

Report No.: SEWM2211000265RG03
Rev.: 01
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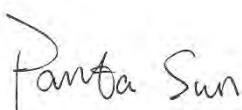
TEST REPORT

Application No.: SEWM2211000265RG
Applicant: Asiatelco Technologies Co.
Address of Applicant: #289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai 201204, China
Manufacturer: Asiatelco Technologies Co.
Address of Manufacturer: #289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai 201204, China
EUT Description: 5G CPE
Model No.: WB550-NA/WB550-EU
Trade Mark: ATEL
FCC ID: XYO-WB550
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/11/22
Date of Test: 2022/12/15 to 2023/01/04
Date of Issue: 2023/01/05

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

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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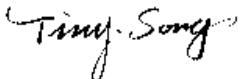
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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		2023/01/05		Original

Prepared By		(Tizzy Song) / Test Engineer
Checked By		(Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Asiatelco Technologies Co.
Address of Applicant:	#289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai 201204, China
Manufacturer:	Asiatelco Technologies Co.
Address of Manufacturer:	#289 Bisheng Road, Building-8, 3F, Zhang jiang Hi-Tech Park, Pudong, Shanghai 201204, China

3.2 Test Location

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

3.3 Test Facility

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

• **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:	5G CPE	
Model No.:	WB550-NA/WB550-EU	
Trade Mark:	ATEL	
Hardware Version:	P1	
Software Version:	CPE_WB550_NA00_VZW_v1.0.8.1	
IMEI:	RF Conducted	862424050029957
	RSE & AC power line	862424050021814
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz
	802.11n(HT40)/ax(HE40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40): 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g
	<input checked="" type="checkbox"/> MIMO	802.11n/ax: 2Tx & 2Rx
	<input type="checkbox"/> Diversity	802.11b/g: 2Tx & 2Rx
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	4.5dBi(Ant1); 3.9dBi(Ant2)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	0.5dB	
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Operation Frequency of each channel (802.11b/g/n HT20/ax HE20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency of each channel (802.11n HT40/ax HE40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20)/ax (HE20)	Frequency for 802.11n (HT40)/ax(HE40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12

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	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:	The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
The antenna is Fixed Internal Antenna and no consideration of replacement.	
The best case gain of the antenna is 4.5dBi(Ant1); 3.9dBi(Ant2).*	
*Note:	<i>The antenna gain are derived from the gain information report provided by the manufacturer.</i>
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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 measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS}=1)$ dB or 3 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 G1, G2, ..., GN dBi

- If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ 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.]

- If all transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$ dBi

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

Power Limit Reduction =

The EUT supports CDD System.

Unequal antenna gain:

ANT Gain1 (dBi)	ANT Gain2 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
4.5	3.9	4.21	7.22	0	1.22

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) = 0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi) = 7.22 – 6 = 1.22

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4.2 AC Power Line Conducted Emissions

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

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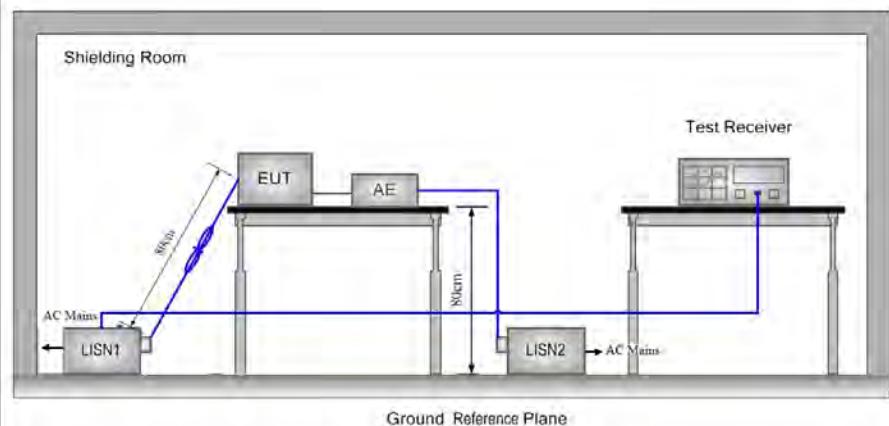
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.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

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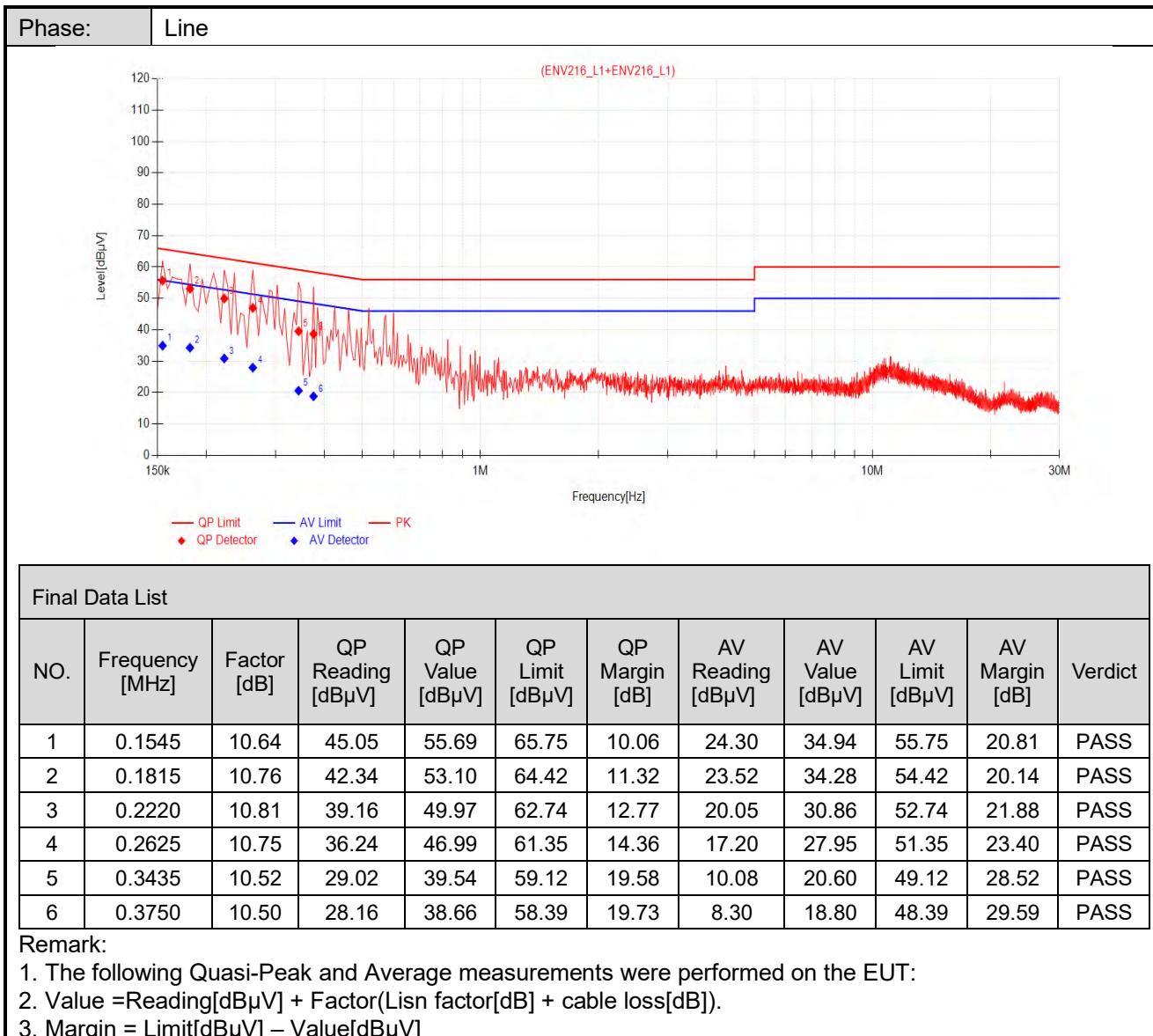
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Measurement Data

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.



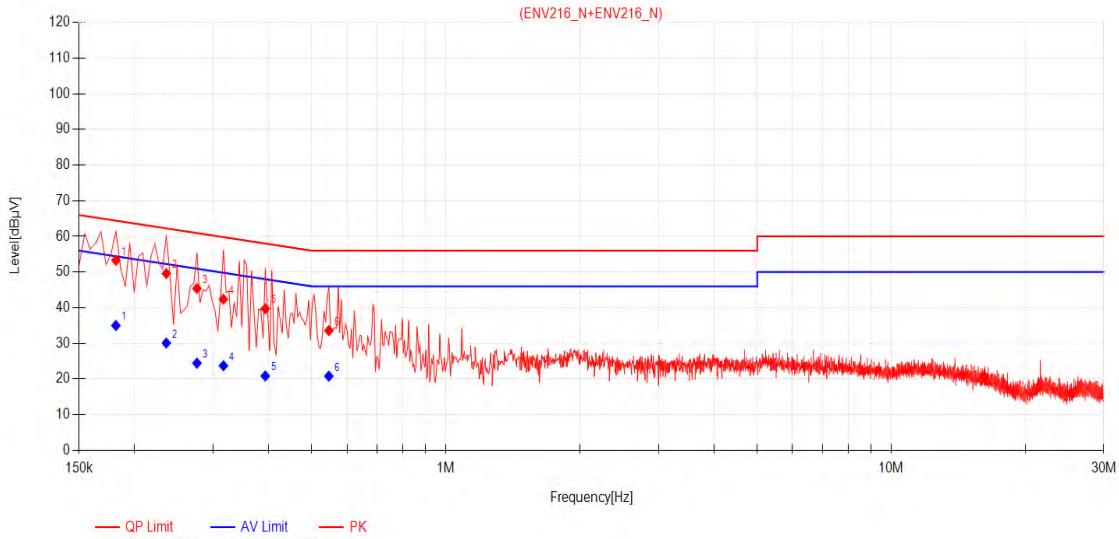
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Phase:	Neutral																																																																																				
																																																																																					
<p>Final Data List</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>Frequency [MHz]</th> <th>Factor [dB]</th> <th>QP Reading [dBμV]</th> <th>QP Value [dBμV]</th> <th>QP Limit [dBμV]</th> <th>QP Margin [dB]</th> <th>AV Reading [dBμV]</th> <th>AV Value [dBμV]</th> <th>AV Limit [dBμV]</th> <th>AV Margin [dB]</th> <th>Verdict</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.1815</td> <td>10.70</td> <td>42.59</td> <td>53.29</td> <td>64.42</td> <td>11.13</td> <td>24.31</td> <td>35.01</td> <td>54.42</td> <td>19.41</td> <td>PASS</td> </tr> <tr> <td>2</td> <td>0.2355</td> <td>10.71</td> <td>38.89</td> <td>49.60</td> <td>62.25</td> <td>12.65</td> <td>19.39</td> <td>30.10</td> <td>52.25</td> <td>22.15</td> <td>PASS</td> </tr> <tr> <td>3</td> <td>0.2760</td> <td>10.74</td> <td>34.66</td> <td>45.40</td> <td>60.94</td> <td>15.54</td> <td>13.70</td> <td>24.44</td> <td>50.94</td> <td>26.50</td> <td>PASS</td> </tr> <tr> <td>4</td> <td>0.3165</td> <td>10.77</td> <td>31.62</td> <td>42.39</td> <td>59.80</td> <td>17.41</td> <td>12.96</td> <td>23.73</td> <td>49.80</td> <td>26.07</td> <td>PASS</td> </tr> <tr> <td>5</td> <td>0.3930</td> <td>10.82</td> <td>28.90</td> <td>39.72</td> <td>58.00</td> <td>18.28</td> <td>10.03</td> <td>20.85</td> <td>48.00</td> <td>27.15</td> <td>PASS</td> </tr> <tr> <td>6</td> <td>0.5460</td> <td>10.75</td> <td>22.84</td> <td>33.59</td> <td>56.00</td> <td>22.41</td> <td>10.04</td> <td>20.79</td> <td>46.00</td> <td>25.21</td> <td>PASS</td> </tr> </tbody> </table> <p>Remark:</p> <ol style="list-style-type: none"> 1. The following Quasi-Peak and Average measurements were performed on the EUT: 2. Value =Reading[dBμV] + Factor(List factor[dB] + cable loss[dB]). 3. Margin = Limit[dBμV] – Value[dBμV] 		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	0.1815	10.70	42.59	53.29	64.42	11.13	24.31	35.01	54.42	19.41	PASS	2	0.2355	10.71	38.89	49.60	62.25	12.65	19.39	30.10	52.25	22.15	PASS	3	0.2760	10.74	34.66	45.40	60.94	15.54	13.70	24.44	50.94	26.50	PASS	4	0.3165	10.77	31.62	42.39	59.80	17.41	12.96	23.73	49.80	26.07	PASS	5	0.3930	10.82	28.90	39.72	58.00	18.28	10.03	20.85	48.00	27.15	PASS	6	0.5460	10.75	22.84	33.59	56.00	22.41	10.04	20.79	46.00	25.21	PASS
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																																																																										
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4.3 Duty Cycle

The detailed test data see: **Appendix**



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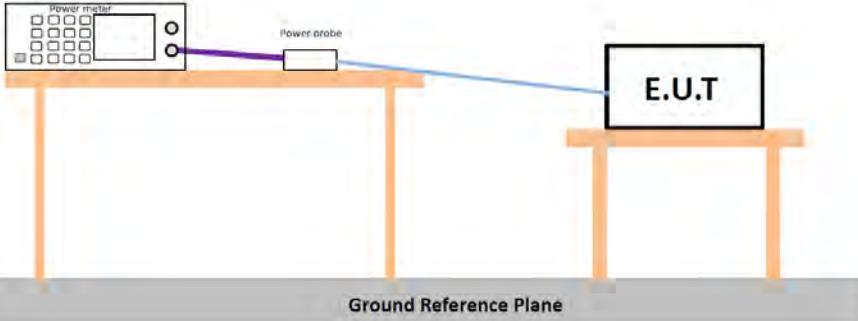
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 <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:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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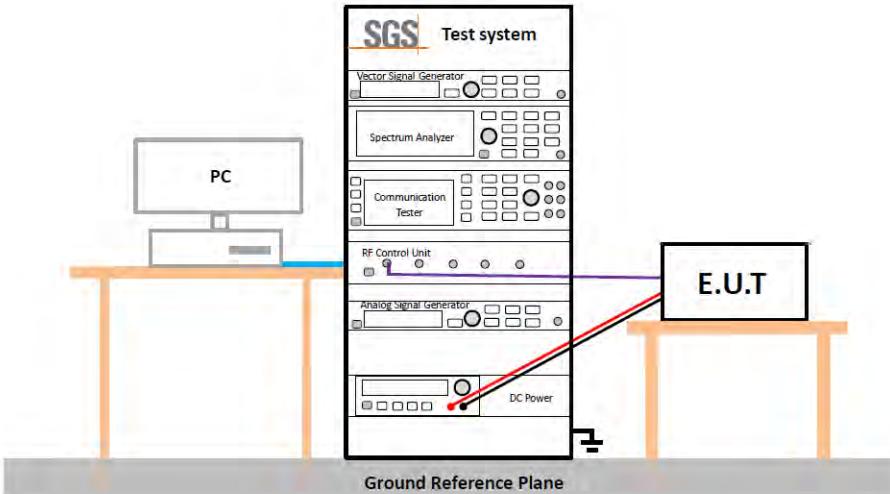
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 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:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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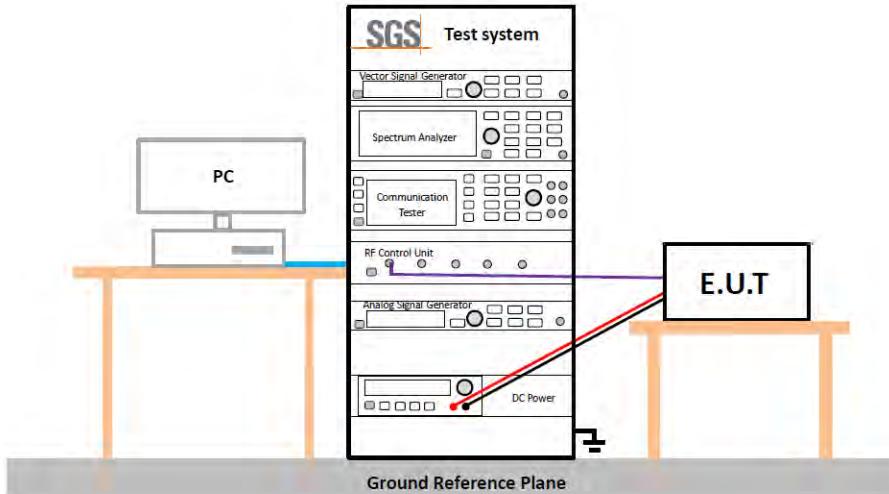
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
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:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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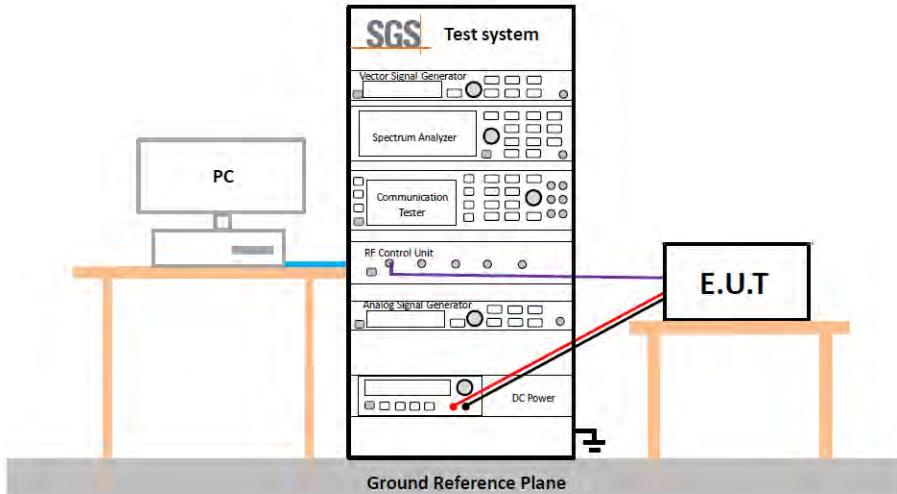
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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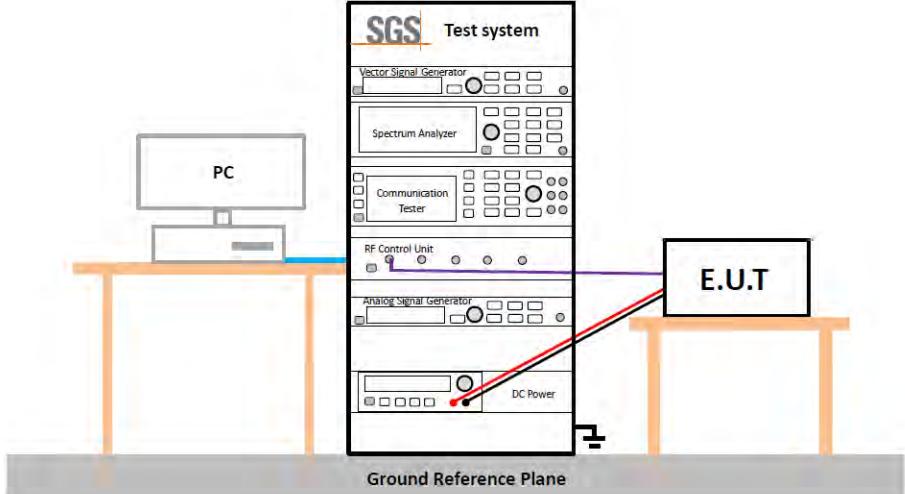
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

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Test Setup:

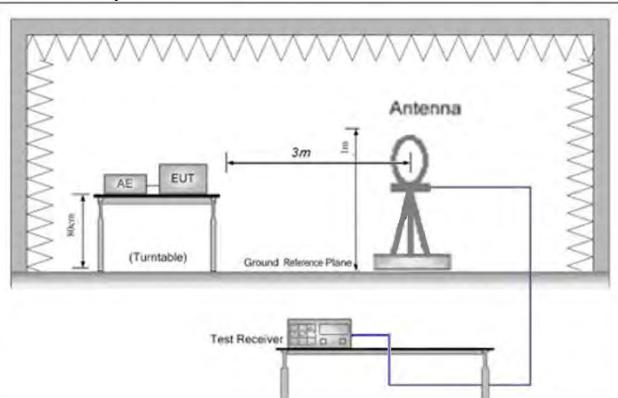


Figure 1. Below 30MHz

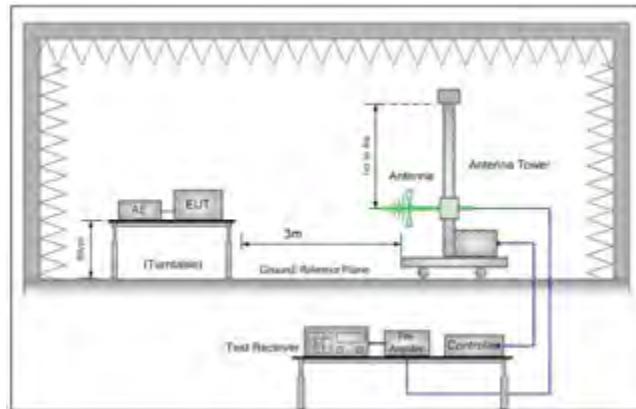


Figure 2. 30MHz to 1GHz

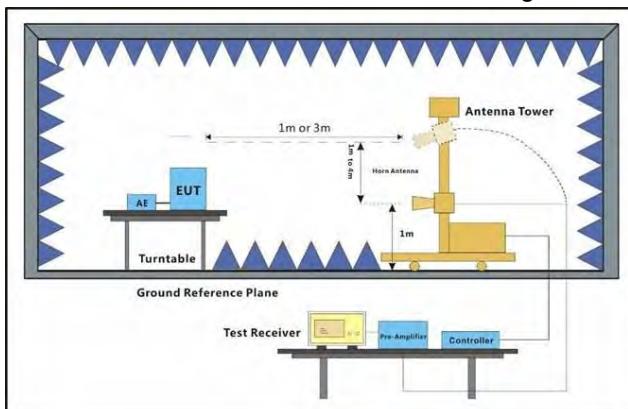


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, 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, 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 then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the



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	<p>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 lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 * \log(3/1) = 9.54$ dB.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq [3 *RBW]• Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.• Sweep time = auto• Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
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:

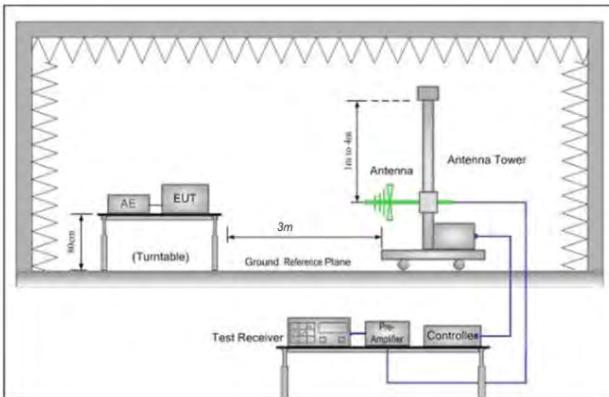


Figure 1. 30MHz to 1GHz

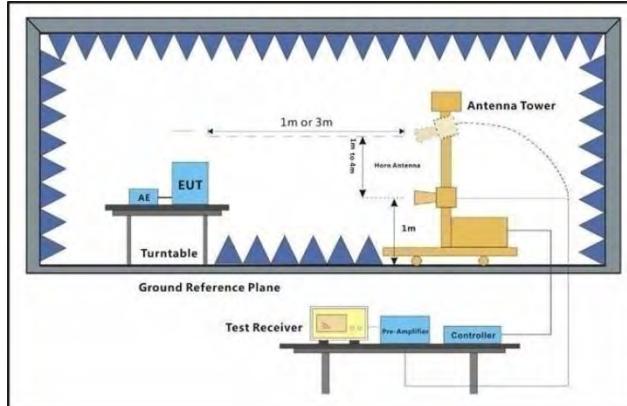


Figure 2. Above 1 GHz



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Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, 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, 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 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 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 lowest channel , the Highest channel 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. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> RBW = 1 MHz VBW \geq 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> RBW = 1 MHz VBW \geq [3 *RBW] Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. Sweep time = auto Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>



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Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	

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

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispri/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE & SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE & SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2022/11/23	2023/11/22
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

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

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



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	8.12	2407.96	2416.08	≥0.5	PASS
		2437	8.12	2432.96	2441.08	≥0.5	PASS
		2462	8.08	2457.96	2466.04	≥0.5	PASS
11g	Ant1	2412	14.52	2405.08	2419.60	≥0.5	PASS
		2437	13.84	2430.08	2443.92	≥0.5	PASS
		2462	15.16	2454.40	2469.56	≥0.5	PASS
11n20MIMO	Ant1	2412	15.20	2404.40	2419.60	≥0.5	PASS
	Ant2	2412	15.80	2403.80	2419.60	≥0.5	PASS
	Ant1	2437	15.20	2429.40	2444.60	≥0.5	PASS
	Ant2	2437	15.80	2429.40	2445.20	≥0.5	PASS
	Ant1	2462	15.20	2454.40	2469.60	≥0.5	PASS
	Ant2	2462	16.40	2453.80	2470.20	≥0.5	PASS
11n40MIMO	Ant1	2422	35.28	2404.32	2439.60	≥0.5	PASS
	Ant2	2422	35.20	2404.40	2439.60	≥0.5	PASS
	Ant1	2437	35.20	2419.40	2454.60	≥0.5	PASS
	Ant2	2437	35.20	2419.40	2454.60	≥0.5	PASS
	Ant1	2452	34.00	2435.60	2469.60	≥0.5	PASS
	Ant2	2452	34.00	2435.60	2469.60	≥0.5	PASS
11ax20MIMO	Ant1	2412	16.40	2404.12	2420.52	≥0.5	PASS
	Ant2	2412	18.12	2402.96	2421.08	≥0.5	PASS
	Ant1	2437	17.96	2428.36	2446.32	≥0.5	PASS
	Ant2	2437	17.68	2428.68	2446.36	≥0.5	PASS
	Ant1	2462	18.60	2452.72	2471.32	≥0.5	PASS
	Ant2	2462	18.24	2452.92	2471.16	≥0.5	PASS
11ax40MIMO	Ant1	2422	36.16	2403.44	2439.60	≥0.5	PASS
	Ant2	2422	37.52	2403.12	2440.64	≥0.5	PASS
	Ant1	2437	35.92	2418.92	2454.84	≥0.5	PASS
	Ant2	2437	37.12	2418.28	2455.40	≥0.5	PASS
	Ant1	2452	35.20	2434.40	2469.60	≥0.5	PASS
	Ant2	2452	34.00	2435.60	2469.60	≥0.5	PASS

Remark:

For WLAN 802.11b/g SISO mode, only select the antenna of power worst for test.



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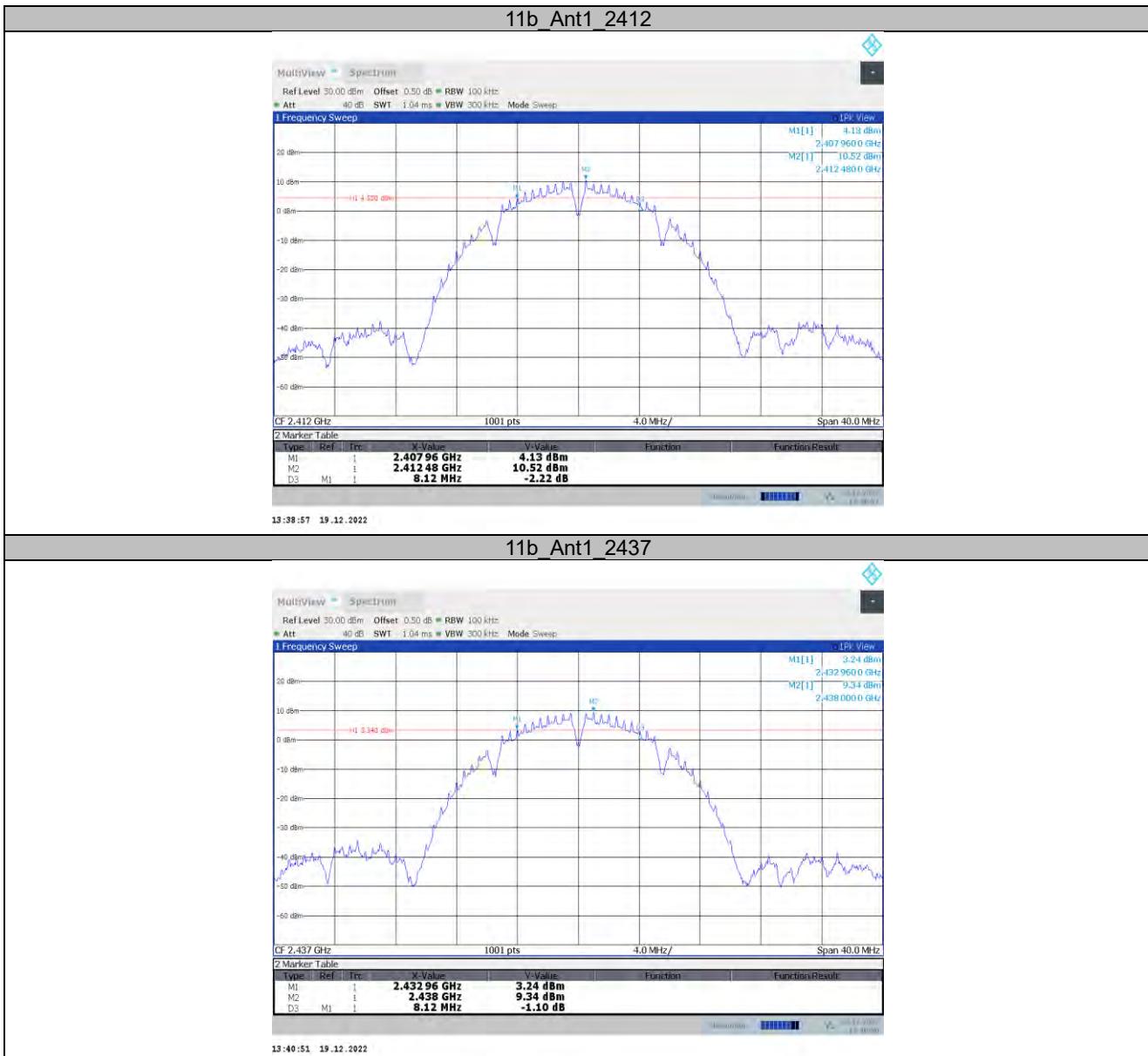
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Test Graphs



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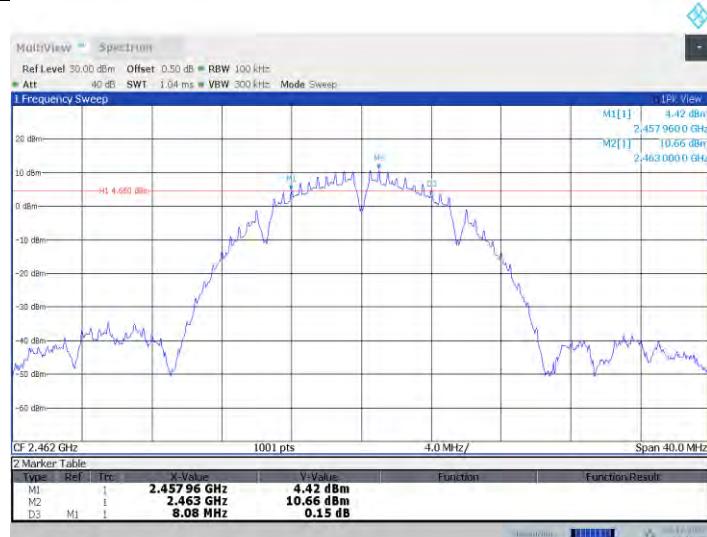
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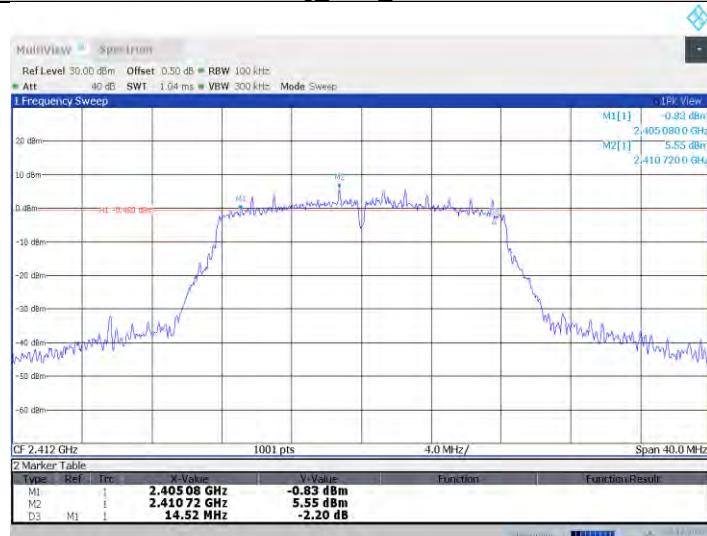
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13:42:29 19.12.2022

11g_Ant1_2412



13:55:44 19.12.2022

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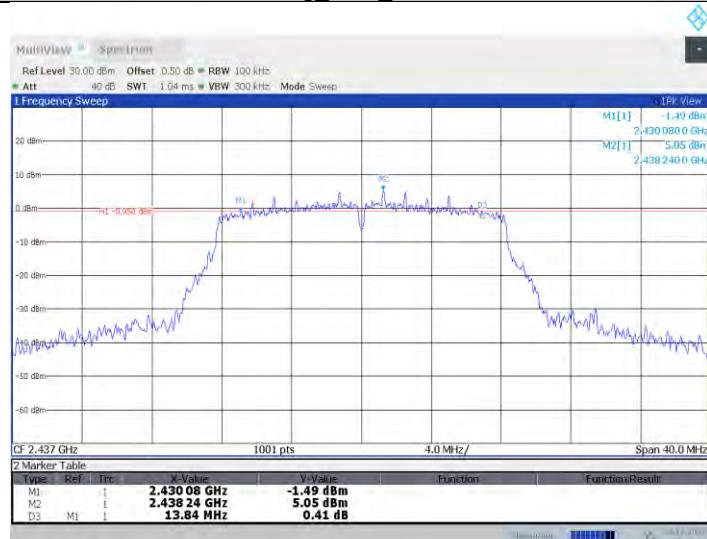
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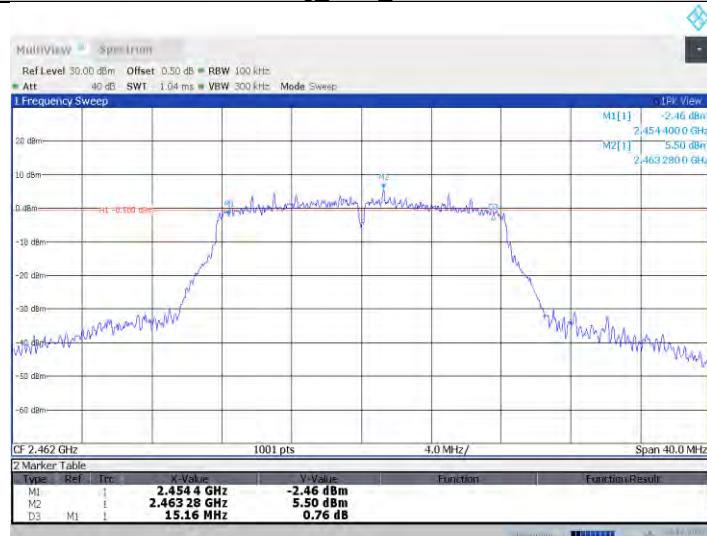
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05:56:13 20.12.2022

11g_Ant1_2462



06:02:02 20.12.2022

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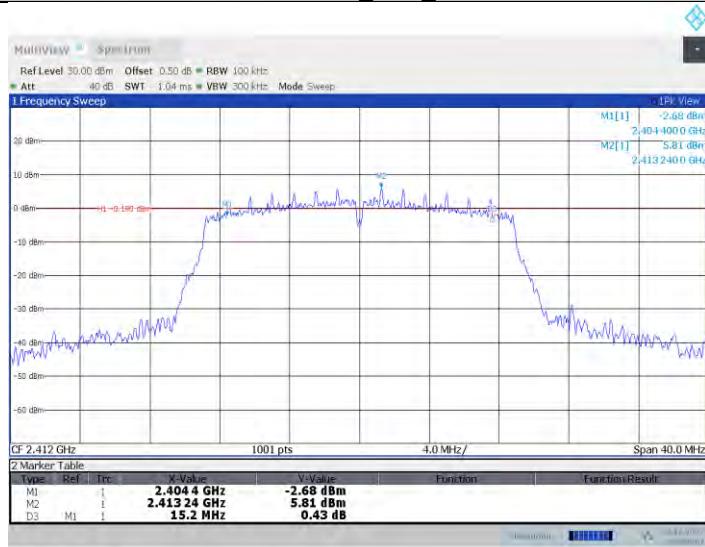
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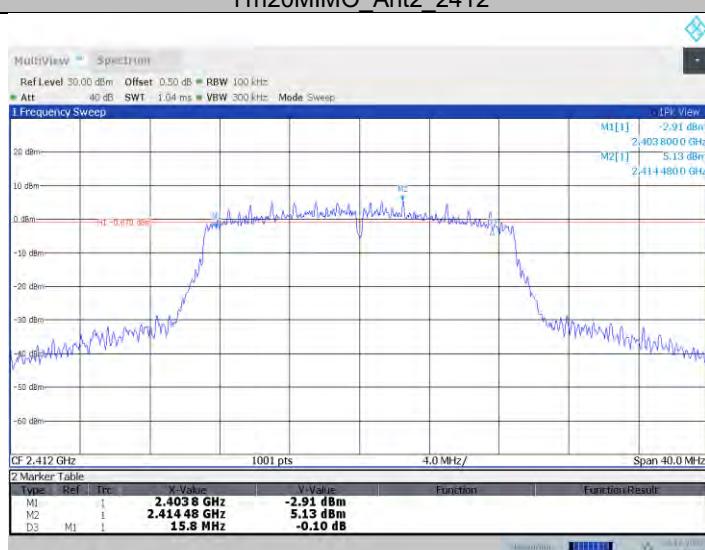
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11n20MIMO_Ant1_2412



11n20MIMO_Ant2_2412



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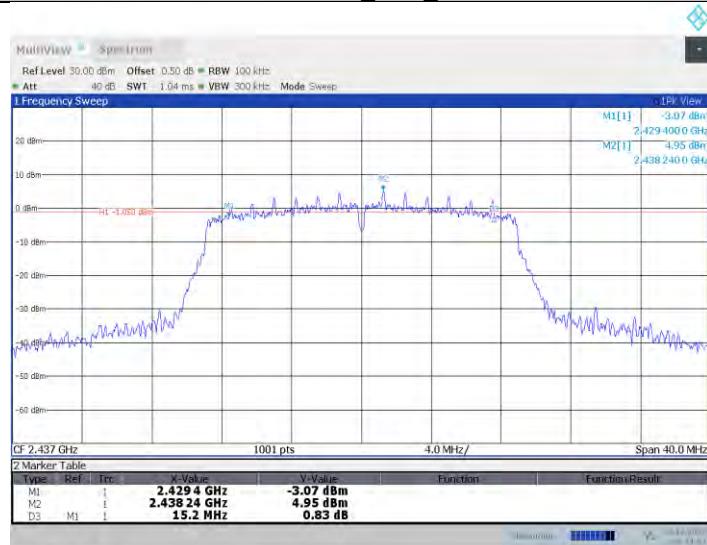
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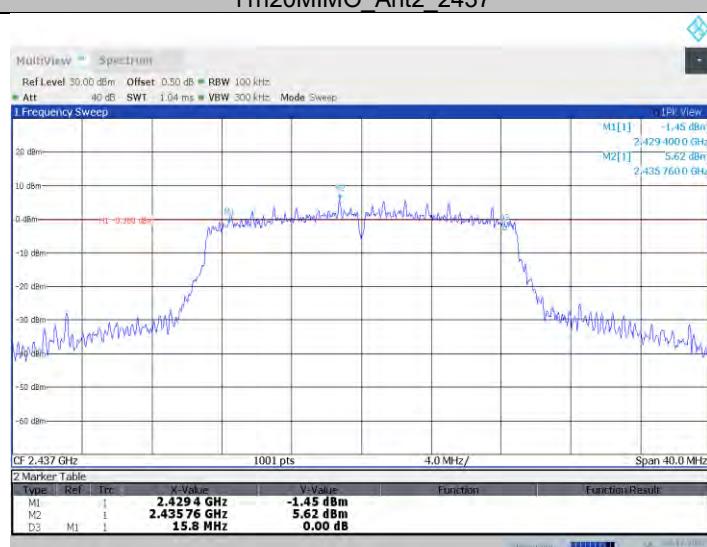
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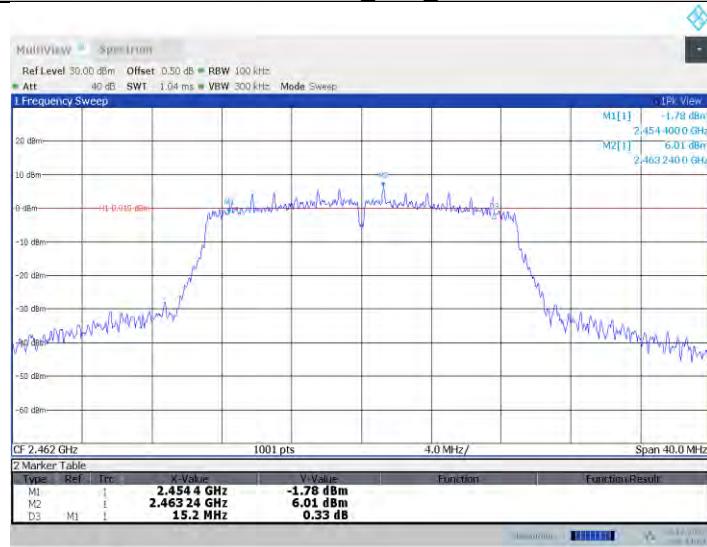
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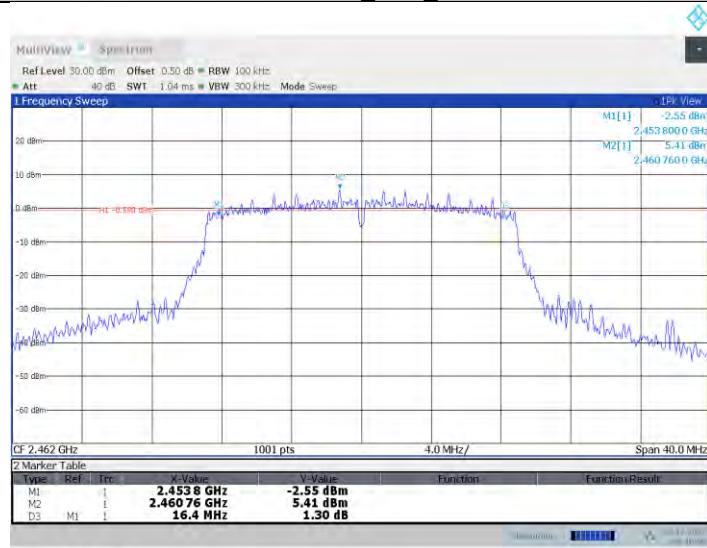
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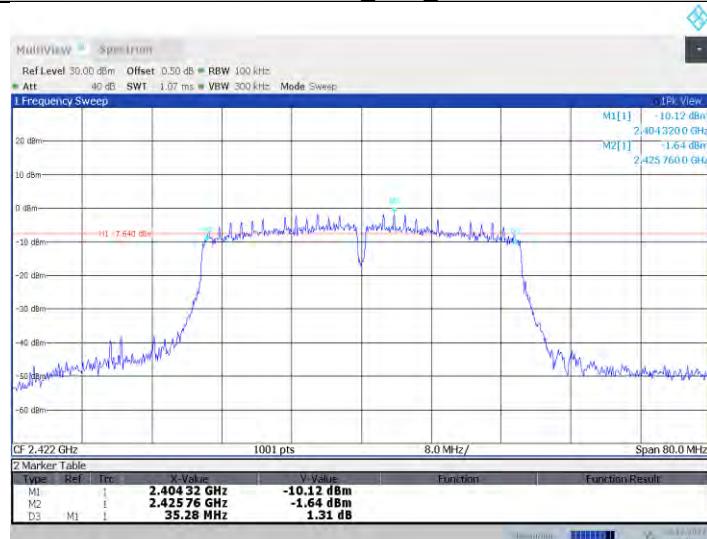
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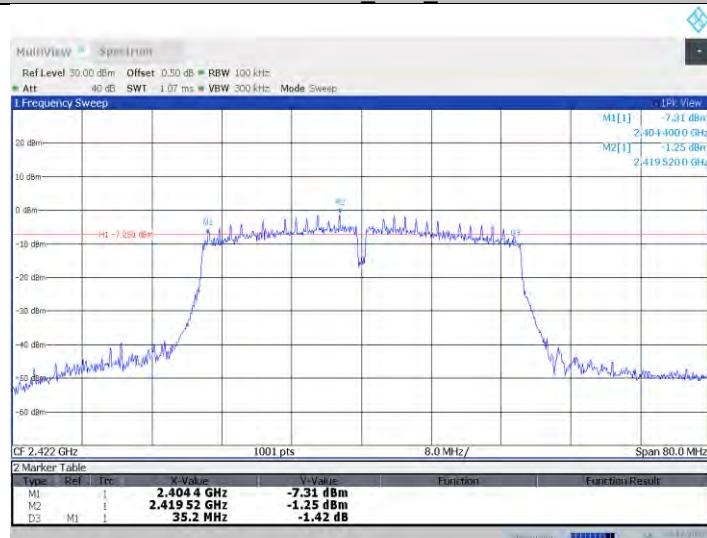
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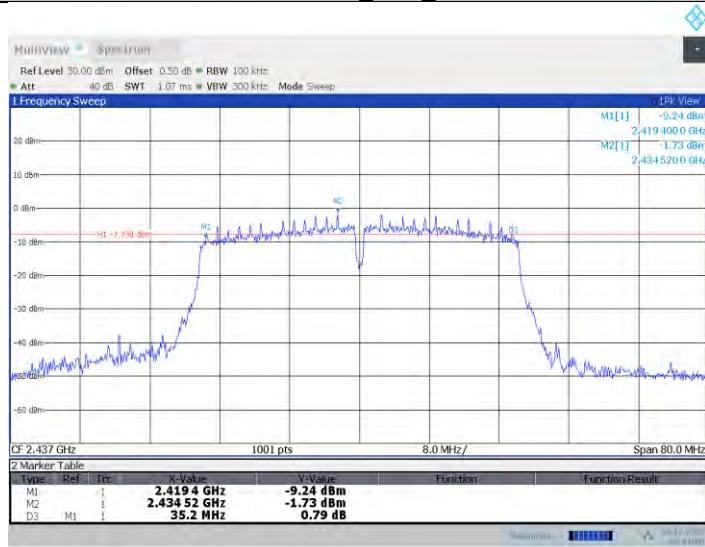
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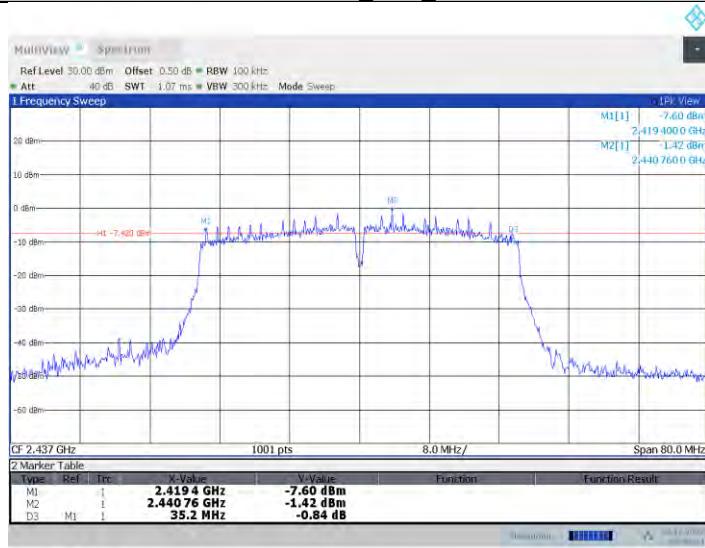
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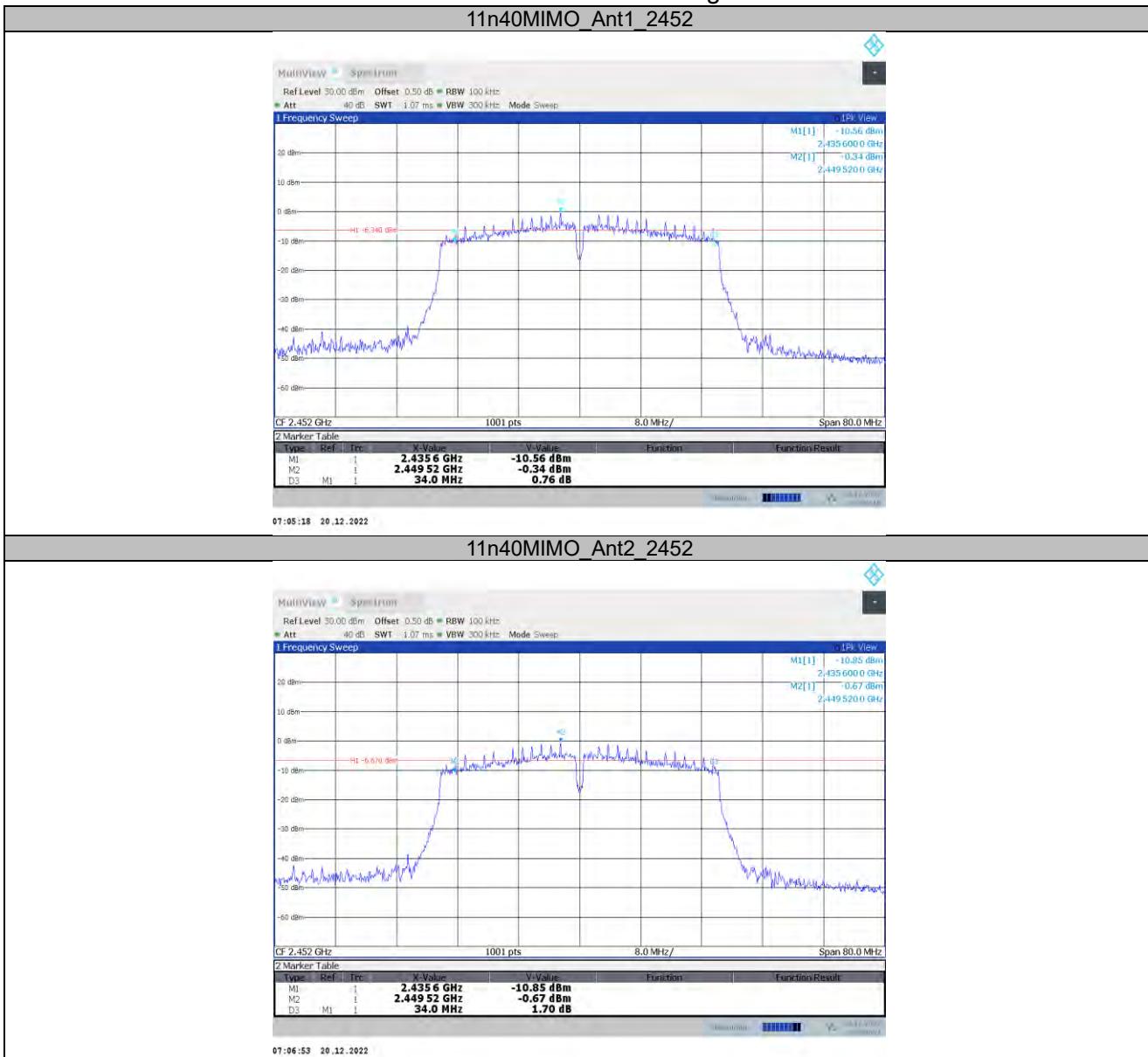
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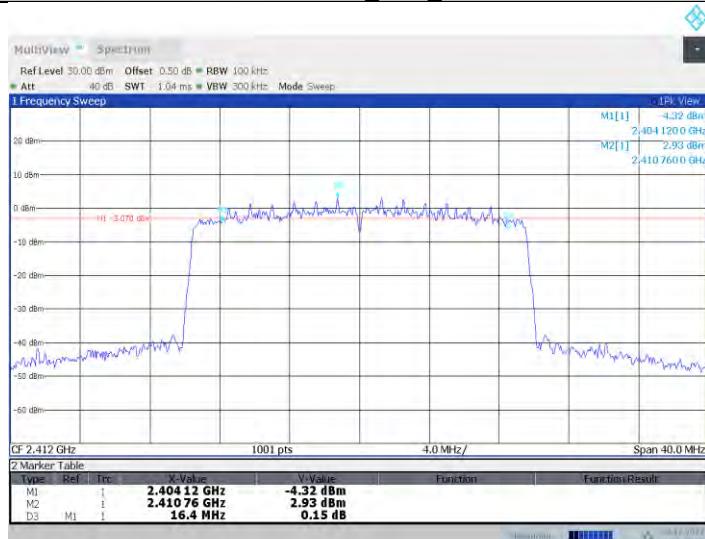
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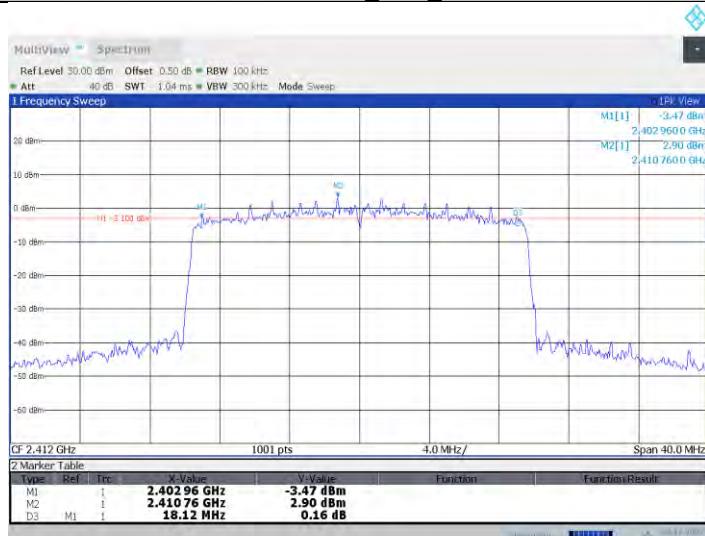
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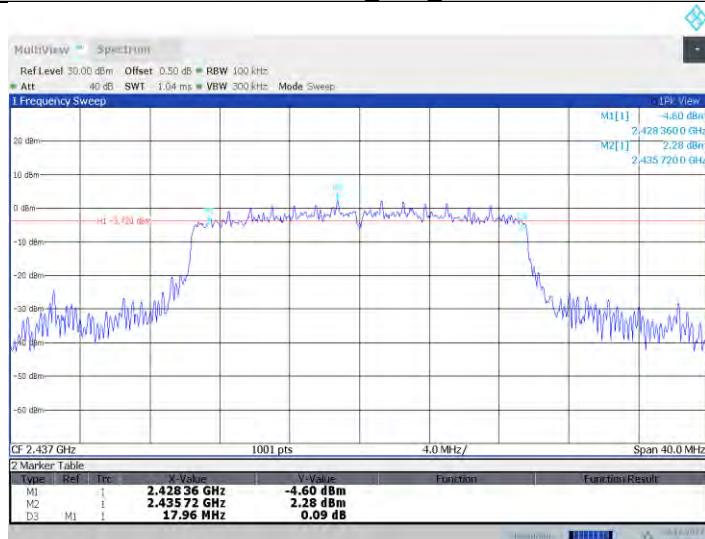
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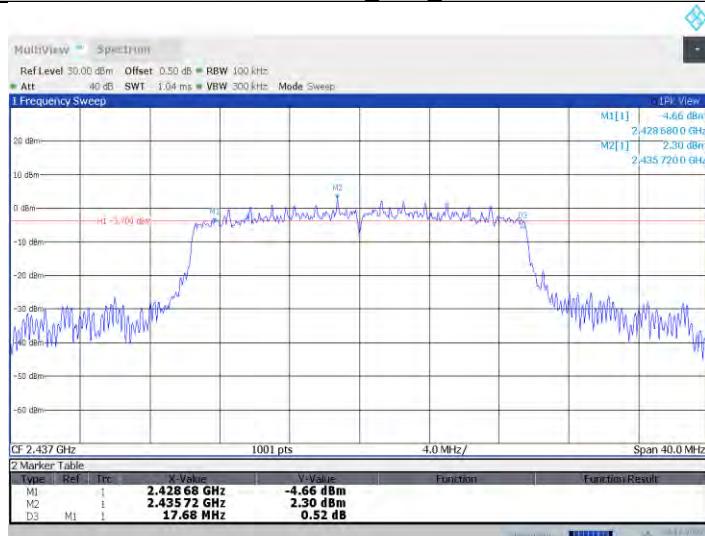
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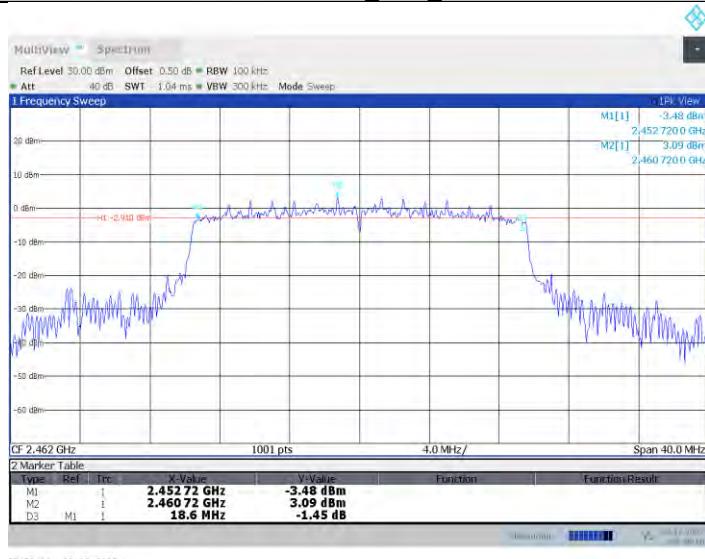
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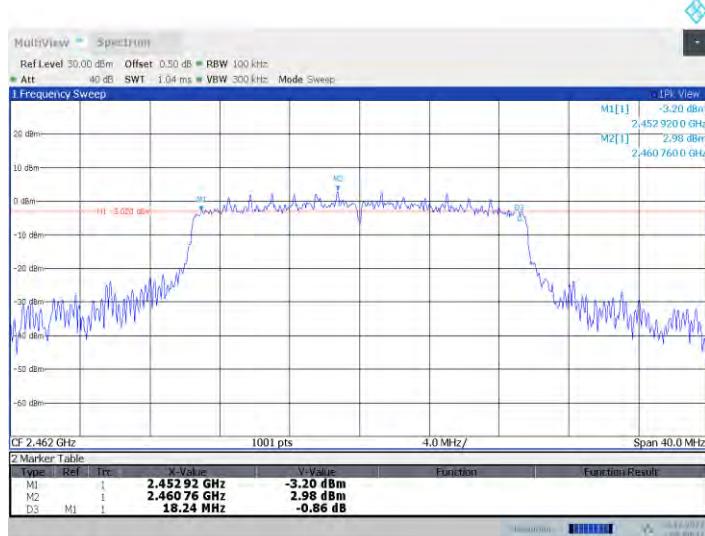
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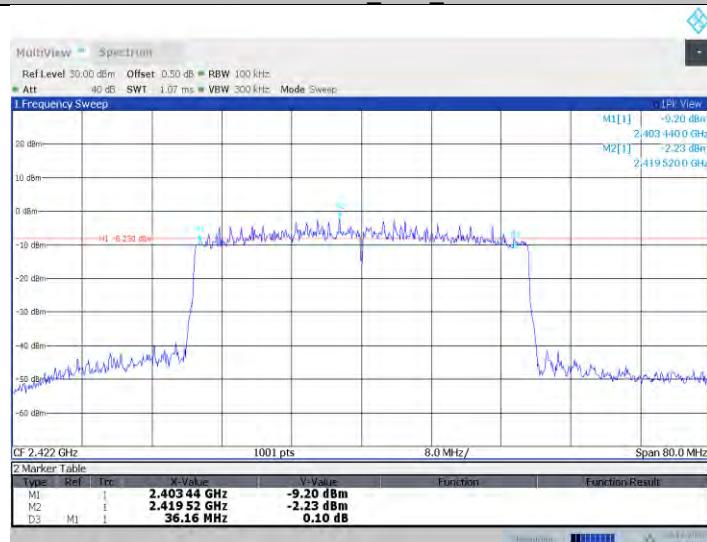
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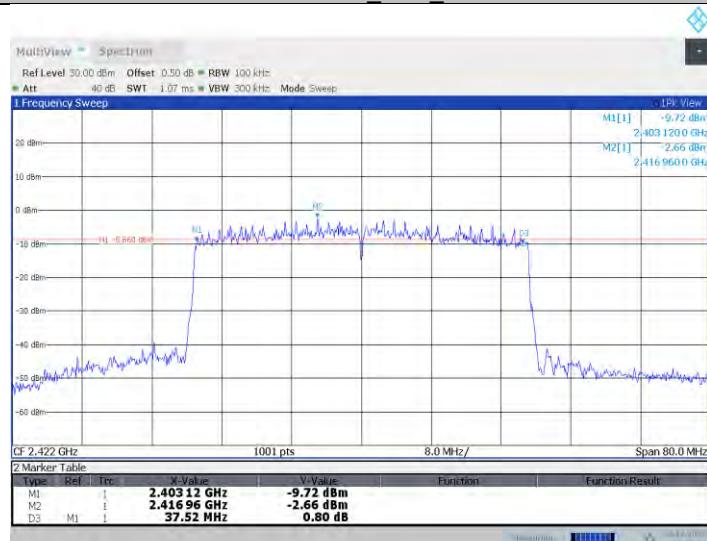
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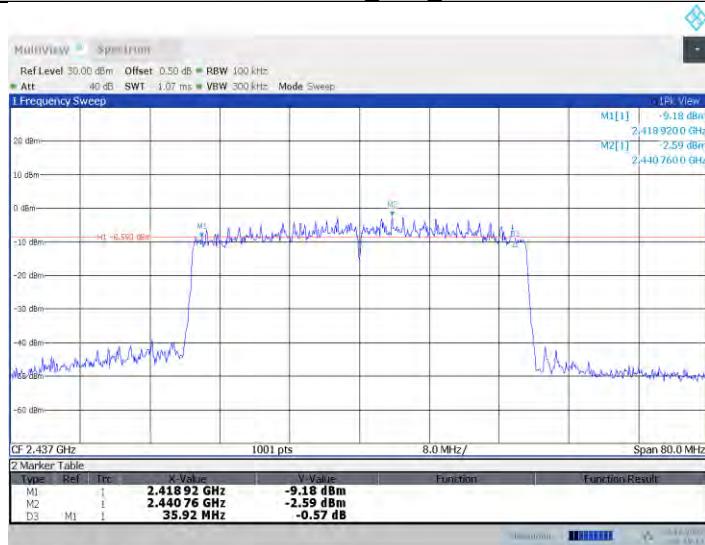
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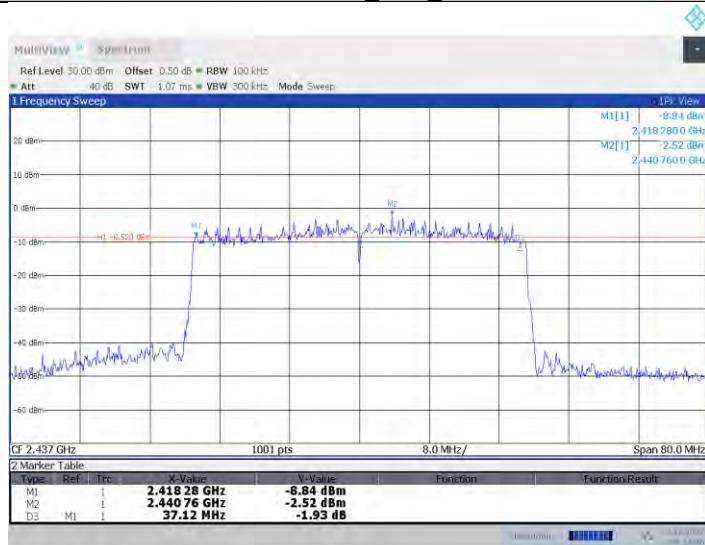
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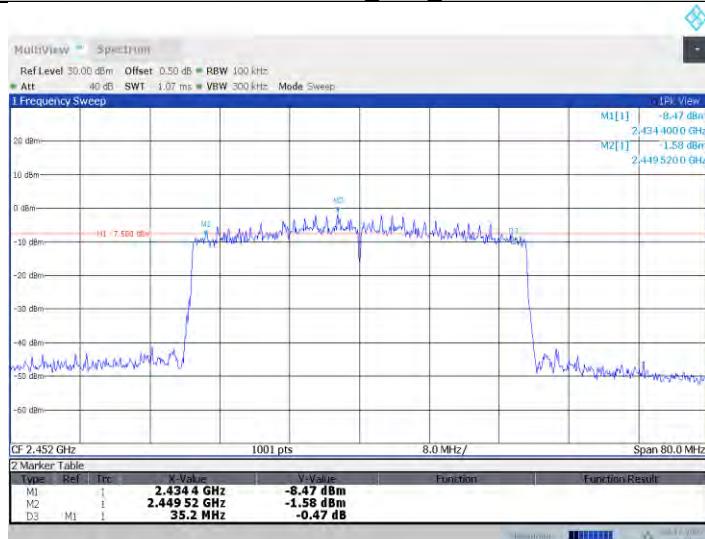
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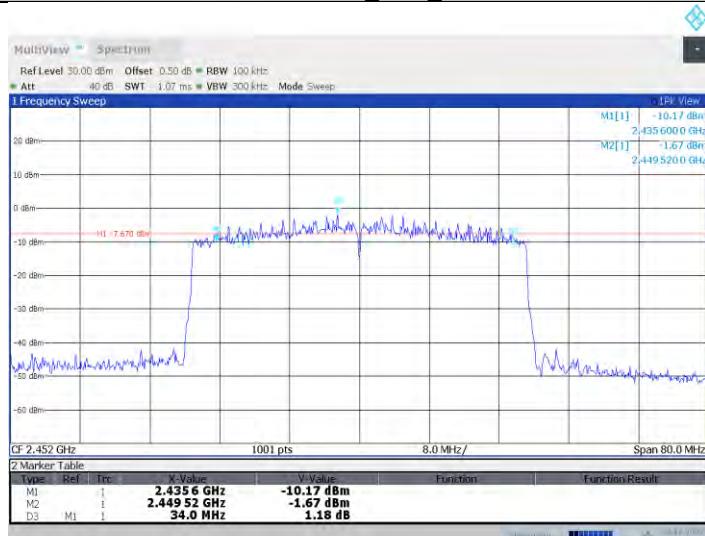
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	12.689	2405.665	2418.354	
		2437	12.805	2430.640	2443.445	
		2462	12.837	2455.548	2468.386	
11g	Ant1	2412	16.842	2403.561	2420.403	
		2437	16.909	2428.576	2445.484	
		2462	16.924	2453.501	2470.425	
11n20MIMO	Ant1	2412	17.763	2403.111	2420.875	
	Ant2	2412	17.683	2403.119	2420.802	
	Ant1	2437	17.906	2428.080	2445.986	
	Ant2	2437	17.786	2428.166	2445.952	
	Ant1	2462	17.896	2453.005	2470.900	
	Ant2	2462	17.818	2453.081	2470.899	
11n40MIMO	Ant1	2422	36.167	2403.918	2440.085	
	Ant2	2422	36.175	2403.923	2440.098	
	Ant1	2437	36.23	2418.958	2455.188	
	Ant2	2437	36.212	2418.950	2455.163	
	Ant1	2452	35.99	2434.058	2470.048	
	Ant2	2452	36.027	2434.047	2470.073	
11ax20MIMO	Ant1	2412	18.943	2402.512	2421.455	
	Ant2	2412	18.913	2402.537	2421.450	
	Ant1	2437	19.193	2427.457	2446.650	
	Ant2	2437	19.136	2427.447	2446.584	
	Ant1	2462	19.151	2452.409	2471.559	
	Ant2	2462	19.198	2452.355	2471.554	
11ax40MIMO	Ant1	2422	37.747	2403.175	2440.923	
	Ant2	2422	37.711	2403.189	2440.900	
	Ant1	2437	37.901	2418.083	2455.984	
	Ant2	2437	37.823	2418.063	2455.886	
	Ant1	2452	37.646	2433.162	2470.809	
	Ant2	2452	37.704	2433.164	2470.867	

Remark:

For WLAN 802.11b/g SISO mode, only select the antenna of power worst for test.



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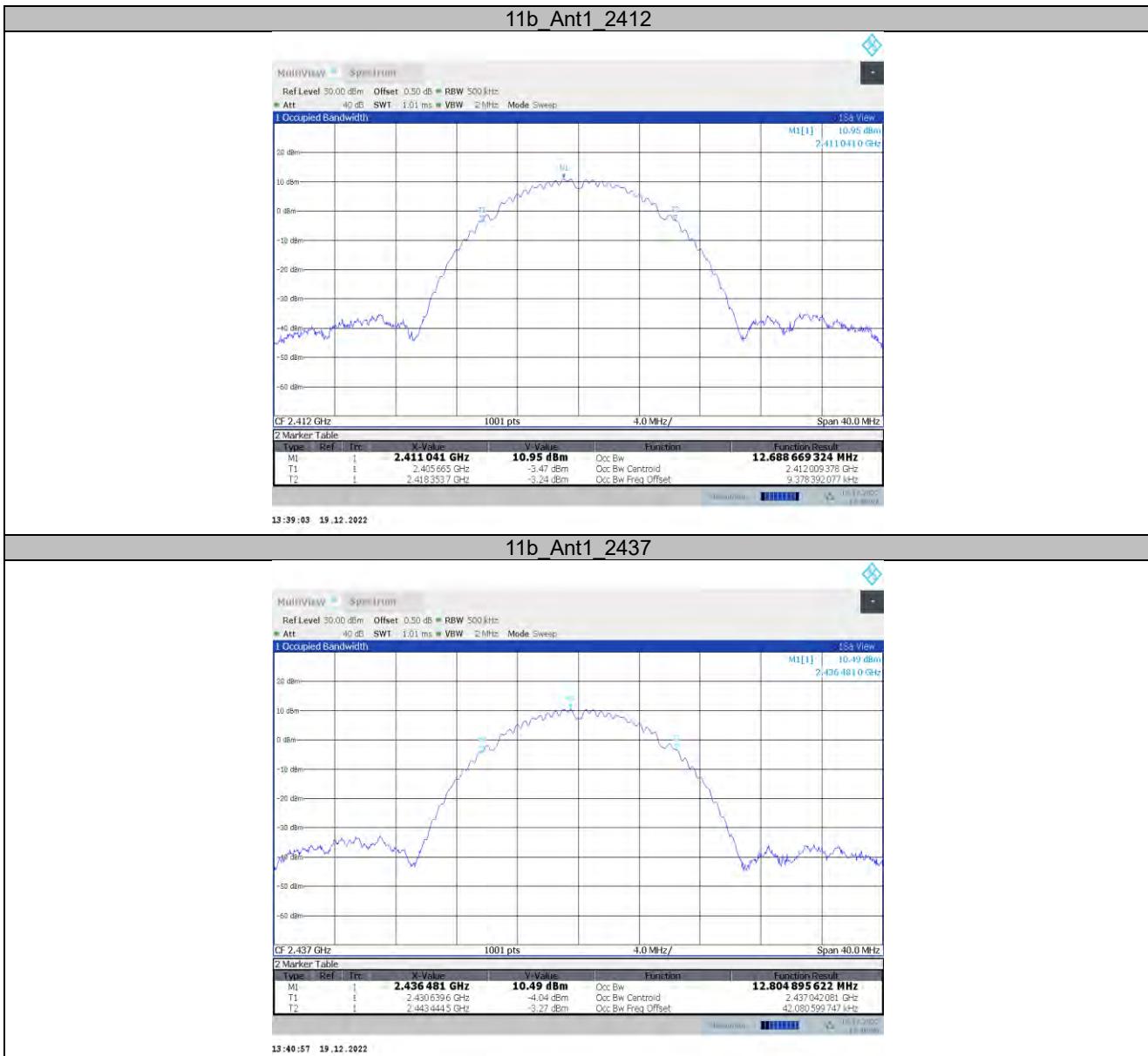
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Test Graphs



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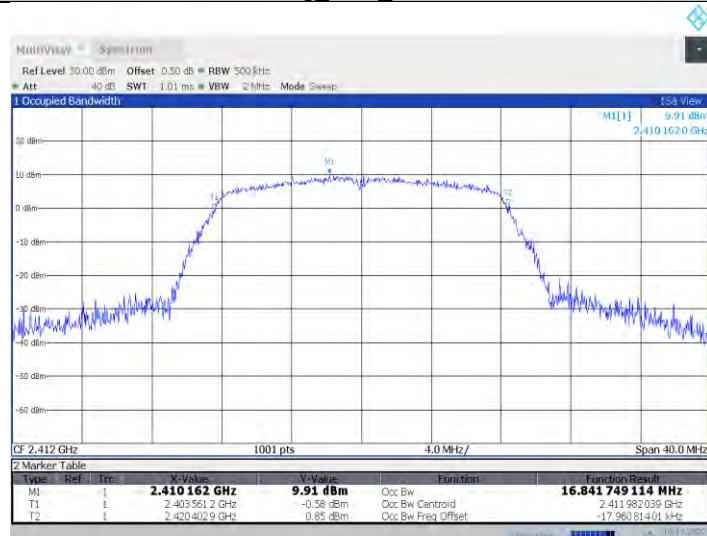
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11b_Ant1_2462



13:42:35 19.12.2022

11g_Ant1_2412



13:55:50 19.12.2022

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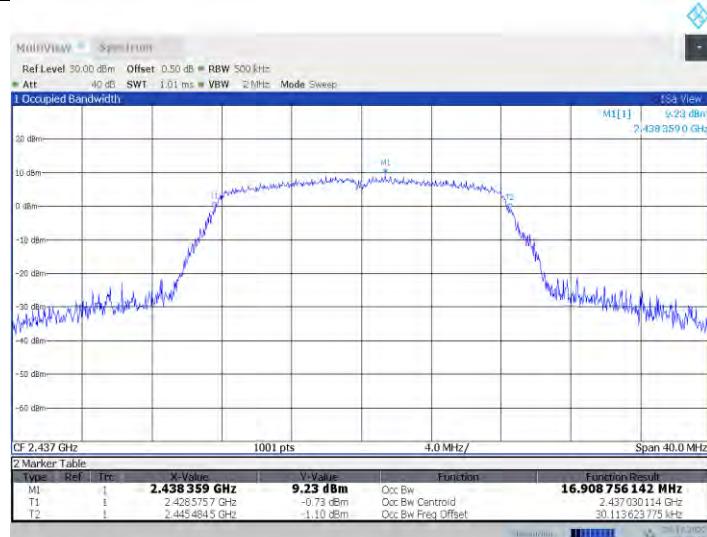
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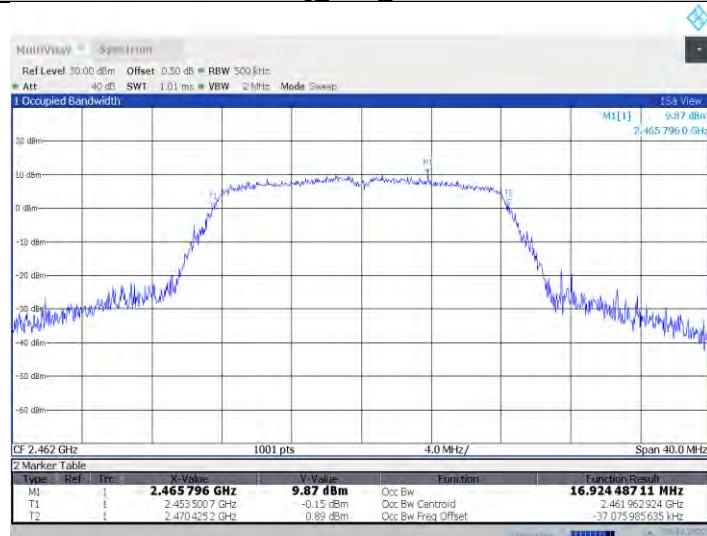
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11g_Ant1_2437



05:56:18 20.12.2022

11g_Ant1_2462



06:02:08 20.12.2022

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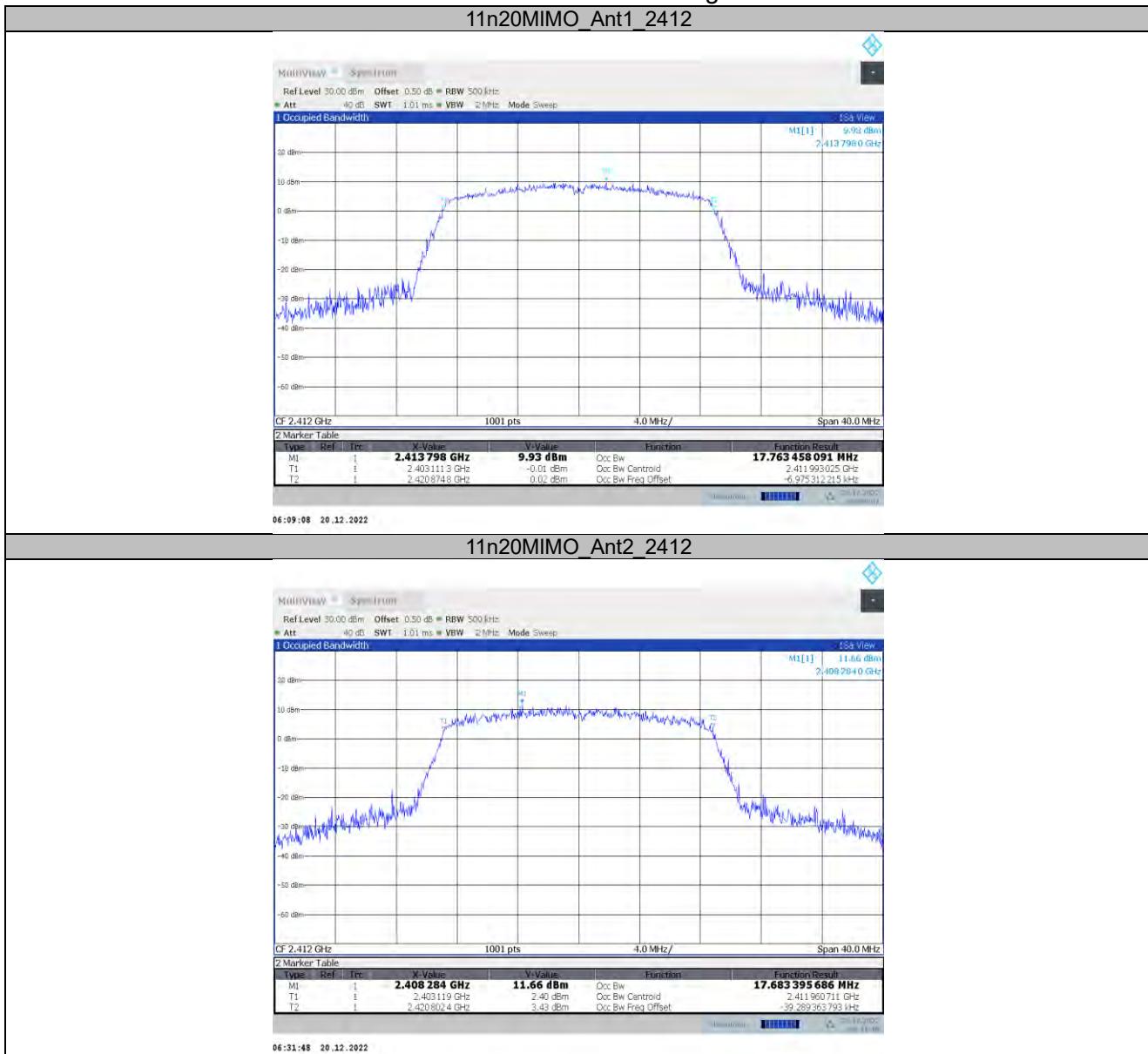


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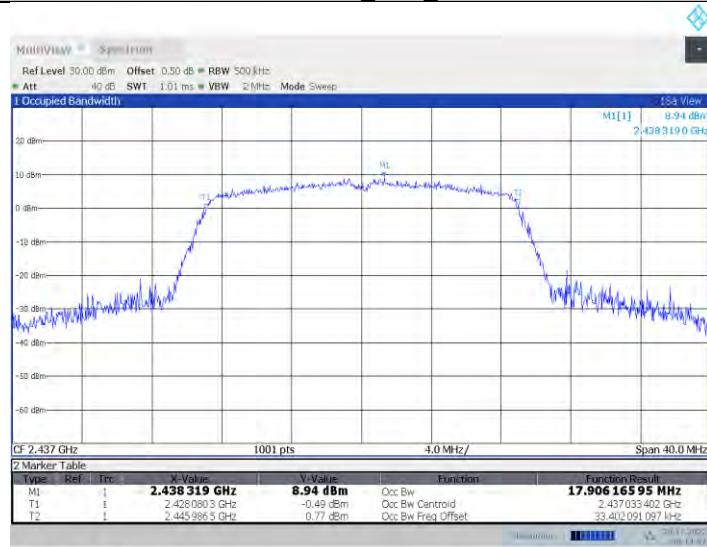
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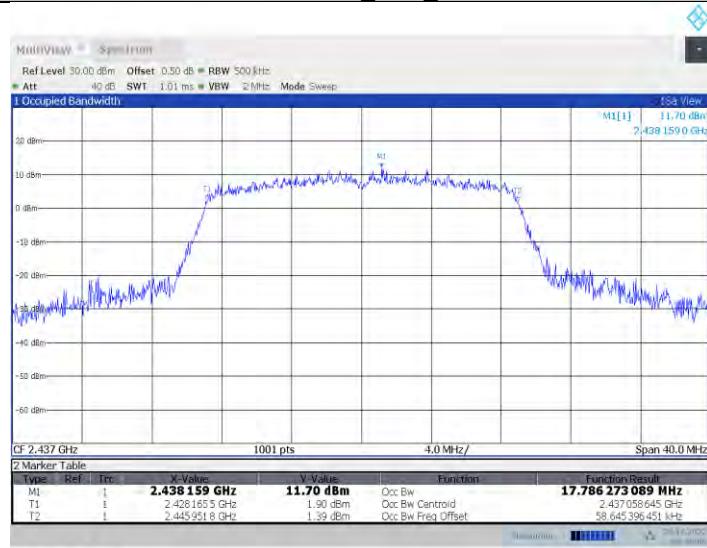
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11n20MIMO_Ant1_2437



06:14:57 20.12.2022

11n20MIMO_Ant2_2437



06:39:06 20.12.2022

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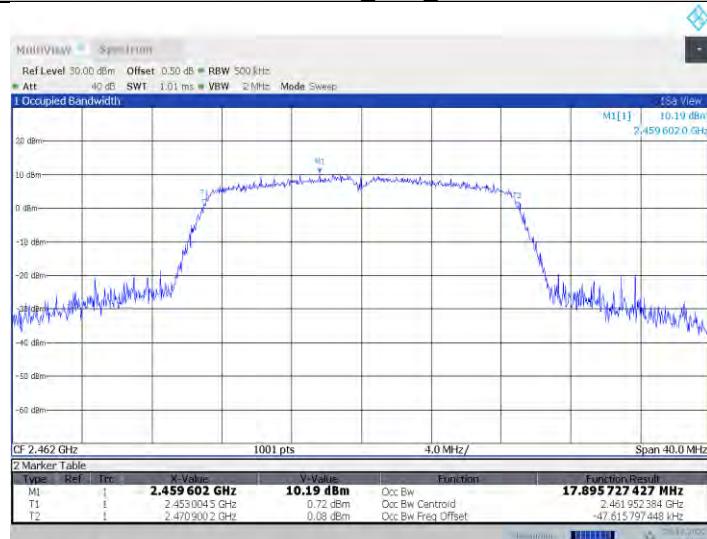
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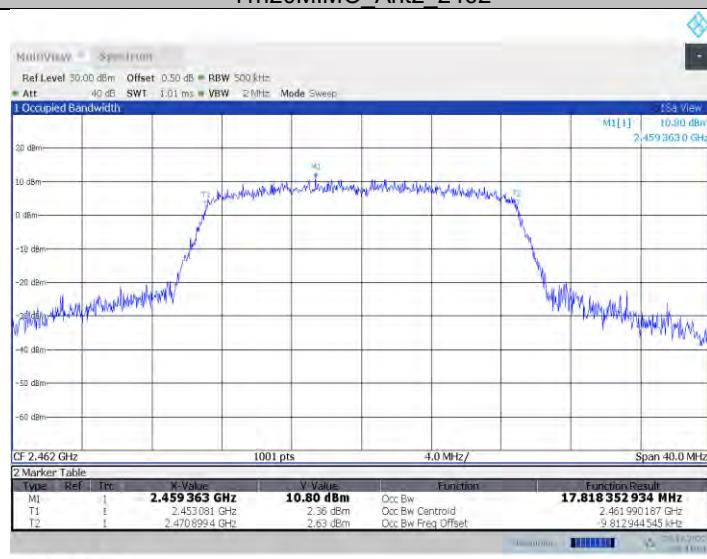
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11n20MIMO_Ant1_2462



11n20MIMO_Ant2_2462



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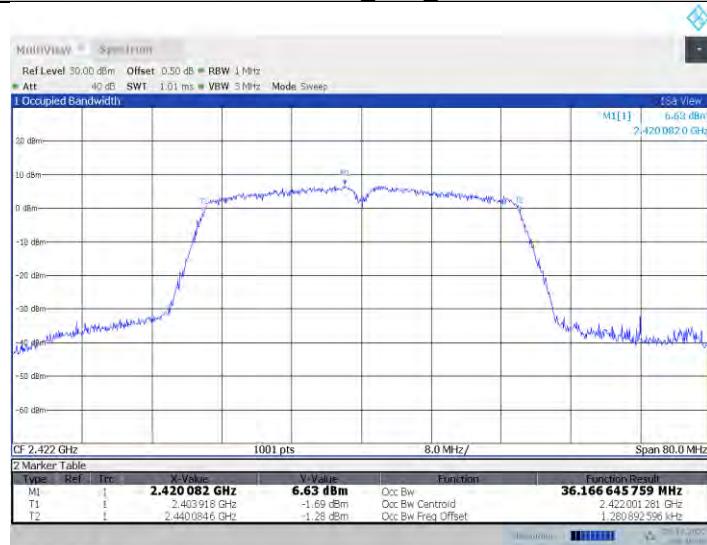
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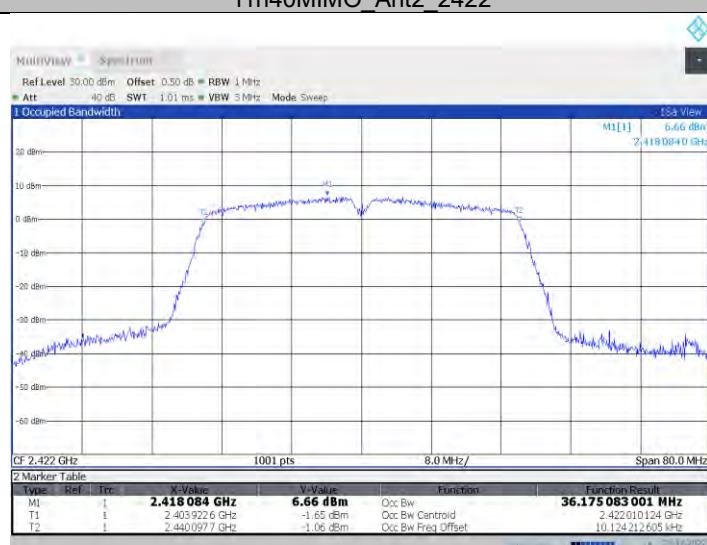
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11n40MIMO_Ant2_2422



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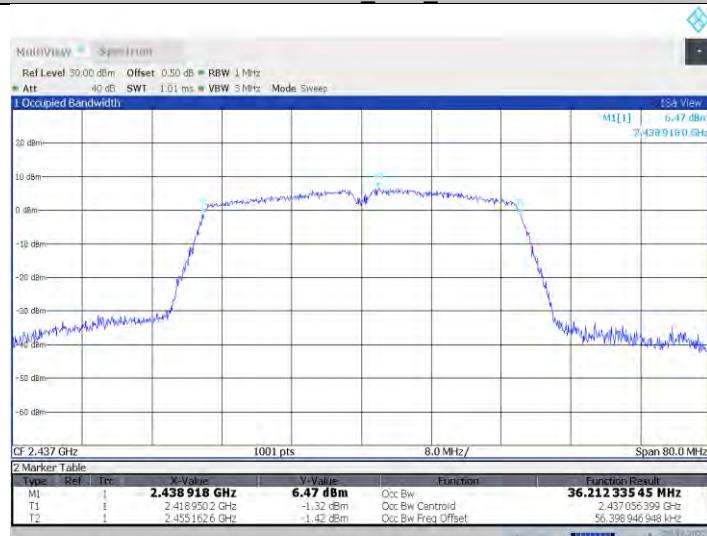
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11n40MIMO_Ant2_2437



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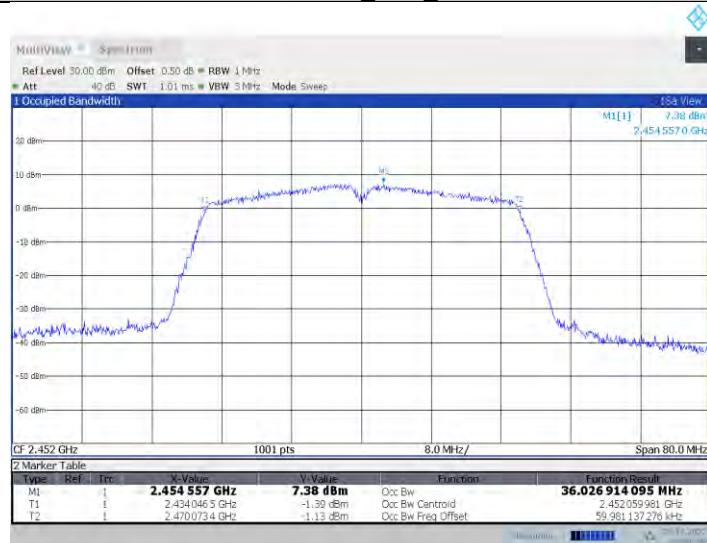
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11n40MIMO Ant2 2452



07:06:58 29.12.2022

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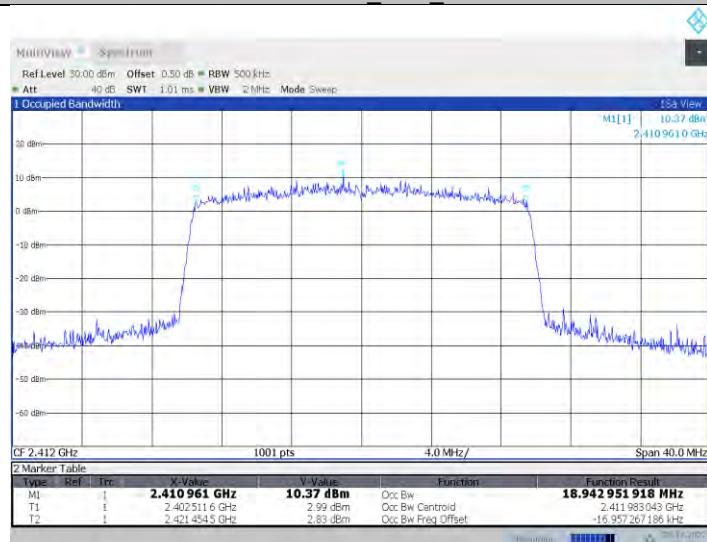
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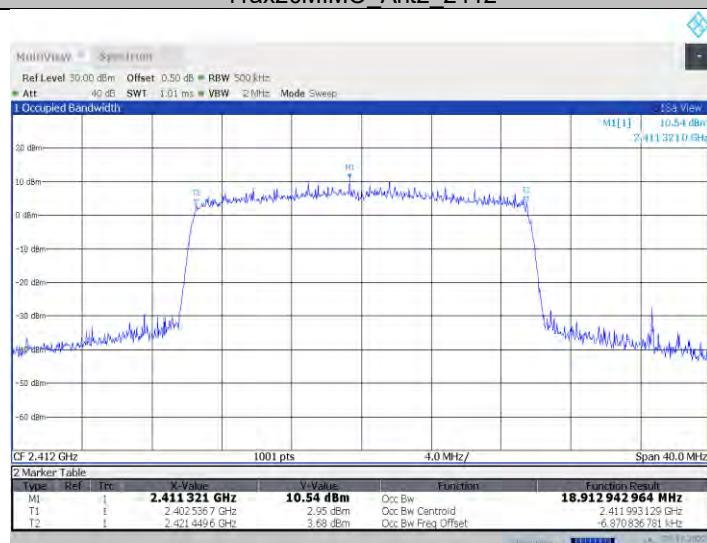
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11ax20MIMO_Ant1_2412



11ax20MIMO_Ant2_2412



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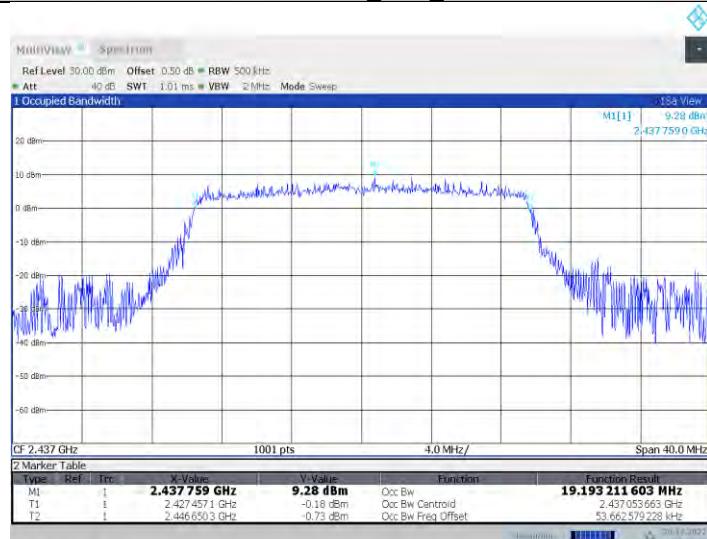
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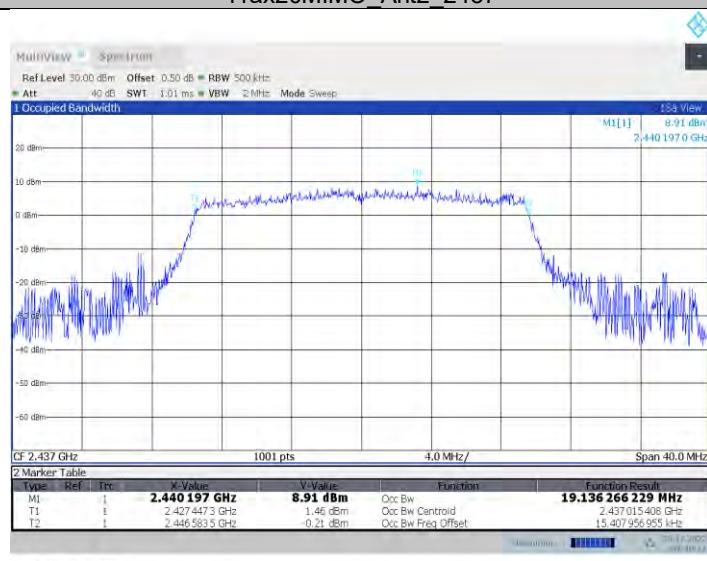
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11ax20MIMO_Ant1_2437



11ax20MIMO_Ant2_2437



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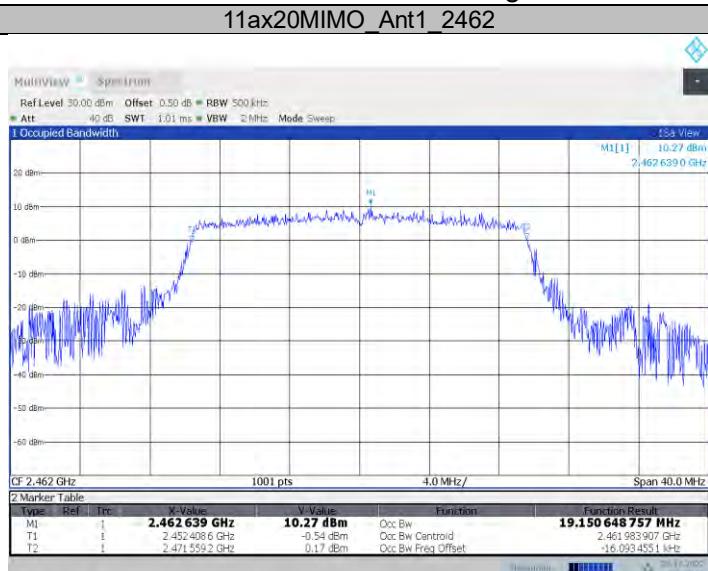
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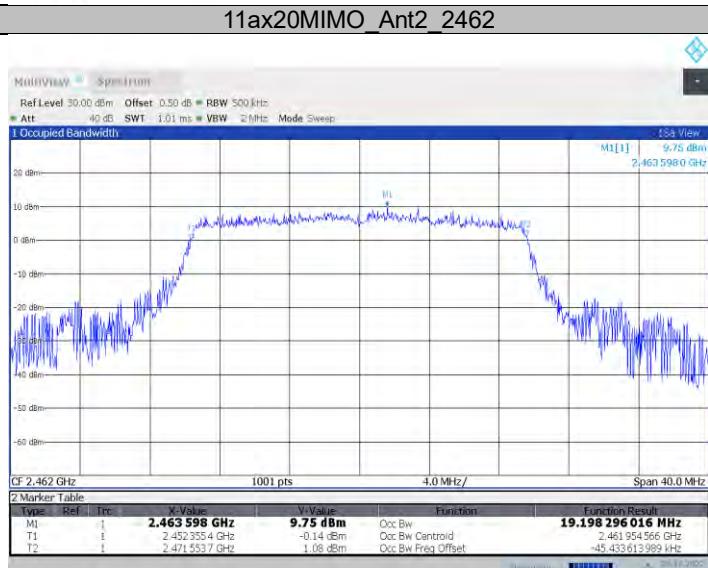
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07:59:17 29.12.2022



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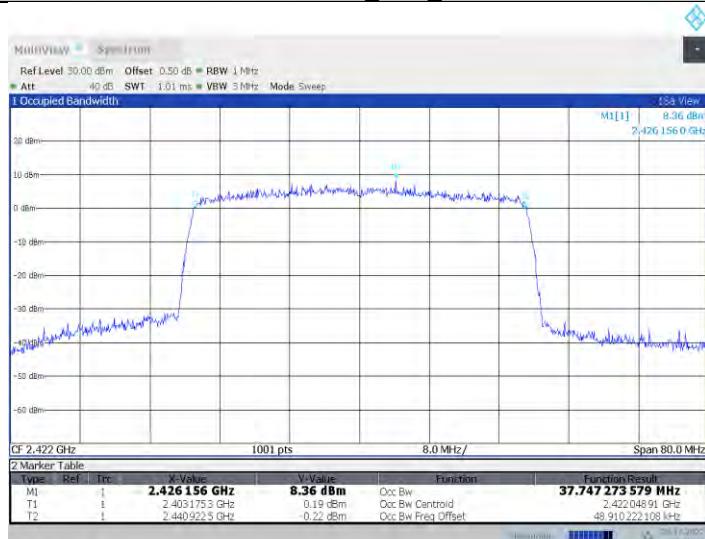
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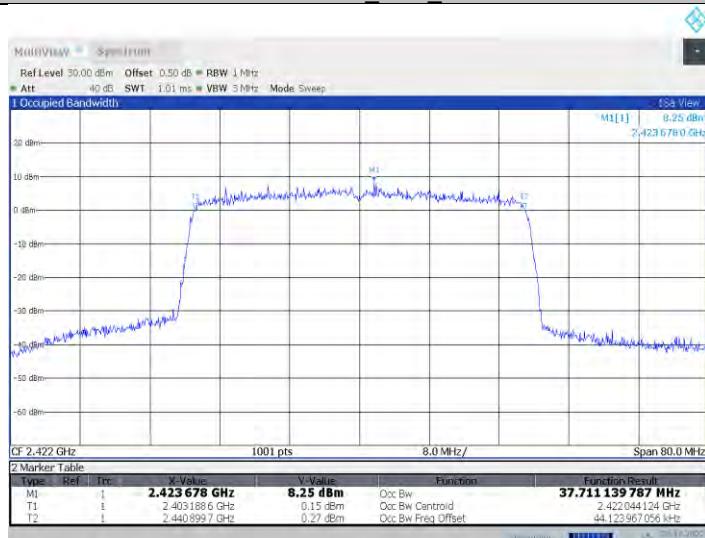
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11ax40MIMO_Ant1_2422



11ax40MIMO_Ant2_2422



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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	21.87	≤30.00	PASS
		2437	22.31	≤30.00	PASS
		2462	22.49	≤30.00	PASS
11g	Ant1	2412	24.42	≤30.00	PASS
		2437	24.41	≤30.00	PASS
		2462	24.47	≤30.00	PASS
11b	Ant2	2412	22.26	≤30.00	PASS
		2437	22.32	≤30.00	PASS
		2462	22.41	≤30.00	PASS
11g	Ant2	2412	24.32	≤30.00	PASS
		2437	24.28	≤30.00	PASS
		2462	24.17	≤30.00	PASS
11n20MIMO	Ant1	2412	24.42	≤30.00	PASS
	Ant2	2412	24.45	≤30.00	PASS
	total	2412	27.45	≤30.00	PASS
	Ant1	2437	24.44	≤30.00	PASS
	Ant2	2437	24.42	≤30.00	PASS
	total	2437	27.44	≤30.00	PASS
	Ant1	2462	24.47	≤30.00	PASS
	Ant2	2462	24.43	≤30.00	PASS
	total	2462	27.46	≤30.00	PASS
	Ant1	2422	22.63	≤30.00	PASS
11n40MIMO	Ant2	2422	22.98	≤30.00	PASS
	total	2422	25.82	≤30.00	PASS
	Ant1	2437	22.69	≤30.00	PASS
	Ant2	2437	22.91	≤30.00	PASS
	total	2437	25.81	≤30.00	PASS
	Ant1	2452	22.89	≤30.00	PASS
	Ant2	2452	22.84	≤30.00	PASS
	total	2452	25.88	≤30.00	PASS
	Ant1	2412	24.43	≤30.00	PASS
	Ant2	2412	24.36	≤30.00	PASS
11ax20MIMO	total	2412	27.41	≤30.00	PASS
	Ant1	2437	24.25	≤30.00	PASS
	Ant2	2437	24.21	≤30.00	PASS
	total	2437	27.24	≤30.00	PASS
	Ant1	2462	24.22	≤30.00	PASS
	Ant2	2462	24.26	≤30.00	PASS
	total	2462	27.25	≤30.00	PASS
	Ant1	2422	22.23	≤30.00	PASS
	Ant2	2422	22.87	≤30.00	PASS
	total	2422	25.57	≤30.00	PASS
11ax40MIMO	Ant1	2437	22.39	≤30.00	PASS
	Ant2	2437	22.64	≤30.00	PASS
	total	2437	25.53	≤30.00	PASS
	Ant1	2452	22.42	≤30.00	PASS
	Ant2	2452	22.68	≤30.00	PASS
	total	2452	25.56	≤30.00	PASS

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Test Result Peak for AX Part RU

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11ax20MIMO	Ant1	2412	26Tone	RU0	22.74	≤30.00	PASS
			52Tone	RU37	23.47	≤30.00	PASS
			106Tone	RU53	23.46	≤30.00	PASS
	Ant2	2412	26Tone	RU0	23.46	≤30.00	PASS
			52Tone	RU37	24.23	≤30.00	PASS
			106Tone	RU53	24.25	≤30.00	PASS
	total	2412	26Tone	RU0	26.13	≤30.00	PASS
			52Tone	RU37	26.88	≤30.00	PASS
			106Tone	RU53	26.88	≤30.00	PASS
	Ant1	2437	26Tone	RU4	23.97	≤30.00	PASS
			52Tone	RU38	23.18	≤30.00	PASS
			106Tone	RU53	23.53	≤30.00	PASS
	Ant2	2437	26Tone	RU4	23.91	≤30.00	PASS
			52Tone	RU38	22.86	≤30.00	PASS
			106Tone	RU53	23.56	≤30.00	PASS
	total	2437	26Tone	RU4	26.95	≤30.00	PASS
			52Tone	RU38	26.03	≤30.00	PASS
			106Tone	RU53	26.56	≤30.00	PASS
	Ant1	2462	26Tone	RU8	23.66	≤30.00	PASS
			52Tone	RU40	23.57	≤30.00	PASS
			106Tone	RU54	23.45	≤30.00	PASS
	Ant2	2462	26Tone	RU8	24.02	≤30.00	PASS
			52Tone	RU40	22.70	≤30.00	PASS
			106Tone	RU54	23.59	≤30.00	PASS
	total	2462	26Tone	RU8	26.85	≤30.00	PASS
			52Tone	RU40	26.17	≤30.00	PASS
			106Tone	RU54	26.53	≤30.00	PASS
11ax40MIMO	Ant1	2422	242Tone	RU61	22.49	≤30.00	PASS
	Ant2	2422	242Tone	RU61	22.27	≤30.00	PASS
	total	2422	242Tone	RU61	25.39	≤30.00	PASS
	Ant1	2437	242Tone	RU61	21.33	≤30.00	PASS
	Ant2	2437	242Tone	RU61	21.74	≤30.00	PASS
	total	2437	242Tone	RU61	24.55	≤30.00	PASS
	Ant1	2452	242Tone	RU62	21.99	≤30.00	PASS
	Ant2	2452	242Tone	RU62	22.34	≤30.00	PASS
	total	2452	242Tone	RU62	25.18	≤30.00	PASS

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Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-3.37	≤8.00	PASS
		2437	-4.13	≤8.00	PASS
		2462	-2.87	≤8.00	PASS
11g	Ant1	2412	-7.67	≤8.00	PASS
		2437	-8.71	≤8.00	PASS
		2462	-8.74	≤8.00	PASS
11n20MIMO	Ant1	2412	-8.54	≤8.00	PASS
	Ant2	2412	-7.71	≤8.00	PASS
	total	2412	-5.09	≤6.78	PASS
	Ant1	2437	-9.79	≤8.00	PASS
	Ant2	2437	-8.63	≤8.00	PASS
	total	2437	-6.16	≤6.78	PASS
	Ant1	2462	-8.44	≤8.00	PASS
	Ant2	2462	-8.43	≤8.00	PASS
	total	2462	-5.42	≤6.78	PASS
	Ant1	2422	-15.82	≤8.00	PASS
11n40MIMO	Ant2	2422	-16.5	≤8.00	PASS
	total	2422	-13.14	≤6.78	PASS
	Ant1	2437	-13.99	≤8.00	PASS
	Ant2	2437	-15.09	≤8.00	PASS
	total	2437	-11.49	≤6.78	PASS
	Ant1	2452	-15.42	≤8.00	PASS
	Ant2	2452	-14.78	≤8.00	PASS
	total	2452	-12.08	≤6.78	PASS
	Ant1	2412	-12.4	≤8.00	PASS
	Ant2	2412	-12.16	≤8.00	PASS
11ax20MIMO	total	2412	-9.27	≤6.78	PASS
	Ant1	2437	-11.77	≤8.00	PASS
	Ant2	2437	-11.6	≤8.00	PASS
	total	2437	-8.67	≤6.78	PASS
	Ant1	2462	-11.89	≤8.00	PASS
	Ant2	2462	-10.13	≤8.00	PASS
	total	2462	-7.91	≤6.78	PASS
	Ant1	2422	-17.7	≤8.00	PASS
11ax40MIMO	Ant2	2422	-18.47	≤8.00	PASS
	total	2422	-15.06	≤6.78	PASS
	Ant1	2437	-17.73	≤8.00	PASS
	Ant2	2437	-17.9	≤8.00	PASS
	total	2437	-14.80	≤6.78	PASS
	Ant1	2452	-17.13	≤8.00	PASS
	Ant2	2452	-16.86	≤8.00	PASS
	total	2452	-13.98	≤6.78	PASS

Remark:

For WLAN 802.11b/g SISO mode, only select the antenna of power worst for test.



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Test Result for AX Part RU

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11ax20MIMO	Ant1	2412	26Tone	RU0	-4.45	≤8.00	PASS
			52Tone	RU37	-7.6	≤8.00	PASS
			106Tone	RU53	-7.55	≤8.00	PASS
	Ant2	2412	26Tone	RU0	-2.52	≤8.00	PASS
			52Tone	RU37	-5.83	≤8.00	PASS
			106Tone	RU53	-8.16	≤8.00	PASS
	total	2412	26Tone	RU0	-0.37	≤6.78	PASS
			52Tone	RU37	-3.62	≤6.78	PASS
			106Tone	RU53	-4.83	≤6.78	PASS
	Ant1	2437	26Tone	RU4	-4.04	≤8.00	PASS
			52Tone	RU38	-6.58	≤8.00	PASS
			106Tone	RU53	-8.14	≤8.00	PASS
	Ant2	2437	26Tone	RU4	-3.92	≤8.00	PASS
			52Tone	RU38	-6.24	≤8.00	PASS
			106Tone	RU53	-9.5	≤8.00	PASS
	total	2437	26Tone	RU4	-0.97	≤6.78	PASS
			52Tone	RU38	-3.40	≤6.78	PASS
			106Tone	RU53	-5.76	≤6.78	PASS
	Ant1	2462	26Tone	RU8	-3.81	≤8.00	PASS
			52Tone	RU40	-6.87	≤8.00	PASS
			106Tone	RU54	-9.34	≤8.00	PASS
	Ant2	2462	26Tone	RU8	-2.59	≤8.00	PASS
			52Tone	RU40	-6.13	≤8.00	PASS
			106Tone	RU54	-9.35	≤8.00	PASS
	total	2462	26Tone	RU8	-0.15	≤6.78	PASS
			52Tone	RU40	-3.47	≤6.78	PASS
			106Tone	RU54	-6.33	≤6.78	PASS
11ax40MIMO	Ant1	2422	242Tone	RU61	-14.59	≤8.00	PASS
	Ant2	2422	242Tone	RU61	-15.53	≤8.00	PASS
	total	2422	242Tone	RU61	-12.02	≤6.78	PASS
	Ant1	2437	242Tone	RU61	-15.77	≤8.00	PASS
	Ant2	2437	242Tone	RU61	-13.86	≤8.00	PASS
	total	2437	242Tone	RU61	-11.70	≤6.78	PASS
	Ant1	2452	242Tone	RU62	-15.07	≤8.00	PASS
	Ant2	2452	242Tone	RU62	-13.55	≤8.00	PASS
	total	2452	242Tone	RU62	-11.23	≤6.78	PASS

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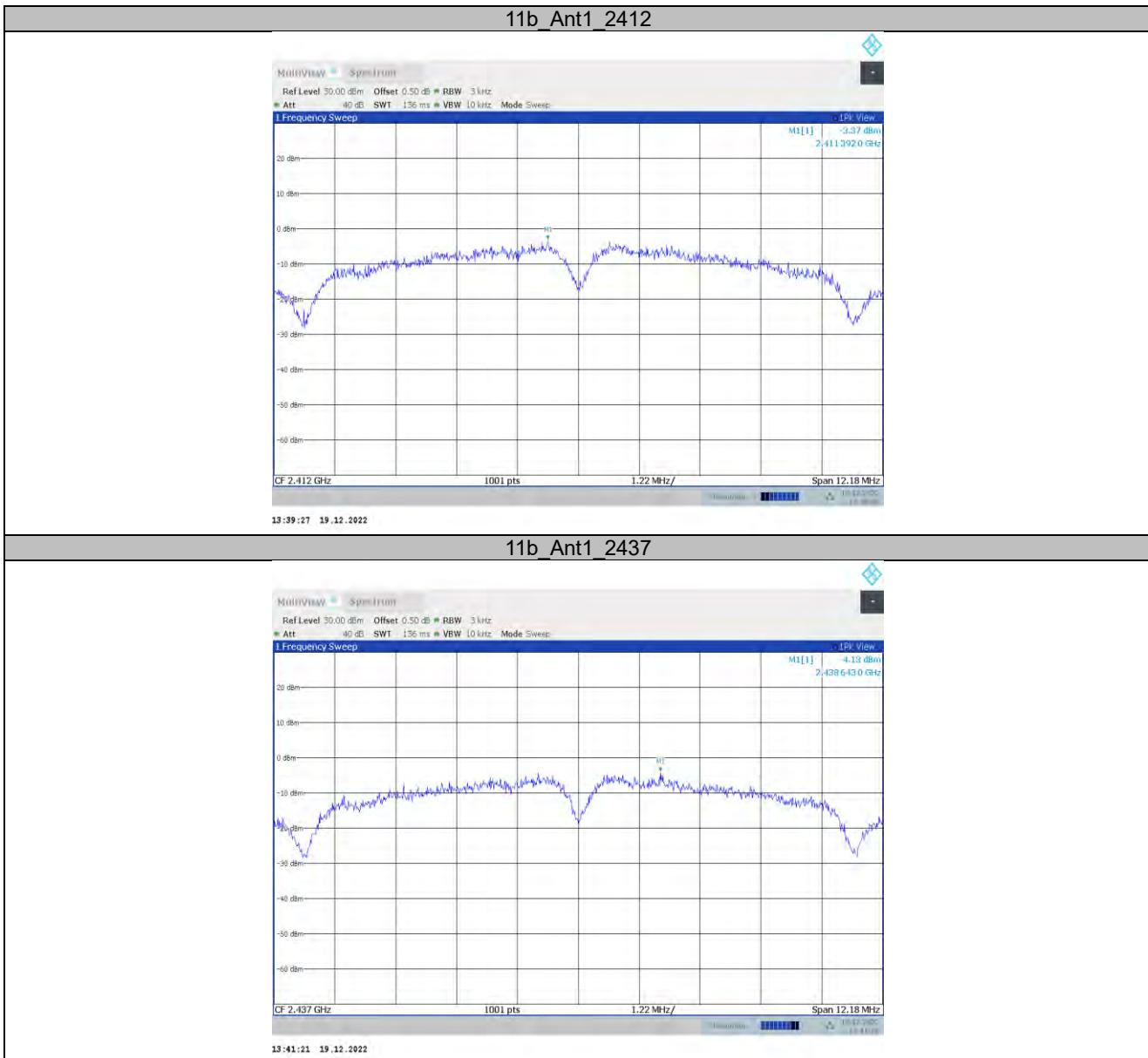
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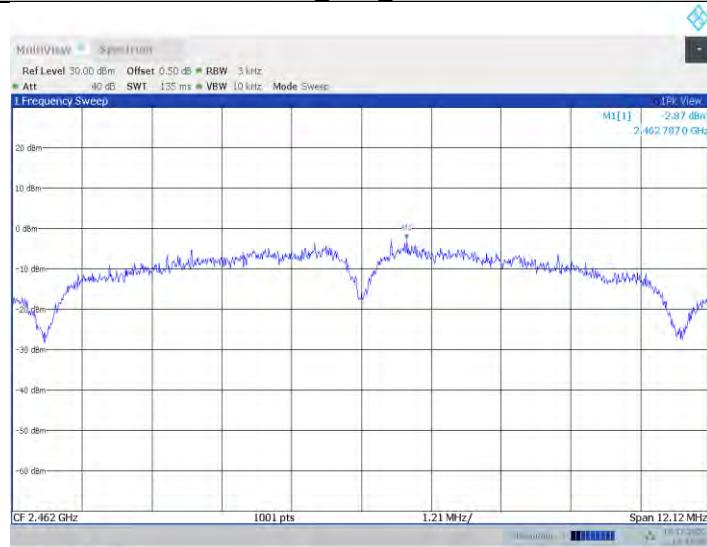
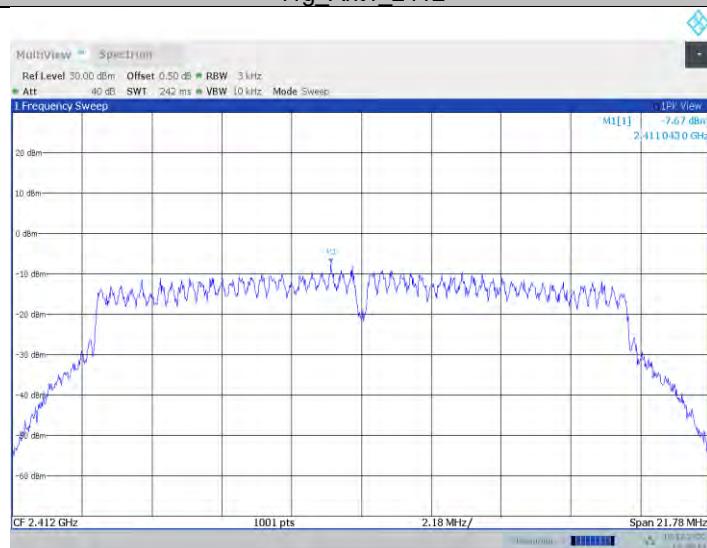
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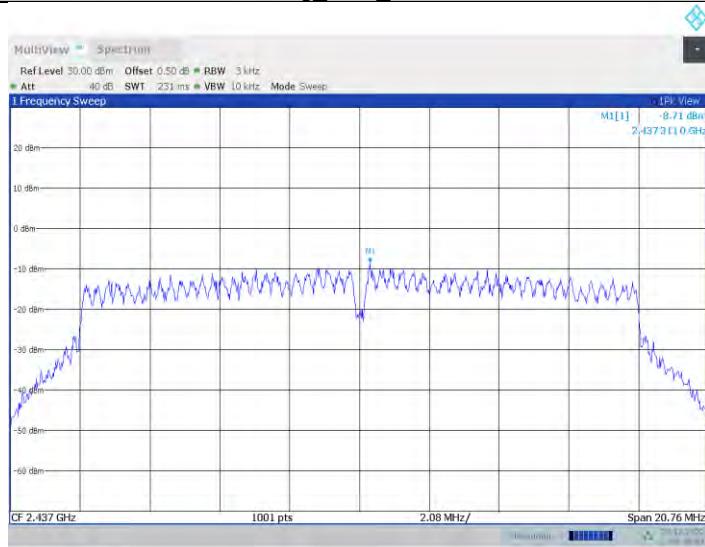
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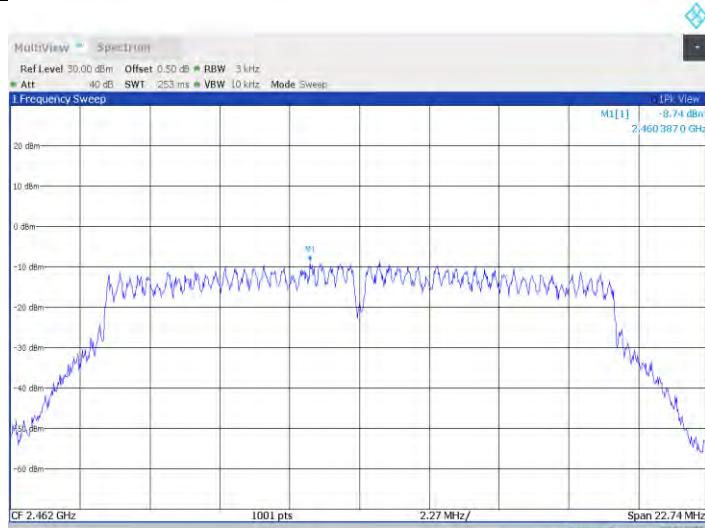
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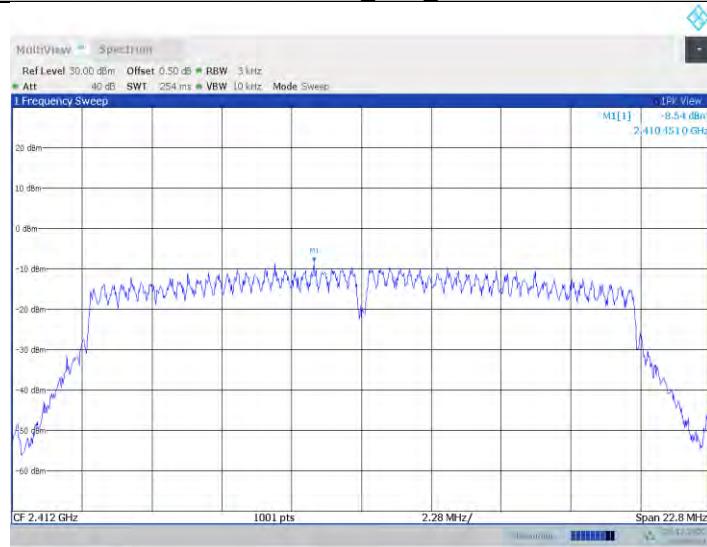
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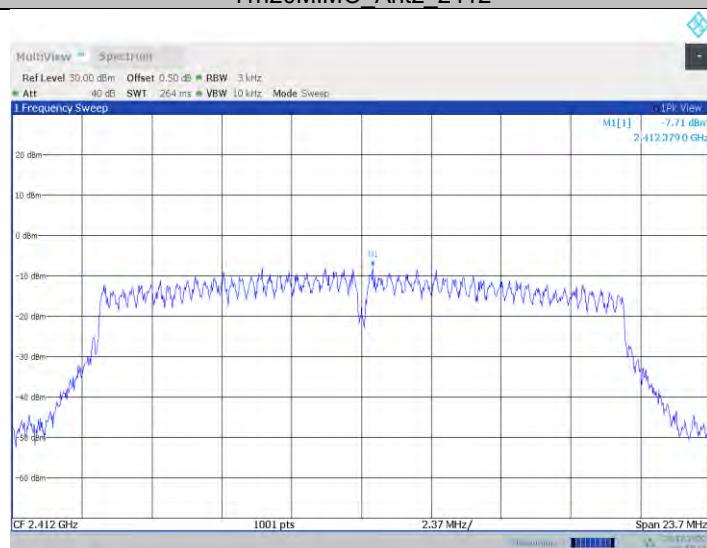
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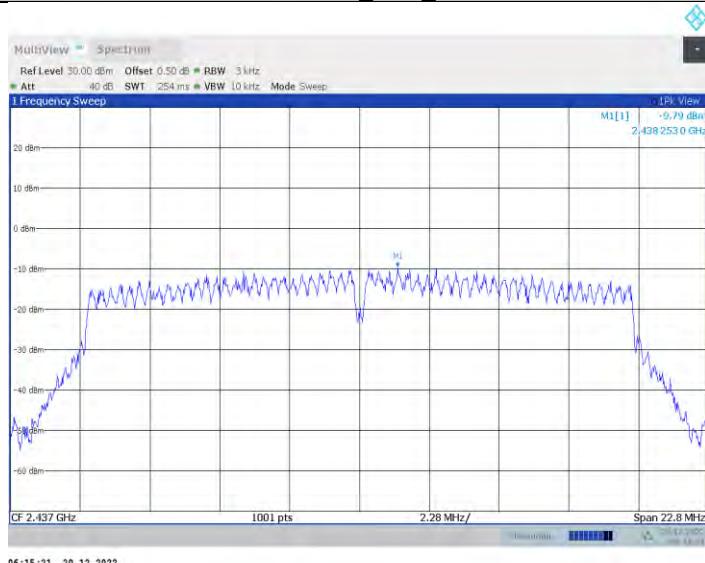
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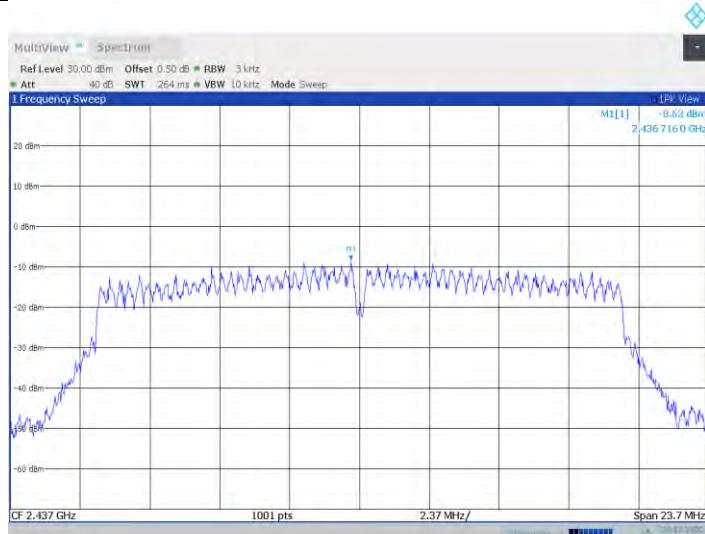
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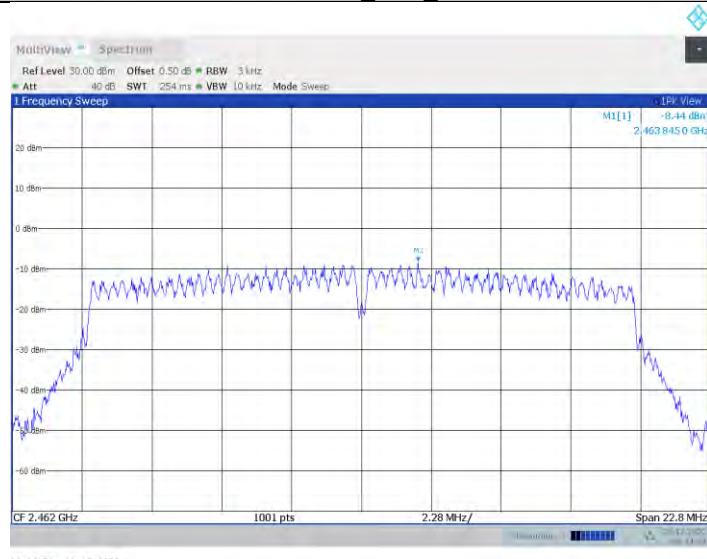
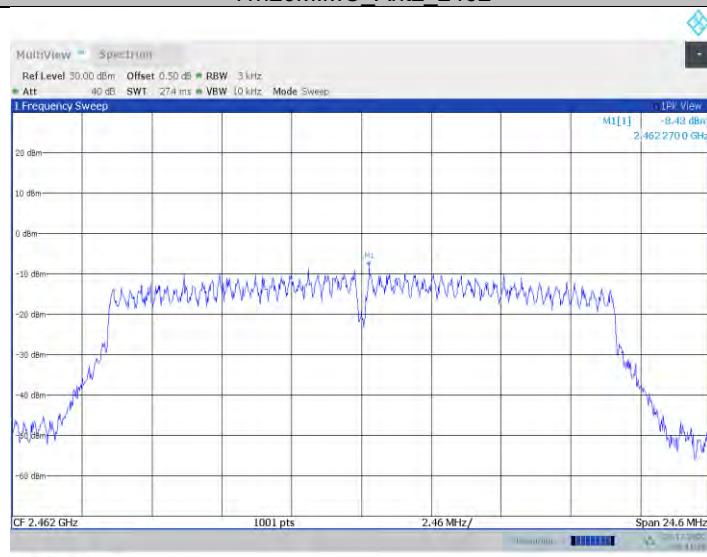
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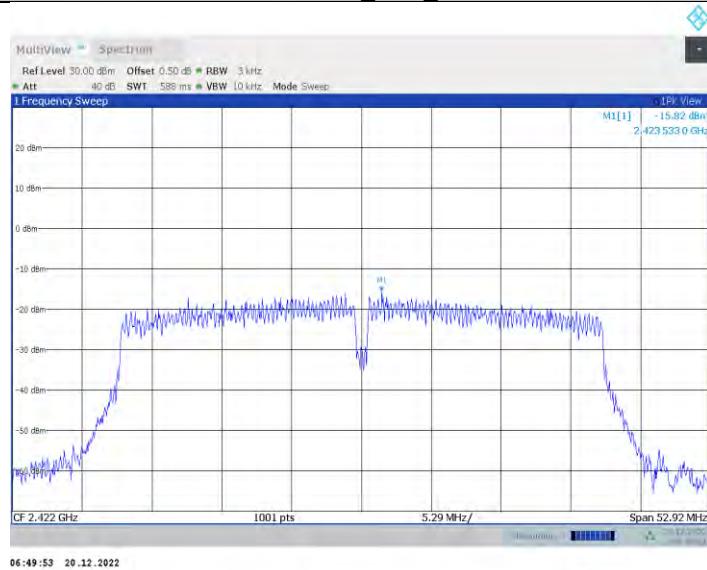
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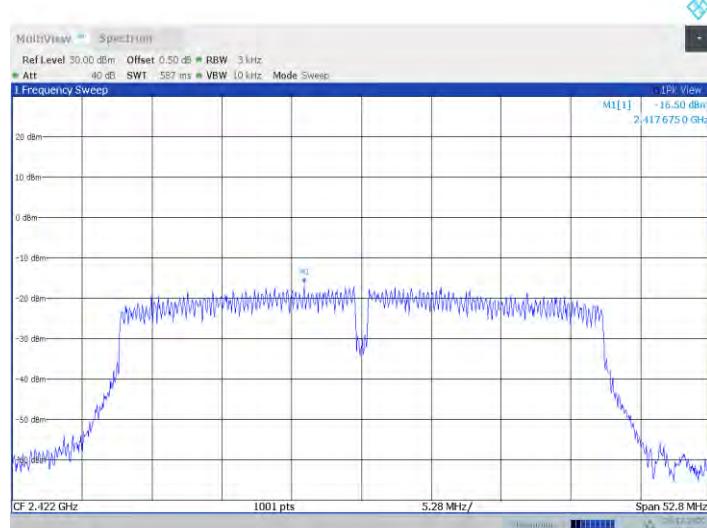
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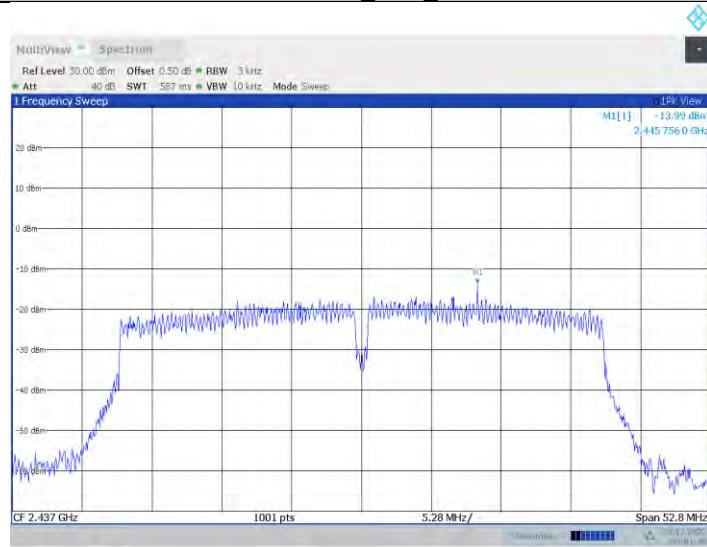
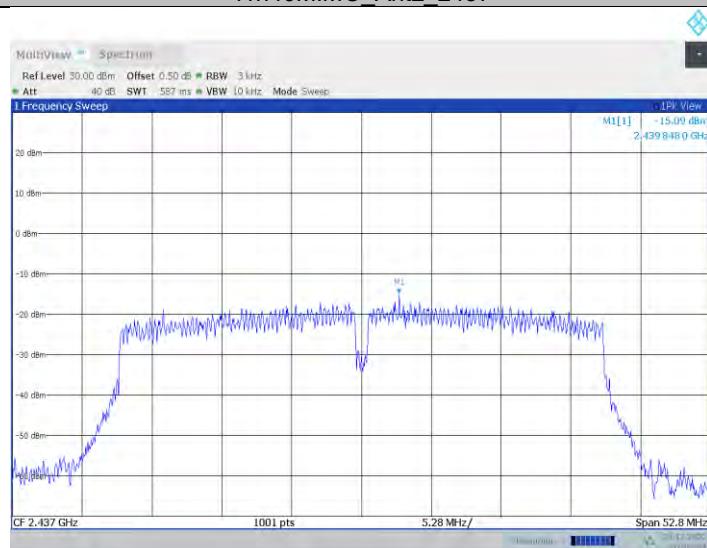
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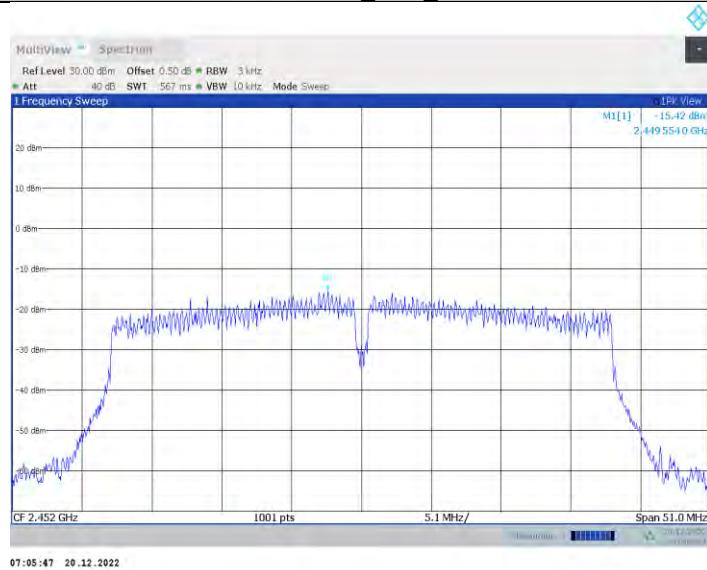
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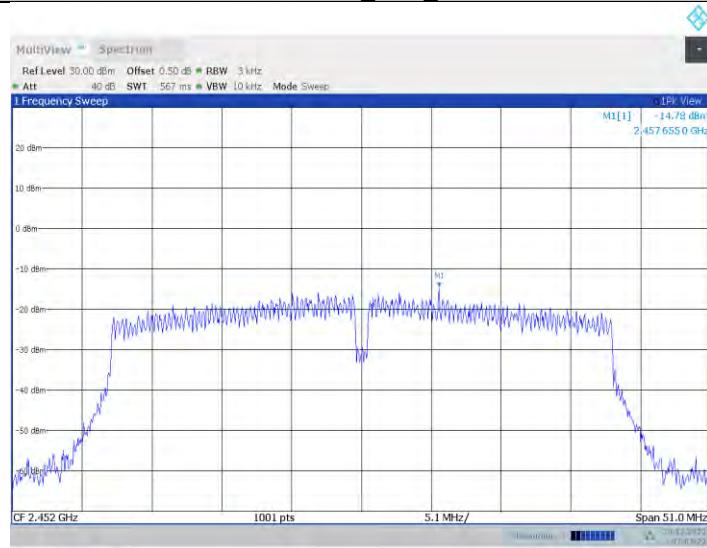
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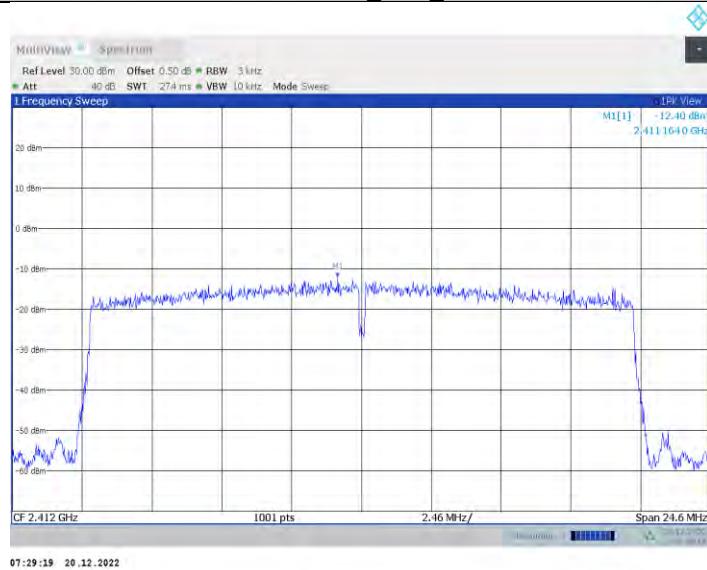
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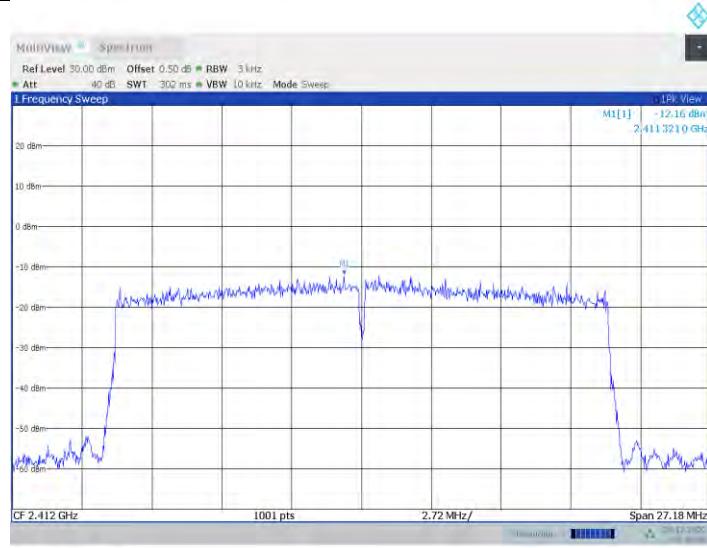
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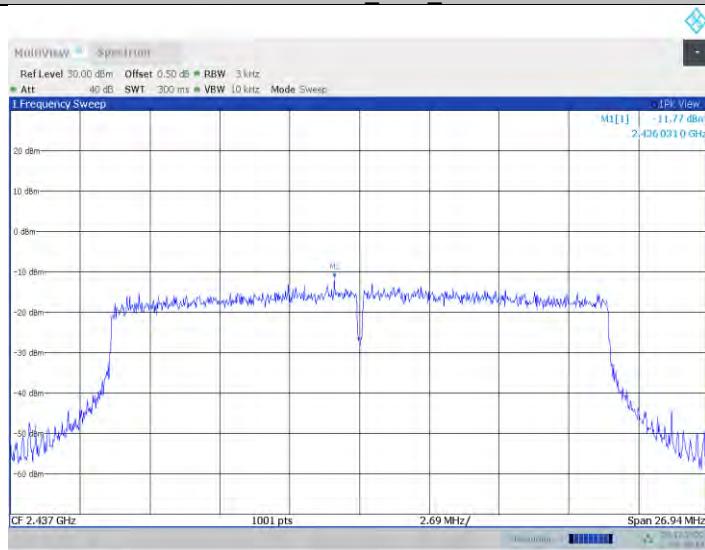
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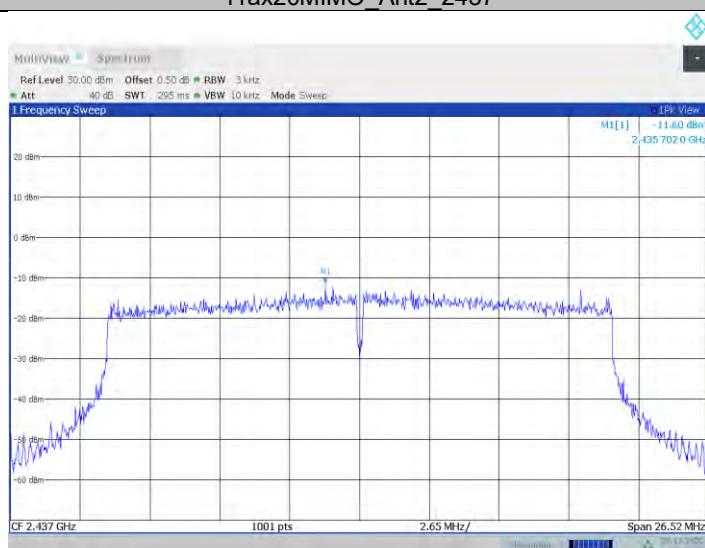
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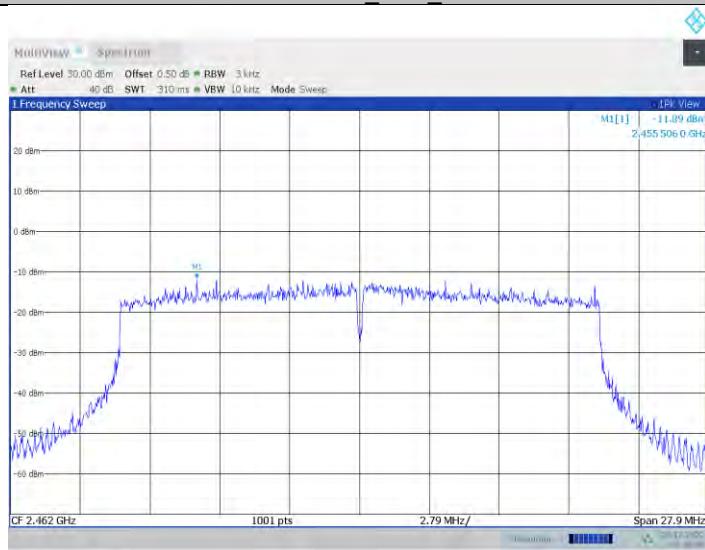
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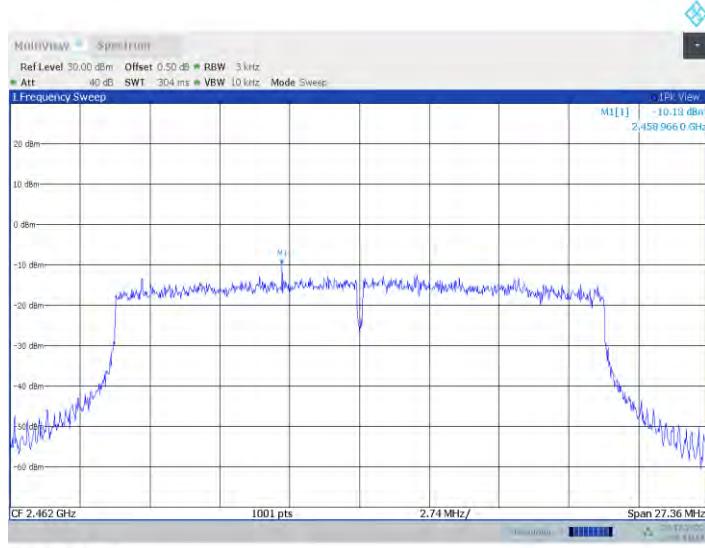
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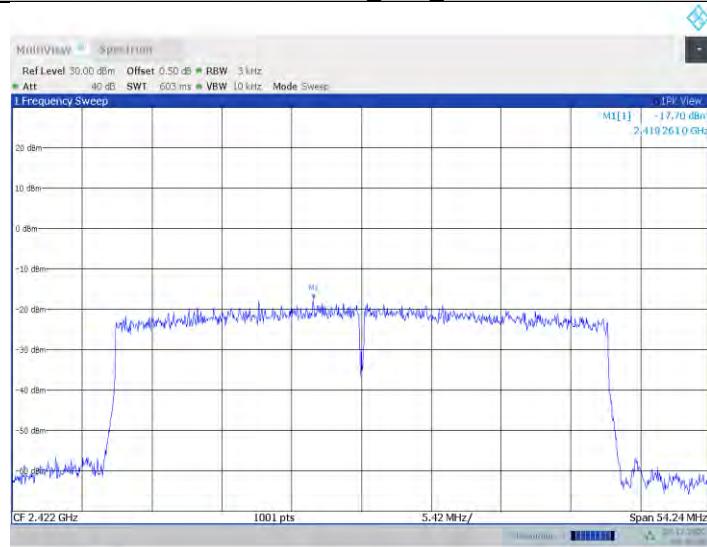
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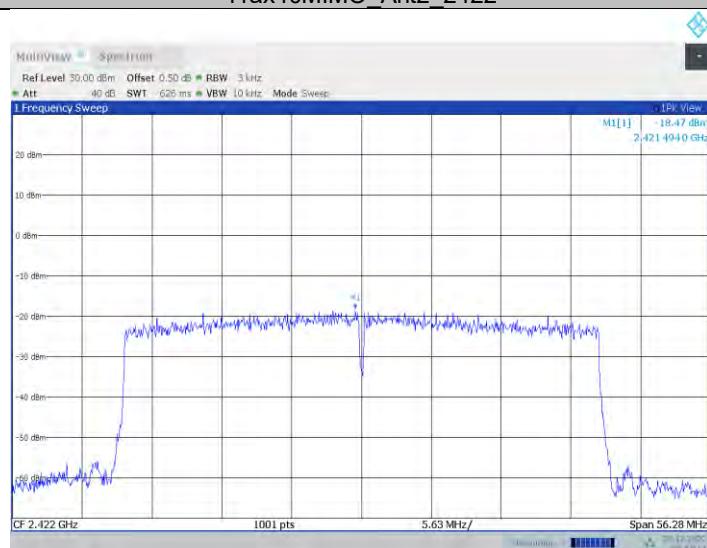
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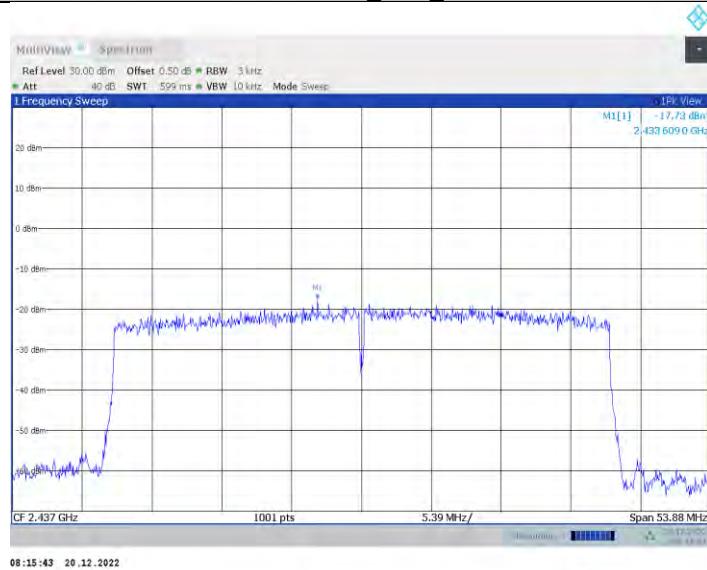
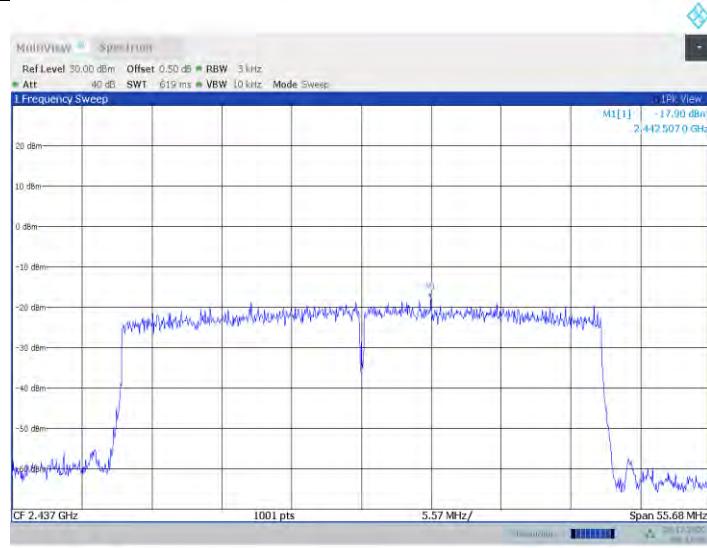
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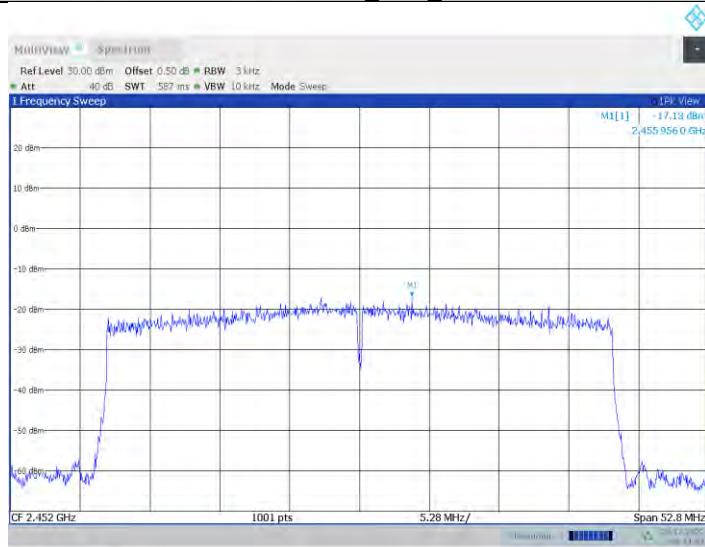
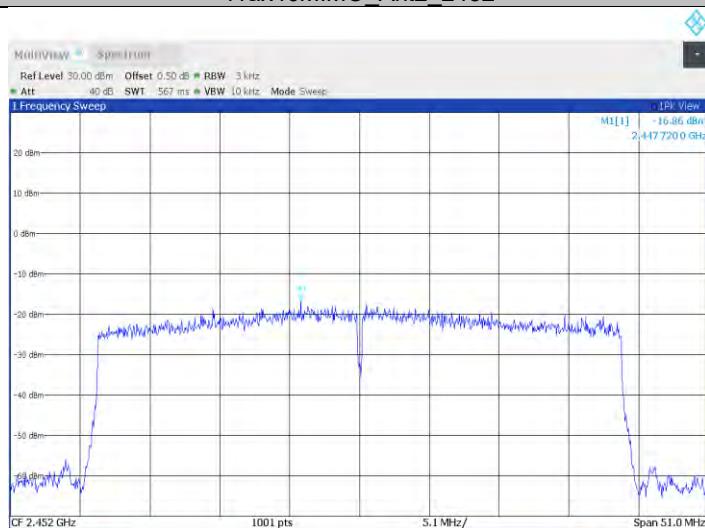
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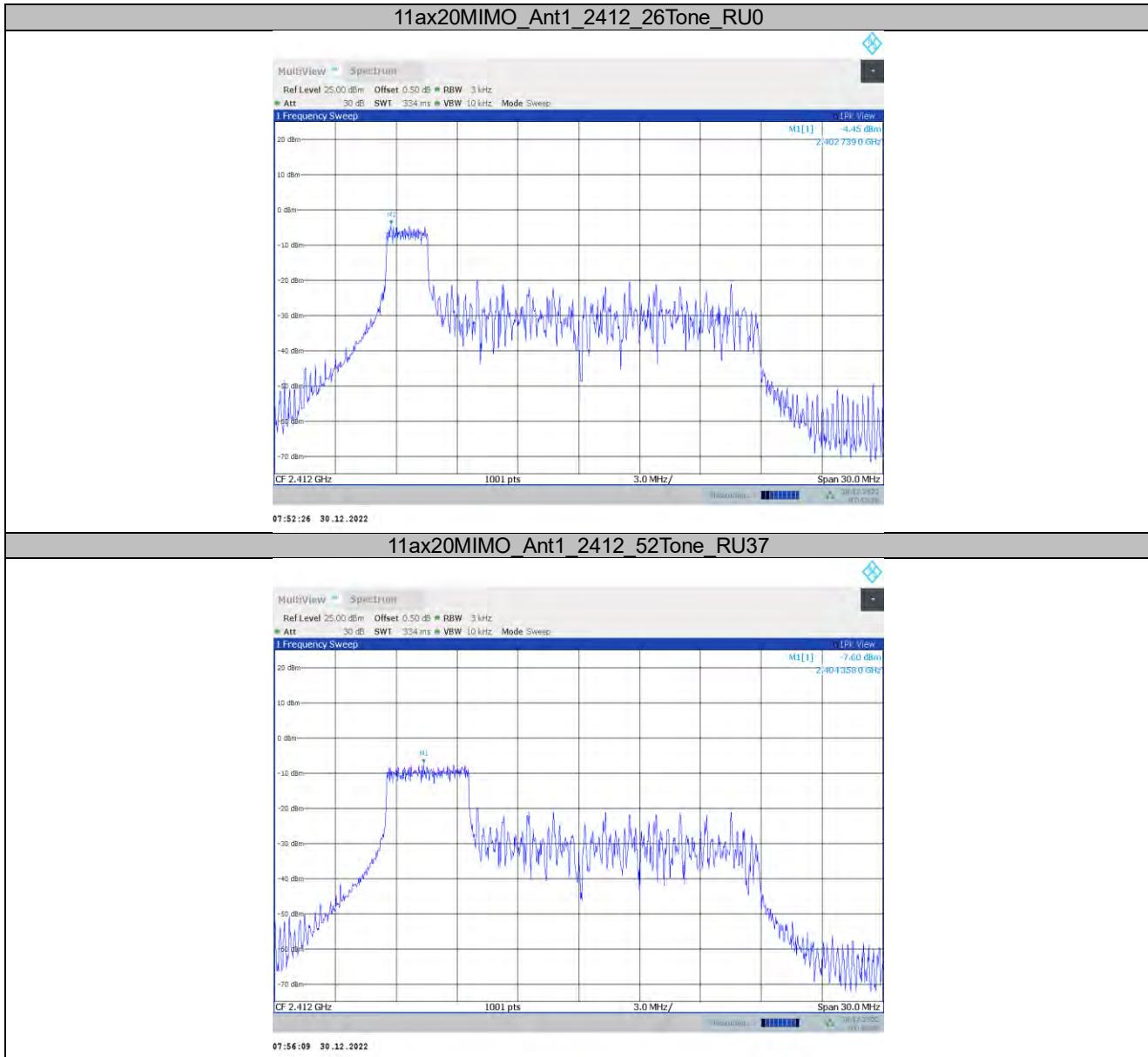


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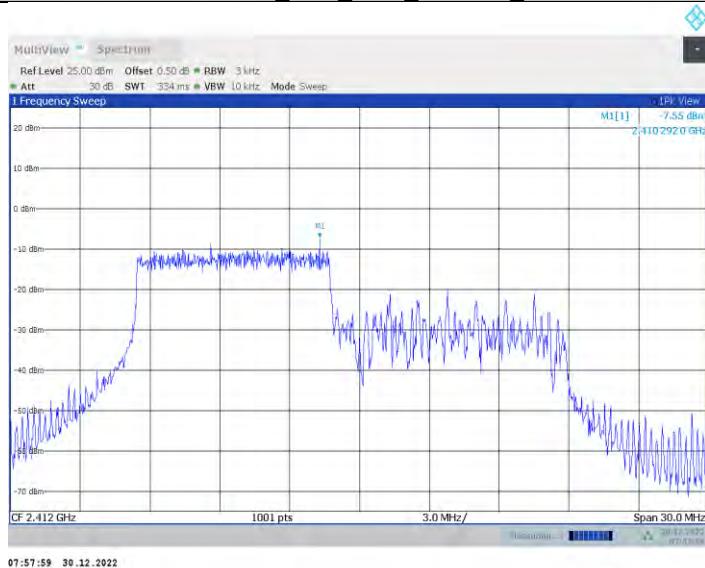
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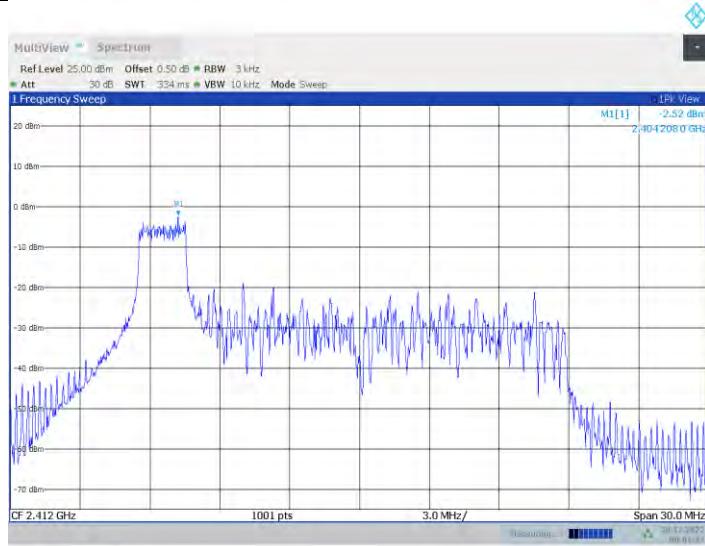
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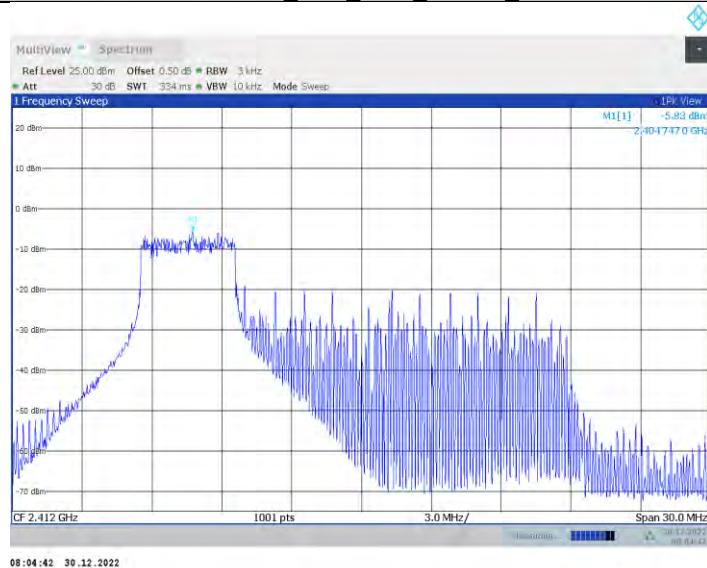
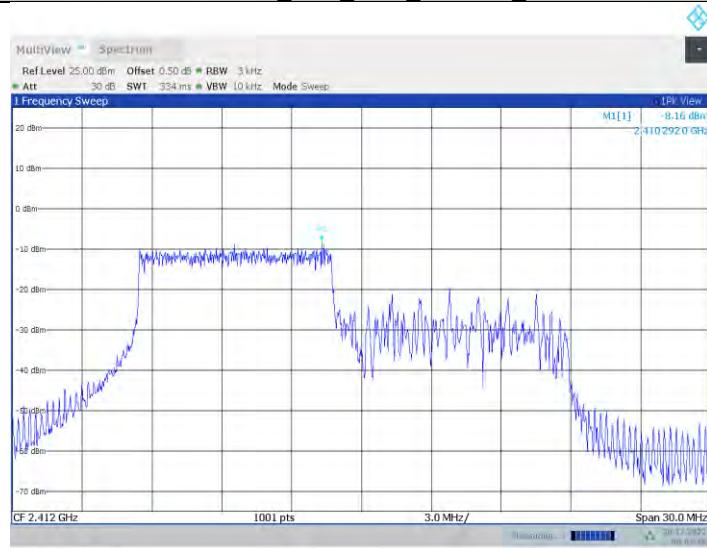
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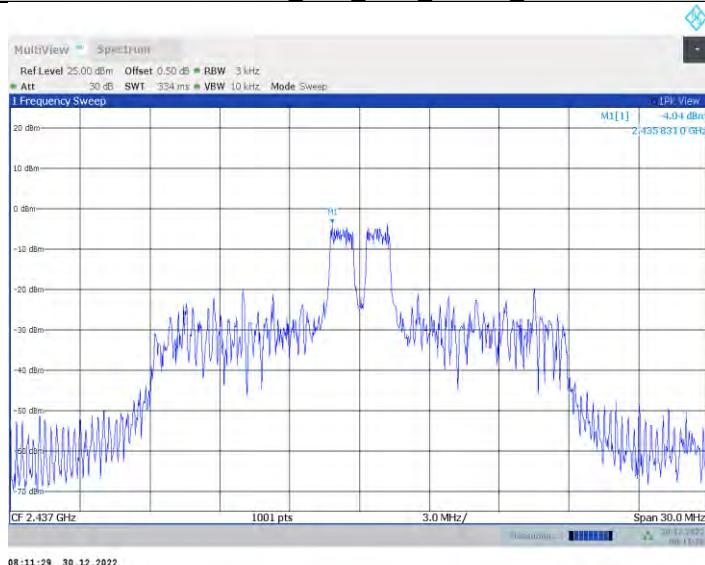
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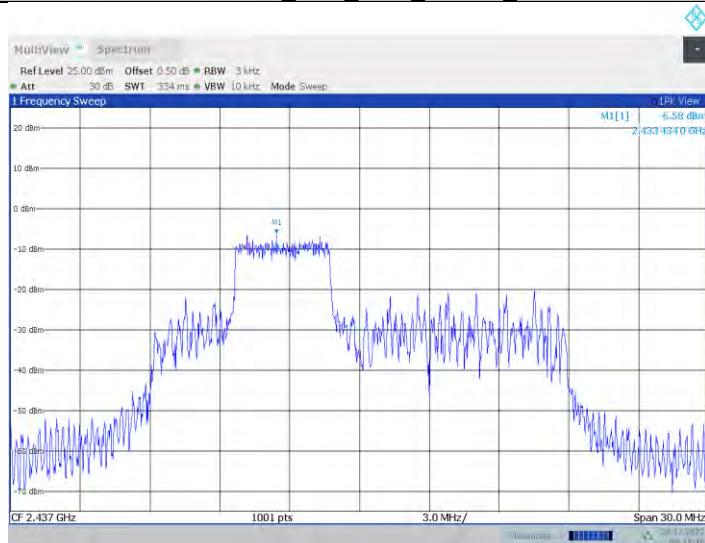
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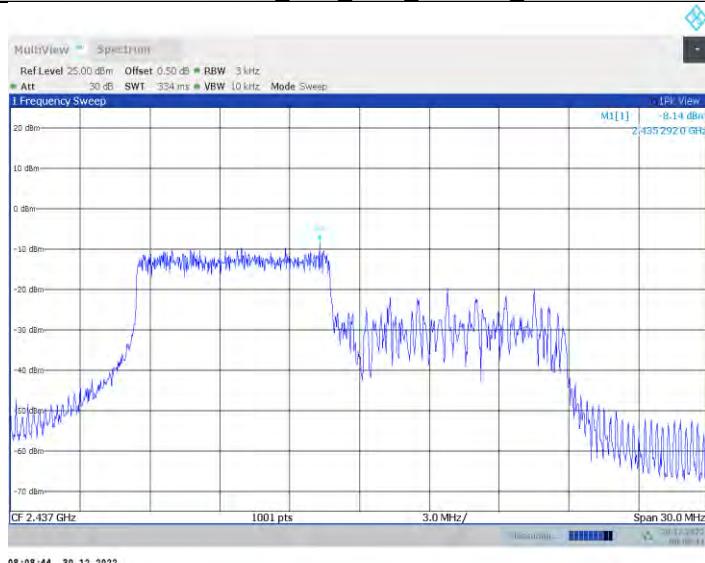
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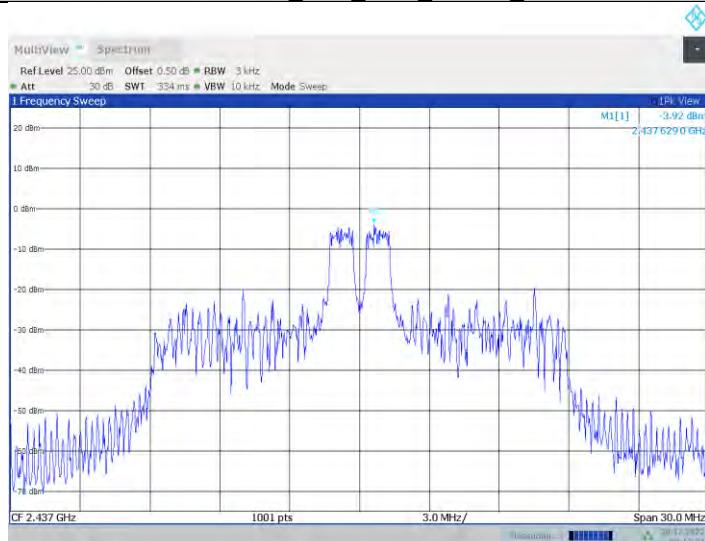
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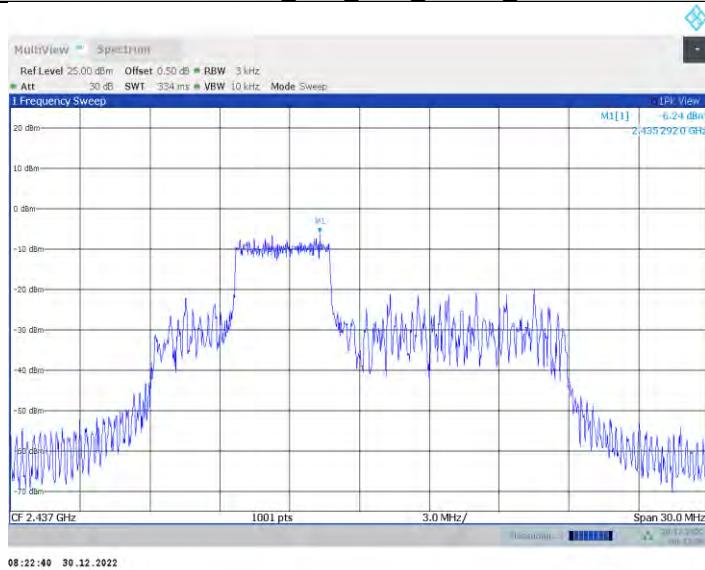
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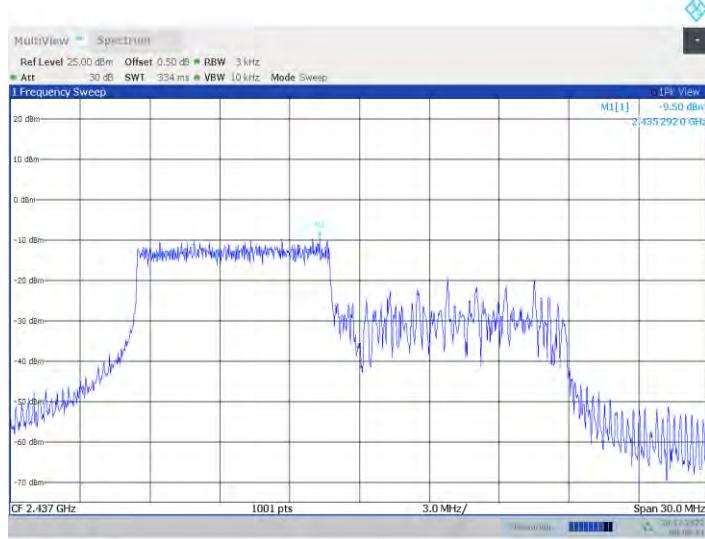
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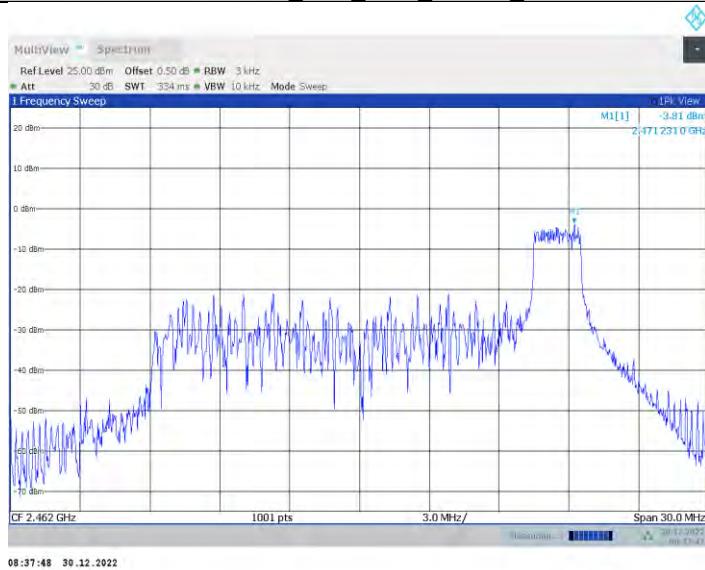
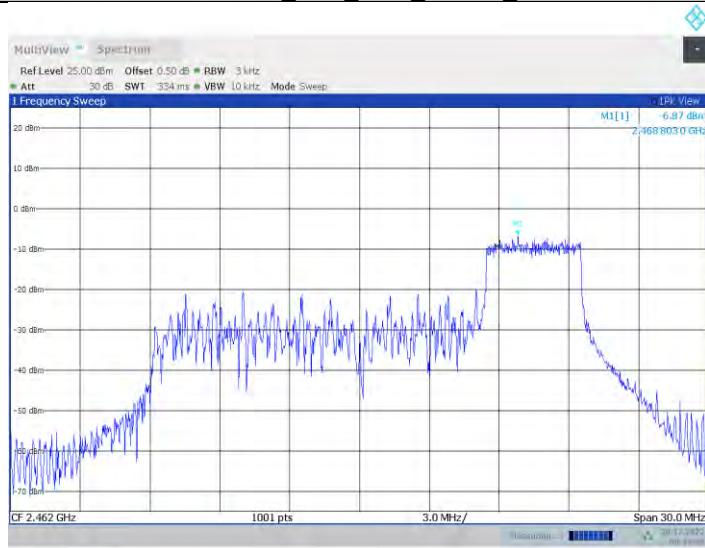
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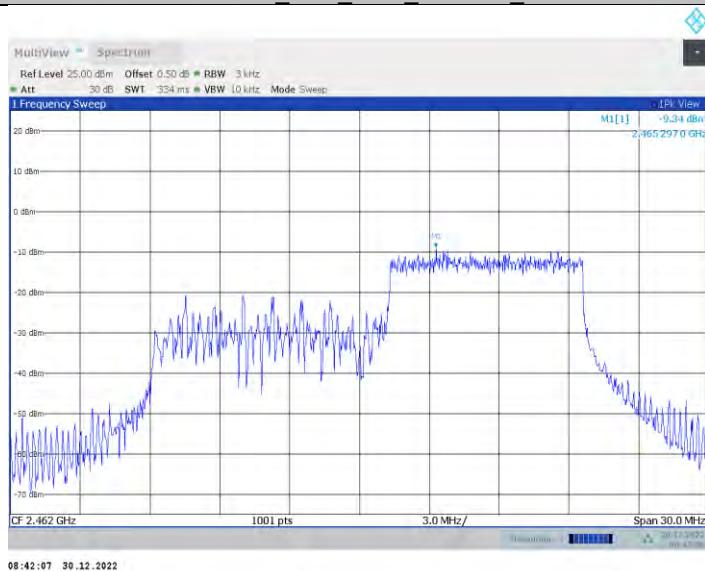
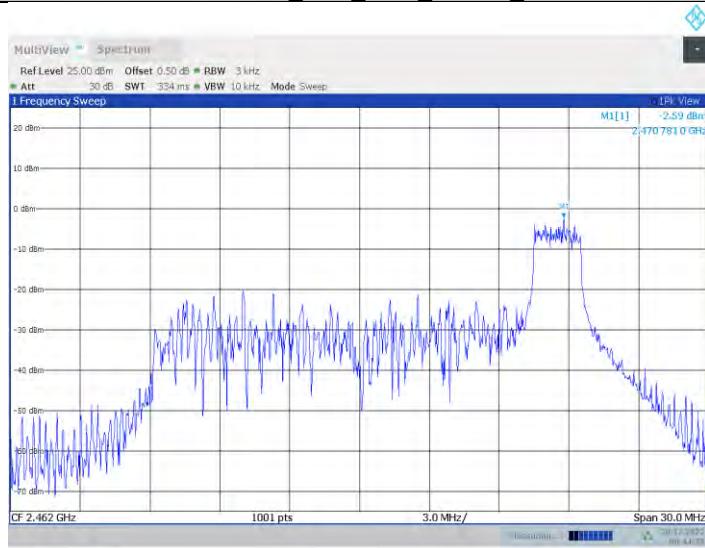
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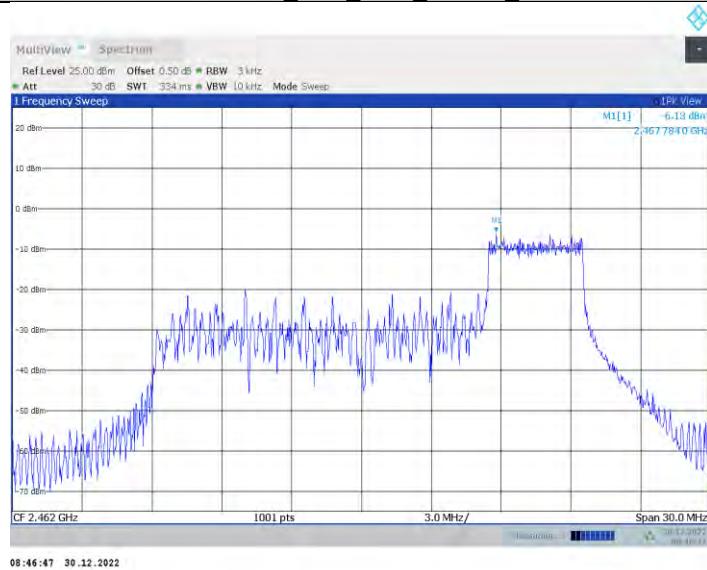
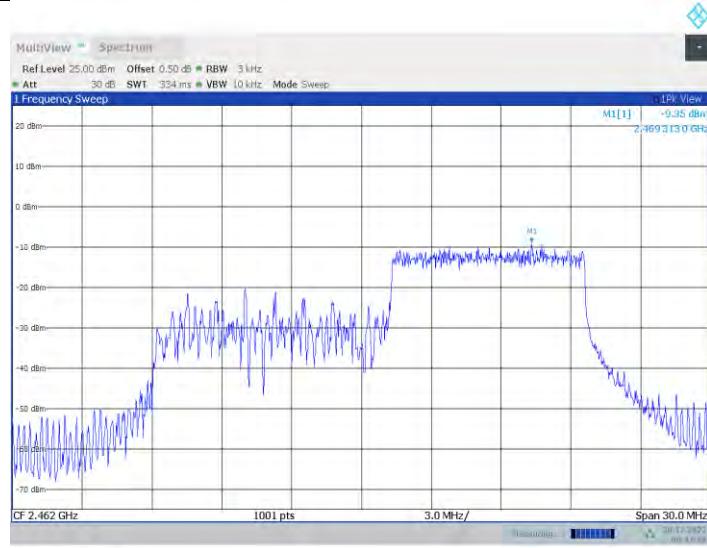
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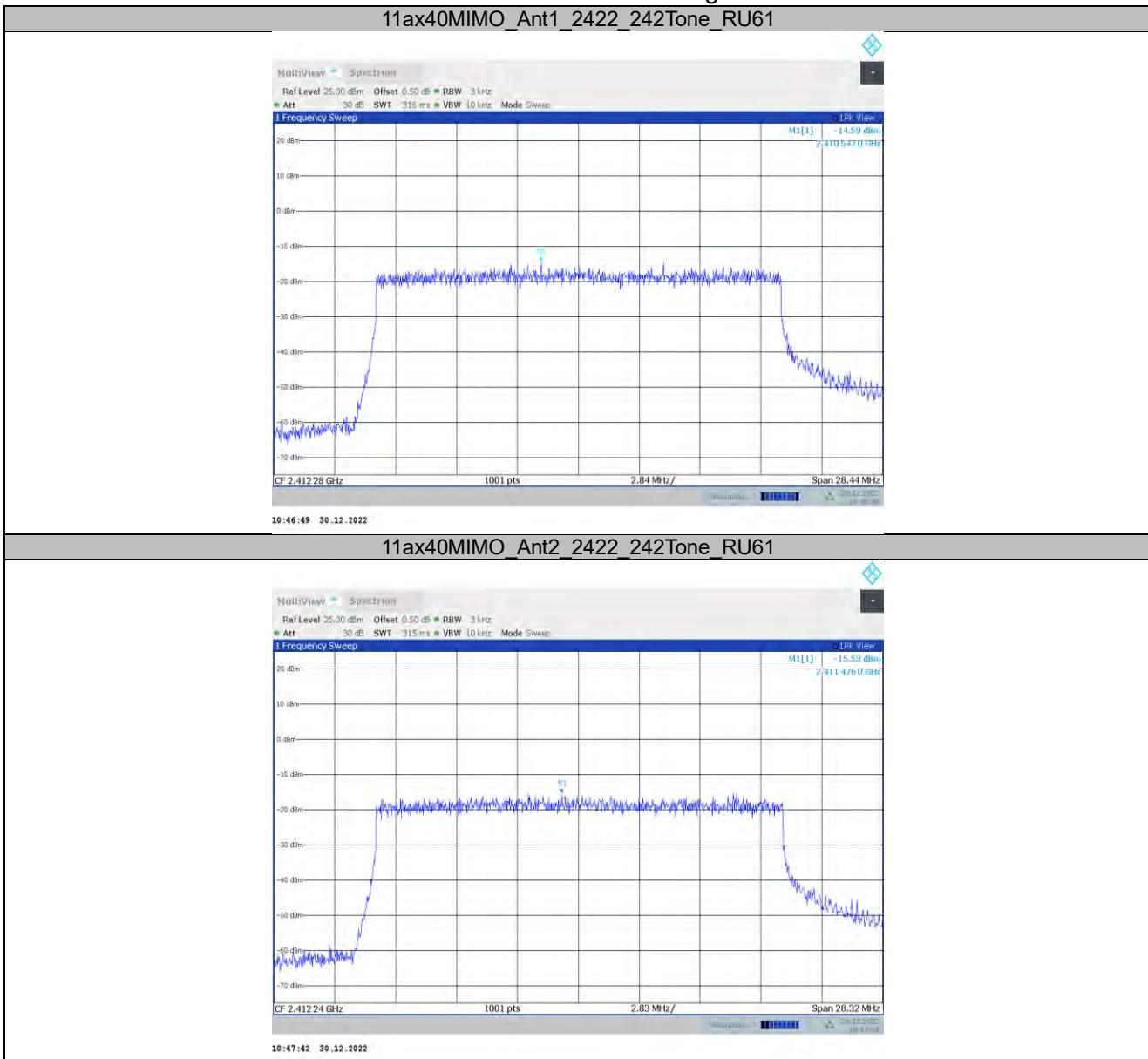
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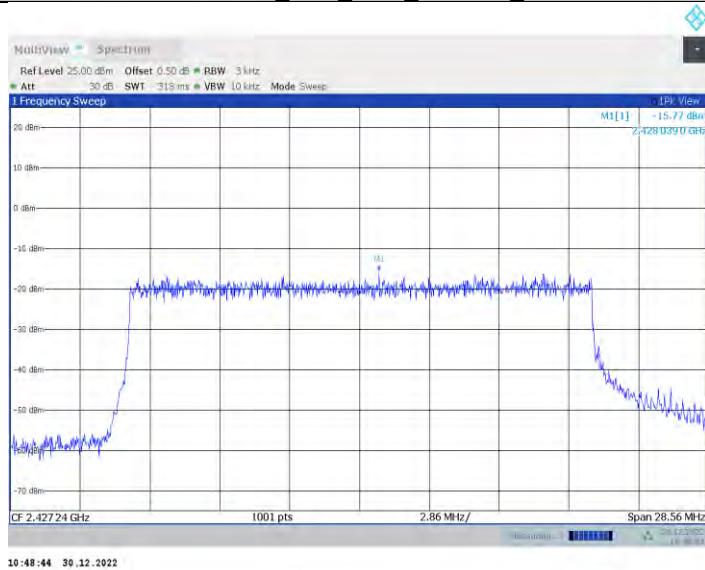
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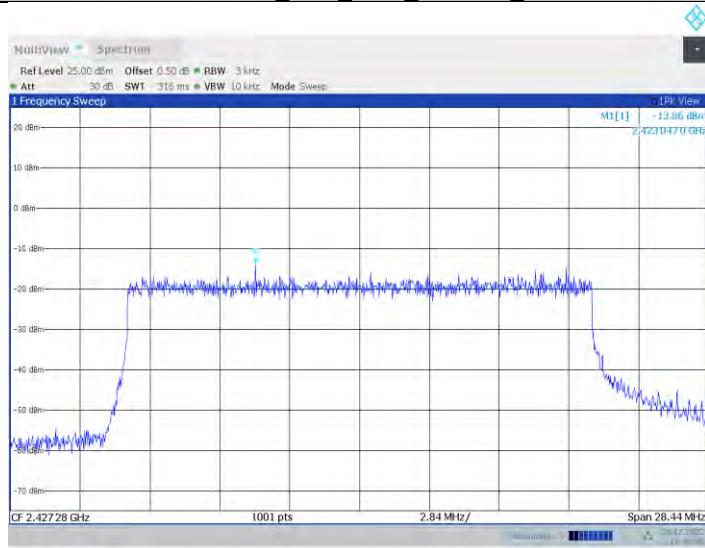
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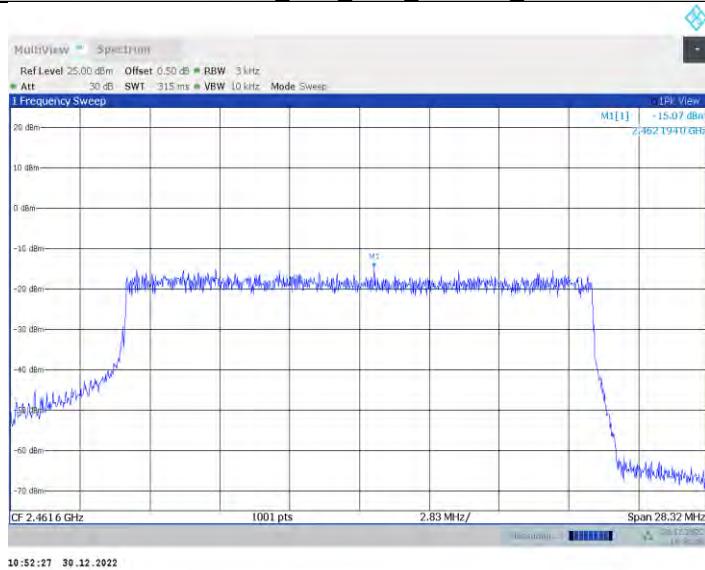
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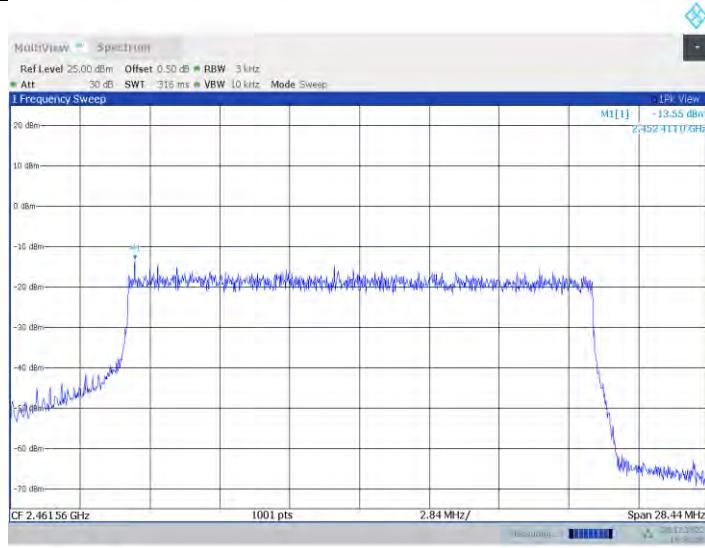
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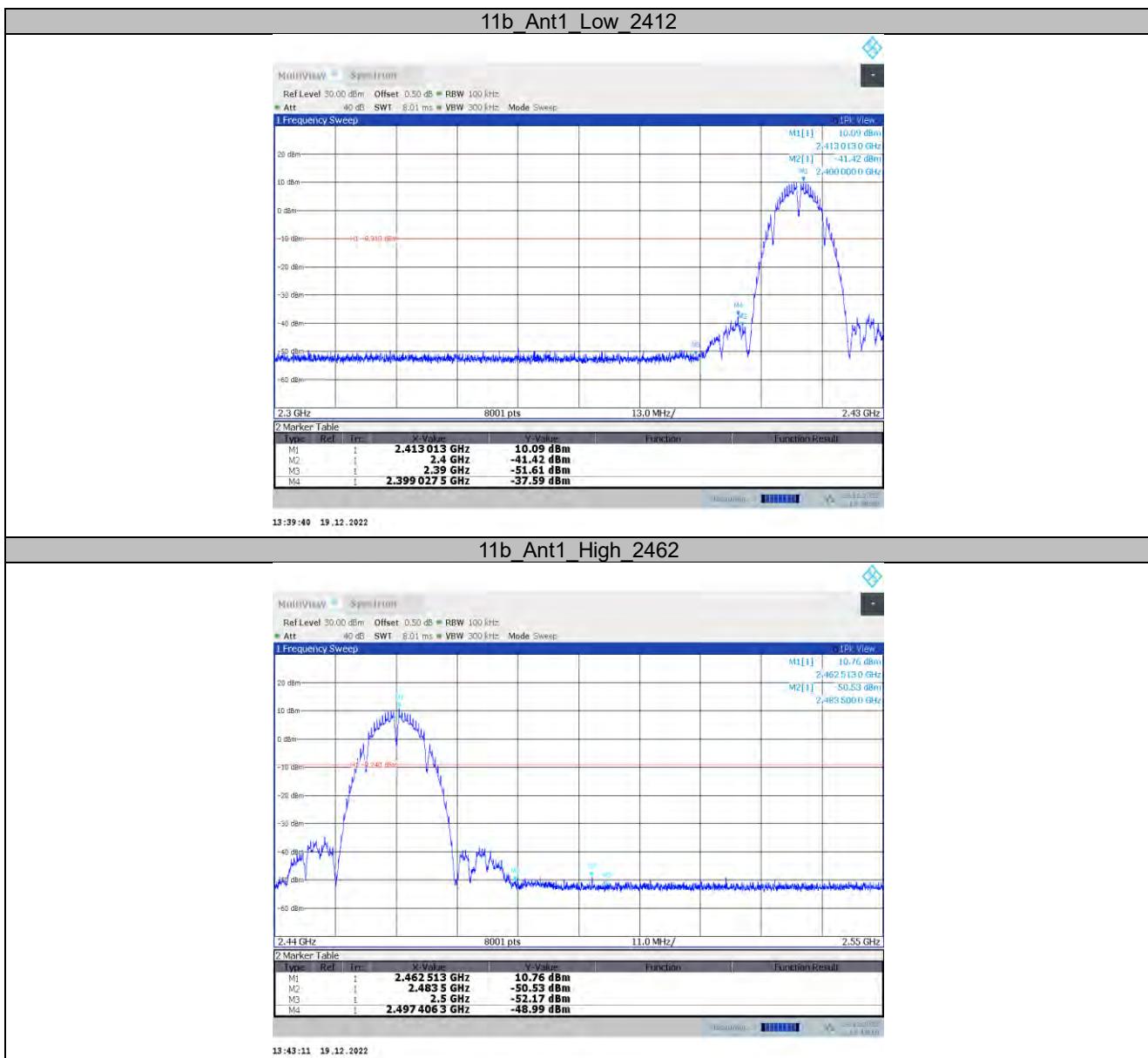
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Band edge measurements

Test Graphs



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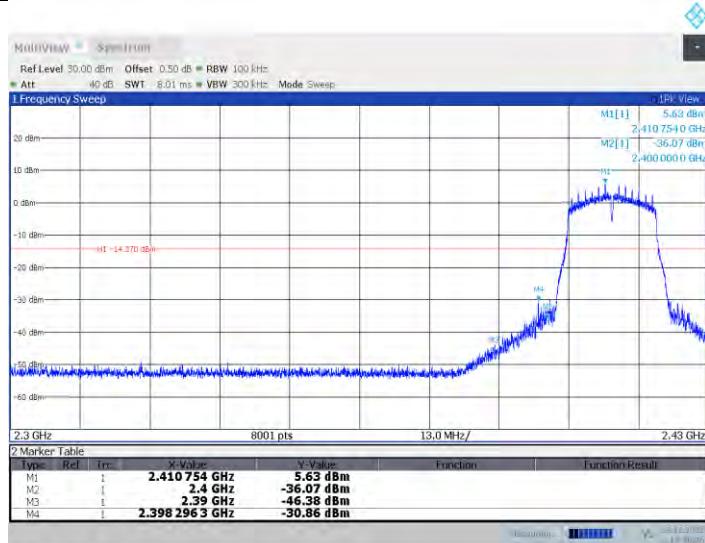
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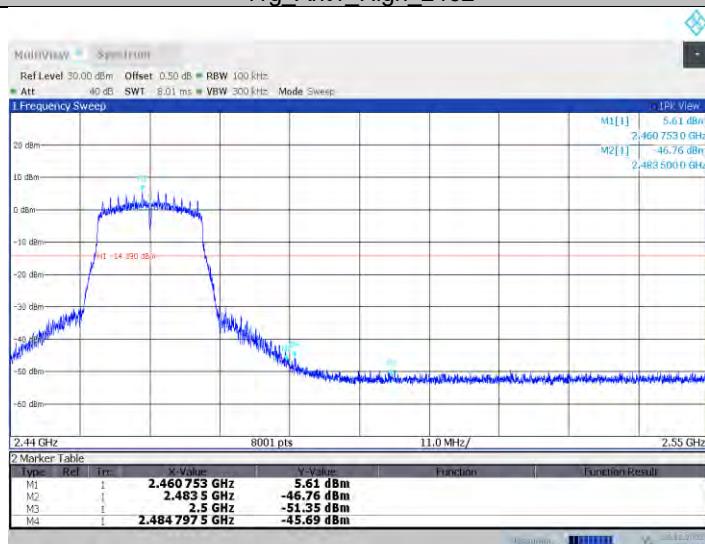
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11g_Ant1_High_2462



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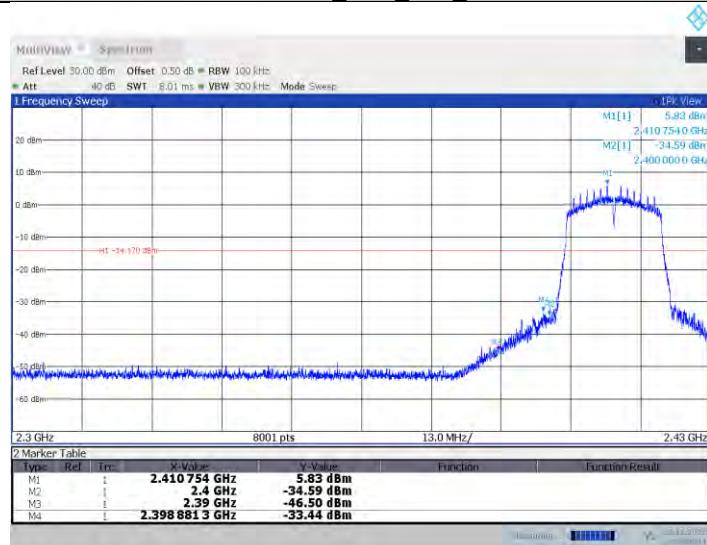
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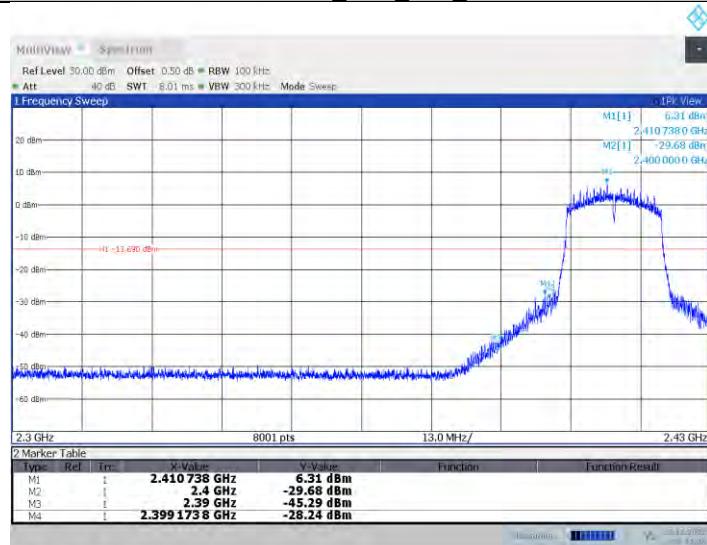
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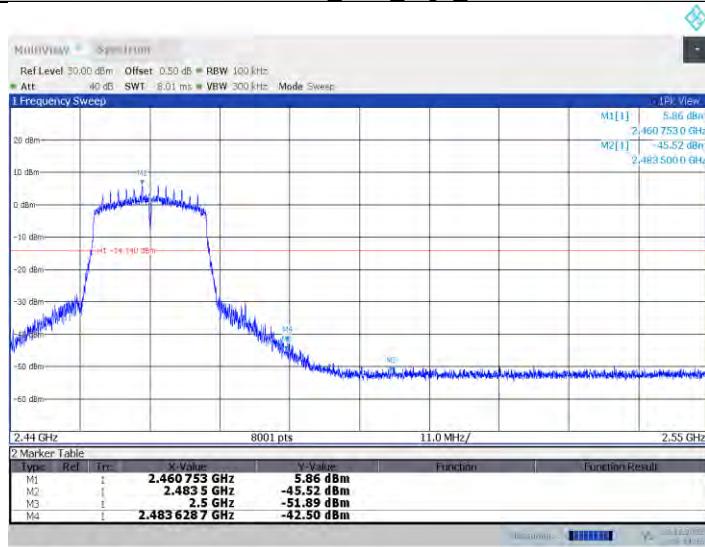
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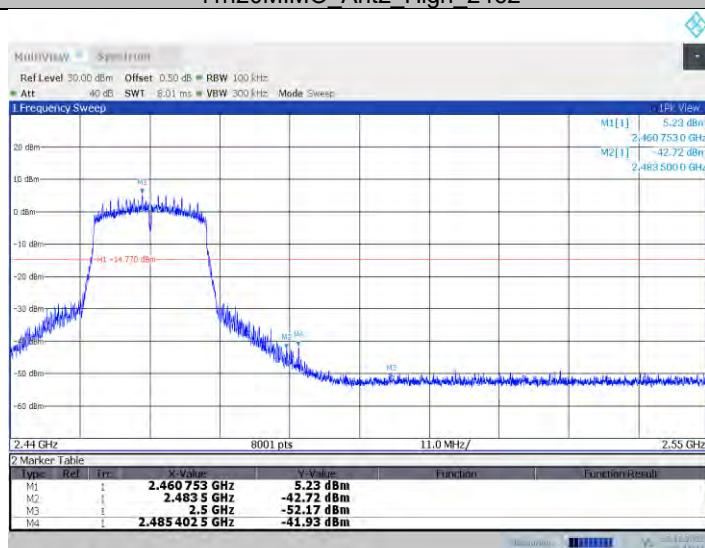
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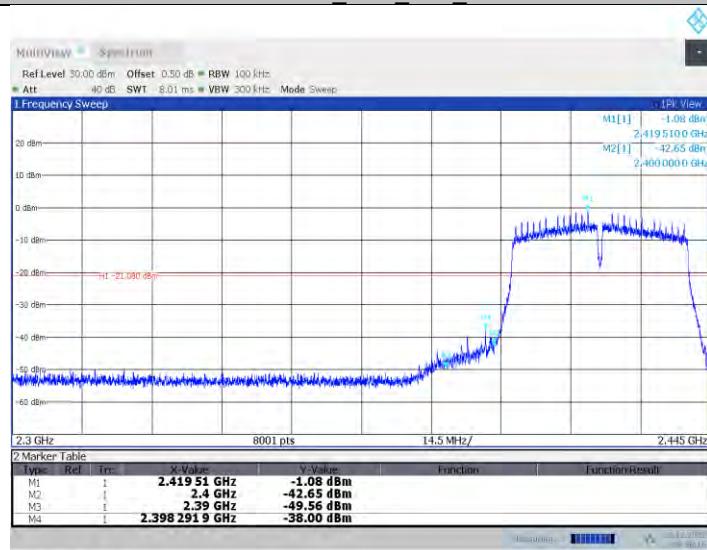
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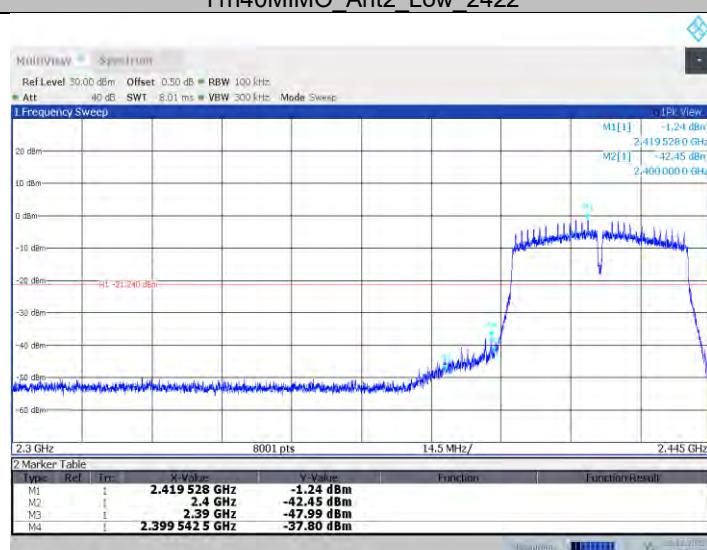
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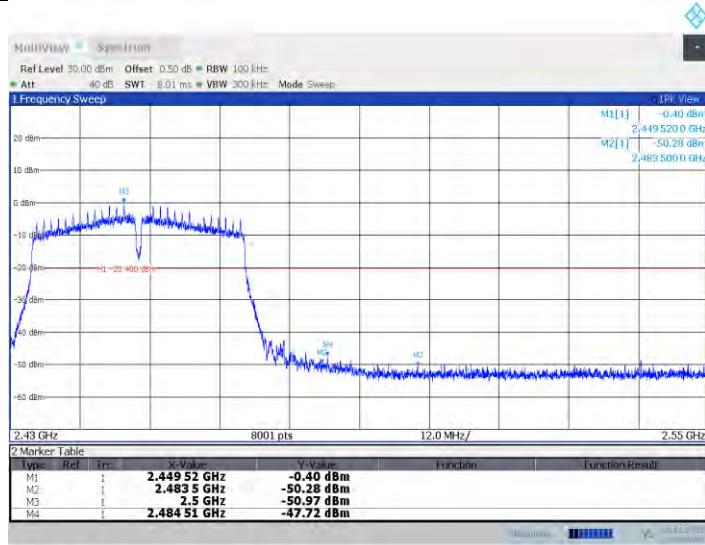
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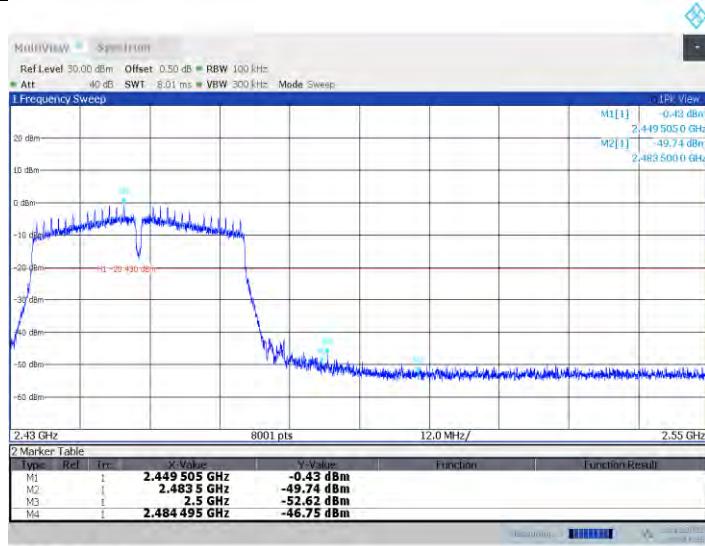
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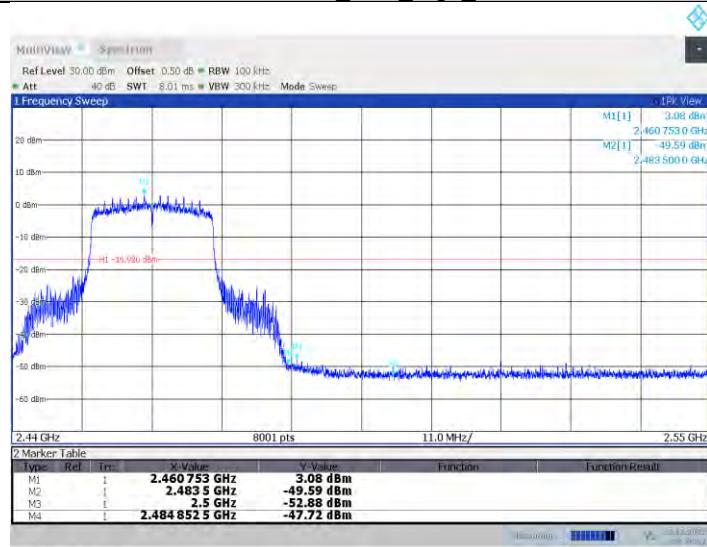
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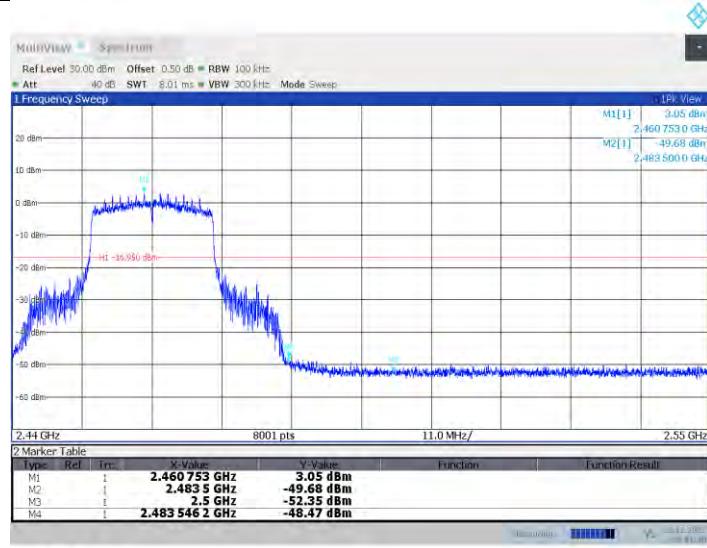
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11ax20MIMO_Ant1_High_2462



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11ax20MIMO_Ant2_High_2462



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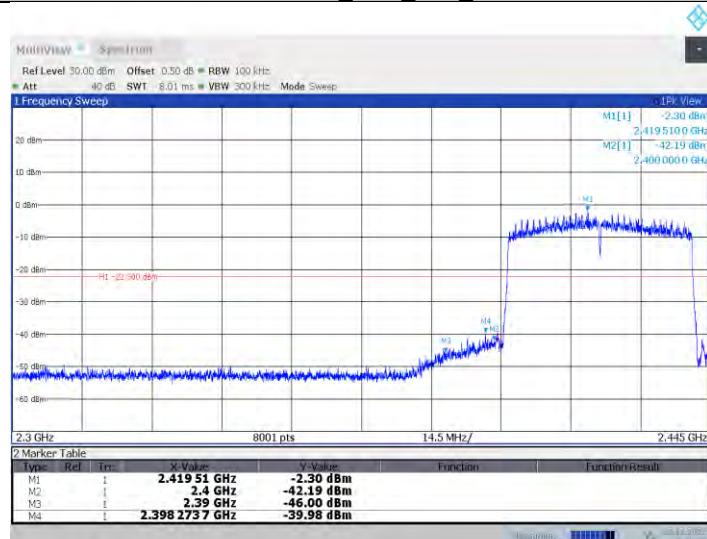
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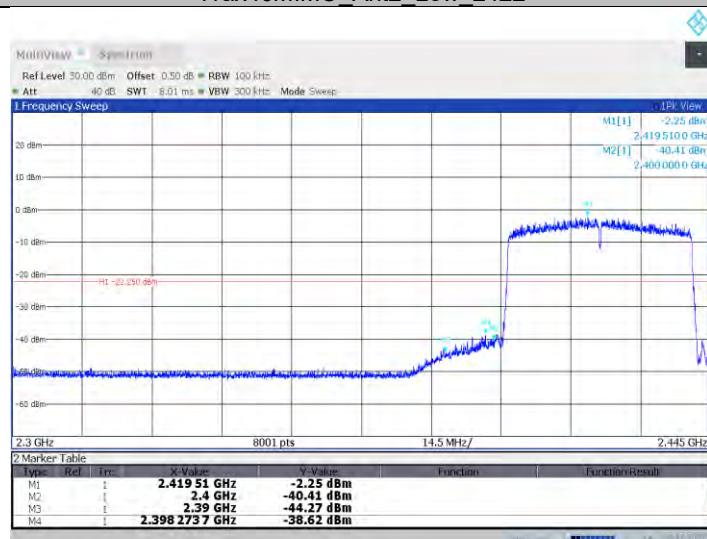
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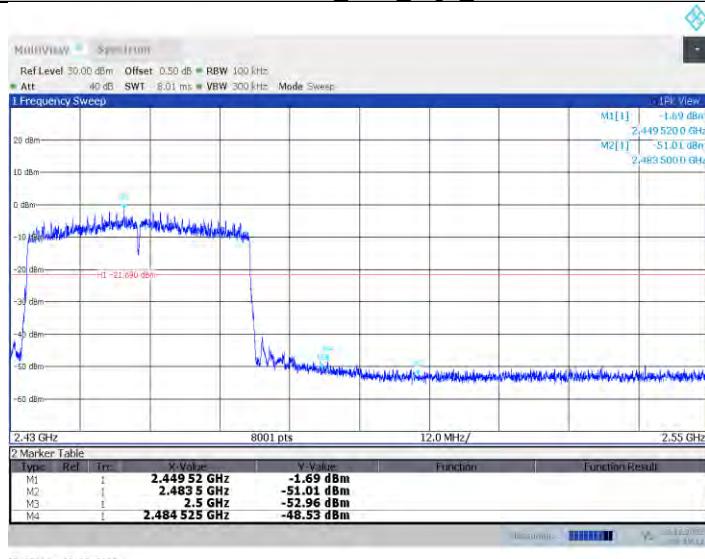
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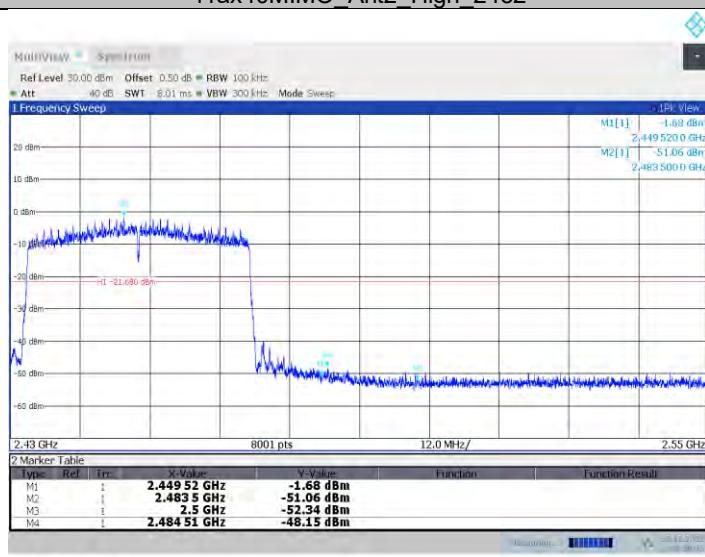
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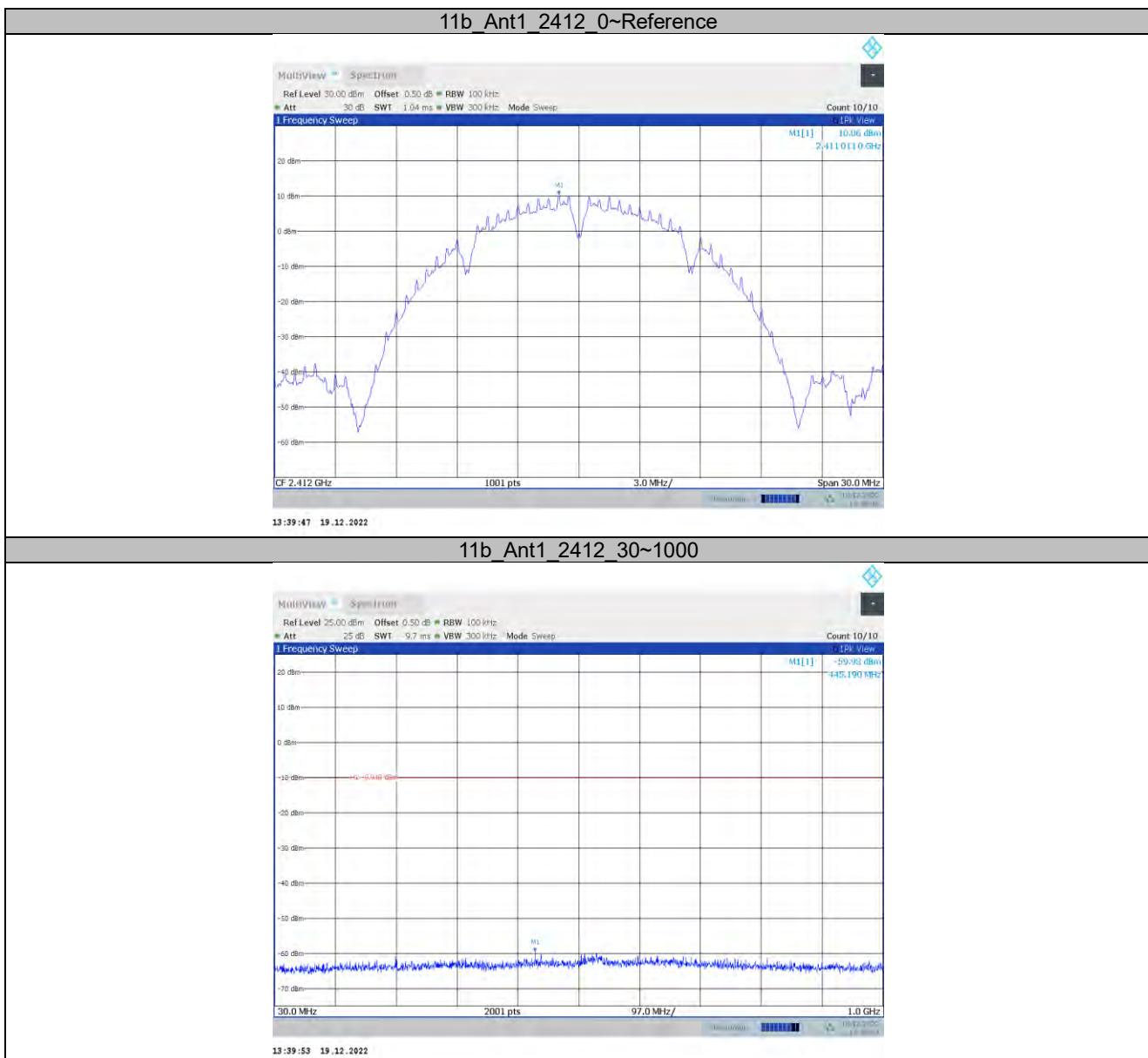


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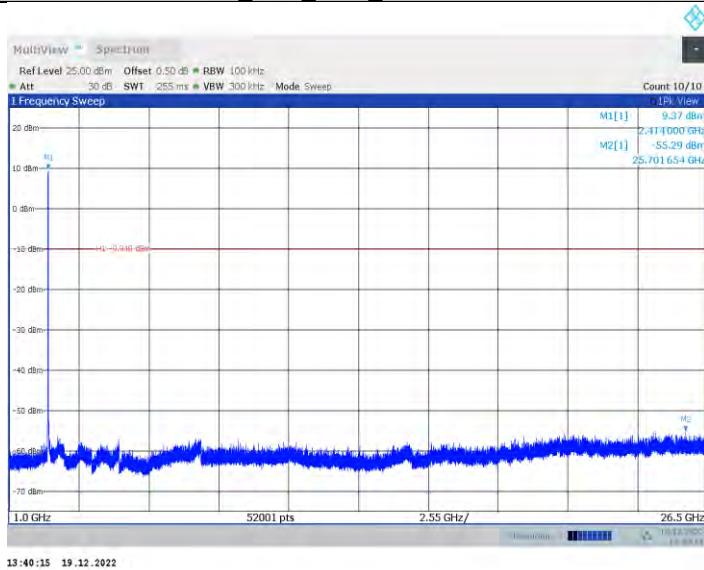
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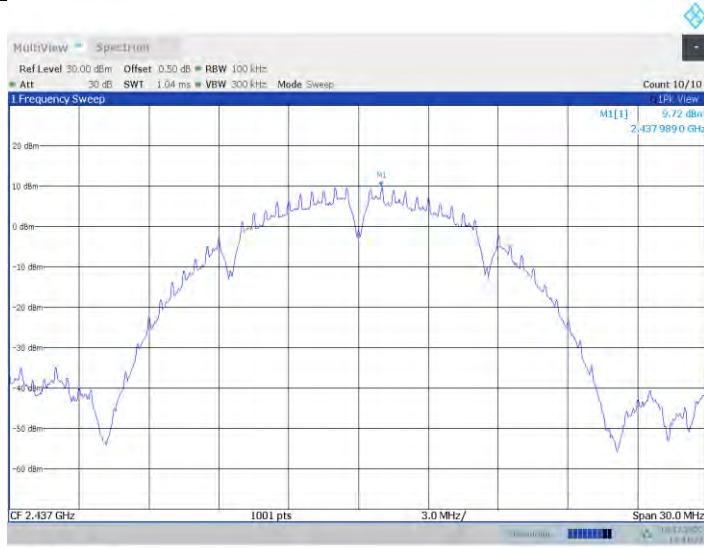
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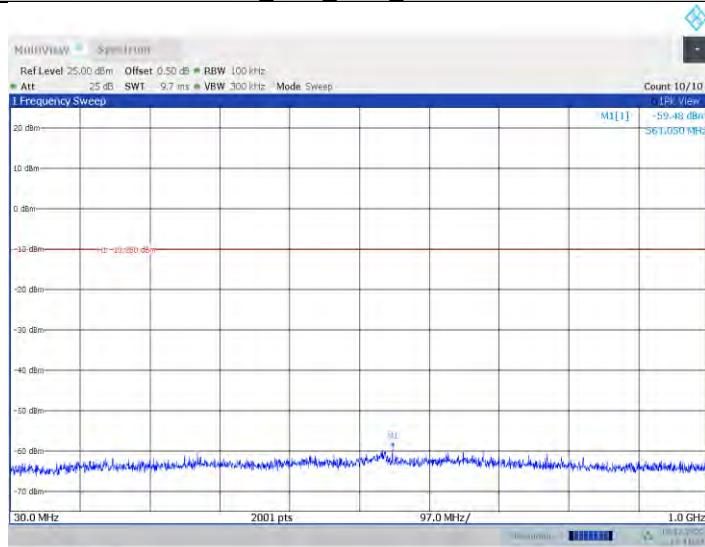
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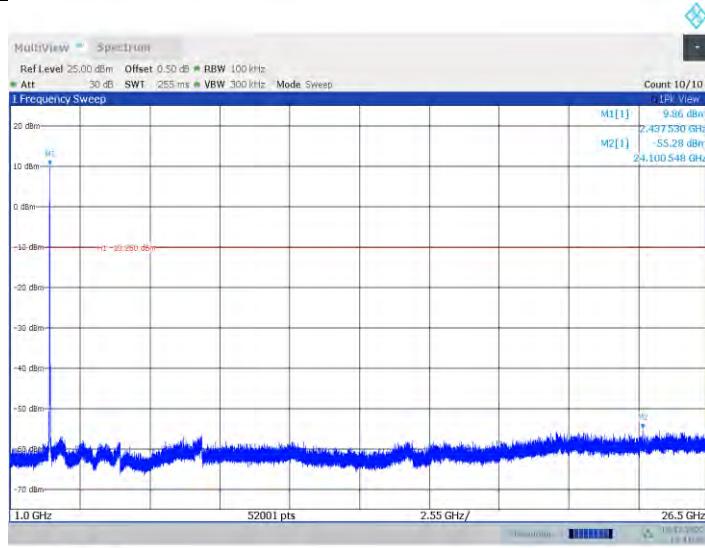
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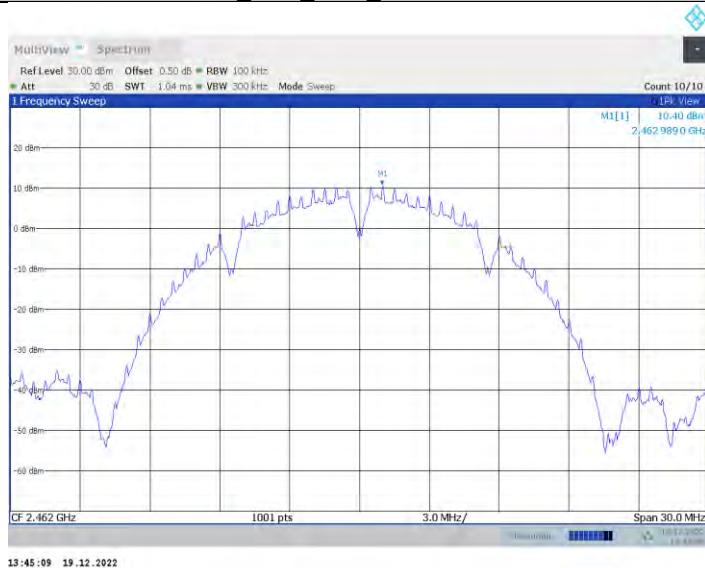
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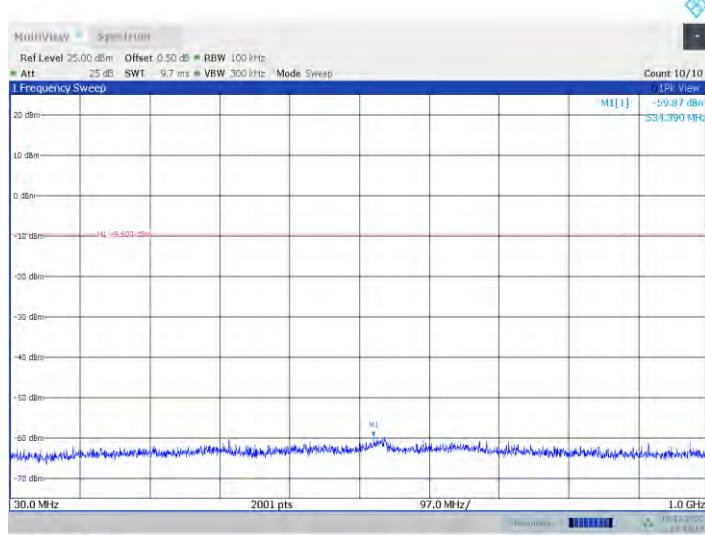
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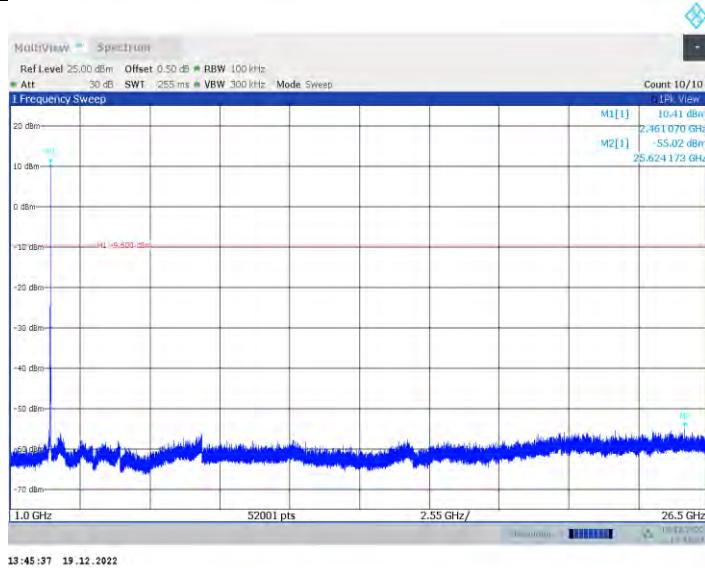
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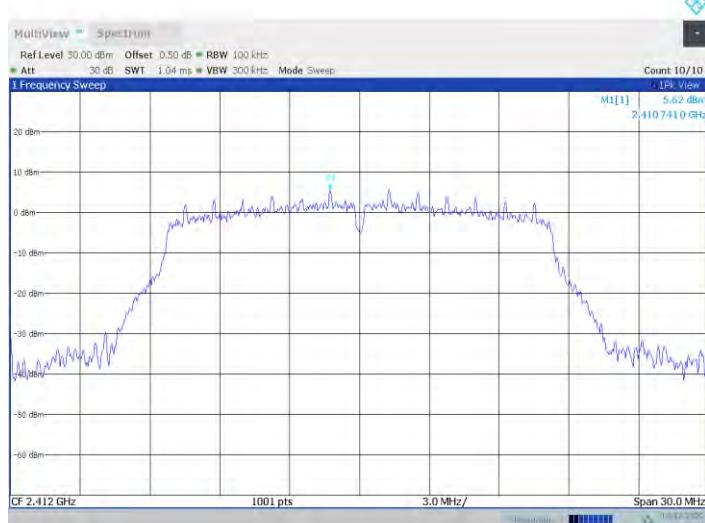
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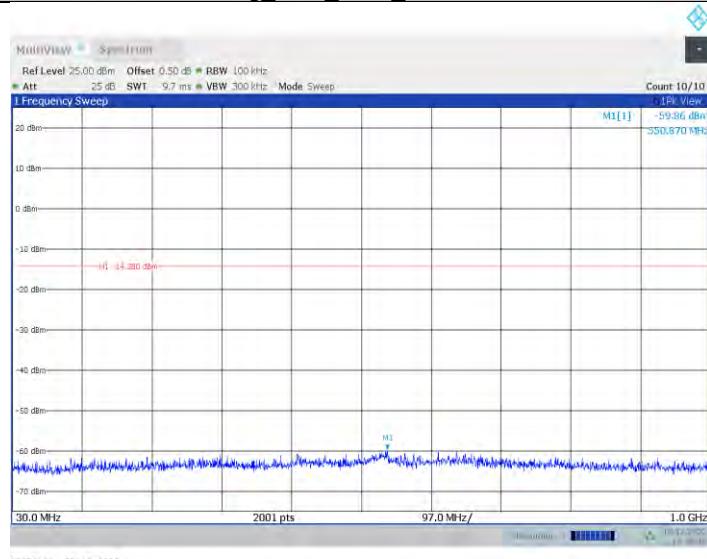
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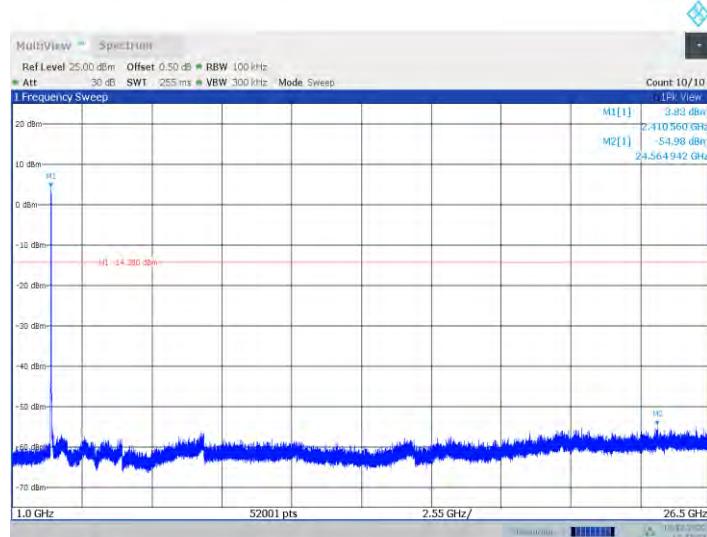
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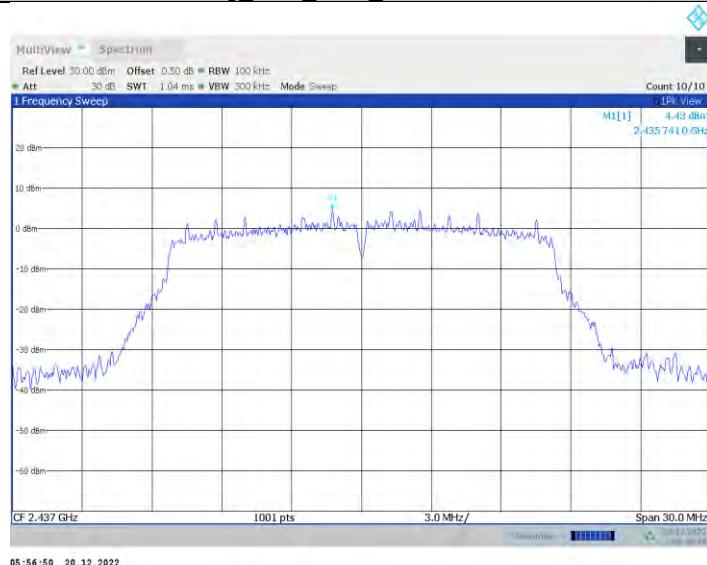
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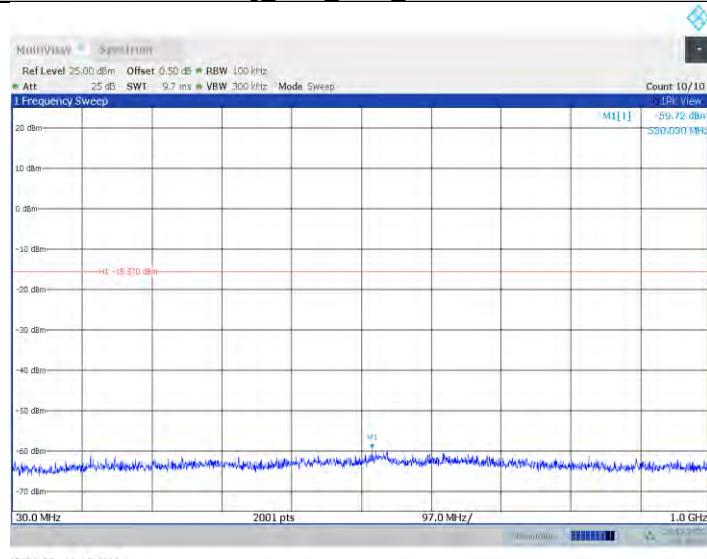
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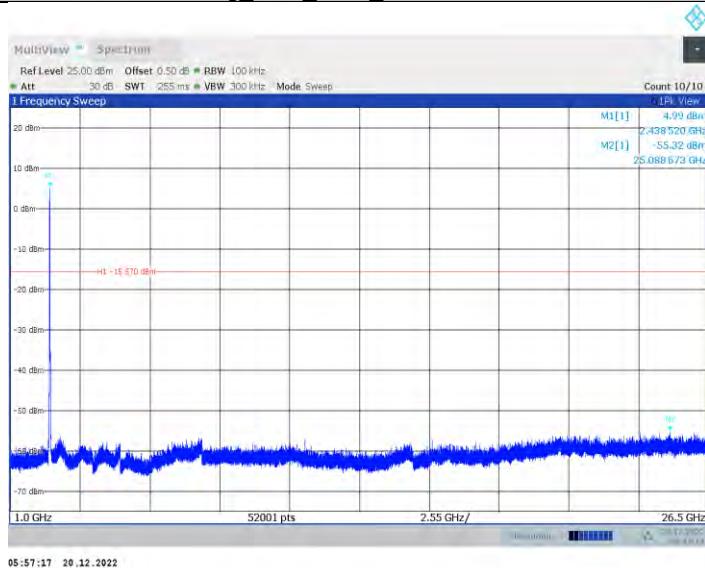
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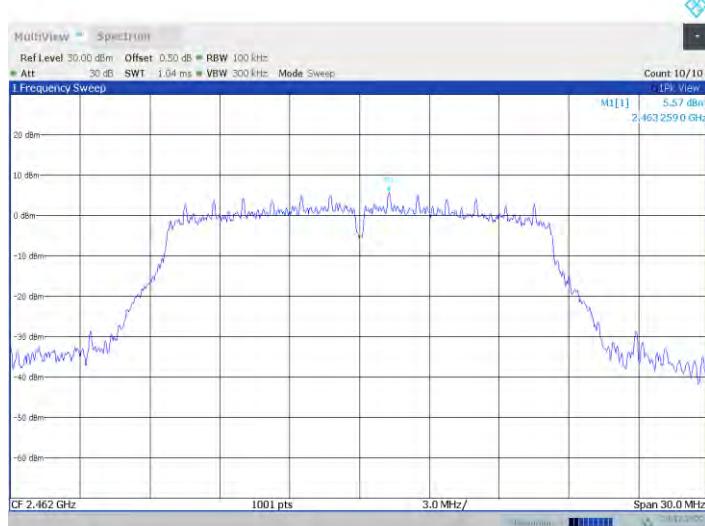
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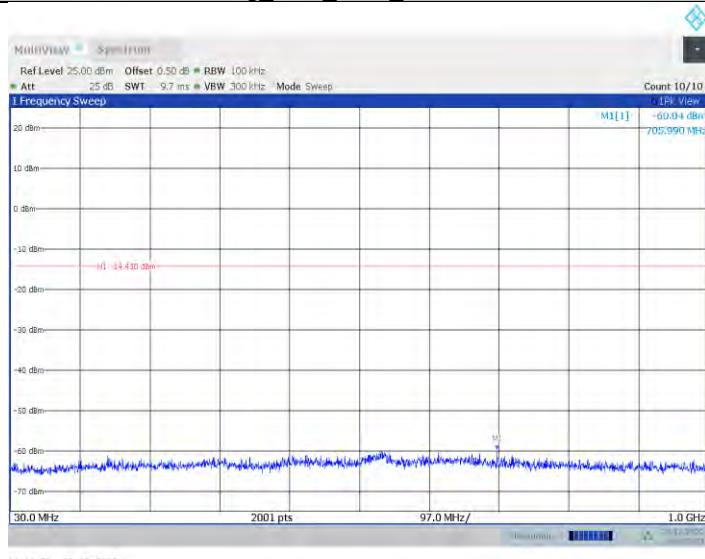
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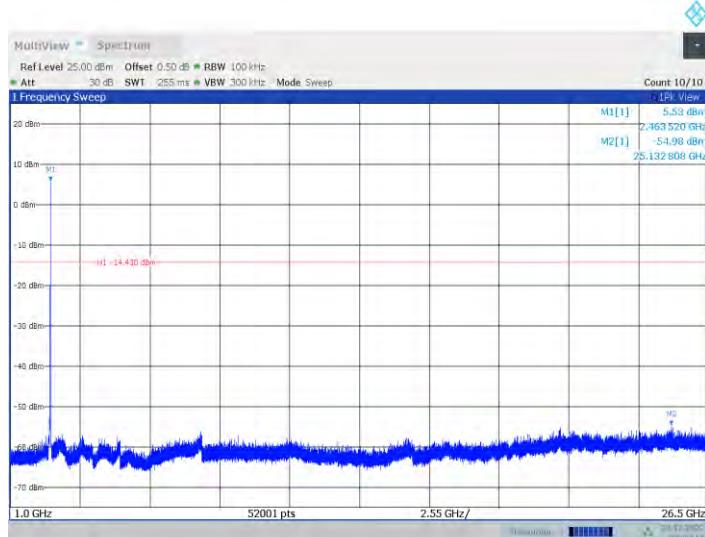
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06:02:58 20.12.2022

11g_Ant1_2462_1000~26500



06:03:19 20.12.2022

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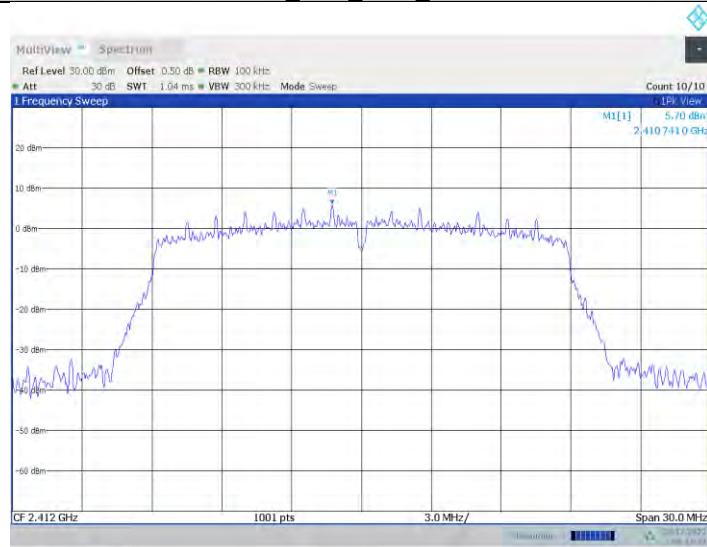
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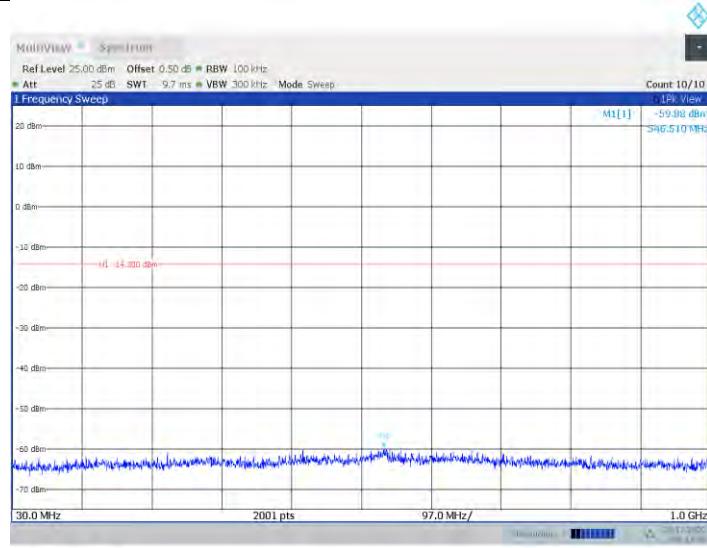
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11n20MIMO_Ant1_2412_0~Reference



06:12:54 20.12.2022

11n20MIMO_Ant1_2412_30~1000



06:13:01 20.12.2022

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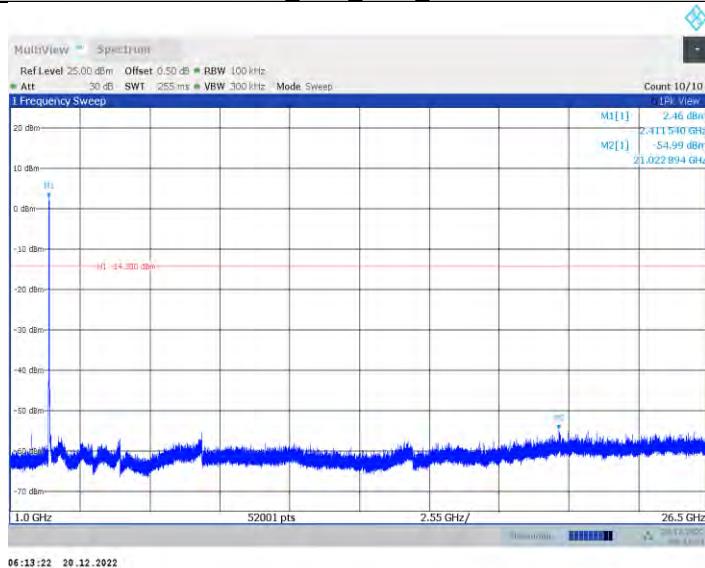
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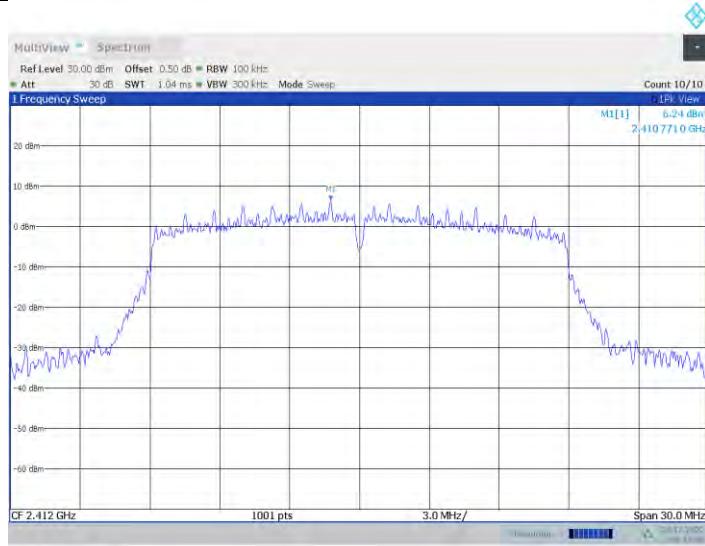
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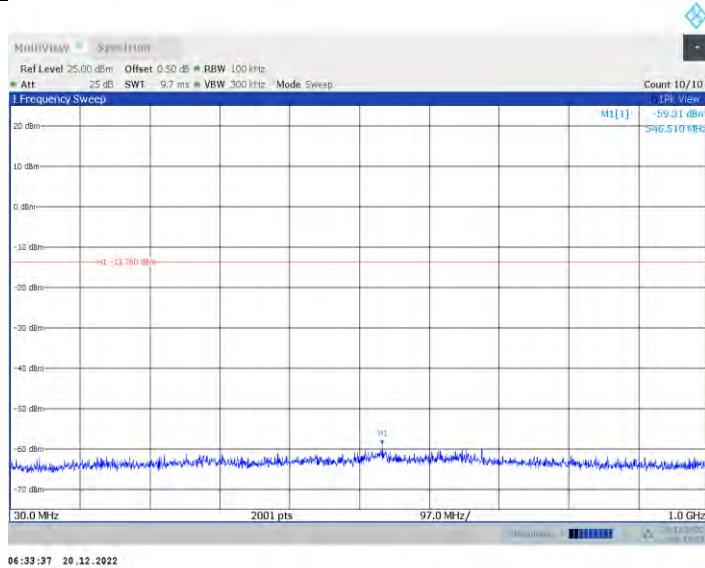
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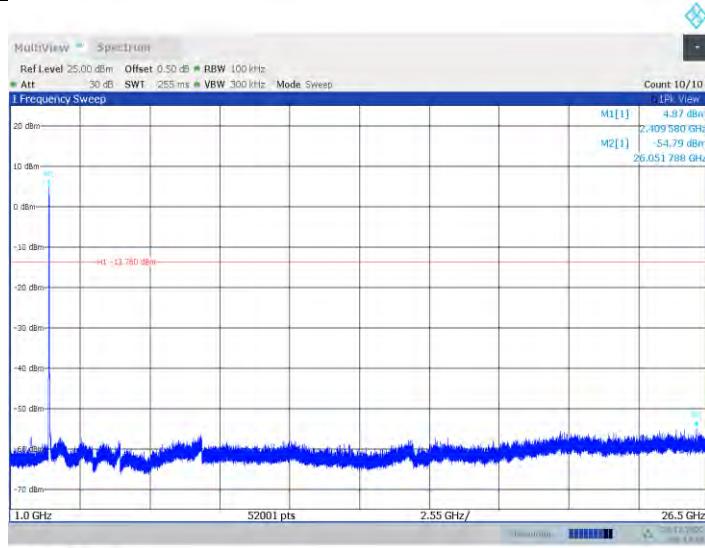
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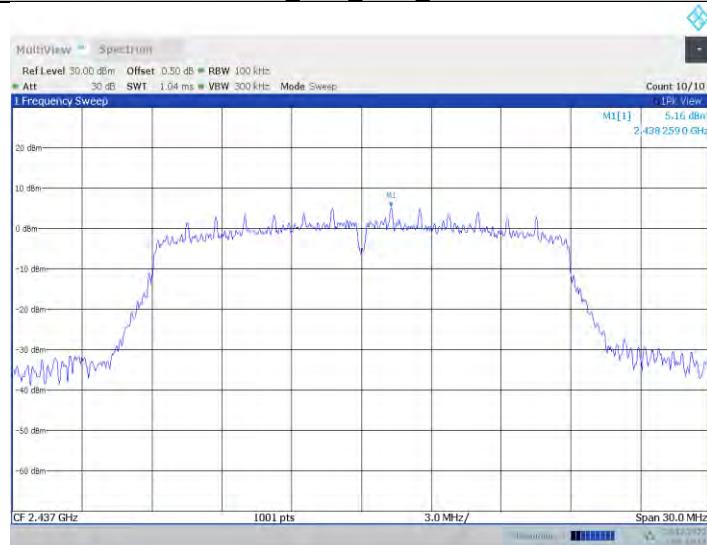
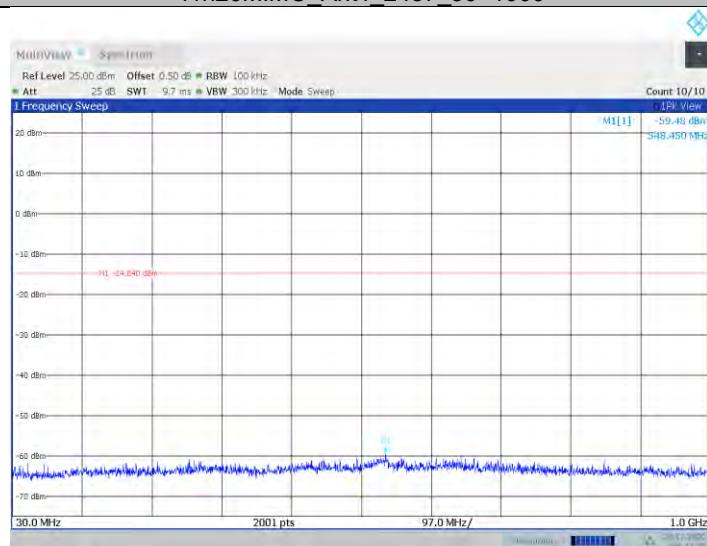
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11n20MIMO_Ant1_2437_0~Reference**11n20MIMO_Ant1_2437_30~1000**

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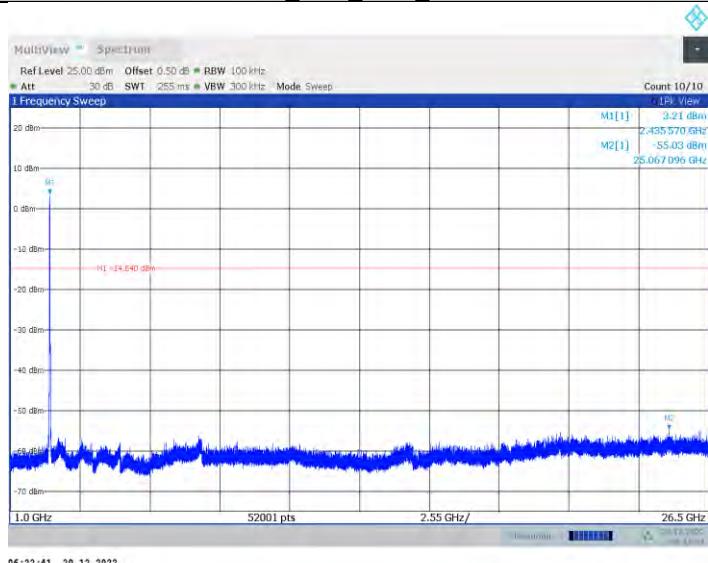
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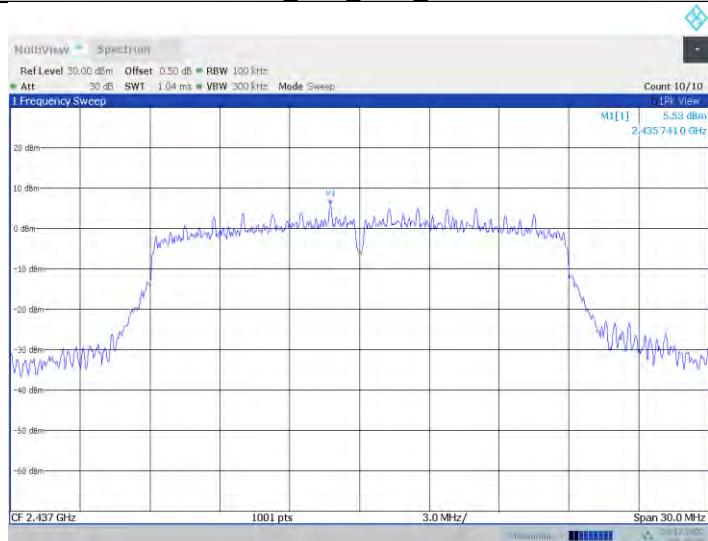
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