

TEST REPORT

Product Name: Wireless Camera System

FCC ID: 2A7AONS1-4H-3MPW

Trademark: N/A

Model Number: NS1-4H-3MPW, NS1-8H-3MPW, NK1-4H-2MPW, NK1-8H-2MPW, NK2-4H-5MP, NK2-8H-5MP, NK3-4H-5MP, NK3-8H-5MP, NK4-4H-3MPW, NK4-8H-3MPW, NK5-4H-3MPW, NK5-8H-3MPW, NK6-4H-3MPW, NK7-8H-3MPW, NK7-4H-3MPW, NK6-8H-3MPW, NK8-4H-3MPW, NK8-8H-3MPW, NK9-4H-3MPW, NK9-8H-3MPW, NK10-4H-3MPW, NK10-8H-3MPW

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Prepared By: Shenzhen CTB Testing Technology Co., Ltd.

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Sample Received Date: Jun. 02, 2022

Sample tested Date: Jun. 02, 2022 to Jun. 09, 2022

Issue Date: Jun. 09, 2022

Report No.: CTB220606025RFX

Test Standards: FCC Part15.247
ANSI C63.10:2013

Test Results: PASS

Remark: This is WIFI-2.4GHz band radio test report.

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TABLE OF CONTENT

Test Report Declaration	Page
1. VERSION	4
2. TEST SUMMARY	5
3. MEASUREMENT UNCERTAINTY	6
4. PRODUCT INFORMATION AND TEST SETUP	7
4.1 Product Information	7
4.2 Test Setup Configuration	8
4.3 Support Equipment	8
4.4 Channel List	8
4.5 Test Mode	8
4.6 Test Environment	9
5. TEST FACILITY AND TEST INSTRUMENT USED	10
5.1 Test Facility	10
5.2 Test Instrument Used	10
6. AC POWER LINE CONDUCTED EMISSION	12
6.1 Block Diagram Of Test Setup	12
6.2 Limit	12
6.3 Test procedure	12
6.4 Test Result	14
7. RADIATED SPURIOUS EMISSION	16
7.1 Block Diagram Of Test Setup	16
7.2 Limit	16
7.3 Test procedure	17
7.4 Test Result	18
8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS	40
8.1 Block Diagram Of Test Setup	40
8.2 Limit	40
8.3 Test procedure	40
8.4 Test Result	41
9. CONDUCTED OUTPUT POWER	65
9.1 Block Diagram Of Test Setup	65
9.2 Limit	65
9.3 Test procedure	65
9.4 Test Result	66
10. 6DB OCCUPIED BANDWIDTH	67
10.1 Block Diagram Of Test Setup	67
10.2 Limit	67
10.3 Test procedure	67
10.4 Test Result	68
11. POWER SPECTRAL DENSITY	82
11.1 Block Diagram Of Test Setup	82
11.2 Limit	82



11.3	Test procedure	82
11.4	Test Result	83
12.	ANTENNA REQUIREMENT	96
13.	EUT PHOTOGRAPHS	97
14.	EUT TEST SETUP PHOTOGRAPHS	98

(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB220606025RFX	Jun. 09, 2022	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 D01 v05r02	PASS
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (b)	ANSI C63.10-2013	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 C63.4-2014 & 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 chamber Radiated spurious emission(9KHz-30MHz)	$U=\pm 4.8\text{dB}$
3m chamber 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(1GHz-40GHz)	$U=\pm 4.8\text{dB}$
humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$
Conducted Emission (9KHz-30MHz)	3.2 dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	NS1-4H-3MPW, NS1-4H-3MPW, NS1-8H-3MPW, NK1-4H-2MPW, NK1-8H-2MPW, NK2-4H-5MP, NK2-8H-5MP, NK3-4H-5MP, NK3-8H-5MP, NK4-4H-3MPW, NK4-8H-3MPW, NK5-4H-3MPW, NK5-8H-3MPW, NK6-4H-3MPW, NK7-8H-3MPW, NK7-4H-3MPW, NK6-8H-3MPW, NK8-4H-3MPW, NK8-8H-3MPW, NK9-4H-3MPW, NK9-8H-3MPW, NK10-4H-3MPW, NK10-8H-3MPW
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: NS1-4H-3MPW
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) : 9.592dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	ANT1+ANT2: External antenna ANT3: Internal antenna
Antenna Gain:	ANT1+ANT2: 1.0dBi ANT3:1.0dBi
Ratings:	INPUT:100-240V~50/60Hz 1A OUTPUT:12V 2A

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	AC Adapter	ShenZhen Yuanfang Technology Development Co., Ltd	RXZ12V2A-A	N/A	AC
2	PC	DELL	Inspiron 5507	N/A	AC

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.

ANT 1, ANT 2

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

MIMO(ANT 1+ANT 2)

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

EUT has two Internal Antenna with Max Antenna Gain 1.2dBi on every antenna, CDD device with two spatial streams, according to KDB662911 D01 v02r01,
Directional gain= GANT + Array Gain, where Array Gain is as follows.

- 1) For power spectral density(PSD) measurements,
Array Gain=10log(NANT/NSS)dB=10log(2/1)=3.01dB,
So the directional gain for PSD is 4.01dBi

2) For power measurements,
The Array gain=0 dB for $NANT \leq 4$,
So the directional gain for Power measurements is 1dBi
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(%):	55
Atmospheric Pressure(kPa):	101
Normal Voltage(AC):	120
Normal Temperature($^{\circ}\text{C}$)	23
Low Temperature($^{\circ}\text{C}$)	0
High Temperature($^{\circ}\text{C}$)	50

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen 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	Model No.	Serial No.	Calibrate date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2021.09.27	2022.08.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2021.09.27	2022.08.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2021.09.27	2022.08.05
4	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
5	Spectrum Analyzer	R&S	FSP40	100550	2021.09.27	2022.08.05
6	Signal Generator	Agilent	N5181A	MY49060920	2021.09.27	2022.08.16
7	Signal Generator	Agilent	N5182A	MY47420195	2021.09.27	2022.08.05
8	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
9	band rejection filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2021.09.27	2022.08.05
10	band rejection filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2021.09.27	2022.08.05
11	band rejection filter	Xingbo	XBLBQ-DZA120	190821-1-1	2021.09.27	2022.08.05
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	2021.09.27	2022.08.05
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2021.09.27	2022.08.05
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2021.09.27	2022.08.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	2021.09.27	2022.08.05
16	966 chamber	C.R.T.	966 Room	966	2021.09.27	2024.08.11
17	Receiver	R&S	ESPI	100362	2021.09.27	2022.08.05
18	Amplifier	HP	8447E	2945A02747	2021.09.27	2022.08.05
19	Amplifier	Agilent	8449B	3008A01838	2021.09.27	2022.08.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	869	2021.09.27	2022.08.07

21	Horn Antenna	Schwarzbeck	BBHA9120D	1911	2021.09.27	2022.08.08
22	Software	Fala	EZ-EMC	FA-03A2 RE	2021.09.27	2022.08.05
23	3-Loop Antenna	Daze	ZN30401	17014	2021.09.27	2022.08.05
24	loop antenna	ZHINAN	ZN30900A	/	2021.09.27	2022.08.05
25	Horn antenna	A/H/System	SAS-574	588	2021.09.27	2022.08.05
26	Amplifier	AEROFLEX	/	S/N/ 097	2021.09.27	2022.08.05

Continuous disturbance

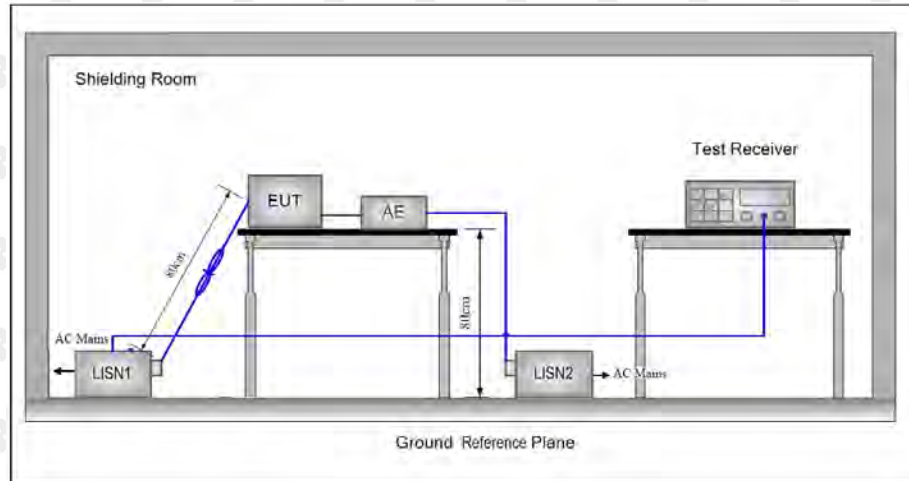
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated date	Calibrated until
1	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2021.09.27	2022.08.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2021.09.27	2022.08.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCS30	834115/006	2021.09.27	2022.08.05
4	Coaxial cable	ZDECL	Z302S	18091904	2021.09.27	2022.08.05
5	AAN	Schwarzbeck	NTFM8158	183	2021.09.27	2022.08.05
6	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
7	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
8	EZ-EMC	Frad	EMC-con3A1.1	/	/	/

Radiated emission

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated date	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2021.11.01	2022.08.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2021.11.01	2022.08.05
3	Amplifier	Agilent	8449B	3008A01838	2021.09.27	2022.08.05
4	Amplifier	HP	8447E	2945A02747	2021.09.27	2022.08.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2021.09.27	2022.08.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2021.09.27	2022.08.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2021.09.27	2022.08.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2021.09.27	2022.08.05
9	Coaxial cable	ETS	RFC-NNS-100-NMS-30 0 NI	/	2021.09.27	2022.08.05
10	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
11	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
12	EZ-EMC	Frad	EMC-con3A1.1	/	/	/

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

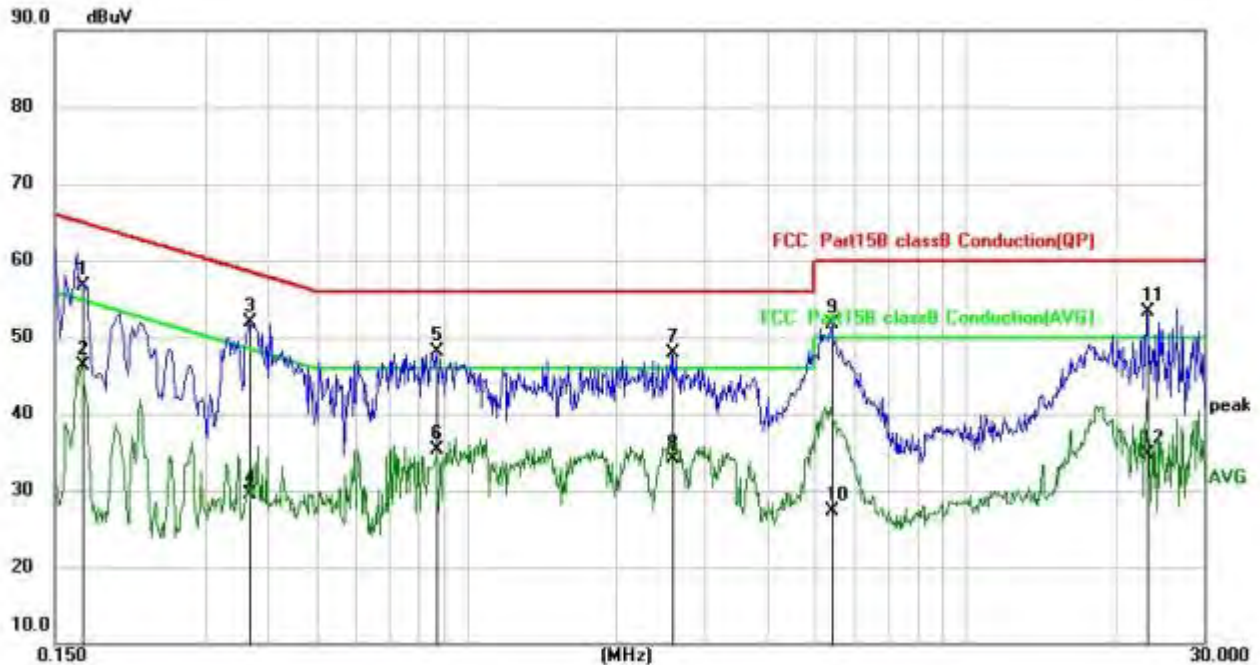
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a 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 on conducted measurement.

6.4 Test Result

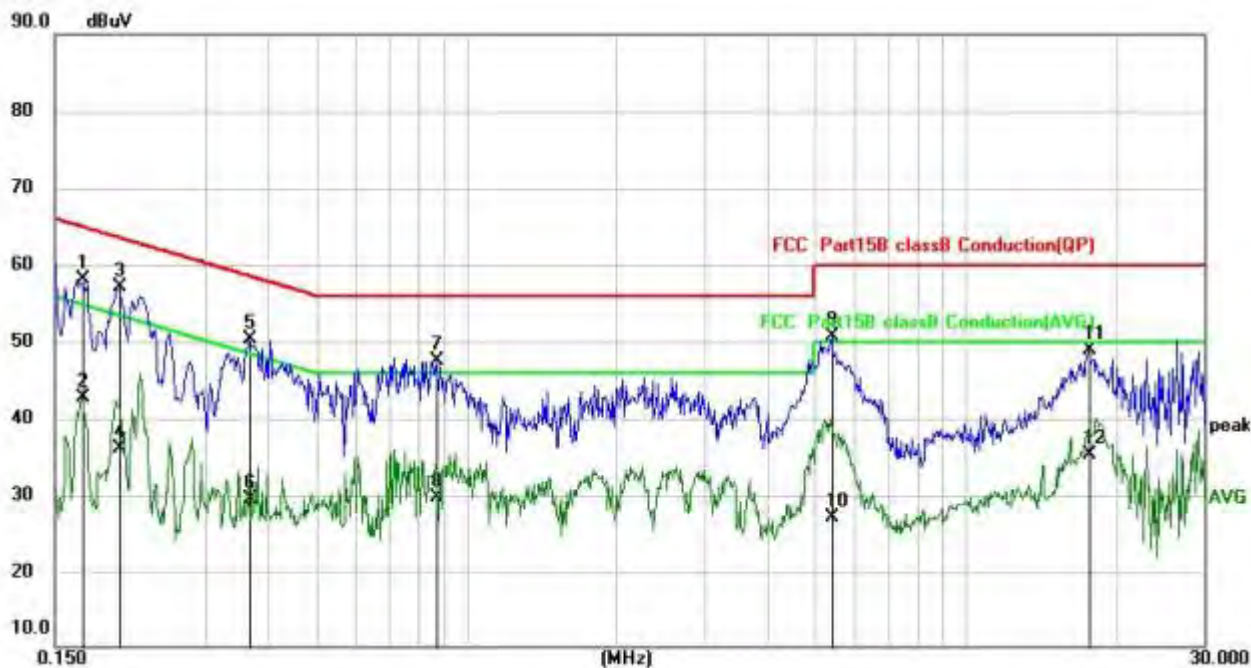
Test Specification: Line
AC 120V 60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector
1		0.1700	46.06	10.71	56.77	64.96	-8.19	QP
2		0.1700	35.51	10.71	46.22	54.96	-8.74	AVG
3	*	0.3673	41.28	10.60	51.88	58.56	-6.68	QP
4		0.3673	18.81	10.60	29.41	48.56	-19.15	AVG
5		0.8739	37.50	10.59	48.09	56.00	-7.91	QP
6		0.8739	24.73	10.59	35.32	46.00	-10.68	AVG
7		2.5900	37.22	10.63	47.85	56.00	-8.15	QP
8		2.5900	23.56	10.63	34.19	46.00	-11.81	AVG
9		5.4179	41.08	10.66	51.74	60.00	-8.26	QP
10		5.4179	16.61	10.66	27.27	50.00	-22.73	AVG
11		23.1299	42.29	11.00	53.29	60.00	-6.71	QP
12		23.1299	23.72	11.00	34.72	50.00	-15.28	AVG

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

Test Specification: Neutral
AC 120V 60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector
1		0.1700	47.34	10.71	58.05	64.96	-6.91	QP
2		0.1700	32.01	10.71	42.72	54.96	-12.24	AVG
3	*	0.2020	46.42	10.69	57.11	63.53	-6.42	QP
4		0.2020	25.50	10.69	36.19	53.53	-17.34	AVG
5		0.3673	39.78	10.60	50.38	58.56	-8.18	QP
6		0.3673	18.82	10.60	29.42	48.56	-19.14	AVG
7		0.8739	37.00	10.59	47.59	56.00	-8.41	QP
8		0.8739	19.19	10.59	29.78	46.00	-16.22	AVG
9		5.4179	40.08	10.66	50.74	60.00	-9.26	QP
10		5.4179	16.38	10.66	27.04	50.00	-22.96	AVG
11		17.6579	37.88	10.95	48.83	60.00	-11.17	QP
12		17.6579	24.25	10.95	35.20	50.00	-14.80	AVG

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

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

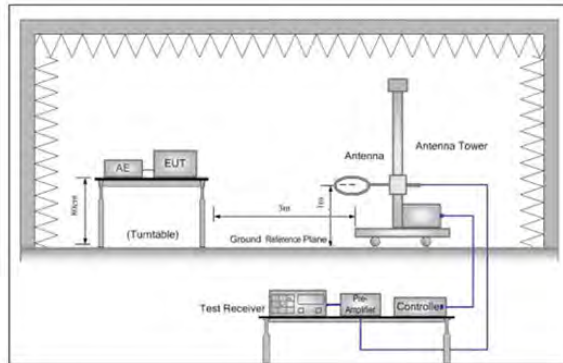


Figure 1. Below 30MHz

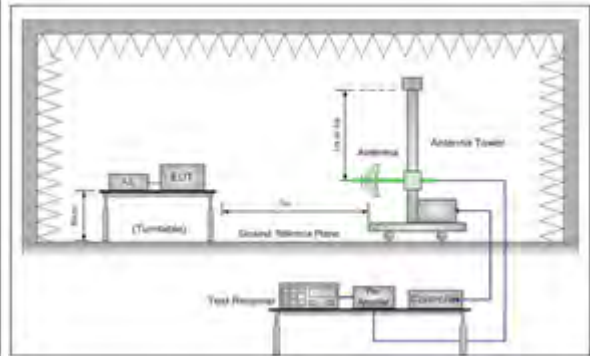


Figure 2. 30MHz to 1GHz

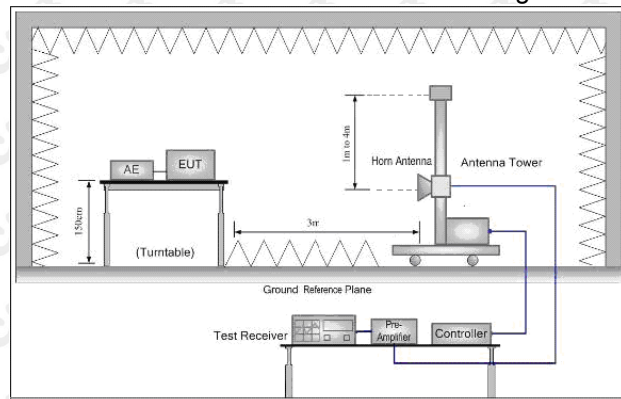


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (microvolt/meter)	Limit (dBμV/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
- j. 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

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

7.4 Test Result

After pre-scanning three directions, the report recorded the worst case

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		44.9004	38.47	-5.45	33.02	40.00	-6.98	QP
2	*	58.9217	41.08	-6.11	34.97	40.00	-5.03	QP
3		114.7155	39.79	-7.47	32.32	43.50	-11.18	QP
4		223.3413	41.85	-6.42	35.43	43.50	-8.07	QP
5		364.8987	40.75	-2.92	37.83	46.00	-8.17	QP
6		948.7608	30.37	5.91	36.28	46.00	-9.72	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		44.5086	39.31	-5.44	33.87	40.00	-6.13	QP
2	*	67.2021	42.62	-7.44	35.18	40.00	-4.82	QP
3		144.0818	41.76	-5.46	36.30	43.50	-7.20	QP
4	!	170.1947	44.30	-6.18	38.12	43.50	-5.38	QP
5		419.8435	34.85	-1.21	33.64	46.00	-12.36	QP
6		869.1301	29.59	6.15	35.74	46.00	-10.26	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.

2. All modes have been tested, and the test results show that ANT2 b-mode data is the worst, only ANT2 b-mode test chart is put.

Above 1 GHz Test Results:

ANT2 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	64.63	-3.64	60.99	74	-13.01	peak
4824	50.50	-3.64	46.86	54	-7.14	AVG
7236	57.62	-0.95	56.67	74	-17.33	peak
7236	44.18	-0.95	43.23	54	-10.77	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	65.84	-3.64	62.20	74	-11.80	peak
4824	48.13	-3.64	44.49	54	-9.51	AVG
7236	58.76	-0.95	57.81	74	-16.19	peak
7236	44.70	-0.95	43.75	54	-10.25	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT2 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	65.63	-3.51	62.12	74	-11.88	peak
4874	50.78	-3.51	47.27	54	-6.73	AVG
7311	59.88	-0.82	59.06	74	-14.94	peak
7311	45.51	-0.82	44.69	54	-9.31	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	63.80	-3.51	60.29	74	-13.71	peak
4874	47.95	-3.51	44.44	54	-9.56	AVG
7311	58.28	-0.82	57.46	74	-16.54	peak
7311	43.66	-0.82	42.84	54	-11.16	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT2 HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	64.67	-3.43	61.24	74	-12.76	peak
4924	47.28	-3.43	43.85	54	-10.15	AVG
7386	59.45	-0.75	58.70	74	-15.30	peak
7386	42.83	-0.75	42.08	54	-11.92	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	65.37	-3.43	61.94	74	-12.06	peak
4924	45.96	-3.43	42.53	54	-11.47	AVG
7386	56.58	-0.75	55.83	74	-18.17	peak
7386	42.16	-0.75	41.41	54	-12.59	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.

ANT2 LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	64.61	-3.64	60.97	74	-13.03	peak
4824	48.18	-3.64	44.54	54	-9.46	AVG
7236	58.26	-0.95	57.31	74	-16.69	peak
7236	46.75	-0.95	45.80	54	-8.20	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
4824	62.61	-3.64	58.97	74	-15.03	peak
4824	48.53	-3.64	44.89	54	-9.11	AVG
7236	58.77	-0.95	57.82	74	-16.18	peak
7236	44.41	-0.95	43.46	54	-10.54	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT2 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	62.77	-3.51	59.26	74	-14.74	peak
4874	47.75	-3.51	44.24	54	-9.76	AVG
7311	59.17	-0.82	58.35	74	-15.65	peak
7311	43.53	-0.82	42.71	54	-11.29	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)	
4874	64.74	-3.51	61.23	74	-12.77	peak
4874	47.39	-3.51	43.88	54	-10.12	AVG
7311	56.04	-0.82	55.22	74	-18.78	peak
7311	41.60	-0.82	40.78	54	-13.22	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	62.28	-3.43	58.85	74	-15.15	peak
4924	47.30	-3.43	43.87	54	-10.13	AVG
7386	57.68	-0.75	56.93	74	-17.07	peak
7386	42.94	-0.75	42.19	54	-11.81	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT2 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	63.47	-3.43	60.04	74	-13.96	peak
4924	49.72	-3.43	46.29	54	-7.71	AVG
7386	56.70	-0.75	55.95	74	-18.05	peak
7386	42.28	-0.75	41.53	54	-12.47	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

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.

Above 1GHz ANT1+ANT2 :

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	63.48	-3.64	59.84	74	-14.16	peak
4824	48.02	-3.64	44.38	54	-9.62	AVG
7236	58.10	-0.95	57.15	74	-16.85	peak
7236	44.44	-0.95	43.49	54	-10.51	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	64.58	-3.64	60.94	74	-13.06	peak
4824	51.09	-3.64	47.45	54	-6.55	AVG
7236	56.88	-0.95	55.93	74	-18.07	peak
7236	43.75	-0.95	42.80	54	-11.20	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT1+ANT2 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	64.72	-3.51	61.21	74.00	-12.79	peak
4874.00	47.87	-3.51	44.36	54.00	-9.64	AVG
7311.00	56.23	-0.82	55.41	74.00	-18.59	peak
7311.00	46.31	-0.82	45.49	54.00	-8.51	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	64.24	-3.51	60.73	74.00	-13.27	peak
4874.00	47.61	-3.51	44.10	54.00	-9.90	AVG
7311.00	58.36	-0.82	57.54	74.00	-16.46	peak
7311.00	43.43	-0.82	42.61	54.00	-11.39	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT1+ANT2 HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.00	-3.43	58.57	74	-15.43	peak
4924	45.79	-3.43	42.36	54	-11.64	AVG
7386	57.79	-0.75	57.04	74	-16.96	peak
7386	43.59	-0.75	42.84	54	-11.16	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	62.87	-3.43	59.44	74	-14.56	peak
4924	47.54	-3.43	44.11	54	-9.89	AVG
7386	55.87	-0.75	55.12	74	-18.88	peak
7386	42.98	-0.75	42.23	54	-11.77	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT1+ANT2 LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	63.76	-3.63	60.13	74	-13.87	peak
4844	47.93	-3.63	44.30	54	-9.70	AVG
7266	59.15	-0.94	58.21	74	-15.79	peak
7266	44.07	-0.94	43.13	54	-10.87	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
4844	64.57	-3.63	60.94	74	-13.06	peak
4844	48.74	-3.63	45.11	54	-8.89	AVG
7266	59.24	-0.94	58.30	74	-15.70	peak
7266	45.35	-0.94	44.41	54	-9.59	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

ANT1+ANT2 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	62.82	-3.51	59.31	74	-14.69	peak
4874	46.99	-3.51	43.48	54	-10.52	AVG
7311	58.74	-0.82	57.92	74	-16.08	peak
7311	43.72	-0.82	42.90	54	-11.10	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	62.33	-3.51	58.82	74	-15.18	peak
4874	46.45	-3.51	42.94	54	-11.06	AVG
7311	56.64	-0.82	55.82	74	-18.18	peak
7311	43.37	-0.82	42.55	54	-11.45	AVG

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

ANT1+ANT2 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	62.25	-3.43	58.82	74	-15.18	peak
4904	47.94	-3.43	44.51	54	-9.49	AVG
7356	56.39	-0.75	55.64	74	-18.36	peak
7356	43.94	-0.75	43.19	54	-10.81	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	61.98	-3.43	58.55	74	-15.45	peak
4904	45.52	-3.43	42.09	54	-11.91	AVG
7356	56.39	-0.75	55.64	74	-18.36	peak
7356	42.19	-0.75	41.44	54	-12.56	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.

Restricted bands around fundamental frequency (Radiated)

Operation Mode:

ANT 2 802.11b 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	56.44	-5.81	50.63	74	-23.37	peak
2390	/	-5.81	/	54	/	AVG
2399	64.89	-5.84	59.05	74	-14.95	peak
2399	49.57	-5.84	43.73	54	-10.27	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	57.05	-5.81	51.24	74	-22.76	peak
2390	/	-5.81	/	54	/	AVG
2399	62.25	-5.84	56.41	74	-17.59	peak
2399	46.33	-5.84	40.49	54	-13.51	AVG

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

Operation Mode: ANT2 802.11b 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	56.06	-5.65	50.41	74	-23.59	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	56.38	-5.65	50.73	74	-23.27	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.						

Operation Mode: ANT2 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	58.51	-5.81	52.70	74	-21.30	peak
2390	/	-5.81	/	54	/	AVG
2399	61.71	-5.84	55.87	74	-18.13	peak
2399	47.41	-5.84	41.57	54	-12.43	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	55.90	-5.81	50.09	74	-23.91	peak
2390	/	-5.81	/	54	/	AVG
2399	63.14	-5.84	57.30	74	-16.70	peak
2399	46.27	-5.84	40.43	54	-13.57	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode: ANT2 802.11g 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	56.38	-5.65	50.73	74	-23.27	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	57.30	-5.65	51.65	74	-22.35	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.						

Operation Mode: ANT1+ANT2 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	56.82	-5.81	51.01	74	-22.99	peak
2390	/	-5.81	/	54	/	AVG
2399	62.65	-5.84	56.81	74	-17.19	peak
2399	48.22	-5.84	42.38	54	-11.62	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	57.43	-5.81	51.62	74	-22.38	peak
2390	/	-5.81	/	54	/	AVG
2399	60.89	-5.84	55.05	74	-18.95	peak
2399	47.82	-5.84	41.98	54	-12.02	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Operation Mode: ANT1+ANT2 802.11n/H20 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	57.50	-5.65	51.85	74	-22.15	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	56.55	-5.65	50.90	74	-23.10	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.						

Operation Mode: ANT1+ANT2 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2390	57.51	-5.81	51.70	74	-22.30	peak
2390	/	-5.81	/	54	/	AVG
2399	63.81	-5.84	57.97	74	-16.03	peak
2399	46.28	-5.84	40.44	54	-13.56	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	58.05	-5.81	52.24	74	-21.76	peak
2390	/	-5.81	/	54	/	AVG
2399	61.50	-5.84	55.66	74	-18.34	peak
2399	45.96	-5.84	40.12	54	-13.88	AVG

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

Operation Mode: ANT1+ANT2 802.11n/H40 Mode TX CH High (2452MHz)

Horizontal

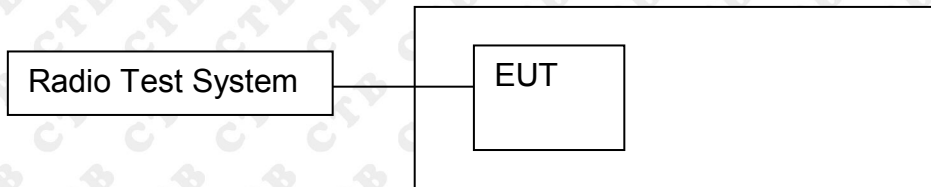
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.96	-5.65	51.31	74	-22.69	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.45	-5.65	49.80	74	-24.20	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.						

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

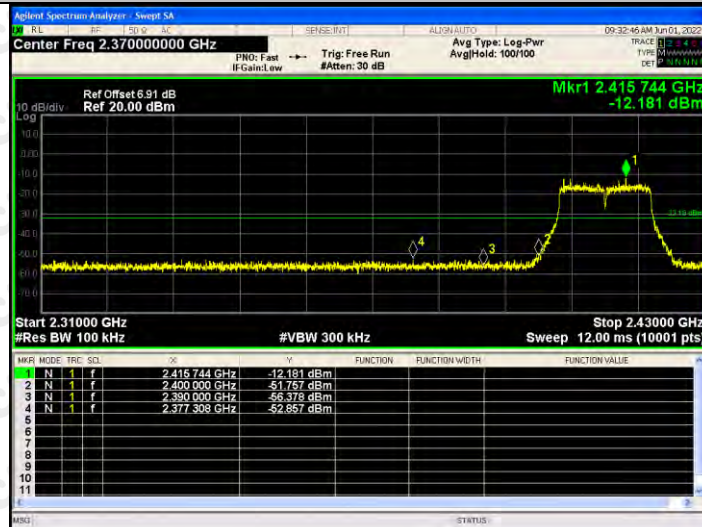
8.4 Test Result

ANT1:

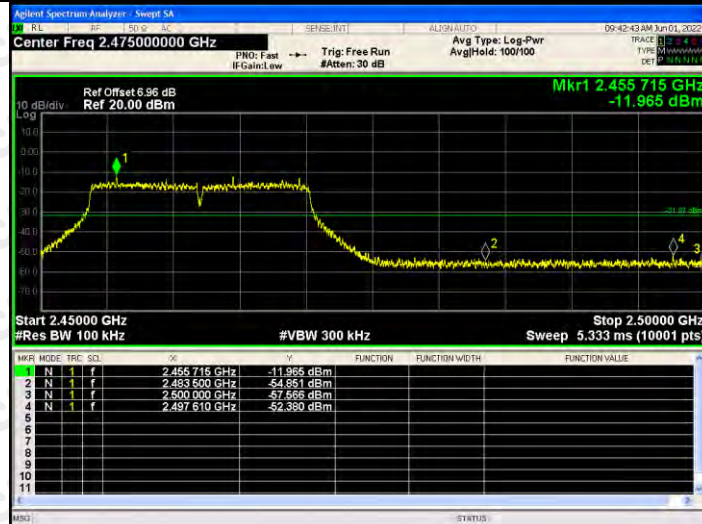


BAND EDGE Graphs

802.11g/LCH

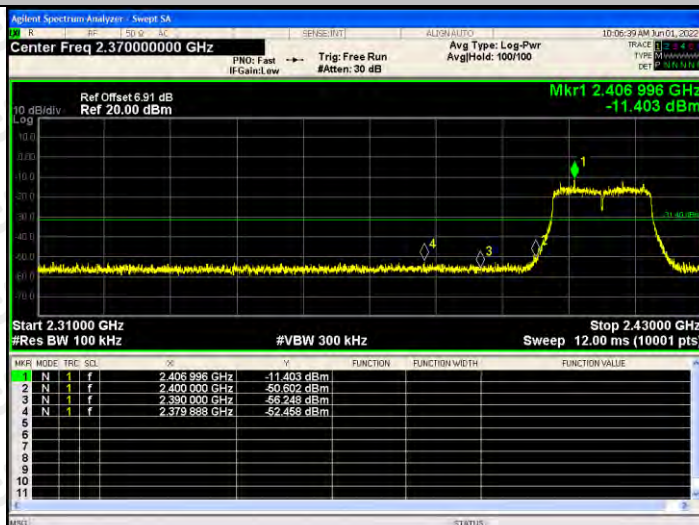


802.11g/HCH

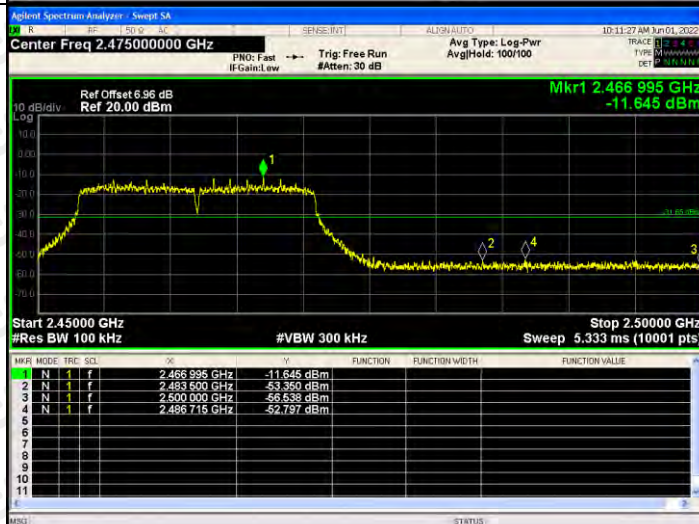


BAND EDGE Graphs

802.11n(HT20)/L
CH



802.11n(HT20)/H
CH

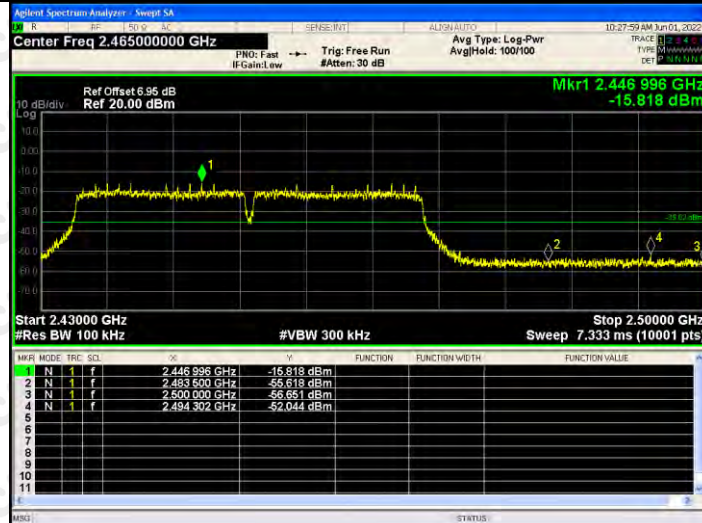


BAND EDGE Graphs

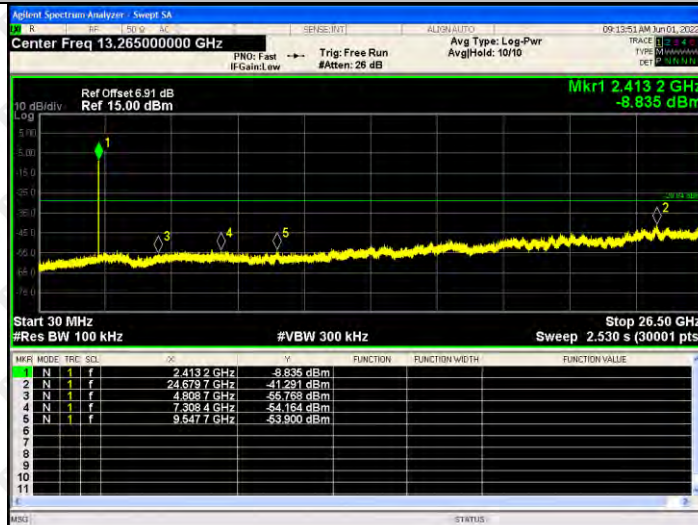
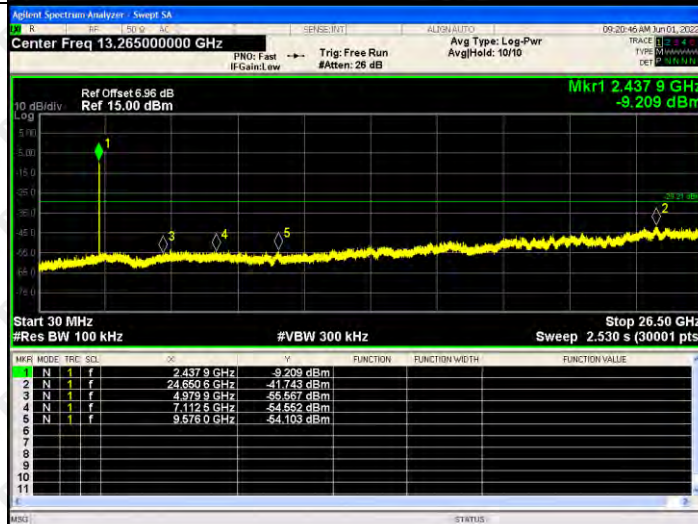
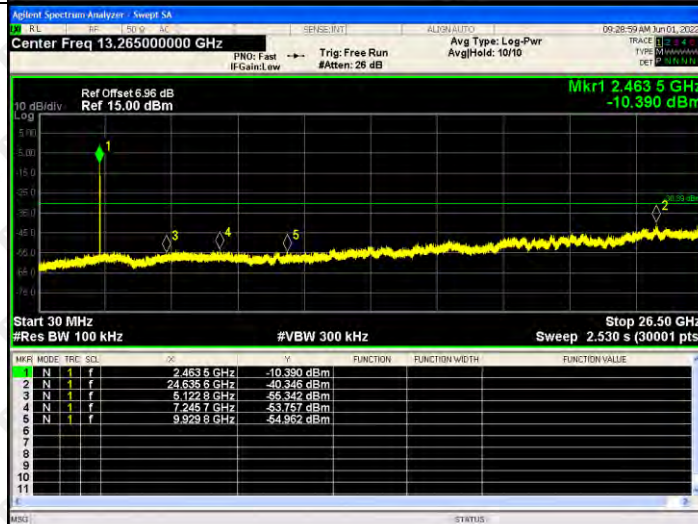
802.11n(HT40)/L
CH



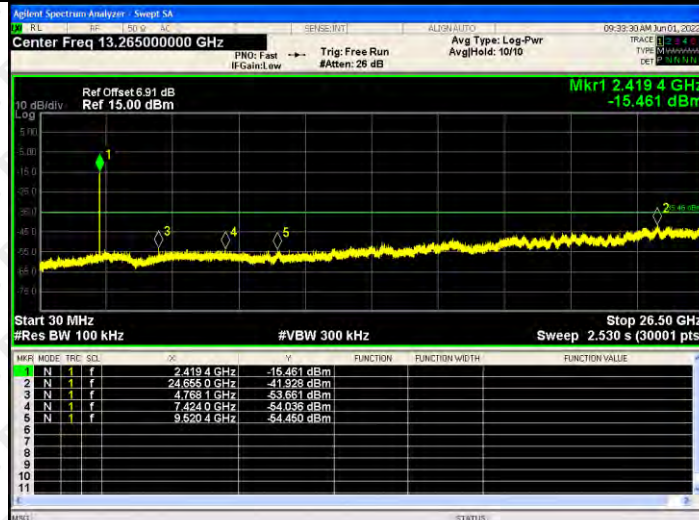
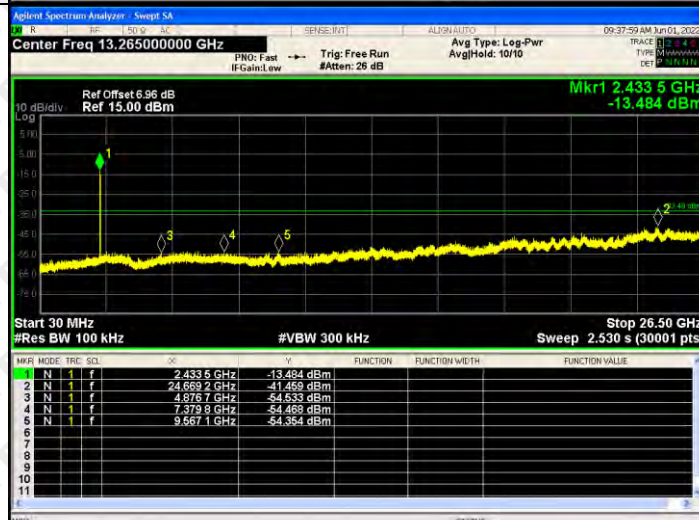
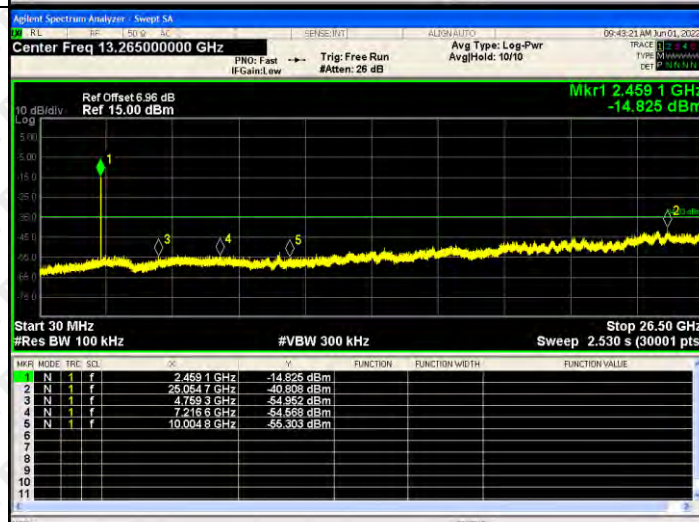
802.11n(HT40)/H
CH



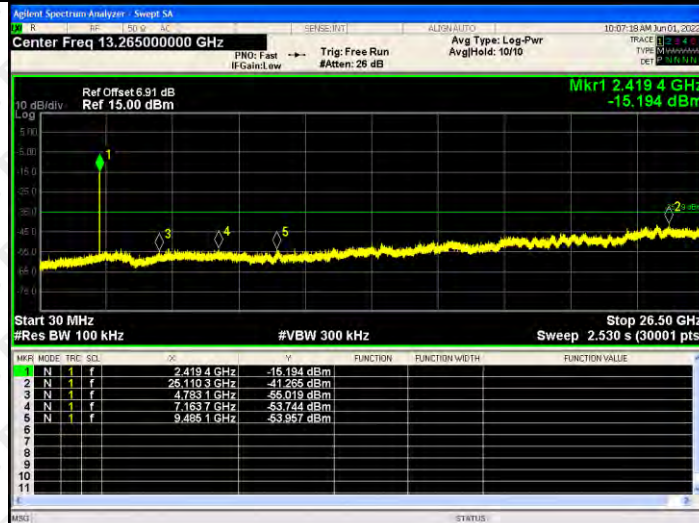
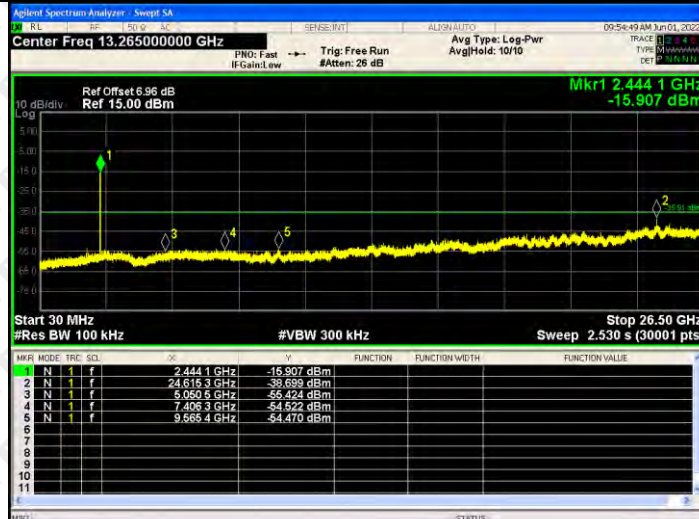
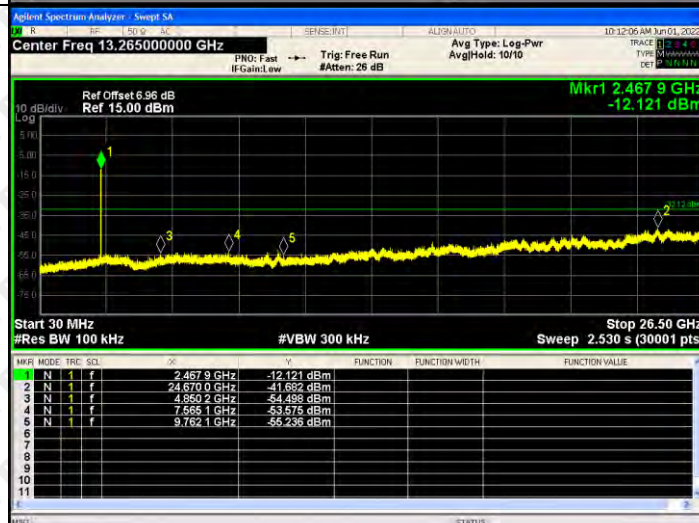
RF Conducted Spurious Emissions Graphs

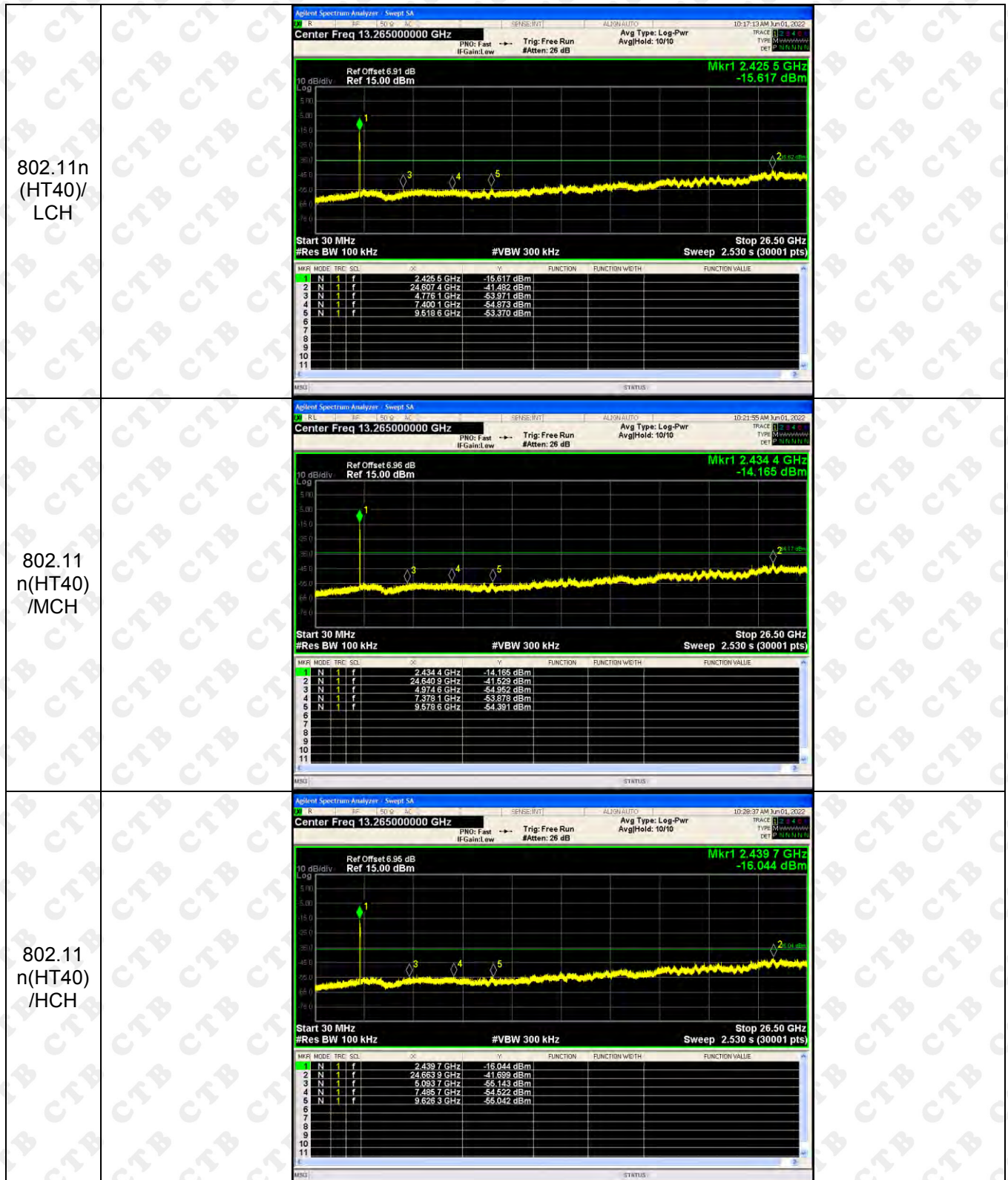
802.11b
/LCH

802.11b
/MCH

802.11b
/HCH


RF Conducted Spurious Emissions Graphs

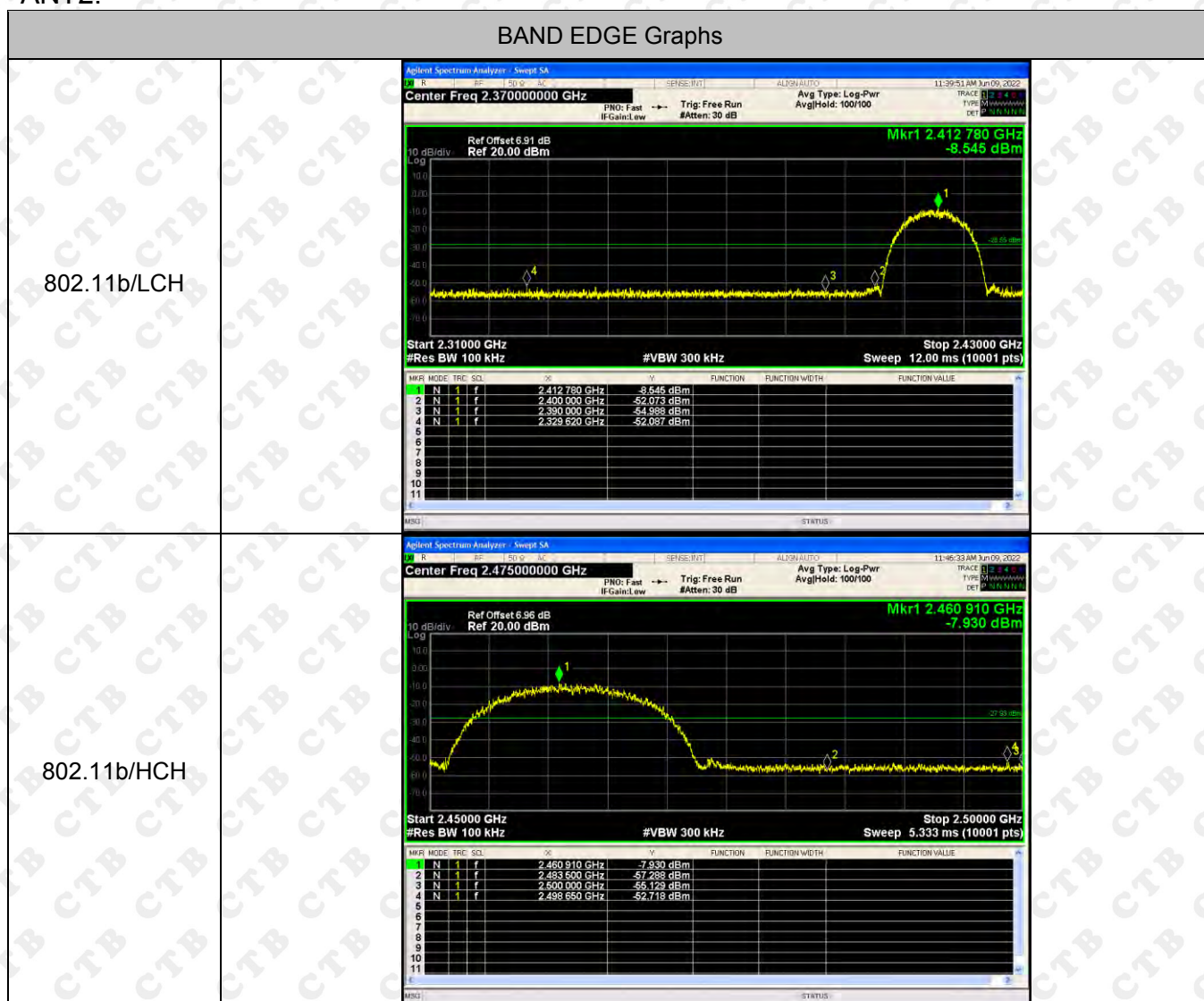
802.11g
/LCH

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


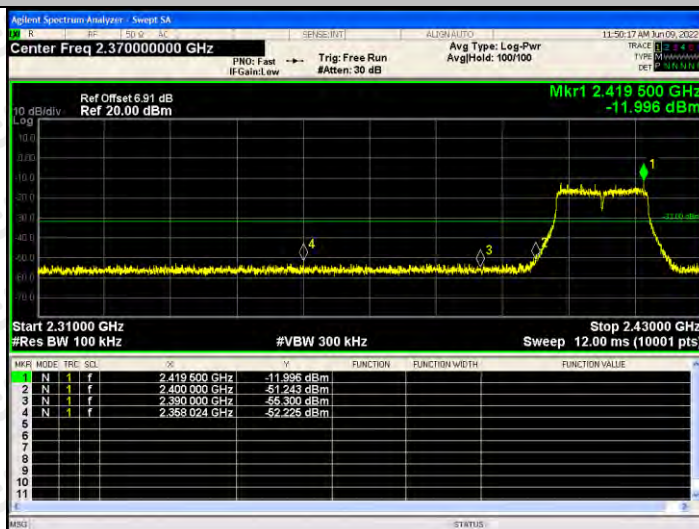


ANT2:

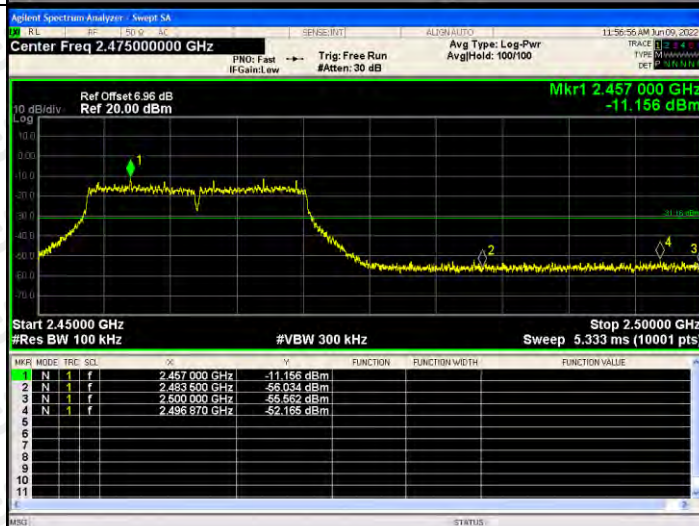


BAND EDGE Graphs

802.11g/LCH

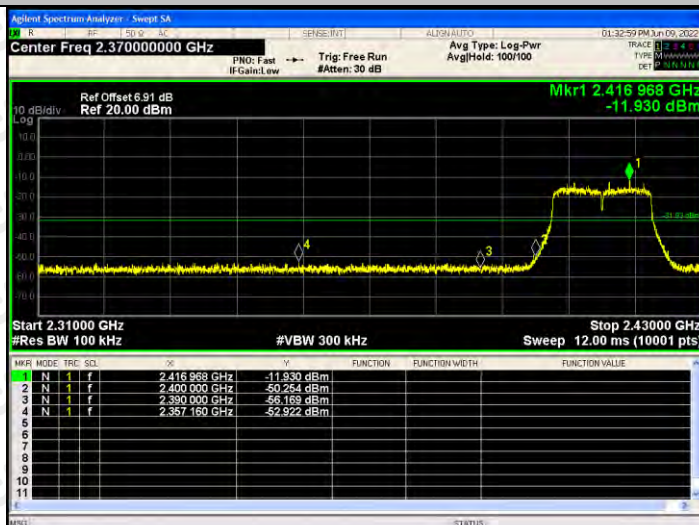


802.11g/HCH

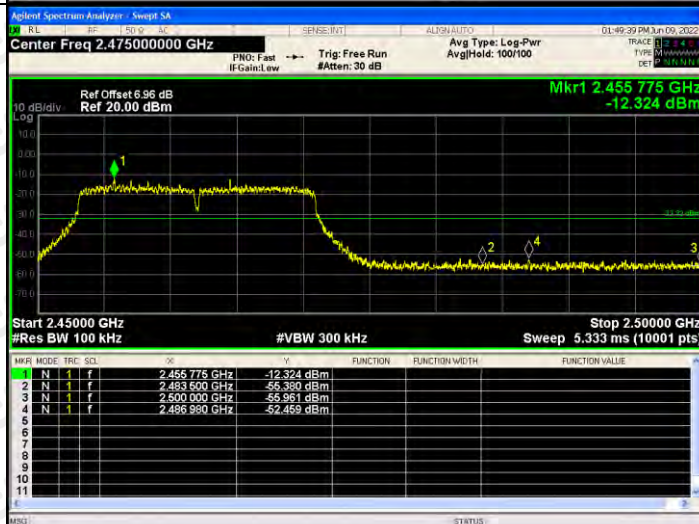


BAND EDGE Graphs

802.11n(HT20)/L
CH

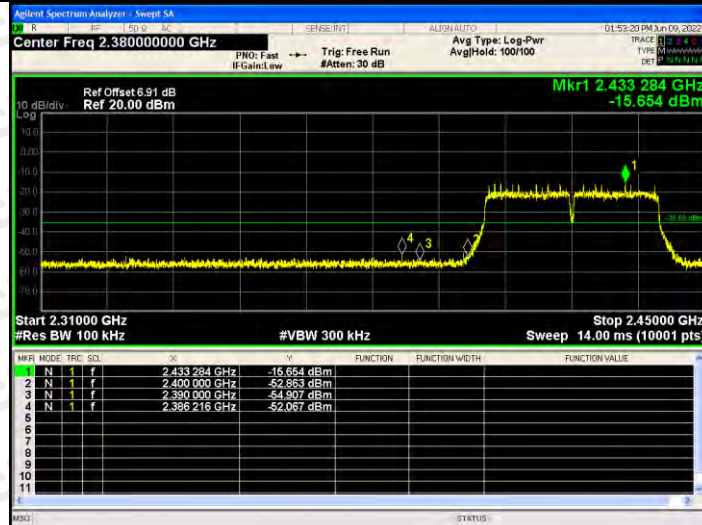


802.11n(HT20)/H
CH

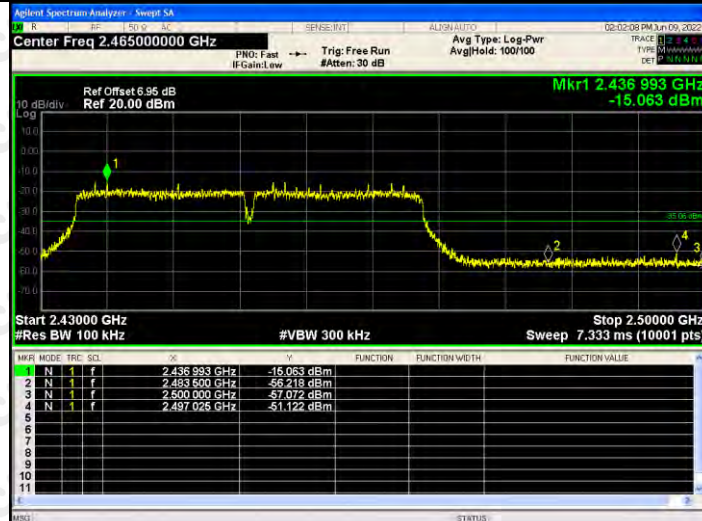


BAND EDGE Graphs

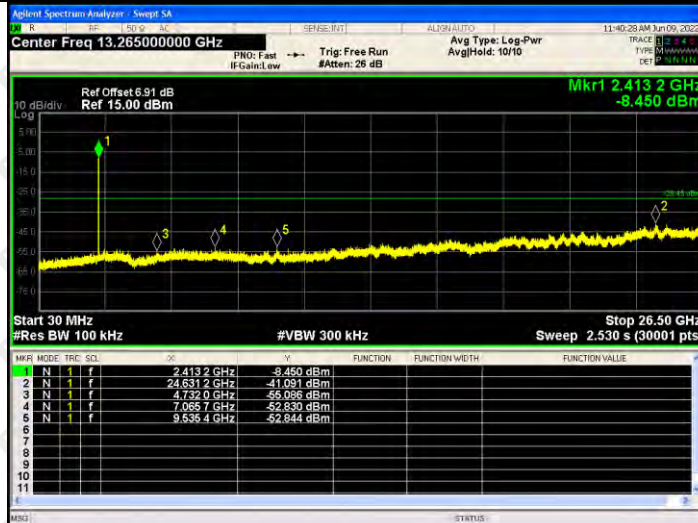
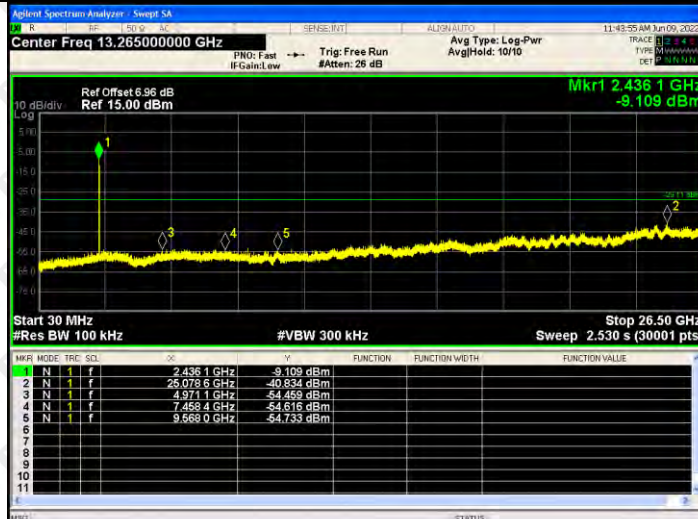
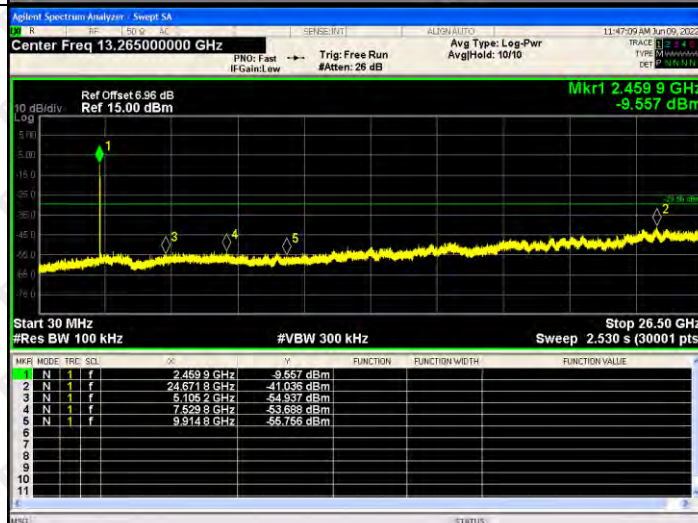
802.11n(HT40)/L
CH



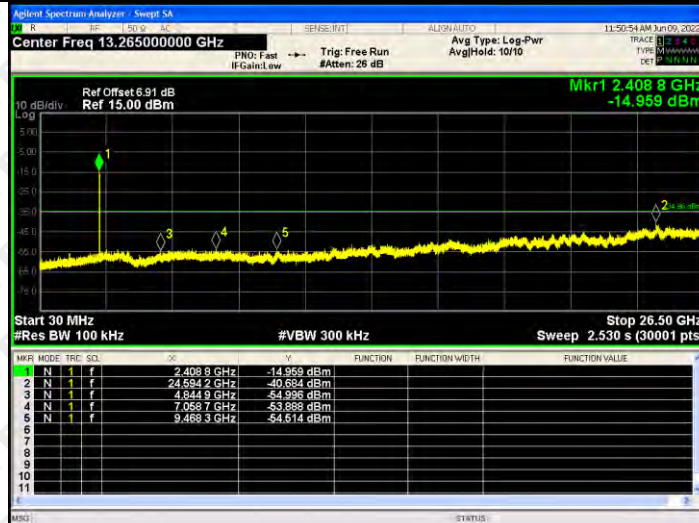
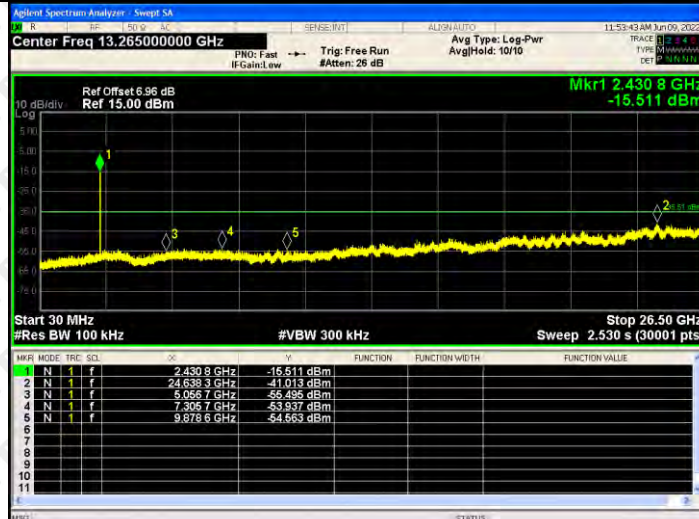
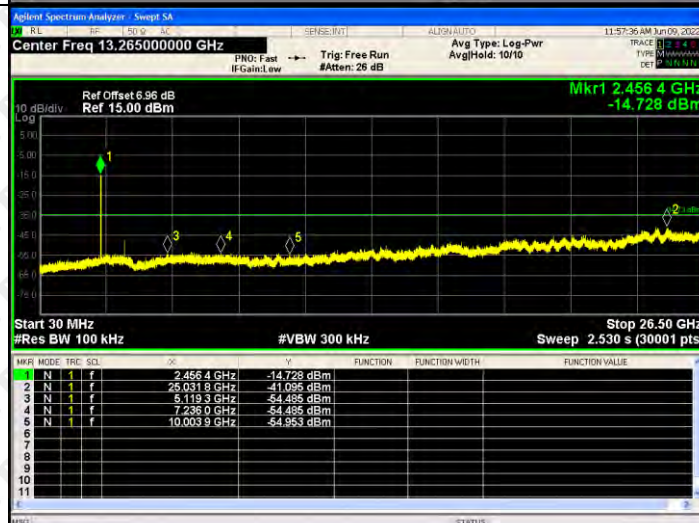
802.11n(HT40)/H
CH



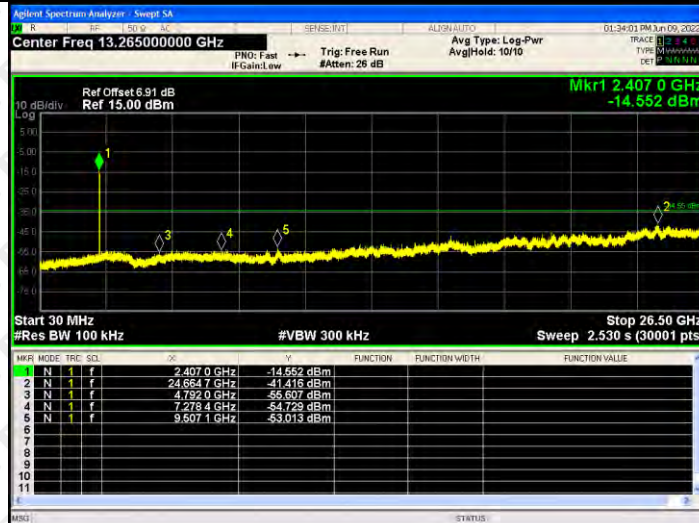
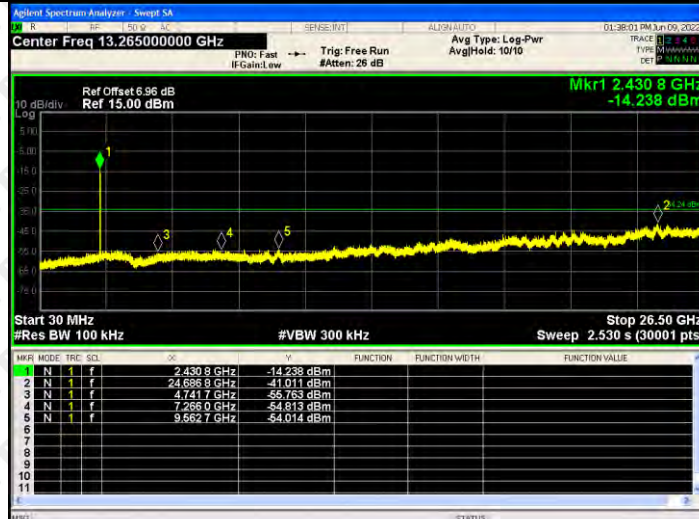
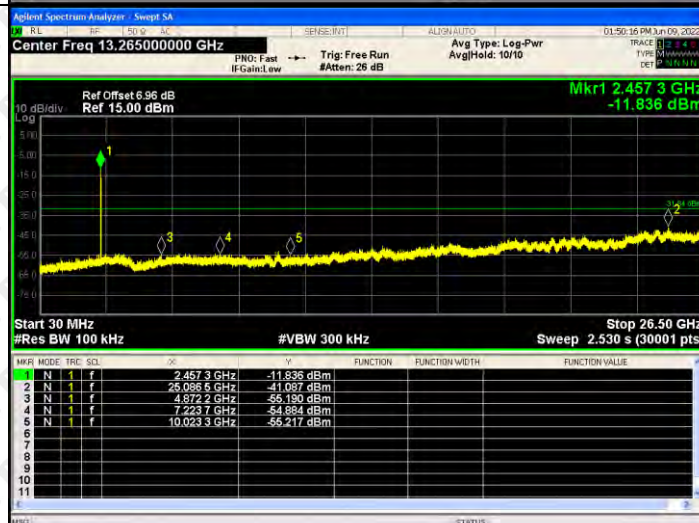
RF Conducted Spurious Emissions Graphs

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


RF Conducted Spurious Emissions Graphs

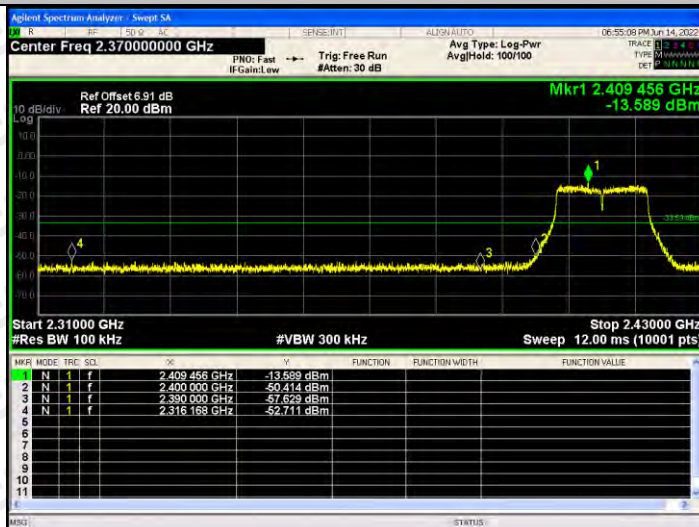


ANT3:

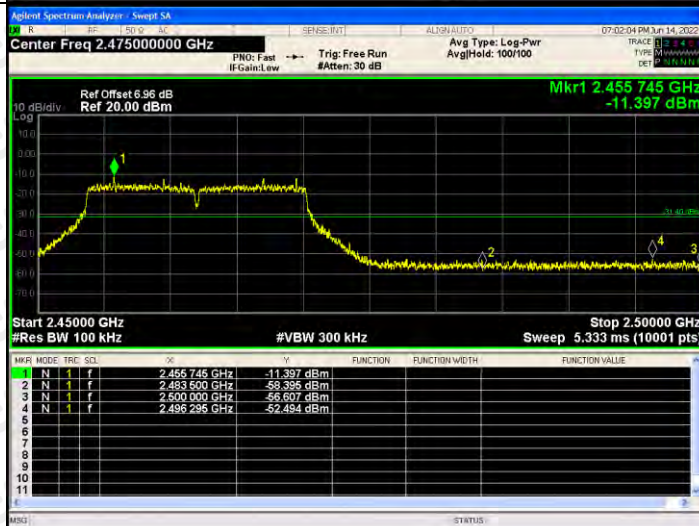


BAND EDGE Graphs

802.11g/LCH

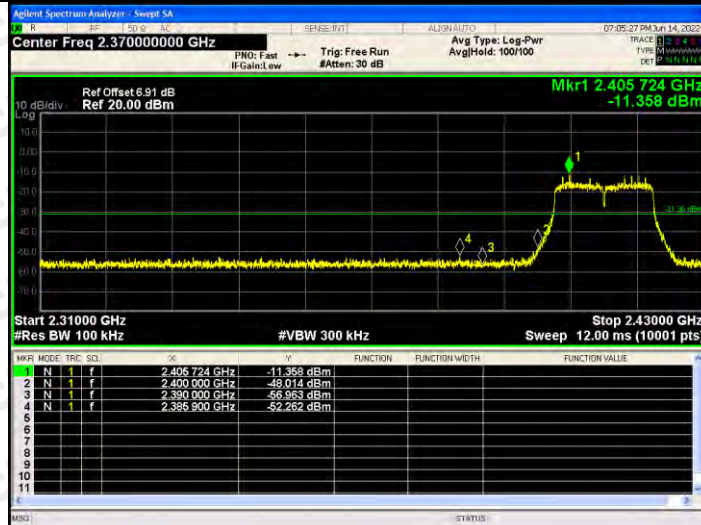


802.11g/HCH

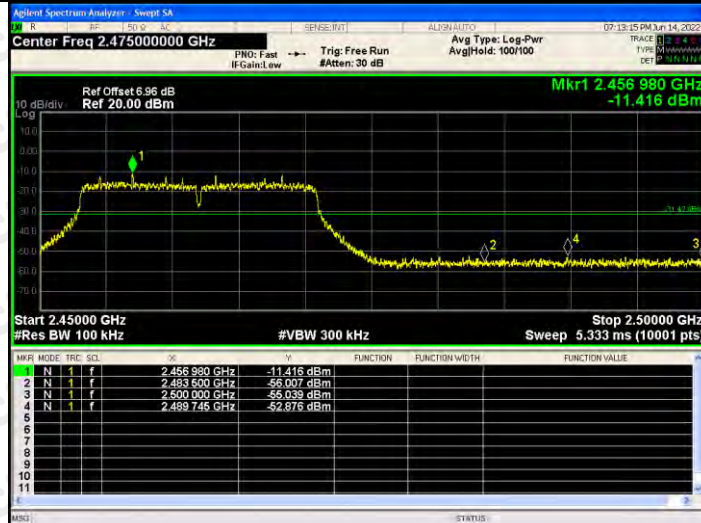


BAND EDGE Graphs

802.11n(HT20)/L
CH

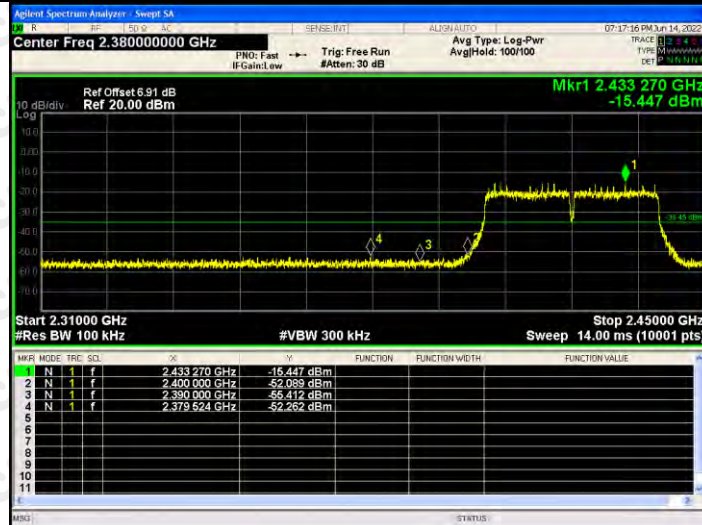


802.11n(HT20)/H
CH

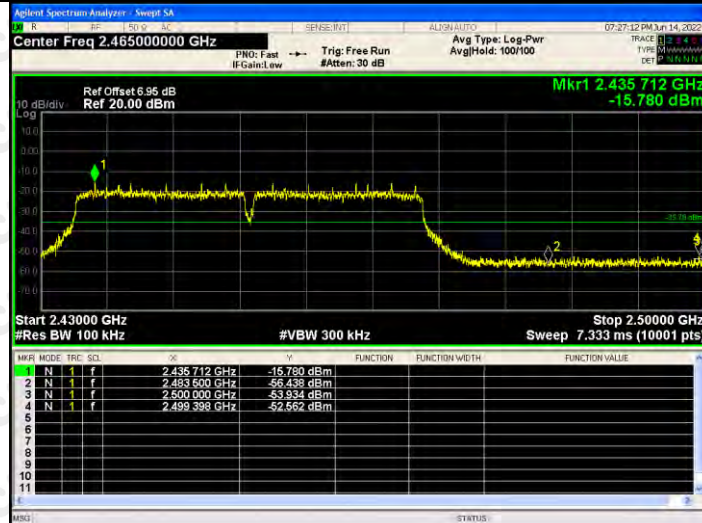


BAND EDGE Graphs

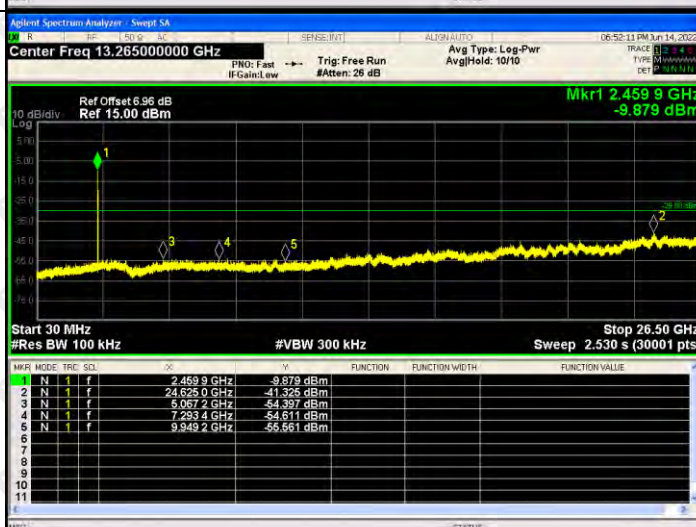
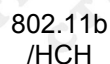
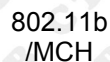
802.11n(HT40)/L
CH



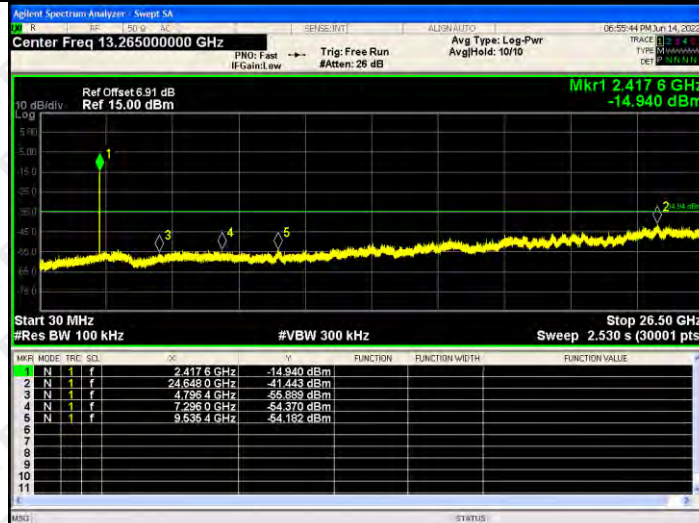
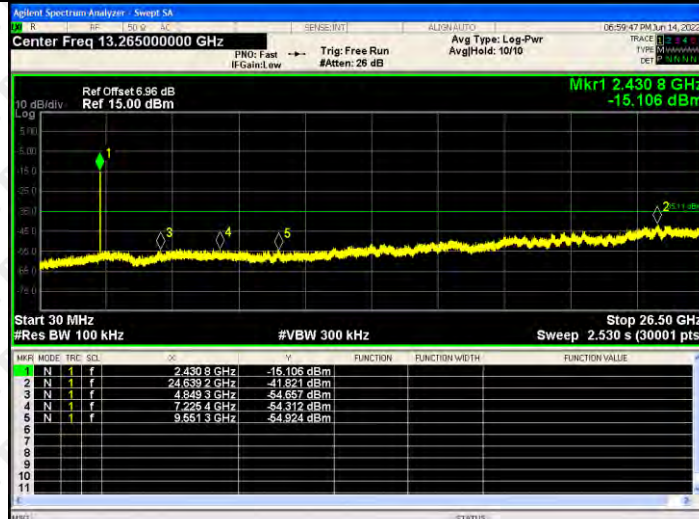
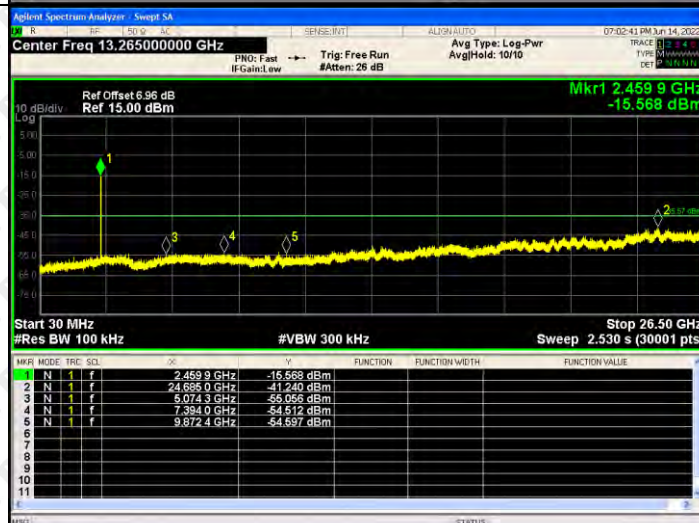
802.11n(HT40)/H
CH



802.11b
/LCH



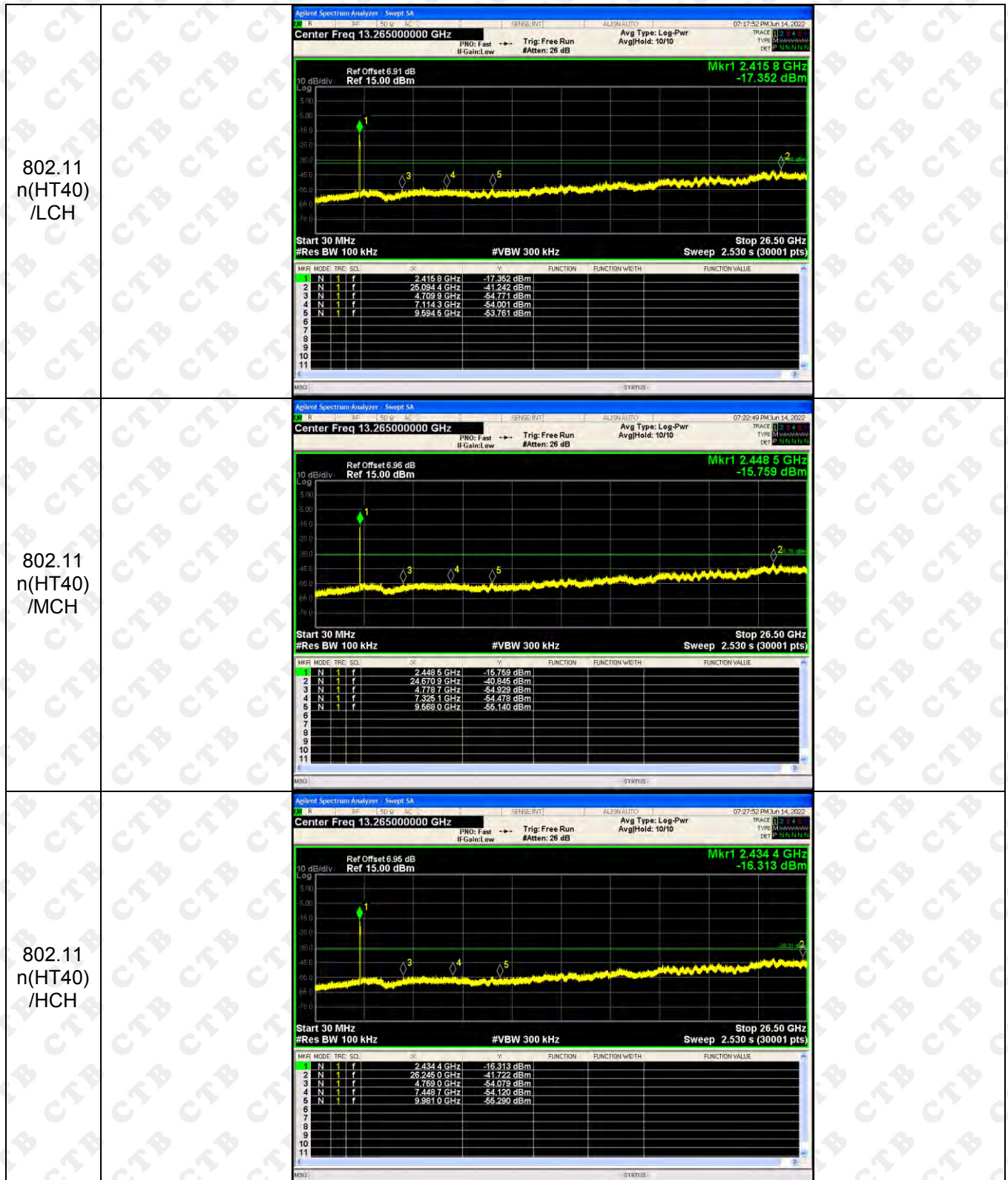
RF Conducted Spurious Emissions Graphs

802.11g
/LCH

802.11g
/MCH

802.11g
/HCH


RF Conducted Spurious Emissions Graphs

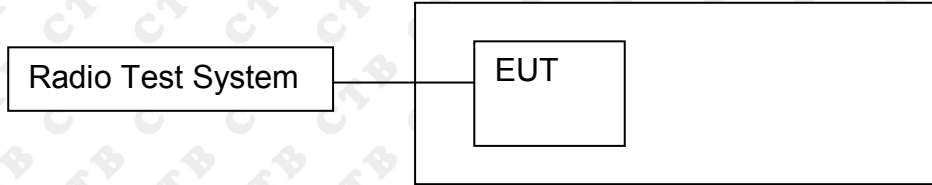


RF Conducted Spurious Emissions Graphs



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)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 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: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

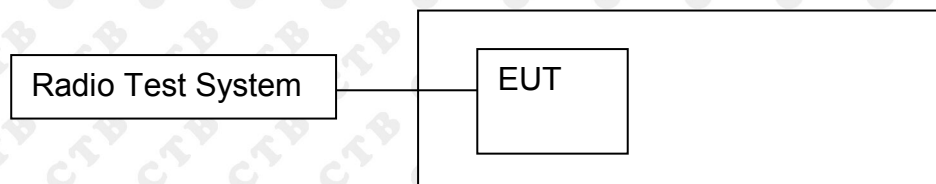
Mode	Channel.	Maximum Output Power [dBm] ant 1	Maximum Output Power [dBm] ant 2	Total Power Conducted Output Power(PK)	Limit[dBm]
802.11b	LCH	7.621	7.736	/	30
	MCH	7.46	7.413	/	30
	HCH	7.637	7.401	/	30
802.11g	LCH	6.271	6.763	/	30
	MCH	6.248	6.422	/	30
	HCH	6.554	6.87	/	30
802.11n(H T20)	LCH	6.565	6.598	9.592	30
	MCH	6.461	6.486	9.484	30
	HCH	6.554	6.364	9.470	30
802.11n(H T40)	LCH	5.19	5.377	8.295	30
	MCH	6.657	5.632	9.185	30
	HCH	5.34	5.505	8.433	30

ANT3

Mode	Channel.	Peak Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	7.621	30	PASS
	MCH	7.913	30	PASS
	HCH	7.521	30	PASS
802.11g	LCH	6.625	30	PASS
	MCH	6.688	30	PASS
	HCH	6.551	30	PASS
802.11n(HT20)	LCH	6.639	30	PASS
	MCH	6.387	30	PASS
	HCH	6.484	30	PASS
802.11n(HT40)	LCH	5.358	30	PASS
	MCH	5.467	30	PASS
	HCH	5.242	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

ANT1:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.71	500	PASS
	MCH	10.459	500	PASS
	HCH	10.275	500	PASS
802.11g	LCH	16.365	500	PASS
	MCH	16.064	500	PASS
	HCH	16.415	500	PASS
802.11n(HT20)	LCH	17.062	500	PASS
	MCH	17.318	500	PASS
	HCH	17.157	500	PASS
802.11n(HT40)	LCH	35.233	500	PASS
	MCH	35.561	500	PASS
	HCH	35.707	500	PASS

ANT2:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.348	500	PASS
	MCH	10.608	500	PASS
	HCH	10.114	500	PASS
802.11g	LCH	16.363	500	PASS
	MCH	16.37	500	PASS
	HCH	16.382	500	PASS
802.11n(HT20)	LCH	17.023	500	PASS
	MCH	17.556	500	PASS
	HCH	17.346	500	PASS
802.11n(HT40)	LCH	35.778	500	PASS
	MCH	35.411	500	PASS
	HCH	35.448	500	PASS

ANT3:

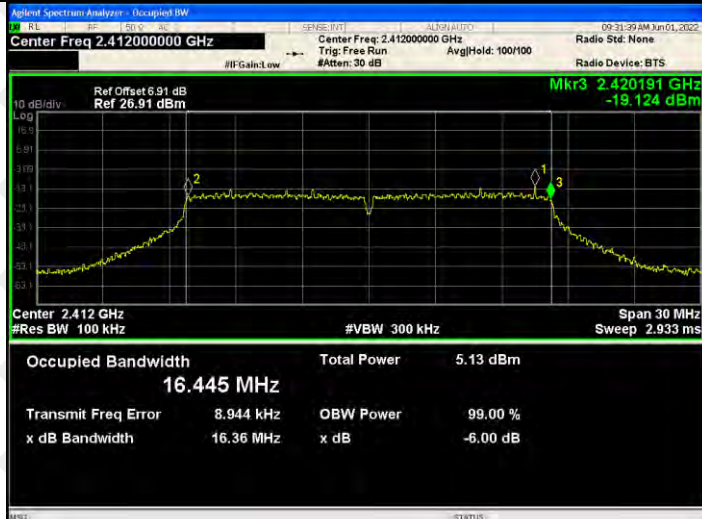
Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.572	500	PASS
	MCH	9.698	500	PASS
	HCH	9.59	500	PASS
802.11g	LCH	16.348	500	PASS
	MCH	16.343	500	PASS
	HCH	16.378	500	PASS
802.11n(HT20)	LCH	17.168	500	PASS
	MCH	17.645	500	PASS
	HCH	17.572	500	PASS
802.11n(HT40)	LCH	35.685	500	PASS
	MCH	35.586	500	PASS
	HCH	36.049	500	PASS

ANT1:

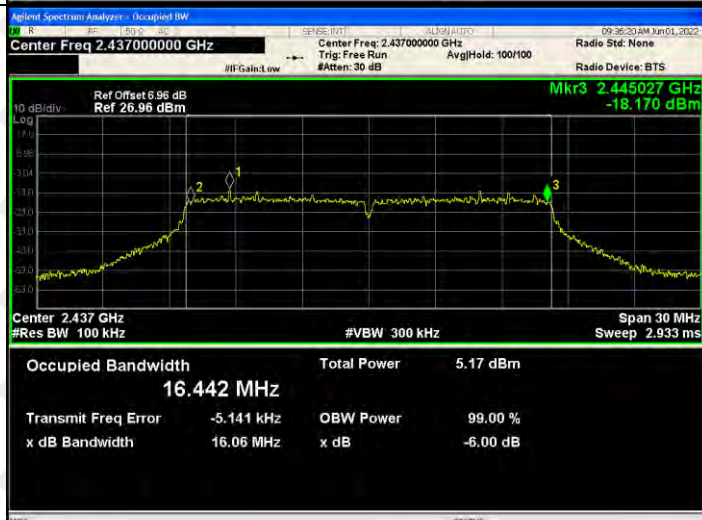
Test Graph:



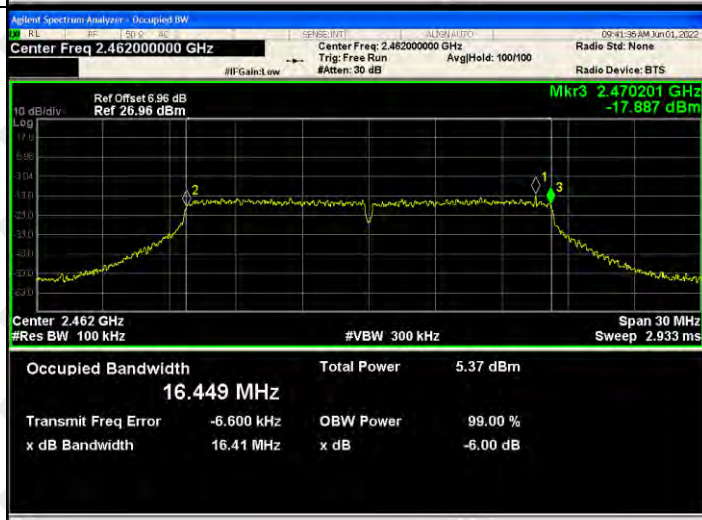
802.11g/LCH

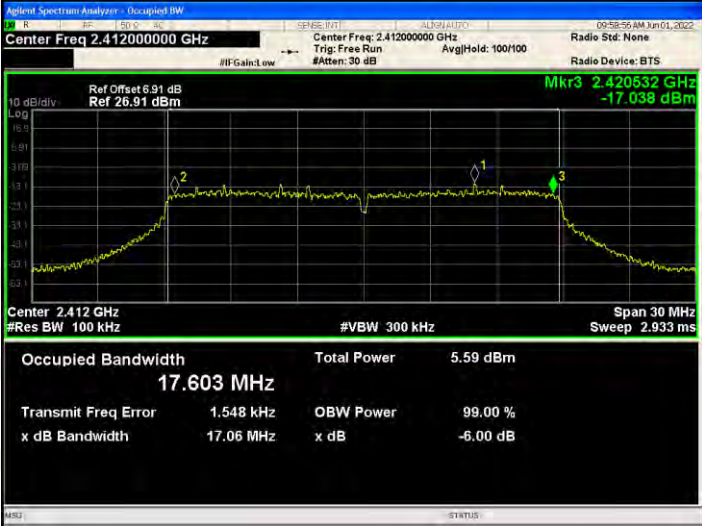
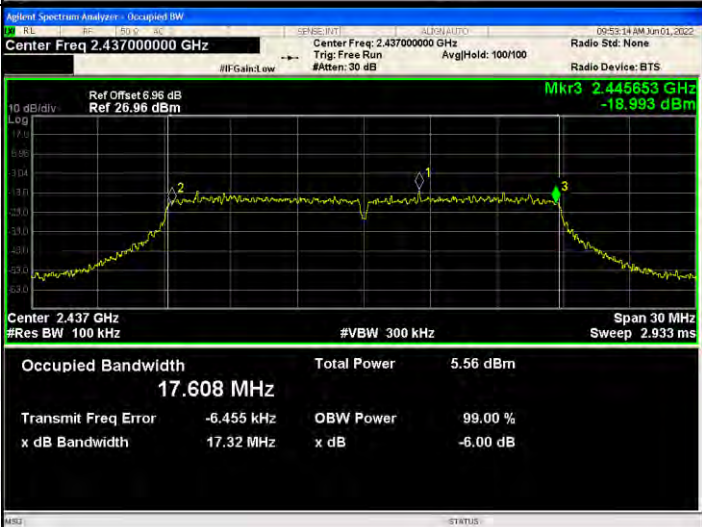


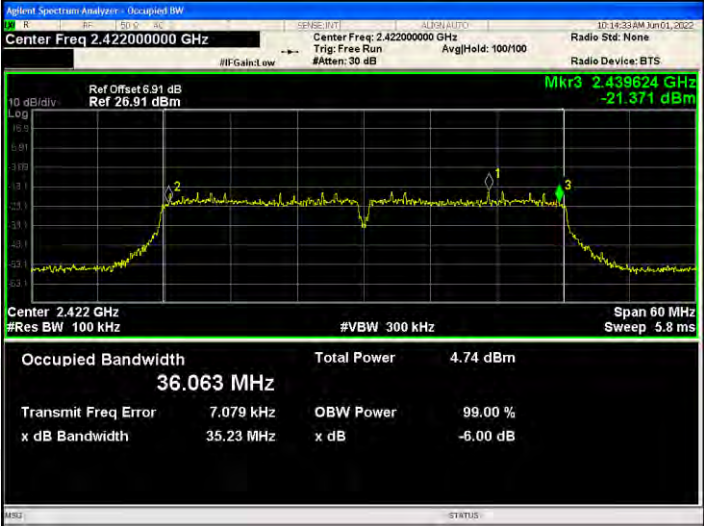
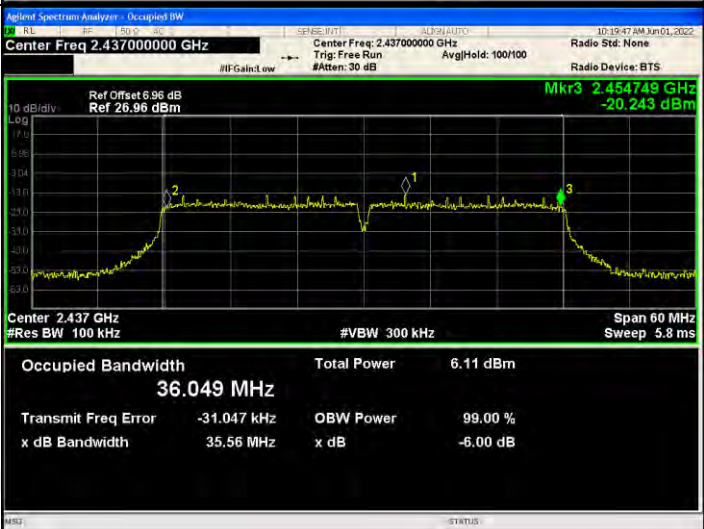
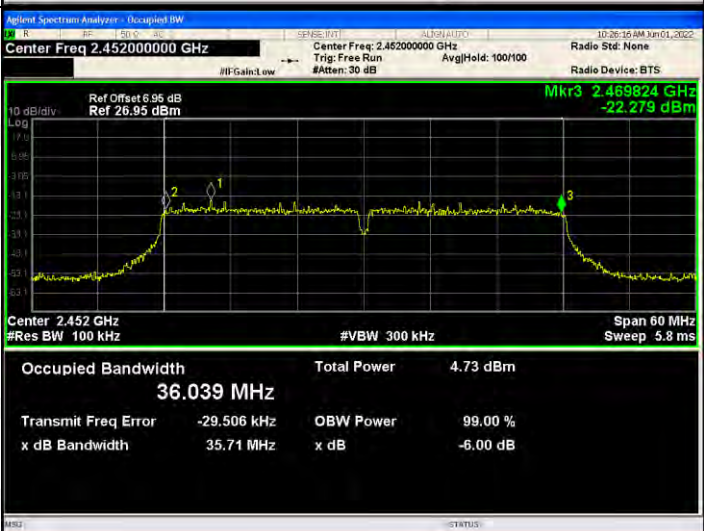
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.41200000 GHz Ref Offset: 6.91 dB Ref: 26.91 dBm Mkr3: 2.420532 GHz -17.038 dBm Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms Occupied Bandwidth: 17.603 MHz Total Power: 5.59 dBm Transmit Freq Error: 1.548 kHz OBW Power: 99.00 % x dB Bandwidth: 17.06 MHz x dB: -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.43700000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3: 2.445653 GHz -18.993 dBm Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms Occupied Bandwidth: 17.608 MHz Total Power: 5.56 dBm Transmit Freq Error: -6.455 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: 2.46200000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3: 2.470677 GHz -19.507 dBm Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms Occupied Bandwidth: 17.603 MHz Total Power: 5.65 dBm Transmit Freq Error: -1.862 kHz OBW Power: 99.00 % x dB Bandwidth: 17.16 MHz x dB: -6.00 dB

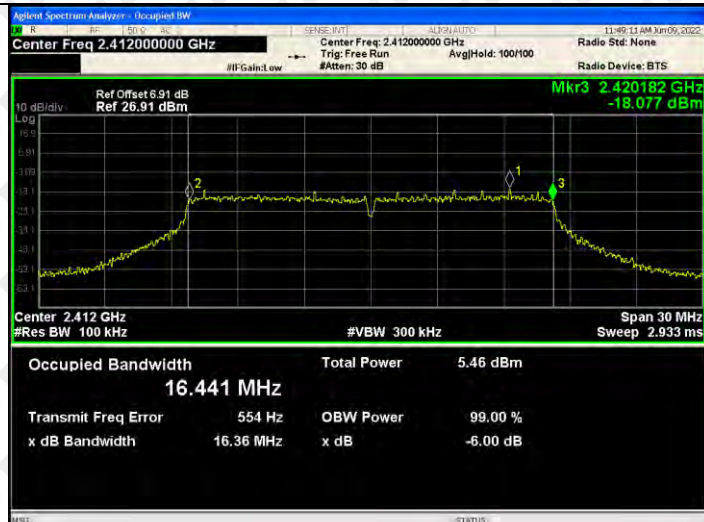
802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset: 6.91 dB Ref: 26.91 dBm Mkr3 2.439624 GHz -21.371 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.063 MHz Total Power 4.74 dBm Transmit Freq Error 7.079 kHz OBW Power 99.00 % x dB Bandwidth 35.23 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3 2.454749 GHz -20.243 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.049 MHz Total Power 6.11 dBm Transmit Freq Error -31.047 kHz OBW Power 99.00 % x dB Bandwidth 35.56 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset: 6.96 dB Ref: 26.96 dBm Mkr3 2.469824 GHz -22.279 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.039 MHz Total Power 4.73 dBm Transmit Freq Error -29.506 kHz OBW Power 99.00 % x dB Bandwidth 35.71 MHz x dB -6.00 dB

ANT2:

Test Graph:



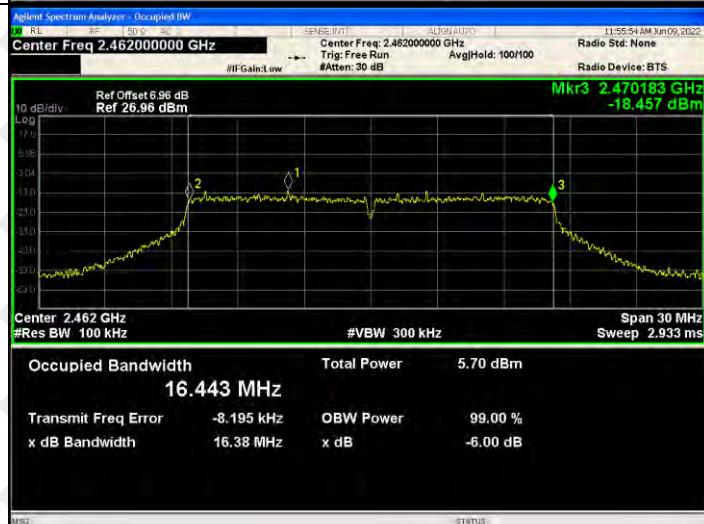
802.11g/LCH

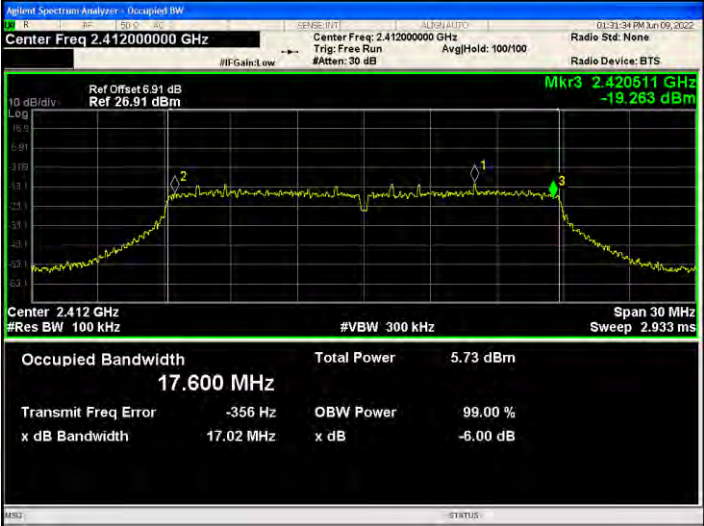
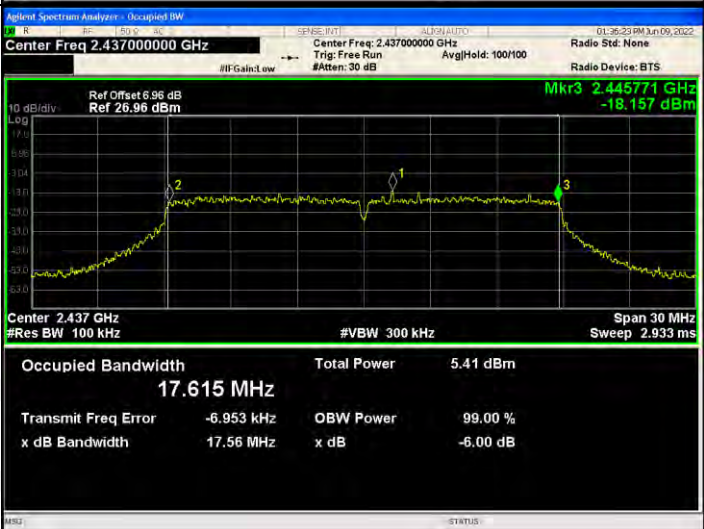
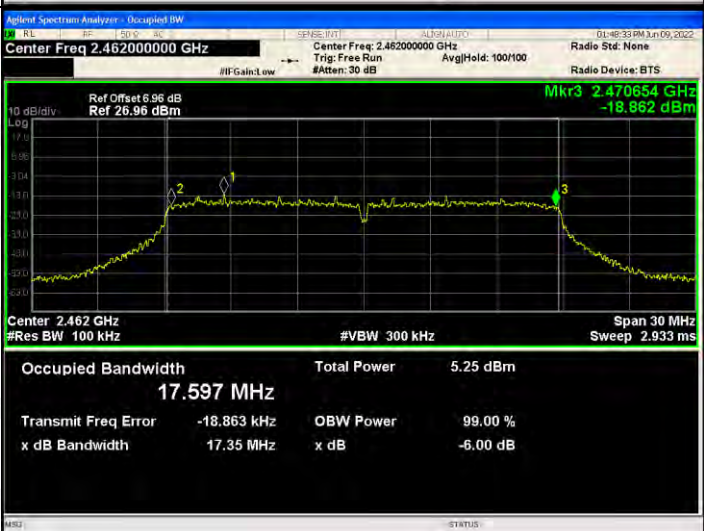


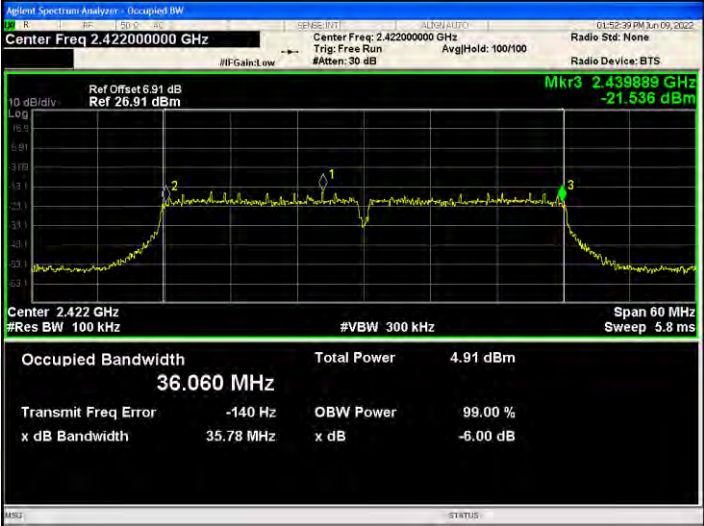
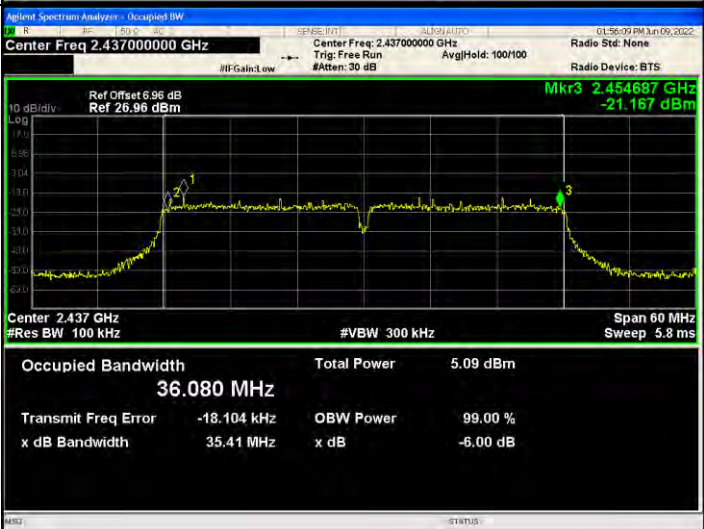
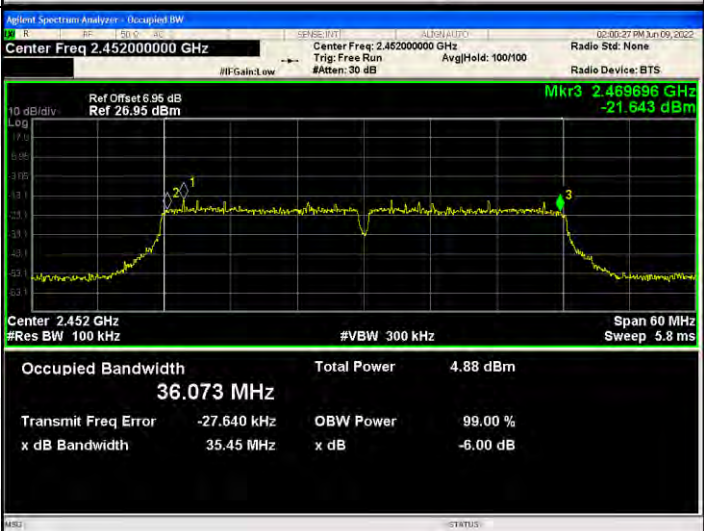
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 6.91 dB Ref 26.91 dBm Mkr3 2.420611 GHz -19.263 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.600 MHz Total Power 5.73 dBm Transmit Freq Error -356 Hz OBW Power 99.00 % x dB Bandwidth 17.02 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 6.96 dB Ref 26.96 dBm Mkr3 2.445771 GHz -18.157 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.615 MHz Total Power 5.41 dBm Transmit Freq Error -6.953 kHz OBW Power 99.00 % x dB Bandwidth 17.56 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 6.96 dB Ref 26.96 dBm Mkr3 2.470654 GHz -18.862 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.597 MHz Total Power 5.25 dBm Transmit Freq Error -18.863 kHz OBW Power 99.00 % x dB Bandwidth 17.35 MHz x dB -6.00 dB

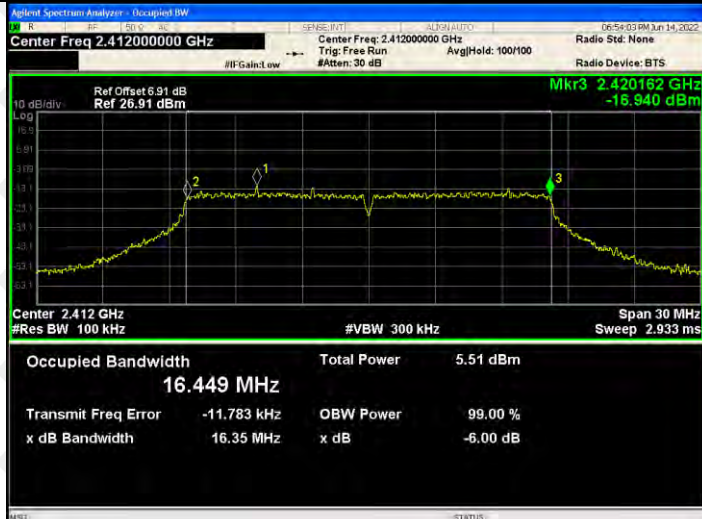
802.11n(HT40)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

ANT3:

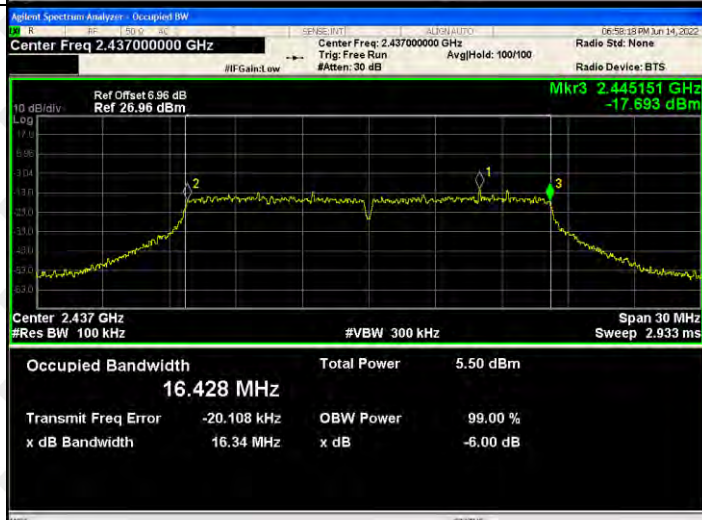
Test Graph:



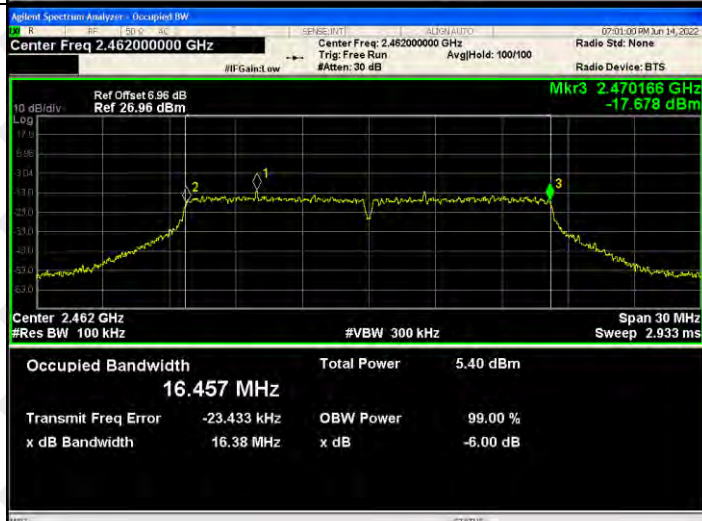
802.11g/LCH

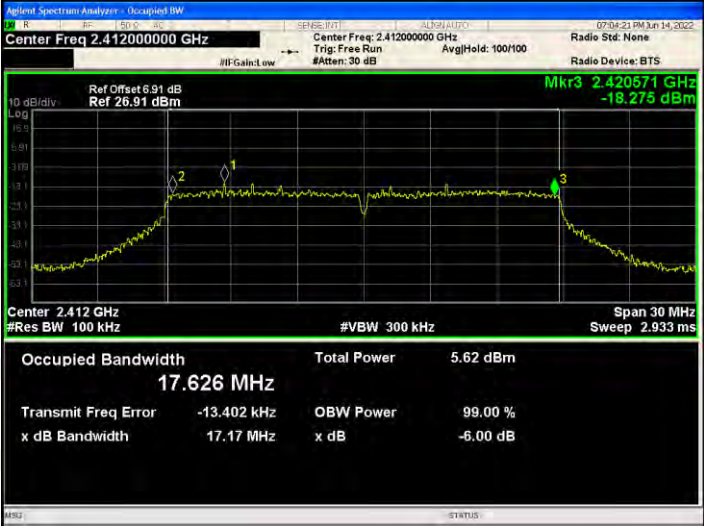
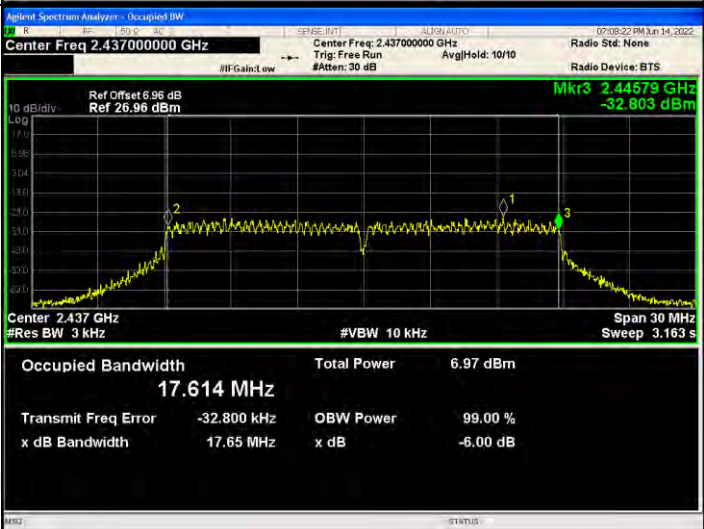
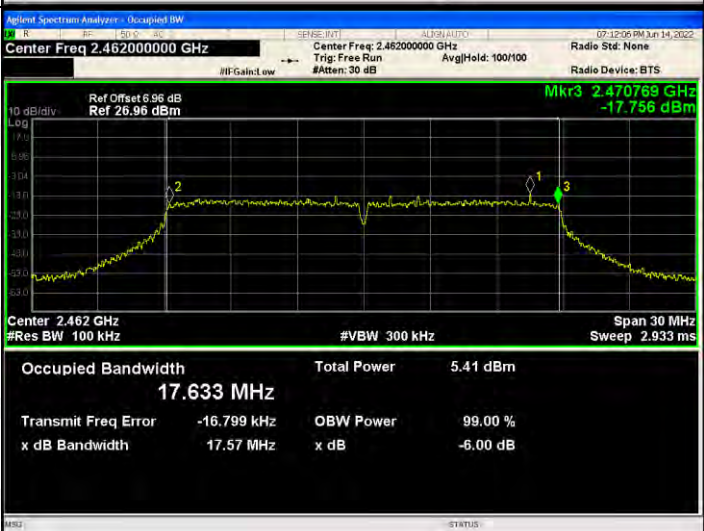


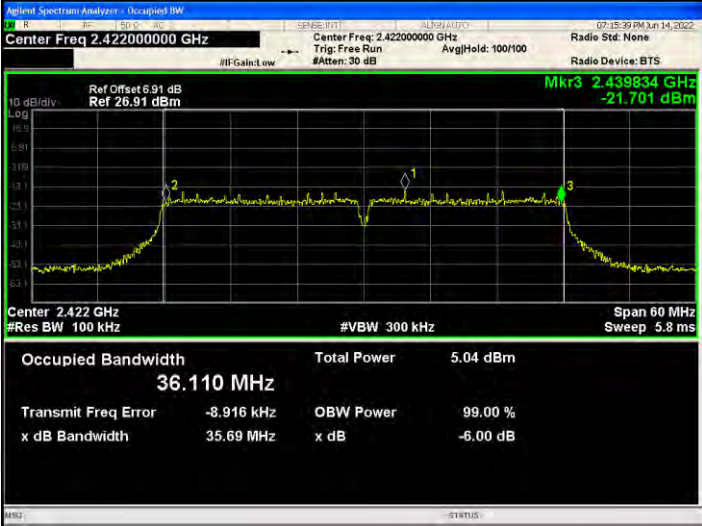
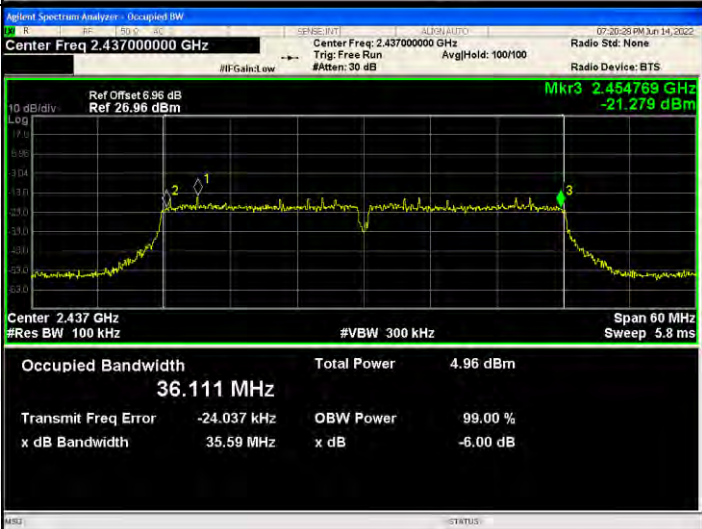
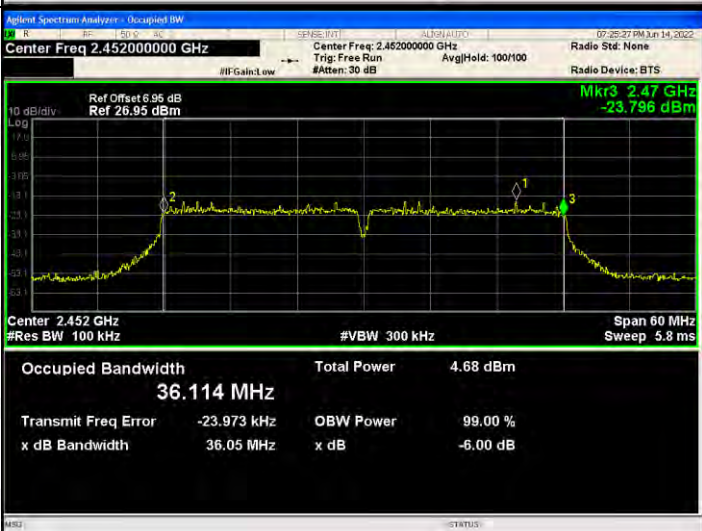
802.11g/MCH



802.11g/HCH

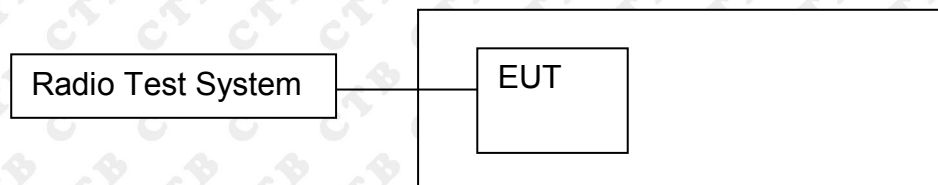


802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
802.11n(HT20)/HC H	

802.11n(HT40)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

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.

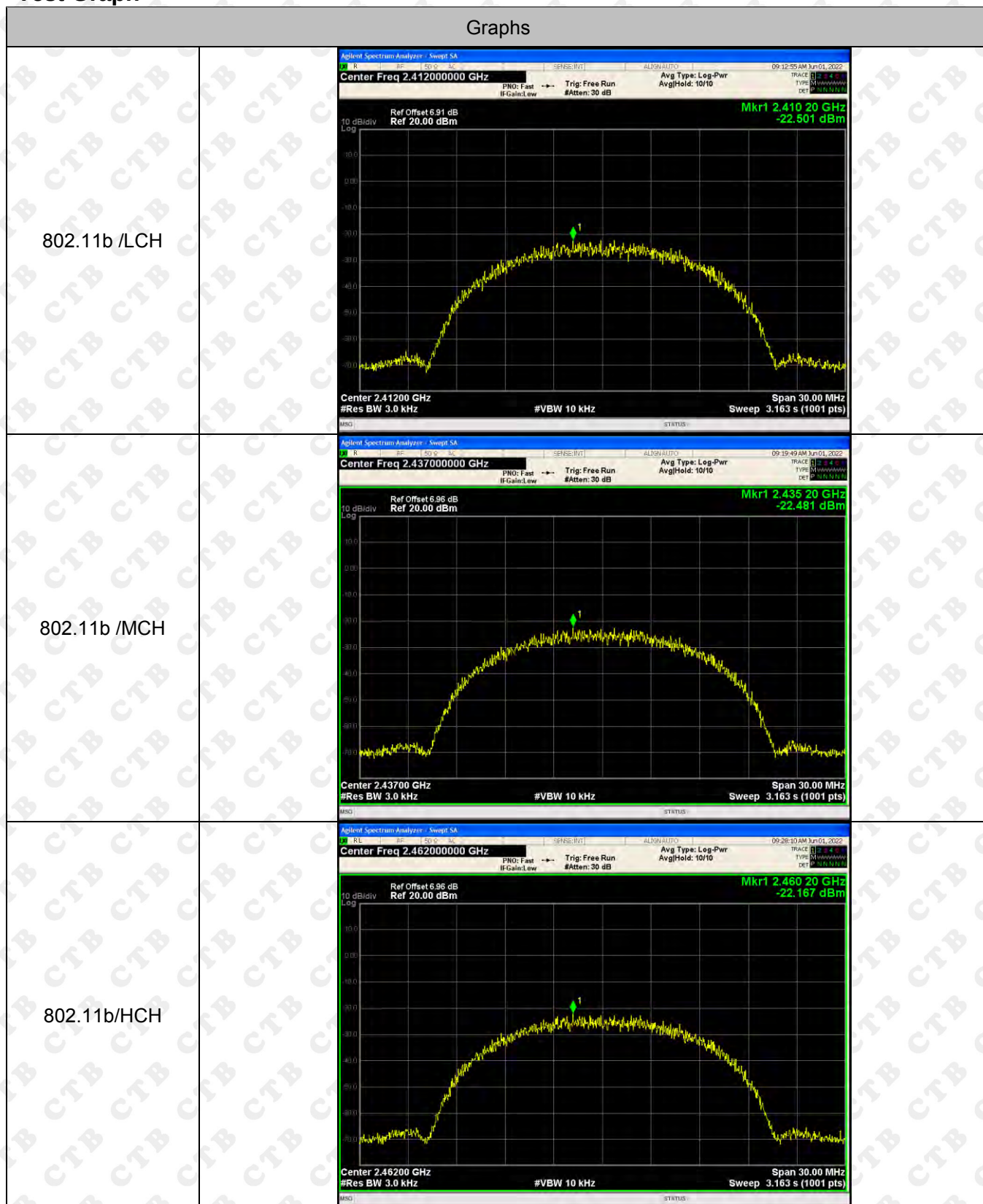
11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3KHz] ANT 1	Power Spectral Density [dBm /3KHz] ANT 2	Power Power Spectral Density [dBm /3KHz]Total	Limit(dBm)	Verdict
802.11b	LCH	-22.501	-22.009	/	8	PASS
	MCH	-22.481	-22.482	/	8	PASS
	HCH	-22.167	-22.402	/	8	PASS
802.11g	LCH	-26.595	-25.65	/	8	PASS
	MCH	-25.705	-25.691	/	8	PASS
	HCH	-25.571	-25.464	/	8	PASS
802.11n(HT20)	LCH	-25.892	-25.673	-22.537	8	PASS
	MCH	-25.965	-26.049	-23.437	8	PASS
	HCH	-25.838	-26.517	-23.365	8	PASS
802.11n(HT40)	LCH	-30.089	-23.308	-22.233	8	PASS
	MCH	-28.896	-29.752	-26.403	8	PASS
	HCH	-30.343	-30.159	-27.158	8	PASS

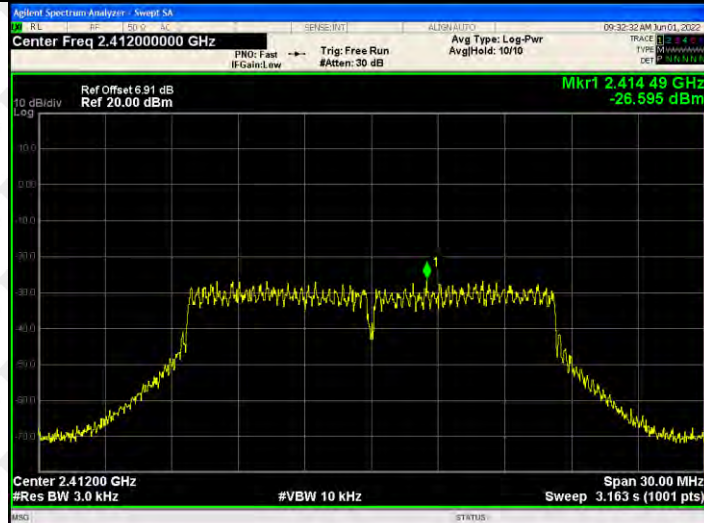
ANT3:

Mode	Channel.	Power Spectral Density [dBm /3KHz]	Limit(8 dBm (in any 3KHz))	Verdict
802.11b	LCH	-22.207	8	PASS
	MCH	-21.597	8	PASS
	HCH	-22.893	8	PASS
802.11g	LCH	-25.763	8	PASS
	MCH	-25.767	8	PASS
	HCH	-25.553	8	PASS
802.11n(H T20)	LCH	-25.829	8	PASS
	MCH	-25.856	8	PASS
	HCH	-26.015	8	PASS
802.11n(H T40)	LCH	-30.089	8	PASS
	MCH	-29.94	8	PASS
	HCH	-30.429	8	PASS

ANT1: Test Graph



802.11g/LCH

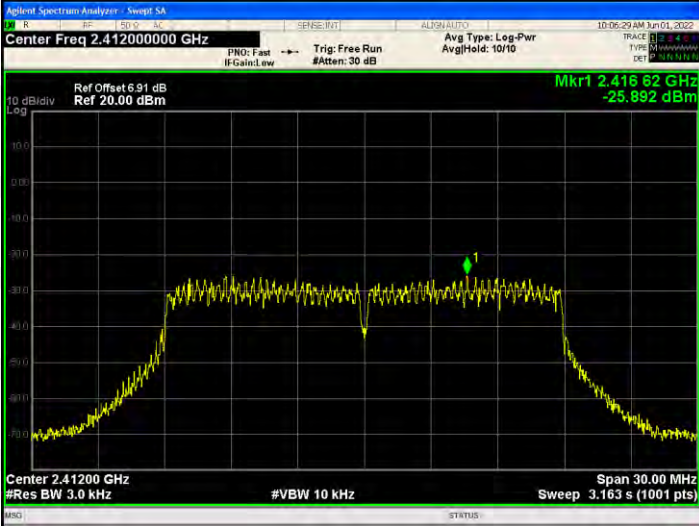


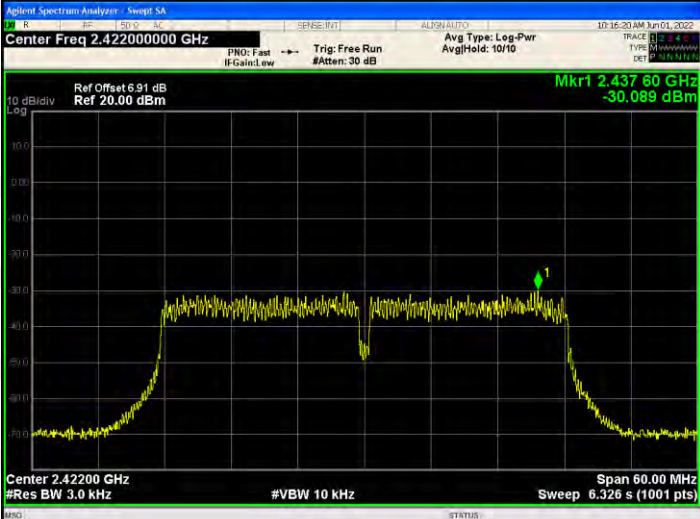
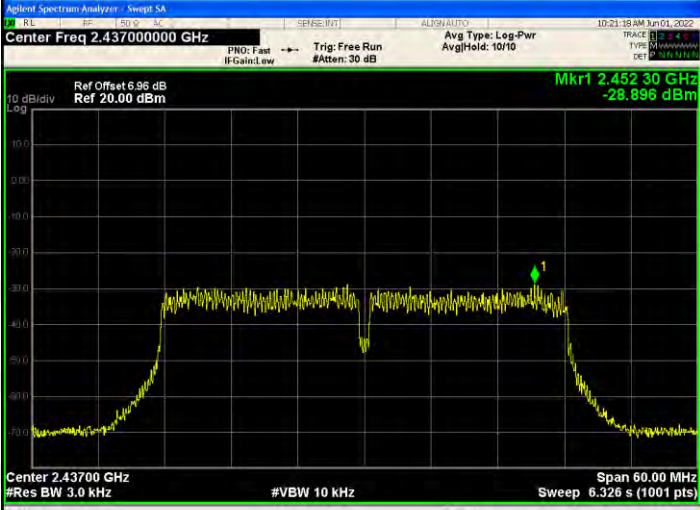
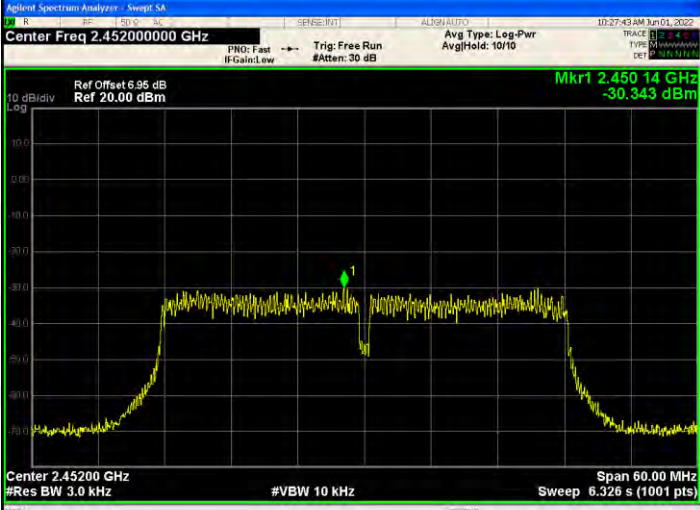
802.11g/MCH



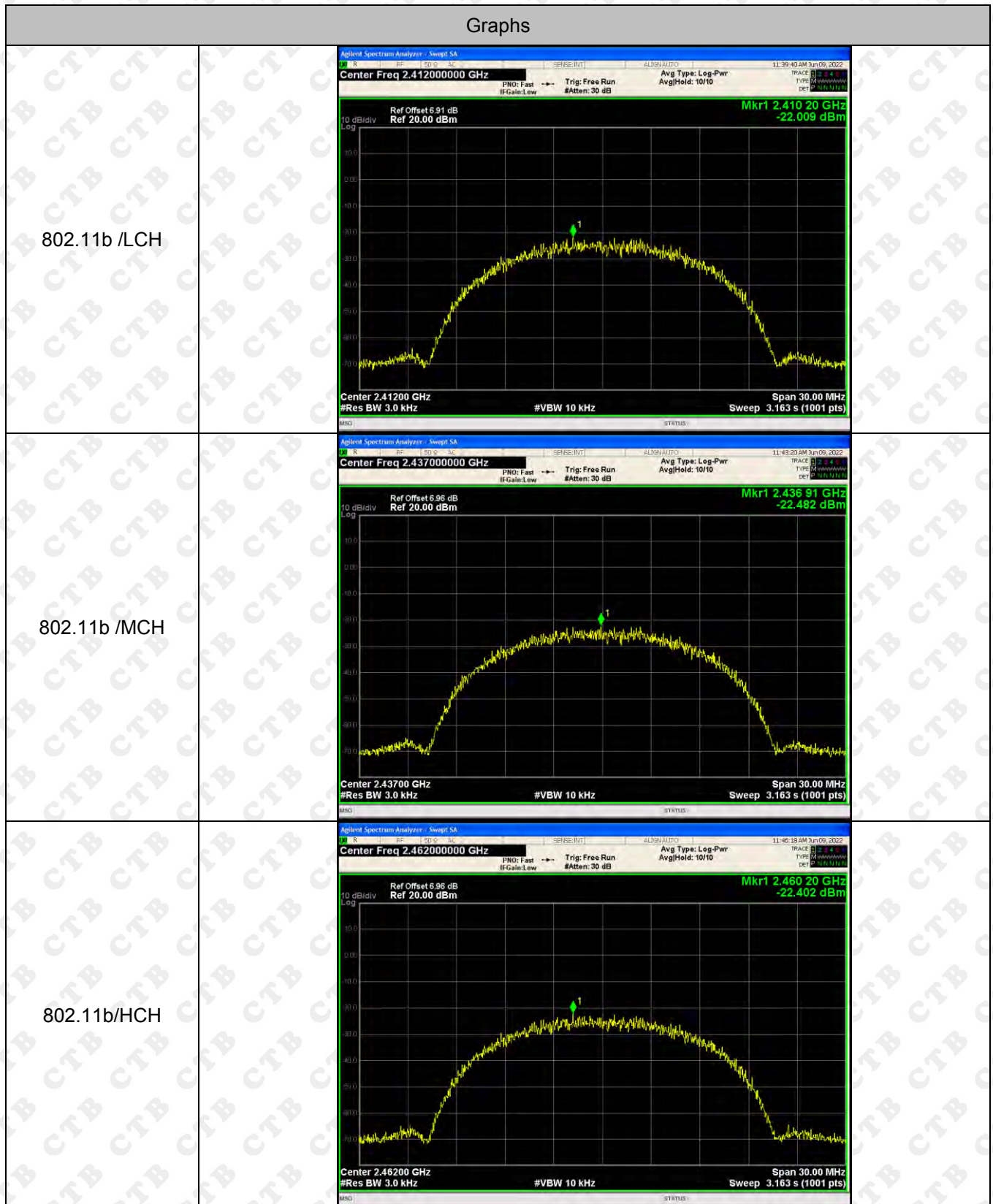
802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 6.91 dB Ref 20.00 dBm Mkr1 2.416 62 GHz -25.892 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)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.430 76 GHz -25.965 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)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.455 76 GHz -25.838 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)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

ANT 2: Test Graph



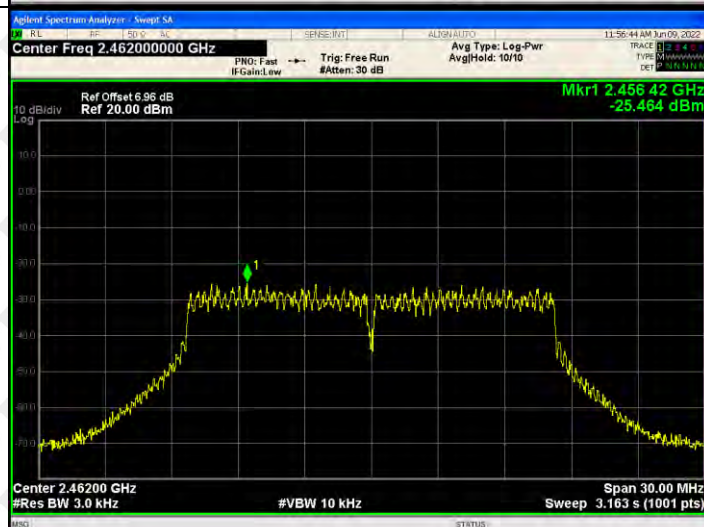
802.11g/LCH

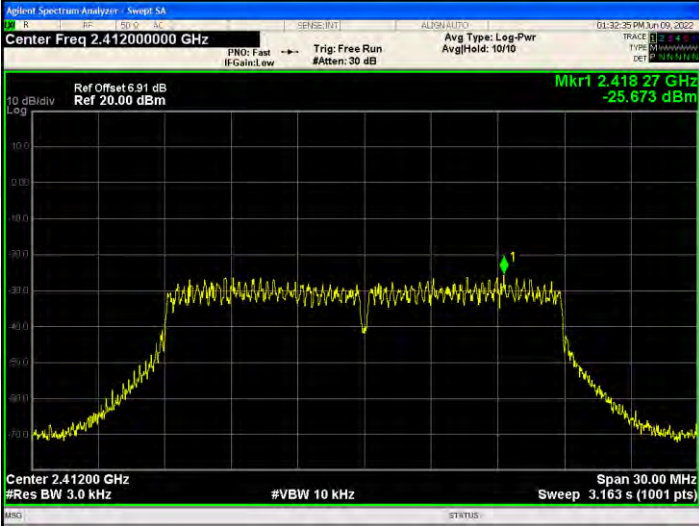
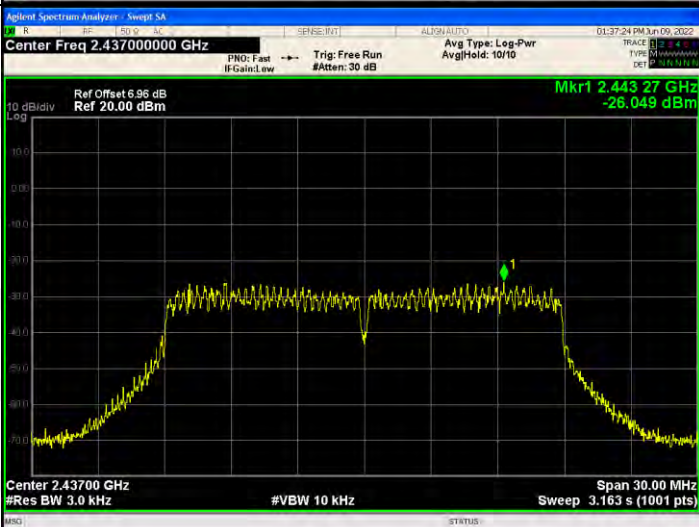
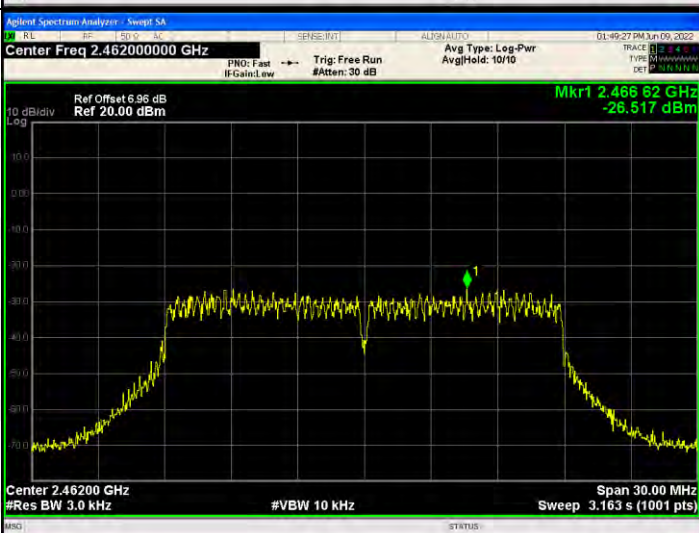


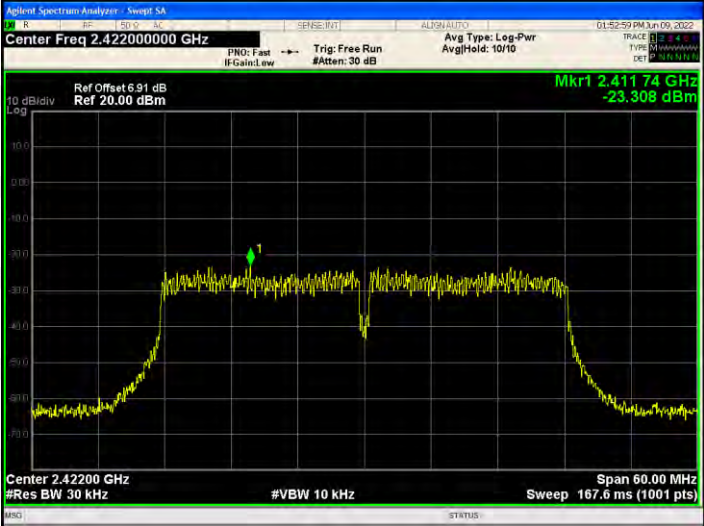
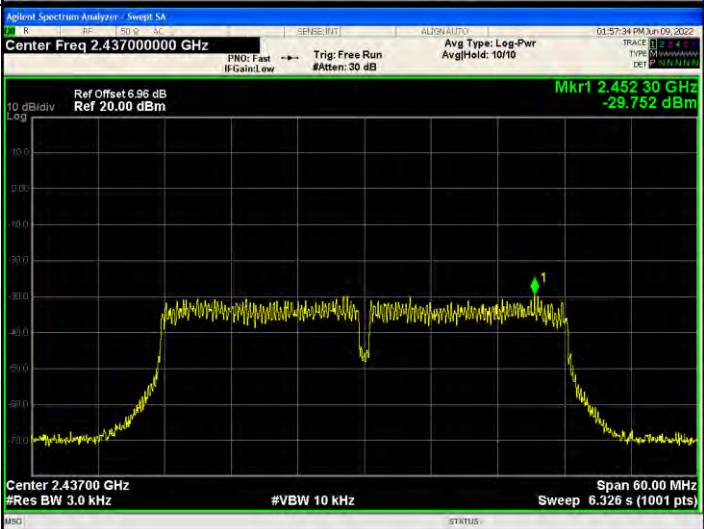
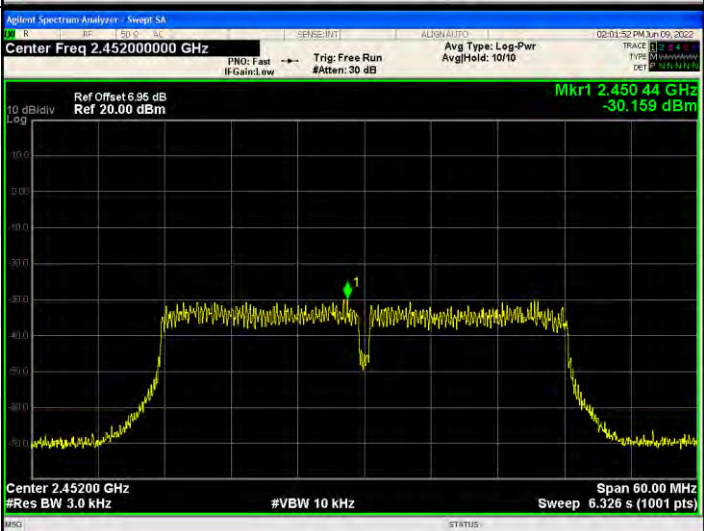
802.11g/MCH



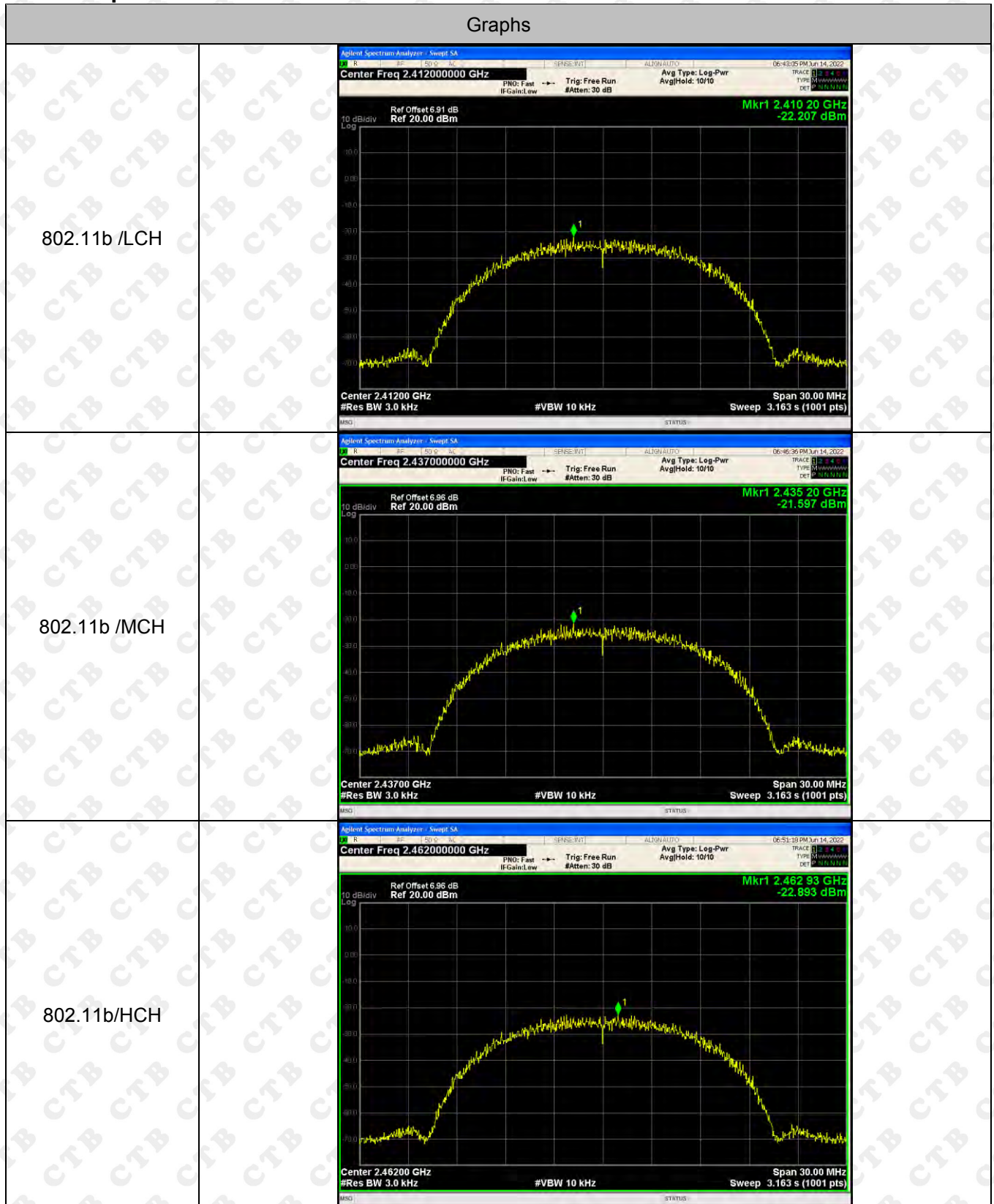
802.11g/HCH



802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
802.11n(HT20)/HC H	

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.42200000 GHz Ref Offset 6.91 dB Ref 20.00 dBm Mkr1 2.41174 GHz -23.308 dBm Center 2.42200 GHz #Res BW 30 kHz #VBW 10 kHz Span 60.00 MHz Sweep 167.6 ms (1001 pts)
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.45230 GHz -29.752 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)/HC H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.45200000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.45044 GHz -30.159 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

ANT3: Test Graph



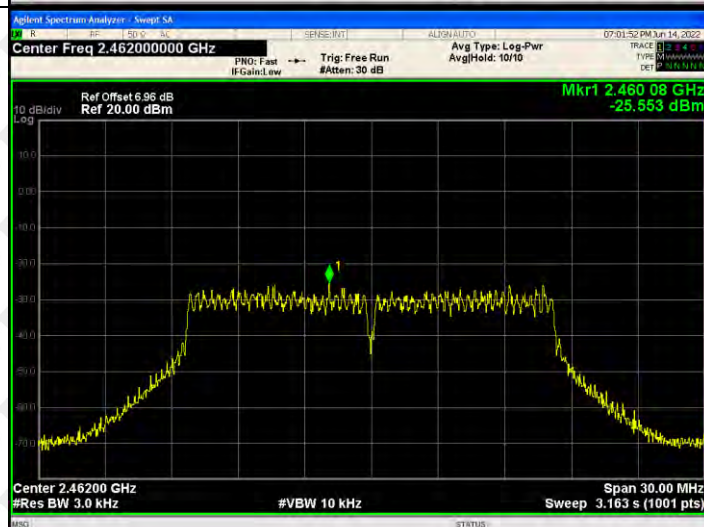
802.11g/LCH

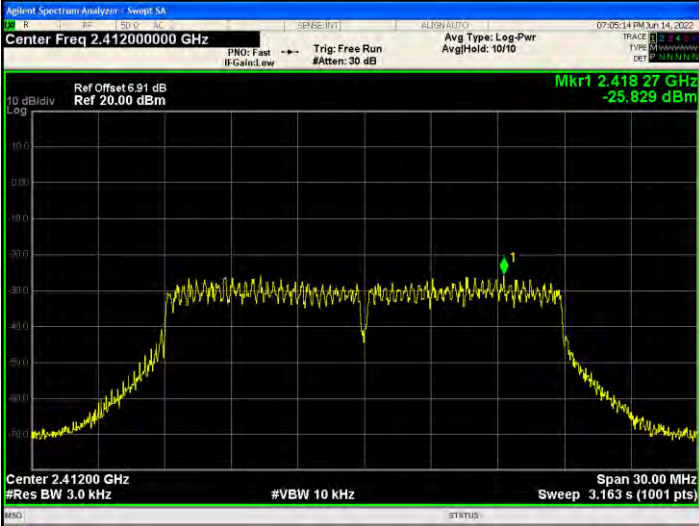
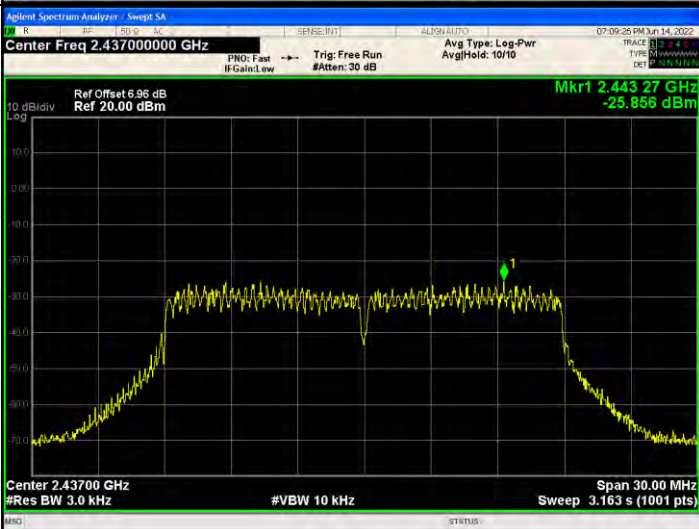
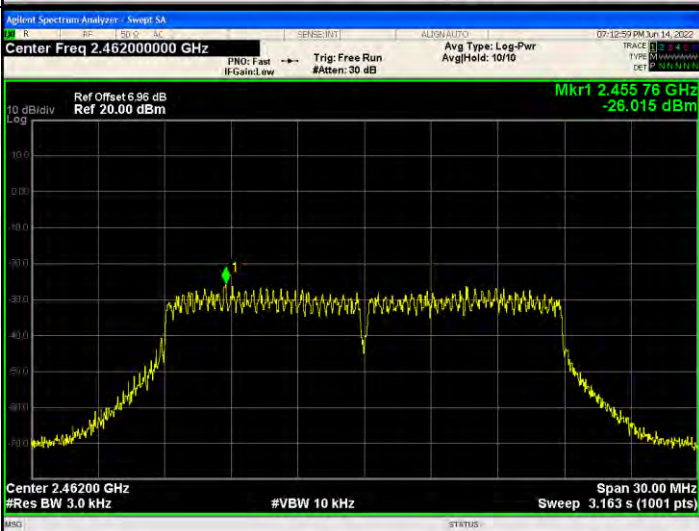


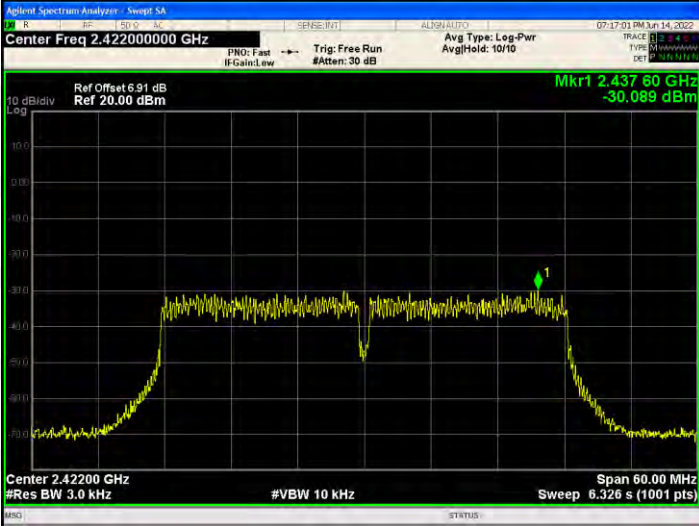
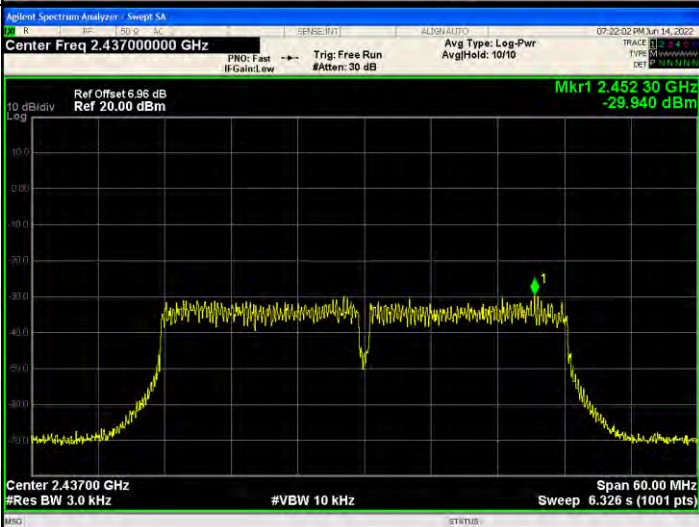
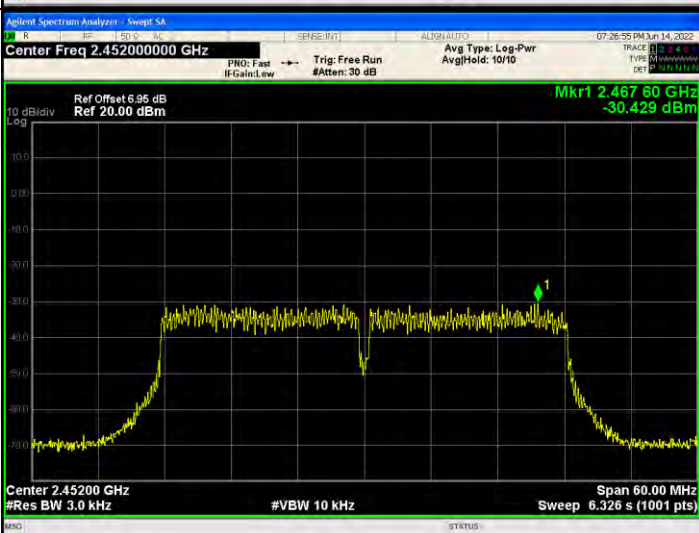
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LC H	
802.11n(HT20)/MC H	
802.11n(HT20)/HC H	

802.11n(HT40)/LC H	
802.11n(HT40)/MC H	
802.11n(HT40)/HC H	

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 internal antenna, and replacement is not considered. The optimal housing gain of the antenna is 1.0dBi.

13. EUT PHOTOGRAPHS

External Photos

EUT Photo 1



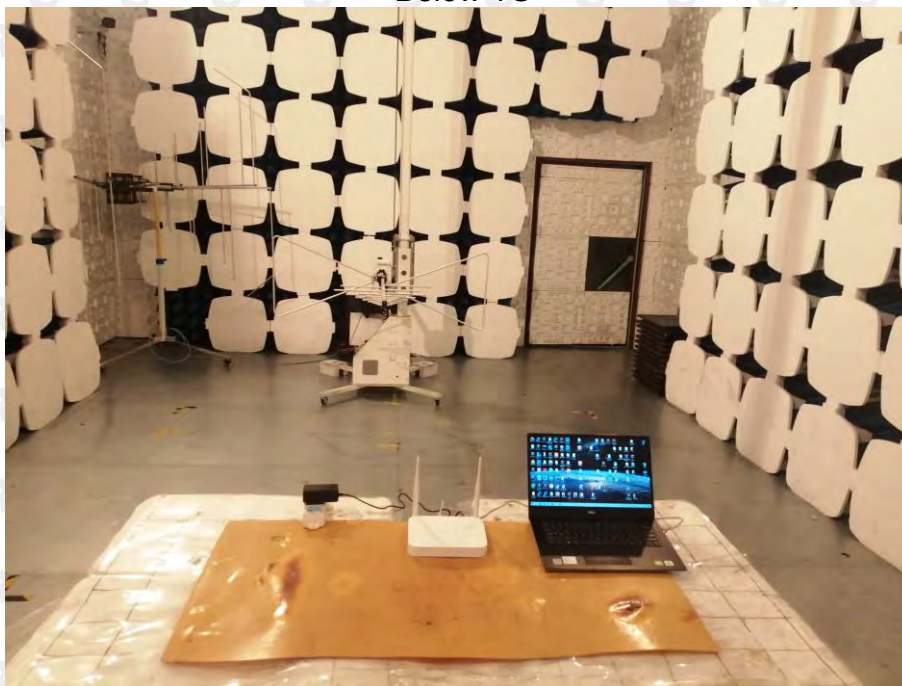
EUT Photo 2



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

Below 1G



Above 1G



Conducted Emission



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