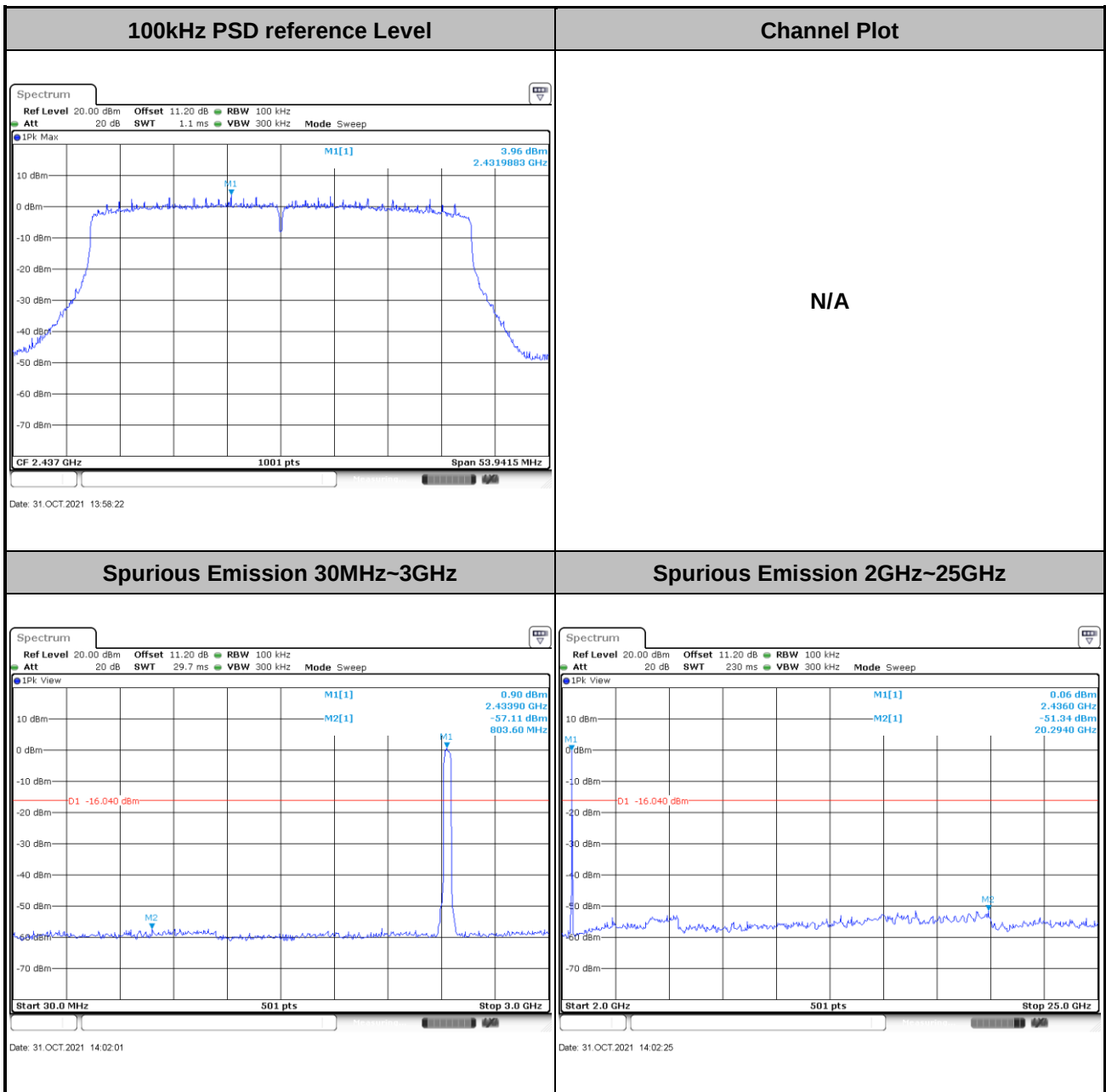
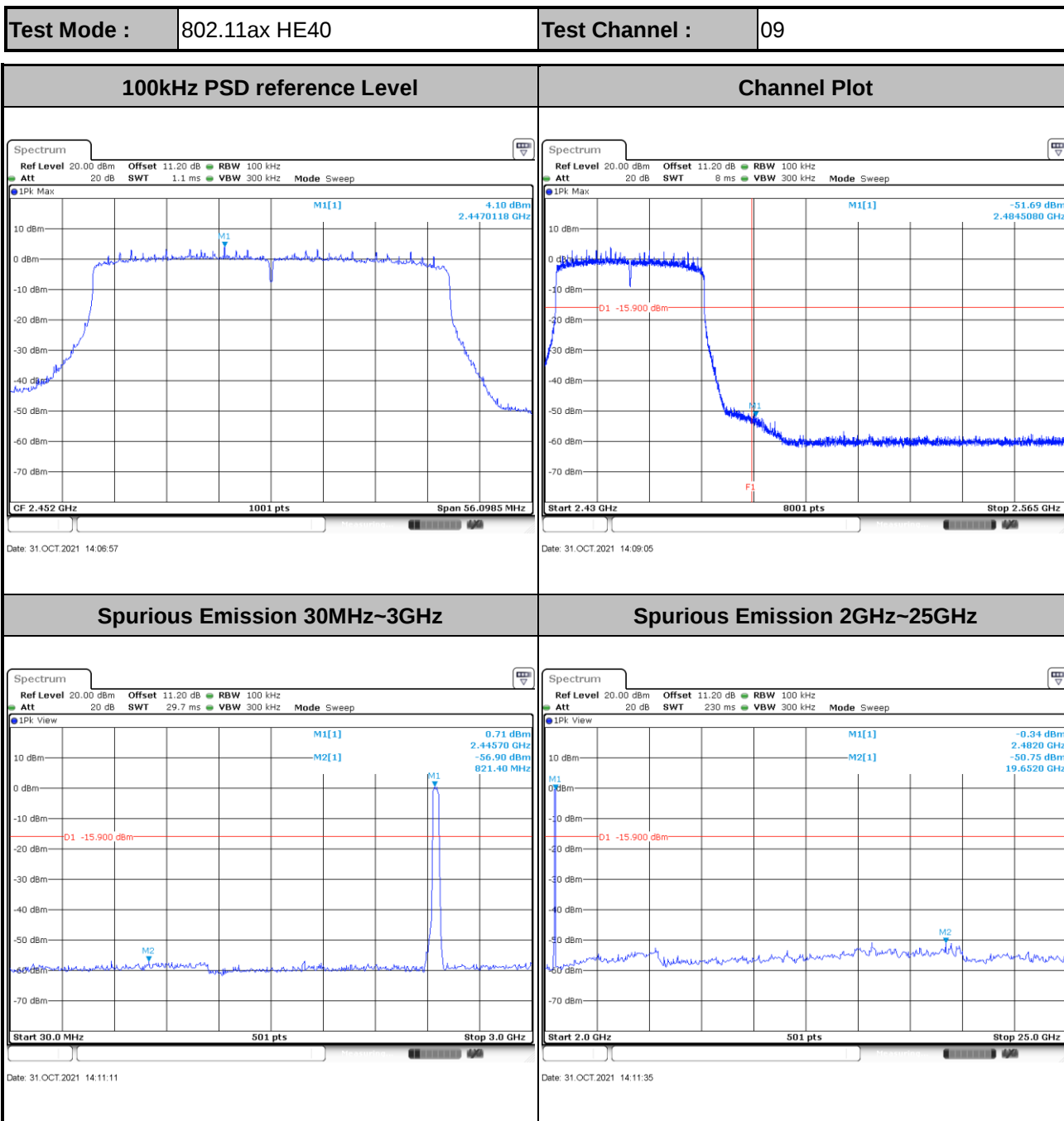




Test Mode :	802.11ax HE40	Test Channel :	06
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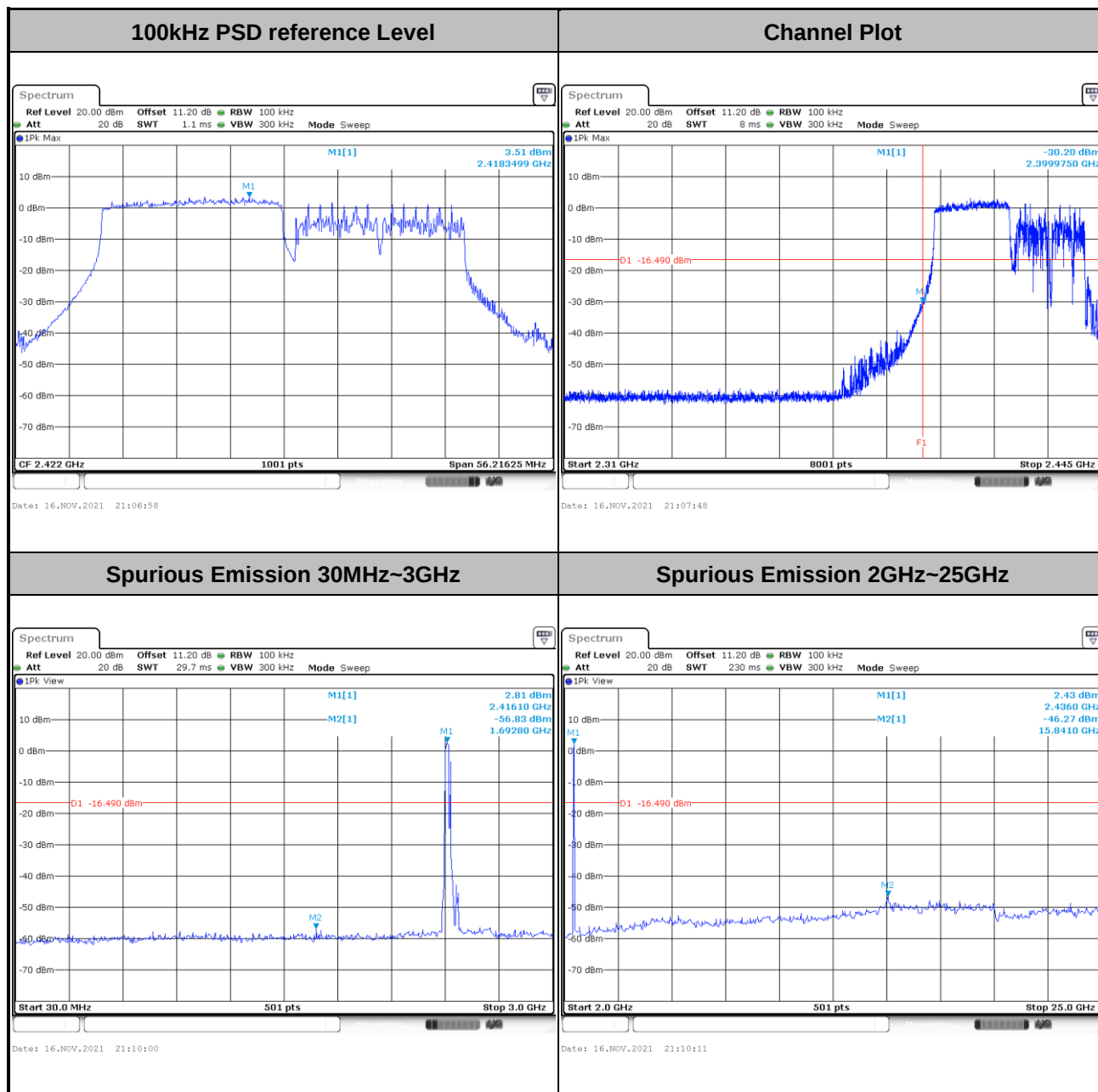


<HE40 Partial RU Verify>

The 11ax HE40 Partial RU power > Full RU, therefore the Partial RU verify the BE and CSE.

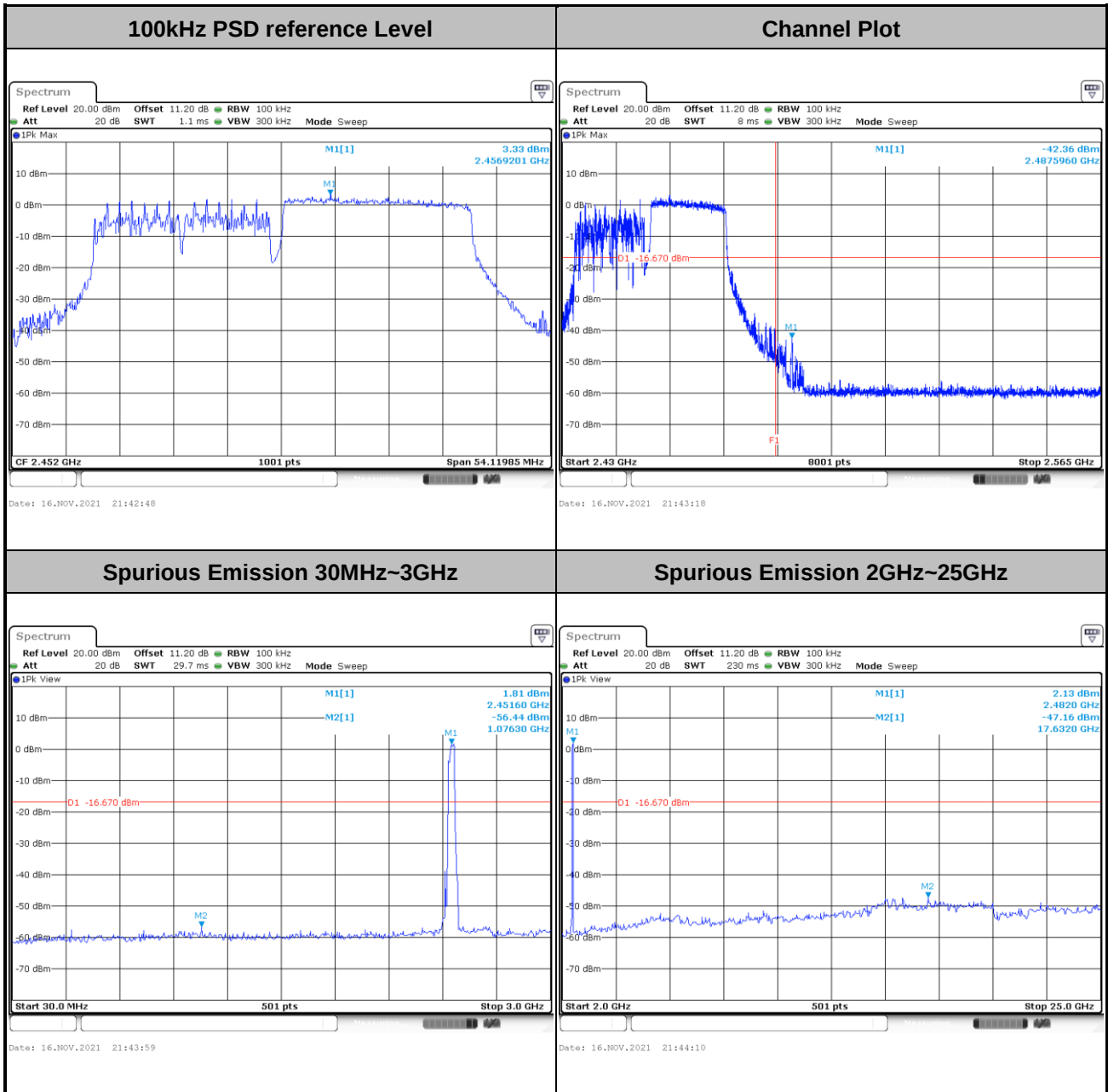
Number of TX = 2, Ant. 4 (Measured)

Test Mode :	802.11ax HE40	Test Channel :	03
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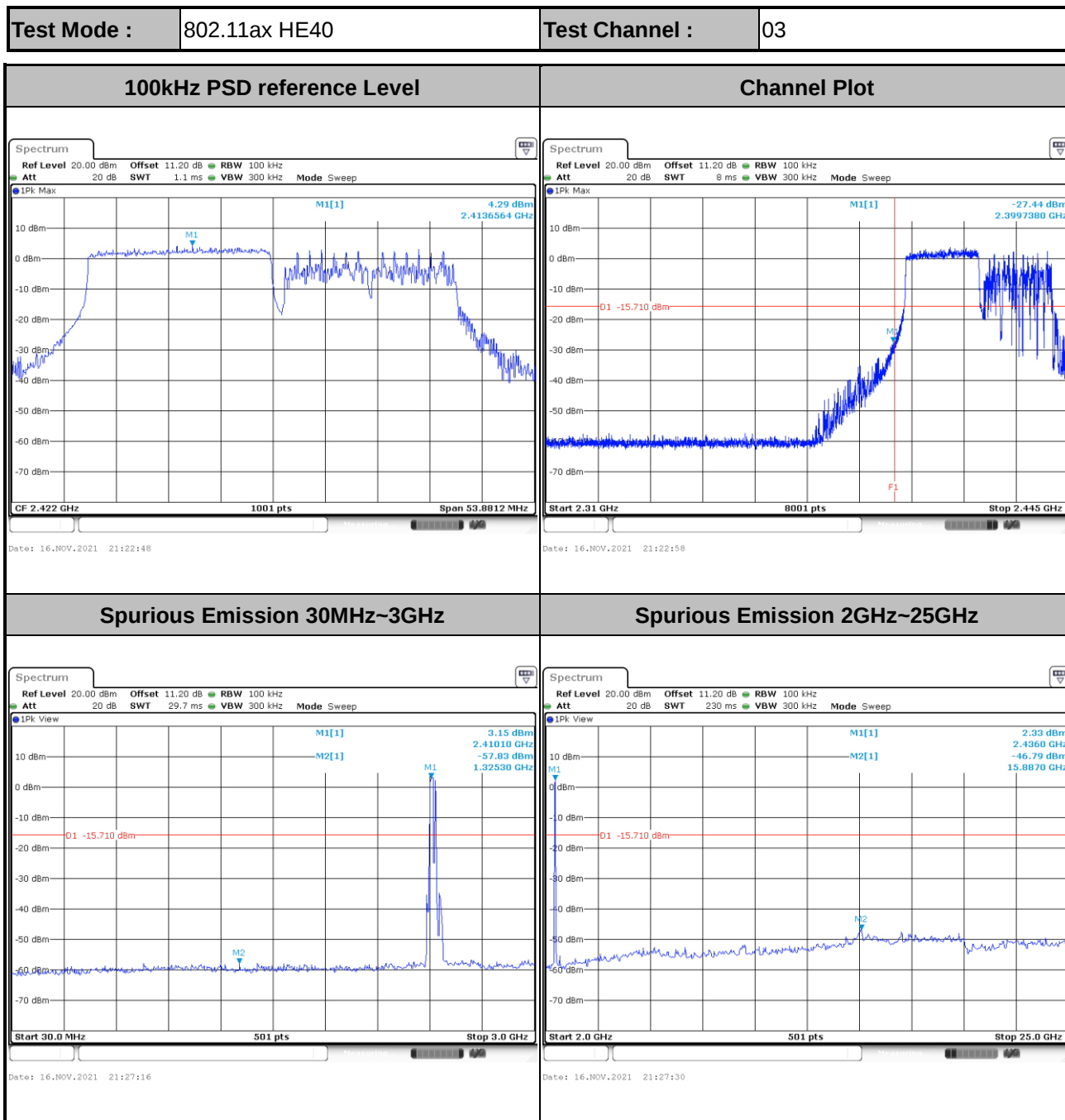


Test Mode :	802.11ax HE40	Test Channel :	09
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Number of TX = 2, Ant. 6 (Measured)

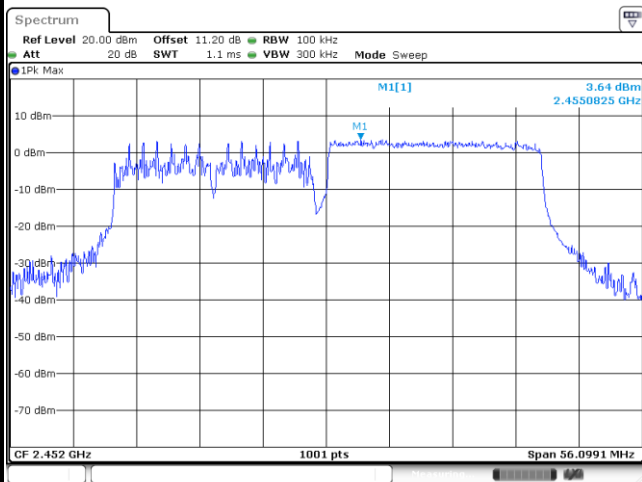




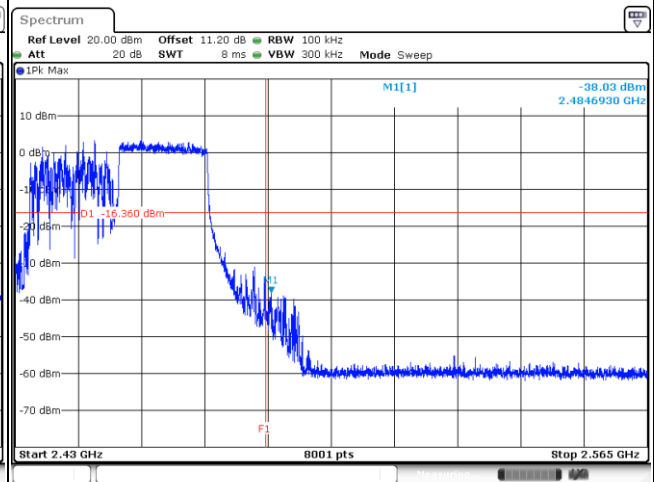
Test Mode : 802.11ax HE40

Test Channel : 09

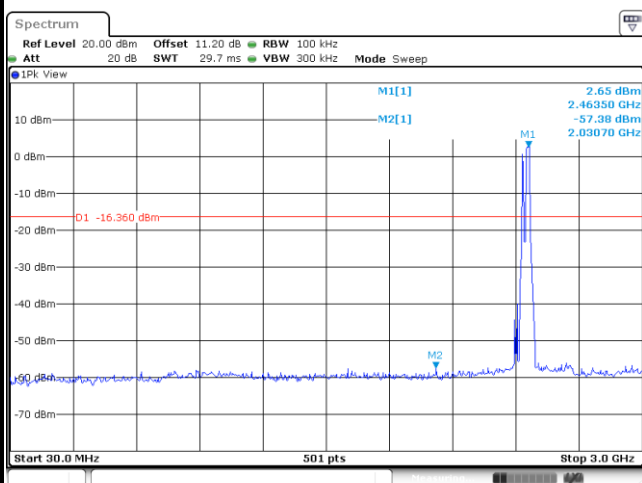
100kHz PSD reference Level



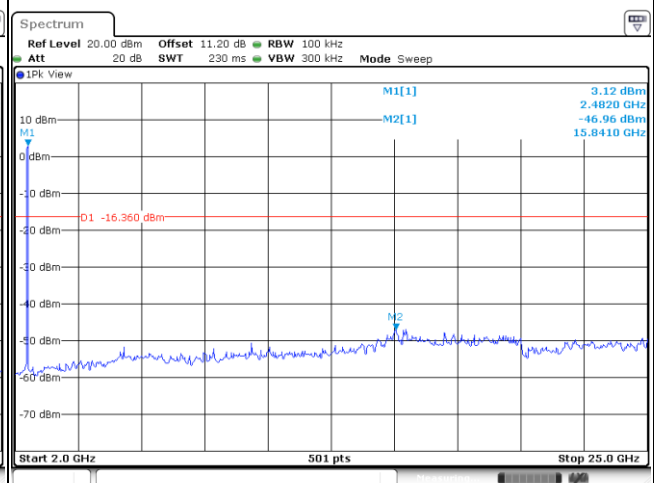
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz



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

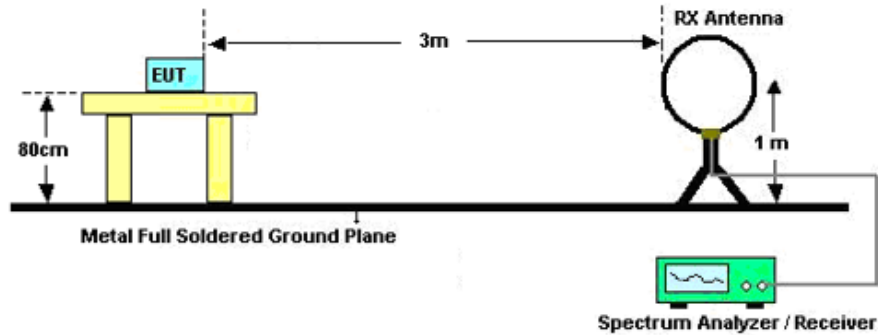
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

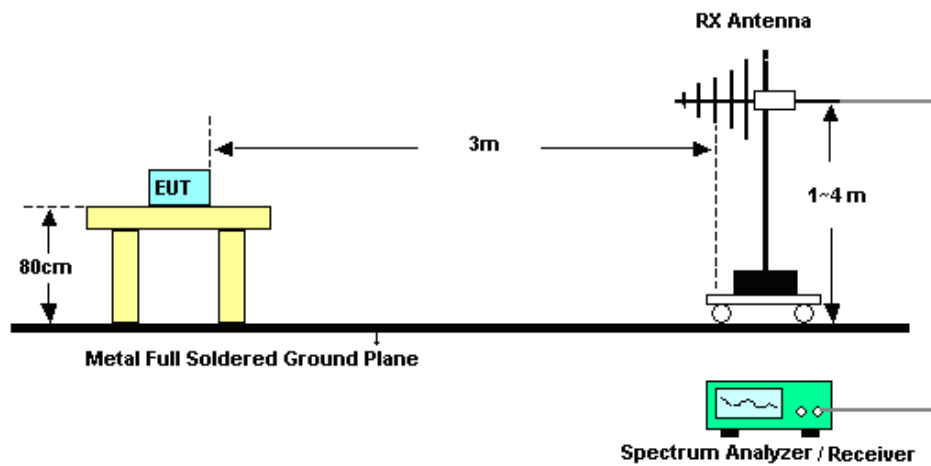
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 peak 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

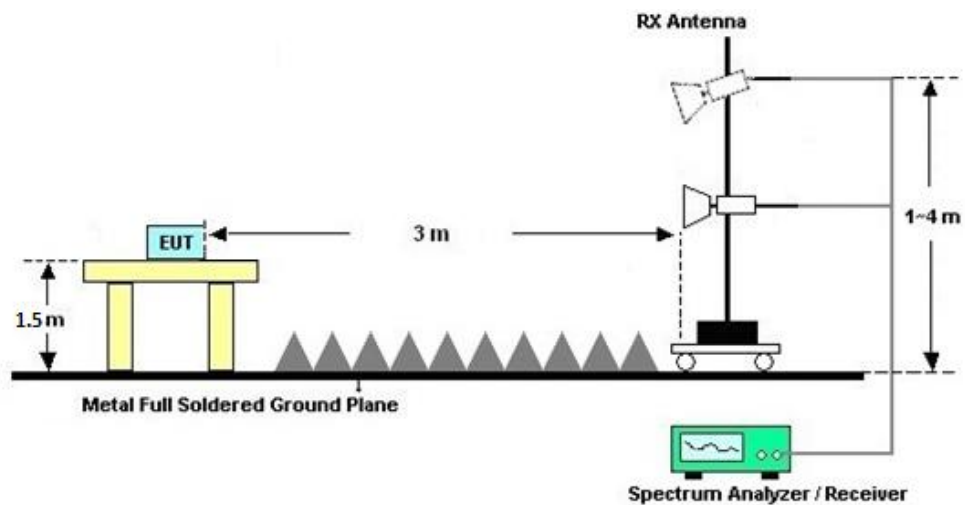
For radiated emissions below 30MHz



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 or 40GHz, whichever is lower)

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.

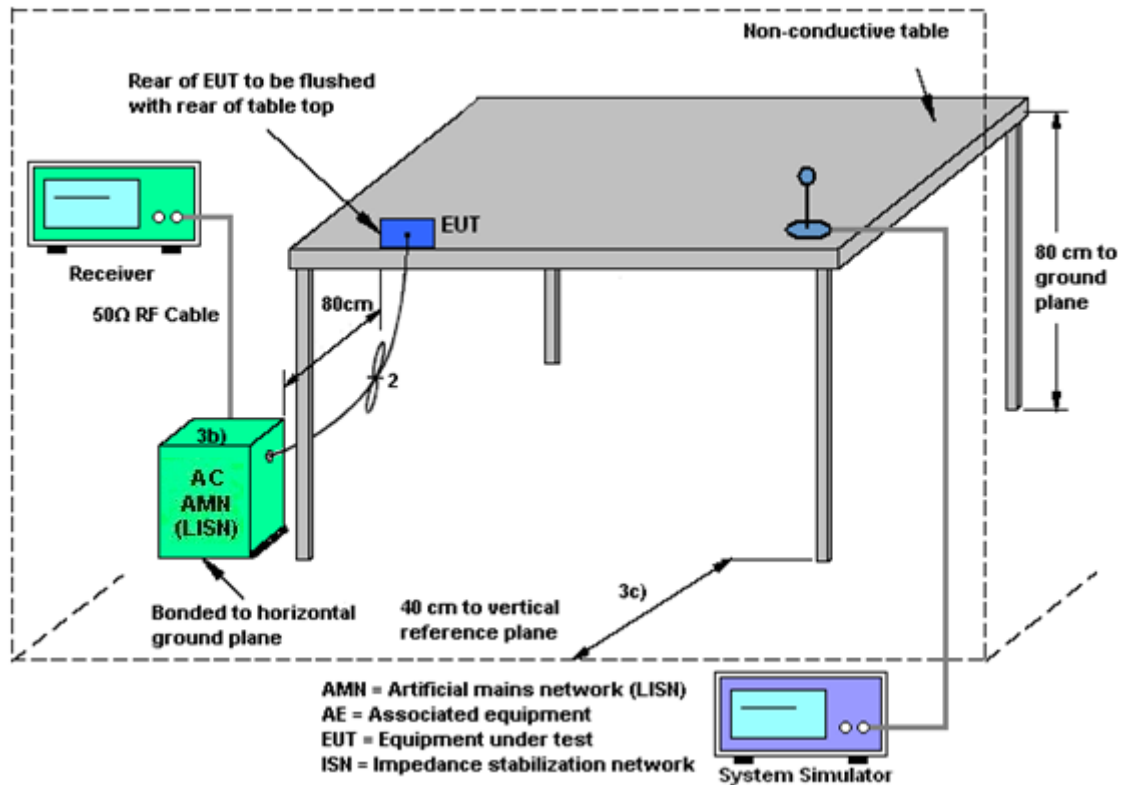
3.6.2 Measuring Instruments

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>						
2.4 GHz	Ant. 4	Ant. 6	DG	DG	Power	PSD
			for	for	Limit	Limit
			Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
	-1.50	0.50	0.50	2.57	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	101078	10Hz~40GHz	Apr. 08, 2021	Oct. 31, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 25, 2020	Oct. 31, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 25, 2020	Oct. 31, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 03, 2020	Nov. 26, 2021	Dec. 02, 2021	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2021	Nov. 26, 2021	Jul. 20, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Nov. 26, 2021	Jun. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2021	Nov. 26, 2021	Jul. 14, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Nov. 26, 2021	Jul. 24, 2022	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 11, 2021	Nov. 26, 2021	Apr.10 2022	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 07, 2021	Nov. 26, 2021	Apr. 06, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 16, 2021	Nov. 26, 2021	Oct.15, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 16, 2021	Nov. 26, 2021	Oct. 15, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2021	Nov. 26, 2021	Jul. 20, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Nov. 26, 2021	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 26, 2021	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 26, 2021	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 08, 2021	Oct. 30, 2021	Mar. 07, 2022	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Oct. 30, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2021	Oct. 30, 2021	Oct. 14, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 14, 2021	Oct. 30, 2021	Jul. 13, 2022	Conduction (CO01-SZ)

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 (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3dB
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———— THE END ————



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Chen Hong	Temperature:	21~25	°C
Test Date:	2021/10/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	17.30	17.60	20.46	0.50		20.96		Pass
11b	1Mbps	2	6	2437	17.40	17.70	20.56	0.50		21.06		Pass
11b	1Mbps	2	11	2462	17.20	17.60	20.41	0.50		20.91		Pass
11g	6Mbps	2	1	2412	16.00	17.10	19.60	0.50		20.10		Pass
11g	6Mbps	2	6	2437	16.10	16.80	19.47	0.50		19.97		Pass
11g	6Mbps	2	11	2462	15.80	16.90	19.40	0.50		19.90		Pass
HT20	MCS0	2	1	2412	15.70	16.80	19.30	0.50		19.80		Pass
HT20	MCS0	2	6	2437	15.80	16.50	19.17	0.50		19.67		Pass
HT20	MCS0	2	11	2462	15.60	16.70	19.20	0.50		19.70		Pass
HT40	MCS0	2	3	2422	16.30	16.90	19.62	0.50		20.12		Pass
HT40	MCS0	2	6	2437	16.30	17.10	19.73	0.50		20.23		Pass
HT40	MCS0	2	9	2452	16.10	17.00	19.58	0.50		20.08		Pass
VHT20	MCS0	2	1	2412	15.60	16.70	19.20	0.50		19.70		Pass
VHT20	MCS0	2	6	2437	15.70	16.40	19.07	0.50		19.57		Pass
VHT20	MCS0	2	11	2462	15.50	16.50	19.04	0.50		19.54		Pass
VHT40	MCS0	2	3	2422	16.20	16.80	19.52	0.50		20.02		Pass
VHT40	MCS0	2	6	2437	16.20	17.00	19.63	0.50		20.13		Pass
VHT40	MCS0	2	9	2452	16.00	16.90	19.48	0.50		19.98		Pass

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	19.68	19.86	22.78	30.00		0.50		23.28		36.00		Pass
11b	1Mbps	2	6	2437	19.87	19.94	22.92	30.00		0.50		23.42		36.00		Pass
11b	1Mbps	2	11	2462	19.58	19.82	22.71	30.00		0.50		23.21		36.00		Pass
11g	6Mbps	2	1	2412	22.19	23.28	25.78	30.00		0.50		26.28		36.00		Pass
11g	6Mbps	2	6	2437	22.22	23.16	25.73	30.00		0.50		26.23		36.00		Pass
11g	6Mbps	2	11	2462	22.14	23.17	25.70	30.00		0.50		26.20		36.00		Pass
HT20	MCS0	2	1	2412	22.19	23.15	25.71	30.00		0.50		26.21		36.00		Pass
HT20	MCS0	2	6	2437	22.11	22.95	25.56	30.00		0.50		26.06		36.00		Pass
HT20	MCS0	2	11	2462	22.09	23.15	25.66	30.00		0.50		26.16		36.00		Pass
HT40	MCS0	2	3	2422	22.85	23.48	26.19	30.00		0.50		26.69		36.00		Pass
HT40	MCS0	2	6	2437	22.94	23.58	26.28	30.00		0.50		26.78		36.00		Pass
HT40	MCS0	2	9	2452	22.84	23.54	26.21	30.00		0.50		26.71		36.00		Pass
VHT20	MCS0	2	1	2412	22.18	22.94	25.59	30.00		0.50		26.09		36.00		Pass
VHT20	MCS0	2	6	2437	22.10	22.73	25.44	30.00		0.50		25.94		36.00		Pass
VHT20	MCS0	2	11	2462	21.99	22.97	25.52	30.00		0.50		26.02		36.00		Pass
VHT40	MCS0	2	3	2422	22.79	23.43	26.13	30.00		0.50		26.63		36.00		Pass
VHT40	MCS0	2	6	2437	22.89	23.51	26.22	30.00		0.50		26.72		36.00		Pass
VHT40	MCS0	2	9	2452	22.75	23.42	26.11	30.00		0.50		26.61		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	15.80	16.90	19.40	0.50		19.90		Pass
HE20	MCS0	2	1	2412	26/0	5.40	7.20	9.40	0.50		9.90		Pass
HE20	MCS0	2	1	2412	52/37	8.00	10.10	12.19	0.50		12.69		Pass
HE20	MCS0	2	1	2412	106/53	11.20	12.60	14.97	0.50		15.47		Pass
HE20	MCS0	2	6	2437	Full	15.90	16.60	19.27	0.50		19.77		Pass
HE20	MCS0	2	11	2462	Full	15.70	16.80	19.30	0.50		19.80		Pass
HE20	MCS0	2	11	2462	26/8	5.40	7.40	9.52	0.50		10.02		Pass
HE20	MCS0	2	11	2462	52/40	6.50	9.00	10.94	0.50		11.44		Pass
HE20	MCS0	2	11	2462	106/54	11.00	12.60	14.88	0.50		15.38		Pass
HE40	MCS0	2	3	2422	Full	16.20	17.10	19.68	0.50		20.18		Pass
HE40	MCS0	2	3	2422	242/61	16.70	17.50	20.13	0.50		20.63		Pass
HE40	MCS0	2	6	2437	Full	16.30	17.00	19.67	0.50		20.17		Pass
HE40	MCS0	2	9	2452	Full	16.20	17.20	19.74	0.50		20.24		Pass
HE40	MCS0	2	9	2452	242/62	16.30	17.40	19.90	0.50		20.40		Pass

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	23.47	24.35	26.94	30.00	0.50		27.44		36.00		Pass	
HE20	MCS0	2	1	2412	26/0	17.14	18.19	20.71	30.00	0.50		21.21		36.00		Pass	
HE20	MCS0	2	1	2412	52/37	19.19	20.85	23.11	30.00	0.50		23.61		36.00		Pass	
HE20	MCS0	2	1	2412	106/53	22.28	23.66	26.03	30.00	0.50		26.53		36.00		Pass	
HE20	MCS0	2	6	2437	Full	23.15	24.24	26.74	30.00	0.50		27.24		36.00		Pass	
HE20	MCS0	2	11	2462	Full	23.00	24.20	26.65	30.00	0.50		27.15		36.00		Pass	
HE20	MCS0	2	11	2462	26/8	16.63	18.33	20.57	30.00	0.50		21.07		36.00		Pass	
HE20	MCS0	2	11	2462	52/40	17.35	19.43	21.52	30.00	0.50		22.02		36.00		Pass	
HE20	MCS0	2	11	2462	106/54	21.43	23.05	25.33	30.00	0.50		25.83		36.00		Pass	
HE40	MCS0	2	3	2422	Full	23.57	24.32	26.97	30.00	0.50		27.47		36.00		Pass	
HE40	MCS0	2	3	2422	242/61	26.43	27.01	28.77	30.00	0.50		29.27		36.00		Pass	
HE40	MCS0	2	6	2437	Full	23.68	24.35	27.04	30.00	0.50		27.54		36.00		Pass	
HE40	MCS0	2	9	2452	Full	23.55	24.41	27.01	30.00	0.50		27.51		36.00		Pass	
HE40	MCS0	2	9	2452	242/62	26.12	26.83	28.41	30.00	0.50		28.91		36.00		Pass	

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	13.04	13.24	8.04	8.08	0.50	Pass
11b	1Mbps	2	6	2437	13.39	13.19	8.06	7.58	0.50	Pass
11b	1Mbps	2	11	2462	13.24	13.24	7.56	7.60	0.50	Pass
11g	6Mbps	2	1	2412	16.88	17.08	15.64	16.06	0.50	Pass
11g	6Mbps	2	6	2437	17.03	17.13	16.04	16.04	0.50	Pass
11g	6Mbps	2	11	2462	16.93	17.08	15.74	16.02	0.50	Pass
HT20	MCS0	2	1	2412	17.93	18.08	15.98	15.98	0.50	Pass
HT20	MCS0	2	6	2437	18.08	18.08	16.82	16.30	0.50	Pass
HT20	MCS0	2	11	2462	17.98	18.08	16.04	16.81	0.50	Pass
HT40	MCS0	2	3	2422	35.96	35.96	34.16	35.12	0.50	Pass
HT40	MCS0	2	6	2437	36.06	36.06	35.68	35.12	0.50	Pass
HT40	MCS0	2	9	2452	35.86	36.06	35.32	35.32	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	1	1	2412	Full	19.18	19.28	18.30	18.57	0.50	Pass
HE20	MCS0	1	6	2437	Full	19.33	19.23	18.60	17.78	0.50	Pass
HE20	MCS0	1	11	2462	Full	19.23	19.23	17.22	16.98	0.50	Pass
HE40	MCS0	1	3	2422	Full	37.66	37.66	37.48	35.92	0.50	Pass
HE40	MCS0	1	6	2437	Full	37.76	37.76	37.38	35.96	0.50	Pass
HE40	MCS0	1	9	2452	Full	37.66	37.66	36.08	37.40	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	-5.65	-5.58	-2.57	2.57		8.00		Pass
11b	1Mbps	2	6	2437	-5.52	-5.25	-2.24	2.57		8.00		Pass
11b	1Mbps	2	11	2462	-5.79	-4.62	-1.61	2.57		8.00		Pass
11g	6Mbps	2	1	2412	-8.83	-9.18	-5.82	2.57		8.00		Pass
11g	6Mbps	2	6	2437	-9.27	-7.89	-4.88	2.57		8.00		Pass
11g	6Mbps	2	11	2462	-8.23	-8.02	-5.01	2.57		8.00		Pass
HT20	MCS0	2	1	2412	-7.33	-6.43	-3.42	2.57		8.00		Pass
HT20	MCS0	2	6	2437	-6.95	-5.44	-2.43	2.57		8.00		Pass
HT20	MCS0	2	11	2462	-6.86	-7.23	-3.85	2.57		8.00		Pass
HT40	MCS0	2	3	2422	-12.29	-11.77	-8.76	2.57		8.00		Pass
HT40	MCS0	2	6	2437	-13.14	-11.32	-8.31	2.57		8.00		Pass
HT40	MCS0	2	9	2452	-12.42	-11.88	-8.87	2.57		8.00		Pass

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

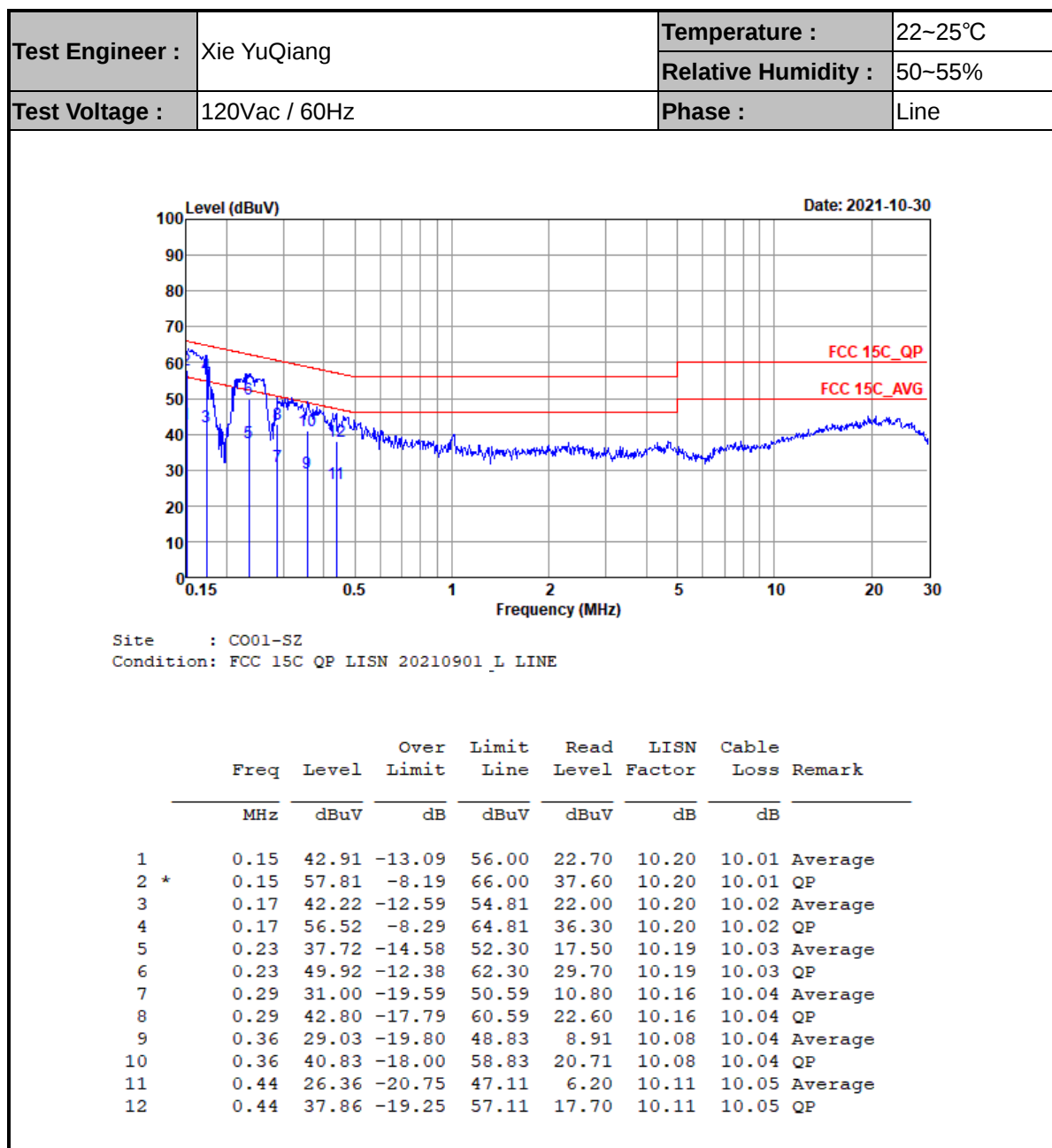
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-10.76	-9.64	-6.63	2.57		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-11.21	-9.69	-6.68	2.57		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-11.70	-9.82	-6.81	2.57		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-11.40	-10.06	-7.05	2.57		8.00		Pass
HE20	MCS0	2	6	2437	Full	-10.75	-10.21	-7.20	2.57		8.00		Pass
HE20	MCS0	2	11	2462	Full	-10.56	-9.10	-6.09	2.57		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-11.72	-9.58	-6.57	2.57		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-11.90	-9.38	-6.37	2.57		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-11.13	-9.71	-6.70	2.57		8.00		Pass
HE40	MCS0	2	3	2422	Full	-12.54	-11.20	-8.19	2.57		8.00		Pass
HE40	MCS0	2	3	2422	242/61	-8.55	-8.78	-5.54	2.57		8.00		Pass
HE40	MCS0	2	6	2437	Full	-12.67	-10.99	-7.98	2.57		8.00		Pass
HE40	MCS0	2	9	2452	Full	-12.66	-11.03	-8.02	2.57		8.00		Pass
HE40	MCS0	2	9	2452	242/62	-9.99	-8.96	-5.95	2.57		8.00		Pass

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

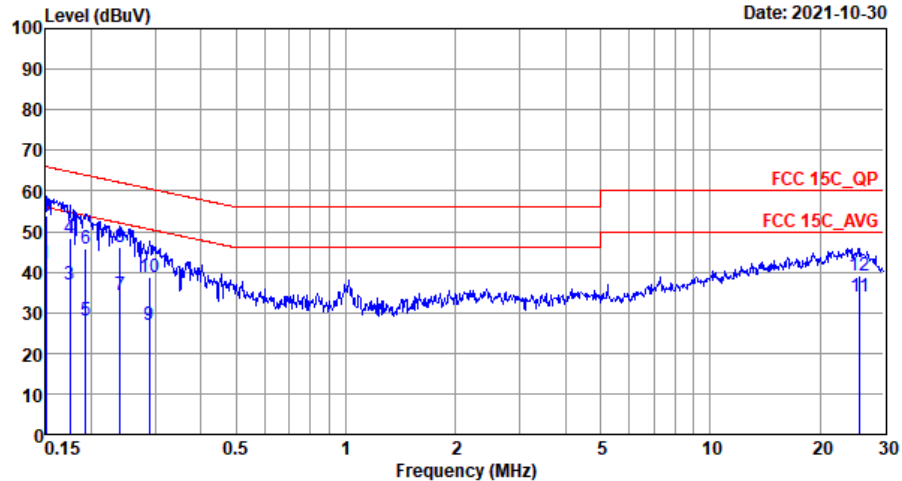


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Xie YuQiang	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-SZ
Condition: FCC 15C_QP LISN 20210901_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	42.22	-13.78	56.00	21.90	10.31	10.01	Average
2 *	0.15	53.82	-12.18	66.00	33.50	10.31	10.01	QP
3	0.17	37.03	-17.69	54.72	16.70	10.31	10.02	Average
4	0.17	48.43	-16.29	64.72	28.10	10.31	10.02	QP
5	0.19	27.91	-25.98	53.89	7.59	10.29	10.03	Average
6	0.19	45.71	-18.18	63.89	25.39	10.29	10.03	QP
7	0.24	34.49	-17.59	52.08	14.20	10.26	10.03	Average
8	0.24	46.09	-15.99	62.08	25.80	10.26	10.03	QP
9	0.29	27.06	-23.48	50.54	6.80	10.22	10.04	Average
10	0.29	38.76	-21.78	60.54	18.50	10.22	10.04	QP
11	25.73	33.92	-16.08	50.00	13.09	10.23	10.60	Average
12	25.73	39.02	-20.98	60.00	18.19	10.23	10.60	QP

Note:

1. $\text{Level(dB}\mu\text{V)} = \text{Read Level(dB}\mu\text{V)} + \text{LISN Factor(dB)} + \text{Cable Loss(dB)}$
2. $\text{Over Limit(dB)} = \text{Level(dB}\mu\text{V)} - \text{Limit Line(dB}\mu\text{V)}$



Appendix C. Radiated Spurious Emission

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	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2335.72	55.46	-18.54	74	46.49	32.1	9.57	32.7	135	10	P	H
		2389.8	44.98	-9.02	54	36.04	32	9.64	32.7	135	10	A	H
		2412	114.98	-	-	105.92	32.1	9.66	32.7	135	10	P	H
		2412	112.51	-	-	103.45	32.1	9.66	32.7	135	10	A	H
		2344.96	55.58	-18.42	74	46.6	32.1	9.58	32.7	122	48	P	V
		2389.8	44.58	-9.42	54	35.64	32	9.64	32.7	122	48	A	V
		2412	105.95	-	-	96.89	32.1	9.66	32.7	122	48	P	V
		2412	102.99	-	-	93.93	32.1	9.66	32.7	122	48	A	V
802.11b CH 06 2437MHz		2354.8	55.81	-18.19	74	46.84	32.07	9.6	32.7	132	9	P	H
		2389.38	44.53	-9.47	54	35.59	32	9.64	32.7	132	9	A	H
		2437	115.27	-	-	105.98	32.3	9.69	32.7	132	9	P	H
		2437	112.17	-	-	102.88	32.3	9.69	32.7	132	9	A	H
		2484.53	56.51	-17.49	74	47.29	32.17	9.75	32.7	132	9	P	H
		2483.58	44.78	-9.22	54	35.56	32.17	9.75	32.7	132	9	A	H
		2370.2	54.79	-19.21	74	45.85	32.03	9.61	32.7	118	87	P	V
		2389.8	44.41	-9.59	54	35.47	32	9.64	32.7	118	87	A	V
		2437	106.06	-	-	96.77	32.3	9.69	32.7	118	87	P	V
		2437	102.67	-	-	93.38	32.3	9.69	32.7	118	87	A	V
		2484.95	55.61	-18.39	74	46.39	32.17	9.75	32.7	118	87	P	V
		2485.79	44.67	-9.33	54	35.45	32.17	9.75	32.7	118	87	A	V



802.11b CH 11 2462MHz		2462	114.74	-	-	105.49	32.23	9.72	32.7	129	8	P	H
		2462	111.65	-	-	102.4	32.23	9.72	32.7	129	8	A	H
		2492.64	56.03	-17.97	74	46.87	32.1	9.76	32.7	129	8	P	H
		2483.52	44.99	-9.01	54	35.77	32.17	9.75	32.7	129	8	A	H
		2462	105.74	-	-	96.49	32.23	9.72	32.7	132	66	P	V
		2462	102.07	-	-	92.82	32.23	9.72	32.7	132	66	A	V
		2486.28	55.4	-18.6	74	46.18	32.17	9.75	32.7	132	66	P	V
		2486.04	44.6	-9.4	54	35.38	32.17	9.75	32.7	132	66	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	44.7	-29.3	74	50.98	33.85	12.01	52.14	-	-	P	H
		4824	44.85	-29.15	74	51.13	33.85	12.01	52.14	-	-	P	V
802.11b CH 06 2437MHz		4874	45.93	-28.07	74	52.26	33.73	12.04	52.1	-	-	P	H
		7311	48.5	-25.5	74	50.37	35.76	14.16	51.79	-	-	P	H
		4874	44.91	-29.09	74	51.24	33.73	12.04	52.1	-	-	P	V
		7311	49.31	-24.69	74	51.18	35.76	14.16	51.79	-	-	P	V
802.11b CH 11 2462MHz		4924	45.53	-28.47	74	51.82	33.7	12.07	52.06	-	-	P	H
		7386	47.3	-26.7	74	49.01	35.78	14.21	51.7	-	-	P	H
		4924	45.95	-28.05	74	52.24	33.7	12.07	52.06	-	-	P	V
		7386	47.35	-26.65	74	49.06	35.78	14.21	51.7	-	-	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. 4+6	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		2389.485	56.81	-17.19	74	47.87	32	9.64	32.7	100	35	P	H
		2389.38	46.36	-7.64	54	37.42	32	9.64	32.7	100	35	A	H
		2412	113.05	-	-	103.99	32.1	9.66	32.7	100	35	P	H
		2412	106.06	-	-	97	32.1	9.66	32.7	100	35	A	H
		2372.055	55.32	-18.68	74	46.37	32.03	9.62	32.7	367	284	P	V
		2389.38	45.45	-8.55	54	36.51	32	9.64	32.7	367	284	A	V
		2412	110.16	-	-	101.1	32.1	9.66	32.7	367	284	P	V
		2412	101.79	-	-	92.73	32.1	9.66	32.7	367	284	A	V
802.11g CH 06 2437MHz		2362.08	54.45	-19.55	74	45.48	32.07	9.6	32.7	100	36	P	H
		2372.3	44.96	-9.04	54	36.01	32.03	9.62	32.7	100	36	A	H
		2437	114.46	-	-	105.17	32.3	9.69	32.7	100	36	P	H
		2437	107.12	-	-	97.83	32.3	9.69	32.7	100	36	A	H
		2500	55.67	-18.33	74	46.5	32.1	9.77	32.7	100	36	P	H
		2488.87	45.36	-8.64	54	36.2	32.1	9.76	32.7	100	36	A	H
		2370.48	54.62	-19.38	74	45.68	32.03	9.61	32.7	367	284	P	V
		2388.12	44.87	-9.13	54	35.93	32	9.64	32.7	367	284	A	V
		2437	110.53	-	-	101.24	32.3	9.69	32.7	367	284	P	V
		2437	102.06	-	-	92.77	32.3	9.69	32.7	367	284	A	V
		2485.72	54.62	-19.38	74	45.4	32.17	9.75	32.7	367	284	P	V
		2486.77	45.2	-8.8	54	35.98	32.17	9.75	32.7	367	284	A	V



802.11g CH 11 2462MHz		2462	114.92	-	-	105.67	32.23	9.72	32.7	100	36	P	H
		2462	107.45	-	-	98.2	32.23	9.72	32.7	100	36	A	H
		2486.08	55.93	-18.07	74	46.71	32.17	9.75	32.7	100	36	P	H
		2483.56	46.04	-7.96	54	36.82	32.17	9.75	32.7	100	36	A	H
		2462	110.43	-	-	101.18	32.23	9.72	32.7	367	286	P	V
		2462	102.1	-	-	92.85	32.23	9.72	32.7	367	286	A	V
		2488.96	55.13	-18.87	74	45.97	32.1	9.76	32.7	367	286	P	V
		2487.04	45.18	-8.82	54	35.96	32.17	9.75	32.7	367	286	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	45.59	-28.41	74	51.87	33.85	12.01	52.14	-	-	P	H
		4824	44.41	-29.59	74	50.69	33.85	12.01	52.14	-	-	P	V
802.11g CH 06 2437MHz		4874	45.12	-28.88	74	51.45	33.73	12.04	52.1	-	-	P	H
		7311	47.64	-26.36	74	49.51	35.76	14.16	51.79	-	-	P	H
		4874	45.09	-28.91	74	51.42	33.73	12.04	52.1	-	-	P	V
		7311	47.2	-26.8	74	49.07	35.76	14.16	51.79	-	-	P	V
802.11g CH 11 2462MHz		4924	46.31	-27.69	74	52.6	33.7	12.07	52.06	-	-	P	H
		7386	47.54	-26.46	74	49.25	35.78	14.21	51.7	-	-	P	H
		4924	45.28	-28.72	74	51.57	33.7	12.07	52.06	-	-	P	V
		7386	47.6	-26.4	74	49.31	35.78	14.21	51.7	-	-	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. 4+6	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		2389.59	56.19	-17.81	74	47.25	32	9.64	32.7	100	35	P	H
		2389.8	46.73	-7.27	54	37.79	32	9.64	32.7	100	35	A	H
		2412	112.79	-	-	103.73	32.1	9.66	32.7	100	35	P	H
		2412	106.31	-	-	97.25	32.1	9.66	32.7	100	35	A	H
		2390	55.53	-18.47	74	46.59	32	9.64	32.7	360	288	P	V
		2389.8	44.6	-9.4	54	35.66	32	9.64	32.7	360	288	A	V
		2412	110.32	-	-	101.26	32.1	9.66	32.7	360	288	P	V
		2412	102.13	-	-	93.07	32.1	9.66	32.7	360	288	A	V
802.11n HT20 CH 06 2437MHz		2387.14	54.89	-19.11	74	45.96	32	9.63	32.7	100	37	P	H
		2389.94	44.21	-9.79	54	35.27	32	9.64	32.7	100	37	A	H
		2437	115.27	-	-	105.98	32.3	9.69	32.7	100	37	P	H
		2437	107.02	-	-	97.73	32.3	9.69	32.7	100	37	A	H
		2488.73	55.14	-18.86	74	45.98	32.1	9.76	32.7	100	37	P	H
		2484.46	44.45	-9.55	54	35.23	32.17	9.75	32.7	100	37	A	H
		2379.44	54.82	-19.18	74	45.86	32.03	9.63	32.7	360	288	P	V
		2388.68	44.04	-9.96	54	35.1	32	9.64	32.7	360	288	A	V
		2437	111	-	-	101.71	32.3	9.69	32.7	360	288	P	V
		2437	102.62	-	-	93.33	32.3	9.69	32.7	360	288	A	V
		2497.41	55.57	-18.43	74	46.4	32.1	9.77	32.7	360	288	P	V
		2483.5	44.32	-9.68	54	35.1	32.17	9.75	32.7	360	288	A	V



802.11n HT20 CH 11 2462MHz		2462	115.15	-	-	105.9	32.23	9.72	32.7	100	38	P	H
		2462	107.08	-	-	97.83	32.23	9.72	32.7	100	38	A	H
		2484.12	56.58	-17.42	74	47.36	32.17	9.75	32.7	100	38	P	H
		2483.52	46.56	-7.44	54	37.34	32.17	9.75	32.7	100	38	A	H
		2462	110.93	-	-	101.68	32.23	9.72	32.7	360	284	P	V
		2462	103.13	-	-	93.88	32.23	9.72	32.7	360	284	A	V
		2489.24	55.81	-18.19	74	46.65	32.1	9.76	32.7	360	284	P	V
		2483.52	45.18	-8.82	54	35.96	32.17	9.75	32.7	360	284	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 HT20 (Harmonic @ 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.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	45.44	-28.56	74	51.72	33.85	12.01	52.14	-	-	P	H
		4824	44.84	-29.16	74	51.12	33.85	12.01	52.14	-	-	P	V
802.11n HT20 CH 06 2437MHz		4874	45.84	-28.16	74	52.17	33.73	12.04	52.1	-	-	P	H
		7311	47.97	-26.03	74	49.84	35.76	14.16	51.79	-	-	P	H
		4874	45.53	-28.47	74	51.86	33.73	12.04	52.1	-	-	P	V
		7311	47.45	-26.55	74	49.32	35.76	14.16	51.79	-	-	P	V
802.11n HT20 CH 11 2462MHz		4924	44.92	-29.08	74	51.21	33.7	12.07	52.06	-	-	P	H
		7386	47.14	-26.86	74	48.85	35.78	14.21	51.7	-	-	P	H
		4924	45.13	-28.87	74	51.42	33.7	12.07	52.06	-	-	P	V
		7386	47.97	-26.03	74	49.68	35.78	14.21	51.7	-	-	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. 4+6	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		2387.56	57.38	-16.62	74	48.44	32	9.64	32.7	103	52	P	H
		2388.96	47.36	-6.64	54	38.42	32	9.64	32.7	103	52	A	H
		2422	111.35	-	-	102.17	32.2	9.68	32.7	103	52	P	H
		2422	102.69	-	-	93.51	32.2	9.68	32.7	103	52	A	H
		2489.43	55.62	-18.38	74	46.46	32.1	9.76	32.7	103	52	P	H
		2484.04	44.63	-9.37	54	35.41	32.17	9.75	32.7	103	52	A	H
		2389.52	55.25	-18.75	74	46.31	32	9.64	32.7	362	287	P	V
		2389.94	45.54	-8.46	54	36.6	32	9.64	32.7	362	287	A	V
		2422	106.56	-	-	97.38	32.2	9.68	32.7	362	287	P	V
		2422	99.11	-	-	89.93	32.2	9.68	32.7	362	287	A	V
		2494.82	55.78	-18.22	74	46.62	32.1	9.76	32.7	362	287	P	V
		2483.69	44.5	-9.5	54	35.28	32.17	9.75	32.7	362	287	A	V
802.11n HT40 CH 06 2437MHz		2388.96	55.71	-18.29	74	46.77	32	9.64	32.7	103	52	P	H
		2389.94	45.53	-8.47	54	36.59	32	9.64	32.7	103	52	A	H
		2437	110.19	-	-	100.9	32.3	9.69	32.7	103	52	P	H
		2437	102.56	-	-	93.27	32.3	9.69	32.7	103	52	A	H
		2489.57	55.04	-18.96	74	45.88	32.1	9.76	32.7	103	52	P	H
		2483.5	45.46	-8.54	54	36.24	32.17	9.75	32.7	103	52	A	H
		2369.78	54.87	-19.13	74	45.93	32.03	9.61	32.7	356	288	P	V
		2389.94	44.3	-9.7	54	35.36	32	9.64	32.7	356	288	A	V
		2437	107.42	-	-	98.13	32.3	9.69	32.7	356	288	P	V
		2437	99.5	-	-	90.21	32.3	9.69	32.7	356	288	A	V
		2483.97	55.09	-18.91	74	45.87	32.17	9.75	32.7	356	288	P	V
		2483.5	45.3	-8.7	54	36.08	32.17	9.75	32.7	356	288	A	V



802.11n HT40 CH 09 2452MHz		2362.78	55.54	-18.46	74	46.56	32.07	9.61	32.7	100	35	P	H
		2388.68	44.43	-9.57	54	35.49	32	9.64	32.7	100	35	A	H
		2452	111.8	-	-	102.49	32.3	9.71	32.7	100	35	P	H
		2452	103.99	-	-	94.68	32.3	9.71	32.7	100	35	A	H
		2485.16	56.7	-17.3	74	47.48	32.17	9.75	32.7	100	35	P	H
		2483.97	46.23	-7.77	54	37.01	32.17	9.75	32.7	100	35	A	H
		2347.52	55.38	-18.62	74	46.39	32.1	9.59	32.7	356	288	P	V
		2389.38	44.2	-9.8	54	35.26	32	9.64	32.7	356	288	A	V
		2452	107.84	-	-	98.53	32.3	9.71	32.7	356	288	P	V
		2452	100.26	-	-	90.95	32.3	9.71	32.7	356	288	A	V
		2484.11	55.62	-18.38	74	46.4	32.17	9.75	32.7	356	288	P	V
		2483.5	44.96	-9.04	54	35.74	32.17	9.75	32.7	356	288	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. 4+6	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		4844	46.42	-27.58	74	52.71	33.8	12.03	52.12	-	-	P	H
HT40		7266	47.47	-26.53	74	49.39	35.76	14.14	51.82	-	-	P	H
CH 03		4844	45.97	-28.03	74	52.26	33.8	12.03	52.12	-	-	P	V
2422MHz		7266	47.34	-26.66	74	49.26	35.76	14.14	51.82	-	-	P	V
802.11n		4874	45.37	-28.63	74	51.7	33.73	12.04	52.1	-	-	P	H
HT40		7311	47.77	-26.23	74	49.64	35.76	14.16	51.79	-	-	P	H
CH 06		4874	45.05	-28.95	74	51.38	33.73	12.04	52.1	-	-	P	V
2437MHz		7311	47.89	-26.11	74	49.76	35.76	14.16	51.79	-	-	P	V
802.11n		4904	46.03	-27.97	74	52.34	33.7	12.06	52.07	-	-	P	H
HT40		7356	47.26	-26.74	74	49.04	35.77	14.19	51.74	-	-	P	H
CH 09		4904	45.27	-28.73	74	51.58	33.7	12.06	52.07	-	-	P	V
2452MHz		7356	47.3	-26.7	74	49.08	35.77	14.19	51.74	-	-	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 RU (Band Edge @ 3m)

WIFI Ant. 4+6	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		2389.59	57.18	-16.82	74	48.24	32	9.64	32.7	100	36	P	H
		2389.695	45.42	-8.58	54	36.48	32	9.64	32.7	100	36	A	H
		2412	112.97	-	-	103.91	32.1	9.66	32.7	100	36	P	H
		2412	106.29	-	-	97.23	32.1	9.66	32.7	100	36	A	H
		2372.37	55.37	-18.63	74	46.42	32.03	9.62	32.7	369	284	P	V
		2389.8	45.79	-8.21	54	36.85	32	9.64	32.7	369	284	A	V
		2412	112.71	-	-	103.65	32.1	9.66	32.7	369	284	P	V
		2412	102.91	-	-	93.85	32.1	9.66	32.7	369	284	A	V
802.11ax HE20 Full CH 06 2437MHz		2346.4	54.82	-19.18	74	45.83	32.1	9.59	32.7	100	36	P	H
		2389.94	44.36	-9.64	54	35.42	32	9.64	32.7	100	36	A	H
		2437	114.19	-	-	104.9	32.3	9.69	32.7	100	36	P	H
		2437	106.84	-	-	97.55	32.3	9.69	32.7	100	36	A	H
		2484.46	55.16	-18.84	74	45.94	32.17	9.75	32.7	100	36	P	H
		2483.5	44.67	-9.33	54	35.45	32.17	9.75	32.7	100	36	A	H
		2386.58	55.39	-18.61	74	46.46	32	9.63	32.7	369	284	P	V
		2389.66	44.24	-9.76	54	35.3	32	9.64	32.7	369	284	A	V
		2437	110.37	-	-	101.08	32.3	9.69	32.7	369	284	P	V
		2437	102.52	-	-	93.23	32.3	9.69	32.7	369	284	A	V
		2487.4	54.86	-19.14	74	45.64	32.17	9.75	32.7	369	284	P	V
		2491.39	44.57	-9.43	54	35.41	32.1	9.76	32.7	369	284	A	V



WIFI Ant. 4+6	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)
8802.11ax HE20 Full CH 11 2462MHz		2462	115.34	-	-	106.09	32.23	9.72	32.7	100	36	P	H
		2462	107.08	-	-	97.83	32.23	9.72	32.7	100	36	A	H
		2484	56.36	-17.64	74	47.14	32.17	9.75	32.7	100	36	P	H
		2484.16	46.14	-7.86	54	36.92	32.17	9.75	32.7	100	36	A	H
		2462	111.52	-	-	102.27	32.23	9.72	32.7	366	288	P	V
		2462	102.72	-	-	93.47	32.23	9.72	32.7	366	288	A	V
		2486.32	55.26	-18.74	74	46.04	32.17	9.75	32.7	366	288	P	V
		2483.52	45.19	-8.81	54	35.97	32.17	9.75	32.7	366	288	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 RU (Harmonic @ 3m)

WIFI Ant. 4+6	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		4824	44.95	-29.05	74	51.23	33.85	12.01	52.14	-	-	P	H
		4824	45.76	-28.24	74	52.04	33.85	12.01	52.14	-	-	P	V
802.11ax HE20 Full CH 06 2437MHz		4874	46.06	-27.94	74	52.39	33.73	12.04	52.1	-	-	P	H
		7311	47.87	-26.13	74	49.74	35.76	14.16	51.79	-	-	P	H
		4874	45.81	-28.19	74	52.14	33.73	12.04	52.1	-	-	P	V
		7311	47.64	-26.36	74	49.51	35.76	14.16	51.79	-	-	P	V
802.11ax HE20 Full CH 11 2462MHz		4924	45.51	-28.49	74	51.8	33.7	12.07	52.06	-	-	P	H
		7386	47.71	-26.29	74	49.42	35.78	14.21	51.7	-	-	P	H
		4924	45.72	-28.28	74	52.01	33.7	12.07	52.06	-	-	P	V
		7386	47.35	-26.65	74	49.06	35.78	14.21	51.7	-	-	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 HE40 Full RU (Band Edge @ 3m)

WIFI Ant. 4+6	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		2389.66	58.22	-15.78	74	49.28	32	9.64	32.7	130	31	P	H
		2388.12	46.17	-7.83	54	37.23	32	9.64	32.7	130	31	A	H
		2422	112.12	-	-	102.94	32.2	9.68	32.7	130	31	P	H
		2422	104.19	-	-	95.01	32.2	9.68	32.7	130	31	A	H
		2485.37	55.86	-18.14	74	46.64	32.17	9.75	32.7	130	31	P	H
		2483.62	44.53	-9.47	54	35.31	32.17	9.75	32.7	130	31	A	H
		2373	54.84	-19.16	74	45.89	32.03	9.62	32.7	126	36	P	V
		2389.94	44.72	-9.28	54	35.78	32	9.64	32.7	126	36	A	V
		2422	101.93	-	-	92.75	32.2	9.68	32.7	126	36	P	V
		2422	94.88	-	-	85.7	32.2	9.68	32.7	126	36	A	V
		2492.44	55.4	-18.6	74	46.24	32.1	9.76	32.7	126	36	P	V
		2489.78	44.37	-9.63	54	35.21	32.1	9.76	32.7	126	36	A	V
802.11ax HE40 Full CH 06 2437MHz		2313.78	55.12	-18.88	74	46.37	31.9	9.55	32.7	132	29	P	H
		2389.94	46.01	-7.99	54	37.07	32	9.64	32.7	132	29	A	H
		2437	112.94	-	-	103.65	32.3	9.69	32.7	132	29	P	H
		2437	103.68	-	-	94.39	32.3	9.69	32.7	132	29	A	H
		2483.58	55.62	-18.38	74	46.4	32.17	9.75	32.7	132	29	P	H
		2483.58	45.61	-8.39	54	36.39	32.17	9.75	32.7	132	29	A	H
		2347.1	54.97	-19.03	74	45.98	32.1	9.59	32.7	117	52	P	V
		2389.8	44.07	-9.93	54	35.13	32	9.64	32.7	117	52	A	V
		2437	104.52	-	-	95.23	32.3	9.69	32.7	117	52	P	V
		2437	96.47	-	-	87.18	32.3	9.69	32.7	117	52	A	V
		2491.18	54.23	-19.77	74	45.07	32.1	9.76	32.7	117	52	P	V
		2483.76	44.37	-9.63	54	35.15	32.17	9.75	32.7	117	52	A	V



WIFI Ant. 4+6	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 09 2452MHz		2313.22	55.09	-18.91	74	46.34	31.9	9.55	32.7	128	29	P	H
		2389.94	44.23	-9.77	54	35.29	32	9.64	32.7	128	29	A	H
		2452	-	-	74	102.04	32.3	9.71	32.7	128	29	P	H
		2452	-	-	54	94.43	32.3	9.71	32.7	128	29	A	H
		2485.09	55.9	-18.1	74	46.68	32.17	9.75	32.7	128	29	P	H
		2485.3	45.56	-8.44	54	36.34	32.17	9.75	32.7	128	29	A	H
		2380.28	54.74	-19.26	74	45.78	32.03	9.63	32.7	143	52	P	V
		2389.66	43.95	-10.05	54	35.01	32	9.64	32.7	143	52	A	V
		2452	-	-	74	94.15	32.3	9.71	32.7	143	52	P	V
		2452	-	-	54	86.03	32.3	9.71	32.7	143	52	A	V
		2485.44	55.1	-18.9	74	45.88	32.17	9.75	32.7	143	52	P	V
		2483.55	44.27	-9.73	54	35.05	32.17	9.75	32.7	143	52	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 RU (Harmonic @ 3m)

WIFI Ant. 4+6	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		4844	45.46	-28.54	74	51.75	33.8	12.03	52.12	-	-	P	H
HE40 Full		7266	47.4	-26.6	74	49.32	35.76	14.14	51.82	-	-	P	H
CH 03		4844	45.7	-28.3	74	51.99	33.8	12.03	52.12	-	-	P	V
2422MHz		7266	47.79	-26.21	74	49.71	35.76	14.14	51.82	-	-	P	V
802.11ax		4874	45.94	-28.06	74	52.27	33.73	12.04	52.1	-	-	P	H
HE40 Full		7311	47.1	-26.9	74	48.97	35.76	14.16	51.79	-	-	P	H
CH 06		4874	45.7	-28.3	74	52.03	33.73	12.04	52.1	-	-	P	V
2437MHz		7311	47.78	-26.22	74	49.65	35.76	14.16	51.79	-	-	P	V
802.11ax		4904	45.62	-28.38	74	51.93	33.7	12.06	52.07	-	-	P	H
HE40 Full		7356	47.48	-26.52	74	49.26	35.77	14.19	51.74	-	-	P	H
CH 09		4904	46.16	-27.84	74	52.47	33.7	12.06	52.07	-	-	P	V
2452MHz		7356	46.99	-27.01	74	48.77	35.77	14.19	51.74	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<802.11ax Partial RU Verify>

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Partial RU (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.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Partial RU 106/53 CH 01 2412MHz		2319.87	54.97	-19.03	74	46.12	32	9.55	32.7	100	42	P	H
		2389.485	44.39	-9.61	54	35.45	32	9.64	32.7	100	42	A	H
		2412	112.5	-	-	103.44	32.1	9.66	32.7	100	42	P	H
		2412	104.78	-	-	95.72	32.1	9.66	32.7	100	42	A	H
		2373	55.65	-18.35	74	46.7	32.03	9.62	32.7	360	128	P	V
		2388.96	44.46	-9.54	54	35.52	32	9.64	32.7	360	128	A	V
		2412	108.71	-	-	99.65	32.1	9.66	32.7	360	128	P	V
		2412	101.5	-	-	92.44	32.1	9.66	32.7	360	128	A	V
8802.11ax HE20 Partial RU 106/54 CH 11 2462MHz		2462	114.51	-	-	105.26	32.23	9.72	32.7	100	42	P	H
		2462	105.11	-	-	95.86	32.23	9.72	32.7	100	42	A	H
		2483.72	59.24	-14.76	74	50.02	32.17	9.75	32.7	100	42	P	H
		2483.96	44.76	-9.24	54	35.54	32.17	9.75	32.7	100	42	A	H
		2462	107.47	-	-	98.22	32.23	9.72	32.7	360	128	P	V
		2462	102.12	-	-	92.87	32.23	9.72	32.7	360	128	A	V
		2486.52	55.15	-18.85	74	45.93	32.17	9.75	32.7	360	128	P	V
		2488.64	44.5	-9.5	54	35.34	32.1	9.76	32.7	360	128	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 Partial RU (Harmonic @ 3m)

WIFI Ant. 4+6	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 RU 106/53		4824	45.63	-28.37	74	51.91	33.85	12.01	52.14	-	-	P	H
		4824	44.41	-29.59	74	50.69	33.85	12.01	52.14	-	-	P	V
802.11ax HE20 Partial RU 106/54 CH 11 2462MHz		4924	44.97	-29.03	74	51.26	33.7	12.07	52.06	-	-	P	H
		7386	47.68	-26.32	74	49.39	35.78	14.21	51.7	-	-	P	H
		4924	44.75	-29.25	74	51.04	33.7	12.07	52.06	-	-	P	V
		7386	47.6	-26.4	74	49.31	35.78	14.21	51.7	-	-	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 HE40 Partial RU (Band Edge @ 3m)

WIFI Ant. 4+6	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 RU 242/61 CH 03 2422MHz		2388.4	61.14	-12.86	74	52.2	32	9.64	32.7	100	42	P	H
		2388.12	45.38	-8.62	54	36.44	32	9.64	32.7	100	42	A	H
		2422	112.81	-	-	103.63	32.2	9.68	32.7	100	42	P	H
		2422	105.43	-	-	96.25	32.2	9.68	32.7	100	42	A	H
		2485.72	55.21	-18.79	74	45.99	32.17	9.75	32.7	100	42	P	H
		2483.55	44.6	-9.4	54	35.38	32.17	9.75	32.7	100	42	A	H
		2388.12	66.92	-7.08	74	57.98	32	9.64	32.7	360	20	P	V
		2389.94	46.45	-7.55	54	37.51	32	9.64	32.7	360	20	A	V
		2422	111.98	-	-	102.8	32.2	9.68	32.7	360	20	P	V
		2422	104.89	-	-	95.71	32.2	9.68	32.7	360	20	A	V
		2489.99	55.12	-18.88	74	45.96	32.1	9.76	32.7	360	20	P	V
		2483.9	44.45	-9.55	54	35.23	32.17	9.75	32.7	360	20	A	V
802.11ax HE40 Partial RU 242/62 CH 09 2452MHz		2349.76	55.52	-18.48	74	46.53	32.1	9.59	32.7	100	31	P	H
		2389.66	44.47	-9.53	54	35.53	32	9.64	32.7	100	31	A	H
		2452	111.43	-	-	102.18	32.23	9.72	32.7	100	31	P	H
		2452	104.49	-	-	95.25	32.23	9.71	32.7	100	31	A	H
		2483.83	67.95	-6.05	74	58.73	32.17	9.75	32.7	100	31	P	H
		2483.5	46.72	-7.28	54	37.5	32.17	9.75	32.7	100	31	A	H
		2325.68	54.79	-19.21	74	45.93	32	9.56	32.7	360	128	P	V
		2389.52	44.12	-9.88	54	35.18	32	9.64	32.7	360	128	A	V
		2452	103.38	-	-	94.07	32.3	9.71	32.7	360	128	P	V
		2452	96.56	-	-	87.25	32.3	9.71	32.7	360	128	A	V
		2483.62	59.31	-14.69	74	50.09	32.17	9.75	32.7	360	128	P	V
		2484.6	44.69	-9.31	54	35.47	32.17	9.75	32.7	360	128	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 Partial RU (Harmonic @ 3m)

WIFI Ant. 4+6	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 RU 242/61 CH 03 2422MHz		4844	44.68	-29.32	74	50.97	33.8	12.03	52.12	-	-	P	H
		7266	47.72	-26.28	74	49.64	35.76	14.14	51.82	-	-	P	H
		4844	45.49	-28.51	74	51.78	33.8	12.03	52.12	-	-	P	V
		7266	47.22	-26.78	74	49.14	35.76	14.14	51.82	-	-	P	V
802.11ax HE40 Partial RU 242/62 CH 09 2452MHz		4904	47.04	-26.96	74	53.35	33.7	12.06	52.07	-	-	P	H
		7356	47.68	-26.32	74	49.46	35.77	14.19	51.74	-	-	P	H
		4904	46.27	-27.73	74	52.58	33.7	12.06	52.07	-	-	P	V
		7356	47.47	-26.53	74	49.25	35.77	14.19	51.74	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<Simultaneous transmission>

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz + LTE Band48	*	2389.66	56.86	-17.14	74	47.92	32	9.64	32.7	251	35	P	H
	*	2389.94	47.28	-6.72	54	38.34	32	9.64	32.7	251	35	A	H
		2422	110.47	-	-	101.29	32.2	9.68	32.7	251	35	P	H
		2422	102.18	-	-	93	32.2	9.68	32.7	251	35	A	H
		2496.85	55.22	-18.78	74	46.05	32.1	9.77	32.7	251	35	P	H
		2483.76	44.49	-9.51	54	35.27	32.17	9.75	32.7	251	35	A	H
	*	2388.82	55.71	-18.29	74	46.77	32	9.64	32.7	243	300	P	V
	*	2388.4	44.93	-9.07	54	35.99	32	9.64	32.7	243	300	A	V
		2422	109.08	-	-	99.9	32.2	9.68	32.7	243	300	P	V
		2422	101.02	-	-	91.84	32.2	9.68	32.7	243	300	A	V
		2491.95	54.93	-19.07	74	45.77	32.1	9.76	32.7	243	300	P	V
		2483.76	44.5	-9.5	54	35.28	32.17	9.75	32.7	243	300	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. 4+6	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz + LTE Band48		4844	46.12	-27.88	74	52.41	33.8	12.03	52.12	-	-	P	H
		7266	47.88	-26.12	74	49.8	35.76	14.14	51.82	-	-	P	H
		7332	47.54	-26.46	74	49.36	35.77	14.18	51.77	-	-	P	H
		10998	47.16	-26.84	74	44.27	37.8	16.49	51.4	-	-	P	H
		14664	47.78	-26.22	74	43.58	39.26	17.34	52.4	-	-	P	H
		4844	46.03	-27.97	74	52.32	33.8	12.03	52.12	-	-	P	V
		7266	47.44	-26.56	74	49.36	35.76	14.14	51.82	-	-	P	V
		7332	46.84	-27.16	74	48.66	35.77	14.18	51.77	-	-	P	V
		10998	47.45	-26.55	74	44.56	37.8	16.49	51.4	-	-	P	V
		14664	47.8	-26.2	74	43.6	39.26	17.34	52.4	-	-	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												


Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		67.83	29.62	-10.38	40	47.59	12.12	1.51	31.6	-	-	P	H
		167.74	29.91	-13.59	43.5	43.04	15.88	2.35	31.36	-	-	P	H
		273.47	31.89	-14.11	46	41.59	18.88	2.98	31.56	-	-	P	H
		563.5	28.98	-17.02	46	30.85	25.24	4.28	31.39	-	-	P	H
		838.98	32.54	-13.46	46	32.33	26.39	5.2	31.38	-	-	P	H
		963.14	33.56	-20.44	54	31.87	27.37	5.6	31.28	-	-	P	H
		67.83	25.46	-14.54	40	43.43	12.12	1.51	31.6	-	-	P	V
		156.1	27.99	-15.51	43.5	40.79	16.32	2.27	31.39	-	-	P	V
		272.5	28.67	-17.33	46	38.37	18.88	2.98	31.56	-	-	P	V
		559.62	31.23	-14.77	46	33.06	25.26	4.26	31.35	-	-	P	V
		760.41	30.97	-15.03	46	30.98	26.18	4.96	31.15	-	-	P	V
		963.14	33.66	-20.34	54	31.97	27.37	5.6	31.28	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



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	P eak or A verage
H/V	H orizontal or V ertical



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.	
4+6		(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)

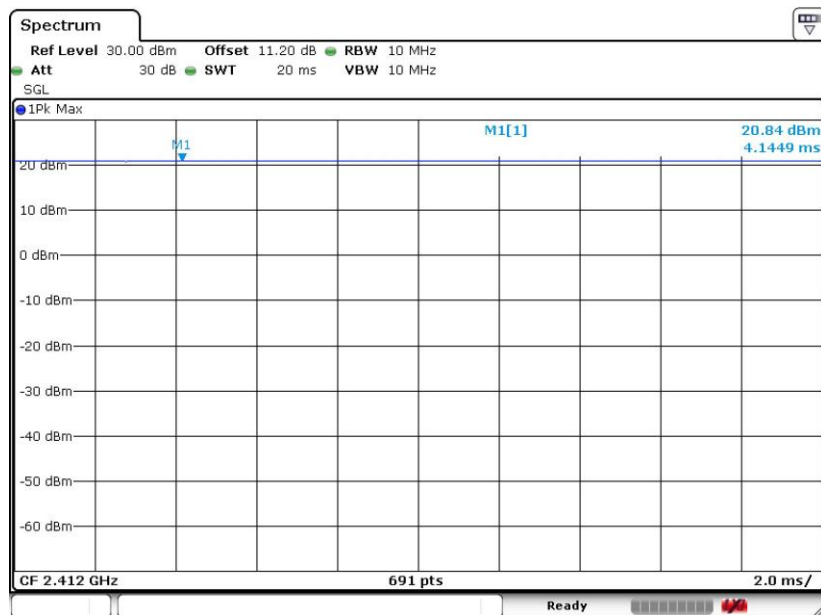
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	99.32	-	-	10Hz
802.11n HT20	100	-	-	10Hz
802.11n HT40	100	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz

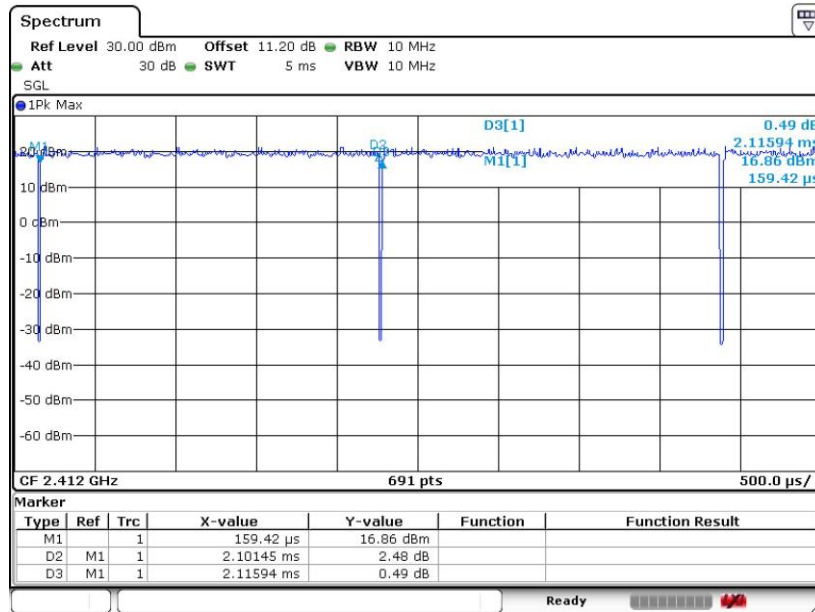
802.11b



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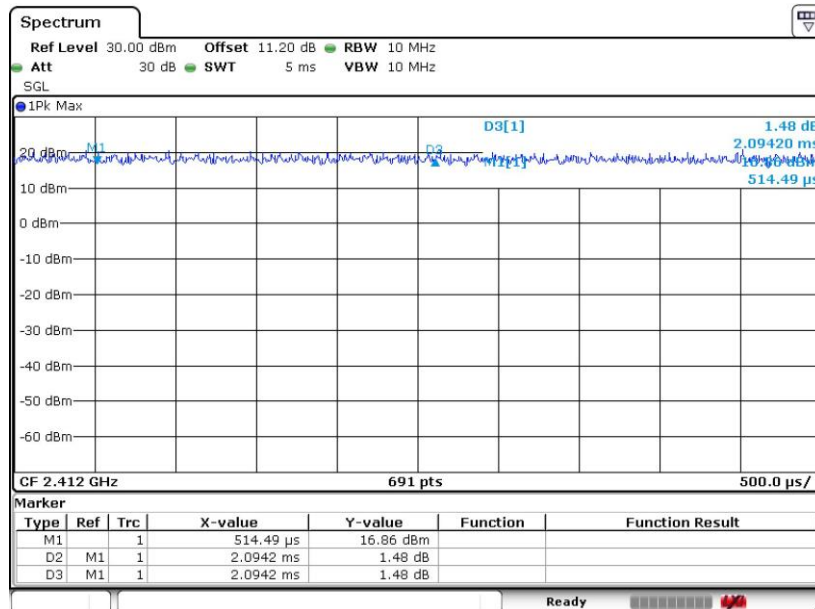


802.11g



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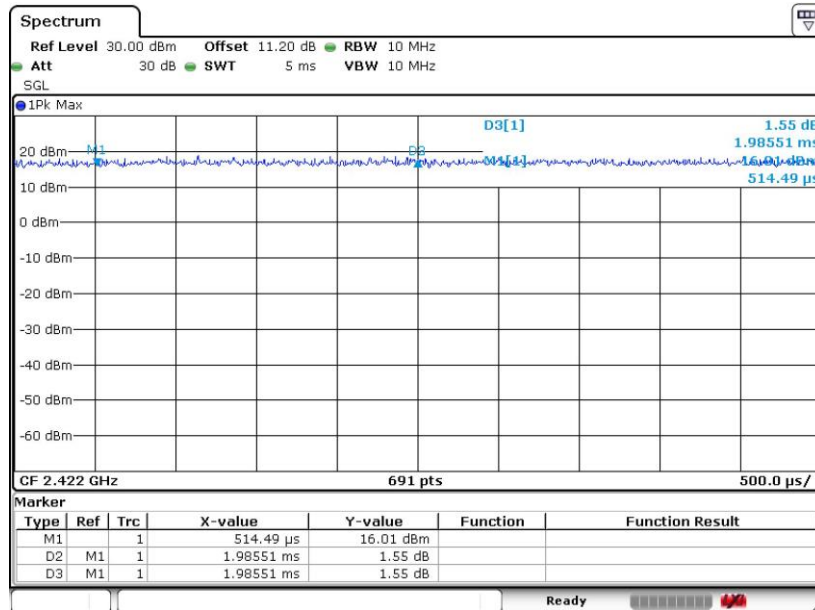
802.11n HT20



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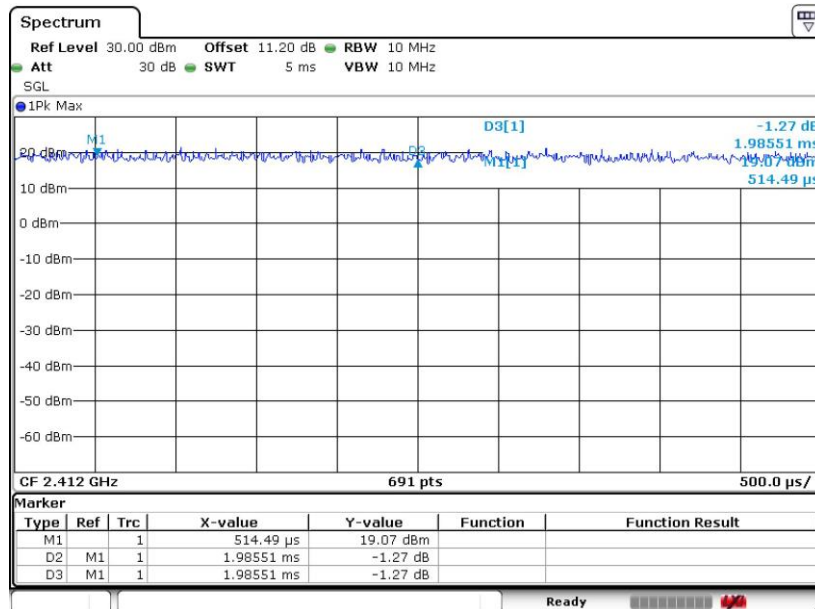


802.11n HT40



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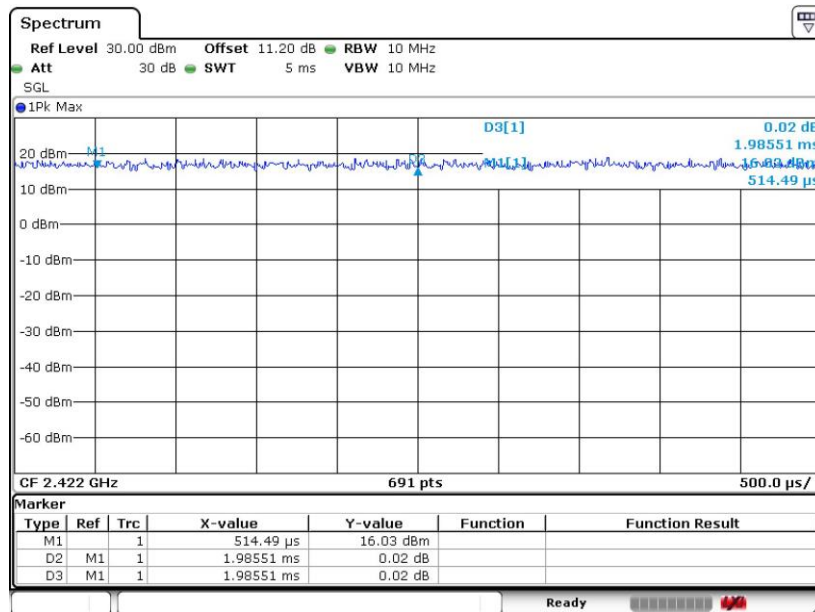
802.11ax HE20



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802.11ax HE40



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