

TEST REPORT

Product Name: Interactive Flat Panel
FCC ID: 2AYJ4TT-XXV5REV2
Trademark: TANGO
Model Number: TT-65V5 Rev 2, TT-75V5 Rev 2, TT-86V5 Rev 2, TT-98V5 Rev 2, TT-55V5 Rev 2
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Sample Received Date: May. 17, 2024
Sample tested Date: May. 17, 2024 to Jun. 25, 2024
Issue Date: Jun. 25, 2024
Report No.: CTB240606005RF
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.

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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
CTB240606005RF	Jun. 25, 2024	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)	/	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=±54.3Hz
Conducted output power Above 1G	U=±1.0dB
Conducted output power below 1G	U=±0.9dB
Power Spectral Density , Conduction	U=±1.0dB
Conduction spurious emissions	U=±2.8dB
Out of band emission	U=±54Hz
3m chamber Radiated spurious emission(9KHz-30MHz)	U=±4.8dB
3m chamber Radiated spurious emission(30MHz-1GHz)	U=±4.3dB
3m chamber Radiated spurious emission(1GHz-18GHz)	U=±4.5dB
3m chamber Radiated spurious emission(1GHz-40GHz)	U=±4.8dB
humidity uncertainty	U=±5.3%
Temperature uncertainty	U=±0.59°C
Supply voltages	U=±3%
Time	U=±5%
Conducted Emission (9KHz-30MHz)	3.2 dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	TT-65V5 Rev 2, TT-75V5 Rev 2, TT-86V5 Rev 2, TT-98V5 Rev 2, TT-55V5 Rev 2
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: TT-65V5 Rev 2
Wi-Fi Specification:	IEEE 802.11b/g/n/ax
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi: IEEE 802.11b/g/n20/ax20: 2412-2462MHz/ 11 channel IEEE 802.11n40/ax40: 2422-2452MHz/ 7 channel
Max. RF output power:	WiFi (2.4G): 16.808dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WiFi: External antenna
Antenna Gain:	WiFi (2.4G): Ant1: 2.75dBi Ant2: 2.75dBi
Ratings:	AC 100-240V~50/60Hz, 5.5A Max

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	Keyboard	DELL	KB216t	N/A	N/A
2	Mouse	DELL	MS116c	N/A	N/A
3	Monitor	DELL	SE2218HV	N/A	N/A

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/ax20)	2412MHz	2437MHz	2462MHz
Transmitting(802.11n40/ax40)	2422MHz	2437MHz	2452MHz

MIMO(ANT 1+ANT 2)

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11n20/ax20)	2412MHz	2437MHz	2462MHz
Transmitting(802.11n40/ax40)	2422MHz	2437MHz	2452MHz

EUT has two Internal Antenna with Max Antenna Gain 2.75dbi 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)=1.375dB,
 So the directional gain for PSD is 4.125dBi

2) For power measurements,
 The Array gain=0 dB for NANT≤4,
 So the directional gain for Power measurements is 2.75dBi

NOTE: DutyCycle>98%.

Test mode	Rate
802.11b	11M
802.11g	54M
802.11/n20	65M
802.11/n40	65M
802.11/ax20	65M
802.11/ax40	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

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, Xinh 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

Item	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2024.07.05
4	Communication test set	R&S	CMW500	108058	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	2024.07.06
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2024.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2024.07.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/
16	966 chamber	C.R.T.	966	/	2024.08.11
17	Receiver	R&S	ESPI	100362	2024.07.05
18	Amplifier	HP	8447E	2945A02747	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2024.07.08

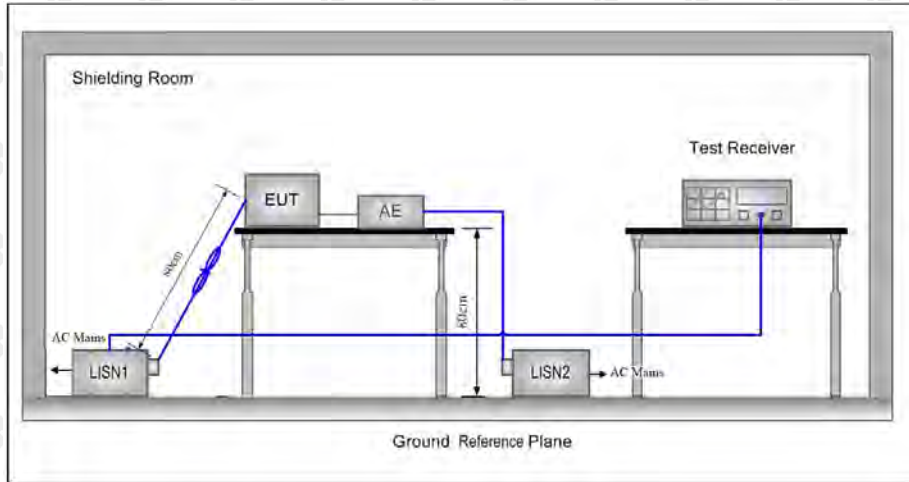
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	2024.07.08
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/
25	40G Horn antenna	A/H/System	SAS-574	588	2024.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	2024.07.05

Continuous disturbance					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	ROHDE&SCHWARZ	ESH3-Z5	100318	2024.07.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2024.07.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2024.07.05
4	Coaxial cable	ZDECL	Z302S-NJ-SMA J-12M	18091905	2024.07.05
5	ISN	Schwarzbeck	NTFM8158	183	2024.07.05
6	Communication test set	Agilent	E5515C	MY50102567	2024.07.05
7	Communication test set	R&S	CMW500	108058	2024.07.05
8	EZ-EMC	Frad	EMC-con3A1.1	/	/

Radiated emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	2024.07.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2024.07.08
3	Amplifier	Agilent	8449B	3008A01838	2024.07.05
4	Amplifier	HP	8447E	2945A02747	2024.07.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2024.07.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2024.07.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2024.07.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2024.07.05
9	Coaxial cable	ETS	RFC-NNS-100-NMS-300 NI	/	2024.07.05
10	Communication test set	Agilent	E5515C	MY50102567	2024.07.05
11	Communication test set	R&S	CMW500	108058	2024.07.05
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 (dB μ V)	
	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

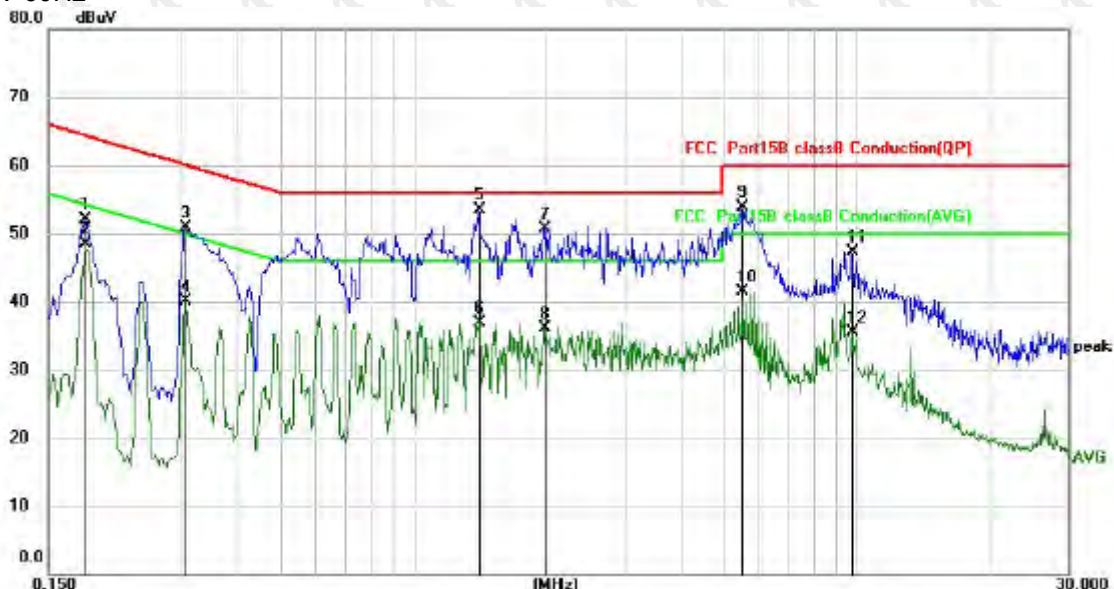
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50 Ω /50 μ H + 5 Ω linear impedance. The power cables of all other units of the EUT were connected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

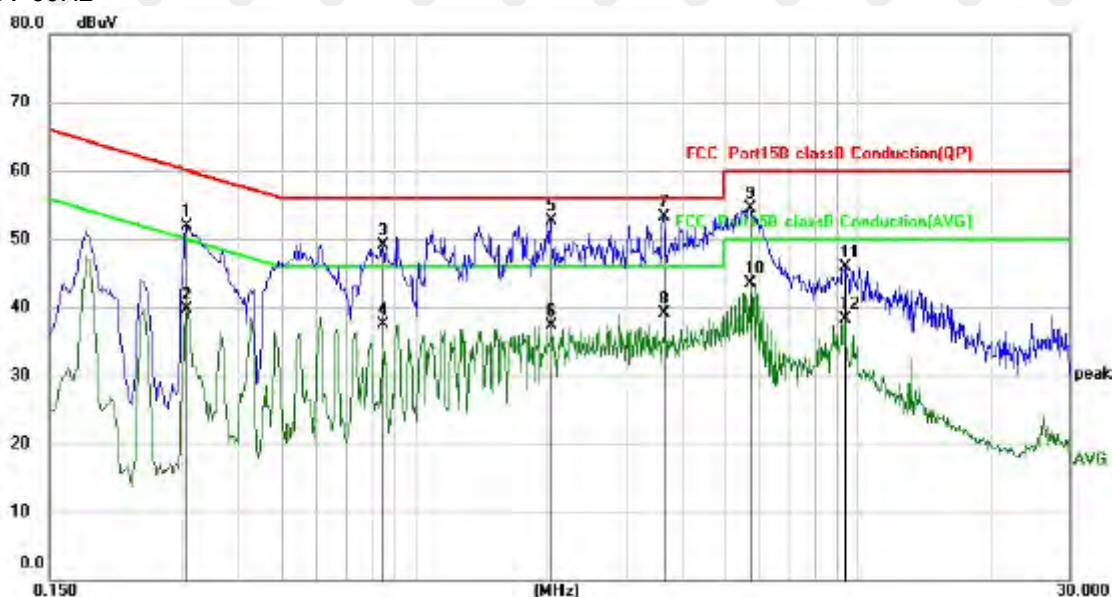
Test Specification: Line
AC 120V 60Hz



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	dBuV	Factor	ment-	dBuV	dB	Detector
				dB	dBuV			
1		0.1819	42.13	9.95	52.08	64.40	-12.32	QP
2		0.1819	38.47	9.95	48.42	54.40	-5.98	AVG
3		0.3059	40.96	9.96	50.92	60.08	-9.16	QP
4		0.3059	30.15	9.96	40.11	50.08	-9.97	AVG
5	*	1.4100	43.54	10.04	53.58	56.00	-2.42	QP
6		1.4100	26.86	10.04	36.90	46.00	-9.10	AVG
7		1.9739	40.66	10.09	50.75	56.00	-5.25	QP
8		1.9739	26.04	10.09	36.13	46.00	-9.87	AVG
9		5.4818	43.47	10.41	53.88	60.00	-6.12	QP
10		5.4818	31.13	10.41	41.54	50.00	-8.46	AVG
11		9.7538	36.71	10.58	47.29	60.00	-12.71	QP
12		9.7538	24.86	10.58	35.44	50.00	-14.56	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	Measurement dBuV	Limit dBuV	Over dB	Detector
1	0.3059	42.01	9.96	51.97	60.08	-8.11	QP
2	0.3059	29.72	9.96	39.68	50.08	-10.40	AVG
3	0.8459	39.13	10.01	49.14	56.00	-6.86	QP
4	0.8459	27.42	10.01	37.43	46.00	-8.57	AVG
5	2.0259	42.52	10.09	52.61	56.00	-3.39	QP
6	2.0259	27.22	10.09	37.31	46.00	-8.69	AVG
7 *	3.6579	43.05	10.25	53.30	56.00	-2.70	QP
8	3.6579	28.93	10.25	39.18	46.00	-6.82	AVG
9	5.6859	44.05	10.43	54.48	60.00	-5.52	QP
10	5.6859	33.16	10.43	43.59	50.00	-6.41	AVG
11	9.3817	35.37	10.57	45.94	60.00	-14.06	QP
12	9.3817	27.80	10.57	38.37	50.00	-11.63	AVG

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

7. RADIATED SPURIOUS EMISSION

7.1 Block Diagram Of Test Setup

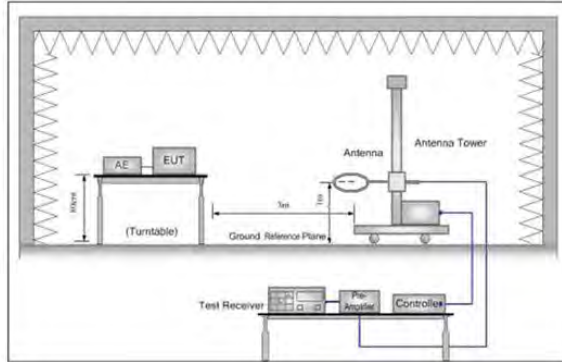


Figure 1. Below 30MHz

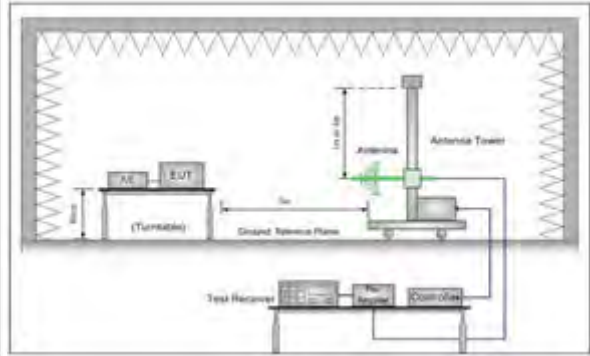


Figure 2. 30MHz to 1GHz

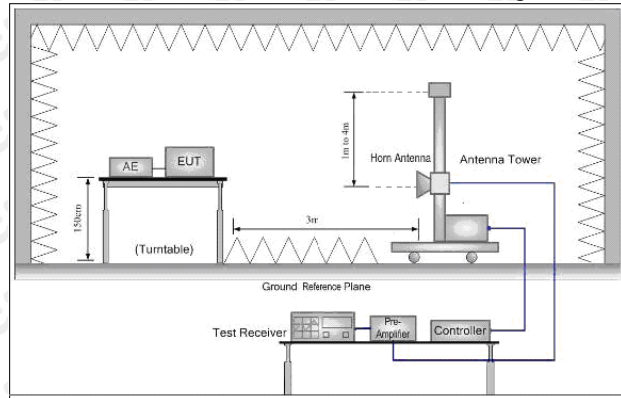


Figure 3. Above 1GHz

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
- 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		44.5086	32.74	-5.61	27.13	40.00	-12.87	QP
2		125.2258	41.99	-5.03	36.96	43.50	-6.54	QP
3	!	199.2855	46.63	-7.48	39.15	43.50	-4.35	QP
4	!	374.6225	44.57	-2.81	41.76	46.00	-4.24	QP
5	!	601.4265	38.88	2.66	41.54	46.00	-4.46	QP
6	*	803.1933	35.83	6.43	42.26	46.00	-3.74	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	!	45.2959	40.41	-5.76	34.65	40.00	-5.35	QP
2	!	125.2258	44.22	-5.03	39.19	43.50	-4.31	QP
3		199.2855	44.31	-7.48	36.83	43.50	-6.67	QP
4	!	387.9917	43.02	-2.46	40.56	46.00	-5.44	QP
5	!	628.3745	38.70	3.17	41.87	46.00	-4.13	QP
6	*	803.1933	35.54	6.43	41.97	46.00	-4.03	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:

ANT1 LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	65.96	-3.64	62.32	74	-11.68	peak
4824	50.26	-3.64	46.62	54	-7.38	AVG
7236	58.07	-0.95	57.12	74	-16.88	peak
7236	44.35	-0.95	43.40	54	-10.60	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	64.96	-3.64	61.32	74	-12.68	peak
4824	49.11	-3.64	45.47	54	-8.53	AVG
7236	58.64	-0.95	57.69	74	-16.31	peak
7236	44.93	-0.95	43.98	54	-10.02	AVG

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

ANT1 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	65.00	-3.51	61.49	74	-12.51	peak
4874	50.53	-3.51	47.02	54	-6.98	AVG
7311	59.12	-0.82	58.30	74	-15.70	peak
7311	43.86	-0.82	43.04	54	-10.96	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	65.73	-3.51	62.22	74	-11.78	peak
4874	48.33	-3.51	44.82	54	-9.18	AVG
7311	57.92	-0.82	57.10	74	-16.90	peak
7311	43.39	-0.82	42.57	54	-11.43	AVG

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

ANT1 HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	63.78	-3.43	60.35	74	-13.65	peak
4924	47.89	-3.43	44.46	54	-9.54	AVG
7386	59.18	-0.75	58.43	74	-15.57	peak
7386	44.64	-0.75	43.89	54	-10.11	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	65.43	-3.43	62.00	74	-12.00	peak
4924	47.55	-3.43	44.12	54	-9.88	AVG
7386	56.70	-0.75	55.95	74	-18.05	peak
7386	43.44	-0.75	42.69	54	-11.31	AVG

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

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

ANT1 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	65.04	-3.64	61.40	74	-12.60	peak
4824	50.96	-3.64	47.32	54	-6.68	AVG
7236	57.10	-0.95	56.15	74	-17.85	peak
7236	45.80	-0.95	44.85	54	-9.15	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	67.19	-3.64	63.55	74	-10.45	peak
4824	48.96	-3.64	45.32	54	-8.68	AVG
7236	56.50	-0.95	55.55	74	-18.45	peak
7236	43.98	-0.95	43.03	54	-10.97	AVG

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

ANT1 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	64.04	-3.51	60.53	74	-13.47	peak
4874	48.92	-3.51	45.41	54	-8.59	AVG
7311	58.85	-0.82	58.03	74	-15.97	peak
7311	44.31	-0.82	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)	
4874	64.05	-3.51	60.54	74	-13.46	peak
4874	49.46	-3.51	45.95	54	-8.05	AVG
7311	58.87	-0.82	58.05	74	-15.95	peak
7311	42.41	-0.82	41.59	54	-12.41	AVG

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

ANT1 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	64.14	-3.43	60.71	74	-13.29	peak
4924	48.30	-3.43	44.87	54	-9.13	AVG
7386	58.59	-0.75	57.84	74	-16.16	peak
7386	44.83	-0.75	44.08	54	-9.92	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	64.63	-3.43	61.20	74	-12.80	peak
4924	47.92	-3.43	44.49	54	-9.51	AVG
7386	58.76	-0.75	58.01	74	-15.99	peak
7386	41.40	-0.75	40.65	54	-13.35	AVG

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

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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 (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4824	64.37	-3.64	60.73	74	-13.27	peak
4824	49.43	-3.64	45.79	54	-8.21	AVG
7236	56.72	-0.95	55.77	74	-18.23	peak
7236	43.83	-0.95	42.88	54	-11.12	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4824	66.95	-3.64	63.31	74	-10.69	peak
4824	48.61	-3.64	44.97	54	-9.03	AVG
7236	57.31	-0.95	56.36	74	-17.64	peak
7236	44.26	-0.95	43.31	54	-10.69	AVG

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

LOW CH1 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	63.81	-3.51	60.30	74	-13.70	peak
4874	48.73	-3.51	45.22	54	-8.78	AVG
7311	58.66	-0.82	57.84	74	-16.16	peak
7311	43.56	-0.82	42.74	54	-11.26	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	65.46	-3.51	61.95	74	-12.05	peak
4874	48.87	-3.51	45.36	54	-8.64	AVG
7311	58.74	-0.82	57.92	74	-16.08	peak
7311	43.59	-0.82	42.77	54	-11.23	AVG

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

LOW CH1 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	63.69	-3.43	60.26	74	-13.74	peak
4924	46.61	-3.43	43.18	54	-10.82	AVG
7386	58.84	-0.75	58.09	74	-15.91	peak
7386	44.23	-0.75	43.48	54	-10.52	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	64.14	-3.43	60.71	74	-13.29	peak
4924	47.54	-3.43	44.11	54	-9.89	AVG
7386	56.97	-0.75	56.22	74	-17.78	peak
7386	42.29	-0.75	41.54	54	-12.46	AVG

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

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

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	64.72	-3.63	61.09	74	-12.91	peak
4844	46.97	-3.63	43.34	54	-10.66	AVG
7266	58.73	-0.94	57.79	74	-16.21	peak
7266	44.42	-0.94	43.48	54	-10.52	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	65.78	-3.63	62.15	74	-11.85	peak
4844	47.61	-3.63	43.98	54	-10.02	AVG
7266	58.49	-0.94	57.55	74	-16.45	peak
7266	44.89	-0.94	43.95	54	-10.05	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	62.55	-3.51	59.04	74	-14.96	peak
4874	48.97	-3.51	45.46	54	-8.54	AVG
7311	60.95	-0.82	60.13	74	-13.87	peak
7311	45.64	-0.82	44.82	54	-9.18	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	62.25	-3.51	58.74	74	-15.26	peak
4874	46.46	-3.51	42.95	54	-11.05	AVG
7311	56.65	-0.82	55.83	74	-18.17	peak
7311	43.28	-0.82	42.46	54	-11.54	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 (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4904	64.18	-3.43	60.75	74	-13.25	peak
4904	49.48	-3.43	46.05	54	-7.95	AVG
7356	56.24	-0.75	55.49	74	-18.51	peak
7356	43.92	-0.75	43.17	54	-10.83	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4904	62.72	-3.43	59.29	74	-14.71	peak
4904	48.03	-3.43	44.60	54	-9.40	AVG
7356	58.10	-0.75	57.35	74	-16.65	peak
7356	44.49	-0.75	43.74	54	-10.26	AVG

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

Remark:

- (1). Measuring frequencies from 9KHz to the 25 GHz. The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report
- (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.

ANT1+ANT2 LOW CH1 (802.11ax/H20 Mode)/2412

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	63.24	-3.64	59.60	74	-14.40	peak
4824	47.98	-3.64	44.34	54	-9.66	AVG
7236	57.74	-0.95	56.79	74	-17.21	peak
7236	44.60	-0.95	43.65	54	-10.35	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	62.64	-3.64	59.00	74	-15.00	peak
4824	47.98	-3.64	44.34	54	-9.66	AVG
7236	57.45	-0.95	56.50	74	-17.50	peak
7236	46.91	-0.95	45.96	54	-8.04	AVG

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

ANT1+ANT2 MID CH6 (802.11ax/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	62.55	-3.51	59.04	74.00	-14.96	peak
4874.00	50.32	-3.51	46.81	54.00	-7.19	AVG
7311.00	58.55	-0.82	57.73	74.00	-16.27	peak
7311.00	43.92	-0.82	43.10	54.00	-10.90	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	62.01	-3.51	58.50	74.00	-15.50	peak
4874.00	47.56	-3.51	44.05	54.00	-9.95	AVG
7311.00	57.15	-0.82	56.33	74.00	-17.67	peak
7311.00	43.92	-0.82	43.10	54.00	-10.90	AVG

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

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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	61.54	-3.43	58.11	74	-15.89	peak
4924	46.28	-3.43	42.85	54	-11.15	AVG
7386	57.77	-0.75	57.02	74	-16.98	peak
7386	42.26	-0.75	41.51	54	-12.49	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	63.76	-3.43	60.33	74	-13.67	peak
4924	45.83	-3.43	42.40	54	-11.60	AVG
7386	58.41	-0.75	57.66	74	-16.34	peak
7386	41.85	-0.75	41.10	54	-12.90	AVG

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

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

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844	65.69	-3.63	62.06	74	-11.94	peak
4844	49.00	-3.63	45.37	54	-8.63	AVG
7266	58.09	-0.94	57.15	74	-16.85	peak
7266	44.63	-0.94	43.69	54	-10.31	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	64.97	-3.63	61.34	74	-12.66	peak
4844	49.46	-3.63	45.83	54	-8.17	AVG
7266	58.73	-0.94	57.79	74	-16.21	peak
7266	44.89	-0.94	43.95	54	-10.05	AVG

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

ANT1+ANT2 MID CH6 (802.11ax/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	63.58	-3.51	60.07	74	-13.93	peak
4874	47.30	-3.51	43.79	54	-10.21	AVG
7311	58.80	-0.82	57.98	74	-16.02	peak
7311	44.45	-0.82	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	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	62.31	-3.51	58.80	74	-15.20	peak
4874	46.49	-3.51	42.98	54	-11.02	AVG
7311	56.67	-0.82	55.85	74	-18.15	peak
7311	43.33	-0.82	42.51	54	-11.49	AVG

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

ANT1+ANT2 HIGH CH9 (802.11ax/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	63.79	-3.43	60.36	74	-13.64	peak
4904	48.78	-3.43	45.35	54	-8.65	AVG
7356	58.36	-0.75	57.61	74	-16.39	peak
7356	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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	62.98	-3.43	59.55	74	-14.45	peak
4904	45.45	-3.43	42.02	54	-11.98	AVG
7356	56.88	-0.75	56.13	74	-17.87	peak
7356	42.74	-0.75	41.99	54	-12.01	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:

ANT 1 802.11b 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	56.25	-5.81	50.44	74	-23.56	peak
2390	/	-5.81	/	54	/	AVG
2399	64.27	-5.84	58.43	74	-15.57	peak
2399	48.40	-5.84	42.56	54	-11.44	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	56.35	-5.81	50.54	74	-23.46	peak
2390	/	-5.81	/	54	/	AVG
2399	63.16	-5.84	57.32	74	-16.68	peak
2399	46.17	-5.84	40.33	54	-13.67	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:

ANT1 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	57.81	-5.65	52.16	74	-21.84	peak
2483.5	/	-5.65	/	54	/	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.46	-5.65	49.81	74	-24.19	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 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	59.09	-5.81	53.28	74	-20.72	peak
2390	/	-5.81	/	54	/	AVG
2399	62.18	-5.84	56.34	74	-17.66	peak
2399	45.67	-5.84	39.83	54	-14.17	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	57.44	-5.81	51.63	74	-22.37	peak
2390	/	-5.81	/	54	/	AVG
2399	61.92	-5.84	56.08	74	-17.92	peak
2399	46.84	-5.84	41.00	54	-13.00	AVG

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

Operation Mode:

ANT1 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	57.13	-5.65	51.48	74	-22.52	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	57.21	-5.65	51.56	74	-22.44	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	56.84	-5.81	51.03	74	-22.97	peak
2390	/	-5.81	/	54	/	AVG
2399	63.62	-5.84	57.78	74	-16.22	peak
2399	48.46	-5.84	42.62	54	-11.38	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	56.73	-5.81	50.92	74	-23.08	peak
2390	/	-5.81	/	54	/	AVG
2399	61.20	-5.84	55.36	74	-18.64	peak
2399	47.61	-5.84	41.77	54	-12.23	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	57.48	-5.65	51.83	74	-22.17	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	56.37	-5.65	50.72	74	-23.28	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	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	58.64	-5.81	52.83	74	-21.17	peak
2390	/	-5.81	/	54	/	AVG
2399	62.75	-5.84	56.91	74	-17.09	peak
2399	45.66	-5.84	39.82	54	-14.18	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	58.13	-5.81	52.32	74	-21.68	peak
2390	/	-5.81	/	54	/	AVG
2399	61.20	-5.84	55.36	74	-18.64	peak
2399	45.49	-5.84	39.65	54	-14.35	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	56.58	-5.65	50.93	74	-23.07	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	55.24	-5.65	49.59	74	-24.41	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 802.11ax/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	56.50	-5.81	50.69	74	-23.31	peak
2390	/	-5.81	/	54	/	AVG
2399	63.07	-5.84	57.23	74	-16.77	peak
2399	48.86	-5.84	43.02	54	-10.98	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	60.78	-5.84	54.94	74	-19.06	peak
2399	47.13	-5.84	41.29	54	-12.71	AVG

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

Operation Mode:

ANT1+ANT2 802.11ax/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	56.12	-5.65	50.47	74	-23.53	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	56.67	-5.65	51.02	74	-22.98	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 802.11ax/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	59.35	-5.81	53.54	74	-20.46	peak
2390	/	-5.81	/	54	/	AVG
2399	62.48	-5.84	56.64	74	-17.36	peak
2399	47.12	-5.84	41.28	54	-12.72	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	57.19	-5.81	51.38	74	-22.62	peak
2390	/	-5.81	/	54	/	AVG
2399	60.57	-5.84	54.73	74	-19.27	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

Operation Mode:

ANT1+ANT2 802.11ax/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	58.00	-5.65	52.35	74	-21.65	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:

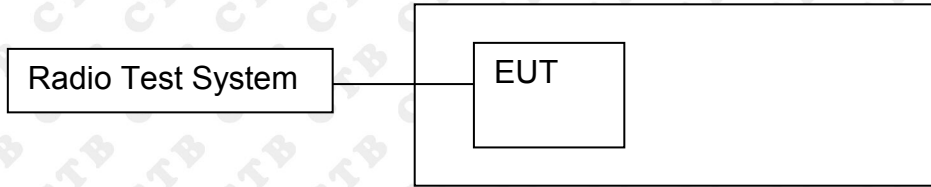
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.62	-5.65	49.97	74	-24.03	peak
2483.5	/	-5.65	/	54	/	AVG

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

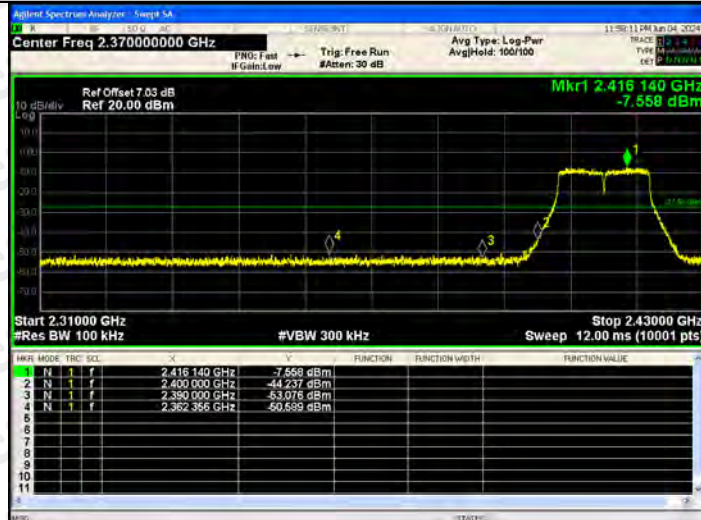
8.4 Test Result

ANT1:



BAND EDGE Graphs

802.11g/LCH

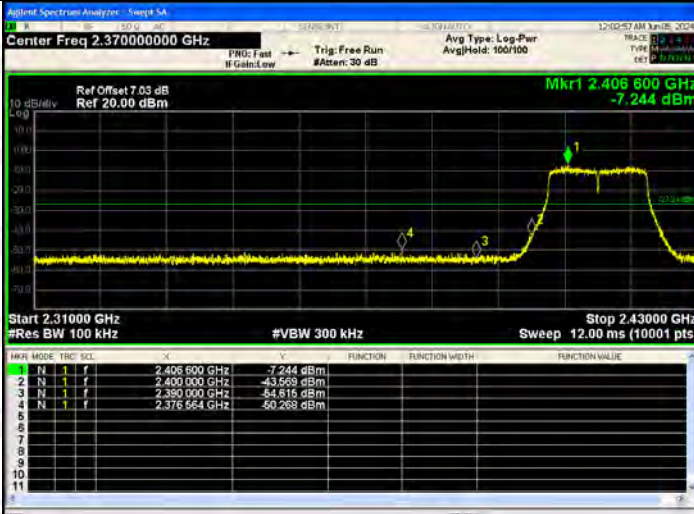


802.11g/HCH

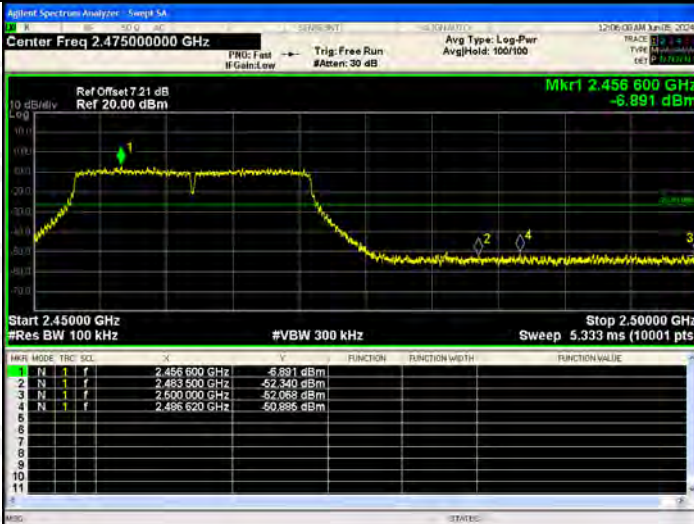


BAND EDGE Graphs

802.11n(HT20)/LCH

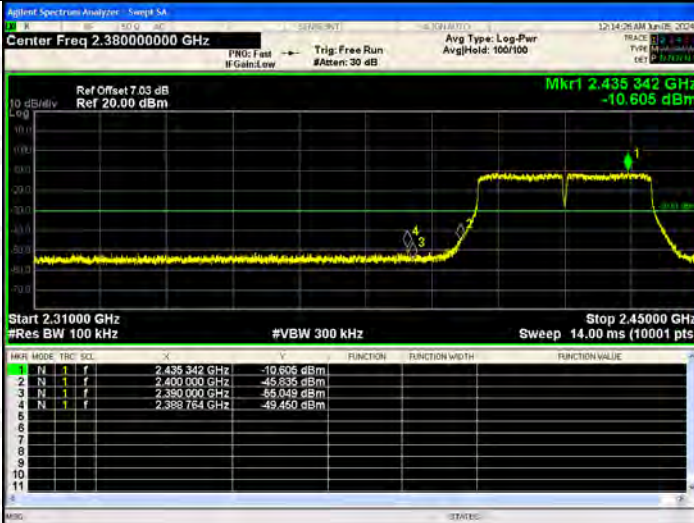


802.11n(HT20)/HCH



BAND EDGE Graphs

802.11n(HT40)/LCH



802.11n(HT40)/HCH

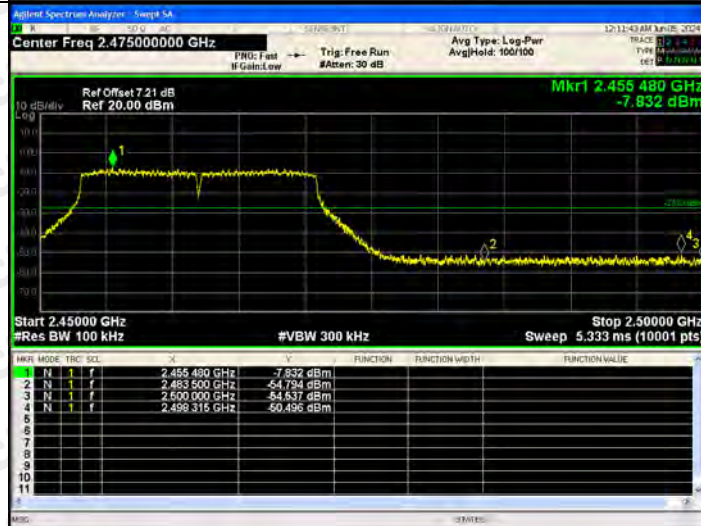


BAND EDGE Graphs

802.11ax(HT20)/
LCH

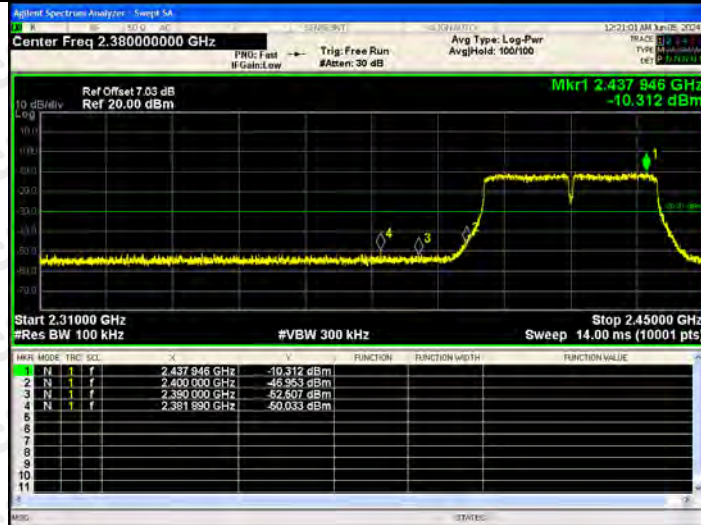


802.11ax(HT20)/
HCH



BAND EDGE Graphs

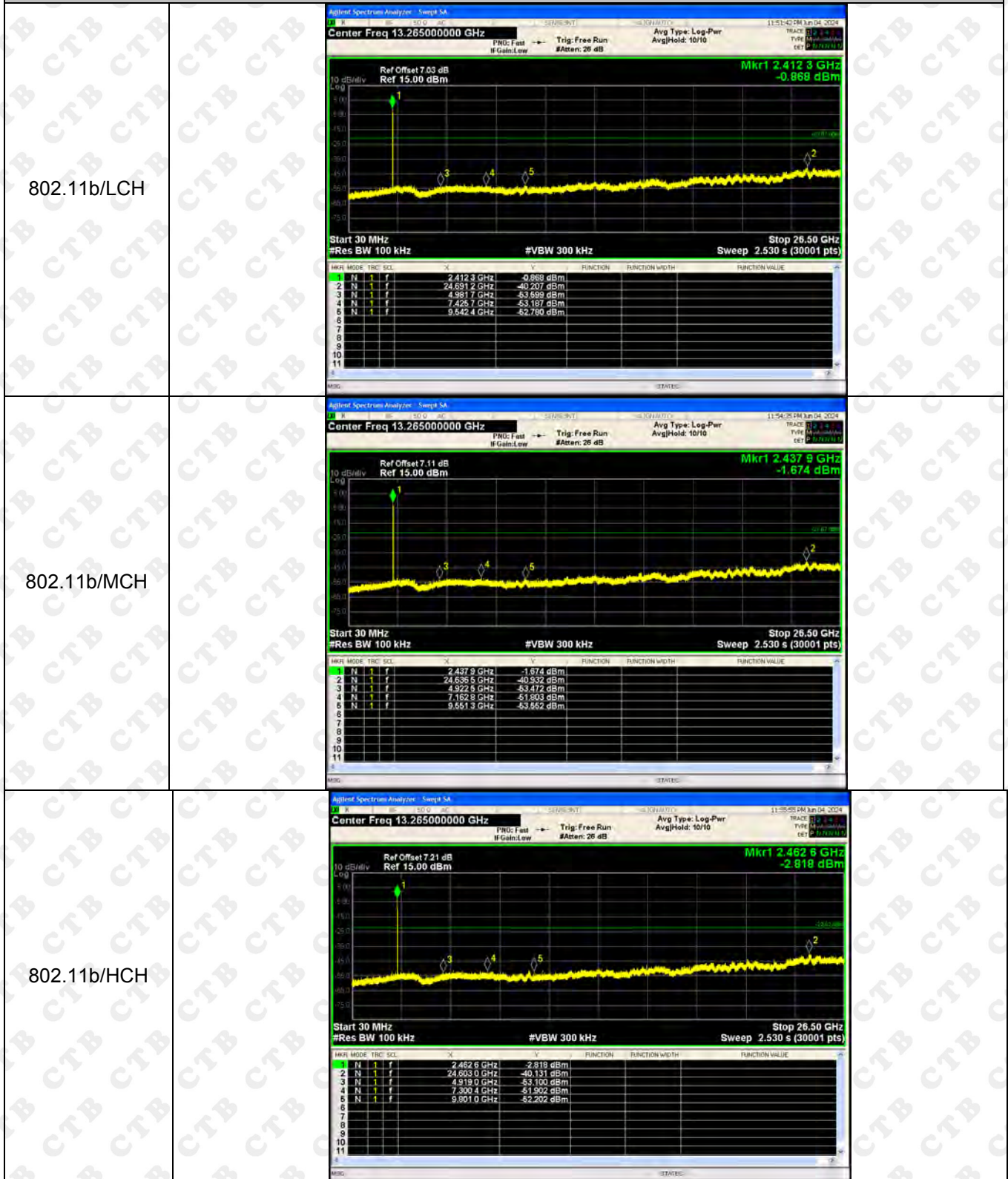
802.11ax(HT40)/
LCH



802.11ax(HT40)/
HCH



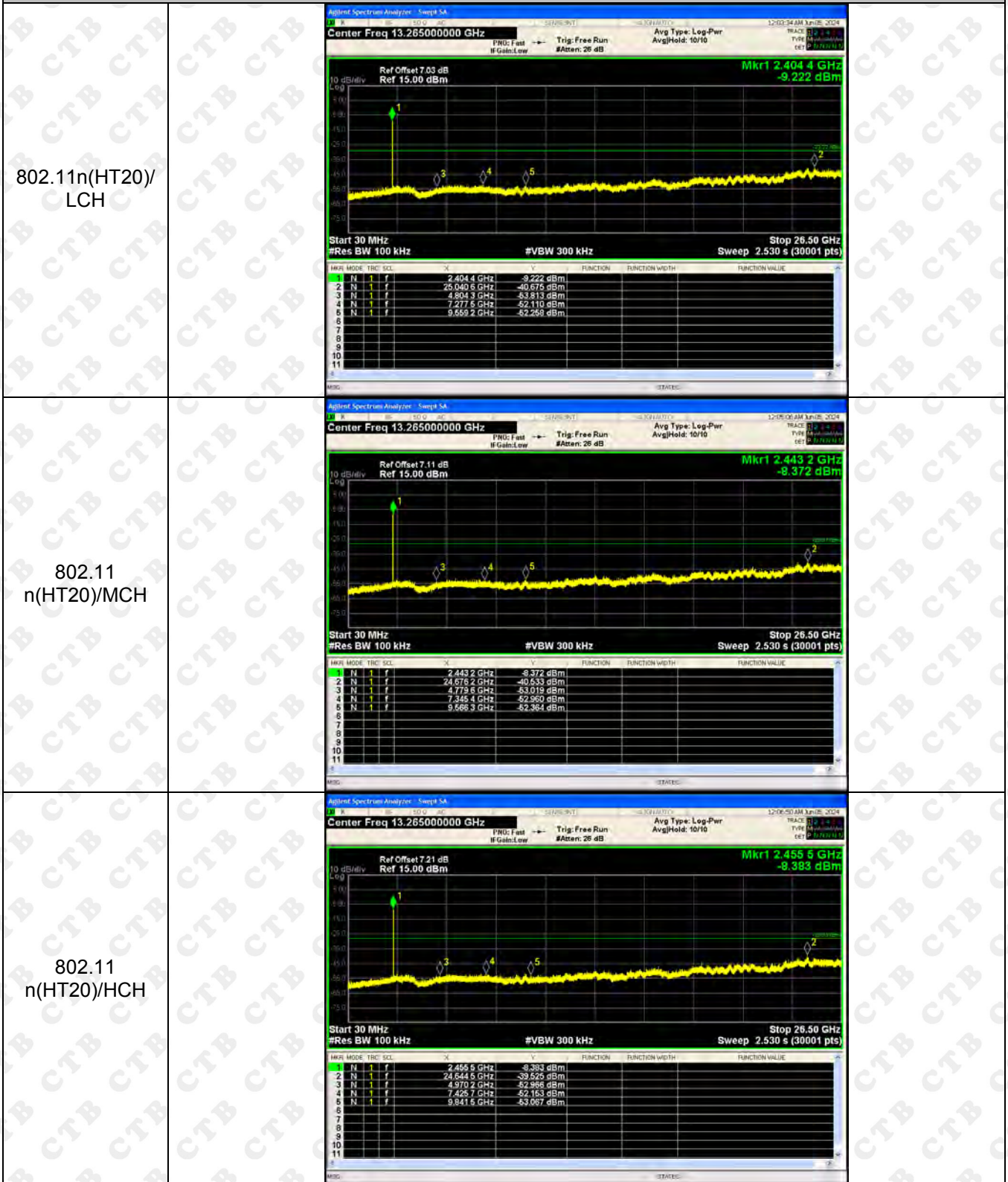
RF Conducted Spurious Emissions Graphs



RF Conducted Spurious Emissions Graphs



RF Conducted Spurious Emissions Graphs



<p>802.11n(HT40)/LCH</p>	<table border="1"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</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>2.4352 GHz</td> <td>-11.059 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>26.1227 GHz</td> <td>-40.486 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>4.9784 GHz</td> <td>-53.718 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>7.1240 GHz</td> <td>-52.696 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>N</td> <td>1</td> <td>f</td> <td>9.6248 GHz</td> <td>-51.912 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4352 GHz	-11.059 dBm				2	N	1	f	26.1227 GHz	-40.486 dBm				3	N	1	f	4.9784 GHz	-53.718 dBm				4	N	1	f	7.1240 GHz	-52.696 dBm				5	N	1	f	9.6248 GHz	-51.912 dBm			
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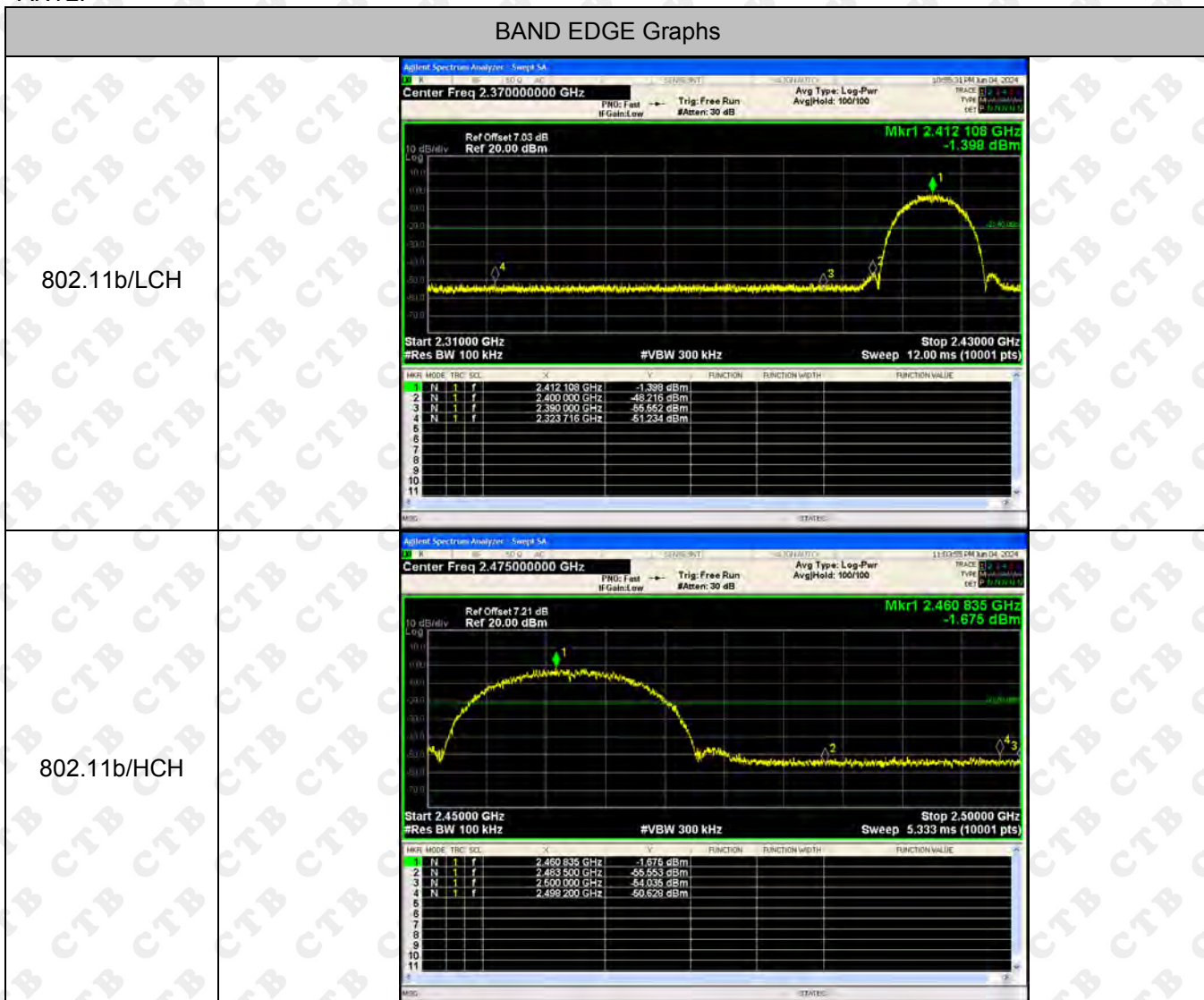
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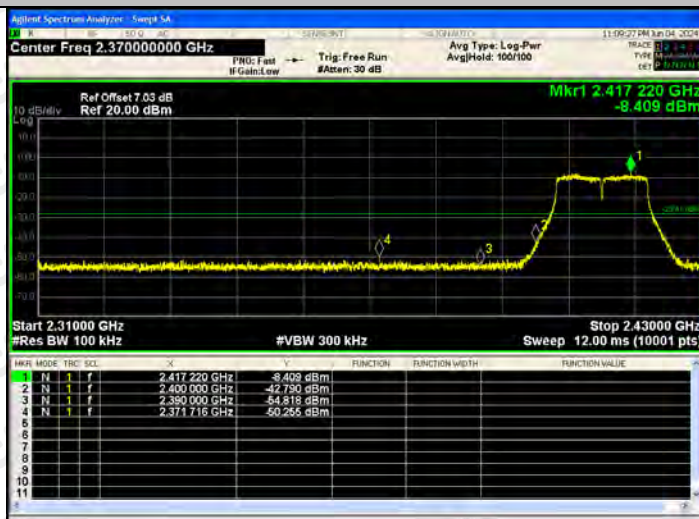
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ANT2:



BAND EDGE Graphs

802.11g/LCH



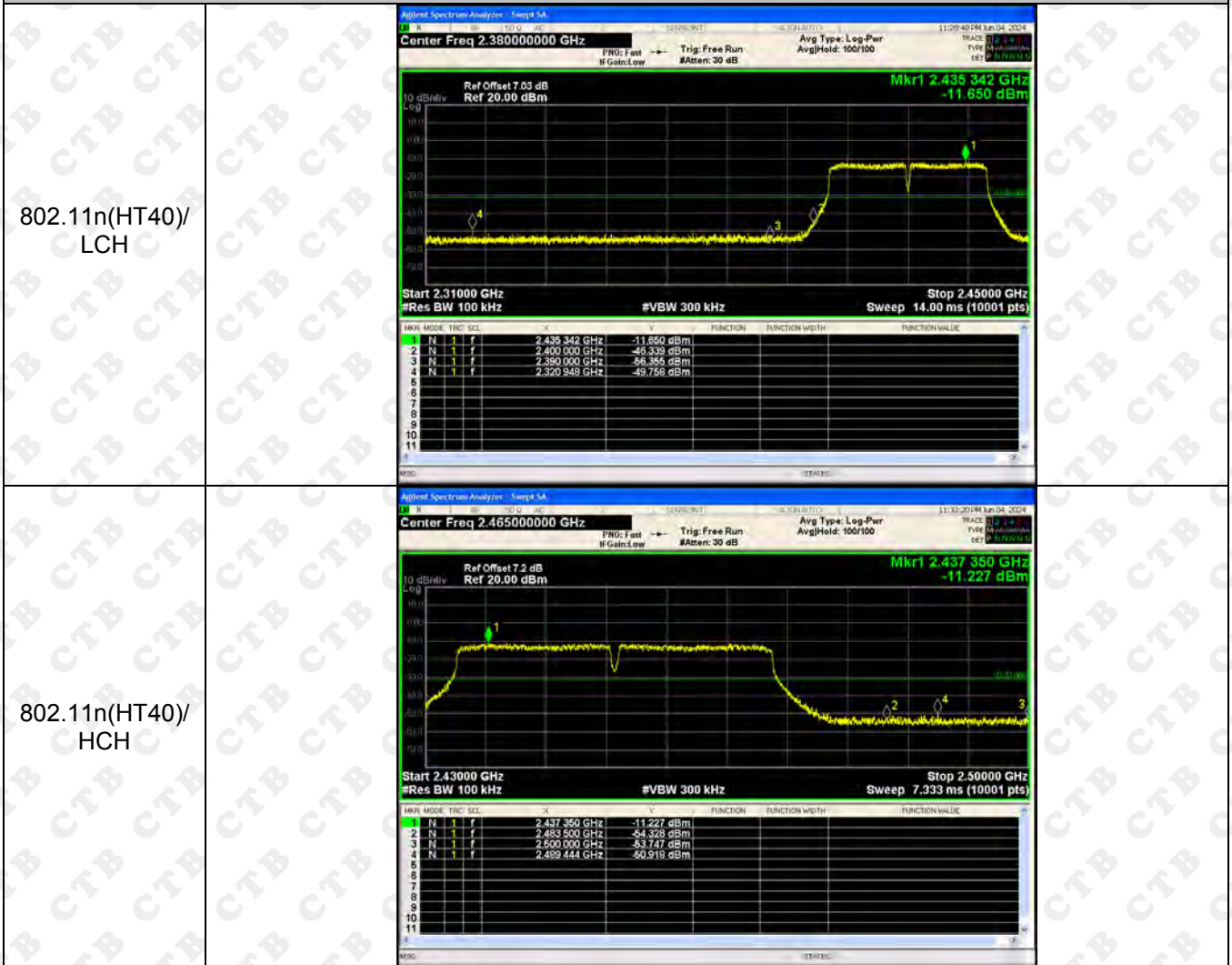
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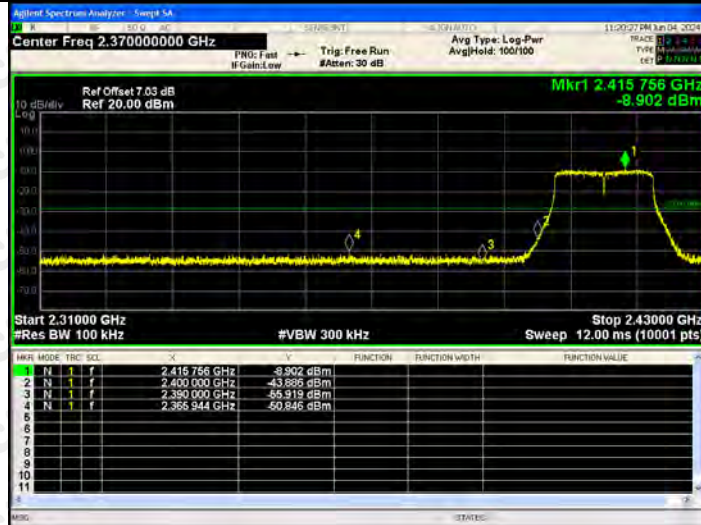


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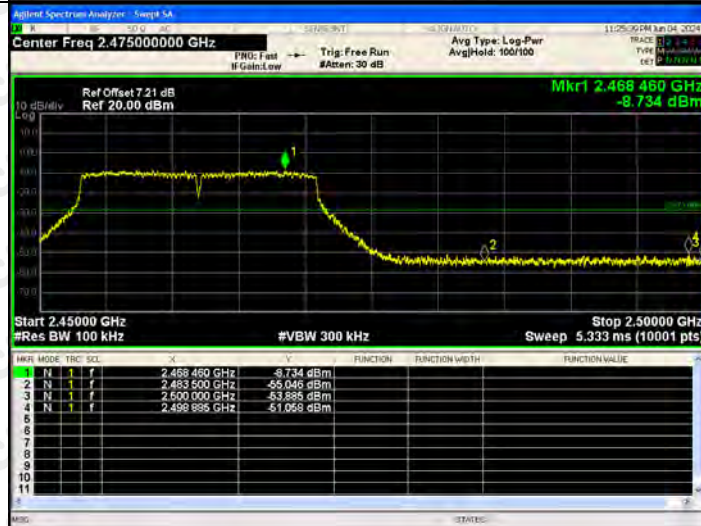


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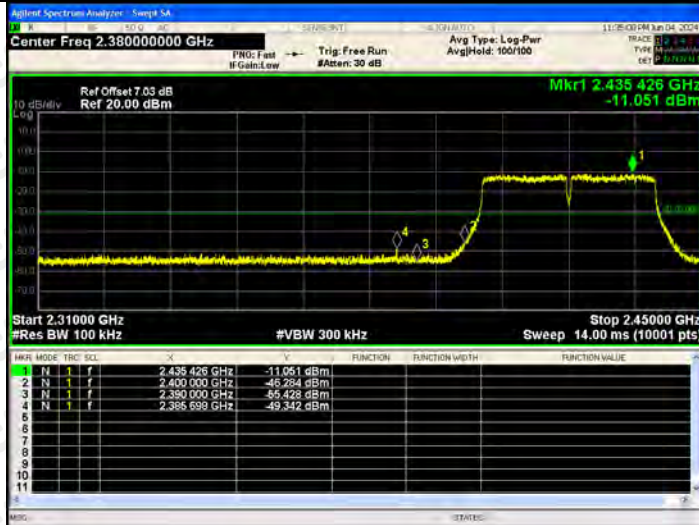


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BAND EDGE Graphs

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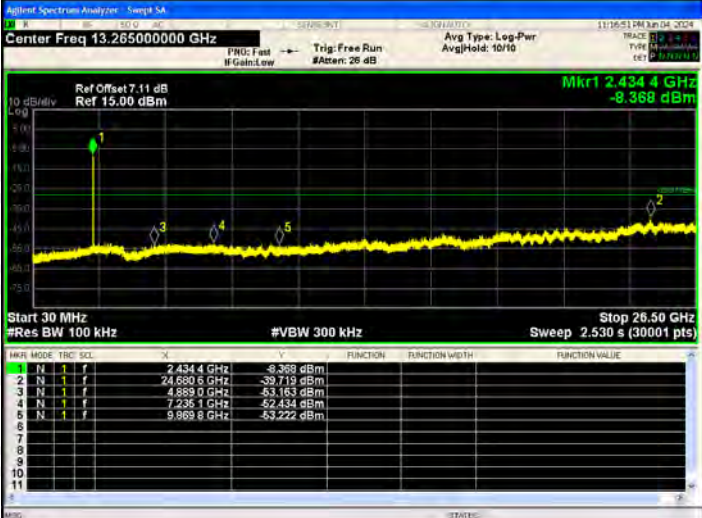
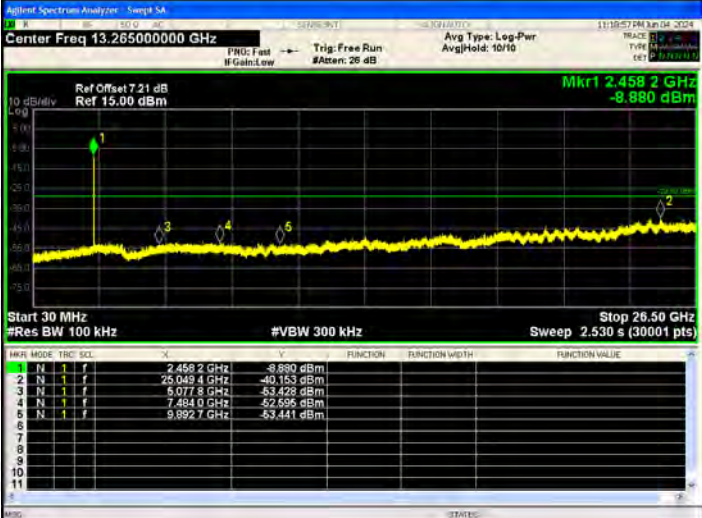
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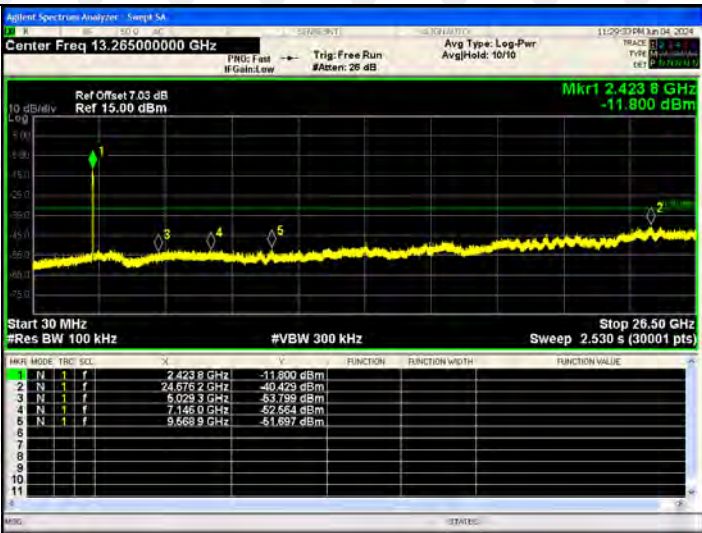
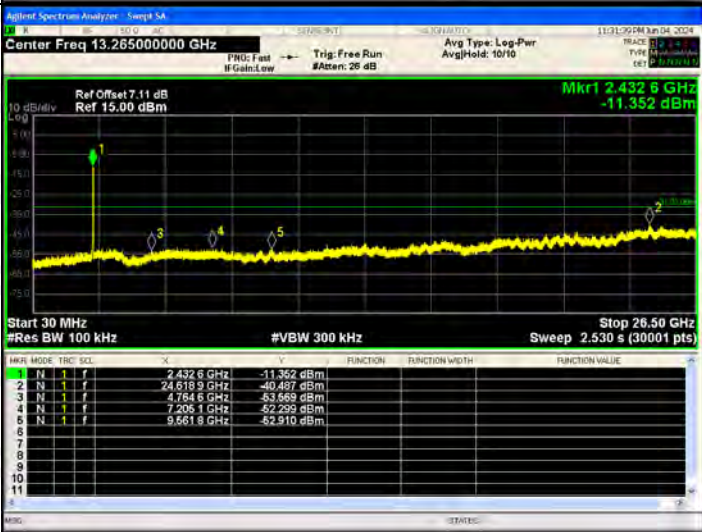
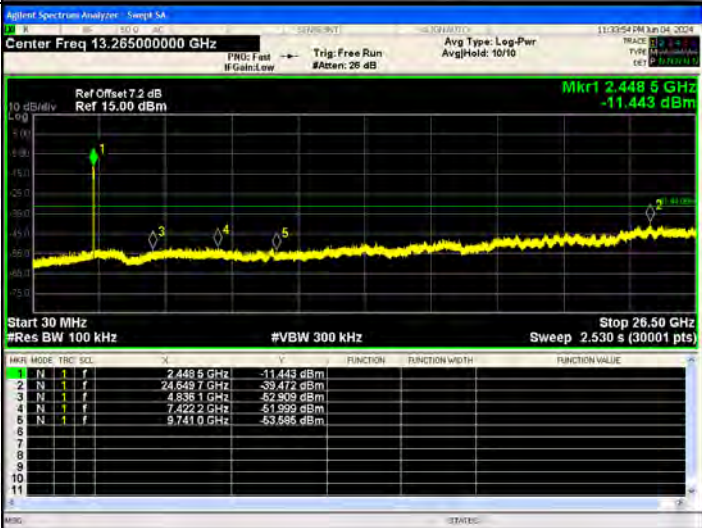
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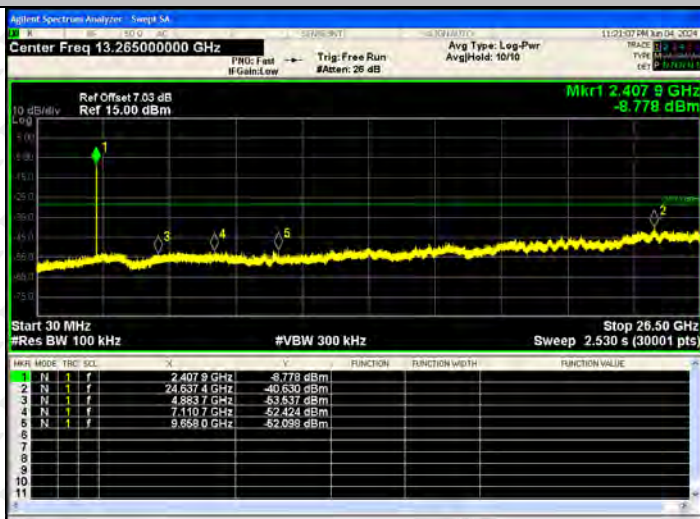
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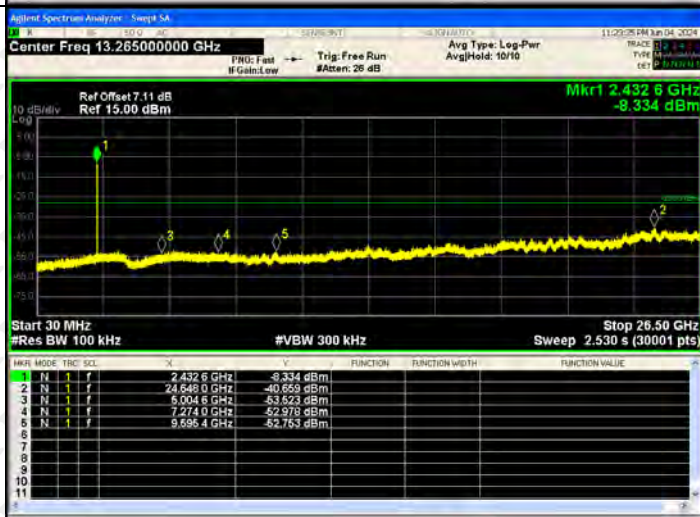
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RF Conducted Spurious Emissions Graphs

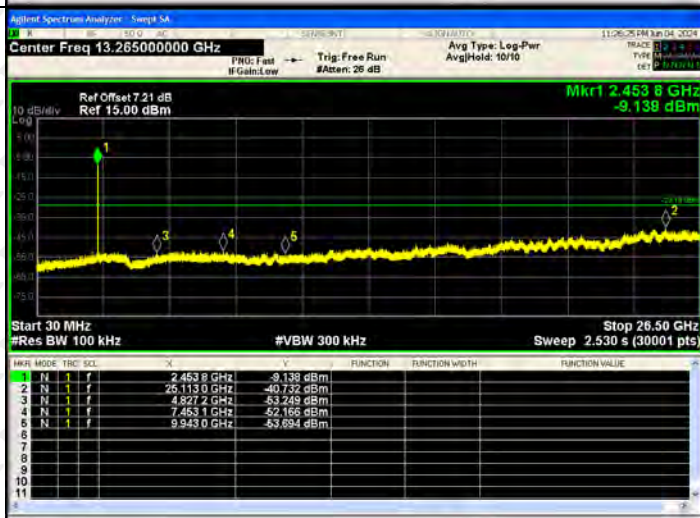
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802.11 ax(HT20)/MCH

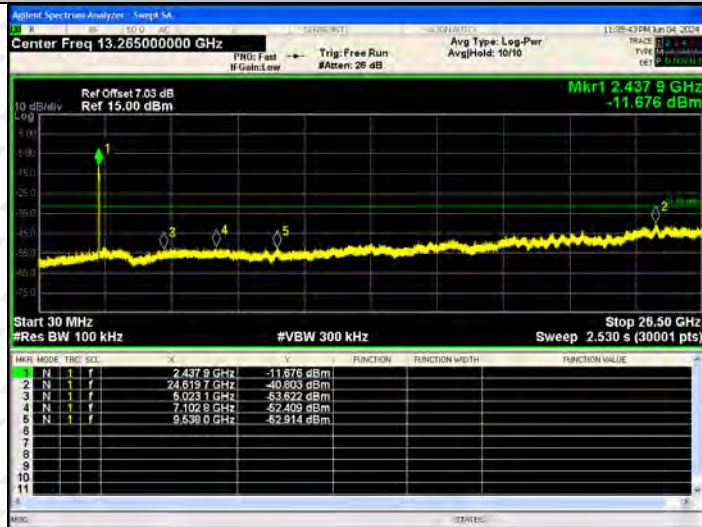


802.11 ax(HT20)/HCH

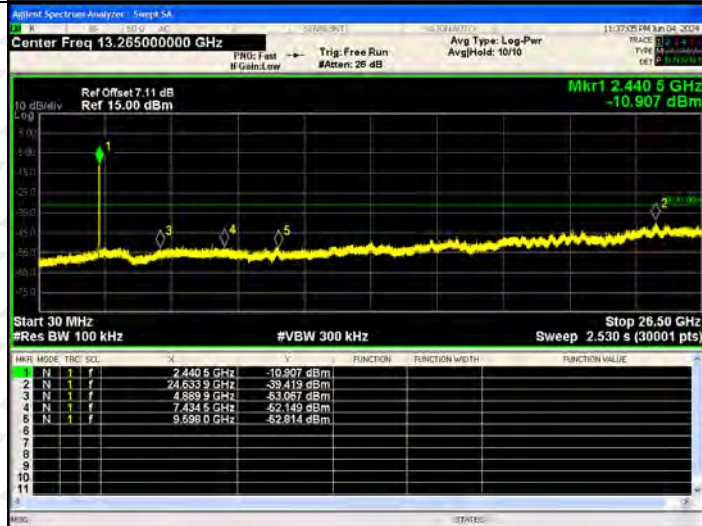


RF Conducted Spurious Emissions Graphs

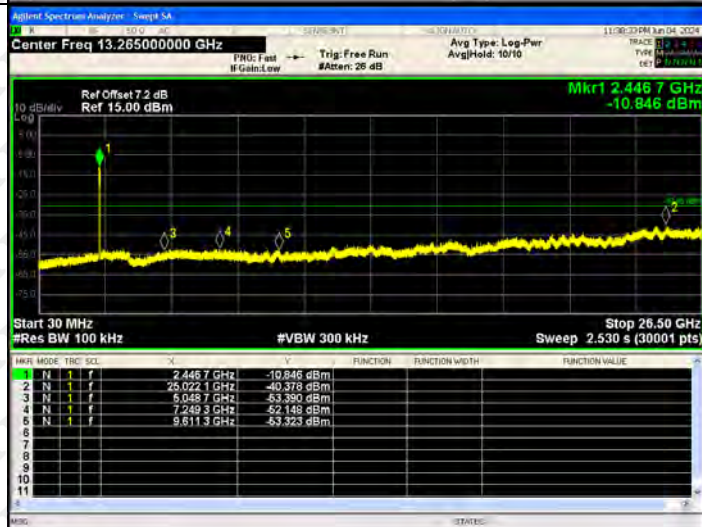
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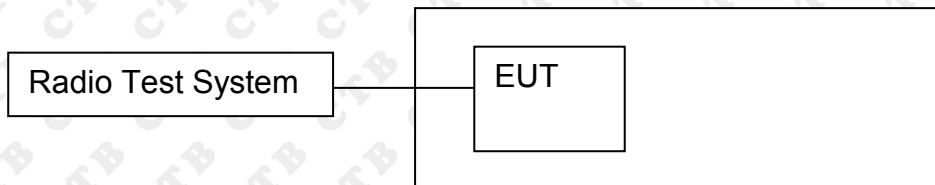


802.11 ax(HT40)/HCH



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

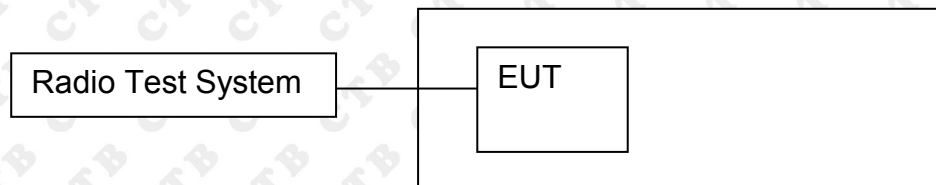
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

Mode	Channel.	Maximum Peak Power [dBm] ant 1	Maximum Peak Power [dBm] ant 2	Total Power Peak Output Power(dBm)	Limit[dBm]
802.11b	LCH	14.604	14.294	/	30
	MCH	14.947	14.003	/	30
	HCH	14.719	14.216	/	30
802.11g	LCH	13.789	13.071	/	30
	MCH	13.938	12.307	/	30
	HCH	13.686	13.088	/	30
802.11n(HT20)	LCH	13.841	13.204	16.544	30
	MCH	14.083	13.493	16.808	30
	HCH	13.92	13.317	16.639	30
802.11n(HT40)	LCH	13.706	12.813	16.293	30
	MCH	13.401	13.626	16.525	30
	HCH	13.302	13.427	16.375	30
802.11ax(HT20)	LCH	13.435	12.824	16.151	30
	MCH	13.713	13.069	16.413	30
	HCH	13.538	12.982	16.279	30
802.11ax(HT40)	LCH	13.778	13.155	16.488	30
	MCH	13.247	13.337	16.303	30
	HCH	13.411	13.346	16.389	30

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	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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	10.352	500	PASS
	MCH	9.956	500	PASS
	HCH	10.192	500	PASS
802.11g	LCH	16.55	500	PASS
	MCH	16.571	500	PASS
	HCH	16.566	500	PASS
802.11n(HT20)	LCH	17.747	500	PASS
	MCH	17.727	500	PASS
	HCH	17.682	500	PASS
802.11n(HT40)	LCH	36.524	500	PASS
	MCH	36.513	500	PASS
	HCH	36.49	500	PASS
802.11ax(HT20)	LCH	17.765	500	PASS
	MCH	17.774	500	PASS
	HCH	17.769	500	PASS
802.11ax(HT40)	LCH	36.542	500	PASS
	MCH	36.529	500	PASS
	HCH	36.496	500	PASS




ANT2:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	11.043	500	PASS
	MCH	10.27	500	PASS
	HCH	10.731	500	PASS
802.11g	LCH	16.535	500	PASS
	MCH	16.383	500	PASS
	HCH	16.557	500	PASS
802.11n(HT20)	LCH	17.7	500	PASS
	MCH	17.731	500	PASS
	HCH	17.713	500	PASS
802.11n(HT40)	LCH	36.506	500	PASS
	MCH	36.492	500	PASS
	HCH	36.486	500	PASS
802.11ax(HT20)	LCH	17.769	500	PASS
	MCH	17.779	500	PASS
	HCH	17.76	500	PASS
802.11ax(HT40)	LCH	36.524	500	PASS
	MCH	36.541	500	PASS
	HCH	36.517	500	PASS


ANT1:
Test Graph:

Graphs	
802.11b /LCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.03 dB</p> <p>Ref: 27.03 dBm</p> <p>Mkr3: 2.417184 GHz</p> <p>-9.2879 dBm</p> <p>Center: 2.412 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.898 MHz</p> <p>Total Power: 16.1 dBm</p> <p>Transmit Freq Error: -12.090 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.35 MHz</p> <p>x dB: -6.00 dB</p>
802.11b /MCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.11 dB</p> <p>Ref: 27.11 dBm</p> <p>Mkr3: 2.44199 GHz</p> <p>-8.1617 dBm</p> <p>Center: 2.437 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.805 MHz</p> <p>Total Power: 16.5 dBm</p> <p>Transmit Freq Error: 12.170 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 9.956 MHz</p> <p>x dB: -6.00 dB</p>
802.11b/HCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.21 dB</p> <p>Ref: 27.21 dBm</p> <p>Mkr3: 2.467033 GHz</p> <p>-8.0513 dBm</p> <p>Center: 2.462 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.913 MHz</p> <p>Total Power: 16.0 dBm</p> <p>Transmit Freq Error: -62.662 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.19 MHz</p> <p>x dB: -6.00 dB</p>

<p>802.11g/LCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.420239 GHz -13.533 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td colspan="3">16.451 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	16.451 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.5 dBm											
16.451 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11g/MCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 27.11 dBm</p> <p>Mkr3: 2.445248 GHz -12.988 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.8 dBm</td> </tr> <tr> <td colspan="3">16.458 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.8 dBm	16.458 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.8 dBm											
16.458 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11g/HCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 7.21 dB Ref: 27.21 dBm</p> <p>Mkr3: 2.470244 GHz -13.287 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td colspan="3">16.451 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	16.451 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.5 dBm											
16.451 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											

<p>802.11n(HT20)/LC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.420854 GHz -13.365 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.2 dBm</td> </tr> <tr> <td colspan="3">17.640 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.2 dBm	17.640 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.2 dBm											
17.640 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11n(HT20)/MC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 27.11 dBm</p> <p>Mkr3: 2.445845 GHz -13.187 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td colspan="3">17.637 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	17.637 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.5 dBm											
17.637 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11n(HT20)/HC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 7.21 dB Ref: 27.21 dBm</p> <p>Mkr3: 2.470809 GHz -13.604 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.3 dBm</td> </tr> <tr> <td colspan="3">17.635 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.3 dBm	17.635 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.3 dBm											
17.635 MHz													
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x dB Bandwidth	x dB	-6.00 dB											




<p>802.11n(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.440249 GHz -16.999 dBm</p> <p>Center: 2.422 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.7 dBm</td> </tr> <tr> <td colspan="3">36.127 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.7 dBm	36.127 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.7 dBm											
36.127 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11n(HT40)/MC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 27.11 dBm</p> <p>Mkr3: 2.455236 GHz -17.701 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.3 dBm</td> </tr> <tr> <td colspan="3">36.128 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.3 dBm	36.128 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.3 dBm											
36.128 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11n(HT40)/HC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.45200000 GHz</p> <p>Ref Offset: 7.3 dB Ref: 27.20 dBm</p> <p>Mkr3: 2.470204 GHz -16.118 dBm</p> <p>Center: 2.452 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.3 dBm</td> </tr> <tr> <td colspan="3">36.099 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.3 dBm	36.099 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.3 dBm											
36.099 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											

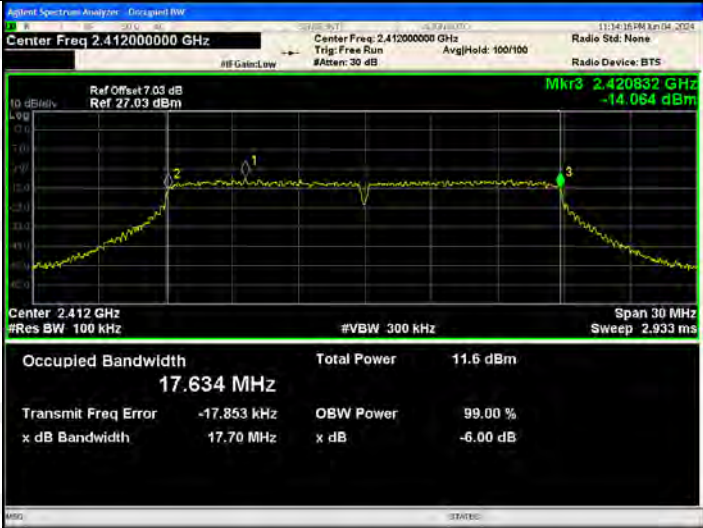
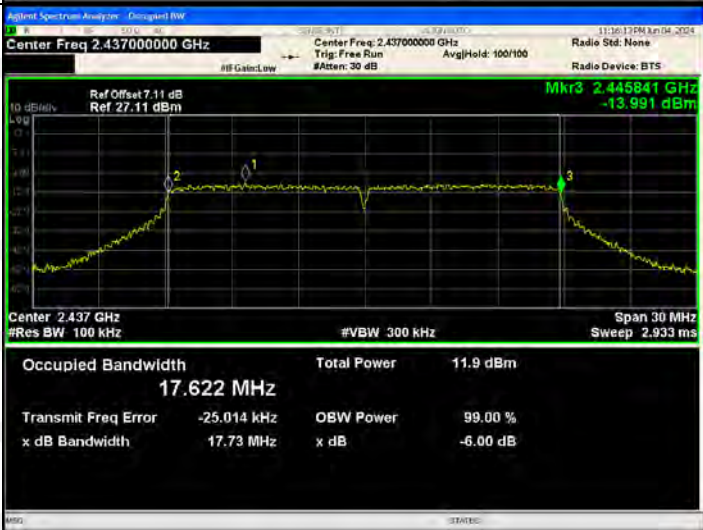

<p>802.11ax(HT20)/LC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 7.03 dB Ref 27.03 dBm</p> <p>Mkr3 2.420859 GHz -13.939 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.3 dBm</td> </tr> <tr> <td>17.637 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-23.285 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>17.76 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.3 dBm	17.637 MHz			Transmit Freq Error	OBW Power	99.00 %	-23.285 kHz	x dB	-6.00 dB	x dB Bandwidth			17.76 MHz		
Occupied Bandwidth	Total Power	12.3 dBm																	
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<p>802.11ax(HT20)/M CH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 7.11 dB Ref 27.11 dBm</p> <p>Mkr3 2.445866 GHz -14.477 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.6 dBm</td> </tr> <tr> <td>17.641 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-21.121 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>17.77 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.6 dBm	17.641 MHz			Transmit Freq Error	OBW Power	99.00 %	-21.121 kHz	x dB	-6.00 dB	x dB Bandwidth			17.77 MHz		
Occupied Bandwidth	Total Power	12.6 dBm																	
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<p>802.11ax(HT20)/H CH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 7.21 dB Ref 27.21 dBm</p> <p>Mkr3 2.470854 GHz -13.694 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td>17.640 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-30.678 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>17.77 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	17.640 MHz			Transmit Freq Error	OBW Power	99.00 %	-30.678 kHz	x dB	-6.00 dB	x dB Bandwidth			17.77 MHz		
Occupied Bandwidth	Total Power	12.5 dBm																	
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<p>802.11ax(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.440272 GHz -17.957 dBm</p> <p>Center: 2.422 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.9 dBm</td> </tr> <tr> <td colspan="3">36.154 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.9 dBm	36.154 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.9 dBm											
36.154 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11ax(HT40)/M CH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 27.11 dBm</p> <p>Mkr3: 2.455248 GHz -16.991 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.5 dBm</td> </tr> <tr> <td colspan="3">36.122 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.5 dBm	36.122 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.5 dBm											
36.122 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											
<p>802.11ax(HT40)/H CH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.45200000 GHz</p> <p>Ref Offset: 7.3 dB Ref: 27.20 dBm</p> <p>Mkr3: 2.470223 GHz -16.995 dBm</p> <p>Center: 2.452 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.6 dBm</td> </tr> <tr> <td colspan="3">36.108 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.6 dBm	36.108 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.6 dBm											
36.108 MHz													
Transmit Freq Error	OBW Power	99.00 %											
x dB Bandwidth	x dB	-6.00 dB											

ANT2:
Test Graph:

Graphs	
<p>802.11b /LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.03 dB</p> <p>Ref: 27.03 dBm</p> <p>Mkr3: 2.417507 GHz</p> <p>-9.5273 dBm</p> <p>Center: 2.412 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.942 MHz</p> <p>Total Power: 15.5 dBm</p> <p>Transmit Freq Error: -14.487 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 11.04 MHz</p> <p>x dB: -6.00 dB</p>
<p>802.11b /MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.11 dB</p> <p>Ref: 27.11 dBm</p> <p>Mkr3: 2.442161 GHz</p> <p>-8.7480 dBm</p> <p>Center: 2.437 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.839 MHz</p> <p>Total Power: 15.7 dBm</p> <p>Transmit Freq Error: 26.212 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.27 MHz</p> <p>x dB: -6.00 dB</p>
<p>802.11b/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.21 dB</p> <p>Ref: 27.21 dBm</p> <p>Mkr3: 2.467296 GHz</p> <p>-8.8178 dBm</p> <p>Center: 2.462 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz</p> <p>Sweep: 2.933 ms</p> <p>Occupied Bandwidth: 14.926 MHz</p> <p>Total Power: 15.7 dBm</p> <p>Transmit Freq Error: -69.288 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 10.73 MHz</p> <p>x dB: -6.00 dB</p>

<p>802.11g/LCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 7.03 dB Ref 27.03 dBm</p> <p>Mkr3 2.420225 GHz -13.674 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.9 dBm</td> </tr> <tr> <td colspan="3">16.473 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	11.9 dBm	16.473 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
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<p>802.11g/MCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 7.11 dB Ref 27.11 dBm</p> <p>Mkr3 2.445183 GHz -15.065 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>9.47 dBm</td> </tr> <tr> <td colspan="3">16.468 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	9.47 dBm	16.468 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
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<p>802.11g/HCH</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 7.21 dB Ref 27.21 dBm</p> <p>Mkr3 2.470236 GHz -14.478 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.9 dBm</td> </tr> <tr> <td colspan="3">16.446 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	11.9 dBm	16.446 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
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<p>802.11n(HT20)/LC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 7.03 dB Ref 27.03 dBm</p> <p>Mkr3 2.420832 GHz -14.064 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.6 dBm</td> </tr> <tr> <td colspan="3">17.634 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	11.6 dBm	17.634 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
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<p>802.11n(HT20)/MC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 7.11 dB Ref 27.11 dBm</p> <p>Mkr3 2.445841 GHz -13.991 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.9 dBm</td> </tr> <tr> <td colspan="3">17.622 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	11.9 dBm	17.622 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB
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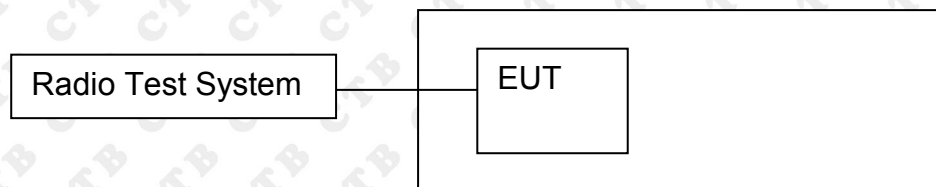
<p>802.11n(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.440242 GHz -18.263 dBm</p> <p>Center: 2.422 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz Sweep: 5.8 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.7 dBm</td> </tr> <tr> <td colspan="3">36.126 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	11.7 dBm	36.126 MHz			Transmit Freq Error	OBW Power	99.00 %	x dB Bandwidth	x dB	-6.00 dB	
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<p>802.11ax(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 27.03 dBm</p> <p>Mkr3: 2.420865 GHz -15.953 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.8 dBm</td> </tr> <tr> <td>17.636 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-19.451 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>17.77 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	11.8 dBm	17.636 MHz			Transmit Freq Error	OBW Power	99.00 %	-19.451 kHz	x dB	-6.00 dB	x dB Bandwidth			17.77 MHz		
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<p>802.11ax(HT20)/H CH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 7.21 dB Ref: 27.21 dBm</p> <p>Mkr3: 2.470855 GHz -14.492 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 30 MHz Sweep: 2.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>11.8 dBm</td> </tr> <tr> <td>17.640 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-25.390 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>17.76 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	11.8 dBm	17.640 MHz			Transmit Freq Error	OBW Power	99.00 %	-25.390 kHz	x dB	-6.00 dB	x dB Bandwidth			17.76 MHz		
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<p>802.11ax(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.03 dB</p> <p>Ref: 27.03 dBm</p> <p>Mkr3: 2.440263 GHz</p> <p>-16.961 dBm</p> <p>Center: 2.422 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz</p> <p>Sweep: 5.8 ms</p> <p>Occupied Bandwidth: 36.127 MHz</p> <p>Total Power: 12.4 dBm</p> <p>Transmit Freq Error: 1.306 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.52 MHz</p> <p>x dB: -6.00 dB</p>
<p>802.11ax(HT40)/M CH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.11 dB</p> <p>Ref: 27.11 dBm</p> <p>Mkr3: 2.45526 GHz</p> <p>-16.462 dBm</p> <p>Center: 2.437 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz</p> <p>Sweep: 5.8 ms</p> <p>Occupied Bandwidth: 36.132 MHz</p> <p>Total Power: 12.5 dBm</p> <p>Transmit Freq Error: -10.395 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.54 MHz</p> <p>x dB: -6.00 dB</p>
<p>802.11ax(HT40)/H CH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.45200000 GHz</p> <p>Center Freq: 2.45200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 7.3 dB</p> <p>Ref: 27.20 dBm</p> <p>Mkr3: 2.470236 GHz</p> <p>-17.120 dBm</p> <p>Center: 2.452 GHz</p> <p>#Res BW: 100 kHz</p> <p>#VBW: 300 kHz</p> <p>Span: 60 MHz</p> <p>Sweep: 5.8 ms</p> <p>Occupied Bandwidth: 36.120 MHz</p> <p>Total Power: 12.5 dBm</p> <p>Transmit Freq Error: -22.663 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.52 MHz</p> <p>x dB: -6.00 dB</p>

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.

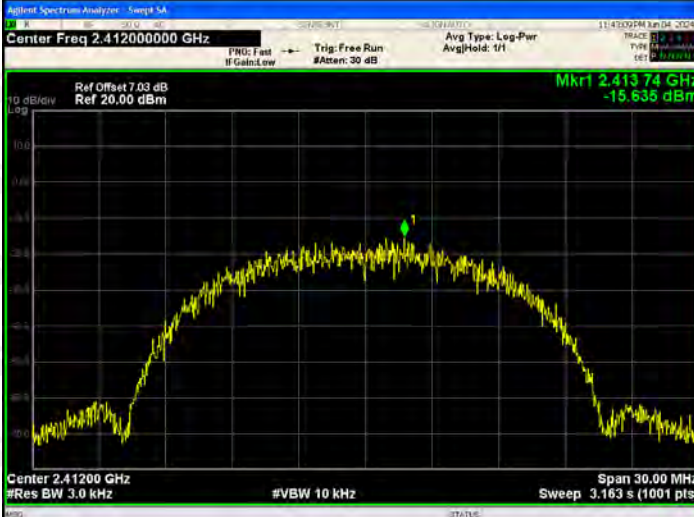
11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3KHz] ANT 1	Power Spectral Density [dBm /3KHz] ANT 2	Power Spectral Density [dBm /3KHz]Total	Limit(dBm)
802.11b	LCH	-15.635	-16.593	/	8
	MCH	-14.866	-15.093	/	8
	HCH	-15.297	-17.112	/	8
802.11g	LCH	-17.545	-19.548	/	8
	MCH	-19.071	-18.688	/	8
	HCH	-18.693	-19.602	/	8
802.11n(H T20)	LCH	-18.428	-19.704	-16.009	8
	MCH	-19.154	-19.538	-16.331	8
	HCH	-19.701	-19.026	-16.340	8
802.11n(H T40)	LCH	-21.78	-22.713	-19.211	8
	MCH	-22.255	-22.572	-19.400	8
	HCH	-21.15	-21.641	-18.378	8
802.11ax(HT20)	LCH	-17.769	-19.678	-15.609	8
	MCH	-18.888	-18.774	-15.820	8
	HCH	-19.19	-20.109	-16.615	8
802.11ax(HT40)	LCH	-21.819	-22.558	-19.163	8
	MCH	-22.276	-21.824	-19.034	8
	HCH	-21.674	-22.368	-18.997	8

**ANT1:
Test Graph**

Graphs

802.11b /LCH

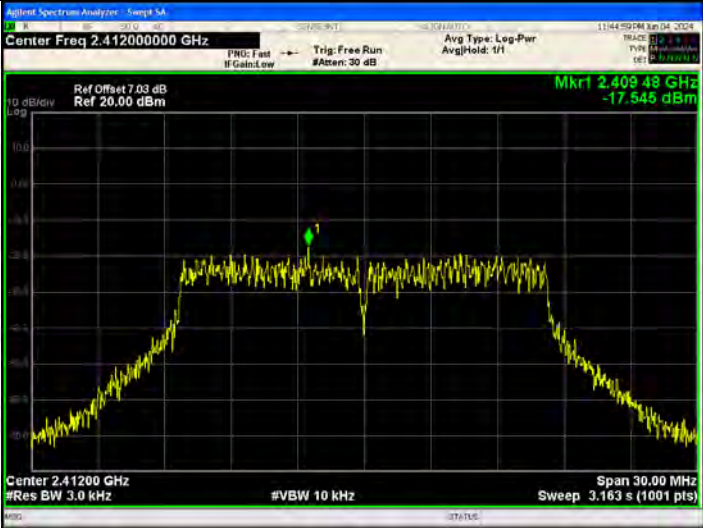
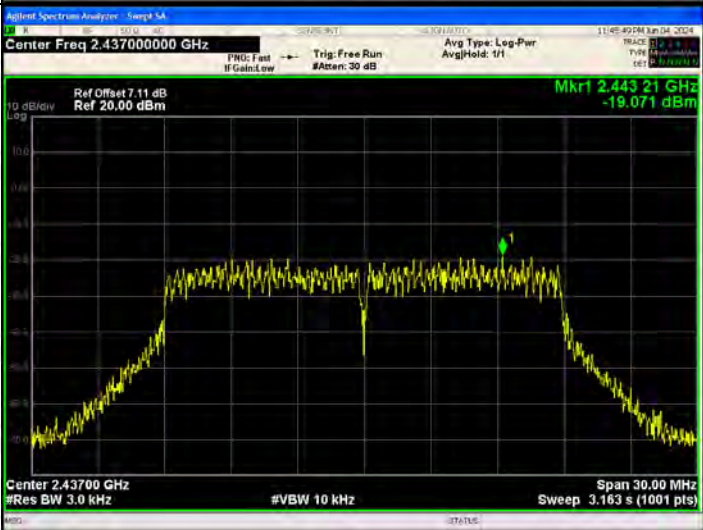



802.11b /MCH



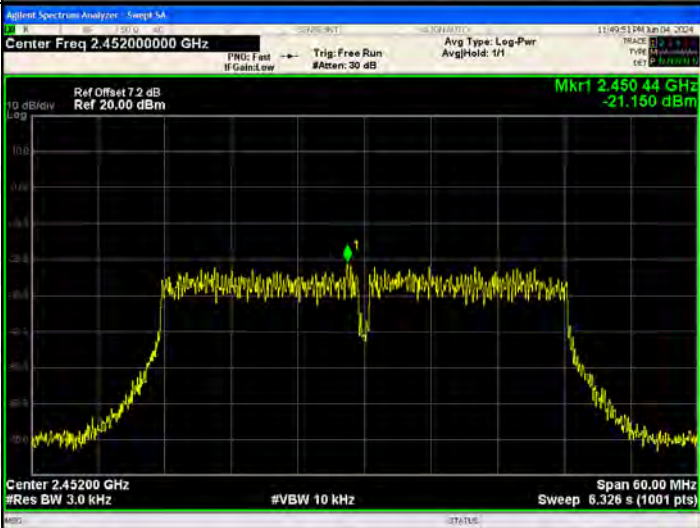


802.11b/HCH


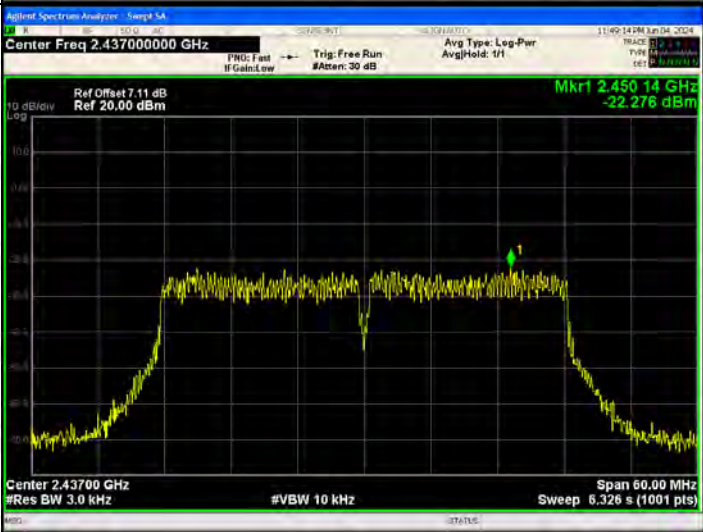



<p>802.11g/LCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.40948 GHz -17.545 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/MCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.44321 GHz -19.071 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/HCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset: 7.21 dB Ref 20.00 dBm</p> <p>Mkr1 2.46659 GHz -18.693 dBm</p> <p>Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>

<p>802.11n(HT20)/LCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.40673 GHz -18.428 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11n(HT20)/MCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.43226 GHz -19.154 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11n(HT20)/HCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset: 7.21 dB Ref 20.00 dBm</p> <p>Mkr1 2.46794 GHz -19.701 dBm</p> <p>Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>




<p>802.11n(HT40)/LCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 20.00 dBm</p> <p>Mkr1 2.43070 GHz -21.780 dBm</p> <p>Center 2.4220 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>
<p>802.11n(HT40)/MCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 20.00 dBm</p> <p>Mkr1 2.43514 GHz -22.255 dBm</p> <p>Center 2.4370 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>
<p>802.11n(HT40)/HCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.45200000 GHz</p> <p>Ref Offset: 7.2 dB Ref: 20.00 dBm</p> <p>Mkr1 2.45044 GHz -21.150 dBm</p> <p>Center 2.4520 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>

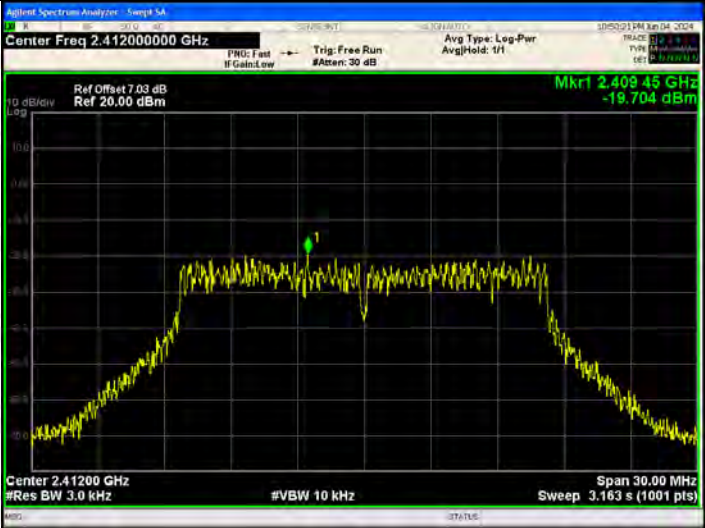


<p>802.11ax(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.41947 GHz -17.789 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz</p> <p>#VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11ax(HT20)/MC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.43325 GHz -18.888 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz</p> <p>#VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11ax(HT20)/HC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 7.21 dB Ref 20.00 dBm</p> <p>Mkr1 2.45477 GHz -19.190 dBm</p> <p>Center 2.46200 GHz #Res BW 3.0 kHz</p> <p>#VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11ax(HT40)/LC H</p>	
<p>802.11ax(HT40)/MC H</p>	
<p>802.11ax(HT40)/HC H</p>	

**ANT 2:
Test Graph**




Graphs	
802.11b /LCH	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 2.41200000 GHz Ref Offset 7.03 dB Ref 20.00 dBm Mkr1 2.413 08 GHz -16.593 dBm Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>
802.11b /MCH	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 2.43700000 GHz Ref Offset 7.11 dB Ref 20.00 dBm Mkr1 2.437 75 GHz -15.093 dBm Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>
802.11b/HCH	<p>Agilent Spectrum Analyzer - Sweep 5A Center Freq 2.46200000 GHz Ref Offset 7.21 dB Ref 20.00 dBm Mkr1 2.463 08 GHz -17.112 dBm Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts)</p>

<p>802.11g/LCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.41944 GHz -19.548 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/MCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.44102 GHz -18.888 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/HCH</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.44102 GHz -18.888 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11n(HT20)/LCH</p>	
<p>802.11n(HT20)/MCH</p>	
<p>802.11n(HT20)/HCH</p>	

<p>802.11n(HT40)/LCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref: 20.00 dBm</p> <p>Mkr1 2.43442 GHz -22.713 dBm</p> <p>Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>
<p>802.11n(HT40)/MCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref: 20.00 dBm</p> <p>Mkr1 2.43538 GHz -22.572 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>
<p>802.11n(HT40)/HCH</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.45200000 GHz</p> <p>Ref Offset: 7.2 dB Ref: 20.00 dBm</p> <p>Mkr1 2.45730 GHz -21.641 dBm</p> <p>Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>

<p>802.11ax(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset: 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.41944 GHz -19.678 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11ax(HT20)/MC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.44102 GHz -18.774 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11ax(HT20)/HC H</p>	<p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset: 7.21 dB Ref 20.00 dBm</p> <p>Mkr1 2.45945 GHz -20.109 dBm</p> <p>Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz</p> <p>Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11ax(HT40)/LC H</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset: 7.03 dB Ref 20.00 dBm</p> <p>Mkr1 2.420 14 GHz -22.558 dBm</p> <p>Center 2.4220 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)</p>
<p>802.11ax(HT40)/MC H</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset: 7.11 dB Ref 20.00 dBm</p> <p>Mkr1 2.452 30 GHz -21.824 dBm</p> <p>Center 2.4370 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)</p>
<p>802.11ax(HT40)/HC H</p>	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.45200000 GHz</p> <p>Ref Offset: 7.2 dB Ref 20.00 dBm</p> <p>Mkr1 2.467 60 GHz -22.388 dBm</p> <p>Center 2.4520 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)</p>

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.

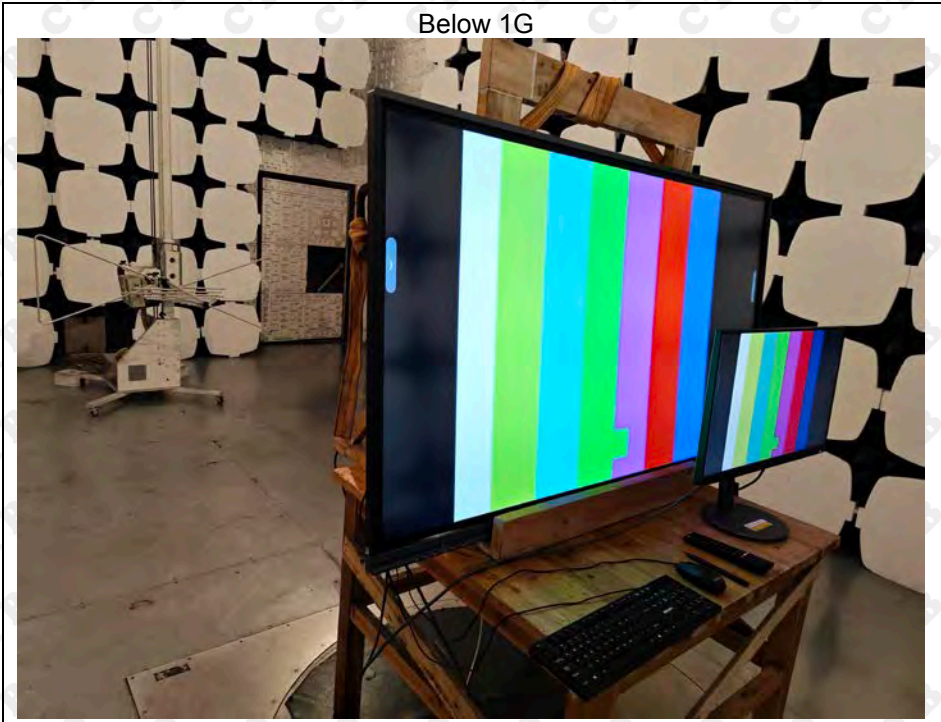
EUT Antenna:

The antenna is External antenna and no consideration of replacement. The best case gain of the antenna is 2.75dBi

13. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

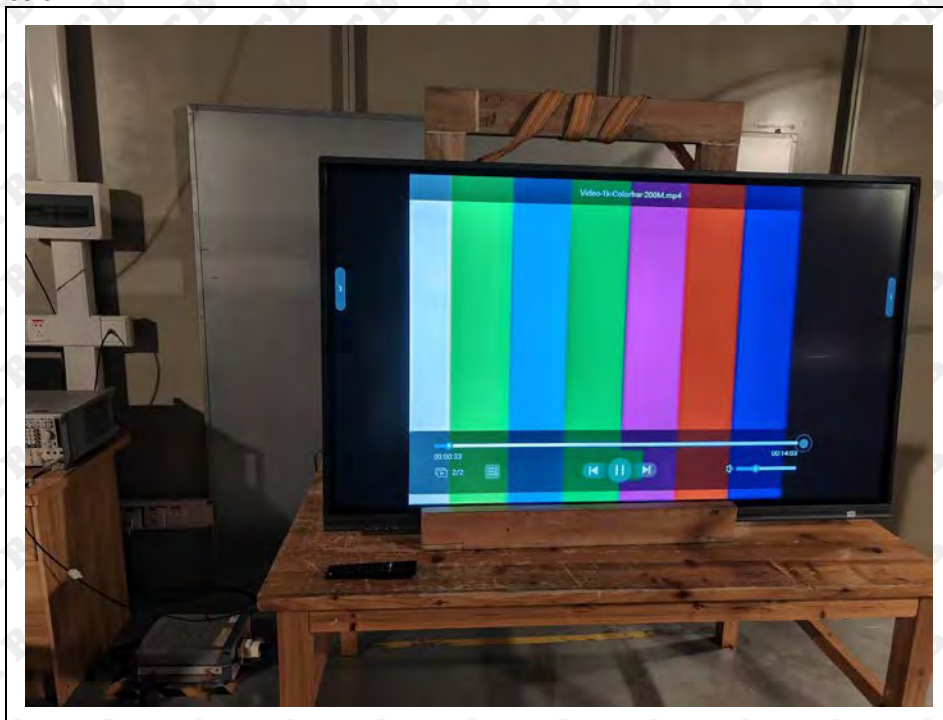
Below 1G



Above 1G



Conducted Emission



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