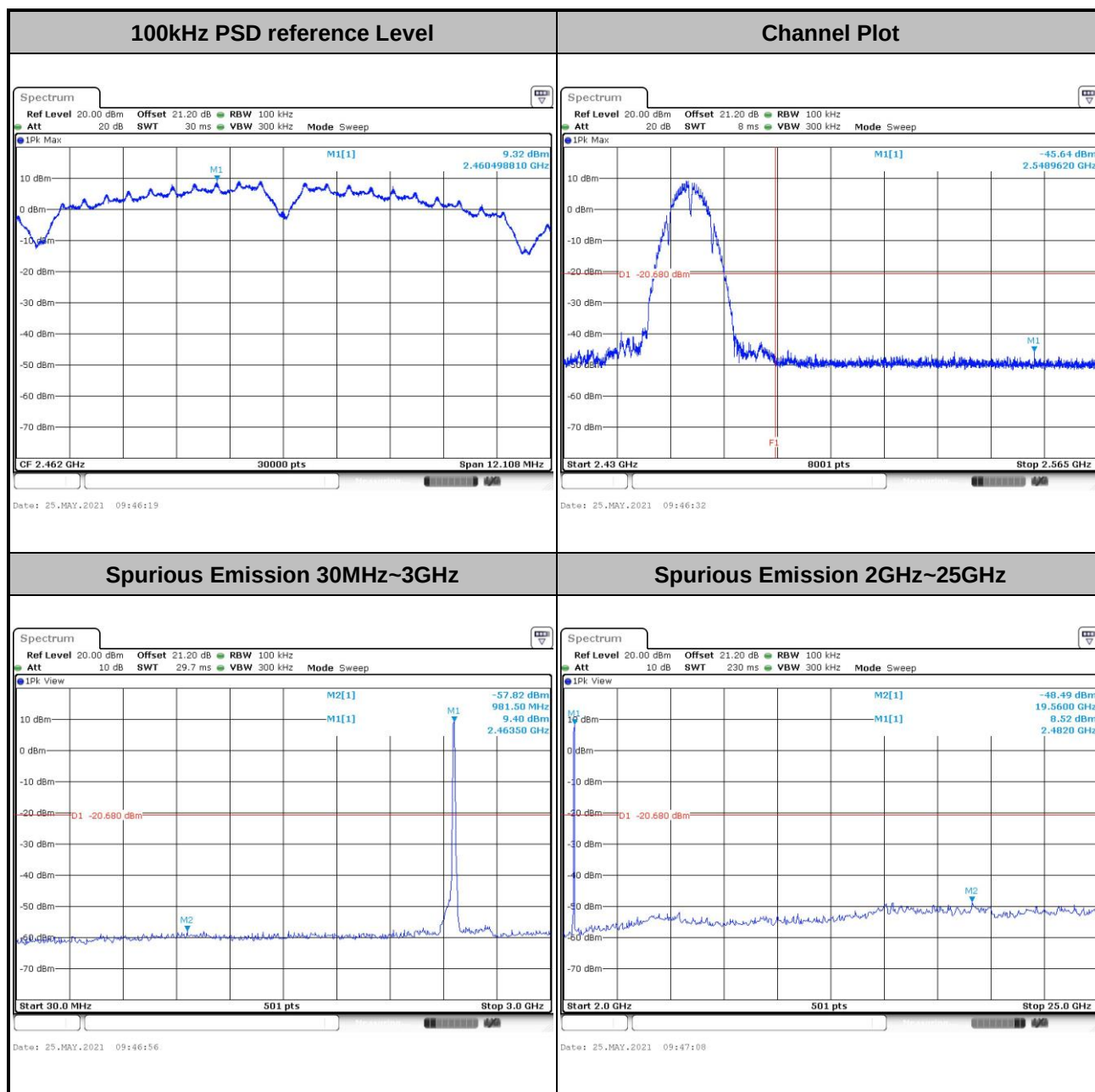




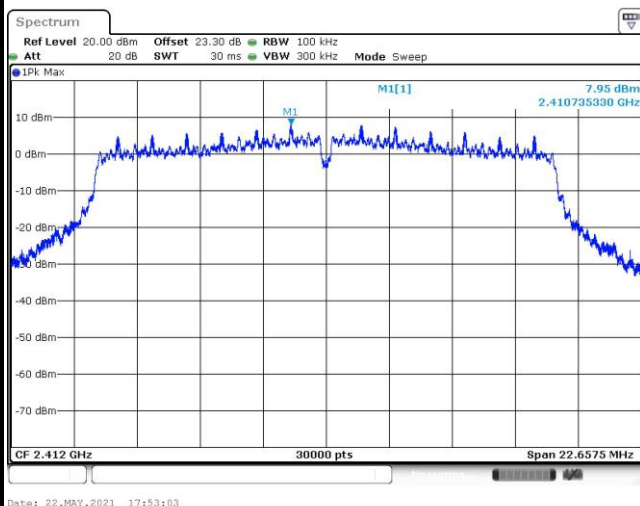
Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----



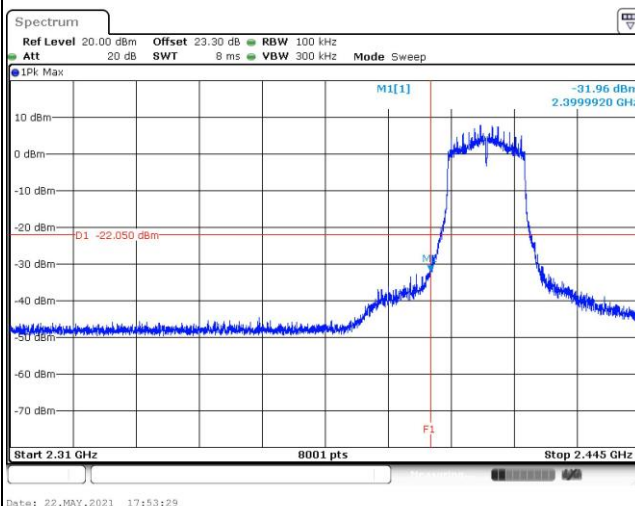


Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----

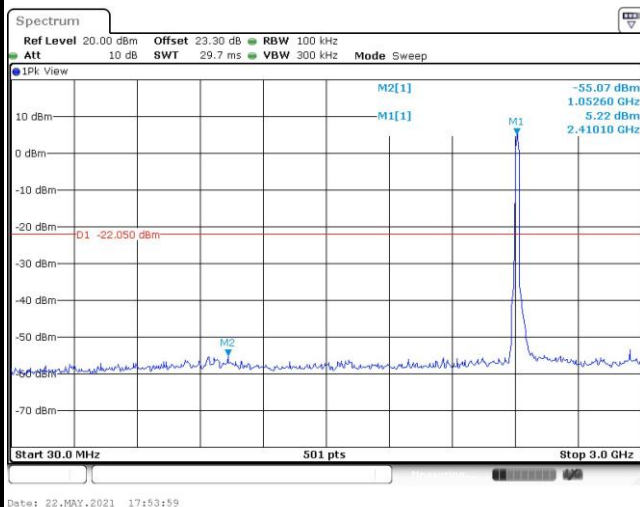
100kHz PSD reference Level



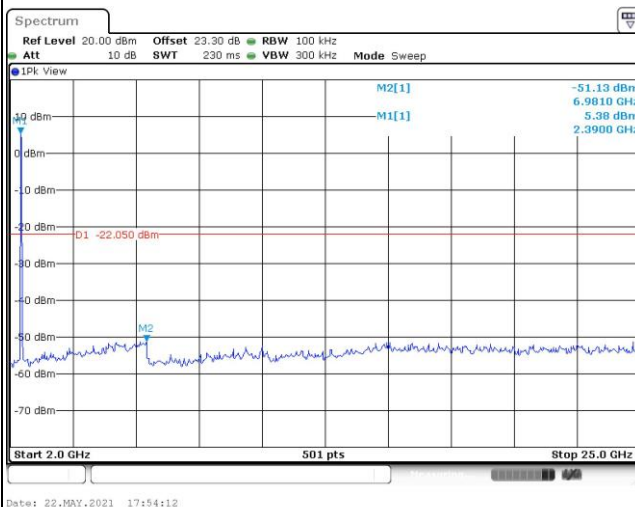
Channel Plot



Spurious Emission 30MHz~3GHz



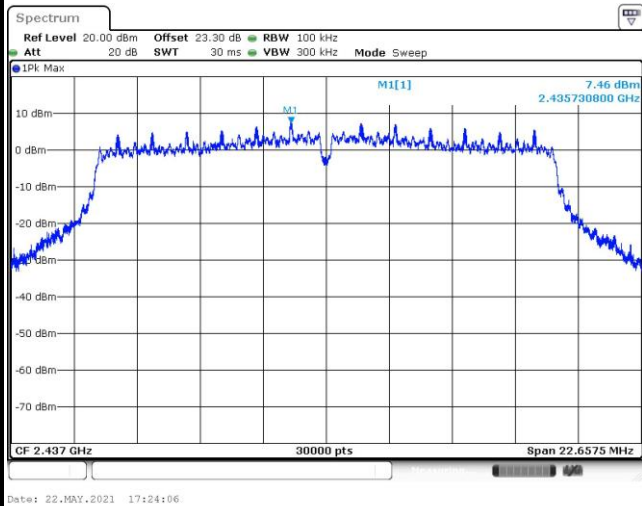
Spurious Emission 2GHz~25GHz





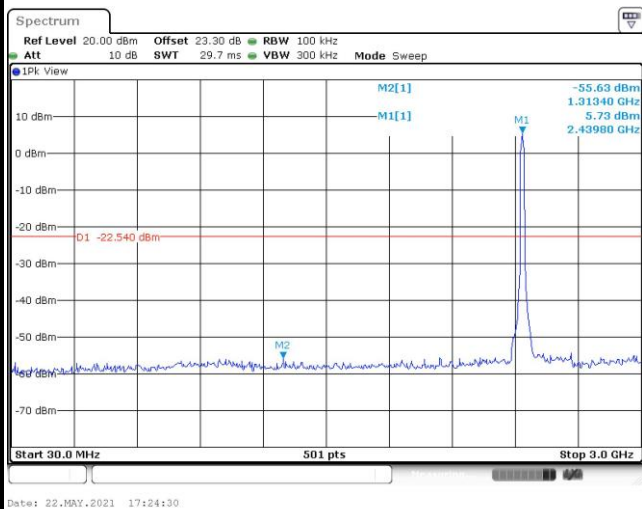
Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level

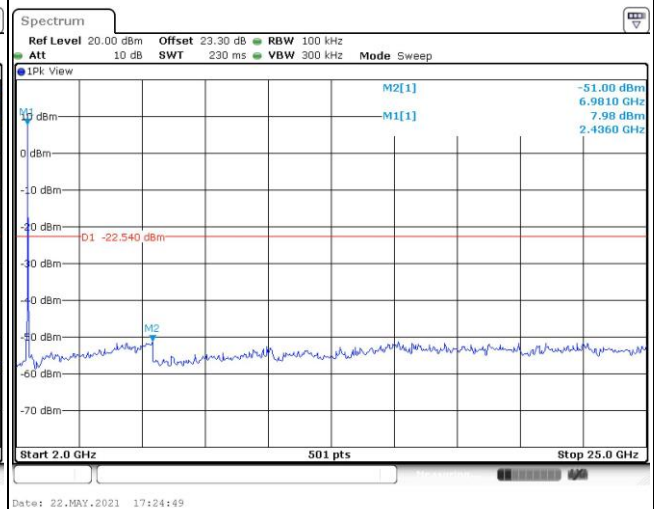


Channel Plot

Spurious Emission 30MHz~3GHz

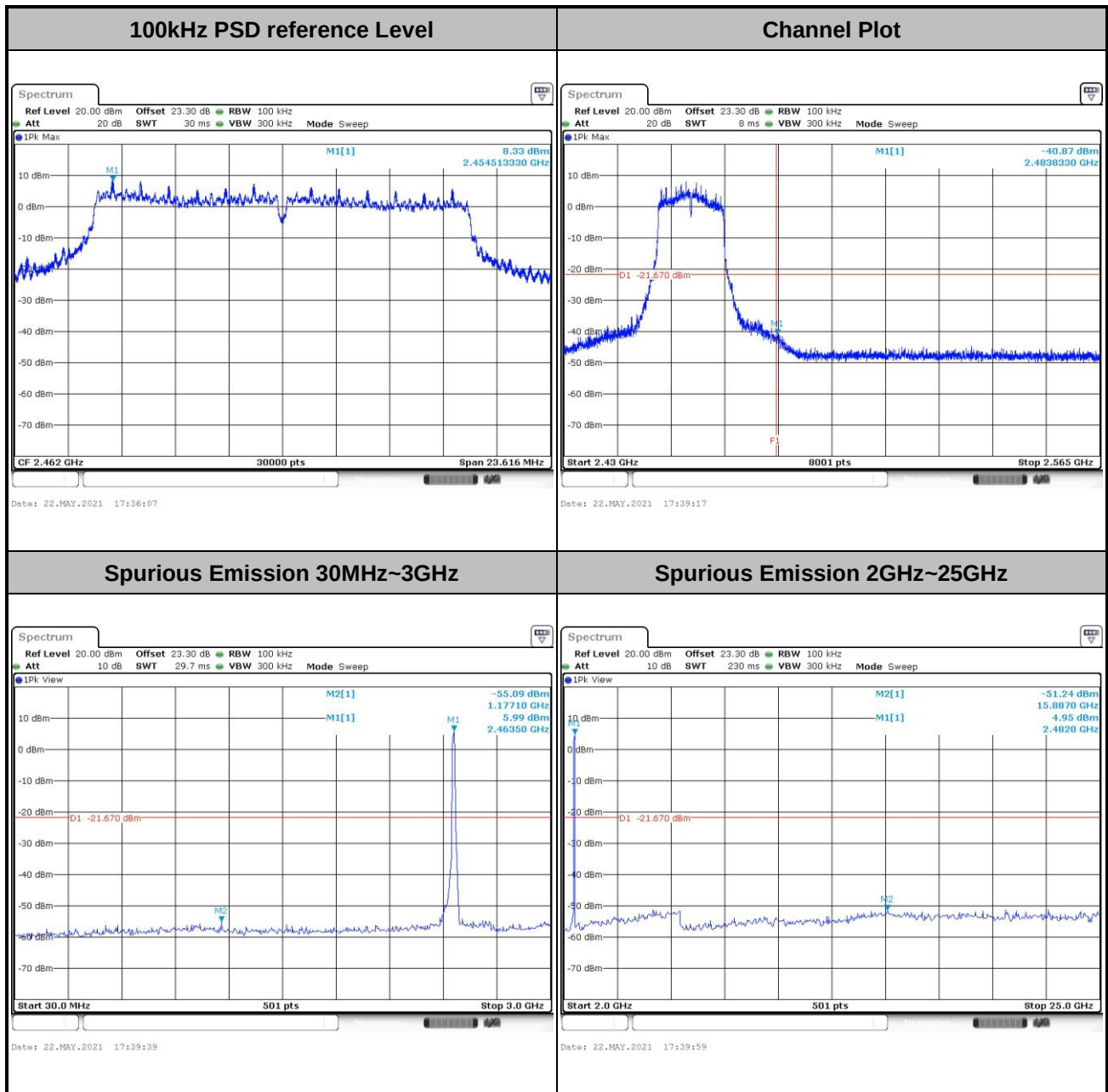


Spurious Emission 2GHz~25GHz





Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----

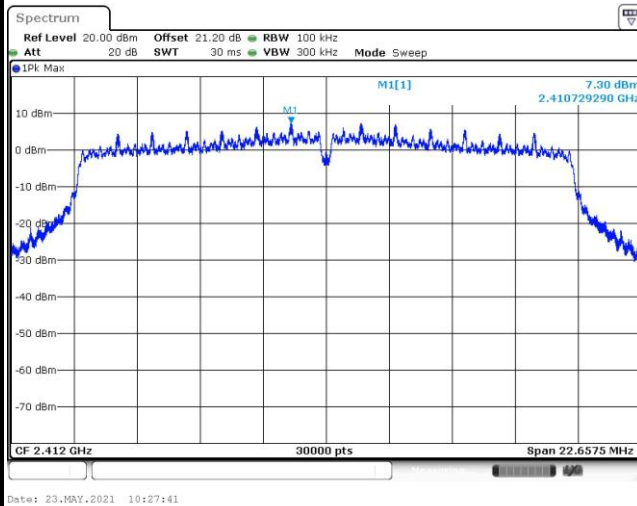




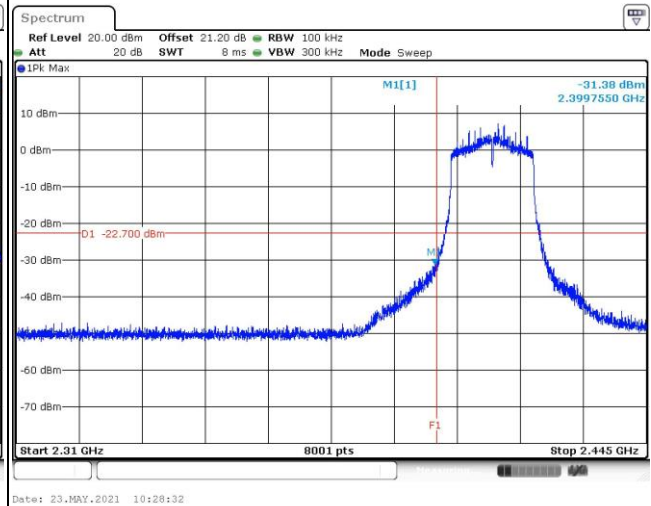
Test Mode : 802.11n HT20

Test Channel : 01

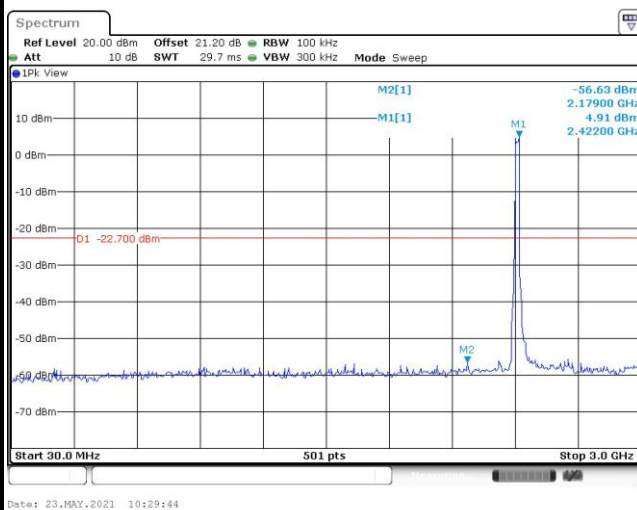
100kHz PSD reference Level



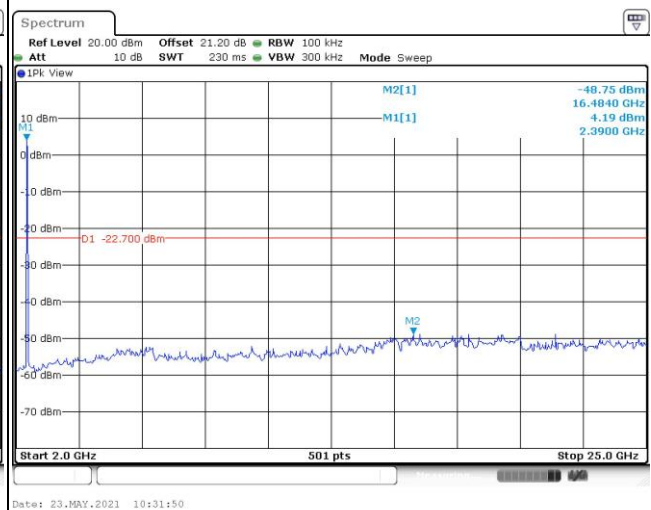
Channel Plot

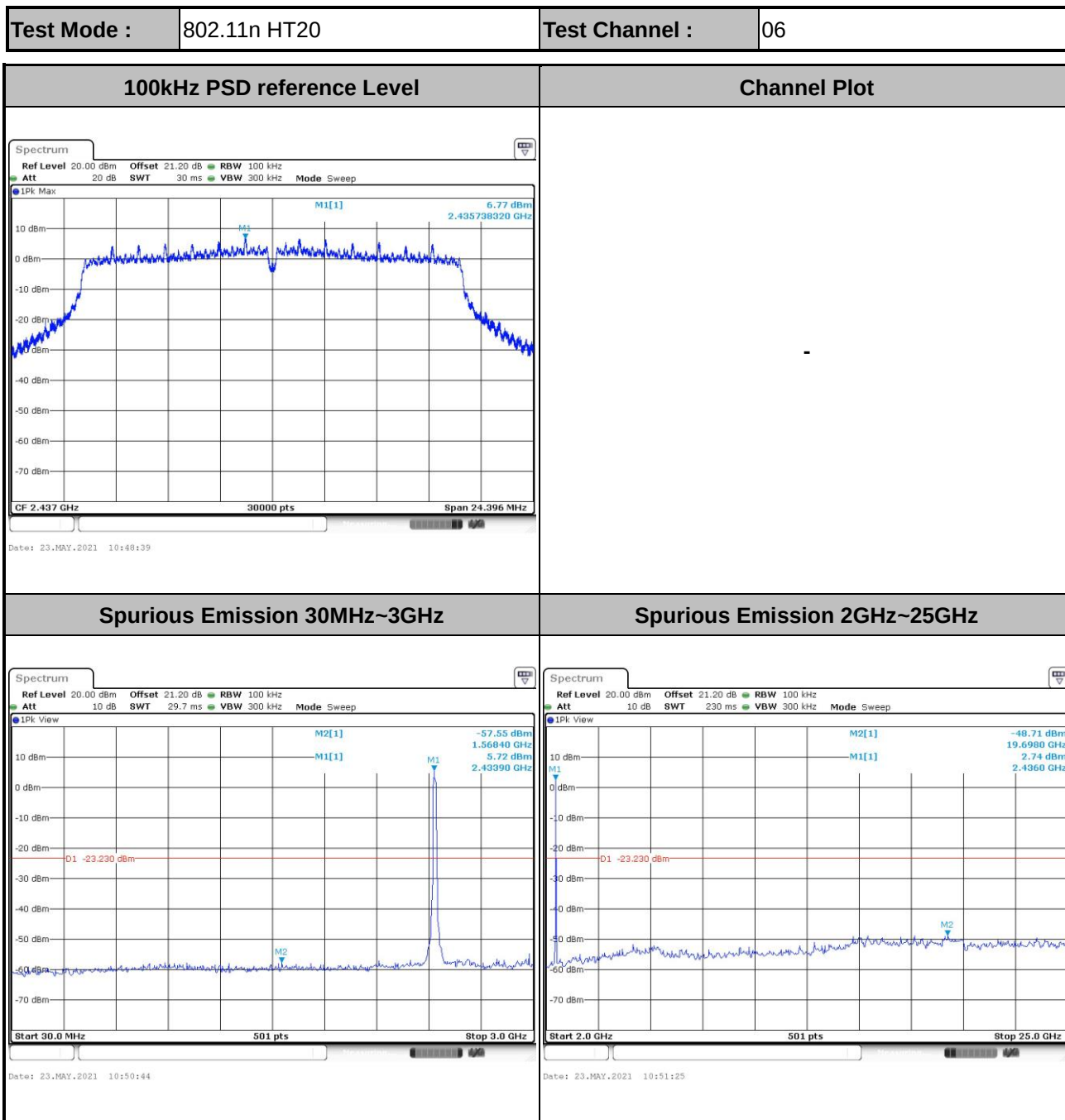


Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz



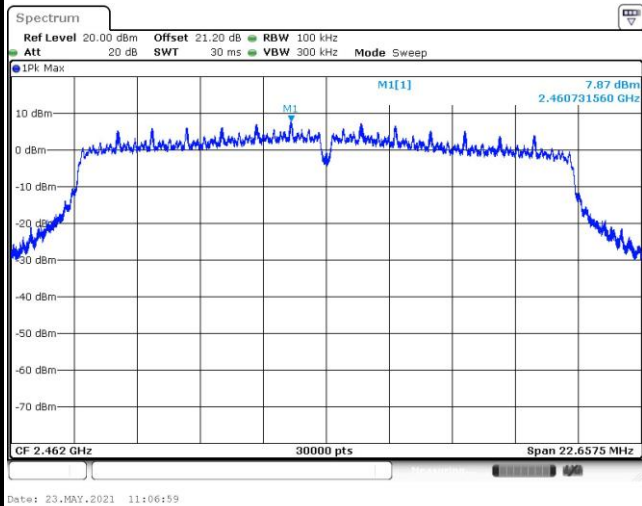




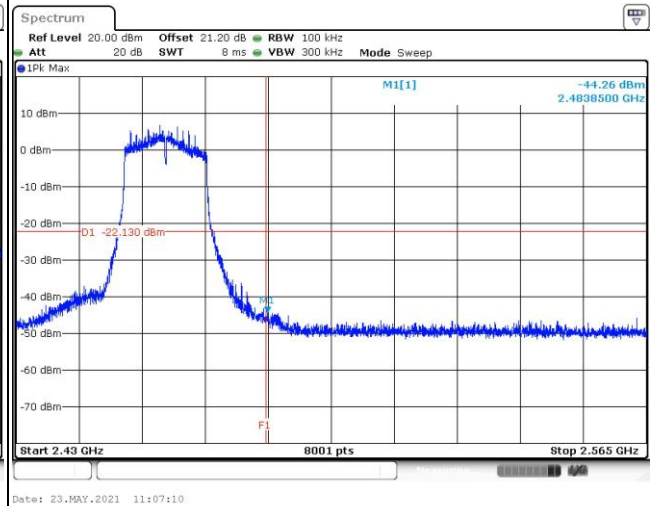
Test Mode : 802.11n HT20

Test Channel : 11

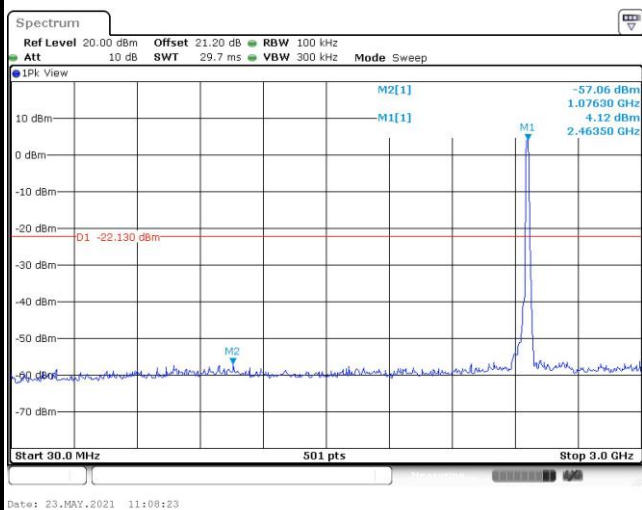
100kHz PSD reference Level



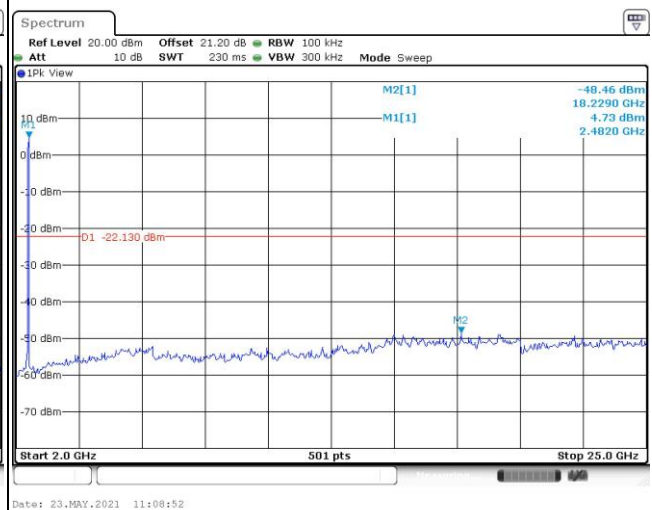
Channel Plot

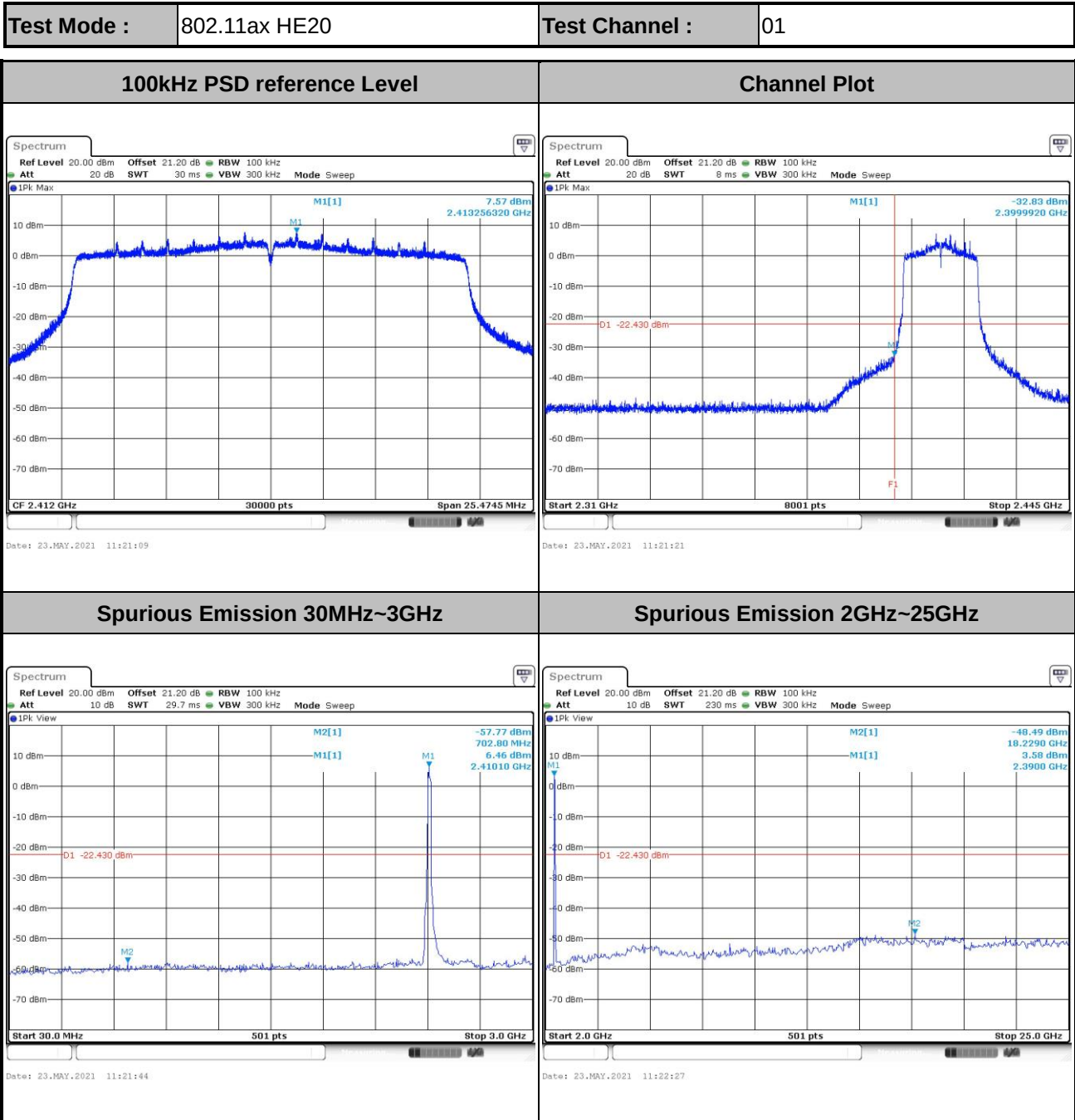


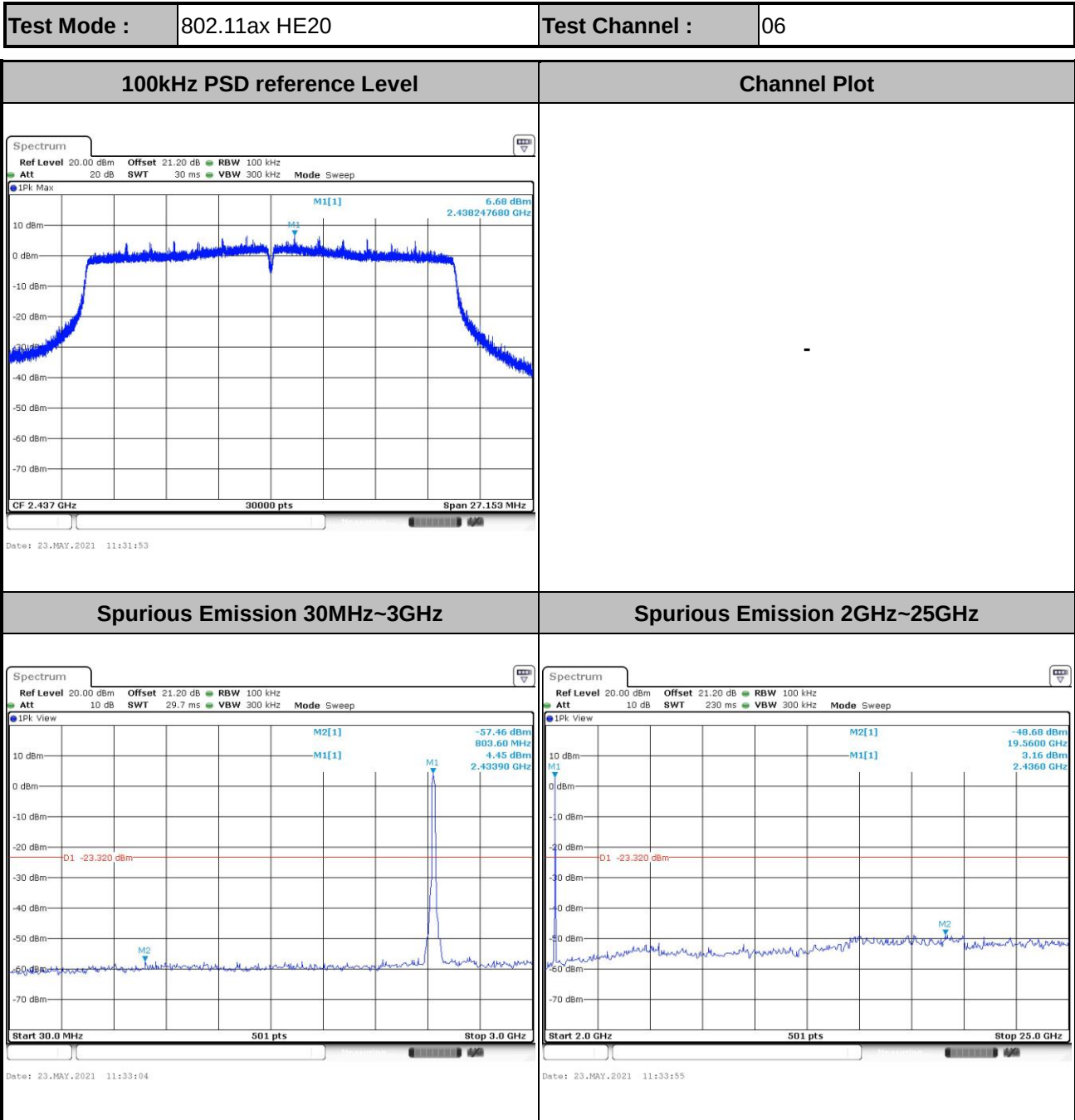
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz





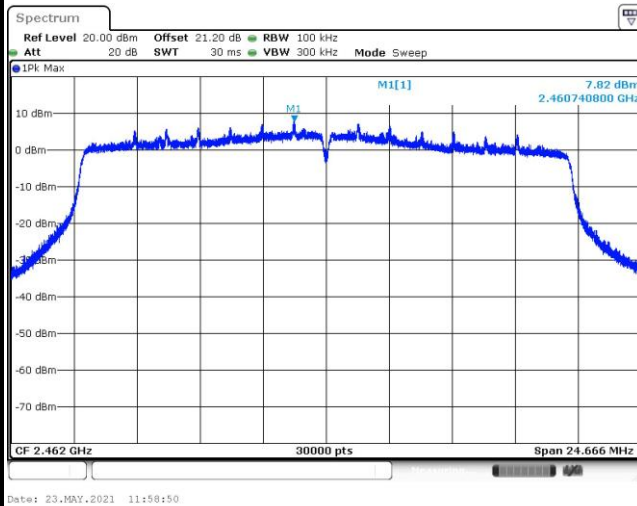




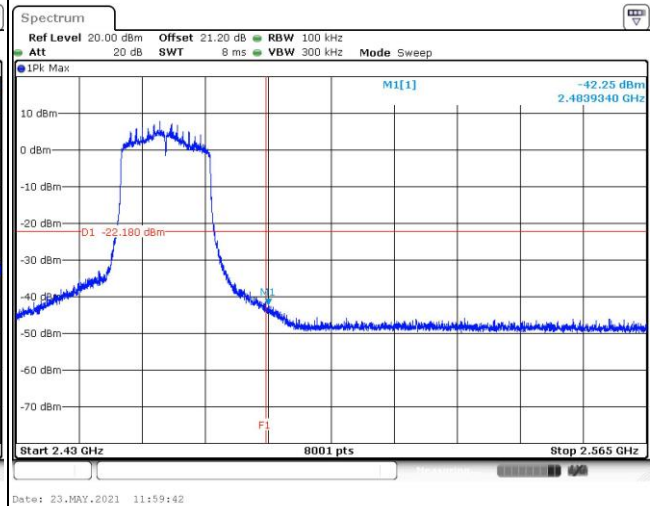
Test Mode : 802.11ax HE20

Test Channel : 11

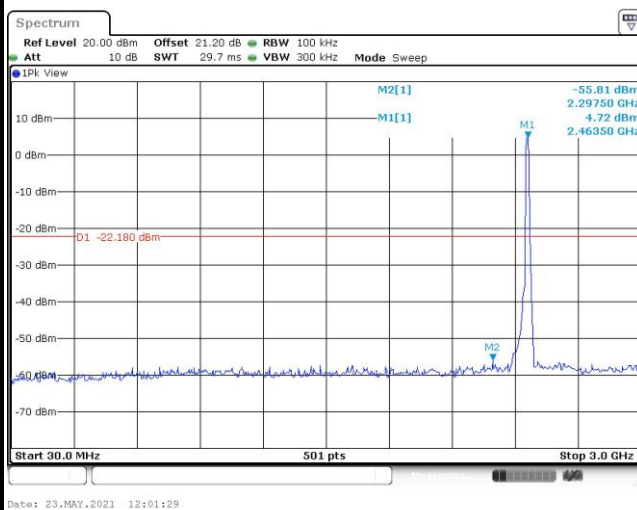
100kHz PSD reference Level



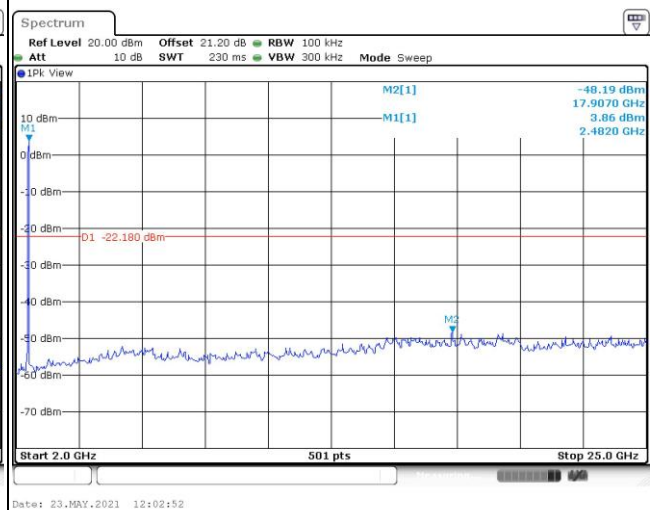
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz



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

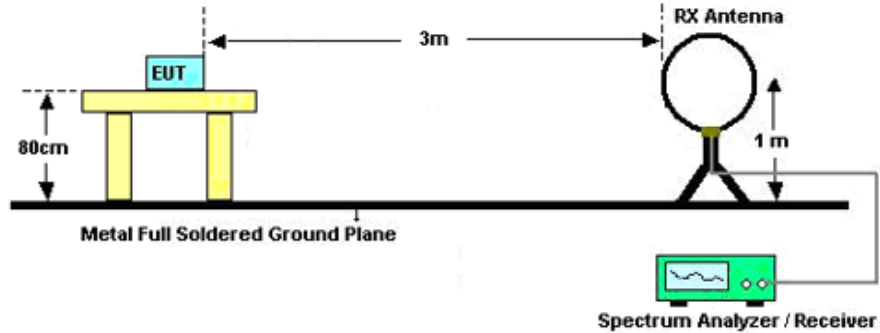
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better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

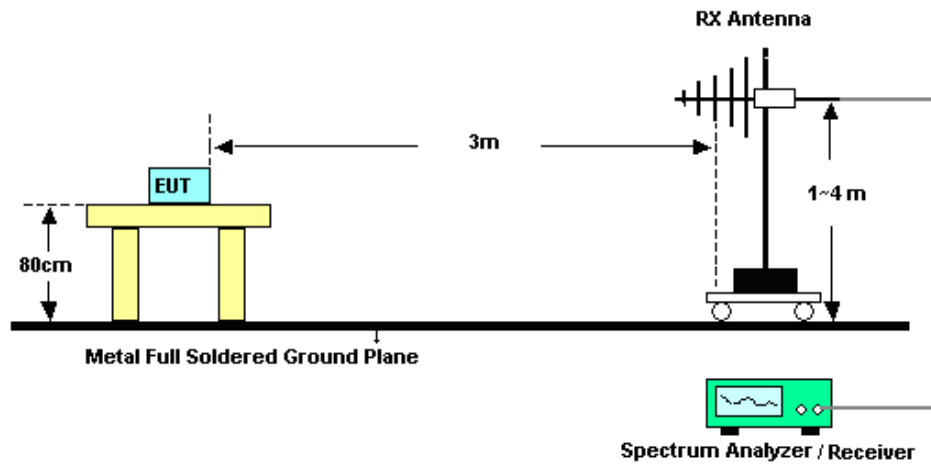
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

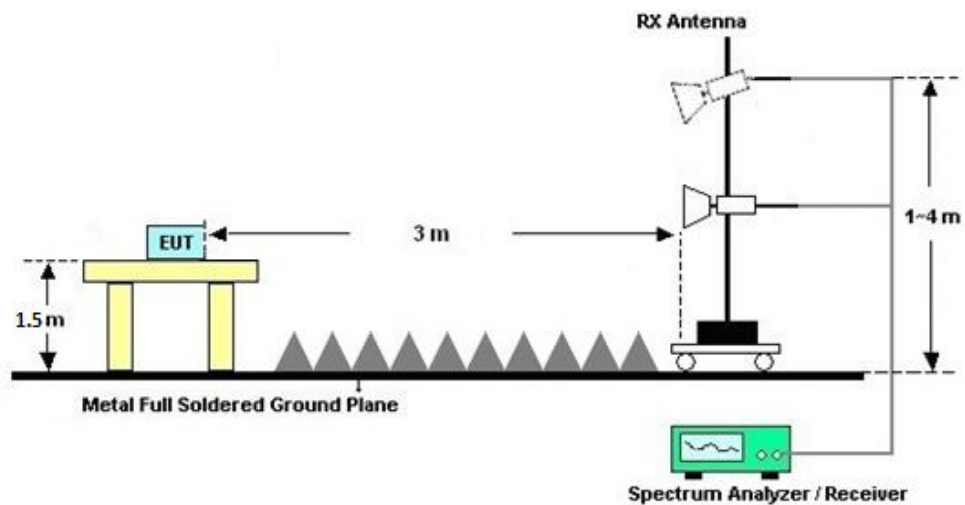
For radiated emissions below 30MHz



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.

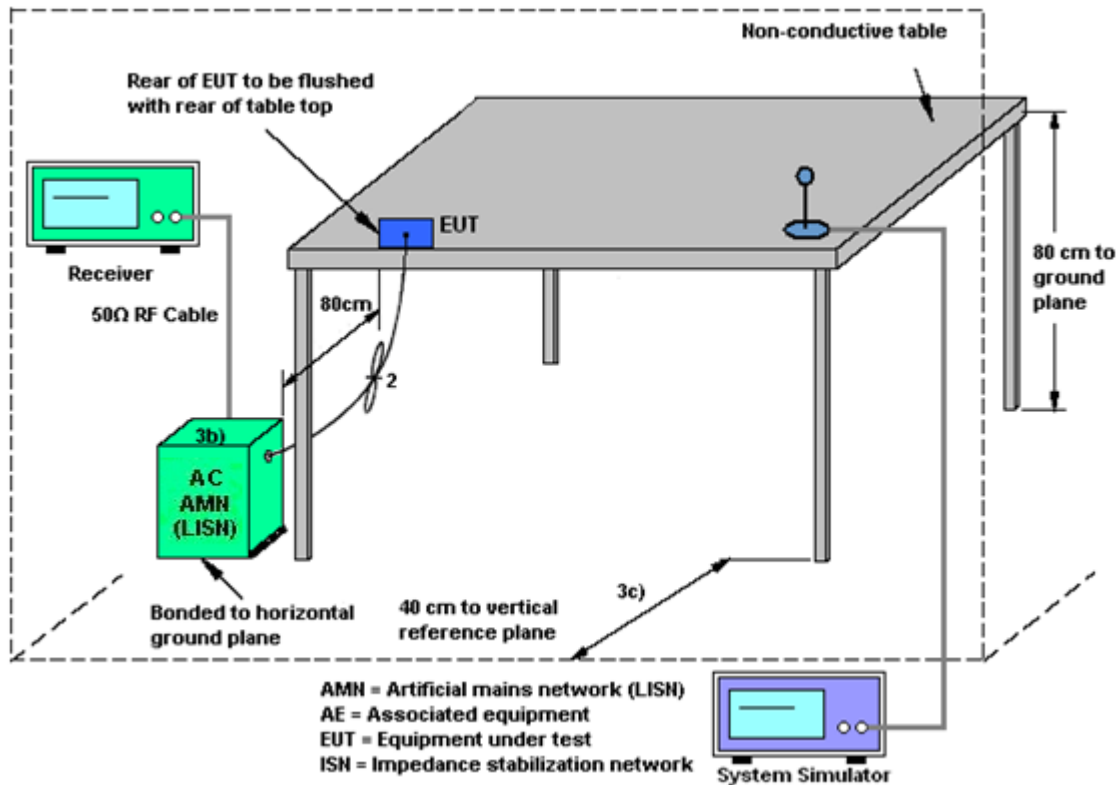
3.6.2 Measuring Instruments

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>						
			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	-1.50	-7.50	-1.50	-0.98	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	May 23, 2021 ~Jun. 17, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 25, 2020	May 23, 2021 ~Jun. 17, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 25, 2020	May 23, 2021 ~Jun. 17, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Jun. 09, 2021	Jul. 20, 2021	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Jun. 09, 2021	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2020	Jun. 09, 2021	Jul. 14, 2021	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Jun. 09, 2021	Jul. 24, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jun. 09, 2021	Jul. 20, 2021	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 23, 2021	Jun. 09, 2021	Apr. 22, 2022	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 16, 2020	Jun. 09, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2020	Jun. 09, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 16, 2020	Jun. 09, 2021	Oct. 15, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jun. 09, 2021	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jun. 09, 2021	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jun. 09, 2021	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 07, 2021	Jun. 11, 2021	Mar. 06, 2022	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Jun. 11, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Jun. 11, 2021	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 21, 2020	Jun. 11, 2021	Jul. 20, 2021	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 (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2dB
---	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
---	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
---	-------



Appendix A. Conducted Test Results

Test Engineer:	Liu Qiu Qiu	Temperature:	21~25	°C
Test Date:	2021/5/23~2021/06/17	Relative Humidity:	51~54	%

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	12.84	12.89	8.07	8.07	0.50	Pass
11b	1Mbps	2	6	2437	13.14	13.19	7.57	8.01	0.50	Pass
11b	1Mbps	2	11	2462	13.24	13.04	8.57	8.07	0.50	Pass
11g	6Mbps	2	1	2412	17.43	16.28	15.10	15.10	0.50	Pass
11g	6Mbps	2	6	2437	16.28	16.33	15.70	15.10	0.50	Pass
11g	6Mbps	2	11	2462	16.38	16.28	15.44	15.74	0.50	Pass
HT20	MCS0	2	1	2412	17.43	17.48	15.08	15.10	0.50	Pass
HT20	MCS0	2	6	2437	17.63	17.58	15.94	16.26	0.50	Pass
HT20	MCS0	2	11	2462	17.53	17.48	16.06	15.10	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		2	1	2412	Full	18.78	18.83	16.64	16.98	0.50	Pass
HE20		2	6	2437	Full	18.93	18.88	18.48	18.10	0.50	Pass
HE20		2	11	2462	Full	18.88	18.83	16.80	16.44	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average 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	18.30	18.20	21.26	30.00		-1.50		19.76		36.00		Pass
11b	1Mbps	2	6	2437	18.40	17.80	21.12	30.00		-1.50		19.62		36.00		Pass
11b	1Mbps	2	11	2462	18.50	18.10	21.31	30.00		-1.50		19.81		36.00		Pass
11g	6Mbps	2	1	2412	16.50	17.00	19.77	30.00		-1.50		18.27		36.00		Pass
11g	6Mbps	2	6	2437	17.70	17.50	20.61	30.00		-1.50		19.11		36.00		Pass
11g	6Mbps	2	11	2462	17.80	17.90	20.86	30.00		-1.50		19.36		36.00		Pass
HT20	MCS0	2	1	2412	15.80	16.00	18.91	30.00		-1.50		17.41		36.00		Pass
HT20	MCS0	2	6	2437	16.80	16.30	19.57	30.00		-1.50		18.07		36.00		Pass
HT20	MCS0	2	11	2462	16.90	16.90	19.91	30.00		-1.50		18.41		36.00		Pass
VHT20	MCS0	2	1	2412	15.70	15.90	18.81	30.00		-1.50		17.31		36.00		Pass
VHT20	MCS0	2	6	2437	16.70	16.20	19.47	30.00		-1.50		17.97		36.00		Pass
VHT20	MCS0	2	11	2462	16.80	16.80	19.81	30.00		-1.50		18.31		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)			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	15.80	16.00	18.91	30.00		-1.50		17.41		36.00		Pass
HE20	MCS0	2	1	2412	26/0	8.80	9.60	12.23	30.00		-1.50		10.73		36.00		Pass
HE20	MCS0	2	1	2412	52/37	12.00	12.70	15.37	30.00		-1.50		13.87		36.00		Pass
HE20	MCS0	2	1	2412	106/53	14.80	15.10	17.96	30.00		-1.50		16.46		36.00		Pass
HE20	MCS0	2	6	2437	Full	17.10	16.70	19.91	30.00		-1.50		18.41		36.00		Pass
HE20	MCS0	2	11	2462	Full	17.20	17.10	20.16	30.00		-1.50		18.66		36.00		Pass
HE20	MCS0	2	11	2462	26/8	8.40	8.40	11.41	30.00		-1.50		9.91		36.00		Pass
HE20	MCS0	2	11	2462	52/40	11.30	11.70	14.51	30.00		-1.50		13.01		36.00		Pass
HE20	MCS0	2	11	2462	106/54	14.20	14.60	17.41	30.00		-1.50		15.91		36.00		Pass

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

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	-4.45	-4.74	-1.44	-0.98		8.00		Pass
11b	1Mbps	2	6	2437	-4.64	-5.21	-1.63	-0.98		8.00		Pass
11b	1Mbps	2	11	2462	-4.01	-4.43	-1.00	-0.98		8.00		Pass
11g	6Mbps	2	1	2412	-7.95	-6.93	-3.92	-0.98		8.00		Pass
11g	6Mbps	2	6	2437	-7.85	-7.18	-4.17	-0.98		8.00		Pass
11g	6Mbps	2	11	2462	-7.78	-7.22	-4.21	-0.98		8.00		Pass
HT20	MCS0	2	1	2412	-7.49	-6.53	-3.52	-0.98		8.00		Pass
HT20	MCS0	2	6	2437	-7.18	-7.28	-4.17	-0.98		8.00		Pass
HT20	MCS0	2	11	2462	-6.05	-5.03	-2.02	-0.98		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

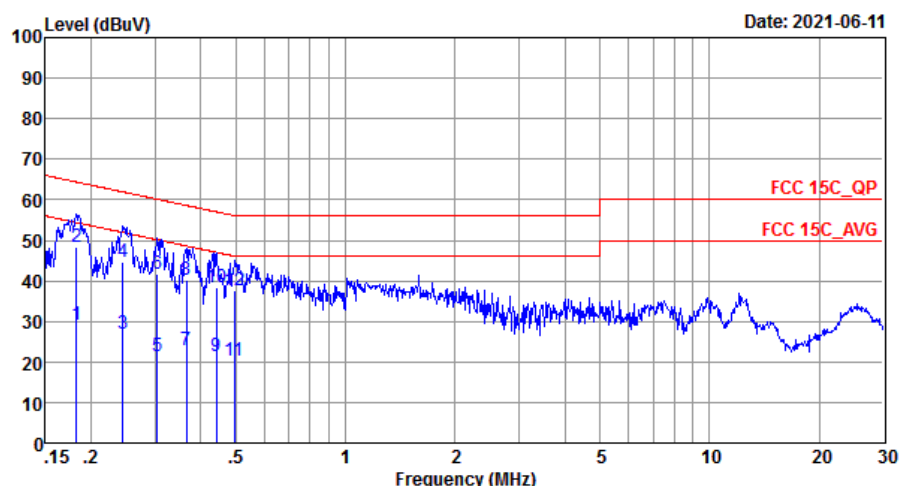
2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-7.61	-6.87	-3.86	-0.98		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-8.34	-6.93	-3.92	-0.98		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-8.38	-7.60	-4.59	-0.98		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-8.43	-7.00	-3.99	-0.98		8.00		Pass
HE20	MCS0	2	6	2437	Full	-7.76	-7.91	-4.75	-0.98		8.00		Pass
HE20	MCS0	2	11	2462	Full	-8.39	-6.77	-3.76	-0.98		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-8.62	-8.93	-5.61	-0.98		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-8.47	-8.08	-5.07	-0.98		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-9.03	-8.10	-5.09	-0.98		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℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

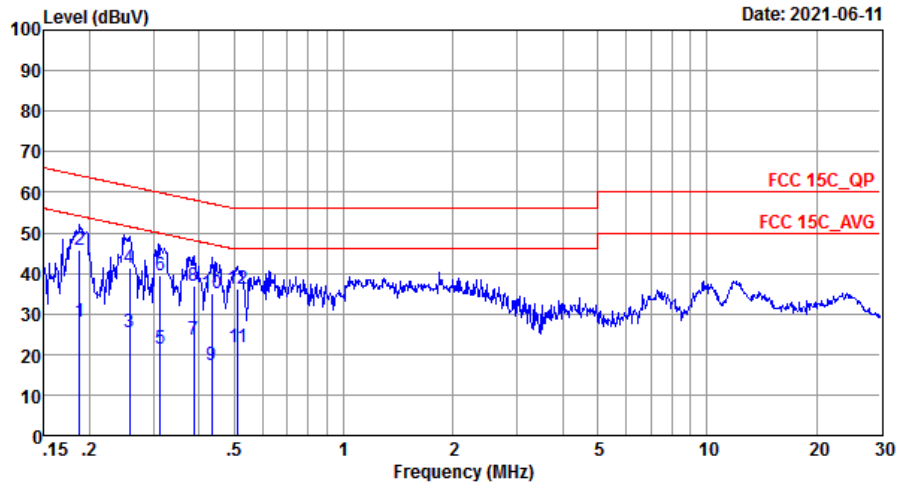


Site : C001-SZ
Condition: FCC 15C_QP LISN_20201030_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	29.30	-25.07	54.37	19.20	0.08	10.02	Average
2 *	0.18	48.30	-16.07	64.37	38.20	0.08	10.02	QP
3	0.24	26.78	-25.17	51.95	16.70	0.05	10.03	Average
4	0.24	44.58	-17.37	61.95	34.50	0.05	10.03	QP
5	0.30	21.55	-28.60	50.15	11.50	0.01	10.04	Average
6	0.30	41.55	-18.60	60.15	31.50	0.01	10.04	QP
7	0.37	23.00	-25.61	48.61	12.90	0.06	10.04	Average
8	0.37	40.20	-18.41	58.61	30.10	0.06	10.04	QP
9	0.44	21.54	-25.48	47.02	11.40	0.09	10.05	Average
10	0.44	38.34	-18.68	57.02	28.20	0.09	10.05	QP
11	0.49	20.25	-25.85	46.10	10.10	0.10	10.05	Average
12	0.49	37.55	-18.55	56.10	27.40	0.10	10.05	QP



Test Engineer :	Xie YuQiang	Temperature :	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-SZ
Condition: FCC 15C QP LISN 20201030 N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.19	28.11	-26.04	54.15	18.00	0.08	10.03	Average
2 *	0.19	45.61	-18.54	64.15	35.50	0.08	10.03	QP
3	0.26	25.37	-26.14	51.51	15.29	0.04	10.04	Average
4	0.26	41.27	-20.24	61.51	31.19	0.04	10.04	QP
5	0.31	21.36	-28.52	49.88	11.30	0.02	10.04	Average
6	0.31	39.66	-20.22	59.88	29.60	0.02	10.04	QP
7	0.39	23.72	-24.40	48.12	13.61	0.07	10.04	Average
8	0.39	37.02	-21.10	58.12	26.91	0.07	10.04	QP
9	0.43	17.43	-29.77	47.20	7.29	0.09	10.05	Average
10	0.43	35.23	-21.97	57.20	25.09	0.09	10.05	QP
11	0.51	21.65	-24.35	46.00	11.50	0.10	10.05	Average
12	0.51	36.15	-19.85	56.00	26.00	0.10	10.05	QP

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

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		2389.38	48.16	-25.84	74	48.19	27.7	5.55	33.28	264	60	P	H
		2388.96	42.35	-11.65	54	42.38	27.7	5.55	33.28	264	60	A	H
	*	2412	105.01	-	-	105.03	27.67	5.57	33.26	264	60	P	H
	*	2412	101.93	-	-	101.95	27.67	5.57	33.26	264	60	A	H
		2387.805	50.89	-23.11	74	50.92	27.7	5.55	33.28	142	45	P	V
		2388.96	45.56	-8.44	54	45.59	27.7	5.55	33.28	142	45	A	V
	*	2412	107.36	-	-	107.38	27.67	5.57	33.26	142	45	P	V
	*	2412	104.26	-	-	104.28	27.67	5.57	33.26	142	45	A	V
802.11b CH 06 2437MHz		2319.66	46.9	-27.1	74	46.81	27.93	5.47	33.31	289	55	P	H
		2388.68	37.95	-16.05	54	37.98	27.7	5.55	33.28	289	55	A	H
	*	2437	104.97	-	-	105	27.6	5.61	33.24	289	55	P	H
	*	2437	101.86	-	-	101.89	27.6	5.61	33.24	289	55	A	H
		2486.98	47.72	-26.28	74	47.81	27.47	5.66	33.22	289	55	P	H
		2487.89	37.96	-16.04	54	38.1	27.4	5.68	33.22	289	55	A	H
		2388.68	48.18	-25.82	74	48.21	27.7	5.55	33.28	143	44	P	V
		2389.94	40.12	-13.88	54	40.13	27.7	5.55	33.26	143	44	A	V
	*	2437	107.32	-	-	107.35	27.6	5.61	33.24	143	44	P	V
	*	2437	104.23	-	-	104.26	27.6	5.61	33.24	143	44	A	V
		2485.51	46.45	-27.55	74	46.54	27.47	5.66	33.22	143	44	P	V
		2486.49	38.74	-15.26	54	38.83	27.47	5.66	33.22	143	44	A	V
802.11b CH 11 2462MHz	*	2462	105.18	-	-	105.24	27.53	5.64	33.23	287	50	P	H
	*	2462	102.12	-	-	102.18	27.53	5.64	33.23	287	50	A	H
		2488.04	47.3	-26.7	74	47.44	27.4	5.68	33.22	287	50	P	H
		2484.64	39.03	-14.97	54	39.12	27.47	5.66	33.22	287	50	A	H
	*	2462	106.92	-	-	106.98	27.53	5.64	33.23	138	44	P	V
	*	2462	103.88	-	-	103.94	27.53	5.64	33.23	138	44	A	V
		2488.28	48.31	-25.69	74	48.45	27.4	5.68	33.22	138	44	P	V
		2485.04	40.63	-13.37	54	40.72	27.47	5.66	33.22	138	44	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		4824	51.16	-22.84	74	65.67	31.15	8.71	54.37	189	153	P	H
		4824	45.84	-8.16	54	60.35	31.15	8.71	54.37	189	153	A	H
		4824	51.67	-22.33	74	66.18	31.15	8.71	54.37	189	153	P	V
		4824	45.59	-8.41	54	60.1	31.15	8.71	54.37	189	153	A	V
802.11b CH 06 2437MHz		4874	46.5	-27.5	74	60.93	31.13	8.79	54.35	189	156	P	H
		7311	49.43	-24.57	74	56.45	36.4	11.09	54.51	145	198	P	H
		4874	46.9	-27.1	74	61.33	31.13	8.79	54.35	189	156	P	V
		7311	52.51	-21.49	74	59.53	36.4	11.09	54.51	145	198	P	V
		7311	48.61	-5.39	54	55.63	36.4	11.09	54.51	145	198	A	V
802.11b CH 11 2462MHz		4924	44.7	-29.3	74	58.9	31.23	8.9	54.33	122	94	P	H
		7386	50.42	-23.58	74	57.64	36.3	11.08	54.6	188	164	P	H
		4924	46.53	-27.47	74	60.73	31.23	8.9	54.33	122	94	P	V
		7386	52.73	-21.27	74	59.95	36.3	11.08	54.6	188	164	P	V
		7386	47.78	-6.22	54	55	36.3	11.08	54.6	188	164	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11g CH 01 2412MHz		2389.695	60.11	-13.89	74	60.14	27.7	5.55	33.28	100	62	P	H
		2390	47.02	-6.98	54	47.03	27.7	5.55	33.26	100	62	A	H
	*	2412	105.15	-	-	105.17	27.67	5.57	33.26	100	62	P	H
	*	2412	98.33	-	-	98.35	27.67	5.57	33.26	100	62	A	H
		2389.8	61.03	-12.97	74	61.04	27.7	5.55	33.26	102	275	P	V
		2389.905	49.65	-4.35	54	49.66	27.7	5.55	33.26	102	275	A	V
	*	2412	107.73	-	-	107.75	27.67	5.57	33.26	102	275	P	V
	*	2412	99.92	-	-	99.94	27.67	5.57	33.26	102	275	A	V
802.11g CH 06 2437MHz		2389.38	57.85	-16.15	74	57.88	27.7	5.55	33.28	100	58	P	H
		2389.94	45.47	-8.53	54	45.48	27.7	5.55	33.26	100	58	A	H
	*	2437	106.09	-	-	106.12	27.6	5.61	33.24	100	58	P	H
	*	2437	98.67	-	-	98.7	27.6	5.61	33.24	100	58	A	H
		2483.69	54.85	-19.15	74	54.94	27.47	5.66	33.22	100	58	P	H
		2484.74	42.81	-11.19	54	42.9	27.47	5.66	33.22	100	58	A	H
		2388.96	49.94	-24.06	74	49.97	27.7	5.55	33.28	139	46	P	V
		2389.94	40.7	-13.3	54	40.71	27.7	5.55	33.26	139	46	A	V
	*	2437	109.09	-	-	109.12	27.6	5.61	33.24	139	46	P	V
	*	2437	101.85	-	-	101.88	27.6	5.61	33.24	139	46	A	V
		2483.9	49.35	-24.65	74	49.44	27.47	5.66	33.22	139	46	P	V
		2483.76	39.33	-14.67	54	39.42	27.47	5.66	33.22	139	46	A	V
802.11g CH 11 2462MHz	*	2462	105.98	-	-	106.04	27.53	5.64	33.23	100	60	P	H
	*	2462	98.5	-	-	98.56	27.53	5.64	33.23	100	60	A	H
		2485	56.19	-17.81	74	56.28	27.47	5.66	33.22	100	60	P	H
		2483.92	46.38	-7.62	54	46.47	27.47	5.66	33.22	100	60	A	H
	*	2462	108.01	-	-	108.07	27.53	5.64	33.23	141	54	P	V
	*	2462	100.71	-	-	100.77	27.53	5.64	33.23	141	54	A	V
		2483.56	59.79	-14.21	74	59.88	27.47	5.66	33.22	141	54	P	V
		2483.52	49.83	-4.17	54	49.92	27.47	5.66	33.22	141	54	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
802.11g CH 01 2412MHz		4824	42.82	-31.18	74	57.33	31.15	8.71	54.37	136	299	P	H
		4824	44	-30	74	58.51	31.15	8.71	54.37	136	299	P	V
802.11g CH 06 2437MHz		4874	43.8	-30.2	74	58.23	31.13	8.79	54.35	196	163	P	H
		7311	49.68	-24.32	74	56.7	36.4	11.09	54.51	193	191	P	H
		4874	43.67	-30.33	74	58.1	31.13	8.79	54.35	196	163	P	V
		7311	51.73	-22.27	74	58.75	36.4	11.09	54.51	193	191	P	V
		7311	46.44	-7.56	54	53.46	36.4	11.09	54.51	193	191	A	V
802.11g CH 11 2462MHz		4924	40.82	-33.18	74	55.02	31.23	8.9	54.33	142	85	P	H
		7386	48.21	-25.79	74	55.43	36.3	11.08	54.6	178	145	P	H
		4924	43.07	-30.93	74	57.27	31.23	8.9	54.33	142	85	P	V
		7386	52.26	-21.74	74	59.48	36.3	11.08	54.6	178	145	P	V
		7386	46.9	-7.1	54	54.12	36.3	11.08	54.6	178	145	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11n HT20 CH 01 2412MHz		2389.8	56.86	-17.14	74	56.87	27.7	5.55	33.26	266	45	P	H
		2390	46.85	-7.15	54	46.86	27.7	5.55	33.26	266	45	A	H
	*	2412	103.78	-	-	103.8	27.67	5.57	33.26	266	45	P	H
	*	2412	95.84	-	-	95.86	27.67	5.57	33.26	266	45	A	H
		2389.905	60	-14	74	60.01	27.7	5.55	33.26	115	45	P	V
		2390	50.7	-3.3	54	50.71	27.7	5.55	33.26	115	45	A	V
	*	2412	107.43	-	-	107.45	27.67	5.57	33.26	115	45	P	V
	*	2412	99.92	-	-	99.94	27.67	5.57	33.26	115	45	A	V
802.11n HT20 CH 06 2437MHz		2383.78	47.58	-26.42	74	47.56	27.77	5.53	33.28	258	43	P	H
		2389.8	36.42	-17.58	54	36.43	27.7	5.55	33.26	258	43	A	H
	*	2437	104.14	-	-	104.17	27.6	5.61	33.24	258	43	P	H
	*	2437	96.98	-	-	97.01	27.6	5.61	33.24	258	43	A	H
		2484.88	46.74	-27.26	74	46.83	27.47	5.66	33.22	258	43	P	H
		2483.5	36.3	-17.7	54	36.39	27.47	5.66	33.22	258	43	A	H
		2323.72	46.23	-27.77	74	46.14	27.93	5.47	33.31	140	55	P	V
		2389.94	37.85	-16.15	54	37.86	27.7	5.55	33.26	140	55	A	V
	*	2437	107.14	-	-	107.17	27.6	5.61	33.24	140	55	P	V
	*	2437	99.67	-	-	99.7	27.6	5.61	33.24	140	55	A	V
		2484.11	47.33	-26.67	74	47.42	27.47	5.66	33.22	140	55	P	V
		2483.69	36.97	-17.03	54	37.06	27.47	5.66	33.22	140	55	A	V
802.11n HT20 CH 11 2462MHz	*	2462	104.54	-	-	104.6	27.53	5.64	33.23	278	52	P	H
	*	2462	96.79	-	-	96.85	27.53	5.64	33.23	278	52	A	H
		2483.68	52.17	-21.83	74	52.26	27.47	5.66	33.22	278	52	P	H
		2483.52	41.7	-12.3	54	41.79	27.47	5.66	33.22	278	52	A	H
	*	2462	107.38	-	-	107.44	27.53	5.64	33.23	140	54	P	V
	*	2462	99.82	-	-	99.88	27.53	5.64	33.23	140	54	A	V
		2483.84	53.33	-20.67	74	53.42	27.47	5.66	33.22	140	54	P	V
		2483.52	42.87	-11.13	54	42.96	27.47	5.66	33.22	140	54	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	42.73	-31.27	74	57.24	31.15	8.71	54.37	194	311	P	H
		4824	41.48	-32.52	74	55.99	31.15	8.71	54.37	194	311	P	V
802.11n HT20 CH 06 2437MHz		4874	42.65	-31.35	74	57.08	31.13	8.79	54.35	108	294	P	H
		7311	48	-26	74	55.02	36.4	11.09	54.51	117	356	P	H
		4874	45.58	-28.42	74	60.01	31.13	8.79	54.35	108	294	P	V
		7311	54.92	-19.08	74	61.94	36.4	11.09	54.51	243	356	P	V
802.11n HT20 CH 11 2462MHz		4924	43.18	-30.82	74	57.38	31.23	8.9	54.33	122	94	P	H
		7386	47.45	-26.55	74	54.67	36.3	11.08	54.6	188	164	P	H
		4924	44.1	-29.9	74	58.3	31.23	8.9	54.33	122	94	P	V
		7386	54.39	-19.61	74	61.61	36.3	11.08	54.6	188	164	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11ax HE20 CH 01 2412MHz		2390	54.81	-19.19	74	54.82	27.7	5.55	33.26	100	212	P	H
		2390	45.57	-8.43	54	45.58	27.7	5.55	33.26	100	212	A	H
	*	2412	103.59	-	-	103.61	27.67	5.57	33.26	100	212	P	H
	*	2412	95.3	-	-	95.32	27.67	5.57	33.26	100	212	A	H
		2390	57.73	-16.27	74	57.74	27.7	5.55	33.26	101	268	P	V
		2390	50.02	-3.98	54	50.03	27.7	5.55	33.26	101	268	A	V
	*	2412	107.22	-	-	107.24	27.67	5.57	33.26	101	268	P	V
	*	2412	97.2	-	-	97.22	27.67	5.57	33.26	101	268	A	V
802.11ax HE20 CH 06 2437MHz		2380.56	46.07	-27.93	74	46.05	27.77	5.53	33.28	100	212	P	H
		2389.94	37.23	-16.77	54	37.24	27.7	5.55	33.26	100	212	A	H
	*	2437	105.66	-	-	105.69	27.6	5.61	33.24	100	212	P	H
	*	2437	97.82	-	-	97.85	27.6	5.61	33.24	100	212	A	H
		2483.55	47.08	-26.92	74	47.17	27.47	5.66	33.22	100	212	P	H
		2483.69	36.97	-17.03	54	37.06	27.47	5.66	33.22	100	212	A	H
		2380.42	46.56	-27.44	74	46.54	27.77	5.53	33.28	106	264	P	V
		2389.94	37.52	-16.48	54	37.53	27.7	5.55	33.26	106	264	A	V
	*	2437	108.18	-	-	108.21	27.6	5.61	33.24	106	264	P	V
	*	2437	99.53	-	-	99.56	27.6	5.61	33.24	106	264	A	V
		2483.55	48.44	-25.56	74	48.53	27.47	5.66	33.22	106	264	P	V
		2483.5	37.58	-16.42	54	37.67	27.47	5.66	33.22	106	264	A	V
802.11ax HE20 CH 11 2462MHz	*	2462	107.01	-	-	107.07	27.53	5.64	33.23	107	214	P	H
	*	2462	97.66	-	-	97.72	27.53	5.64	33.23	107	214	A	H
		2486	54.48	-19.52	74	54.57	27.47	5.66	33.22	107	214	P	H
		2483.52	43.88	-10.12	54	43.97	27.47	5.66	33.22	107	214	A	H
	*	2462	108.1	-	-	108.16	27.53	5.64	33.23	100	259	P	V
	*	2462	99.98	-	-	100.04	27.53	5.64	33.23	100	259	A	V
		2483.76	57.35	-16.65	74	57.44	27.47	5.66	33.22	100	259	P	V
		2483.52	45.77	-8.23	54	45.86	27.47	5.66	33.22	100	259	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 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11ax HE20 CH 01 2412MHz		4824	39.88	-34.12	74	54.39	31.15	8.71	54.37	189	153	P	H
		4824	51.67	-22.33	74	66.18	31.15	8.71	54.37	189	153	P	V
802.11ax HE20 CH 06 2437MHz		4924	45.62	-28.38	74	59.82	31.23	8.9	54.33	122	94	P	H
		7386	48.23	-25.77	74	55.45	36.3	11.08	54.6	188	164	P	H
		4924	45.73	-28.27	74	59.93	31.23	8.9	54.33	122	94	P	V
		7386	49.33	-24.67	74	56.55	36.3	11.08	54.6	188	164	P	V
802.11ax HE20 CH 11 2462MHz		4924	47.47	-26.53	74	61.67	31.23	8.9	54.33	122	94	P	H
		7386	49.33	-24.67	74	56.55	36.3	11.08	54.6	188	164	P	H
		4924	45.73	-28.27	74	59.93	31.23	8.9	54.33	122	94	P	V
		7386	49.33	-24.67	74	56.55	36.3	11.08	54.6	188	164	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
2.4GHz 802.11n HT20 LF		91.11	27.19	-16.31	43.5	43.33	15	0.96	32.1	-	-	P	H
		163.86	22.98	-20.52	43.5	37.64	16.2	1.31	32.17	-	-	P	H
		290.93	24.07	-21.93	46	34.9	19.12	1.77	31.72	-	-	P	H
		564.47	29.17	-16.83	46	31.02	26.5	2.49	30.84	-	-	P	H
		747.8	31.03	-14.97	46	31.02	28.26	2.85	31.1	-	-	P	H
		940.83	32.76	-13.24	46	30.68	30.36	3.22	31.5	100	230	P	H
		33.88	33.23	-6.77	40	41.97	23.1	0.56	32.4	100	230	P	V
		151.25	20.27	-23.23	43.5	34.1	17.1	1.26	32.19	-	-	P	V
		412.18	23.86	-22.14	46	30.64	22.48	2.12	31.38	-	-	P	V
		585.81	29.27	-16.73	46	31.52	25.98	2.53	30.76	-	-	P	V
		724.52	31.55	-14.45	46	32.2	27.5	2.8	30.95	-	-	P	V
		964.11	32.43	-21.57	54	29.25	31.28	3.25	31.35	-	-	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	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(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. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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)

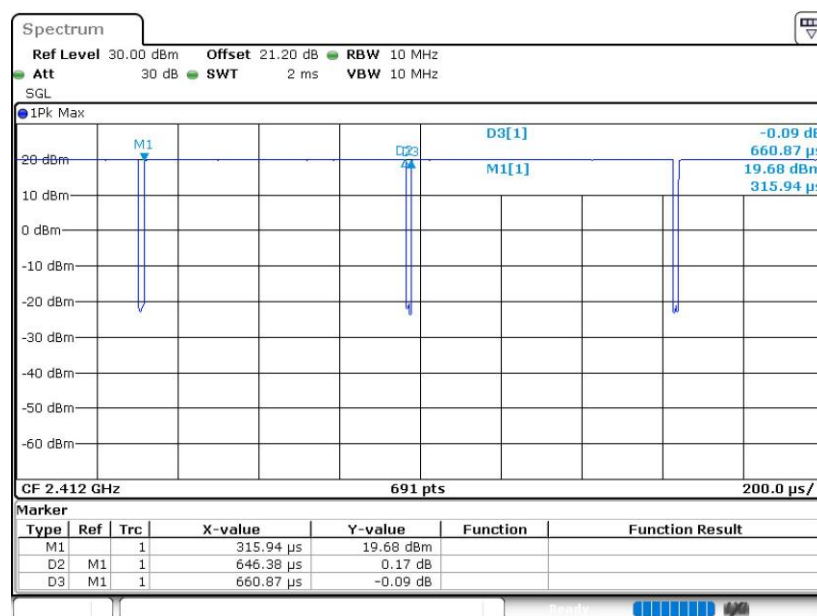
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

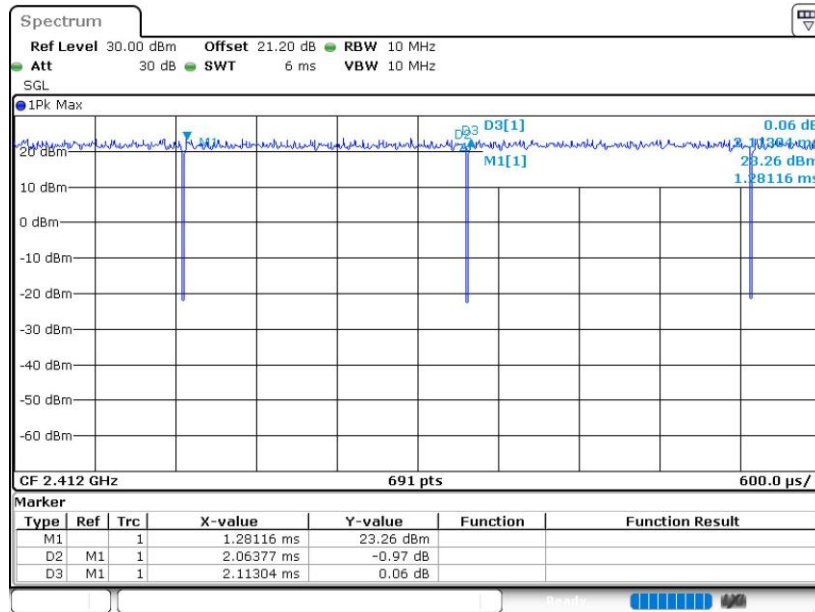
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.81	0.646	1.547	3KHz
802.11g	97.67	2.063	0.485	1KHz
802.11n HT20	100	-	-	10Hz
802.11ax HE20	100	-	-	10Hz

802.11b



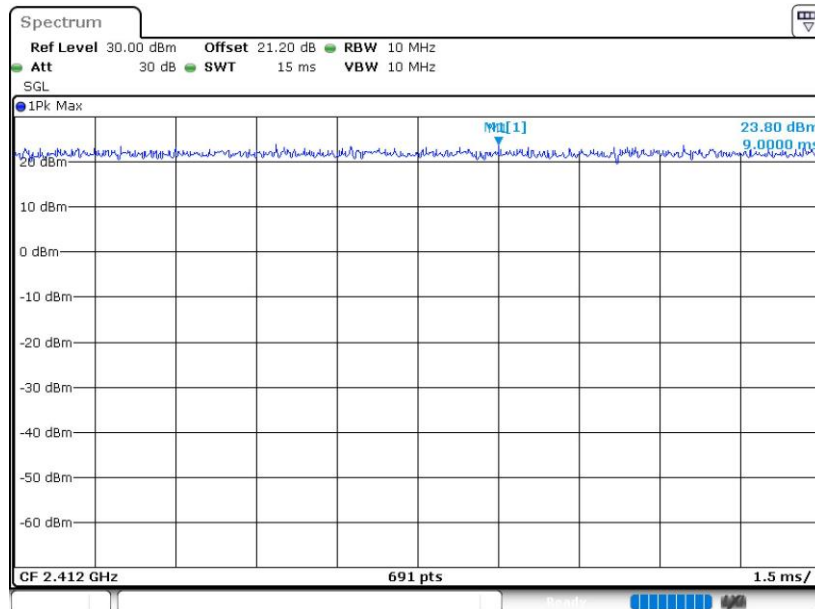
Date: 20.MAY.2021 14:57:25

802.11g



Date: 20.MAY.2021 15:09:11

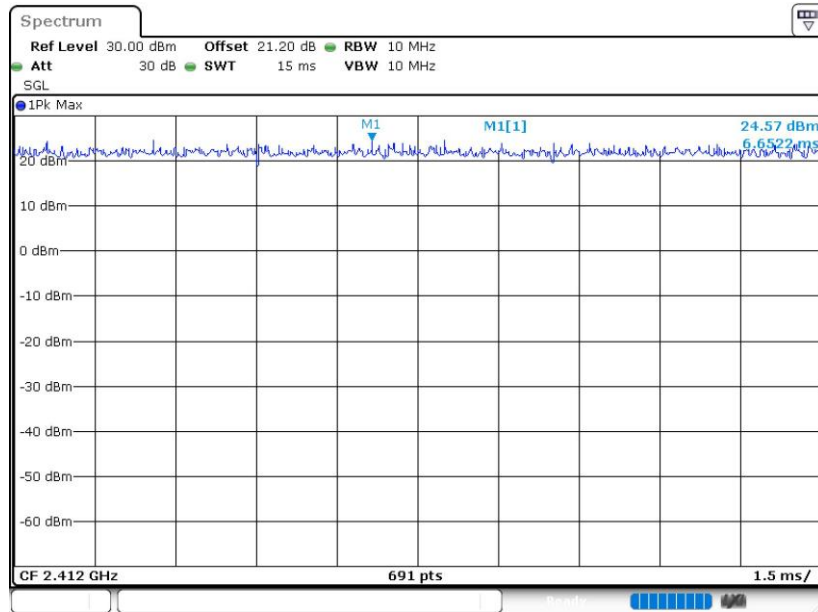
802.11n HT20



Date: 20.MAY.2021 15:15:55



802.11ax HE20



Date: 20.MAY.2021 15:43:56