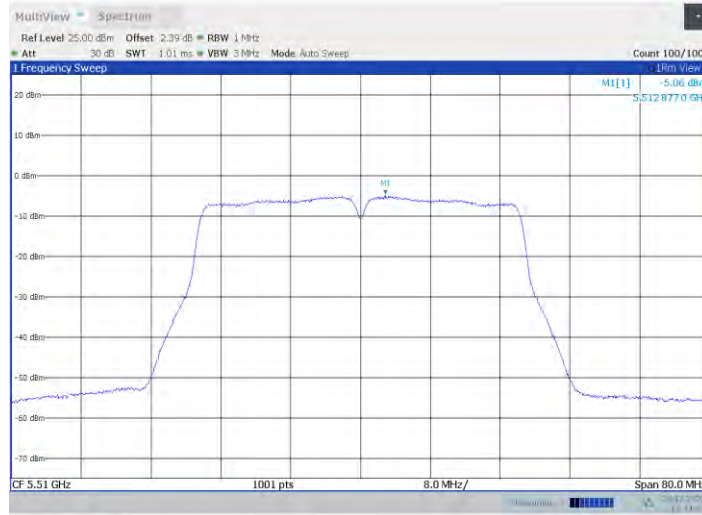
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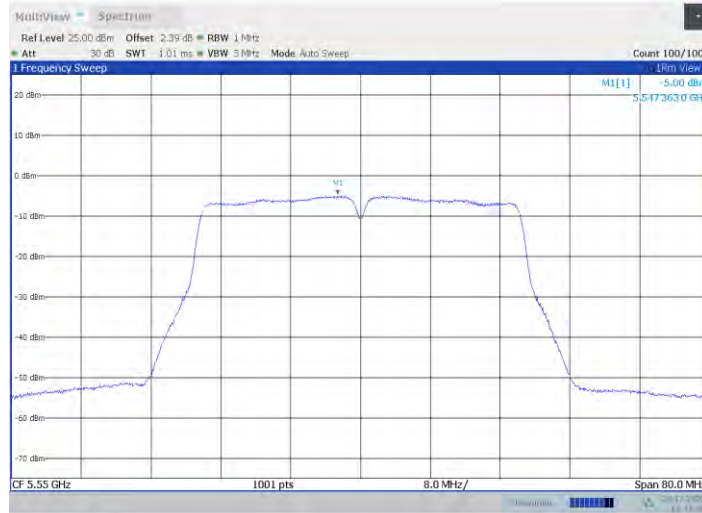
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