

Report No.: SEWM2209000170RG06

Rev.: 01

Page: 1 of 750

# TEST REPORT

**Application No.:** SEWM2209000170RG  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** 22101316G  
**Trade Mark:** Redmi  
**FCC ID:** 2AFZZ1316G  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2022/09/02  
**Date of Test:** 2022/09/09 to 2022/10/02  
**Date of Issue:** 2022/10/09

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:


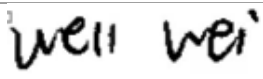
Panta Sun  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/10/09		Original

<b>Prepared By</b>		 <hr/> (Tizzy Song) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(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	--	No limit.	Clause 4.3	Reporting only
	Band II-A				
	Band II-C				
	Band III				
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				
	Band III	15.407(a)(3)	< 1W		
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				
	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



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	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) 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).		PASS
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A





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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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:	Tizzy Song, Lves Cheng

#### 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:	Mobile Phone	
Model No.:	22101316G	
Trade Mark:	Redmi	
Hardware Version:	P2	
Software Version:	MIUI14	
IMEI:	RF Conducted	861485060061299 861485060061278 861485060061307 861485060061378
	RSE & AC power line	861485060084416 861485060084424
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
	802.11ax:	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/ax:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
Antenna Type:	PIFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: 1.51dBi(Ant1); -1.11dBi(Ant2); 5250MHz to 5350MHz: 2.21dBi(Ant1); 0.54dBi(Ant2); 5470MHz to 5725MHz: 2.81dBi(Ant1); 1.97dBi(Ant2); 5725MHz to 5850MHz: -0.45dBi (Ant1); 1.71dBi (Ant2);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac/ax
	<input checked="" type="checkbox"/> MIMO	802.11n/ac/ax: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	CDD: 802.11a: 2Tx & 2Rx
DFS Function:	<input type="checkbox"/> Master	



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	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	2dB	
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.		

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/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

For UNII Band II-A:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax 80MHz	The Middle channel	5290





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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	138 <sup>#</sup>	5690	144	5720
	142 <sup>*</sup>	5710		

**Note:**

1. The above Frequency and Channel in “\*” were 802.11n HT40, 802.11ac VHT40 and ax(HE40).
2. The above Frequency and Channel in “#” were 802.11ac VHT80 and ax(HE80).



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### 3.5 Test Environment and Mode

<b>Environment Parameter</b>	101.0 kPa Selected Values During Tests	
<b>Relative Humidity</b>	44-46 % RH Ambient	
<b>Value</b>	<b>Temperature(°C)</b>	<b>Voltage(V)</b>
NTNV	22~23	3.87
Remark: NV: Normal Voltage NT: Normal Temperature		

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.

### 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	CDD/MIMO - Data Rate
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	MCS0 (58.5 Mbps)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 Mbps)
802.11ax (HE 80)	MCS0 (34 Mbps)	MCS0 (68 Mbps)



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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
<p>The antenna is PIFA antenna and no consideration of replacement. The best case gain of the antenna is          5150MHz to 5250MHz: 1.51dBi(Ant1); -1.11dBi(Ant2);          5250MHz to 5350MHz: 2.21dBi(Ant1); 0.54dBi(Ant2);          5470MHz to 5725MHz: 2.81dBi(Ant1); 1.97dBi(Ant2);          5725MHz to 5850MHz: -0.45dBi (Ant1); 1.71dBi (Ant2);*</p> <p><i>*Note:</i>          The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</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.</p>	



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**Cyclic Delay Diversity (CDD) System:**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,  
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$ .
- For power measurements on IEEE 802.11 devices:  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for  $N_{ANT} \leq 4$ ;  
 $Array\ Gain = 0 \text{ dB}$  (i.e., no array gain) for channel widths  $\geq 40 \text{ MHz}$  for any  $N_{ANT}$ ;  
 $Array\ Gain = 5 \log(N_{ANT}/N_{SS}=1) \text{ dB}$  or  $3 \text{ dB}$ , whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1, G_2, \dots, G_N \text{ dBi}$

- If transmit signals are correlated, then  
 $Directional\ gain = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$  [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.]
- If all transmit signals are completely uncorrelated, then  
 $Directional\ gain = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$

**The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.**

Unequal antenna gain:

Transmit signals are completely uncorrelated						
Frequency (MHz)	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150-5250	1.5	-1.1	0.39	3.31	0	0
5250-5350	2.2	0.5	1.43	4.40	0	0
5470-5725	2.8	2	2.42	5.42	0	0
5725-5850	-0.5	1.7	0.74	3.68	0	0



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



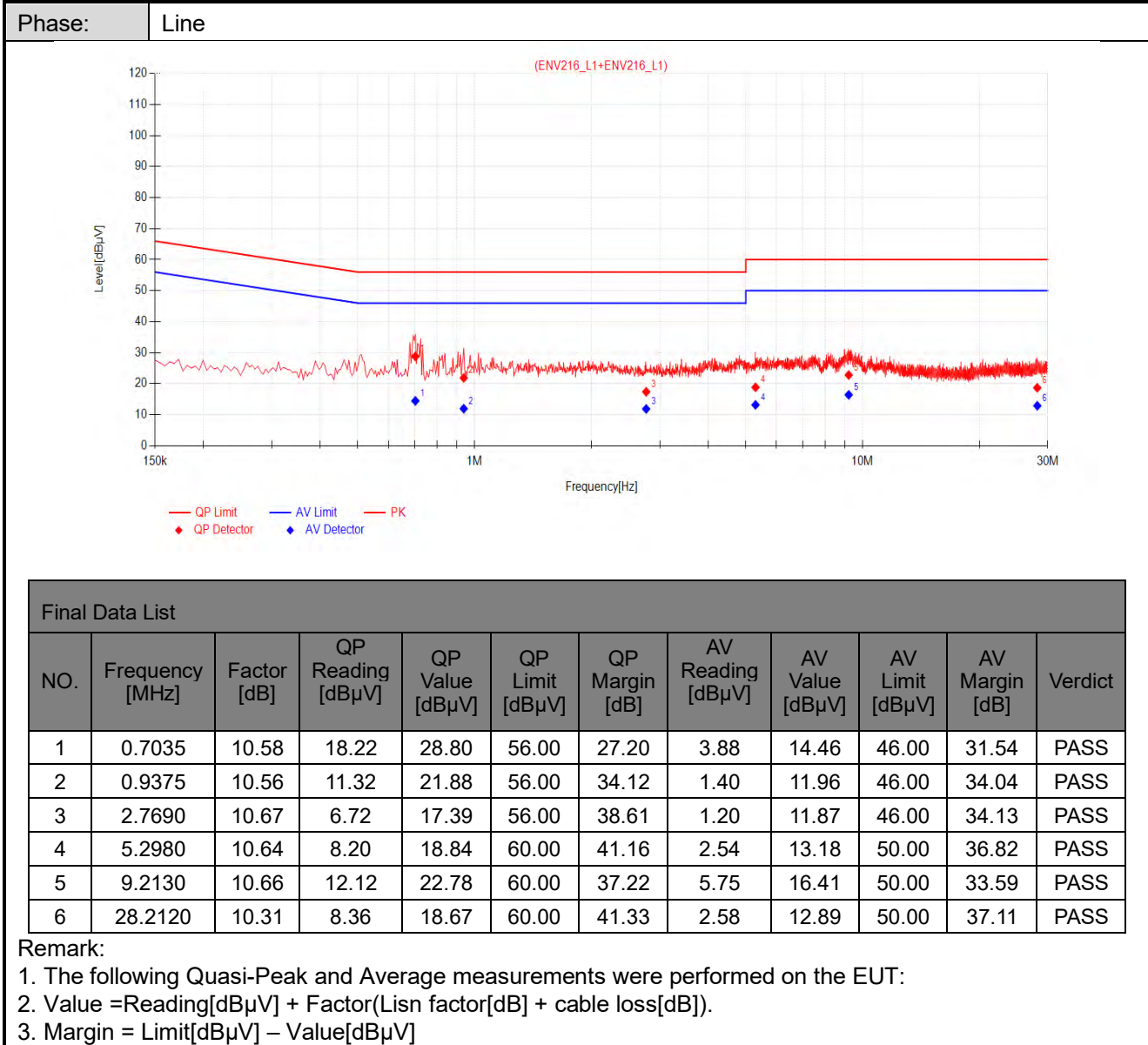
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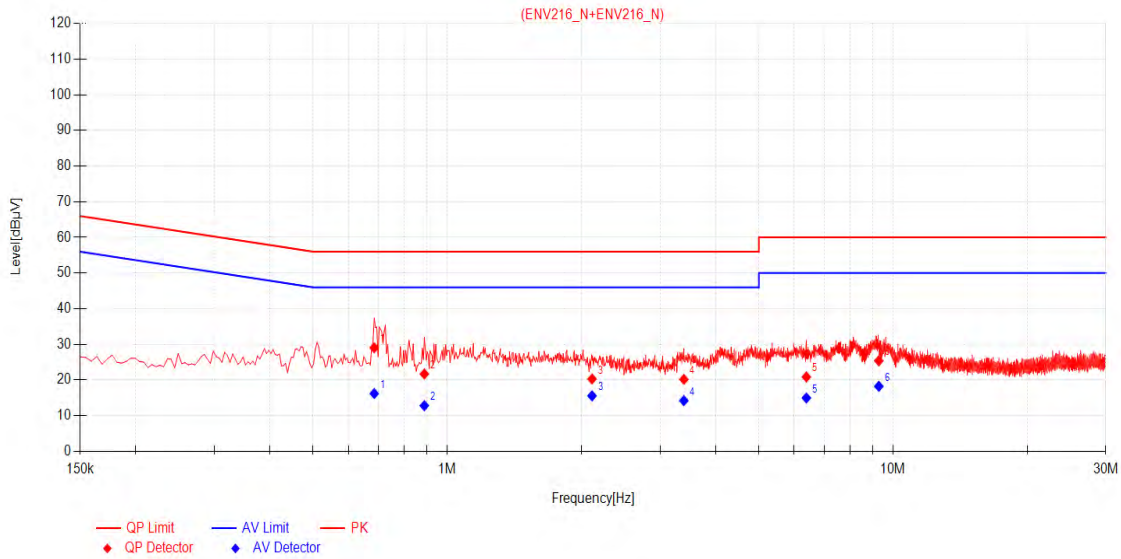
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Measurement Data

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



Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6855	10.79	18.25	29.04	56.00	26.96	5.40	16.19	46.00	29.81	PASS
2	0.8880	10.78	10.93	21.71	56.00	34.29	2.02	12.80	46.00	33.20	PASS
3	2.1120	10.77	9.52	20.29	56.00	35.71	4.78	15.55	46.00	30.45	PASS
4	3.3945	10.66	9.51	20.17	56.00	35.83	3.55	14.21	46.00	31.79	PASS
5	6.3915	10.55	10.30	20.85	60.00	39.15	4.41	14.96	50.00	35.04	PASS
6	9.2940	10.64	14.75	25.39	60.00	34.61	7.60	18.24	50.00	31.76	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

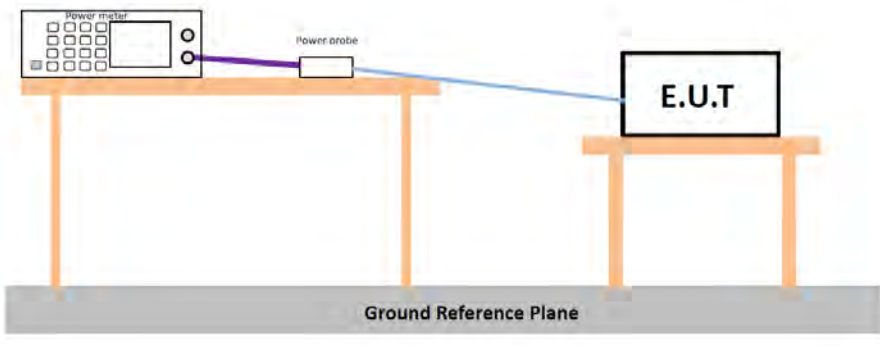
The detailed test data see: **Appendix**



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3	
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 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 Section 11.8 Option 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: <b>Appendix</b>	



### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2	
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: <b>Appendix</b>		





### 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 6.9.3
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: <b>Appendix</b>	



### 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 Section 11.10.2 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		



### 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:

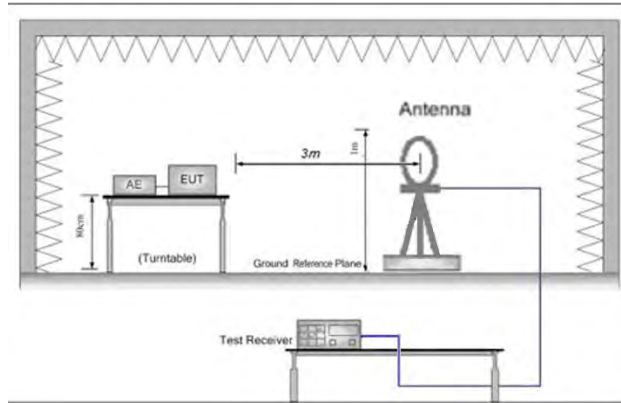


Figure 1. 9kHz to 30MHz

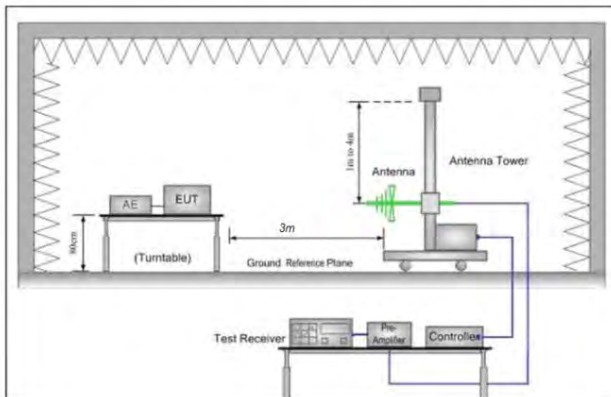


Figure 1. 30MHz to 1GHz

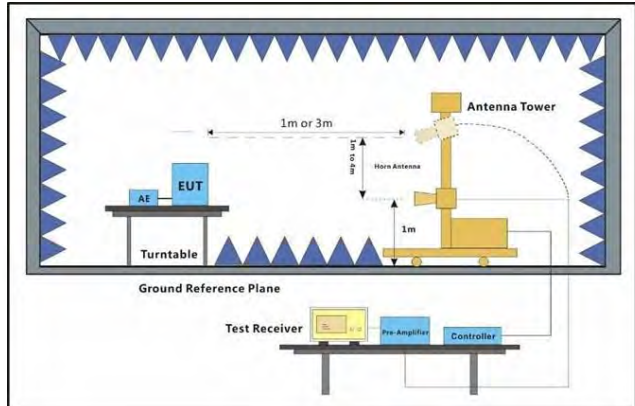


Figure 2. Above 1 GHz

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.
- For each suspected emission, the EUT was arranged to its worst case and





	<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. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
<p>Test Configuration:</p>	<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 <math>\geq 3 \text{ MHz}</math></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 <math>\geq [3 \cdot \text{RBW}]</math></li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq (\text{RBW} / 2)</math>. 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>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: <b>Appendix</b></p>	

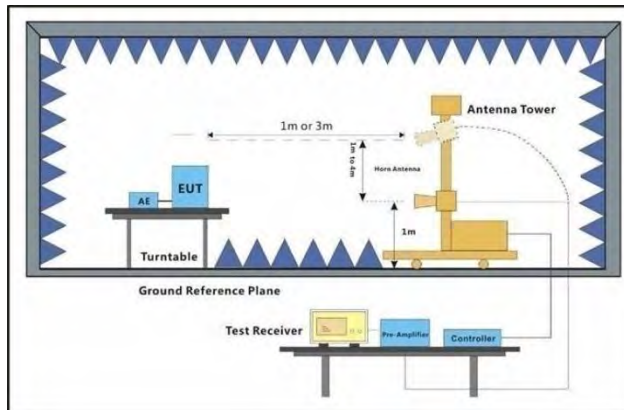




### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

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



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<p>Test Configuration:</p>	<p>i. Repeat above procedures until all frequencies measured was complete.</p> <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>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: <b>Appendix</b></p>	



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## 4.11 Dynamic Frequency Selection

### 4.11.1 DFS Overview

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

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

**Table 2: Applicability of DFS requirements during normal operation**

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





4.11.2 DFS Detection Thresholds

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

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

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

4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

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

**Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.





Table 5a - Pulse Repetition Intervals Values for Test A

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

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

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



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**Table 6 – Long Pulse Radar Test Waveform**

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

**Table 7 – Frequency Hopping Radar Test Waveform**

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

**4.11.4 Response Requirements**

**Table 4: DFS Response Requirement Values**

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

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

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

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

The detailed test data see: **Appendix**



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

**Remark:**

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



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## 6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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
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
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test System					
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-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	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-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	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-CDD	Ant1	5180	20.40	5170.08	5190.48	Reporting only
	Ant2	5180	19.68	5170.12	5189.80	
	Ant1	5220	22.00	5208.40	5230.40	
	Ant2	5220	19.84	5210.16	5230.00	
	Ant1	5240	22.08	5229.36	5251.44	
	Ant2	5240	20.40	5230.12	5250.52	
	Ant1	5260	21.60	5249.68	5271.28	
	Ant2	5260	21.08	5250.08	5271.16	
	Ant1	5300	20.36	5289.64	5310.00	
	Ant2	5300	19.96	5290.08	5310.04	
	Ant1	5320	20.40	5309.60	5330.00	
	Ant2	5320	20.16	5309.96	5330.12	
	Ant1	5500	20.00	5490.04	5510.04	
	Ant2	5500	19.60	5490.16	5509.76	
	Ant1	5580	20.12	5569.92	5590.04	
	Ant2	5580	19.92	5570.12	5590.04	
	Ant1	5700	20.00	5690.04	5710.04	
	Ant2	5700	19.72	5690.16	5709.88	
	Ant1	5720	19.76	5710.16	5729.92	
	Ant2	5720	19.72	5710.12	5729.84	
	Ant1	5720 UNII-2C	14.84	5710.16	5725	
	Ant2	5720 UNII-2C	14.88	5710.12	5725	
	Ant1	5720 UNII-3	4.92	5725	5729.92	
	Ant2	5720 UNII-3	4.84	5725	5729.84	
	Ant1	5745	24.60	5732.88	5757.48	
	Ant2	5745	25.16	5732.76	5757.92	
	Ant1	5785	29.64	5770.72	5800.36	
	Ant2	5785	27.56	5772.28	5799.84	
Ant1	5825	26.68	5811.24	5837.92		
Ant2	5825	23.84	5813.68	5837.52		
11n20MIMO	Ant1	5180	23.04	5168.12	5191.16	
	Ant2	5180	21.72	5168.48	5190.20	
	Ant1	5220	23.48	5208.16	5231.64	
	Ant2	5220	21.52	5208.68	5230.20	
	Ant1	5240	24.60	5227.36	5251.96	
	Ant2	5240	22.36	5228.32	5250.68	
	Ant1	5260	24.68	5247.20	5271.88	
	Ant2	5260	21.56	5248.48	5270.04	
	Ant1	5300	25.60	5287.32	5312.92	
	Ant2	5300	20.92	5289.32	5310.24	
	Ant1	5320	23.64	5308.08	5331.72	
	Ant2	5320	23.44	5308.56	5332.00	
	Ant1	5500	20.44	5489.72	5510.16	
	Ant2	5500	20.16	5489.92	5510.08	
	Ant1	5580	20.28	5569.84	5590.12	
	Ant2	5580	20.08	5570.04	5590.12	
	Ant1	5700	20.28	5689.84	5710.12	
	Ant2	5700	20.04	5689.92	5709.96	
	Ant1	5720	20.36	5709.84	5730.20	
	Ant2	5720	23.40	5708.36	5731.76	
Ant1	5720 UNII-2C	15.16	5709.84	5725		
Ant2	5720 UNII-2C	16.64	5708.36	5725		



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	Ant1	5720 UNII-3	5.2	5725	5730.20	
	Ant2	5720 UNII-3	6.76	5725	5731.76	
	Ant1	5745	27.20	5731.16	5758.36	
	Ant2	5745	25.08	5732.32	5757.40	
	Ant1	5785	27.80	5771.08	5798.88	
	Ant2	5785	24.08	5772.36	5796.44	
	Ant1	5825	26.32	5812.24	5838.56	
	Ant2	5825	24.84	5812.16	5837.00	
11n40MIMO	Ant1	5190	41.12	5169.20	5210.32	
	Ant2	5190	40.08	5169.92	5210.00	
	Ant1	5230	40.72	5209.52	5250.24	
	Ant2	5230	40.16	5210.00	5250.16	
	Ant1	5270	40.32	5249.76	5290.08	
	Ant2	5270	40.24	5249.76	5290.00	
	Ant1	5310	40.56	5289.76	5330.32	
	Ant2	5310	39.92	5290.08	5330.00	
	Ant1	5510	40.72	5489.68	5530.40	
	Ant2	5510	39.92	5490.00	5529.92	
	Ant1	5550	40.80	5529.68	5570.48	
	Ant2	5550	40.40	5529.76	5570.16	
	Ant1	5670	40.80	5649.44	5690.24	
	Ant2	5670	40.24	5649.84	5690.08	
	Ant1	5710	40.56	5689.76	5730.32	
	Ant2	5710	40.24	5689.76	5730.00	
	Ant1	5710 UNII-2C	35.24	5689.76	5725	
	Ant2	5710 UNII-2C	35.24	5689.76	5725	
	Ant1	5710 UNII-3	5.32	5725	5730.32	
	Ant2	5710 UNII-3	5	5725	5730.00	
	Ant1	5755	49.36	5725.88	5775.24	
	Ant2	5755	45.60	5734.04	5779.64	
	Ant1	5795	41.36	5774.28	5815.64	
	Ant2	5795	41.60	5774.04	5815.64	
	11ac20MIMO	Ant1	5180	20.24	5169.88	5190.12
		Ant2	5180	20.48	5170.00	5190.48
		Ant1	5220	21.04	5209.84	5230.88
		Ant2	5220	21.44	5208.56	5230.00
Ant1		5240	24.44	5227.84	5252.28	
Ant2		5240	20.92	5229.24	5250.16	
Ant1		5260	21.20	5249.16	5270.36	
Ant2		5260	20.40	5249.88	5270.28	
Ant1		5300	21.08	5289.72	5310.80	
Ant2		5300	20.28	5289.88	5310.16	
Ant1		5320	23.04	5308.20	5331.24	
Ant2		5320	20.48	5309.64	5330.12	
Ant1		5500	20.28	5489.80	5510.08	
Ant2		5500	20.16	5490.00	5510.16	
Ant1		5580	20.36	5569.84	5590.20	
Ant2		5580	20.16	5569.92	5590.08	
Ant1		5700	20.28	5689.80	5710.08	
Ant2		5700	20.08	5689.92	5710.00	
Ant1		5720	20.36	5709.80	5730.16	
Ant2		5720	20.12	5709.92	5730.04	
Ant1		5720 UNII-2C	15.2	5709.80	5725	
Ant2		5720 UNII-2C	15.08	5709.92	5725	
Ant1		5720 UNII-3	5.16	5725	5730.16	
Ant2		5720 UNII-3	5.04	5725	5730.04	
Ant1		5745	27.72	5730.52	5758.24	



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	Ant2	5745	24.08	5733.44	5757.52
	Ant1	5785	27.44	5771.44	5798.88
	Ant2	5785	21.76	5773.88	5795.64
	Ant1	5825	24.88	5812.44	5837.32
	Ant2	5825	23.32	5812.84	5836.16
11ac40MIMO	Ant1	5190	40.56	5169.76	5210.32
	Ant2	5190	40.00	5170.00	5210.00
	Ant1	5230	40.80	5209.52	5250.32
	Ant2	5230	40.48	5209.84	5250.32
	Ant1	5270	40.72	5249.76	5290.48
	Ant2	5270	40.16	5249.92	5290.08
	Ant1	5310	40.64	5289.60	5330.24
	Ant2	5310	40.40	5289.84	5330.24
	Ant1	5510	40.64	5489.76	5530.40
	Ant2	5510	40.08	5489.76	5529.84
	Ant1	5550	40.56	5529.68	5570.24
	Ant2	5550	39.84	5530.08	5569.92
	Ant1	5670	40.56	5649.76	5690.32
	Ant2	5670	40.08	5649.84	5689.92
	Ant1	5710	40.16	5689.92	5730.08
	Ant2	5710	40.72	5689.68	5730.40
	Ant1	5710 UNII-2C	35.08	5689.92	5725
	Ant2	5710 UNII-2C	35.32	5689.68	5725
	Ant1	5710 UNII-3	5.08	5725	5730.08
	Ant2	5710 UNII-3	5.4	5725	5730.40
	Ant1	5755	46.24	5732.84	5779.08
	Ant2	5755	40.72	5734.68	5775.40
	Ant1	5795	49.76	5772.36	5822.12
	Ant2	5795	41.92	5773.72	5815.64
11ac80MIMO	Ant1	5210	80.80	5169.68	5250.48
	Ant2	5210	80.64	5169.68	5250.32
	Ant1	5290	80.96	5249.52	5330.48
	Ant2	5290	80.64	5249.84	5330.48
	Ant1	5530	80.96	5489.52	5570.48
	Ant2	5530	80.64	5489.68	5570.32
	Ant1	5610	80.64	5569.68	5650.32
	Ant2	5610	80.64	5569.68	5650.32
	Ant1	5690	80.64	5649.68	5730.32
	Ant2	5690	80.80	5649.52	5730.32
	Ant1	5690 UNII-2C	75.32	5649.68	5725
	Ant2	5690 UNII-2C	75.48	5649.52	5725
	Ant1	5690 UNII-3	5.32	5725	5730.32
	Ant2	5690 UNII-3	5.32	5725	5730.32
Ant1	5775	88.32	5734.52	5822.84	
Ant2	5775	80.80	5734.68	5815.48	
11ax20MIMO	Ant1	5180	19.96	5170.00	5189.96
	Ant2	5180	20.00	5169.96	5189.96
	Ant1	5220	20.00	5210.00	5230.00
	Ant2	5220	21.28	5208.72	5230.00
	Ant1	5240	25.32	5224.68	5250.00
	Ant2	5240	20.00	5229.96	5249.96
	Ant1	5260	20.76	5250.00	5270.76
	Ant2	5260	21.72	5249.96	5271.68
	Ant1	5300	20.08	5289.96	5310.04
	Ant2	5300	19.96	5290.00	5309.96
	Ant1	5320	23.20	5308.32	5331.52
	Ant2	5320	20.08	5309.96	5330.04



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	Ant1	5500	20.00	5490.00	5510.00
	Ant2	5500	20.04	5489.96	5510.00
	Ant1	5580	19.96	5570.04	5590.00
	Ant2	5580	19.96	5570.00	5589.96
	Ant1	5700	19.96	5690.00	5709.96
	Ant2	5700	20.00	5690.00	5710.00
	Ant1	5720	20.00	5710.00	5730.00
	Ant2	5720	20.08	5709.96	5730.04
	Ant1	5720 UNII-2C	15	5710.00	5725
	Ant2	5720 UNII-2C	15.04	5709.96	5725
	Ant1	5720 UNII-3	5	5725	5730.00
	Ant2	5720 UNII-3	5.04	5725	5730.04
	Ant1	5745	27.08	5731.60	5758.68
	Ant2	5745	28.40	5730.56	5758.96
	Ant1	5785	26.04	5771.80	5797.84
	Ant2	5785	25.68	5773.80	5799.48
	Ant1	5825	23.60	5813.24	5836.84
	Ant2	5825	26.08	5810.12	5836.20
11ax40MIMO	Ant1	5190	39.68	5170.16	5209.84
	Ant2	5190	39.76	5170.08	5209.84
	Ant1	5230	39.60	5210.24	5249.84
	Ant2	5230	39.60	5210.16	5249.76
	Ant1	5270	39.60	5250.16	5289.76
	Ant2	5270	39.84	5250.08	5289.92
	Ant1	5310	39.76	5290.16	5329.92
	Ant2	5310	39.76	5290.16	5329.92
	Ant1	5510	39.76	5490.16	5529.92
	Ant2	5510	39.84	5490.08	5529.92
	Ant1	5550	39.60	5530.16	5569.76
	Ant2	5550	39.68	5530.16	5569.84
	Ant1	5670	39.76	5650.08	5689.84
	Ant2	5670	39.76	5650.08	5689.84
	Ant1	5710	39.76	5690.08	5729.84
	Ant2	5710	39.84	5690.08	5729.92
	Ant1	5710 UNII-2C	34.92	5690.08	5725
	Ant2	5710 UNII-2C	34.92	5690.08	5725
	Ant1	5710 UNII-3	4.84	5725	5729.84
	Ant2	5710 UNII-3	4.92	5725	5729.92
Ant1	5755	39.92	5735.08	5775.00	
Ant2	5755	39.68	5735.16	5774.84	
Ant1	5795	43.92	5771.64	5815.56	
Ant2	5795	39.76	5775.08	5814.84	
11ax80MIMO	Ant1	5210	81.12	5169.52	5250.64
	Ant2	5210	80.96	5169.52	5250.48
	Ant1	5290	80.96	5249.52	5330.48
	Ant2	5290	80.96	5249.52	5330.48
	Ant1	5530	81.12	5489.52	5570.64
	Ant2	5530	80.96	5489.52	5570.48
	Ant1	5610	81.12	5569.52	5650.64
	Ant2	5610	80.96	5569.52	5650.48
	Ant1	5690	80.96	5649.52	5730.48
	Ant2	5690	80.96	5649.52	5730.48
	Ant1	5690 UNII-2C	75.48	5649.52	5725
	Ant2	5690 UNII-2C	75.48	5649.52	5725
	Ant1	5690 UNII-3	5.48	5725	5730.48
	Ant2	5690 UNII-3	5.48	5725	5730.48
Ant1	5775	81.12	5734.52	5815.64	



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	Ant2	5775	81.12	5734.52	5815.64	
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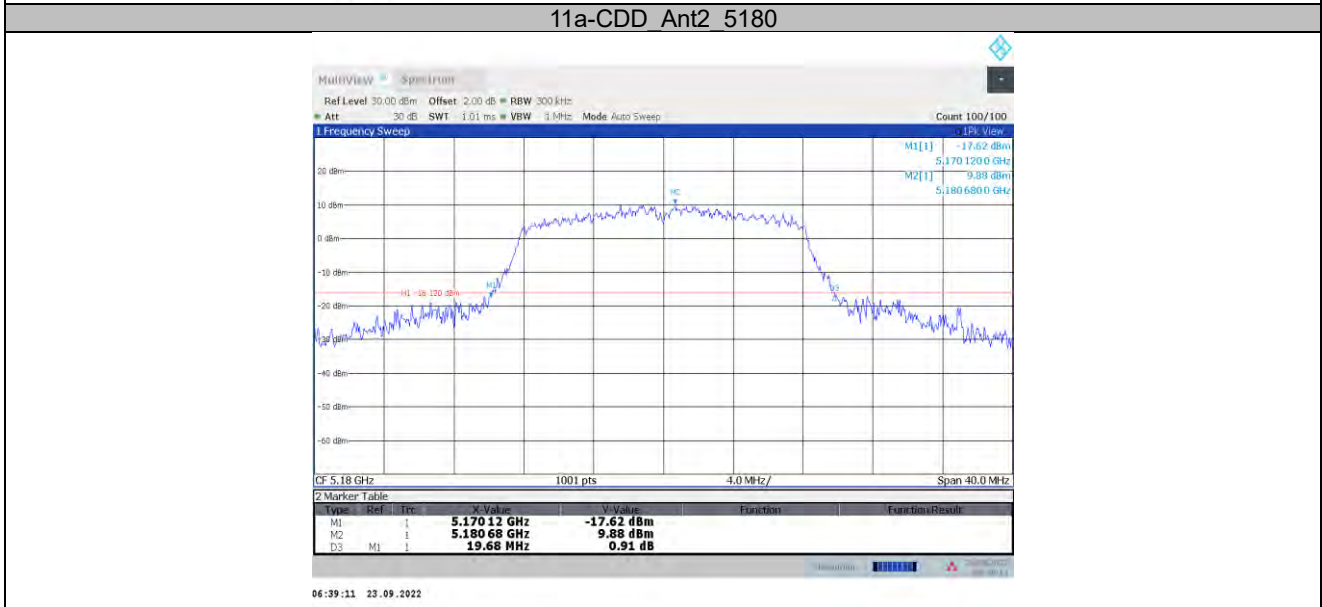
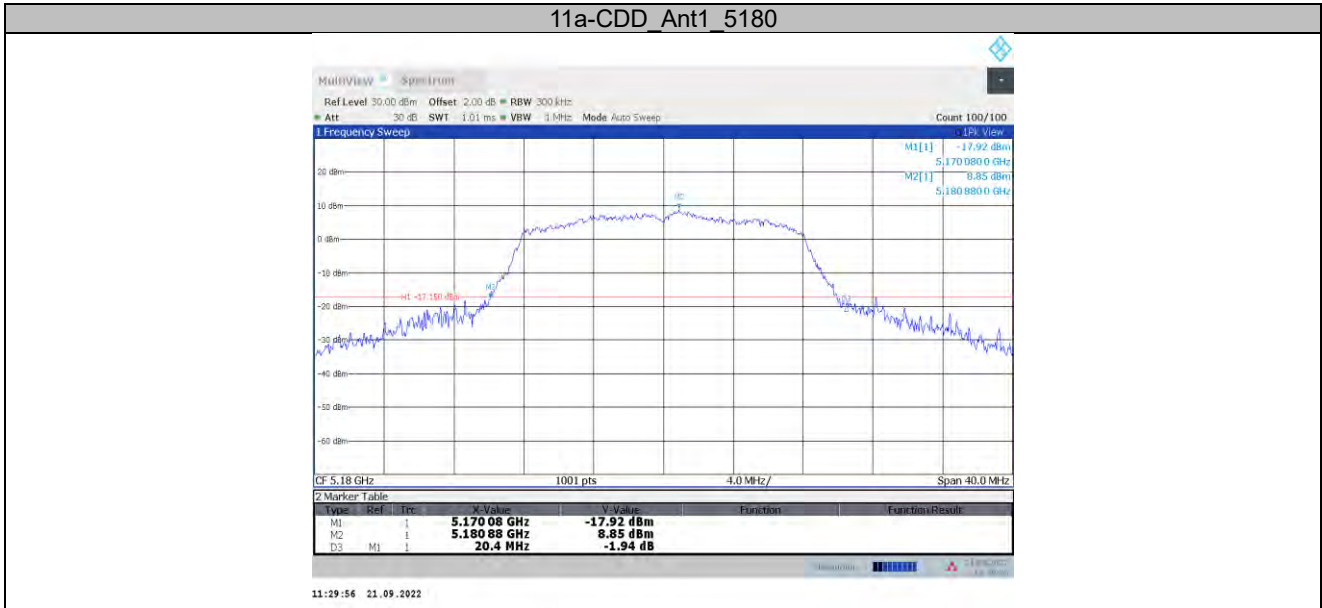
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Test Graphs



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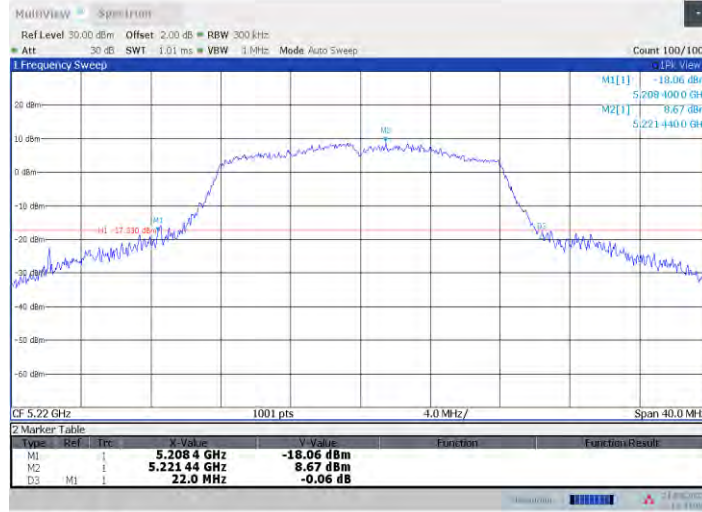
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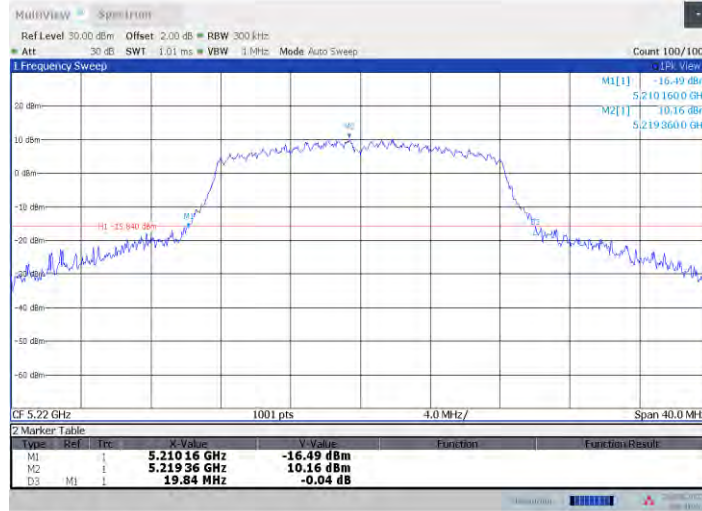
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11a-CDD Ant1 5220



11:31:05 21.09.2022

11a-CDD Ant2 5220

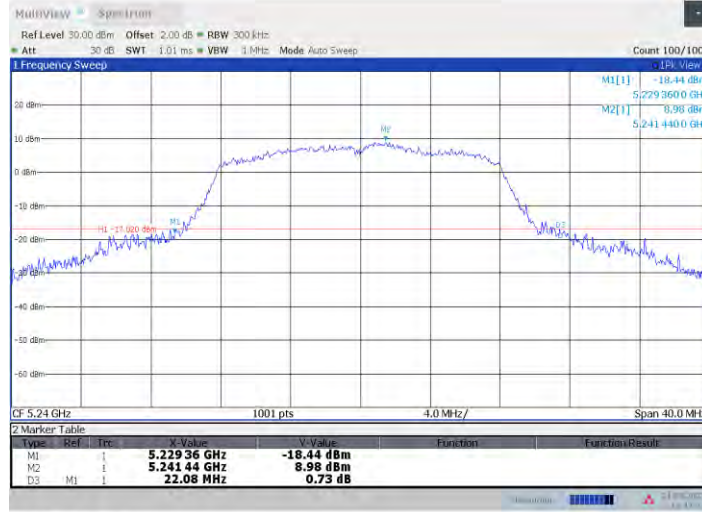


06:40:53 23.09.2022



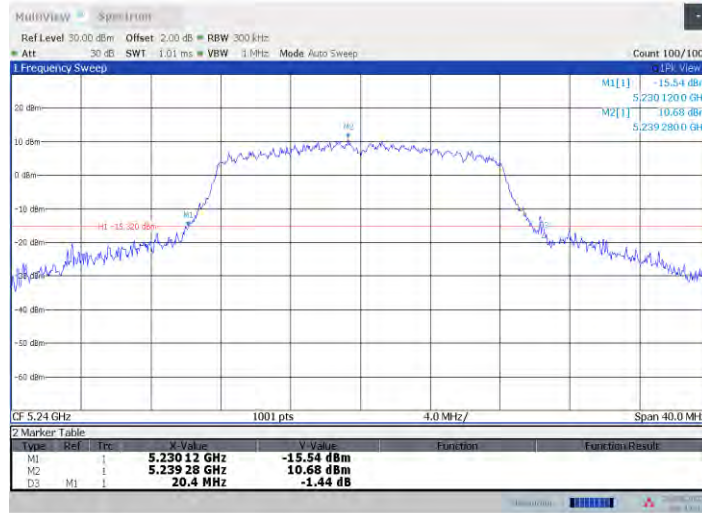
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11a-CDD Ant1 5240



11:47:21 21.09.2022

11a-CDD Ant2 5240



06:42:43 23.09.2022



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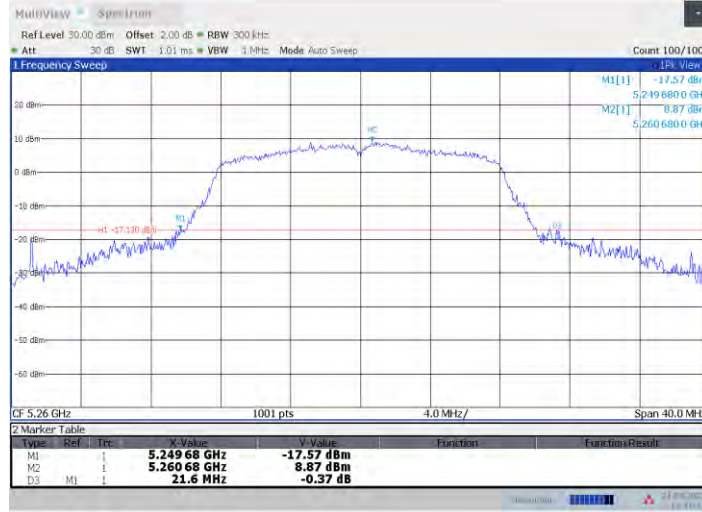
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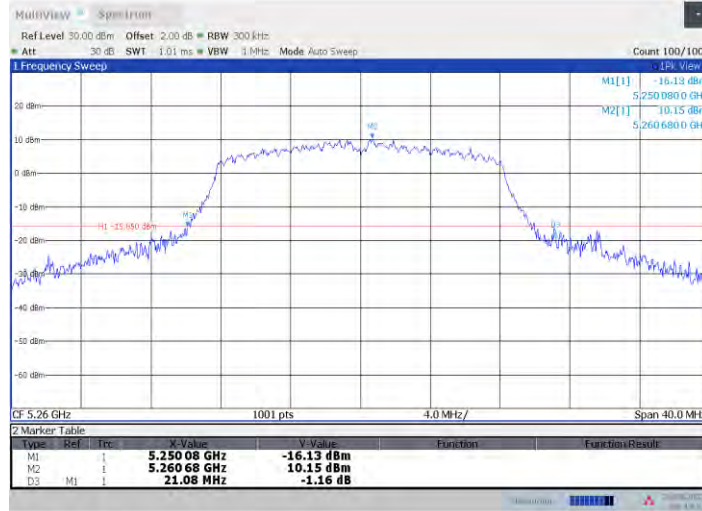


### 11a-CDD Ant1 5260



11:51:42 21.09.2022

### 11a-CDD Ant2 5260



06:43:51 23.09.2022



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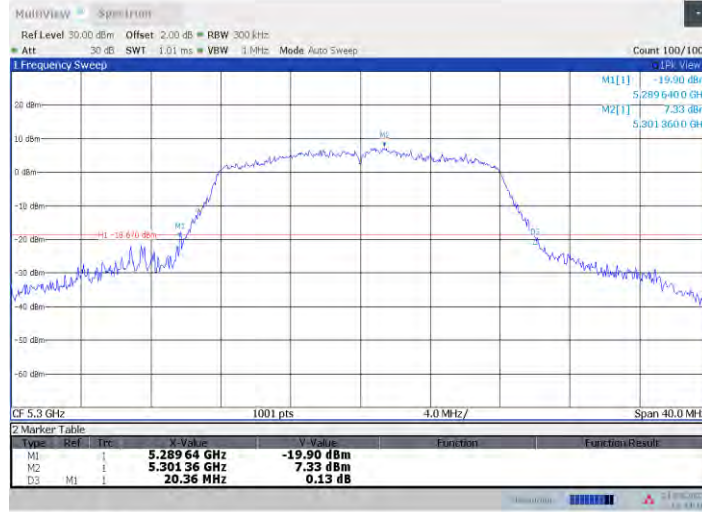
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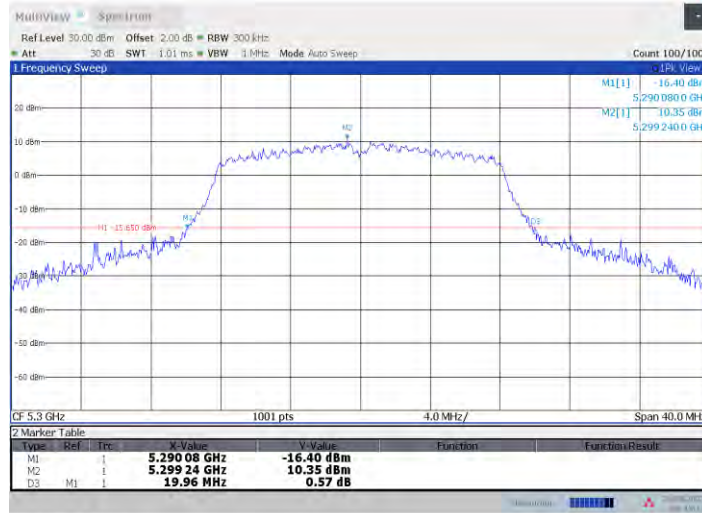


11a-CDD Ant1 5300



11:54:11 21.09.2022

11a-CDD Ant2 5300



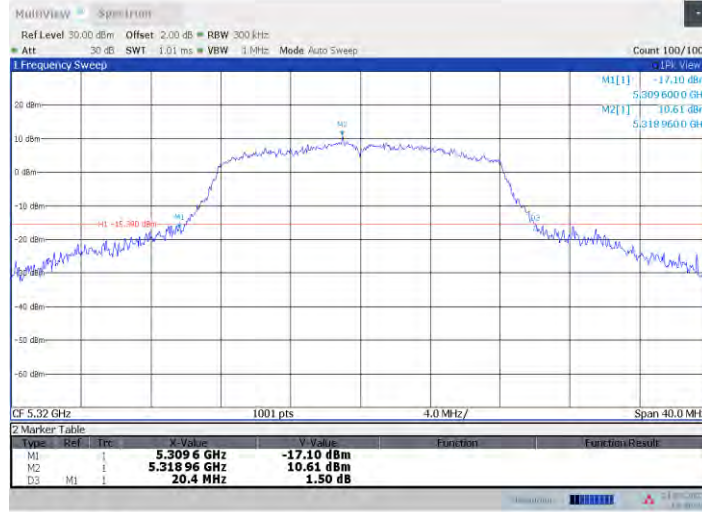
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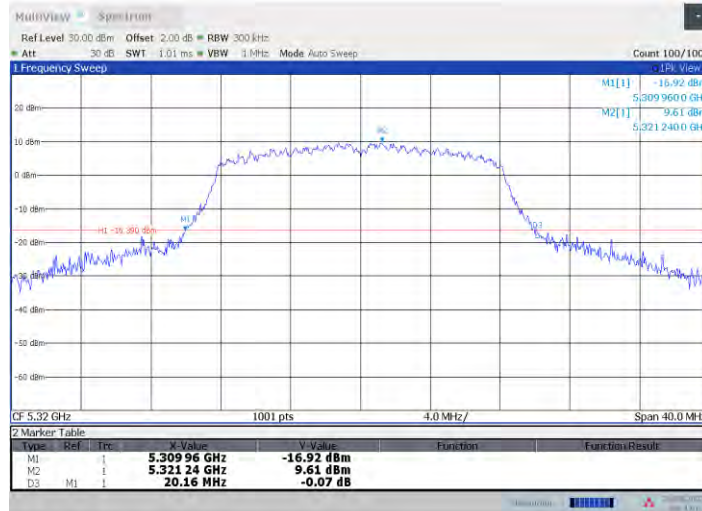
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12:00:36 21.09.2022

### 11a-CDD Ant2 5320



06:47:02 23.09.2022



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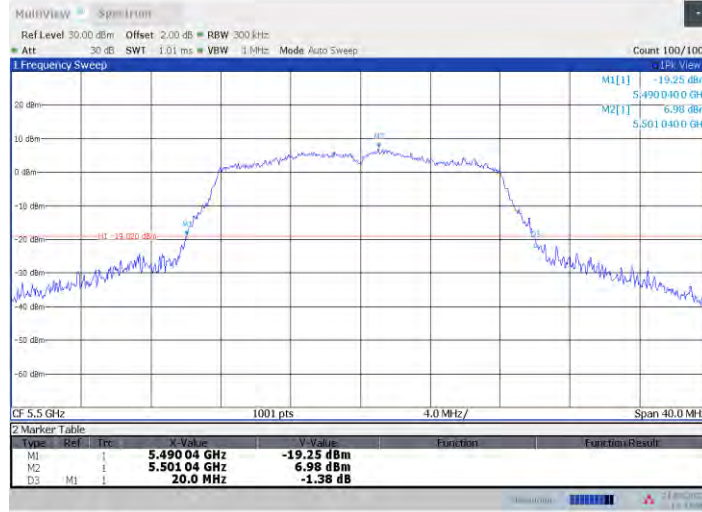
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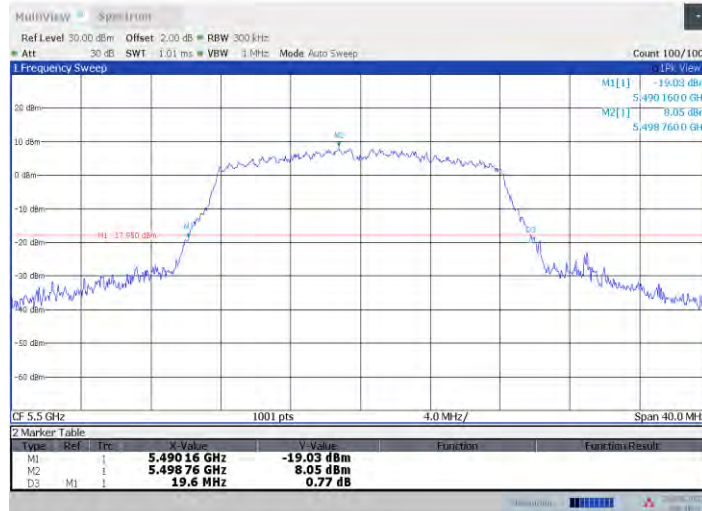
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12:13:59 21.09.2022

11a-CDD Ant2 5500



06:48:32 23.09.2022



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12:15:19 21.09.2022

11a-CDD Ant2 5580



06:53:13 23.09.2022



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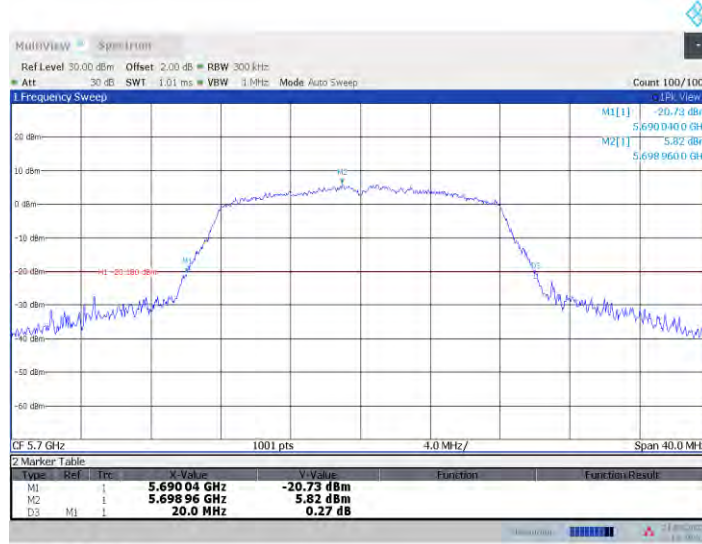
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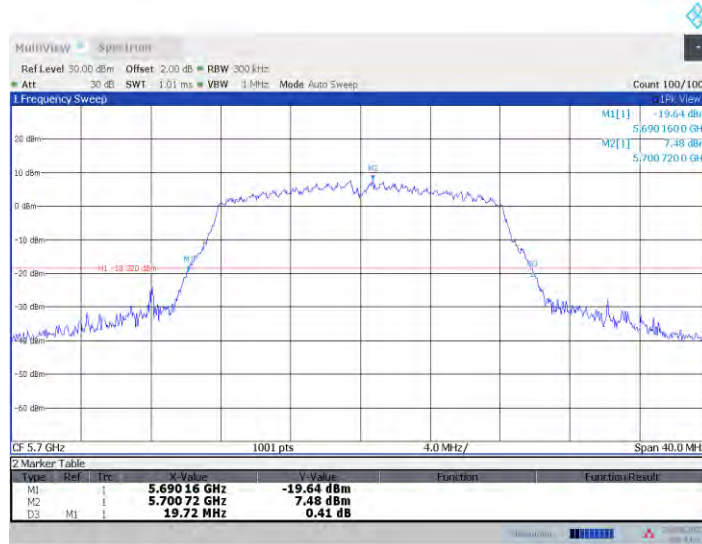


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12:19:52 21.09.2022

### 11a-CDD Ant2 5700



06:54:28 23.09.2022



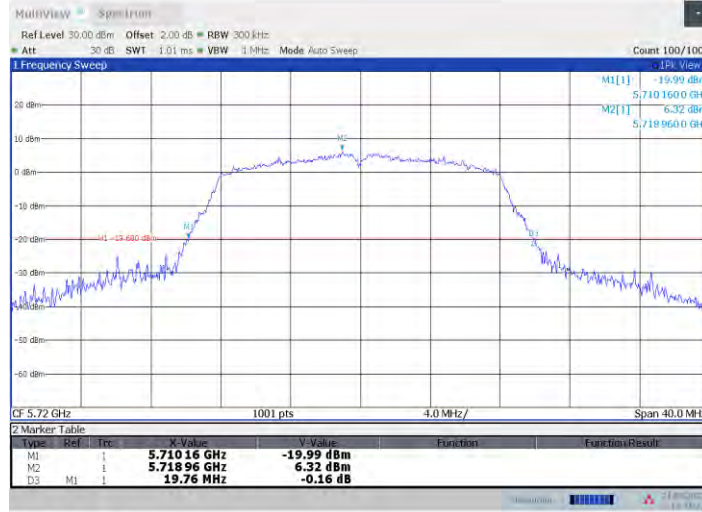
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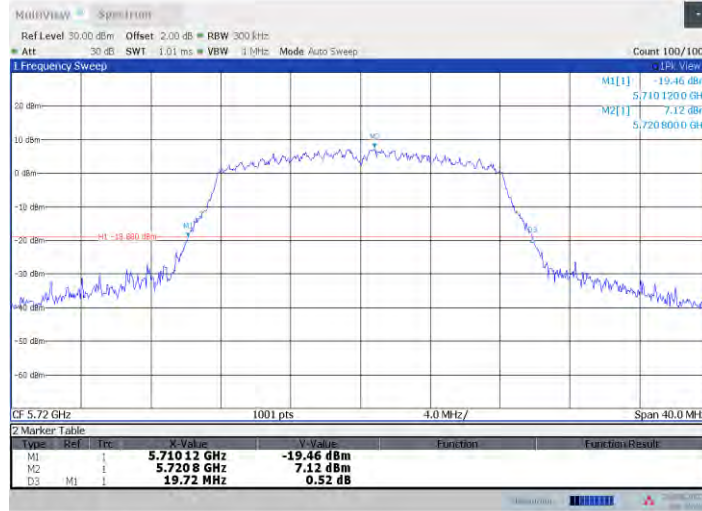
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11a-CDD Ant1 5720



12:21:22 21.09.2022

11a-CDD Ant2 5720



06:55:56 23.09.2022

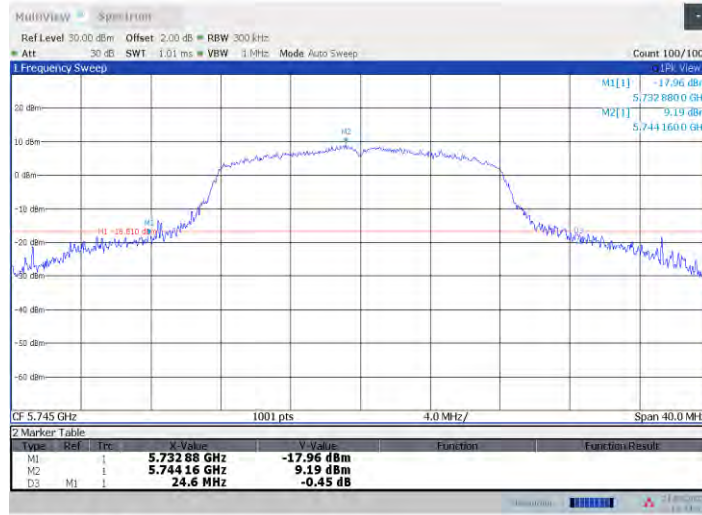


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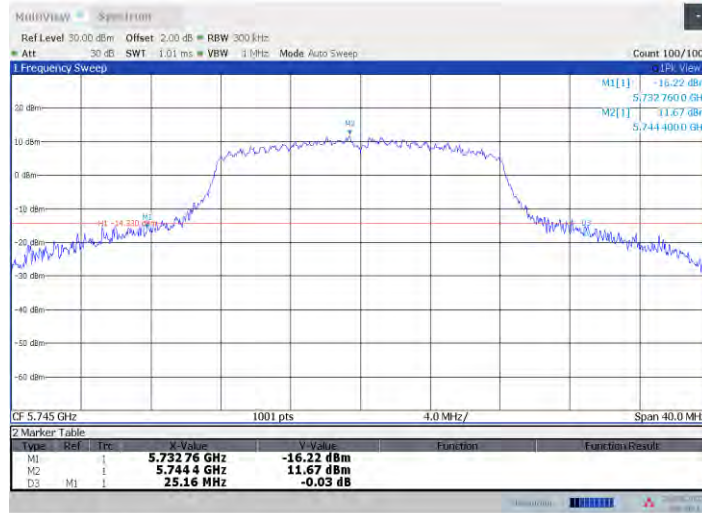
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12:24:32 21.09.2022

### 11a-CDD Ant2 5745



06:58:11 23.09.2022



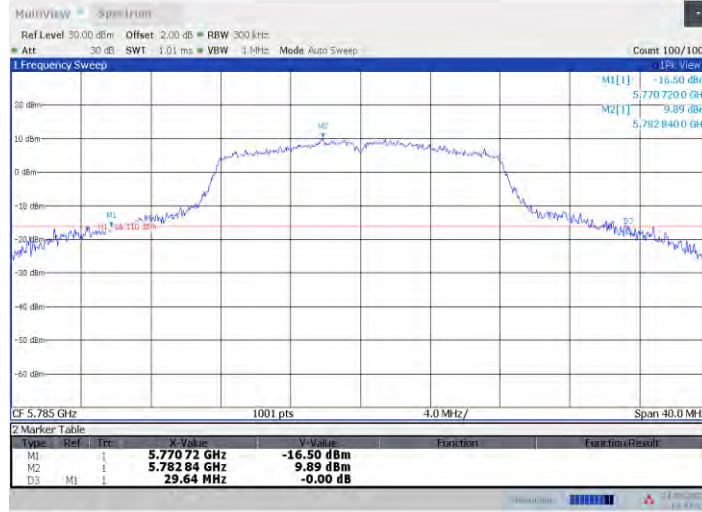
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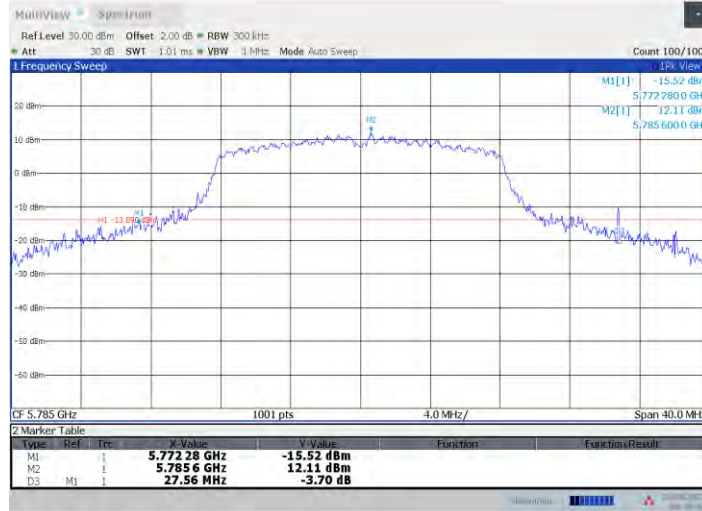


11a-CDD Ant1 5785



12:27:52 21.09.2022

11a-CDD Ant2 5785



06:59:27 23.09.2022



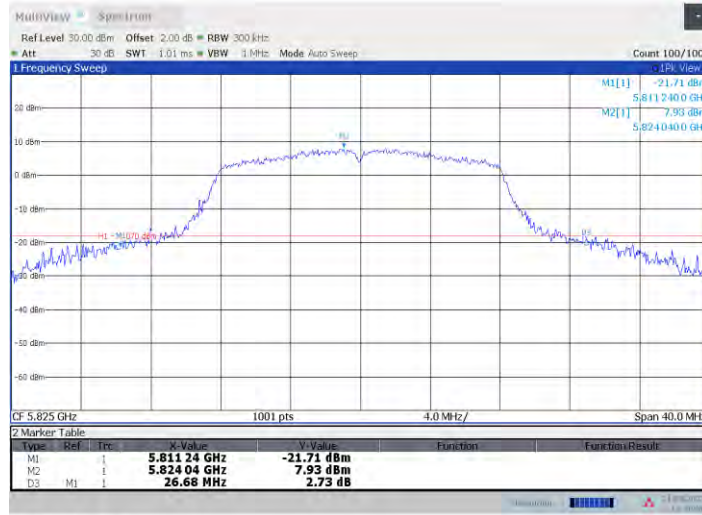
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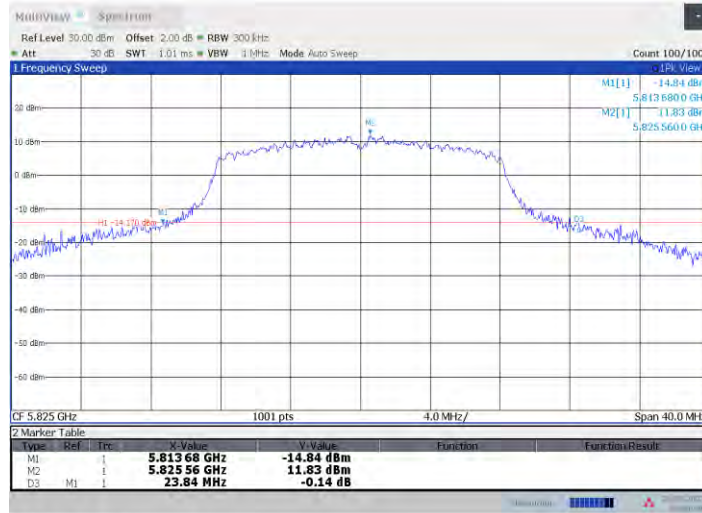


### 11a-CDD Ant1 5825



12:30:56 21.09.2022

### 11a-CDD Ant2 5825



07:00:40 23.09.2022



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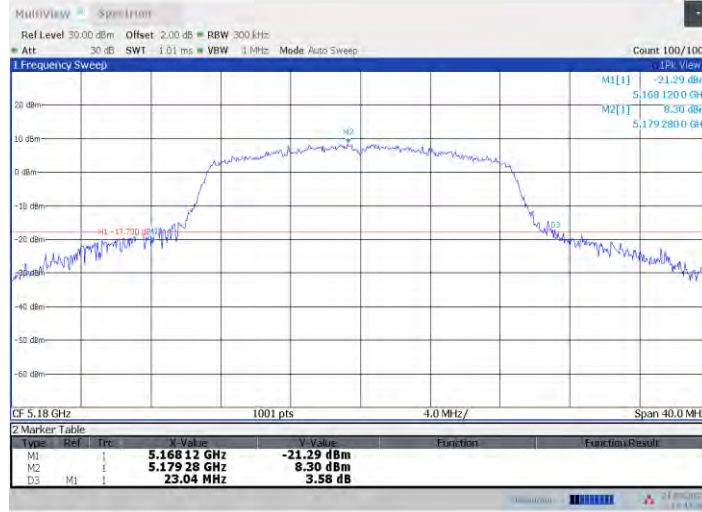
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11n20MIMO Ant1 5180



12:42:26 21.09.2022

11n20MIMO Ant2 5180



07:03:02 23.09.2022

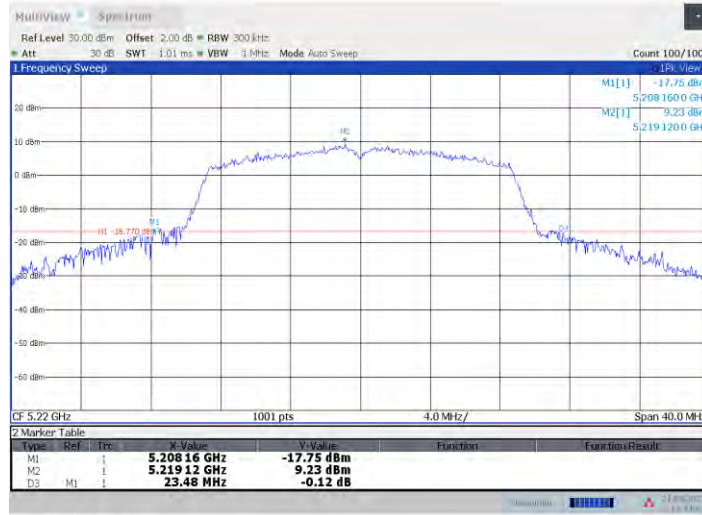


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### 11n20MIMO Ant1 5220



12:34:02 21.09.2022

### 11n20MIMO Ant2 5220



07:05:04 23.09.2022

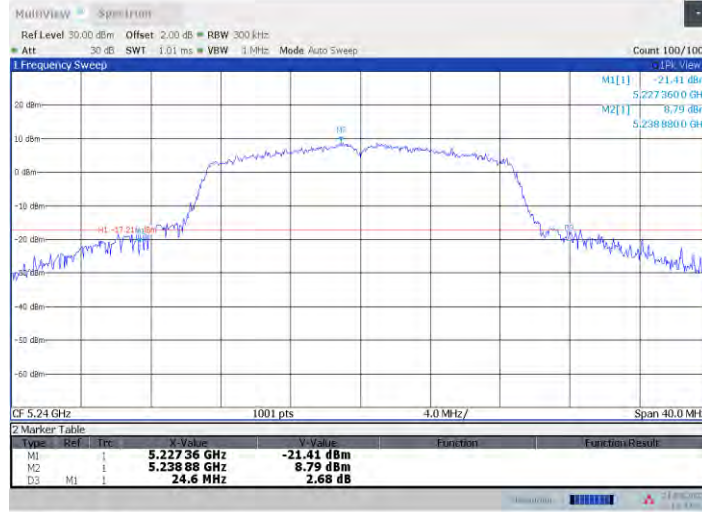


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12:37:32 21.09.2022

### 11n20MIMO Ant2 5240



07:06:40 23.09.2022



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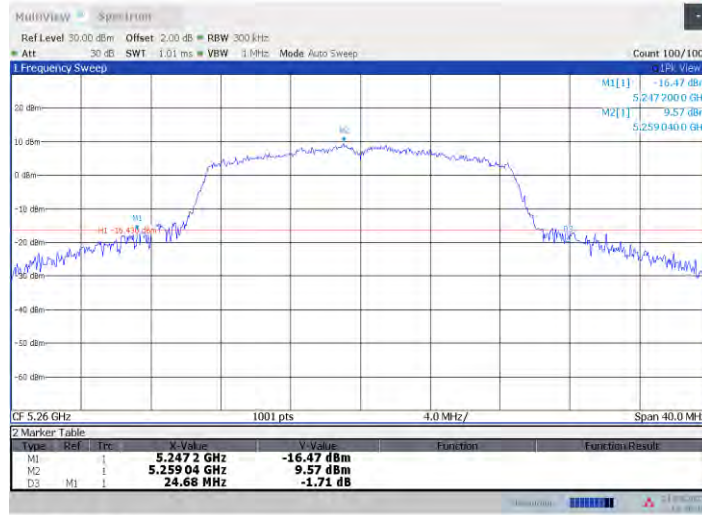
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11n20MIMO Ant1 5260



12:38:45 21.09.2022

11n20MIMO Ant2 5260

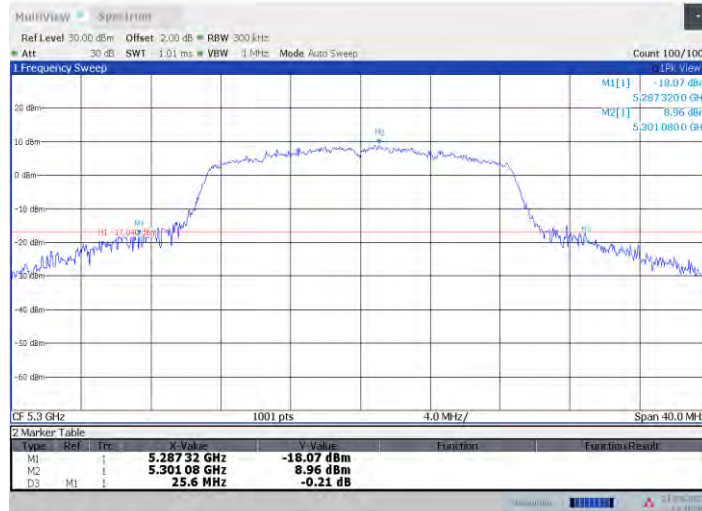


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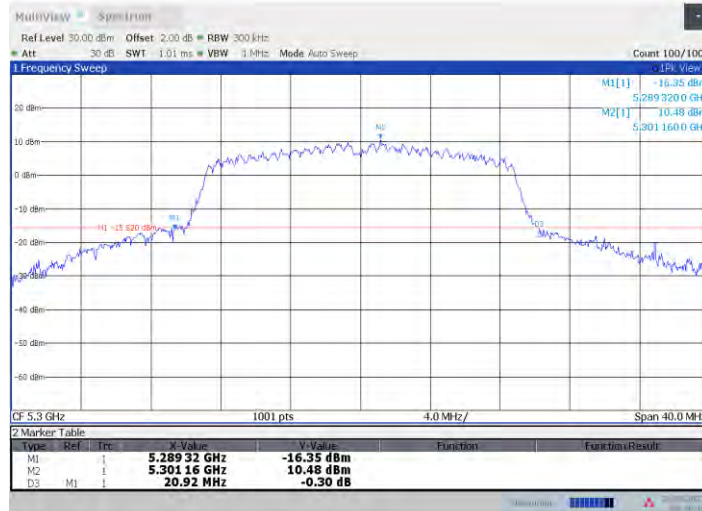
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12:40:46 21.09.2022

11n20MIMO Ant2 5300



07:18:46 23.09.2022



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12:42:59 21.09.2022

11n20MIMO Ant2 5320



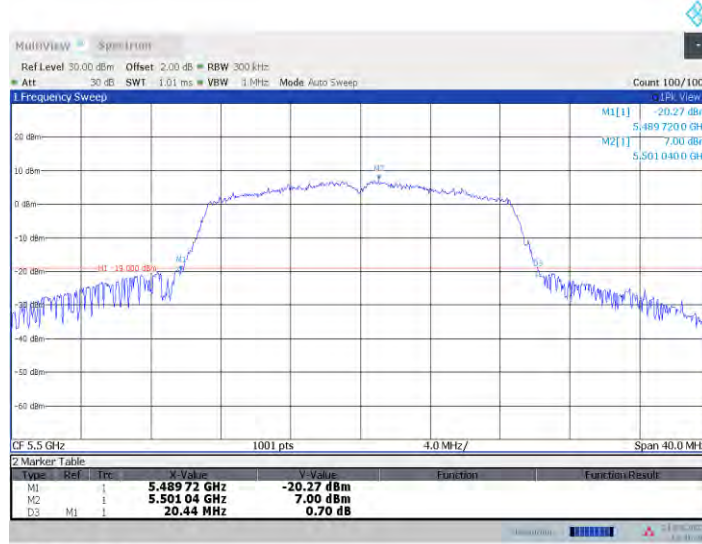
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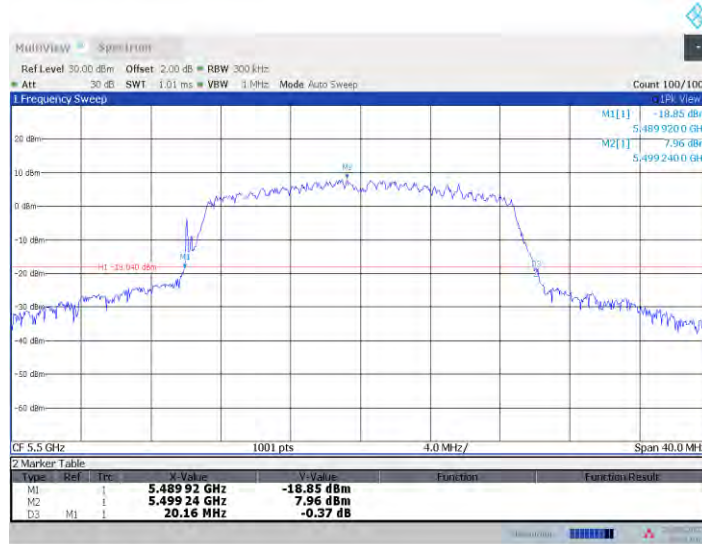


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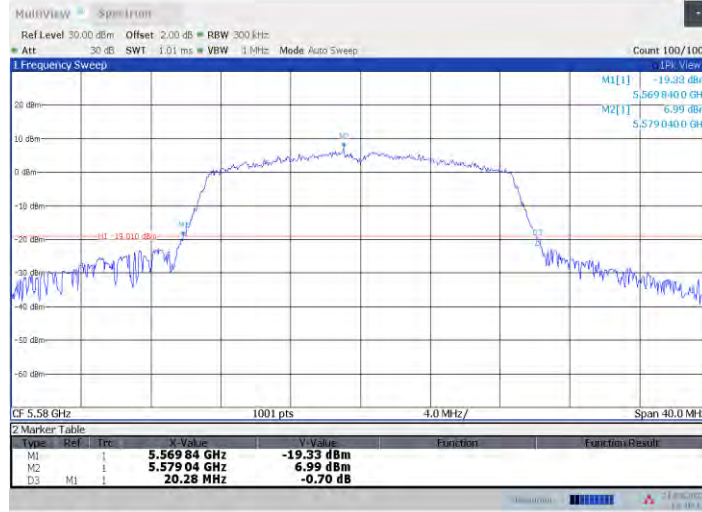
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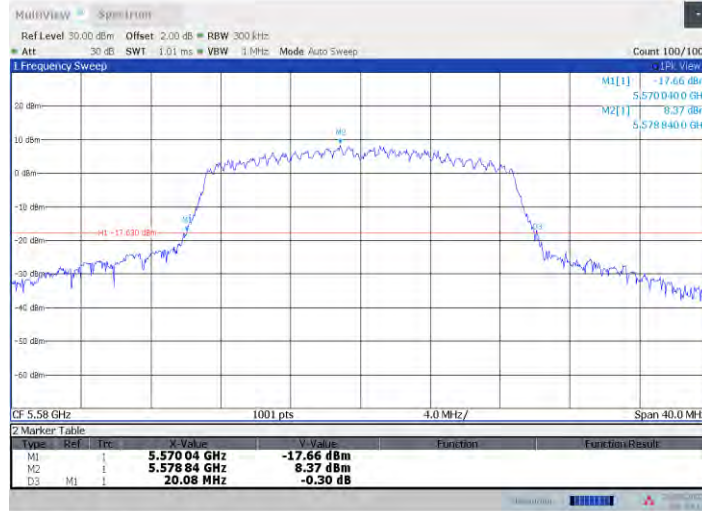


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11n20MIMO Ant2 5580



07:23:12 23.09.2022



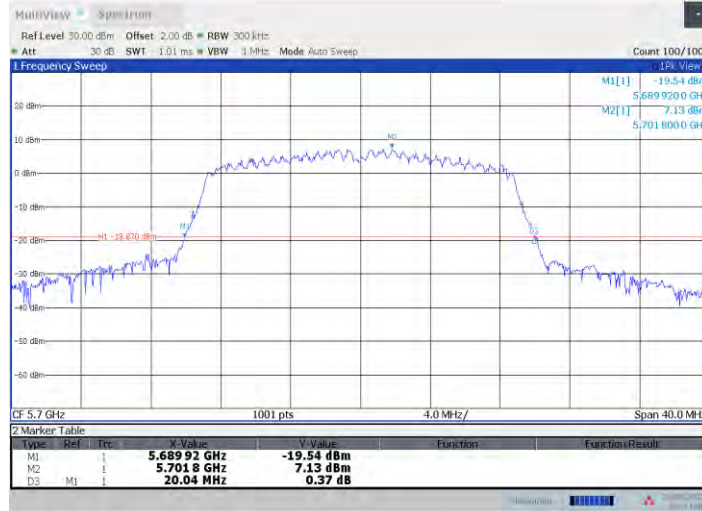
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11n20MIMO Ant1 5700



12:49:33 21.09.2022

11n20MIMO Ant2 5700



07:24:39 23.09.2022

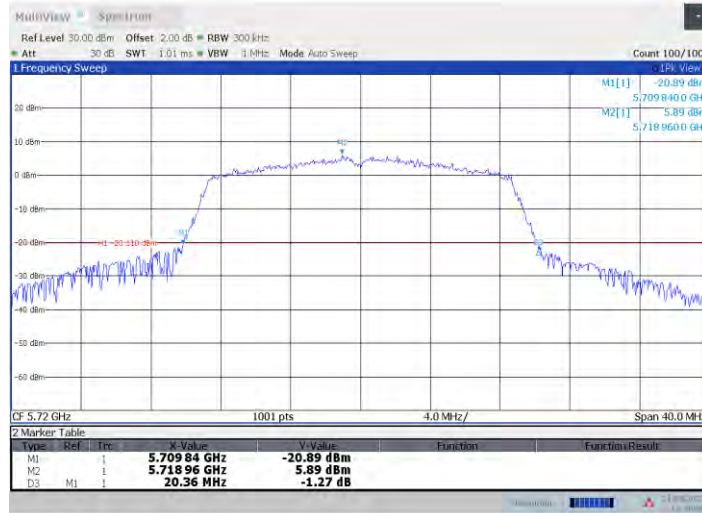


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11n20MIMO Ant1 5720



12:50:51 21.09.2022

11n20MIMO Ant2 5720



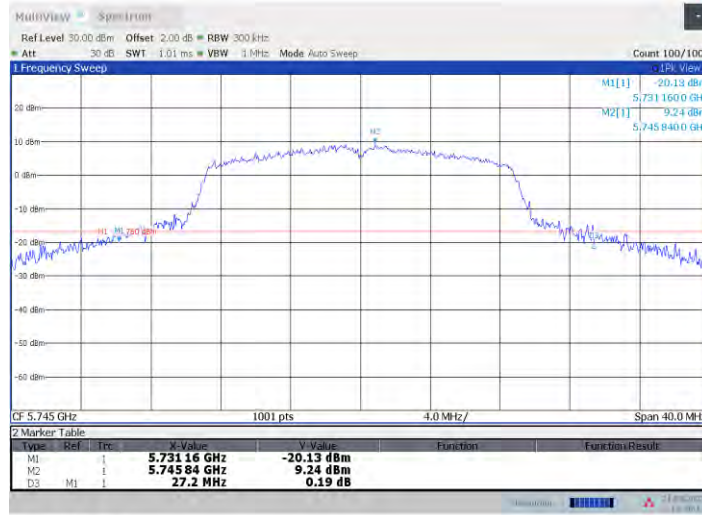
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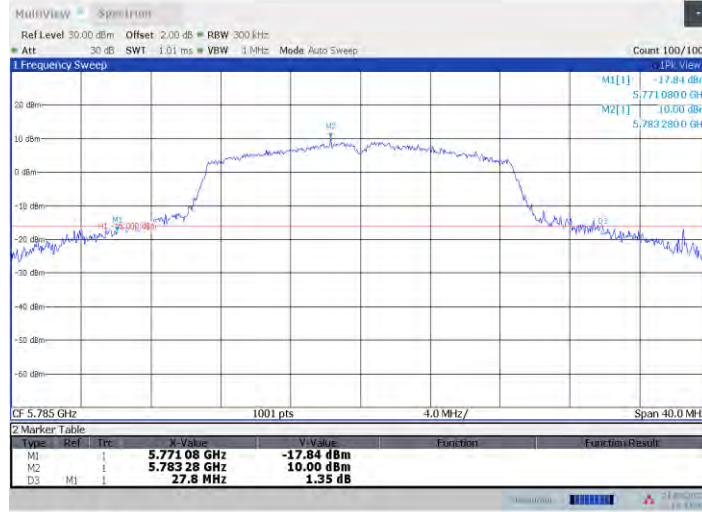
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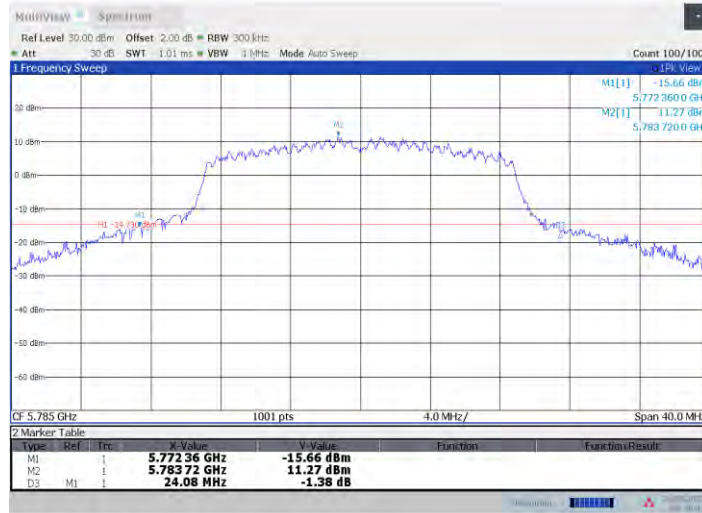


### 11n20MIMO Ant1 5785



12:57:39 21.09.2022

### 11n20MIMO Ant2 5785



07:29:43 23.09.2022

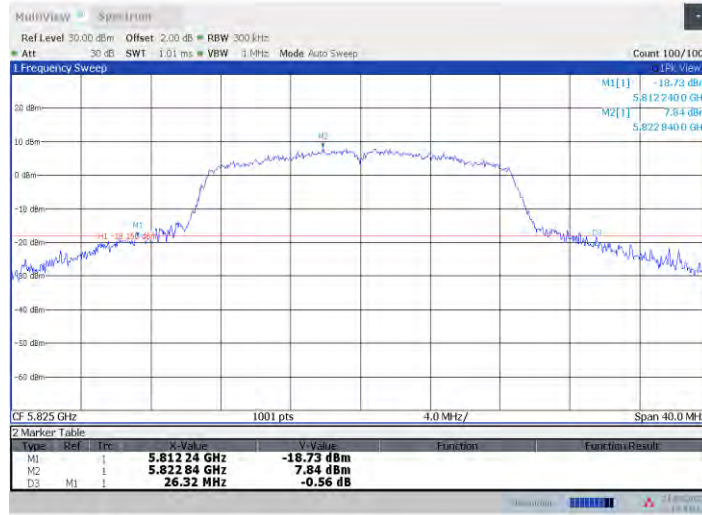


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### 11n20MIMO Ant1 5825



13:01:13 23.09.2022

### 11n20MIMO Ant2 5825



07:30:55 23.09.2022



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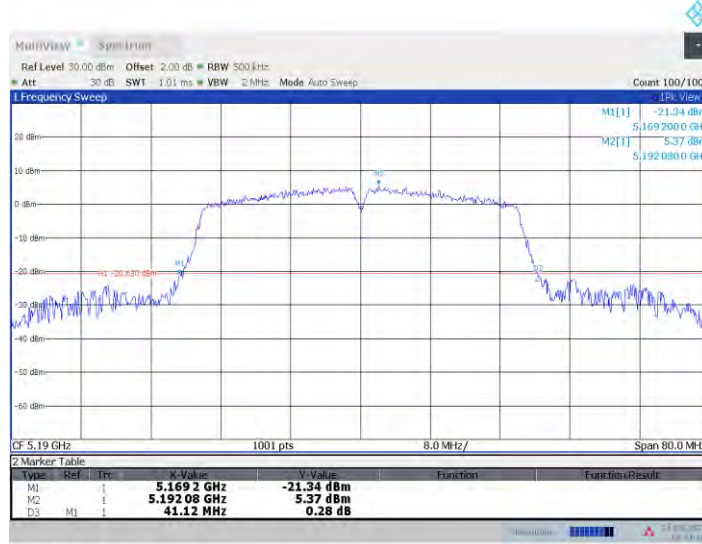
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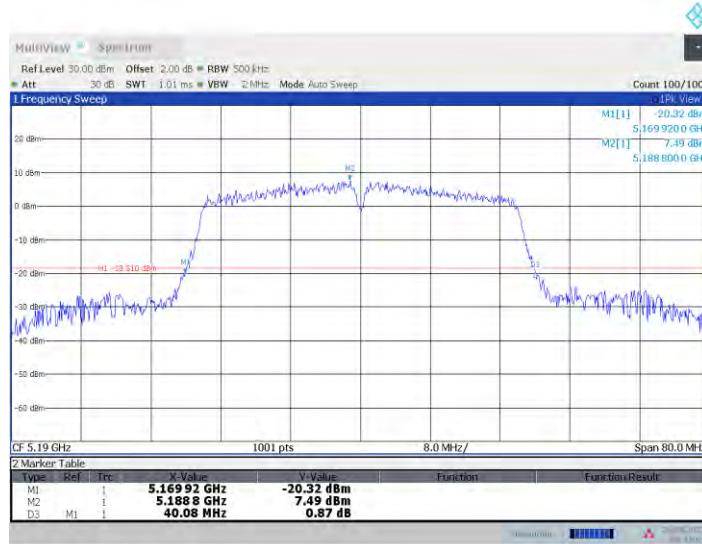
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11n40MIMO Ant1 5190



13:14:16 21.09.2022

11n40MIMO Ant2 5190



07:35:02 23.09.2022



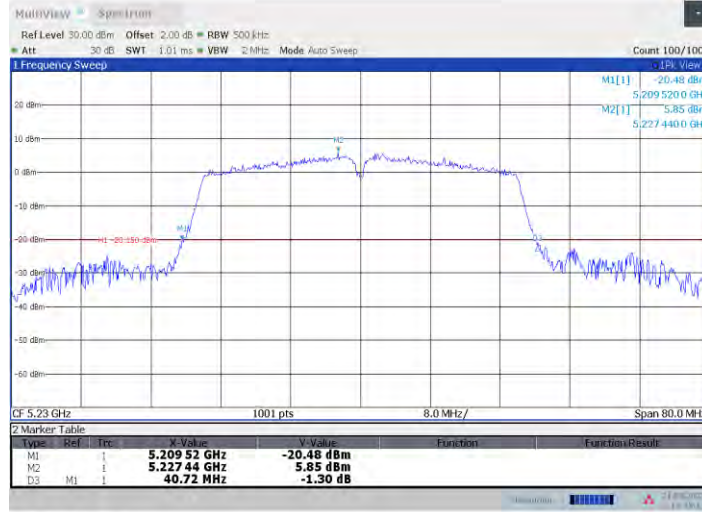
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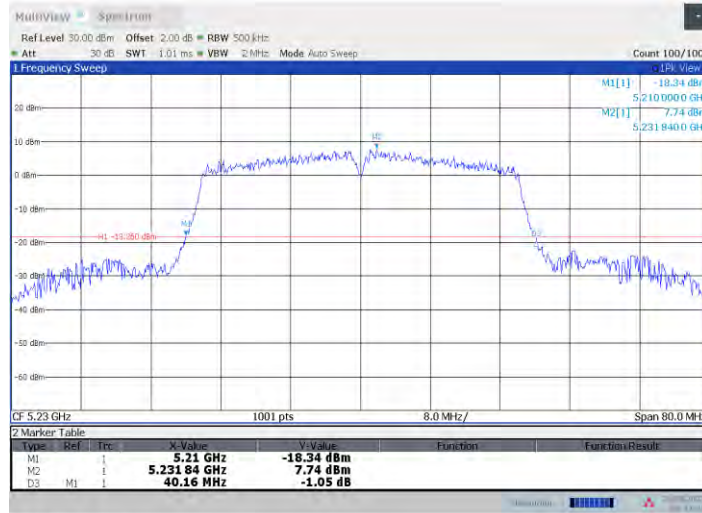


11n40MIMO Ant1 5230



13:25:13 21.09.2022

11n40MIMO Ant2 5230



07:37:35 23.09.2022



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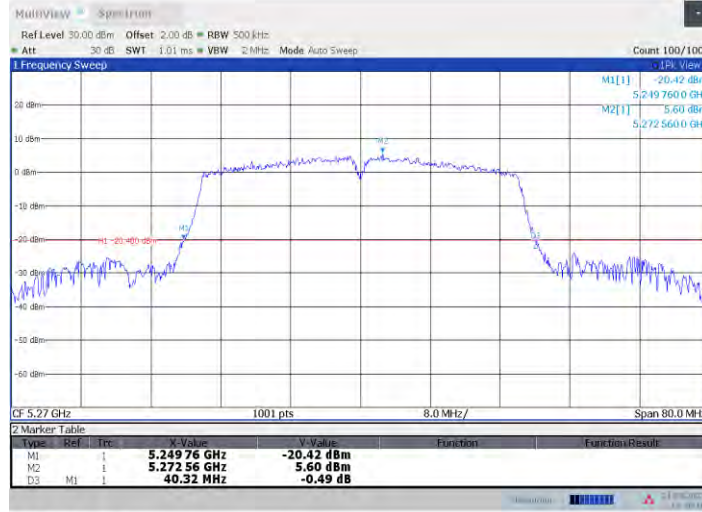
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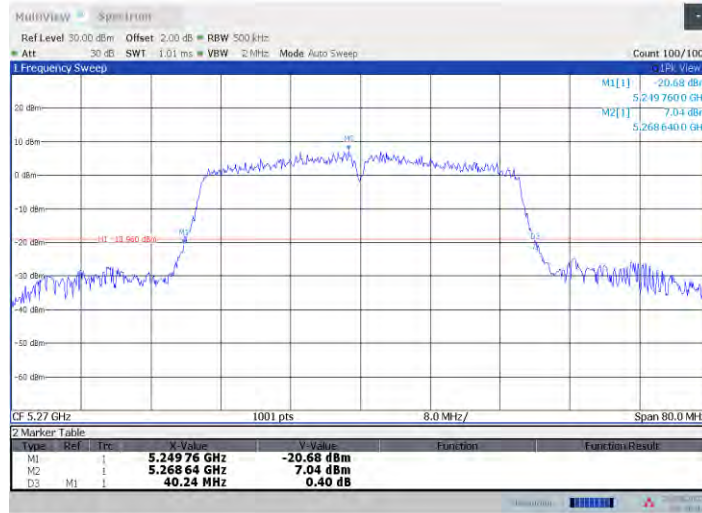


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11n40MIMO Ant2 5270



07:38:44 23.09.2022



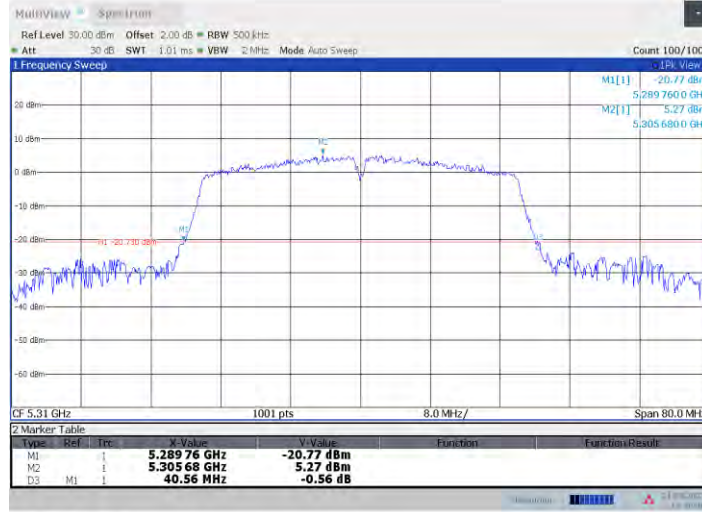
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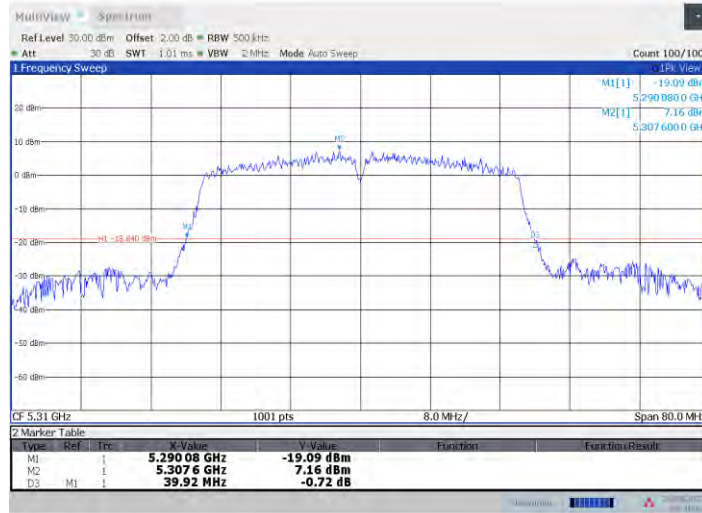
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11n40MIMO Ant1 5310



13:30:41 21.09.2022

11n40MIMO Ant2 5310



07:46:04 23.09.2022



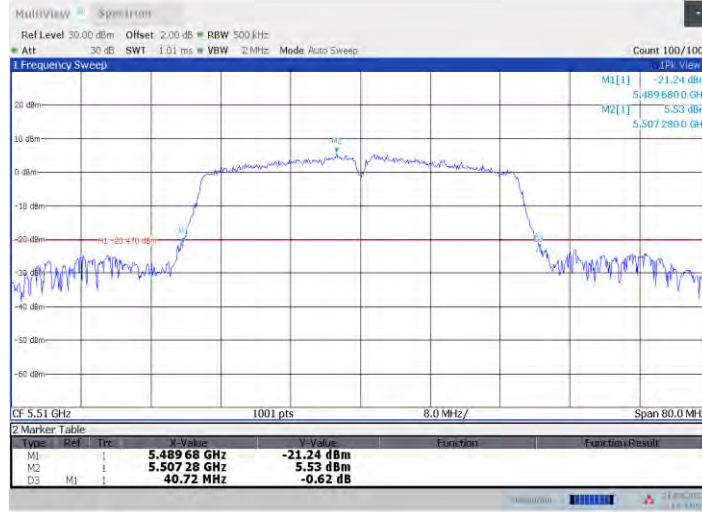
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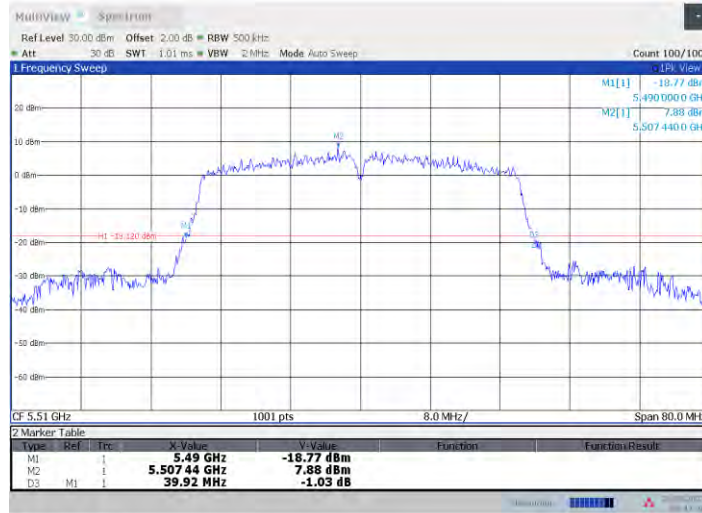
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11n40MIMO Ant1 5510



13:32:03 21.09.2022

11n40MIMO Ant2 5510



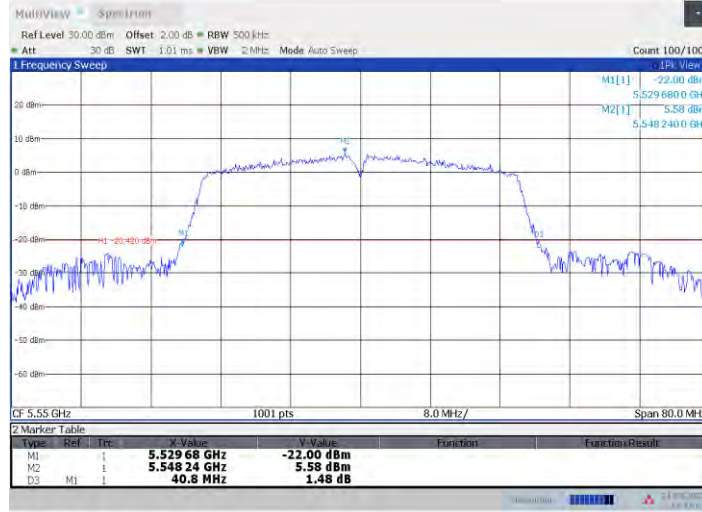
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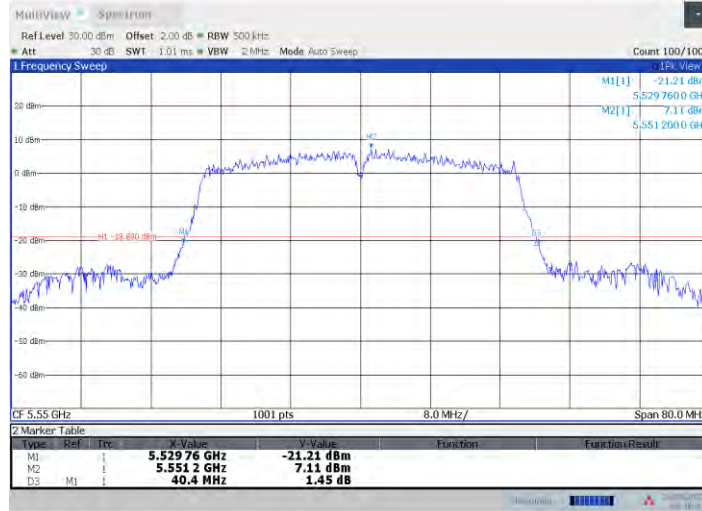


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07:48:47 23.09.2022



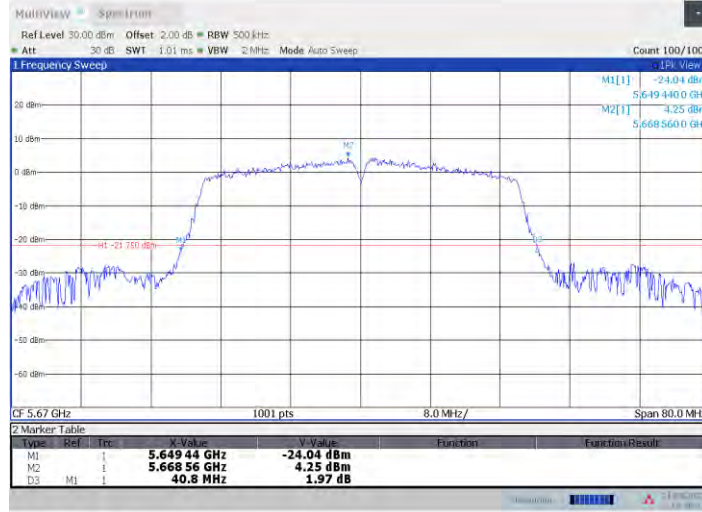
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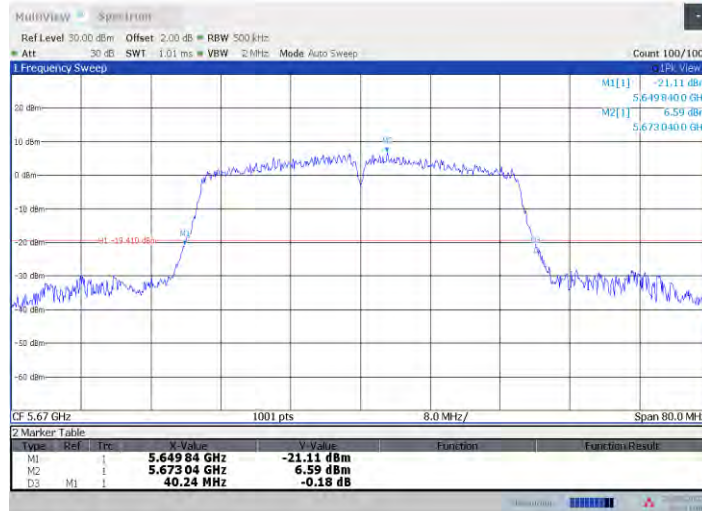


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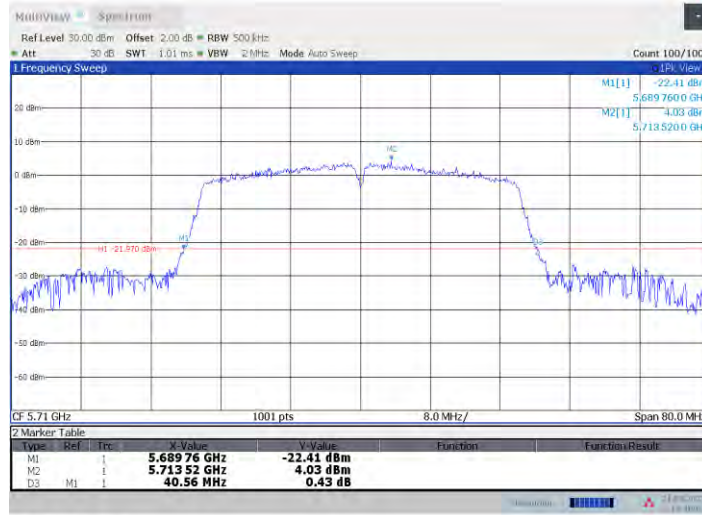
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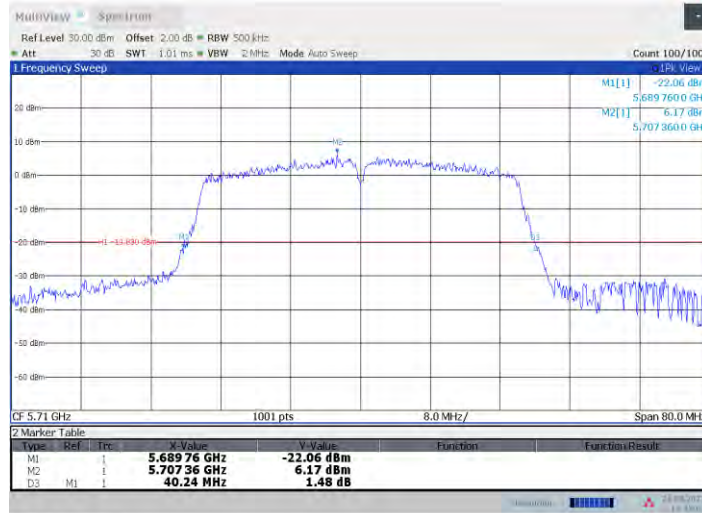
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13:40:04 21.09.2022

11n40MIMO Ant2 5710



15:15:04 24.09.2022

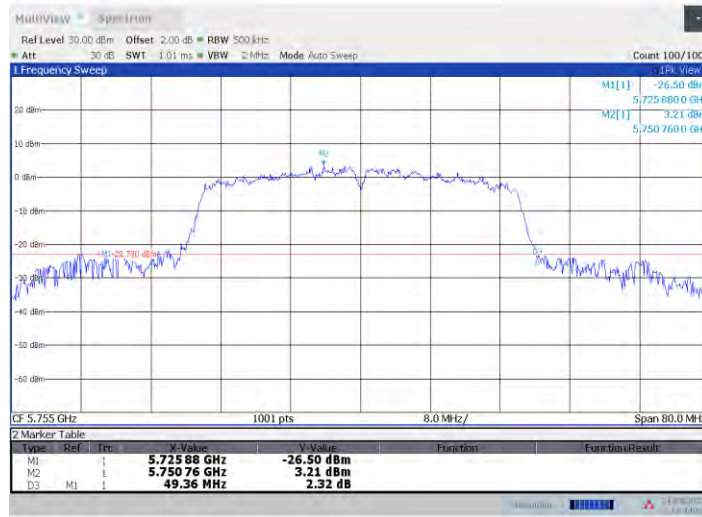


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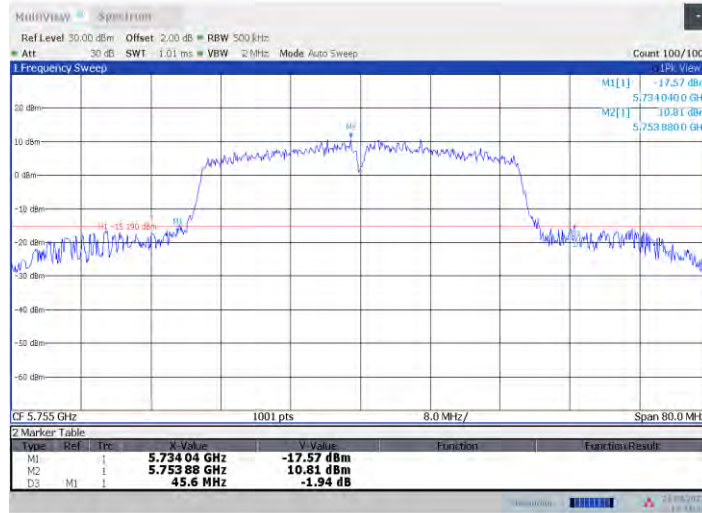
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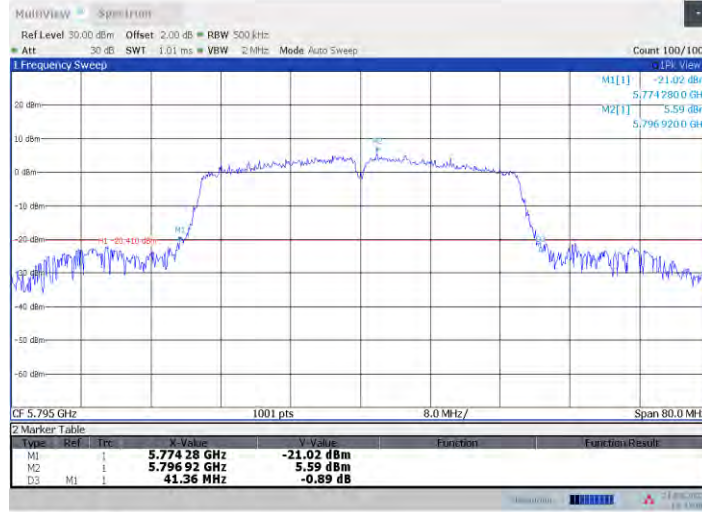
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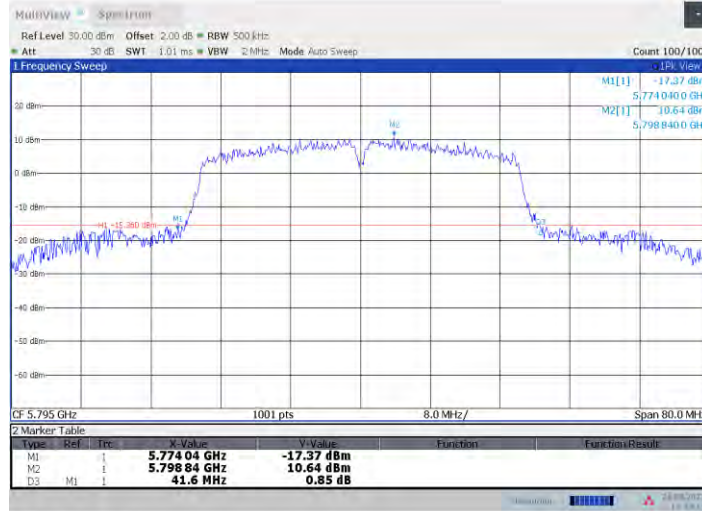


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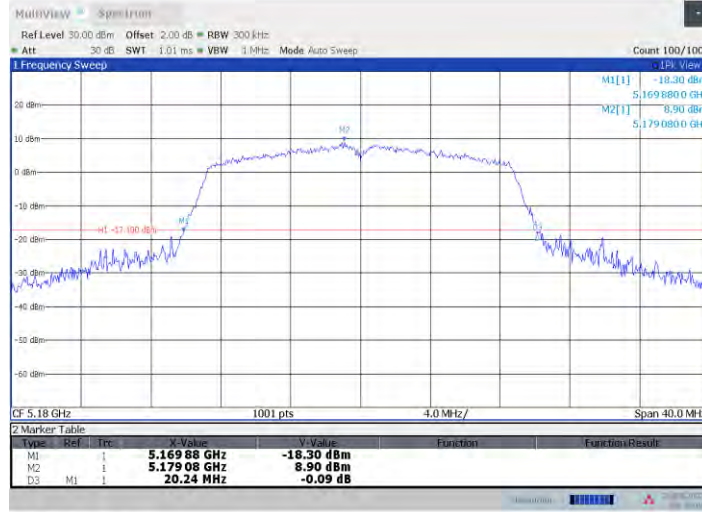
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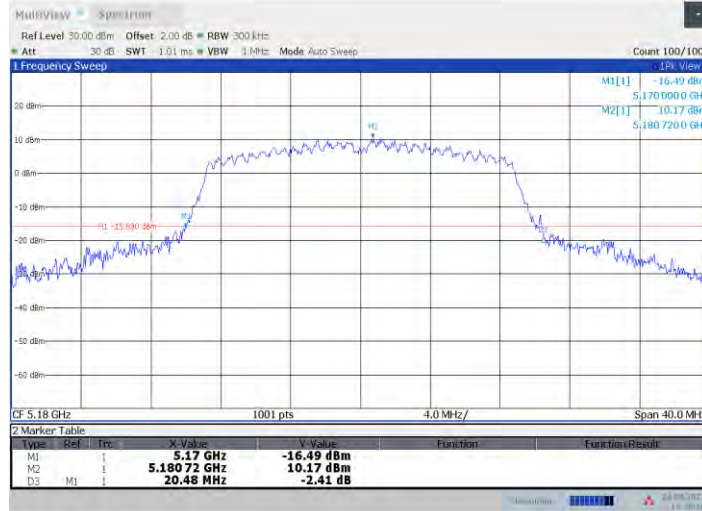


### 11ac20MIMO Ant1 5180



05:53:05 22.09.2022

### 11ac20MIMO Ant2 5180



15:29:17 24.09.2022



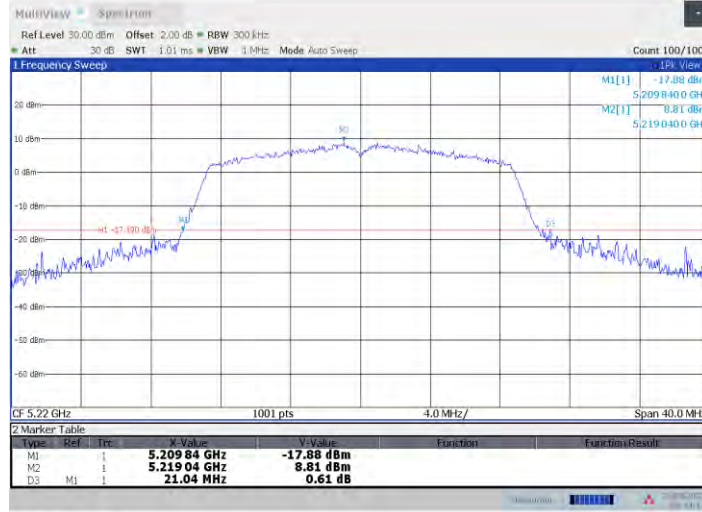
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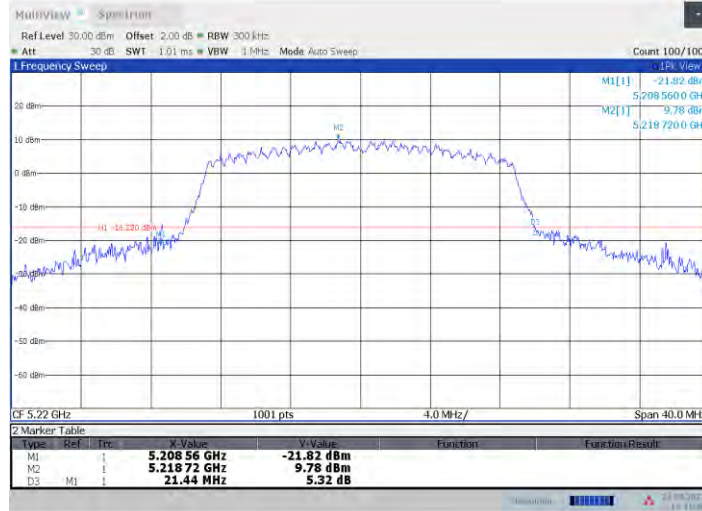
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11ac20MIMO Ant1 5220



05:54:14 22.09.2022

11ac20MIMO Ant2 5220



15:31:38 24.09.2022



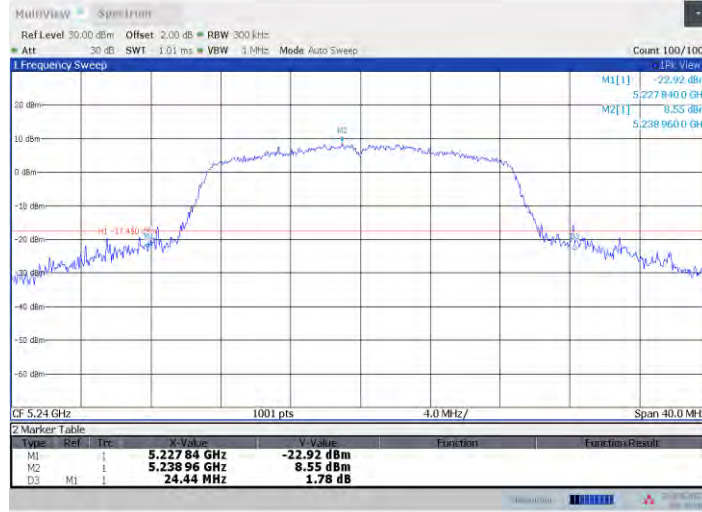
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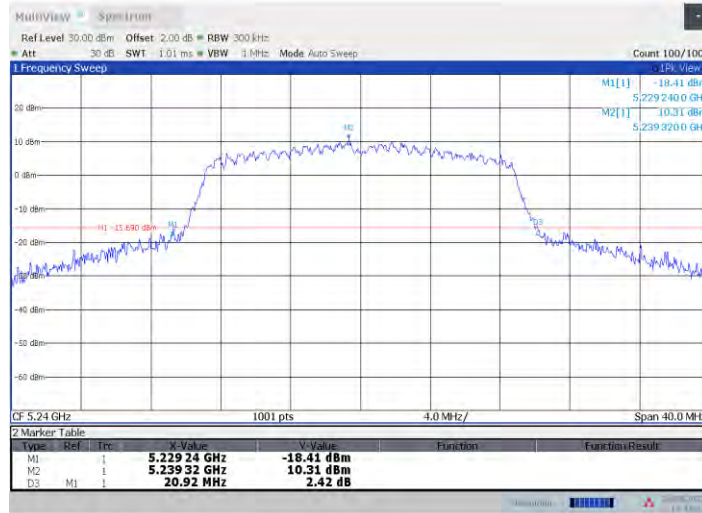
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05:55:48 22.09.2022

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15:39:24 24.09.2022



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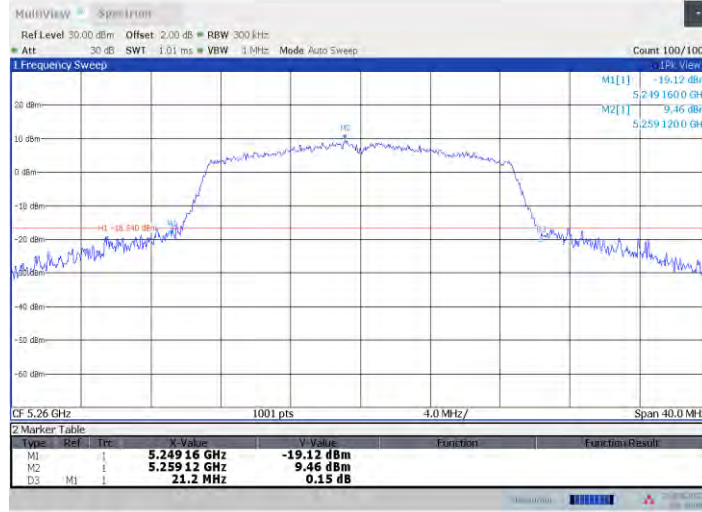
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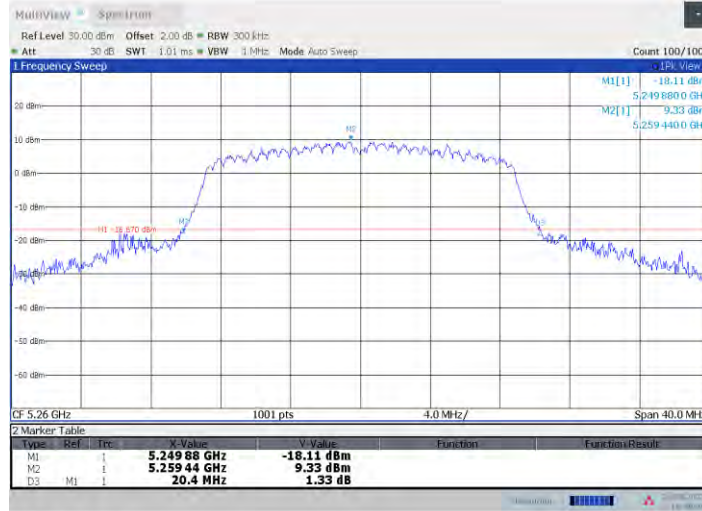


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05:59:09 22.09.2022

11ac20MIMO Ant2 5260

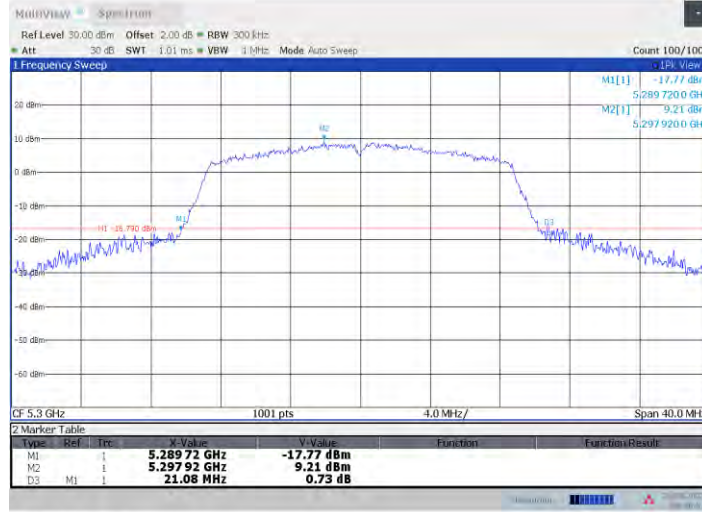


16:09:29 24.09.2022



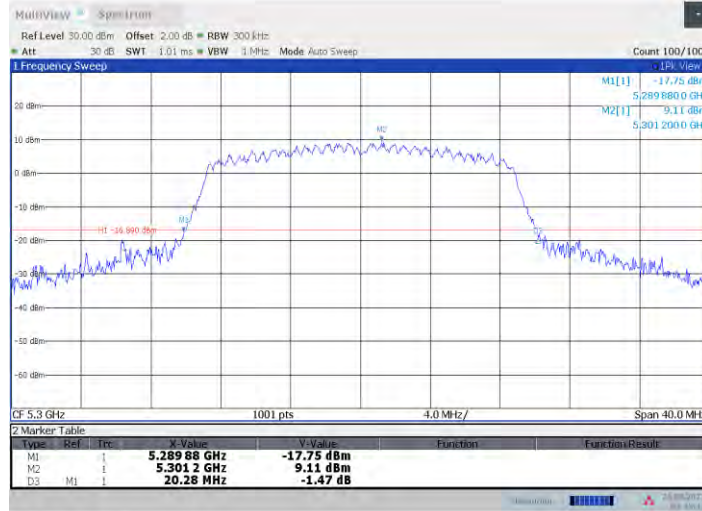
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06:06:53 22.09.2022

11ac20MIMO Ant2\_5300



07:55:44 25.09.2022



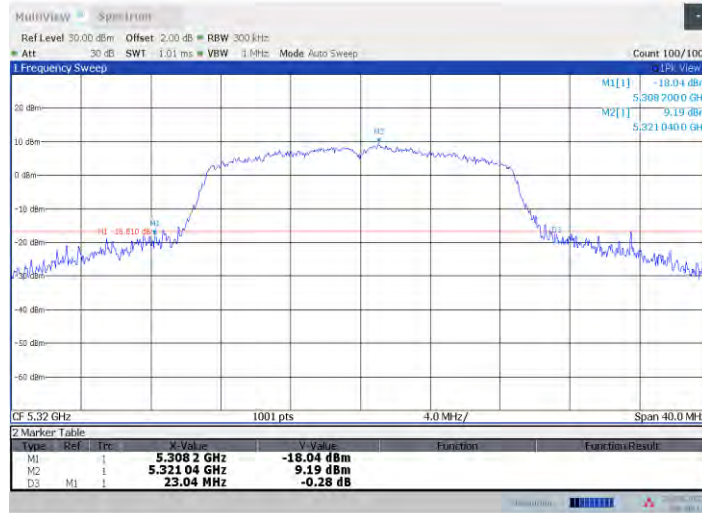
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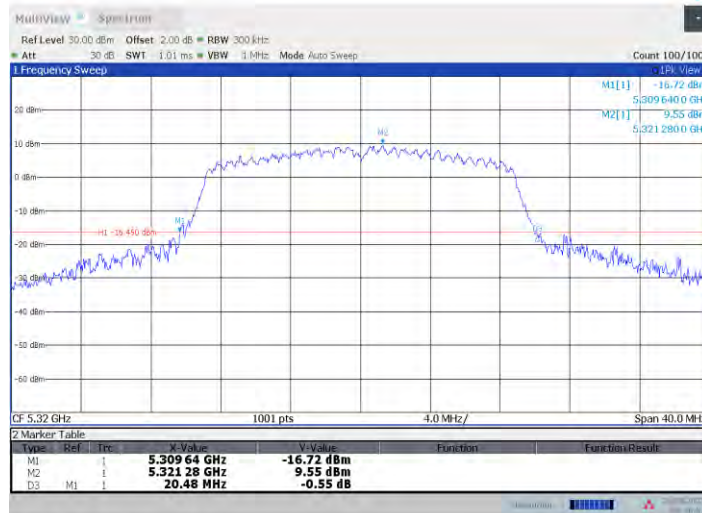
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07:56:53 25.09.2022



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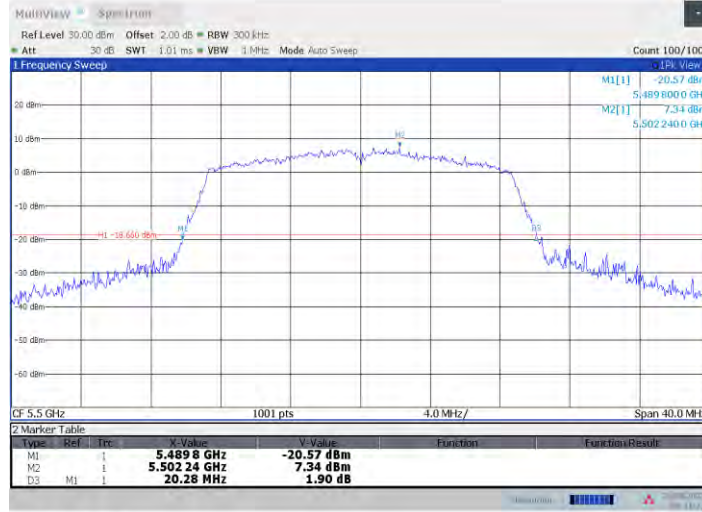
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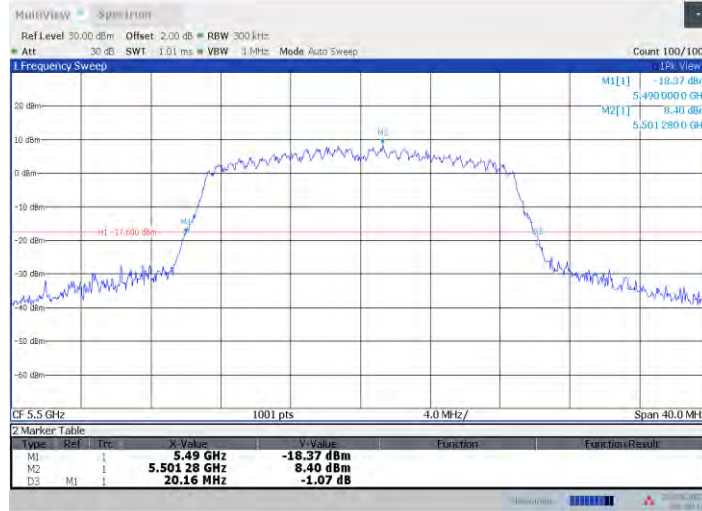


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06:11:23 22.09.2022

### 11ac20MIMO Ant2 5500



07:58:15 25.09.2022



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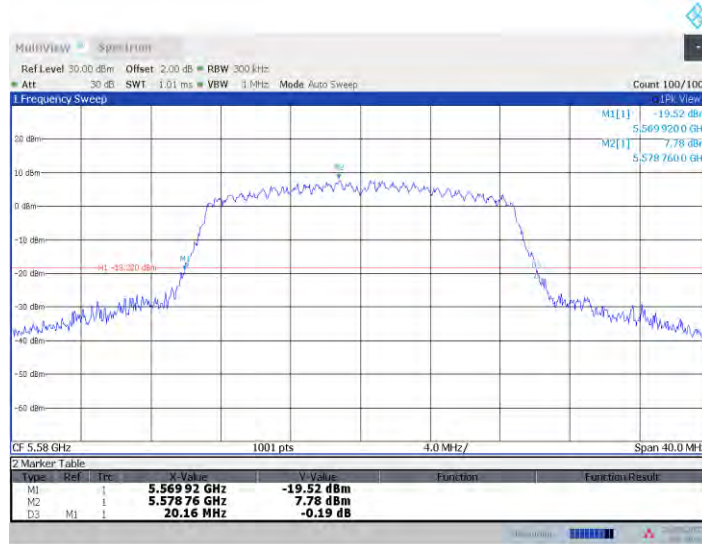
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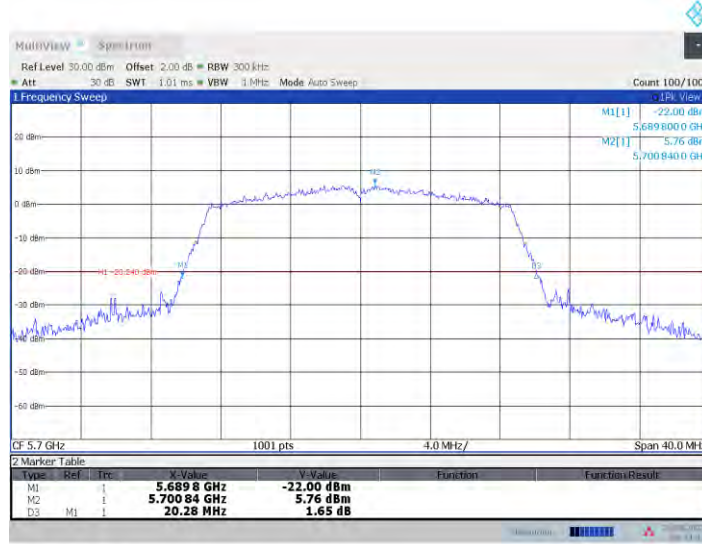


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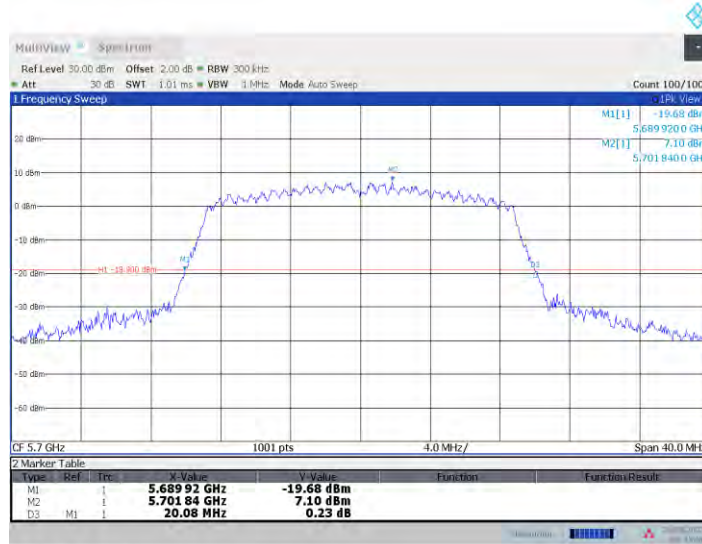
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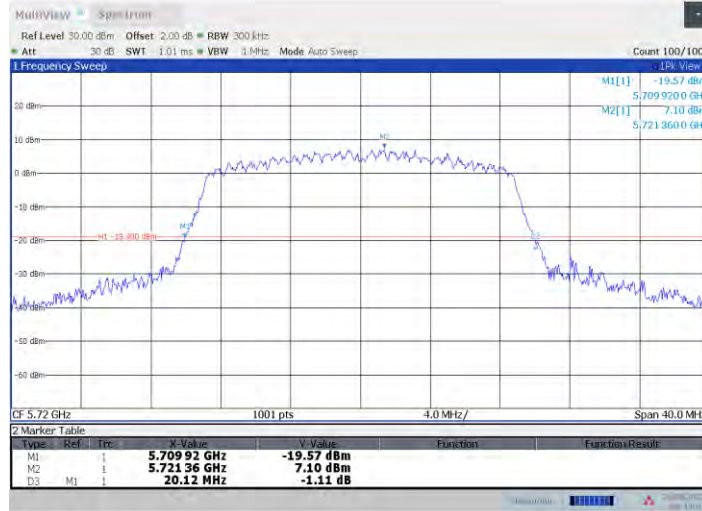


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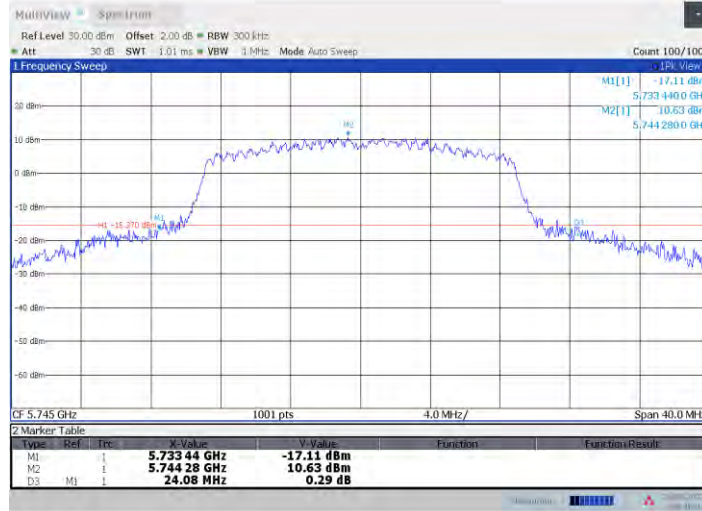
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08:48:45 25.09.2022

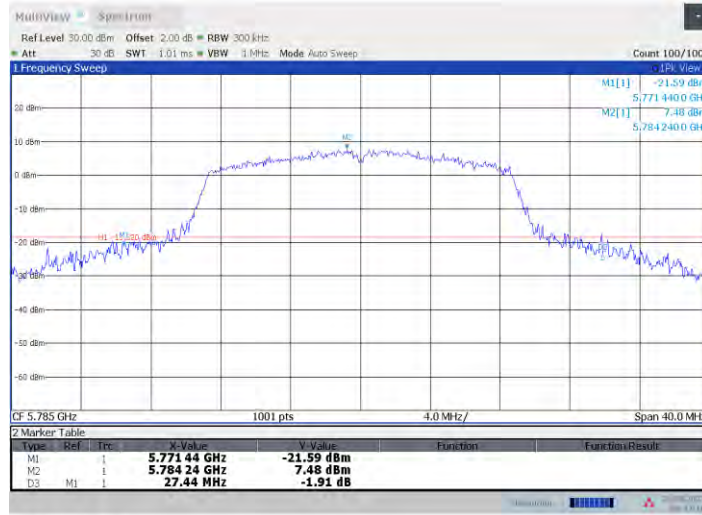


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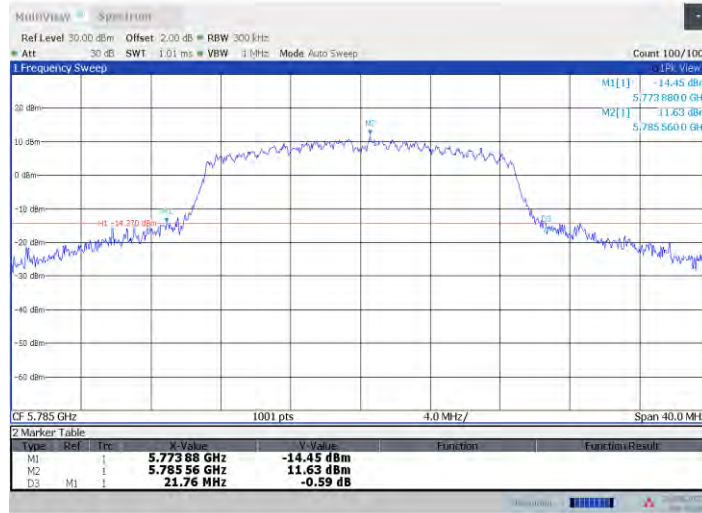
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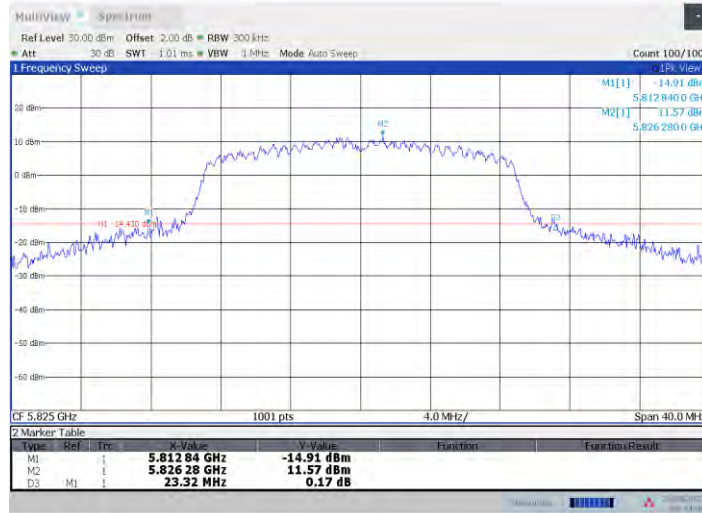


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06:49:00 22.09.2022

11ac20MIMO Ant2 5825

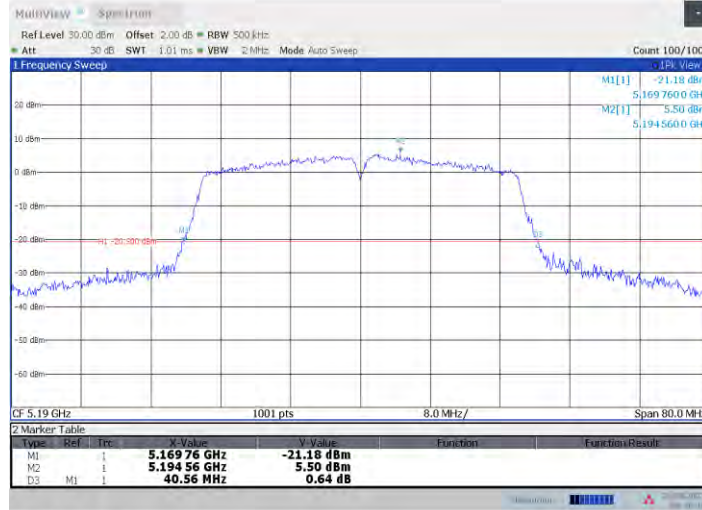


08:54:47 25.09.2022



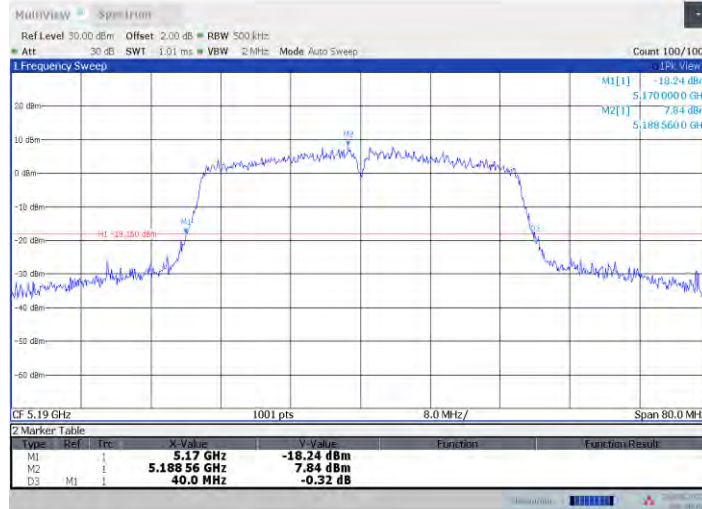
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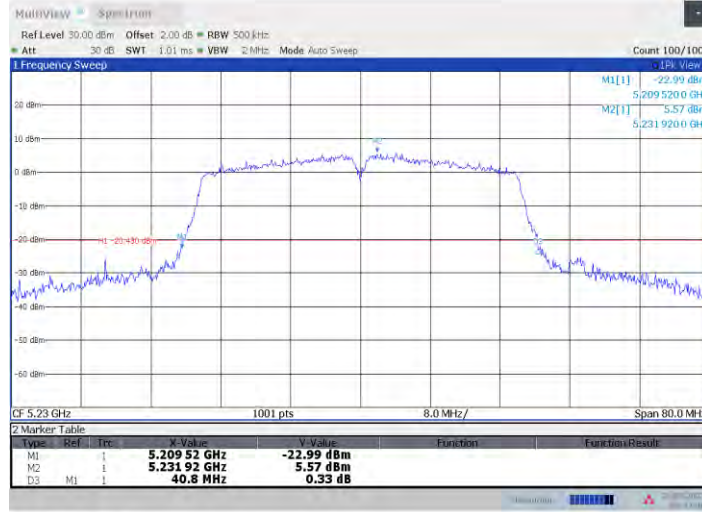


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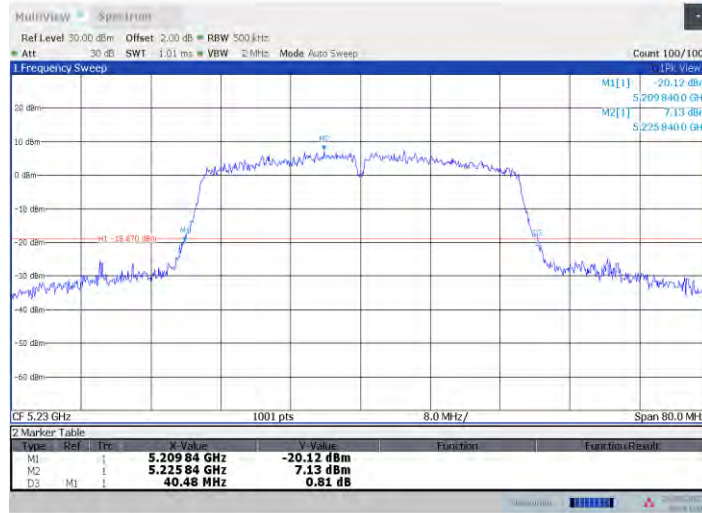
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07:27:47 22.09.2022

11ac40MIMO Ant2 5230



09:01:57 25.09.2022



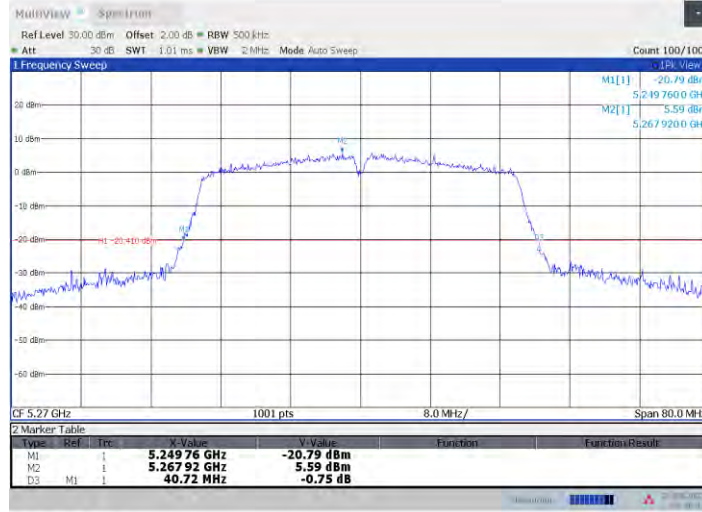
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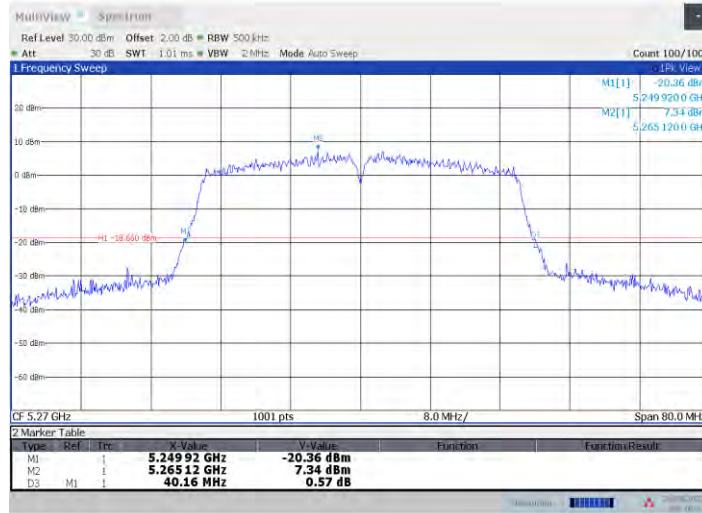


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11ac40MIMO Ant2 5270

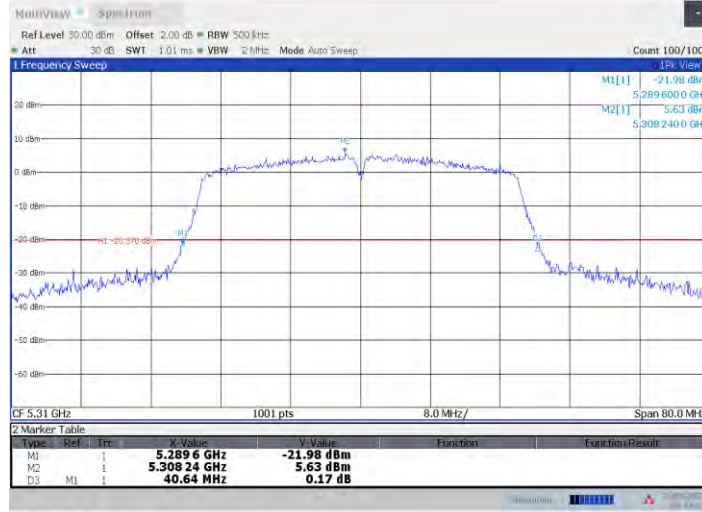


09:10:25 25.09.2022



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07:37:52 22.09.2022

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09:12:21 25.09.2022



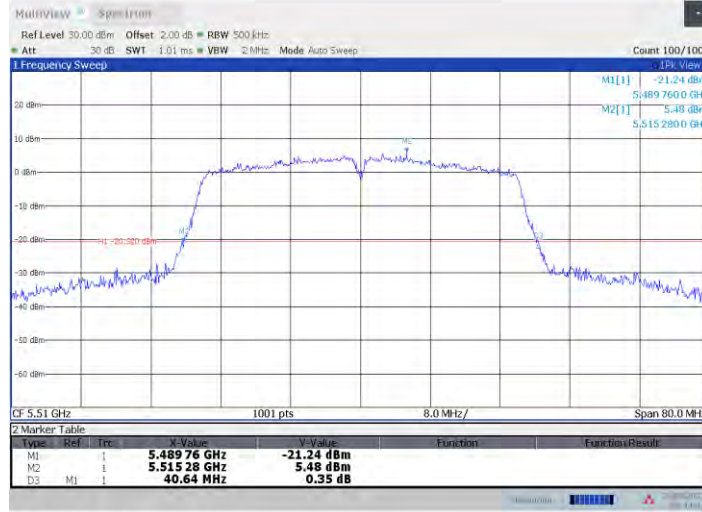
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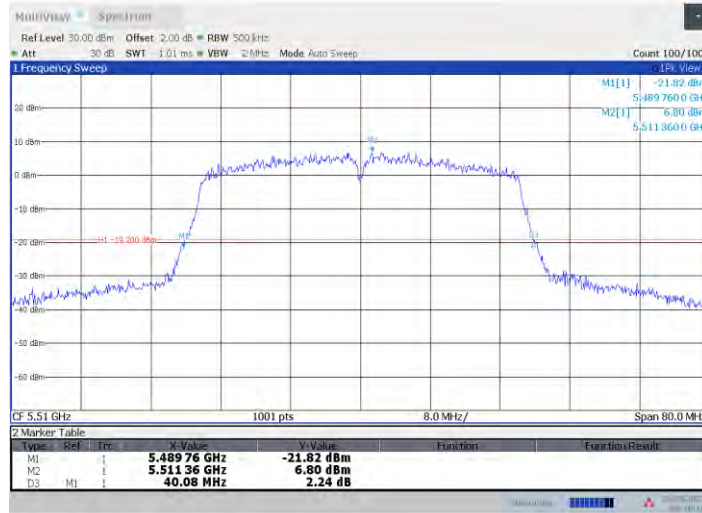
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11ac40MIMO Ant1 5510



07:44:43 22.09.2022

11ac40MIMO Ant2 5510



09:16:20 25.09.2022



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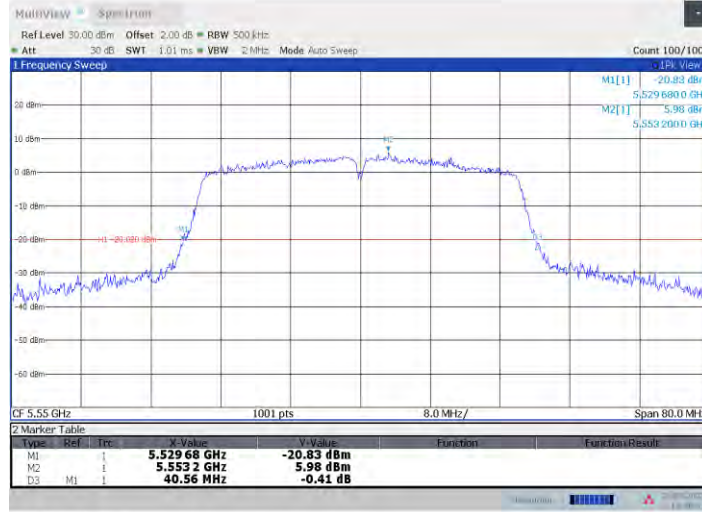
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11ac40MIMO Ant1 5550



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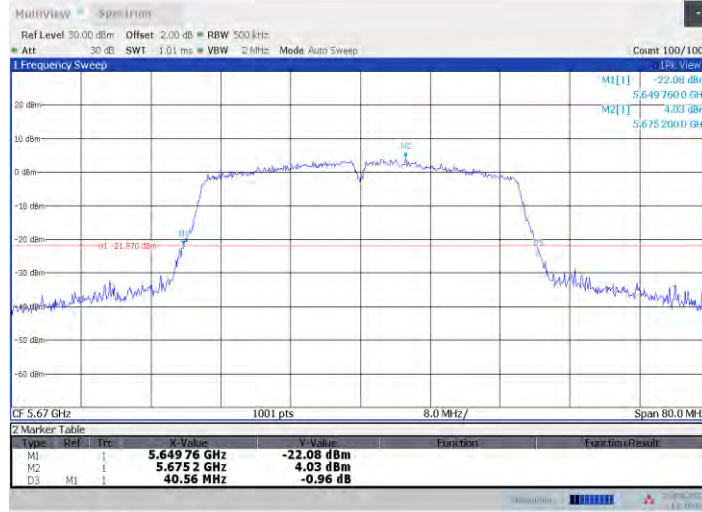


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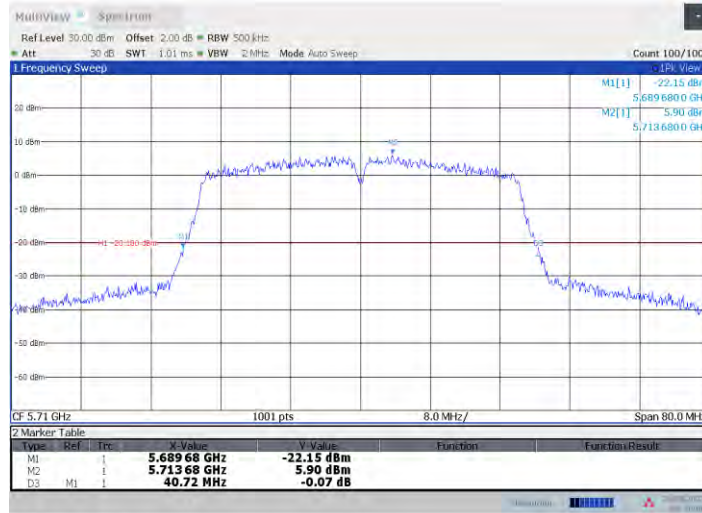
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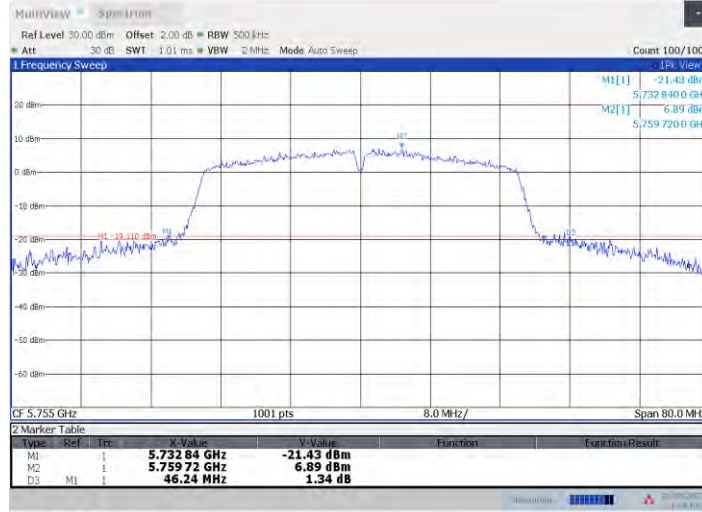
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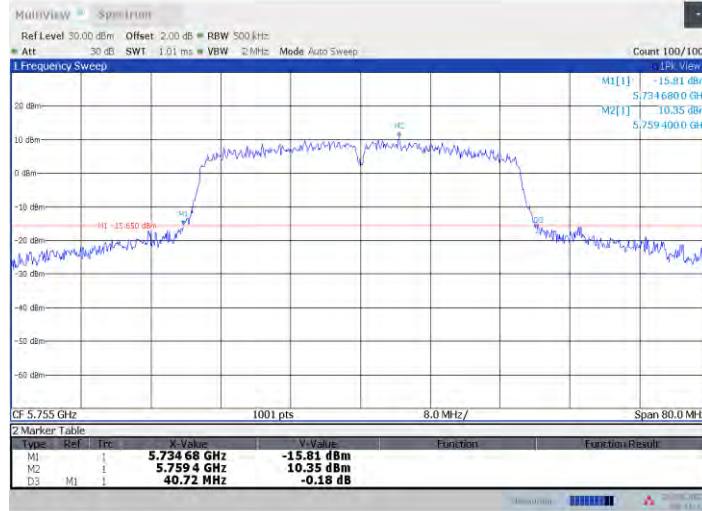


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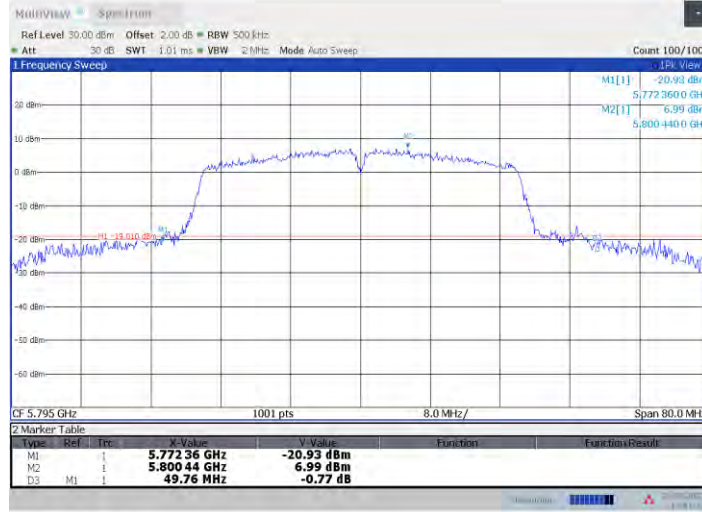
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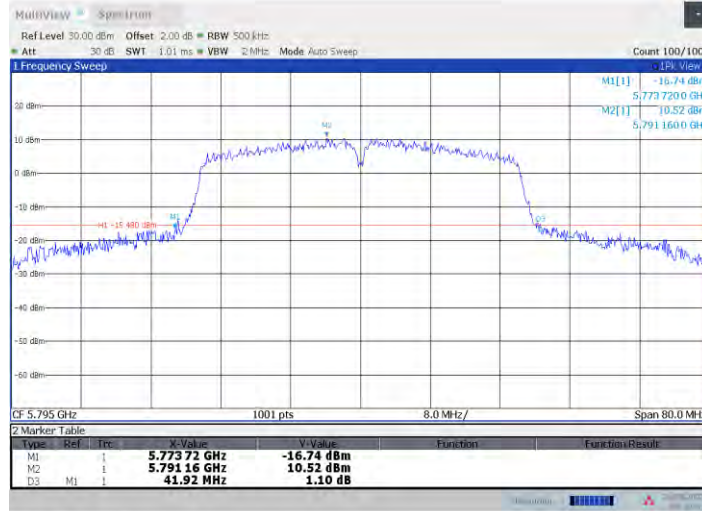
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11ac40MIMO Ant1 5795



12:01:34 22.09.2022

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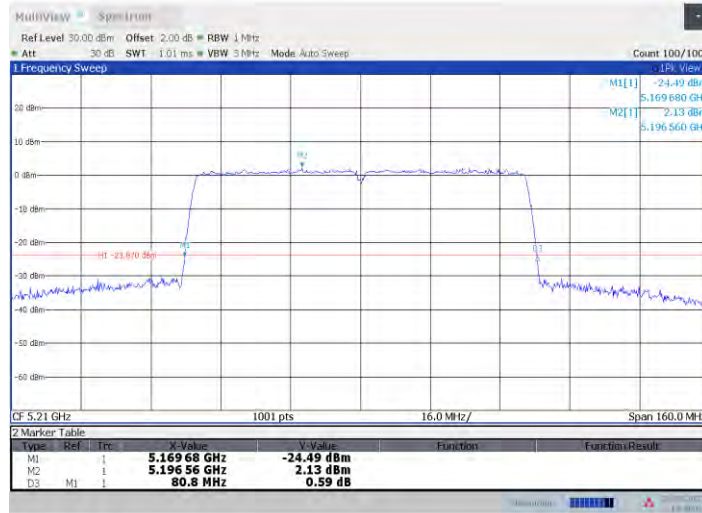


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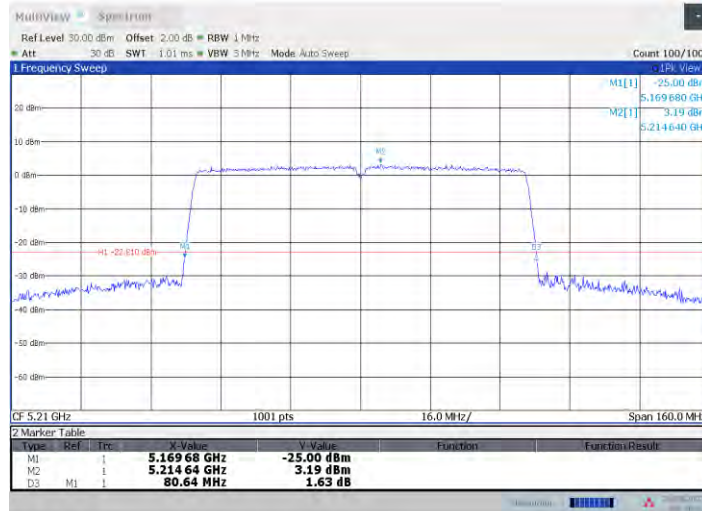
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12:06:04 22.09.2022

### 11ac80MIMO Ant2 5210



09:28:34 25.09.2022



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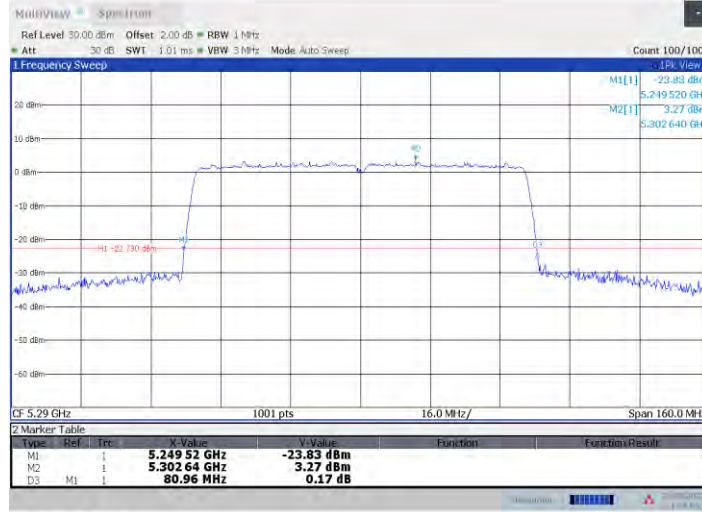
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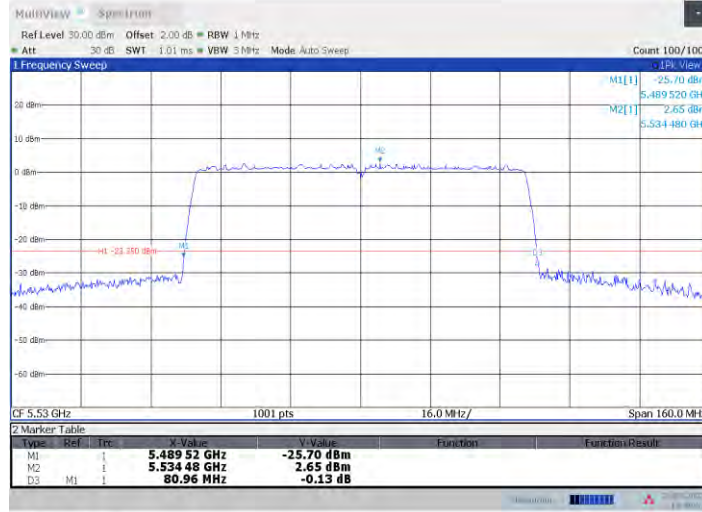


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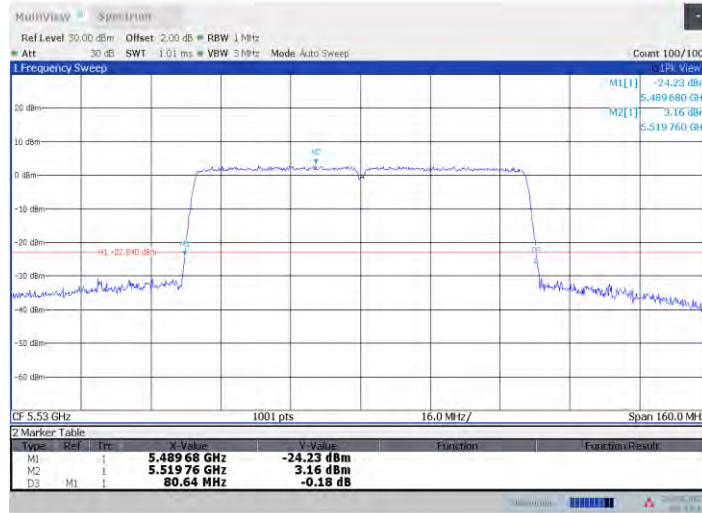
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11ac80MIMO Ant1 5530



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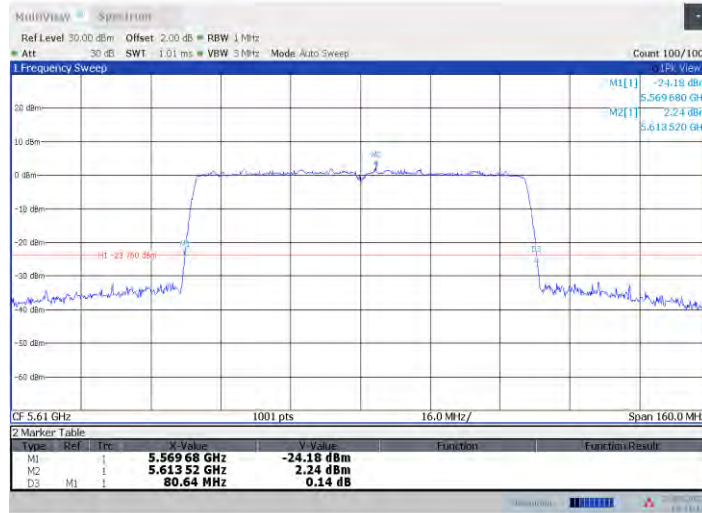
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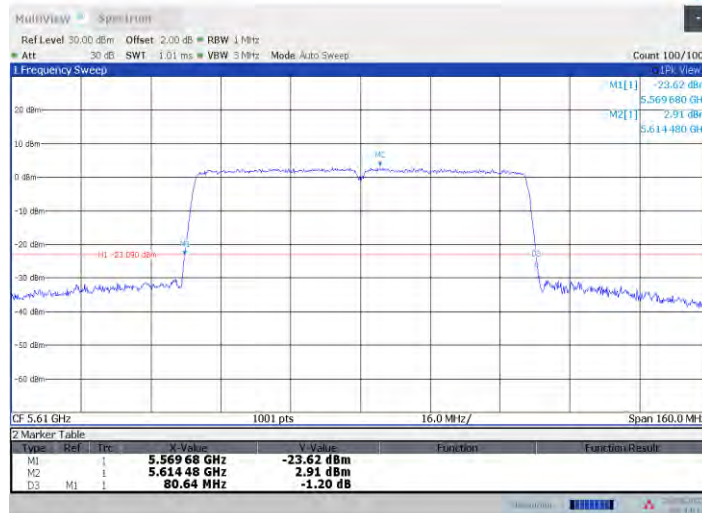
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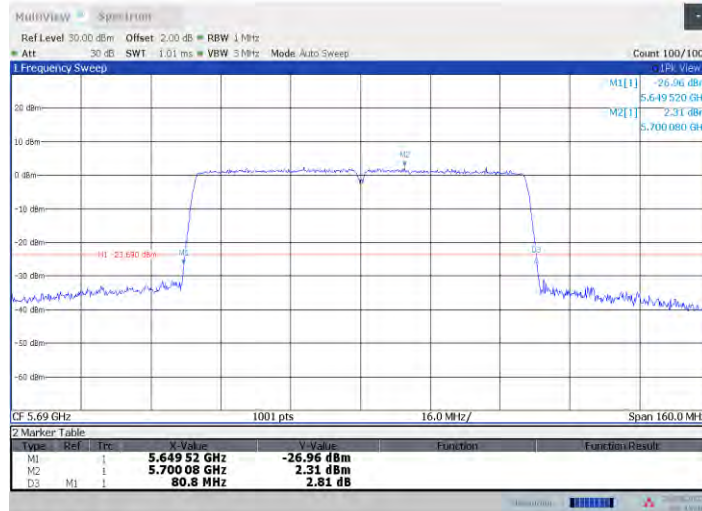


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