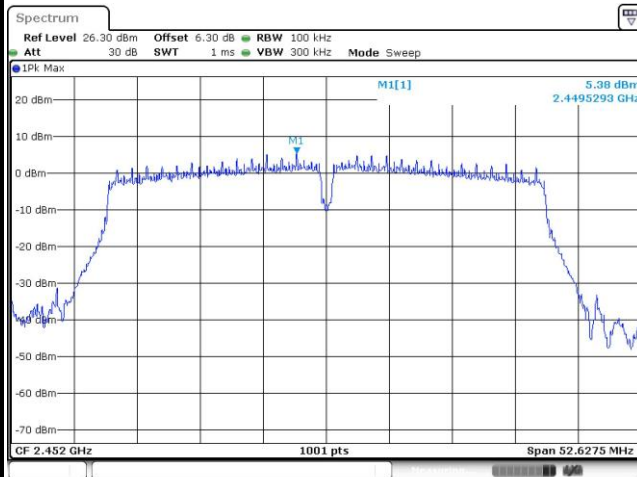




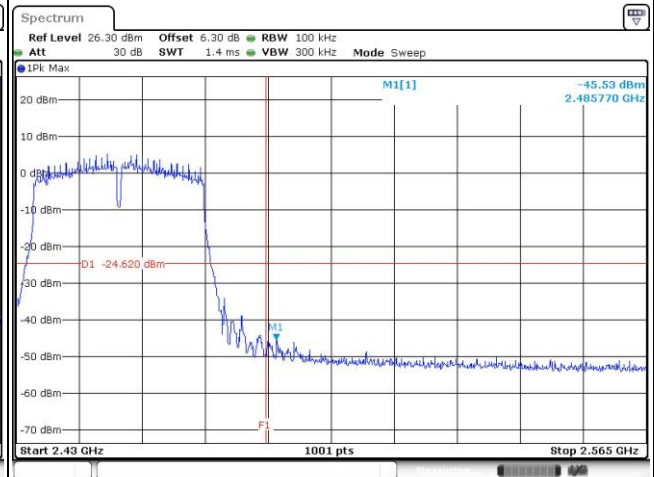
Test Mode :	802.11n HT40	Test Channel :	09
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100kHz PSD reference Level



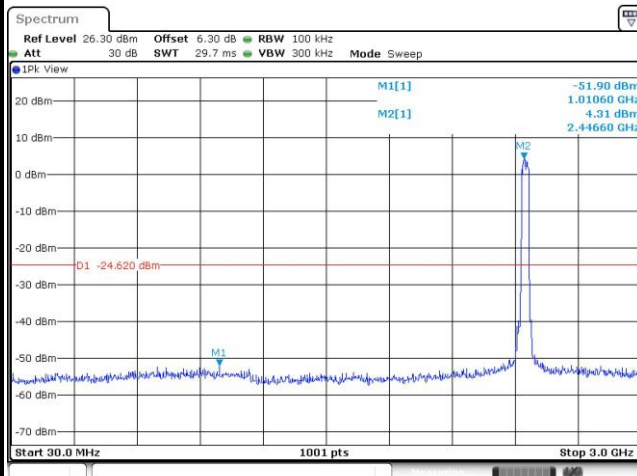
Date: 10 NOV 2020 15:10:15

Channel Plot



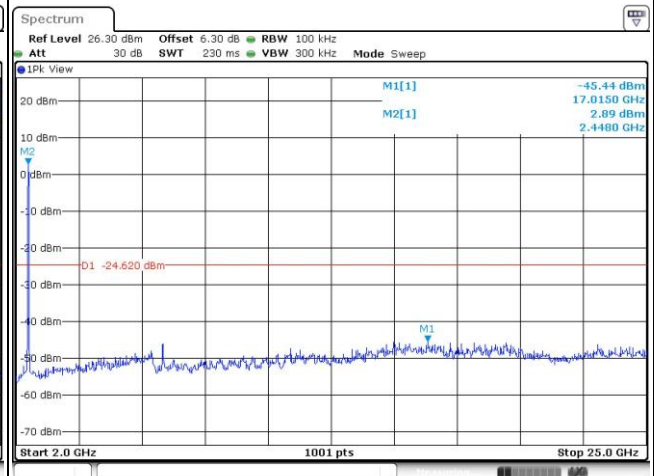
Date: 10 NOV 2020 15:10:25

Spurious Emission 30MHz~3GHz



Date: 10 NOV 2020 15:10:37

Spurious Emission 2GHz~25GHz



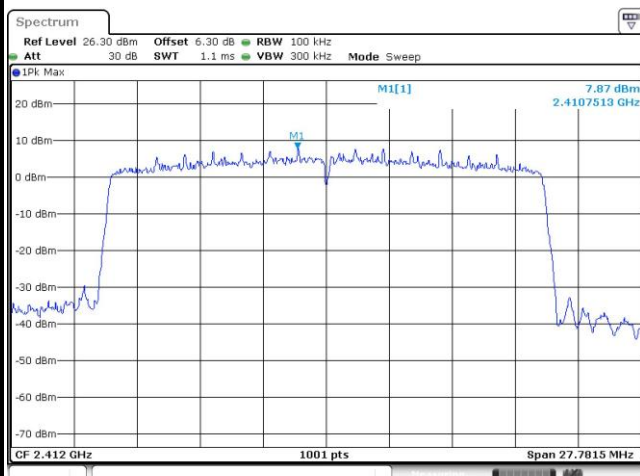
Date: 10 NOV 2020 15:10:46



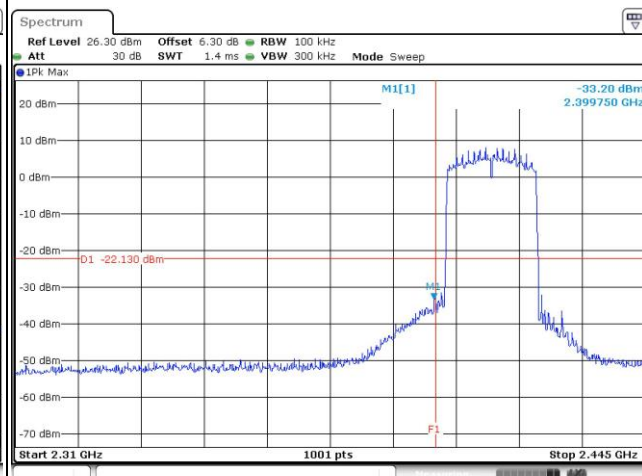
Test Mode : 802.11ax HE20

Test Channel : 01

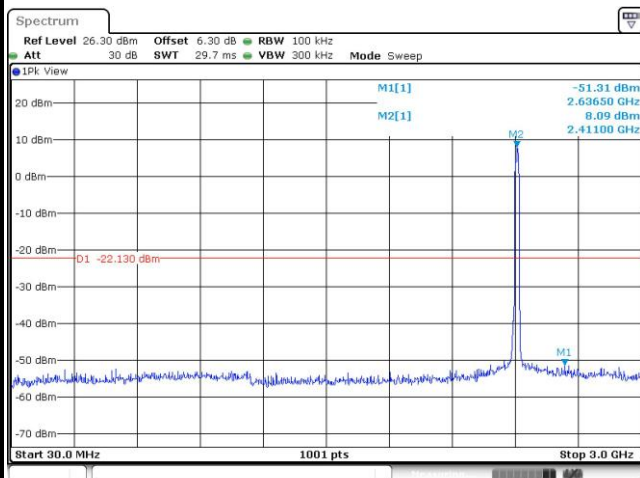
100kHz PSD reference Level



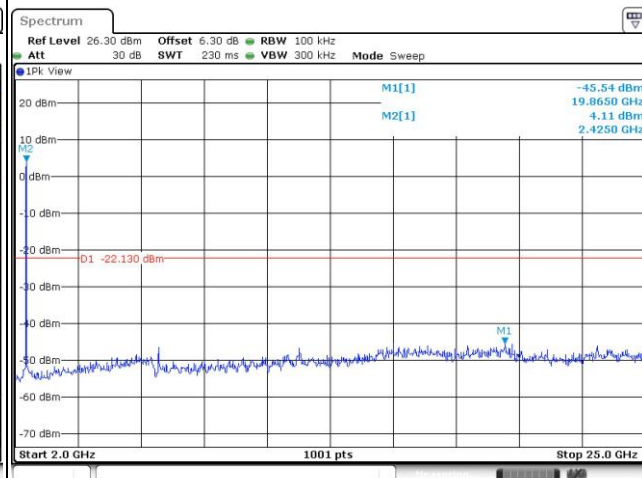
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

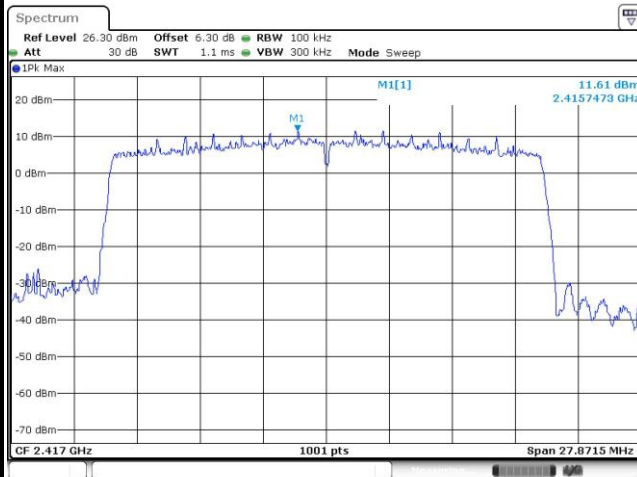




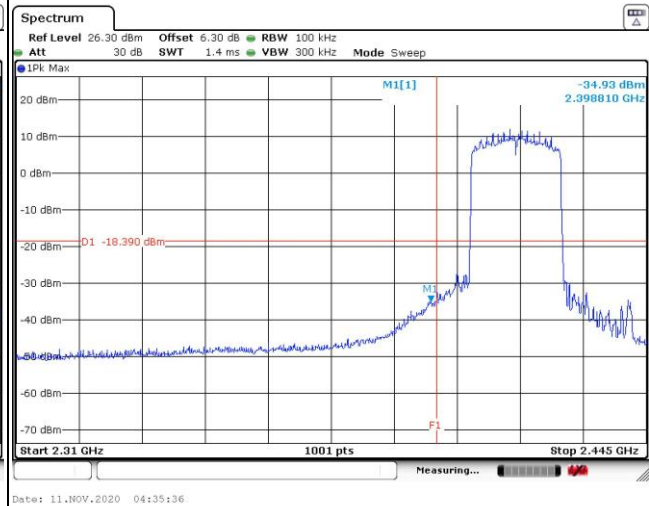
Test Mode : 802.11ax HE20

Test Channel : 02

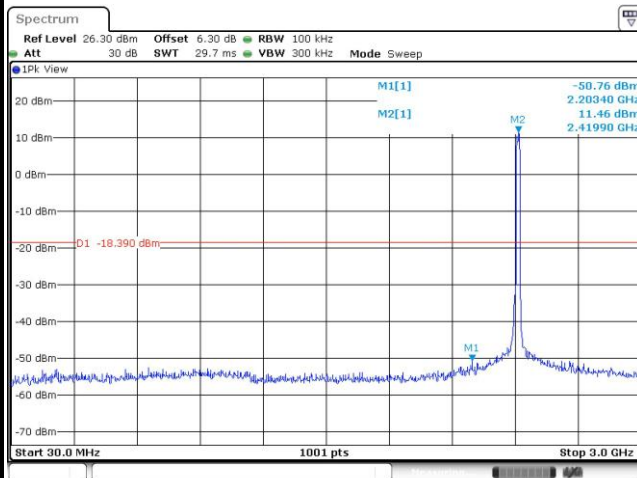
100kHz PSD reference Level



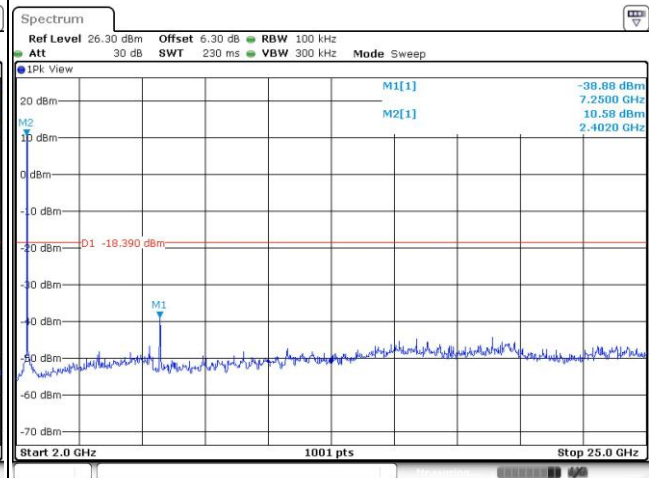
Channel Plot



Spurious Emission 30MHz~3GHz

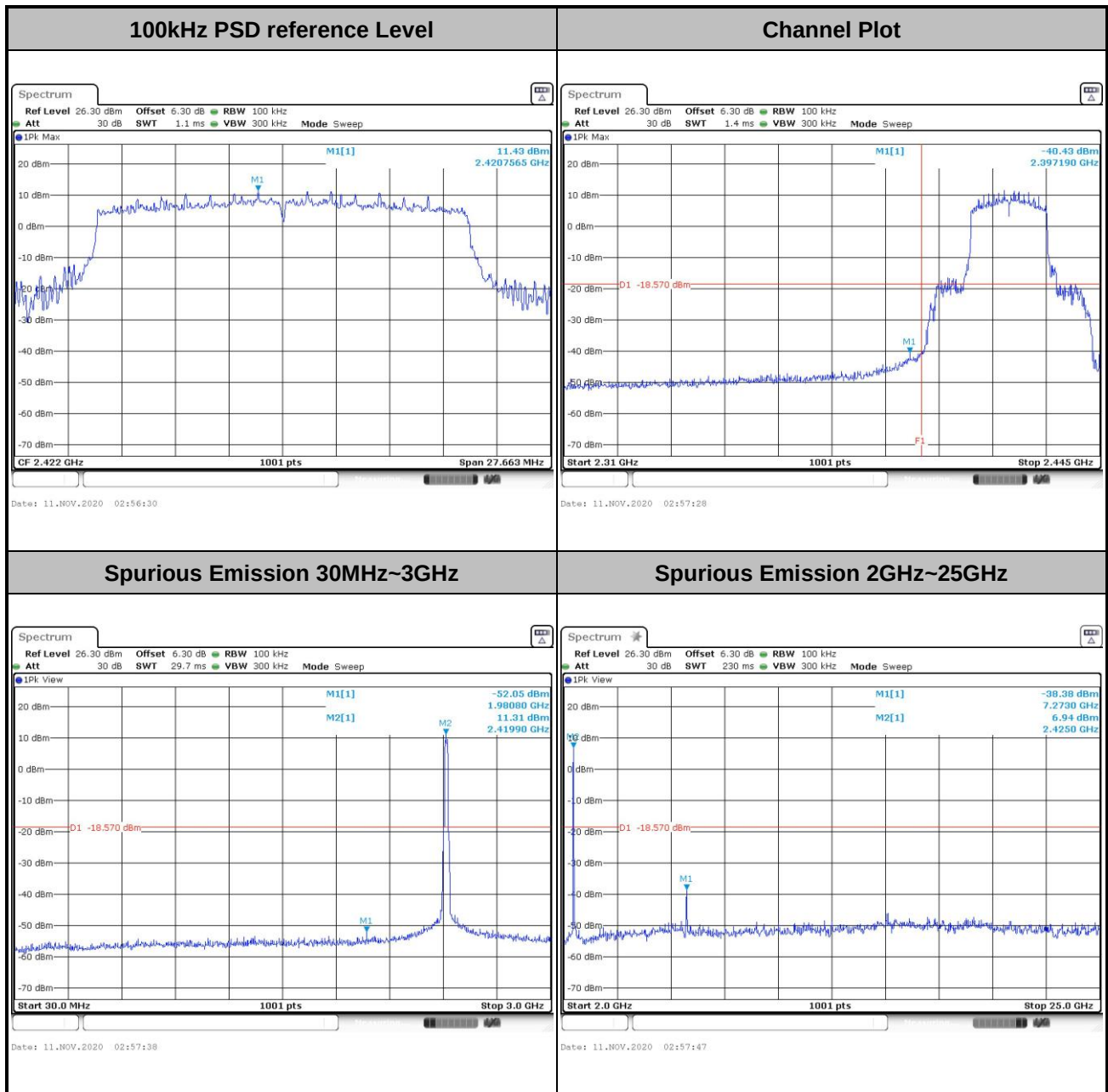


Spurious Emission 2GHz~25GHz



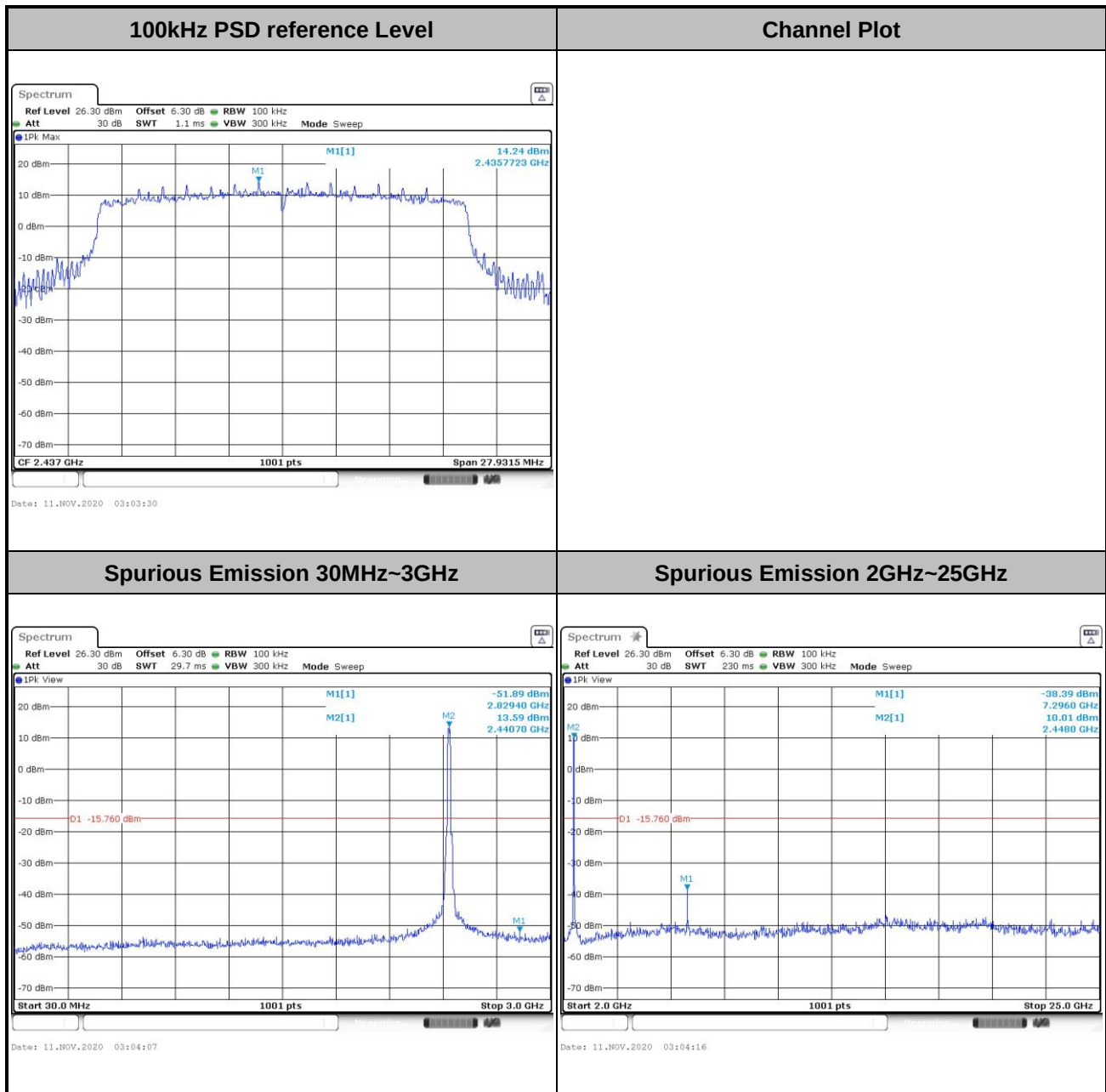


Test Mode :	802.11ax HE20	Test Channel :	03
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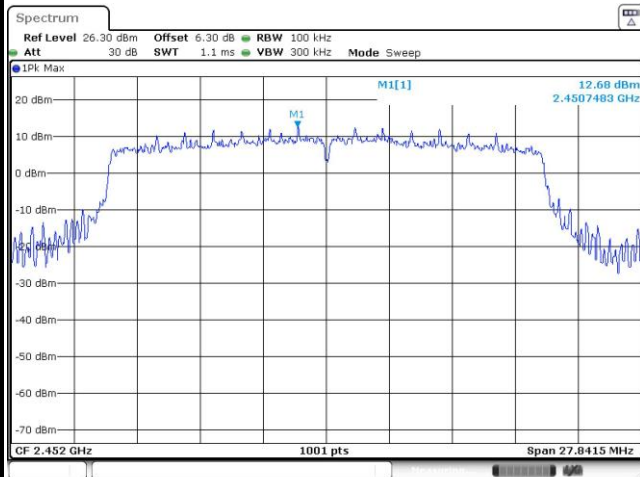
Test Mode :	802.11ax HE20	Test Channel :	06
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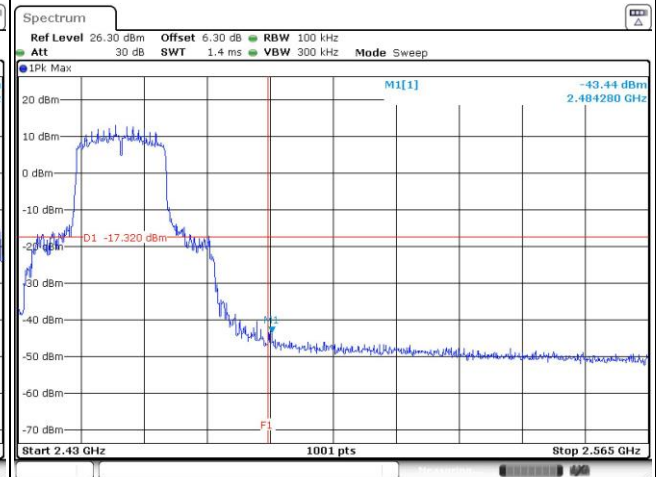


Test Mode :	802.11ax HE20	Test Channel :	09
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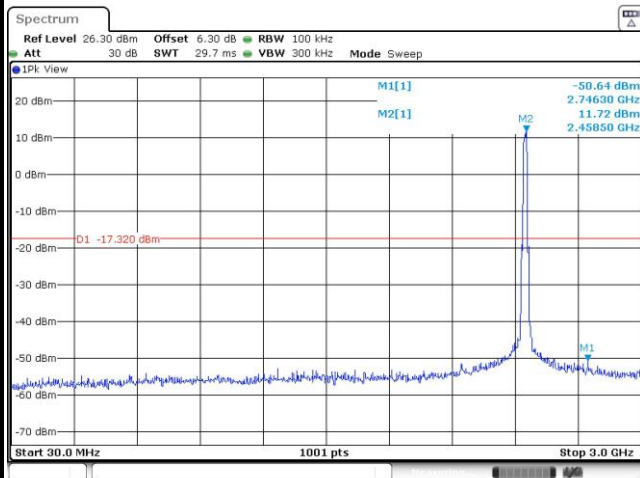
100kHz PSD reference Level



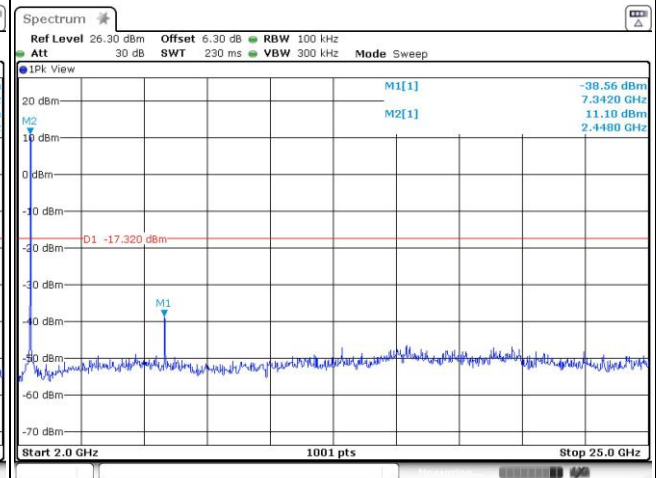
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

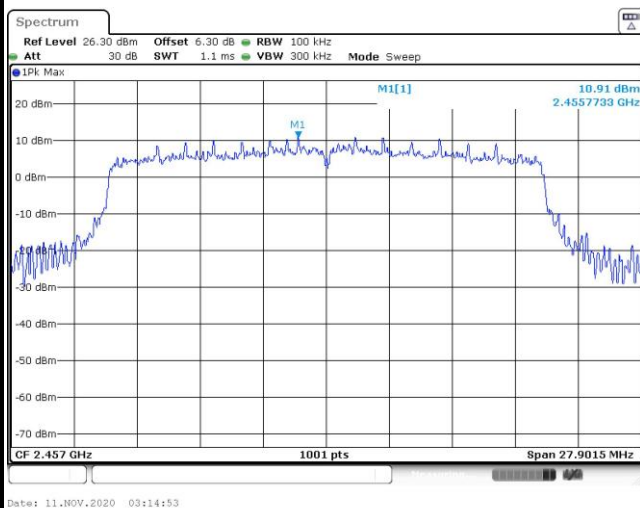




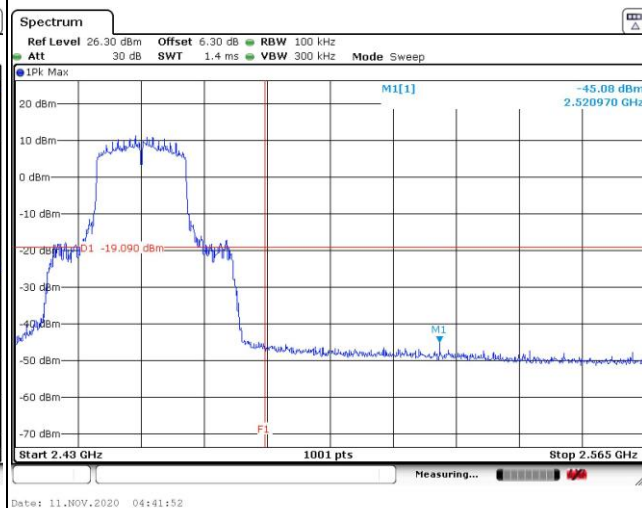
Test Mode : 802.11ax HE20

Test Channel : 10

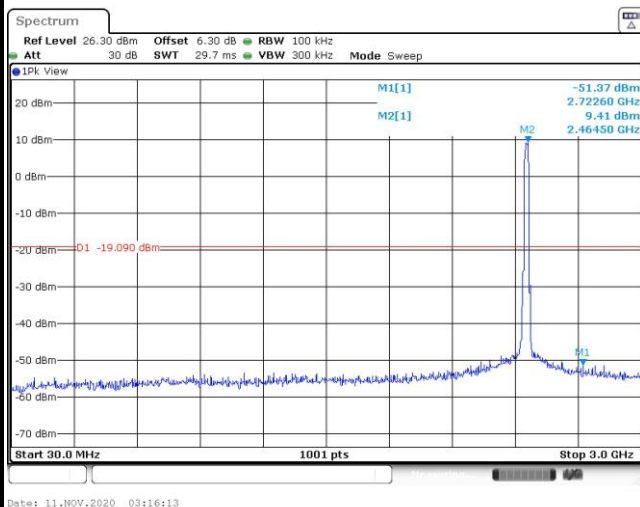
100kHz PSD reference Level



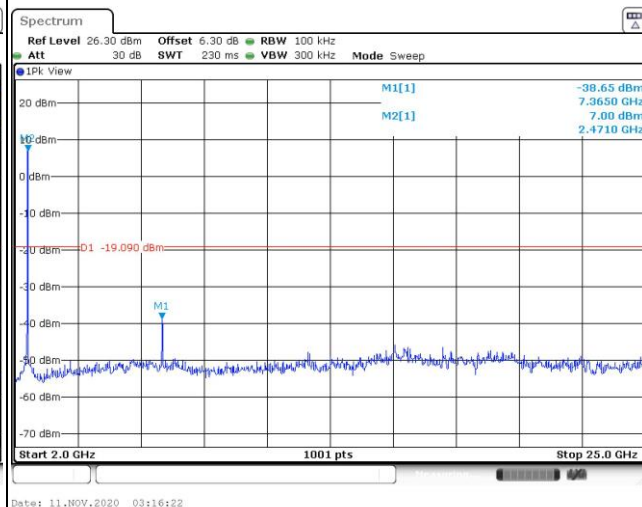
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

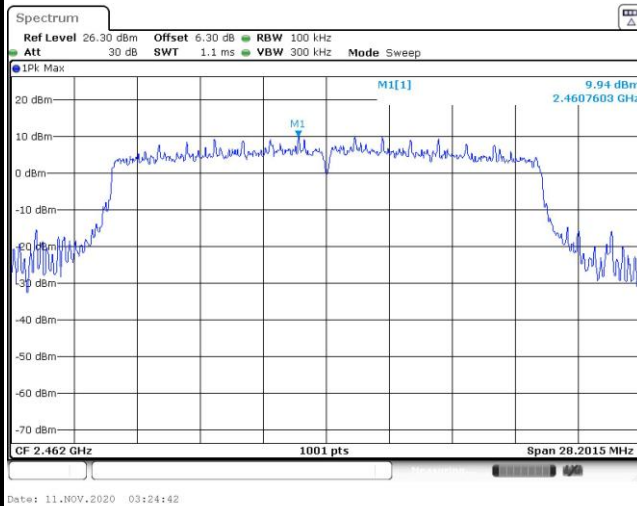




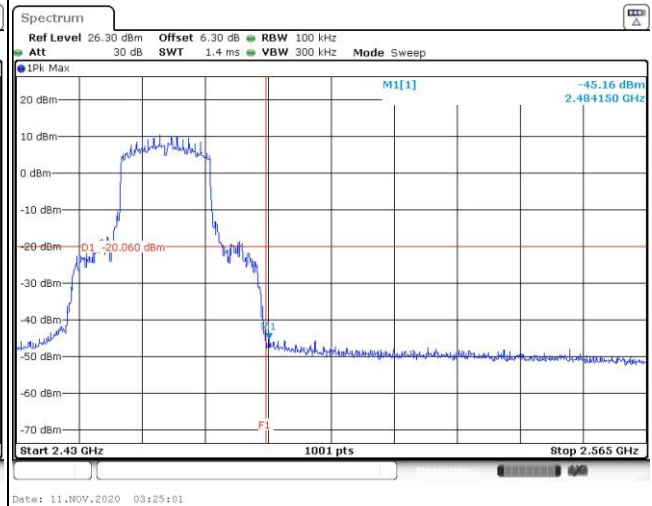
Test Mode : 802.11ax HE20

Test Channel : 11

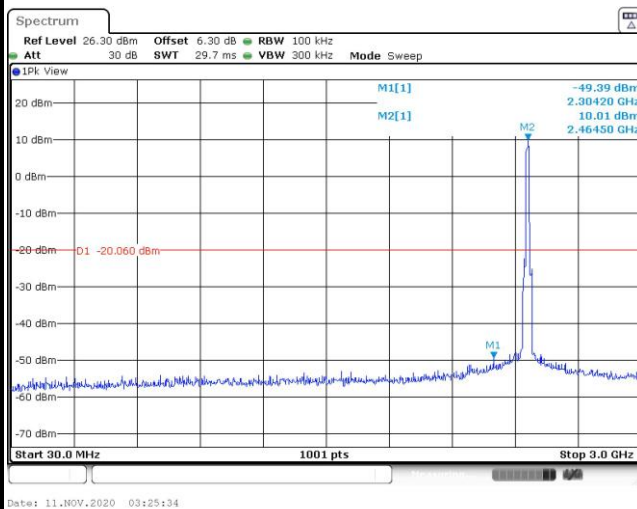
100kHz PSD reference Level



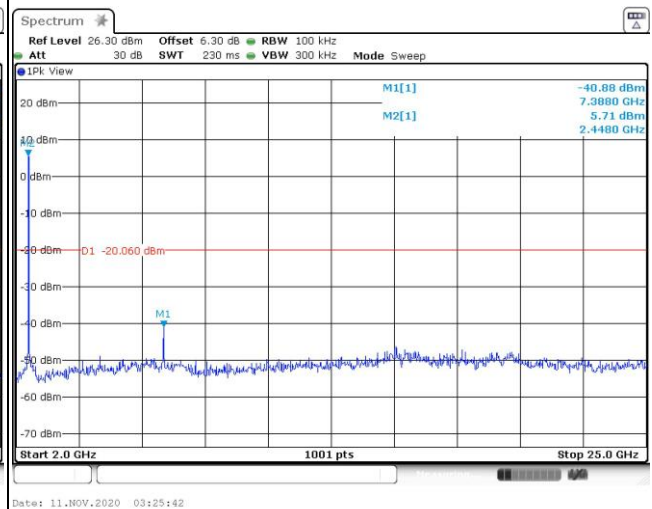
Channel Plot



Spurious Emission 30MHz~3GHz

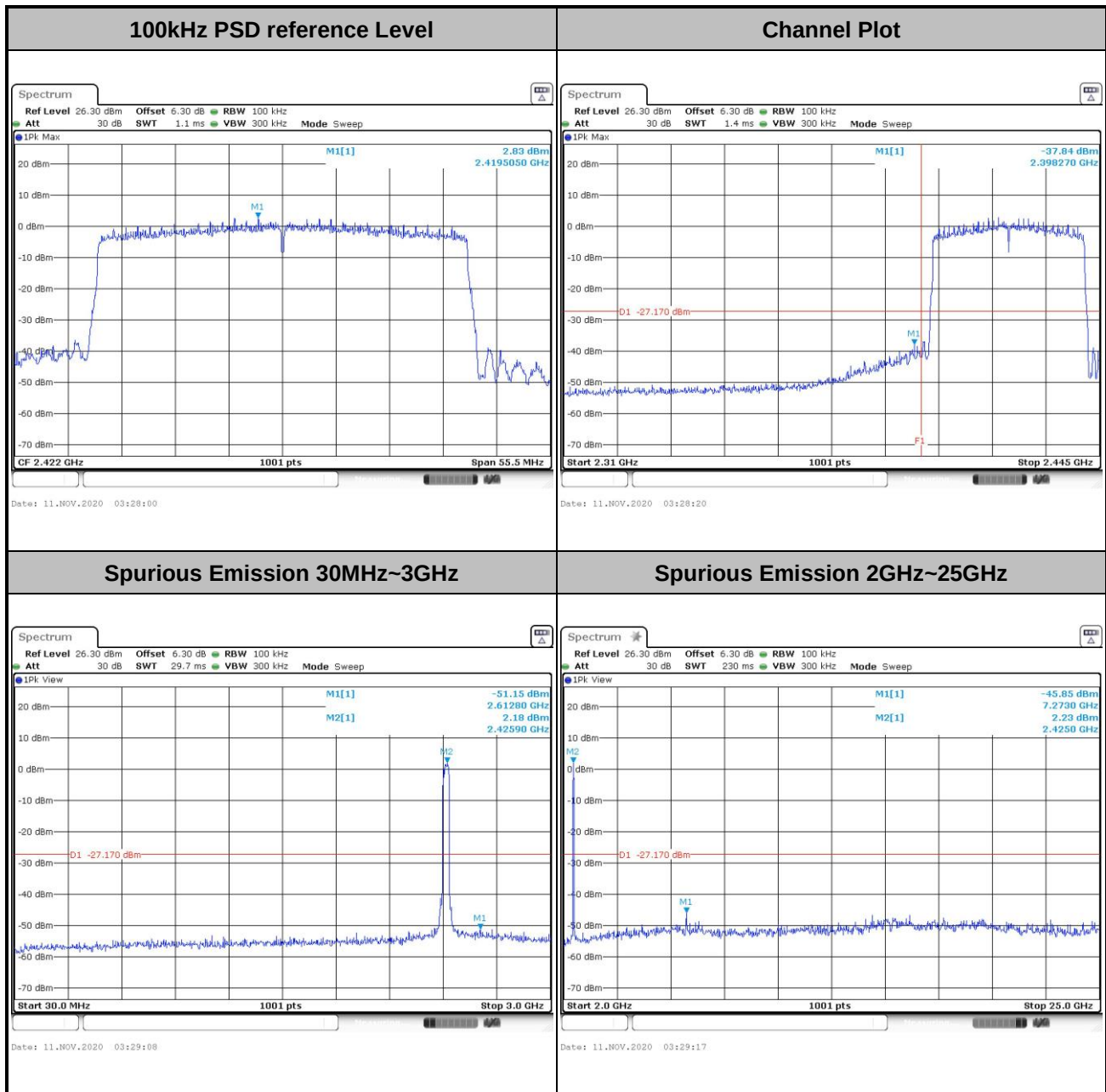


Spurious Emission 2GHz~25GHz



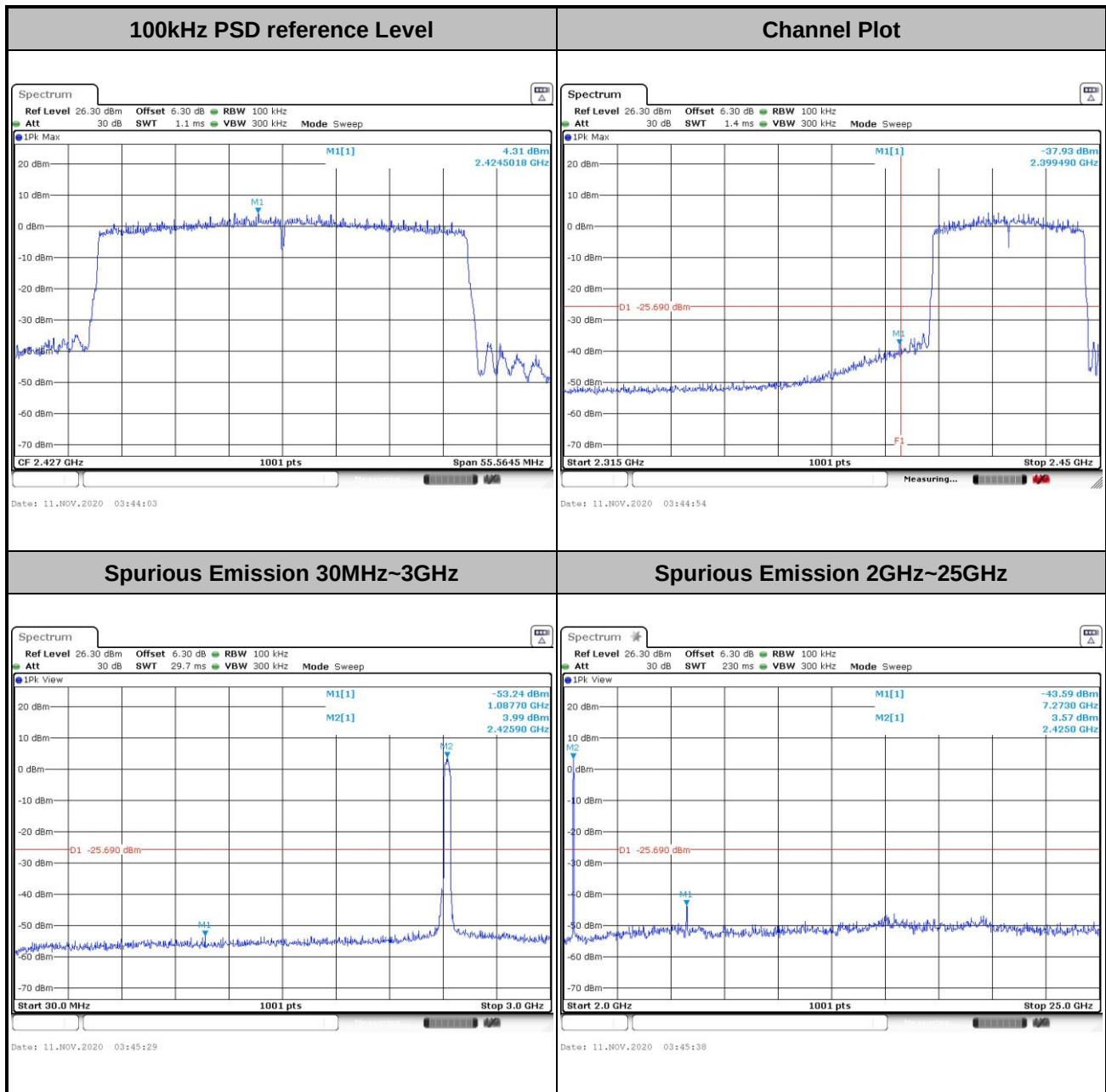


Test Mode :	802.11ax HE40	Test Channel :	03
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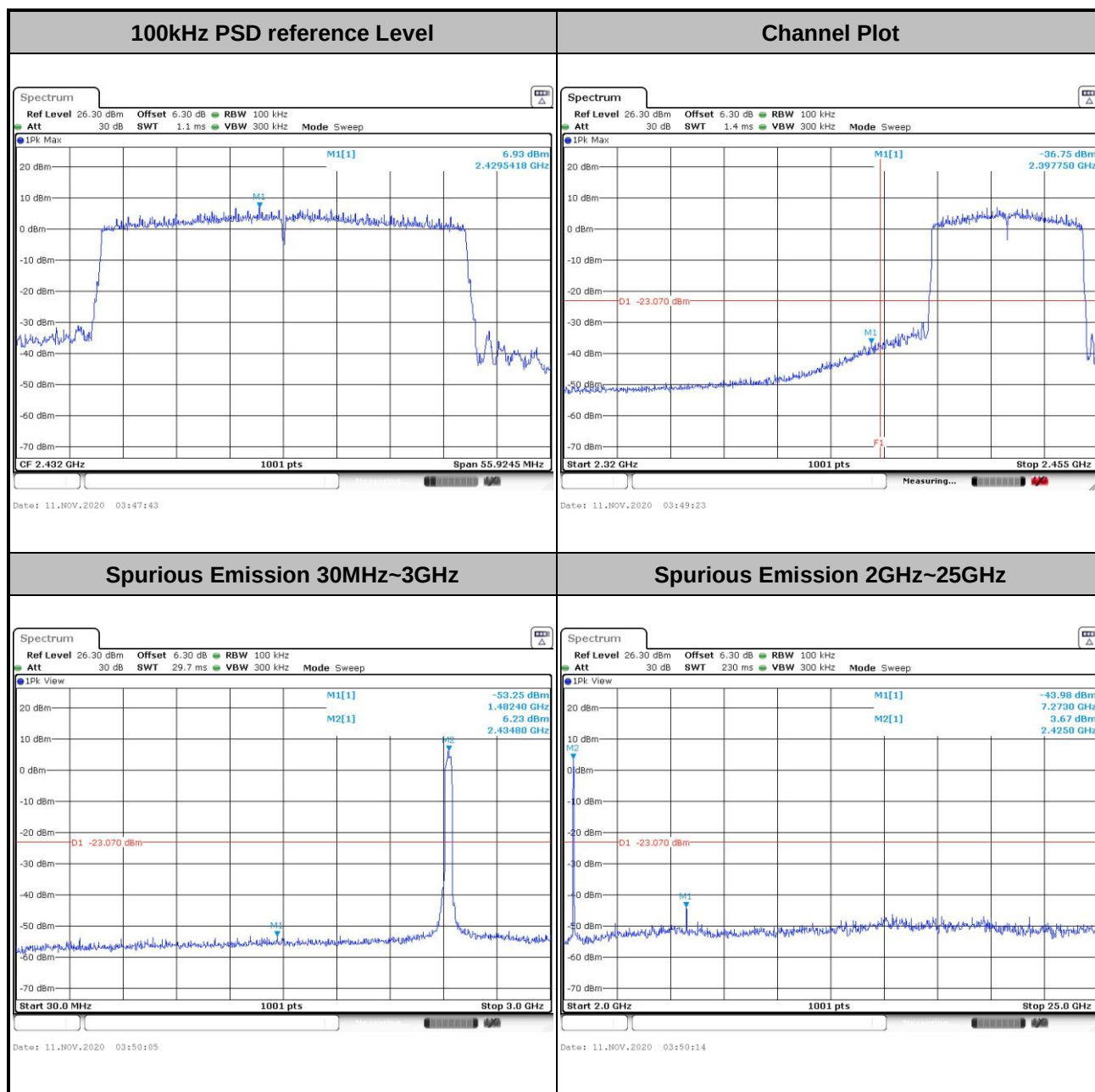


Test Mode :	802.11ax HE40	Test Channel :	04
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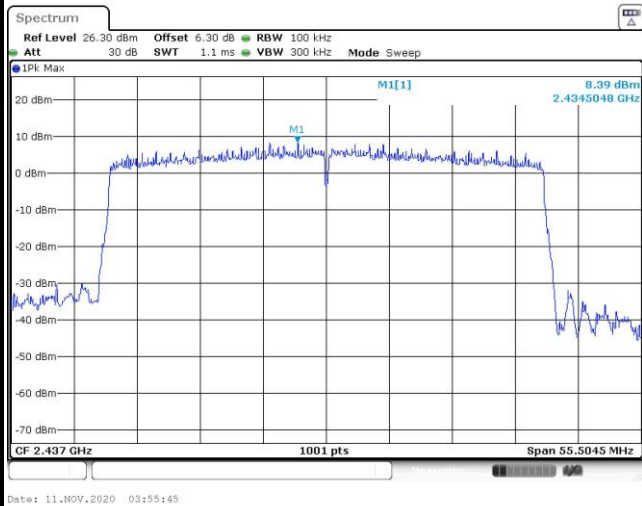
Test Mode :	802.11ax HE40	Test Channel :	05
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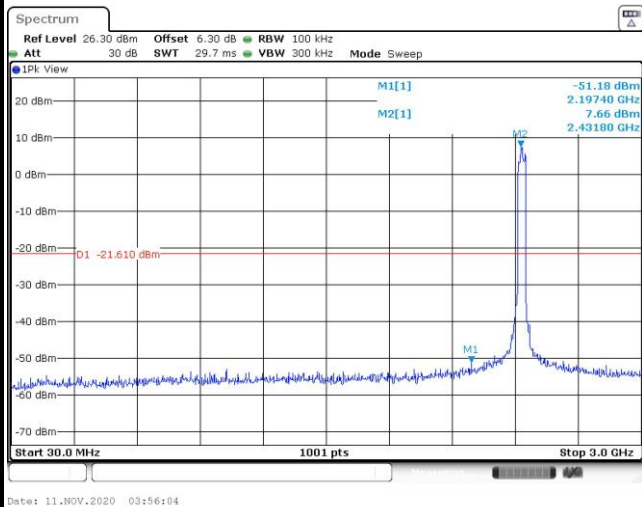
Test Mode :	802.11ax HE40	Test Channel :	06
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100kHz PSD reference Level

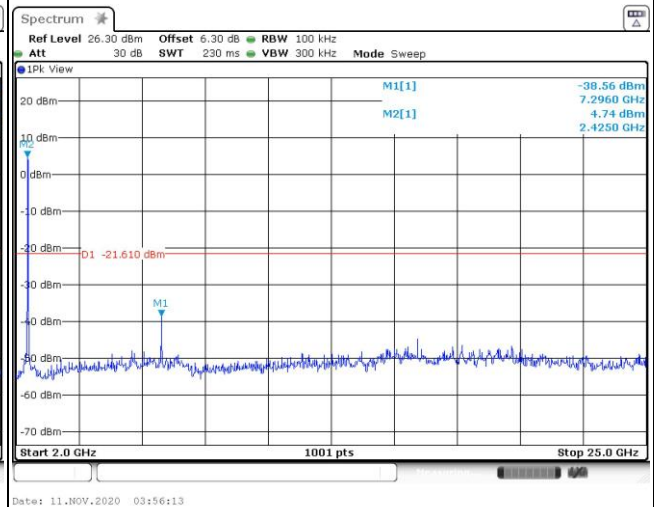


Channel Plot

Spurious Emission 30MHz~3GHz

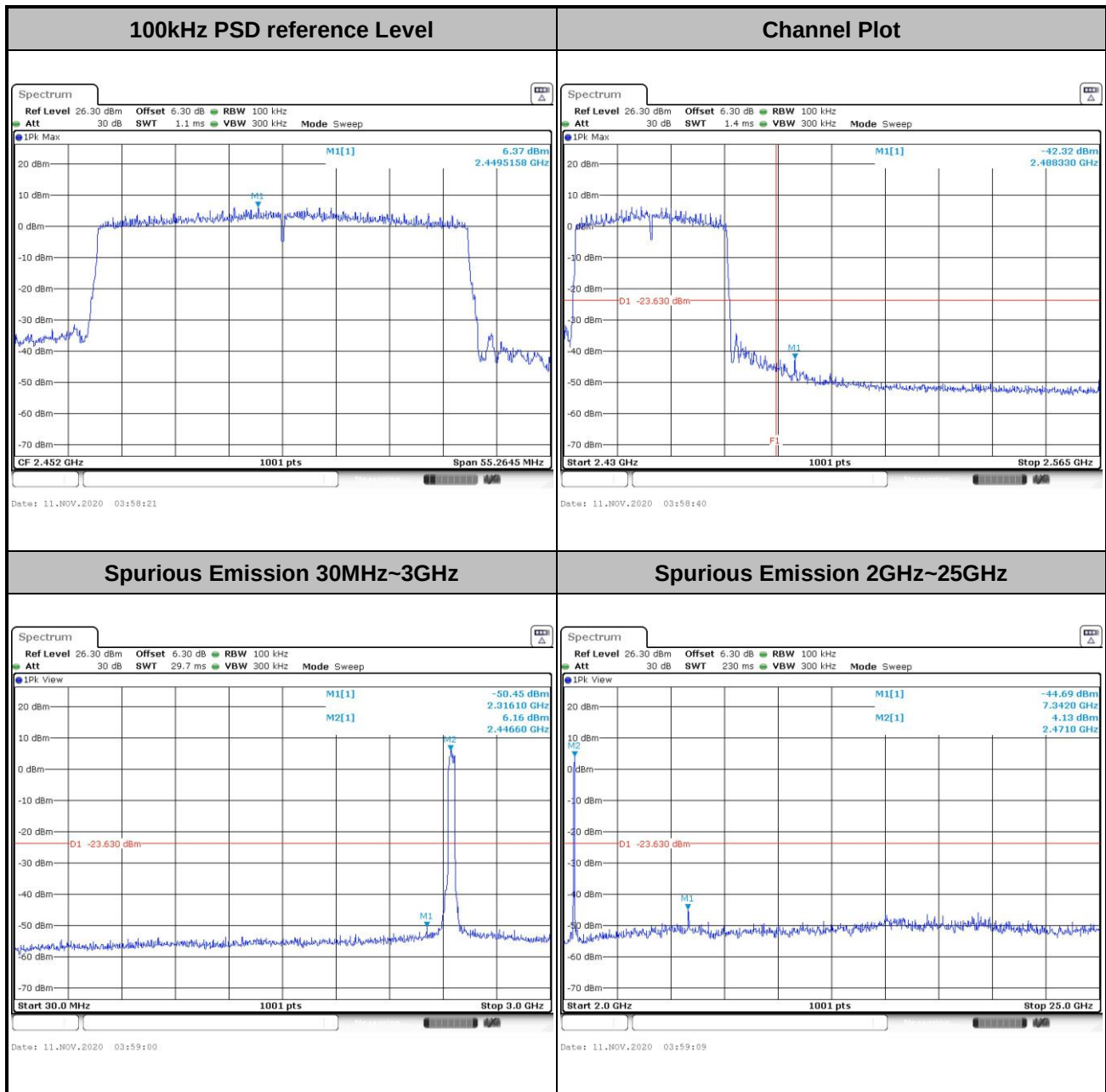


Spurious Emission 2GHz~25GHz





Test Mode :	802.11ax HE40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

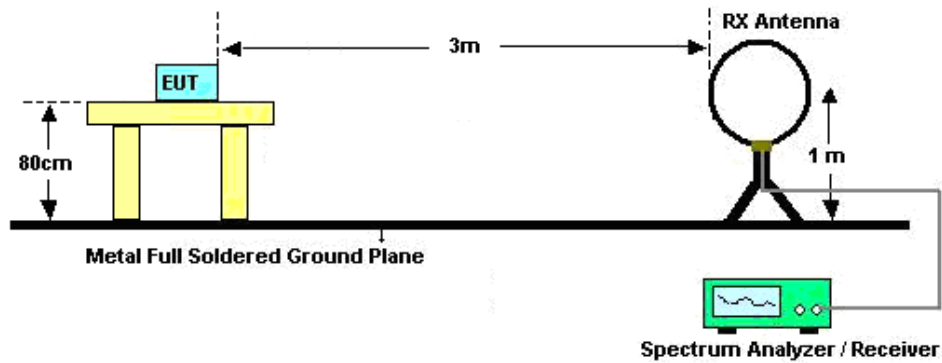
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

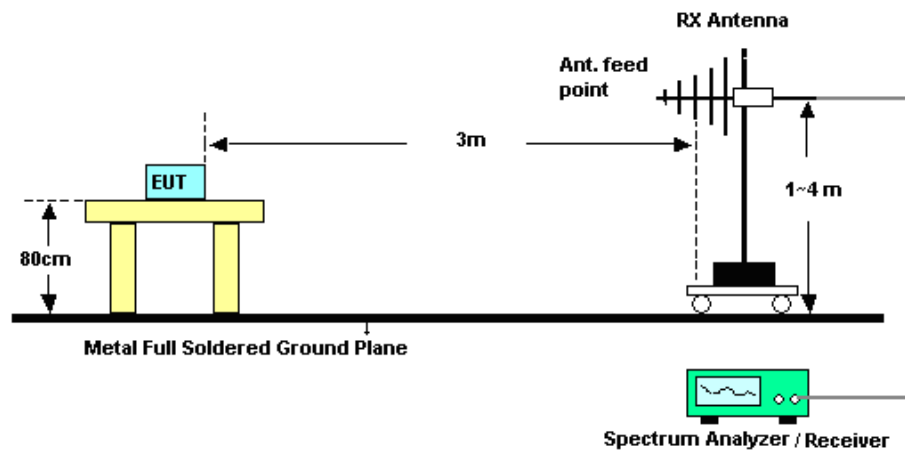
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

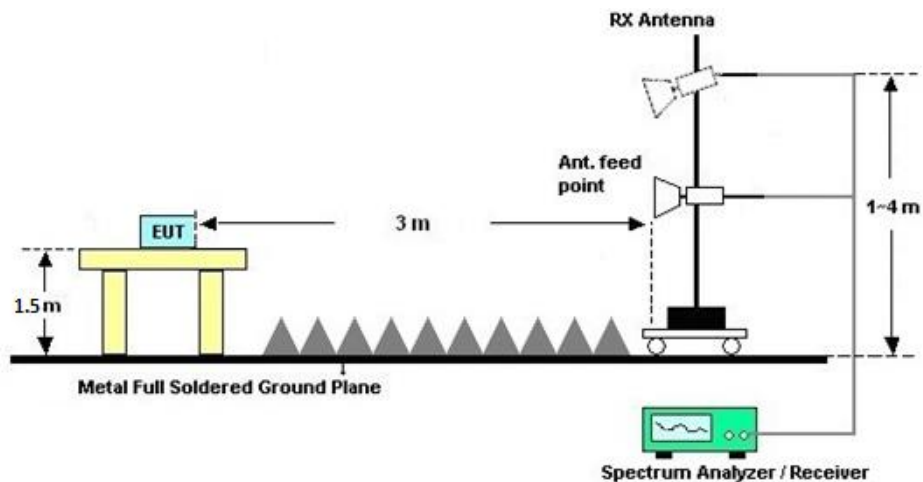
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

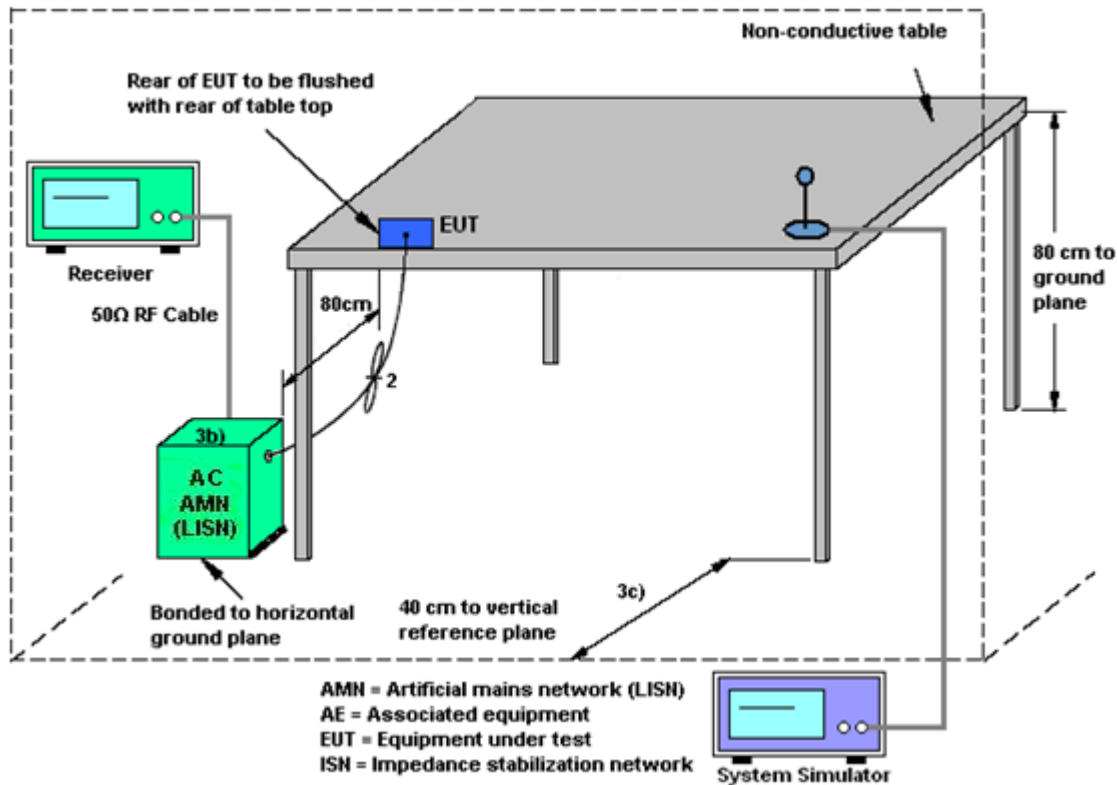
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	2.90	2.80	2.90	5.86	0.00	0.00

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)

< Beamforming Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	2.90	2.80	5.86	5.86	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Oct. 13, 2020~ Nov. 16, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020		Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 13, 2020	Oct. 13, 2020~ Nov. 16, 2020	Jan. 12, 2021	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 13, 2020	Oct. 13, 2020~ Nov. 16, 2020	Jan. 12, 2021	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 17, 2020	Nov. 07, 2020	Oct. 16, 2021	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz, MAX 30dB	Apr. 15, 2020	Nov. 07, 2020	Apr. 14, 2021	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	Nov. 07, 2020	Nov. 09, 2020	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 30, 2020	Nov. 07, 2020	May 29, 2021	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 26, 2020	Nov. 07, 2020	Apr. 25, 2021	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Nov. 07, 2020	Nov. 09, 2020	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Apr. 14, 2020	Nov. 07, 2020	Apr. 13, 2021	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Nov. 07, 2020	Jan. 07, 2021	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2012228	1Ghz-18Ghz	Oct. 17, 2020	Nov. 07, 2020	Oct. 16, 2021	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 17, 2020	Nov. 07, 2020	Oct. 16, 2021	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 07, 2020	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 07, 2020	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 07, 2020	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Oct. 22, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Oct. 22, 2020	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	Oct. 22, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Oct. 22, 2020	Oct. 16, 2021	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.9 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Appendix A. Conducted Test Results

Test Engineer:	Lex Wu	Temperature:	23-25	°C
Test Date:	2020/10/13~2020/11/16	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	12.64	12.64	8.03	8.03	0.50	Pass
11b	1Mbps	2	6	2437	12.69	12.69	8.05	8.05	0.50	Pass
11b	1Mbps	2	11	2462	12.64	12.64	8.05	8.05	0.50	Pass
11g	6Mbps	2	1	2412	17.53	17.33	15.30	16.00	0.50	Pass
11g	6Mbps	2	2	2417	17.78	17.18	15.10	15.11	0.50	Pass
11g	6Mbps	2	3	2422	17.68	17.33	14.19	15.11	0.50	Pass
11g	6Mbps	2	6	2437	17.68	17.38	15.32	15.09	0.50	Pass
11g	6Mbps	2	9	2452	17.53	17.28	15.10	15.33	0.50	Pass
11g	6Mbps	2	10	2457	17.58	17.23	15.10	15.11	0.50	Pass
11g	6Mbps	2	11	2462	17.58	17.33	15.10	15.11	0.50	Pass
HT20	MCS0	2	1	2412	18.28	18.13	15.11	16.90	0.50	Pass
HT20	MCS0	2	2	2417	18.13	18.08	15.11	16.26	0.50	Pass
HT20	MCS0	2	3	2422	18.28	18.08	15.13	16.30	0.50	Pass
HT20	MCS0	2	6	2437	18.33	18.28	15.11	16.30	0.50	Pass
HT20	MCS0	2	9	2452	18.33	18.18	15.11	16.30	0.50	Pass
HT20	MCS0	2	10	2457	18.23	18.03	15.11	16.30	0.50	Pass
HT20	MCS0	2	11	2462	18.33	18.13	15.13	16.28	0.50	Pass
HT40	MCS0	2	3	2422	36.16	36.06	35.09	35.09	0.50	Pass
HT40	MCS0	2	4	2427	36.16	36.06	35.09	35.09	0.50	Pass
HT40	MCS0	2	5	2432	36.06	36.26	35.09	35.09	0.50	Pass
HT40	MCS0	2	6	2437	36.16	36.16	35.13	35.13	0.50	Pass
HT40	MCS0	2	8	2447	36.36	36.26	35.09	35.09	0.50	Pass
HT40	MCS0	2	9	2452	36.26	36.26	35.09	35.09	0.50	Pass
VHE20	MCS0	2	1	2412	19.18	19.18	18.52	18.52	0.50	Pass
VHE20	MCS0	2	2	2417	19.23	19.18	18.36	18.58	0.50	Pass
VHE20	MCS0	2	3	2422	19.93	19.73	18.64	18.44	0.50	Pass
VHE20	MCS0	2	6	2437	19.93	19.78	18.54	18.62	0.50	Pass
VHE20	MCS0	2	9	2452	19.83	19.68	18.66	18.56	0.50	Pass
VHE20	MCS0	2	10	2457	19.98	19.78	18.60	18.60	0.50	Pass
VHE20	MCS0	2	11	2462	19.83	19.68	18.64	18.80	0.50	Pass
VHE40	MCS0	2	3	2422	37.66	37.56	37.00	37.28	0.50	Pass
VHE40	MCS0	2	4	2427	37.66	37.66	36.88	37.04	0.50	Pass
VHE40	MCS0	2	5	2432	37.76	37.76	37.36	37.03	0.50	Pass
VHE40	MCS0	2	6	2437	37.66	37.76	37.28	37.00	0.50	Pass
VHE40	MCS0	2	9	2452	37.66	37.76	37.28	36.84	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	2	1	2412	0.03	0.03	26.86	27.00	29.94
11b	1Mbps	2	6	2437	0.03	0.03	26.77	27.12	29.96
11b	1Mbps	2	11	2462	0.03	0.03	26.71	27.04	29.89
11g	6Mbps	2	1	2412	0.18	0.18	21.81	21.65	24.74
11g	6Mbps	2	2	2417	0.18	0.18	22.79	22.76	25.78
11g	6Mbps	2	3	2422	0.18	0.18	23.94	24.17	27.06
11g	6Mbps	2	6	2437	0.18	0.18	25.59	25.79	28.70
11g	6Mbps	2	9	2452	0.18	0.18	24.44	24.50	27.48
11g	6Mbps	2	10	2457	0.18	0.18	23.12	23.20	26.17
11g	6Mbps	2	11	2462	0.18	0.18	22.56	22.63	25.60
HT20	MCS0	2	1	2412	0.19	0.19	19.77	20.21	23.00
HT20	MCS0	2	2	2417	0.19	0.19	22.65	22.77	25.72
HT20	MCS0	2	3	2422	0.19	0.19	24.41	24.60	27.52
HT20	MCS0	2	6	2437	0.19	0.19	25.76	25.82	28.80
HT20	MCS0	2	9	2452	0.19	0.19	23.84	24.05	26.96
HT20	MCS0	2	10	2457	0.19	0.19	22.33	22.72	25.54
HT20	MCS0	2	11	2462	0.19	0.19	20.72	20.78	23.76
HT40	MCS0	2	3	2422	0.37	0.37	16.94	16.99	19.98
HT40	MCS0	2	4	2427	0.37	0.37	18.49	18.51	21.51
HT40	MCS0	2	5	2432	0.37	0.37	19.85	19.98	22.93
HT40	MCS0	2	6	2437	0.37	0.37	22.58	22.54	25.57
HT40	MCS0	2	8	2447	0.37	0.37	19.84	20.00	22.93
HT40	MCS0	2	9	2452	0.37	0.37	17.54	18.03	20.80
VHE20	MCS0	2	1	2412	0.42	0.43	18.61	18.85	21.74
VHE20	MCS0	2	2	2417	0.42	0.43	22.47	22.51	25.50
VHE20	MCS0	2	3	2422	0.42	0.43	23.28	23.38	26.34
VHE20	MCS0	2	6	2437	0.42	0.43	25.07	25.15	28.12
VHE20	MCS0	2	9	2452	0.42	0.43	23.67	23.94	26.82
VHE20	MCS0	2	10	2457	0.42	0.43	21.70	21.97	24.85
VHE20	MCS0	2	11	2462	0.42	0.43	20.65	20.80	23.74
VHE40	MCS0	2	3	2422	0.72	0.73	15.78	15.86	18.83
VHE40	MCS0	2	4	2427	0.72	0.73	17.40	17.35	20.38
VHE40	MCS0	2	5	2432	0.72	0.73	19.74	19.91	22.83
VHE40	MCS0	2	6	2437	0.72	0.73	21.37	21.54	24.46
VHE40	MCS0	2	9	2452	0.72	0.73	19.18	19.37	22.28

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	3.19	3.94	6.95	5.86		8.00		Pass
11b	1Mbps	2	6	2437	3.26	4.86	7.87	5.86		8.00		Pass
11b	1Mbps	2	11	2462	3.72	4.31	7.32	5.86		8.00		Pass
11g	6Mbps	2	1	2412	-2.29	-2.59	0.72	5.86		8.00		Pass
11g	6Mbps	2	2	2417	-0.74	-3.30	2.27	5.86		8.00		Pass
11g	6Mbps	2	3	2422	-0.76	-0.22	2.79	5.86		8.00		Pass
11g	6Mbps	2	6	2437	2.27	0.72	5.28	5.86		8.00		Pass
11g	6Mbps	2	9	2452	0.28	-0.42	3.29	5.86		8.00		Pass
11g	6Mbps	2	10	2457	-1.11	-1.31	1.90	5.86		8.00		Pass
11g	6Mbps	2	11	2462	-2.38	-1.97	1.04	5.86		8.00		Pass
HT20	MCS0	2	1	2412	-4.10	-4.71	-1.09	5.86		8.00		Pass
HT20	MCS0	2	2	2417	-3.11	-2.19	0.82	5.86		8.00		Pass
HT20	MCS0	2	3	2422	-0.41	-0.74	2.60	5.86		8.00		Pass
HT20	MCS0	2	6	2437	1.50	2.82	5.83	5.86		8.00		Pass
HT20	MCS0	2	9	2452	-1.39	-1.69	1.62	5.86		8.00		Pass
HT20	MCS0	2	10	2457	-1.19	-0.79	2.22	5.86		8.00		Pass
HT20	MCS0	2	11	2462	-4.05	-4.20	-1.04	5.86		8.00		Pass
HT40	MCS0	2	3	2422	-11.45	-10.18	-7.17	5.86		8.00		Pass
HT40	MCS0	2	4	2427	-9.85	-10.18	-6.84	5.86		8.00		Pass
HT40	MCS0	2	5	2432	-8.68	-6.22	-3.21	5.86		8.00		Pass
HT40	MCS0	2	6	2437	-5.56	-6.23	-2.55	5.86		8.00		Pass
HT40	MCS0	2	8	2447	-7.92	-6.97	-3.96	5.86		8.00		Pass
HT40	MCS0	2	9	2452	-10.37	-8.97	-5.96	5.86		8.00		Pass
VHE20	MCS0	2	1	2412	-8.00	-7.01	-4.00	5.86		8.00		Pass
VHE20	MCS0	2	2	2417	-3.32	-3.27	-0.26	5.86		8.00		Pass
VHE20	MCS0	2	3	2422	-2.32	-4.01	0.69	5.86		8.00		Pass
VHE20	MCS0	2	6	2437	-0.29	-1.23	2.72	5.86		8.00		Pass
VHE20	MCS0	2	9	2452	-3.05	-3.40	-0.04	5.86		8.00		Pass
VHE20	MCS0	2	10	2457	-5.08	-3.76	-0.75	5.86		8.00		Pass
VHE20	MCS0	2	11	2462	-6.14	-5.53	-2.52	5.86		8.00		Pass
VHE40	MCS0	2	3	2422	-13.37	-12.32	-9.31	5.86		8.00		Pass
VHE40	MCS0	2	4	2427	-11.49	-10.53	-10.35	5.86		8.00		Pass
VHE40	MCS0	2	5	2432	-10.14	-9.85	-6.84	5.86		8.00		Pass
VHE40	MCS0	2	6	2437	-7.84	-7.99	-4.83	5.86		8.00		Pass
VHE40	MCS0	2	9	2452	-10.26	-9.80	-6.79	5.86		8.00		Pass

Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)			6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
							Ant 1	Ant 2		
11ax20	26	2	1	2412			12.01	10.81	0.50	Pass
11ax20	52	2	1	2412			17.04	17.04	0.50	Pass
11ax20	106	2	1	2412			17.06	17.10	0.50	Pass
11ax20	26	2	11	2462			10.81	10.81	0.50	Pass
11ax20	52	2	11	2462			17.08	17.06	0.50	Pass
11ax20	106	2	11	2462			17.06	17.10	0.50	Pass
11ax40	242	2	3	2422			36.48	36.56	0.50	Pass
11ax40	242	2	9	2452			36.52	36.52	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11ax20	26	2	1	2412	0.17	0.17	3.89	3.79	9.85
11ax20	52	2	1	2412	0.27	0.27	7.31	5.87	9.66
11ax20	106	2	1	2412	0.38	0.39	10.63	9.60	13.16
11ax20	26	2	11	2462	0.17	0.17	3.88	3.15	6.54
11ax20	52	2	11	2462	0.27	0.27	3.86	3.66	6.77
11ax20	106	2	11	2462	0.38	0.39	7.68	7.13	10.42
11ax40	242	2	3	2422	0.51	0.51	14.03	13.61	16.84
11ax40	242	2	9	2452	0.51	0.51	14.99	20.75	23.40

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

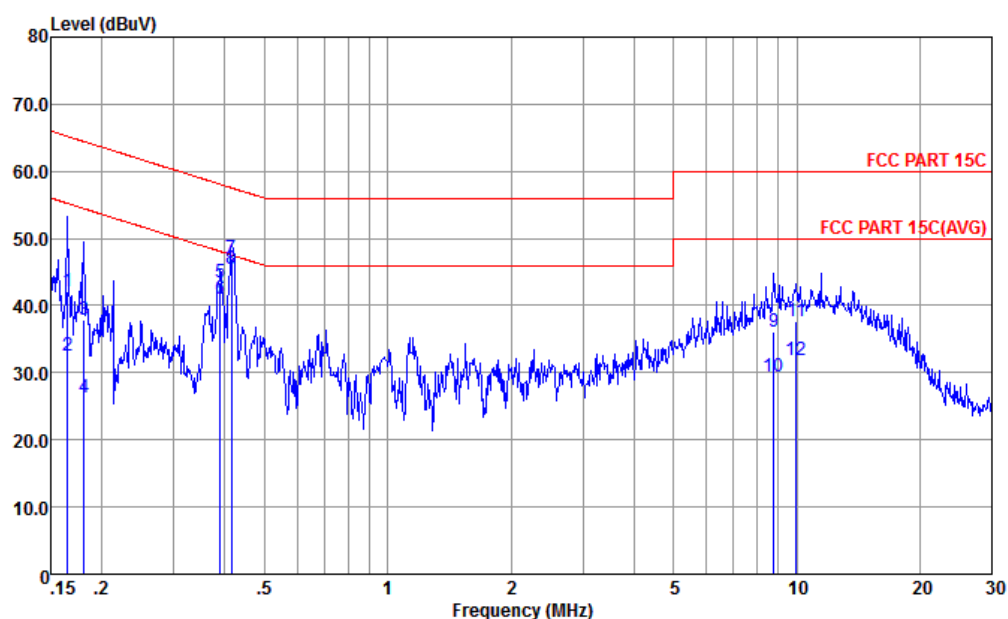
2.4GHz Band												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11ax20	26	2	1	2412	-7.83	-8.60	-4.82	5.86		8.00		Pass
11ax20	52	2	1	2412	-8.47	-9.43	-5.46	5.86		8.00		Pass
11ax20	106	2	1	2412	-8.02	-8.15	-5.01	5.86		8.00		Pass
11ax20	26	2	11	2462	-12.31	-12.33	-9.30	5.86		8.00		Pass
11ax20	52	2	11	2462	-11.55	-10.44	-7.43	5.86		8.00		Pass
11ax20	106	2	11	2462	-9.55	-9.54	-6.53	5.86		8.00		Pass
11ax40	242	2	3	2422	-14.13	-15.51	-11.12	5.86		8.00		Pass
11ax40	242	2	9	2452	-13.19	-12.86	-9.85	5.86		8.00		Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

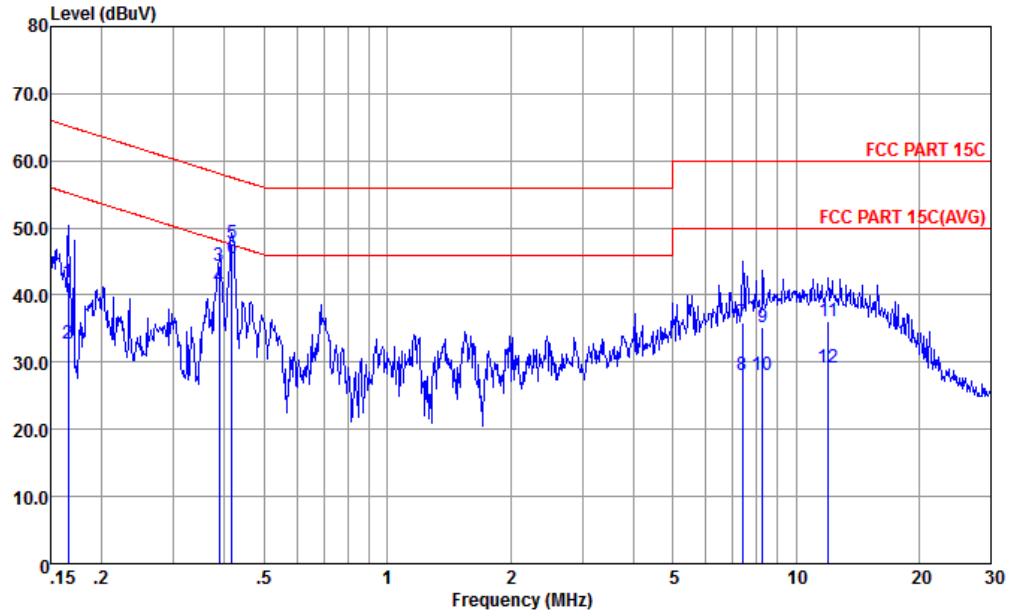


Site : CO01-KS
Condition : FCC PART 15C LISN-L-191028-CN02 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.165	42.12	-23.09	65.21	31.60	0.08	10.44	QP
2	0.165	32.62	-22.59	55.21	22.10	0.08	10.44	Average
3	0.181	37.99	-26.47	64.46	27.51	0.08	10.40	QP
4	0.181	26.39	-28.07	54.46	15.91	0.08	10.40	Average
5	0.389	43.49	-14.59	58.08	33.10	0.12	10.27	QP
6	0.389	40.99	-7.09	48.08	30.60	0.12	10.27	Average
7	0.415	47.08	-10.47	57.55	36.70	0.12	10.26	QP
8 *	0.415	45.38	-2.17	47.55	35.00	0.12	10.26	Average
9	8.776	36.12	-23.88	60.00	24.90	0.89	10.33	QP
10	8.776	29.42	-20.58	50.00	18.20	0.89	10.33	Average
11	9.966	37.59	-22.41	60.00	26.30	0.95	10.34	QP
12	9.966	31.79	-18.21	50.00	20.50	0.95	10.34	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C LISN-N-191028-CN02 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.166	41.80	-23.36	65.16	31.20	0.16	10.44	QP
2	0.166	32.70	-22.46	55.16	22.10	0.16	10.44	Average
3	0.387	44.28	-13.84	58.12	33.80	0.21	10.27	QP
4	0.387	41.28	-6.84	48.12	30.80	0.21	10.27	Average
5	0.417	47.68	-9.83	57.51	37.20	0.22	10.26	QP
6 *	0.417	45.38	-2.13	47.51	34.90	0.22	10.26	Average
7	7.407	35.83	-24.17	60.00	24.50	1.02	10.31	QP
8	7.407	28.03	-21.97	60.00	16.70	1.02	10.31	Average
9	8.279	35.20	-24.80	60.00	23.80	1.08	10.32	QP
10	8.279	28.00	-22.00	50.00	16.60	1.08	10.32	Average
11	11.996	35.99	-24.01	60.00	24.09	1.53	10.37	QP
12	11.996	29.19	-20.81	50.00	17.29	1.53	10.37	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Sample 1

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2386.18	56.02	-17.98	74	48.97	31.2	7.5	31.65	282	8	P	H
		2385.92	45.5	-8.5	54	38.45	31.2	7.5	31.65	282	8	A	H
	*	2414	112.21	-	-	105.02	31.31	7.53	31.65	282	8	P	H
	*	2414	109.22	-	-	102.03	31.31	7.53	31.65	282	8	A	H
		2387.61	62.04	-11.96	74	54.99	31.2	7.5	31.65	313	347	P	V
		2387.48	53.48	-0.52	54	46.43	31.2	7.5	31.65	313	347	A	V
	*	2412	123.61	-	-	116.42	31.31	7.53	31.65	313	347	P	V
	*	2414	117.77	-	-	110.58	31.31	7.53	31.65	313	347	A	V
802.11b CH 06 2437MHz		2372.4	55.84	-18.16	74	48.84	31.19	7.47	31.66	257	39	P	H
		2377.73	44.73	-9.27	54	37.72	31.19	7.47	31.65	257	39	A	H
		2489.92	56.82	-17.18	74	48.84	31.89	7.67	31.58	257	39	P	H
		2486.68	45.46	-8.54	54	37.63	31.77	7.64	31.58	257	39	A	H
	*	2438	113.8	-	-	106.29	31.54	7.58	31.61	257	39	P	H
	*	2438	110.89	-	-	103.38	31.54	7.58	31.61	257	39	A	H
		2374.87	60.68	-13.32	74	53.68	31.19	7.47	31.66	218	342	P	V
		2358.23	49.68	-4.32	54	42.73	31.18	7.44	31.67	218	342	A	V
		2485.78	61.03	-12.97	74	53.2	31.77	7.64	31.58	218	342	P	V
		2499.88	49.76	-4.24	54	41.76	31.89	7.67	31.56	218	342	A	V
	*	2438	123.87	-	-	116.36	31.54	7.58	31.61	218	342	P	V
	*	2438	120.28	-	-	112.77	31.54	7.58	31.61	218	342	A	V



802.11b CH 11 2462MHz		2499.4	56.77	-17.23	74	48.77	31.89	7.67	31.56	107	86	P	H
		2500	45.85	-8.15	54	37.85	31.89	7.67	31.56	107	86	A	H
	*	2462	114.84	-	-	107.17	31.66	7.61	31.6	107	86	P	H
	*	2460	111.78	-	-	104.11	31.66	7.61	31.6	107	86	A	H
		2489.74	63.25	-10.75	74	55.27	31.89	7.67	31.58	299	348	P	V
		2487.64	52.46	-1.54	54	44.48	31.89	7.67	31.58	299	348	A	V
	*	2462	124.44	-	-	116.77	31.66	7.61	31.6	299	348	P	V
	*	2464	120.55	-	-	112.88	31.66	7.61	31.6	299	348	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	53.6	-20.4	74	69.12	33.72	10.8	60.04	245	14	P	H
		4824	51.68	-2.32	54	67.2	33.72	10.8	60.04	245	14	A	H
		4824	55.82	-18.18	74	71.34	33.72	10.8	60.04	183	6	P	V
		4824	53.75	-0.25	54	69.27	33.72	10.8	60.04	183	6	A	V
802.11b CH 06 2437MHz		4872	52.67	-21.33	74	68.06	33.77	10.87	60.03	237	12	P	H
		4872	50.76	-3.24	54	66.15	33.77	10.87	60.03	237	12	A	H
		7308	43.26	-30.74	74	54.53	35.86	13.38	60.51	300	0	P	H
		4872	55.45	-18.55	74	70.84	33.77	10.87	60.03	230	6	P	V
		4872	53.7	-0.3	54	69.09	33.77	10.87	60.03	230	6	A	V
		7308	43.65	-30.35	74	54.92	35.86	13.38	60.51	300	360	P	V
802.11b CH 11 2462MHz		4926	53.03	-20.97	74	68.29	33.82	10.94	60.02	210	18	P	H
		4926	50.88	-3.12	54	66.14	33.82	10.94	60.02	210	18	A	H
		7386	43.3	-30.7	74	54.36	36.01	13.46	60.53	300	0	P	H
		4926	55.22	-18.78	74	70.48	33.82	10.94	60.02	224	5	P	V
		4926	53.8	-0.2	54	69.06	33.82	10.94	60.02	224	5	A	V
		7386	43.31	-30.69	74	54.37	36.01	13.46	60.53	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.43	57.78	-16.22	74	50.73	31.2	7.5	31.65	100	289	P	H
		2389.95	47.55	-6.45	54	40.5	31.2	7.5	31.65	100	289	A	H
	*	2410	110.5	-	-	103.31	31.31	7.53	31.65	100	289	P	H
	*	2410	103.01	-	-	95.82	31.31	7.53	31.65	100	289	A	H
		2389.95	67.1	-6.9	74	60.05	31.2	7.5	31.65	349	337	P	V
		2389.95	53.46	-0.54	54	46.41	31.2	7.5	31.65	349	337	A	V
	*	2412	120.34	-	-	113.15	31.31	7.53	31.65	349	337	P	V
	*	2412	112.99	-	-	105.8	31.31	7.53	31.65	349	337	A	V
802.11g CH 02 2417MHz		2360.7	56.17	-17.83	74	49.21	31.18	7.44	31.66	385	33	P	H
		2389.82	45.05	-8.95	54	38	31.2	7.5	31.65	385	33	A	H
		2418	112.07	-	-	104.86	31.31	7.53	31.63	385	33	P	H
		2418	104.3	-	-	97.09	31.31	7.53	31.63	385	33	A	H
		2389.3	65.32	-8.68	74	58.27	31.2	7.5	31.65	314	349	P	V
		2389.95	53.38	-0.62	54	46.33	31.2	7.5	31.65	314	349	A	V
		2420	120.38	-	-	113.02	31.43	7.56	31.63	314	349	P	V
		2420	112.71	-	-	105.35	31.43	7.56	31.63	314	349	A	V



802.11g CH 03 2422MHz		2382.41	57.42	-16.58	74	49.45	32.15	7.47	31.65	386	30	P	H
		2379.42	46.25	-7.75	54	38.28	32.15	7.47	31.65	386	30	A	H
		2424	114.33	-	-	106.23	32.17	7.56	31.63	386	30	P	H
		2424	106.54	-	-	98.44	32.17	7.56	31.63	386	30	A	H
		2388.91	64.85	-9.15	74	56.8	32.2	7.5	31.65	215	339	P	V
		2388.91	53.26	-0.74	54	45.21	32.2	7.5	31.65	215	339	A	V
		2424	123.08	-	-	114.98	32.17	7.56	31.63	215	339	P	V
		2424	115.52	-	-	107.42	32.17	7.56	31.63	215	339	A	V
802.11g CH 06 2437MHz		2314.42	55.82	-18.18	74	48.99	31.15	7.36	31.68	306	37	P	H
		2389.56	45.76	-8.24	54	38.71	31.2	7.5	31.65	306	37	A	H
		2489.8	56.76	-17.24	74	48.78	31.89	7.67	31.58	306	37	P	H
		2483.56	46.26	-7.74	54	38.43	31.77	7.64	31.58	306	37	A	H
	*	2436	114.42	-	-	107.04	31.43	7.56	31.61	306	37	P	H
	*	2436	106.83	-	-	99.45	31.43	7.56	31.61	306	37	A	H
		2370.06	61.87	-12.13	74	54.87	31.19	7.47	31.66	142	337	P	V
		2388.39	51.64	-2.36	54	44.59	31.2	7.5	31.65	142	337	A	V
		2484.22	63.26	-10.74	74	55.43	31.77	7.64	31.58	142	337	P	V
		2485.84	52.59	-1.41	54	44.76	31.77	7.64	31.58	142	337	A	V
	*	2436	124.53	-	-	117.15	31.43	7.56	31.61	142	337	P	V
	*	2436	116.94	-	-	109.56	31.43	7.56	31.61	142	337	A	V



802.11g CH 09 2452MHz		2484.76	59.39	-14.61	74	51.56	31.77	7.64	31.58	247	52	P	H
		2484.7	46.93	-7.07	54	39.1	31.77	7.64	31.58	247	52	A	H
		2454	114.63	---	---	106.96	31.66	7.61	31.6	247	52	P	H
		2454	107.05	---	---	99.38	31.66	7.61	31.6	247	52	A	H
		2484.04	71.49	-2.51	74	63.66	31.77	7.64	31.58	272	336	P	V
		2483.5	53.2	-0.8	54	45.37	31.77	7.64	31.58	272	336	A	V
		2454	123.35	---	---	115.68	31.66	7.61	31.6	272	336	P	V
		2454	115.77	---	---	108.1	31.66	7.61	31.6	272	336	A	V
802.11g CH 10 2457MHz		2484.88	58.06	-15.94	74	50.23	31.77	7.64	31.58	299	51	P	H
		2499.52	46.49	-7.51	54	38.49	31.89	7.67	31.56	299	51	A	H
		2460	111.92	---	---	104.25	31.66	7.61	31.6	299	51	P	H
		2460	104.06	---	---	96.39	31.66	7.61	31.6	299	51	A	H
		2483.98	70.53	-3.47	74	62.7	31.77	7.64	31.58	297	344	P	V
		2483.92	53.48	-0.52	54	45.65	31.77	7.64	31.58	297	344	A	V
		2460	121.99	---	---	114.32	31.66	7.61	31.6	297	344	P	V
		2458	113.99	---	---	106.32	31.66	7.61	31.6	297	344	A	V



802.11g CH 11 2462MHz		2484.28	61.15	-12.85	74	53.32	31.77	7.64	31.58	106	87	P	H
		2493.16	46.98	-7.02	54	38.98	31.89	7.67	31.56	106	87	A	H
	*	2464	111.73	-	-	104.06	31.66	7.61	31.6	106	87	P	H
	*	2462	104.45	-	-	96.78	31.66	7.61	31.6	106	87	A	H
		2483.56	72.46	-1.54	74	64.63	31.77	7.64	31.58	242	338	P	V
		2485.3	53.59	-0.41	54	45.76	31.77	7.64	31.58	242	338	A	V
	*	2462	121.12	-	-	113.45	31.66	7.61	31.6	242	338	P	V
	*	2462	113.86	-	-	106.19	31.66	7.61	31.6	242	338	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	43.76	-30.24	74	59.28	33.72	10.8	60.04	300	0	P	H
		4824	45.57	-28.43	74	61.09	33.72	10.8	60.04	300	360	P	V
802.11g CH 02 2417MHz		4836	43.31	-30.69	74	58.79	33.73	10.82	60.03	100	360	P	H
		7251	42.81	-31.19	74	54.21	35.77	13.33	60.5	100	360	P	H
		4836	47.85	-26.15	74	63.33	33.73	10.82	60.03	100	360	P	V
		7251	41.86	-32.14	74	53.26	35.77	13.33	60.5	100	360	P	V
802.11g CH 03 2422MHz		4842	44.84	-29.16	74	59.73	34.32	10.82	60.03	100	360	P	H
		7266	42.28	-31.72	74	53.5	35.94	13.35	60.51	100	360	P	H
		4842	47.23	-26.77	74	62.12	34.32	10.82	60.03	100	360	P	V
		7266	42.47	-31.53	74	53.69	35.94	13.35	60.51	100	360	P	V



802.11g CH 06 2437MHz		4872	48.6	-25.4	74	63.99	33.77	10.87	60.03	300	0	P	H
		7308	43.21	-30.79	74	54.48	35.86	13.38	60.51	300	0	P	H
		4872	53.53	-20.47	74	68.92	33.77	10.87	60.03	233	2	P	V
		4872	42.29	-11.71	54	57.68	33.77	10.87	60.03	233	2	A	V
		7308	43.1	-30.9	74	54.37	35.86	13.38	60.51	300	360	P	v
802.11g CH 09 2452MHz		4902	47.41	-26.59	74	62.72	33.8	10.91	60.02	300	0	P	H
		7356	43.3	-30.7	74	54.44	35.95	13.43	60.52	300	0	P	H
		4902	50.22	-23.78	74	65.53	33.8	10.91	60.02	300	360	P	V
		7356	42.56	-31.44	74	53.7	35.95	13.43	60.52	300	360	P	V
802.11g CH 10 2457MHz		4914	43.6	-30.4	74	58.91	33.8	10.91	60.02	100	360	P	H
		7368	42.72	-31.28	74	53.82	35.98	13.45	60.53	100	360	P	H
		4914	45.11	-28.89	74	60.42	33.8	10.91	60.02	100	360	P	V
		7368	42.21	-31.79	74	53.31	35.98	13.45	60.53	100	360	P	V
802.11g CH 11 2462MHz		4926	42.51	-31.49	74	57.77	33.82	10.94	60.02	100	360	P	H
		7386	42.95	-31.05	74	54.01	36.01	13.46	60.53	100	360	P	H
		4926	44.55	-29.45	74	59.81	33.82	10.94	60.02	100	360	P	V
		7386	42.96	-31.04	74	54.02	36.01	13.46	60.53	100	360	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.69	56.77	-17.23	74	49.72	31.2	7.5	31.65	100	287	P	H
		2389.17	46.47	-7.53	54	39.42	31.2	7.5	31.65	100	287	A	H
	*	2410	106.94	-	-	99.75	31.31	7.53	31.65	100	287	P	H
	*	2412	99.46	-	-	92.27	31.31	7.53	31.65	100	287	A	H
		2389.56	65.17	-8.83	74	58.12	31.2	7.5	31.65	226	336	P	V
		2389.43	53.26	-0.74	54	46.21	31.2	7.5	31.65	226	336	A	V
	*	2410	117.17	-	-	109.98	31.31	7.53	31.65	226	336	P	V
	*	2414	109.37	-	-	102.18	31.31	7.53	31.65	226	336	A	V
802.11n HT20 CH 02 2417MHz		2377.99	56.34	-17.66	74	49.33	31.19	7.47	31.65	385	30	P	H
		2365.9	45.51	-8.49	54	38.55	31.18	7.44	31.66	385	30	A	H
	*	2418	112.19	-	-	104.98	31.31	7.53	31.63	385	30	P	H
	*	2418	104.27	-	-	97.06	31.31	7.53	31.63	385	30	A	H
		2385.53	63.59	-10.41	74	56.54	31.2	7.5	31.65	316	349	P	V
		2389.95	52.92	-1.08	54	45.87	31.2	7.5	31.65	316	349	A	V
	*	2420	119.05	-	-	111.69	31.43	7.56	31.63	316	349	P	V
	*	2418	111.99	-	-	104.78	31.31	7.53	31.63	316	349	A	V



802.11n HT20 CH 03 2422MHz		2380.33	56.26	-17.74	74	49.25	31.19	7.47	31.65	387	29	P	H
		2382.93	45.59	-8.41	54	38.58	31.19	7.47	31.65	387	29	A	H
	*	2420	113.21	-	-	105.85	31.43	7.56	31.63	387	29	P	H
	*	2422	105.35	-	-	97.99	31.43	7.56	31.63	387	29	A	H
		2389.95	65.48	-8.52	74	58.43	31.2	7.5	31.65	306	342	P	V
		2389.95	53.33	-0.67	54	46.28	31.2	7.5	31.65	306	342	A	V
	*	2424	120.97	-	-	113.61	31.43	7.56	31.63	306	342	P	V
	*	2422	114.01	-	-	106.65	31.43	7.56	31.63	306	342	A	V
802.11n HT20 CH 06 2437MHz		2384.23	56.43	-17.57	74	49.42	31.19	7.47	31.65	223	35	P	H
		2386.44	45.98	-8.02	54	38.93	31.2	7.5	31.65	223	35	A	H
		2497.06	57.35	-16.65	74	49.35	31.89	7.67	31.56	223	35	P	H
		2496.76	46.29	-7.71	54	38.29	31.89	7.67	31.56	223	35	A	H
	*	2440	112.39	-	-	104.88	31.54	7.58	31.61	223	35	P	H
	*	2434	105.33	-	-	97.97	31.43	7.56	31.63	223	35	A	H
		2385.53	61.32	-12.68	74	54.27	31.2	7.5	31.65	237	317	P	V
		2386.18	50.85	-3.15	54	43.8	31.2	7.5	31.65	237	317	A	V
		2483.86	64.21	-9.79	74	56.38	31.77	7.64	31.58	237	317	P	V
		2483.74	53.03	-0.97	54	45.2	31.77	7.64	31.58	237	317	A	V
	*	2436	123.41	-	-	116.03	31.43	7.56	31.61	237	317	P	V
	*	2438	115.53	-	-	108.02	31.54	7.58	31.61	237	317	A	V



802.11n HT20 CH 09 2452MHz		2483.86	58.94	-15.06	74	51.11	31.77	7.64	31.58	246	52	P	H
		2486.02	46.71	-7.29	54	38.88	31.77	7.64	31.58	246	52	A	H
	*	2454	112.38	-	-	104.71	31.66	7.61	31.6	246	52	P	H
	*	2454	105.46	-	-	97.79	31.66	7.61	31.6	246	52	A	H
		2487.16	68.2	-5.8	74	60.37	31.77	7.64	31.58	270	335	P	V
		2485.24	53.01	-0.99	54	45.18	31.77	7.64	31.58	270	335	A	V
	*	2450	122.07	-	-	114.56	31.54	7.58	31.61	270	335	P	V
	*	2452	114.1	-	-	106.59	31.54	7.58	31.61	270	335	A	V
802.11n HT20 CH 10 2457MHz		2494.78	57.46	-16.54	74	49.46	31.89	7.67	31.56	247	56	P	H
		2485.54	46.59	-7.41	54	38.76	31.77	7.64	31.58	247	56	A	H
	*	2456	112.18	-	-	104.51	31.66	7.61	31.6	247	56	P	H
	*	2456	104.72	-	-	97.05	31.66	7.61	31.6	247	56	A	H
		2485.36	65.53	-8.47	74	57.7	31.77	7.64	31.58	297	345	P	V
		2483.68	53.54	-0.46	54	45.71	31.77	7.64	31.58	297	345	A	V
	*	2458	120.34	-	-	112.67	31.66	7.61	31.6	297	345	P	V
	*	2458	113.03	-	-	105.36	31.66	7.61	31.6	297	345	A	V
802.11n HT20 CH 11 2462MHz		2489.62	56.48	-17.52	74	48.5	31.89	7.67	31.58	298	8	P	H
		2485.24	46.24	-7.76	54	38.41	31.77	7.64	31.58	298	8	A	H
	*	2460	108.94	-	-	101.27	31.66	7.61	31.6	298	8	P	H
	*	2460	101.1	-	-	93.43	31.66	7.61	31.6	298	8	A	H
		2489.56	63.58	-10.42	74	55.6	31.89	7.67	31.58	238	326	P	V
		2483.8	53.3	-0.7	54	45.47	31.77	7.64	31.58	238	326	A	V
	*	2460	118.56	-	-	110.89	31.66	7.61	31.6	238	326	P	V
	*	2462	110.91	-	-	103.24	31.66	7.61	31.6	238	326	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20		4824	40.57	-33.43	74	56.09	33.72	10.8	60.04	100	360	P	H
CH 01 2412MHz		4824	41.44	-32.56	74	56.96	33.72	10.8	60.04	100	360	P	V
802.11n		4836	43.92	-30.08	74	59.4	33.73	10.82	60.03	300	0	P	H
HT20		7248	42.94	-31.06	74	54.34	35.77	13.33	60.5	300	0	P	H
CH 02		4836	46.96	-27.04	74	62.44	33.73	10.82	60.03	300	360	P	V
2417MHz		7248	42.66	-31.34	74	54.06	35.77	13.33	60.5	300	360	P	V
802.11n		4842	45.94	-28.06	74	61.42	33.73	10.82	60.03	300	0	P	H
HT20		7266	42.26	-31.74	74	53.62	35.8	13.35	60.51	300	0	P	H
CH 03		4842	50.9	-23.1	74	66.38	33.73	10.82	60.03	300	360	P	V
2422MHz		7266	42.23	-31.77	74	53.59	35.8	13.35	60.51	300	360	P	V



802.11n		4872	45.62	-28.38	74	61.01	33.77	10.87	60.03	100	360	P	H
HT20		7308	43.45	-30.55	74	54.72	35.86	13.38	60.51	100	360	P	H
CH 06		4872	48.44	-25.56	74	63.83	33.77	10.87	60.03	100	360	P	V
2437MHz		7308	42.95	-31.05	74	54.22	35.86	13.38	60.51	100	360	P	V
802.11n		4902	47.87	-26.13	74	63.18	33.8	10.91	60.02	300	0	P	H
HT20		7356	43.49	-30.51	74	54.63	35.95	13.43	60.52	300	0	P	H
CH 09		4902	49.42	-24.58	74	64.73	33.8	10.91	60.02	300	360	P	V
2452MHz		7356	43.1	-30.9	74	54.24	35.95	13.43	60.52	300	360	P	V
802.11n		4914	43.91	-30.09	74	59.22	33.8	10.91	60.02	300	0	P	H
HT20		7368	43.03	-30.97	74	54.13	35.98	13.45	60.53	300	0	P	H
CH 10		4914	47.15	-26.85	74	62.46	33.8	10.91	60.02	300	360	P	V
2457MHz		7368	43.39	-30.61	74	54.49	35.98	13.45	60.53	300	360	P	V
802.11n		4926	41.01	-32.99	74	56.27	33.82	10.94	60.02	100	360	P	H
HT20		7386	42.69	-31.31	74	53.75	36.01	13.46	60.53	100	360	P	H
CH 11		4926	43.48	-30.52	74	58.74	33.82	10.94	60.02	100	360	P	V
2462MHz		7386	42.68	-31.32	74	53.74	36.01	13.46	60.53	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.82	56.6	-17.4	74	49.55	31.2	7.5	31.65	175	85	P	H
		2389.95	47.23	-6.77	54	40.18	31.2	7.5	31.65	175	85	A	H
		2484.58	56	-18	74	48.17	31.77	7.64	31.58	175	85	P	H
		2493.94	45.79	-8.21	54	37.79	31.89	7.67	31.56	175	85	A	H
	*	2428	101.57	-	-	94.21	31.43	7.56	31.63	175	85	P	H
	*	2424	94.06	-	-	86.7	31.43	7.56	31.63	175	85	A	H
		2389.95	63.33	-10.67	74	56.28	31.2	7.5	31.65	194	347	P	V
		2389.69	53.41	-0.59	54	46.36	31.2	7.5	31.65	194	347	A	V
		2494.3	57.79	-16.21	74	49.79	31.89	7.67	31.56	194	347	P	V
		2496.94	47.58	-6.42	54	39.58	31.89	7.67	31.56	194	347	A	V
	*	2428	110.51	-	-	103.15	31.43	7.56	31.63	194	347	P	V
	*	2424	103.81	-	-	96.45	31.43	7.56	31.63	194	347	A	V
802.11n HT40 CH 04 2427MHz		2379.81	55.46	-18.54	74	48.45	31.19	7.47	31.65	388	31	P	H
		2389.56	45.86	-8.14	54	38.81	31.2	7.5	31.65	388	31	A	H
		2492.98	56.52	-17.48	74	48.52	31.89	7.67	31.56	388	31	P	H
		2490.58	45.75	-8.25	54	37.77	31.89	7.67	31.58	388	31	A	H
	*	2426	104.6	-	-	97.24	31.43	7.56	31.63	388	31	P	H
	*	2426	96.95	-	-	89.59	31.43	7.56	31.63	388	31	A	H
		2388	65.28	-8.72	74	58.23	31.2	7.5	31.65	302	343	P	V
		2389.95	53.61	-0.39	54	46.56	31.2	7.5	31.65	302	343	A	V
		2495.26	57.83	-16.17	74	49.83	31.89	7.67	31.56	302	343	P	V
		2483.5	47.88	-6.12	54	40.05	31.77	7.64	31.58	302	343	A	V
	*	2424	112.77	-	-	105.41	31.43	7.56	31.63	302	343	P	V
	*	2426	105.33	-	-	97.97	31.43	7.56	31.63	302	343	A	V



802.11n HT40 CH 05 2432MHz		2388	57.01	-16.99	74	49.96	31.2	7.5	31.65	306	24	P	H
		2389.95	47.31	-6.69	54	40.26	31.2	7.5	31.65	306	24	A	H
		2484.04	56.45	-17.55	74	48.62	31.77	7.64	31.58	306	24	P	H
		2485.12	46.02	-7.98	54	38.19	31.77	7.64	31.58	306	24	A	H
	*	2436	106.42	-	-	99.04	31.43	7.56	31.61	306	24	P	H
	*	2430	98.76	-	-	91.4	31.43	7.56	31.63	306	24	A	H
		2387.74	63.2	-10.8	74	56.15	31.2	7.5	31.65	300	336	P	V
		2389.95	53.08	-0.92	54	46.03	31.2	7.5	31.65	300	336	A	V
		2486.38	59.12	-14.88	74	51.29	31.77	7.64	31.58	300	336	P	V
		2485.9	49.3	-4.7	54	41.47	31.77	7.64	31.58	300	336	A	V
	*	2436	113.95	-	-	106.57	31.43	7.56	31.61	300	336	P	V
	*	2430	106.81	-	-	99.45	31.43	7.56	31.63	300	336	A	V
802.11n HT40 CH 06 2437MHz		2389.82	58.23	-15.77	74	51.18	31.2	7.5	31.65	109	88	P	H
		2389.95	48.16	-5.84	54	41.11	31.2	7.5	31.65	109	88	A	H
		2495.5	56.6	-17.4	74	48.6	31.89	7.67	31.56	109	88	P	H
		2497.36	46.47	-7.53	54	38.47	31.89	7.67	31.56	109	88	A	H
	*	2432	106.05	-	-	98.69	31.43	7.56	31.63	109	88	P	H
	*	2434	99.15	-	-	91.79	31.43	7.56	31.63	109	88	A	H
		2386.83	64.9	-9.1	74	57.85	31.2	7.5	31.65	240	339	P	V
		2389.43	53.38	-0.62	54	46.33	31.2	7.5	31.65	240	339	A	V
		2483.8	67.17	-6.83	74	59.34	31.77	7.64	31.58	240	339	P	V
		2483.8	52.79	-1.21	54	44.96	31.77	7.64	31.58	240	339	A	V
	*	2442	117.34	-	-	109.83	31.54	7.58	31.61	240	339	P	V
	*	2440	109.41	-	-	101.9	31.54	7.58	31.61	240	339	A	V



802.11n HT40 CH 08 2447MHz		2377.21	55.49	-18.51	74	48.49	31.19	7.47	31.66	104	289	P	H
		2384.75	45.12	-8.88	54	38.11	31.19	7.47	31.65	104	289	A	H
		2483.86	57.04	-16.96	74	49.21	31.77	7.64	31.58	104	289	P	H
		2485.48	46.31	-7.69	54	38.48	31.77	7.64	31.58	104	289	A	H
	*	2452	103.5	-	-	95.99	31.54	7.58	31.61	104	289	P	H
	*	2450	96.3	-	-	88.79	31.54	7.58	31.61	104	289	A	H
		2389.3	57.67	-16.33	74	50.62	31.2	7.5	31.65	270	338	P	V
		2387.74	48.27	-5.73	54	41.22	31.2	7.5	31.65	270	338	A	V
		2485.72	61.65	-12.35	74	53.82	31.77	7.64	31.58	270	338	P	V
		2485.12	52.6	-1.4	54	44.77	31.77	7.64	31.58	270	338	A	V
	*	2444	114.65	-	-	107.14	31.54	7.58	31.61	270	338	P	V
	*	2446	107.81	-	-	100.3	31.54	7.58	31.61	270	338	A	V
802.11n HT40 CH 09 2452MHz		2370.19	55.43	-18.57	74	48.43	31.19	7.47	31.66	101	85	P	H
		2389.3	45.18	-8.82	54	38.13	31.2	7.5	31.65	101	85	A	H
		2495.2	56.59	-17.41	74	48.59	31.89	7.67	31.56	101	85	P	H
		2487.64	46.76	-7.24	54	38.78	31.89	7.67	31.58	101	85	A	H
	*	2456	101.8	-	-	94.13	31.66	7.61	31.6	101	85	P	H
	*	2454	94.8	-	-	87.13	31.66	7.61	31.6	101	85	A	H
		2384.1	57.73	-16.27	74	50.72	31.19	7.47	31.65	269	333	P	V
		2386.7	47.69	-6.31	54	40.64	31.2	7.5	31.65	269	333	A	V
		2484.16	62.93	-11.07	74	55.1	31.77	7.64	31.58	269	333	P	V
		2484.04	53.54	-0.46	54	45.71	31.77	7.64	31.58	269	333	A	V
	*	2454	112.6	-	-	104.93	31.66	7.61	31.6	269	333	P	V
	*	2454	105.45	-	-	97.78	31.66	7.61	31.6	269	333	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4842	40.23	-33.77	74	55.71	33.73	10.82	60.03	300	0	P	H
HT40		7266	42.15	-31.85	74	53.51	35.8	13.35	60.51	300	0	P	H
CH 03		4842	41.2	-32.8	74	56.68	33.73	10.82	60.03	205	8	P	V
2422MHz		7266	43.04	-30.96	74	54.4	35.8	13.35	60.51	205	8	P	V
802.11n		4854	40.55	-33.45	74	55.98	33.75	10.85	60.03	300	0	P	H
HT40		7284	43.24	-30.76	74	54.55	35.83	13.37	60.51	300	0	P	H
CH 04		4854	40.95	-33.05	74	56.38	33.75	10.85	60.03	300	360	P	V
2427MHz		7284	42.57	-31.43	74	53.88	35.83	13.37	60.51	300	360	P	V
802.11n		4866	40.1	-33.9	74	55.53	33.75	10.85	60.03	300	0	P	H
HT40		7296	42.79	-31.21	74	54.1	35.83	13.37	60.51	300	0	P	H
CH 05		4866	41.31	-32.69	74	56.74	33.75	10.85	60.03	300	360	P	V
2432MHz		7296	43.44	-30.56	74	54.75	35.83	13.37	60.51	300	360	P	V
802.11n		4872	41.51	-32.49	74	56.9	33.77	10.87	60.03	100	360	P	H
HT40		7308	42.74	-31.26	74	54.01	35.86	13.38	60.51	100	360	P	H
CH 06		4872	42.24	-31.76	74	57.63	33.77	10.87	60.03	100	360	P	V
2437MHz		7308	43.09	-30.91	74	54.36	35.86	13.38	60.51	100	360	P	V
802.11n		4896	40.73	-33.27	74	56.08	33.78	10.89	60.02	300	0	P	H
HT40		7344	43.08	-30.92	74	54.27	35.92	13.41	60.52	300	0	P	H
CH 08		4896	41.99	-32.01	74	57.34	33.78	10.89	60.02	300	360	P	V
2447MHz		7344	43.09	-30.91	74	54.28	35.92	13.41	60.52	300	360	P	V
802.11n		4902	41.07	-32.93	74	56.38	33.8	10.91	60.02	300	0	P	H
HT40		7356	43.36	-30.64	74	54.5	35.95	13.43	60.52	300	0	P	H
CH 09		4902	40.75	-33.25	74	56.06	33.8	10.91	60.02	300	360	P	V
2452MHz		7356	43.21	-30.79	74	54.35	35.95	13.43	60.52	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		2389.17	56.55	-17.45	74	49.5	31.2	7.5	31.65	100	289	P	H
		2389.69	47.01	-6.99	54	39.96	31.2	7.5	31.65	100	289	A	H
	*	2412	106.52	-	-	99.33	31.31	7.53	31.65	100	289	P	H
	*	2410	96.8	-	-	89.61	31.31	7.53	31.65	100	289	A	H
		2388.39	64.13	-9.87	74	57.08	31.2	7.5	31.65	281	338	P	V
		2389.82	53.31	-0.69	54	46.26	31.2	7.5	31.65	281	338	A	V
	*	2412	115.85	-	-	108.66	31.31	7.53	31.65	281	338	P	V
	*	2414	106.55	-	-	99.36	31.31	7.53	31.65	281	338	A	V
802.11ax HE20 Full CH 02 2417MHz		2375.65	56.17	-17.83	74	49.17	31.19	7.47	31.66	384	29	P	H
		2389.3	45.57	-8.43	54	38.52	31.2	7.5	31.65	384	29	A	H
		2416	111.55	-	-	104.34	31.31	7.53	31.63	384	29	P	H
		2416	101.91	-	-	94.7	31.31	7.53	31.63	384	29	A	H
		2389.56	66.81	-7.19	74	59.76	31.2	7.5	31.65	152	338	P	V
		2389.95	53.28	-0.72	54	46.23	31.2	7.5	31.65	152	338	A	V
		2420	120.26	-	-	112.9	31.43	7.56	31.63	152	338	P	V
		2416	110.3	-	-	103.09	31.31	7.53	31.63	152	338	A	V



802.11ax HE20 Full CH 03 2422MHz		2333.92	55.59	-18.41	74	48.72	31.16	7.38	31.67	386	28	P	H
		2380.98	45.51	-8.49	54	38.5	31.19	7.47	31.65	386	28	A	H
	*	2424	111.98	-	-	104.62	31.43	7.56	31.63	386	28	P	H
	*	2420	102.94	-	-	95.58	31.43	7.56	31.63	386	28	A	H
		2389.17	64.15	-9.85	74	57.1	31.2	7.5	31.65	284	346	P	V
		2389.82	53.13	-0.87	54	46.08	31.2	7.5	31.65	284	346	A	V
	*	2422	120.41	-	-	113.05	31.43	7.56	31.63	284	346	P	V
	*	2420	111.1	-	-	103.74	31.43	7.56	31.63	284	346	A	V
802.11ax HE20 Full CH 06 2437MHz		2382.93	56.28	-17.72	74	49.27	31.19	7.47	31.65	304	24	P	H
		2385.66	46.26	-7.74	54	39.21	31.2	7.5	31.65	304	24	A	H
		2486.74	56.7	-17.3	74	48.87	31.77	7.64	31.58	304	24	P	H
		2489.08	46.66	-7.34	54	38.68	31.89	7.67	31.58	304	24	A	H
	*	2432	114.19	-	-	106.83	31.43	7.56	31.63	304	24	P	H
	*	2438	104.51	-	-	97	31.54	7.58	31.61	304	24	A	H
		2380.59	62.28	-11.72	74	55.27	31.19	7.47	31.65	219	332	P	V
		2387.48	51.82	-2.18	54	44.77	31.2	7.5	31.65	219	332	A	V
		2483.5	62.96	-11.04	74	55.13	31.77	7.64	31.58	219	332	P	V
		2488.12	53.3	-0.7	54	45.32	31.89	7.67	31.58	219	332	A	V
	*	2436	122.98	-	-	115.6	31.43	7.56	31.61	219	332	P	V
	*	2438	113.55	-	-	106.04	31.54	7.58	31.61	219	332	A	V



802.11ax HE20 Full CH 09 2452MHz		2484.28	60.81	-13.19	74	52.98	31.77	7.64	31.58	297	27	P	H
		2484.58	47.28	-6.72	54	39.45	31.77	7.64	31.58	297	27	A	H
	*	2454	111.66	-	-	103.99	31.66	7.61	31.6	297	27	P	H
	*	2450	102.45	-	-	94.94	31.54	7.58	31.61	297	27	A	H
		2484.76	66.5	-7.5	74	58.67	31.77	7.64	31.58	101	334	P	V
		2483.56	53.83	-0.17	54	46	31.77	7.64	31.58	101	334	A	V
	*	2450	121.04	-	-	113.53	31.54	7.58	31.61	101	334	P	V
	*	2450	112.3	-	-	104.79	31.54	7.58	31.61	101	334	A	V
802.11ax HE20 Full CH 10 2457MHz		2497.72	56.46	-17.54	74	48.46	31.89	7.67	31.56	299	29	P	H
		2497.48	46.69	-7.31	54	38.69	31.89	7.67	31.56	299	29	A	H
		2456	110.8	-	-	103.13	31.66	7.61	31.6	299	29	P	H
		2458	101.03	-	-	93.36	31.66	7.61	31.6	299	29	A	H
		2483.68	66.97	-7.03	74	59.14	31.77	7.64	31.58	270	336	P	V
		2487.94	53.46	-0.54	54	45.48	31.89	7.67	31.58	270	336	A	V
		2458	119.31	-	-	111.64	31.66	7.61	31.6	270	336	P	V
		2456	110.34	-	-	102.67	31.66	7.61	31.6	270	336	A	V
802.11ax HE20 Full CH 11 2462MHz		2483.5	56.69	-17.31	74	48.86	31.77	7.64	31.58	299	11	P	H
		2483.62	46.49	-7.51	54	38.66	31.77	7.64	31.58	299	11	A	H
	*	2464	111.31	-	-	103.64	31.66	7.61	31.6	299	11	P	H
	*	2464	100.05	-	-	92.38	31.66	7.61	31.6	299	11	A	H
		2483.56	69.36	-4.64	74	61.53	31.77	7.64	31.58	240	333	P	V
		2483.5	53.62	-0.38	54	45.79	31.77	7.64	31.58	240	333	A	V
	*	2462	118.82	-	-	111.15	31.66	7.61	31.6	240	333	P	V
	*	2462	109.28	-	-	101.61	31.66	7.61	31.6	240	333	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****WIFI 802.11 ax HE20 Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full		4824	40.05	-33.95	74	55.57	33.72	10.8	60.04	100	360	P	H
CH 01 2412MHz		4824	40.07	-33.93	74	55.59	33.72	10.8	60.04	100	360	P	V
802.11ax HE20 Full		4836	44.03	-29.97	74	59.51	33.73	10.82	60.03	300	0	P	H
		7248	42.95	-31.05	74	54.35	35.77	13.33	60.5	300	0	P	H
CH 02 2417MHz		4836	47.05	-26.95	74	62.53	33.73	10.82	60.03	300	360	P	V
		7248	42.88	-31.12	74	54.28	35.77	13.33	60.5	300	360	P	V
802.11ax HE20 Full		4842	43.54	-30.46	74	59.02	33.73	10.82	60.03	300	0	P	H
		7266	43.6	-30.4	74	54.96	35.8	13.35	60.51	300	0	P	H
CH 03 2422MHz		4842	49.71	-24.29	74	65.19	33.73	10.82	60.03	300	360	P	V
		7266	42.36	-31.64	74	53.72	35.8	13.35	60.51	300	360	P	V



802.11ax HE20 Full CH 06 2437MHz		4874	47.6	-26.4	74	62.99	33.77	10.87	60.03	300	0	P	H
		7311	43.31	-30.69	74	54.58	35.86	13.38	60.51	300	0	P	H
		4874	50.8	-23.2	74	66.19	33.77	10.87	60.03	230	6	P	V
		4874	40.01	-13.99	54	55.4	33.77	10.87	60.03	230	6	A	V
		7311	43.09	-30.91	74	54.36	35.86	13.38	60.51	300	360	P	v
802.11ax HE20 Full CH 09 2452MHz		4902	45.93	-28.07	74	61.24	33.8	10.91	60.02	300	0	P	H
		7356	43.33	-30.67	74	54.47	35.95	13.43	60.52	300	0	P	H
		4902	48.4	-25.6	74	63.71	33.8	10.91	60.02	300	360	P	V
		7356	42.98	-31.02	74	54.12	35.95	13.43	60.52	300	360	P	V
802.11ax HE20 Full CH 10 2457MHz		4914	43.44	-30.56	74	58.75	33.8	10.91	60.02	300	0	P	H
		7371	43.21	-30.79	74	54.31	35.98	13.45	60.53	300	0	P	H
		4914	47.26	-26.74	74	62.57	33.8	10.91	60.02	300	360	P	V
		7371	43.52	-30.48	74	54.62	35.98	13.45	60.53	300	360	P	V
802.11ax HE20 Full CH 11 2462MHz		4926	41.47	-32.53	74	56.73	33.82	10.94	60.02	100	360	P	H
		7386	42.55	-31.45	74	53.61	36.01	13.46	60.53	100	360	P	H
		4926	42.72	-31.28	74	57.98	33.82	10.94	60.02	100	360	P	V
		7386	43.54	-30.46	74	54.6	36.01	13.46	60.53	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 01 2412MHz		2388.39	61.94	-12.06	74	54.89	31.2	7.5	31.65	282	35	P	H
		2389.56	46.76	-7.24	54	39.71	31.2	7.5	31.65	282	35	A	H
		2404	114.53	-	-	107.34	31.31	7.53	31.65	282	35	P	H
		2404	106.15	-	-	98.96	31.31	7.53	31.65	282	35	A	H
		2389.95	70.4	-3.6	74	63.35	31.2	7.5	31.65	308	344	P	V
		2389.04	53.12	-0.88	54	46.07	31.2	7.5	31.65	308	344	A	V
		2404	122.77	-	-	115.58	31.31	7.53	31.65	308	344	P	V
		2404	114.38	-	-	107.19	31.31	7.53	31.65	308	344	A	V
802.11ax HE20 Partial 26/8 CH 11 2462MHz		2484.1	62.08	-11.92	74	54.25	31.77	7.64	31.58	269	36	P	H
		2483.8	47.25	-6.75	54	39.42	31.77	7.64	31.58	269	36	A	H
		2470	116.01	-	-	108.34	31.66	7.61	31.6	269	36	P	H
		2470	107.44	-	-	99.77	31.66	7.61	31.6	269	36	A	H
		2483.98	67.62	-6.38	74	59.79	31.77	7.64	31.58	267	340	P	V
		2483.5	53.05	-0.95	54	45.22	31.77	7.64	31.58	267	340	A	V
		2470	124.45	-	-	116.78	31.66	7.61	31.6	267	340	P	V
		2470	116.29	-	-	108.62	31.66	7.61	31.6	267	340	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/37 CH 01 2412MHz		2389.43	56.99	-17.01	74	49.94	31.2	7.5	31.65	100	274	P	H
		2389.43	46.5	-7.5	54	39.45	31.2	7.5	31.65	100	274	A	H
		2404	113.41	-	-	106.22	31.31	7.53	31.65	100	274	P	H
		2404	104.81	-	-	97.62	31.31	7.53	31.65	100	274	A	H
		2389.95	64.15	-9.85	74	57.1	31.2	7.5	31.65	309	346	P	V
		2389.43	53.42	-0.58	54	46.37	31.2	7.5	31.65	309	346	A	V
		2404	123.35	-	-	116.16	31.31	7.53	31.65	309	346	P	V
		2406	114.88	-	-	107.69	31.31	7.53	31.65	309	346	A	V
802.11ax HE20 Partial 52/40 CH 11 2462MHz		2483.5	60.68	-13.32	74	52.85	31.77	7.64	31.58	269	36	P	H
		2483.5	46.91	-7.09	54	39.08	31.77	7.64	31.58	269	36	A	H
		2468	114.35	-	-	106.68	31.66	7.61	31.6	269	36	P	H
		2468	105.14	-	-	97.47	31.66	7.61	31.6	269	36	A	H
		2483.5	69.77	-4.23	74	61.94	31.77	7.64	31.58	332	342	P	V
		2483.5	53.28	-0.72	54	45.45	31.77	7.64	31.58	332	342	A	V
		2470	121.79	-	-	114.12	31.66	7.61	31.6	332	342	P	V
		2468	112.81	-	-	105.14	31.66	7.61	31.6	332	342	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 01 2412MHz		2389.69	57.06	-16.94	74	50.01	31.2	7.5	31.65	274	26	P	H
		2389.56	46.8	-7.2	54	39.75	31.2	7.5	31.65	274	26	A	H
		2410	113.87	-	-	106.68	31.31	7.53	31.65	274	26	P	H
		2410	105.04	-	-	97.85	31.31	7.53	31.65	274	26	A	H
		2388.39	63.99	-10.01	74	56.94	31.2	7.5	31.65	309	342	P	V
		2389.56	53.51	-0.49	54	46.46	31.2	7.5	31.65	309	342	A	V
		2410	121.87	-	-	114.68	31.31	7.53	31.65	309	342	P	V
		2410	113.74	-	-	106.55	31.31	7.53	31.65	309	342	A	V
802.11ax HE20 Partial 106/54 CH 11 2462MHz		2483.62	57.08	-16.92	74	49.25	31.77	7.64	31.58	300	27	P	H
		2498.08	46.6	-7.4	54	38.6	31.89	7.67	31.56	300	27	A	H
		2466	111.88	-	-	104.21	31.66	7.61	31.6	300	27	P	H
		2466	101.65	-	-	93.98	31.66	7.61	31.6	300	27	A	H
		2483.5	66.38	-7.62	74	58.55	31.77	7.64	31.58	304	360	P	V
		2483.5	53.32	-0.68	54	45.49	31.77	7.64	31.58	304	360	A	V
		2468	119.58	-	-	111.91	31.66	7.61	31.6	304	360	P	V
		2464	110.94	-	-	103.27	31.66	7.61	31.6	304	360	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 2422MHz		2363.43	55.02	-18.98	74	48.06	31.18	7.44	31.66	275	6	P	H
		2389.56	45.99	-8.01	54	38.94	31.2	7.5	31.65	275	6	A	H
		2486.02	55.72	-18.28	74	47.89	31.77	7.64	31.58	275	6	P	H
		2486.86	46.44	-7.56	54	38.61	31.77	7.64	31.58	275	6	A	H
	*	2418	102.11	-	-	94.9	31.31	7.53	31.63	275	6	P	H
	*	2420	93.44	-	-	86.08	31.43	7.56	31.63	275	6	A	H
		2389.69	63.04	-10.96	74	55.99	31.2	7.5	31.65	185	329	P	V
		2389.43	53.67	-0.33	54	46.62	31.2	7.5	31.65	185	329	A	V
		2486.44	58.16	-15.84	74	50.33	31.77	7.64	31.58	185	329	P	V
		2496.52	48.31	-5.69	54	40.31	31.89	7.67	31.56	185	329	A	V
	*	2420	111.27	-	-	103.91	31.43	7.56	31.63	185	329	P	V
	*	2420	102.08	-	-	94.72	31.43	7.56	31.63	185	329	A	V
802.11ax HE40 Full CH 04 2427MHz		2368.5	55.45	-18.55	74	48.49	31.18	7.44	31.66	387	28	P	H
		2388.26	45.85	-8.15	54	38.8	31.2	7.5	31.65	387	28	A	H
		2485.66	55.9	-18.1	74	48.07	31.77	7.64	31.58	387	28	P	H
		2494.12	46.43	-7.57	54	38.43	31.89	7.67	31.56	387	28	A	H
	*	2424	103.59	-	-	96.23	31.43	7.56	31.63	387	28	P	H
	*	2424	94.98	-	-	87.62	31.43	7.56	31.63	387	28	A	H
		2389.17	65.05	-8.95	74	58	31.2	7.5	31.65	301	339	P	V
		2388.65	53.54	-0.46	54	46.49	31.2	7.5	31.65	301	339	A	V
		2496.88	58.3	-15.7	74	50.3	31.89	7.67	31.56	301	339	P	V
		2485.06	48.3	-5.7	54	40.47	31.77	7.64	31.58	301	339	A	V
	*	2424	111.79	-	-	104.43	31.43	7.56	31.63	301	339	P	V
	*	2426	103.33	-	-	95.97	31.43	7.56	31.63	301	339	A	V



802.11ax HE40 Full CH 05 2432MHz		2387.22	58.05	-15.95	74	51	31.2	7.5	31.65	306	25	P	H
		2389.43	48.5	-5.5	54	41.45	31.2	7.5	31.65	306	25	A	H
		2489.08	56.78	-17.22	74	48.8	31.89	7.67	31.58	306	25	P	H
		2497.06	46.86	-7.14	54	38.86	31.89	7.67	31.56	306	25	A	H
	*	2438	107.36	-	-	99.85	31.54	7.58	31.61	306	25	P	H
	*	2430	98.64	-	-	91.28	31.43	7.56	31.63	306	25	A	H
		2389.82	62.7	-11.3	74	55.65	31.2	7.5	31.65	305	345	P	V
		2389.3	53.59	-0.41	54	46.54	31.2	7.5	31.65	305	345	A	V
		2484.1	58.69	-15.31	74	50.86	31.77	7.64	31.58	305	345	P	V
		2485.9	49.25	-4.75	54	41.42	31.77	7.64	31.58	305	345	A	V
	*	2434	114.24	-	-	106.88	31.43	7.56	31.63	305	345	P	V
	*	2434	105.39	-	-	98.03	31.43	7.56	31.63	305	345	A	V
802.11ax HE40 Full CH 06 2437MHz		2388.91	56.77	-17.23	74	49.72	31.2	7.5	31.65	304	22	P	H
		2389.95	47.39	-6.61	54	40.34	31.2	7.5	31.65	304	22	A	H
		2483.5	56.31	-17.69	74	48.48	31.77	7.64	31.58	304	22	P	H
		2486.62	46.85	-7.15	54	39.02	31.77	7.64	31.58	304	22	A	H
	*	2438	107.59	-	-	100.08	31.54	7.58	31.61	304	22	P	H
	*	2436	98.46	-	-	91.08	31.43	7.56	31.61	304	22	A	H
		2389.43	63.46	-10.54	74	56.41	31.2	7.5	31.65	143	332	P	V
		2389.69	53.59	-0.41	54	46.54	31.2	7.5	31.65	143	332	A	V
		2483.5	61.33	-12.67	74	53.5	31.77	7.64	31.58	143	332	P	V
		2483.74	51.91	-2.09	54	44.08	31.77	7.64	31.58	143	332	A	V
	*	2436	116.74	-	-	109.36	31.43	7.56	31.61	143	332	P	V
	*	2434	108.19	-	-	100.83	31.43	7.56	31.63	143	332	A	V



802.11ax HE40 Full CH 09 2452MHz		2370.71	55.43	-18.57	74	48.43	31.19	7.47	31.66	298	11	P	H
		2368.5	45.84	-8.16	54	38.88	31.18	7.44	31.66	298	11	A	H
		2489.14	56.76	-17.24	74	48.78	31.89	7.67	31.58	298	11	P	H
		2483.92	47.06	-6.94	54	39.23	31.77	7.64	31.58	298	11	A	H
	*	2458	105.68	-	-	98.01	31.66	7.61	31.6	298	11	P	H
	*	2454	95.85	-	-	88.18	31.66	7.61	31.6	298	11	A	H
		2377.34	57.63	-16.37	74	50.63	31.19	7.47	31.66	240	335	P	V
		2388.26	48.35	-5.65	54	41.3	31.2	7.5	31.65	240	335	A	V
		2484.04	63.52	-10.48	74	55.69	31.77	7.64	31.58	240	335	P	V
		2484.1	53.61	-0.39	54	45.78	31.77	7.64	31.58	240	335	A	V
	*	2454	114.49	-	-	106.82	31.66	7.61	31.6	240	335	P	V
	*	2454	105.77	-	-	98.1	31.66	7.61	31.6	240	335	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		4842	40.89	-33.11	74	56.37	33.73	10.82	60.03	100	360	P	H
HE40 Full		7266	42.21	-31.79	74	53.57	35.8	13.35	60.51	100	360	P	H
CH 03		4842	40.48	-33.52	74	55.96	33.73	10.82	60.03	100	360	P	V
2422MHz		7266	43.49	-30.51	74	54.85	35.8	13.35	60.51	100	360	P	V
802.11ax		4854	40.59	-33.41	74	56.02	33.75	10.85	60.03	300	0	P	H
HE40 Full		7284	43.03	-30.97	74	54.34	35.83	13.37	60.51	300	0	P	H
CH 04		4854	40.53	-33.47	74	55.96	33.75	10.85	60.03	300	360	P	V
2427MHz		7281	42.81	-31.19	74	54.17	35.8	13.35	60.51	300	360	P	V
802.11ax		4866	40.06	-33.94	74	55.49	33.75	10.85	60.03	300	0	P	H
HE40 Full		7296	43.01	-30.99	74	54.32	35.83	13.37	60.51	300	0	P	H
CH 05		4866	41.12	-32.88	74	56.55	33.75	10.85	60.03	300	360	P	V
2432MHz		7296	43.17	-30.83	74	54.48	35.83	13.37	60.51	300	360	P	V
802.11ax		4872	41.38	-32.62	74	56.77	33.77	10.87	60.03	100	360	P	H
HE40 Full		7308	43.6	-30.4	74	54.87	35.86	13.38	60.51	100	360	P	H
CH 06		4872	41.52	-32.48	74	56.91	33.77	10.87	60.03	100	360	P	V
2437MHz		7308	43.2	-30.8	74	54.47	35.86	13.38	60.51	100	360	P	V
802.11ax		4926	42.11	-31.89	74	57.37	33.82	10.94	60.02	300	0	P	H
HE40 Full		7386	43.8	-30.2	74	54.86	36.01	13.46	60.53	300	0	P	H
CH 09		4926	40.65	-33.35	74	55.91	33.82	10.94	60.02	300	360	P	V
2452MHz		7386	43.06	-30.94	74	54.12	36.01	13.46	60.53	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 03 2422MHz		2374.74	55.47	-18.53	74	48.47	31.19	7.47	31.66	351	23	P	H
		2389.3	46.34	-7.66	54	39.29	31.2	7.5	31.65	351	23	A	H
		2488.48	56.15	-17.85	74	48.17	31.89	7.67	31.58	351	23	P	H
		2496.76	46.37	-7.63	54	38.37	31.89	7.67	31.56	351	23	A	H
		2416	104.21	-	-	97	31.31	7.53	31.63	351	23	P	H
		2420	95.13	-	-	87.77	31.43	7.56	31.63	351	23	A	H
		2389.69	61.11	-12.89	74	54.06	31.2	7.5	31.65	315	342	P	V
		2389.43	53.21	-0.79	54	46.16	31.2	7.5	31.65	315	342	A	V
		2486.5	57.8	-16.2	74	49.97	31.77	7.64	31.58	315	342	P	V
		2496.1	47.85	-6.15	54	39.85	31.89	7.67	31.56	315	342	A	V
		2420	112.97	-	-	105.61	31.43	7.56	31.63	315	342	P	V
		2420	103.38	-	-	96.02	31.43	7.56	31.63	315	342	A	V
802.11ax HE40 Partial 242/62 CH 09 2452MHz		2367.33	55.41	-18.59	74	48.45	31.18	7.44	31.66	298	25	P	H
		2385.01	45.53	-8.47	54	38.52	31.19	7.47	31.65	298	25	A	H
		2484.64	56.41	-17.59	74	48.58	31.77	7.64	31.58	298	25	P	H
		2484.22	46.86	-7.14	54	39.03	31.77	7.64	31.58	298	25	A	H
		2454	108.13	-	-	100.46	31.66	7.61	31.6	298	25	P	H
		2454	98.45	-	-	90.78	31.66	7.61	31.6	298	25	A	H
		2386.57	57.22	-16.78	74	50.17	31.2	7.5	31.65	268	332	P	V
		2383.19	48.16	-5.84	54	41.15	31.19	7.47	31.65	268	332	A	V
		2483.92	62.88	-11.12	74	55.05	31.77	7.64	31.58	268	332	P	V
		2484.16	53.4	-0.6	54	45.57	31.77	7.64	31.58	268	332	A	V
		2452	118.24	-	-	110.73	31.54	7.58	31.61	268	332	P	V
		2454	108.21	-	-	100.54	31.66	7.61	31.6	268	332	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11ax HE20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE20 LF		30.97	18.52	-21.48	40	25.31	24.57	0.84	32.2	-	-	P	H
		61.04	20.4	-19.6	40	39.2	11.96	1.34	32.1	-	-	P	H
		128.94	15.85	-27.65	43.5	28.41	17.6	1.98	32.14	-	-	P	H
		157.07	16.97	-26.53	43.5	30.2	16.68	2.19	32.1	-	-	P	H
		764.29	31.85	-14.15	46	31.14	28.2	4.81	32.3	100	0	P	H
		870.02	30.66	-15.34	46	28.63	29.22	5.13	32.32	-	-	P	H
		31.94	24.08	-15.92	40	31.38	24.04	0.86	32.2	-	-	P	V
		57.16	25.39	-14.61	40	43.6	12.65	1.3	32.16	100	0	P	V
		136.7	22.13	-21.37	43.5	34.69	17.53	2.04	32.13	-	-	P	V
		184.23	21.41	-22.09	43.5	36.16	14.98	2.37	32.1	-	-	P	V
		738.1	27.59	-18.41	46	27.3	27.85	4.72	32.28	-	-	P	V
		855.47	27.84	-18.16	46	25.86	29.28	5.08	32.38	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Sample 2

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 09 2452MHz		2483.56	58	-16	74	49.82	32.12	7.64	31.58	177	281	P	H
		2494	48.16	-5.84	54	39.95	32.1	7.67	31.56	177	281	A	H
	*	2454	113.44	-	-	105.3	32.13	7.61	31.6	177	281	P	H
	*	2454	104.78	-	-	96.64	32.13	7.61	31.6	177	281	A	H
		2487.4	66.38	-7.62	74	58.2	32.12	7.64	31.58	333	3	P	V
		2485.54	52.07	-1.93	54	43.89	32.12	7.64	31.58	333	3	A	V
	*	2452	120.69	-	-	112.57	32.15	7.58	31.61	333	3	P	V
	*	2454	111.19	-	-	103.05	32.13	7.61	31.6	333	3	A	V

**2.4GHz 2400~2483.5MHz****WIFI 802.11 ax HE20 Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		4902	40.35	-33.65	74	55.11	34.35	10.91	60.02	300	0	P	H
HE20 Full		7356	43.25	-30.75	74	54.41	35.93	13.43	60.52	300	0	P	H
CH 09		4902	40.57	-33.43	74	55.33	34.35	10.91	60.02	300	360	P	V
2452MHz		7356	43.2	-30.8	74	54.36	35.93	13.43	60.52	300	360	P	V



2.4GHz 2400~2483.5MHz

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

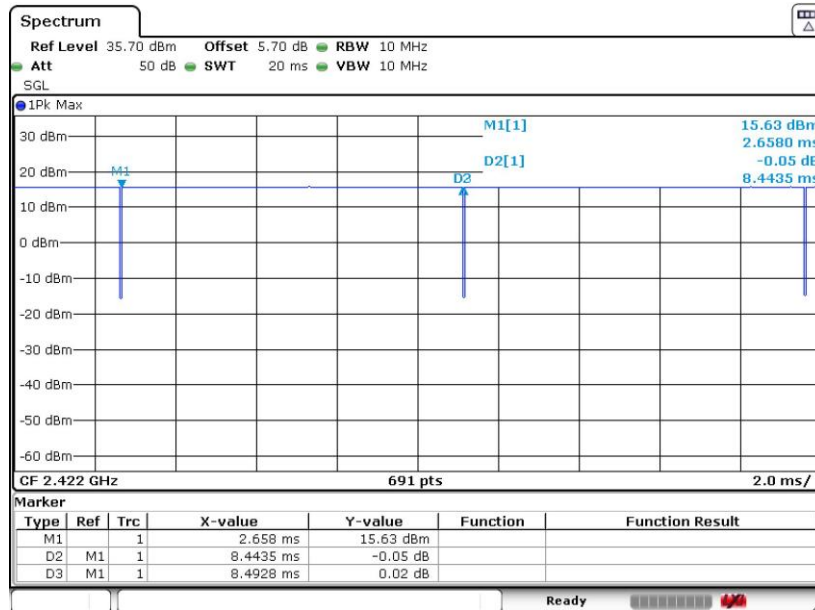
Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

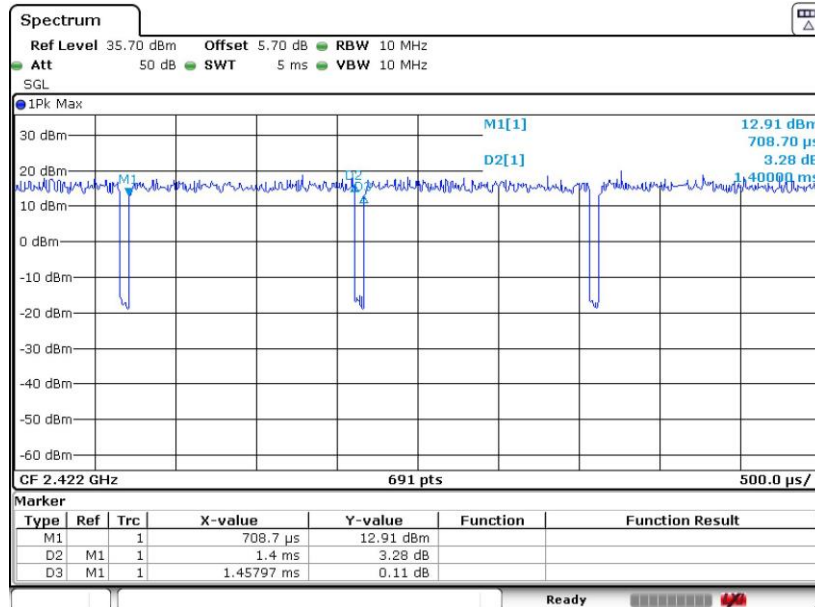
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11b	99.42	-	-	10Hz
1+2	802.11g	96.02	1.400	0.714	0.75KHz
1+2	802.11n HT20	95.75	1.306	0.766	0.82kHz
1+2	802.11n HT40	91.82	0.651	1.537	1.6KHz
1+2	802.11ax HE20	90.68	0.564	1.774	1.8kHz
1+2	802.11ax HE40	84.79	0.323	3.094	3.3kHz
1+2	802.11ax HE20 ru26	96.14	1.442	0.693	1.3kHz
1+2	802.11ax HE20 ru52	94.03	0.913	1.095	2kHz
1+2	802.11ax HE20 ru106	91.58	0.630	1.586	2.7kHz
1+2	802.11ax HE40 ru242	88.95	0.467	2.143	3.3kHz



802.11b

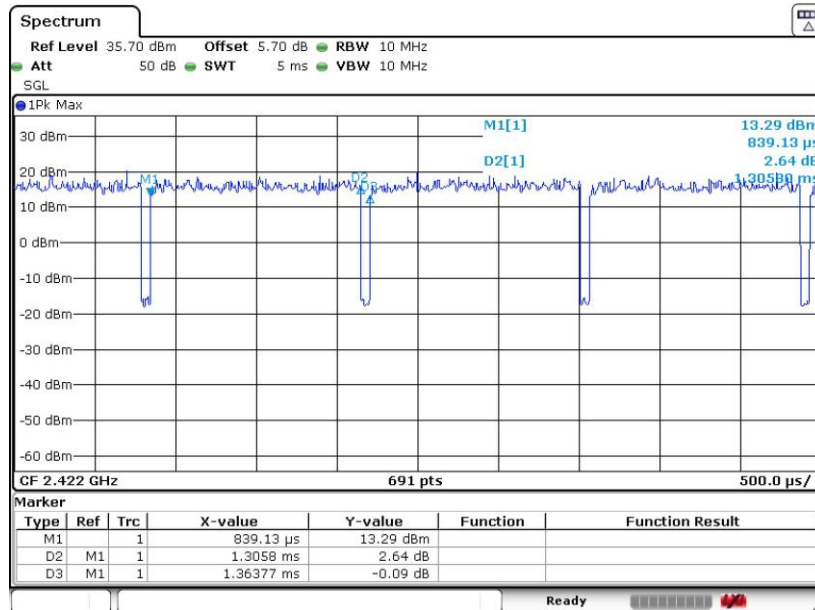


802.11g

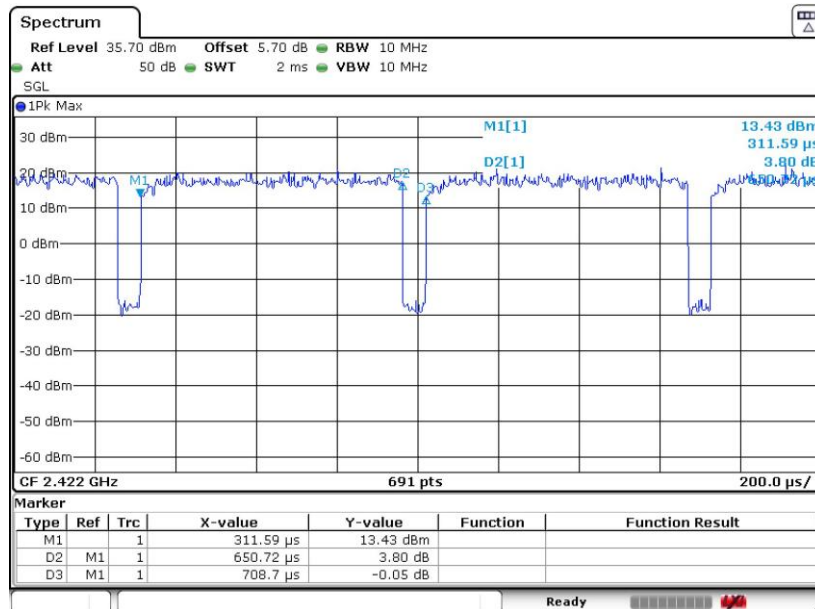




802.11n HT20

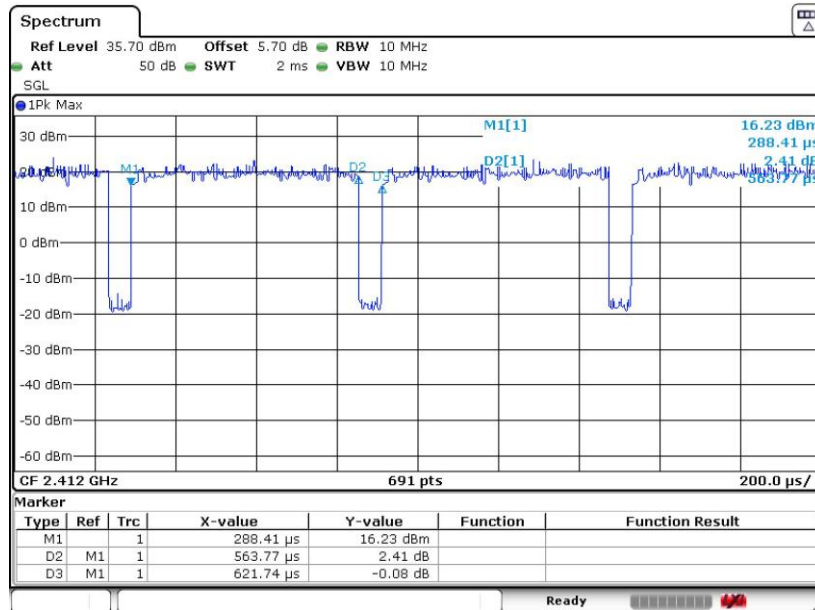


802.11n HT40

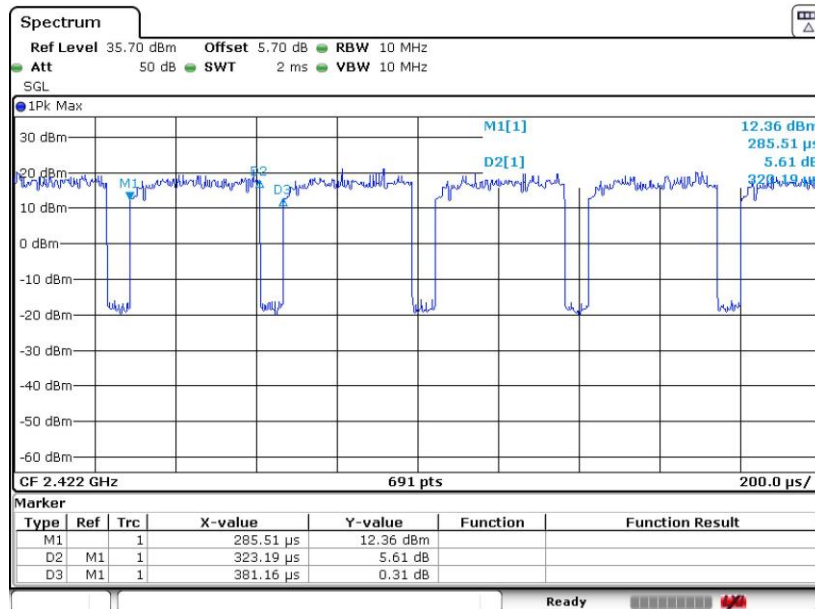




802.11ax HE20

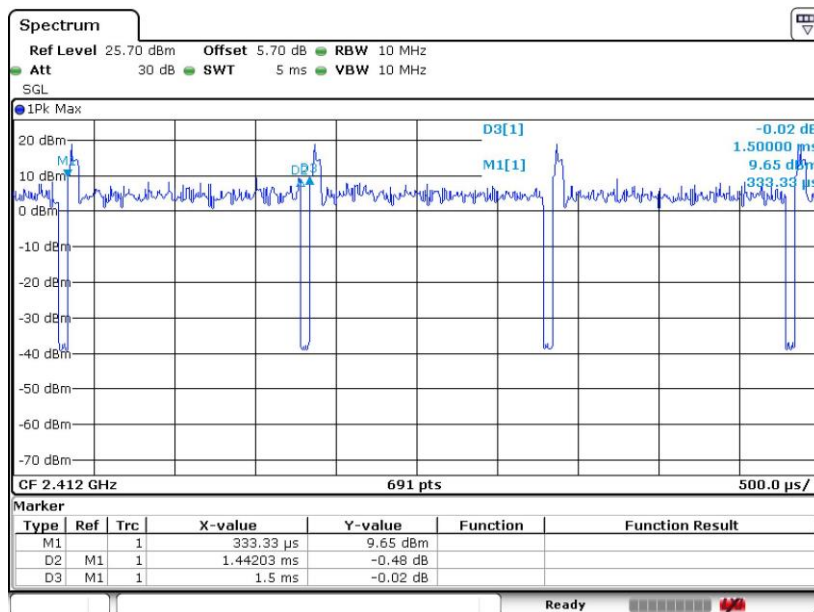


802.11ax HE40

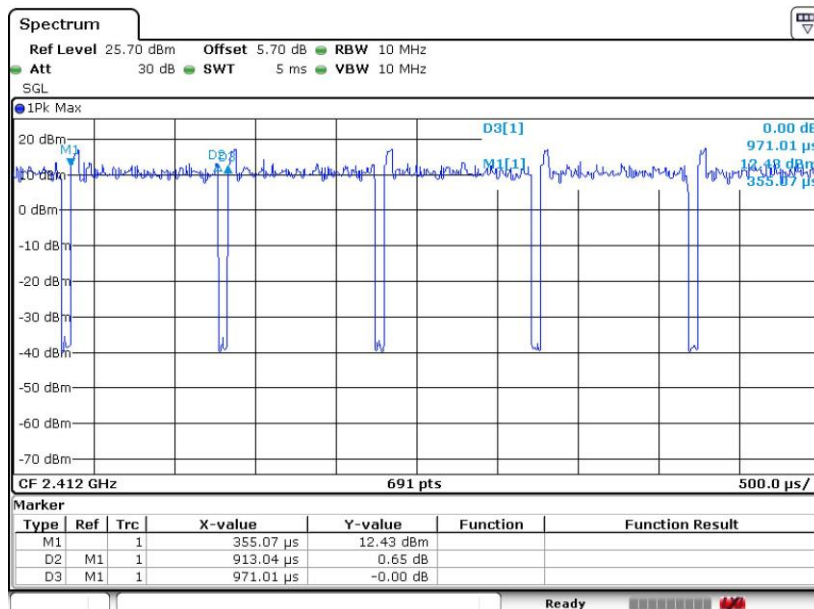




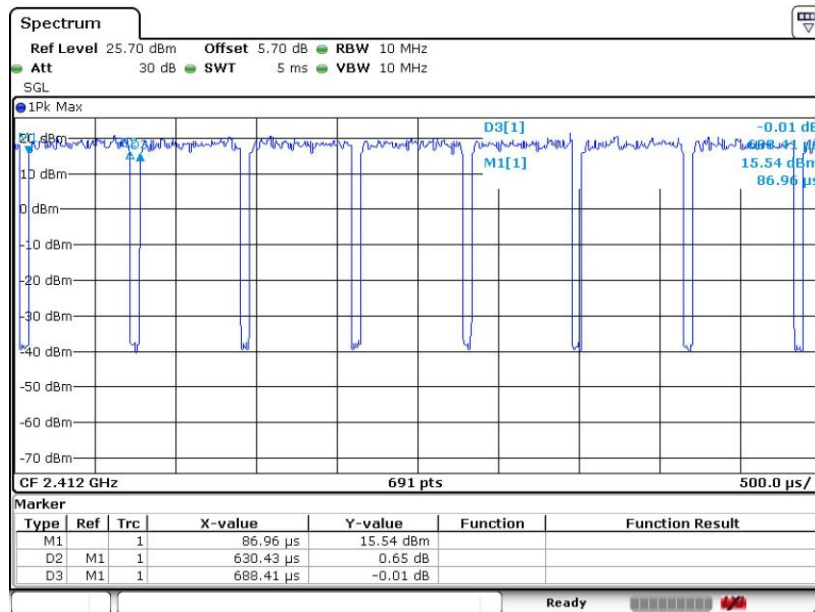
802.11ax HE20 ru26



802.11ax HE20 ru52



802.11ax HE20 ru106



802.11ax HE40 ru242

