TEST REPORT

Product	:	PANEL PC
Trade mark	:	IEI Integration Corp.
Model/Type reference	:	IOVU-210AD-RK39
Serial Model	:	N/A
Report Number	:	EED39N00008301
FCC ID	:	RFH-IOVU-210AD
Date of Issue	:	July 16,2021

Test Standards	Results
☒ 47 CFR Part 15 Subpart C	PASS

Prepared for:

IEI INTEGRATION CORP.

NO.29,ZHONGXING RD.,XIZHI DIST.,NEW TAIPEI CITY 22161,TAIWAN

Prepared by:

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Compiled by: Jenny. Yu Reviewed by: Lily. Wang

Approved by: Jeff Fang Date: July 16,2021

Check No.: 3915514199

Modification Record

No.	Last Report No.	Modification Description
1	EED39N00008301	First report
2	EED39N00008301	Second report

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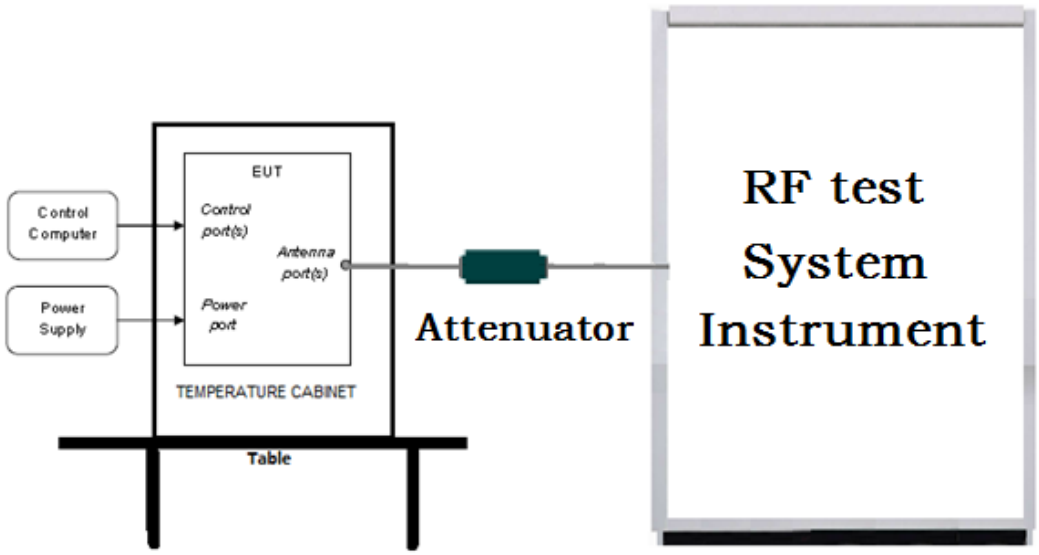
1. Test Summary

Test item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Duty cycle	47 CFR Part 15 Subpart C Section 15.35(c)	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

2. Test Requirement

2.1. Test Setup

For Conducted Test Setup



For Radiated Emissions Test Setup

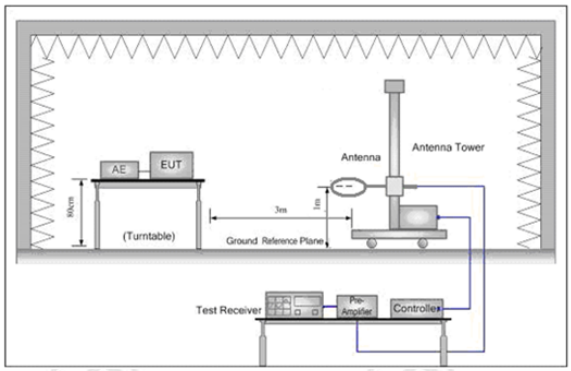


Figure 1. Below 30MHz

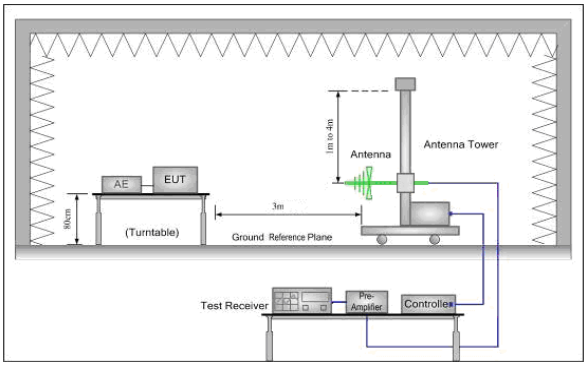


Figure 2. 30MHz to 1GHz

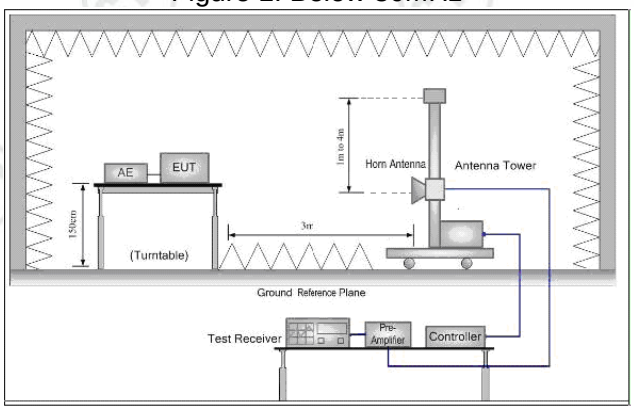
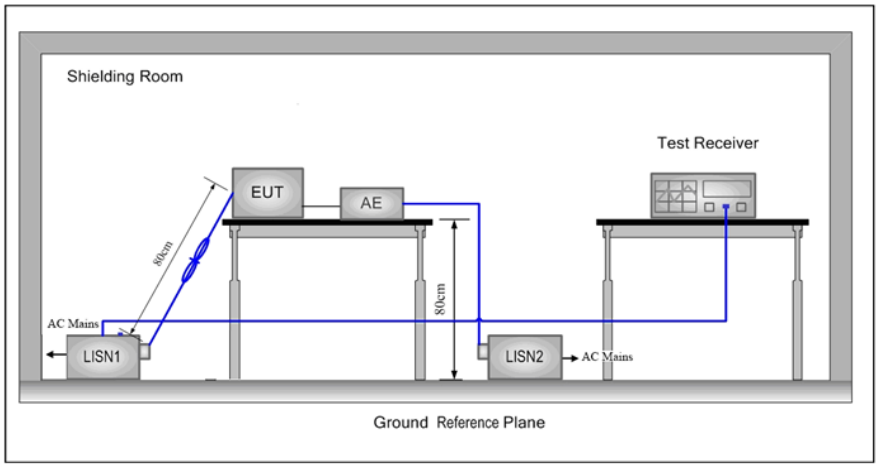


Figure 3. Above 1GHz

For Conducted Emissions Test Setup



2.2. Test Environment

Operating Environment:	
Temperature:	19.8 °C
Humidity:	55 % RH
Atmospheric Pressure:	1019mbar

2.3. Test Condition

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
TX mode:	The EUT transmitted the continuous signal at the specific channel(s).			

Note: Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).

3. General Information

3.1. Client Information

Applicant:	IEI INTEGRATION CORP.
Address of Applicant:	NO.29,ZHONGXING RD.,XIZHI DIST.,NEW TAIPEI CITY 22161,TAIWAN
Manufacturer:	IEI INTEGRATION CORP.
Address of Manufacturer:	NO.29,ZHONGXING RD.,XIZHI DIST.,NEW TAIPEI CITY 22161,TAIWAN
Factory:	Armorlink SH Corp.
Address of Factory:	No.515,Shenfu Rd,Xinzhuang Industrial Development Zone,Minhang District,Shanghai,P.R.China

3.2. General Description of EUT

Product Name:	PANEL PC
Model No.(EUT):	IOVU-210AD-RK39
Trade Mark:	
EUT Supports Radios application:	2.4G WIFI: IEEE802.11b/g/n(20MHz), 2412MHz-2462MHz 5G WIFI: IEEE802.11a/ac(HT20)/ac(HT40)/ac(HT80),5150-5350MHz,5470-5725MHz, 5725-5850MHz. Bluetooth BR+EDR& Bluetooth V4.1 BLE NFC13.56MHz
Power Supply:	Model No: FSP060-DHAN3 Input: AC100-240V 1.8A, 50/60Hz Output: DC 12V 5.0A
Sample Received Date:	Feb 09, 2021
Sample tested Date:	Feb 09, 2021 to July 12,2021

3.3. Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	11
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM, QPSK,BPSK)
Test Software of EUT:	AMPK TOOL (manufacturer declare)
Antenna Type:	Type: FPC antenna
Antenna Gain①:	ANT1 Gain for 2.4G :2.46dBi ANT2 Gain for 2.4G: 3.06dBi
Test Voltage:	AC120V/60Hz

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	6	2437MHz	11	2462MHz

Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

3.4. Description of Support Units

The EUT has been tested independently.

3.5. Test Location

All test facilities used to collect the test data are located at Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China.

3.6. Test Facility

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

A2LA-Lab Cert. No. 5734.01

Centre Testing International (Suzhou) CO., LTD. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration. Laboratories and any additional program requirements in the identified field of testing.

FCC-Designation No.:CN1290

Centre Testing International Group Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The American association for Centre Testing International Group Co., Ltd. EMC laboratory accreditation Designation No.:CN1290

3.7. Deviation from Standards

None.

3.8. Abnormalities from Standard Conditions

None.

3.9. Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Occupied Bandwidth	0.56%
2	RF Power conducted	0.59 dB
3	Power Spectral Density, conducted	2.37 dB
4	Unwanted Emission, conducted	2.68 dB
5	All Emission, radiated	4.41 dB(30MHz-1GHz)
		4.99 dB(1GHz-18GHz)
		5.307 dB(18GHz-40GHz)
6	Temperature test	0.54°C
7	Humidity test	1.62%
8	DC and low frequency voltages test	1.14%

4. Equipment List

RF test system					
Equipment	**Manufacturer**	**Mode No.**	**Serial Number**	**Cal. Date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
Signal Generator	R&S	SMB100A	182002	2020-10-23	2021-10-22
Communication test set test set	R&S	CMW500	107929	2020-04-27	2021-04-26
Spectrum Analyzer	R&S	FSV40	101588	2020-10-23	2021-10-22
Vector signal generator	R&S	SMBV100B	101985	2020-10-23	2021-10-22
Temperature/ Humidity Indicator	testo	608-H1	1945222628	2020-12-10	2021-11-08
Switch Automatic control	R&S	OSP-B157W8	101111	2020-10-23	2021-10-22
High-low temperature chamber	GIANT FORCE	GTH-800-40-CP	MAA1908-003	2020-12-08	2021-12-07
Automatic test software	Shenzhen JS TONSCEND	/	V2.6.77.0518	/	/

966 Semi-anechoic Chamber					
Equipment	**Manufacturer**	**Mode No.**	**Serial Number**	**Cal. Date (mm-dd-yyyy)**	**Cal. Due date (mm-dd-yyyy)**
Receiver	R&S	ESU8	100537	2020-12-10	2021-12-09
Spectrum analyzer	R&S	FSV40	101185	2020-12-10	2021-12-09
Preamplifier (30MHz~1GHz)	SONOMA	317	393347	2020-12-04	2021-12-03
Preamplifier (1GHz~18GHz)	R&S	SCU-18D	1987397	2020-12-10	2021-12-09
Preamplifier (18GHz~40GHz)	/	MTLNA1804003 0235	12009007	2020-10-23	2021-10-22
Loop Antenna (9kHz~30MHz)	TESEQ	HLA6121	54575	2021-02-27	2022-02-26
Antenna (30MHz~1GHz)	SCHWARZBEC K	VULB9163	9163-965	2020-10-16	2021-10-15
Antenna (1GHz~18GHz)	R&S	HF907	102524	2020-12-15	2021-12-14
Antenna (18GHz~40GHz)	R&S	BBHA9170	1032	2020-10-23	2021-10-22
Band rejection filter	Xi’an xingbo	XBLBQ-DZA81	200827-1-02	/	/

5. Radio Technical Requirements Specification

5.1. Reference Documents for Testing

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

5.2. Test Results List

Test requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI 63.10 (L,M,H CH)	Maximum conducted output power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI 63.10 (L,M,H CH)	DTS Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI 63.10 (L, H CH)	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI 63.10(L,M,H CH)	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI 63.10 (L,M,H CH)	Maximum Power Spectral Density	PASS	Appendix E)
Part15C Section 15.35 (c)	ANSI 63.10 (L or M or H CH)	Duty cycle	PASS	Appendix F)
Part15C Section 15.203/15.247 (c)	ANSI 63.10	Antenna Requirement	PASS	Appendix G)
Part15C Section 15.207	ANSI 63.10Transmitter mode	AC Power Line Conducted Emission	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI 63.10 (L,M, H CH)	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix I)
Part15C Section 15.205/15.209	ANSI 63.10 (L,M,H CH)	Radiated Spurious Emissions	PASS	Appendix J)

Appendix A): Maximum conducted output power

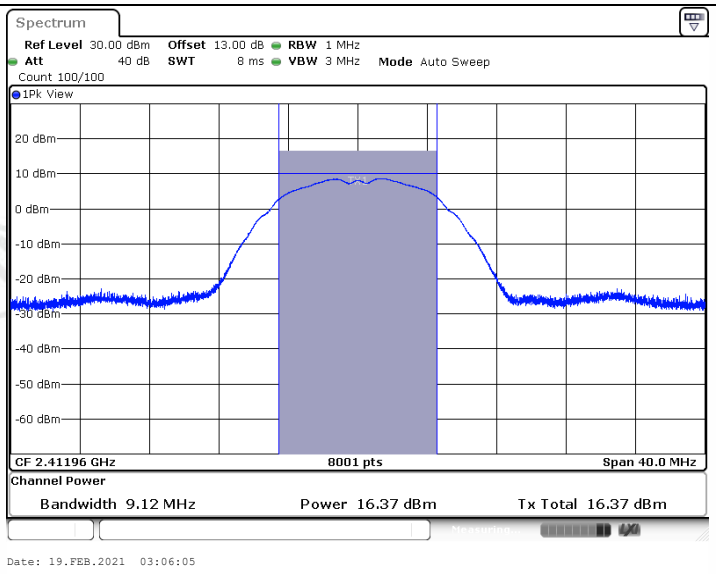
Result Table:

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.37	<=30	PASS
	Ant2	2412	16.91	<=30	PASS
	Ant1	2437	16.91	<=30	PASS
	Ant2	2437	17.41	<=30	PASS
	Ant1	2462	17.23	<=30	PASS
	Ant2	2462	17.41	<=30	PASS
11G	Ant1	2412	21.38	<=30	PASS
	Ant2	2412	22.16	<=30	PASS
	Ant1	2437	22.12	<=30	PASS
	Ant2	2437	22.57	<=30	PASS
	Ant1	2462	22.60	<=30	PASS
	Ant2	2462	22.82	<=30	PASS
11N20SISO	Ant1	2412	21.45	<=30	PASS
	Ant2	2412	22.12	<=30	PASS
	Ant1	2437	22.08	<=30	PASS
	Ant2	2437	22.61	<=30	PASS
	Ant1	2462	22.49	<=30	PASS
	Ant2	2462	22.67	<=30	PASS
11N20MIMO	Ant1	2412	21.30	<=30	PASS
	Ant2	2412	22.51	<=30	PASS
	total	2412	24.96	<=30	PASS
	Ant1	2437	21.95	<=30	PASS
	Ant2	2437	22.90	<=30	PASS
	total	2437	25.46	<=30	PASS
	Ant1	2462	22.36	<=30	PASS
	Ant2	2462	23.09	<=30	PASS
	total	2462	25.75	<=30	PASS

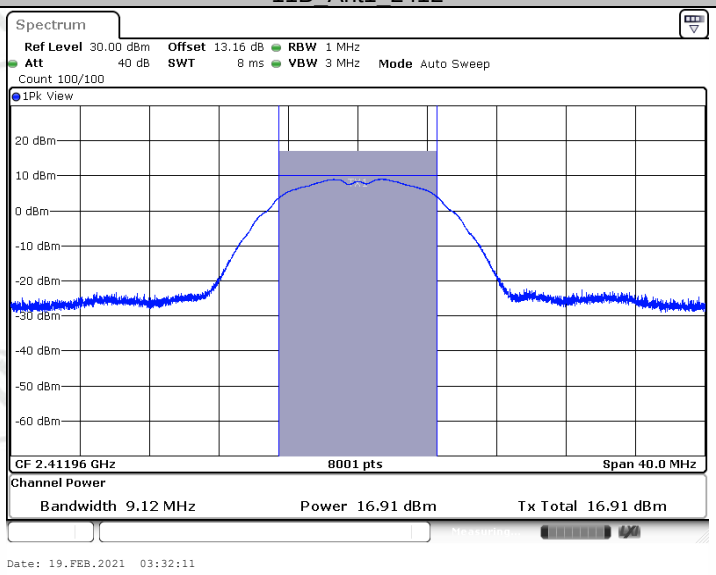
Remark:

1.Total Output Power (dBm) =10 log[($10^{P1/10} + 10^{P2/10} + \ldots + 10^{PN/10}$)

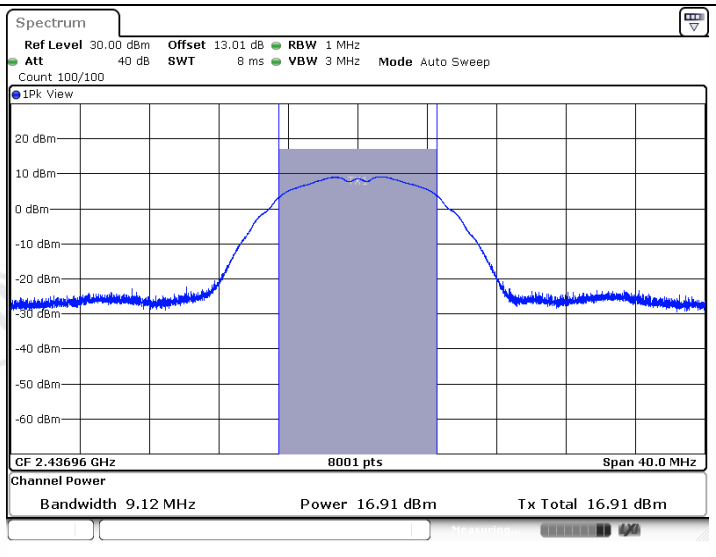
Test Graph:



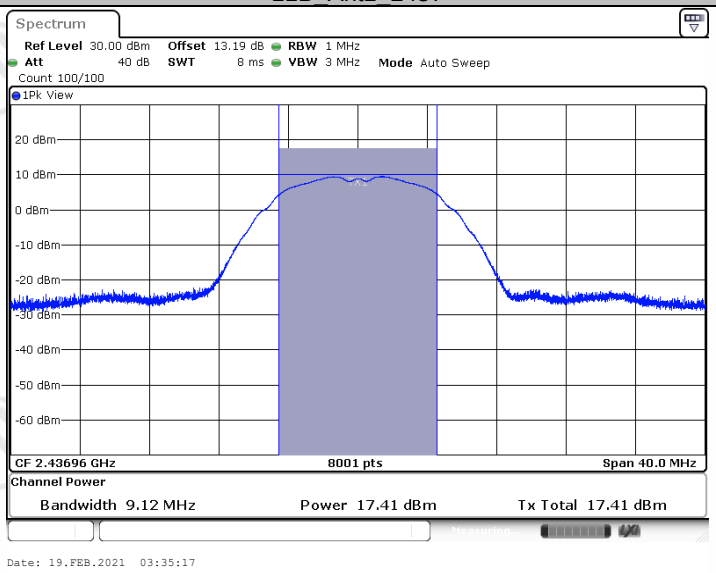
11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



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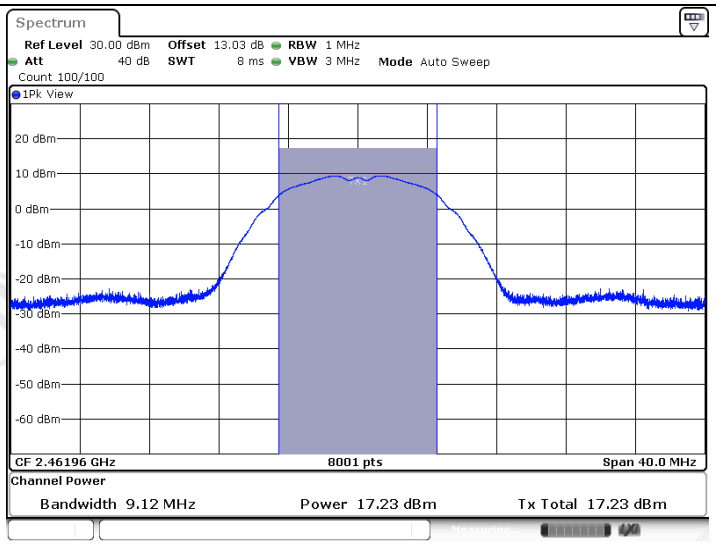

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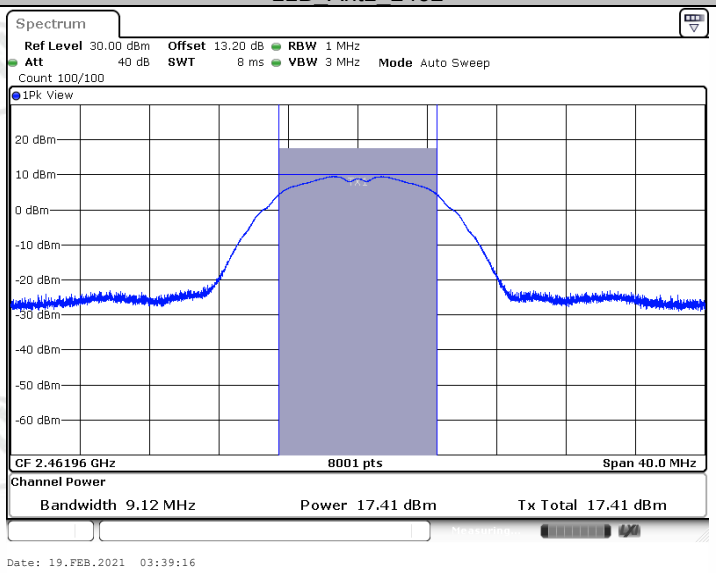

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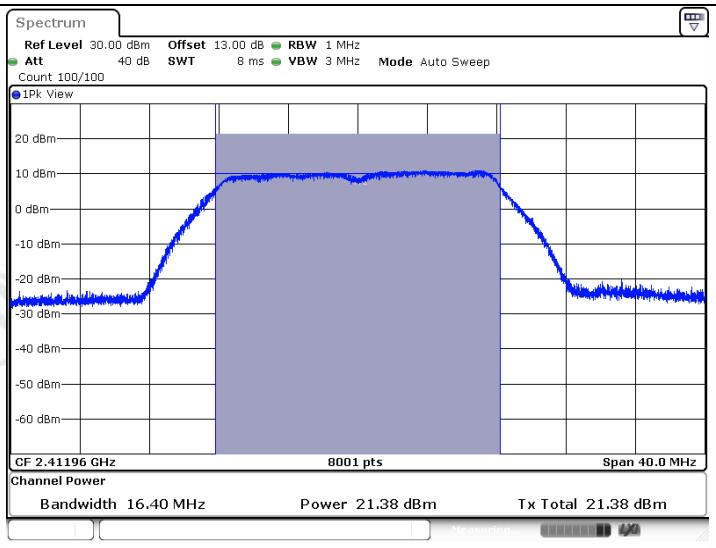

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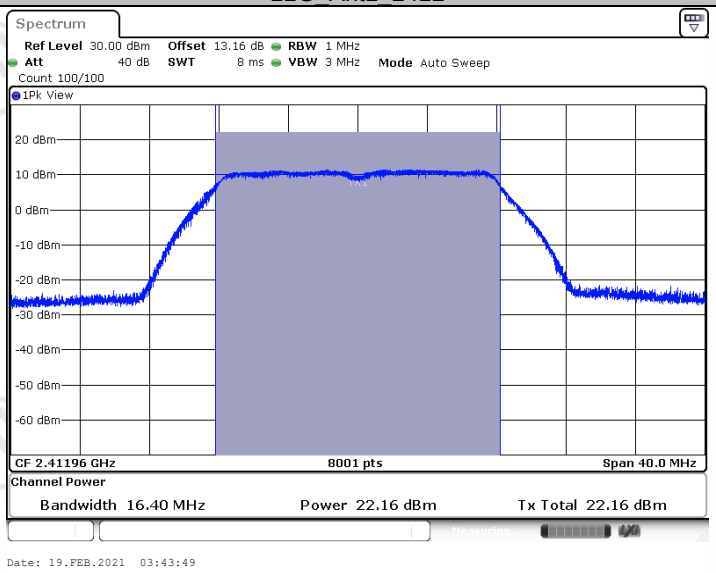

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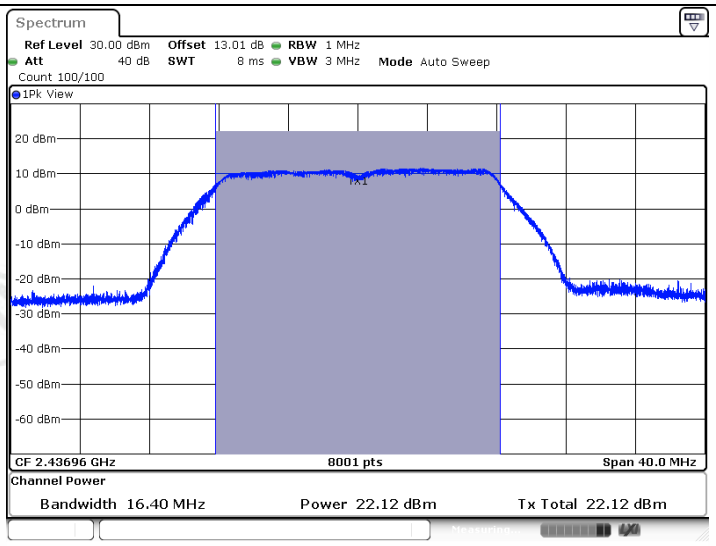

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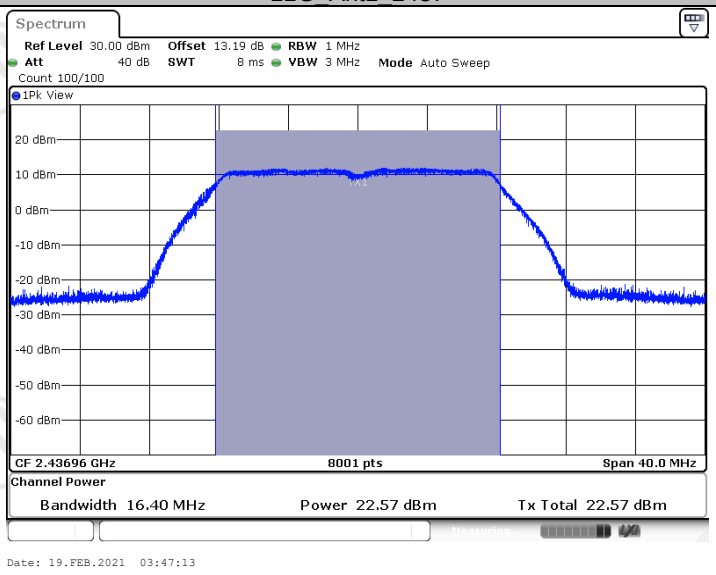

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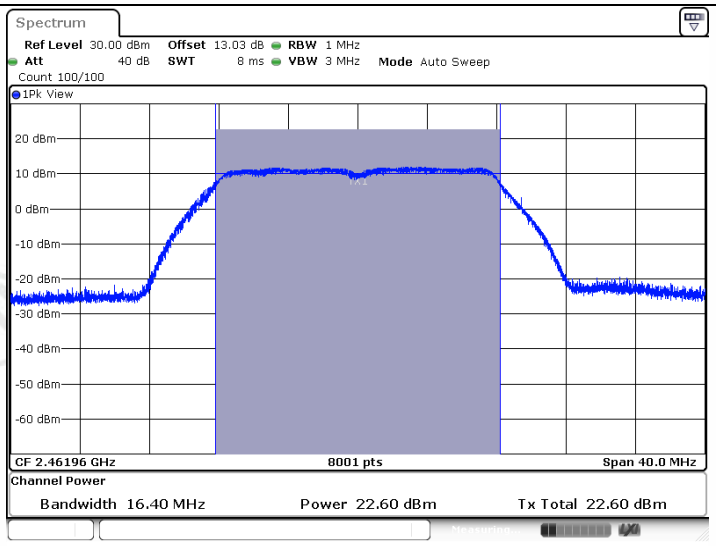

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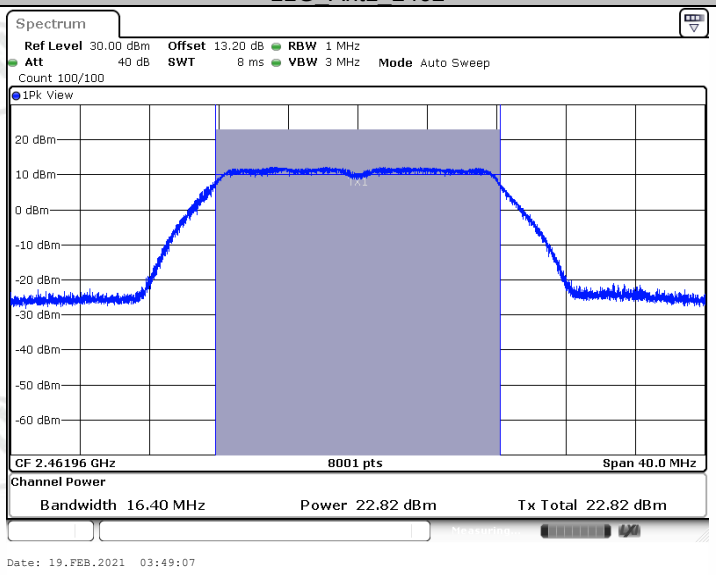

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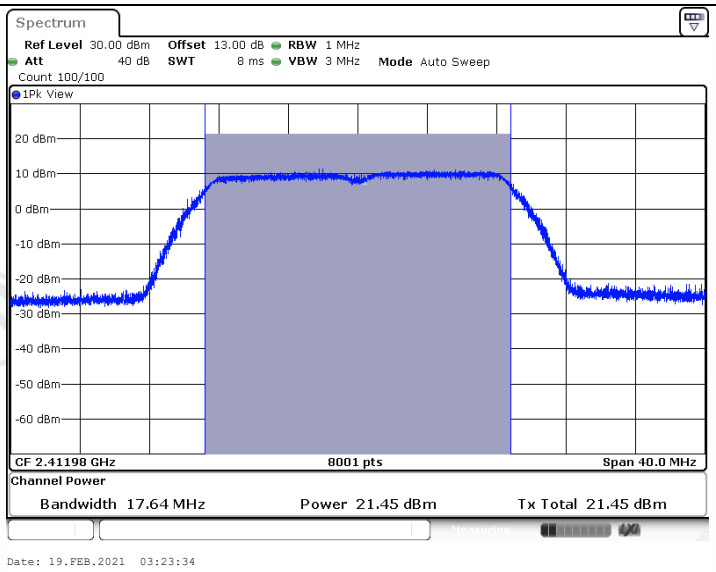

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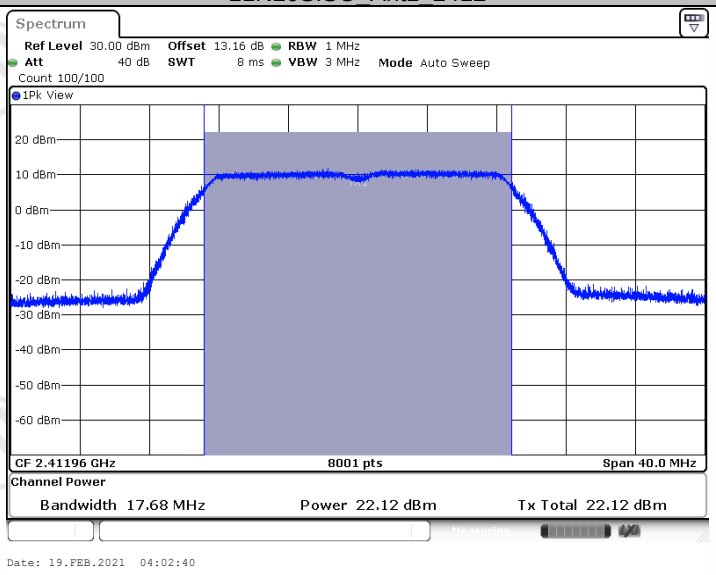

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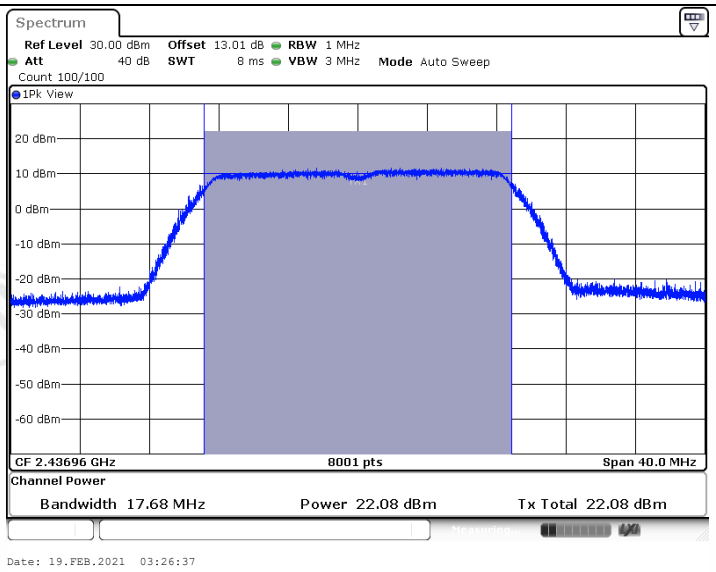

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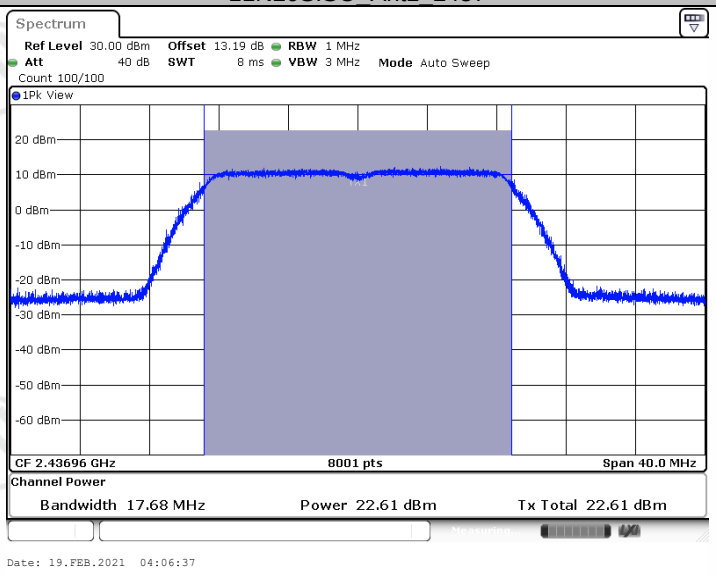

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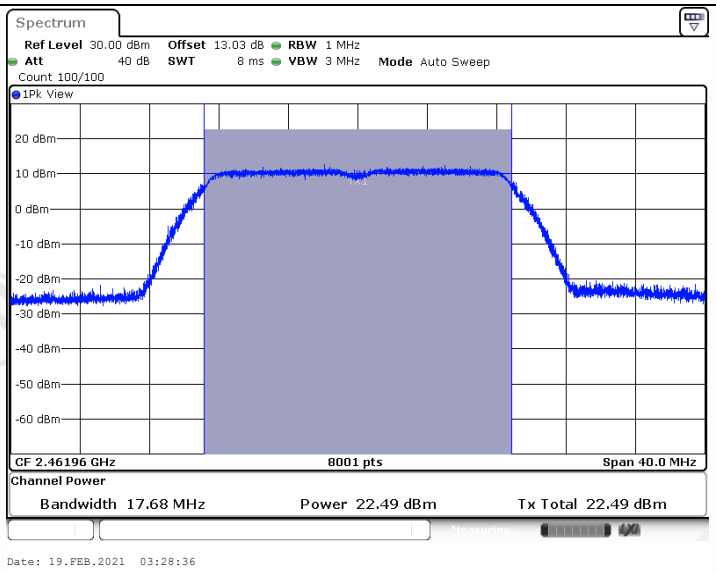

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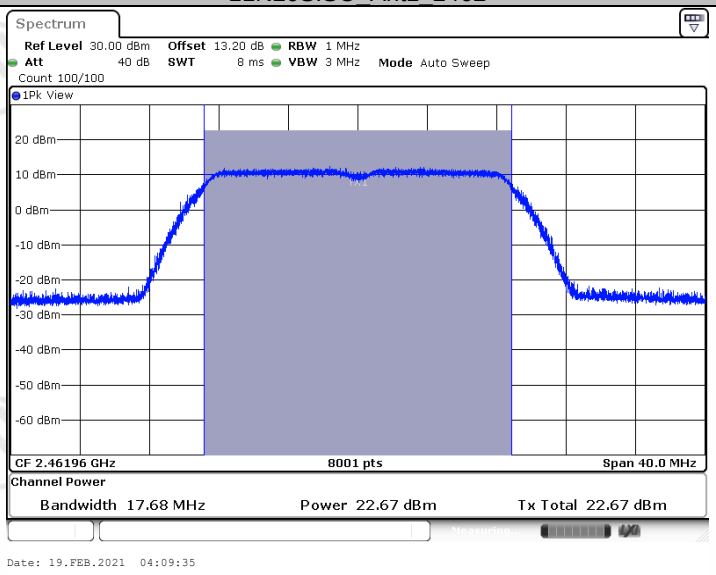

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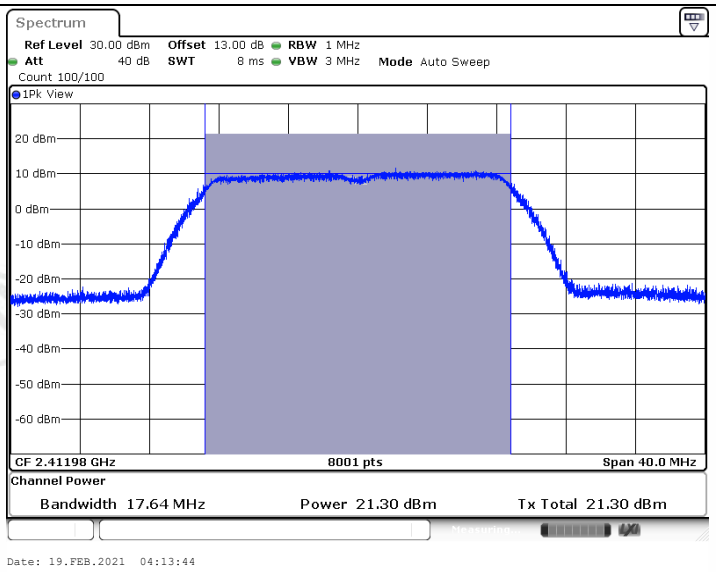

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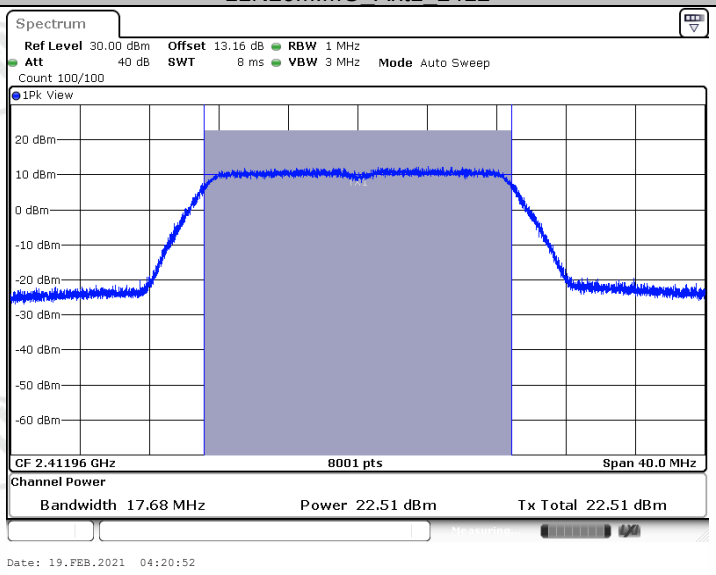

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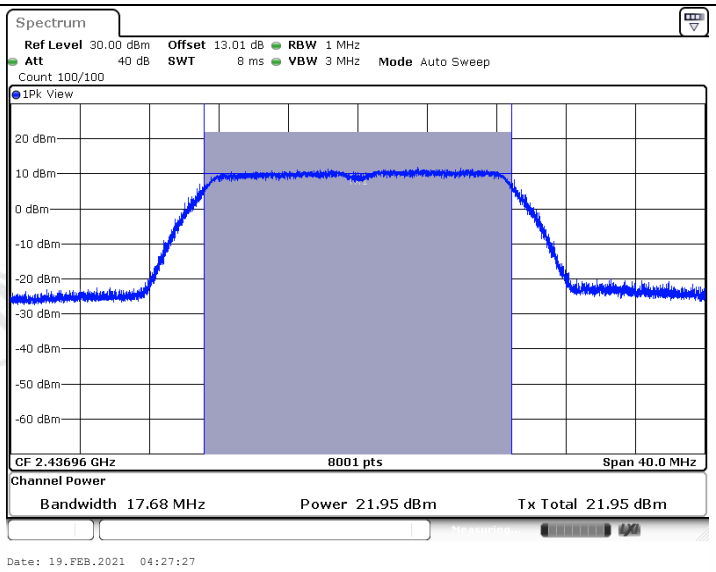

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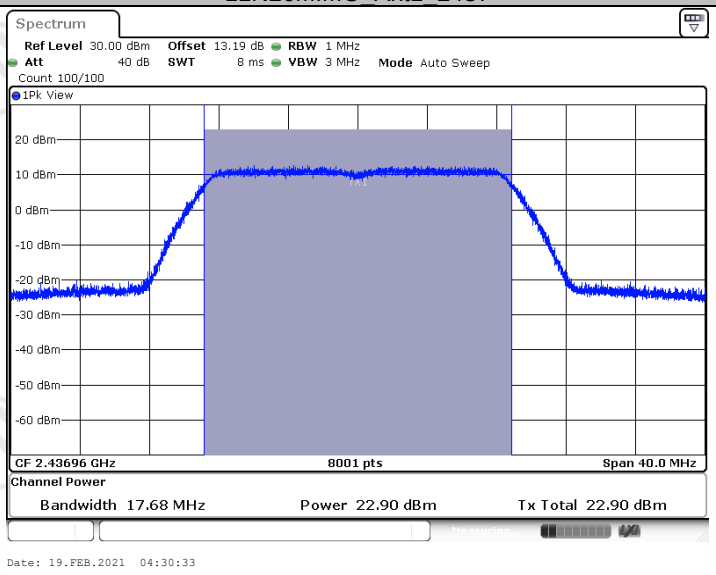

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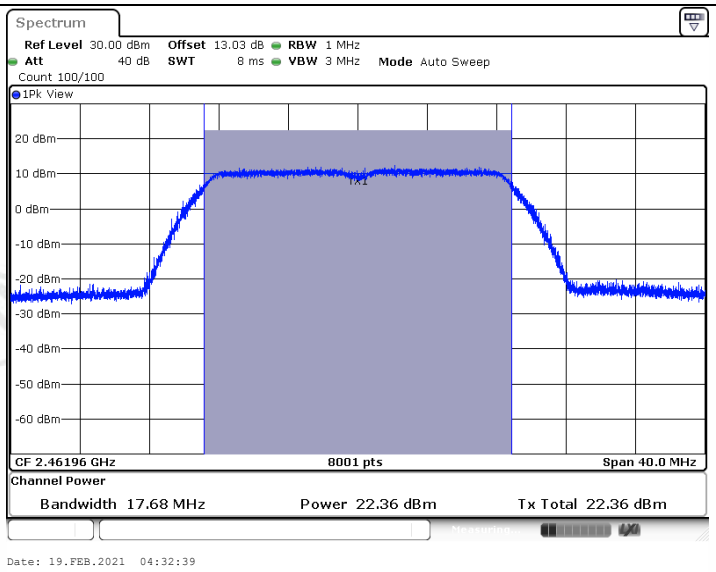

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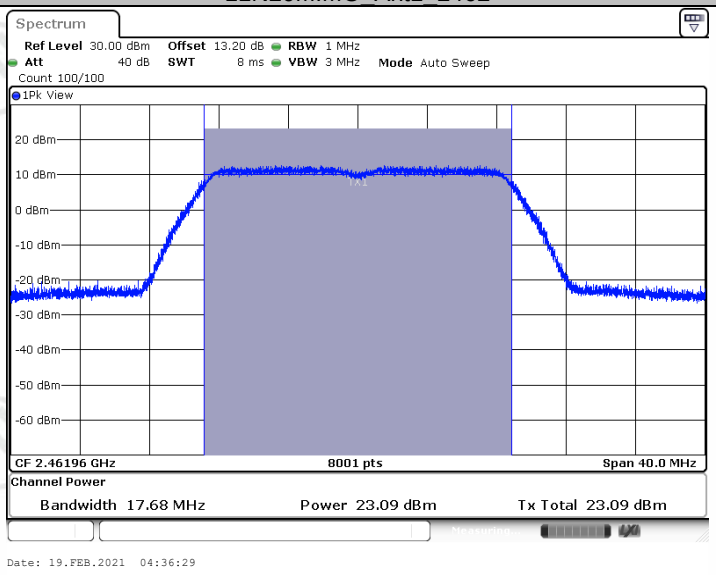


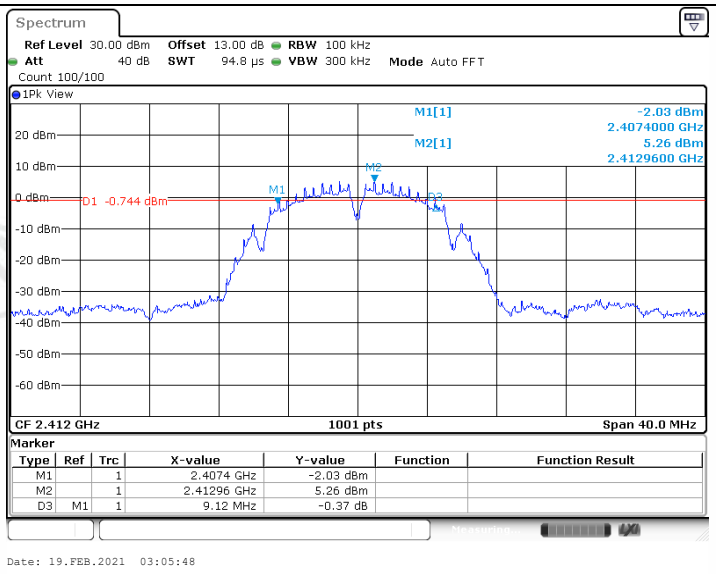
11N20MIMO_Ant2_2462

Appendix B): DTS Bandwidth

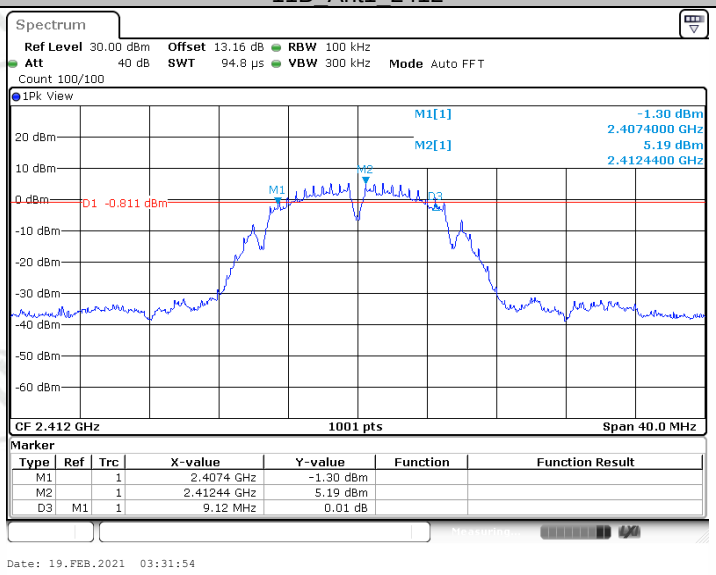
Result Table:

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.400	2416.520	0.5	PASS
	Ant2	2412	9.120	2407.400	2416.520	0.5	PASS
	Ant1	2437	9.120	2432.400	2441.520	0.5	PASS
	Ant2	2437	9.120	2432.400	2441.520	0.5	PASS
	Ant1	2462	9.120	2457.400	2466.520	0.5	PASS
	Ant2	2462	9.120	2457.400	2466.520	0.5	PASS
11G	Ant1	2412	16.400	2403.760	2420.160	0.5	PASS
	Ant2	2412	16.400	2403.760	2420.160	0.5	PASS
	Ant1	2437	16.400	2428.760	2445.160	0.5	PASS
	Ant2	2437	16.400	2428.760	2445.160	0.5	PASS
	Ant1	2462	16.400	2453.760	2470.160	0.5	PASS
	Ant2	2462	16.400	2453.760	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
	Ant2	2412	17.680	2403.120	2420.800	0.5	PASS
	Ant1	2437	17.680	2428.120	2445.800	0.5	PASS
	Ant2	2437	17.680	2428.120	2445.800	0.5	PASS
	Ant1	2462	17.680	2453.120	2470.800	0.5	PASS
	Ant2	2462	17.680	2453.120	2470.800	0.5	PASS
11N20MIMO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
	Ant2	2412	17.680	2403.120	2420.800	0.5	PASS
	Ant1	2437	17.680	2428.120	2445.800	0.5	PASS
	Ant2	2437	17.680	2428.120	2445.800	0.5	PASS
	Ant1	2462	17.680	2453.120	2470.800	0.5	PASS
	Ant2	2462	17.680	2453.120	2470.800	0.5	PASS

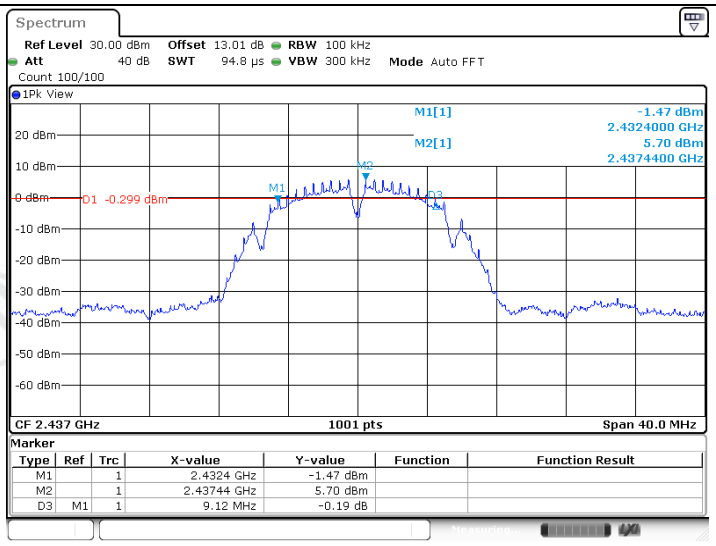
Test Graph:



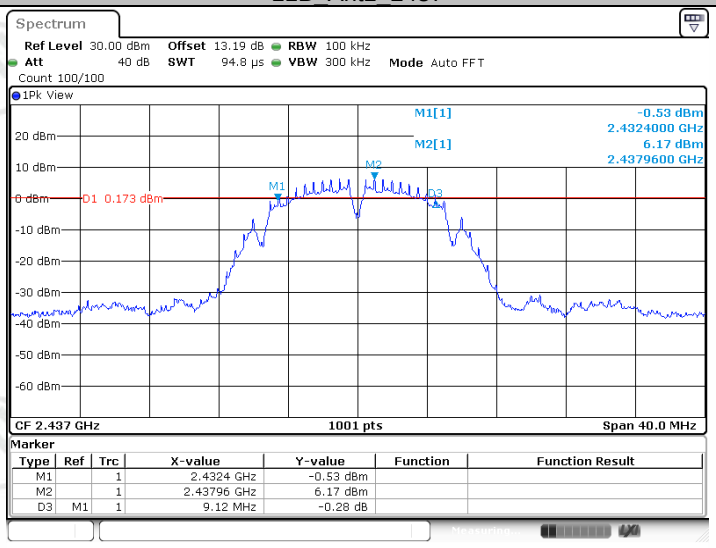
11B_Ant1_2412



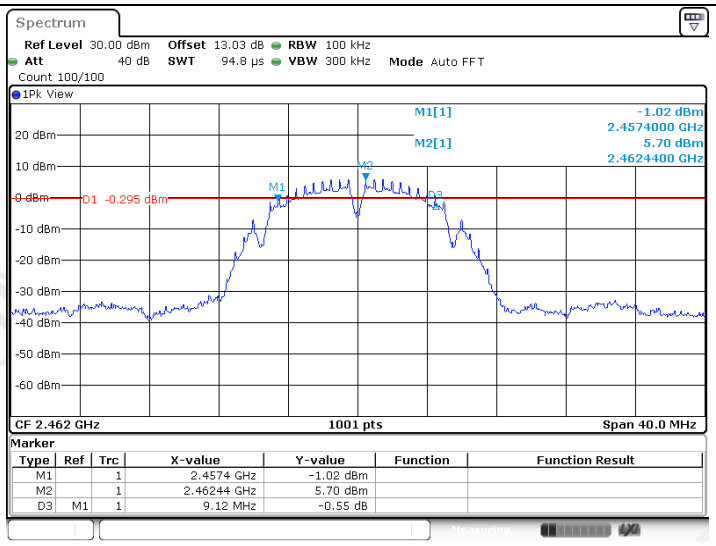
11B_Ant2_2412



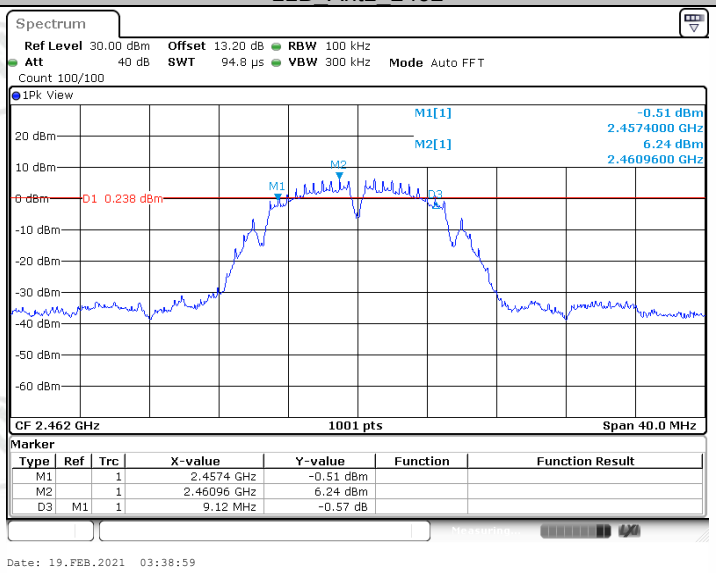
11B_Ant1_2437



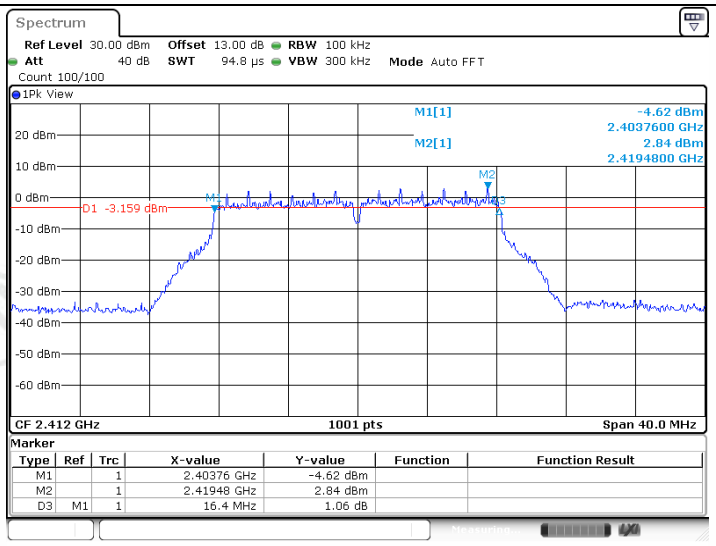
11B_Ant2_2437



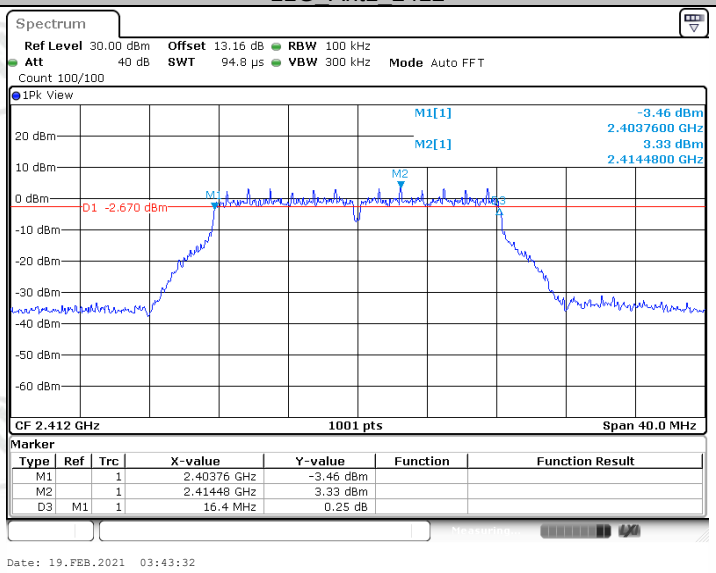
11B_Ant1_2462



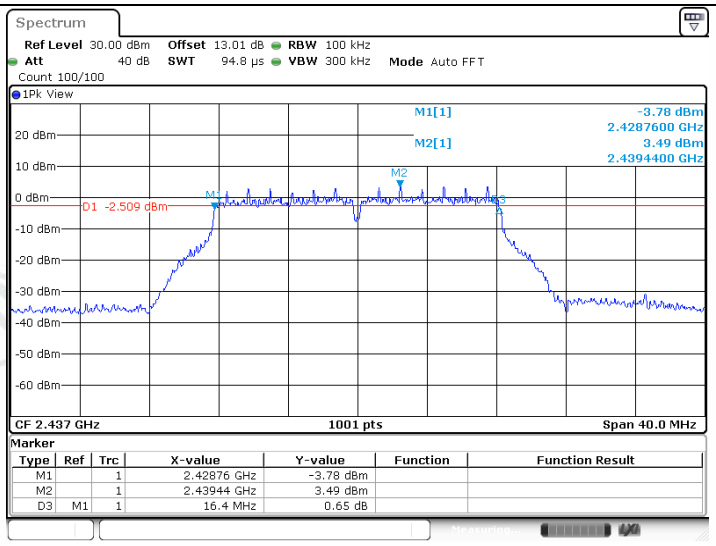
11B_Ant2_2462



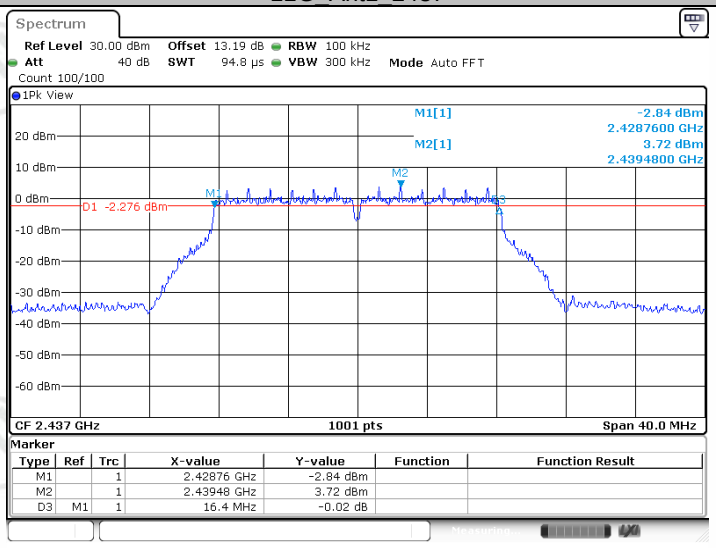
11G_Ant1_2412



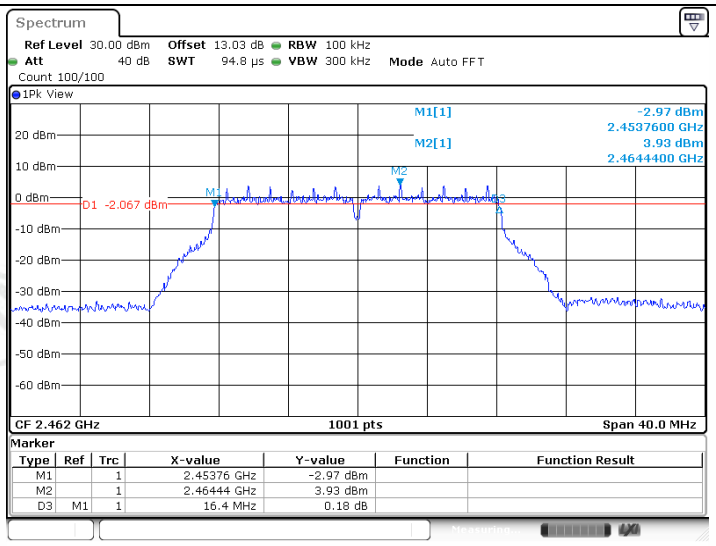
11G_Ant2_2412



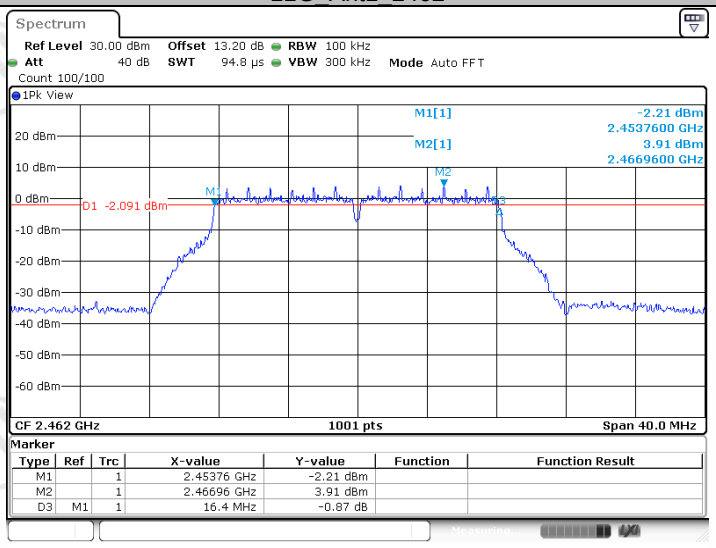
11G_Ant1_2437



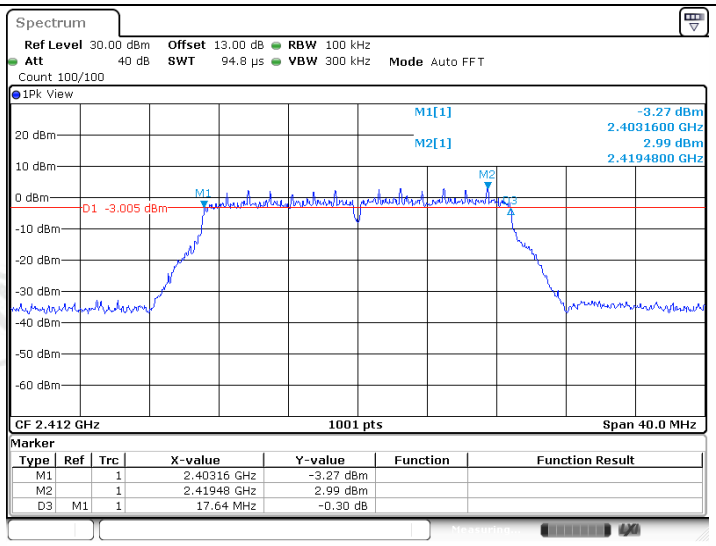
11G_Ant2_2437



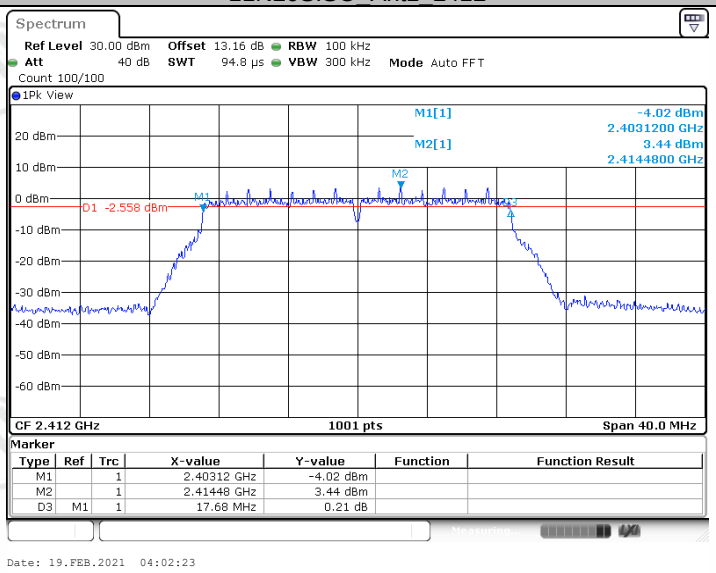
11G_Ant1_2462



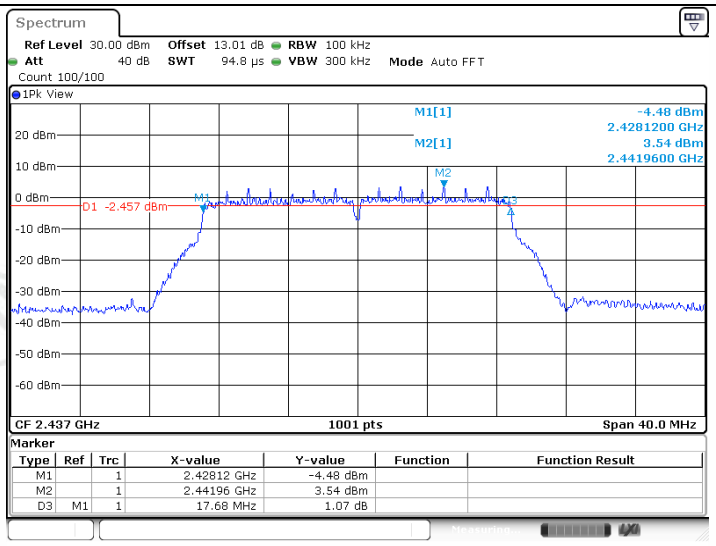
11G_Ant2_2462



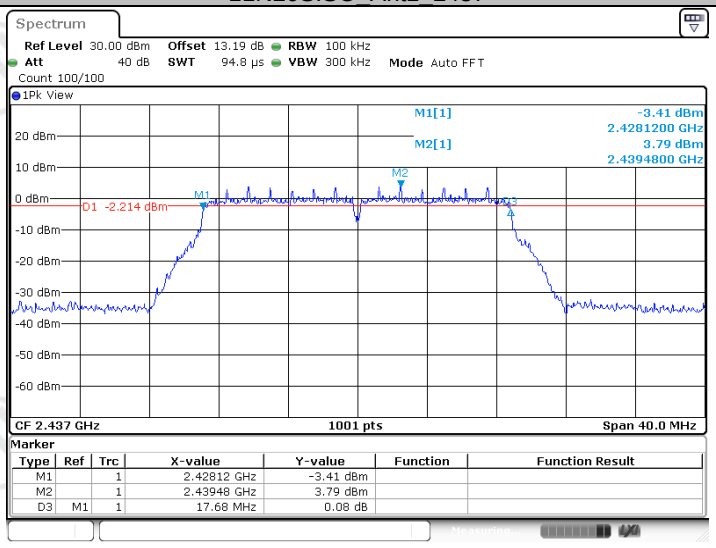
11N20SISO_Ant1_2412



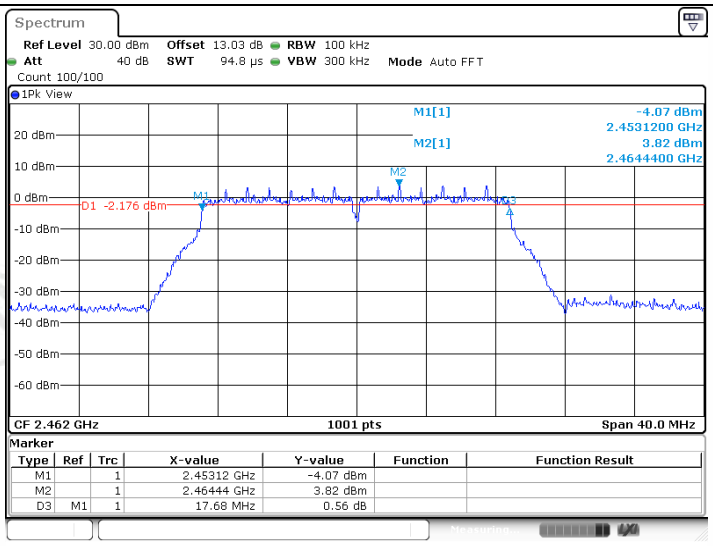
11N20SISO_Ant2_2412



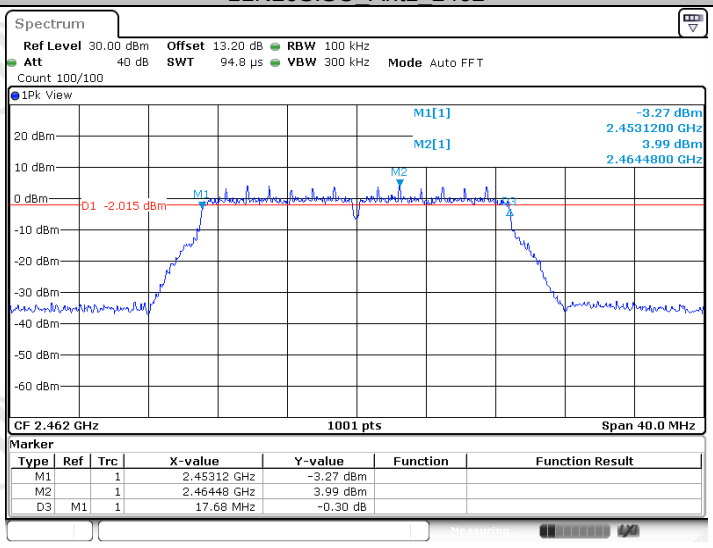
11N20SISO_Ant1_2437



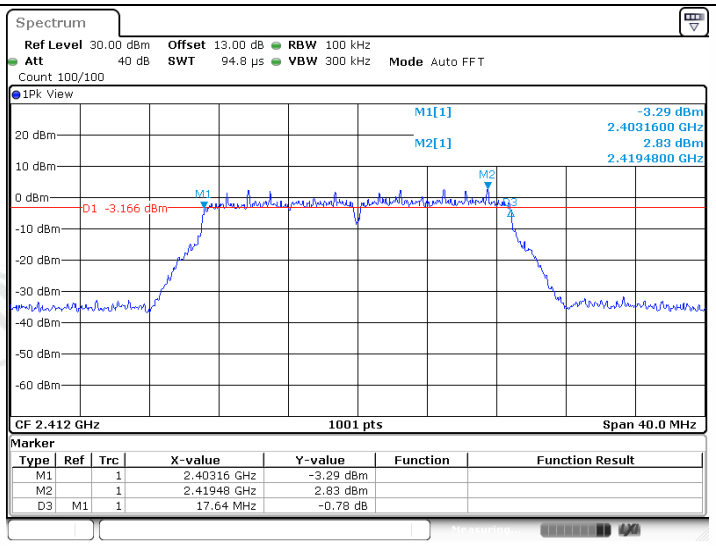
11N20SISO_Ant2_2437



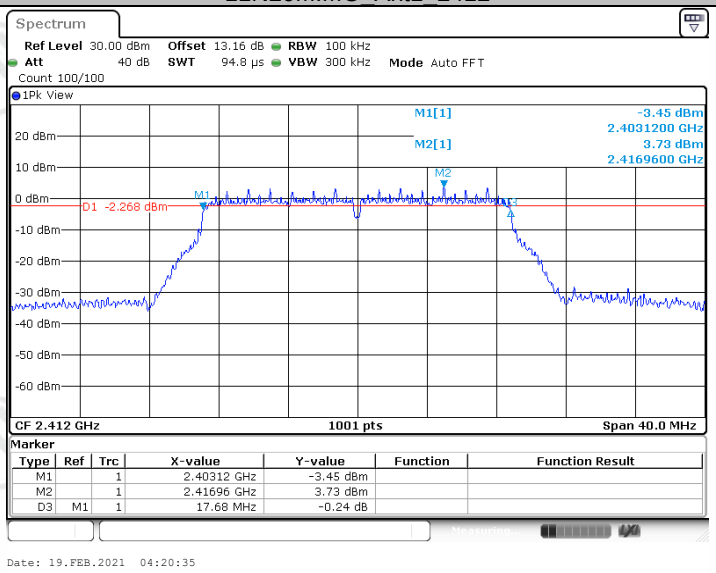
11N20SISO_Ant1_2462



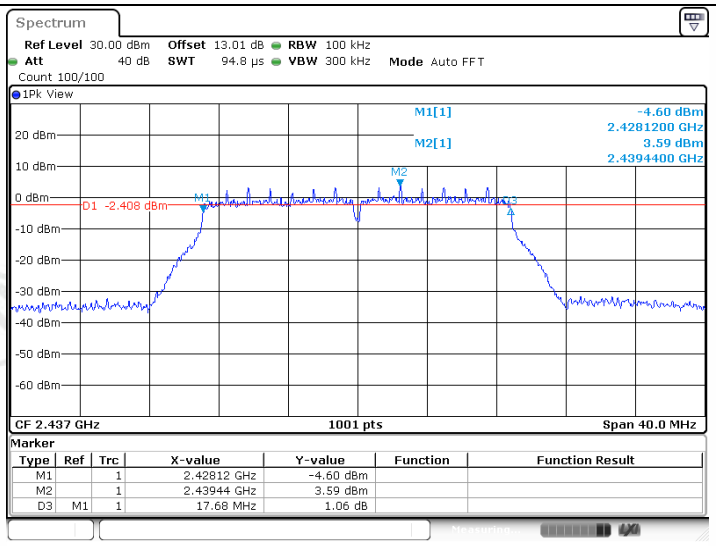
11N20SISO_Ant2_2462



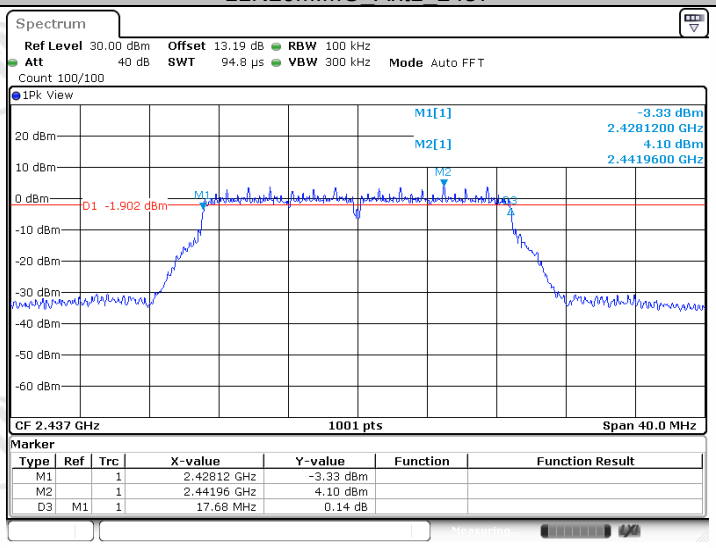
11N20MIMO_Ant1_2412



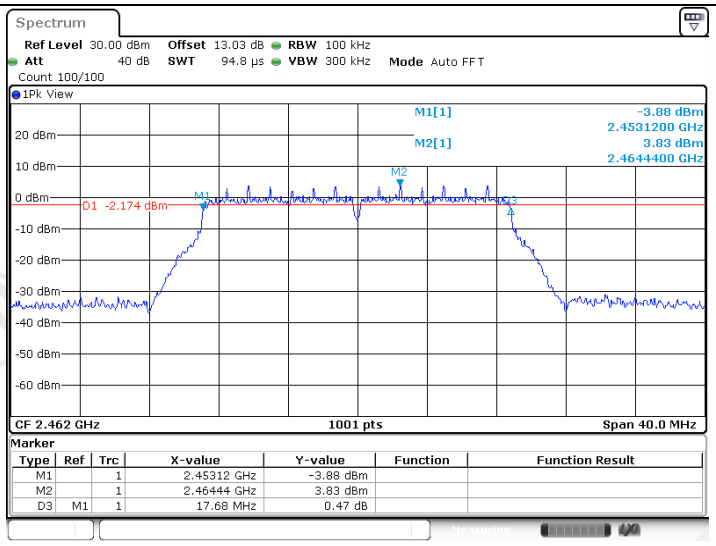
11N20MIMO_Ant2_2412



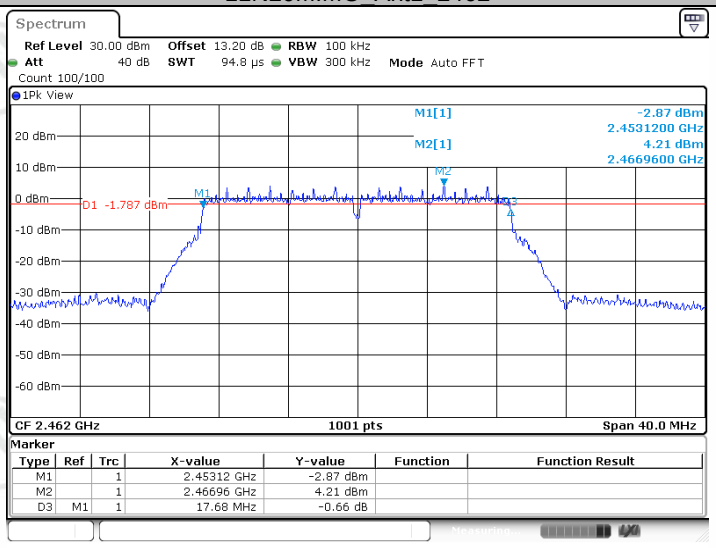
11N20MIMO_Ant1_2437



11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462



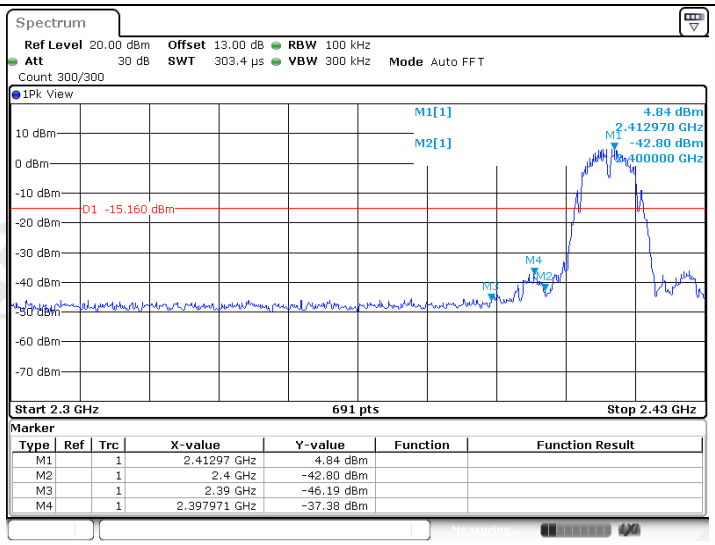
11N20MIMO_Ant2_2462

Appendix C): Band-edge for RF Conducted Emissions

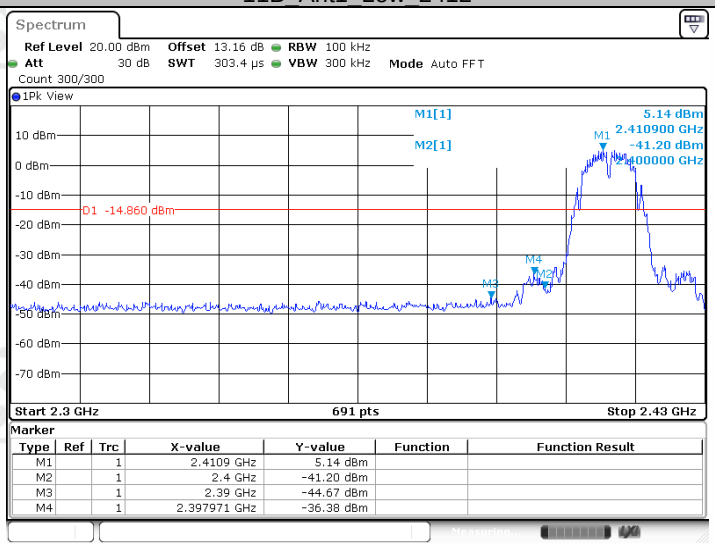
Result Table:

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.84	-37.38	<=-15.16	PASS
	Ant2	Low	2412	5.14	-36.38	<=-14.86	PASS
	Ant1	High	2462	5.64	-43.43	<=-14.36	PASS
	Ant2	High	2462	5.72	-44.66	<=-14.28	PASS
11G	Ant1	Low	2412	2.93	-36.96	<=-17.07	PASS
	Ant2	Low	2412	3.07	-37.37	<=-16.93	PASS
	Ant1	High	2462	3.83	-38.98	<=-16.17	PASS
	Ant2	High	2462	3.44	-40.25	<=-16.56	PASS
11N20SISO	Ant1	Low	2412	2.94	-36.55	<=-17.06	PASS
	Ant2	Low	2412	2.63	-37.47	<=-17.37	PASS
	Ant1	High	2462	3.83	-39.28	<=-16.17	PASS
	Ant2	High	2462	3.92	-40.2	<=-16.08	PASS
11N20MIMO	Ant1	Low	2412	2.87	-33.48	<=-17.13	PASS
	Ant2	Low	2412	2.67	-33.17	<=-17.33	PASS
	Ant1	High	2462	3.61	-38.25	<=-16.39	PASS
	Ant2	High	2462	4.14	-37.96	<=-15.86	PASS

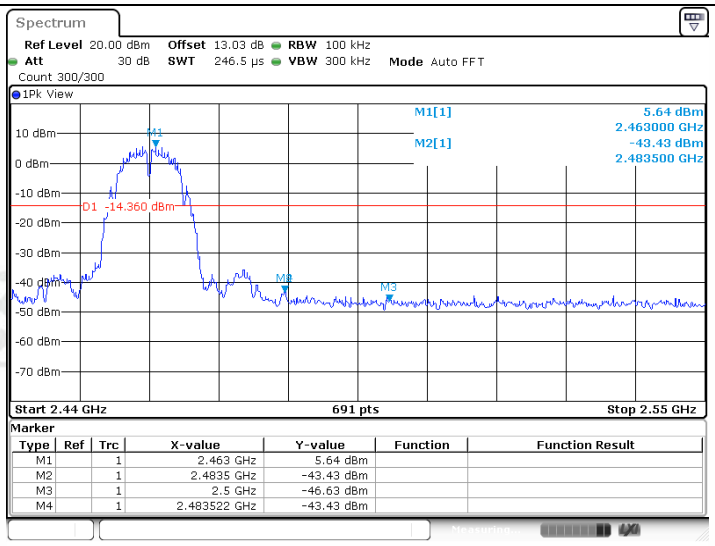
Test Graph:



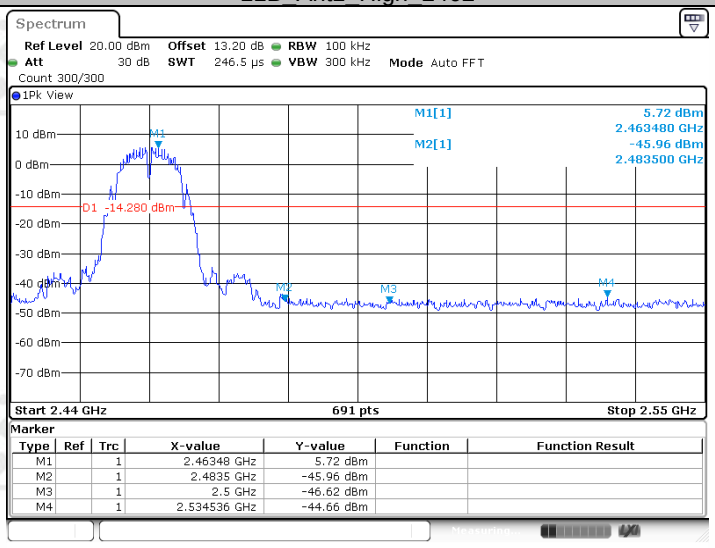
11B_Ant1_Low_2412



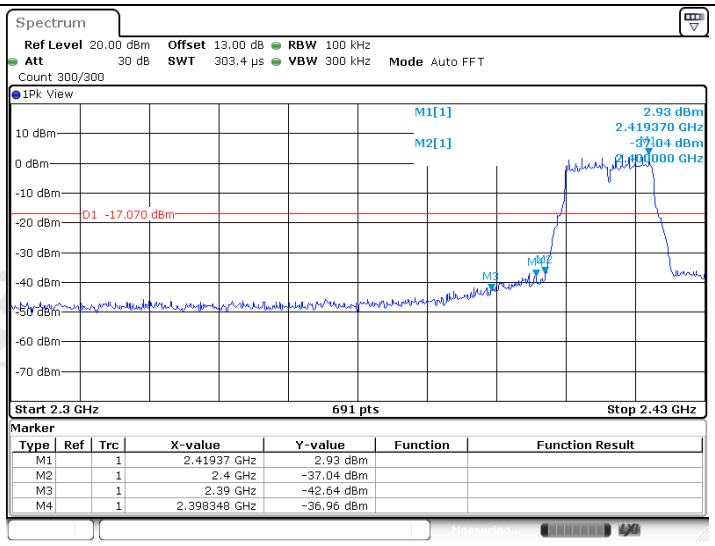
11B_Ant2_Low_2412



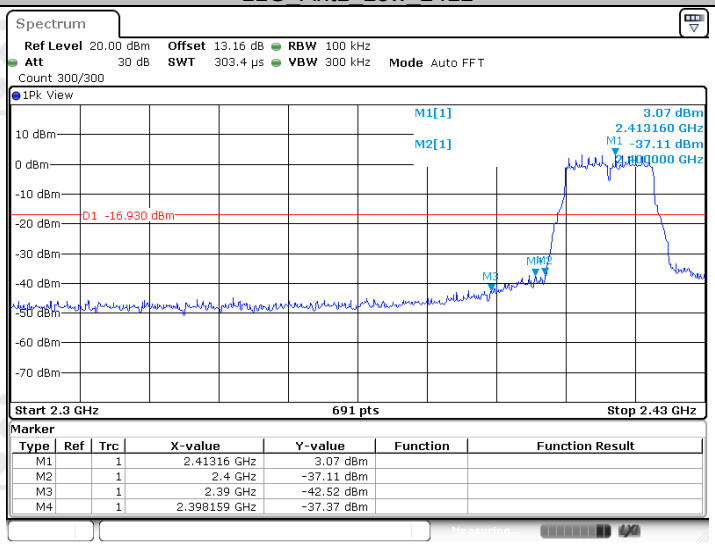
11B_Ant1_High_2462



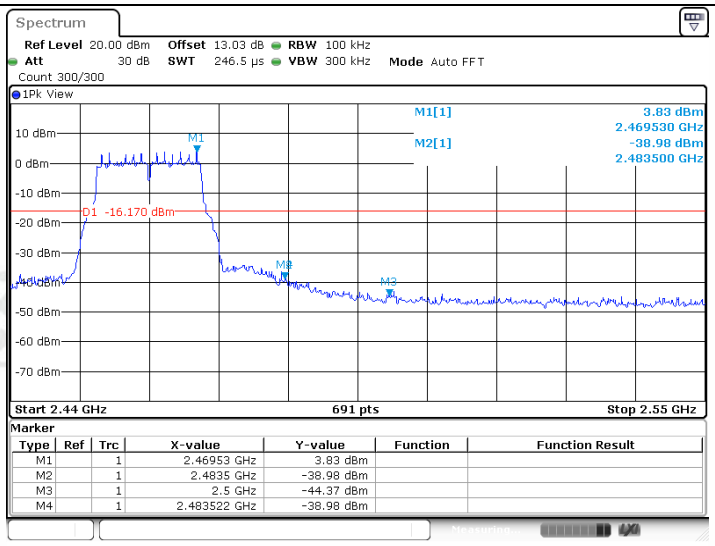
11B_Ant2_High_2462



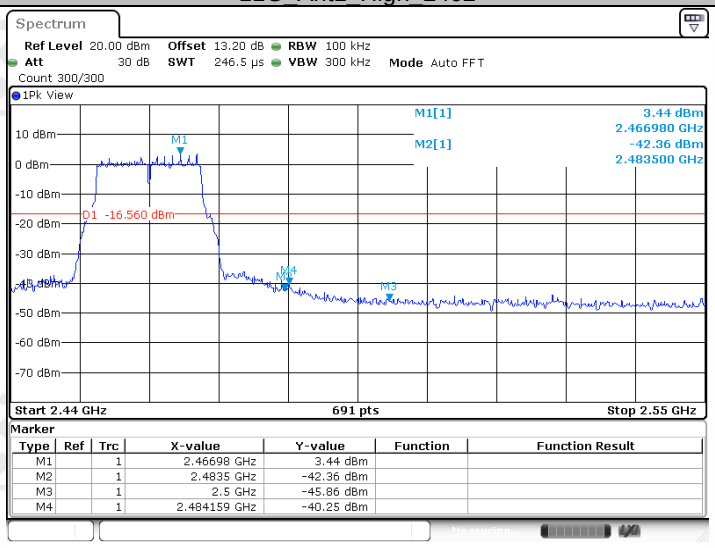
11G_Ant1_Low_2412



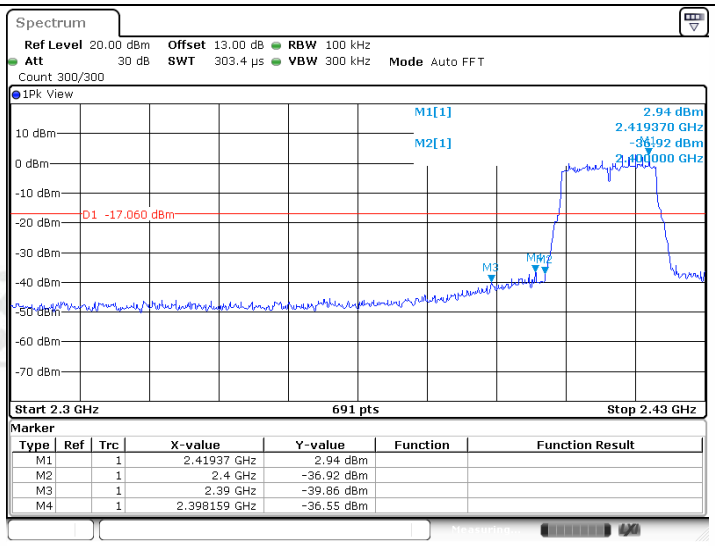
11G_Ant2_Low_2412



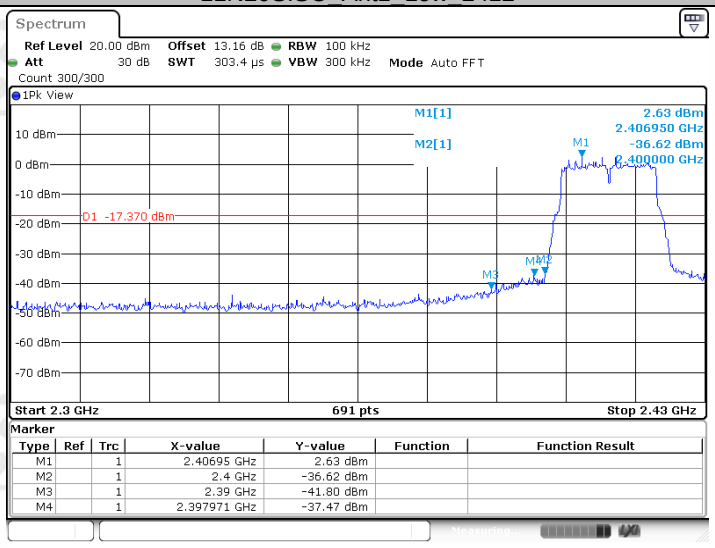
11G_Ant1_High_2462



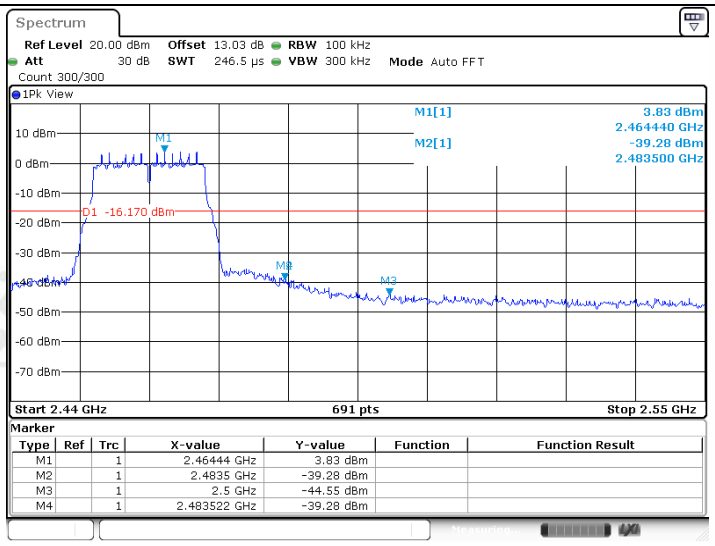
11G_Ant2_High_2462



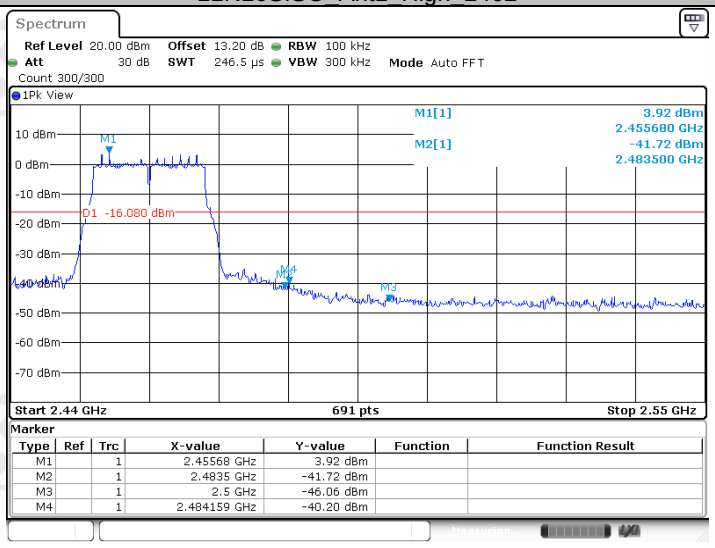
11N20SISO_Ant1_Low_2412



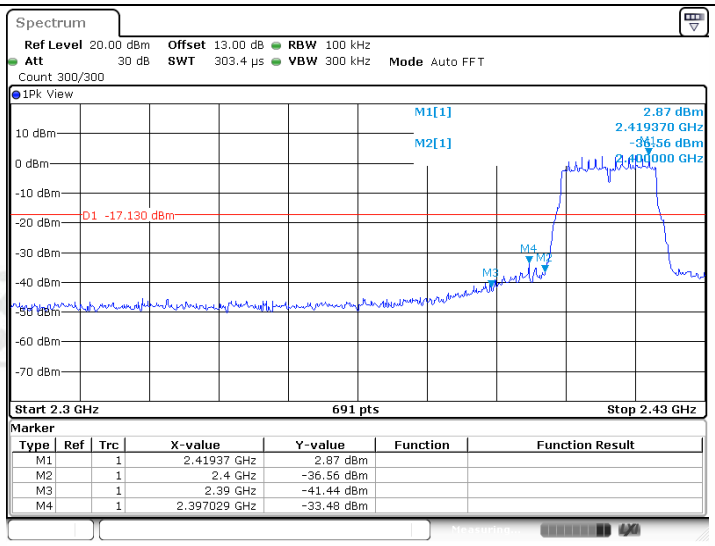
11N20SISO_Ant2_Low_2412



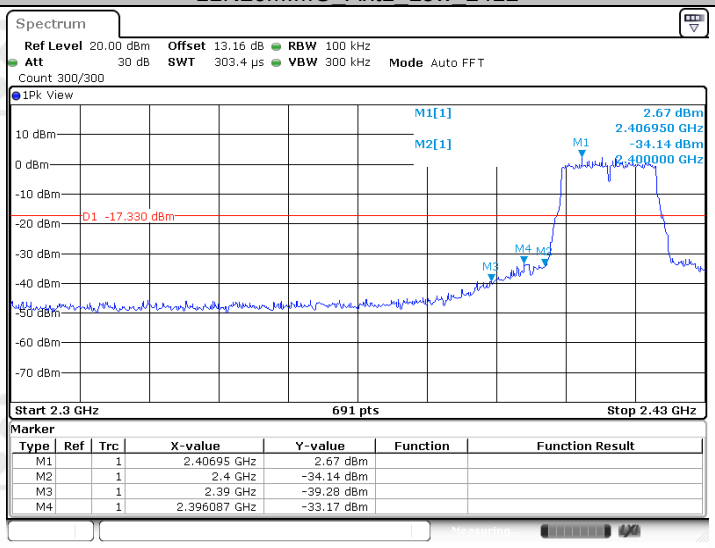
11N20SISO_Ant1_High_2462



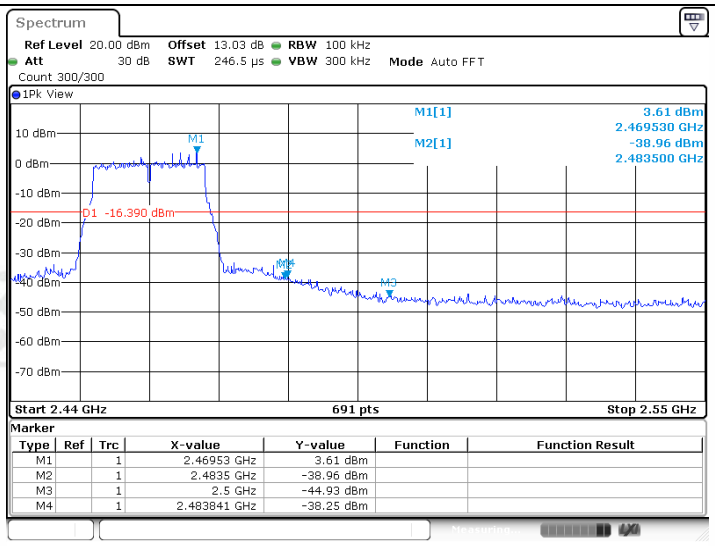
11N20SISO_Ant2_High_2462



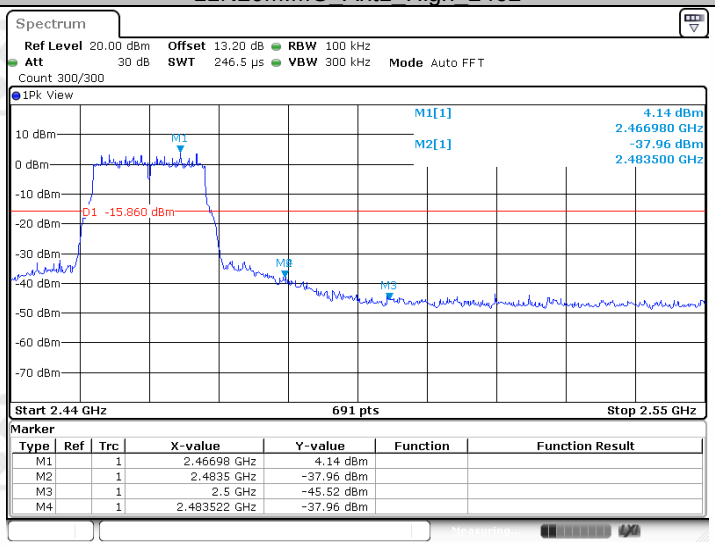
11N20MIMO_Ant1_Low_2412



11N20MIMO_Ant2_Low_2412



11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462

Appendix D): RF Conducted Spurious Emissions

Result Table:

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-55.53	<=-15.18	PASS
			1000~26500	4.82	-46.27	<=-15.18	PASS
	Ant2	2412	Reference	5.45	5.45	---	PASS
			30~1000	5.45	-55.56	<=-14.55	PASS
			1000~26500	5.45	-45.6	<=-14.55	PASS
	Ant1	2437	Reference	5.53	5.53	---	PASS
			30~1000	5.53	-55.98	<=-14.47	PASS
			1000~26500	5.53	-46.34	<=-14.47	PASS
	Ant2	2437	Reference	5.90	5.90	---	PASS
			30~1000	5.90	-55.16	<=-14.1	PASS
			1000~26500	5.90	-45.02	<=-14.1	PASS
	Ant1	2462	Reference	5.71	5.71	---	PASS
			30~1000	5.71	-56.23	<=-14.29	PASS
			1000~26500	5.71	-45.14	<=-14.29	PASS
	Ant2	2462	Reference	5.86	5.86	---	PASS
			30~1000	5.86	-55.67	<=-14.14	PASS
			1000~26500	5.86	-45.32	<=-14.14	PASS
11G	Ant1	2412	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-55.64	<=-17.16	PASS
			1000~26500	2.84	-45.58	<=-17.16	PASS
	Ant2	2412	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-55.28	<=-17.78	PASS
			1000~26500	2.22	-46.45	<=-17.78	PASS
	Ant1	2437	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-55.67	<=-17.05	PASS
			1000~26500	2.95	-46.31	<=-17.05	PASS
	Ant2	2437	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-54.71	<=-16.47	PASS
			1000~26500	3.53	-45.6	<=-16.47	PASS
	Ant1	2462	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-55.42	<=-16.22	PASS
			1000~26500	3.78	-45.92	<=-16.22	PASS

	Ant2	2462	Reference	4.09	4.09	---	PASS
			30~1000	4.09	-55.8	<=-15.91	PASS
			1000~26500	4.09	-45.89	<=-15.91	PASS
11N20SISO	Ant1	2412	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-55.53	<=-17.06	PASS
			1000~26500	2.94	-46.42	<=-17.06	PASS
	Ant2	2412	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-55.31	<=-16.65	PASS
			1000~26500	3.35	-45.91	<=-16.65	PASS
	Ant1	2437	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-55.04	<=-16.77	PASS
			1000~26500	3.23	-45.49	<=-16.77	PASS
	Ant2	2437	Reference	3.83	3.83	---	PASS
			30~1000	3.83	-54.85	<=-16.17	PASS
			1000~26500	3.83	-45.2	<=-16.17	PASS
	Ant1	2462	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-55.66	<=-16.34	PASS
			1000~26500	3.66	-45	<=-16.34	PASS
	Ant2	2462	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-55.78	<=-16.19	PASS
			1000~26500	3.81	-45.13	<=-16.19	PASS
11N20MIMO	Ant1	2412	Reference	2.41	2.41	---	PASS
			30~1000	2.41	-55.52	<=-17.59	PASS
			1000~26500	2.41	-45.45	<=-17.59	PASS
	Ant2	2412	Reference	3.27	3.27	---	PASS
			30~1000	3.27	-54.87	<=-16.73	PASS
			1000~26500	3.27	-44.84	<=-16.73	PASS
	Ant1	2437	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-55.33	<=-16.88	PASS
			1000~26500	3.12	-45.49	<=-16.88	PASS
	Ant2	2437	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-55.01	<=-15.81	PASS
			1000~26500	4.19	-46.24	<=-15.81	PASS
	Ant1	2462	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-55.11	<=-16.22	PASS
			1000~26500	3.78	-44.98	<=-16.22	PASS
	Ant2	2462	Reference	4.08	4.08	---	PASS