

TEST REPORT

Product Name: Surveillance camera
FCC ID: 2BPTR-ZDGBA
Trademark: N/A
Model Number: ZD-GB-A
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Sample Received Date: Jan. 16, 2025
Sample tested Date: Jan. 16, 2025 to Feb. 07, 2025
Issue Date: Feb. 07, 2025
Report No.: CTB25011601501RF01
Test Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

Compiled by:

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(NOTE: N/A MEANS NOT APPLICABLE)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB25011601501RF01	Feb. 07, 2025	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Band edge and RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)/15.205(a)	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/ KDB 558074 D05v02	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	/	PASS
RF Exposure Evaluation	47 CFR Part 15 Subpart C Section 15.247 (i)/1.1310/2.1091	KDB447498D01v06	PASS

Remark:

Test according to ANSI C63.10-2013.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	$U=\pm 54.3\text{Hz}$
Conducted output power Above 1G	$U=\pm 1.0\text{dB}$
Conducted output power below 1G	$U=\pm 0.9\text{dB}$
Power Spectral Density , Conduction	$U=\pm 1.0\text{dB}$
Conduction spurious emissions	$U=\pm 2.8\text{dB}$
Out of band emission	$U=\pm 54\text{Hz}$
3m camber Radiated spurious emission(9KHz-30MHz)	$U=\pm 4.8\text{dB}$
3m camber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
3m chamber Radiated spurious emission(18GHz-40GHz)	$U=\pm 3.4\text{dB}$
humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	ZD-GB-A
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11b/g/n
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi: IEEE 802.11b/g/n 20: 2412-2462MHz/ 11 channel IEEE 802.11n 40: 2422-2452MHz/ 7 channel
Max. RF output power:	WiFi (2.4G): 15.834dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: External antenna
Antenna Gain:	WiFi (2.4G): 4.38dBi
Ratings:	Input: AC110-240V 50/60Hz 0.3A Output: DC12V 2.0A

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Laptop	DELL	Vostro 5490	N/A	AE
2	Router	Huawei	AX2 Pro	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

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

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11b/g/n20)	2412MHz	2437MHz	2462MHz
Transmitting(802.11n40)	2422MHz	2437MHz	2452MHz

NOTE: Dutycycle>98%.

Test mode	Rate
802.11b	11M
802.11g	54M
802.11/n20	65M
802.11/n40	65M

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(AC):	120V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	50

The test software	WiFiTestTool_V1.1.0		
Frequency	2412MHz	2437MHz	2462MHz
IEEE 802.11b/g/n	POW= default		

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibration Last	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2024/6/29	2025/6/28
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2024/6/29	2025/6/28
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2024/6/29	2025/6/28
4	Communication test set	R&S	CMW500	108058	V3.5.80	2024/6/29	2025/6/28
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024/6/29	2025/6/28
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2024/6/29	2025/6/28
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2024/6/29	2025/6/28
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2024/6/29	2025/6/28
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2024/07/01	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2024/07/01	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2024/07/01	2025/6/30
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024/6/29	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2024/6/29	2025/6/28
15	234G Automatic test	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/

	software						
16	966 chamber	C.R.T.	966	/	/	2024/6/22	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2024/6/29	2025/6/28
18	Amplifier	HP	8447E	2945A02747	/	2024/6/29	2025/6/28
19	Amplifier	Agilent	8449B	3008A01838	/	2024/6/29	2025/6/28
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024/6/29	2025/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2024/6/29	2025/6/28
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2024/6/29	2025/6/28
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2024/6/29	2025/6/28
26	Amplifier	AEROFLEX	Aeroflex	097	/	2024/6/29	2025/6/28
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2024/6/29	2025/6/28
28	Temperature chamber	Shima	AR867	N/A	/	2024/6/29	2025/6/28

Continuous disturbance							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibration Last	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2024/6/22	2027/6/21
2	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	/	2024/07/1	2025/6/30
3	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	/	2024/6/29	2025/6/28
4	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428	V4.42.SP3	2024/07/01	2025/6/30
5	Coaxial cable	ZDECL	Z302S	18091904	/	2024/07/01	2025/6/30
6	ISN	Schwarzbeck	NTFM8158	183	/	2024/07/01	2025/6/30
7	Voltage sensor	Schwarzbeck	TK 9420	01189	/	2024/10/26	2025/10/25

8	EZ-EMC	Frad	EMC-con3A1.1	/	/	/	/
9	Current Probe	FCC	F-52B	199453	/	2024/5/28	2025/5/27
10	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2024/6/29	2025/6/28
11	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2024/6/29	2025/6/28

Radiated emission(No.1 Chamber)							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibratin Last	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2024/6/22	2027/6/21
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2024/7/07	2025/7/06
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024/6/30	2025/6/29
4	Amplifier	Agilent	8449B	3008A01838	/	2024/07/01	2025/6/30
5	Amplifier	HP	8447E	2945A02747	/	2024/6/29	2025/6/28
6	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2024/6/30	2025/6/29
7	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2024/6/28	2025/6/28
8	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024/6/29	2025/6/28
9	Coaxial cable	ETS	RFC-SNS-100-NMS-80	/	/	2024/6/29	2025/6/28
10	Coaxial cable	ETS	RFC-SN-100-NMS-20	/	/	2024/6/29	2025/6/28
11	Coaxial cable	ETS	RFC-SNS-100-SMS-20	/	/	2024/6/29	2025/6/28
12	Coaxial cable	ETS	RFC-NNS-100-NMS-300	/	/	2024/6/29	2025/6/28
13	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/	/
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2024/6/29	2025/6/28
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2024/6/29	2025/6/28

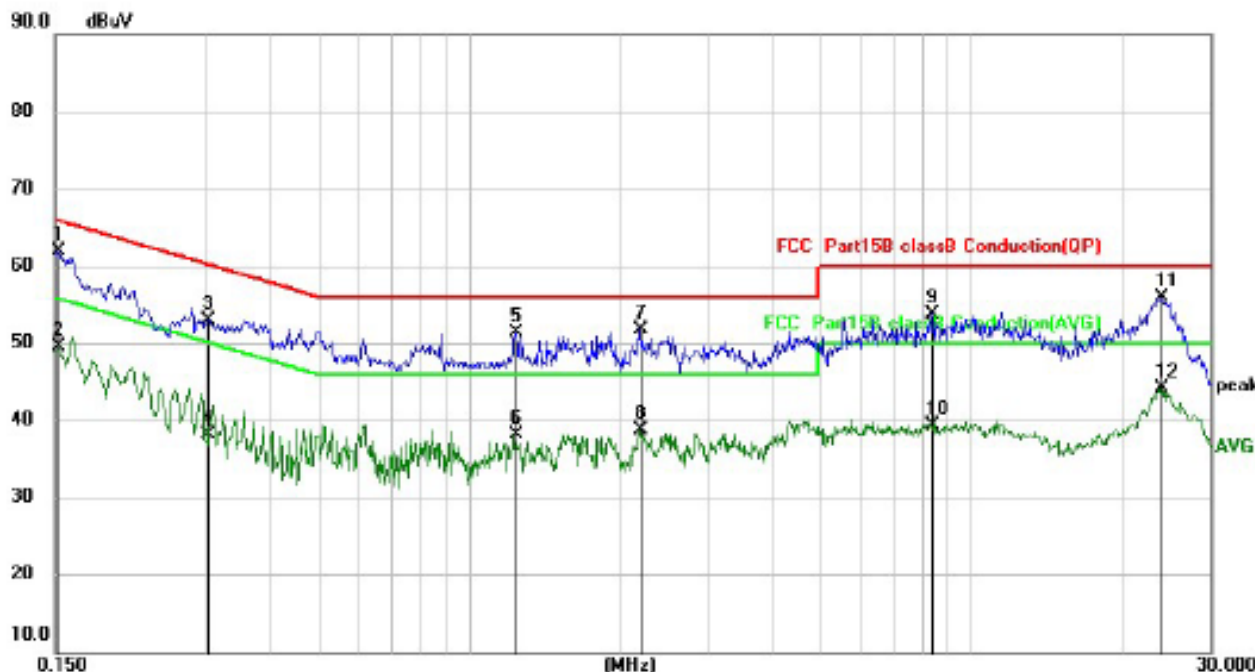
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.

6.4 Test Result

Test Specification: Line

AC 120V 60Hz

the worst: 802.11b (low channel)

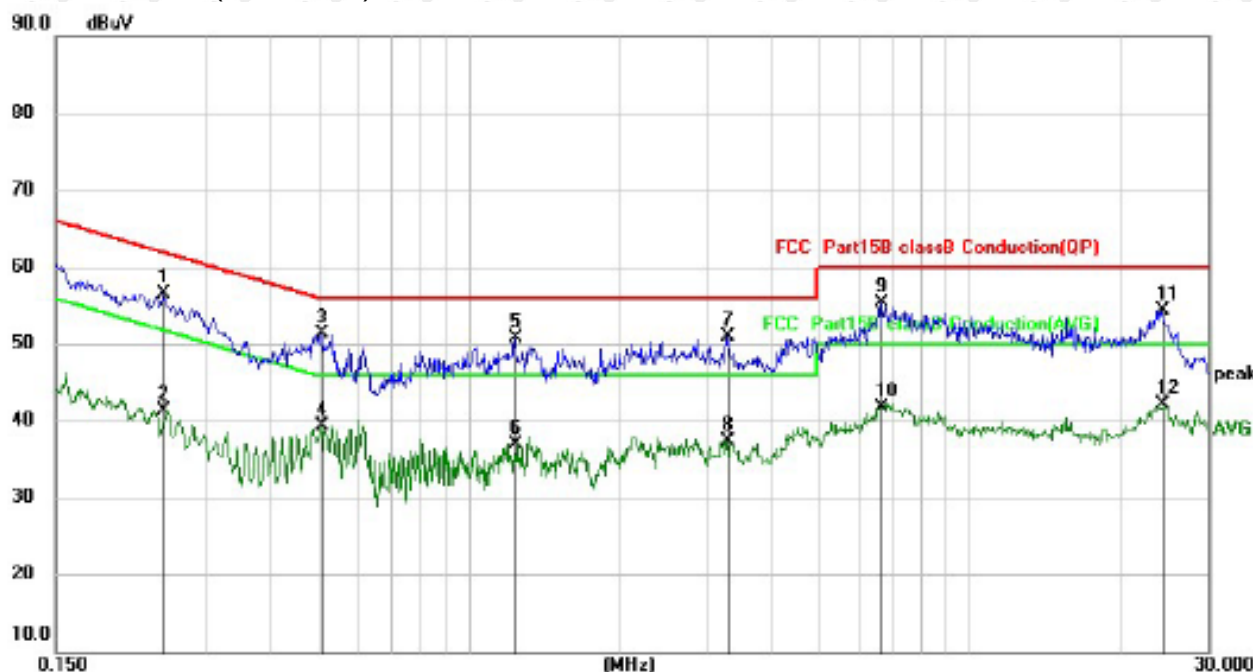


No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector
1	*	0.1524	51.06	10.88	61.94	65.87	-3.93	QP
2		0.1524	38.59	10.88	49.47	55.87	-6.40	AVG
3		0.3003	42.22	10.64	52.86	60.23	-7.37	QP
4		0.3003	27.40	10.64	38.04	50.23	-12.19	AVG
5		1.2419	40.26	11.10	51.36	56.00	-4.64	QP
6		1.2419	26.91	11.10	38.01	46.00	-7.99	AVG
7		2.1979	40.15	11.62	51.77	56.00	-4.23	QP
8		2.1979	27.11	11.62	38.73	46.00	-7.27	AVG
9		8.3300	40.67	13.07	53.74	60.00	-6.26	QP
10		8.3300	26.24	13.07	39.31	50.00	-10.69	AVG
11		23.9817	42.06	13.93	55.99	60.00	-4.01	QP
12		23.9817	30.20	13.93	44.13	50.00	-5.87	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

Test Specification: Neutral
AC 120V 60Hz
the worst: 802.11b (low channel)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2459	45.77	10.68	56.45	61.89	-5.44	QP
2		0.2459	30.53	10.68	41.21	51.89	-10.68	AVG
3	*	0.5100	40.75	10.51	51.26	56.00	-4.74	QP
4		0.5100	28.89	10.51	39.40	46.00	-6.60	AVG
5		1.2379	39.52	11.10	50.62	56.00	-5.38	QP
6		1.2379	25.81	11.10	36.91	46.00	-9.09	AVG
7		3.2860	39.05	11.86	50.91	56.00	-5.09	QP
8		3.2860	25.40	11.86	37.26	46.00	-8.74	AVG
9		6.6300	42.41	12.81	55.22	60.00	-4.78	QP
10		6.6300	28.96	12.81	41.77	50.00	-8.23	AVG
11		24.1858	40.45	13.95	54.40	60.00	-5.60	QP
12		24.1858	28.23	13.95	42.18	50.00	-7.82	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

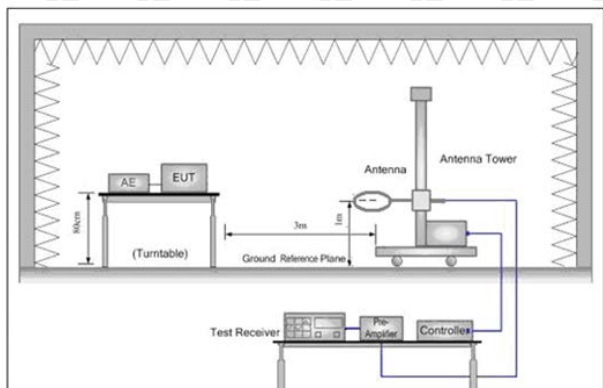


Figure 1. Below 30MHz

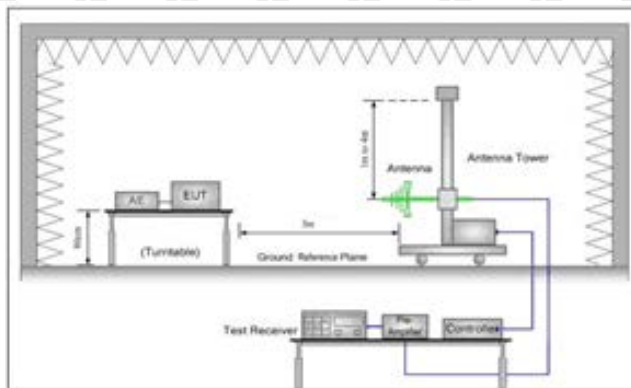


Figure 2. 30MHz to 1GHz

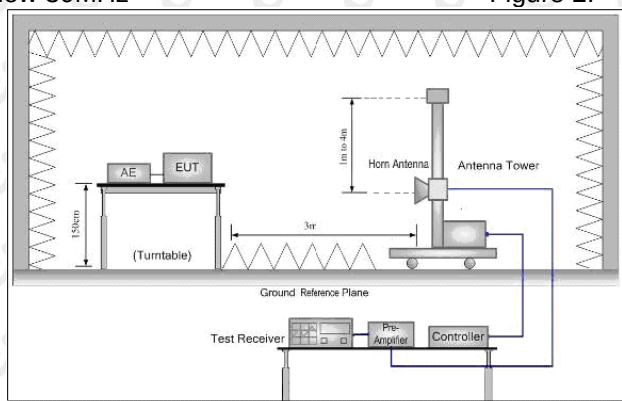


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

7.3 Test procedure

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

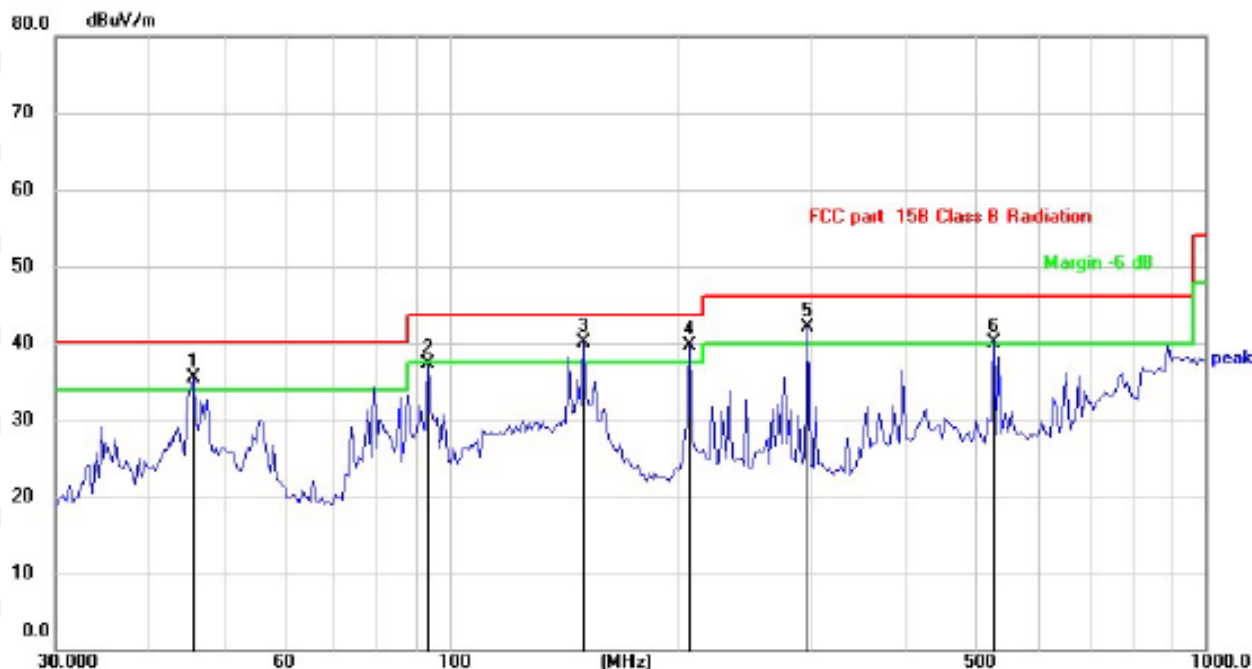
- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. Repeat above procedures until all frequencies measured was complete.

Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

7.4 Test Result

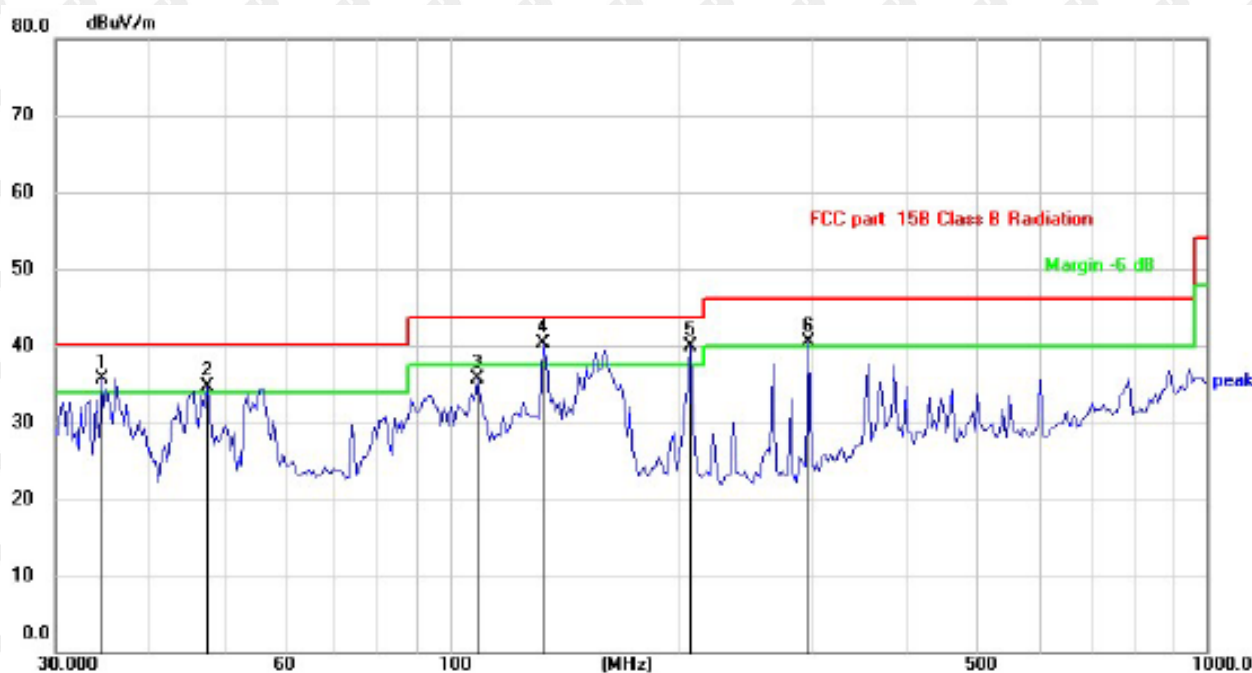
Below 1GHz Test Results:
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	45.6947	42.26	-6.74	35.52	40.00	-4.48	QP
2		93.7684	47.27	-9.96	37.31	43.50	-6.19	QP
3	*	150.5377	42.76	-2.75	40.01	43.50	-3.49	QP
4	!	208.2148	44.30	-4.65	39.65	43.50	-3.85	QP
5	!	298.2681	45.11	-2.93	42.18	46.00	-3.82	QP
6	!	527.3204	37.67	2.53	40.20	46.00	-5.80	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Antenna polarity: V



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	34.5172	42.34	-6.54	35.80	40.00	-4.20	QP
2	!	47.7421	41.35	-6.68	34.67	40.00	-5.33	QP
3		108.8375	43.15	-7.44	35.71	43.50	-7.79	QP
4	*	133.1510	45.43	-5.04	40.39	43.50	-3.11	QP
5	!	208.2147	44.55	-4.65	39.90	43.50	-3.60	QP
6	!	298.2681	43.41	-2.93	40.48	46.00	-5.52	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

1. The margin of 9K-30MH measurement exceeds 20dB, so the test chart is not included. Test Mode: 802.11b low channel (the worst)
2. All modes have been tested, and the test results show that b-mode data is the worst, only b-mode test chart is put. Test Mode: 802.11b low channel (the worst)
3. After pre-scanning three directions, the report recorded the worst case Test Mode: 802.11b low channel (the worst)

Above 1 GHz Test Results:

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	65.19	-3.64	61.55	74	-12.45	peak
4824	48.86	-3.64	45.22	54	-8.78	AVG
7236	57.89	-0.95	56.94	74	-17.06	peak
7236	45.38	-0.95	44.43	54	-9.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	64.96	-3.64	61.32	74	-12.68	peak
4824	49.62	-3.64	45.98	54	-8.02	AVG
7236	56.58	-0.95	55.63	74	-18.37	peak
7236	42.96	-0.95	42.01	54	-11.99	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	66.29	-3.51	62.78	74	-11.22	peak
4874	50.22	-3.51	46.71	54	-7.29	AVG
7311	59.89	-0.82	59.07	74	-14.93	peak
7311	43.34	-0.82	42.52	54	-11.48	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	63.04	-3.51	59.53	74	-14.47	peak
4874	49.13	-3.51	45.62	54	-8.38	AVG
7311	57.59	-0.82	56.77	74	-17.23	peak
7311	44.03	-0.82	43.21	54	-10.79	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	63.43	-3.43	60.00	74	-14.00	peak
4924	46.41	-3.43	42.98	54	-11.02	AVG
7386	59.21	-0.75	58.46	74	-15.54	peak
7386	44.39	-0.75	43.64	54	-10.36	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.92	-3.43	59.49	74	-14.51	peak
4924	47.55	-3.43	44.12	54	-9.88	AVG
7386	58.04	-0.75	57.29	74	-16.71	peak
7386	42.66	-0.75	41.91	54	-12.09	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	65.03	-3.64	61.39	74	-12.61	peak
4824	49.27	-3.64	45.63	54	-8.37	AVG
7236	59.33	-0.95	58.38	74	-15.62	peak
7236	46.71	-0.95	45.76	54	-8.24	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	62.68	-3.64	59.04	74	-14.96	peak
4824	48.11	-3.64	44.47	54	-9.53	AVG
7236	57.88	-0.95	56.93	74	-17.07	peak
7236	43.85	-0.95	42.90	54	-11.10	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	65.36	-3.51	61.85	74	-12.15	peak
4874	47.98	-3.51	44.47	54	-9.53	AVG
7311	58.33	-0.82	57.51	74	-16.49	peak
7311	44.50	-0.82	43.68	54	-10.32	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	63.62	-3.51	60.11	74	-13.89	peak
4874	46.84	-3.51	43.33	54	-10.67	AVG
7311	57.30	-0.82	56.48	74	-17.52	peak
7311	42.21	-0.82	41.39	54	-12.61	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	64.46	-3.43	61.03	74	-12.97	peak
4924	47.65	-3.43	44.22	54	-9.78	AVG
7386	56.65	-0.75	55.90	74	-18.10	peak
7386	43.87	-0.75	43.12	54	-10.88	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	61.92	-3.43	58.49	74	-15.51	peak
4924	46.60	-3.43	43.17	54	-10.83	AVG
7386	57.63	-0.75	56.88	74	-17.12	peak
7386	42.57	-0.75	41.82	54	-12.18	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	63.62	-3.64	59.98	74	-14.02	peak
4824	46.67	-3.64	43.03	54	-10.97	AVG
7236	58.10	-0.95	57.15	74	-16.85	peak
7236	42.69	-0.95	41.74	54	-12.26	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	66.31	-3.64	62.67	74	-11.33	peak
4824	50.31	-3.64	46.67	54	-7.33	AVG
7236	56.47	-0.95	55.52	74	-18.48	peak
7236	43.84	-0.95	42.89	54	-11.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	62.67	-3.51	59.16	74.00	-14.84	peak
4874.00	46.94	-3.51	43.43	54.00	-10.57	AVG
7311.00	58.95	-0.82	58.13	74.00	-15.87	peak
7311.00	42.97	-0.82	42.15	54.00	-11.85	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	62.07	-3.51	58.56	74.00	-15.44	peak
4874.00	46.49	-3.51	42.98	54.00	-11.02	AVG
7311.00	56.94	-0.82	56.12	74.00	-17.88	peak
7311.00	42.52	-0.82	41.70	54.00	-12.30	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	62.65	-3.43	59.22	74	-14.78	peak
4924	48.30	-3.43	44.87	54	-9.13	AVG
7386	58.15	-0.75	57.40	74	-16.60	peak
7386	42.92	-0.75	42.17	54	-11.83	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.32	-3.43	59.89	74	-14.11	peak
4924	45.98	-3.43	42.55	54	-11.45	AVG
7386	55.82	-0.75	55.07	74	-18.93	peak
7386	41.70	-0.75	40.95	54	-13.05	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	65.55	-3.63	61.92	74	-12.08	peak
4844	48.76	-3.63	45.13	54	-8.87	AVG
7266	57.51	-0.94	56.57	74	-17.43	peak
7266	44.65	-0.94	43.71	54	-10.29	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	65.58	-3.63	61.95	74	-12.05	peak
4844	48.64	-3.63	45.01	54	-8.99	AVG
7266	59.39	-0.94	58.45	74	-15.55	peak
7266	44.98	-0.94	44.04	54	-9.96	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	64.82	-3.51	61.31	74	-12.69	peak
4874	49.46	-3.51	45.95	54	-8.05	AVG
7311	59.42	-0.82	58.60	74	-15.40	peak
7311	46.56	-0.82	45.74	54	-8.26	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	62.32	-3.51	58.81	74	-15.19	peak
4874	46.52	-3.51	43.01	54	-10.99	AVG
7311	56.64	-0.82	55.82	74	-18.18	peak
7311	43.38	-0.82	42.56	54	-11.44	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	62.42	-3.43	58.99	74	-15.01	peak
4904	47.16	-3.43	43.73	54	-10.27	AVG
7356	58.11	-0.75	57.36	74	-16.64	peak
7356	41.51	-0.75	40.76	54	-13.24	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	62.52	-3.43	59.09	74	-14.91	peak
4904	47.39	-3.43	43.96	54	-10.04	AVG
7356	57.34	-0.75	56.59	74	-17.41	peak
7356	43.28	-0.75	42.53	54	-11.47	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Remark :

(1) Measuring frequencies from 1 GHz to the 25 GHz .

(2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(3) Data of measurement within this frequency range shown “--- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(4) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed

(5)Have tested in three orientations for radiated emissions, Only The worst record is in this report

Restricted bands around fundamental frequency (Radiated)

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	56.86	-5.81	51.05	74	-22.95	
2390	/	-5.81	/	54	/	AVG
2399	64.46	-5.84	58.62	74	-15.38	peak
2399	49.47	-5.84	43.63	54	-10.37	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	57.62	-5.81	51.81	74	-22.19	
2390	/	-5.81	/	54	/	AVG
2399	62.61	-5.84	56.77	74	-17.23	peak
2399	46.92	-5.84	41.08	54	-12.92	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.01	-5.65	50.36	74	-23.64	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.77	-5.65	50.12	74	-23.88	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	59.26	-5.81	53.45	74	-20.55	peak
2390	/	-5.81	/	54	/	AVG
2399	61.55	-5.84	55.71	74	-18.29	peak
2399	46.11	-5.84	40.27	54	-13.73	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	55.87	-5.81	50.06	74	-23.94	peak
2390	/	-5.81	/	54	/	AVG
2399	62.27	-5.84	56.43	74	-17.57	peak
2399	46.34	-5.84	40.50	54	-13.50	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	57.60	-5.65	51.95	74	-22.05	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	57.32	-5.65	51.67	74	-22.33	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	56.55	-5.81	50.74	74	-23.26	peak
2390	/	-5.81	/	54	/	AVG
2399	63.21	-5.84	57.37	74	-16.63	peak
2399	48.71	-5.84	42.87	54	-11.13	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	56.60	-5.81	50.79	74	-23.21	peak
2390	/	-5.81	/	54	/	AVG
2399	60.58	-5.84	54.74	74	-19.26	peak
2399	46.35	-5.84	40.51	54	-13.49	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.00	-5.65	50.35	74	-23.65	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.81	-5.65	50.16	74	-23.84	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	59.24	-5.81	53.43	74	-20.57	peak
2390	/	-5.81	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	57.83	-5.81	52.02	74	-21.98	peak
2390	/	-5.81	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	57.28	-5.65	51.63	74	-22.37	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

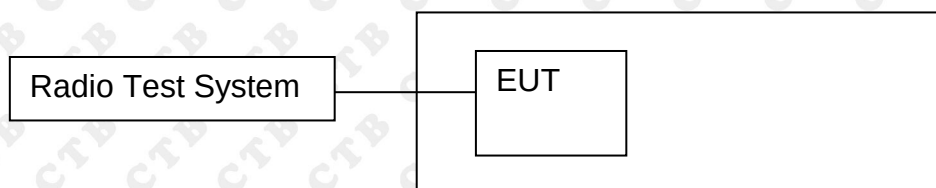
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.28	-5.65	50.63	74	-23.37	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS

8.1 Block Diagram Of Test Setup



8.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.3 Test procedure

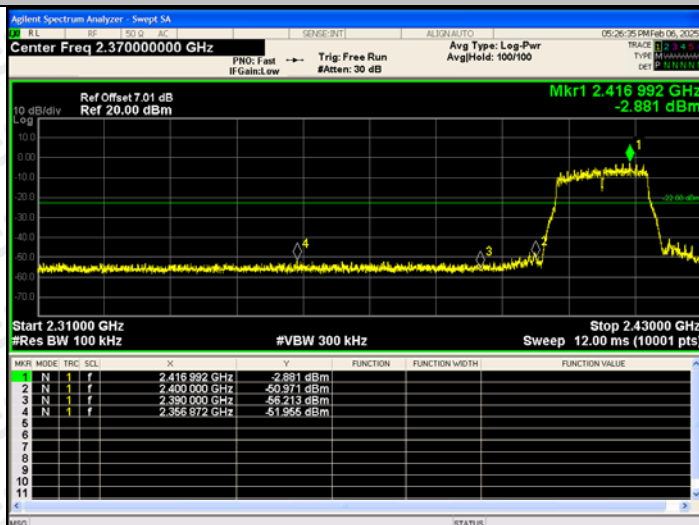
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 Below 30MHz:
 RBW = 100kHz, VBW = 300kHz, Sweep = auto
 Detector function = peak, Trace = max hold
 Above 30MHz:
 RBW = 100KHz, VBW = 300KHz, Sweep = auto
 Detector function = peak, Trace = max hold

8.4 Test Result

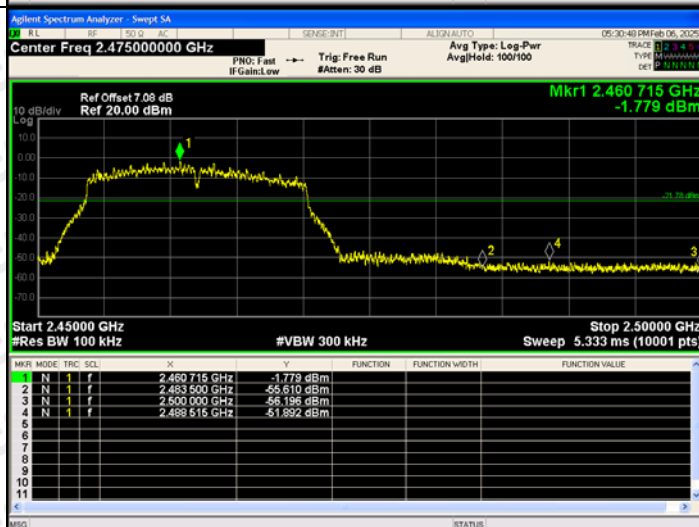


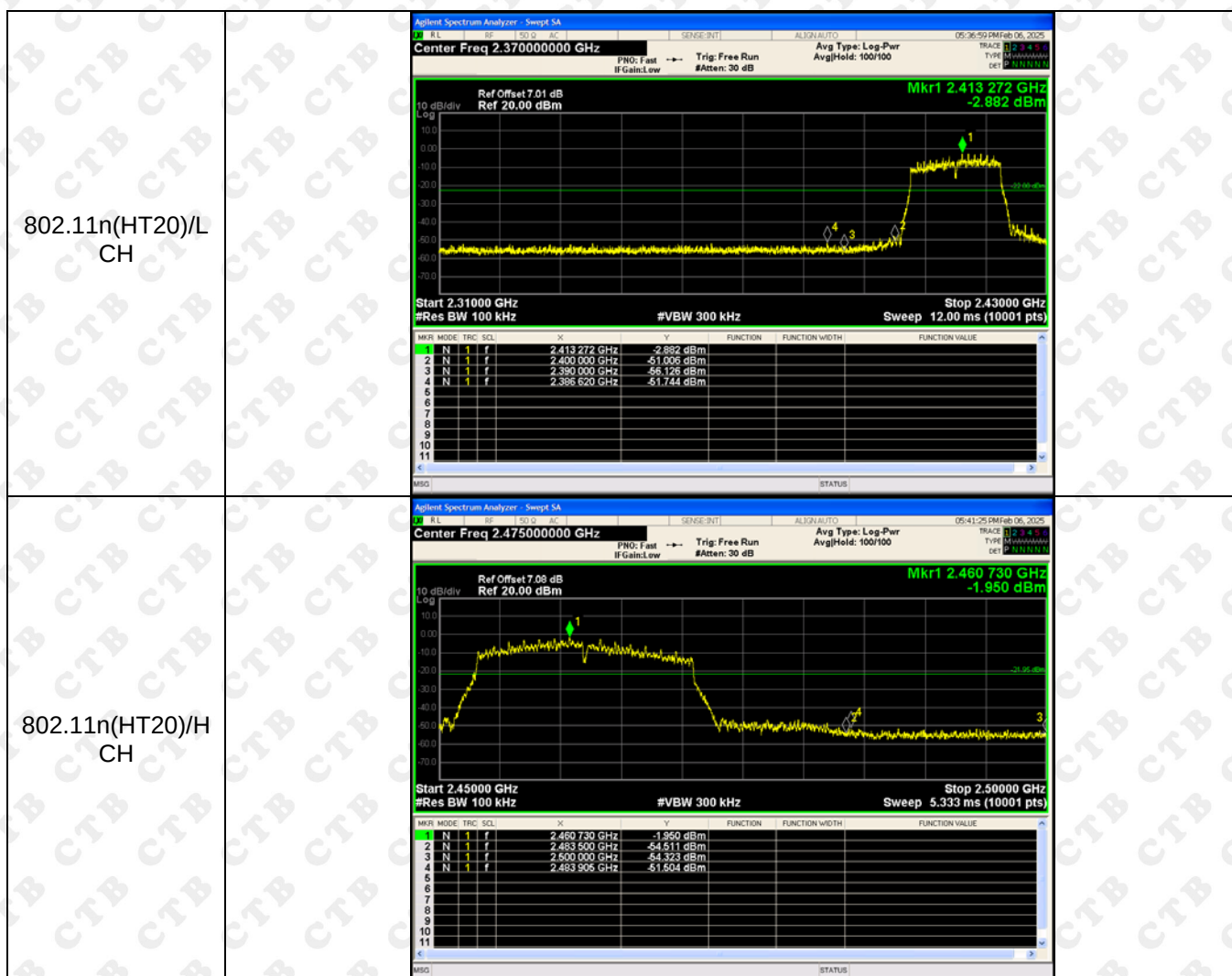
BAND EDGE Graphs

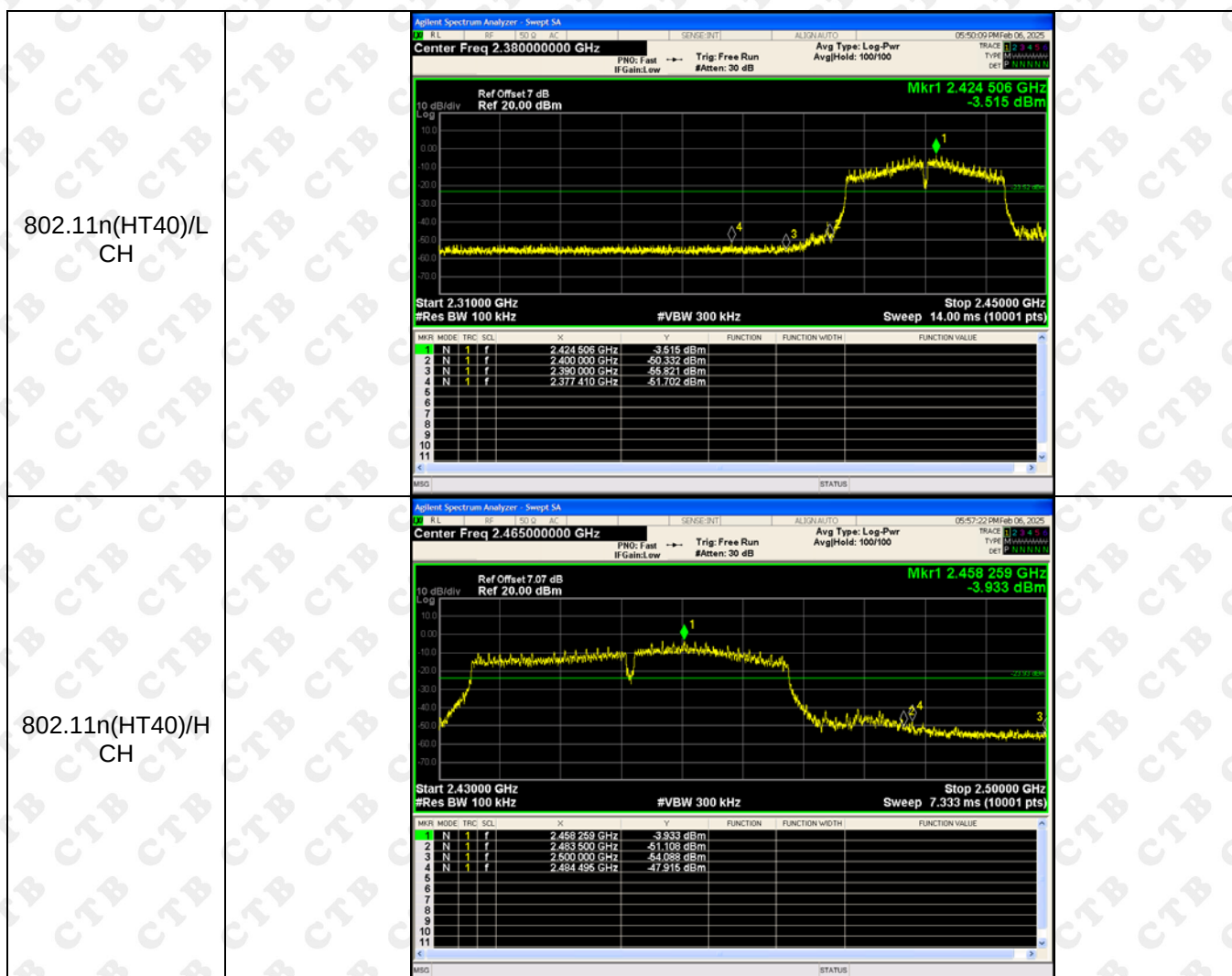
802.11g/LCH



802.11g/HCH

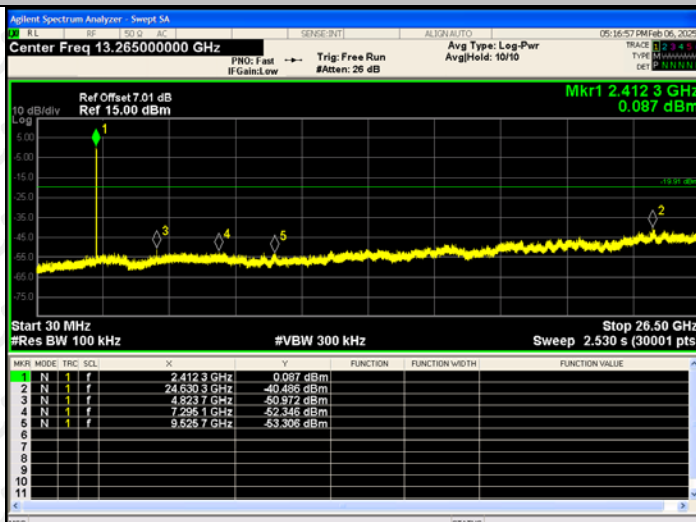




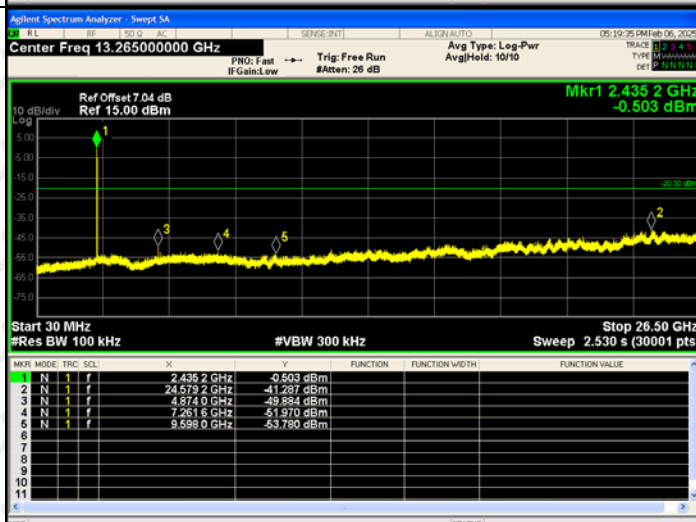


RF Conducted Spurious Emissions Graphs

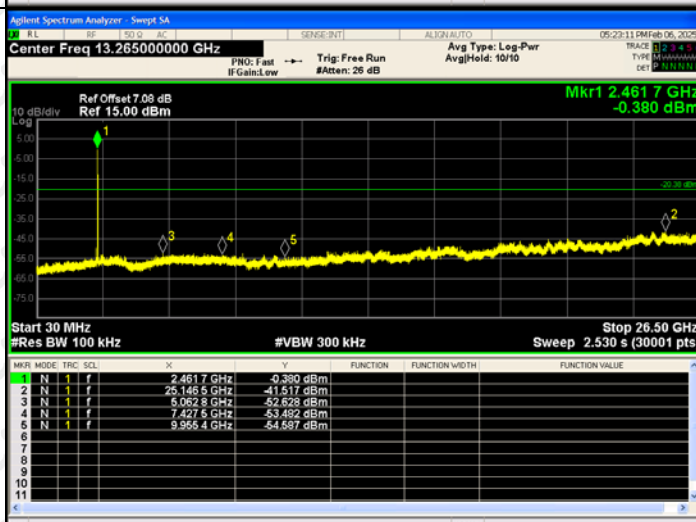
802.11b/LCH



802.11b/MCH

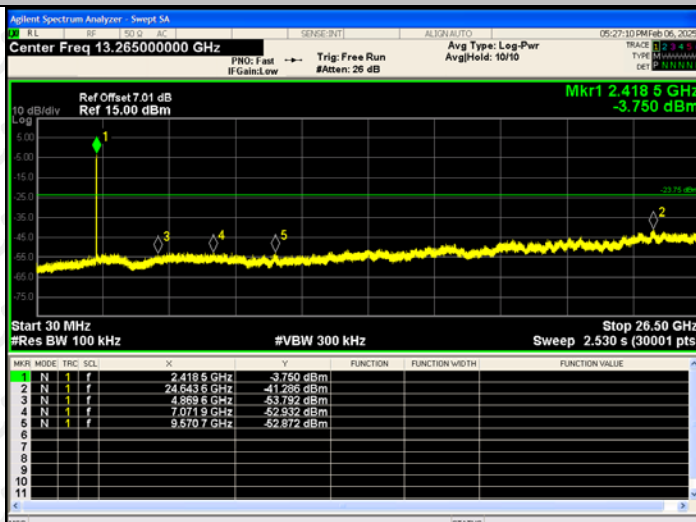


802.11b/HCH

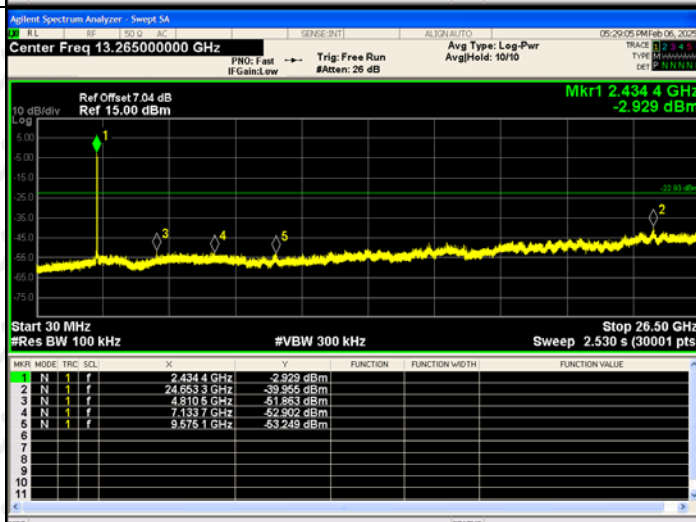


RF Conducted Spurious Emissions Graphs

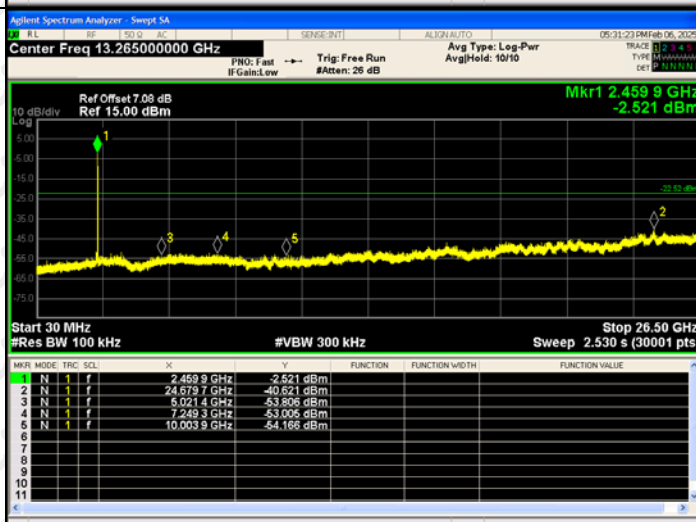
802.11g/LCH



802.11g/MCH

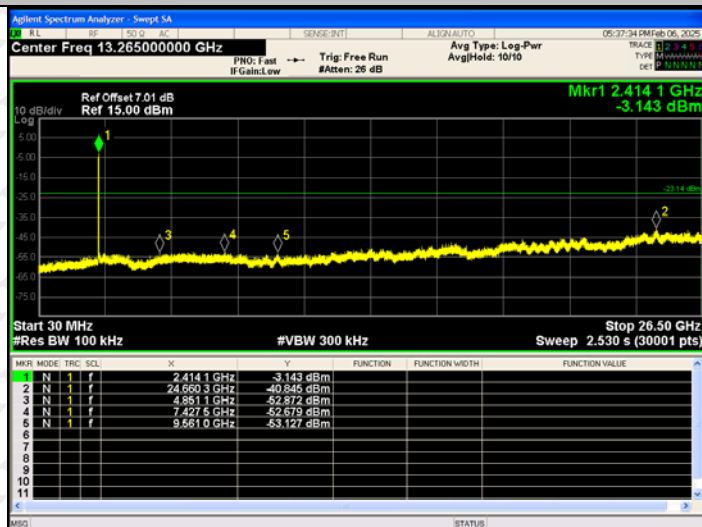


802.11g/HCH

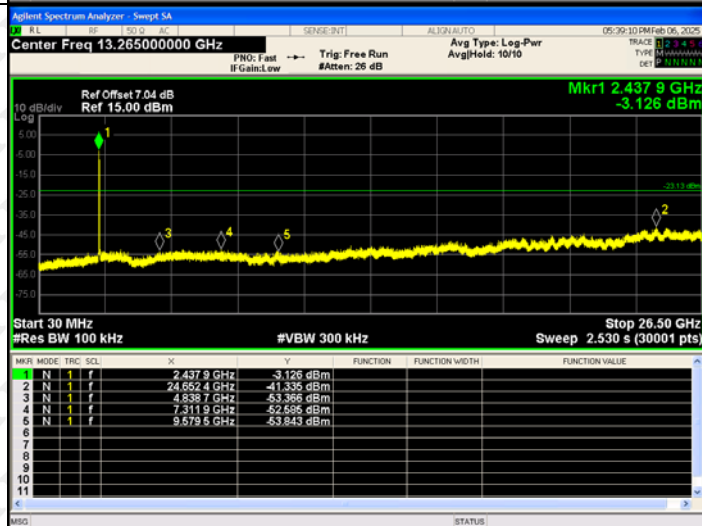


RF Conducted Spurious Emissions Graphs

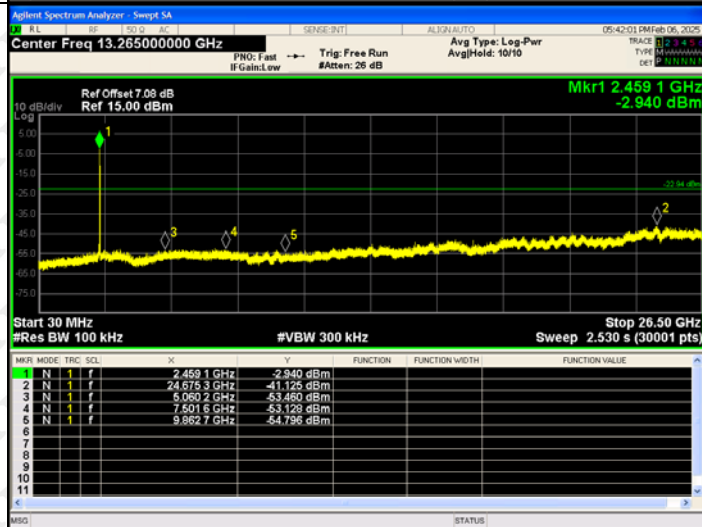
802.11n(HT20)/LCH



802.11 n(HT20)/MCH



802.11 n(HT20)/HCH



802.11n(HT40)/LCH	Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz Ref Offset 7 dB Ref 15.00 dBm Mkr1 2.4247 GHz -3.539 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts) <table><thead><tr><th>Mkr</th><th>Mode</th><th>TRF</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4247 GHz</td><td>-3.539 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>25.1527 GHz</td><td>-41.469 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.9058 GHz</td><td>-53.721 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.2069 GHz</td><td>-53.363 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.5071 GHz</td><td>-52.487 dBm</td><td></td><td></td><td></td></tr></tbody></table>	Mkr	Mode	TRF	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4247 GHz	-3.539 dBm				2	N	1	f	25.1527 GHz	-41.469 dBm				3	N	1	f	4.9058 GHz	-53.721 dBm				4	N	1	f	7.2069 GHz	-53.363 dBm				5	N	1	f	9.5071 GHz	-52.487 dBm			
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802.11 n(HT40)/HCH	Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz Ref Offset 7.07 dB Ref 15.00 dBm Mkr1 2.4573 GHz -3.869 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts) <table><thead><tr><th>Mkr</th><th>Mode</th><th>TRF</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4573 GHz</td><td>-3.869 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.6339 GHz</td><td>-41.485 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.8572 GHz</td><td>-53.366 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.1949 GHz</td><td>-52.372 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.7339 GHz</td><td>-54.556 dBm</td><td></td><td></td><td></td></tr></tbody></table>	Mkr	Mode	TRF	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4573 GHz	-3.869 dBm				2	N	1	f	24.6339 GHz	-41.485 dBm				3	N	1	f	4.8572 GHz	-53.366 dBm				4	N	1	f	7.1949 GHz	-52.372 dBm				5	N	1	f	9.7339 GHz	-54.556 dBm			
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9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Conducted Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 Test procedure

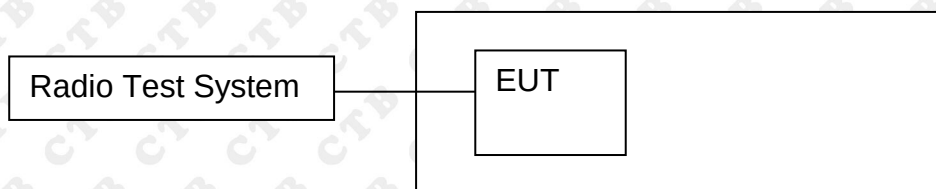
1. The EUT was directly connected to the Power meter

9.4 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
802.11b	LCH	15.061	30	PASS
	MCH	15.834	30	PASS
	HCH	15.313	30	PASS
802.11g	LCH	14.755	30	PASS
	MCH	15.371	30	PASS
	HCH	15.13	30	PASS
802.11n(HT20)	LCH	14.66	30	PASS
	MCH	15.124	30	PASS
	HCH	14.816	30	PASS
802.11n(HT40)	LCH	14.815	30	PASS
	MCH	14.802	30	PASS
	HCH	14.855	30	PASS

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

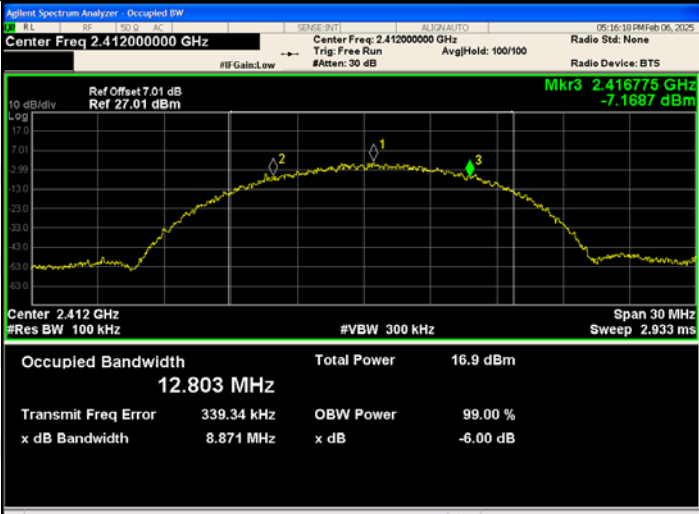
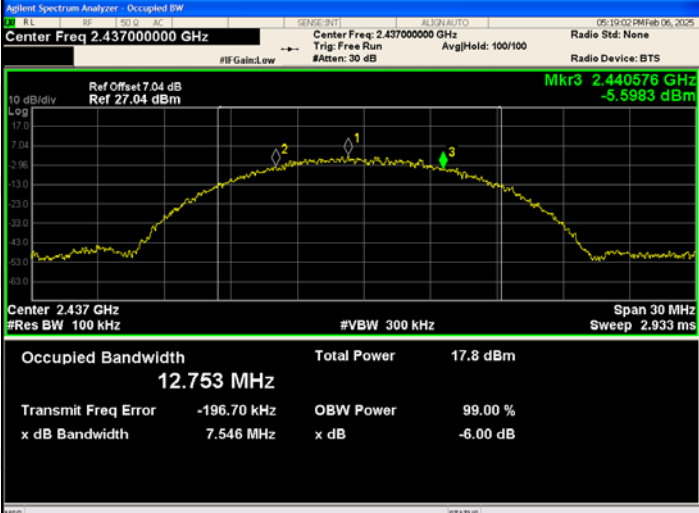
10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

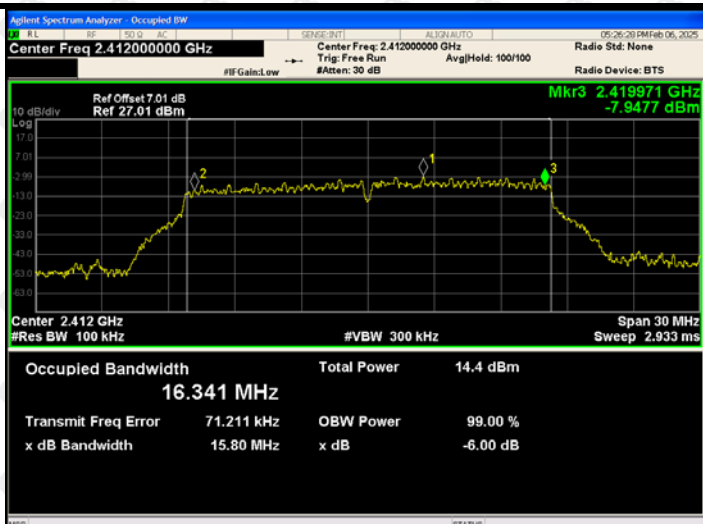
10.4 Test Result

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	8.871	500	PASS
	MCH	7.546	500	PASS
	HCH	7.23	500	PASS
802.11g	LCH	15.8	500	PASS
	MCH	15.83	500	PASS
	HCH	12.571	500	PASS
802.11n(HT20)	LCH	16.39	500	PASS
	MCH	17.318	500	PASS
	HCH	12.608	500	PASS
802.11n(HT40)	LCH	21.329	500	PASS
	MCH	36.39	500	PASS
	HCH	23.795	500	PASS

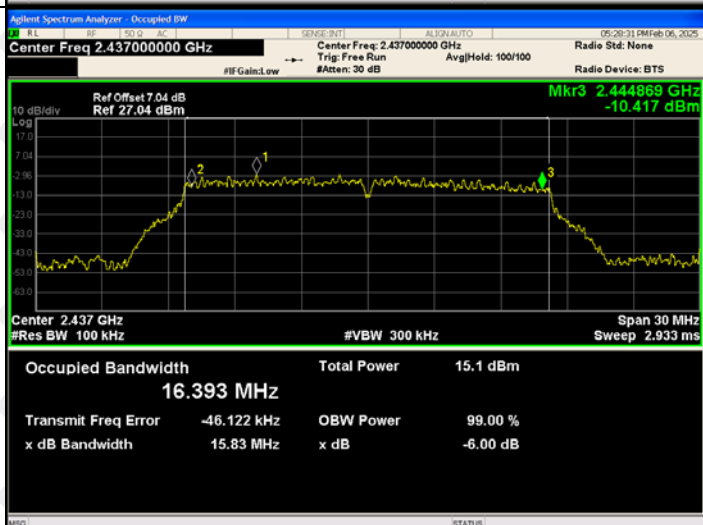
Test Graph:

Graphs	
802.11b /LCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run AvgHeld: 100/100 Radio Std: None Radio Device: BTS Ref Offset 7.01 dB Ref 27.01 dBm Mkr3 2.416775 GHz -7.1687 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 12.803 MHz Total Power 16.9 dBm Transmit Freq Error 339.34 kHz OBW Power 99.00 % x dB Bandwidth 8.871 MHz x dB -6.00 dB
802.11b /MCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run AvgHeld: 100/100 Radio Std: None Radio Device: BTS Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.440576 GHz -5.5983 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 12.753 MHz Total Power 17.8 dBm Transmit Freq Error -196.70 kHz OBW Power 99.00 % x dB Bandwidth 7.546 MHz x dB -6.00 dB
802.11b/HCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run AvgHeld: 100/100 Radio Std: None Radio Device: BTS Ref Offset 7.08 dB Ref 27.08 dBm Mkr3 2.46535 GHz -6.7617 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 11.903 MHz Total Power 17.2 dBm Transmit Freq Error -264.95 kHz OBW Power 99.00 % x dB Bandwidth 7.230 MHz x dB -6.00 dB

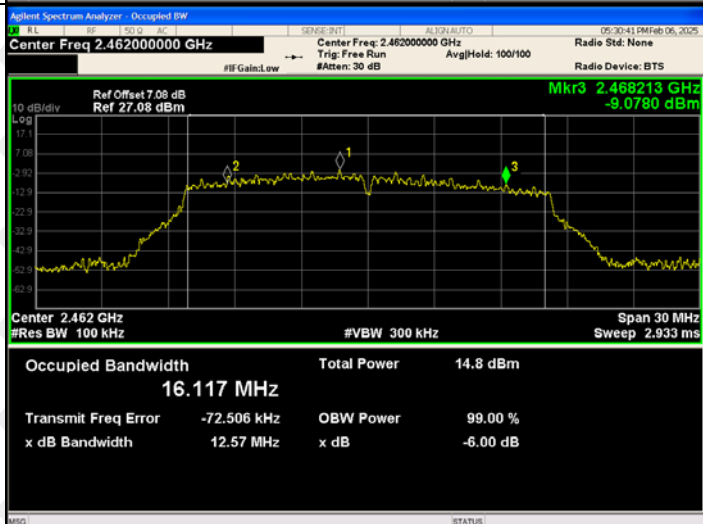
802.11g/LCH

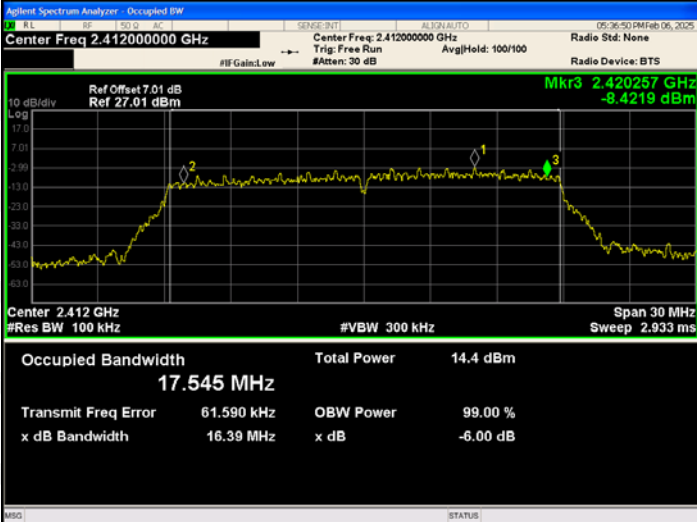
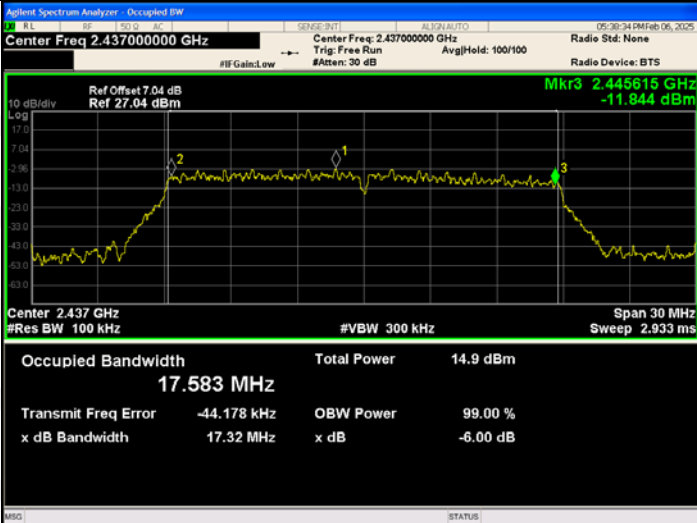
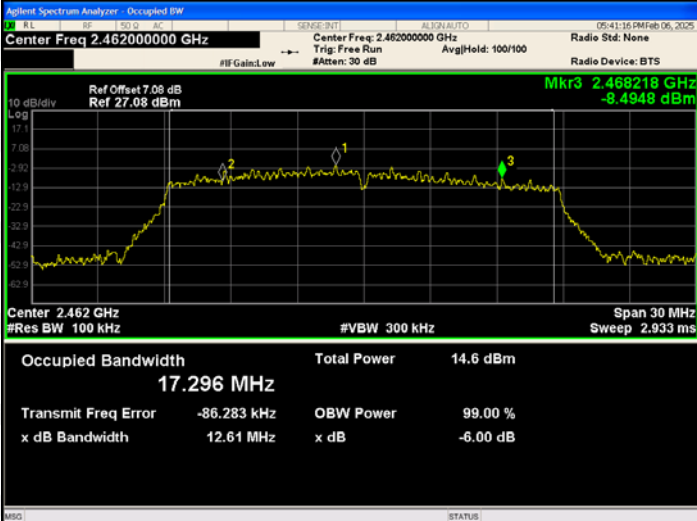


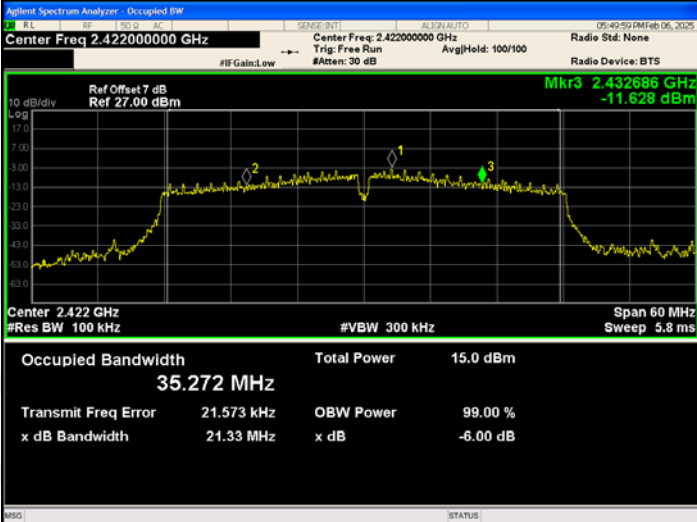
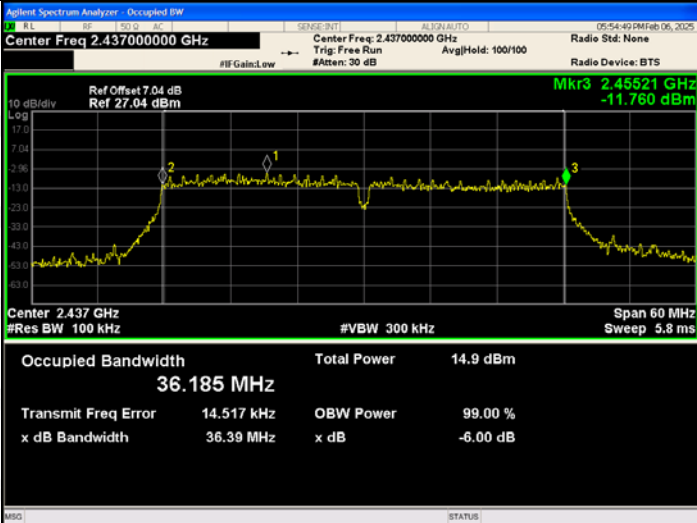
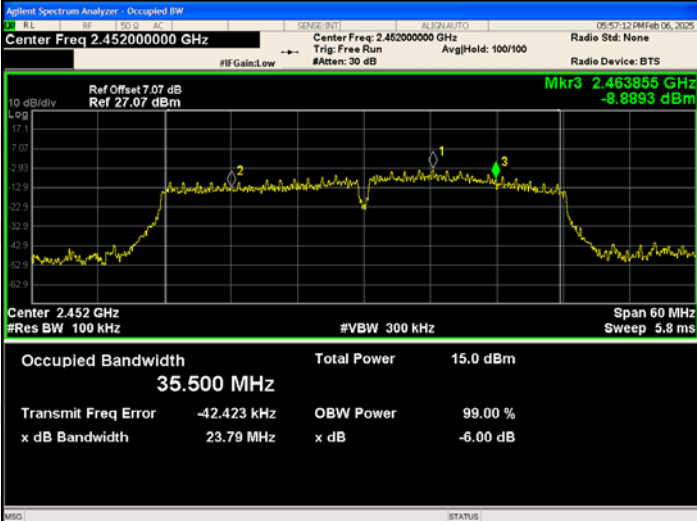
802.11g/MCH



802.11g/HCH

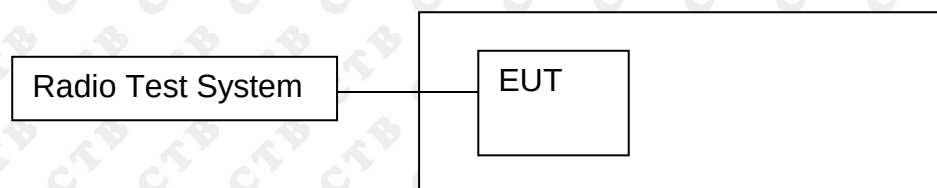


802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Mkr3 2.420257 GHz -8.4219 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.545 MHz Total Power 14.4 dBm Transmit Freq Error 61.590 kHz OBW Power 99.00 % x dB Bandwidth 16.39 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.445615 GHz -11.844 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.583 MHz Total Power 14.9 dBm Transmit Freq Error -44.178 kHz OBW Power 99.00 % x dB Bandwidth 17.32 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 7.08 dB Ref 27.08 dBm Mkr3 2.468218 GHz -8.4948 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.296 MHz Total Power 14.6 dBm Transmit Freq Error -86.283 kHz OBW Power 99.00 % x dB Bandwidth 12.61 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 7 dB Ref 27.00 dBm Mkr3 2.432686 GHz -11.628 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 35.272 MHz Total Power 15.0 dBm Transmit Freq Error 21.573 kHz OBW Power 99.00 % x dB Bandwidth 21.33 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.45521 GHz -11.760 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.185 MHz Total Power 14.9 dBm Transmit Freq Error 14.517 kHz OBW Power 99.00 % x dB Bandwidth 36.39 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Mkr3 2.463855 GHz -8.8993 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 35.500 MHz Total Power 15.0 dBm Transmit Freq Error -42.423 kHz OBW Power 99.00 % x dB Bandwidth 23.79 MHz x dB -6.00 dB

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

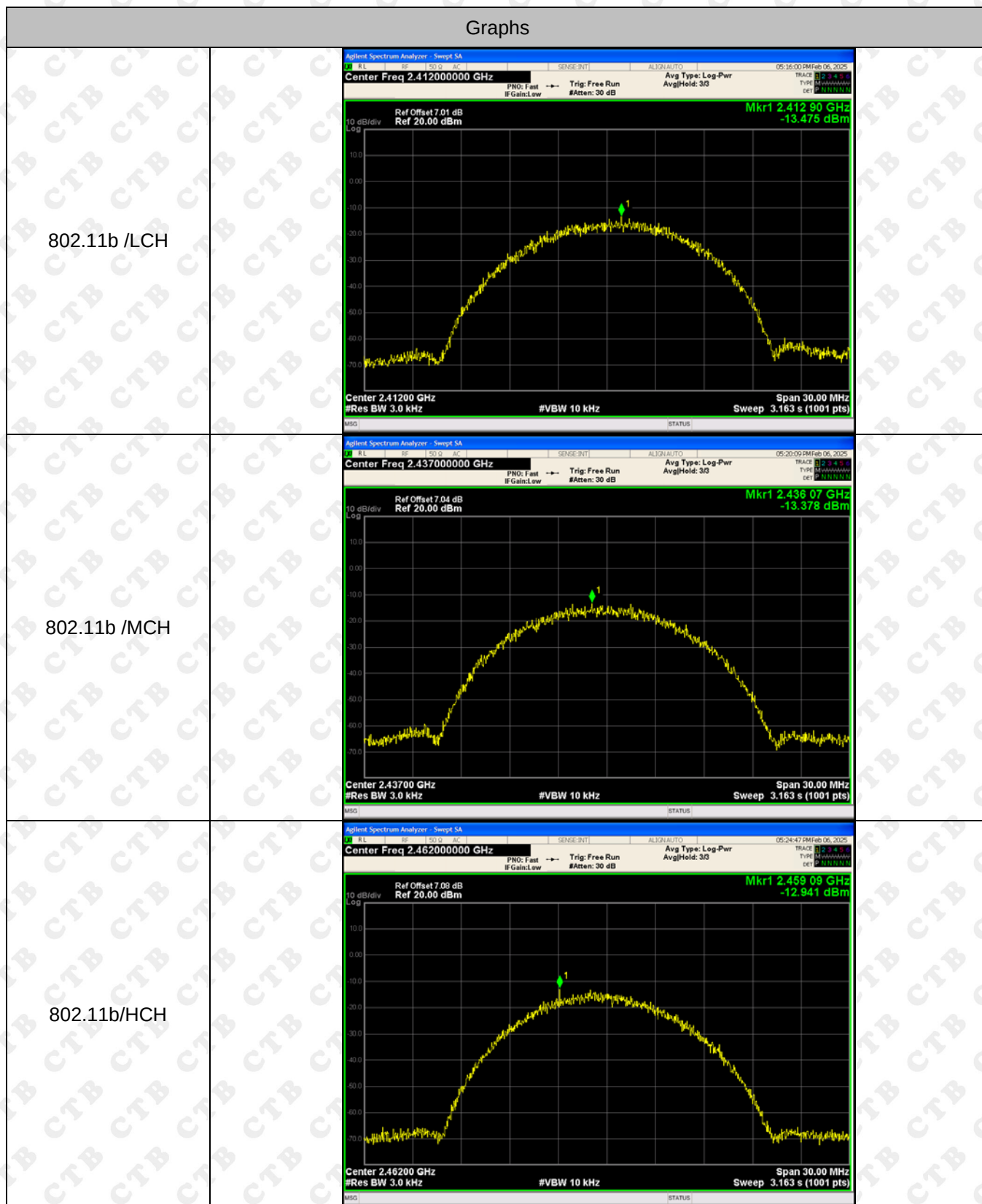
11.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = PEAK.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

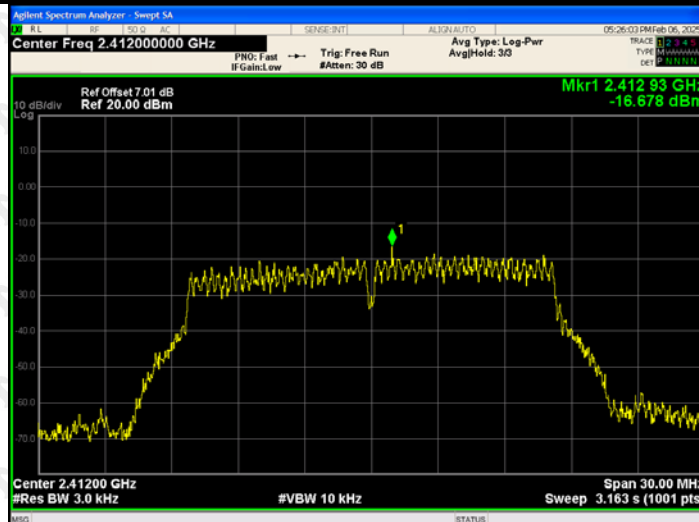
11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-13.475	8	PASS
	MCH	-13.378	8	PASS
	HCH	-12.941	8	PASS
802.11g	LCH	-16.678	8	PASS
	MCH	-16.918	8	PASS
	HCH	-16.742	8	PASS
802.11n(H T20)	LCH	-18.048	8	PASS
	MCH	-18.267	8	PASS
	HCH	-17.585	8	PASS
802.11n(H T40)	LCH	-19.692	8	PASS
	MCH	-19.395	8	PASS
	HCH	-18.778	8	PASS

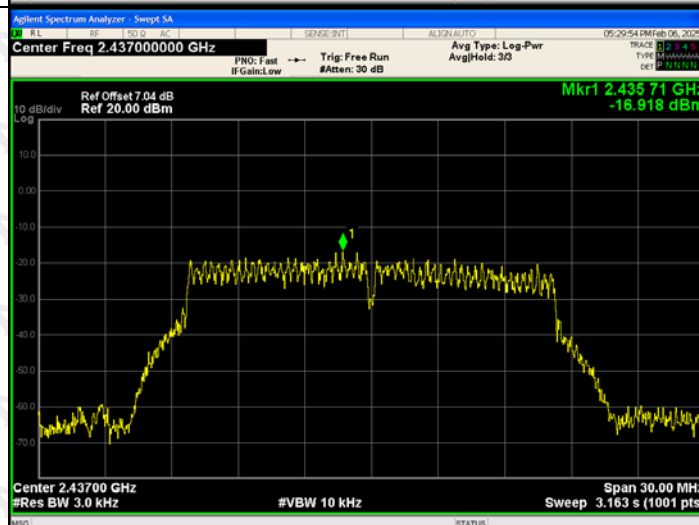
Test Graph



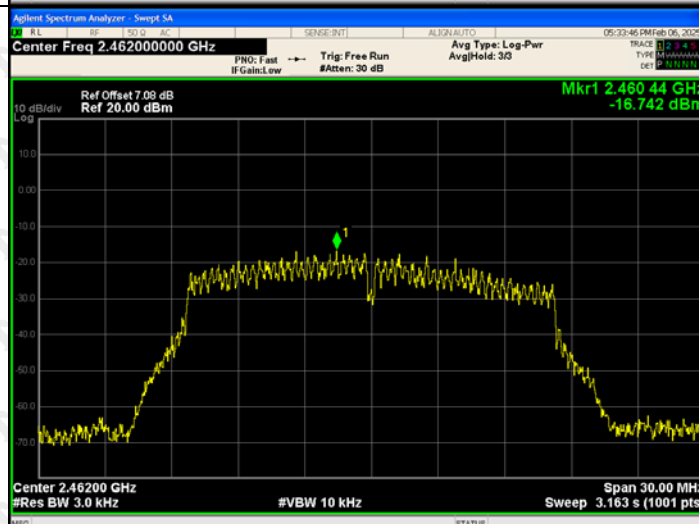
802.11g/LCH

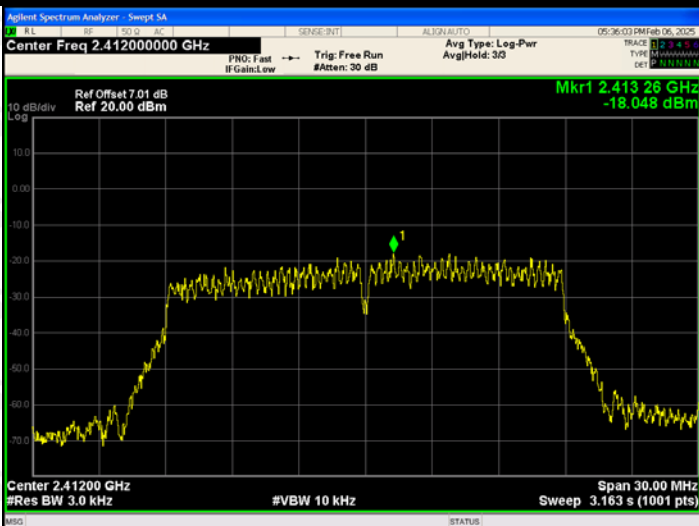
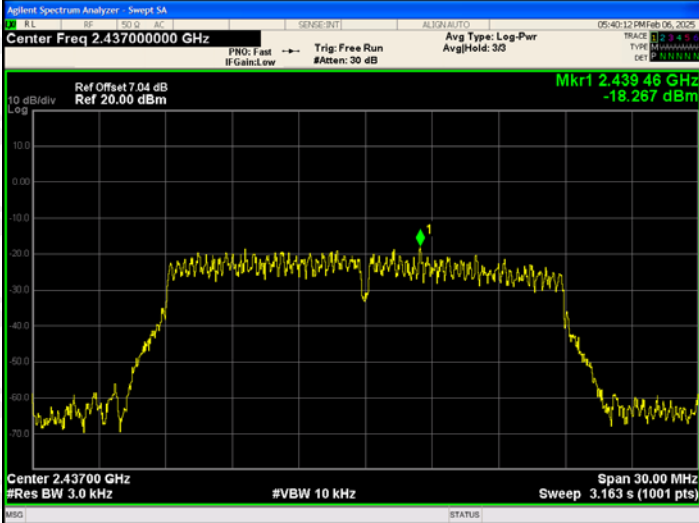
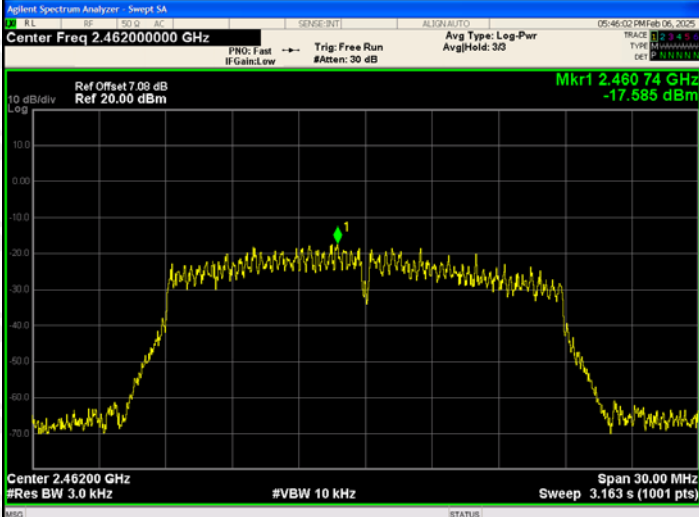


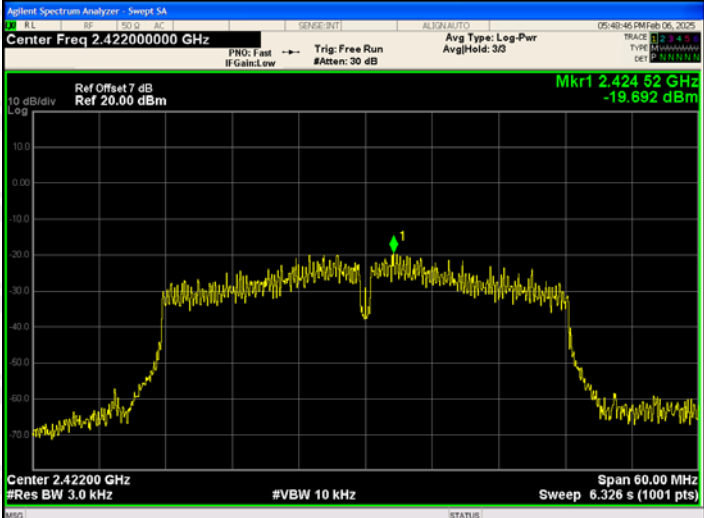
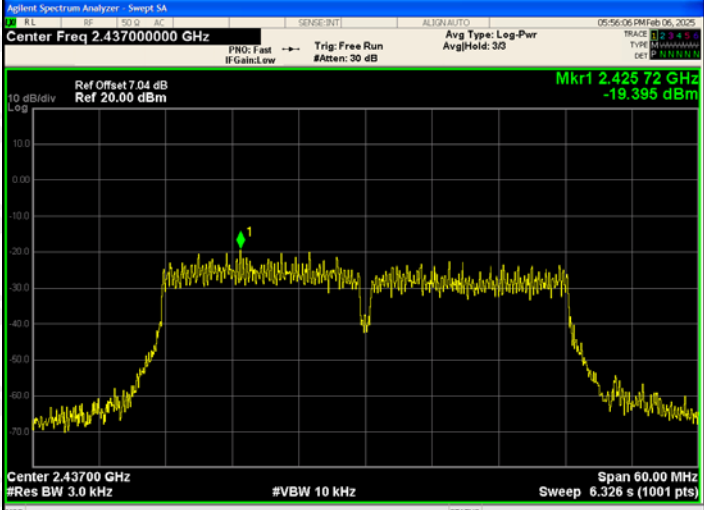
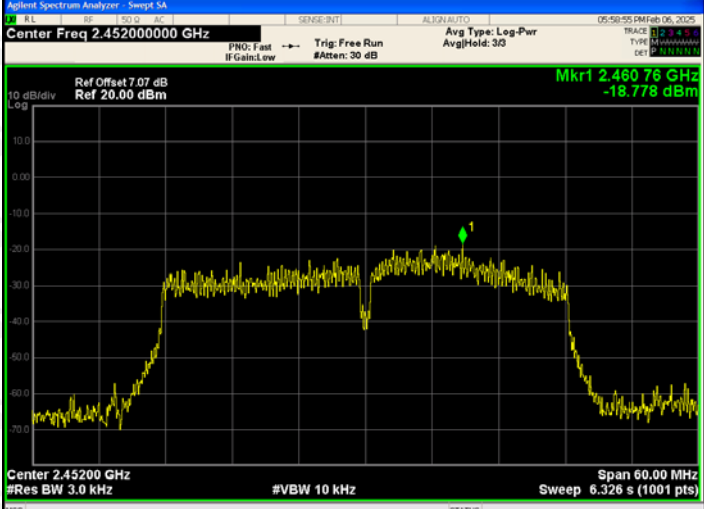
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41326 GHz -18.048 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.43946 GHz -18.267 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.46074 GHz -17.585 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.424 52 GHz -19.692 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.425 72 GHz -19.395 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.460 76 GHz -18.778 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

12. ANTENNA REQUIREMENT

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.

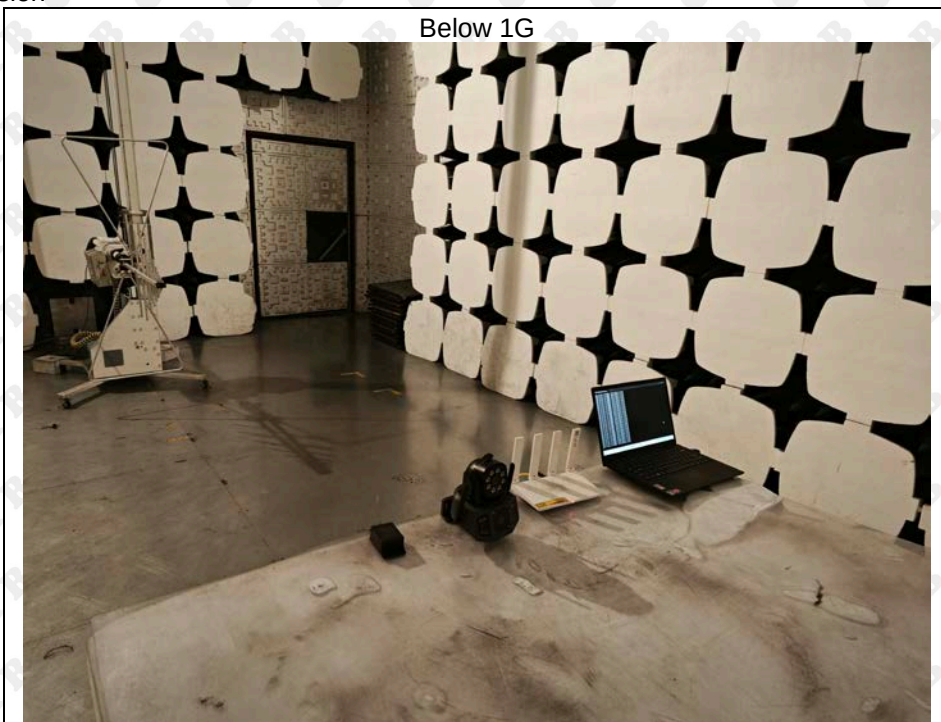
EUT Antenna:

The antenna is External antenna and no consideration of replacement. The best case gain of the antenna is 4.38dBi

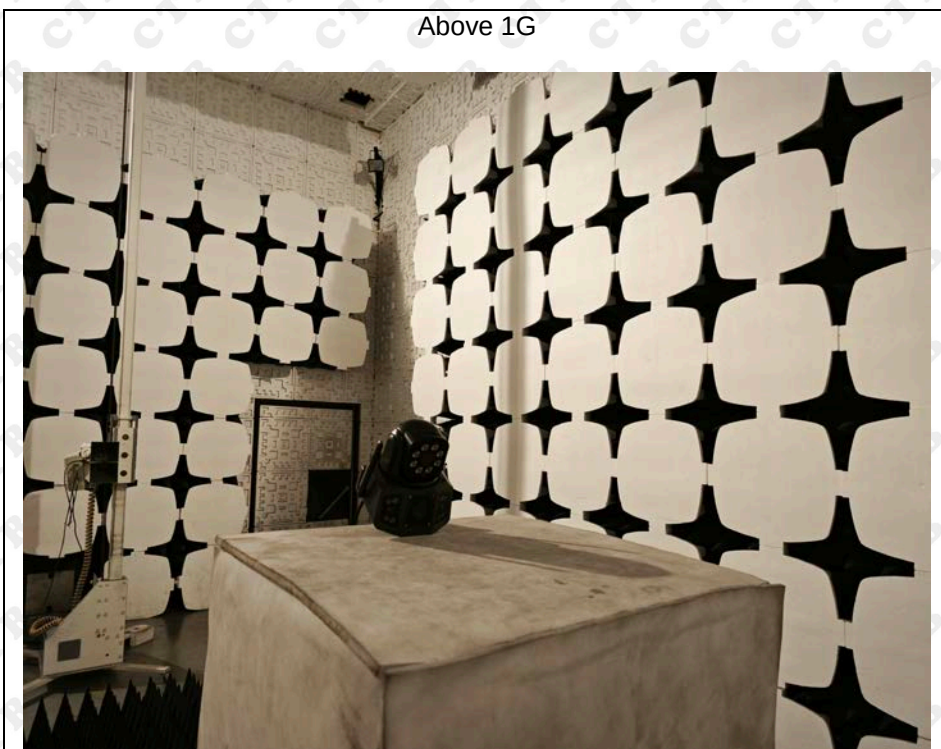
13. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

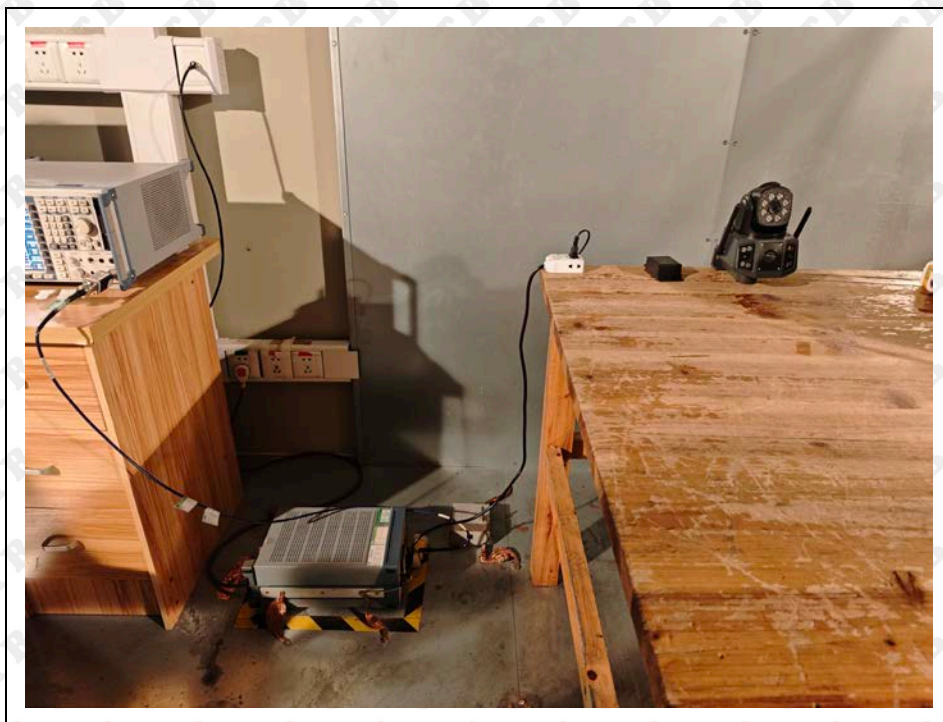
Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****