

Report No.: SEWM2203000023RG04

Rev.: 01

Page: 1 of 670

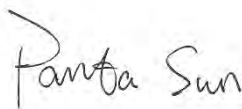
TEST REPORT

Application No.: SEWM2203000023RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
EUT Description: Smart Module
Model No.: SG865W-WF
Trade Mark: quectel
FCC ID: XMR2022SG865WWF
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/3/20
Date of Test: 2022/3/20 to 2022/6/28
Date of Issue: 2022/6/29

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:



Pantu Sun
Wireless Laboratory Manager



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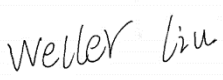
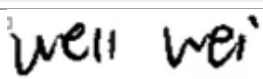
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/6/29		Original

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



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	Reporting only
	Band II-A	15.407(a)(2)			
	Band II-C	15.407(a)(2)			
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	Reporting only
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*lg(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
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:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, 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:	King-p Li, 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:	Smart Module	
Model No.:	SG865W-WF	
Trade Mark:	quectel	
Hardware Version:	R1.0	
Software Version:	SG865WWFPAR01A05	
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 5835MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	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:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	5150MHz to 5250MHz: 0dBi(Ant1); 0dBi(Ant2);	
	5250MHz to 5350MHz: 0dBi(Ant1); 0dBi(Ant2);	
	5470MHz to 5725MHz: 0dBi(Ant1); 0dBi(Ant2);	
Smart System:	<input type="checkbox"/> SISO	802.11a/n/ac/ax
	<input checked="" type="checkbox"/> MIMO	STBC: 802.11n/ac/ax: 2Tx & 2Rx
		TXBF: 802.11n/ac/ax: Tx & Rx
	<input checked="" type="checkbox"/> Diversity	CDD:802.11a: 2Tx & 2Rx
RF Cable*:	<input checked="" type="checkbox"/> Provided by client	
	1.0dB	

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Remark:

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

Frequency Range 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



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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 802.11a/n/ac/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



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTNV	-40	3.8
HTNV	80	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	SG865W-WF-TE-A_V1.2
Mother board	Quectel	SA800U-WF-EVB_V2.2
Adapter	Something High Electric(Xiamen)Company Inc	P60EB120500
Remark: all above the information of table are provided by client.		

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	/	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is external on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	

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 = $10 \log(N_{ANT}/N_{SS}=1)$ dB.
- 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 G_1, G_2, \dots, G_N dBi

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

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

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
0	0	0	0	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"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		



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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
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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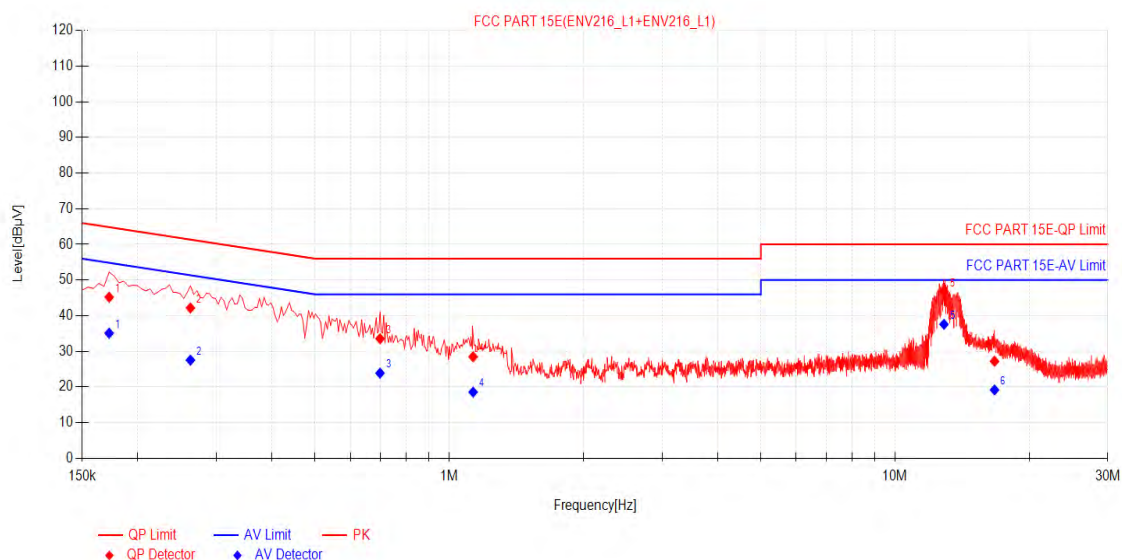
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Measurement Data

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.

Phase: Line



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	0.1725	10.73	34.47	45.20	64.84	19.64	24.36	35.09	54.84	19.75	PASS
2	0.2625	10.75	31.43	42.18	61.35	19.17	16.79	27.54	51.35	23.81	PASS
3	0.6990	10.58	22.96	33.54	56.00	22.46	13.32	23.90	46.00	22.10	PASS
4	1.1310	10.68	17.79	28.47	56.00	27.53	7.88	18.56	46.00	27.44	PASS
5	12.8760	10.57	36.11	46.68	60.00	13.32	27.02	37.59	50.00	12.41	PASS
6	16.7190	10.49	16.73	27.22	60.00	32.78	8.69	19.18	50.00	30.82	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).



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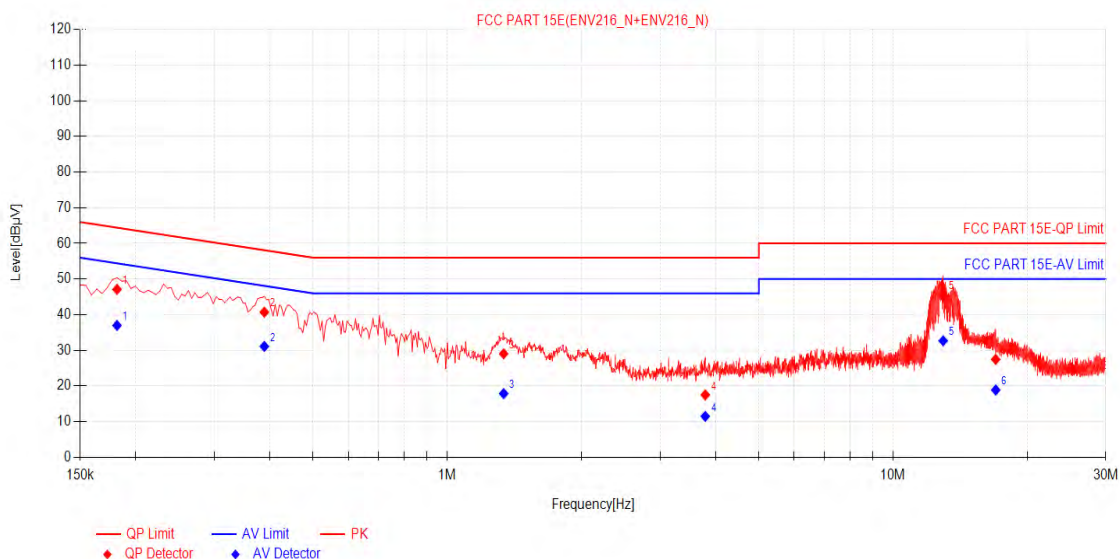
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Phase: Neutral



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	0.1815	10.70	36.41	47.11	64.42	17.31	26.29	36.99	54.42	17.43	PASS
2	0.3885	10.82	29.89	40.71	58.10	17.39	20.29	31.11	48.10	16.99	PASS
3	1.3380	10.78	18.26	29.04	56.00	26.96	7.09	17.87	46.00	28.13	PASS
4	3.7905	10.70	6.80	17.50	56.00	38.50	0.78	11.48	46.00	34.52	PASS
5	12.9570	10.62	34.93	45.55	60.00	14.45	22.06	32.68	50.00	17.32	PASS
6	16.9980	10.52	16.94	27.46	60.00	32.54	8.37	18.89	50.00	31.11	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).



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4.3 Duty Cycle

The detailed test data see: **Appendix**



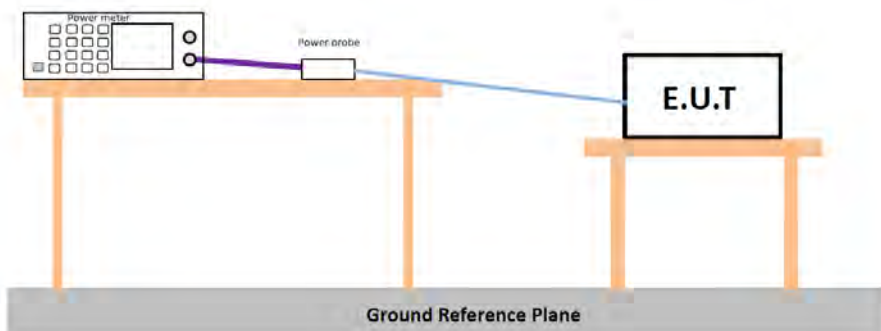
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section11.9.2.3	
Test Setup:	<div></div> <p>* Test with power meter (Detector function: Peak)</p>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	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: Appendix		



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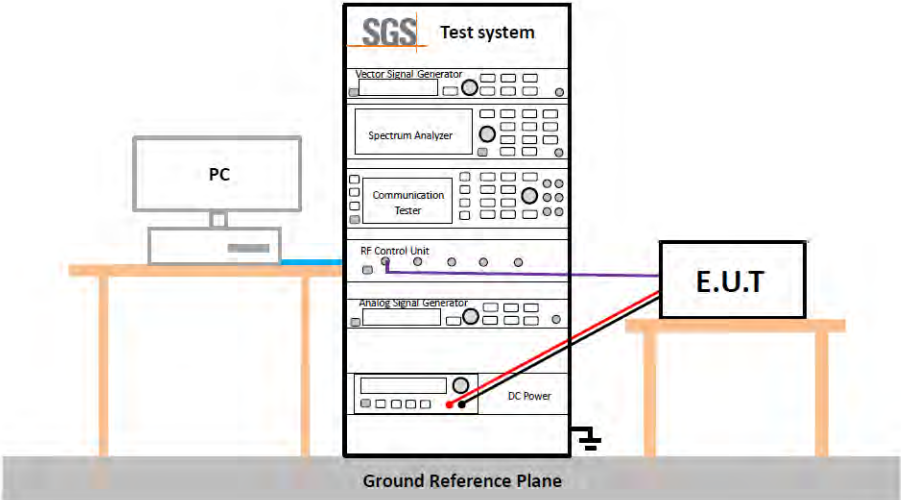
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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
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: Appendix	



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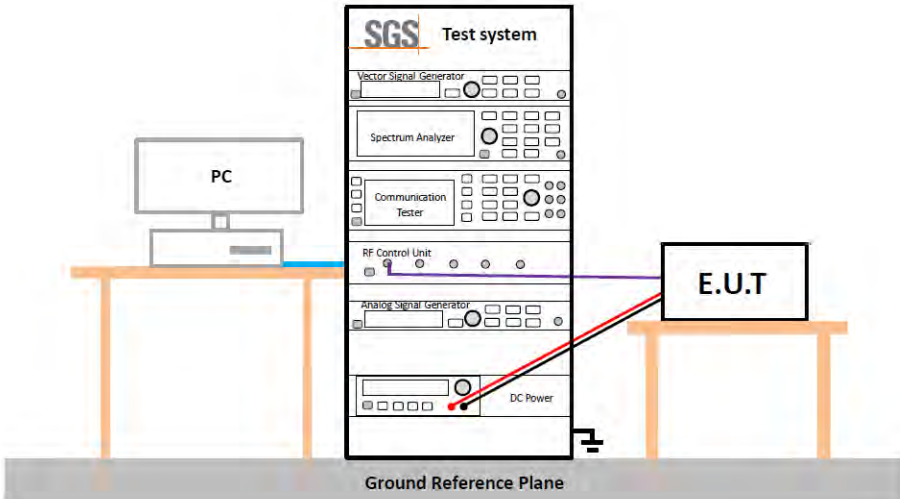
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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 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 lease 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		



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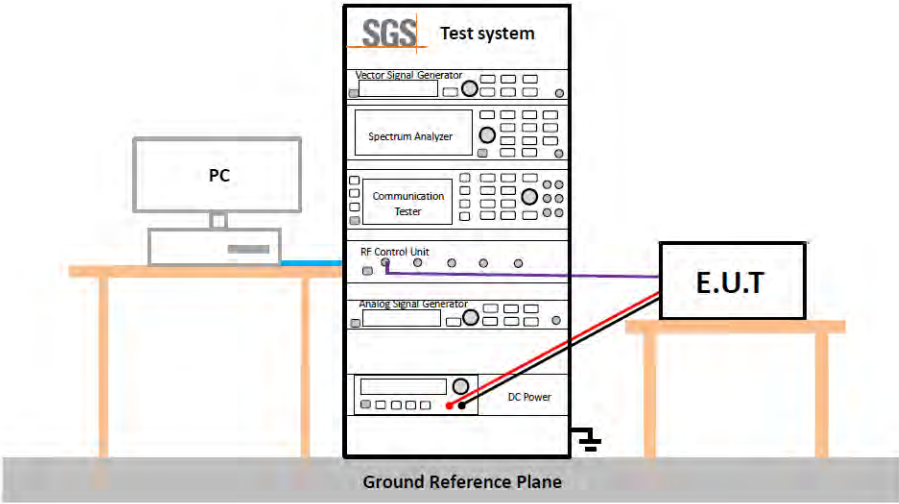
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4.7 99% Occupied Bandwidth

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: Appendix	



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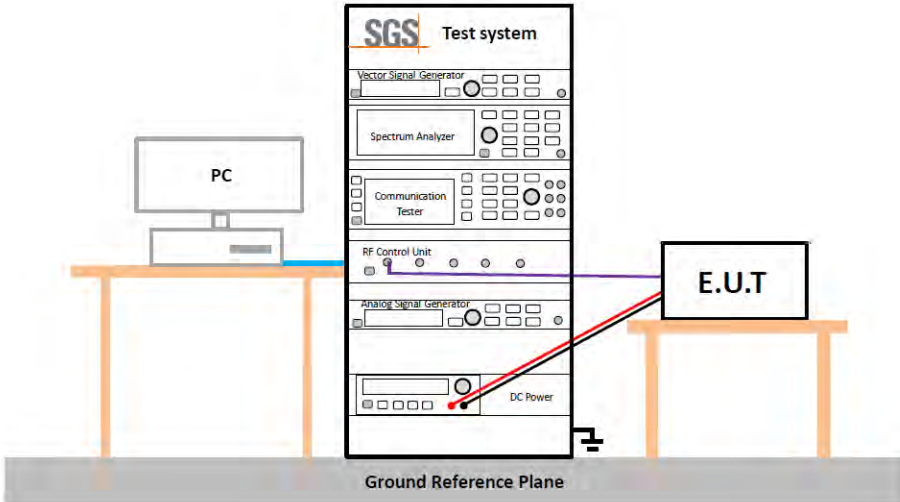
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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 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: Appendix		



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4.9 Radiated Spurious Emissions

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

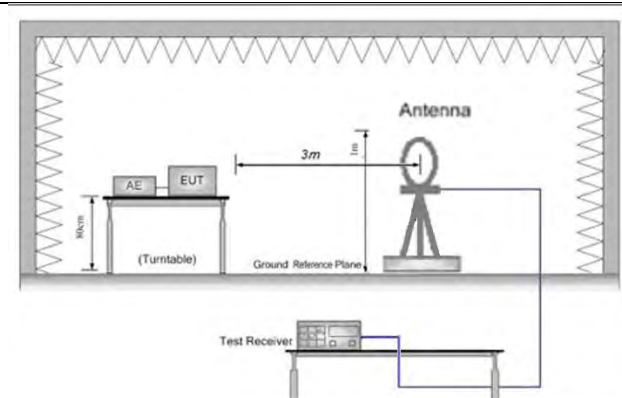


Figure 1. 9kHz to 30MHz

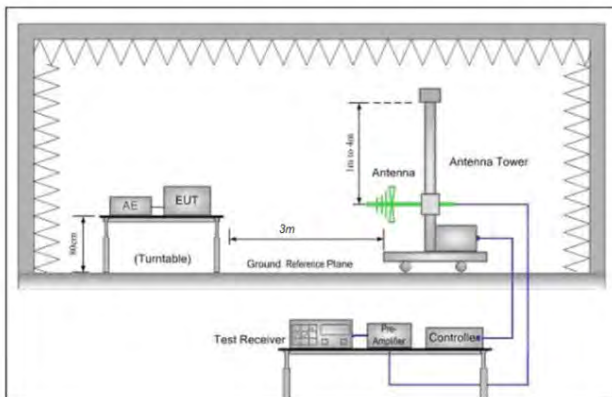


Figure 1. 30MHz to 1GHz

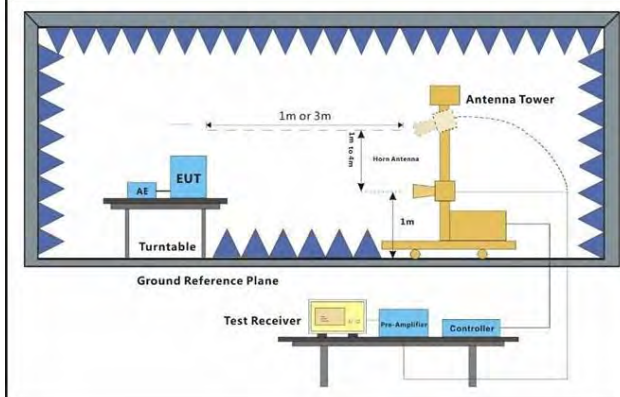


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> 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
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	<p>then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</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 $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if $\text{span} / (\# \text{ of points in sweep}) \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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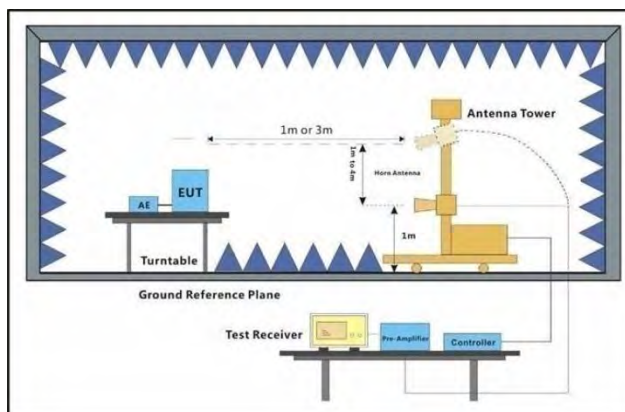
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 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 camber. 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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	i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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

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



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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	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
				2022/5/17	2023/5/16
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	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
				2022/5/28	2023/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR

*Note: This equipment was not used for testing on 2022/5/28.



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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]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	21.52	5170.28	5189.64	---	---
	Ant2	5180	22.28	5170.40	5189.52	---	---
	Ant1	5220	20.36	5210.40	5229.52	---	---
	Ant2	5220	20.64	5210.36	5229.64	---	---
	Ant1	5240	22.04	5230.20	5249.64	---	---
	Ant2	5240	20.44	5230.32	5249.56	---	---
	Ant1	5260	21.48	5248.80	5270.28	---	---
	Ant2	5260	20.80	5249.36	5270.16	---	---
	Ant1	5300	22.92	5288.52	5311.44	---	---
	Ant2	5300	20.64	5289.40	5310.04	---	---
	Ant1	5320	21.88	5309.24	5331.12	---	---
	Ant2	5320	20.72	5309.48	5330.20	---	---
	Ant1	5500	22.52	5488.40	5510.92	---	---
	Ant2	5500	20.60	5489.52	5510.12	---	---
	Ant1	5580	23.08	5568.36	5591.44	---	---
	Ant2	5580	20.28	5569.76	5590.04	---	---
	Ant1	5700	20.64	5689.56	5710.20	---	---
	Ant2	5700	20.56	5689.52	5710.08	---	---
	Ant1	5745	20.84	5734.44	5755.28	---	---
	Ant2	5745	20.56	5734.72	5755.28	---	---
	Ant1	5785	20.92	5774.16	5795.08	---	---
	Ant2	5785	20.80	5774.32	5795.12	---	---
	Ant1	5825	21.56	5814.44	5836.00	---	---
	Ant2	5825	23.24	5812.28	5835.52	---	---
11N20MIMO	Ant1	5180	23.44	5168.76	5192.20	---	---
	Ant2	5180	21.32	5169.28	5190.60	---	---
	Ant1	5220	21.68	5208.64	5230.32	---	---
	Ant2	5220	21.36	5209.36	5230.72	---	---
	Ant1	5240	21.12	5229.44	5250.56	---	---
	Ant2	5240	22.08	5228.68	5250.76	---	---
	Ant1	5260	22.08	5248.80	5270.88	---	---
	Ant2	5260	21.56	5249.32	5270.88	---	---
	Ant1	5300	22.32	5288.92	5311.24	---	---
	Ant2	5300	21.64	5289.04	5310.68	---	---
	Ant1	5320	21.60	5309.24	5330.84	---	---
	Ant2	5320	22.76	5308.60	5331.36	---	---
	Ant1	5500	23.60	5487.96	5511.56	---	---
	Ant2	5500	23.00	5488.24	5511.24	---	---
	Ant1	5580	23.48	5567.72	5591.20	---	---
	Ant2	5580	23.52	5567.96	5591.48	---	---
	Ant1	5700	22.52	5689.00	5711.52	---	---
	Ant2	5700	21.84	5688.88	5710.72	---	---
	Ant1	5745	23.88	5733.04	5756.92	---	---
	Ant2	5745	23.12	5733.68	5756.80	---	---
	Ant1	5785	23.04	5773.40	5796.44	---	---
	Ant2	5785	22.32	5774.28	5796.60	---	---
	Ant1	5825	21.08	5814.24	5835.32	---	---
	Ant2	5825	21.60	5814.08	5835.68	---	---
11N40MIMO	Ant1	5190	40.72	5169.44	5210.16	---	---
	Ant2	5190	40.16	5169.68	5209.84	---	---
	Ant1	5230	40.56	5209.28	5249.84	---	---
	Ant2	5230	40.72	5209.36	5250.08	---	---



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	Ant1	5270	41.92	5249.36	5291.28	---	---
	Ant2	5270	40.88	5249.52	5290.40	---	---
	Ant1	5310	41.28	5289.28	5330.56	---	---
	Ant2	5310	40.88	5289.28	5330.16	---	---
	Ant1	5510	40.56	5489.76	5530.32	---	---
	Ant2	5510	40.48	5489.68	5530.16	---	---
	Ant1	5550	41.28	5529.20	5570.48	---	---
	Ant2	5550	40.00	5530.00	5570.00	---	---
	Ant1	5670	40.72	5649.60	5690.32	---	---
	Ant2	5670	40.40	5649.84	5690.24	---	---
	Ant1	5755	40.56	5734.76	5775.32	---	---
	Ant2	5755	41.84	5733.64	5775.48	---	---
	Ant1	5795	43.04	5773.32	5816.36	---	---
	Ant2	5795	40.72	5774.60	5815.32	---	---
11AC20MIMO	Ant1	5180	20.76	5169.60	5190.36	---	---
	Ant2	5180	20.56	5169.64	5190.20	---	---
	Ant1	5220	20.60	5209.60	5230.20	---	---
	Ant2	5220	20.52	5209.76	5230.28	---	---
	Ant1	5240	20.56	5229.56	5250.12	---	---
	Ant2	5240	20.20	5229.88	5250.08	---	---
	Ant1	5260	21.16	5249.36	5270.52	---	---
	Ant2	5260	21.76	5248.88	5270.64	---	---
	Ant1	5300	23.36	5288.76	5312.12	---	---
	Ant2	5300	22.36	5288.68	5311.04	---	---
	Ant1	5320	23.84	5307.76	5331.60	---	---
	Ant2	5320	23.52	5307.68	5331.20	---	---
	Ant1	5500	23.60	5487.84	5511.44	---	---
	Ant2	5500	23.96	5487.56	5511.52	---	---
	Ant1	5580	20.64	5569.68	5590.32	---	---
	Ant2	5580	20.64	5569.64	5590.28	---	---
	Ant1	5700	20.64	5689.64	5710.28	---	---
	Ant2	5700	20.44	5689.80	5710.24	---	---
	Ant1	5745	20.52	5734.68	5755.20	---	---
	Ant2	5745	20.52	5734.68	5755.20	---	---
	Ant1	5785	20.64	5774.64	5795.28	---	---
	Ant2	5785	20.60	5774.60	5795.20	---	---
	Ant1	5825	20.60	5814.64	5835.24	---	---
	Ant2	5825	20.84	5814.48	5835.32	---	---
11AC40MIMO	Ant1	5190	39.84	5170.00	5209.84	---	---
	Ant2	5190	39.68	5170.00	5209.68	---	---
	Ant1	5230	41.68	5208.56	5250.24	---	---
	Ant2	5230	39.92	5209.92	5249.84	---	---
	Ant1	5270	40.88	5249.12	5290.00	---	---
	Ant2	5270	40.88	5249.12	5290.00	---	---
	Ant1	5310	39.60	5290.16	5329.76	---	---
	Ant2	5310	39.68	5290.00	5329.68	---	---
	Ant1	5510	40.48	5489.52	5530.00	---	---
	Ant2	5510	39.84	5489.92	5529.76	---	---
	Ant1	5550	39.28	5530.40	5569.68	---	---
	Ant2	5550	39.36	5530.32	5569.68	---	---
	Ant1	5670	41.60	5649.36	5690.96	---	---
	Ant2	5670	39.52	5650.16	5689.68	---	---
	Ant1	5755	43.52	5733.56	5777.08	---	---
	Ant2	5755	39.44	5735.24	5774.68	---	---
	Ant1	5795	40.56	5774.44	5815.00	---	---
	Ant2	5795	40.48	5774.44	5814.92	---	---
11AC80MIMO	Ant1	5210	82.40	5168.72	5251.12	---	---



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	Ant2	5210	81.92	5169.20	5251.12	---	---
	Ant1	5290	81.92	5249.04	5330.96	---	---
	Ant2	5290	81.60	5249.04	5330.64	---	---
	Ant1	5530	82.56	5488.88	5571.44	---	---
	Ant2	5530	81.44	5489.20	5570.64	---	---
	Ant1	5610	81.44	5569.20	5650.64	---	---
	Ant2	5610	81.60	5569.20	5650.80	---	---
	Ant1	5775	82.72	5733.40	5816.12	---	---
11AX20MIMO	Ant2	5775	82.08	5733.72	5815.80	---	---
	Ant1	5180	21.32	5169.36	5190.68	---	---
	Ant2	5180	21.08	5169.32	5190.40	---	---
	Ant1	5220	21.28	5209.32	5230.60	---	---
	Ant2	5220	20.92	5209.52	5230.44	---	---
	Ant1	5240	21.28	5229.40	5250.68	---	---
	Ant2	5240	21.28	5229.32	5250.60	---	---
	Ant1	5260	21.56	5249.08	5270.64	---	---
	Ant2	5260	21.40	5249.16	5270.56	---	---
	Ant1	5300	22.56	5288.16	5310.72	---	---
	Ant2	5300	21.40	5289.24	5310.64	---	---
	Ant1	5320	21.52	5309.16	5330.68	---	---
	Ant2	5320	21.44	5309.12	5330.56	---	---
	Ant1	5500	21.40	5489.28	5510.68	---	---
	Ant2	5500	21.20	5489.40	5510.60	---	---
	Ant1	5580	21.20	5569.36	5590.56	---	---
	Ant2	5580	21.28	5569.28	5590.56	---	---
	Ant1	5700	21.12	5689.36	5710.48	---	---
	Ant2	5700	21.08	5689.44	5710.52	---	---
	Ant1	5745	22.32	5733.56	5755.88	---	---
	Ant2	5745	21.20	5734.28	5755.48	---	---
	Ant1	5785	23.52	5774.00	5797.52	---	---
	Ant2	5785	21.40	5774.20	5795.60	---	---
11AX40MIMO	Ant1	5825	22.04	5813.56	5835.60	---	---
	Ant2	5825	22.28	5813.32	5835.60	---	---
	Ant1	5190	40.32	5169.76	5210.08	---	---
	Ant2	5190	40.48	5169.68	5210.16	---	---
	Ant1	5230	40.24	5209.84	5250.08	---	---
	Ant2	5230	40.32	5209.76	5250.08	---	---
	Ant1	5270	40.40	5249.76	5290.16	---	---
	Ant2	5270	40.56	5249.52	5290.08	---	---
	Ant1	5310	40.32	5289.68	5330.00	---	---
	Ant2	5310	40.56	5289.60	5330.16	---	---
	Ant1	5510	40.24	5489.84	5530.08	---	---
	Ant2	5510	40.40	5489.76	5530.16	---	---
	Ant1	5550	42.80	5527.68	5570.48	---	---
	Ant2	5550	43.28	5527.84	5571.12	---	---
	Ant1	5670	40.32	5649.84	5690.16	---	---
	Ant2	5670	40.40	5649.76	5690.16	---	---
11AX80MIMO	Ant1	5755	40.80	5734.52	5775.32	---	---
	Ant2	5755	40.40	5734.76	5775.16	---	---
	Ant1	5795	40.72	5774.52	5815.24	---	---
	Ant2	5795	40.48	5774.60	5815.08	---	---
	Ant1	5210	82.08	5168.88	5250.96	---	---
	Ant2	5210	82.88	5168.56	5251.44	---	---
	Ant1	5290	82.72	5248.56	5331.28	---	---
	Ant2	5290	81.92	5248.88	5330.80	---	---
	Ant1	5530	82.88	5488.24	5571.12	---	---
	Ant2	5530	82.08	5489.04	5571.12	---	---



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	Ant1	5610	81.60	5569.20	5650.80	---	---
	Ant2	5610	82.24	5568.88	5651.12	---	---
	Ant1	5775	83.20	5733.24	5816.44	---	---
	Ant2	5775	82.56	5733.56	5816.12	---	---



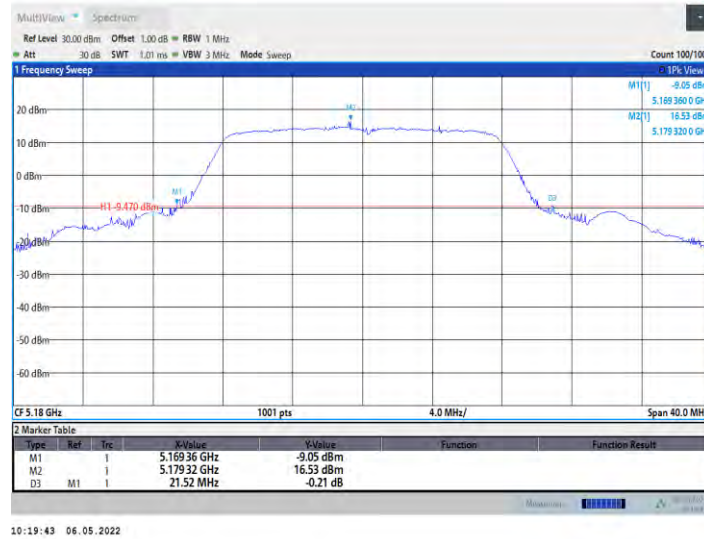
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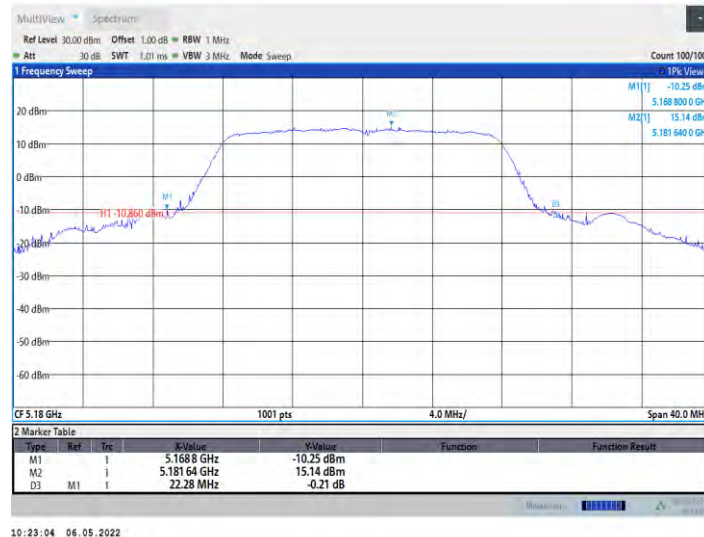
Test Graphs

11A-CDD_Ant1_5180



10:19:43 06.05.2022

11A-CDD_Ant2_5180



10:23:04 06.05.2022



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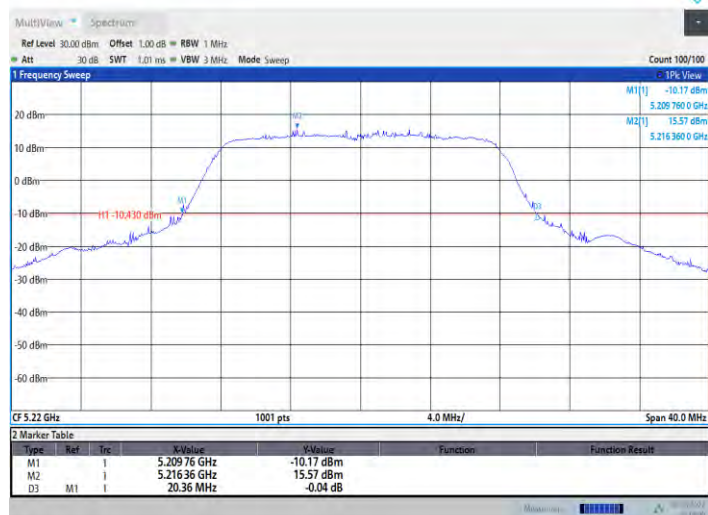
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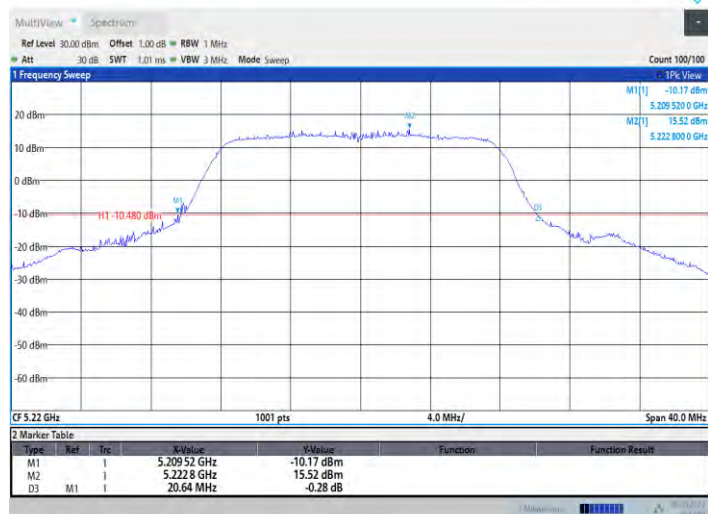
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10:29:07 06.05.2022

11A-CDD_Ant2_5220



10:33:00 06.05.2022



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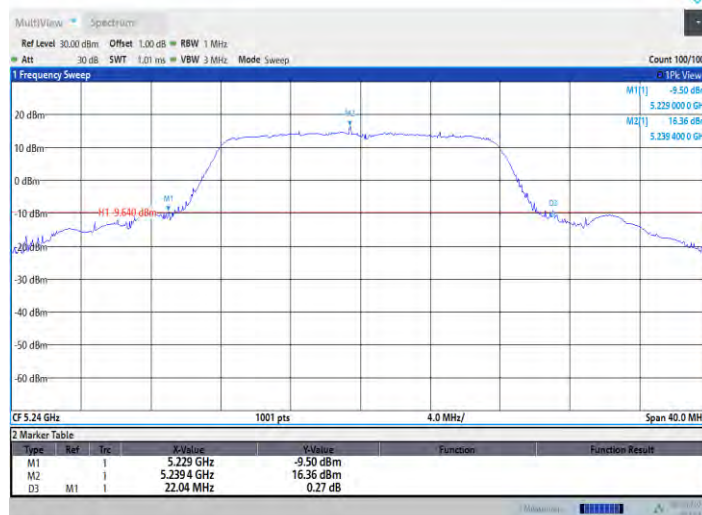
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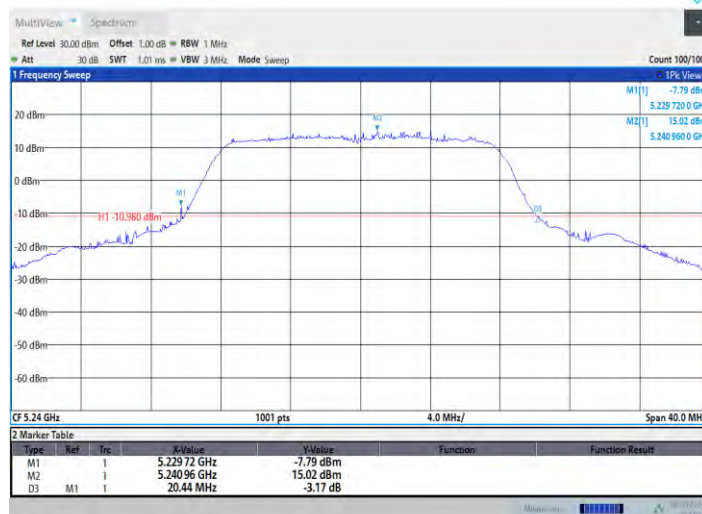
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11A-CDD_Ant1_5240



10:35:33 06.05.2022

11A-CDD_Ant2_5240



10:37:59 06.05.2022



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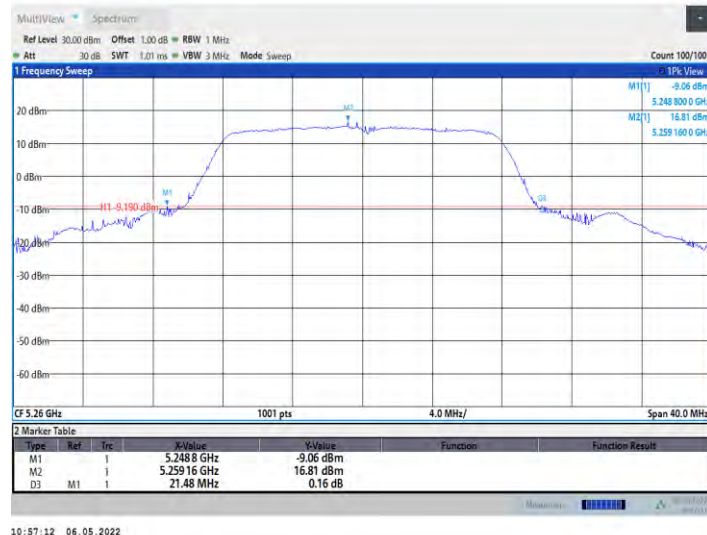
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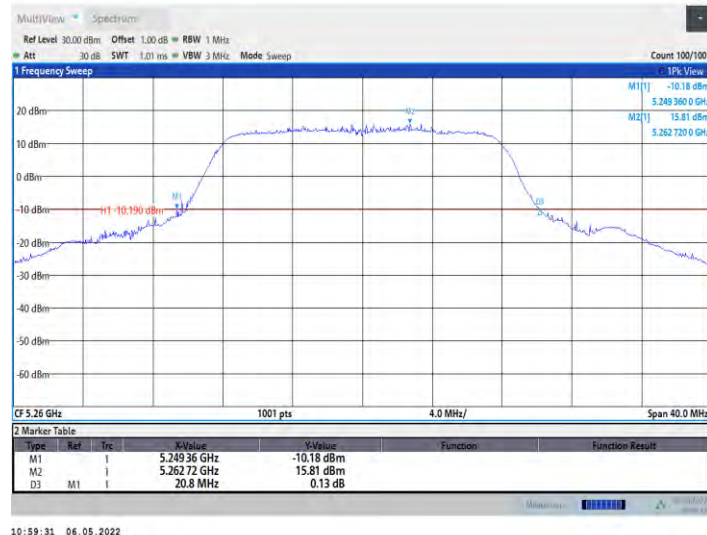
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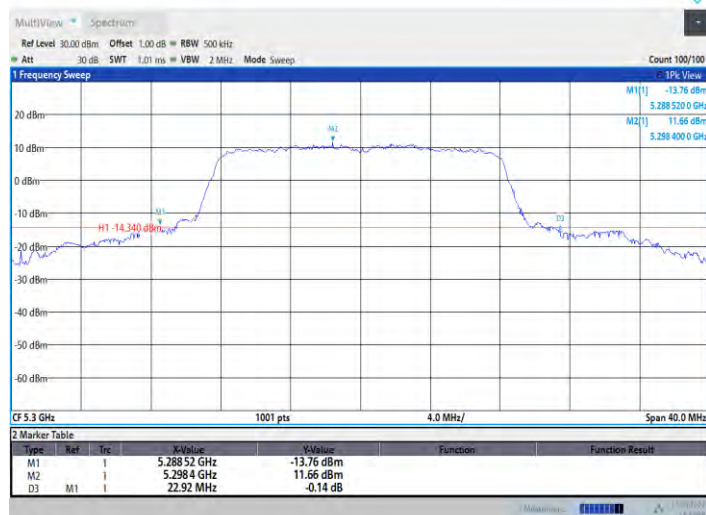
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13:35:57 31.05.2022

11A-CDD_Ant2_5300



11:04:30 06.05.2022



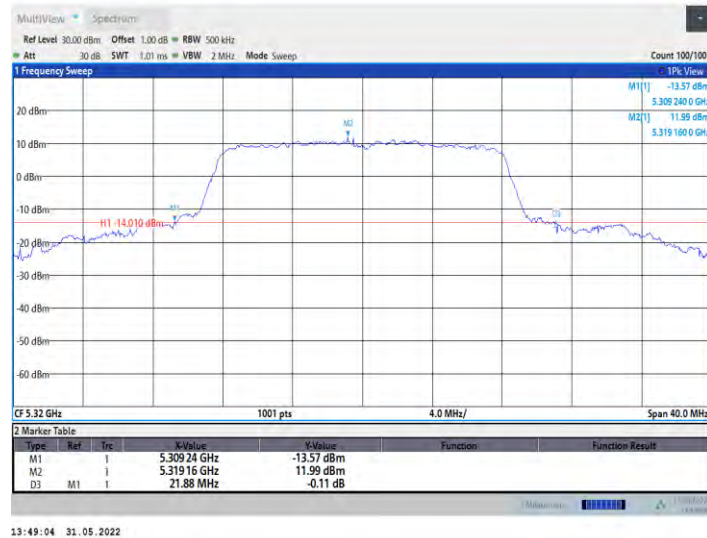
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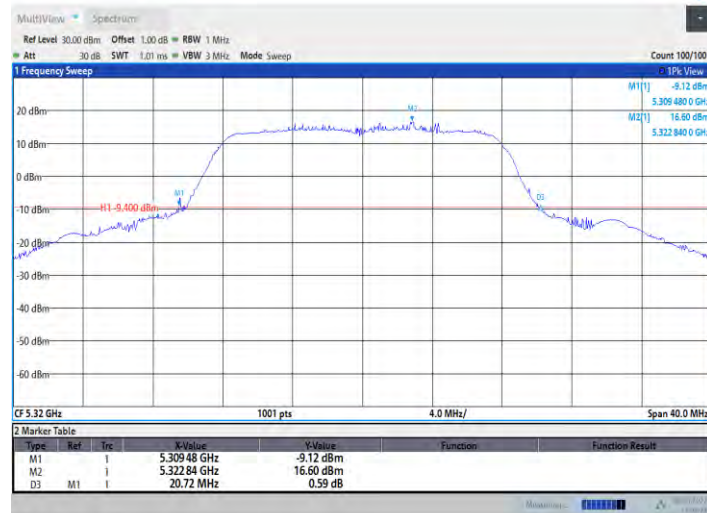
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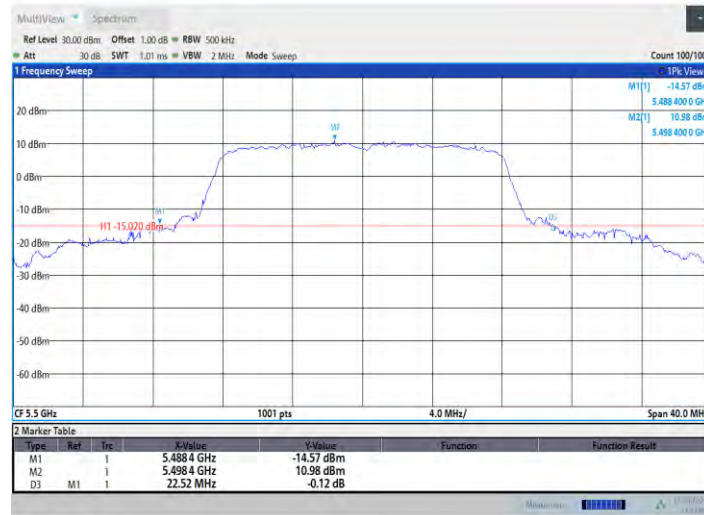


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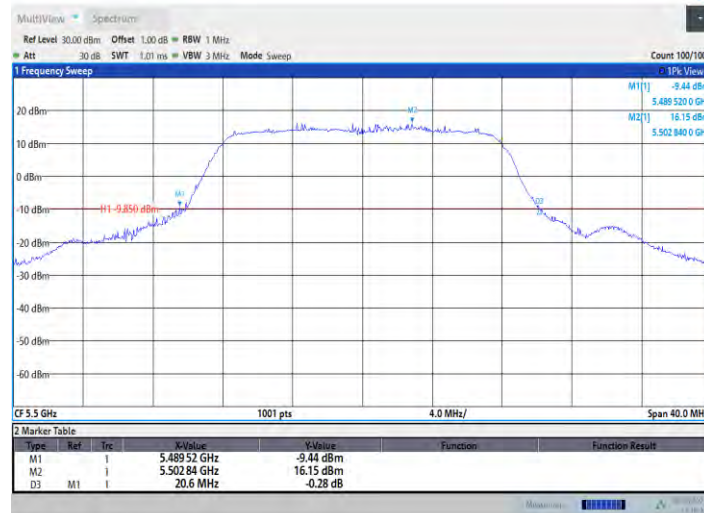
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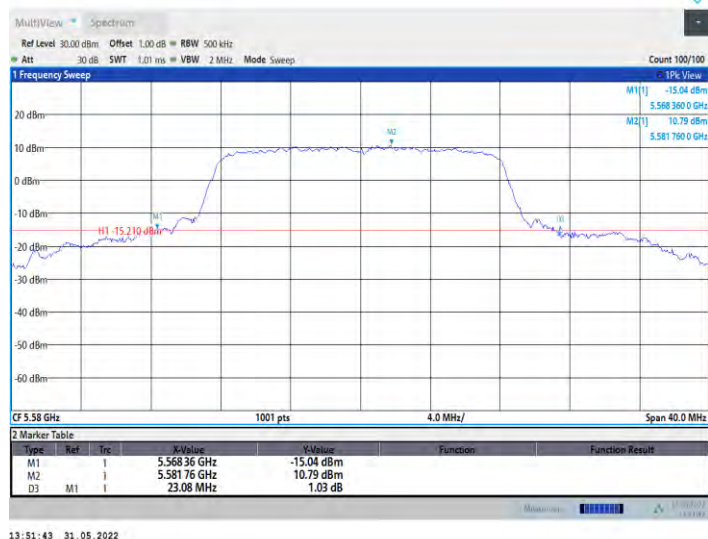
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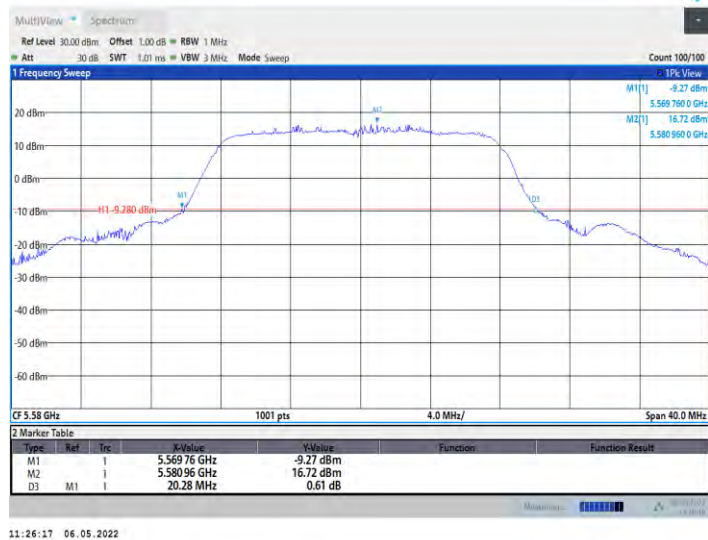
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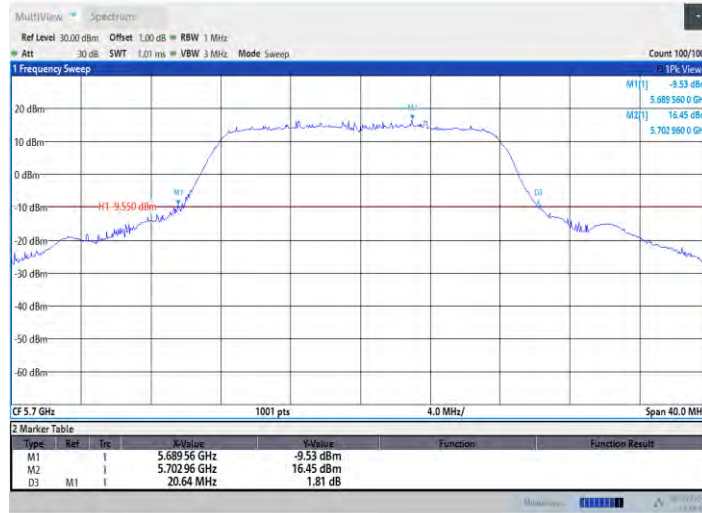


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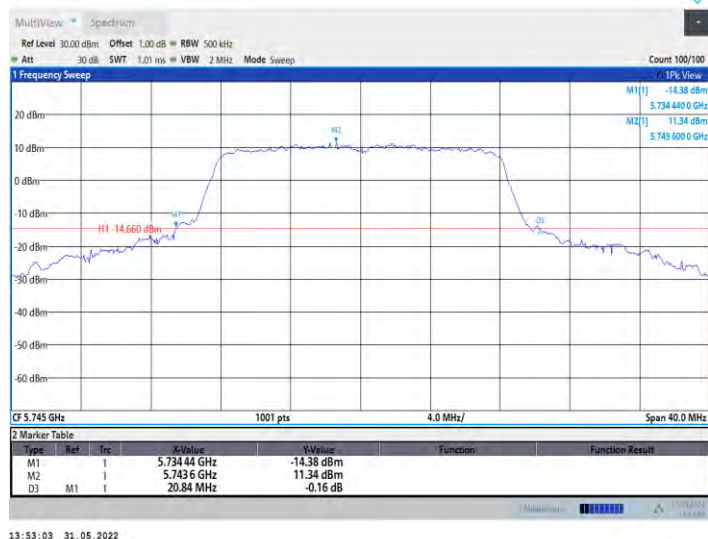
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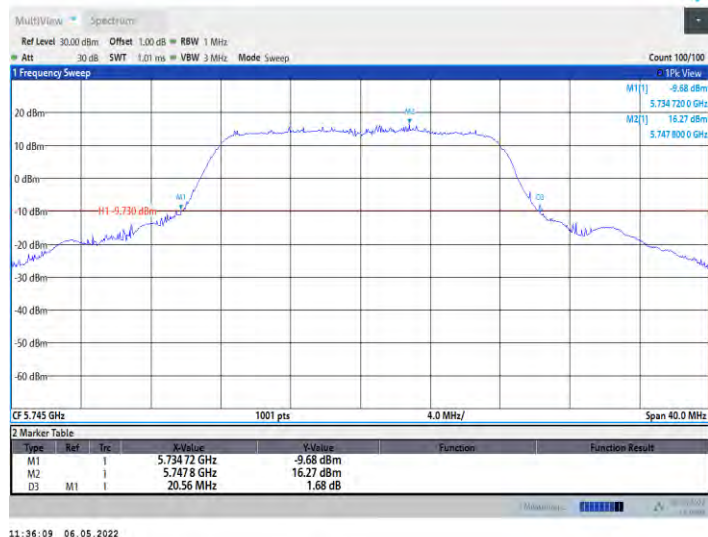
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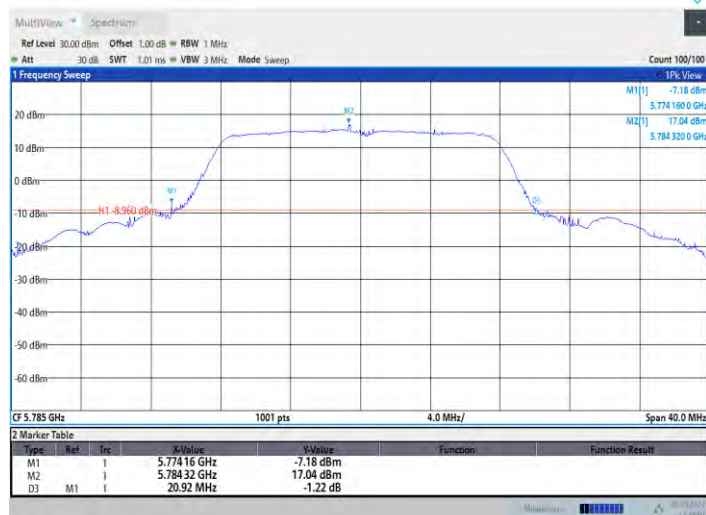
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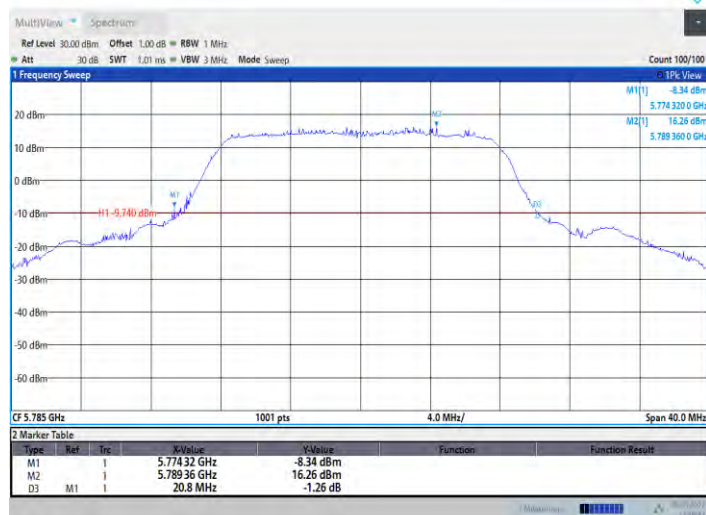
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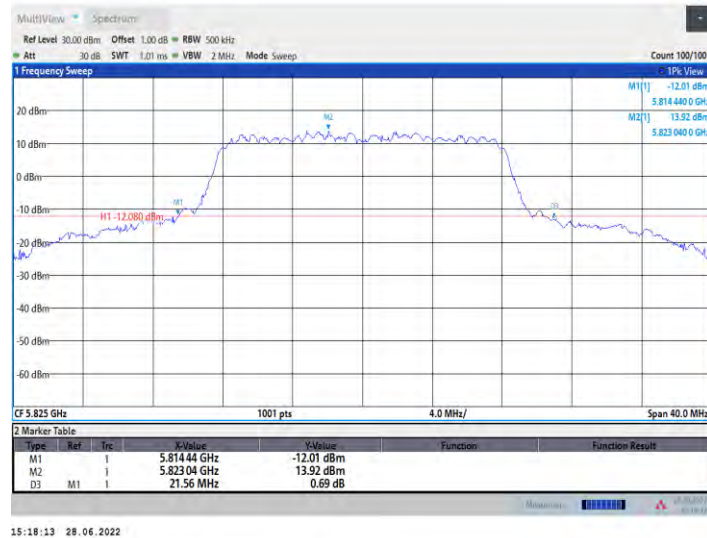
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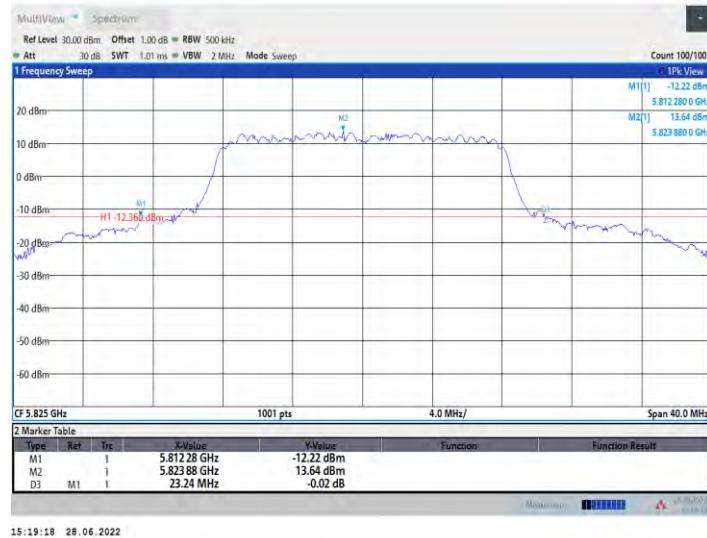
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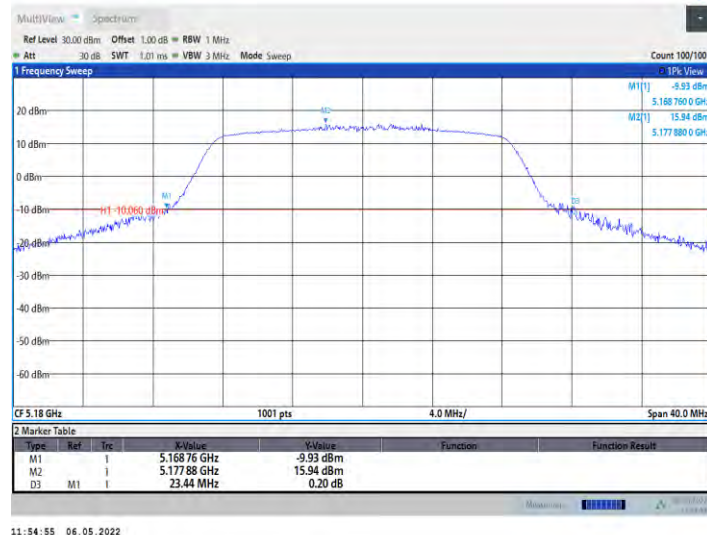
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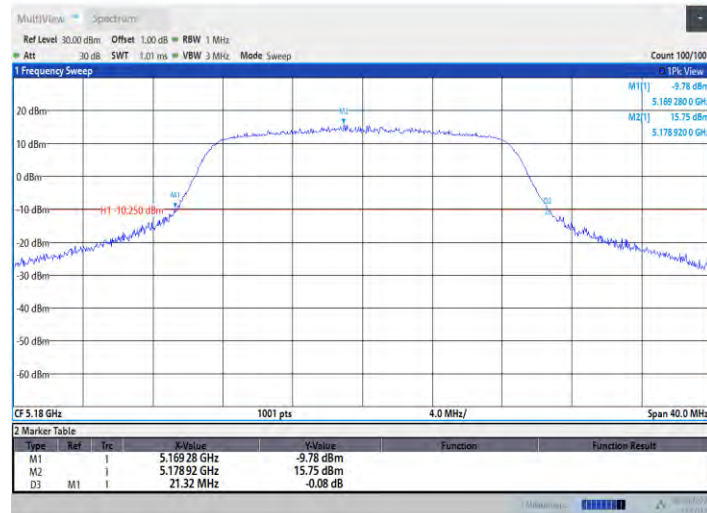
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11N20MIMO_Ant1_5180



11:54:55 06.05.2022

11N20MIMO_Ant2_5180



11:57:14 06.05.2022



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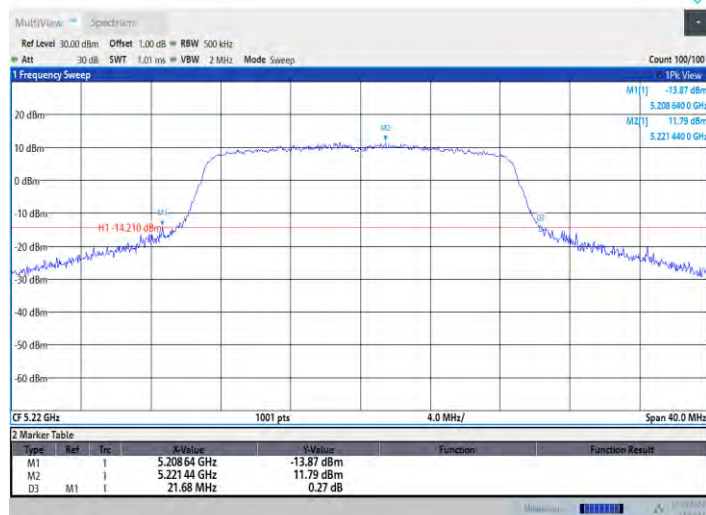
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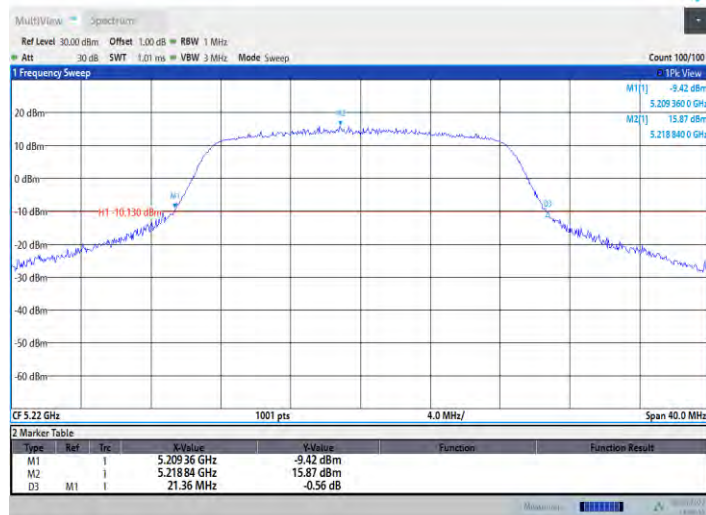
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13:55:38 31.05.2022

11N20MIMO_Ant2_5220



13:06:55 06.05.2022



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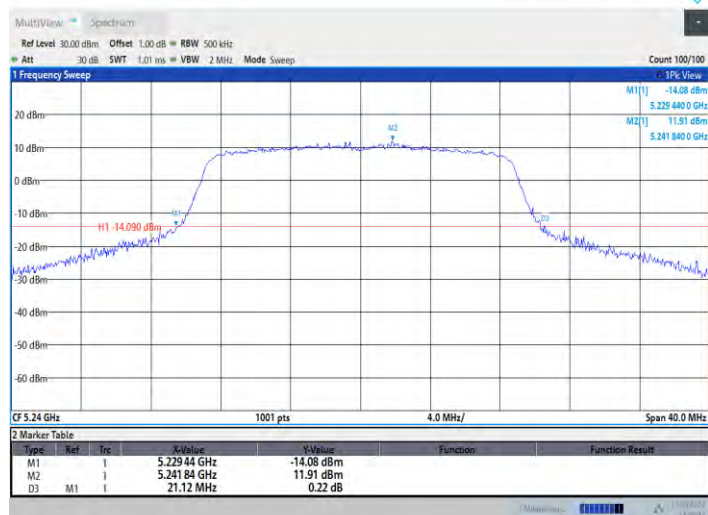
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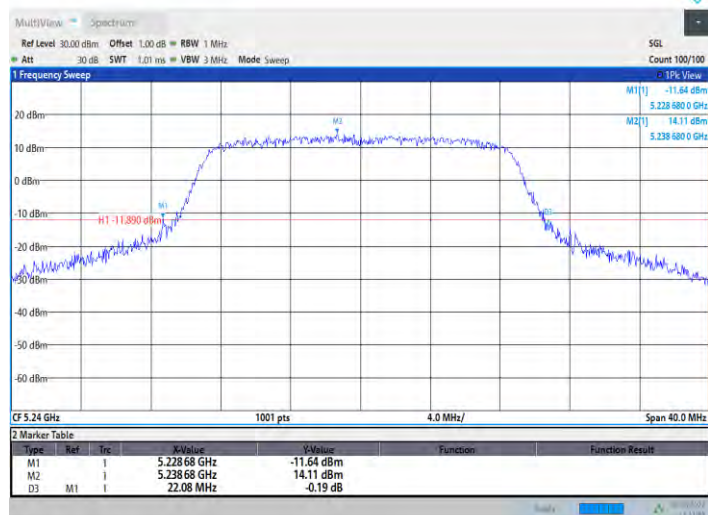
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13:11:49 06.05.2022



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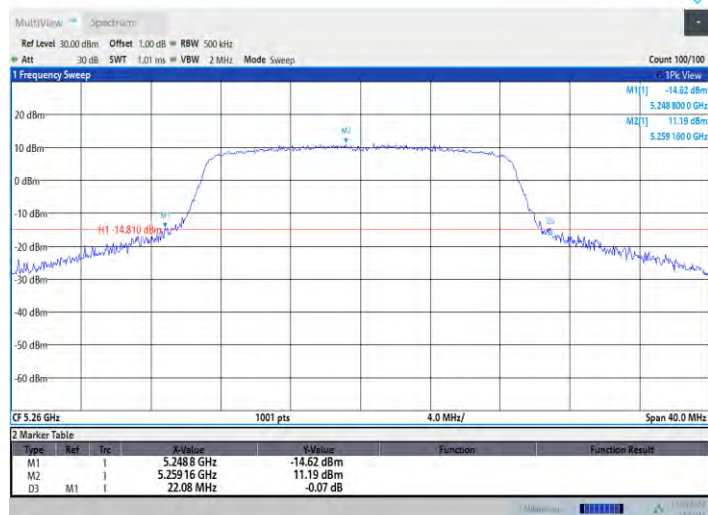
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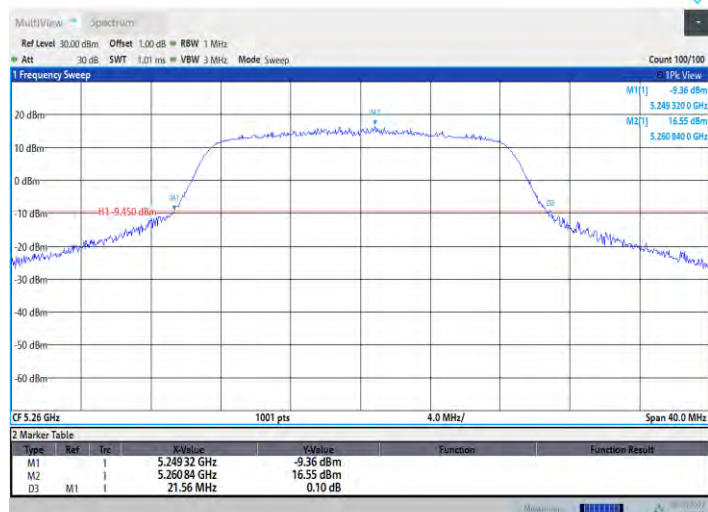
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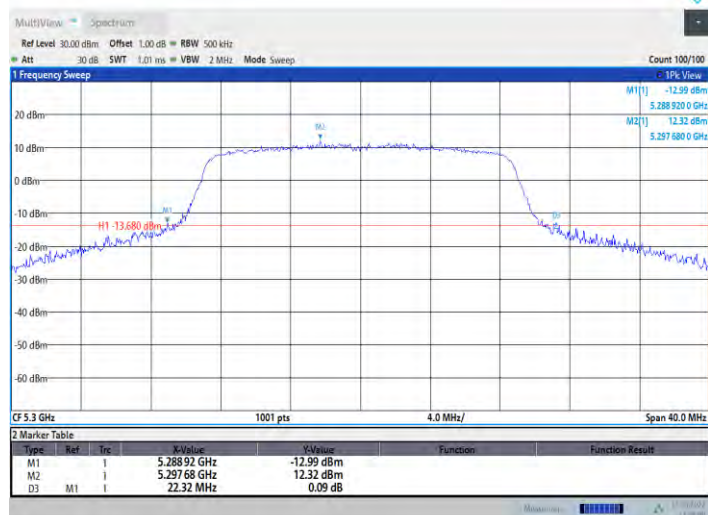
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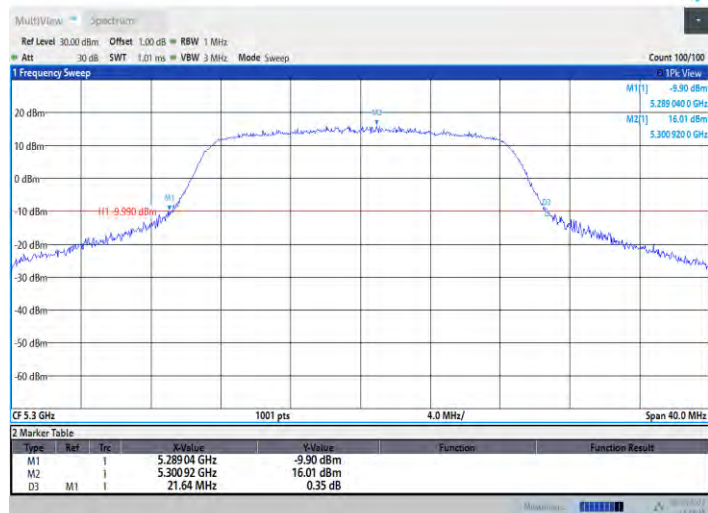
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13:24:18 06.05.2022



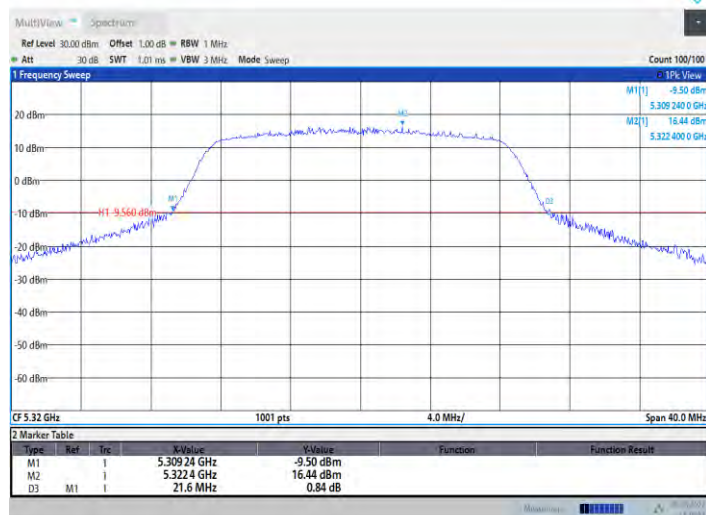
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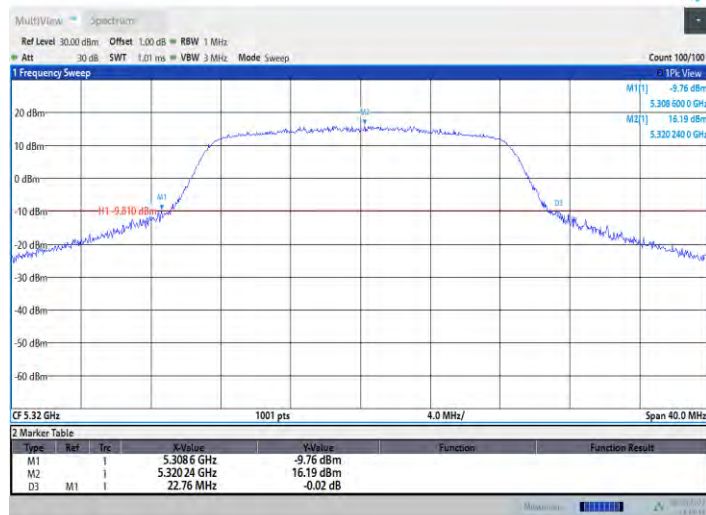
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13:29:15 06.05.2022



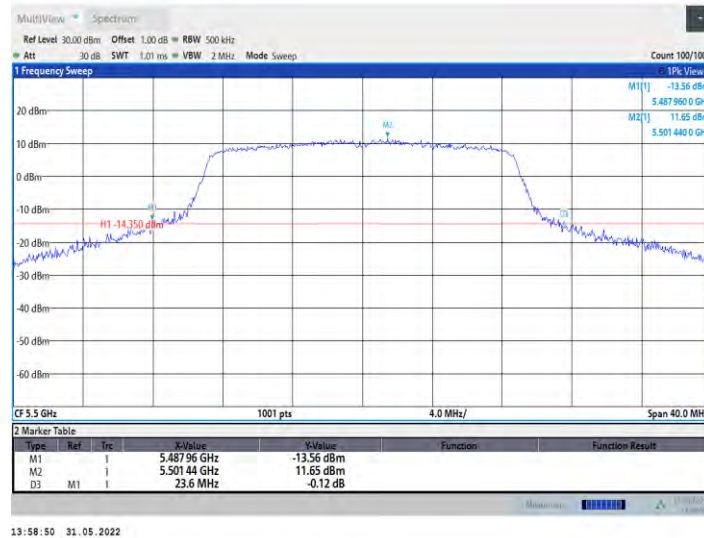
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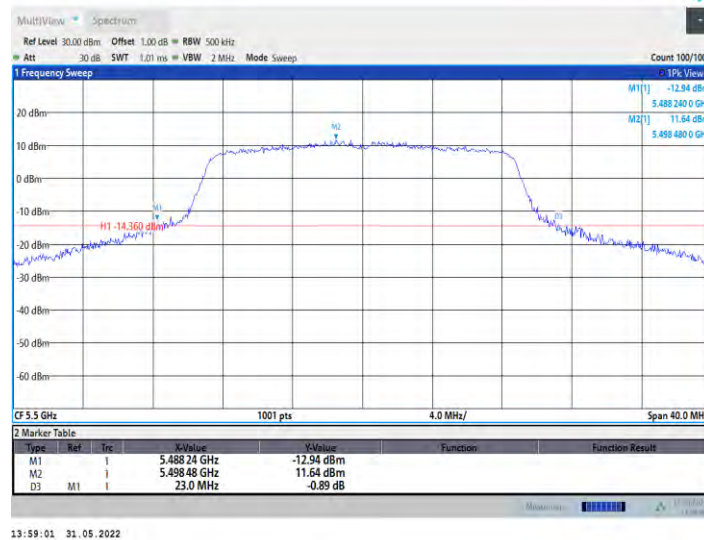
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11N20MIMO_Ant1_5500



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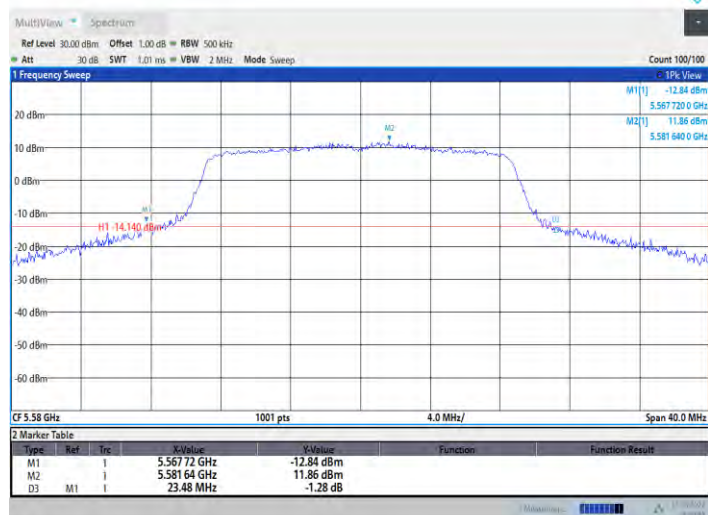
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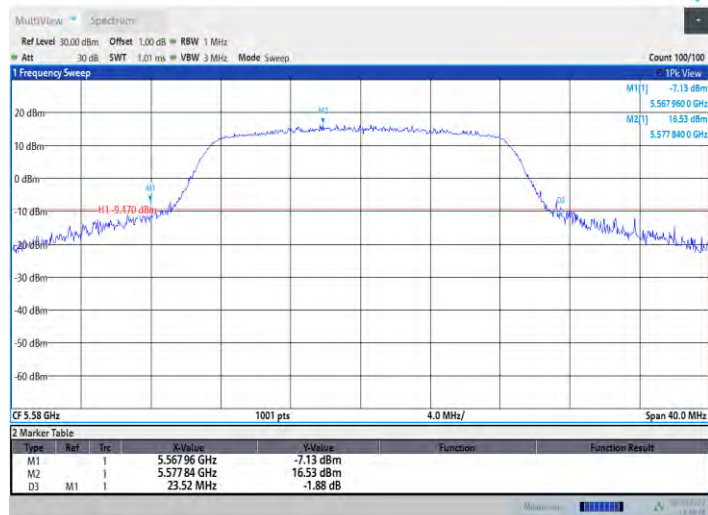
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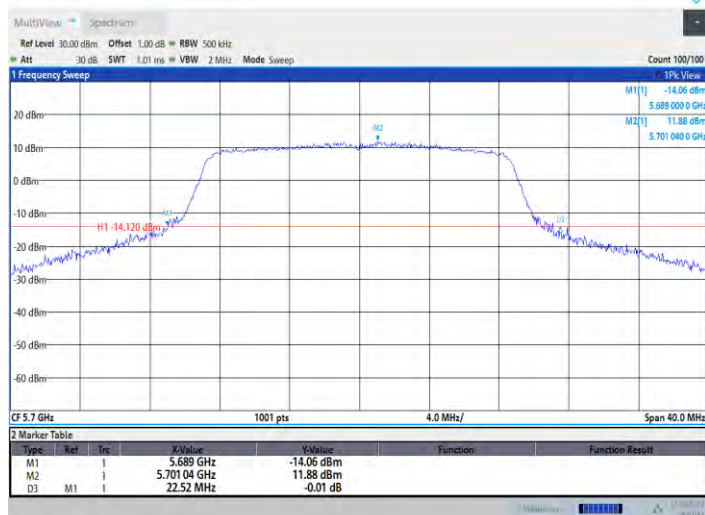
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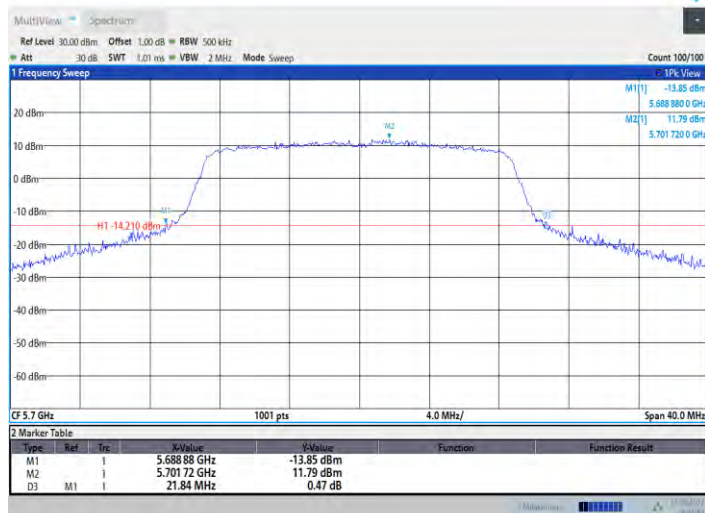
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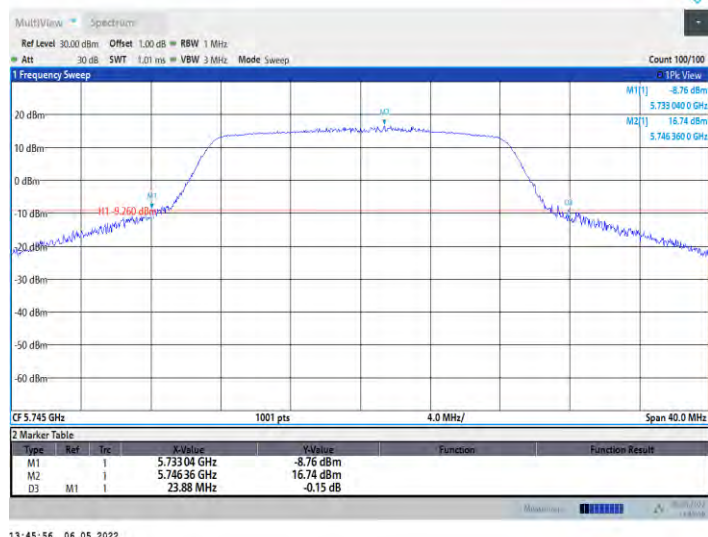
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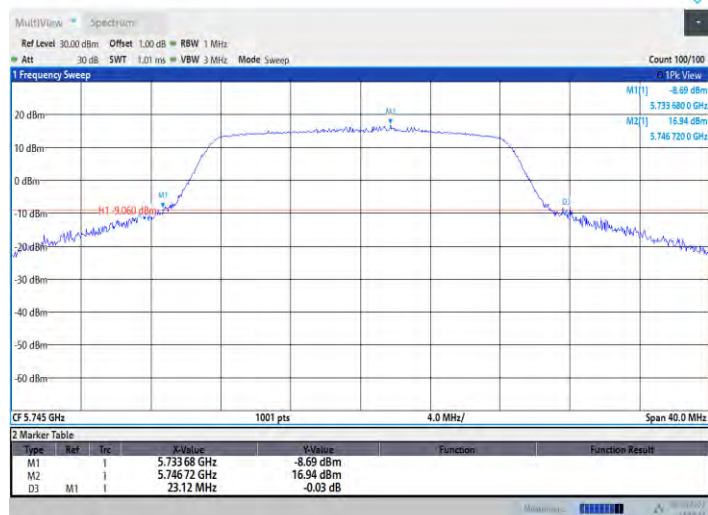
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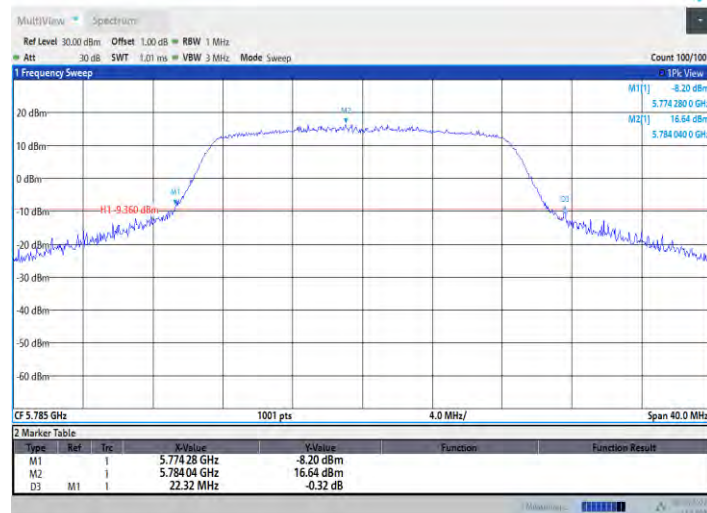
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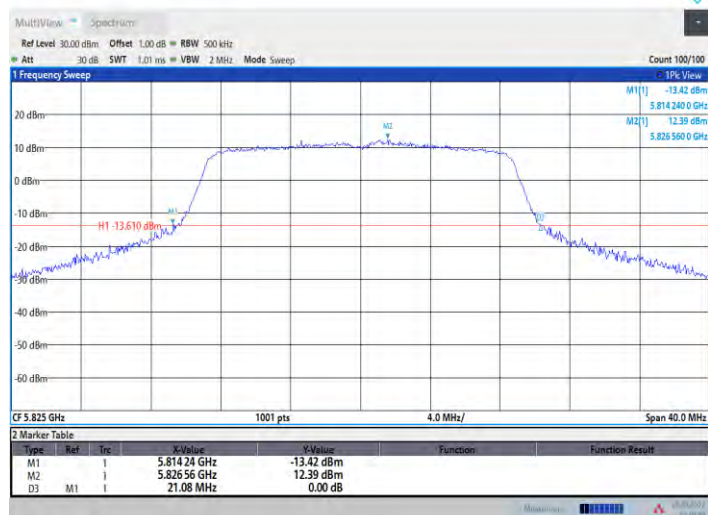
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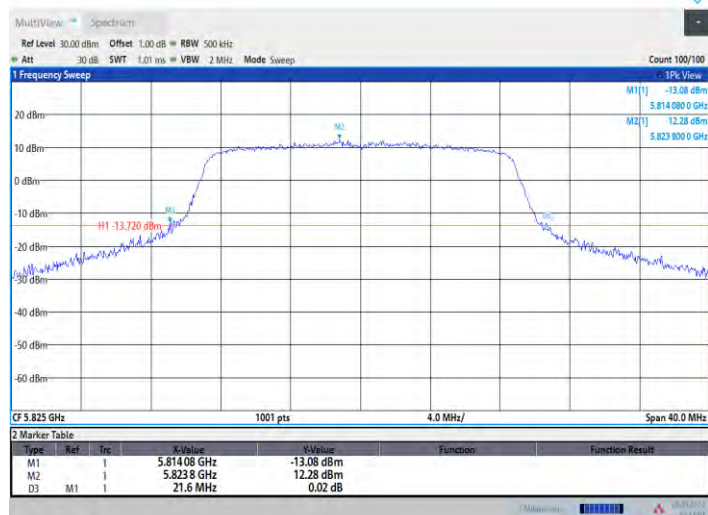
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15:20:49 28.06.2022

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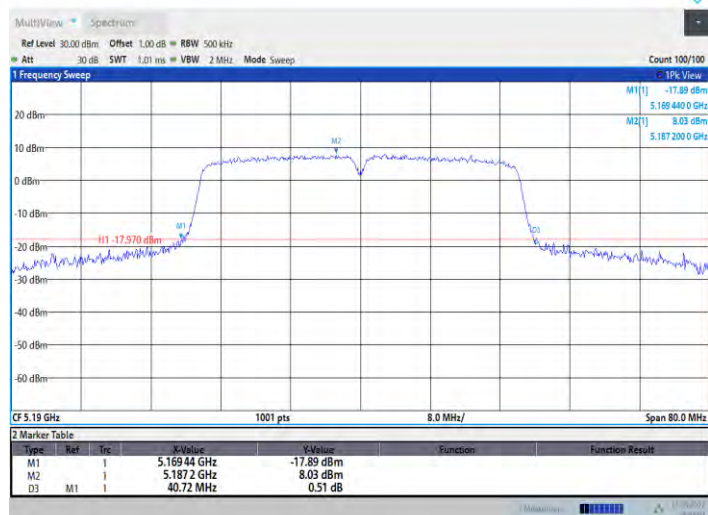
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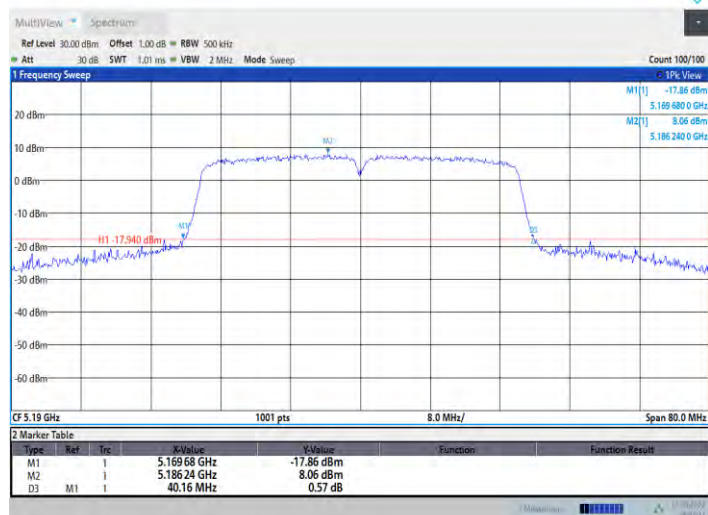
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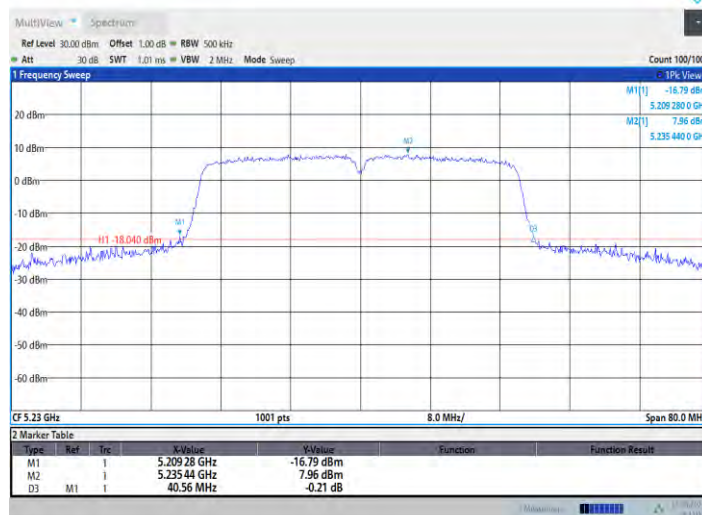
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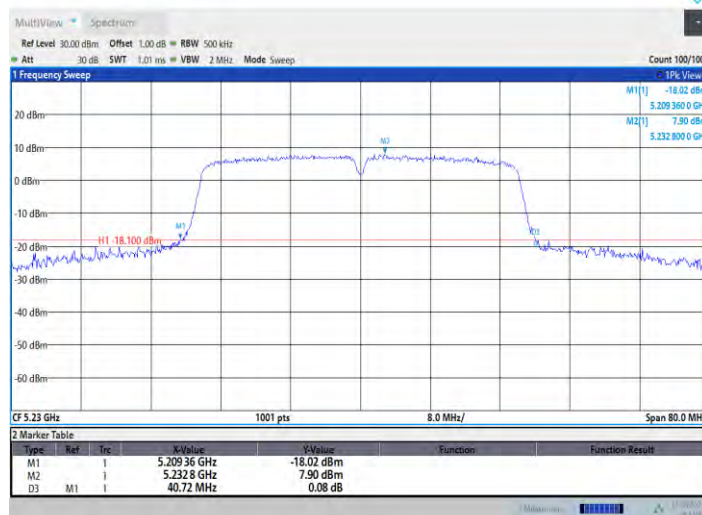
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14:11:20 31.05.2022

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14:11:30 31.05.2022



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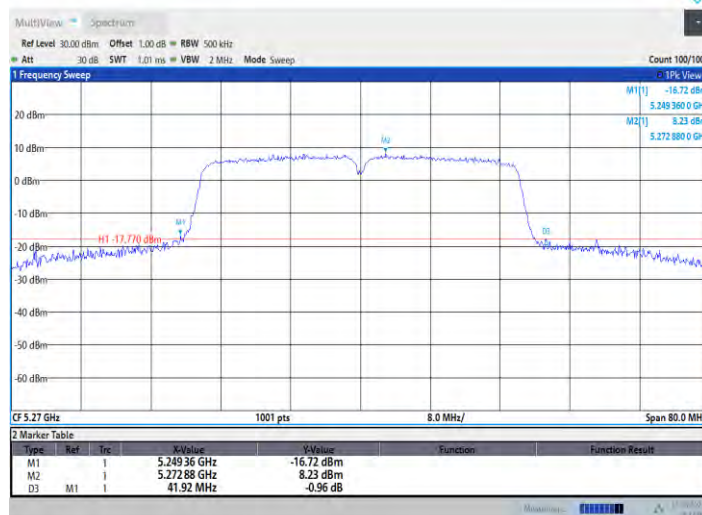
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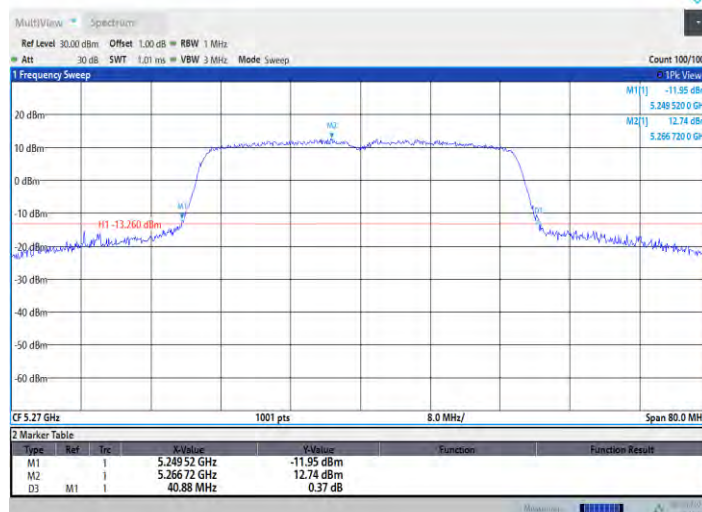
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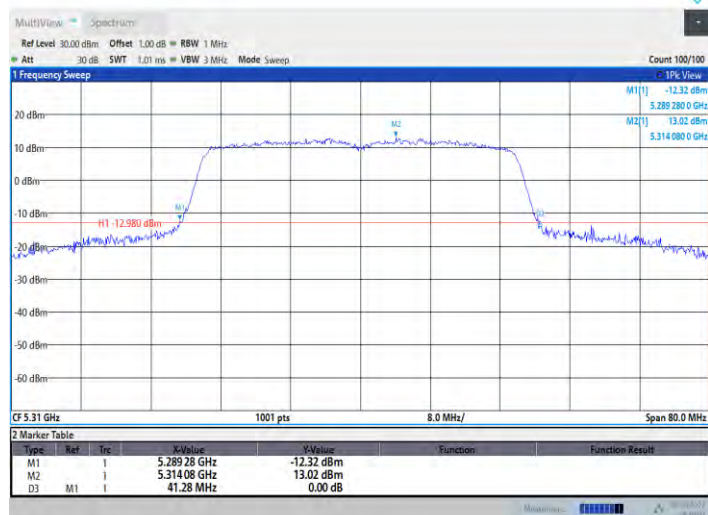
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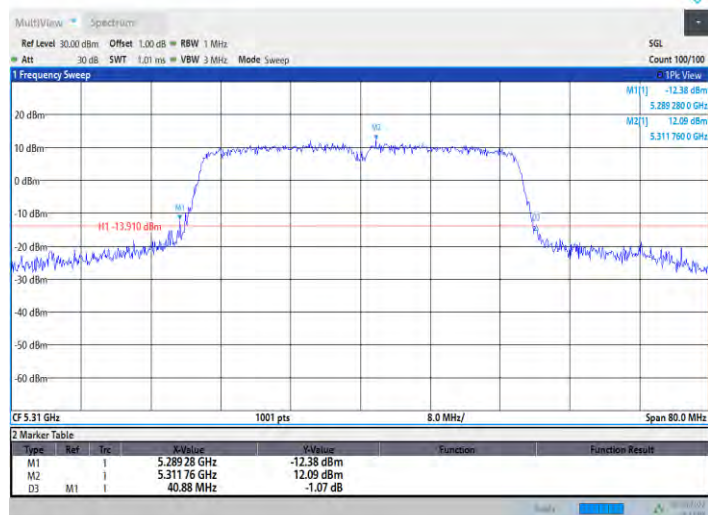
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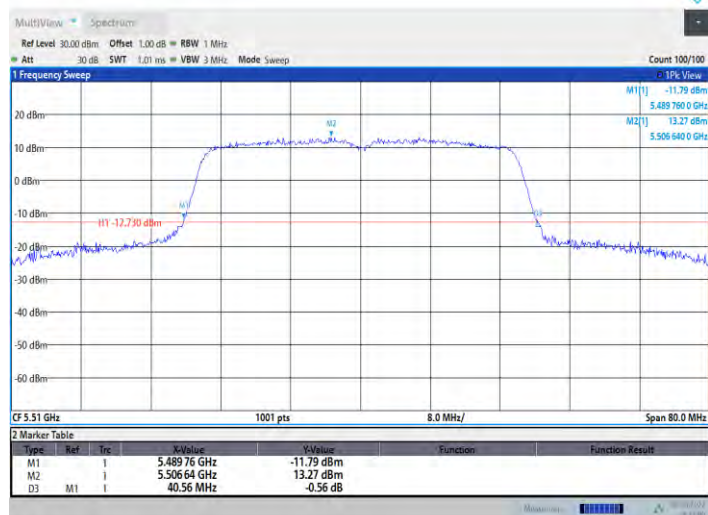


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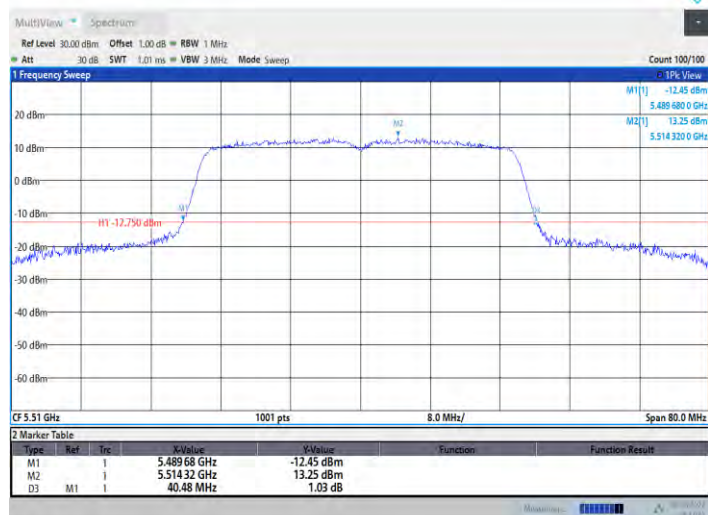
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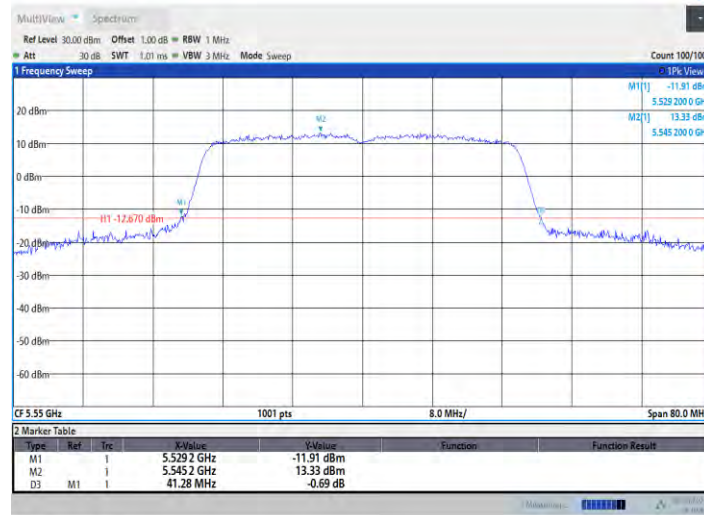


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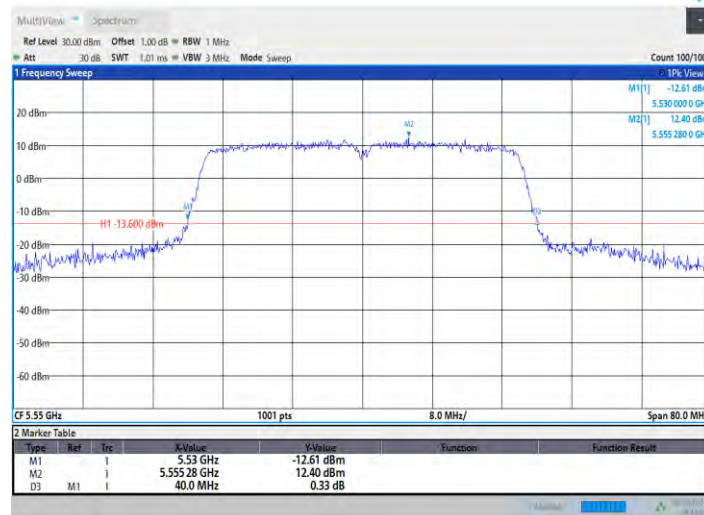
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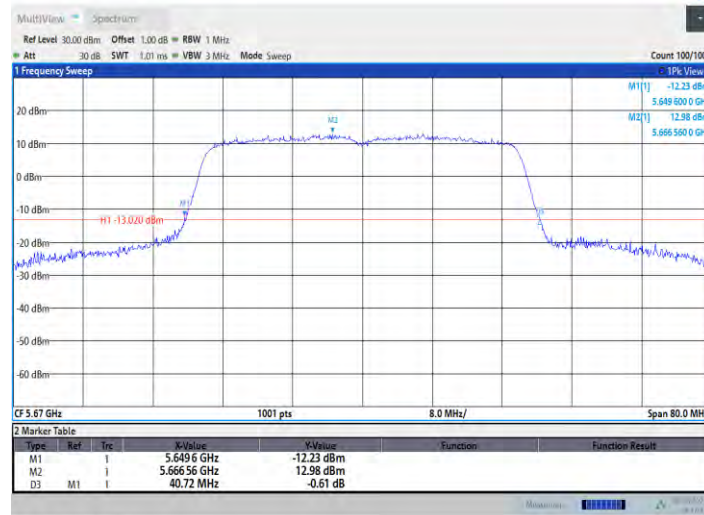
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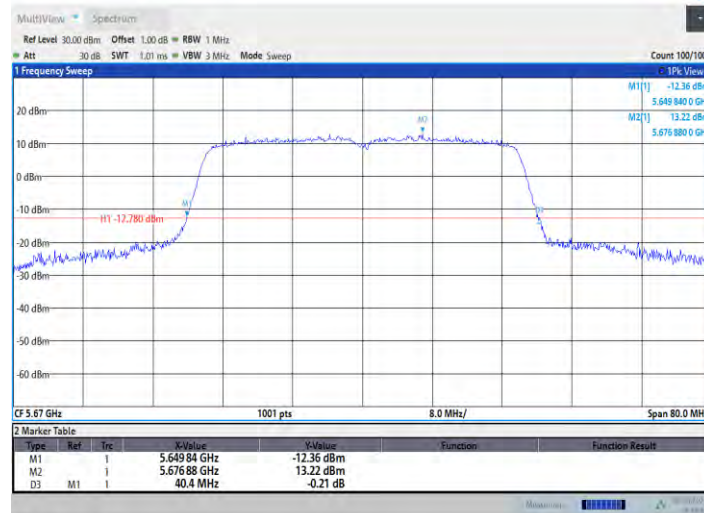
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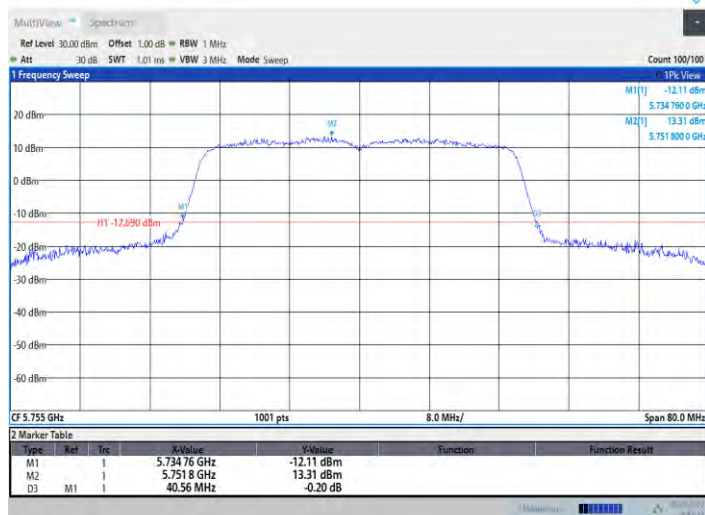
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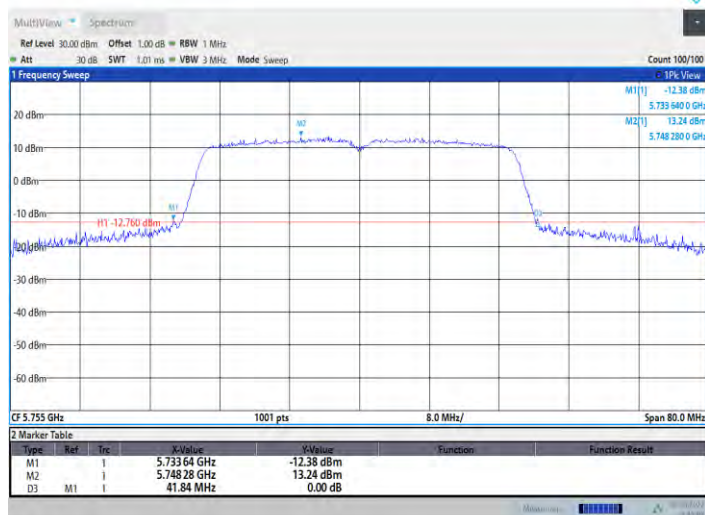
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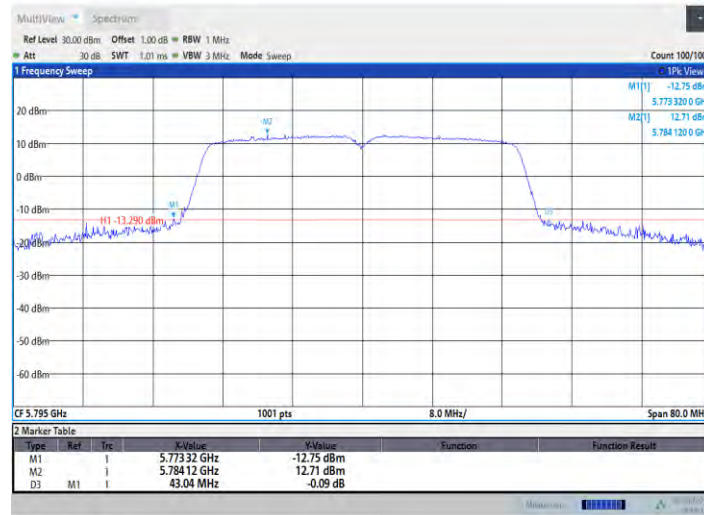
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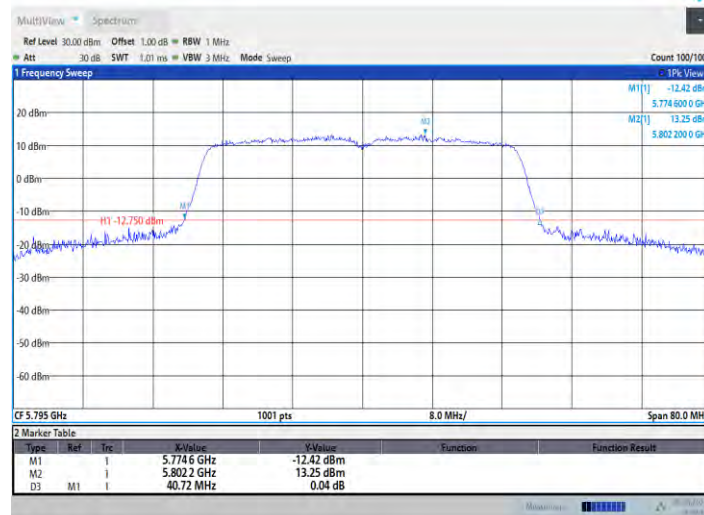
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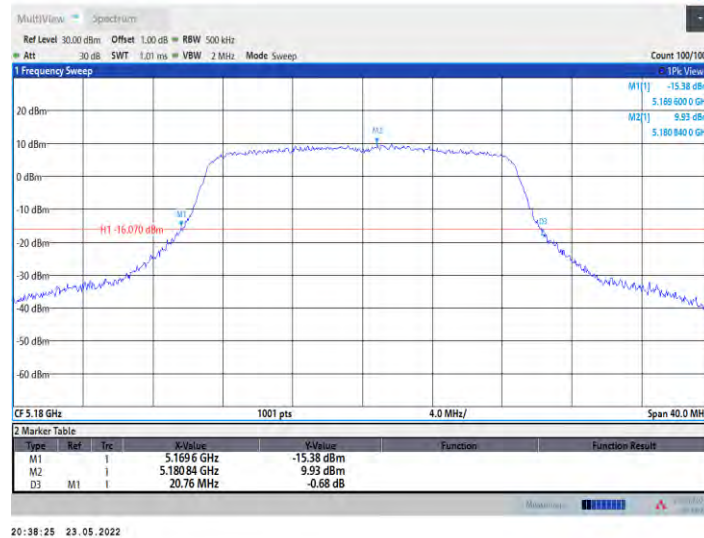
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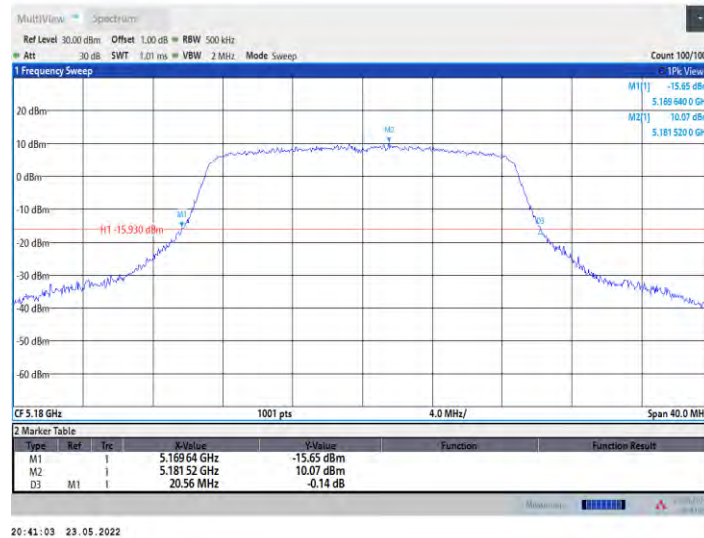
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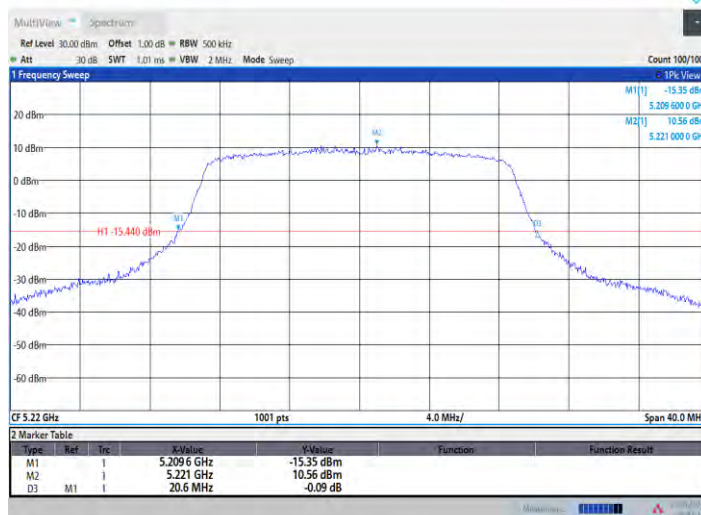
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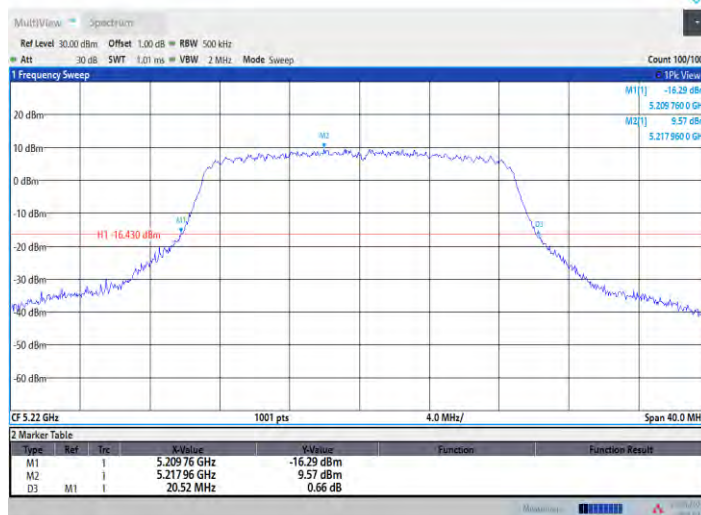
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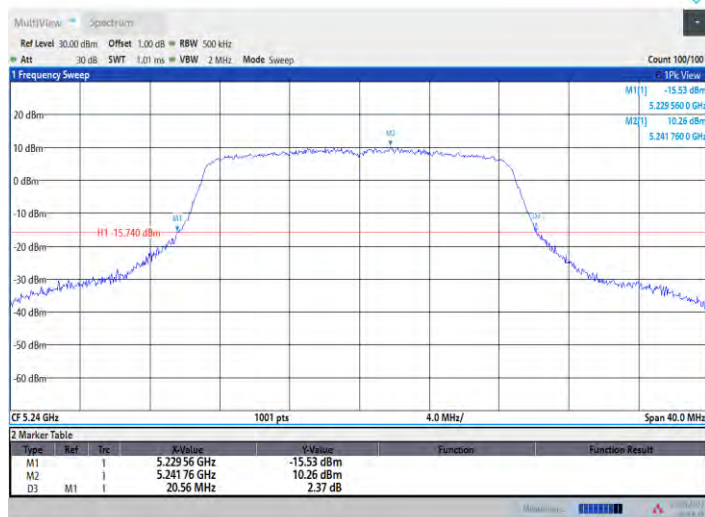
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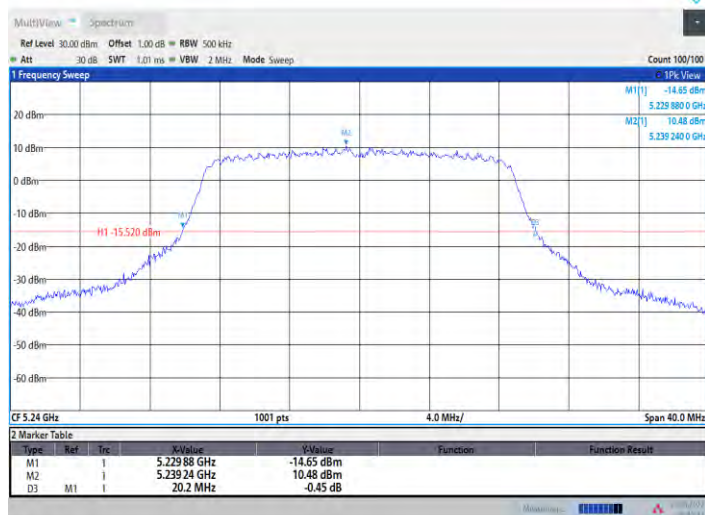
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20:45:33 23.05.2022



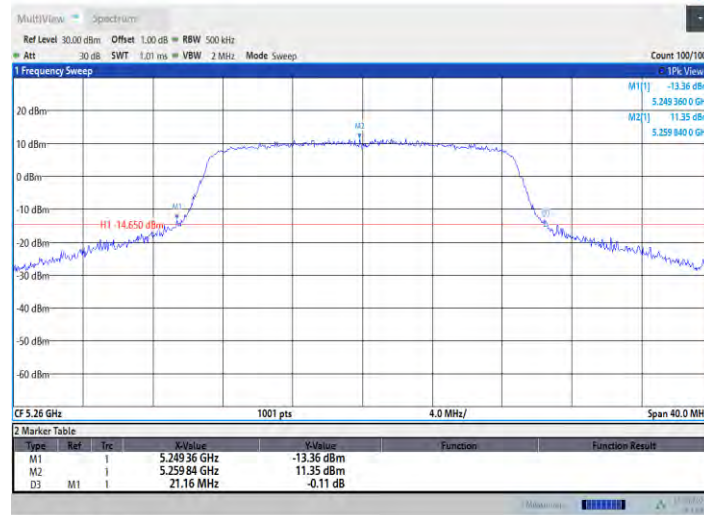
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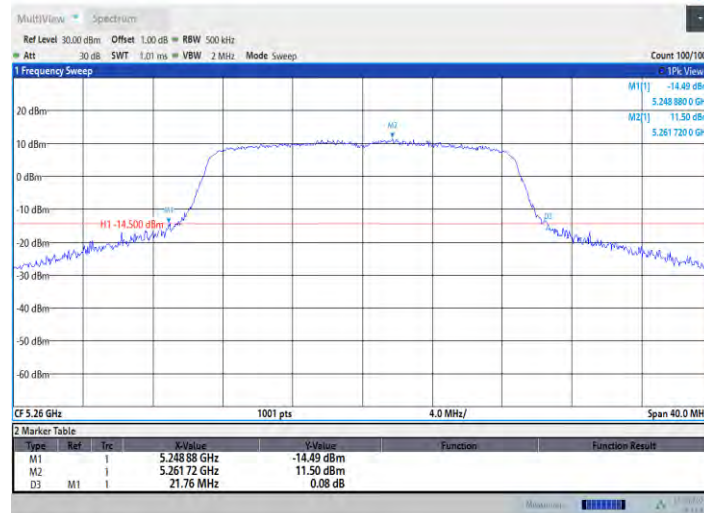
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14:13:31 31.05.2022

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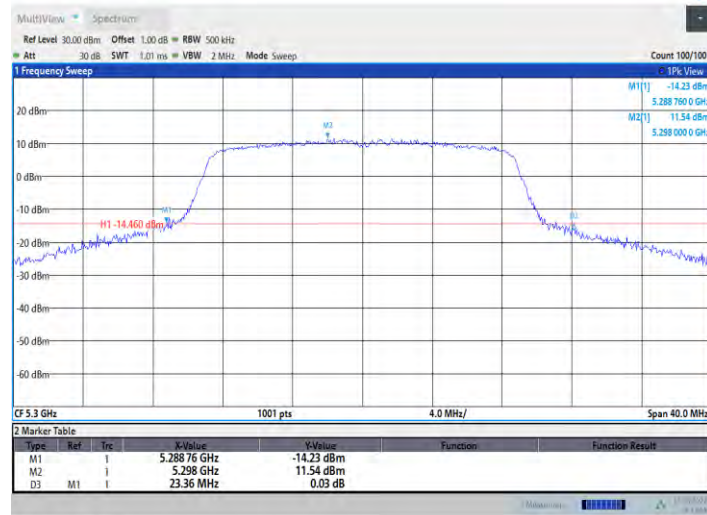
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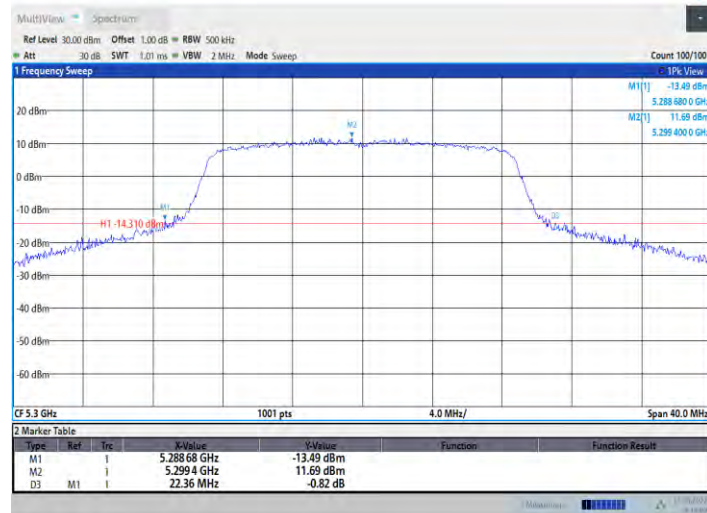
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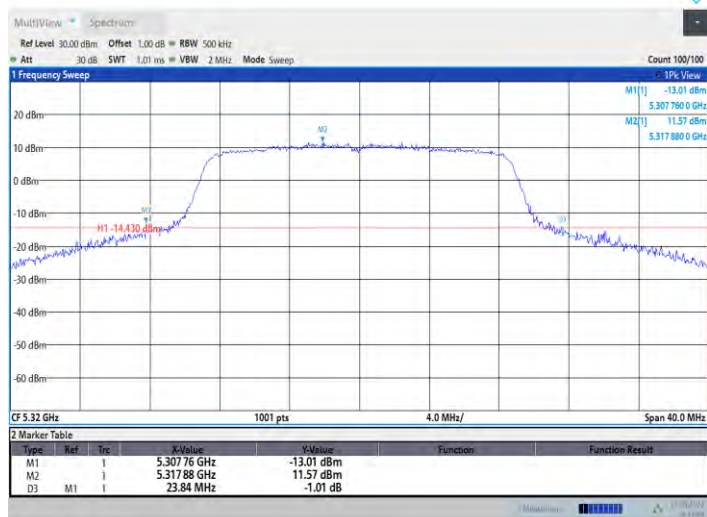
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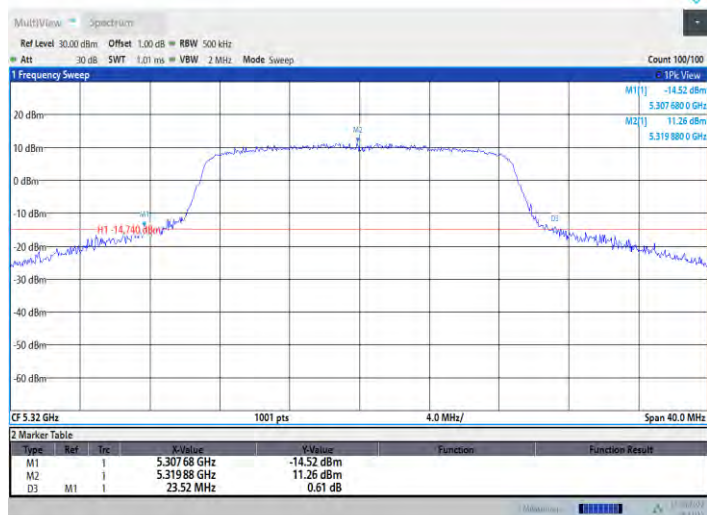
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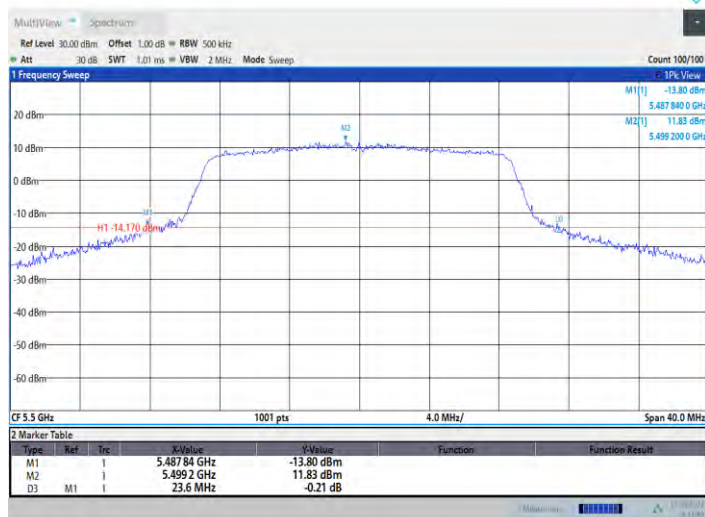
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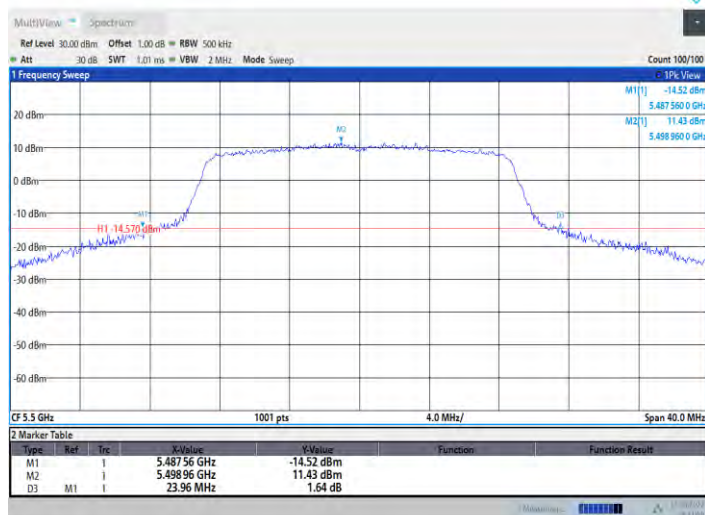
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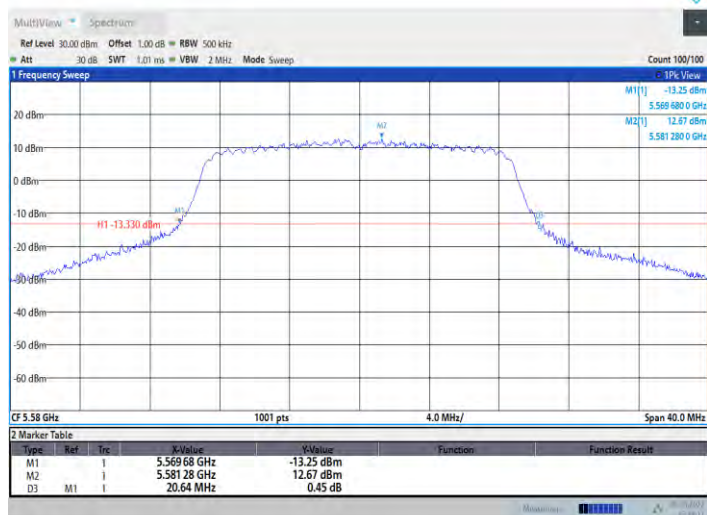
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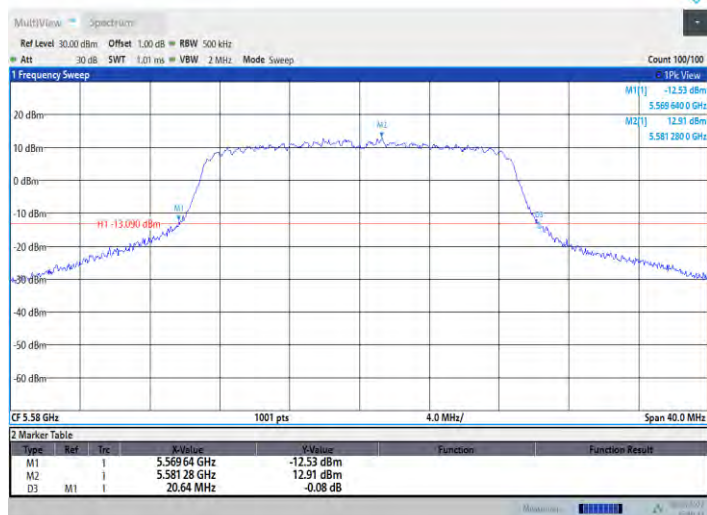
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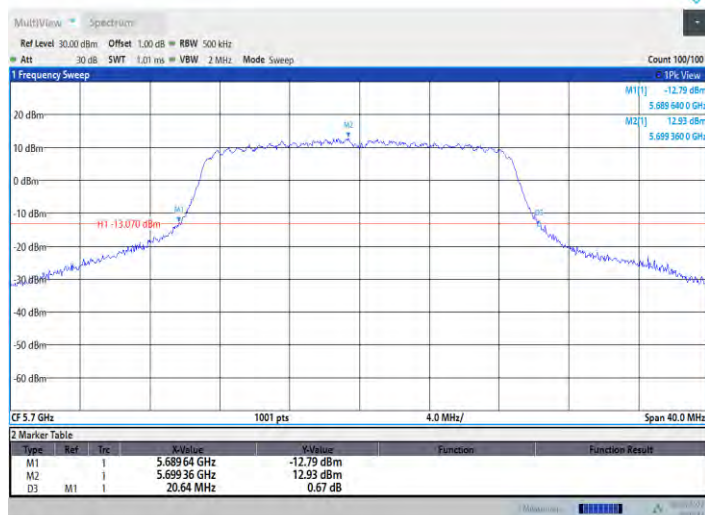
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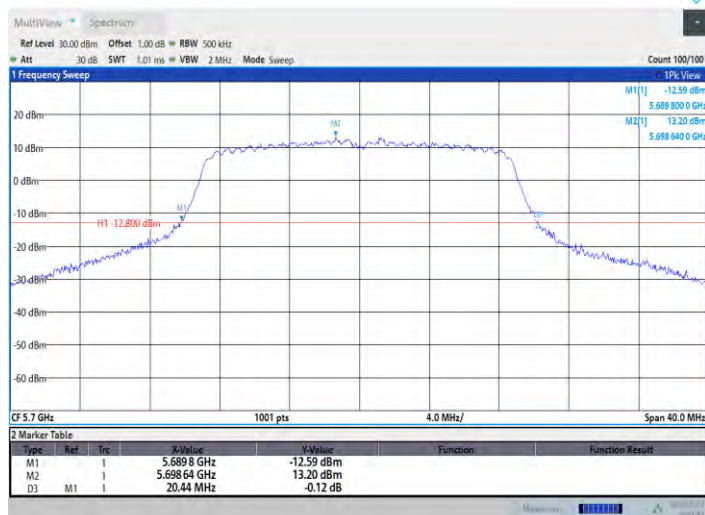
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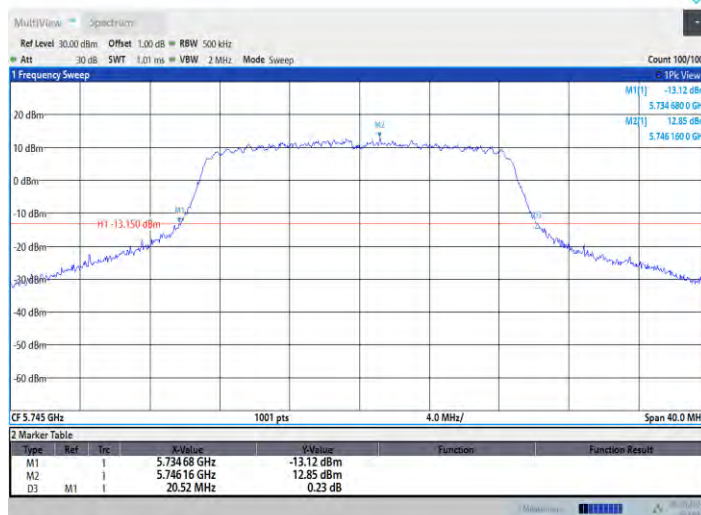
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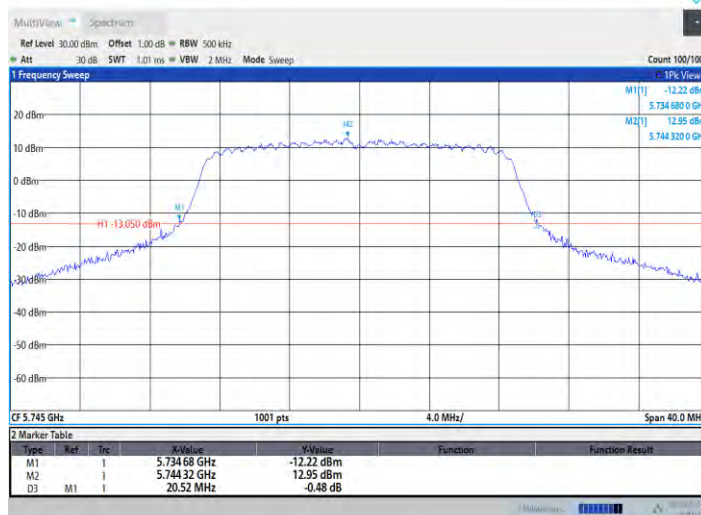
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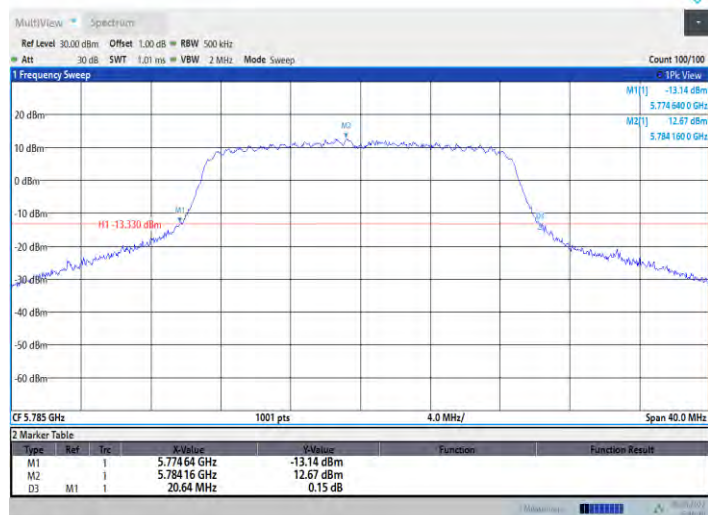
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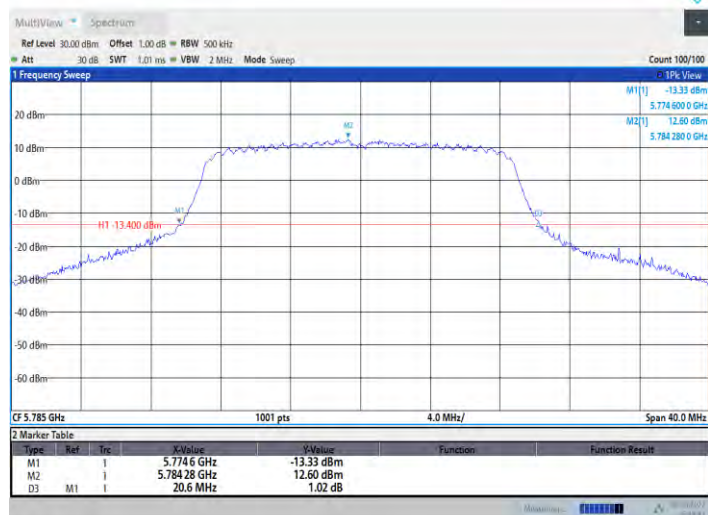
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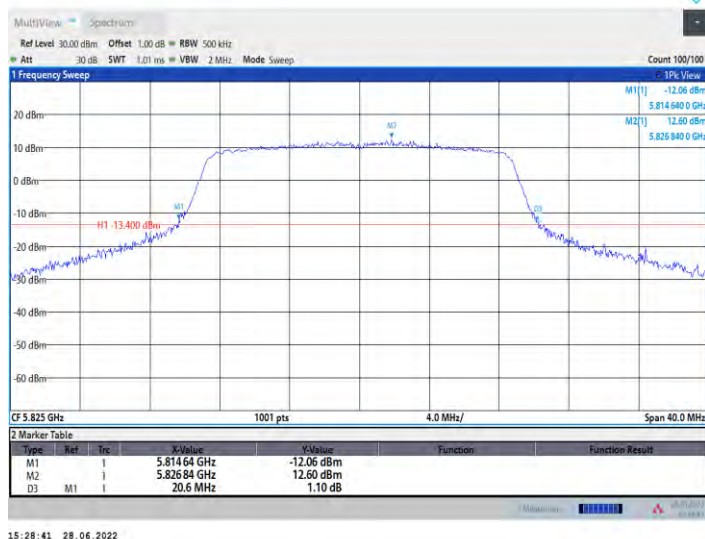
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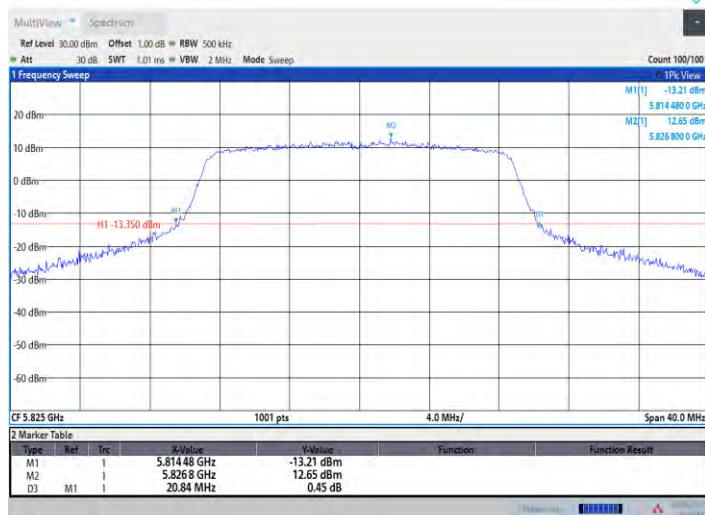
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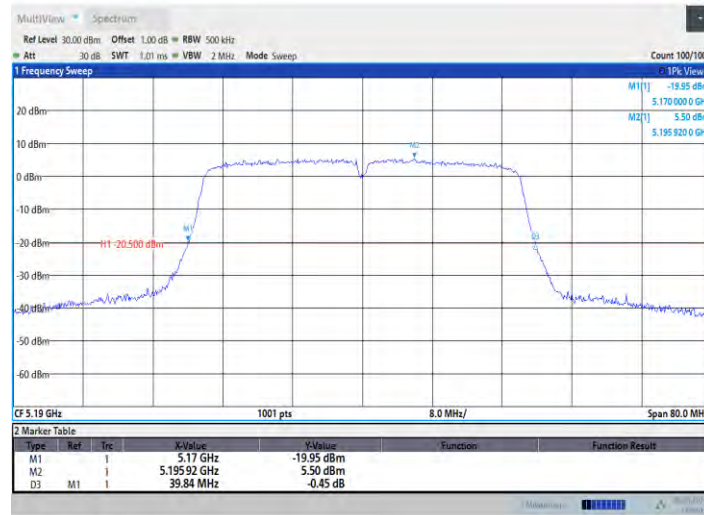
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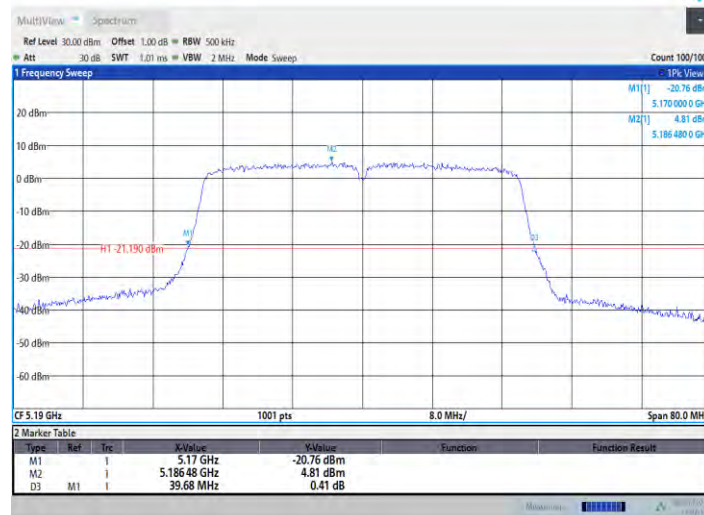
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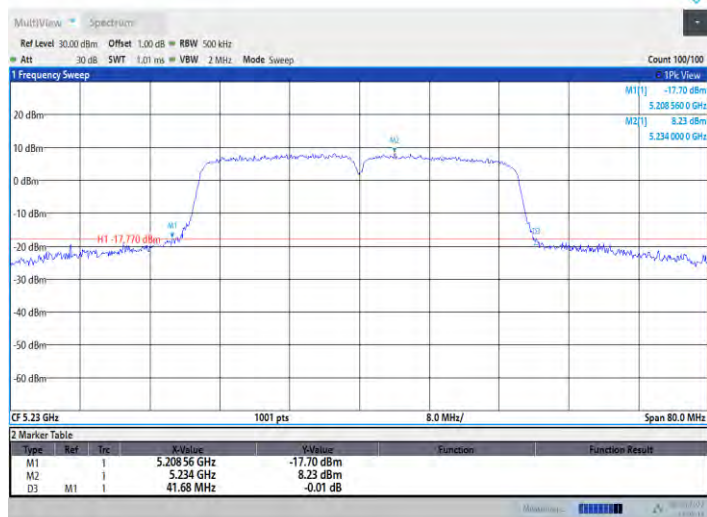
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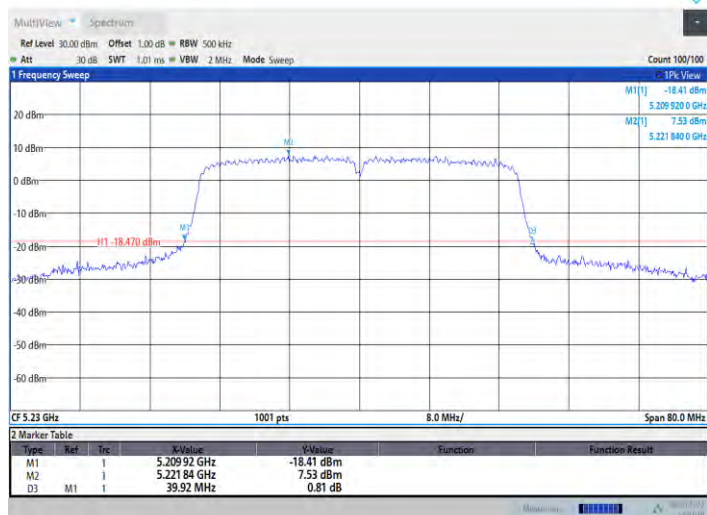
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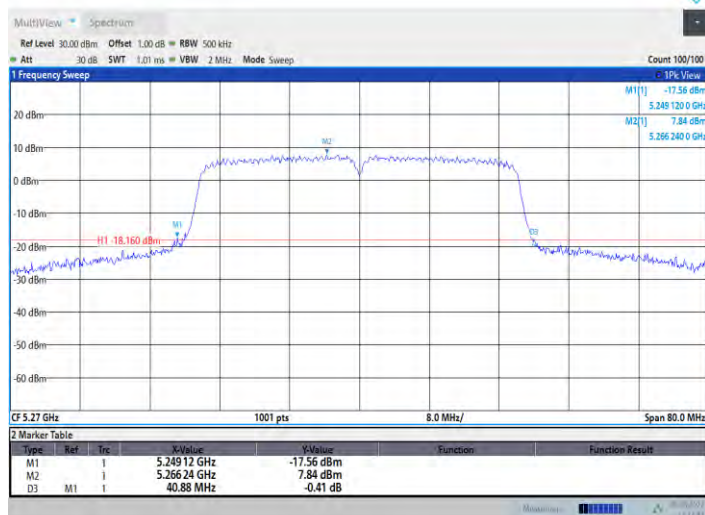
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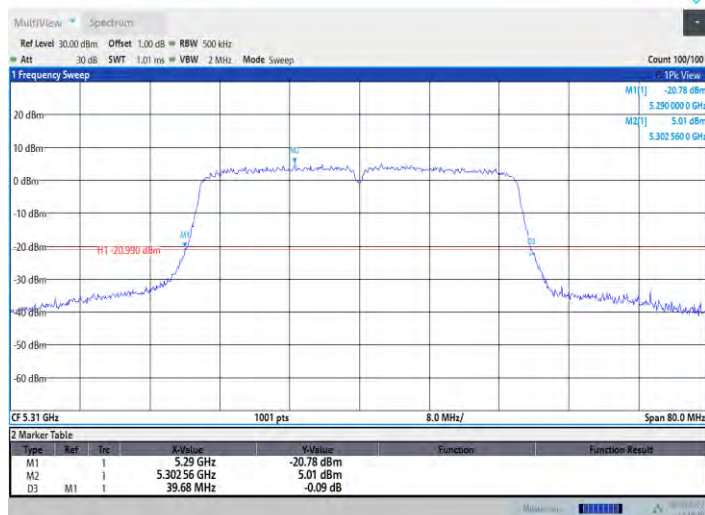
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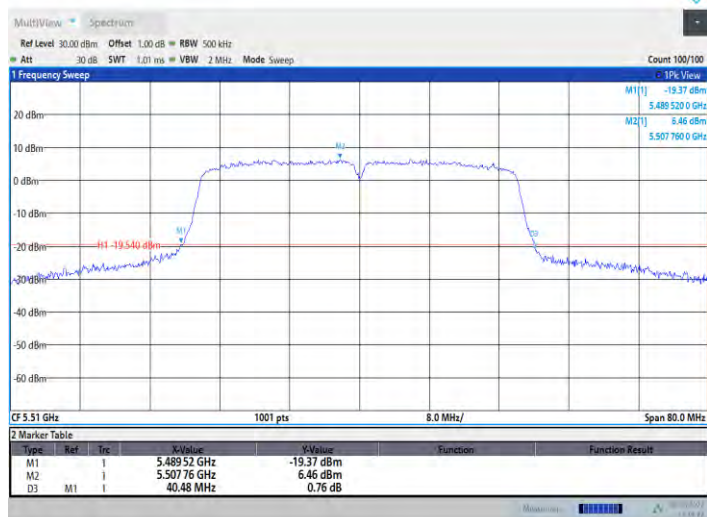
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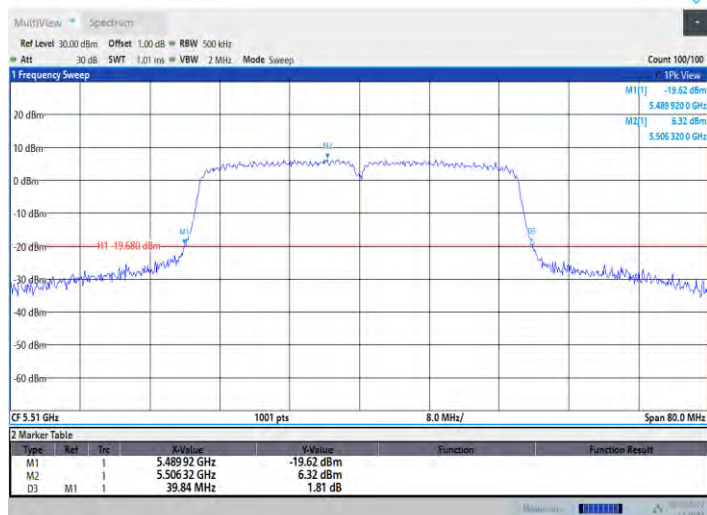
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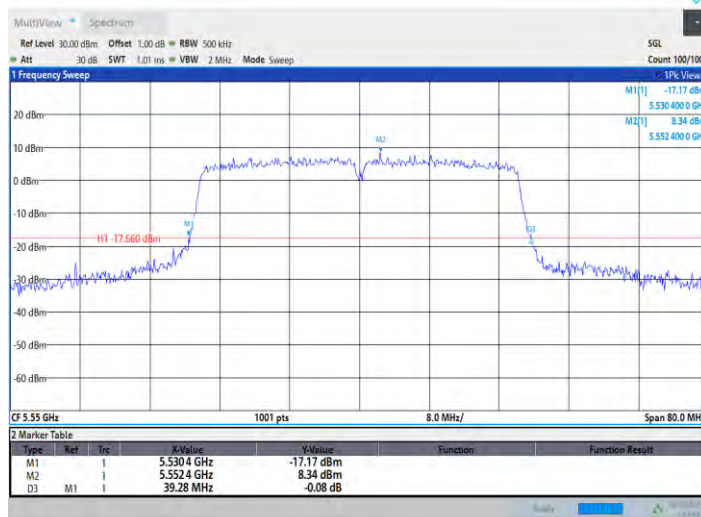
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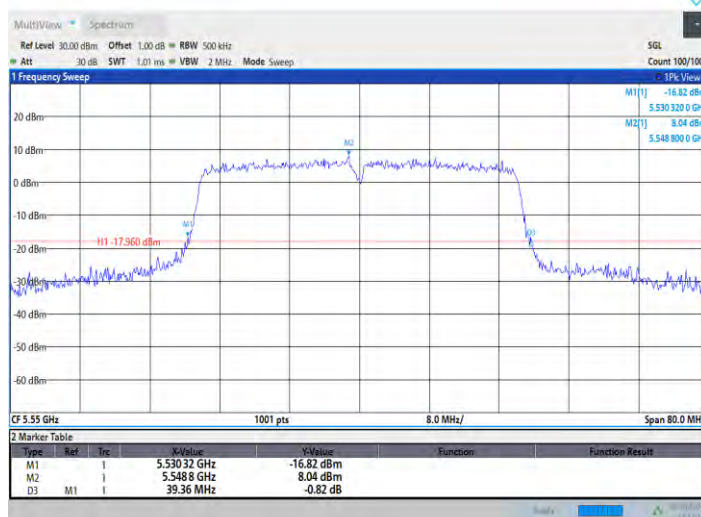
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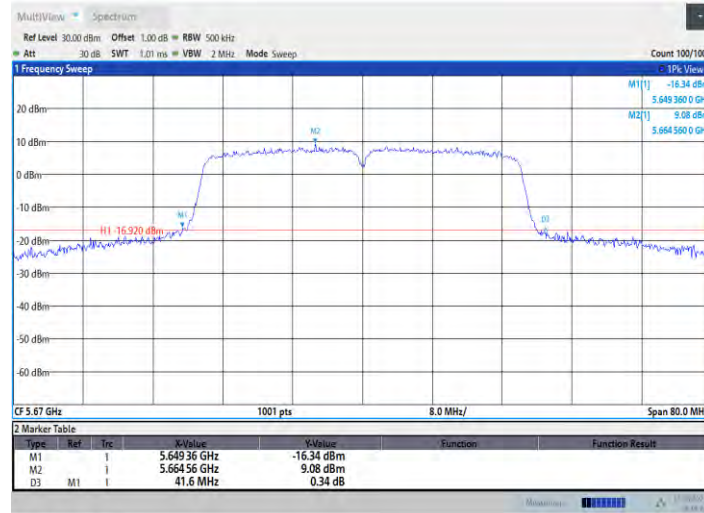
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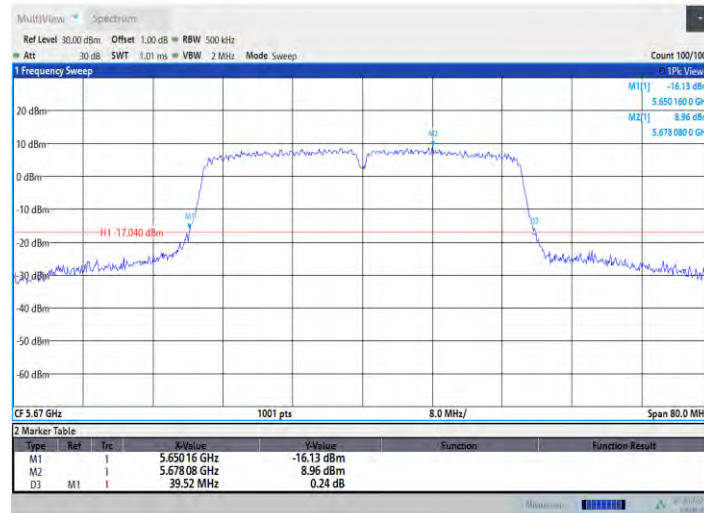
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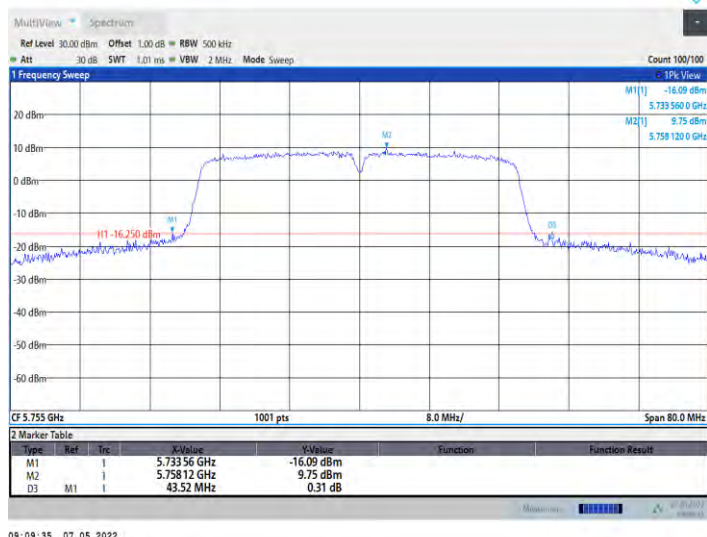
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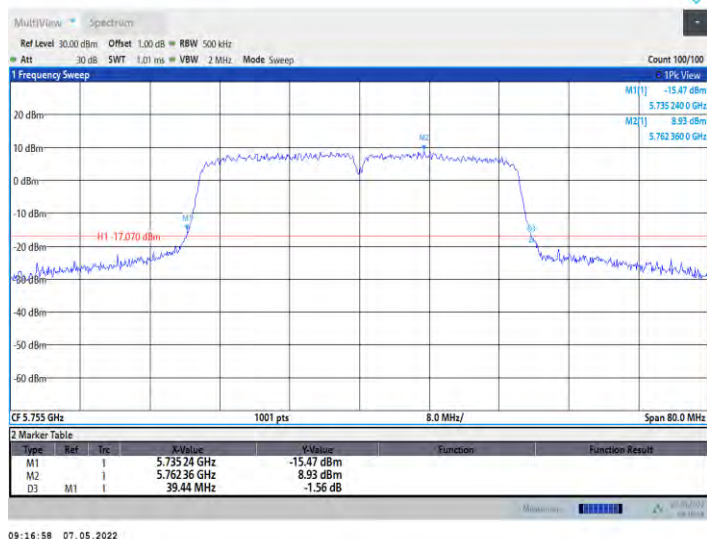
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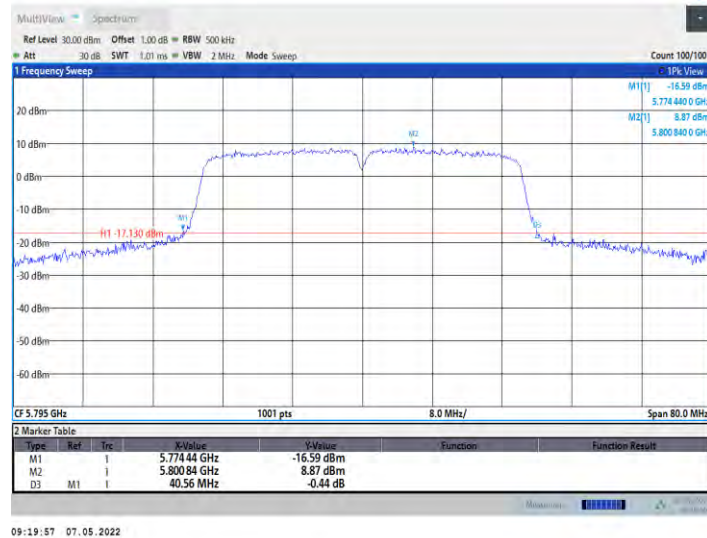
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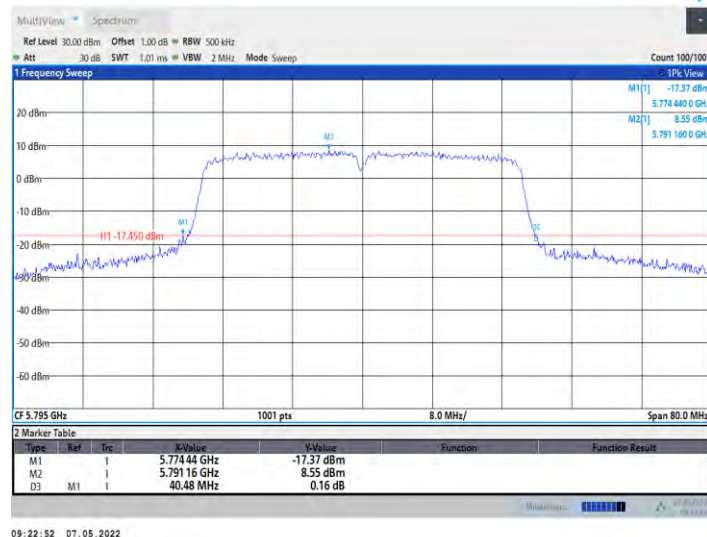
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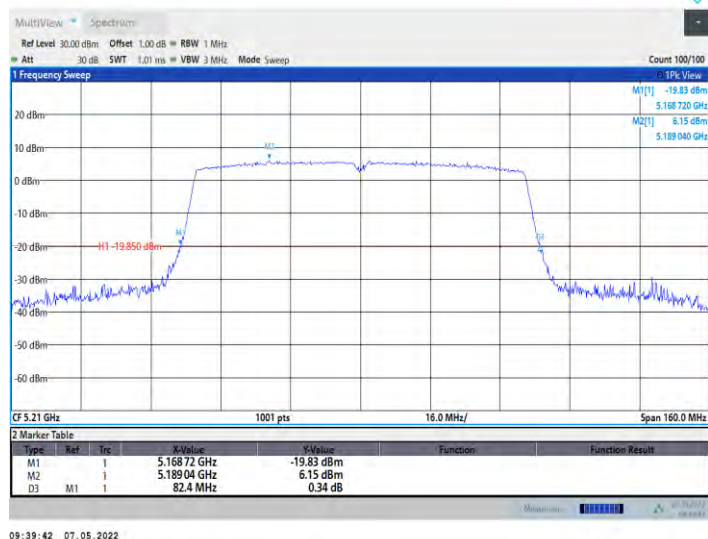
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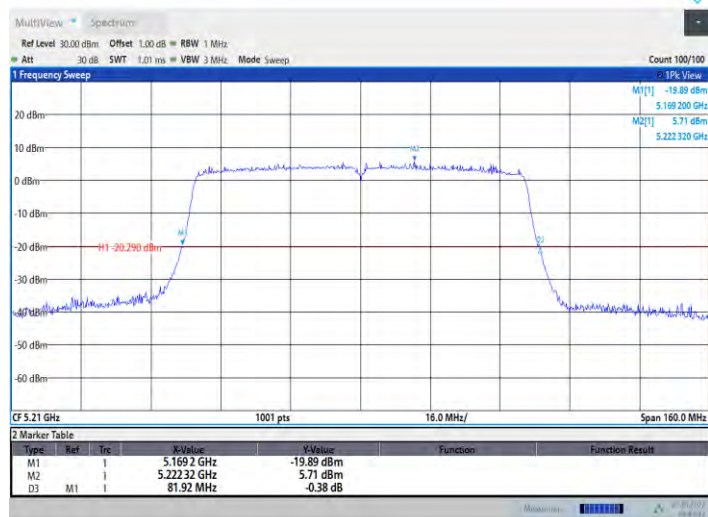
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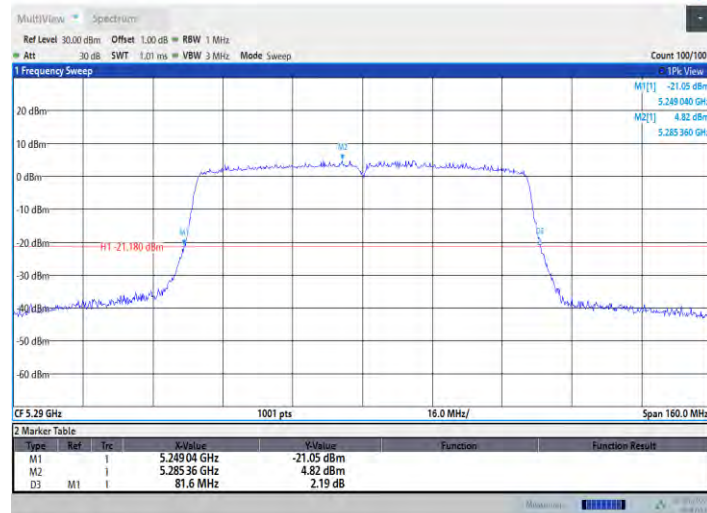
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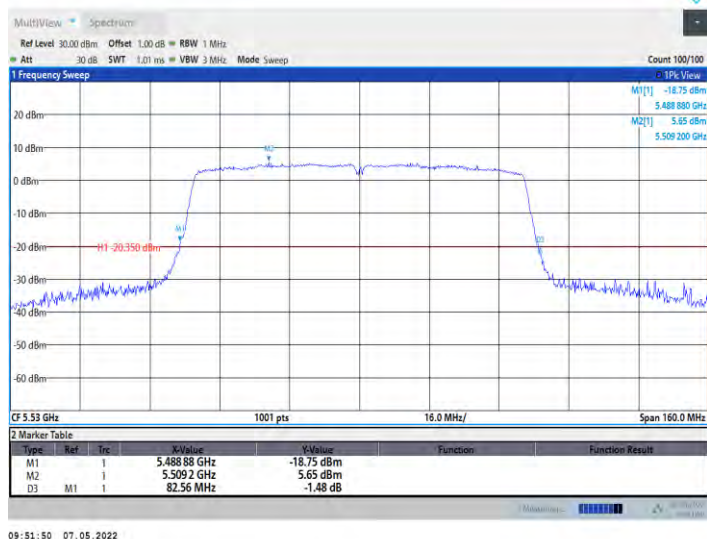
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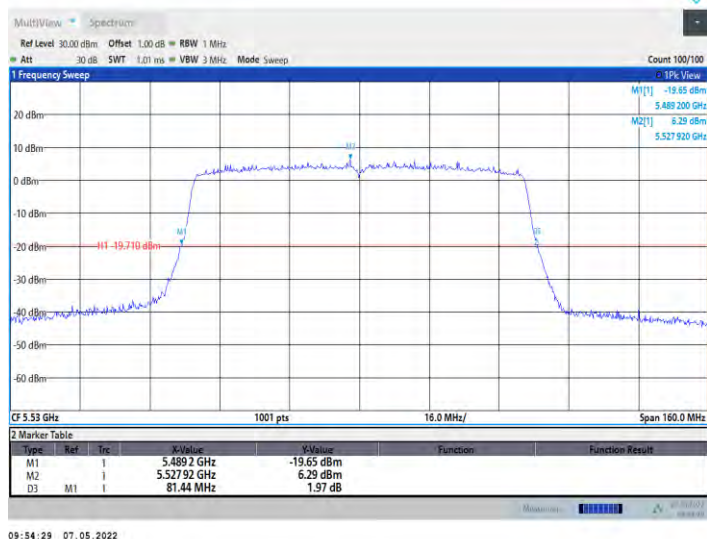
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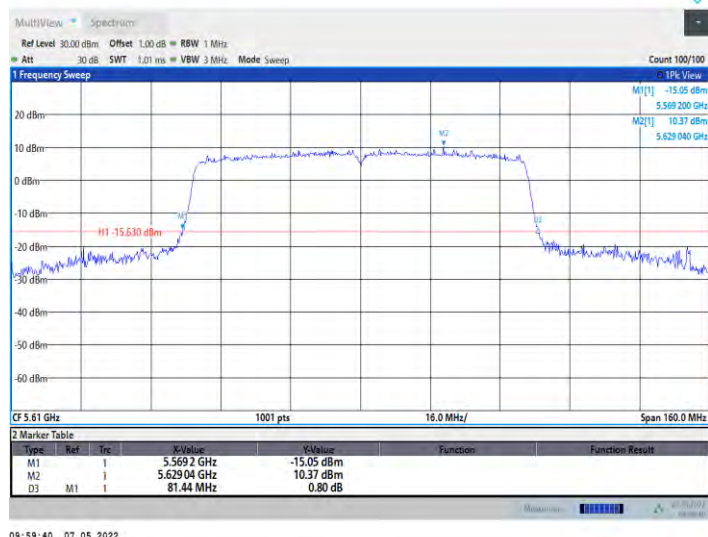
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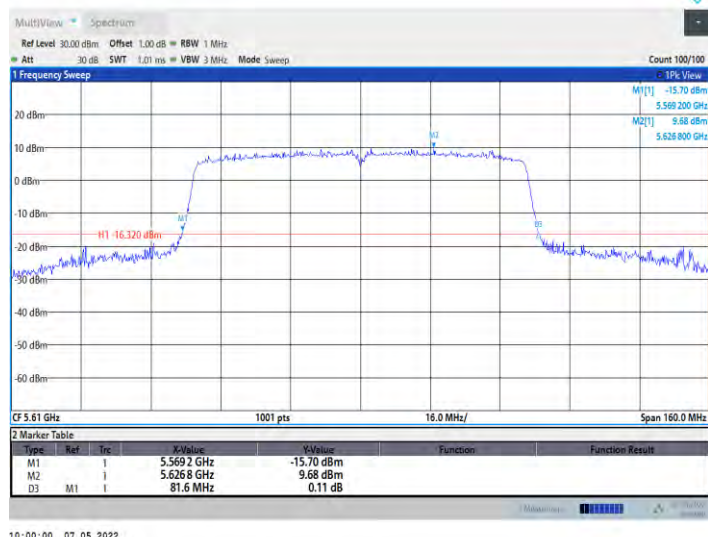
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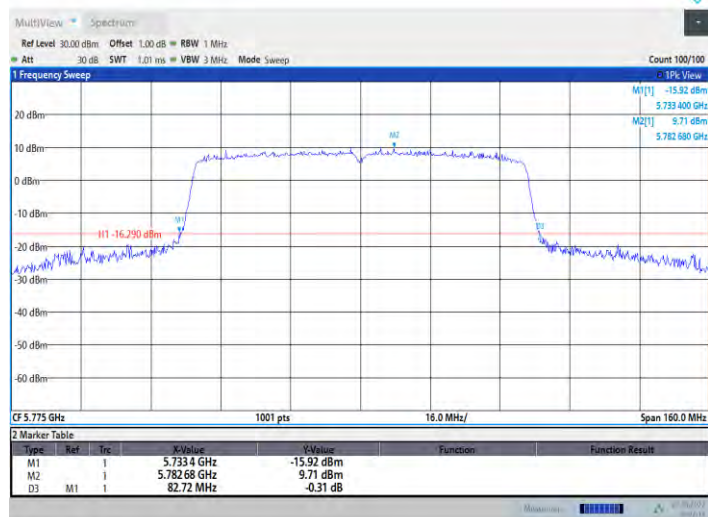


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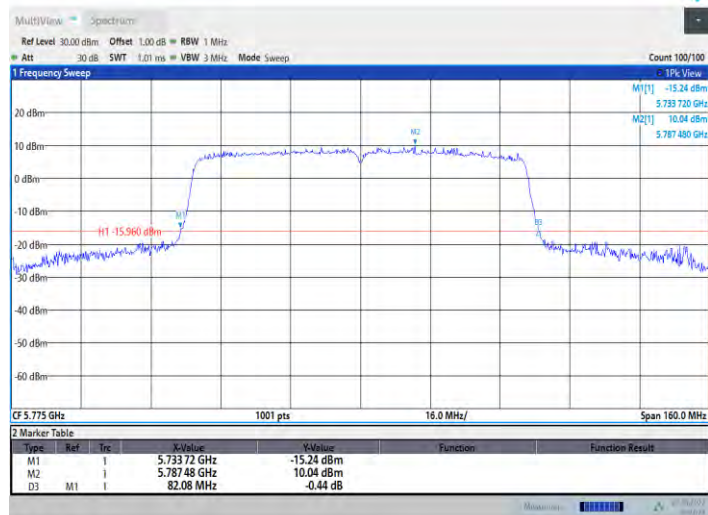
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10:03:25 07.05.2022



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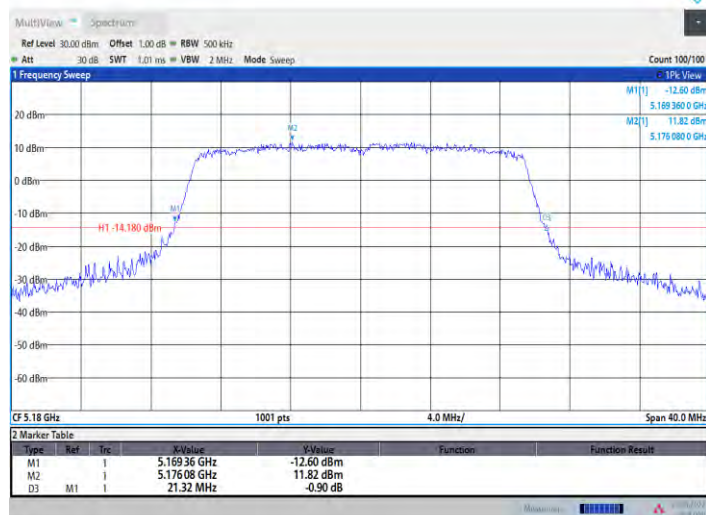
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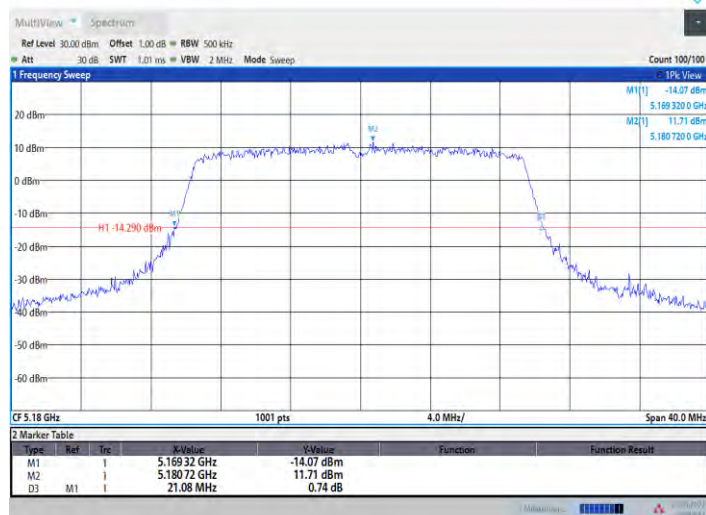
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11AX20MIMO_Ant1_5180



20:47:51 23.05.2022

11AX20MIMO_Ant2_5180



20:48:32 23.05.2022



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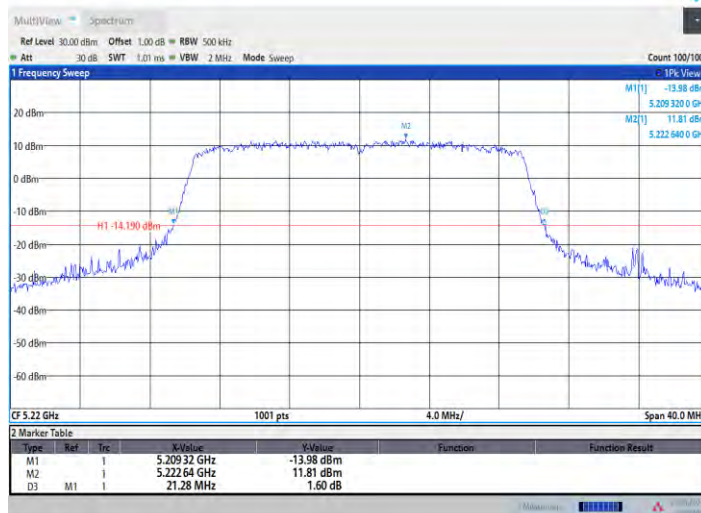
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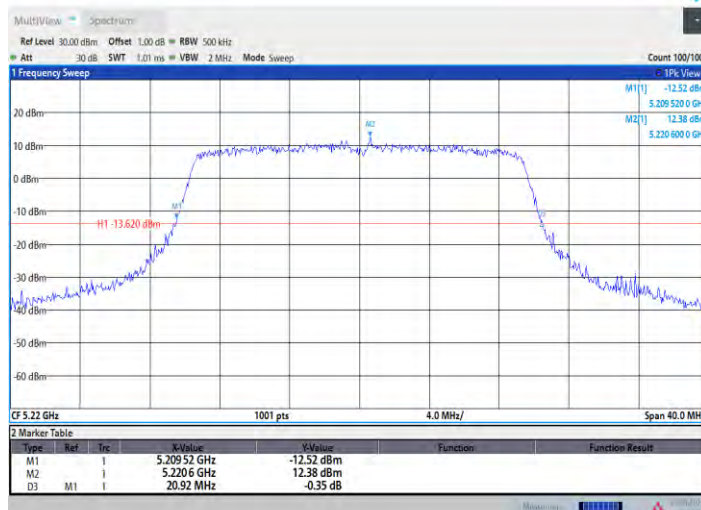
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11AX20MIMO_Ant2_5220



20:52:04 23.05.2022



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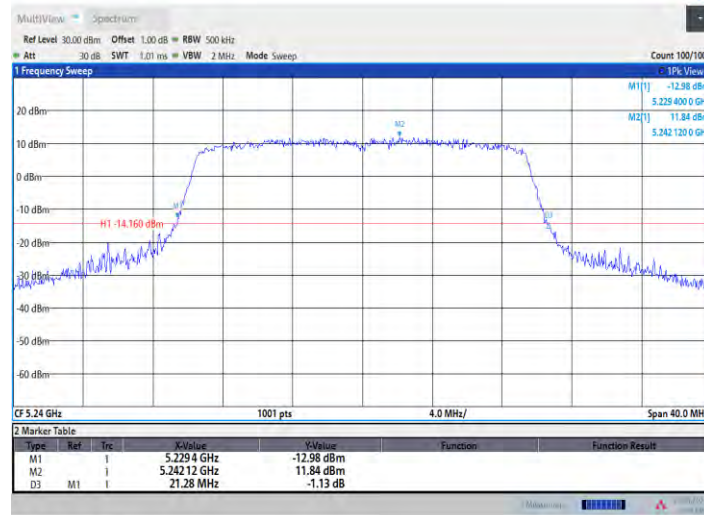
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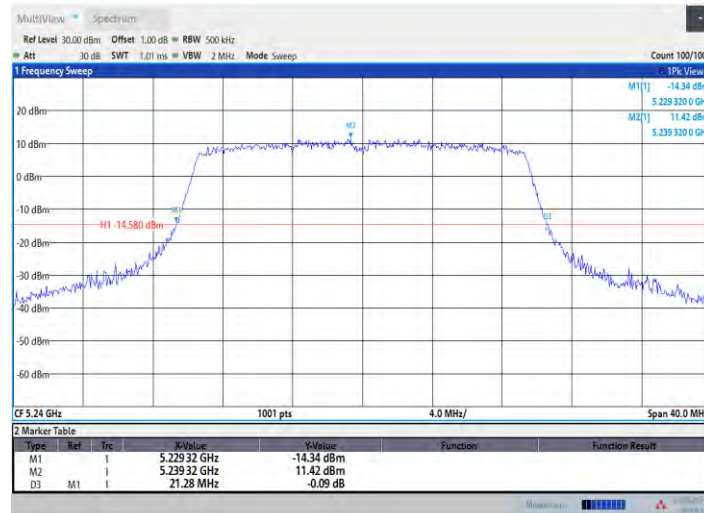
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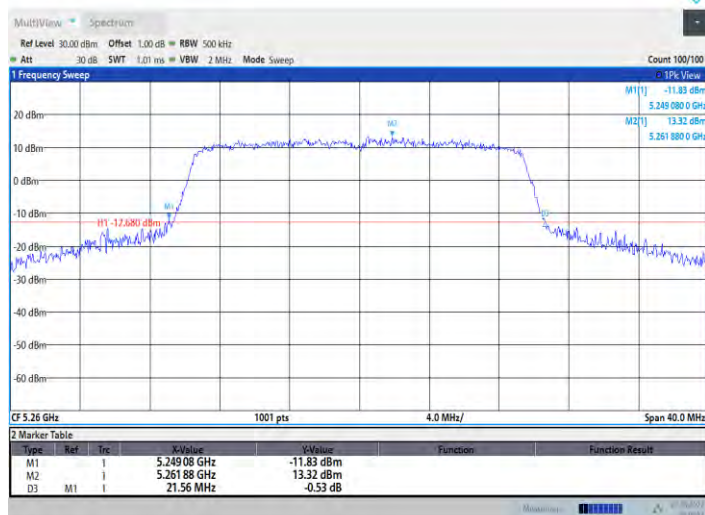
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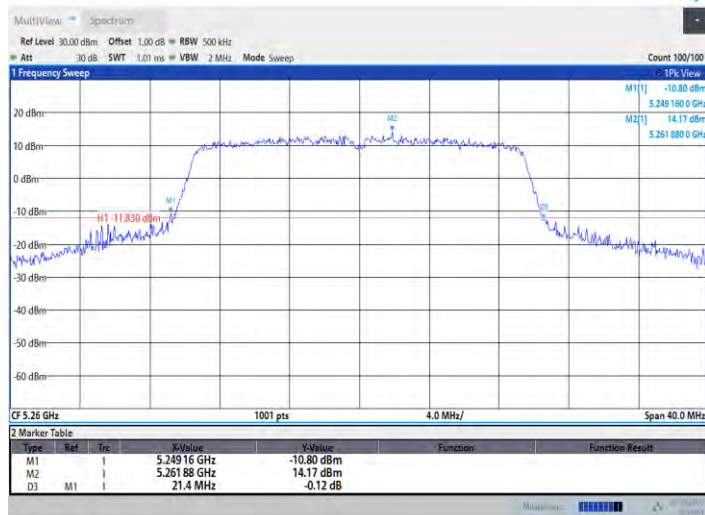
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11AX20MIMO_Ant1_5260



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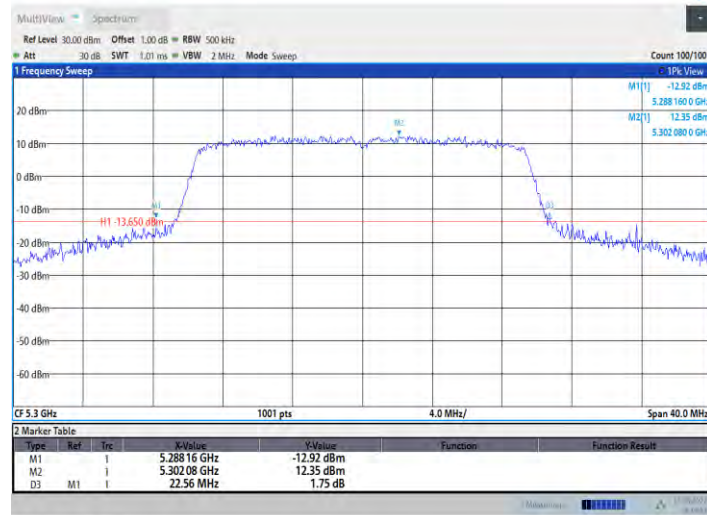
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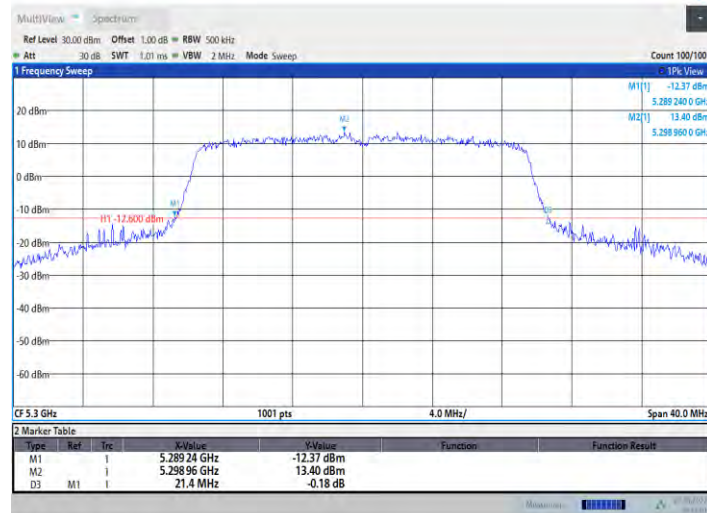
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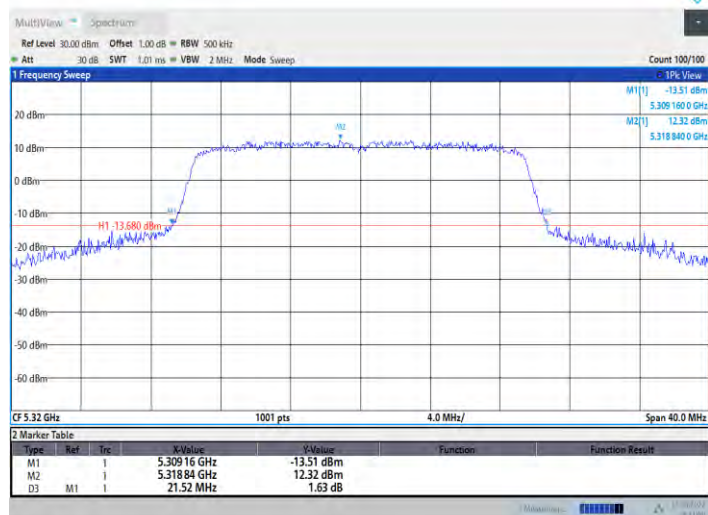
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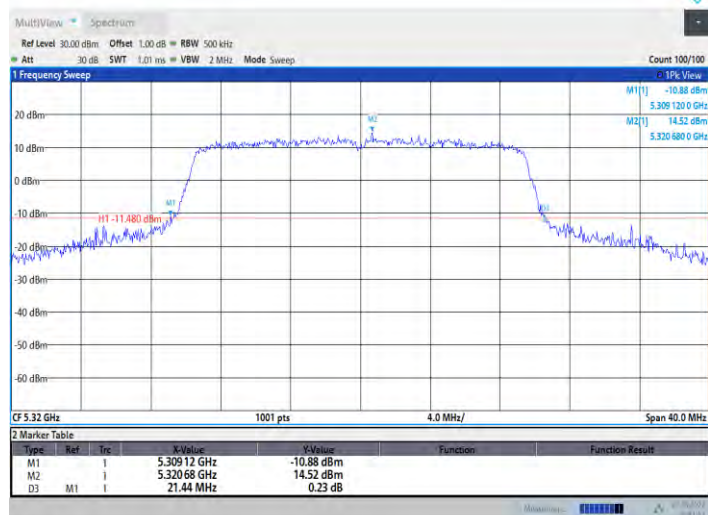
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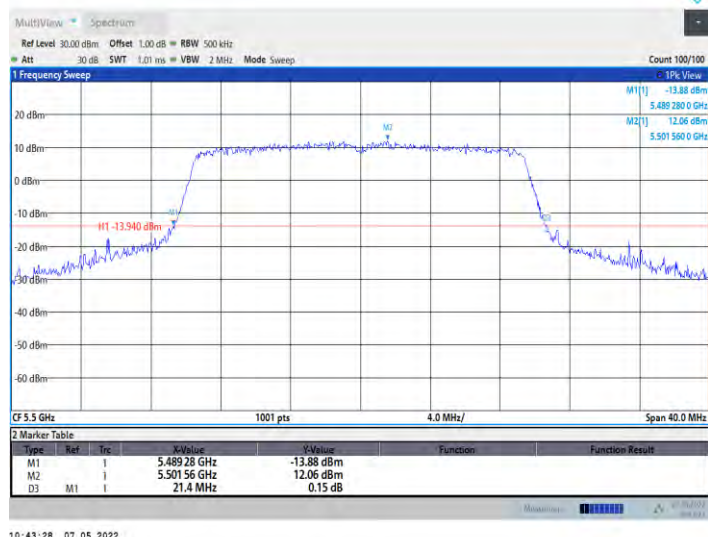
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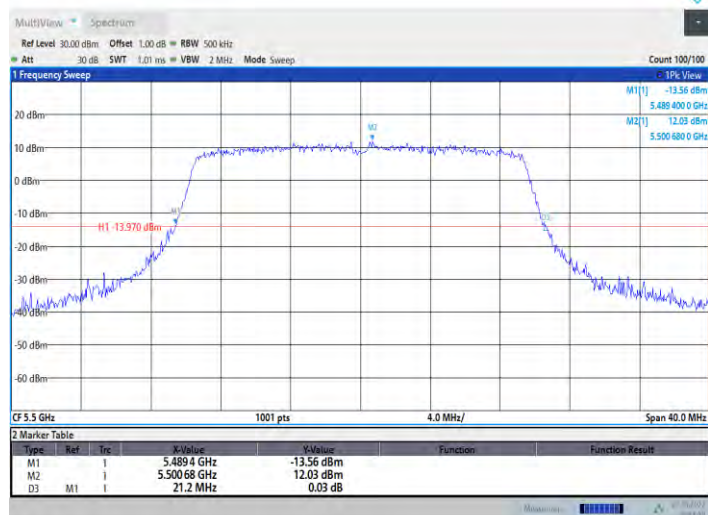
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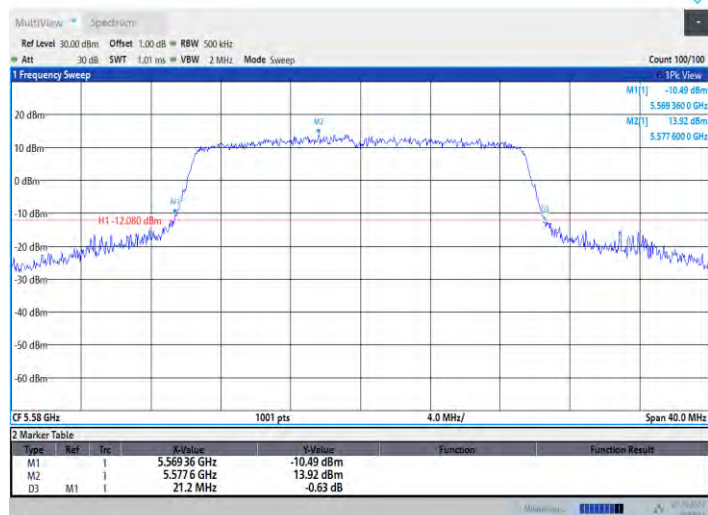
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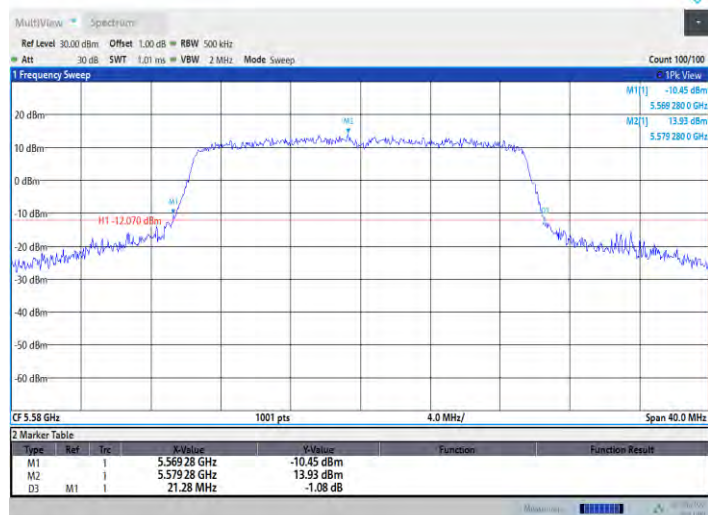
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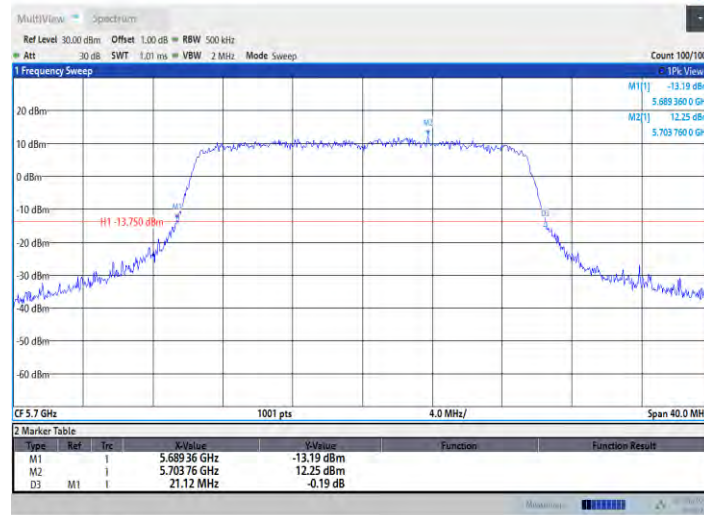
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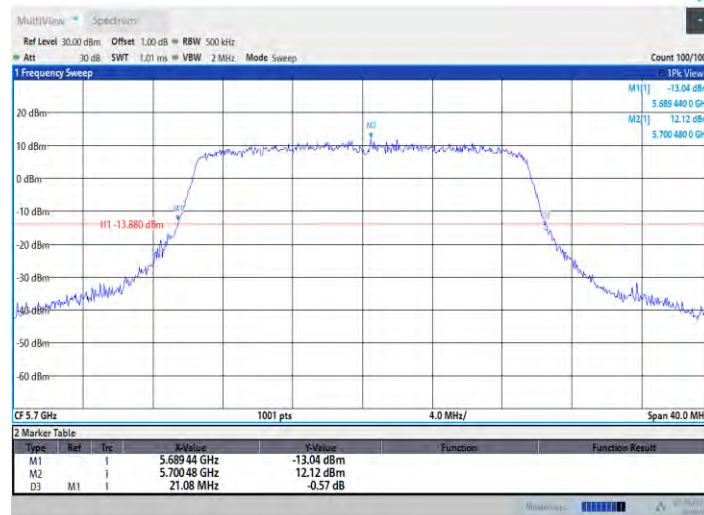
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