

Report No.: SEWA2210000062RG04
 Rev.: 01
 Page: 1 of 234

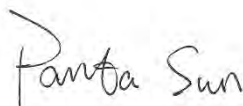
TEST REPORT

Application No.: SEWA2210000062RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi&Bluetooth Module
Model No.: FC900E
Trade Mark: Quectel
FCC ID: XMR202210FC900E
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/11/06
Date of Test: 2022/11/21 to 2022/12/14
Date of Issue: 2022/12/15

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:




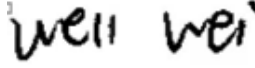
Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/15		Original

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)(ii)	< 1W	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*Ig(EBW)}		
	Band II-C	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)(ii)	<17dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	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
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
<p>Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz</p>					

Remark:

According to the customer's difference statement, the RF chip is different. The RF chip is changed from QCA1023-0 to QCA9377-3. This difference will not affect the RF performance of the prototype

Model	QCA1023-0 version	QCA9377-3 version
FC900E	R1.0	R2.0

Only QCA1023-0 version was fully tested, RSE and power were tested on worst mode for QCA9377-3 version, and only the worst data is presented in the report.



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

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:	Wi-Fi&Bluetooth Module	
Model No.:	FC900E	
Trade Mark:	Quectel	
Hardware Version:	QCA1023-0: R1.0 QCA9377-3: R2.0	
Software Version:	FC900E	
IMEI:	RF Conducted	868794069992484
	RSE & AC power line	864337056149348
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)
	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:	External Antenna	
Antenna Gain:	5150MHz to 5250MHz: 1.14dBi 5250MHz to 5350MHz: 1.00dBi 5470MHz to 5725MHz: 0.60dBi 5725MHz to 5850MHz: 0.90dBi	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
TPC Function:	<input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support	
Use Conditions:	Indoor	
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	
RF Cable:	1.5dB	



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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 of Operation Operating Frequency Range (in each Band)	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



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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	3.30
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	N/A
Remark: all above the information of table are provided by client.		

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 External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: 1.14dBi* 5250MHz to 5350MHz: 1.00dBi* 5470MHz to 5725MHz: 0.60dBi* 5725MHz to 5850MHz: 0.90dBi.*</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
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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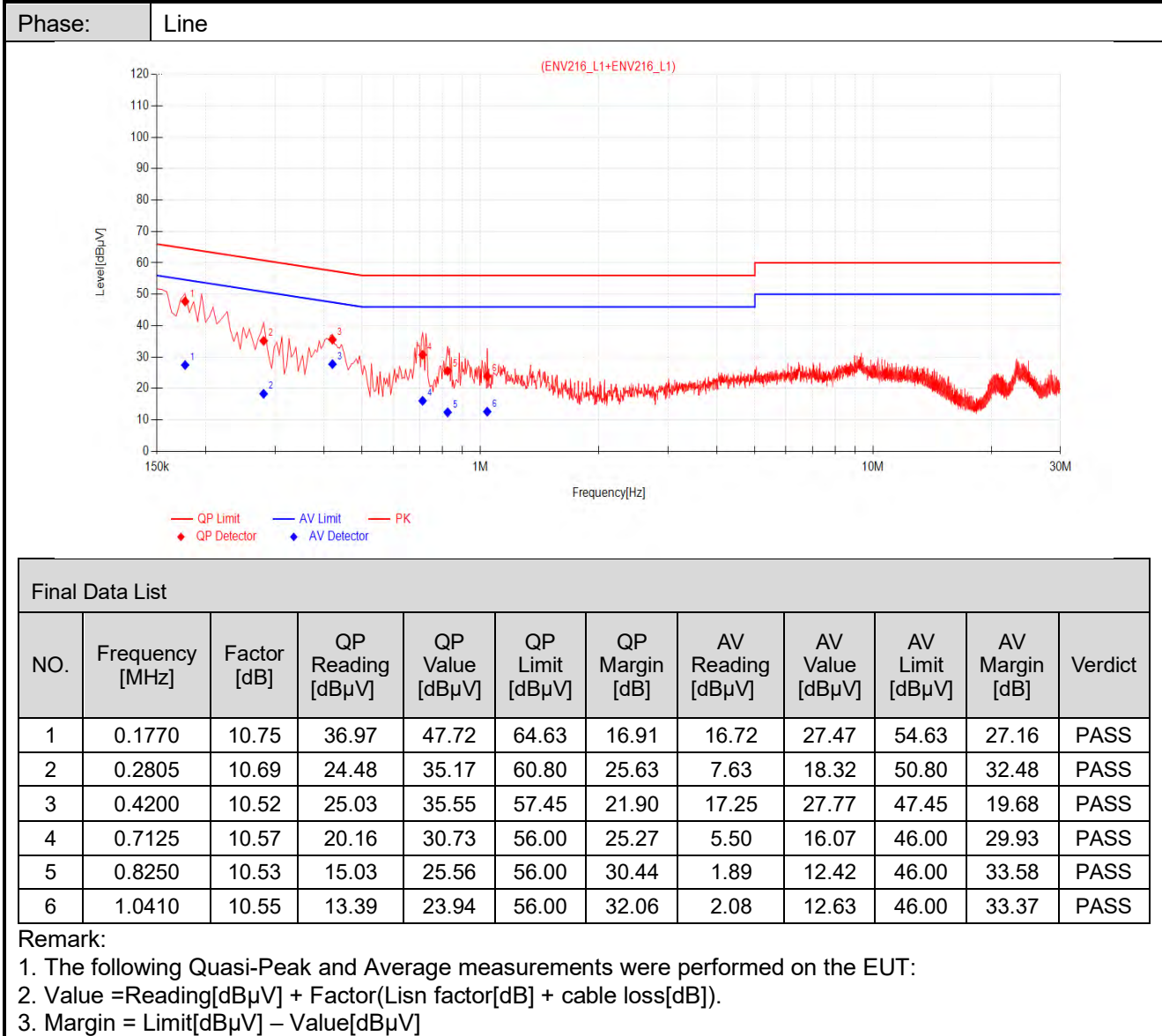
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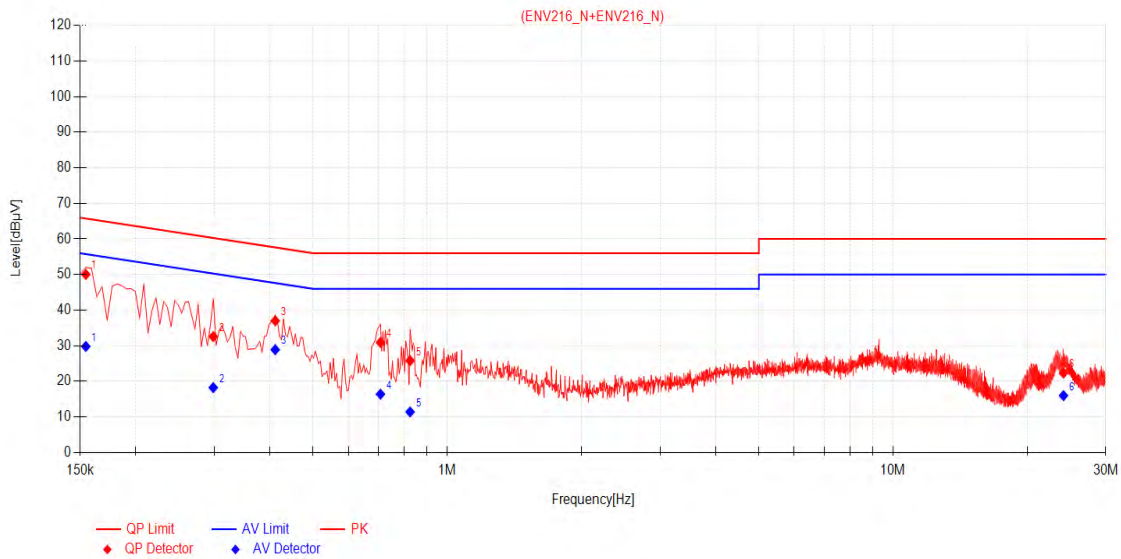
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Measurement Data

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
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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	0.1545	10.72	39.31	50.03	65.75	15.72	19.09	29.81	55.75	25.94	PASS
2	0.2985	10.76	21.80	32.56	60.28	27.72	7.48	18.24	50.28	32.04	PASS
3	0.4110	10.83	26.18	37.01	57.63	20.62	18.06	28.89	47.63	18.74	PASS
4	0.7080	10.81	20.13	30.94	56.00	25.06	5.57	16.38	46.00	29.62	PASS
5	0.8250	10.80	15.03	25.83	56.00	30.17	0.60	11.40	46.00	34.60	PASS
6	24.1260	10.52	11.81	22.33	60.00	37.67	5.46	15.98	50.00	34.02	PASS

Remark:

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



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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)(ii)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3	
Test Setup:	<p>* Test with power meter (Detector function: Average)</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 1W(30dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	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)(ii)	
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 17dBm/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:

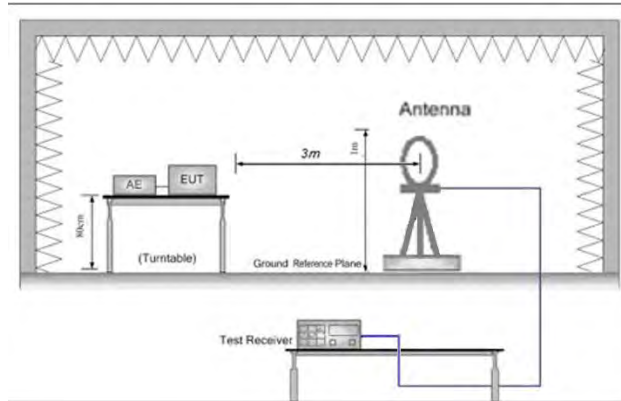


Figure 1. 9kHz to 30MHz

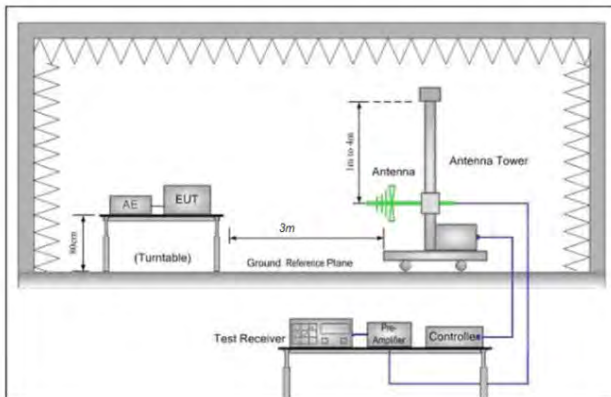


Figure 1. 30MHz to 1GHz

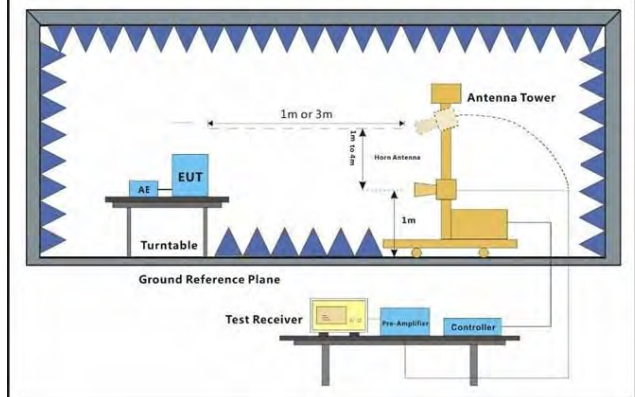


Figure 2. Above 1 GHz

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.



	<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 $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<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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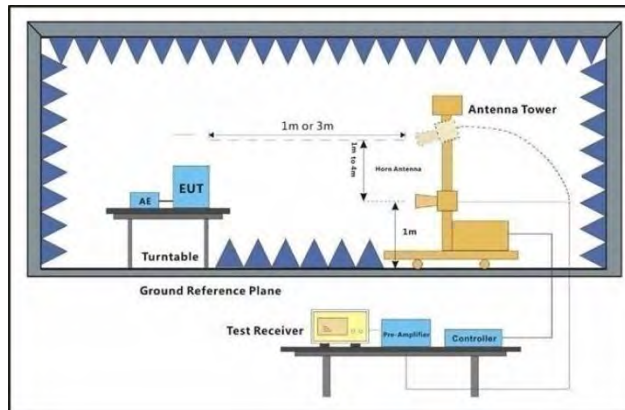
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4.10 Restricted bands around fundamental frequency

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



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	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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
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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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)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)
<p>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.</p>		



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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
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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
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
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2021/12/04	2022/12/03
				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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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**Emission Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant1	5180	20.96	5169.80	5190.76	Reporting only
		5220	19.96	5210.12	5230.08	
		5240	19.40	5230.04	5249.44	
		5260	20.96	5249.72	5270.68	
		5300	20.40	5289.76	5310.16	
		5320	20.44	5309.84	5330.28	
		5500	19.76	5490.32	5510.08	
		5580	19.00	5570.52	5589.52	
		5700	20.76	5689.96	5710.72	
		5745	20.52	5734.64	5755.16	
		5785	20.88	5774.76	5795.64	
		5825	20.12	5815.00	5835.12	
11n20SISO	Ant1	5180	20.92	5169.48	5190.40	Reporting only
		5220	21.52	5208.92	5230.44	
		5240	20.72	5229.60	5250.32	
		5260	20.64	5249.72	5270.36	
		5300	20.80	5289.52	5310.32	
		5320	20.56	5309.60	5330.16	
		5500	20.80	5489.60	5510.40	
		5580	20.88	5569.52	5590.40	
		5700	20.76	5689.60	5710.36	
		5745	20.68	5734.72	5755.40	
		5785	20.56	5774.56	5795.12	
		5825	20.44	5814.60	5835.04	
11n40SISO	Ant1	5190	41.36	5169.84	5211.20	Reporting only
		5230	40.56	5209.92	5250.48	
		5270	40.96	5249.60	5290.56	
		5310	40.96	5289.52	5330.48	
		5510	40.96	5489.76	5530.72	
		5550	40.16	5529.76	5569.92	
		5670	40.96	5649.60	5690.56	
		5755	40.64	5734.76	5775.40	
		5795	40.48	5774.68	5815.16	
11ac80SISO	Ant1	5210	84.32	5167.76	5252.08	Reporting only
		5290	82.56	5248.56	5331.12	
		5530	82.08	5488.72	5570.80	
		5775	82.08	5733.88	5815.96	

Remark:

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

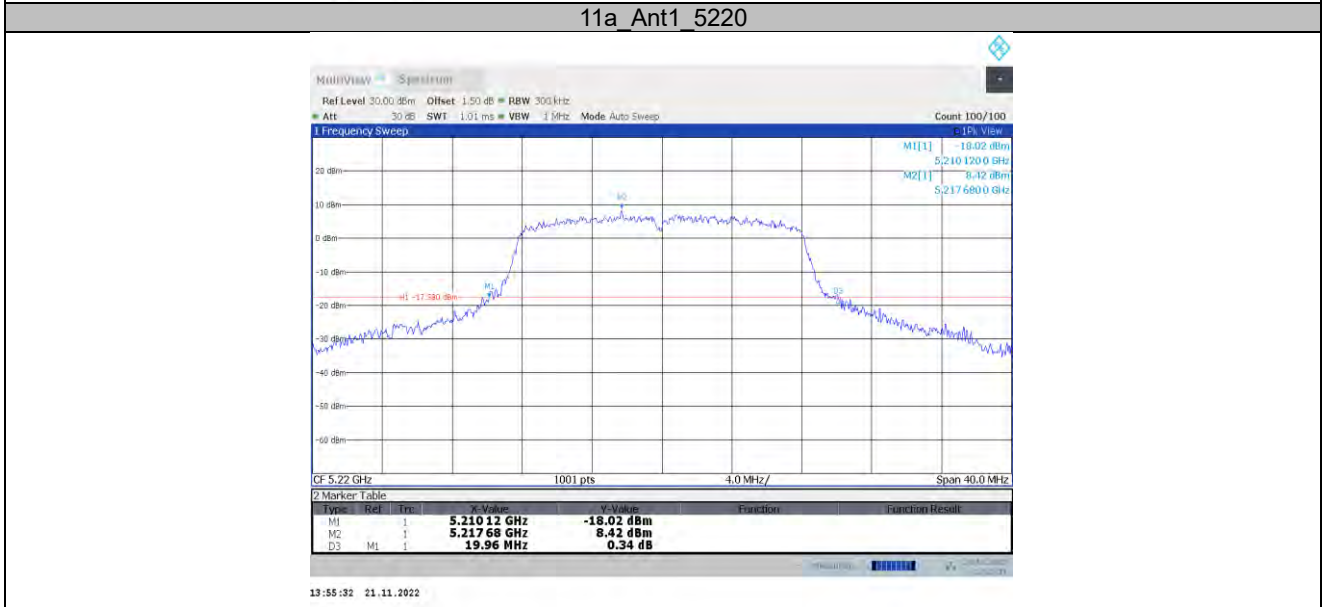
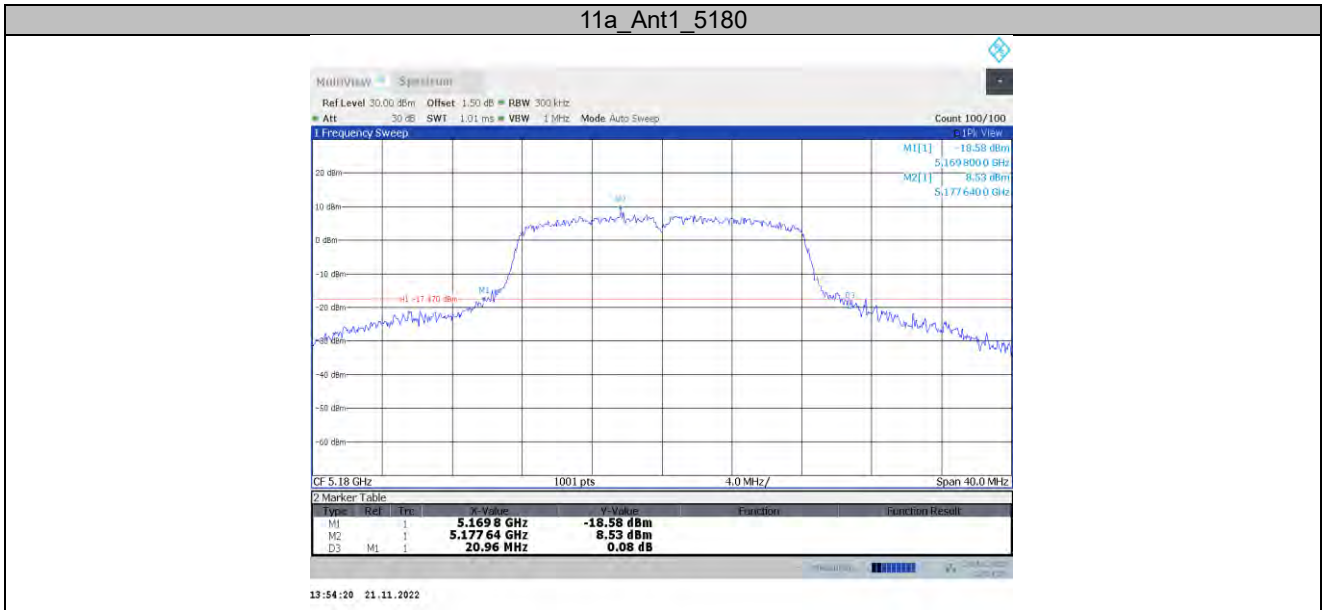


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Test Graphs



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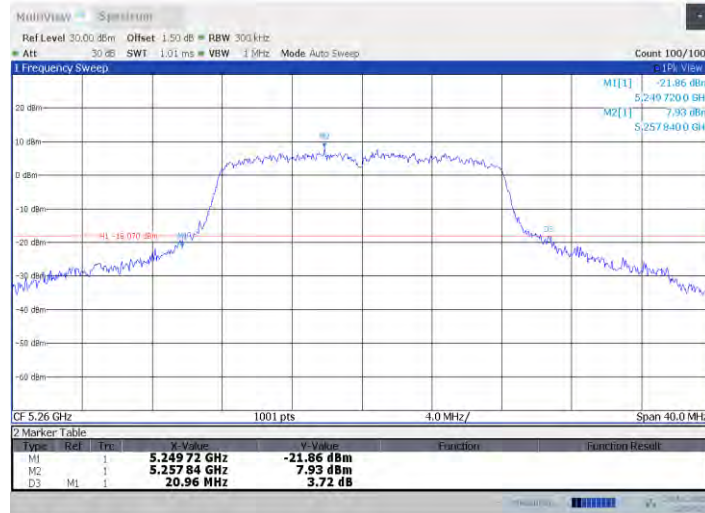
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11a Ant1 5240



13:58:23 21.11.2022

11a Ant1 5260



13:59:26 21.11.2022



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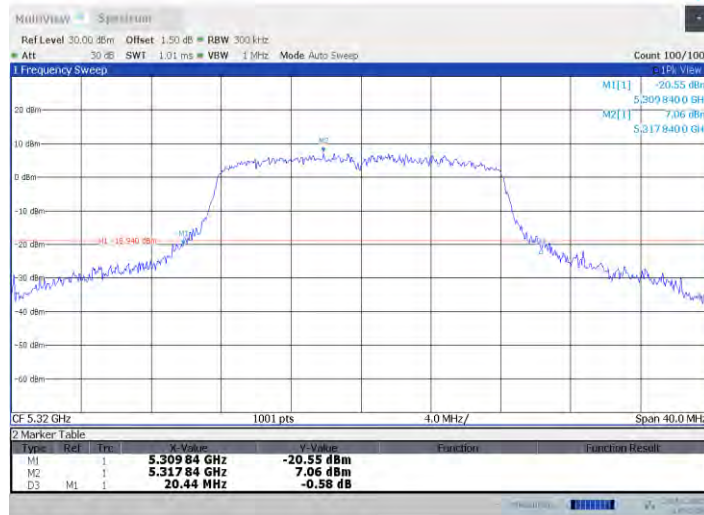
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11a Ant1 5300



14:00:27 21.11.2022

11a Ant1 5320



14:05:58 21.11.2022



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11a Ant1 5500



14:36:37 21.11.2022

11a Ant1 5580



14:51:11 21.11.2022

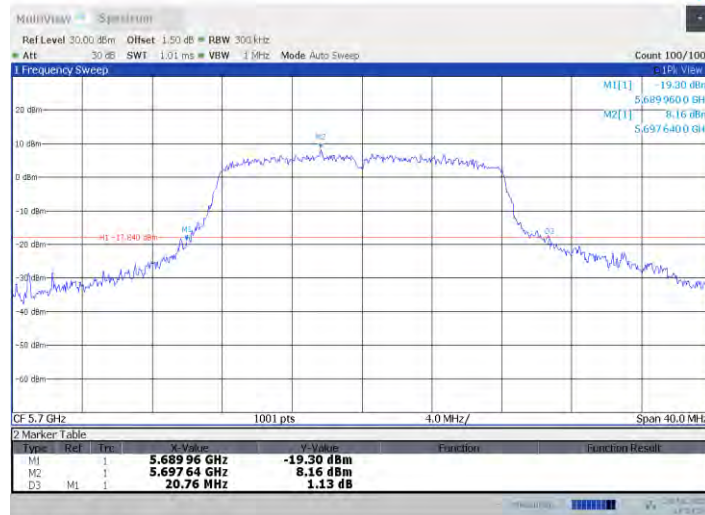


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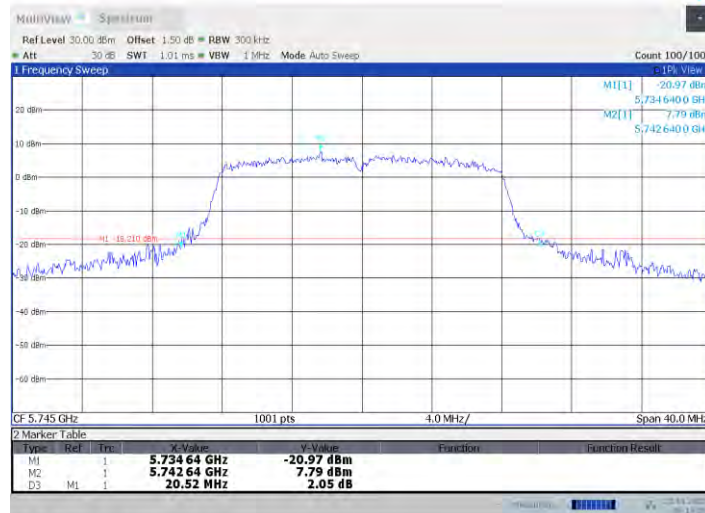
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11a Ant1 5700



14:54:16 21.11.2022

11a Ant1 5745



06:19:19 22.11.2022

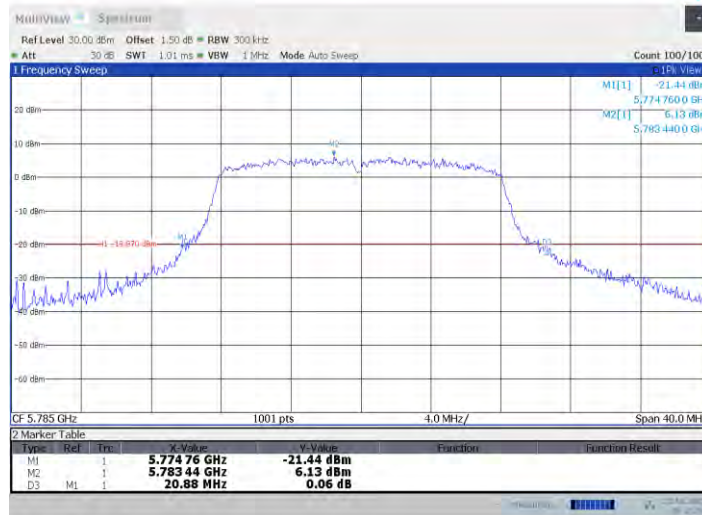


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06:21:05 22.11.2022

11a Ant1 5825



06:22:08 22.11.2022



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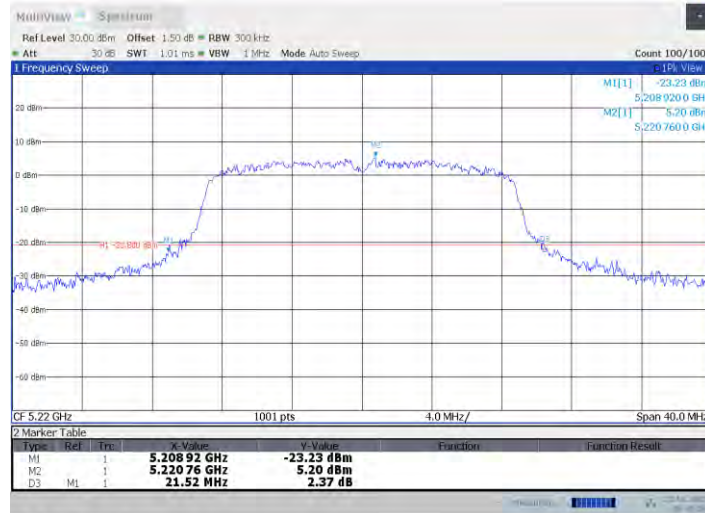
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11n20SISO Ant1 5180



06:25:06 22.11.2022

11n20SISO Ant1 5220



06:30:59 22.11.2022

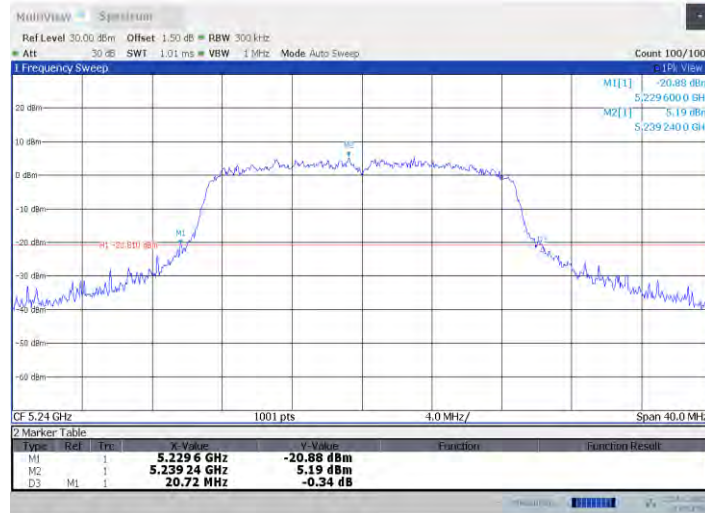


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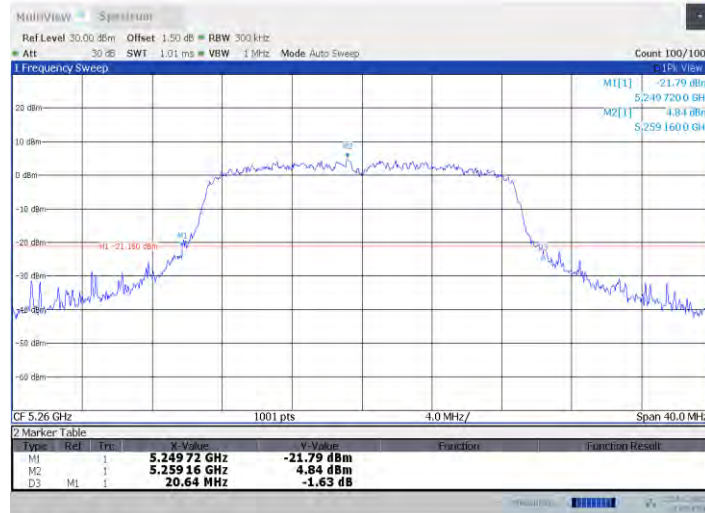
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11n20SISO Ant1 5240



07:03:03 22.11.2022

11n20SISO Ant1 5260



07:04:01 22.11.2022

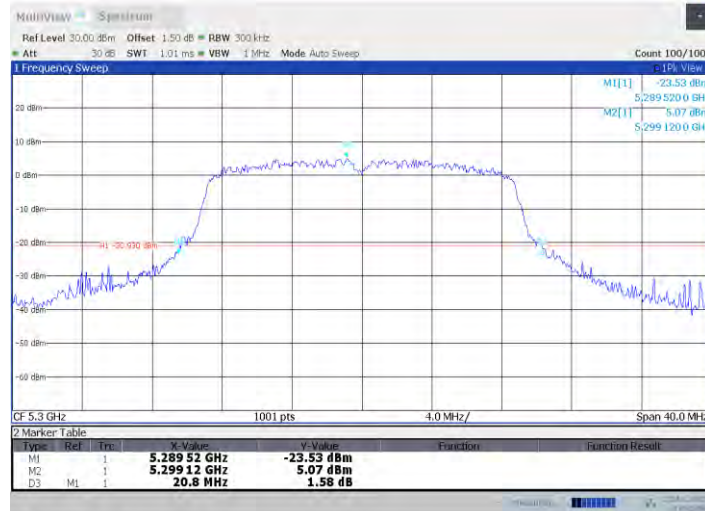


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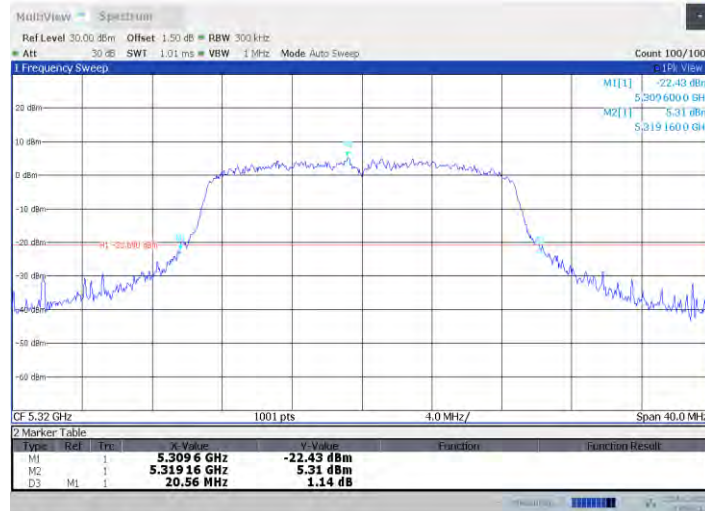
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07:05:09 22.11.2022

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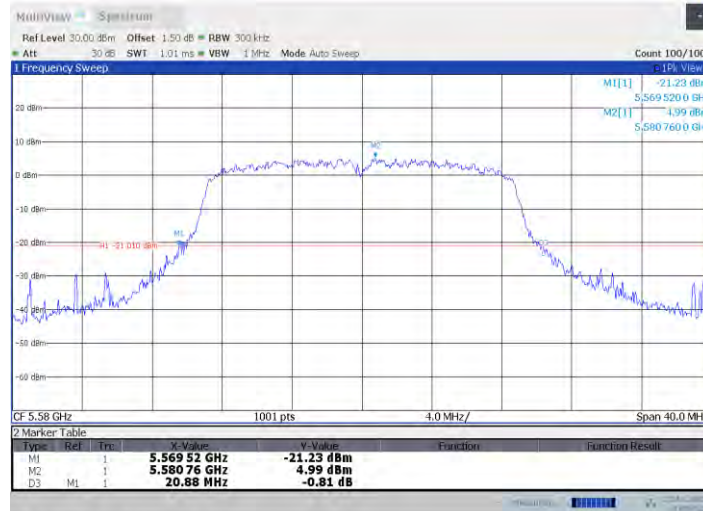
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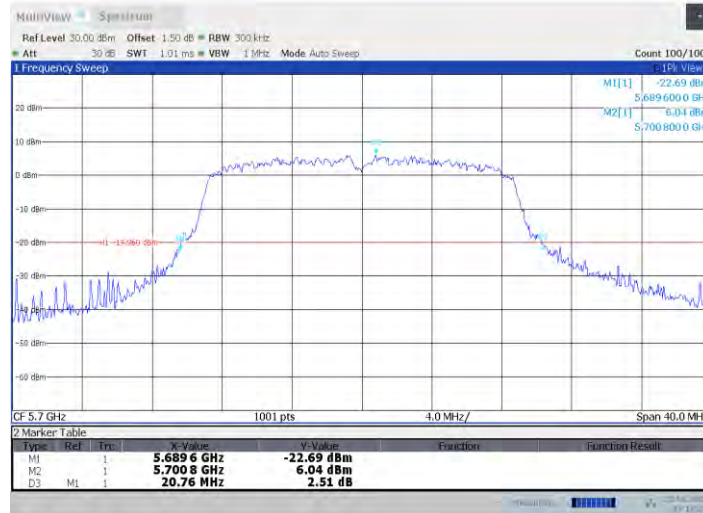


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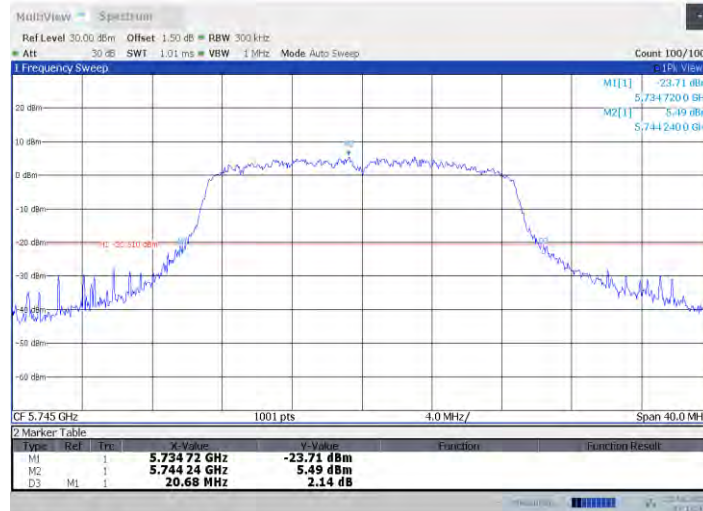
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07:10:23 22.11.2022

11n20SISO Ant1 5745



07:11:41 22.11.2022

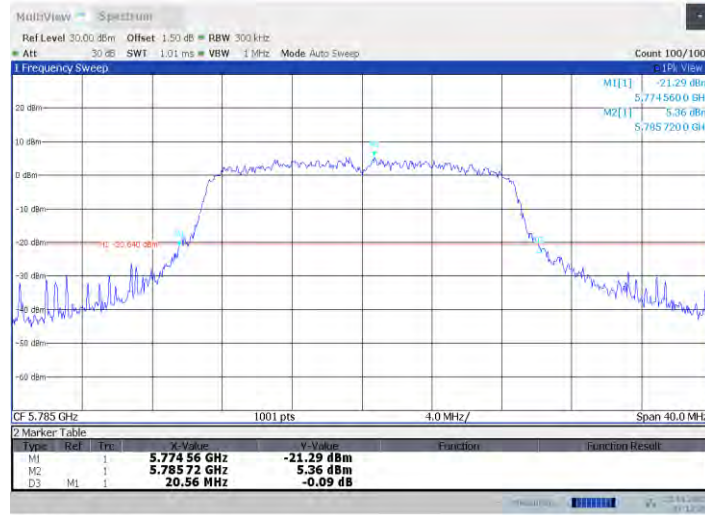


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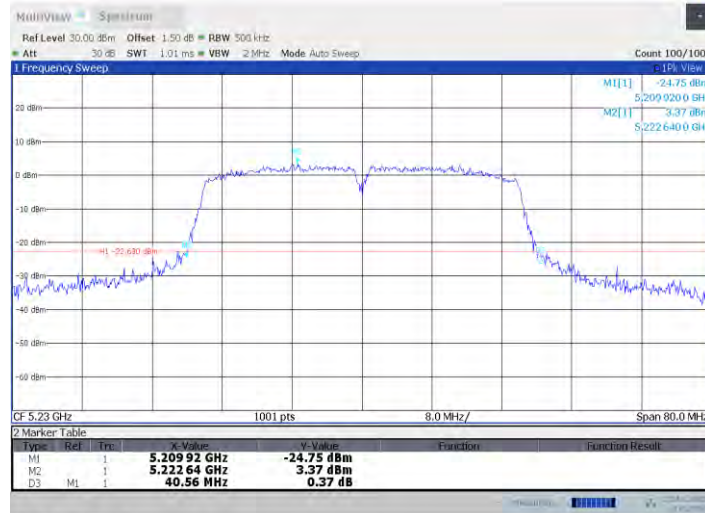
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07:20:07 22.11.2022



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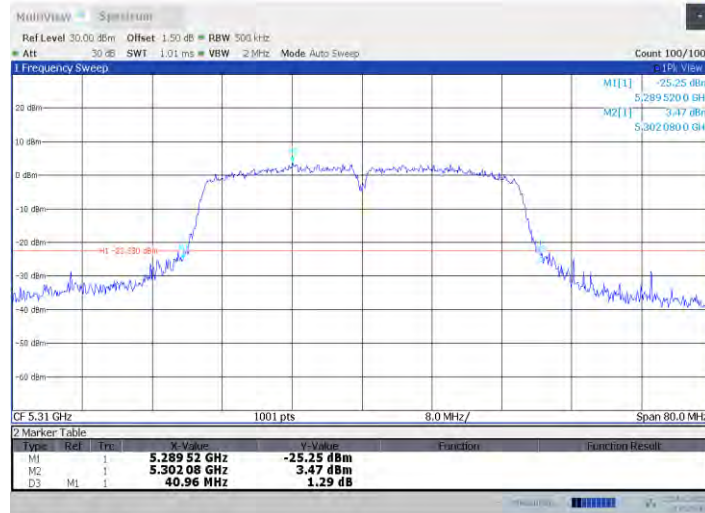
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11n40SISO Ant1 5270



07:25:27 22.11.2022

11n40SISO Ant1 5310



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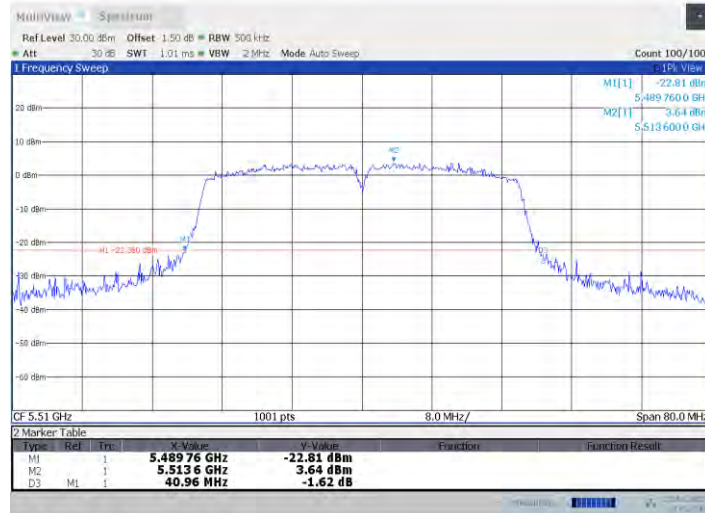


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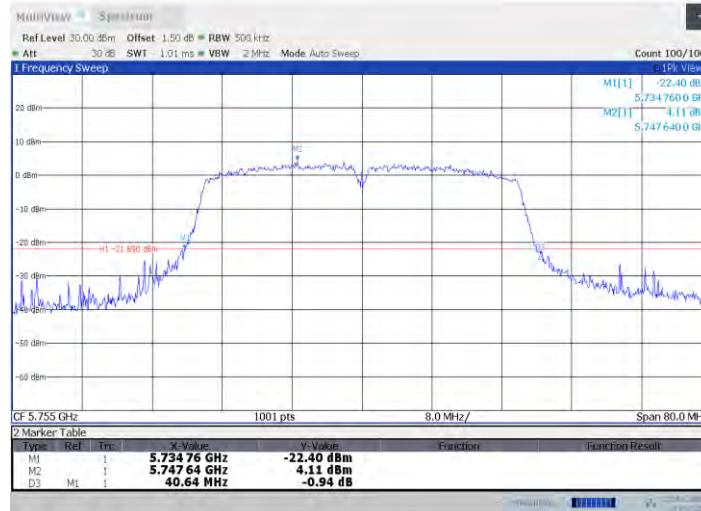
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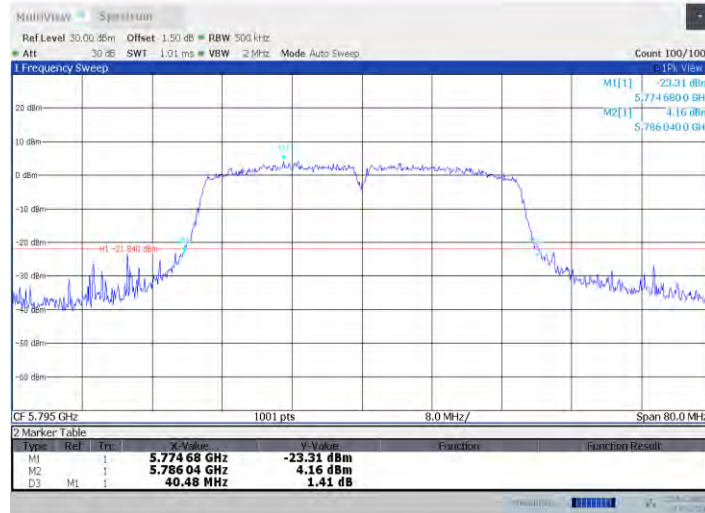


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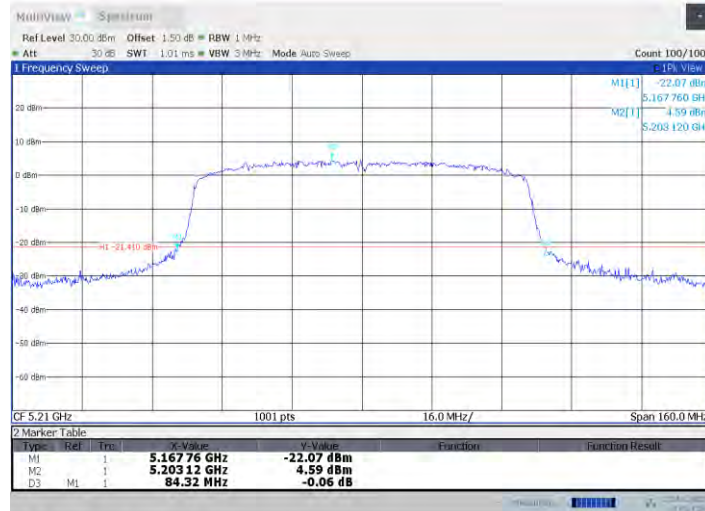
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11n40SISO Ant1 5795



07:32:52 22.11.2022

11ac80SISO Ant1 5210



07:34:19 22.11.2022

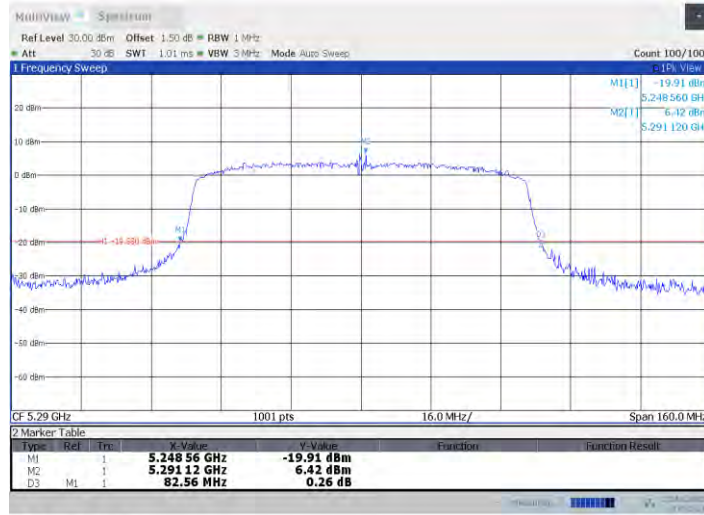


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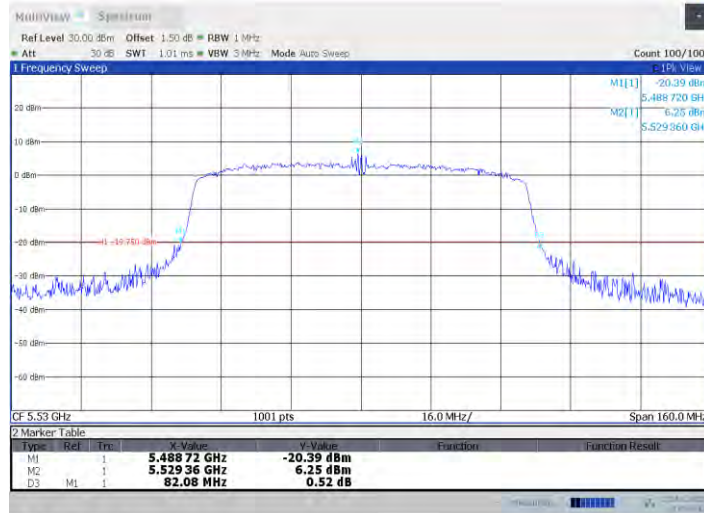
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11ac80SISO Ant1 5290



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11ac80SISO Ant1 5530



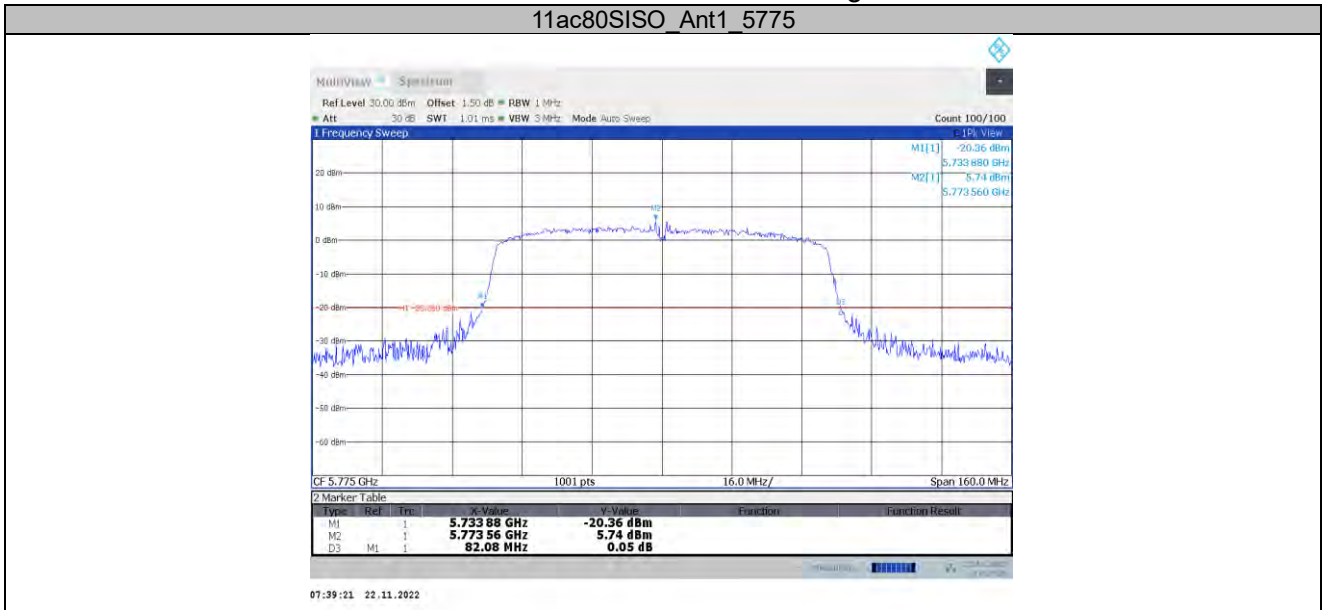
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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant1	5180	16.596	5171.680	5188.276	Reporting only
		5220	16.552	5211.692	5228.245	
		5240	16.534	5231.708	5248.242	
		5260	16.573	5251.682	5268.255	
		5300	16.536	5291.696	5308.233	
		5320	16.531	5311.697	5328.228	
		5500	16.51	5491.718	5508.228	
		5580	16.537	5571.690	5588.226	
		5700	16.569	5691.676	5708.245	
		5745	16.652	5736.617	5753.269	
		5785	16.518	5776.691	5793.208	
		5825	16.541	5816.680	5833.222	
11n20SISO	Ant1	5180	17.555	5171.201	5188.756	Reporting only
		5220	17.584	5211.174	5228.758	
		5240	17.562	5231.191	5248.753	
		5260	17.557	5251.171	5268.728	
		5300	17.548	5291.185	5308.733	
		5320	17.551	5311.183	5328.734	
		5500	17.537	5491.195	5508.732	
		5580	17.54	5571.186	5588.727	
		5700	17.57	5691.173	5708.744	
		5745	17.563	5736.168	5753.731	
		5785	17.583	5776.159	5793.742	
		5825	17.569	5816.163	5833.732	
11n40SISO	Ant1	5190	36.224	5171.967	5208.190	Reporting only
		5230	36.196	5211.914	5248.110	
		5270	36.185	5251.912	5288.097	
		5310	36.2	5291.920	5328.120	
		5510	36.175	5491.931	5528.106	
		5550	36.217	5531.892	5568.109	
		5670	36.187	5651.925	5688.112	
		5755	36.199	5736.899	5773.098	
		5795	36.189	5776.903	5813.092	
11ac80SISO	Ant1	5210	74.79	5172.671	5247.461	Reporting only
		5290	74.894	5252.534	5327.428	
		5530	74.777	5492.494	5567.272	
		5775	74.808	5737.447	5812.255	

Remark:

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

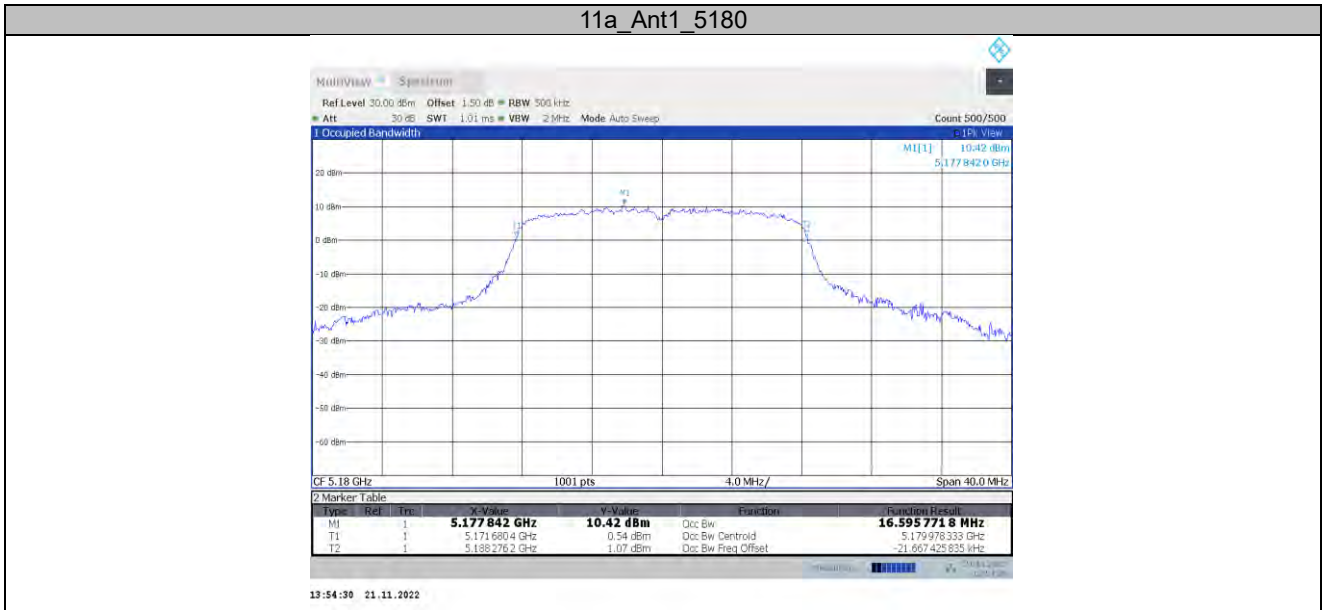


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Test Graphs

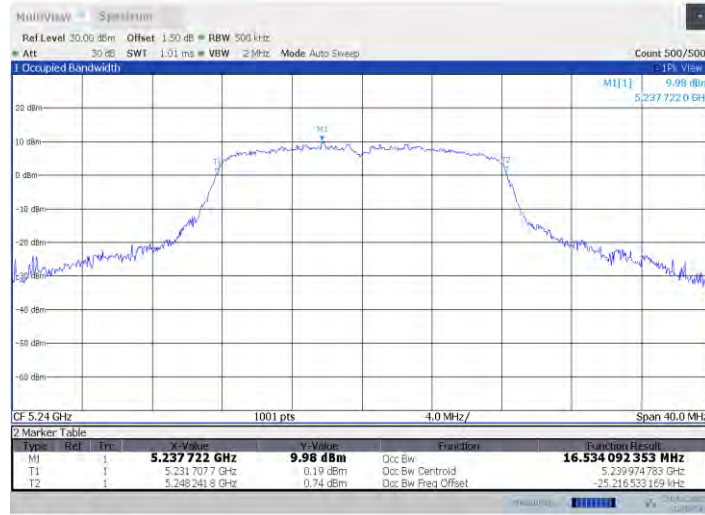


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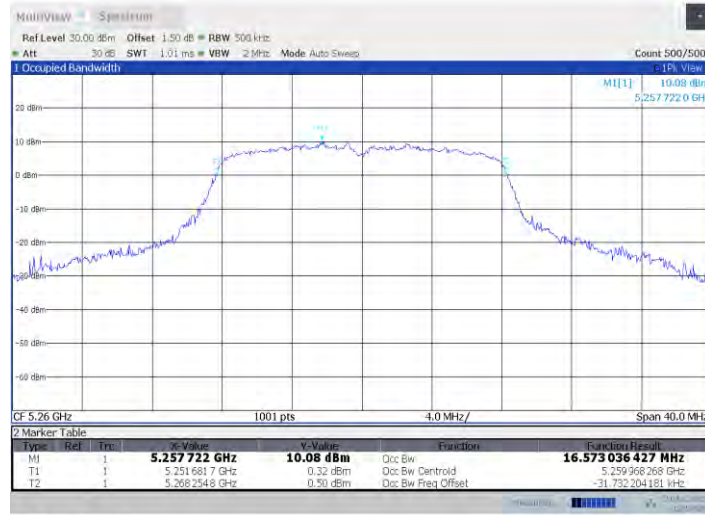
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11a_Ant1_5240



13:58:34 21.11.2022

11a_Ant1_5260



13:59:36 21.11.2022

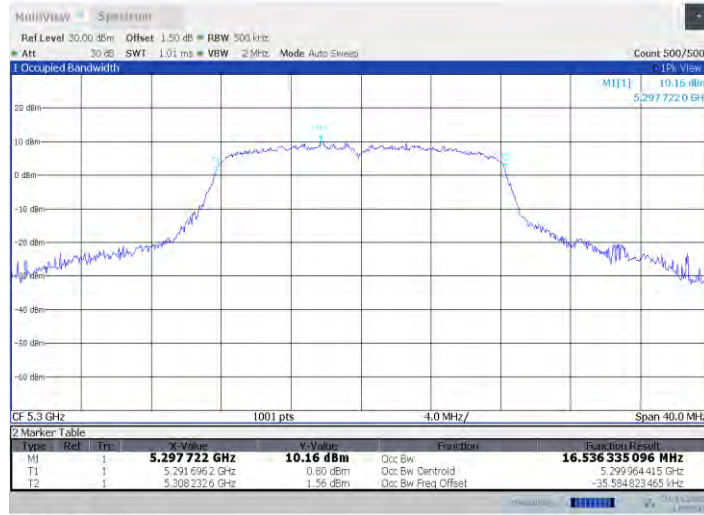


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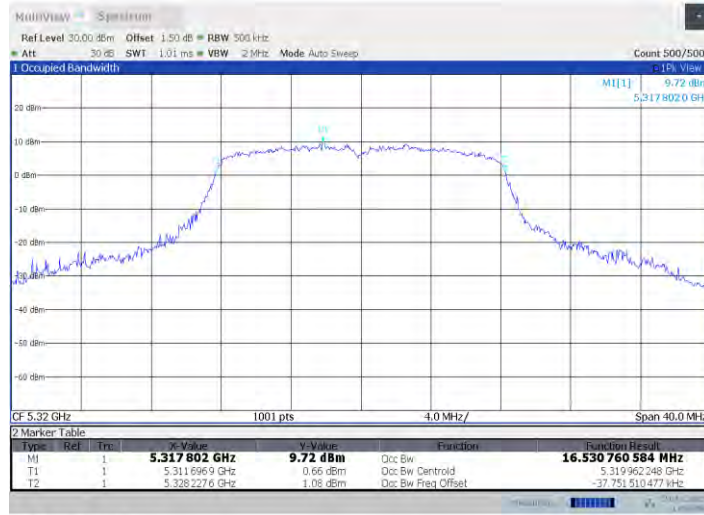
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11a Ant1 5300



14:00:37 21.11.2022

11a Ant1 5320



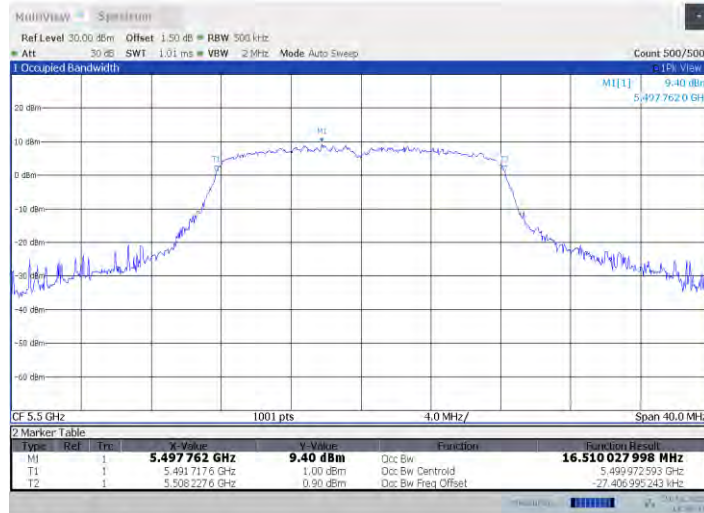
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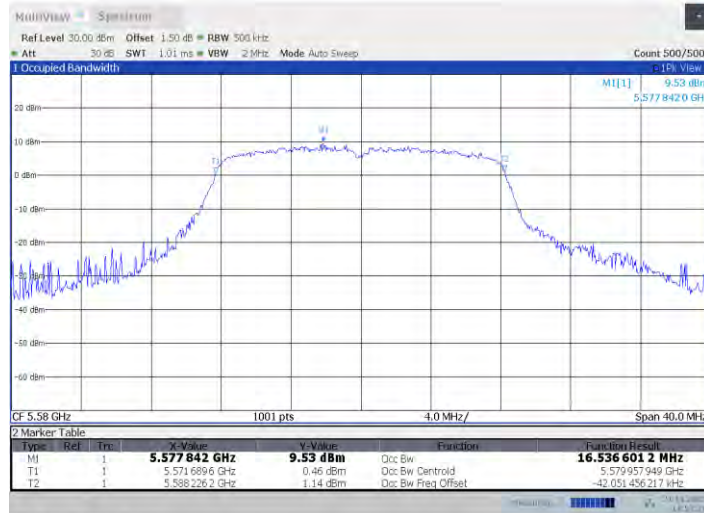
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11a_Ant1_5580

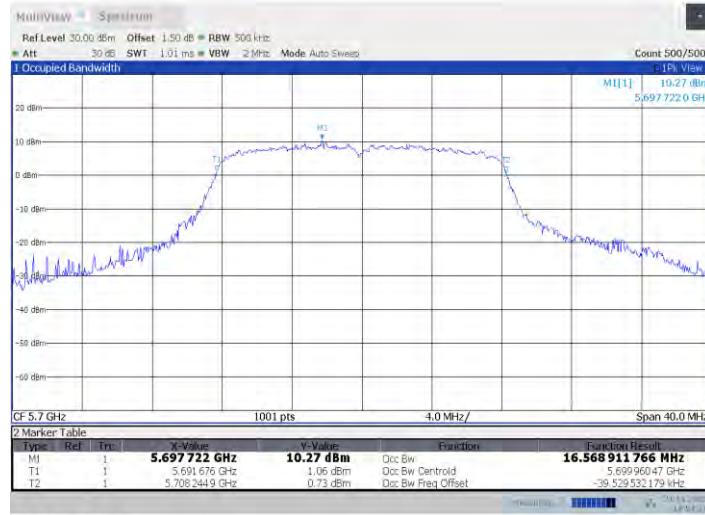


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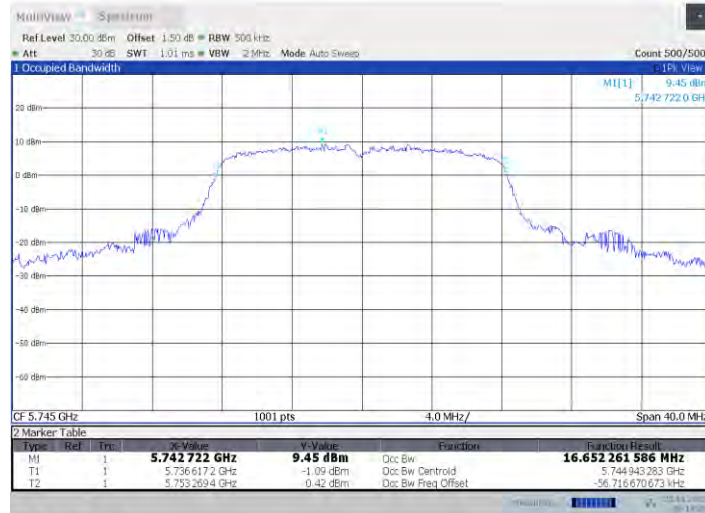
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11a Ant1 5700



14:54:27 21.11.2022

11a Ant1 5745



06:19:37 22.11.2022

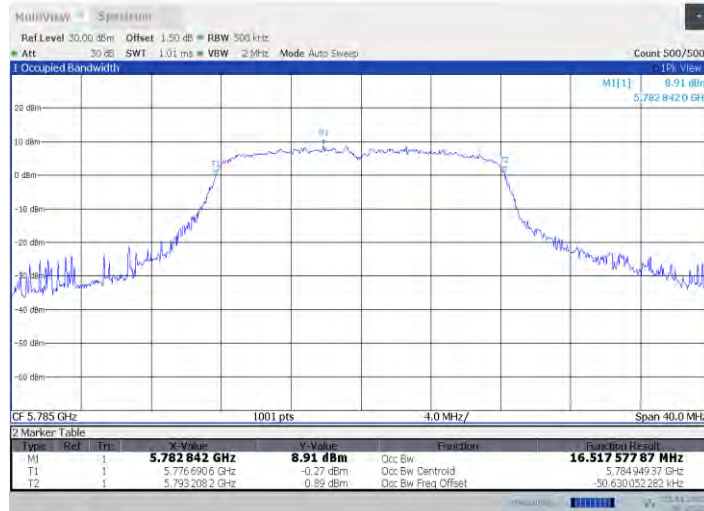


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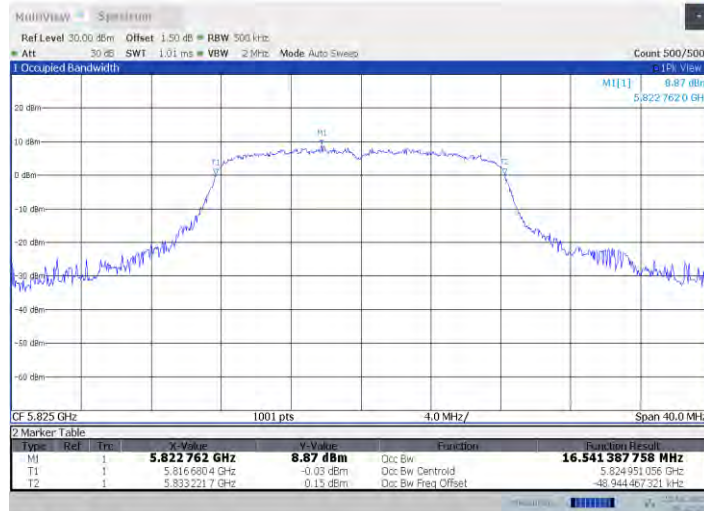
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11a Ant1 5785



06:21:22 22.11.2022

11a Ant1 5825



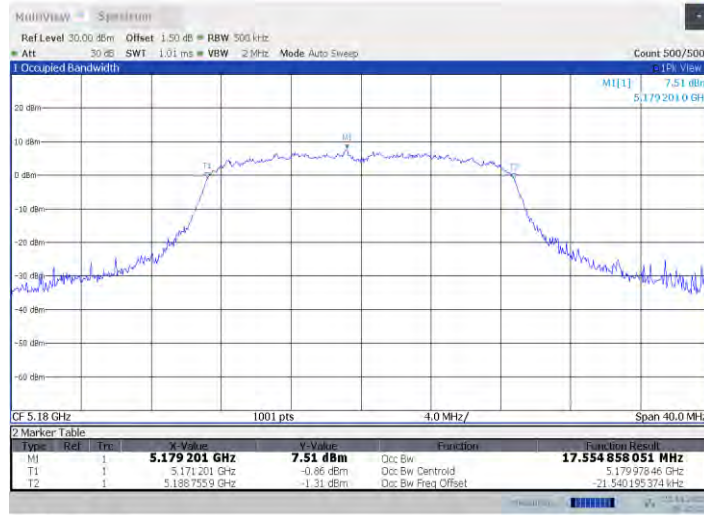
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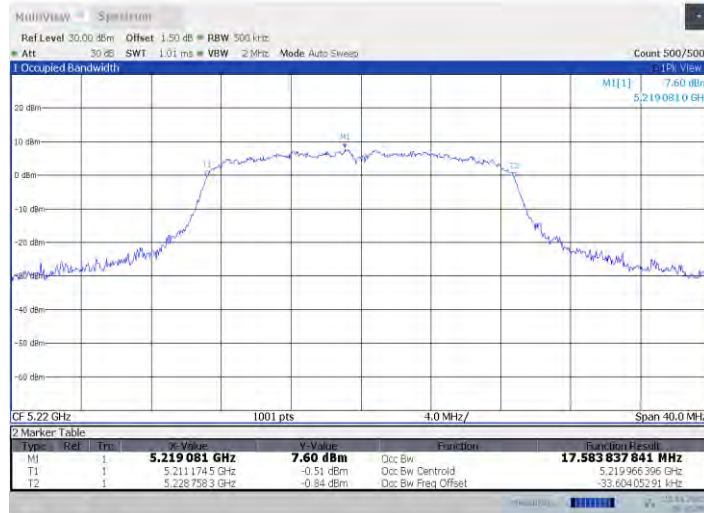
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11n20SISO Ant1 5180



06:25:16 22.11.2022

11n20SISO Ant1 5220



06:31:10 22.11.2022



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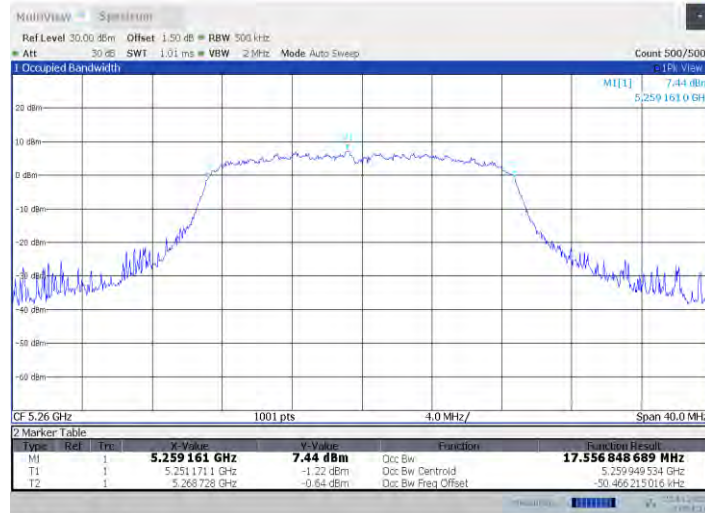
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11n20SISO Ant1 5240



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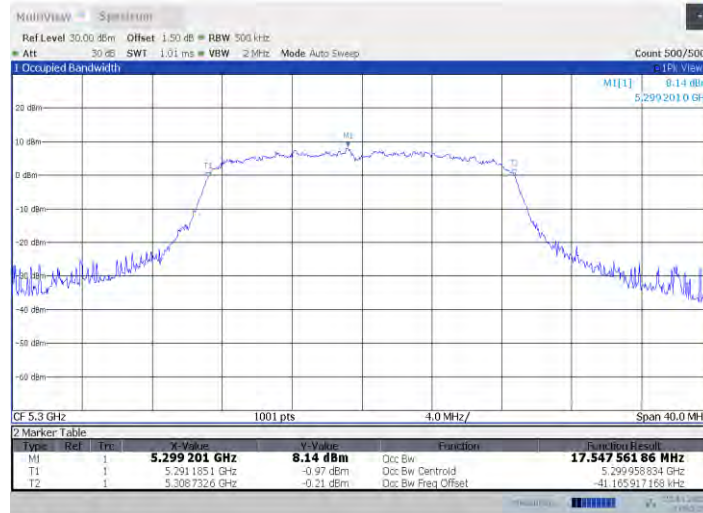


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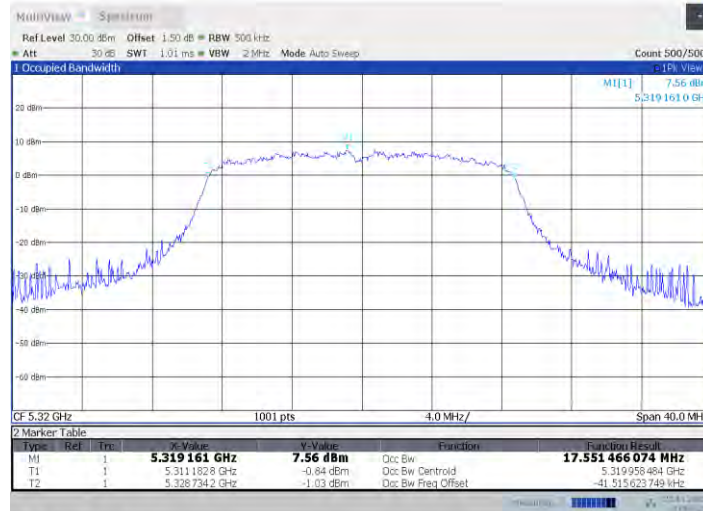
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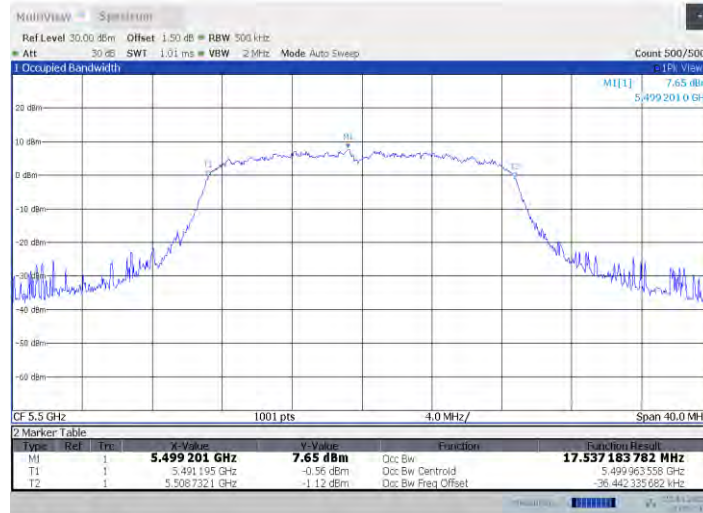


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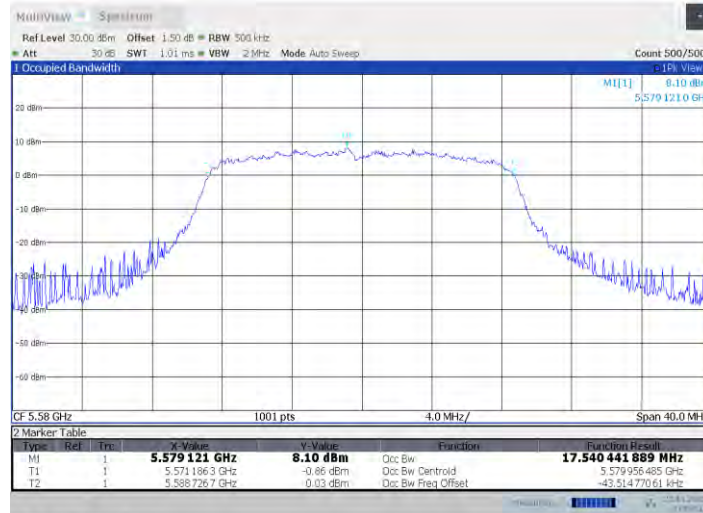
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11n20SISO Ant1 5580



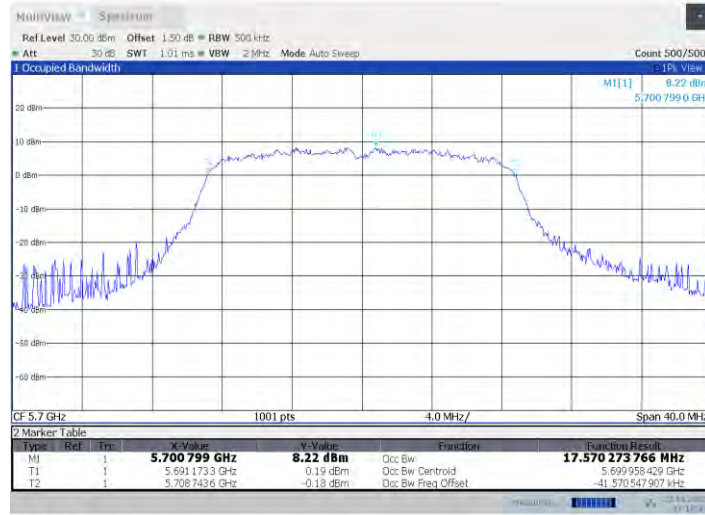
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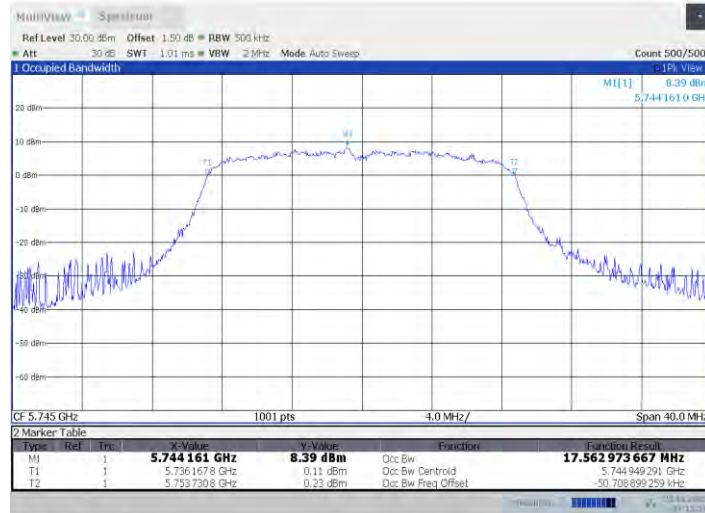
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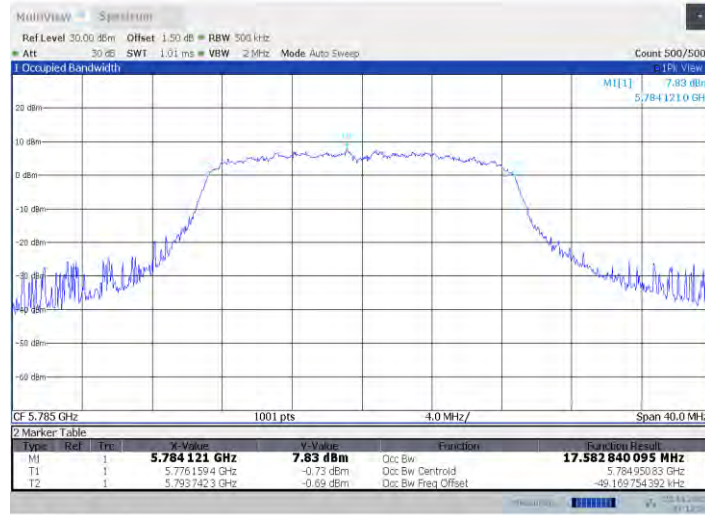


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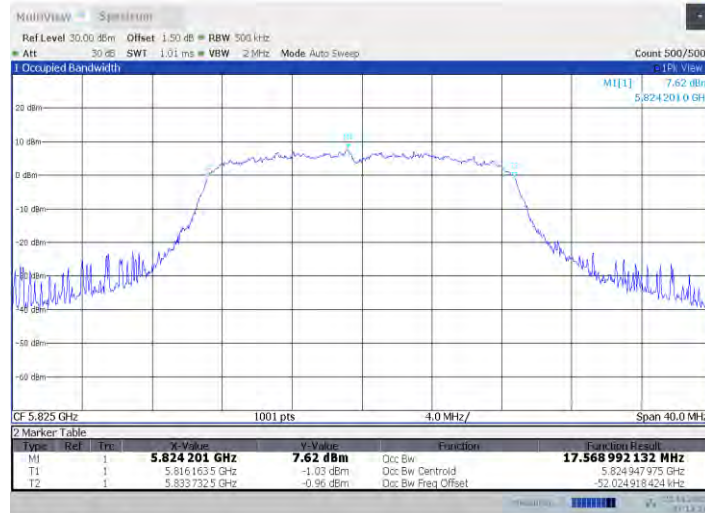
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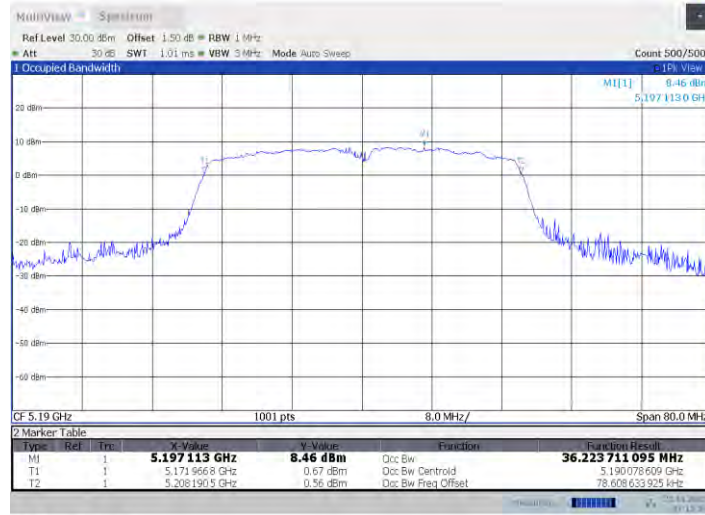


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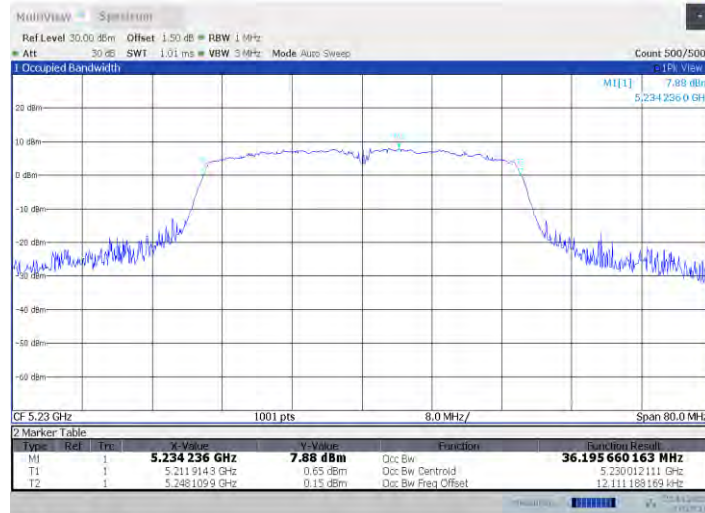
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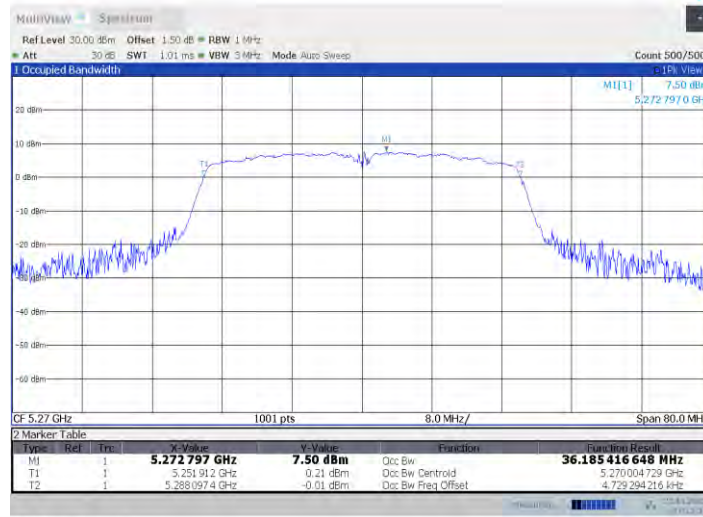
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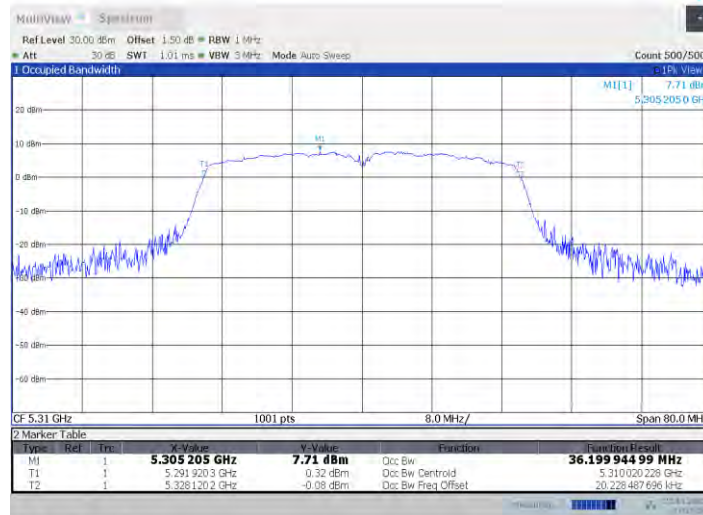


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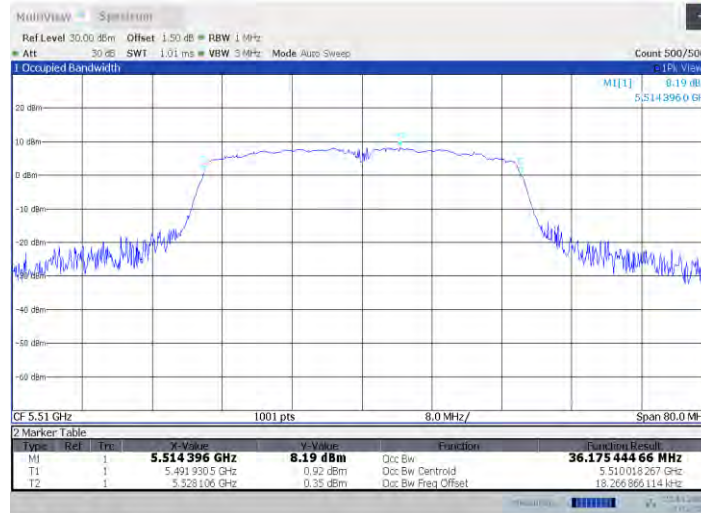


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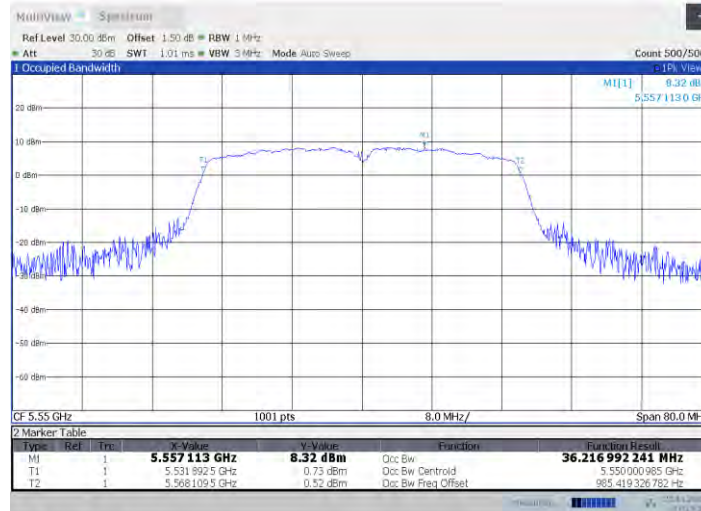
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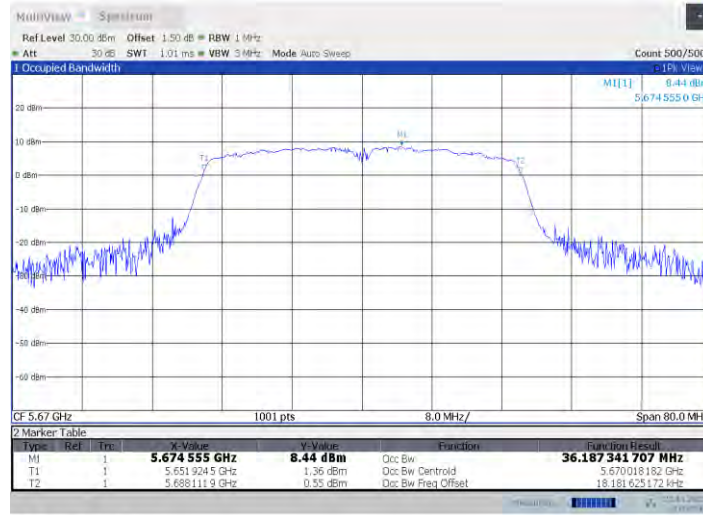


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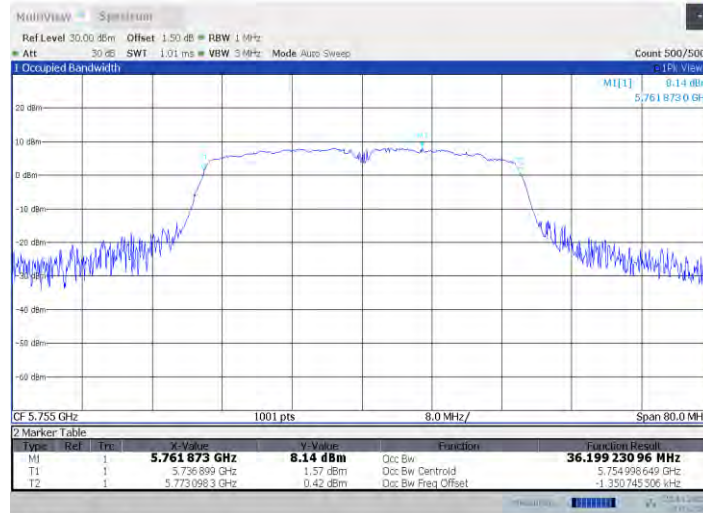
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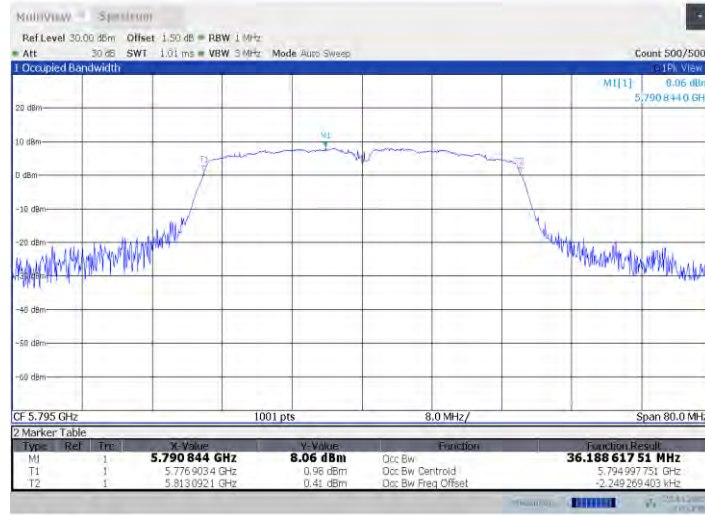


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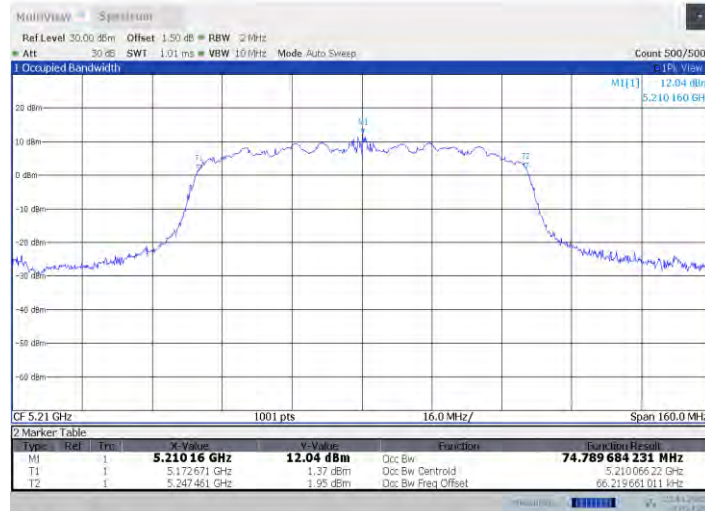
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11ac80SISO Ant1 5210



07:34:29 22.11.2022

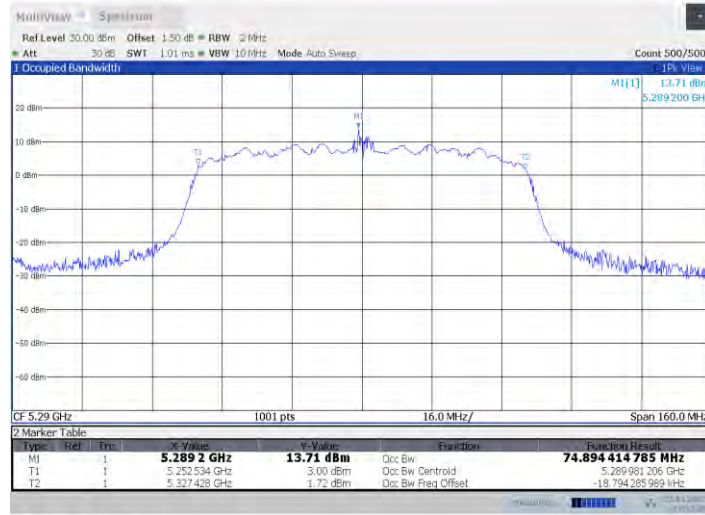


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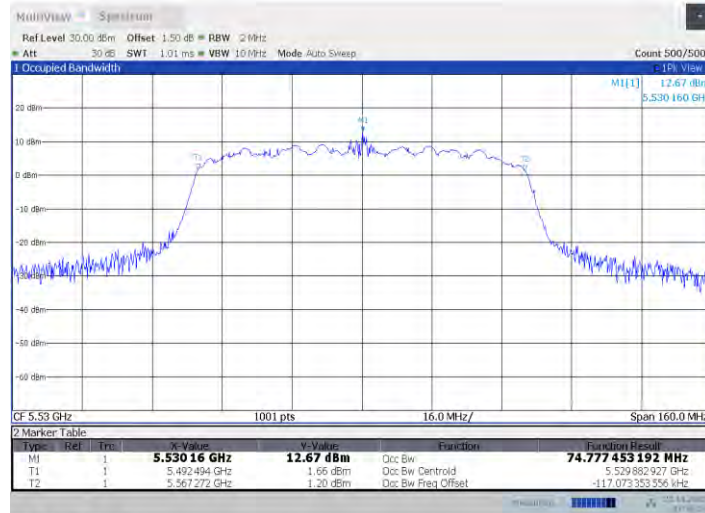
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11ac80SISO Ant1 5290



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11ac80SISO Ant1 5530



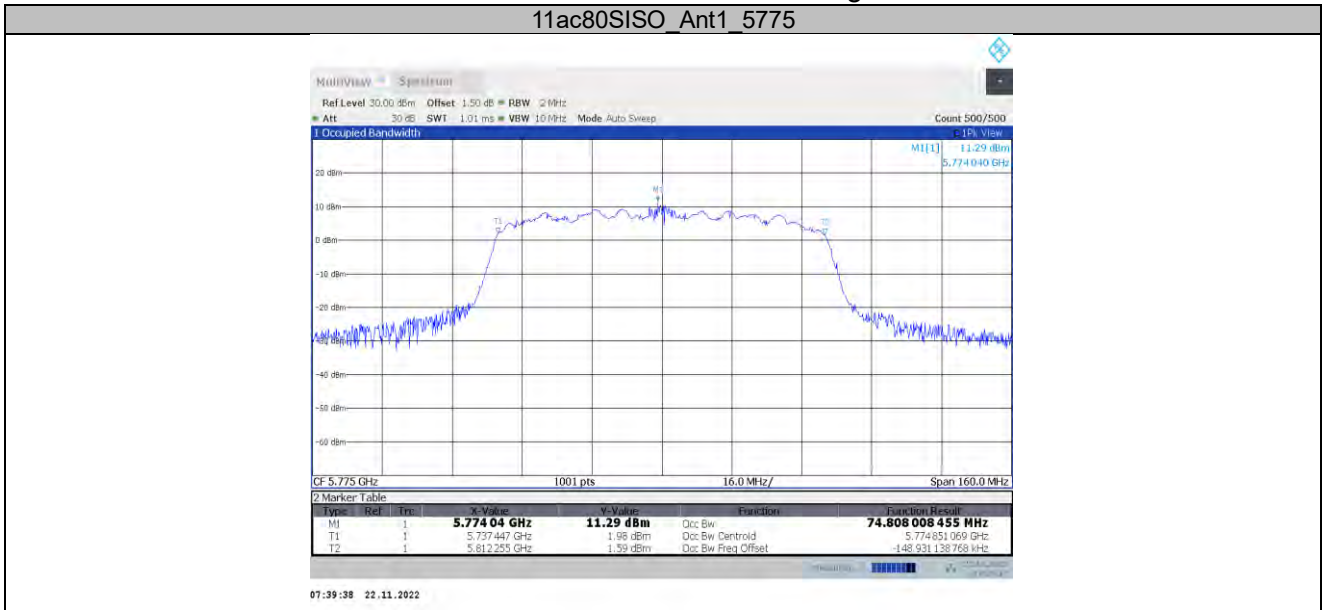
07:36:54 22.11.2022



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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	Ant1	5745	15.20	5737.36	5752.56	≥0.5	PASS
		5785	15.40	5777.16	5792.56	≥0.5	PASS
		5825	15.20	5817.36	5832.56	≥0.5	PASS
11n20SISO	Ant1	5745	16.60	5736.52	5753.12	≥0.5	PASS
		5785	15.16	5777.40	5792.56	≥0.5	PASS
		5825	14.32	5818.24	5832.56	≥0.5	PASS
11n40SISO	Ant1	5755	35.28	5737.32	5772.60	≥0.5	PASS
		5795	33.92	5777.40	5811.32	≥0.5	PASS
11ac80SISO	Ant1	5775	75.36	5737.24	5812.60	≥0.5	PASS

Remark:

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

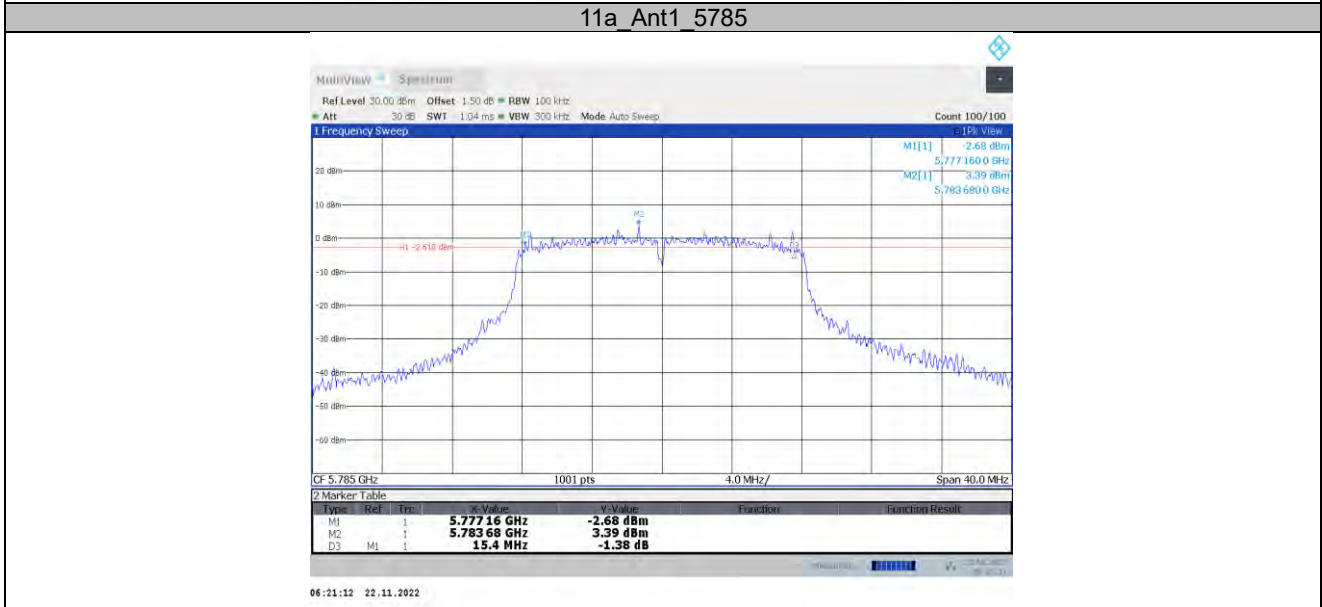
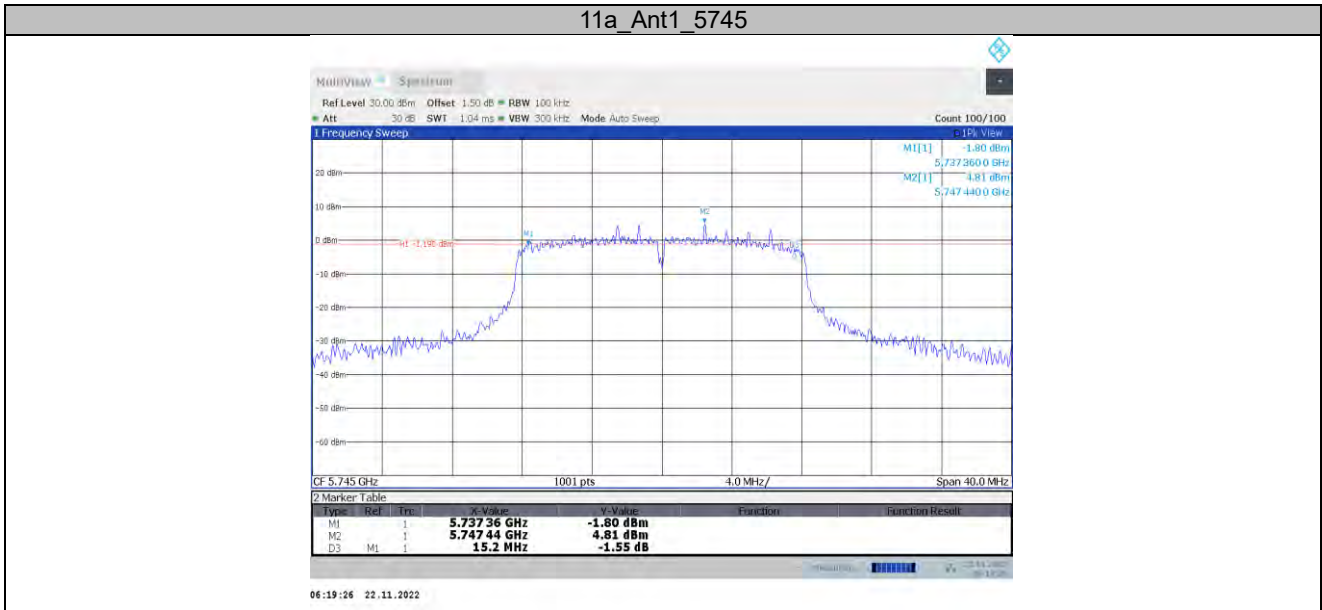


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Test Graphs B4

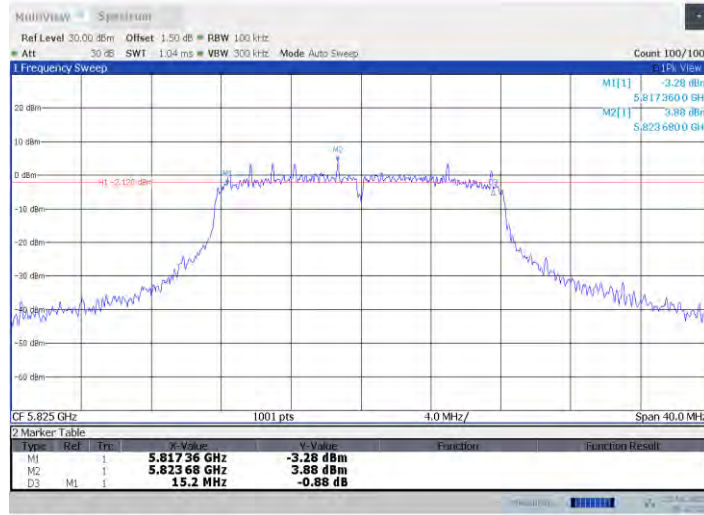


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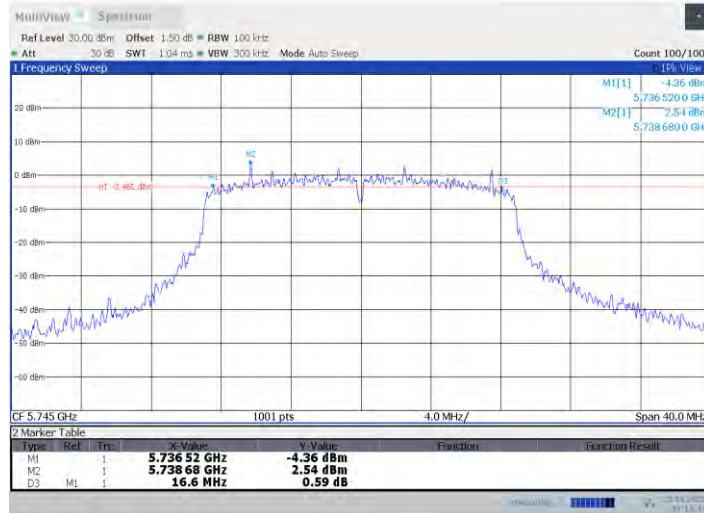
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11a Ant1 5825



06:22:15 22.11.2022

11n20SISO Ant1 5745



07:11:48 22.11.2022

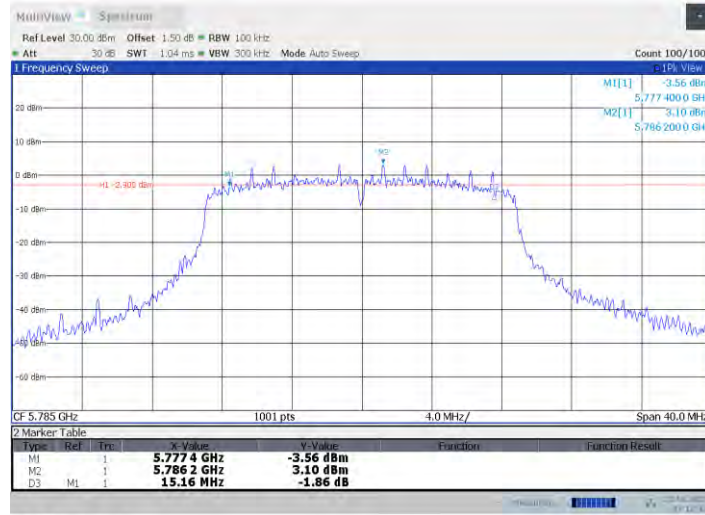


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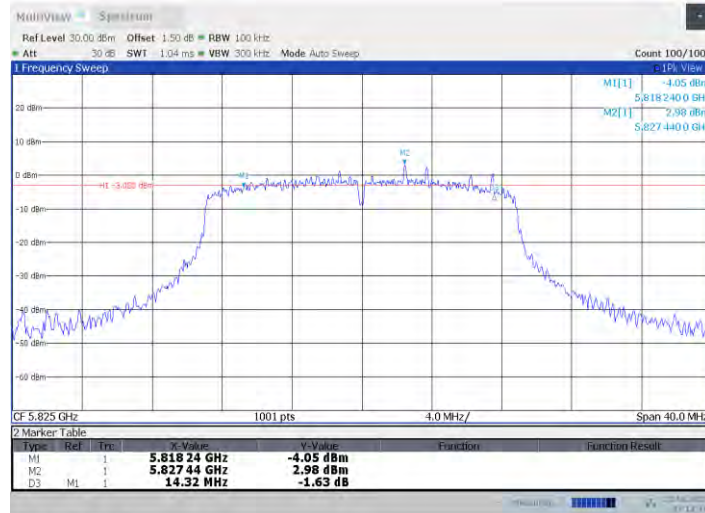
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11n20SISO Ant1 5785



07:12:44 22.11.2022

11n20SISO Ant1 5825



07:13:41 22.11.2022

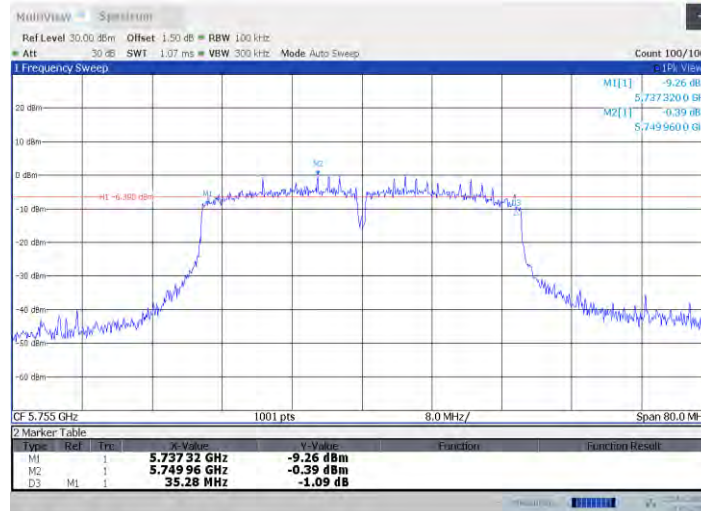


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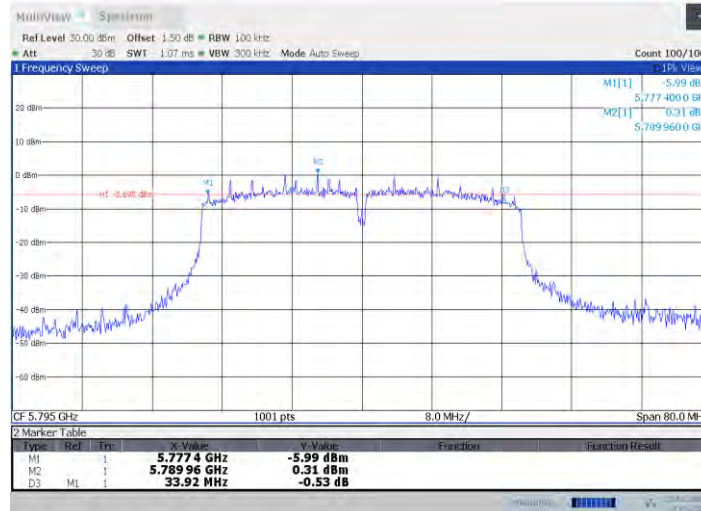
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11n40SISO Ant1 5755



07:32:08 22.11.2022

11n40SISO Ant1 5795



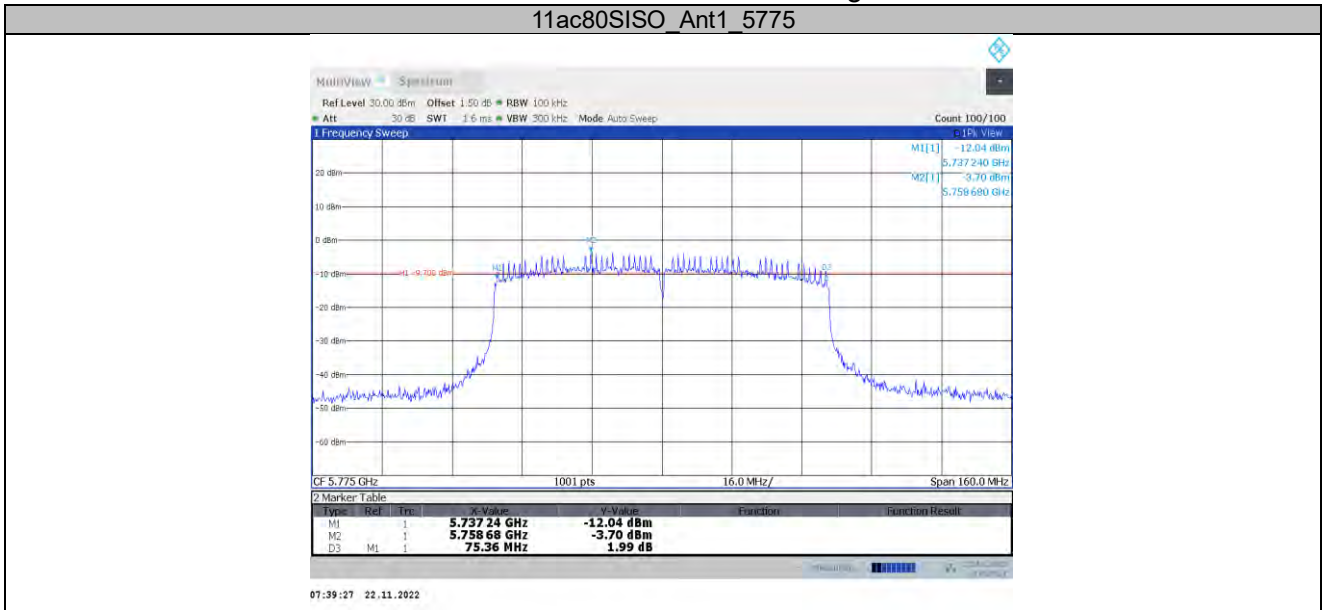
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**Duty Cycle
 Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant1	5180	2.06	2.27	90.75
11n20SISO	Ant1	5180	1.92	2.08	92.31
11n40SISO	Ant1	5190	0.95	1.12	84.82
11ac20SISO	Ant1	5180	1.94	2.11	91.94
11ac40SISO	Ant1	5190	0.96	1.11	86.49
11ac80SISO	Ant1	5210	0.46	0.64	71.88

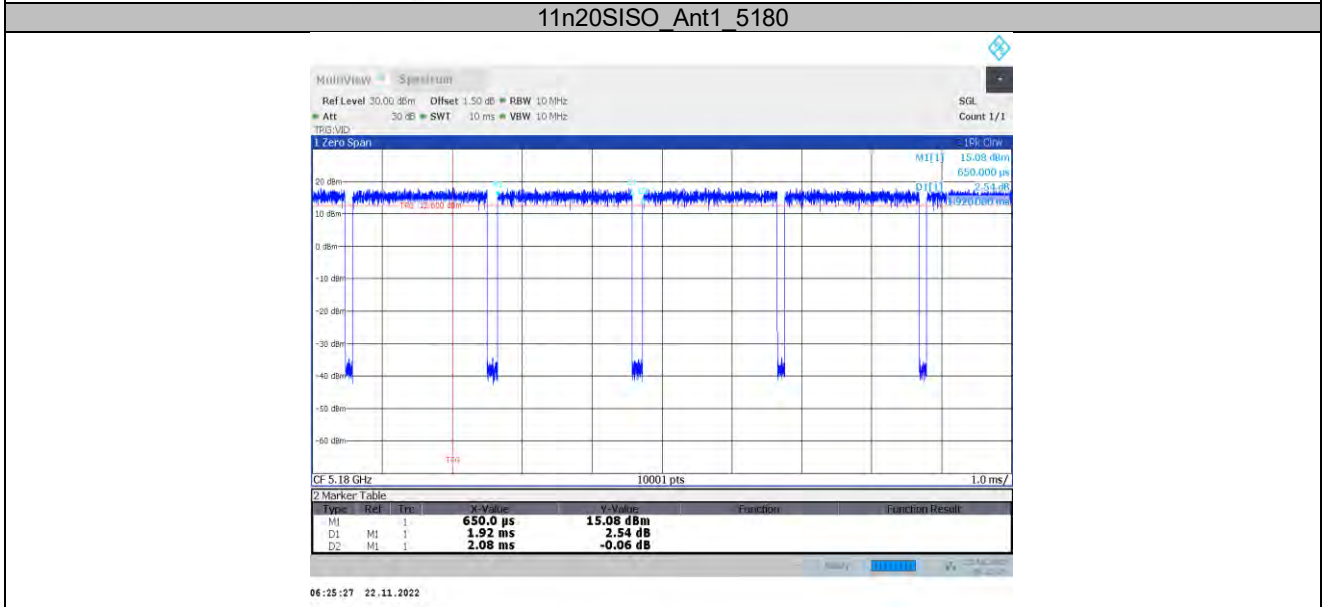
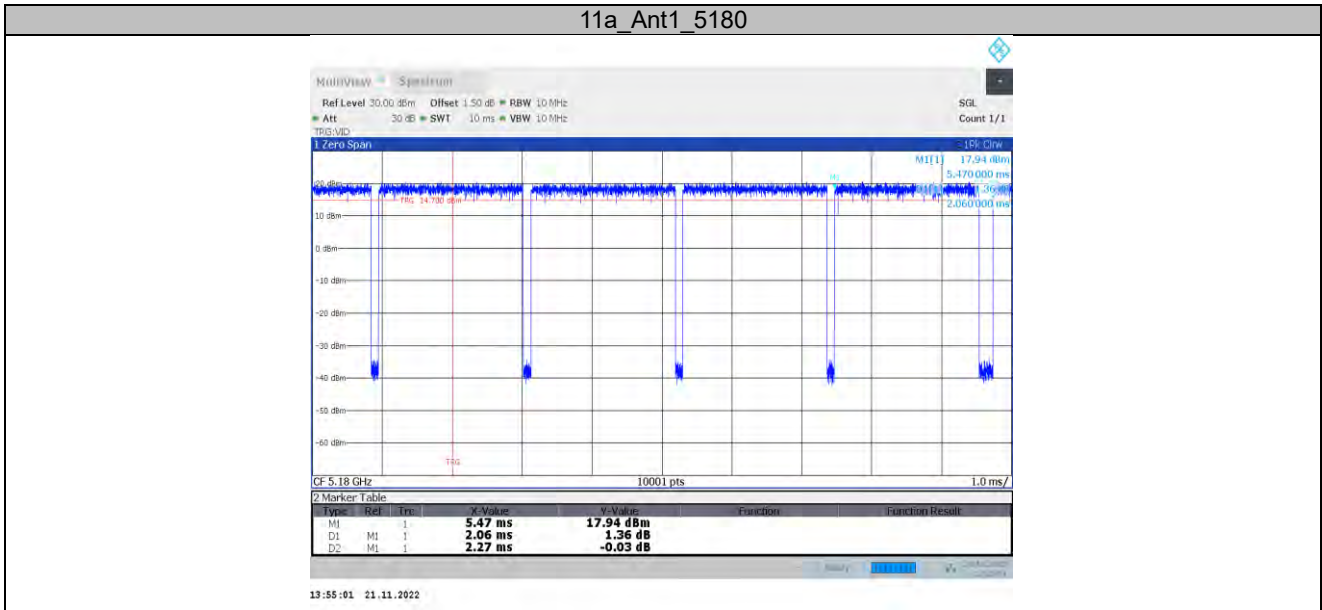


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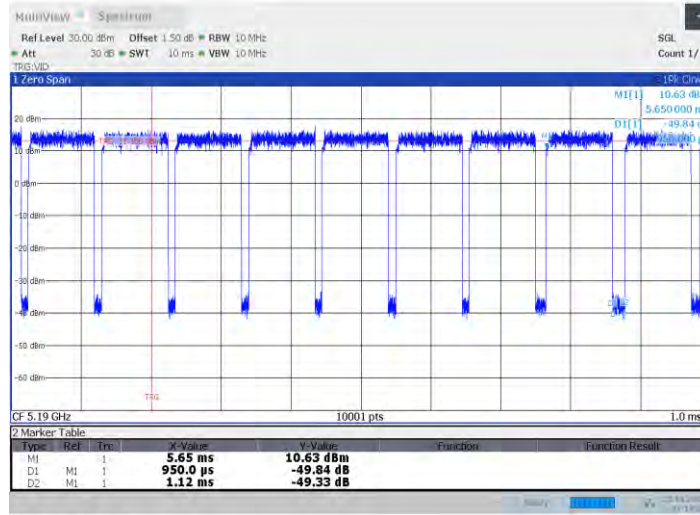
Test Graphs



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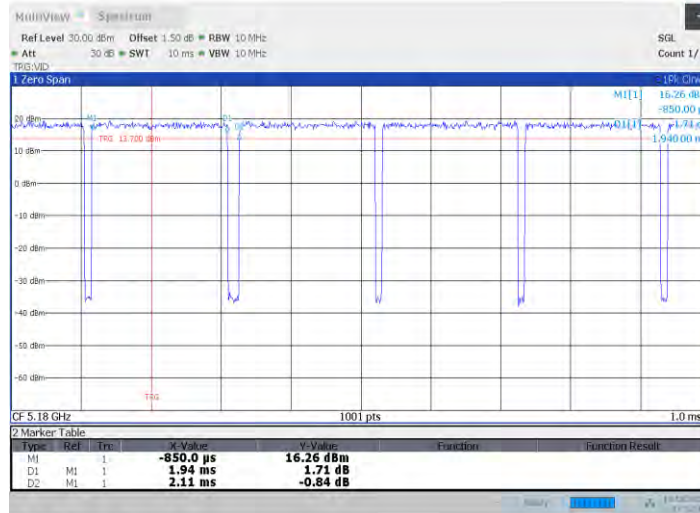
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11n40SISO Ant1 5190



07:19:39 22.11.2022

11ac20SISO Ant1 5180



07:52:47 14.12.2022

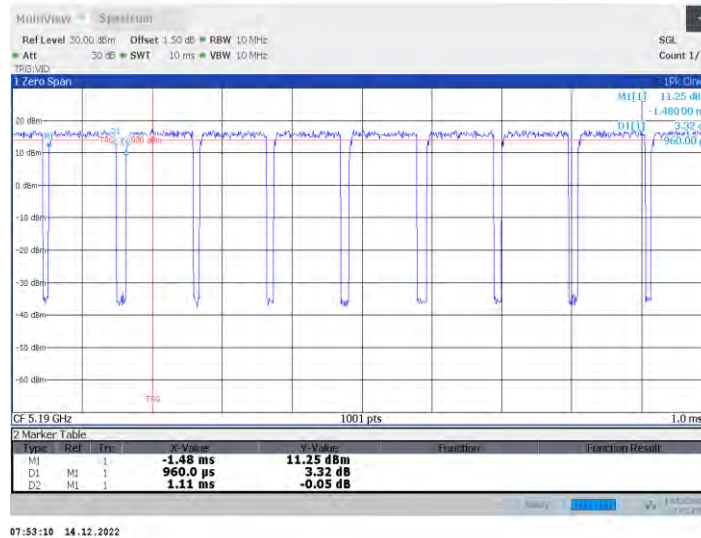


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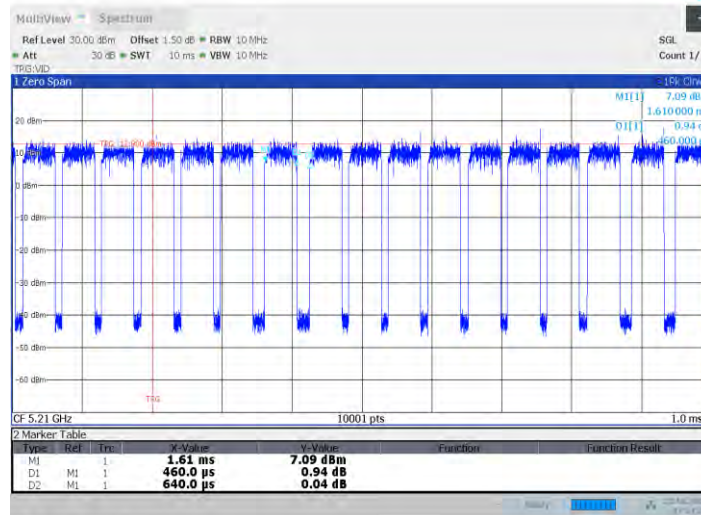
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11ac40SISO Ant1 5190



07:53:10 14.12.2022

11ac80SISO Ant1 5210



07:34:40 22.11.2022



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**Maximum conducted output power
Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11a	Ant1	5180	15.21	≤30.00	PASS
		5220	14.78	≤30.00	PASS
		5240	14.71	≤30.00	PASS
		5260	14.98	≤23.98	PASS
		5300	15.18	≤23.98	PASS
		5320	15.22	≤23.98	PASS
		5500	15.38	≤23.96	PASS
		5580	15.22	≤23.79	PASS
		5700	12.21	≤23.98	PASS
		5745	15.01	≤30.00	PASS
		5785	14.43	≤30.00	PASS
		5825	14.21	≤30.00	PASS
11n20SISO	Ant1	5180	13.65	≤30.00	PASS
		5220	13.29	≤30.00	PASS
		5240	13.23	≤30.00	PASS
		5260	13.49	≤23.98	PASS
		5300	13.68	≤23.98	PASS
		5320	13.62	≤23.98	PASS
		5500	13.59	≤23.98	PASS
		5580	13.47	≤23.98	PASS
		5700	12.59	≤23.98	PASS
		5745	13.42	≤30.00	PASS
		5785	13.11	≤30.00	PASS
		5825	12.87	≤30.00	PASS
11n40SISO	Ant1	5190	13.81	≤30.00	PASS
		5230	13.48	≤30.00	PASS
		5270	13.38	≤23.98	PASS
		5310	13.56	≤23.98	PASS
		5510	12.41	≤23.98	PASS
		5550	13.49	≤23.98	PASS
		5670	13.19	≤23.98	PASS
		5755	13.58	≤30.00	PASS
5795	13.13	≤30.00	PASS		
11ac20SISO	Ant1	5180	12.68	≤30.00	PASS
		5220	12.47	≤30.00	PASS
		5240	12.53	≤30.00	PASS
		5260	12.77	≤23.98	PASS
		5300	12.78	≤23.98	PASS
		5320	12.67	≤23.98	PASS
		5500	12.67	≤23.98	PASS
		5580	12.72	≤23.98	PASS
		5700	12.08	≤23.98	PASS
		5745	12.47	≤30.00	PASS
		5785	12.11	≤30.00	PASS
		5825	11.84	≤30.00	PASS
11ac40SISO	Ant1	5190	12.24	≤30.00	PASS
		5230	12.07	≤30.00	PASS
		5270	12.03	≤23.98	PASS
		5310	11.92	≤23.98	PASS
		5510	11.83	≤23.98	PASS
		5550	12.03	≤23.98	PASS



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Report No.: SEWA2210000062RG04

Rev.: 01

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		5670	11.57	≤23.98	PASS
		5755	12.03	≤30.00	PASS
		5795	11.67	≤30.00	PASS
11ac80SISO	Ant1	5210	11.96	≤30.00	PASS
		5290	12.01	≤23.98	PASS
		5530	11.97	≤23.98	PASS
		5775	11.93	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11a	Ant1	5180	5.25	≤17.00	PASS
		5220	5.03	≤17.00	PASS
		5240	4.61	≤17.00	PASS
		5260	4.66	≤11.00	PASS
		5300	4.97	≤11.00	PASS
		5320	4.56	≤11.00	PASS
		5500	4.15	≤11.00	PASS
		5580	4.37	≤11.00	PASS
		5700	3.18	≤11.00	PASS
		5745	1.87	≤30.00	PASS
		5785	1.02	≤30.00	PASS
11n20SISO	Ant1	5180	2.11	≤17.00	PASS
		5220	2.78	≤17.00	PASS
		5240	2.61	≤17.00	PASS
		5260	2.04	≤11.00	PASS
		5300	2.70	≤11.00	PASS
		5320	2.51	≤11.00	PASS
		5500	2.59	≤11.00	PASS
		5580	3.10	≤11.00	PASS
		5700	3.34	≤11.00	PASS
		5745	0.29	≤30.00	PASS
		5785	-0.26	≤30.00	PASS
11n40SISO	Ant1	5190	0.20	≤17.00	PASS
		5230	-0.28	≤17.00	PASS
		5270	-0.61	≤11.00	PASS
		5310	-0.77	≤11.00	PASS
		5510	0.08	≤11.00	PASS
		5550	0.43	≤11.00	PASS
		5670	0.42	≤11.00	PASS
		5755	-2.82	≤30.00	PASS
11ac80SISO	Ant1	5210	-3.84	≤17.00	PASS
		5290	-4.22	≤11.00	PASS
		5530	-4.59	≤11.00	PASS
		5775	-7.44	≤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:

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



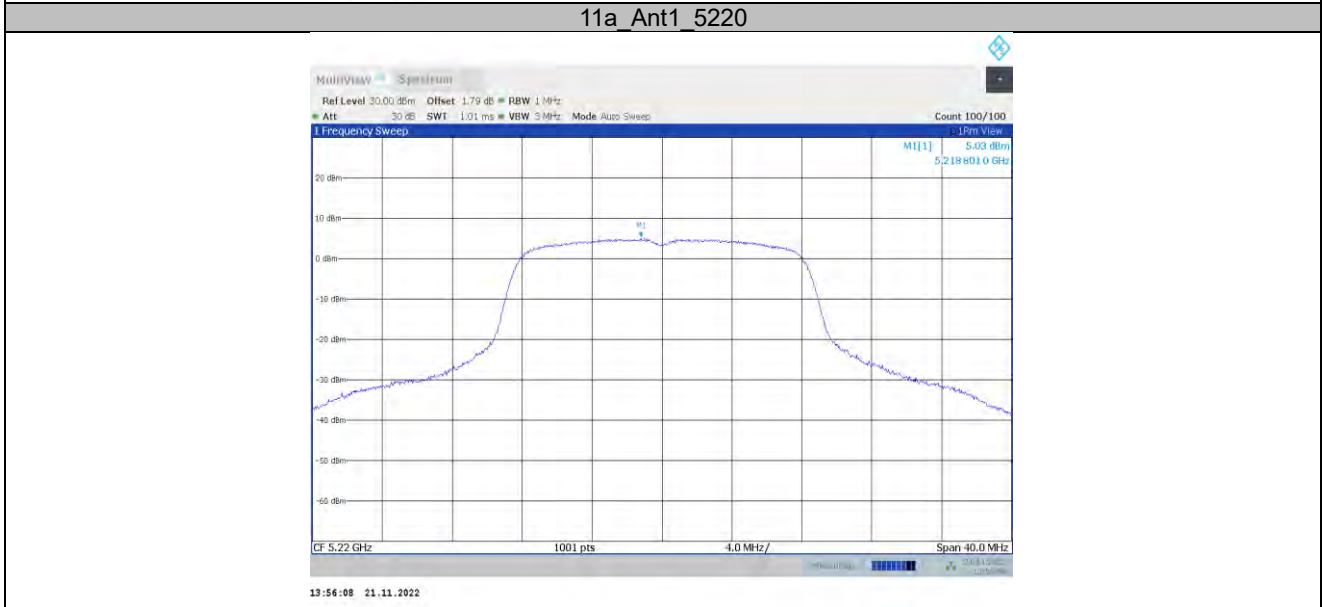
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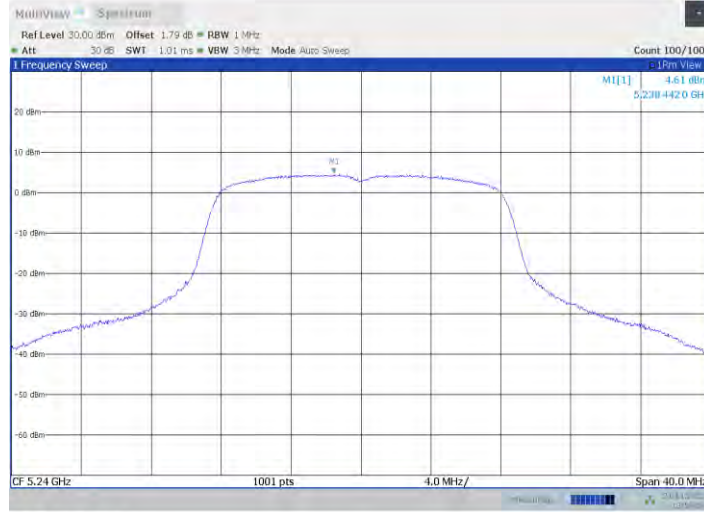
Test Graphs



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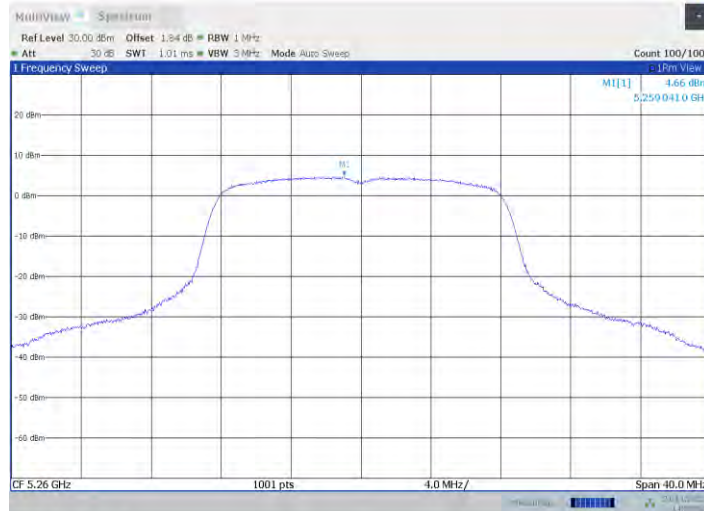
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11a Ant1 5240



13:59:00 21.11.2022

11a Ant1 5260



14:00:02 21.11.2022

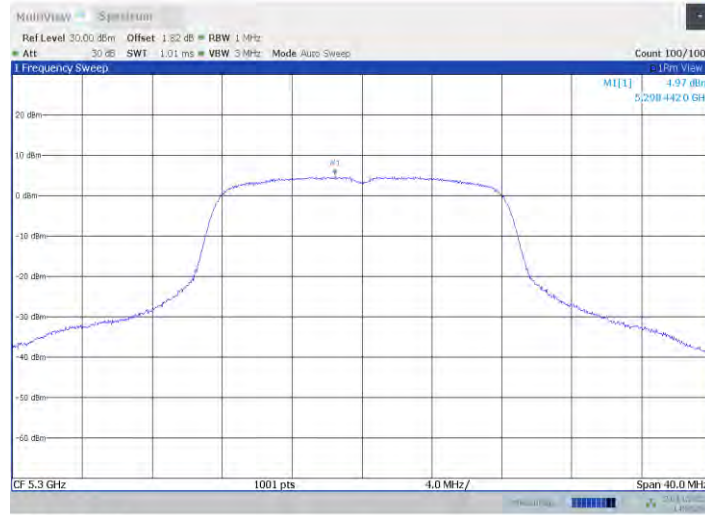


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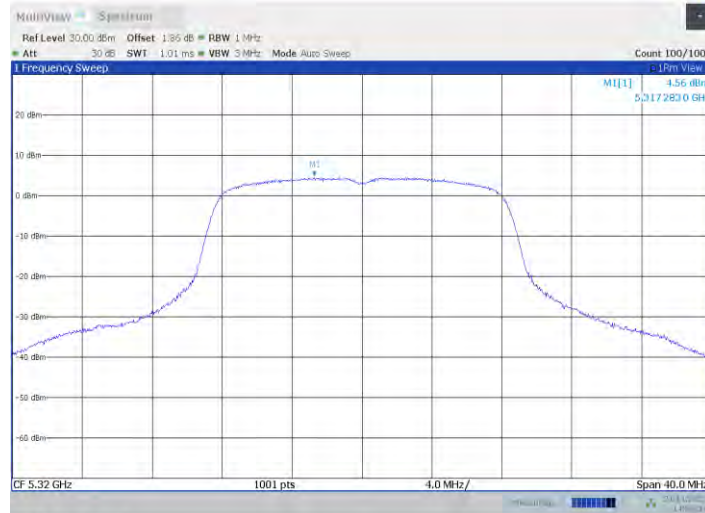
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11a Ant1 5300



14:01:03 21.11.2022

11a Ant1 5320



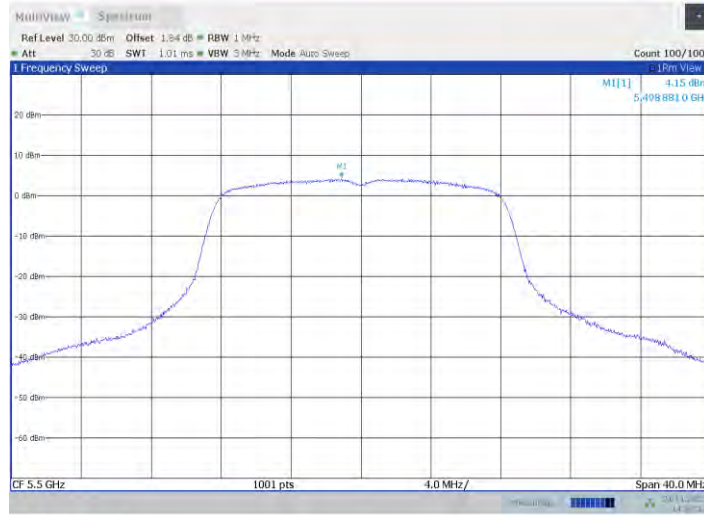
14:04:35 21.11.2022



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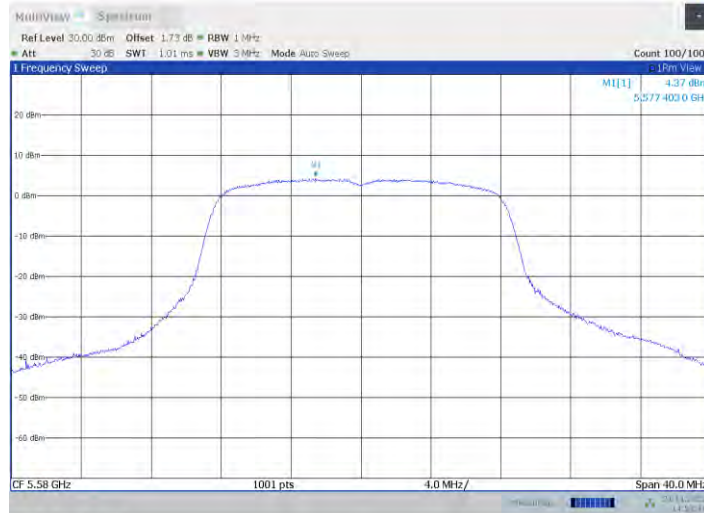
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11a_Ant1_5500



14:37:14 21.11.2022

11a_Ant1_5580



14:51:47 21.11.2022

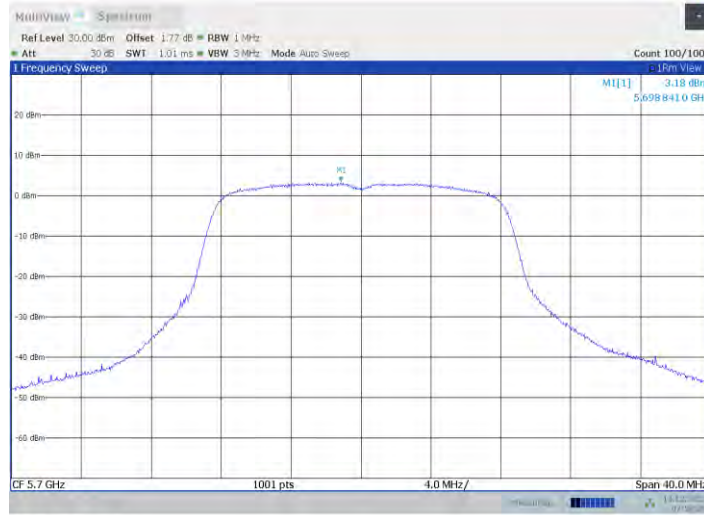


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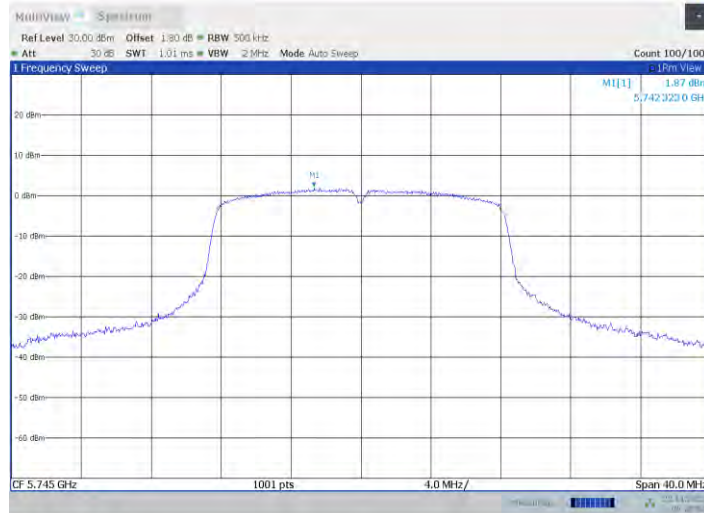
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11a_Ant1_5700



07:50:21 14.12.2022

11a_Ant1_5745



06:20:03 22.11.2022

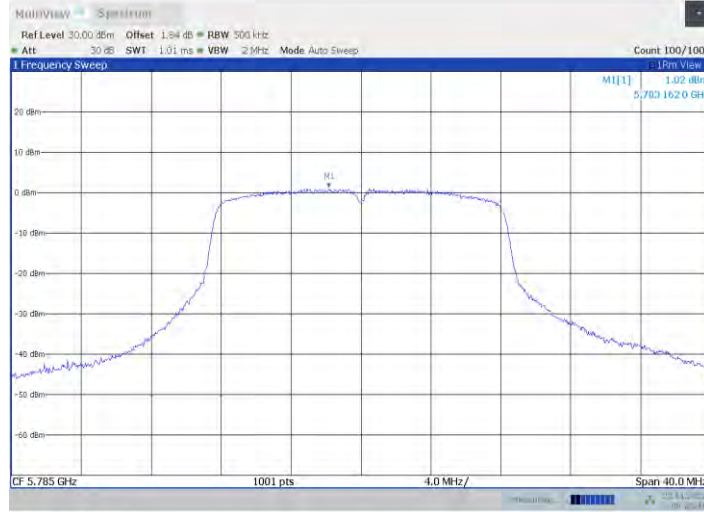


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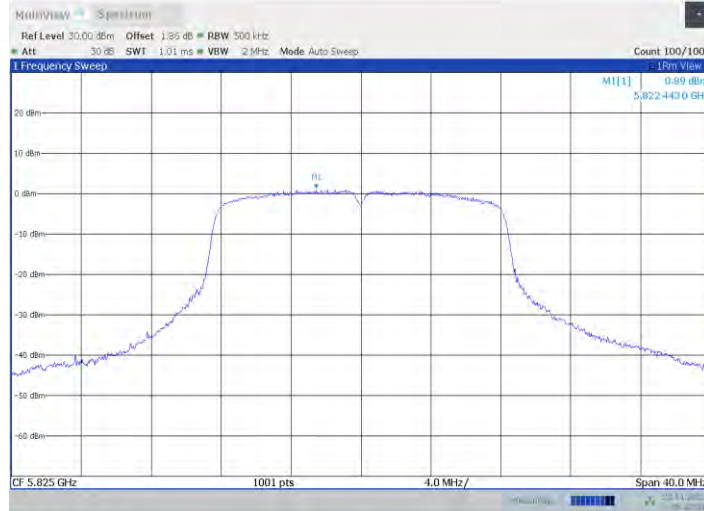
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11a_Ant1_5785



06:21:48 22.11.2022

11a_Ant1_5825



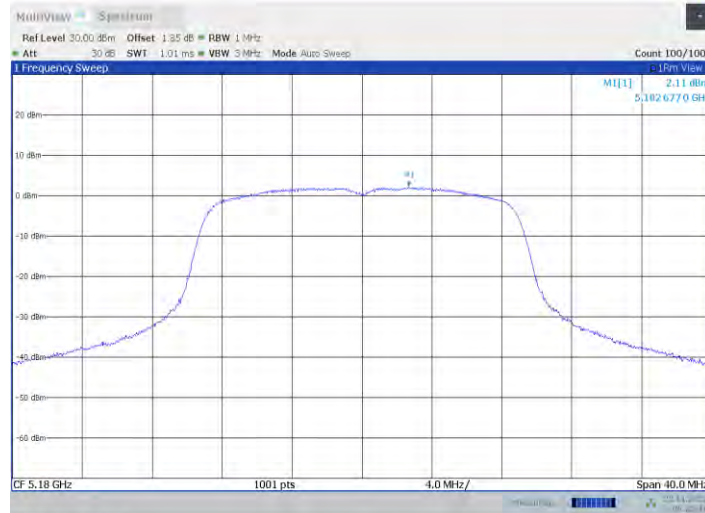
06:22:51 22.11.2022



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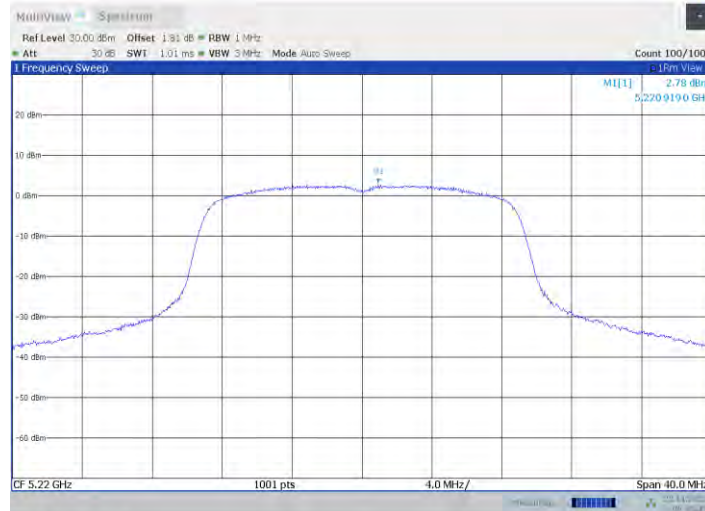
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11n20SISO Ant1 5180



06:25:42 22.11.2022

11n20SISO Ant1 5220



06:31:35 22.11.2022

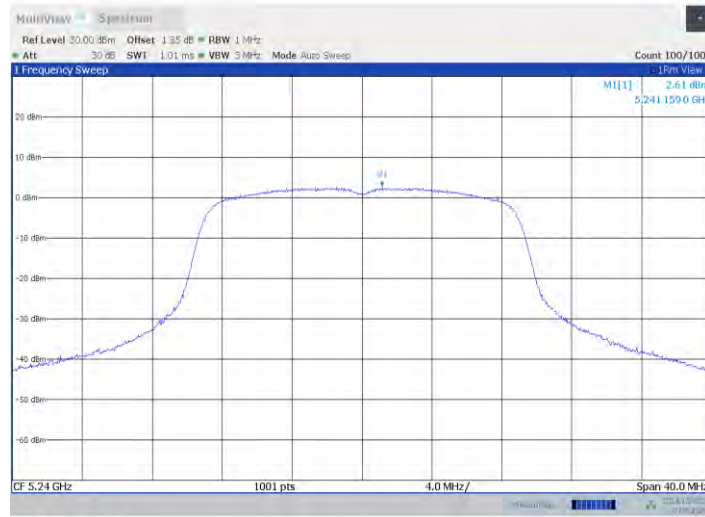


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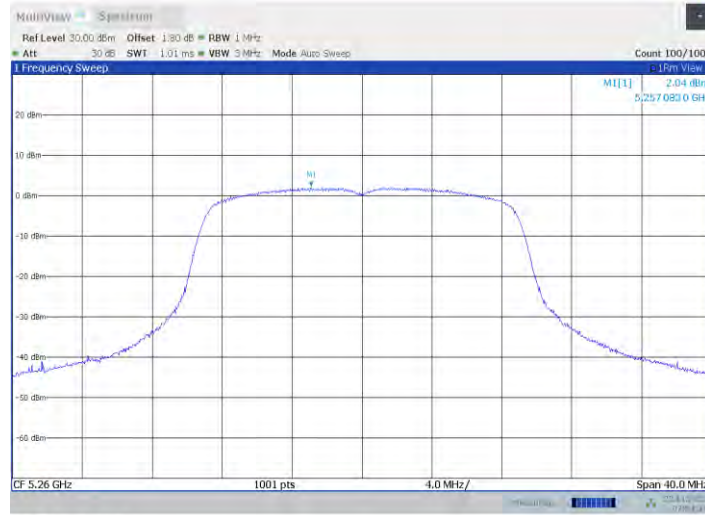
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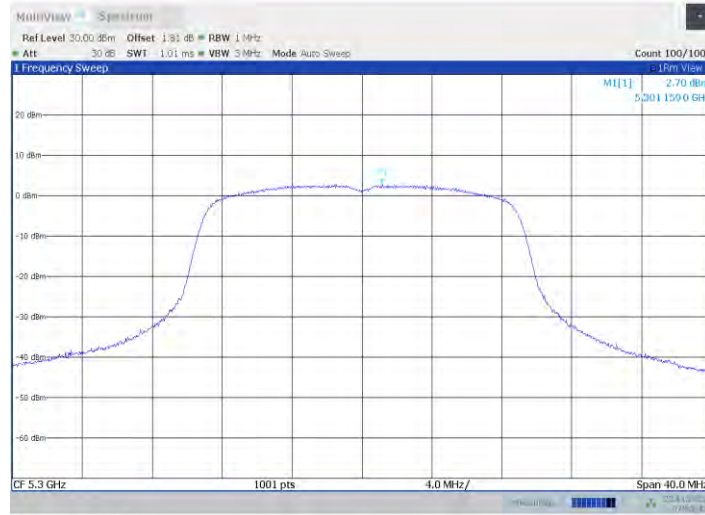


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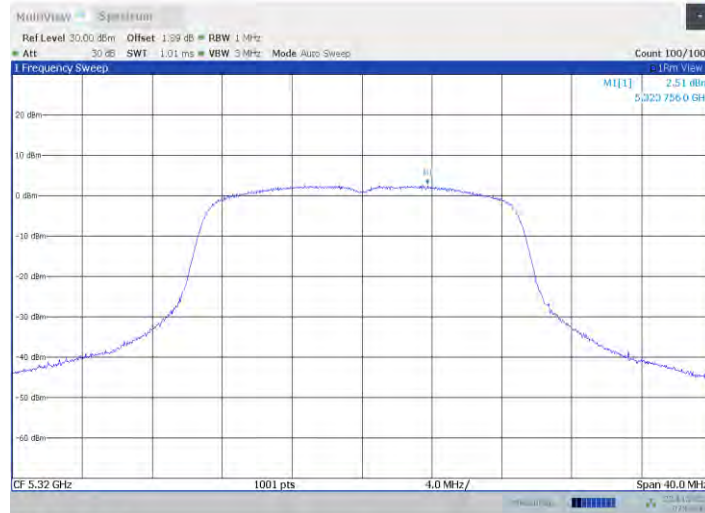
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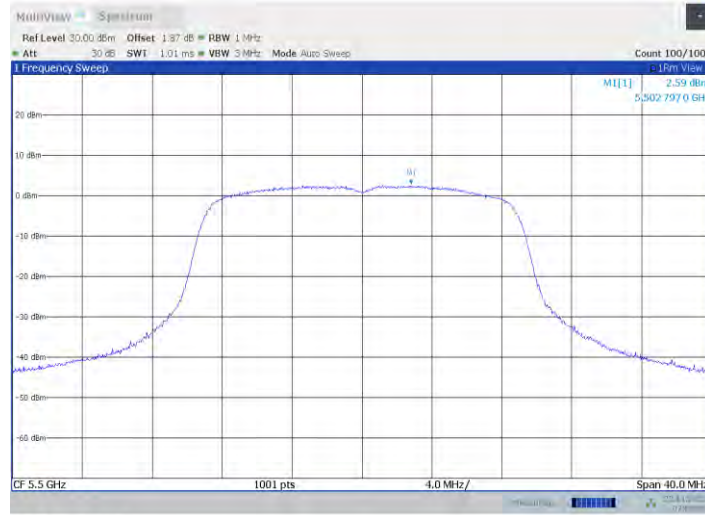


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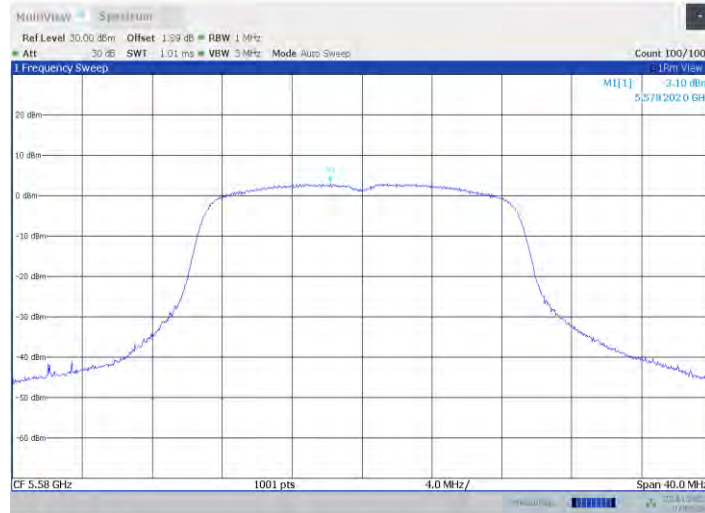
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11n20SISO Ant1 5500



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11n20SISO Ant1 5580



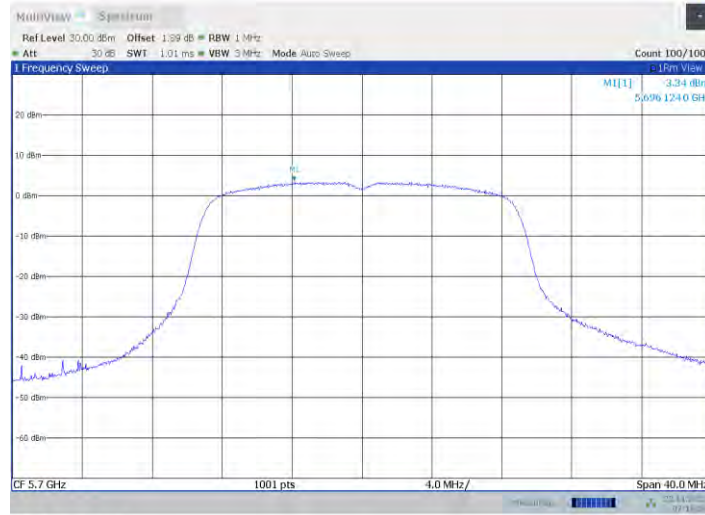
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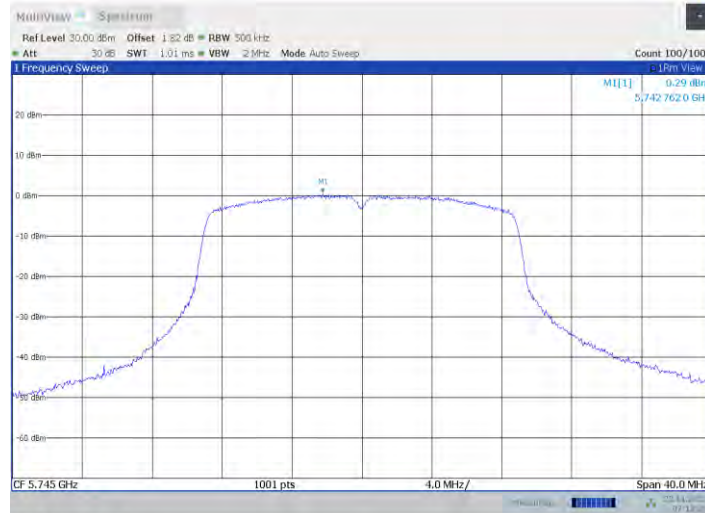
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11n20SISO Ant1 5745



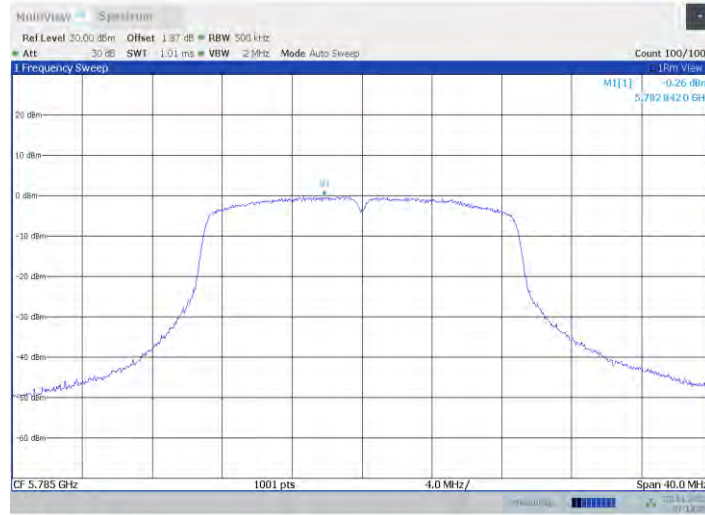
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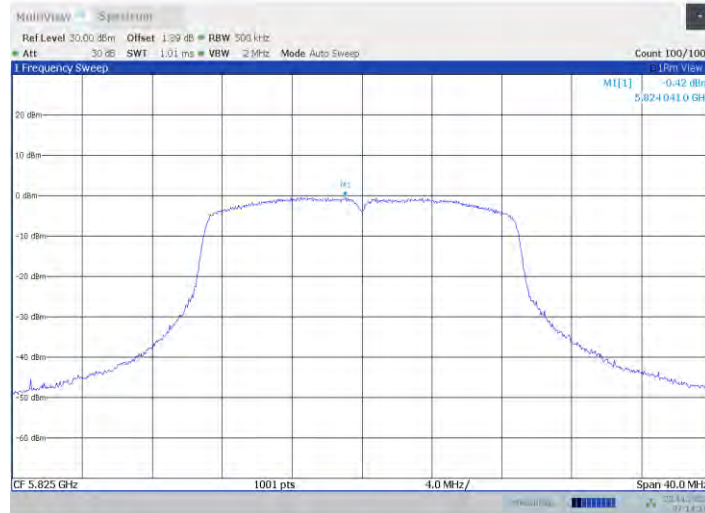
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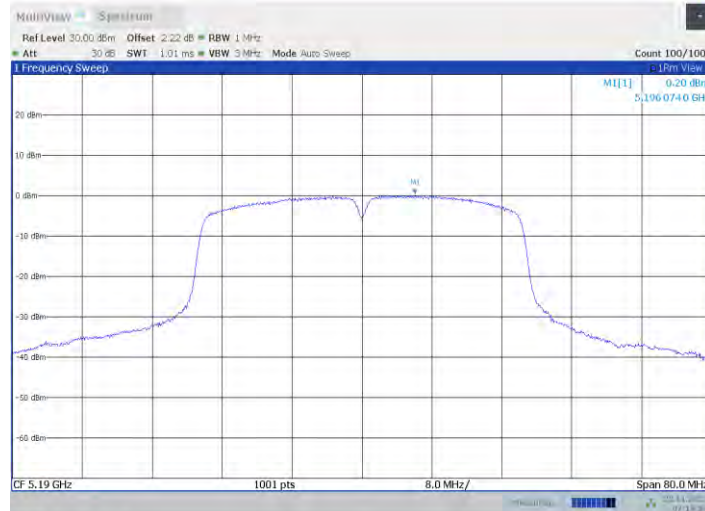


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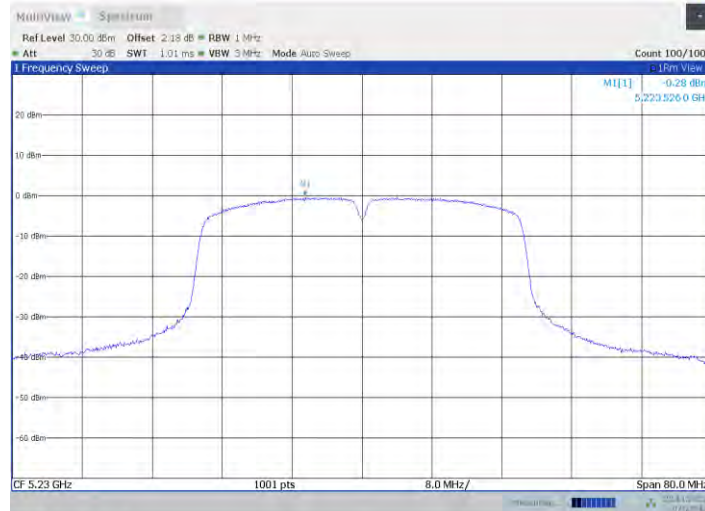
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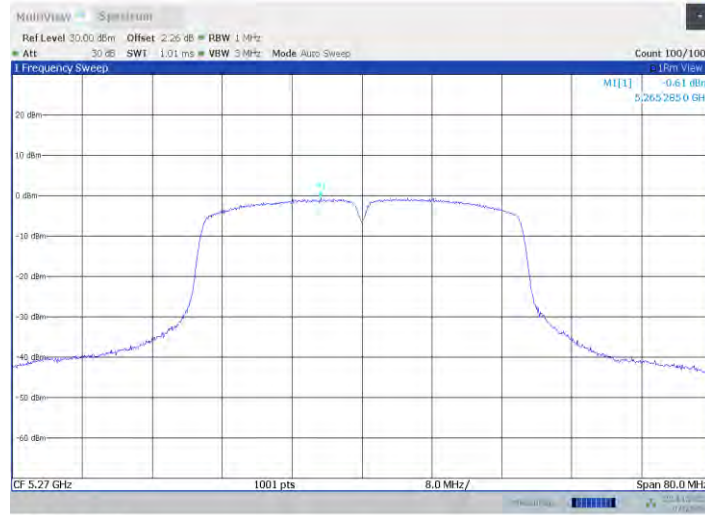
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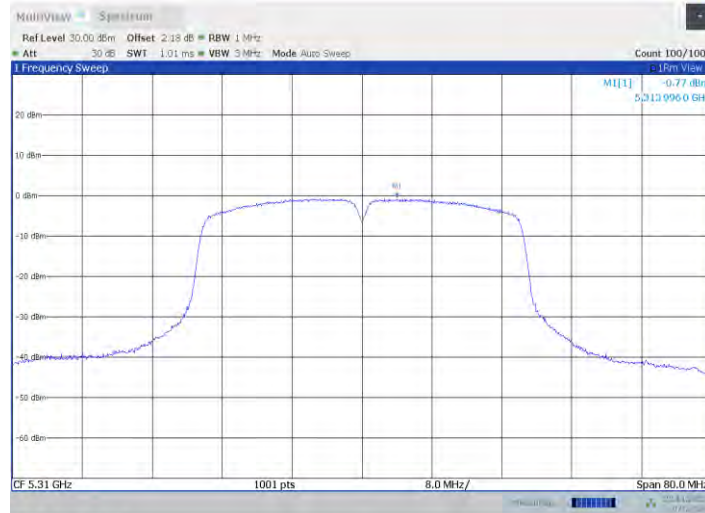
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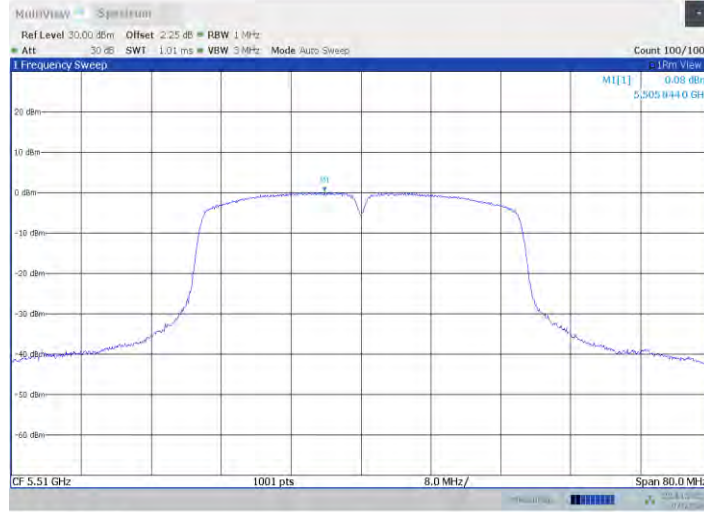
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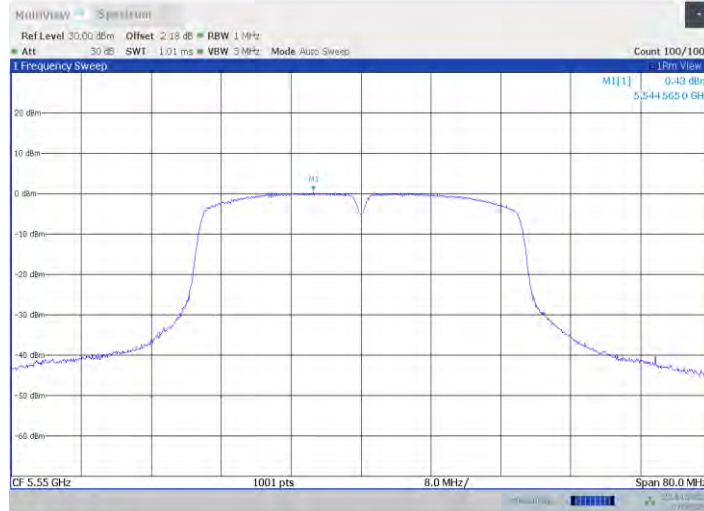
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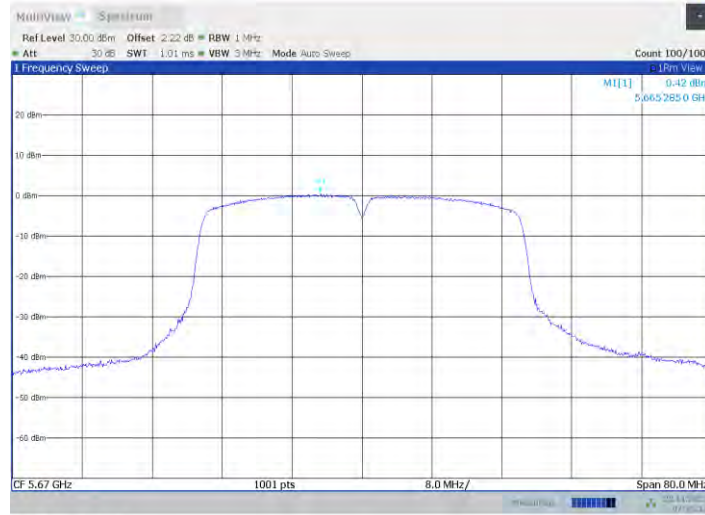


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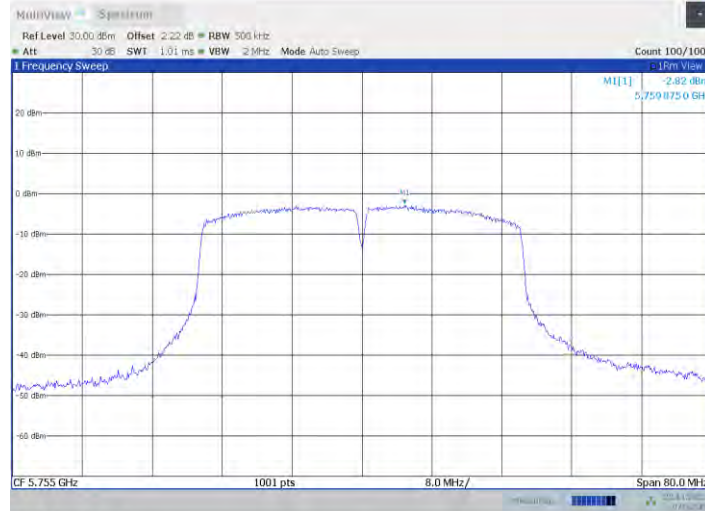
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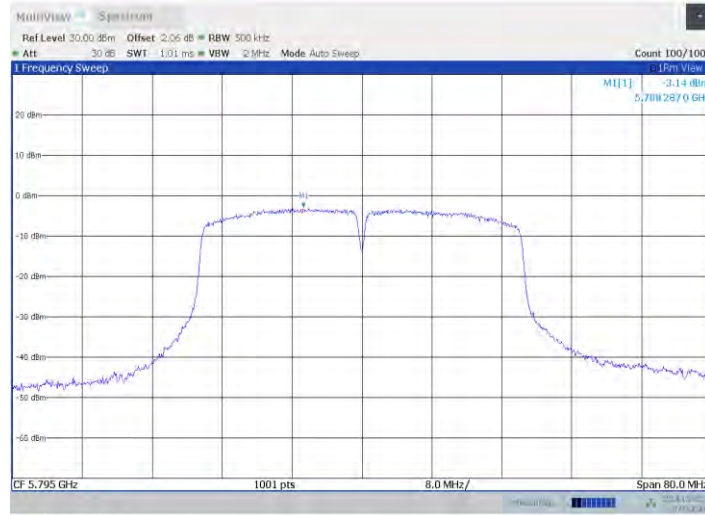


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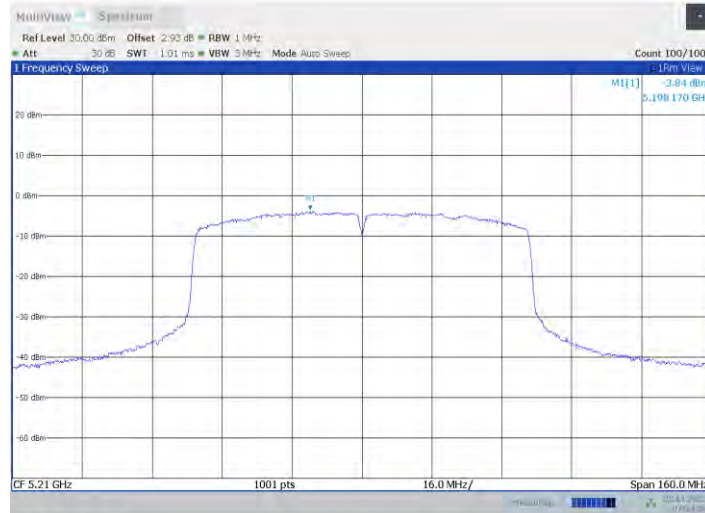
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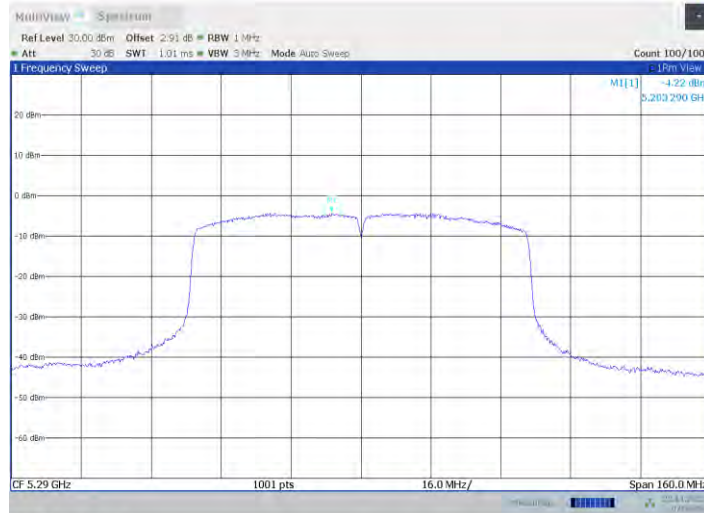


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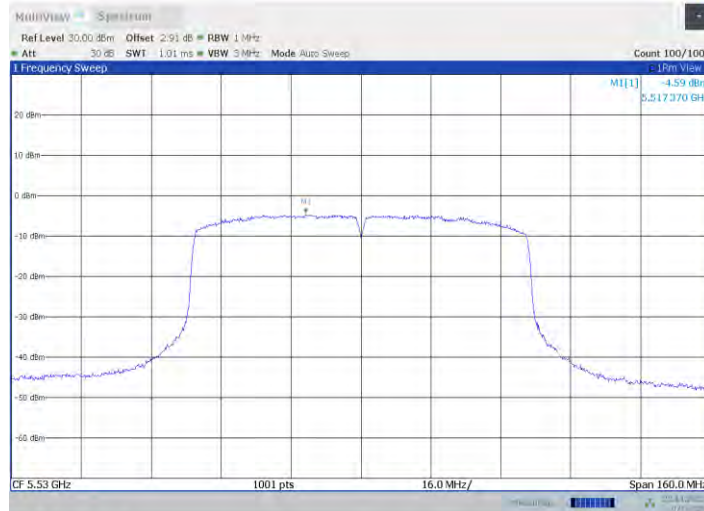
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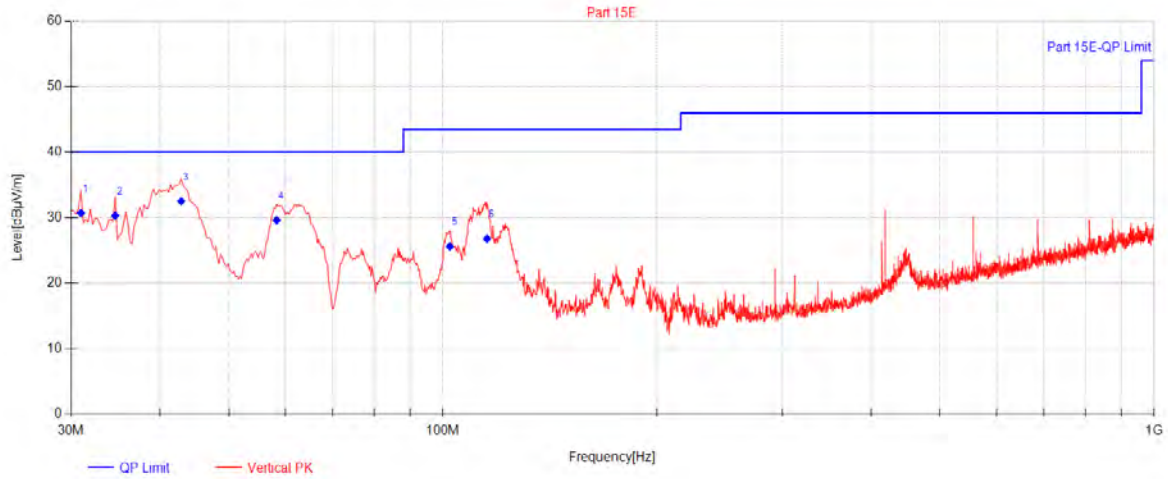
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 102



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.97	54.13	-36.66	13.25	30.72	40.00	9.28	254	257	Vertical
2	34.6075	53.46	-36.50	13.38	30.33	40.00	9.67	126	1	Vertical
3	42.8525	54.92	-36.23	13.83	32.52	40.00	7.48	135	206	Vertical
4	58.3725	53.12	-36.36	12.88	29.64	40.00	10.36	188	329	Vertical
5	102.265	51.12	-35.85	10.37	25.64	43.50	17.86	145	165	Vertical
6	115.36	51.23	-36.15	11.72	26.80	43.50	16.70	192	115	Vertical

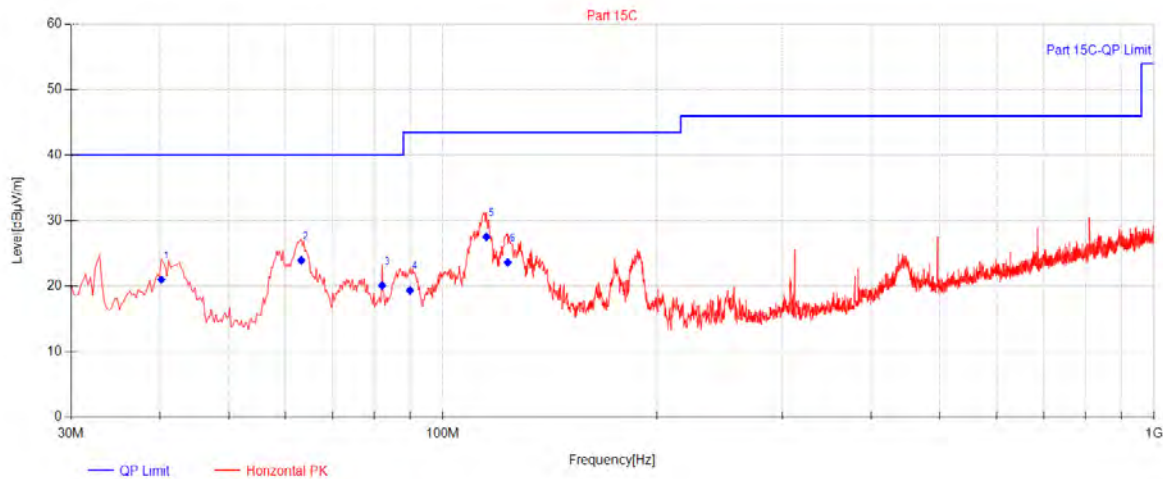


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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.185	43.21	-36.27	14.05	21.00	40.00	19.00	245	166	Horizontal
2	63.2225	48.23	-36.44	12.13	23.92	40.00	16.08	165	289	Horizontal
3	82.1375	46.56	-35.80	9.32	20.08	40.00	19.92	29	53	Horizontal
4	89.8975	46.33	-36.42	9.44	19.35	43.50	24.15	148	124	Horizontal
5	115.1175	51.97	-36.15	11.70	27.52	43.50	15.98	175	124	Horizontal
6	123.3625	47.16	-35.98	12.42	23.61	43.50	19.89	132	82	Horizontal

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Value = Reading(dBµV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Value(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.

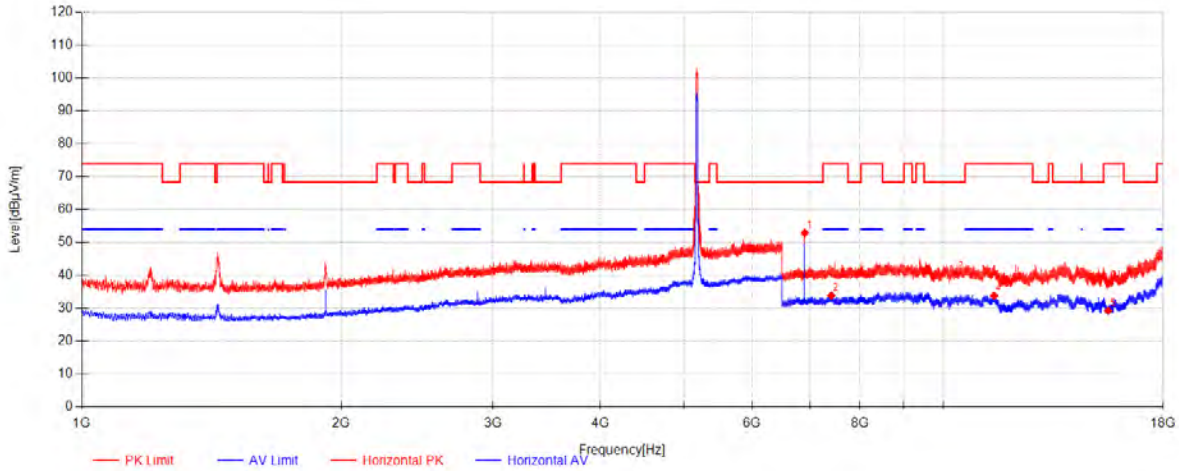


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Transmitter emission Above 1GHz

802.11a_Channel 36



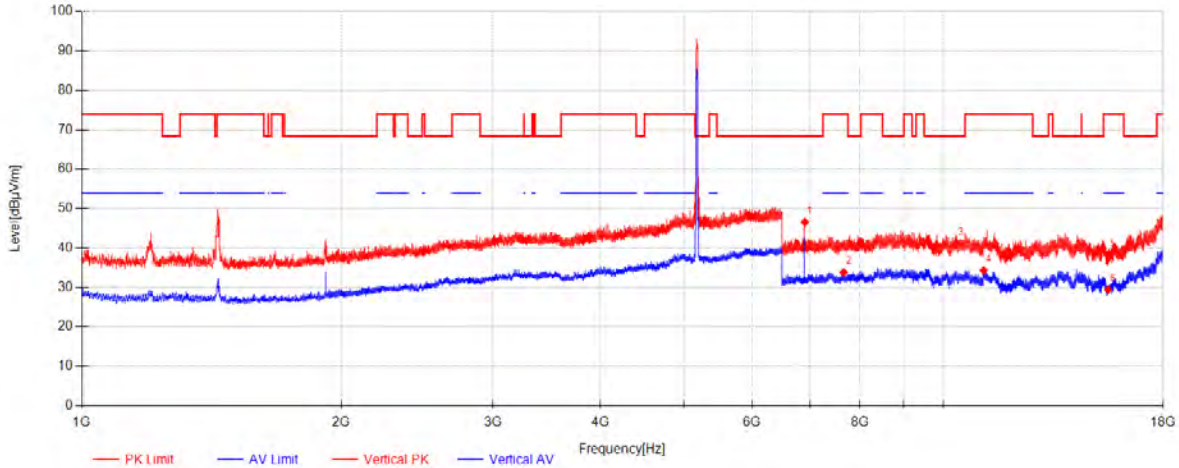
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.8125	60.77	35.97	-43.84	52.90	68.30	15.40	125	146	Horizontal
2	7413.7708	40.20	36.48	-42.84	33.84	54.00	20.16	148	270	Horizontal
3	10360.0000	40.34	38.85	-38.82	40.37	68.30	27.93	186	123	Horizontal
4	11456.9792	31.67	39.05	-36.94	33.78	54.00	20.22	153	360	Horizontal
5	15540.0000	25.49	38.52	-34.81	29.20	54.00	24.80	126	24	Horizontal
6	15540.0000	33.96	38.52	-34.81	37.67	74.00	36.33	192	355	Horizontal



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802.11a_Channel 36



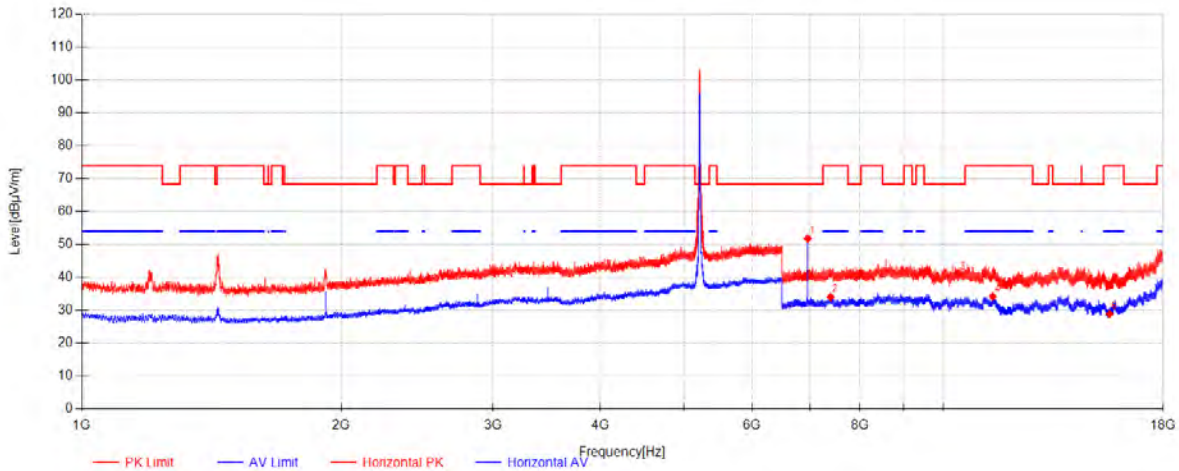
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6906.8125	54.45	35.97	-43.84	46.58	68.30	21.72	125	124	Vertical
2	7664.375	40.21	36.52	-42.88	33.85	54.00	20.15	148	4	Vertical
3	10360.0000	41.12	38.85	-38.82	41.15	68.30	27.15	159	198	Vertical
4	11140.25	32.51	39.10	-37.29	34.32	54.00	19.68	135	322	Vertical
5	15540.0000	34.59	38.52	-34.81	38.30	74.00	35.70	126	172	Vertical
6	15540.0000	25.74	38.52	-34.81	29.45	54.00	24.55	179	222	Vertical



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802.11a_Channel 44



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6960	59.19	36.03	-43.35	51.87	68.30	16.43	288	147	Horizontal
2	7398.9167	40.30	36.49	-42.80	33.99	54.00	20.01	149	24	Horizontal
3	10400.0000	40.82	38.86	-38.72	40.96	68.30	27.34	175	293	Horizontal
4	11411.9375	32.42	39.10	-37.39	34.13	54.00	19.87	142	269	Horizontal
5	15600.0000	33.39	38.44	-34.37	37.46	74.00	36.54	168	122	Horizontal
6	15600.0000	24.75	38.44	-34.37	28.82	54.00	25.18	133	195	Horizontal

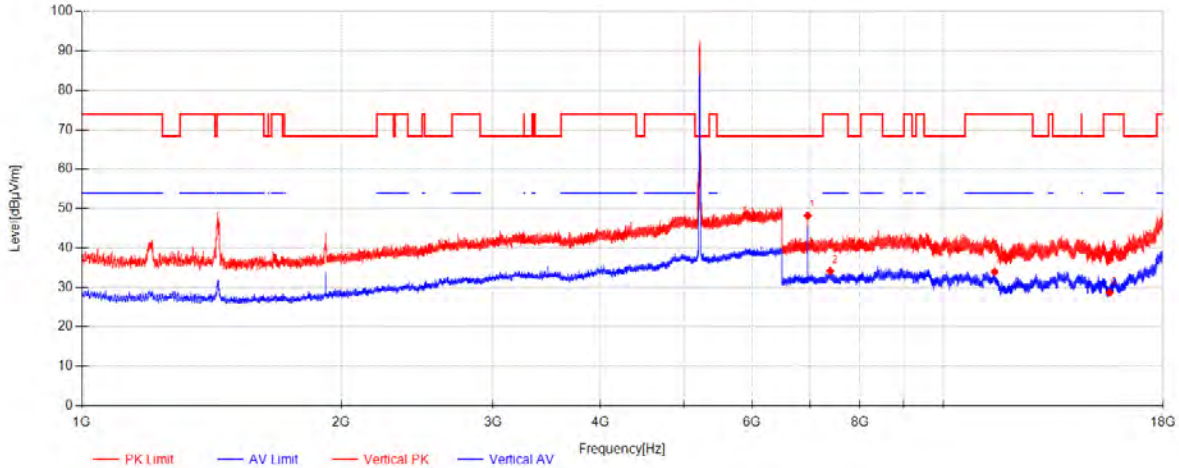


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802.11a_Channel 44



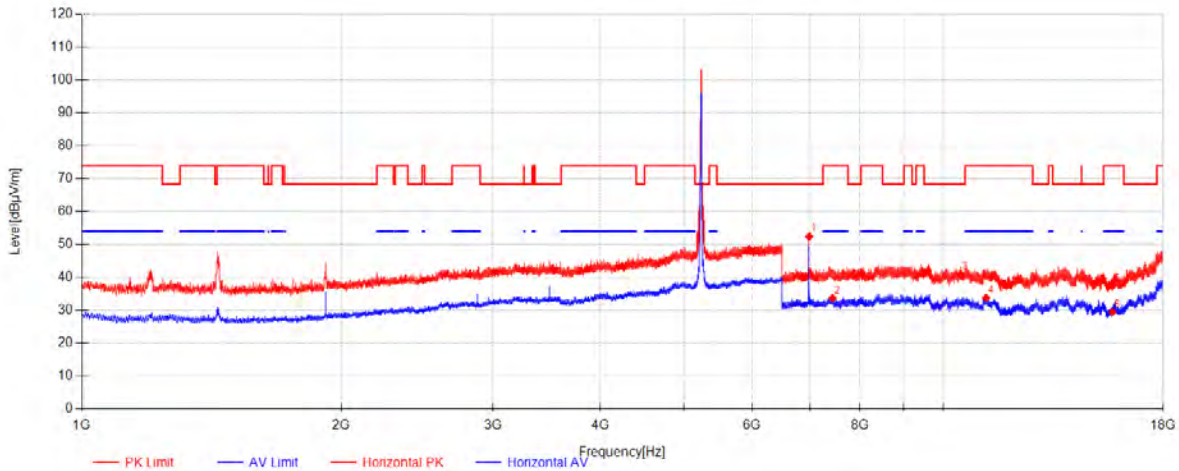
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6960	55.51	36.03	-43.35	48.19	68.30	20.11	247	294	Vertical
2	7390.7708	40.51	36.50	-42.84	34.17	54.00	19.83	186	4	Vertical
3	10400.0000	39.46	38.86	-38.72	39.60	68.30	28.70	145	147	Vertical
4	11471.3542	31.78	39.03	-36.80	34.02	54.00	19.98	129	343	Vertical
5	15600.0000	33.68	38.44	-34.37	37.75	74.00	36.25	183	24	Vertical
6	15600.0000	24.61	38.44	-34.37	28.68	54.00	25.32	211	360	Vertical



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802.11a_Channel 48



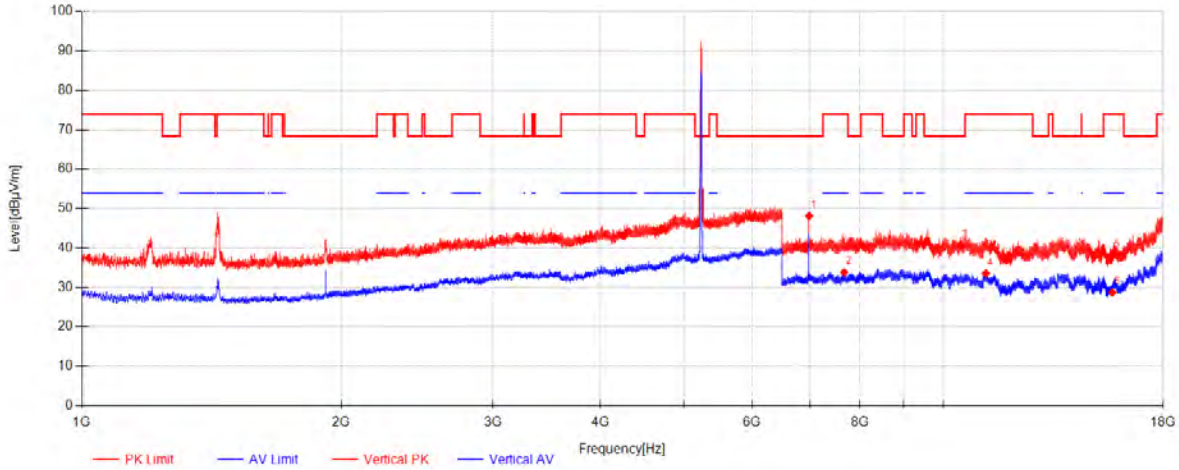
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.8333	59.52	36.06	-43.11	52.47	68.30	15.83	248	24	Horizontal
2	7437.7292	40.11	36.47	-42.93	33.65	54.00	20.35	159	4	Horizontal
3	10480.0000	40.68	38.94	-38.75	40.87	68.30	27.43	176	4	Horizontal
4	11213.0833	31.30	39.11	-36.68	33.73	54.00	20.27	218	343	Horizontal
5	15720.0000	32.21	38.30	-33.22	37.29	74.00	36.71	130	4	Horizontal
6	15720.0000	24.36	38.30	-33.22	29.44	54.00	24.56	175	320	Horizontal



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802.11a_Channel 48



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6986.3542	55.16	36.06	-43.11	48.11	68.30	20.19	245	293	Vertical
2	7673.4792	40.23	36.53	-42.89	33.87	54.00	20.13	122	171	Vertical
3	10480.0000	40.45	38.94	-38.75	40.64	68.30	27.66	156	245	Vertical
4	11206.375	31.09	39.11	-36.64	33.56	54.00	20.44	129	122	Vertical
5	15720.0000	33.05	38.30	-33.22	38.13	74.00	35.87	175	269	Vertical
6	15720.0000	23.65	38.30	-33.22	28.73	54.00	25.27	130	245	Vertical



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