



# TEST REPORT

**Application No.:** HR/2021/B0010  
**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.:** AF51Y  
**Trade Mark:** QUECTEL  
**FCC ID:** XMR202201AF51Y  
**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR FCC Part 15, Subpart E  
**Date of Receipt:** 2022/2/12  
**Date of Test:** 2022/2/22 to 2022/4/1  
**Date of Issue:** 2022/4/2

<b>Test Result :</b>	<b>PASS *</b>
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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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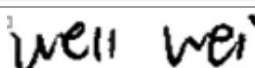
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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/4/1		Original
02		2022/4/2		Add A2LA+ILAC logo

Prepared By		
		(Weller Liu) / Test Supervisor
Checked By		
		(Well Wei) / Reviewer

Remark: This report supersedes our previous report SUHR/2021/B001004, issued on 2021-04-01, which is hereby deemed null and void.



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	PASS
	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	PASS
	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	PASS
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW,11dBm+10*Ig(EBW)}		
	Band II-C		< 1W		
	Band III	15.407(a)(3)			
Maximum Power Spectral Density	Band I	15.407(a)	<11dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C		<30dBm/500KHz		
	Band III	15.407(a)(3)			
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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			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; 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; 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 d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: \$15.209/\$7.2.5 limit (AV&PK).		
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
Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz					



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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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

#### 3.3 Test Facility

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

• **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.:	AF51Y
Trade Mark:	QUECTEL
Hardware Version:	R1.0
Software Version:	AG525RGLAAR01A16M4G_OCPU_01.011 (Remark: the SW of branch is Post-CS[13]0.0.125.1)
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ac (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (80 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5250MHz to 5350MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5470MHz to 5725MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
Sample Type:	<input type="checkbox"/> Portable Device, <input checked="" type="checkbox"/> Module
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Smart System:	<input checked="" type="checkbox"/> SISO (for 802.11a/n/ac), <input checked="" type="checkbox"/> MIMO (for 802.11n/ac), 2TX 2RX <input type="checkbox"/> Diversity (for 802.11a).
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client 5150MHz to 5250MHz: -2.96dBi(Ant1); -2.04dBi(Ant2); 5250MHz to 5350MHz: -1.24dBi(Ant1); -0.32dBi(Ant2); 5470MHz to 5725MHz: -1.46dBi(Ant1); -0.54dBi(Ant2); 5725MHz to 5850MHz: -1.71dBi(Ant1); -0.79dBi(Ant2);
RF Cable*:	<input checked="" type="checkbox"/> Provided by client 1dB
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark: 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.	



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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(℃)	Voltage(V)
NTNV	22~23	3.8
LTVN	-40	3.8
HTNV	85	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

### 3.6 Description of Support Units

Manufacturer	Description	Model
Quectel	Mother board	V2X&5G-EVB
Qualcomm	Test Software	QRCT4 tool
Dong Guan City GangQi Electronic Co.,Ltd	Adapter	QG36-120300-AX
JONKEY	USB cable	XY02-354-SAM-TYPE-C
Amphenol	Antenna	M3 MIMO Antenna

Remark:all above the information of table are provided by client.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15 Section 15.203
The antenna is External antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: -2.96dBi(Ant1); -2.04dBi(Ant2); 5250MHz to 5350MHz: -1.24dBi(Ant1); -0.32dBi(Ant2); 5470MHz to 5725MHz: -1.46dBi(Ant1); -0.54dBi(Ant2); 5725MHz to 5850MHz: -1.71dBi(Ant1); -0.79dBi(Ant2);	

**Note:**

Frequency	Gain1	Gain2	Directional Gain
5150-5250	-2.96	-2.04	-2.48
5250-5350	-1.24	-0.32	-0.76
5470-5725	-1.46	-0.54	-0.98
5725-5850	-1.71	-0.79	-1.23

Remark: Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by  $G_1, G_2, \dots, G_N$  dBi

(i) If transmit signals are *correlated*, then

Directional gain =  $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})^2 / N_{ANT}]$  dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain =  $10 \log[10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}] / N_{ANT}$  dBi



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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		
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"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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,</li> <li>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.</li> <li>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.</li> </ol>		



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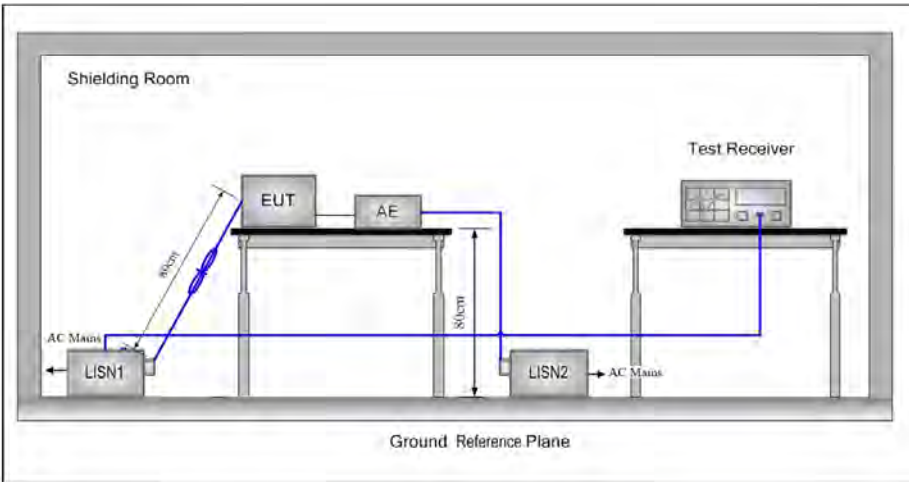
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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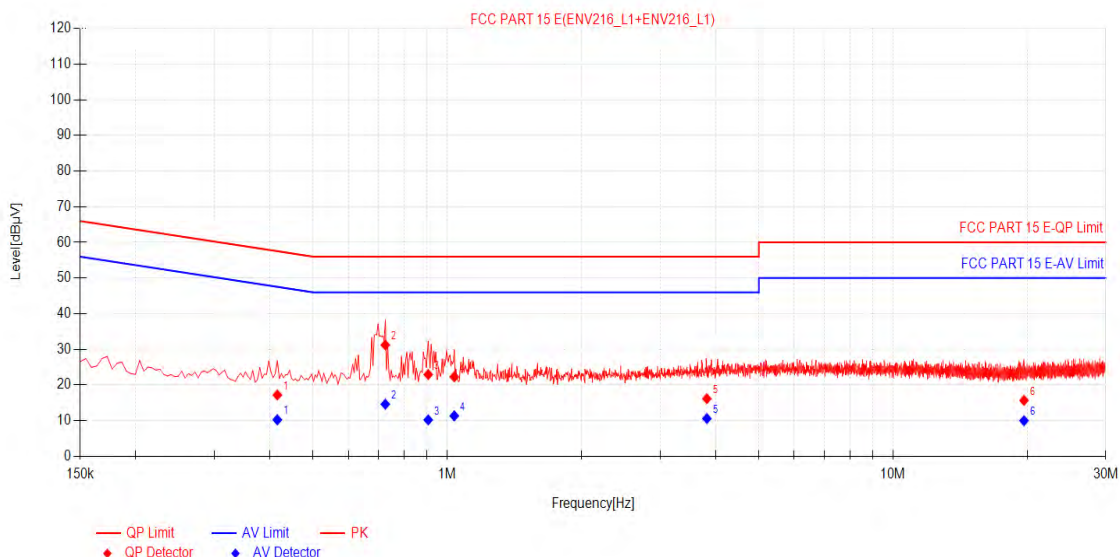
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### Measurement Data

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.

### Live Line:



### Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.4155	10.51	17.20	57.54	40.34	10.25	47.54	37.29	PASS
2	0.7260	10.56	31.21	56.00	24.79	14.62	46.00	31.38	PASS
3	0.9060	10.59	22.95	56.00	33.05	10.22	46.00	35.78	PASS
4	1.0365	10.54	22.31	56.00	33.69	11.34	46.00	34.66	PASS
5	3.8220	10.73	16.17	56.00	39.83	10.60	46.00	35.40	PASS
6	19.6710	10.43	15.71	60.00	44.29	9.99	50.00	40.01	PASS

### Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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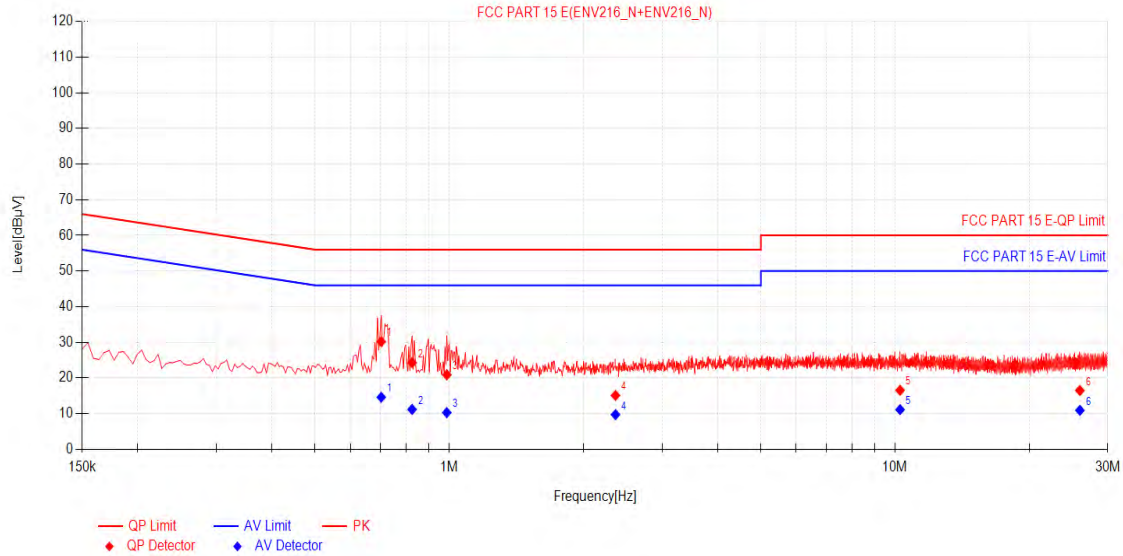
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Neutral Line:



### Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.7035	10.81	30.18	56.00	25.82	14.60	46.00	31.40	PASS
2	0.8250	10.80	24.31	56.00	31.69	11.19	46.00	34.81	PASS
3	0.9870	10.65	20.90	56.00	35.10	10.29	46.00	35.71	PASS
4	2.3595	10.77	15.11	56.00	40.89	9.73	46.00	36.27	PASS
5	10.2660	10.67	16.55	60.00	43.45	11.13	50.00	38.87	PASS
6	25.9890	10.51	16.51	60.00	43.49	10.93	50.00	39.07	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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## 4.3 Duty Cycle

The detailed test data see: **Appendix**



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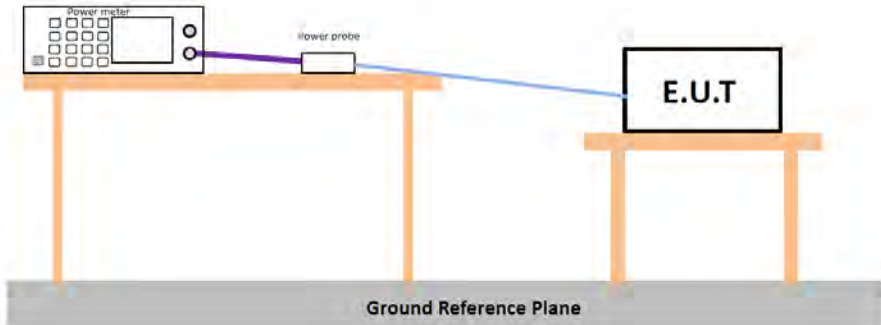
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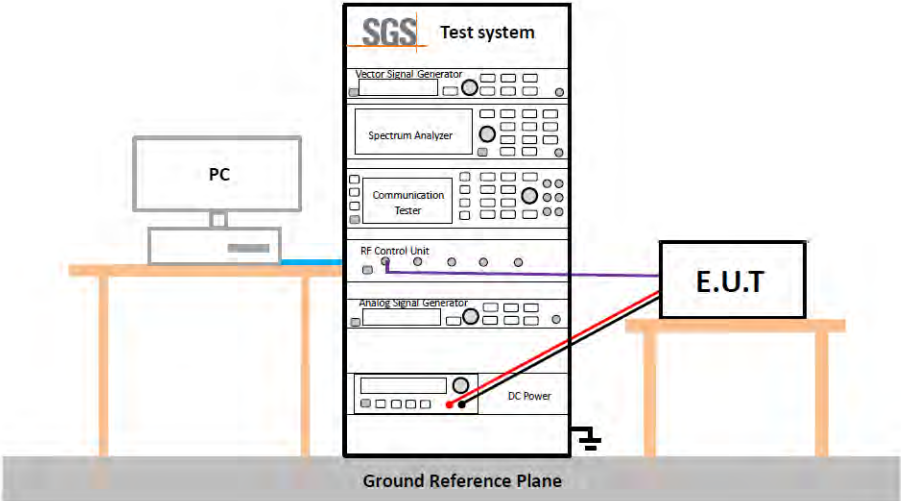
#### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
Test Setup:	<div></div> <p>* Test with power meter (Detector function: Peak)</p>	
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	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: <b>Appendix</b>		



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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
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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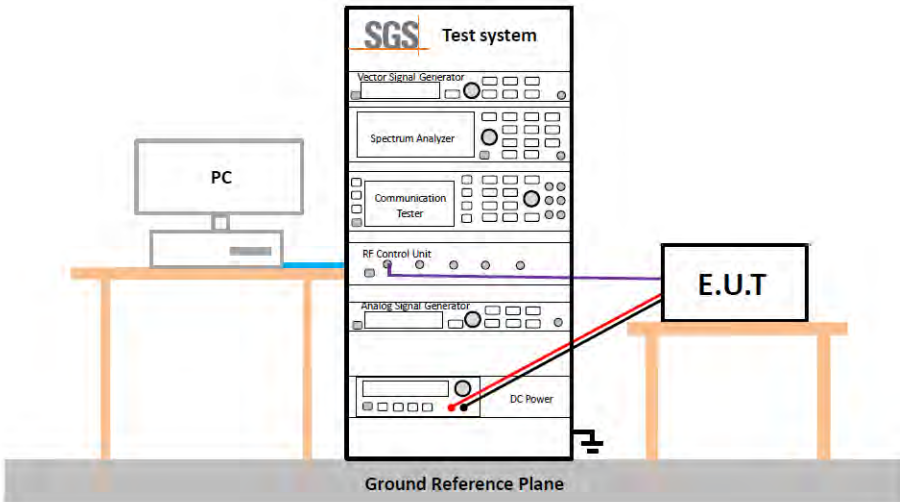
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### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		



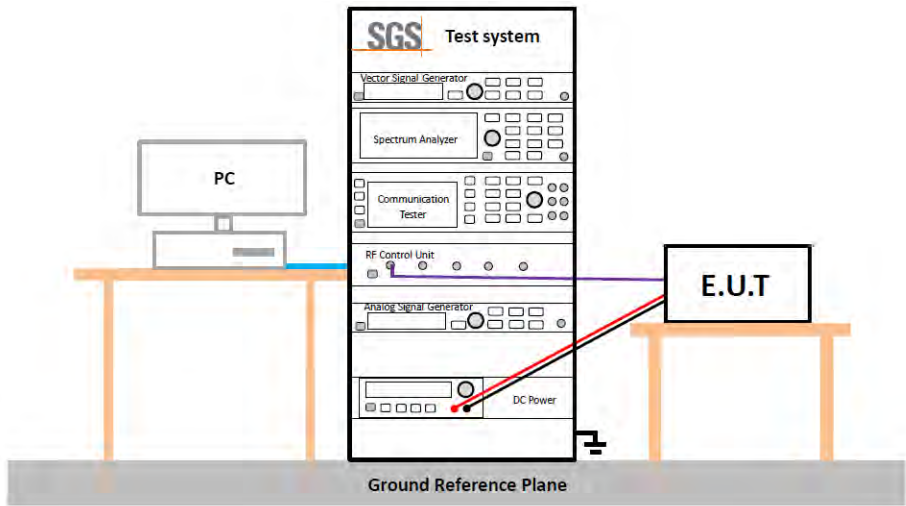
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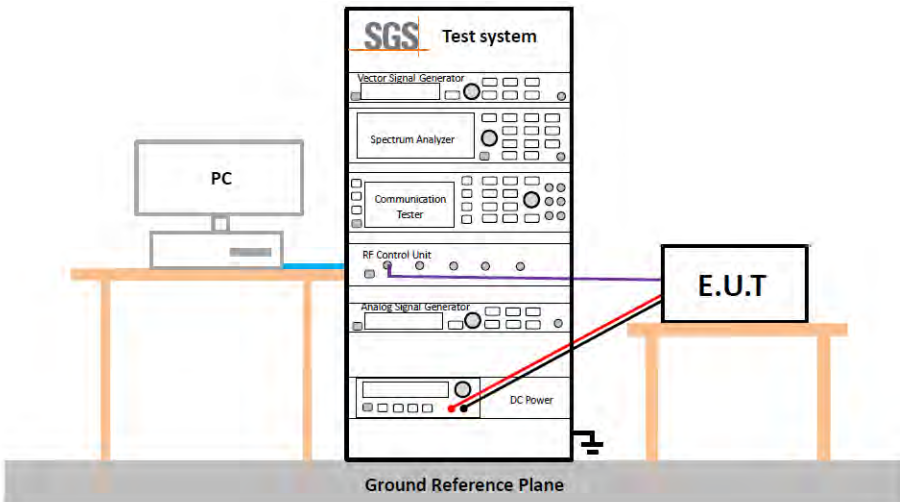
## 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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## 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 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:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
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: <b>Appendix</b>		



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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
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

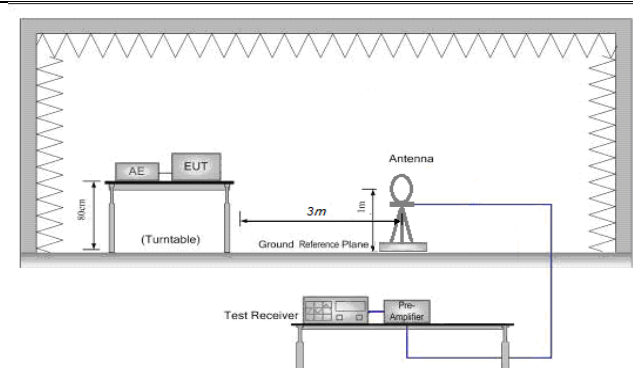


Figure 1. 9kHz to 30MHz

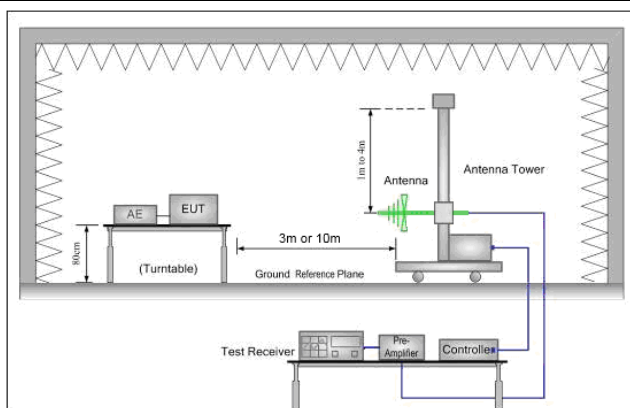


Figure 1. 30MHz to 1GHz

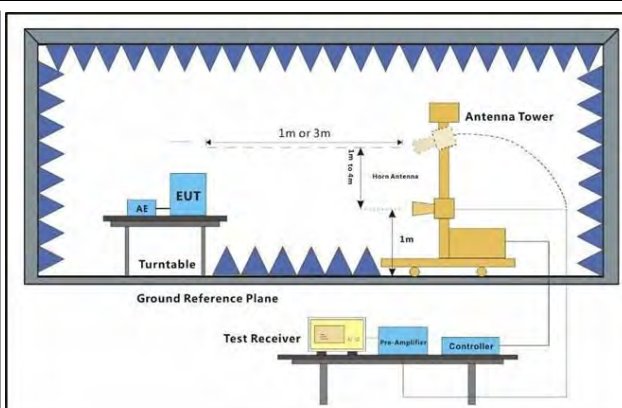


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>For below 1GHz test(9KHz start), 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.</li> <li>For above 1GHz test(10th harmonic), 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.</li> <li>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.</li> <li>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.</li> <li>For each suspected emission, the EUT was arranged to its worst case and</li> </ol>
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	<p>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. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest</p>



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	channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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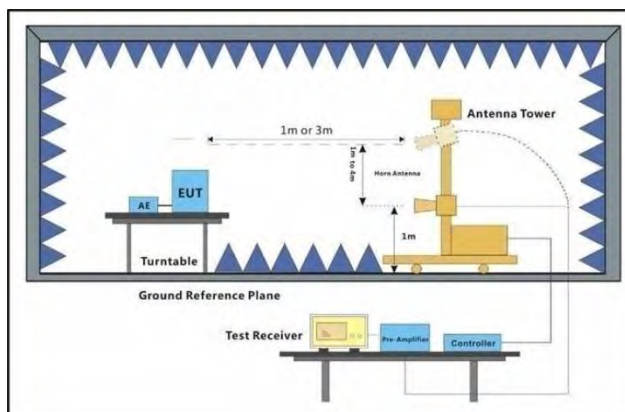
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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
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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	<p>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. Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20) ;</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT20).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT40).</p> <p>MCS0 of rate is the worst case of 802.11ac(VHT80).</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 7.25 \times 10^{-8} \text{ GHz}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 7.25 \times 10^{-8} \text{ GHz}$
7	Conduction Emission	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)



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## 6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/19	2023/2/18
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/16	2023/2/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/16	2023/2/15
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15



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RSE Test Equipment 996-01					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 3.0.0.2	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	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]
11a-CDD	Ant1	5180	21.60	5169.44	5191.04
	Ant2	5180	21.36	5169.72	5191.08
	Ant1	5220	21.68	5209.16	5230.84
	Ant2	5220	21.24	5209.48	5230.72
	Ant1	5240	21.80	5229.12	5250.92
	Ant2	5240	21.76	5229.04	5250.80
	Ant1	5260	21.56	5249.32	5270.88
	Ant2	5260	22.04	5248.84	5270.88
	Ant1	5300	21.80	5289.16	5310.96
	Ant2	5300	21.92	5288.92	5310.84
	Ant1	5320	21.68	5309.20	5330.88
	Ant2	5320	22.40	5308.56	5330.96
	Ant1	5500	21.96	5488.92	5510.88
	Ant2	5500	22.04	5488.96	5511.00
	Ant1	5580	22.20	5568.84	5591.04
	Ant2	5580	22.20	5568.92	5591.12
	Ant1	5700	21.84	5689.00	5710.84
	Ant2	5700	22.04	5688.96	5711.00
	Ant1	5720	21.56	5709.16	5730.72
	Ant2	5720	22.12	5708.84	5730.96
	Ant1	5720_UNII-2C	15.84	5709.16	5725
	Ant2	5720_UNII-2C	16.16	5708.84	5725
	Ant1	5720_UNII-3	5.72	5725	5730.72
	Ant2	5720_UNII-3	5.96	5725	5730.96
	Ant1	5745	21.92	5733.88	5755.80
	Ant2	5745	21.48	5734.28	5755.76
	Ant1	5785	22.64	5773.36	5796.00
	Ant2	5785	22.20	5773.68	5795.88
	Ant1	5825	21.60	5814.24	5835.84
	Ant2	5825	22.24	5814.12	5836.36
11n20MIMO	Ant1	5180	22.20	5168.96	5191.16
	Ant2	5180	23.44	5169.28	5192.72
	Ant1	5220	21.68	5209.04	5230.72
	Ant2	5220	22.28	5208.92	5231.20
	Ant1	5240	22.36	5228.84	5251.20
	Ant2	5240	21.88	5228.96	5250.84
	Ant1	5260	21.84	5249.48	5271.32
	Ant2	5260	22.84	5249.16	5272.00
	Ant1	5300	22.92	5289.12	5312.04
	Ant2	5300	22.68	5289.16	5311.84
	Ant1	5320	22.24	5309.04	5331.28
	Ant2	5320	22.36	5308.76	5331.12
	Ant1	5500	22.04	5488.96	5511.00
	Ant2	5500	22.04	5488.80	5510.84
	Ant1	5580	22.64	5568.52	5591.16
	Ant2	5580	22.08	5568.92	5591.00
	Ant1	5700	21.92	5688.96	5710.88
	Ant2	5700	22.20	5688.92	5711.12
	Ant1	5720	22.00	5708.96	5730.96
	Ant2	5720	23.44	5708.40	5731.84
	Ant1	5720_UNII-2C	16.04	5708.96	5725



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	Ant2	5720 UNII-2C	16.6	5708.40	5725
	Ant1	5720 UNII-3	5.96	5725	5730.96
	Ant2	5720 UNII-3	6.84	5725	5731.84
	Ant1	5745	23.12	5733.28	5756.40
	Ant2	5745	22.16	5733.92	5756.08
	Ant1	5785	22.28	5773.68	5795.96
	Ant2	5785	22.56	5773.72	5796.28
	Ant1	5825	21.92	5813.92	5835.84
11n40MIMO	Ant2	5825	22.12	5813.96	5836.08
	Ant1	5190	41.20	5169.52	5210.72
	Ant2	5190	40.56	5169.36	5209.92
	Ant1	5230	41.04	5209.60	5250.64
	Ant2	5230	40.48	5209.68	5250.16
	Ant1	5270	41.36	5249.28	5290.64
	Ant2	5270	41.36	5249.28	5290.64
	Ant1	5310	40.32	5290.00	5330.32
	Ant2	5310	40.56	5289.68	5330.24
	Ant1	5510	40.96	5489.20	5530.16
	Ant2	5510	40.80	5489.60	5530.40
	Ant1	5550	41.52	5528.96	5570.48
	Ant2	5550	40.80	5529.68	5570.48
	Ant1	5670	41.20	5649.20	5690.40
	Ant2	5670	41.20	5649.04	5690.24
	Ant1	5710	40.56	5689.68	5730.24
	Ant2	5710	40.40	5689.84	5730.24
	Ant1	5710 UNII-2C	35.32	5689.68	5725
	Ant2	5710 UNII-2C	35.16	5689.84	5725
	Ant1	5710 UNII-3	5.24	5725	5730.24
	Ant2	5710 UNII-3	5.24	5725	5730.24
	Ant1	5755	40.80	5734.44	5775.24
	Ant2	5755	41.36	5733.88	5775.24
	Ant1	5795	41.04	5774.36	5815.40
	Ant2	5795	40.64	5774.76	5815.40
11ac20MIMO	Ant1	5180	22.28	5168.96	5191.24
	Ant2	5180	21.96	5169.04	5191.00
	Ant1	5220	22.44	5208.88	5231.32
	Ant2	5220	22.64	5208.88	5231.52
	Ant1	5240	22.24	5229.04	5251.28
	Ant2	5240	22.40	5228.84	5251.24
	Ant1	5260	22.28	5248.92	5271.20
	Ant2	5260	22.72	5249.24	5271.96
	Ant1	5300	21.92	5289.16	5311.08
	Ant2	5300	21.68	5289.16	5310.84
	Ant1	5320	22.88	5308.76	5331.64
	Ant2	5320	22.28	5308.72	5331.00
	Ant1	5500	22.20	5488.88	5511.08
	Ant2	5500	22.04	5488.84	5510.88
	Ant1	5580	22.32	5568.92	5591.24
	Ant2	5580	22.32	5568.84	5591.16
	Ant1	5700	22.20	5688.92	5711.12
	Ant2	5700	22.36	5688.96	5711.32
	Ant1	5720	22.36	5708.88	5731.24
	Ant2	5720	22.40	5708.88	5731.28
	Ant1	5720 UNII-2C	16.12	5708.88	5725
	Ant2	5720 UNII-2C	16.12	5708.88	5725
	Ant1	5720 UNII-3	6.24	5725	5731.24



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	Ant2	5720 UNII-3	6.28	5725	5731.28
	Ant1	5745	22.08	5733.80	5755.88
	Ant2	5745	22.00	5734.00	5756.00
	Ant1	5785	21.84	5774.04	5795.88
	Ant2	5785	22.36	5774.00	5796.36
	Ant1	5825	22.56	5813.56	5836.12
	Ant2	5825	22.36	5813.72	5836.08
11ac40MIMO	Ant1	5190	41.60	5169.44	5211.04
	Ant2	5190	41.04	5169.36	5210.40
	Ant1	5230	42.00	5209.60	5251.60
	Ant2	5230	40.16	5209.84	5250.00
	Ant1	5270	40.40	5250.00	5290.40
	Ant2	5270	40.80	5249.60	5290.40
	Ant1	5310	40.48	5289.68	5330.16
	Ant2	5310	40.72	5289.60	5330.32
	Ant1	5510	40.72	5489.60	5530.32
	Ant2	5510	40.88	5489.68	5530.56
	Ant1	5550	41.44	5528.88	5570.32
	Ant2	5550	40.56	5529.68	5570.24
	Ant1	5670	40.64	5649.36	5690.00
	Ant2	5670	41.20	5648.88	5690.08
	Ant1	5710	42.08	5688.40	5730.48
	Ant2	5710	40.88	5689.12	5730.00
	Ant1	5710 UNII-2C	36.6	5688.40	5725
	Ant2	5710 UNII-2C	35.88	5689.12	5725
	Ant1	5710 UNII-3	5.48	5725	5730.48
	Ant2	5710 UNII-3	5	5725	5730.00
	Ant1	5755	41.68	5733.72	5775.40
	Ant2	5755	40.88	5734.36	5775.24
	Ant1	5795	41.04	5774.12	5815.16
	Ant2	5795	41.20	5774.28	5815.48
11ac80MIMO	Ant1	5210	84.80	5168.24	5253.04
	Ant2	5210	83.36	5168.08	5251.44
	Ant1	5290	84.16	5248.24	5332.40
	Ant2	5290	83.20	5248.56	5331.76
	Ant1	5530	84.64	5487.28	5571.92
	Ant2	5530	83.52	5488.08	5571.60
	Ant1	5610	84.16	5567.60	5651.76
	Ant2	5610	83.20	5568.24	5651.44
	Ant1	5690	86.08	5646.16	5732.24
	Ant2	5690	84.16	5647.44	5731.60
	Ant1	5690 UNII-2C	78.84	5646.16	5725
	Ant2	5690 UNII-2C	77.56	5647.44	5725
	Ant1	5690 UNII-3	7.24	5725	5732.24
	Ant2	5690 UNII-3	6.6	5725	5731.60
	Ant1	5775	85.60	5731.16	5816.76
	Ant2	5775	83.52	5733.40	5816.92



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### Test Graphs

11a-CDD\_Ant1\_5180



11:56:42 01.04.2022

11a-CDD\_Ant2\_5180



11:57:57 01.04.2022



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### 11a-CDD\_Ant1\_5220



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### 11a-CDD\_Ant2\_5220



11:59:19 01.04.2022



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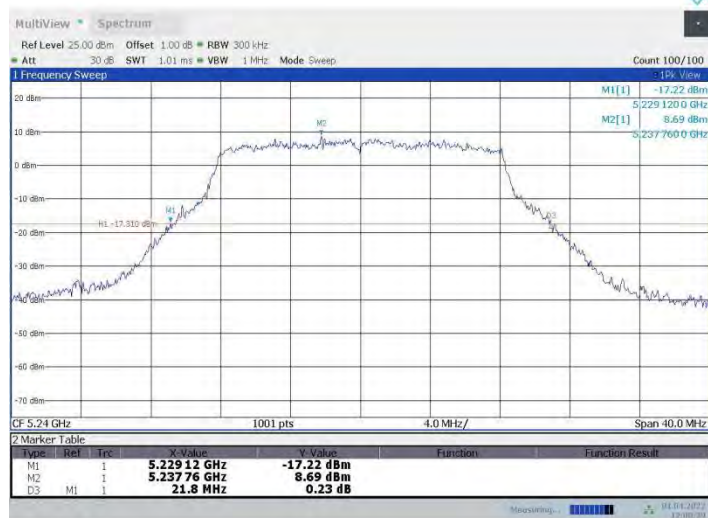


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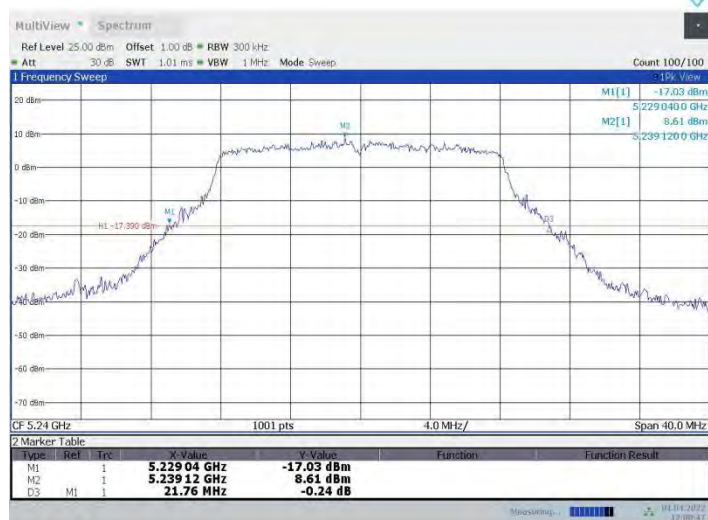
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### 11a-CDD\_Ant1\_5240



12:00:39 01.04.2022

### 11a-CDD\_Ant2\_5240



12:00:48 01.04.2022



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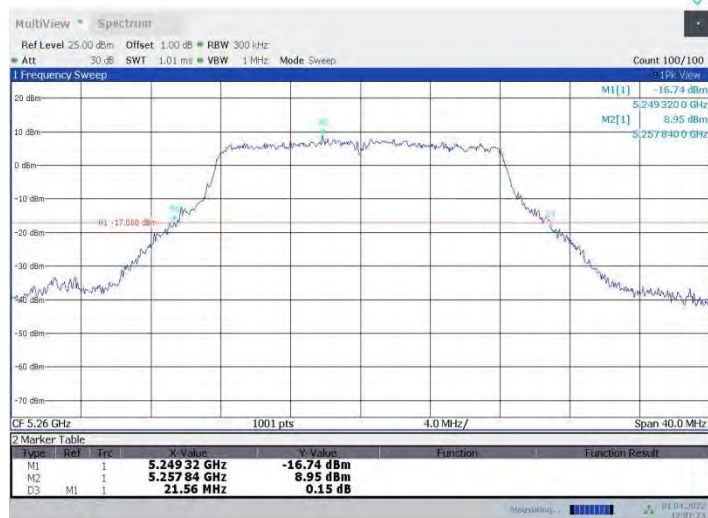
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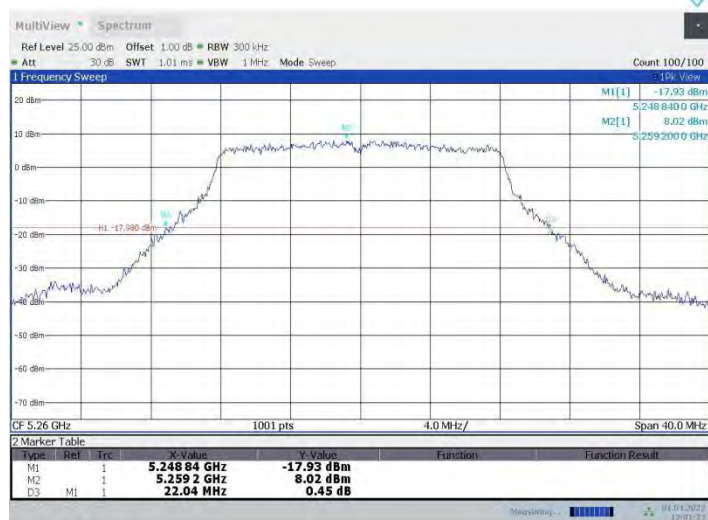
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### 11a-CDD\_Ant1\_5260



12:01:14 01.04.2022

### 11a-CDD\_Ant2\_5260



12:01:22 01.04.2022



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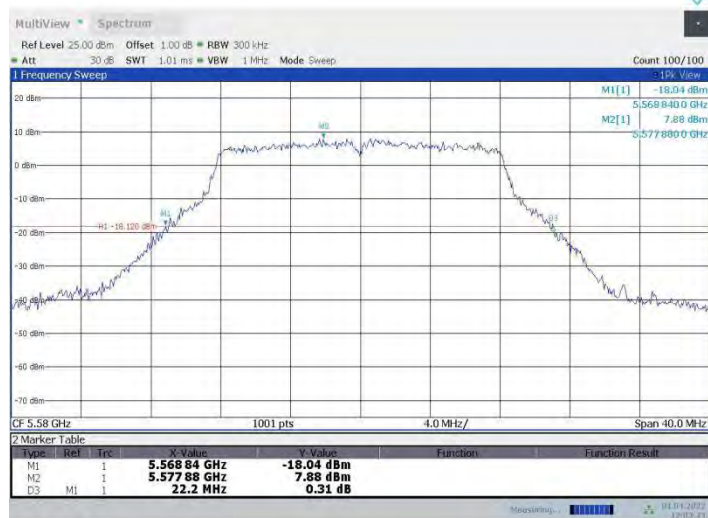
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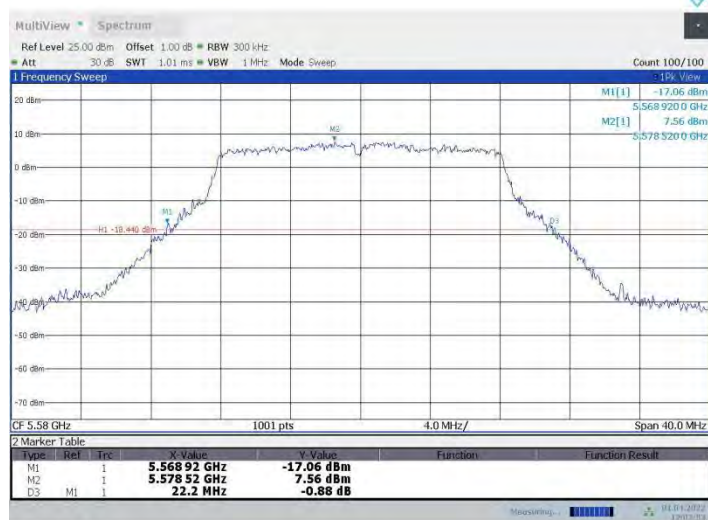
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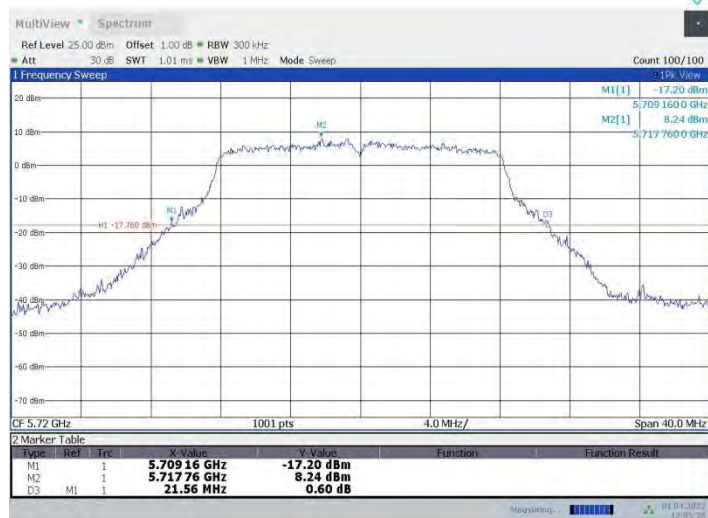


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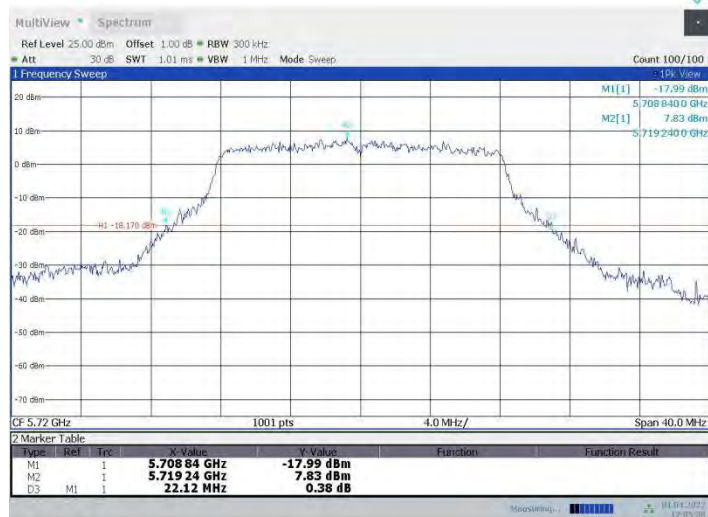
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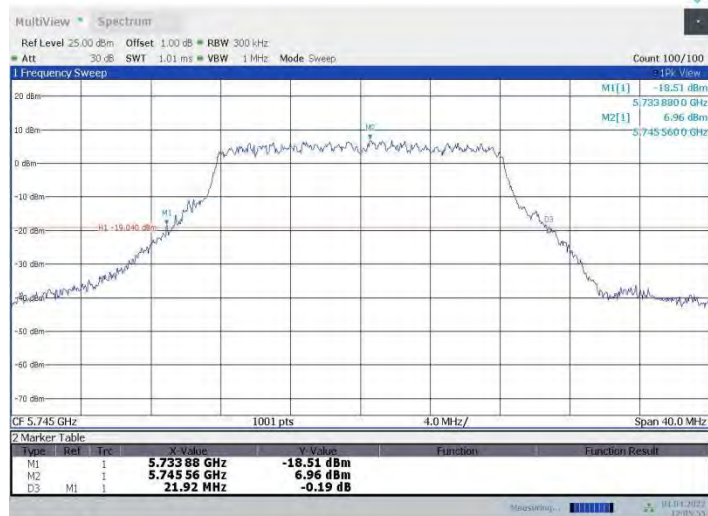


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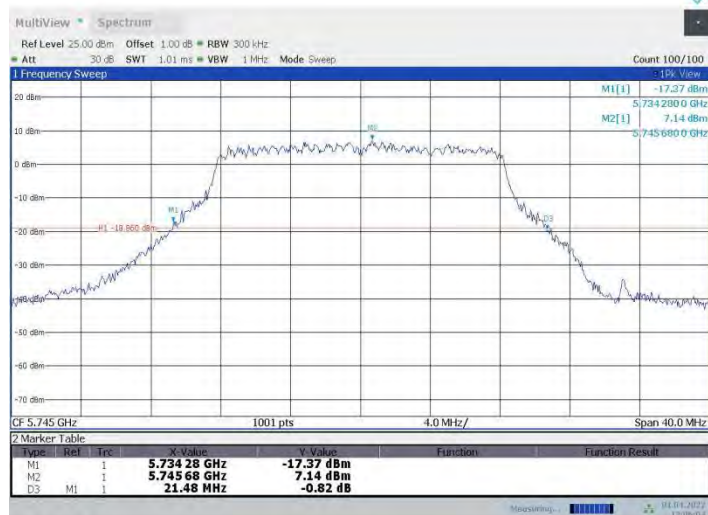
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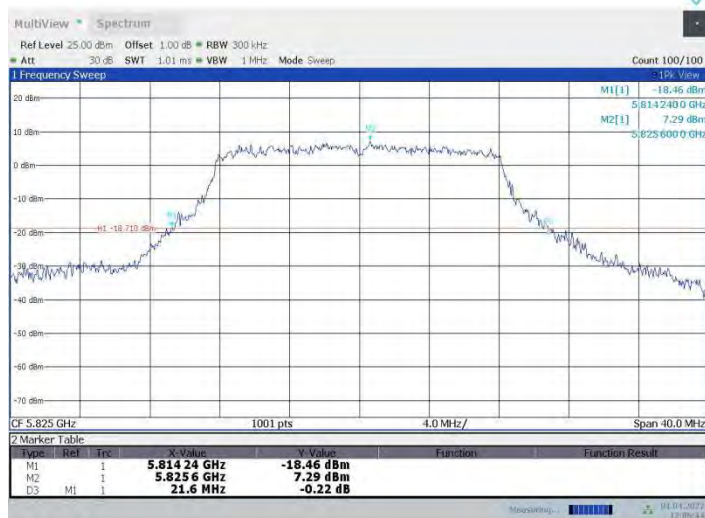
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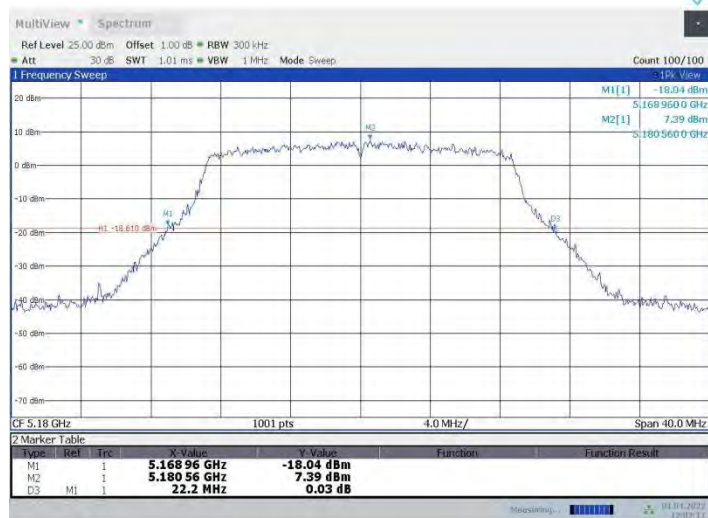


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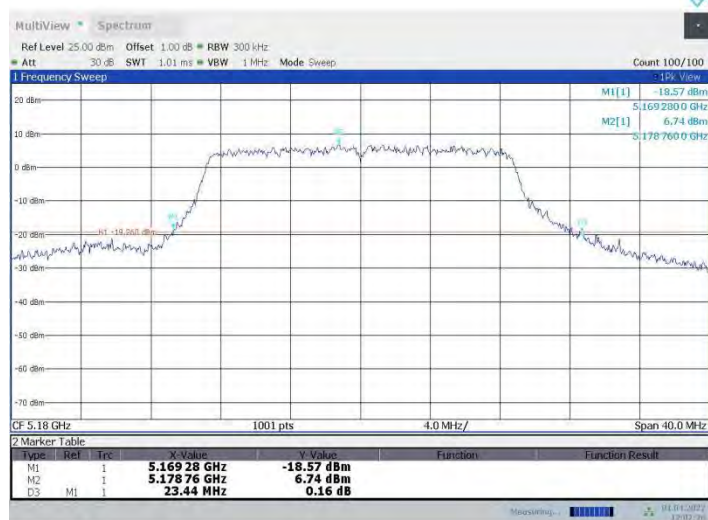
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### 11n20MIMO\_Ant1\_5180



12:07:18 01.04.2022

### 11n20MIMO\_Ant2\_5180



12:07:27 01.04.2022



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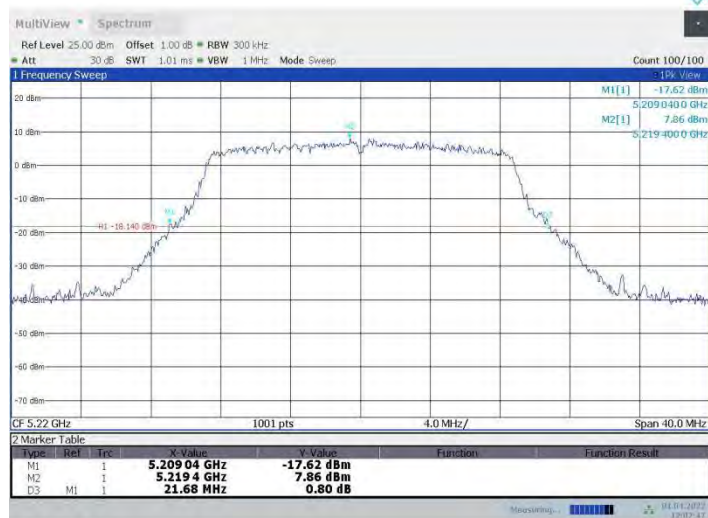


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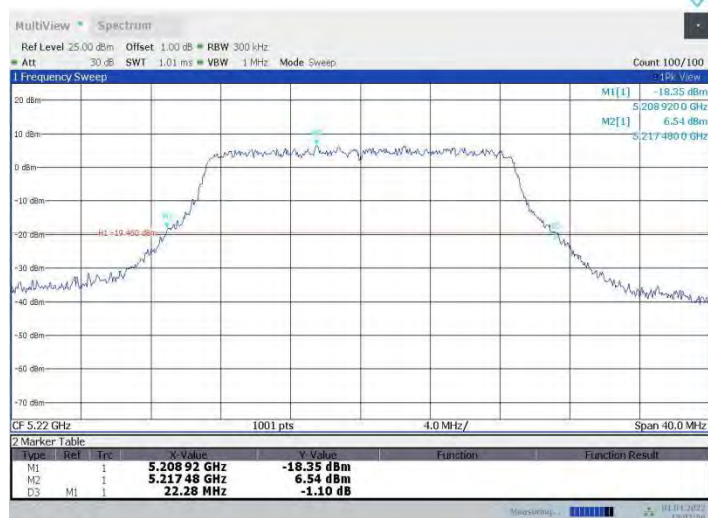
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### 11n20MIMO\_Ant1\_5220



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### 11n20MIMO\_Ant2\_5220



12:07:57 01.04.2022



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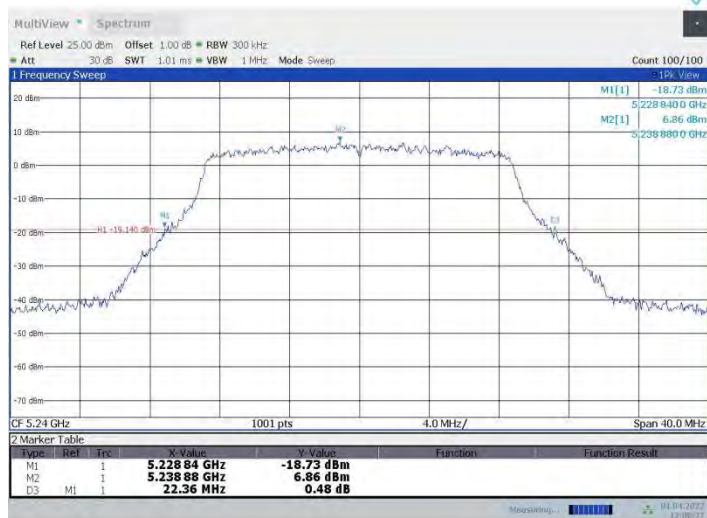
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### 11n20MIMO\_Ant1\_5240



12:08:28 01.04.2022

### 11n20MIMO\_Ant2\_5240



12:08:37 01.04.2022



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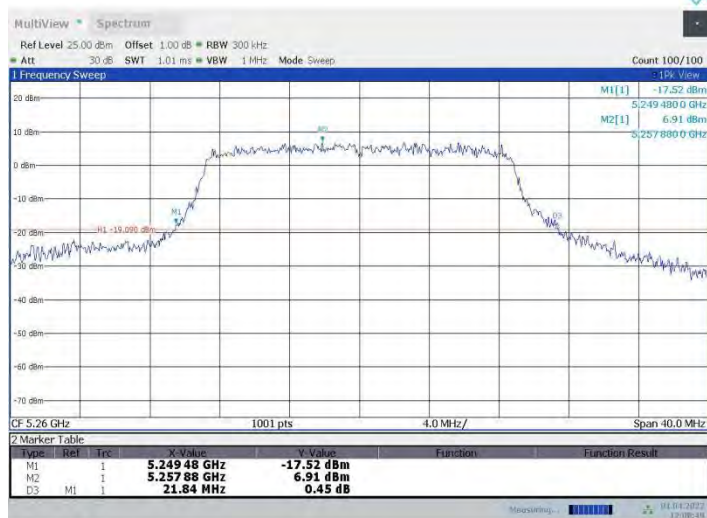
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### 11n20MIMO\_Ant1\_5260



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### 11n20MIMO\_Ant2\_5260



12:08:59 01.04.2022



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### 11n20MIMO\_Ant1\_5300



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### 11n20MIMO\_Ant2\_5300



12:09:22 01.04.2022



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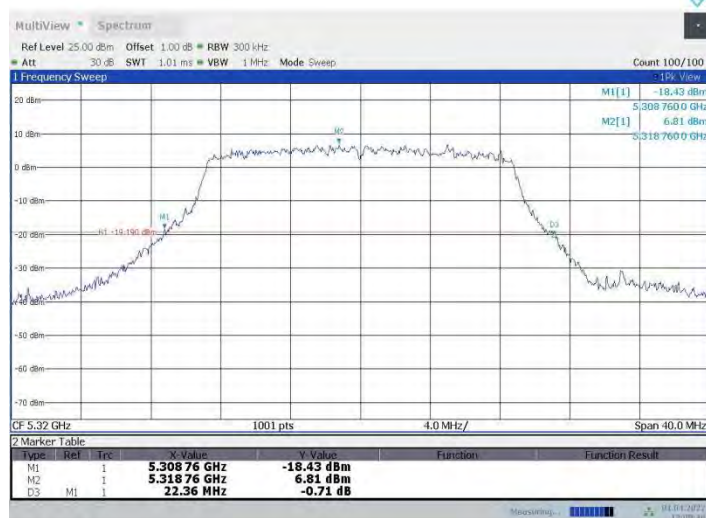
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### 11n20MIMO\_Ant1\_5320



12:09:38 01.04.2022

### 11n20MIMO\_Ant2\_5320



12:09:46 01.04.2022



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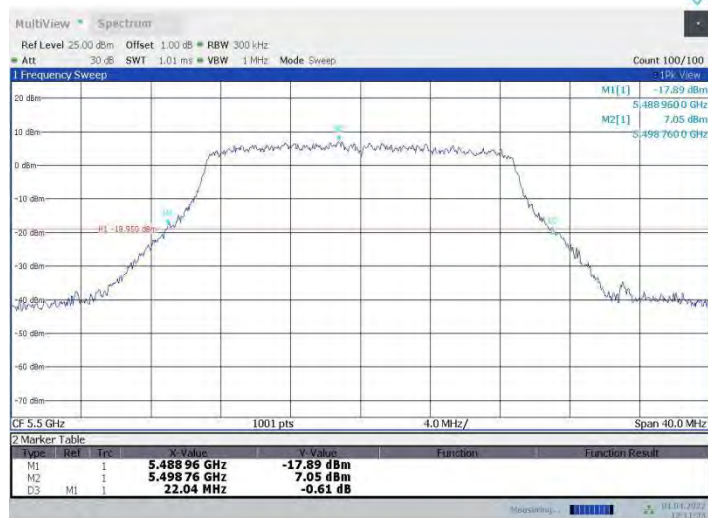
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### 11n20MIMO\_Ant2\_5500



12:11:44 01.04.2022



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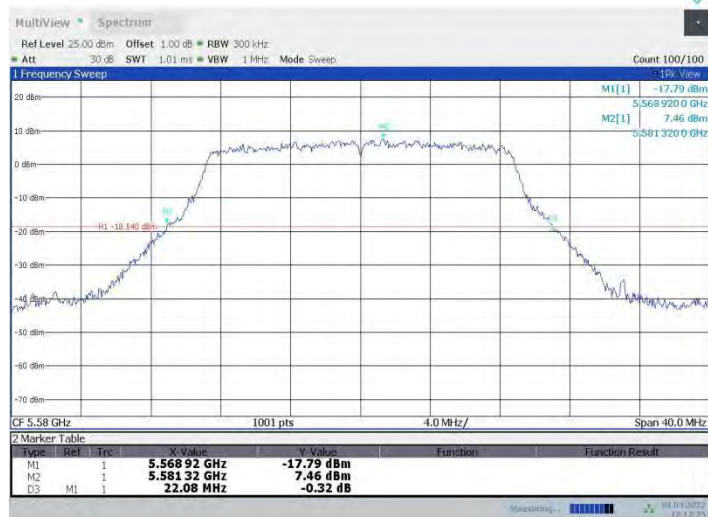
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12:12:17 01.04.2022

### 11n20MIMO\_Ant2\_5580



12:12:26 01.04.2022



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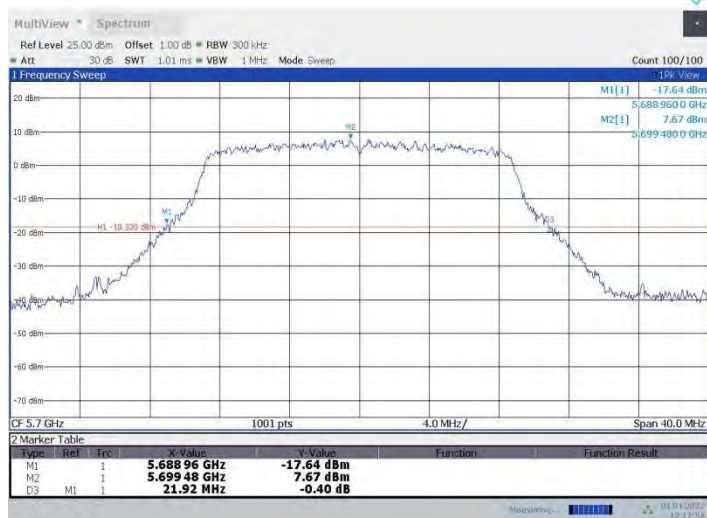


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### 11n20MIMO\_Ant2\_5700



12:13:04 01.04.2022



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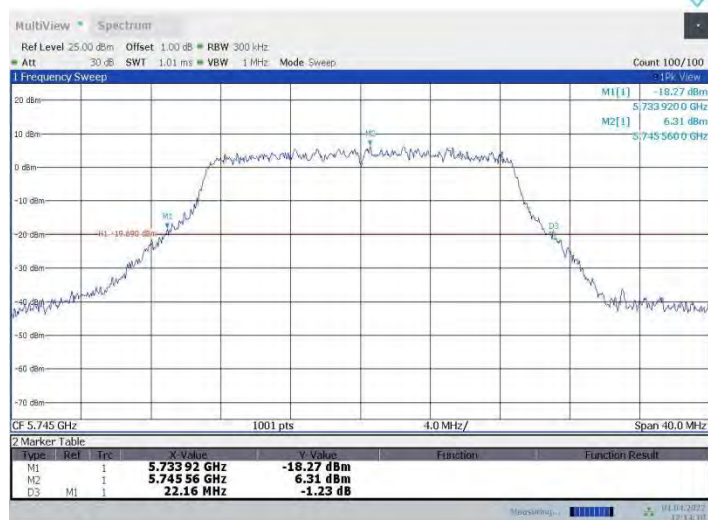
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### 11n20MIMO\_Ant2\_5745



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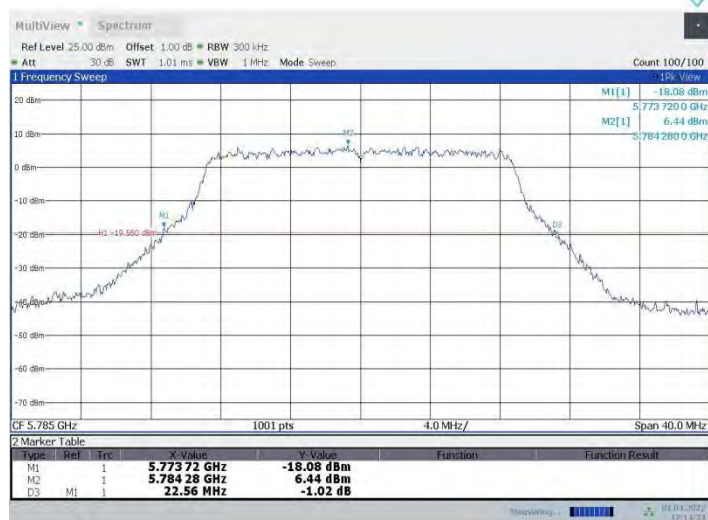
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### 11n20MIMO\_Ant2\_5785



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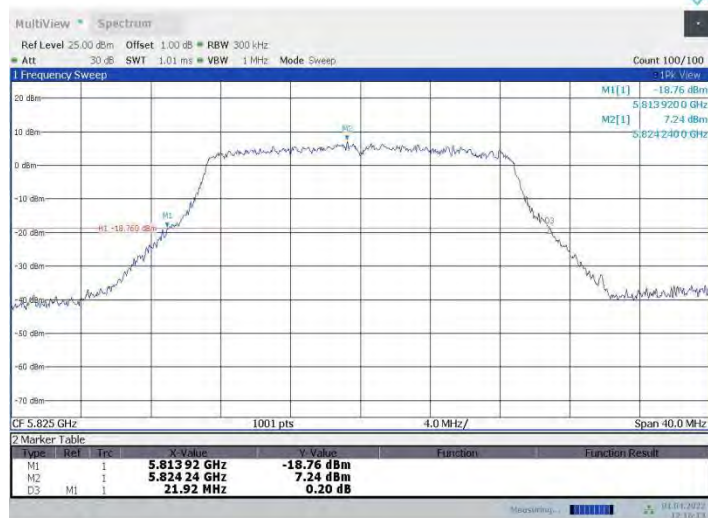


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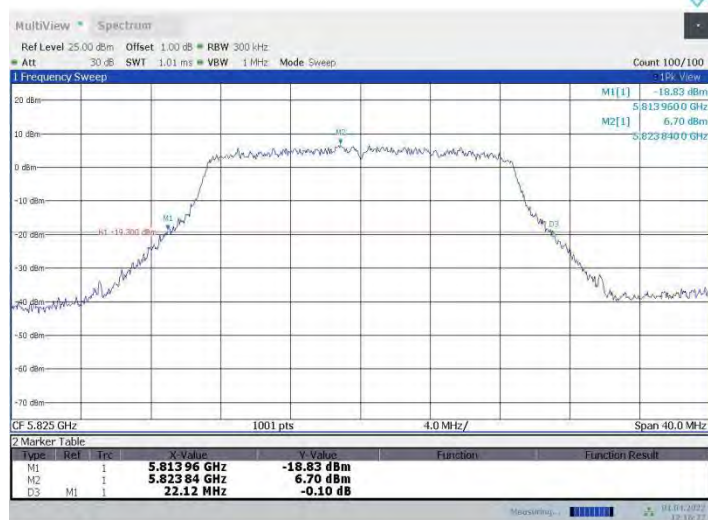
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### 11n20MIMO\_Ant1\_5825



12:16:13 01.04.2022

### 11n20MIMO\_Ant2\_5825



12:16:22 01.04.2022



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### 11n40MIMO\_Ant1\_5190



10:16:08 01.03.2022

### 11n40MIMO\_Ant2\_5190



10:17:13 01.03.2022



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### 11n40MIMO\_Ant1\_5230



10:28:10 01.03.2022

### 11n40MIMO\_Ant2\_5230



10:51:37 01.03.2022



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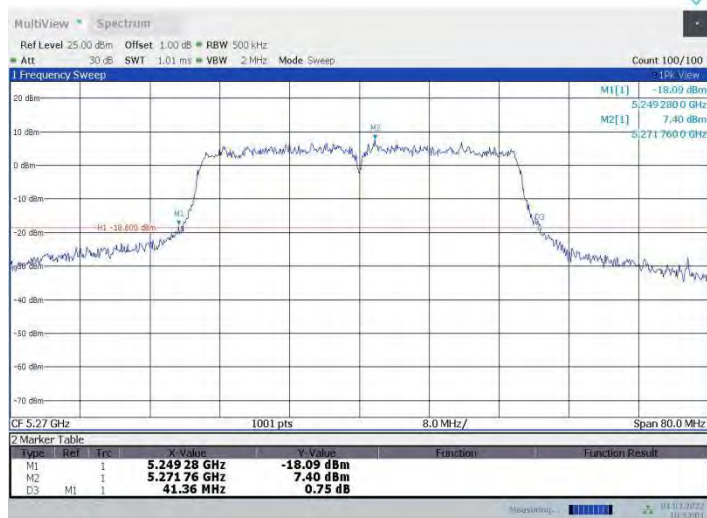
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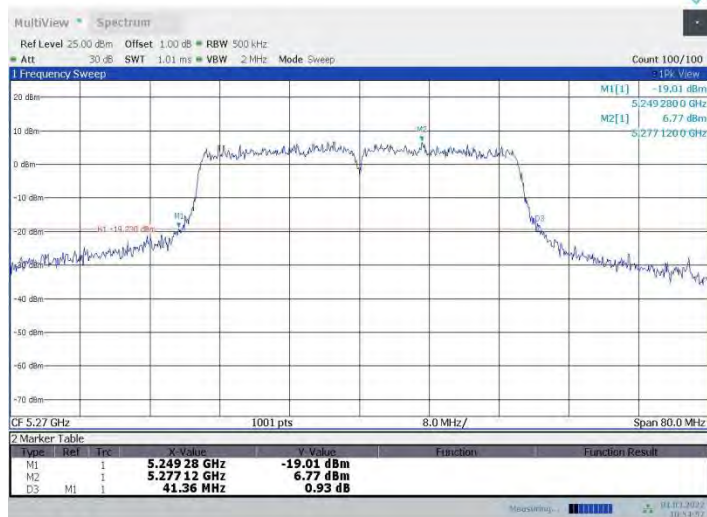
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### 11n40MIMO\_Ant1\_5270



10:53:01 01.03.2022

### 11n40MIMO\_Ant2\_5270



10:54:57 01.03.2022



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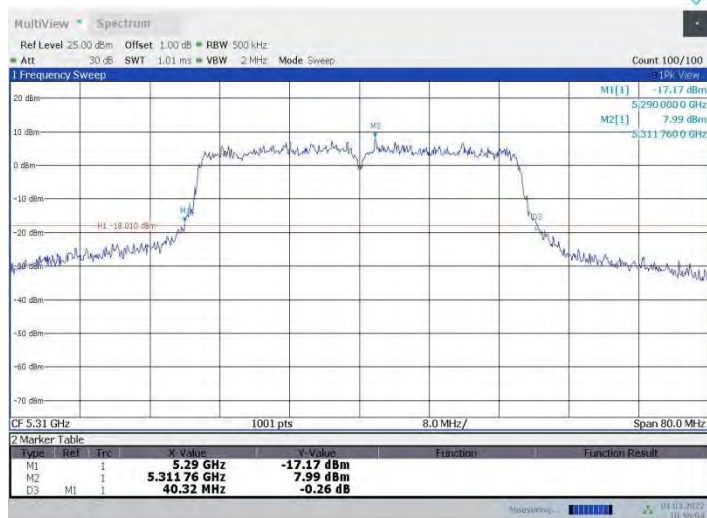


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### 11n40MIMO\_Ant1\_5310



10:56:04 01.03.2022

### 11n40MIMO\_Ant2\_5310



10:58:57 01.03.2022



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### 11n40MIMO\_Ant1\_5510



11:00:08 01.03.2022

### 11n40MIMO\_Ant2\_5510



11:01:14 01.03.2022



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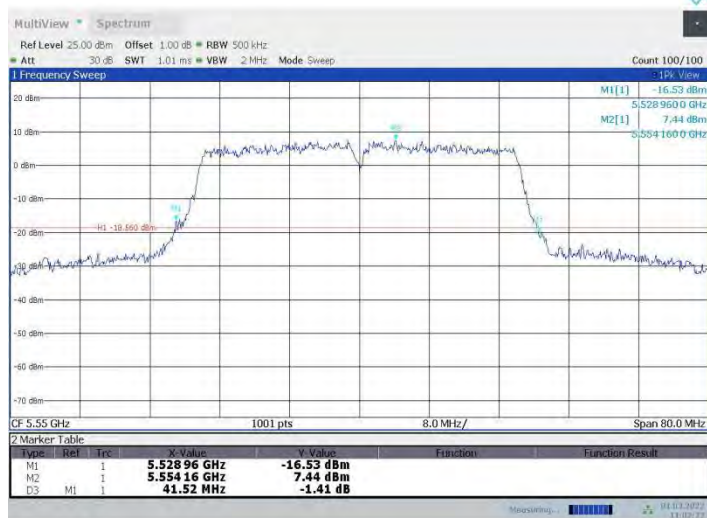
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### 11n40MIMO\_Ant1\_5550



11:02:22 01.03.2022

### 11n40MIMO\_Ant2\_5550



11:04:02 01.03.2022



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### 11n40MIMO\_Ant1\_5670



11:05:49 01.03.2022

### 11n40MIMO\_Ant2\_5670



11:07:27 01.03.2022



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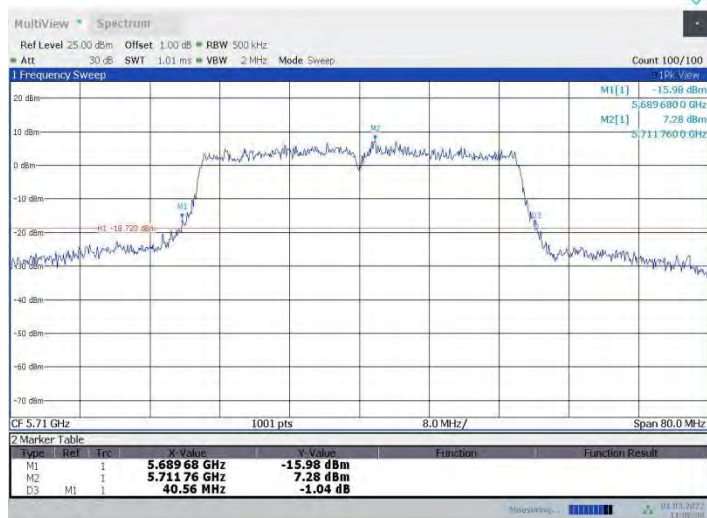


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### 11n40MIMO\_Ant1\_5710



11:08:38 01.03.2022

### 11n40MIMO\_Ant2\_5710



11:10:15 01.03.2022



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### 11n40MIMO\_Ant2\_5755



11:14:06 01.03.2022



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11:17:18 01.03.2022

### 11n40MIMO\_Ant2\_5795



11:18:26 01.03.2022



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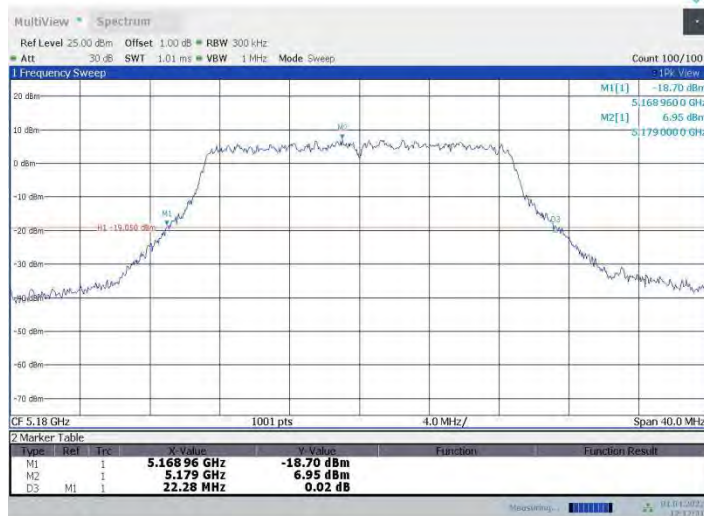
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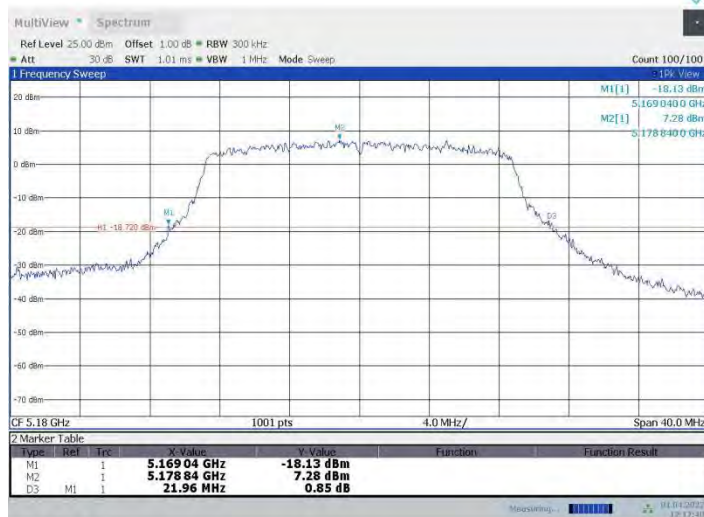
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12:17:31 01.04.2022

### 11ac20MIMO\_Ant2\_5180



12:17:40 01.04.2022



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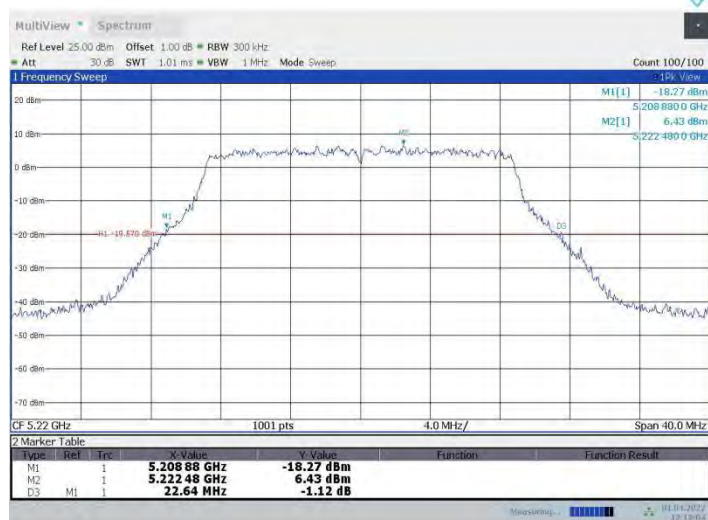
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### 11ac20MIMO\_Ant1\_5220



12:17:55 01.04.2022

### 11ac20MIMO\_Ant2\_5220



12:18:04 01.04.2022



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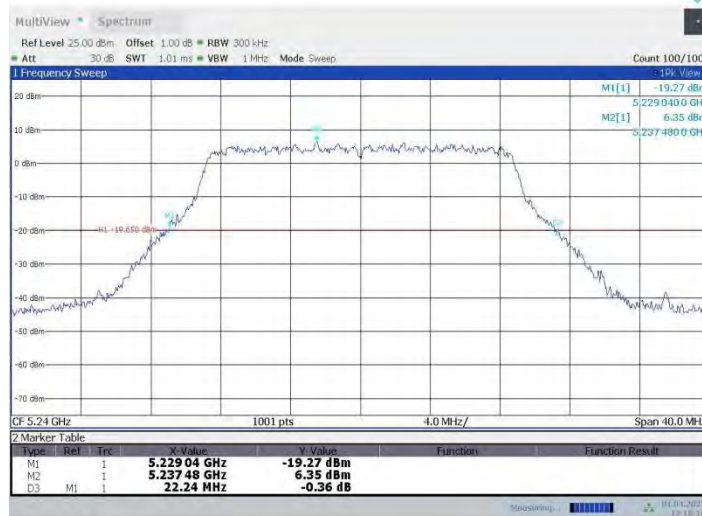


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### 11ac20MIMO\_Ant2\_5240



12:18:27 01.04.2022



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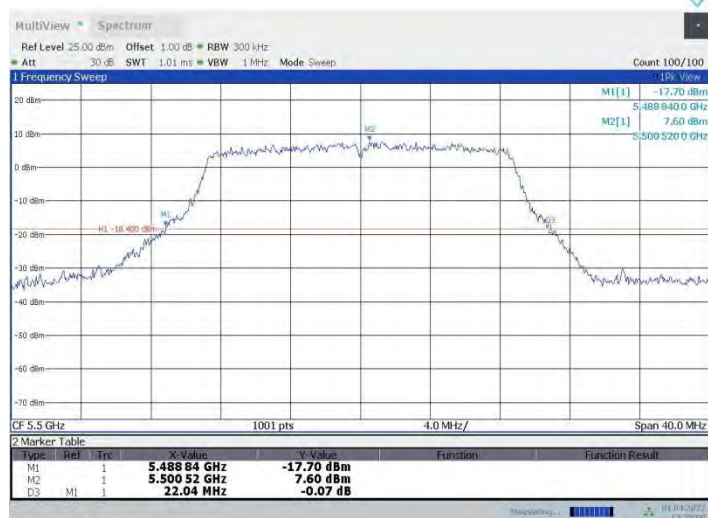
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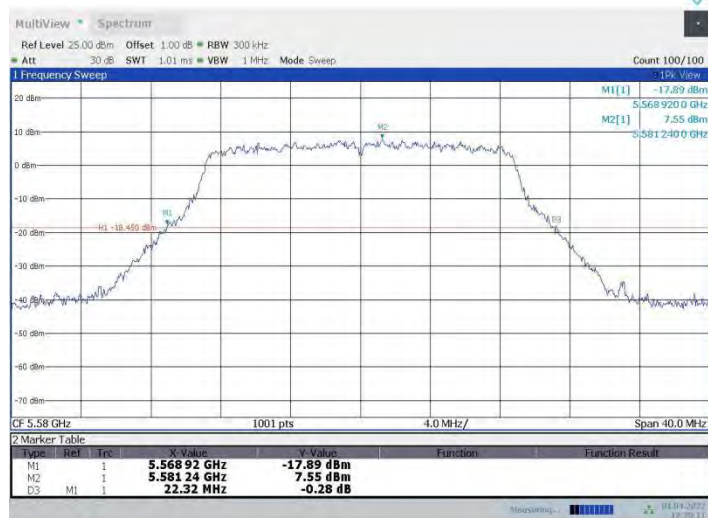
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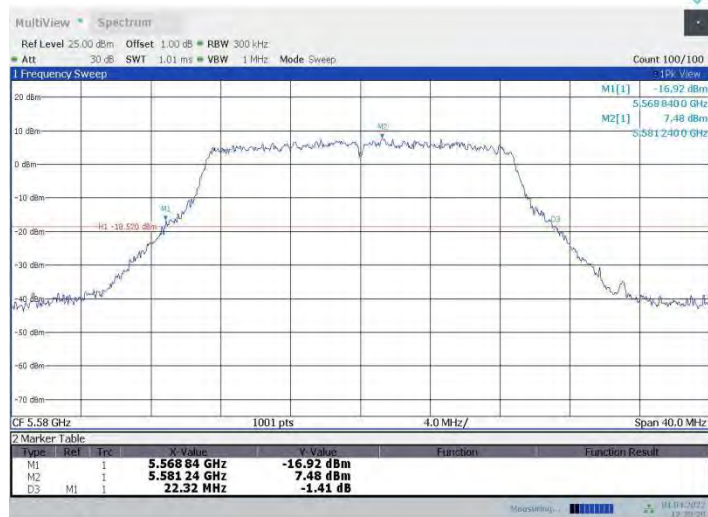
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### 11ac20MIMO\_Ant1\_5580



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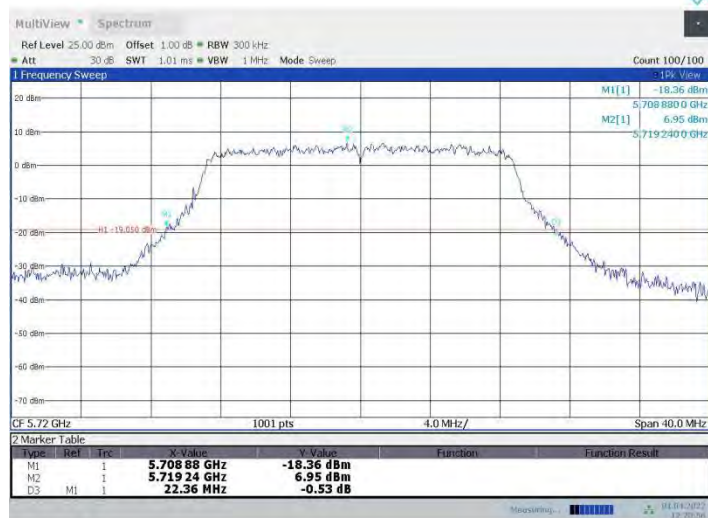
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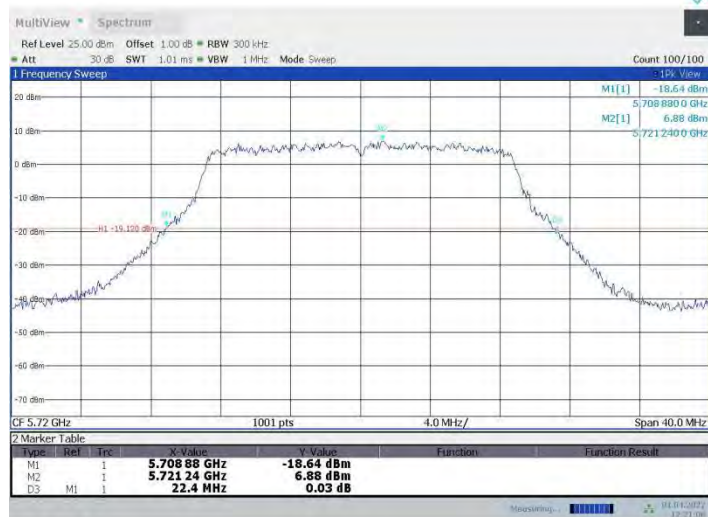
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### 11ac20MIMO\_Ant1\_5720



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### 11ac20MIMO\_Ant2\_5720



12:21:06 01.04.2022



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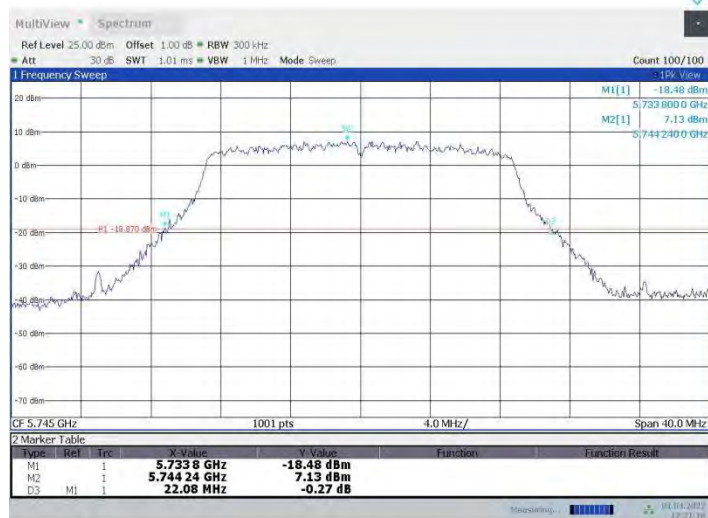
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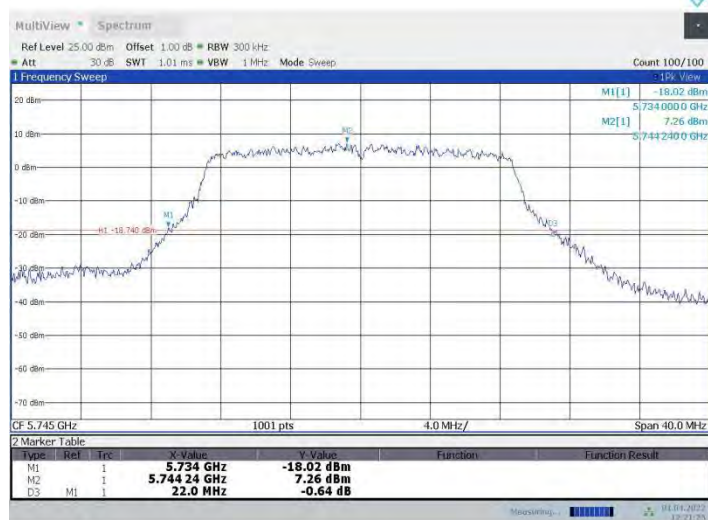
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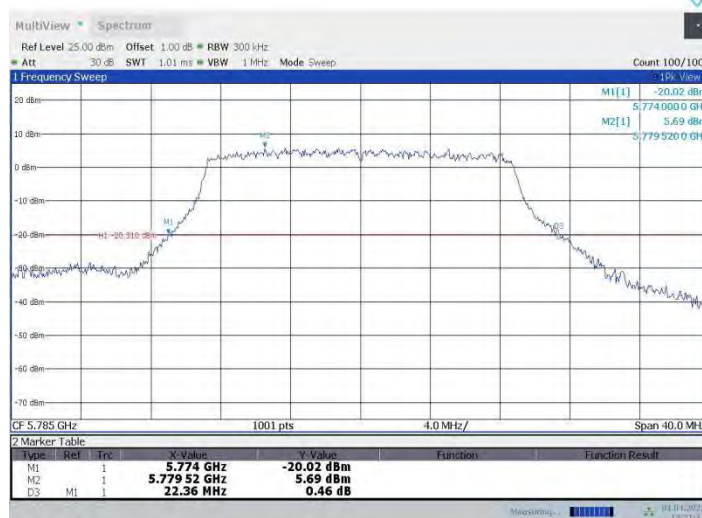
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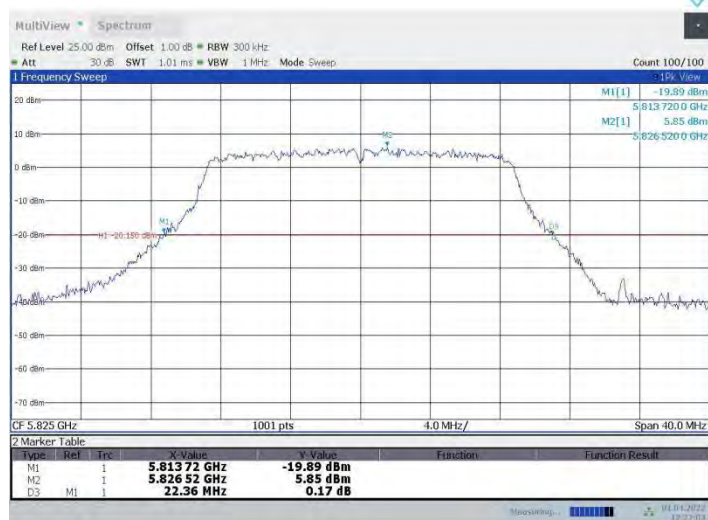
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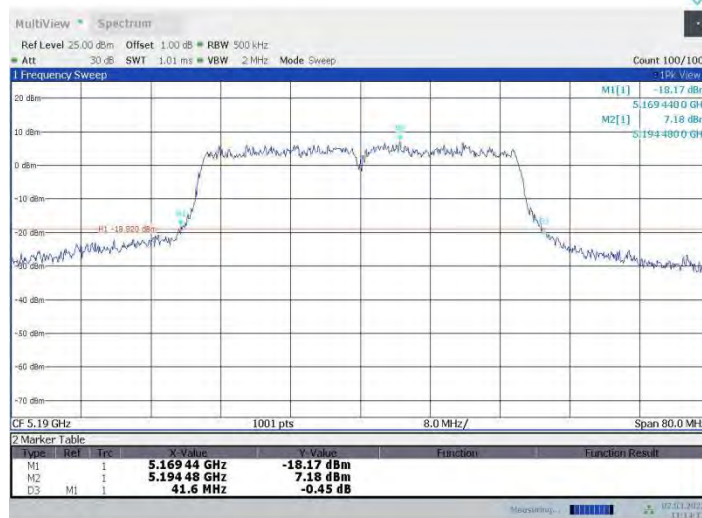
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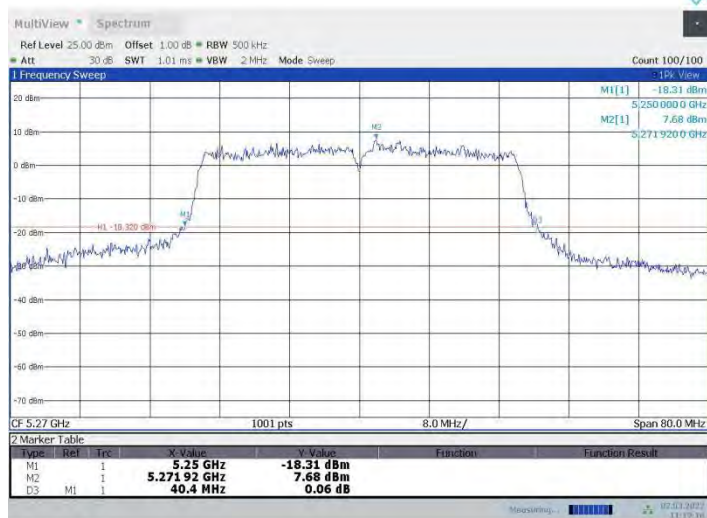
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### 11ac40MIMO\_Ant1\_5270



11:19:16 02.03.2022

### 11ac40MIMO\_Ant2\_5270



11:20:24 02.03.2022



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### 11ac40MIMO\_Ant1\_5310



13:26:31 02.03.2022

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15:09:31 02.03.2022



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### 11ac40MIMO\_Ant1\_5510



15:11:05 02.03.2022

### 11ac40MIMO\_Ant2\_5510



15:18:32 02.03.2022



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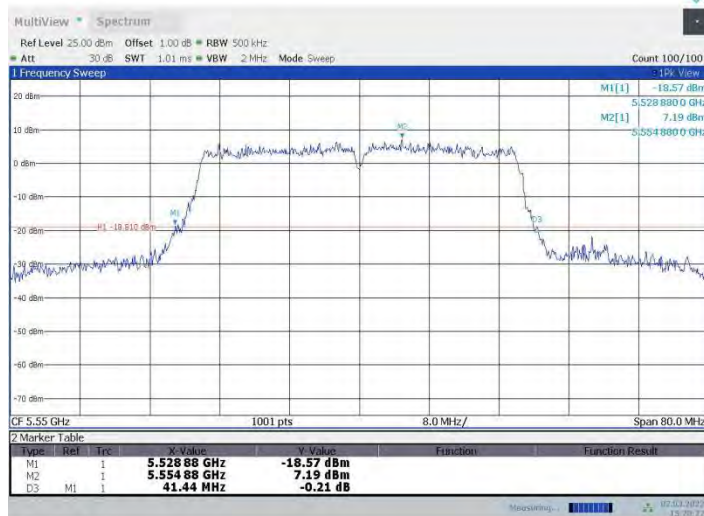
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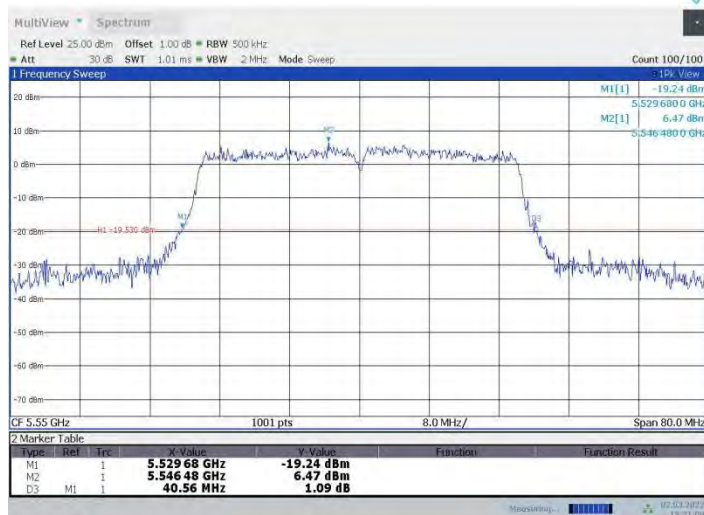
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### 11ac40MIMO\_Ant1\_5550



15:20:23 02.03.2022

### 11ac40MIMO\_Ant2\_5550



15:21:09 02.03.2022



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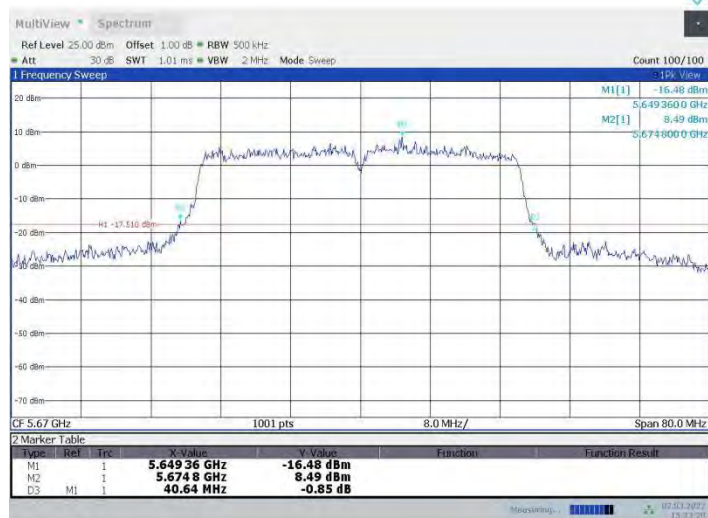
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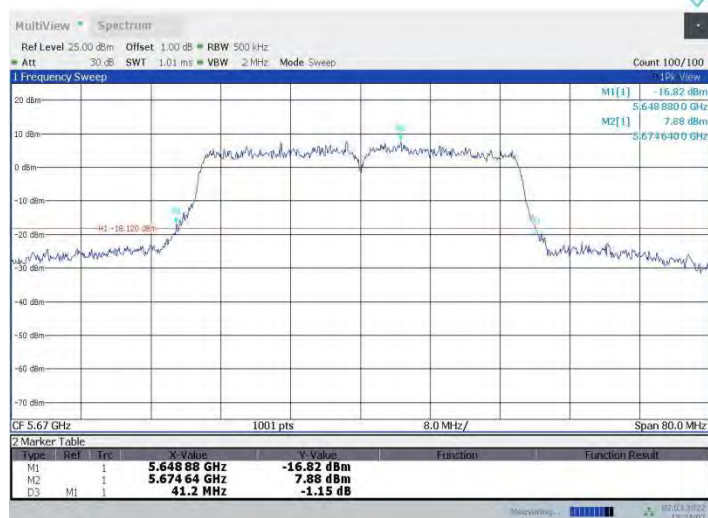
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### 11ac40MIMO\_Ant1\_5670



15:23:21 02.03.2022

### 11ac40MIMO\_Ant2\_5670



15:24:07 02.03.2022



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### 11ac40MIMO\_Ant1\_5710



15:26:25 02.03.2022

### 11ac40MIMO\_Ant2\_5710



15:28:30 02.03.2022



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15:30:42 02.03.2022

### 11ac40MIMO\_Ant2\_5755



15:32:08 02.03.2022



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15:41:57 02.03.2022



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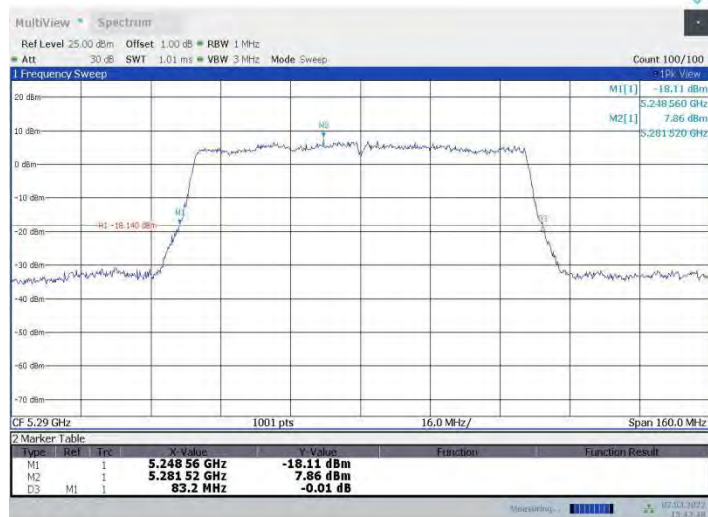
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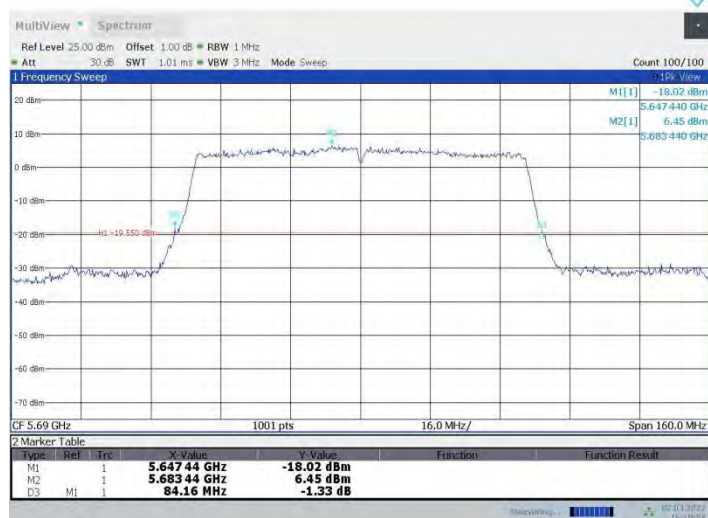
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### 11ac80MIMO\_Ant2\_5690



16:10:54 02.03.2022



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