Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640
Fax: +86-755-26648637
Website: www.cqa-cert.com

Report Template Version: V05
Report Template Revision Date: 2021-11-03

TEST REPORT

Report No.:	CQASZ20250200348E-01
Applicant:	Shenzhen Chengyisheng Electronics Co., Ltd
Address of Applicant:	1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Equipment Under Test (EUT):	
Product:	WIRELESS SMART PORTABLE MONITOR
Model No.:	D156, D185, D210, 156UC, 185UC, ASM-20
Test Model No.:	D156, D185, D210
Brand Name:	N/A
FCC ID:	2BM35-V1
Standards:	47 CFR Part 15, Subpart C KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013
Date of Receipt:	2025-02-25
Date of Test:	2025-02-25 to 2025-06-05
Date of Issue:	2025-06-05
Test Result :	**PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Timo Lei

(Timo Lei)

Approved By:

(Jack Ai)

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The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250200348E-01	Rev.01	Initial report	2025-06-05

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Chengyisheng Electronics Co., Ltd
Address of Applicant:	1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Manufacturer:	Shenzhen Chengyisheng Electronics Co., Ltd
Address of Manufacturer:	1901, Block A, Building 1, Anhongji Xingyao Plaza, No. 32 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
Factory:	Huizhou Chengyisheng Electronics Co., Ltd
Address of Factory:	5th Floor, Building 19 and 6th Floor, Buildings 19-20, No.8 Renluoliu Road,Shuikou Street, Huicheng District ,Huizhou City 516055

4.2 General Description of EUT

Product Name:	WIRELESS SMART PORTABLE MONITOR
Model No.:	D156, D185, D210, 156UC, 185UC, ASM-20
Test Model No.:	D156, D185, D210
Trade Mark:	N/A
Software Version:	HC16D3000V20-2502270834
Hardware Version:	CYS-WD-2K-LVDS-V1.11
Power Supply:	Power supply DC12V form adapter
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz; 802.11n(HT40): 2422MHz~2452MHz
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
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 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) :

	13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Product Type:	☒ Mobile ☐ Portable
Test Software of EUT:	RTL8733BU
Antenna Type:	FPC antenna
Antenna Gain:	0.49dBi

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel(802.11n HT40)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz
4	2427MHz	7	2442MHz		
5	2432MHz	8	2447MHz		

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

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

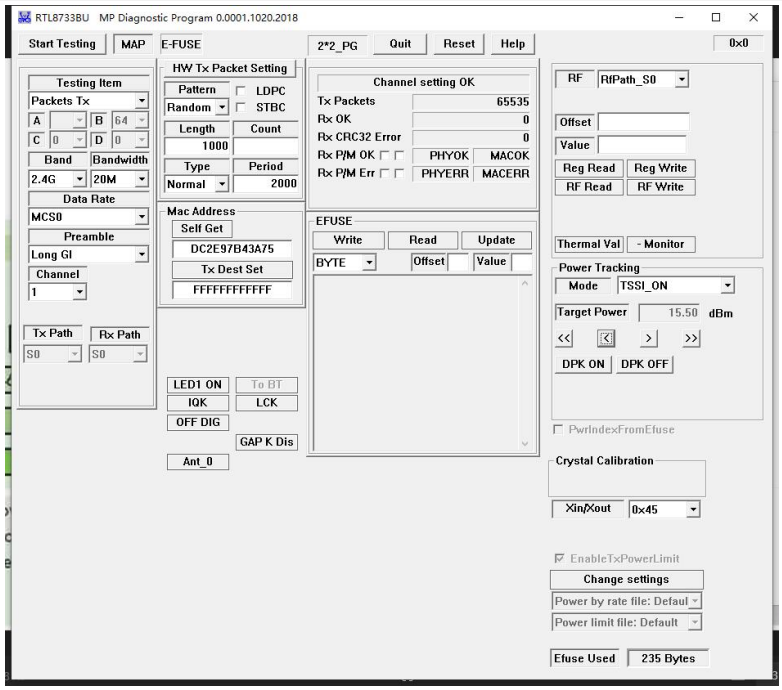
For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

Note:
Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class0
Run Software:	



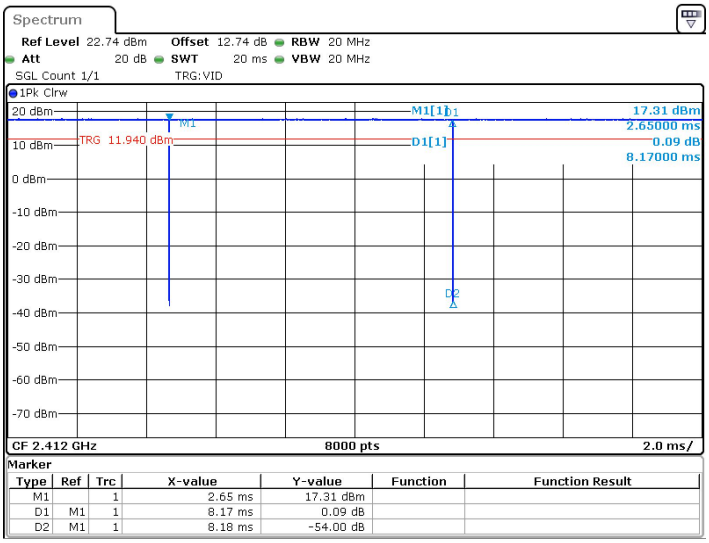
Operated Mode for Worst Duty Cycle:		
Test Mode	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	99.88	/
IEEE802.11g	98.57	/
IEEE802.11n (HT20)	98.51	/
IEEE802.11n (HT40)	97.06	0.13

Remark:

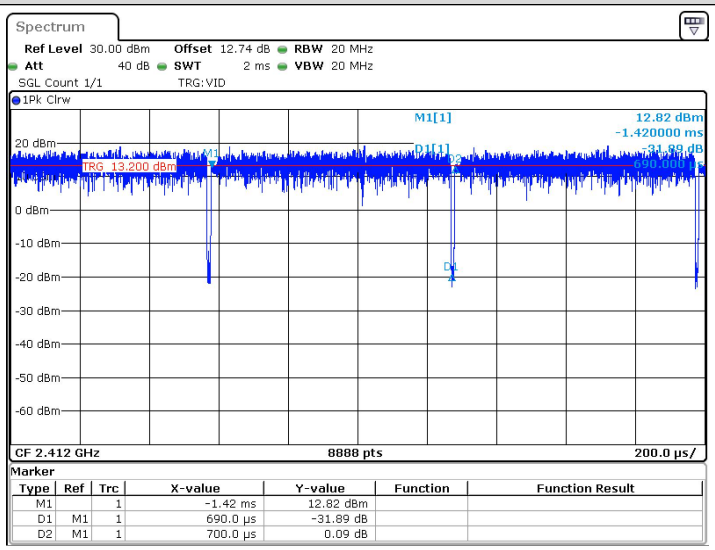
1) Duty cycle= On Time/ Period;

2) Duty Cycle factor = 10 * log(1/ Duty cycle);

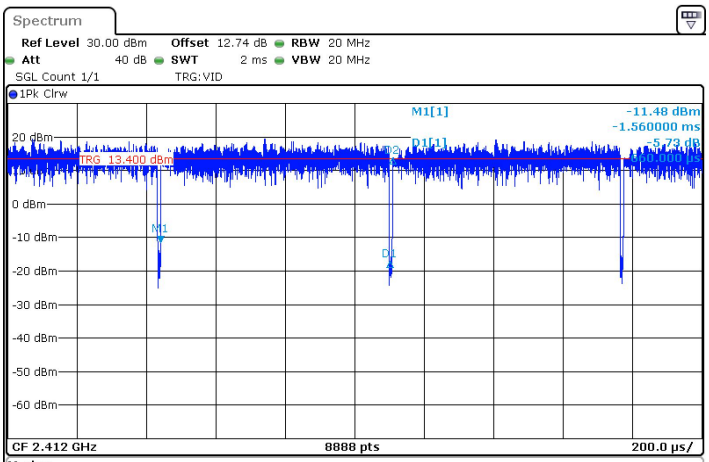
Test Graph_IEEE802.11b Duty Cycle:



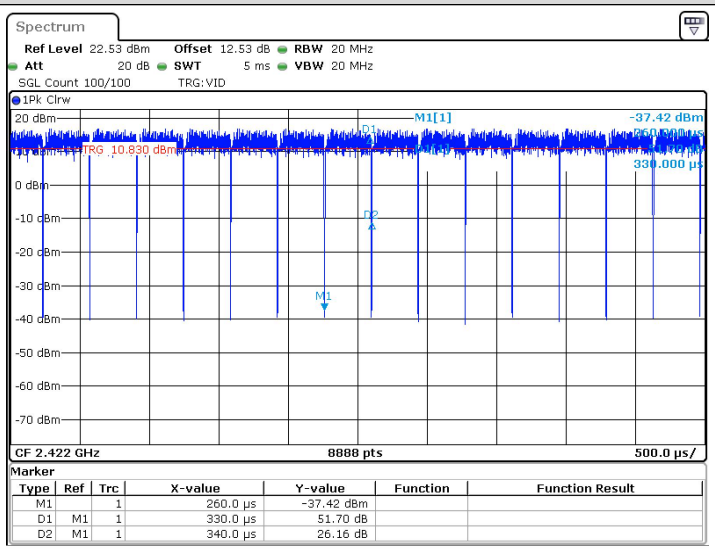
Test Graph_IEEE802.11g Duty Cycle:



Test Graph_IEEE802.11 n (HT20) Duty Cycle:



Test Graph_IEEE802.11 n (HT40) Duty Cycle:



4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.7 Test Facility

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

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.

4.12 Equipment List

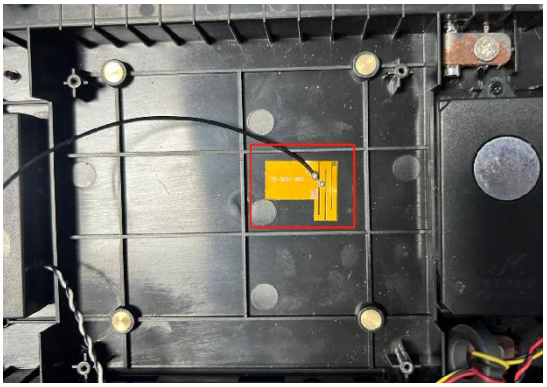
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

Test software:

	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is FPC antenna. The connection/connection type between the antenna to the EUT's antenna port is: unique coupling . This is either permanently attachment or a unique coupling that satisfies the requirement.	

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	150kHz to 30MHz
Limit:	

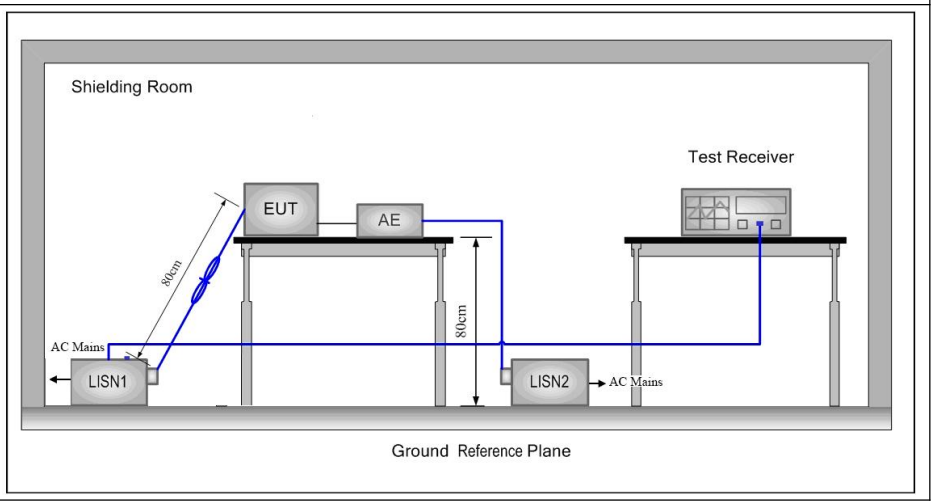
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Procedure:

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.

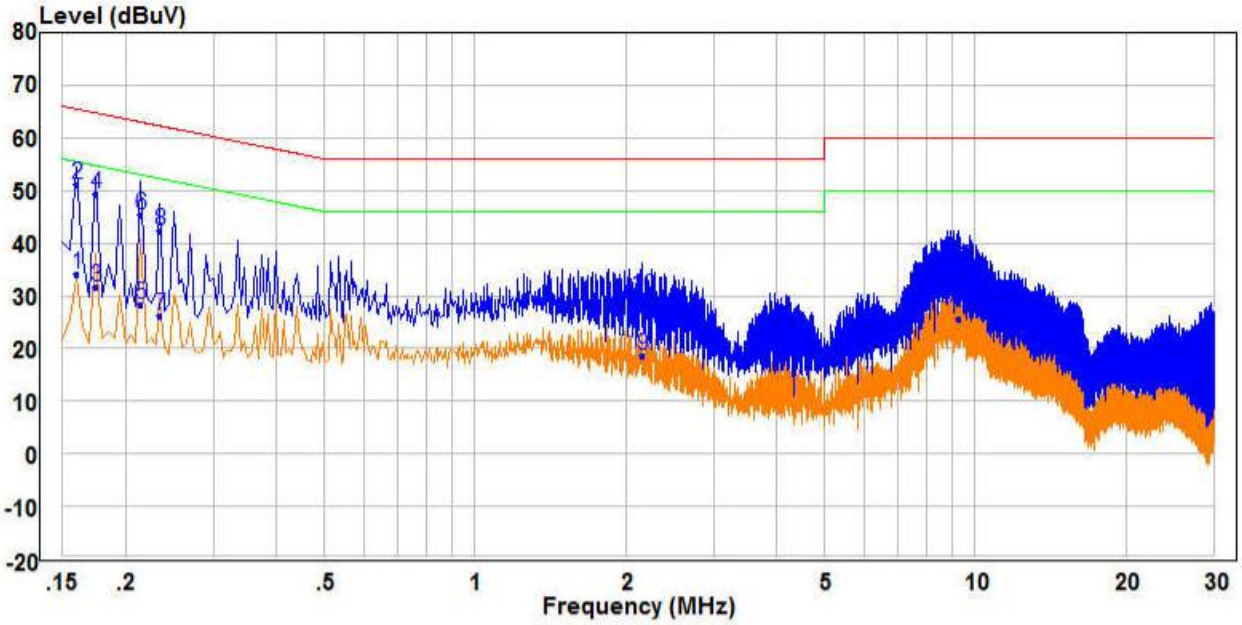
Test Setup:



Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

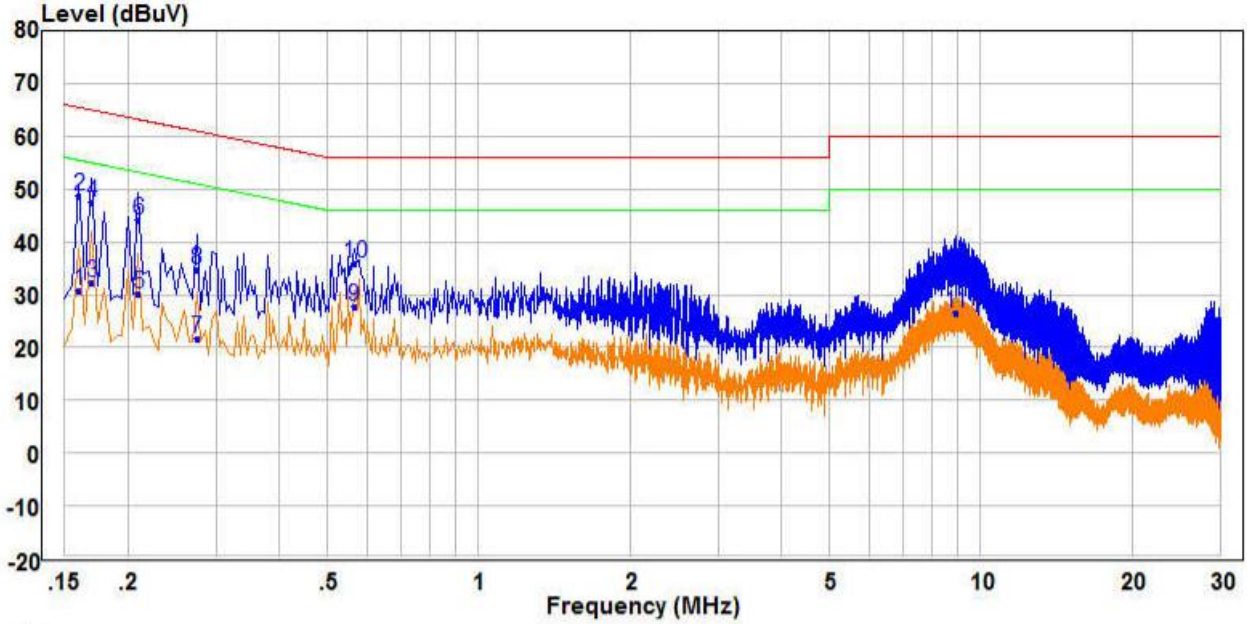
D156(XSE-1202000NUS):

Live Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	AV	0.160	24.35	9.68	34.03	55.46	-21.43	Average	Line
2	PP	0.160	41.48	9.68	51.16	65.46	-14.30	QP	Line
3		0.175	22.00	9.65	31.65	54.72	-23.07	Average	Line
4		0.175	39.61	9.65	49.26	64.72	-15.46	QP	Line
5		0.215	18.65	9.59	28.24	53.01	-24.77	Average	Line
6		0.215	35.69	9.59	45.28	63.01	-17.73	QP	Line
7		0.235	16.72	9.56	26.28	52.27	-25.99	Average	Line
8		0.235	32.74	9.56	42.30	62.27	-19.97	QP	Line
9		2.165	7.03	11.48	18.51	46.00	-27.49	Average	Line
10		2.165	18.41	11.48	29.89	56.00	-26.11	QP	Line
11		9.260	15.65	9.88	25.53	50.00	-24.47	Average	Line
12		9.260	25.36	9.88	35.24	60.00	-24.76	QP	Line

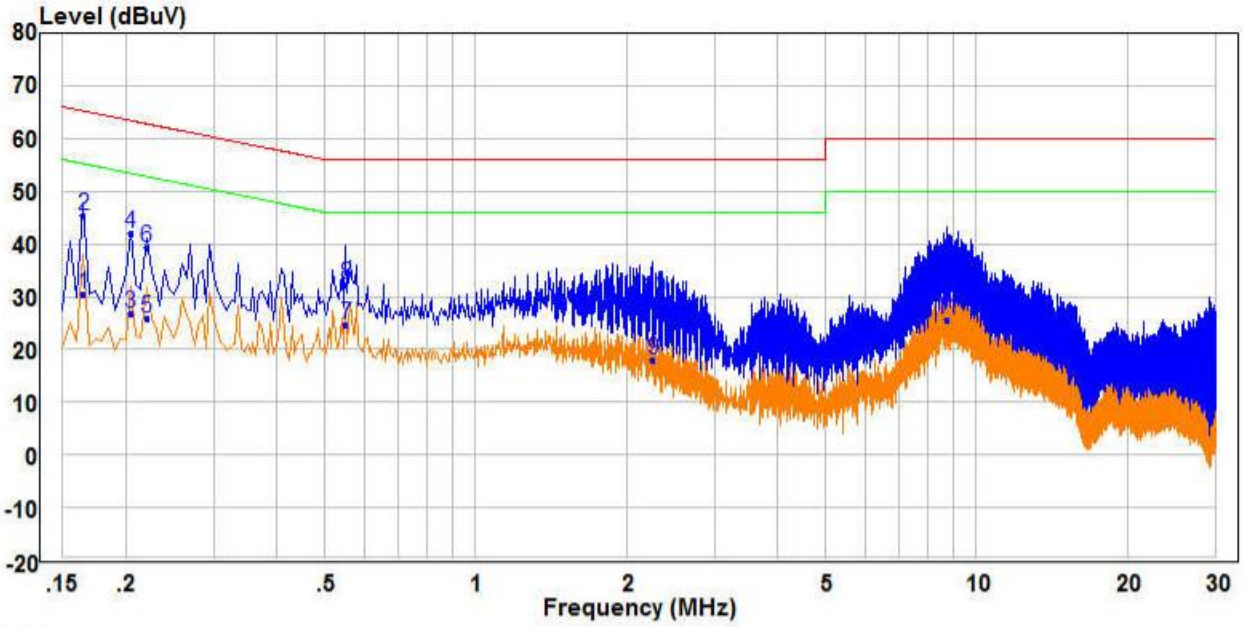
Neutral Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.160	21.19	9.68	30.87	55.46	-24.59	Average	Neutral
2	PP	0.160	38.93	9.68	48.61	65.46	-16.85	QP	Neutral
3		0.170	22.54	9.66	32.20	54.96	-22.76	Average	Neutral
4		0.170	37.94	9.66	47.60	64.96	-17.36	QP	Neutral
5		0.210	20.47	9.59	30.06	53.21	-23.15	Average	Neutral
6		0.210	34.42	9.59	44.01	63.21	-19.20	QP	Neutral
7		0.275	12.20	9.51	21.71	50.97	-29.26	Average	Neutral
8		0.275	25.32	9.51	34.83	60.97	-26.14	QP	Neutral
9	AV	0.565	17.91	9.77	27.68	46.00	-18.32	Average	Neutral
10		0.565	26.31	9.77	36.08	56.00	-19.92	QP	Neutral
11		8.915	16.76	9.86	26.62	50.00	-23.38	Average	Neutral
12		8.915	24.99	9.86	34.85	60.00	-25.15	QP	Neutral

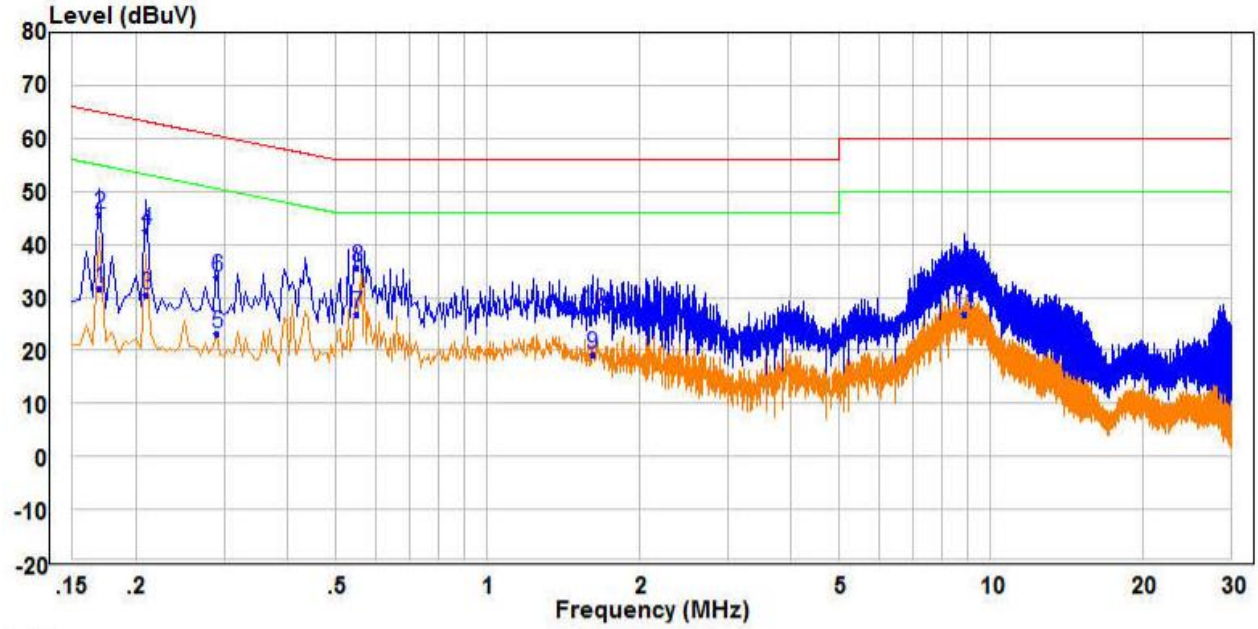
D185(XSE-1202000NUS):

Live Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.165	20.84	9.67	30.51	55.21	-24.70	Average	Line
2	PP	0.165	35.64	9.67	45.31	65.21	-19.90	QP	Line
3		0.205	17.30	9.61	26.91	53.41	-26.50	Average	Line
4		0.205	32.48	9.61	42.09	63.41	-21.32	QP	Line
5		0.220	16.46	9.58	26.04	52.82	-26.78	Average	Line
6		0.220	29.84	9.58	39.42	62.82	-23.40	QP	Line
7	AV	0.550	15.02	9.75	24.77	46.00	-21.23	Average	Line
8		0.550	22.66	9.75	32.41	56.00	-23.59	QP	Line
9		2.265	6.58	11.38	17.96	46.00	-28.04	Average	Line
10		2.265	18.28	11.38	29.66	56.00	-26.34	QP	Line
11		8.725	15.61	9.86	25.47	50.00	-24.53	Average	Line
12		8.725	25.54	9.86	35.40	60.00	-24.60	QP	Line

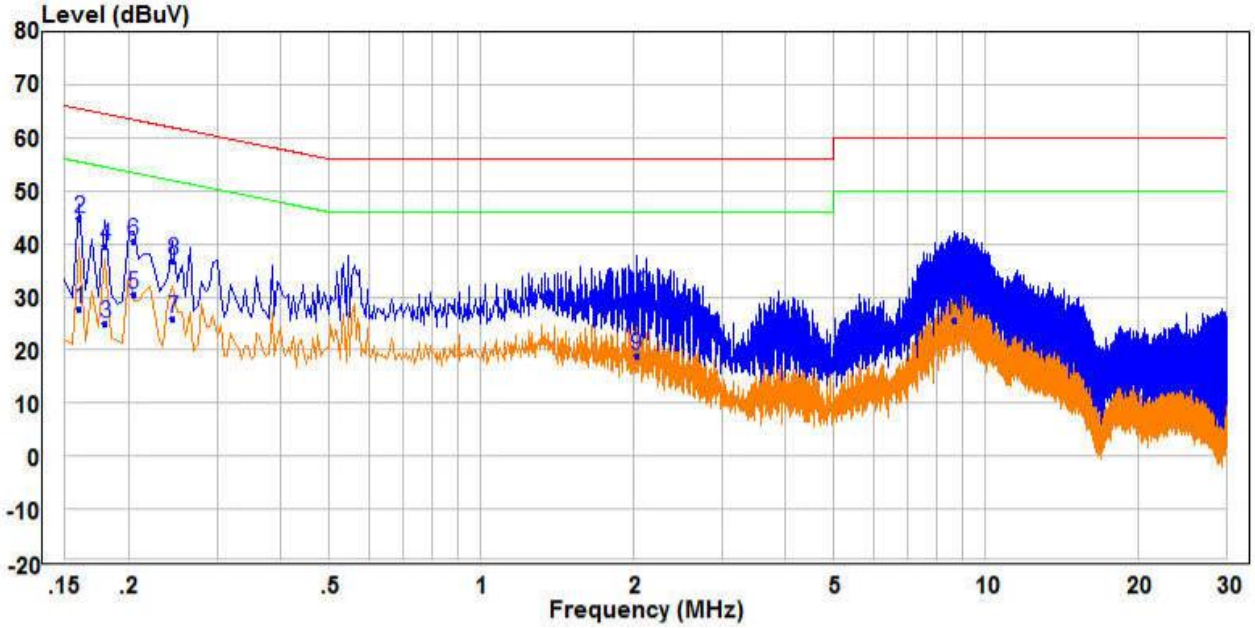
Neutral Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.170	22.05	9.66	31.71	54.96	-23.25	Average	Neutral
2	PP	0.170	36.05	9.66	45.71	64.96	-19.25	QP	Neutral
3		0.210	20.93	9.59	30.52	53.21	-22.69	Average	Neutral
4		0.210	32.92	9.59	42.51	63.21	-20.70	QP	Neutral
5		0.290	13.53	9.49	23.02	50.52	-27.50	Average	Neutral
6		0.290	24.37	9.49	33.86	60.52	-26.66	QP	Neutral
7	AV	0.550	16.95	9.75	26.70	46.00	-19.30	Average	Neutral
8		0.550	25.89	9.75	35.64	56.00	-20.36	QP	Neutral
9		1.620	9.53	9.73	19.26	46.00	-26.74	Average	Neutral
10		1.620	17.60	9.73	27.33	56.00	-28.67	QP	Neutral
11		8.840	16.82	9.86	26.68	50.00	-23.32	Average	Neutral
12		8.840	24.99	9.86	34.85	60.00	-25.15	QP	Neutral

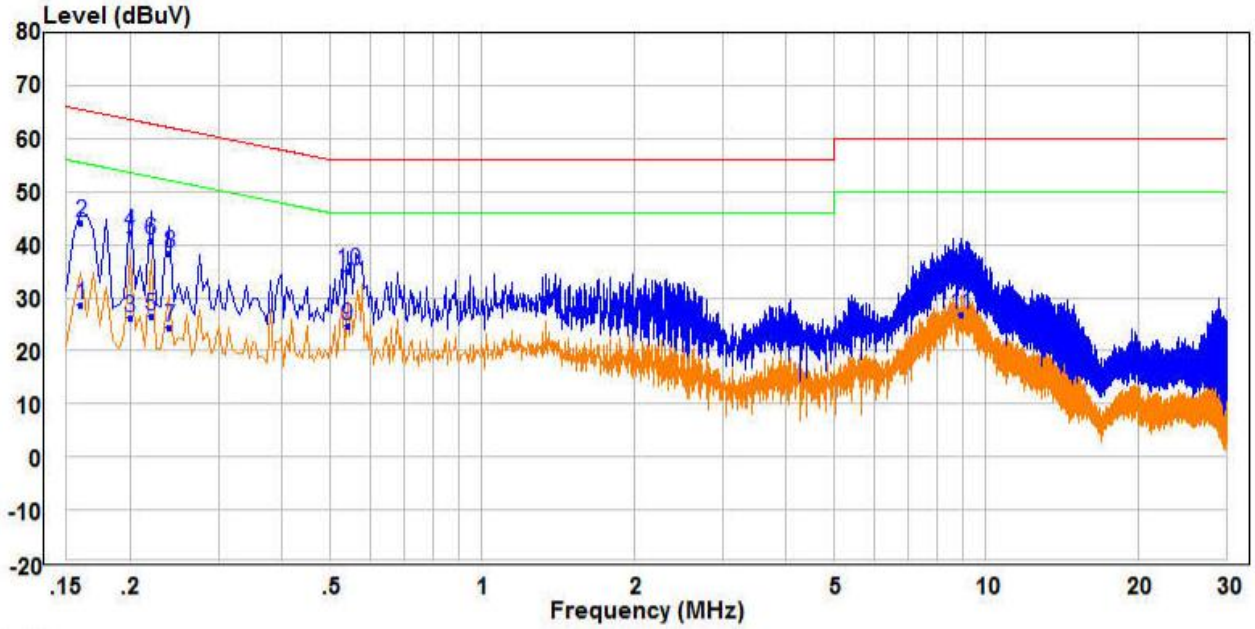
D210(XSE-1202000NUS):

Live Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.160	17.95	9.68	27.63	55.46	-27.83	Average	Line
2	PP	0.160	35.06	9.68	44.74	65.46	-20.72	QP	Line
3		0.180	15.37	9.64	25.01	54.49	-29.48	Average	Line
4		0.180	29.95	9.64	39.59	64.49	-24.90	QP	Line
5	AV	0.205	20.90	9.61	30.51	53.41	-22.90	Average	Line
6		0.205	30.96	9.61	40.57	63.41	-22.84	QP	Line
7		0.245	16.25	9.55	25.80	51.92	-26.12	Average	Line
8		0.245	27.26	9.55	36.81	61.92	-25.11	QP	Line
9		2.030	7.24	11.62	18.86	46.00	-27.14	Average	Line
10		2.030	18.93	11.62	30.55	56.00	-25.45	QP	Line
11		8.675	15.68	9.86	25.54	50.00	-24.46	Average	Line
12		8.675	25.89	9.86	35.75	60.00	-24.25	QP	Line

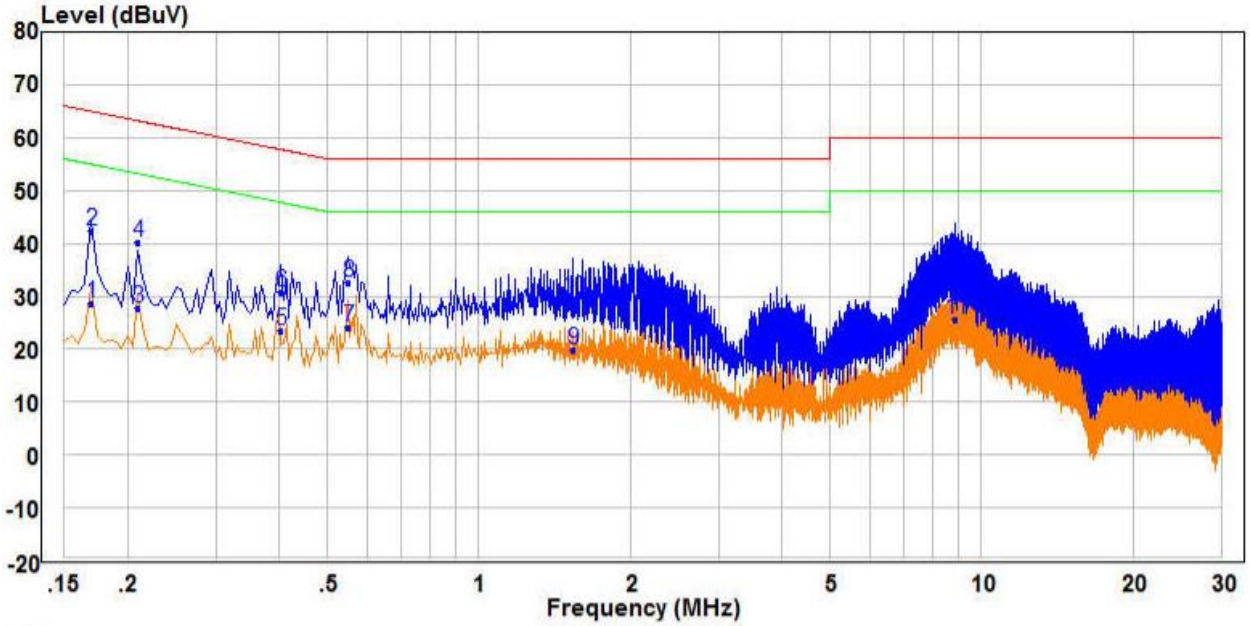
Neutral Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.160	18.94	9.68	28.62	55.46	-26.84	Average	Neutral
2		0.160	34.44	9.68	44.12	65.46	-21.34	QP	Neutral
3		0.200	16.56	9.61	26.17	53.61	-27.44	Average	Neutral
4		0.200	32.68	9.61	42.29	63.61	-21.32	QP	Neutral
5		0.220	16.83	9.58	26.41	52.82	-26.41	Average	Neutral
6		0.220	31.34	9.58	40.92	62.82	-21.90	QP	Neutral
7		0.240	14.79	9.55	24.34	52.10	-27.76	Average	Neutral
8		0.240	28.95	9.55	38.50	62.10	-23.60	QP	Neutral
9	AV	0.540	14.87	9.74	24.61	46.00	-21.39	Average	Neutral
10	PP	0.540	25.22	9.74	34.96	56.00	-21.04	QP	Neutral
11		8.925	16.92	9.86	26.78	50.00	-23.22	Average	Neutral
12		8.925	24.84	9.86	34.70	60.00	-25.30	QP	Neutral

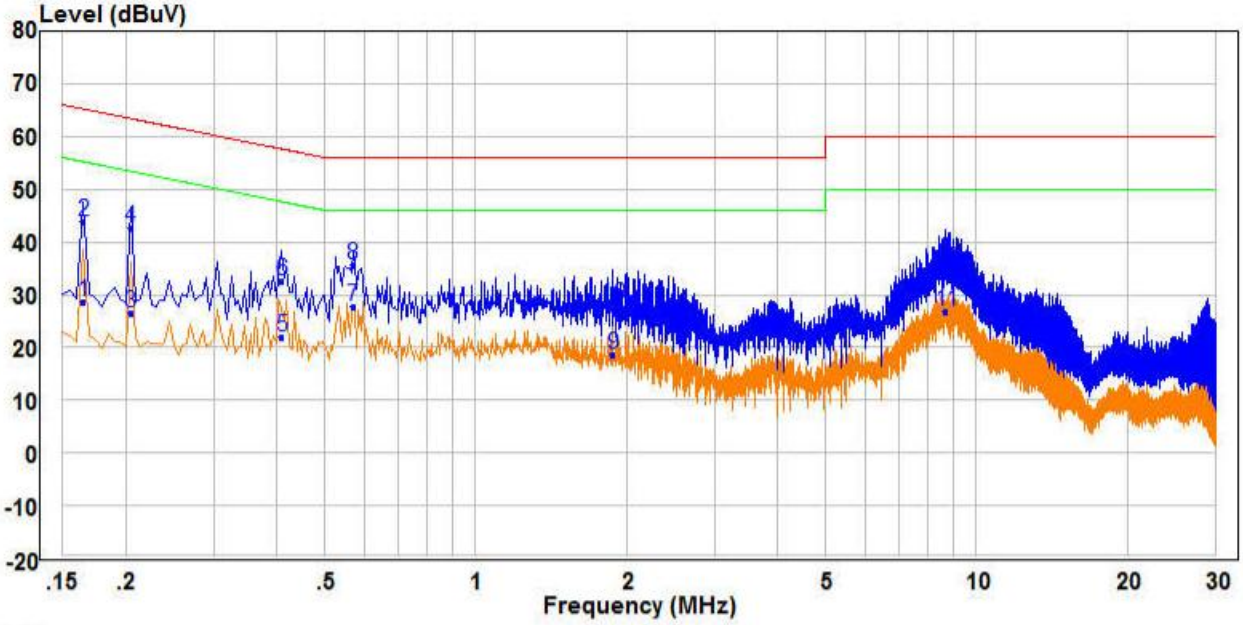
D210(GQ24-120200-CU):

Live Line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.170	19.07	9.66	28.73	54.96	-26.23	Average	Line
2	QP	0.170	32.81	9.66	42.47	64.96	-22.49	QP	Line
3		0.210	18.21	9.60	27.81	53.21	-25.40	Average	Line
4		0.210	30.69	9.60	40.29	63.21	-22.92	QP	Line
5		0.405	13.81	9.61	23.42	47.75	-24.33	Average	Line
6		0.405	21.03	9.61	30.64	57.75	-27.11	QP	Line
7	PP	0.550	14.27	9.75	24.02	46.00	-21.98	Average	Line
8		0.550	22.88	9.75	32.63	56.00	-23.37	QP	Line
9		1.540	9.00	10.91	19.91	46.00	-26.09	Average	Line
10		1.540	18.76	10.91	29.67	56.00	-26.33	QP	Line
11		8.890	15.71	9.86	25.57	50.00	-24.43	Average	Line
12		8.890	25.81	9.86	35.67	60.00	-24.33	QP	Line

Neutral Line:

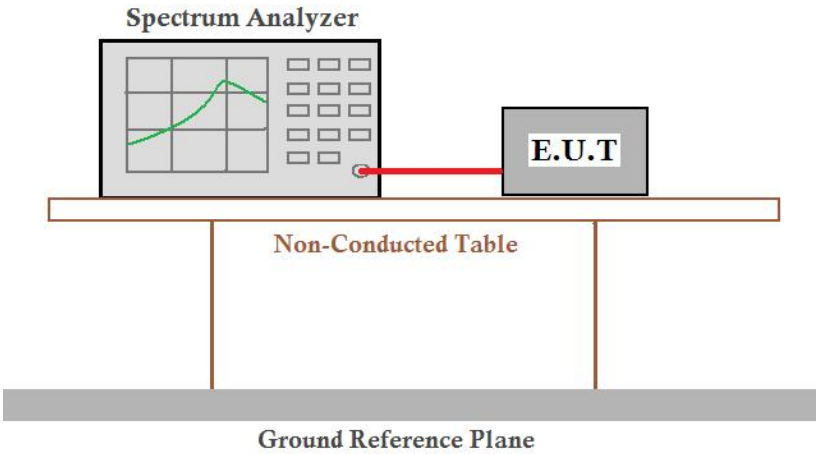


		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.165	18.89	9.67	28.56	55.21	-26.65	Average	Neutral
2		0.165	34.03	9.67	43.70	65.21	-21.51	QP	Neutral
3		0.205	16.79	9.60	26.39	53.41	-27.02	Average	Neutral
4		0.205	32.90	9.60	42.50	63.41	-20.91	QP	Neutral
5		0.410	12.42	9.61	22.03	47.65	-25.62	Average	Neutral
6		0.410	23.13	9.61	32.74	57.65	-24.91	QP	Neutral
7	PP	0.570	18.07	9.77	27.84	46.00	-18.16	Average	Neutral
8	QP	0.570	25.86	9.77	35.63	56.00	-20.37	QP	Neutral
9		1.880	8.96	9.74	18.70	46.00	-27.30	Average	Neutral
10		1.880	18.43	9.74	28.17	56.00	-27.83	QP	Neutral
11		8.690	16.82	9.86	26.68	50.00	-23.32	Average	Neutral
12		8.690	24.79	9.86	34.65	60.00	-25.35	QP	Neutral

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.

5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2013
Test Setup:	*Setup for Power meter measurement method* *Setup for Spectrum analyser measurement method* 
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Test Result

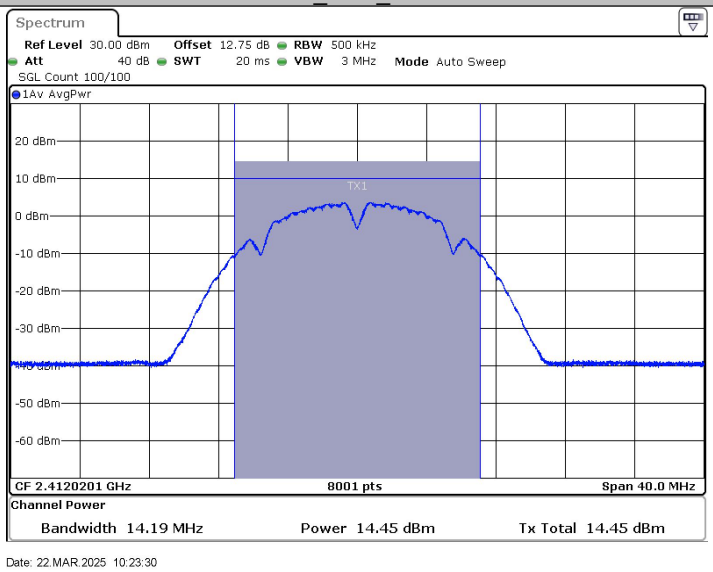
Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	14.45	≤30.00	PASS
	2437	14.08	≤30.00	PASS
	2462	15.03	≤30.00	PASS
11G	2412	14.08	≤30.00	PASS
	2437	13.71	≤30.00	PASS
	2462	14.66	≤30.00	PASS
11N20SISO	2412	13.93	≤30.00	PASS
	2437	13.57	≤30.00	PASS
	2462	13.60	≤30.00	PASS
11N40SISO	2422	13.61	≤30.00	PASS
	2437	13.41	≤30.00	PASS
	2452	13.35	≤30.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

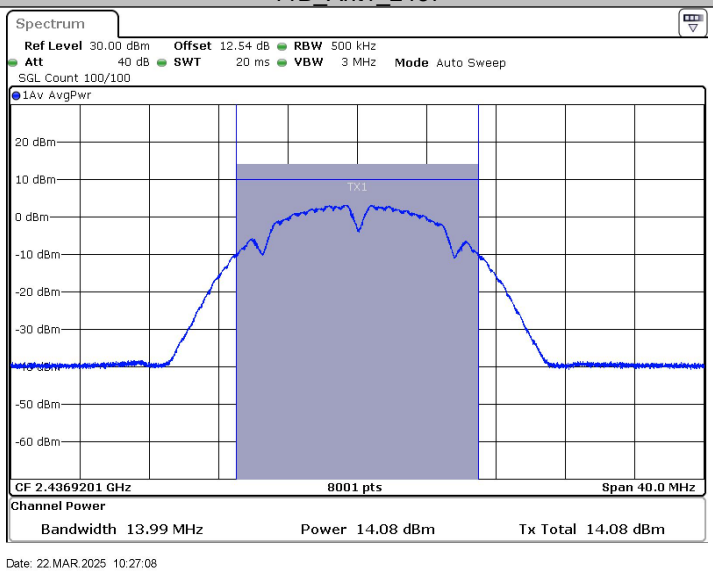
When Duty cycle >98%, D.C.F is not required.

Test Graphs

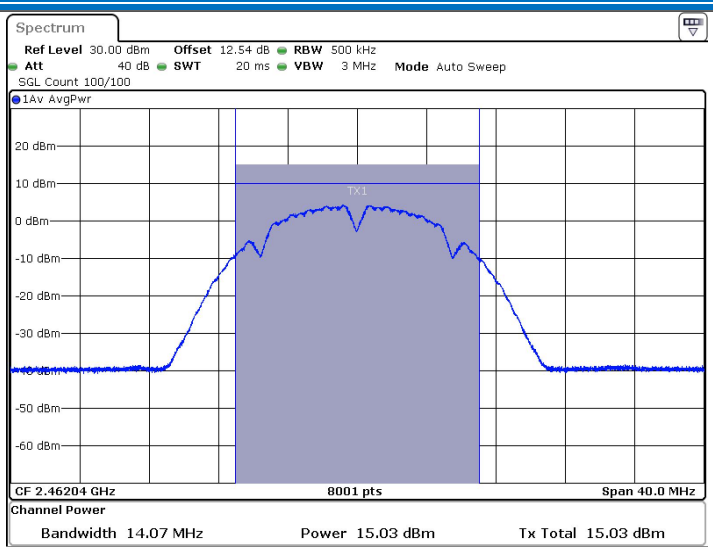
11B_Ant1_2412



11B_Ant1_2437

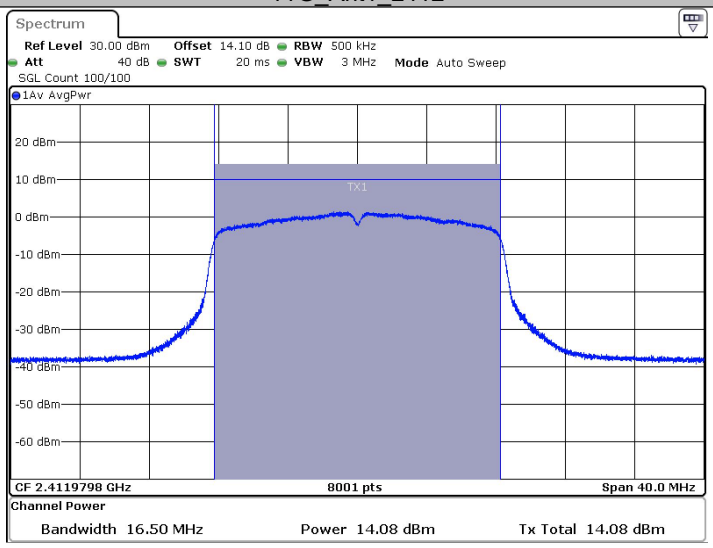


11B_Ant1_2462



Date: 22.MAR.2025 10:27:51

11G_Ant1_2412



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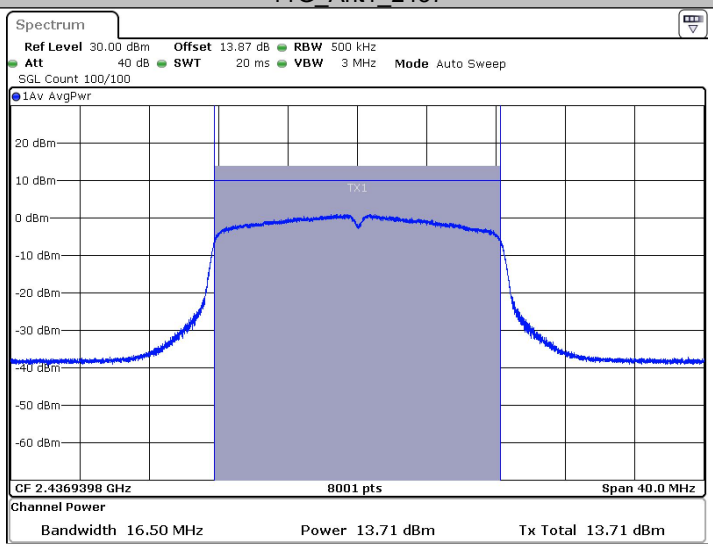
11G_Ant1_2437



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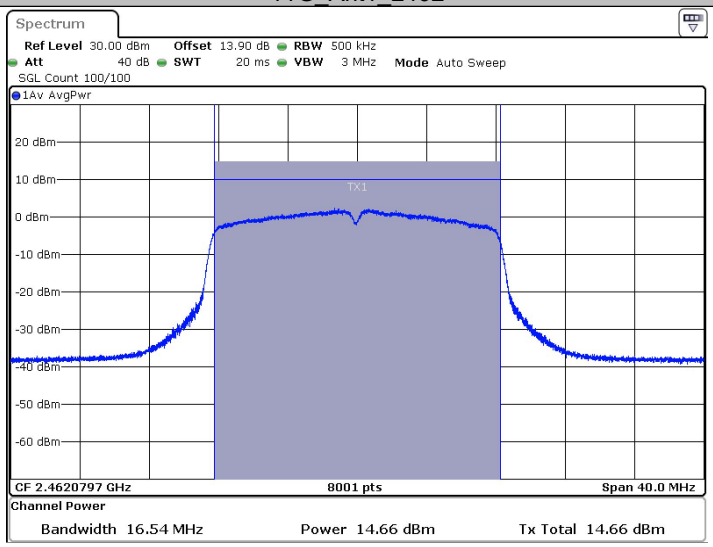
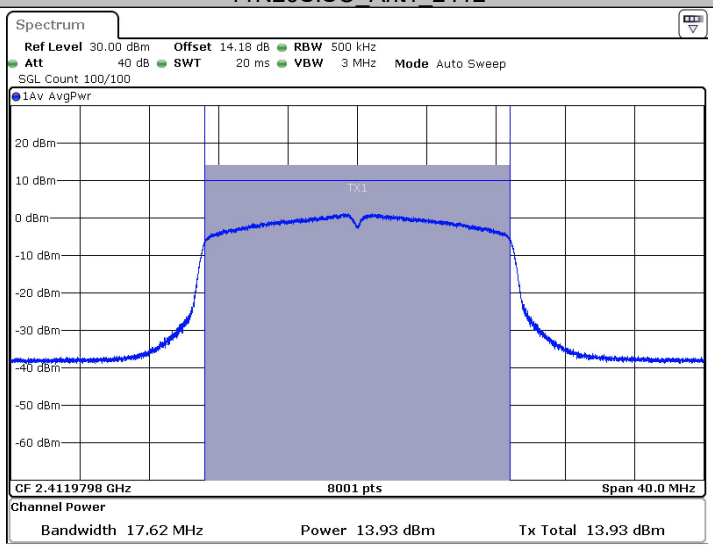
11G_Ant1_2462



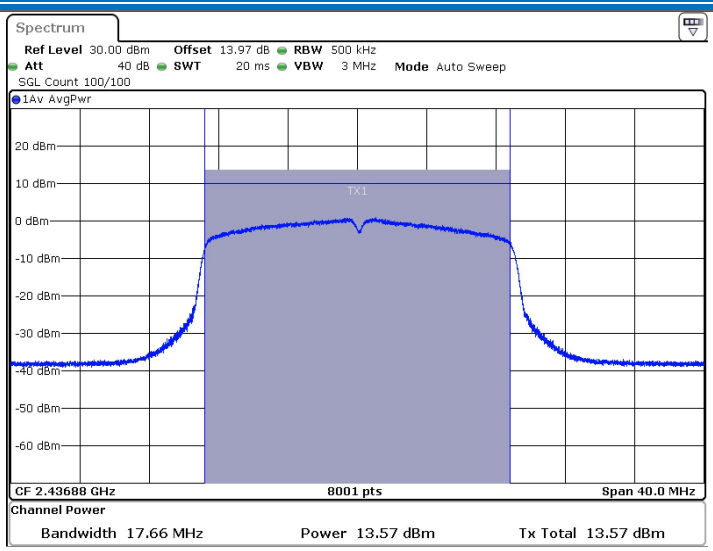
Date: 22.MAR.2025 10:32:12

11N20SISO_Ant1_2412



Date: 22.MAR.2025 10:33:17

11N20SISO_Ant1_2437



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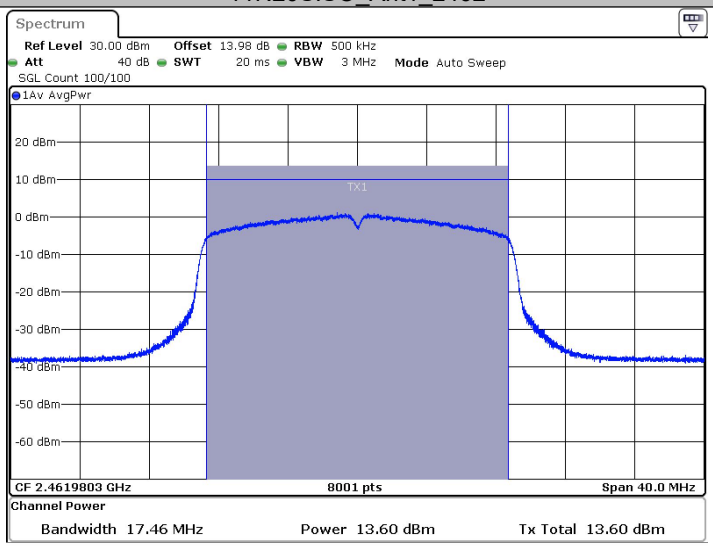
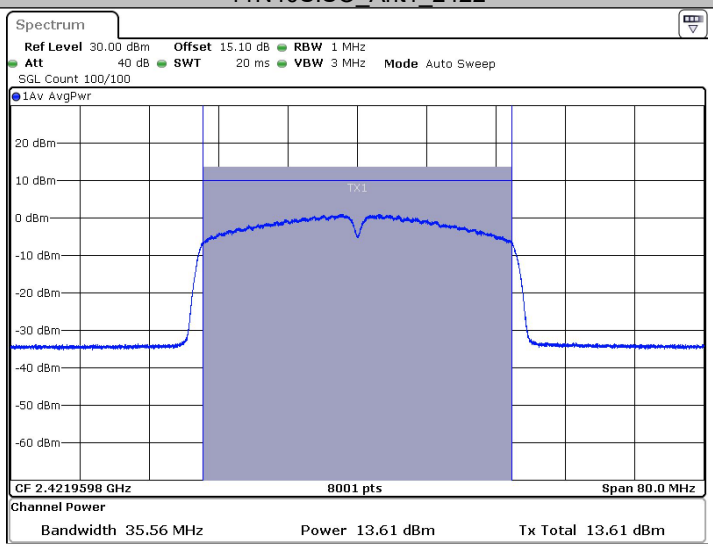
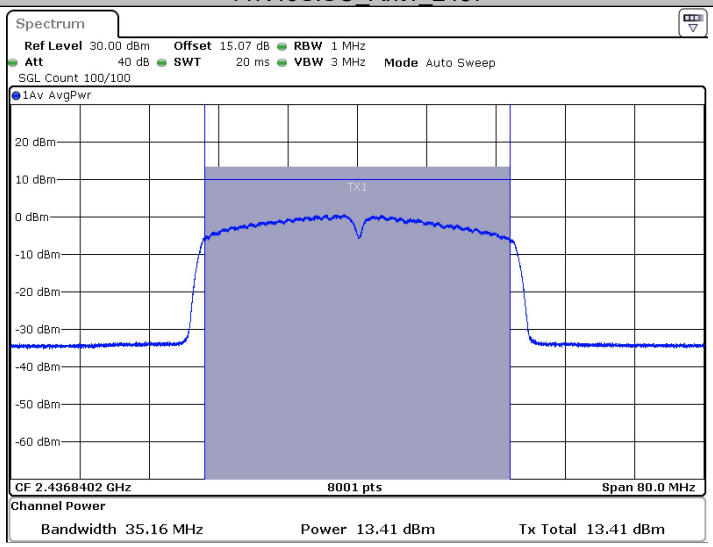


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



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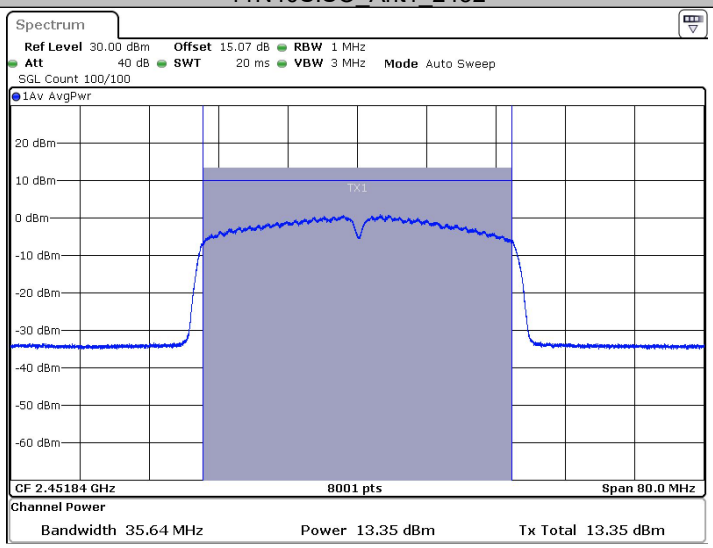
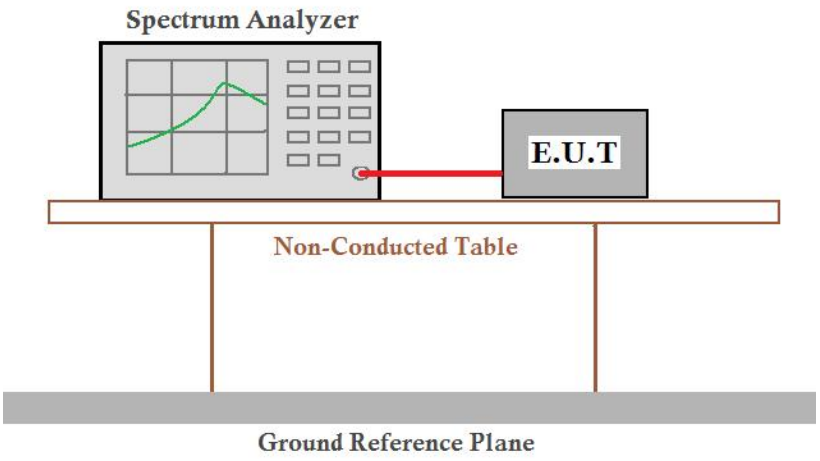
11N40SISO_Ant1_2452



Date: 22.MAR.2025 10:38:14

5.4 99% Occupied Bandwidth

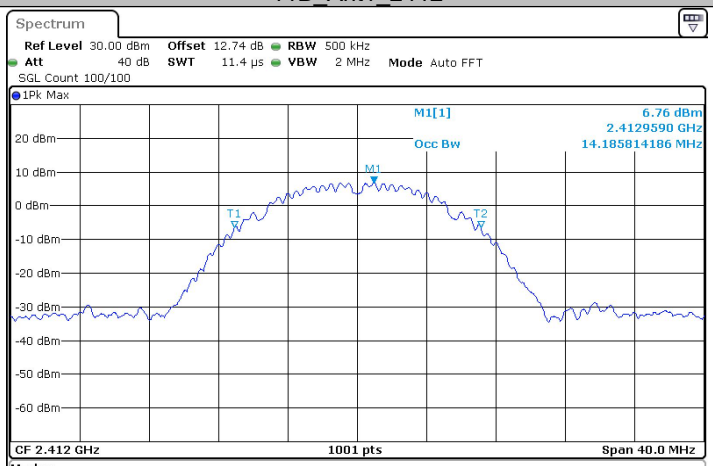
Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Test Result

TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	14.186	2404.9271	2419.1129
	2437	13.986	2429.9271	2443.9131
	2462	14.066	2455.0070	2469.0729
11G	2412	16.503	2403.7283	2420.2318
	2437	16.503	2428.6883	2445.1918
	2462	16.543	2453.8082	2470.3516
11N20SISO	2412	17.622	2403.1688	2420.7912
	2437	17.662	2428.0490	2445.7113
	2462	17.463	2453.2488	2470.7113
11N40SISO	2422	35.564	2404.1778	2439.7423
	2437	35.165	2419.2577	2454.4226
	2452	35.644	2434.0180	2469.6623

Test Graphs

11B_Ant1_2412

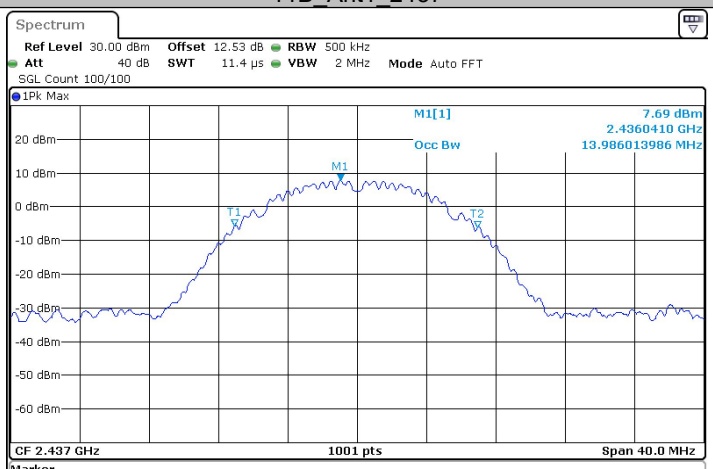


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.412959 GHz	6.76 dBm		
T1		1	2.4049271 GHz	-6.43 dBm	Occ Bw	14.185814186 MHz
T2		1	2.4191129 GHz	-6.42 dBm		

Date: 6.MAR.2025 10:04:50

11B_Ant1_2437

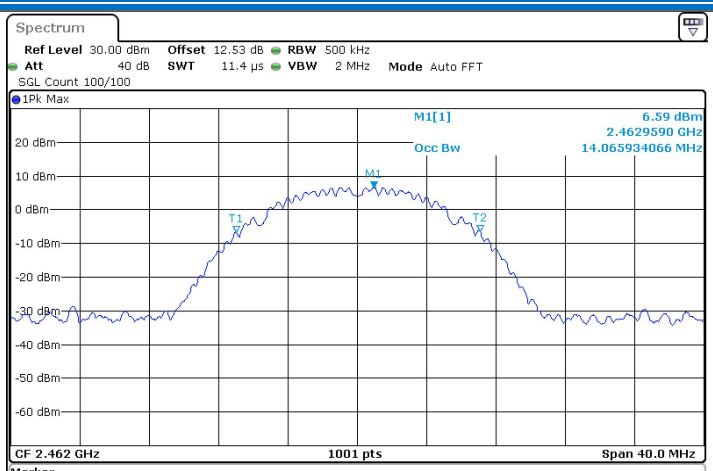


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.436041 GHz	7.69 dBm		
T1		1	2.4299271 GHz	-5.71 dBm	Occ Bw	13.986013986 MHz
T2		1	2.4439131 GHz	-6.27 dBm		

Date: 6.MAR.2025 10:06:14

11B_Ant1_2462

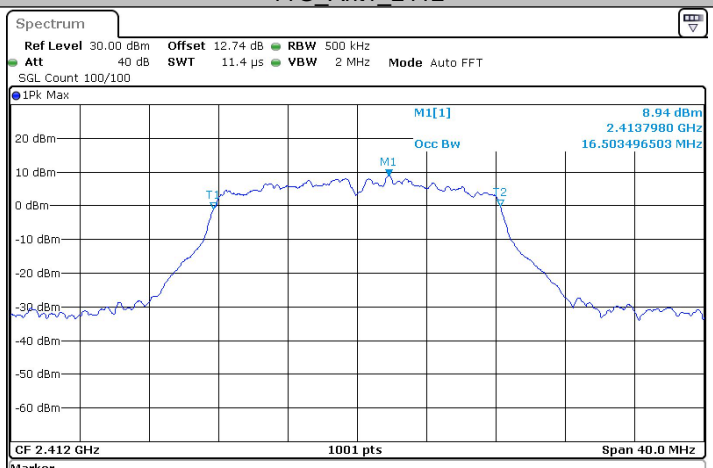


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.462959 GHz	6.59 dBm		
T1		1	2.455007 GHz	-6.78 dBm	Occ Bw	14.065934066 MHz
T2		1	2.4690729 GHz	-6.50 dBm		

Date: 6.MAR.2025 10:07:24

11G_Ant1_2412

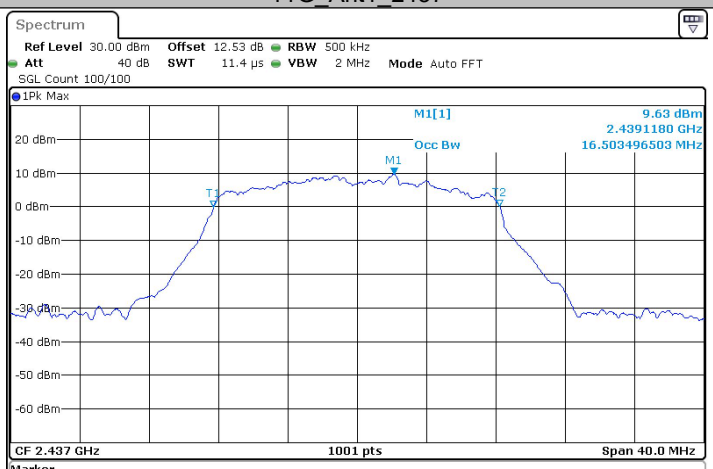


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.413798 GHz	8.94 dBm		
T1		1	2.4037283 GHz	-1.04 dBm	Occ Bw	16.503496503 MHz
T2		1	2.4202318 GHz	-0.09 dBm		

Date: 6.MAR.2025 10:12:10

11G_Ant1_2437

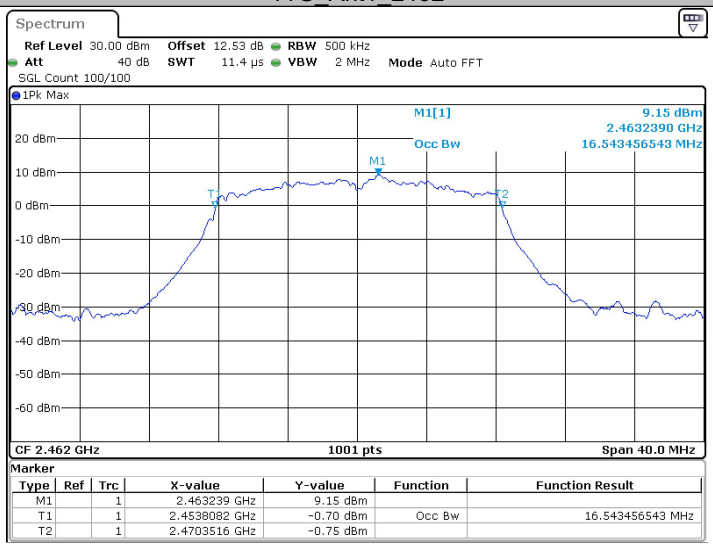


Marker

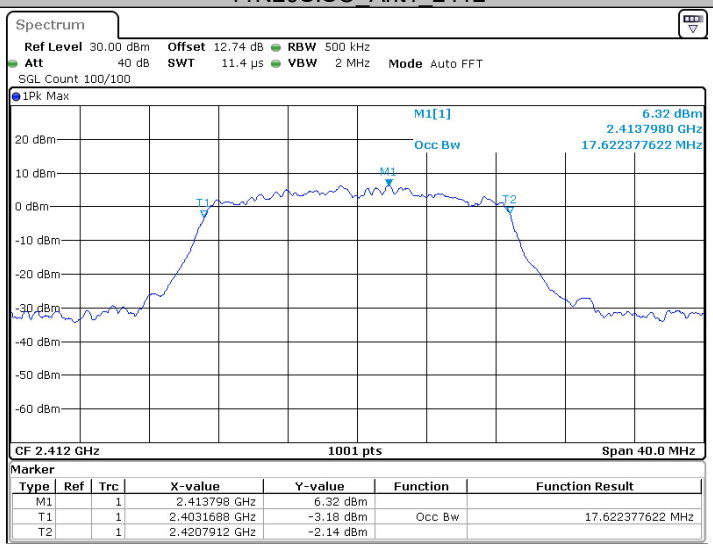
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.439118 GHz	9.63 dBm		
T1		1	2.4286883 GHz	-0.16 dBm	Occ Bw	16.503496503 MHz
T2		1	2.4451918 GHz	0.19 dBm		

Date: 6.MAR.2025 10:13:34

11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437