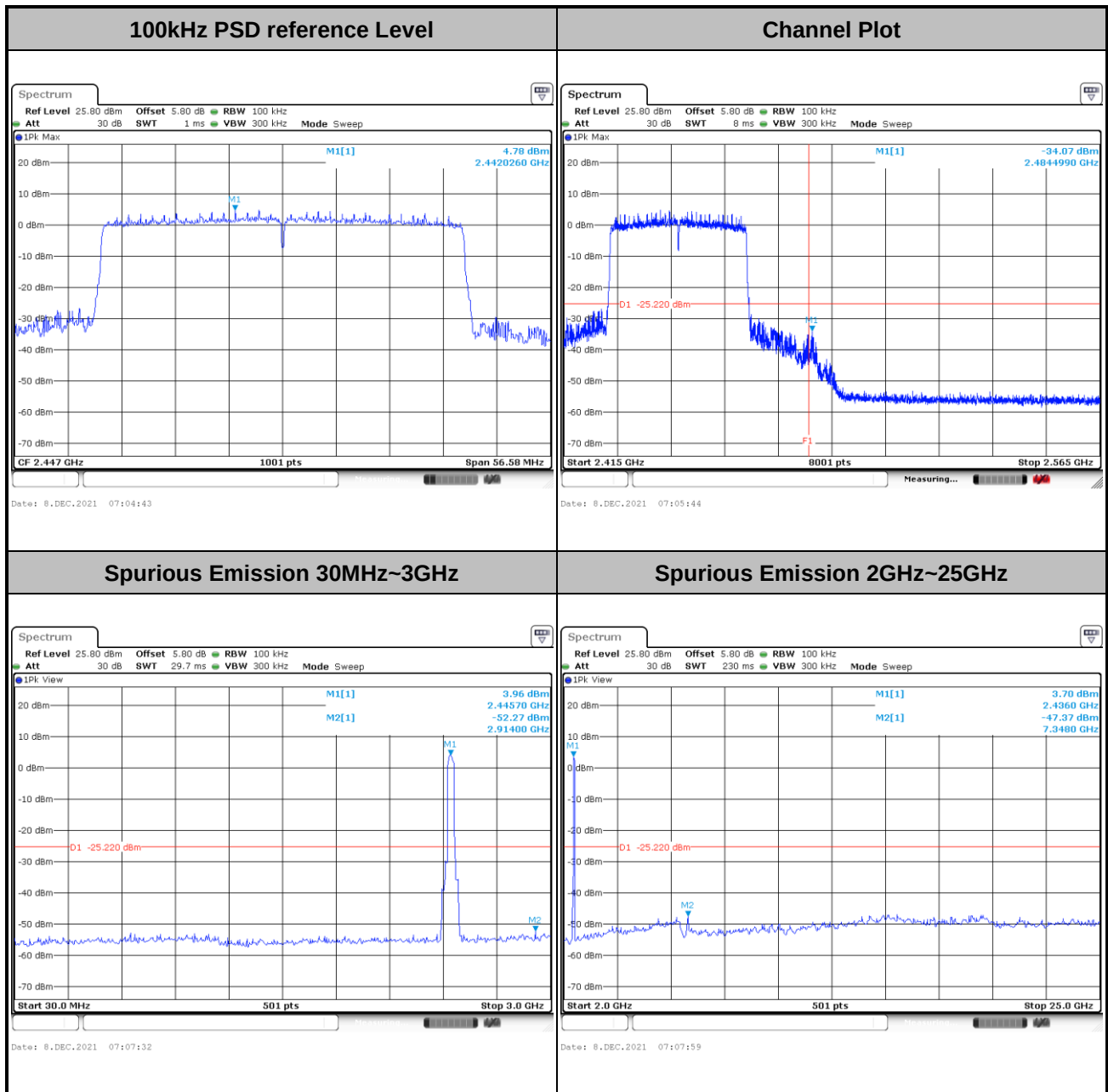


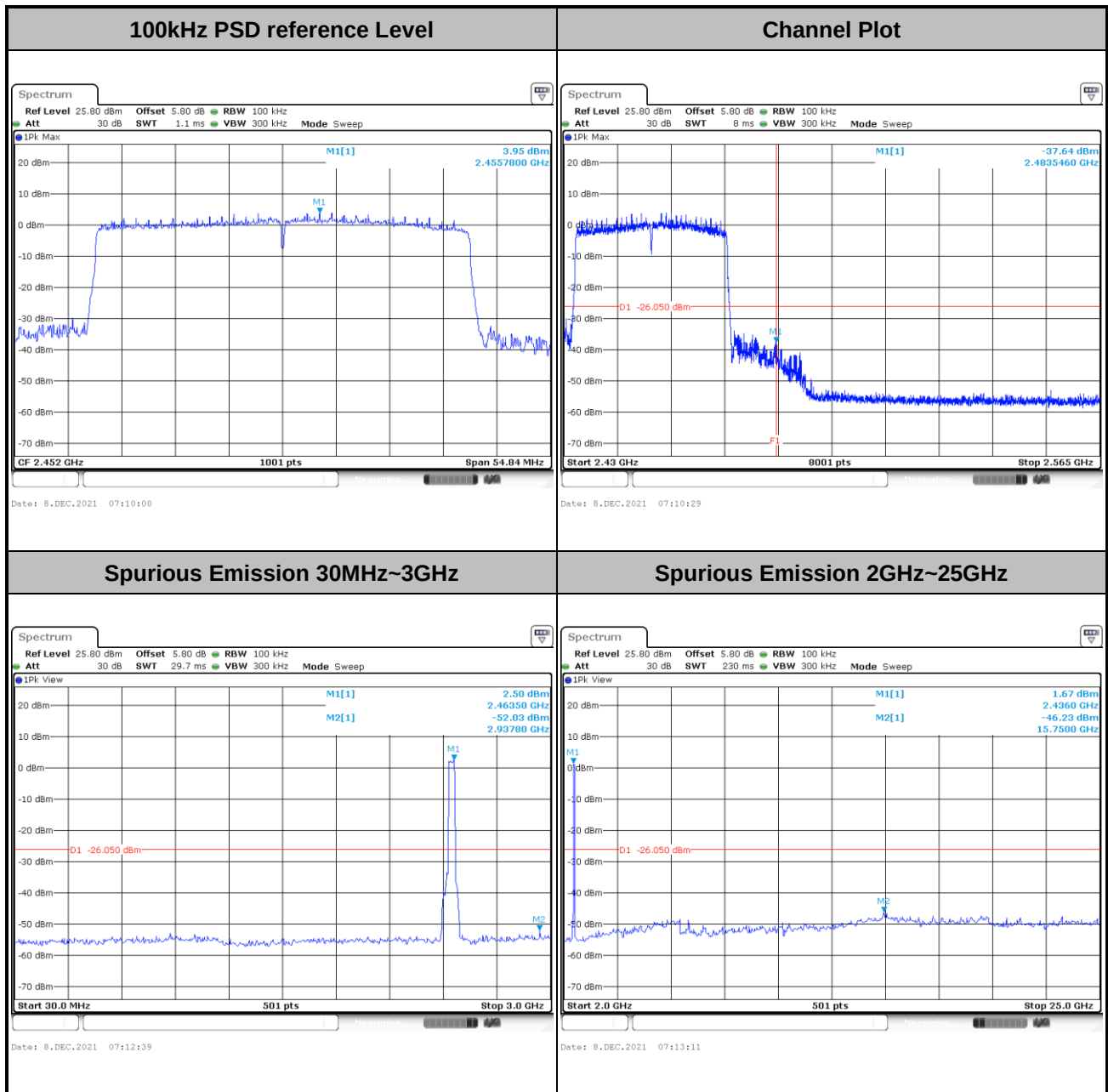


Test Mode :	802.11ax HE40	Test Channel :	08
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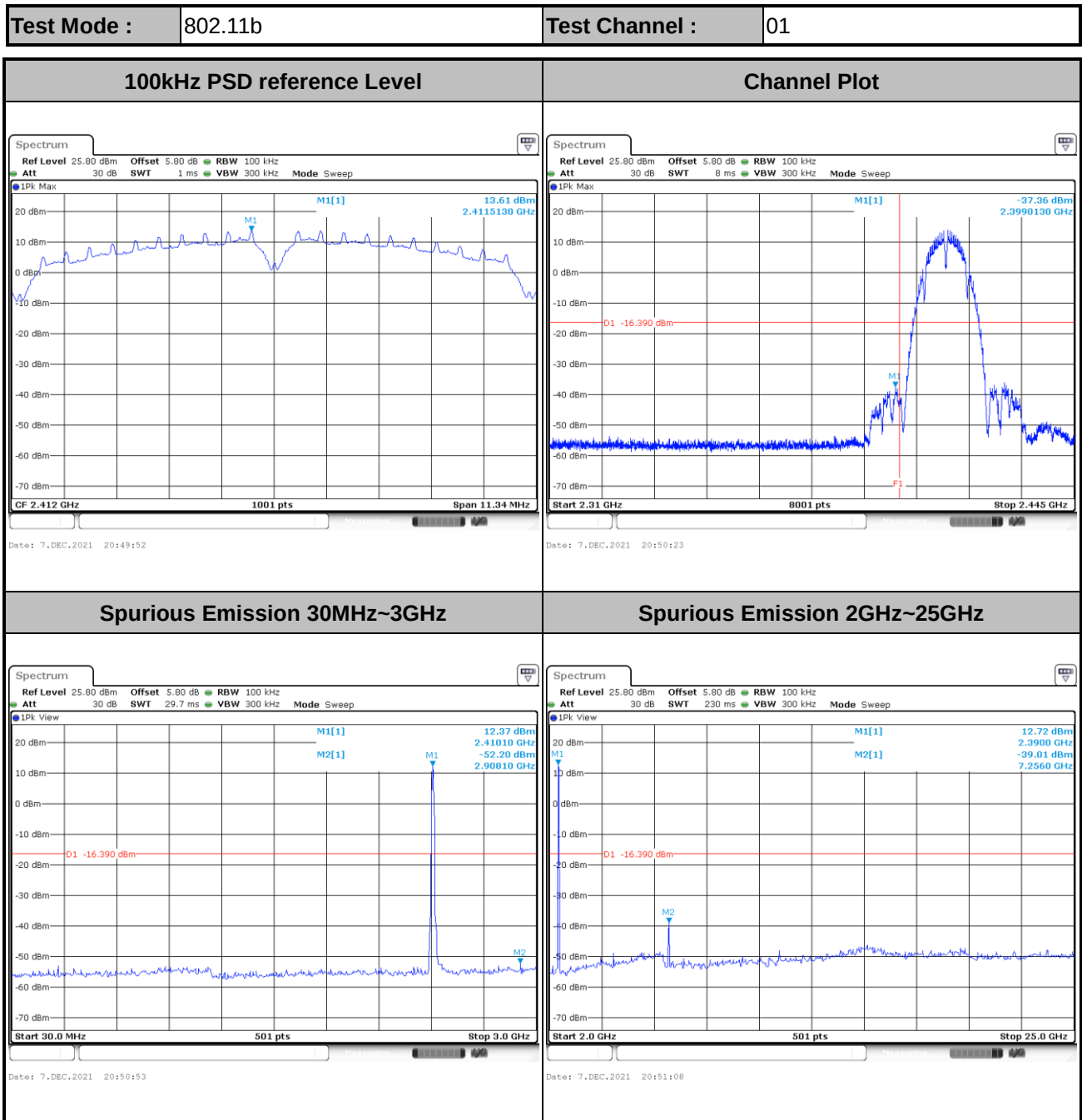


Test Mode :	802.11ax HE40	Test Channel :	09
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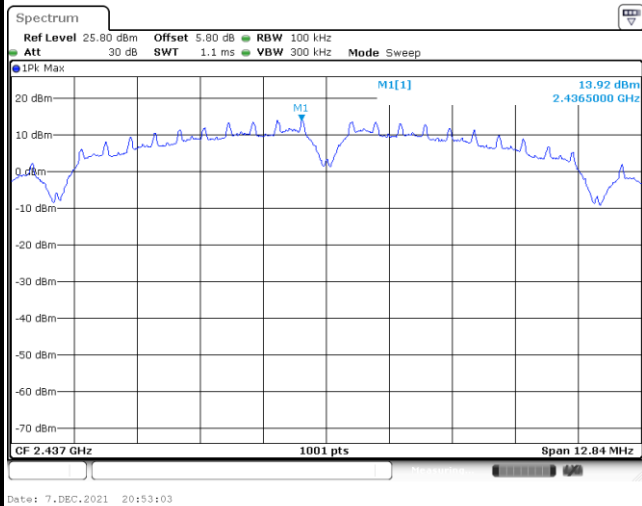
Number of TX = 4, Ant. 4 (Measured)



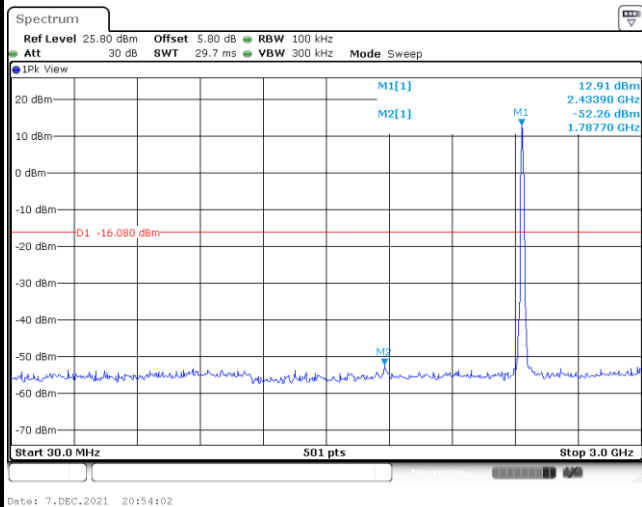


Test Mode :	802.11b	Test Channel :	06
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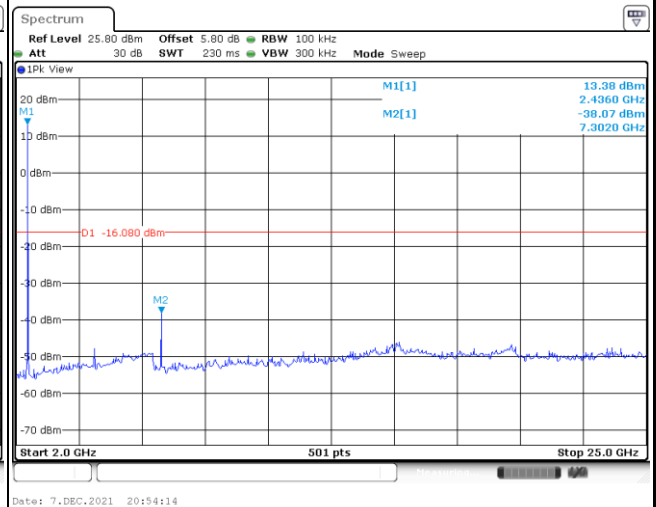
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

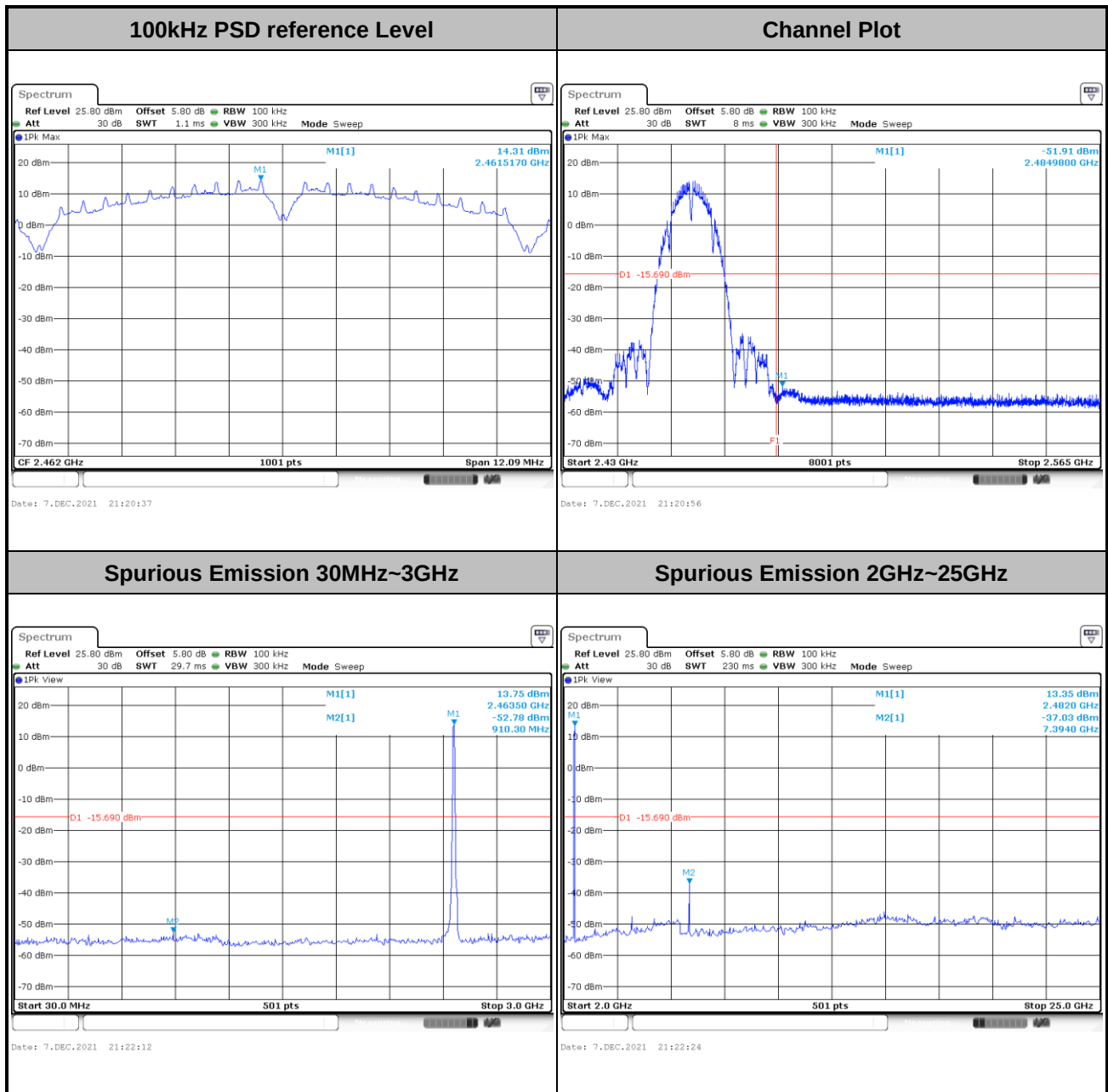


Spurious Emission 2GHz~25GHz



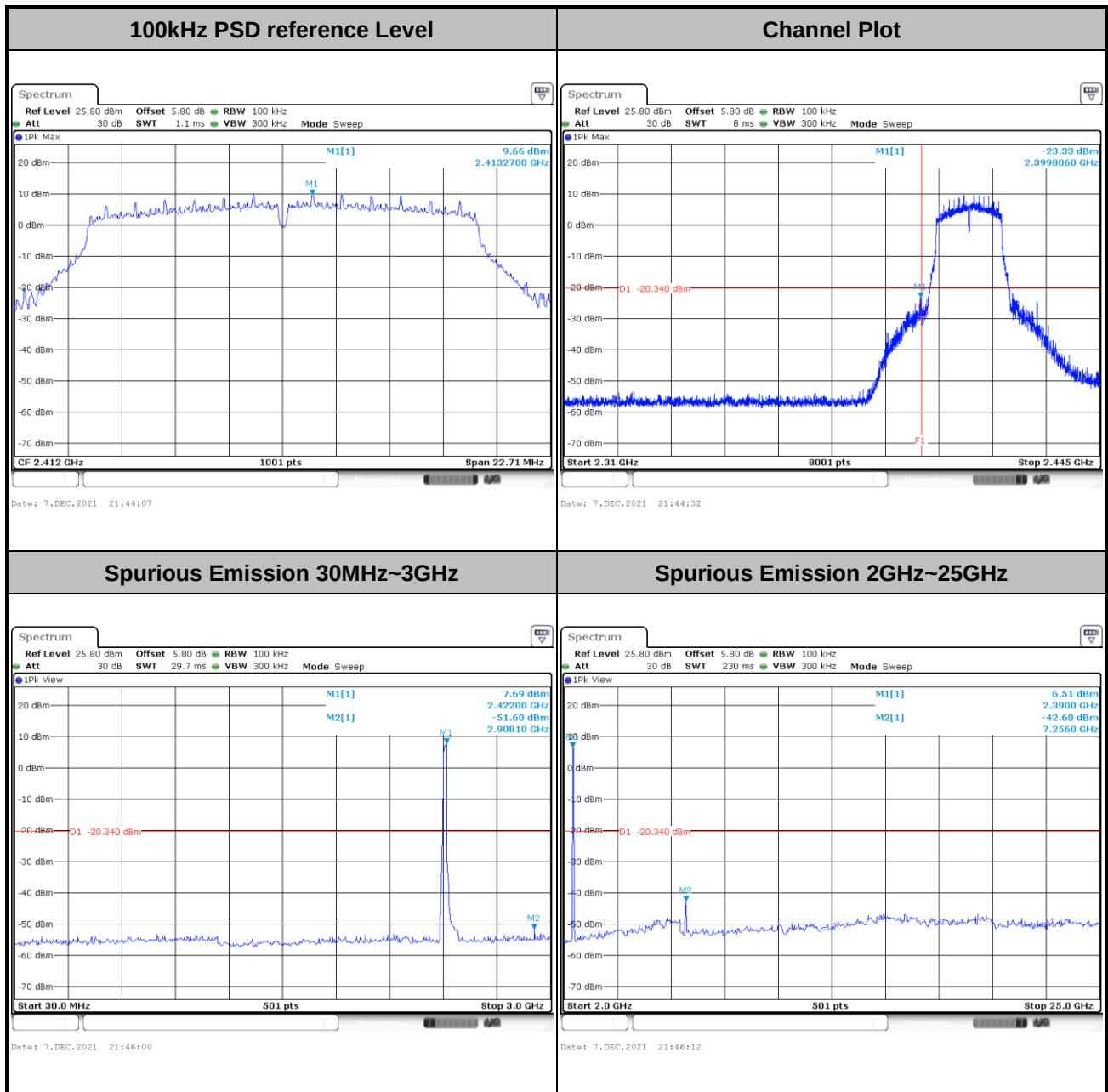


Test Mode :	802.11b	Test Channel :	11
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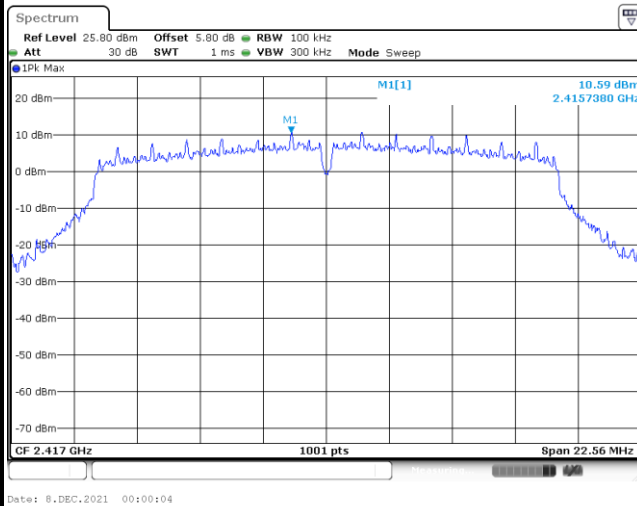
Test Mode :	802.11g	Test Channel :	01
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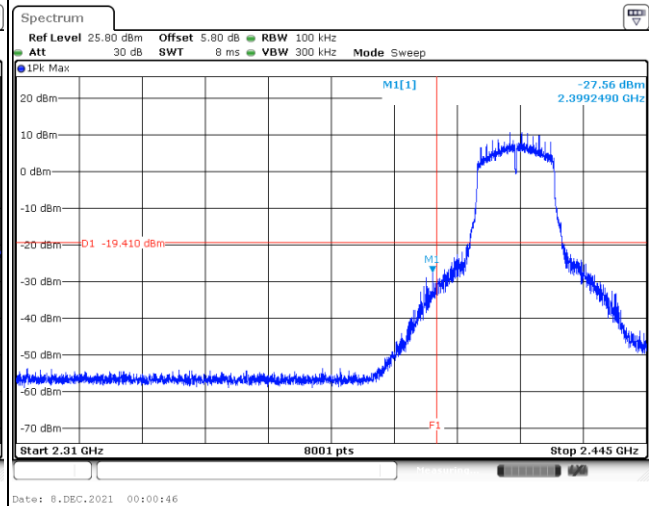
Test Mode :	802.11g
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Test Channel :	02
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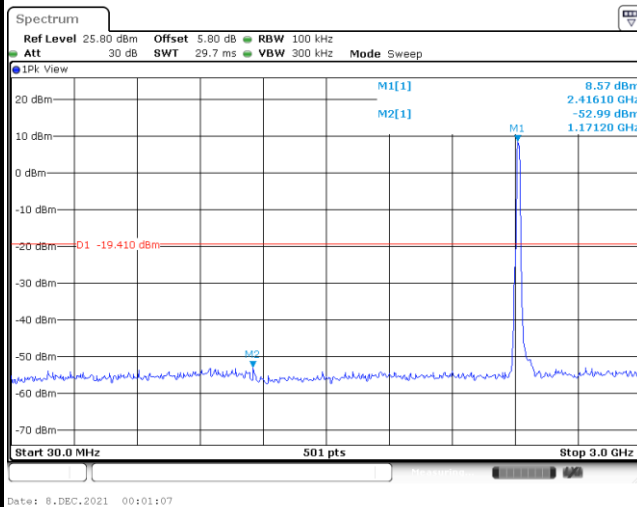
100kHz PSD reference Level



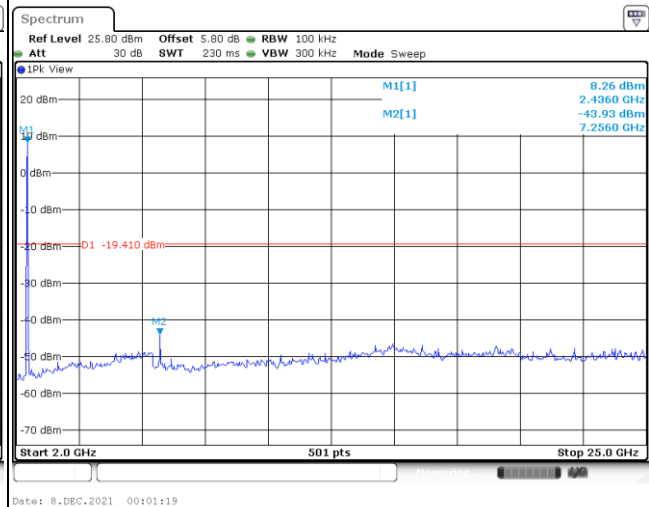
Channel Plot



Spurious Emission 30MHz~3GHz



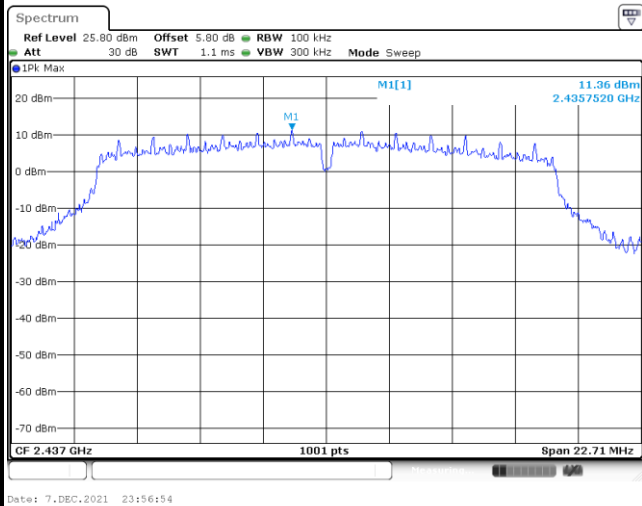
Spurious Emission 2GHz~25GHz



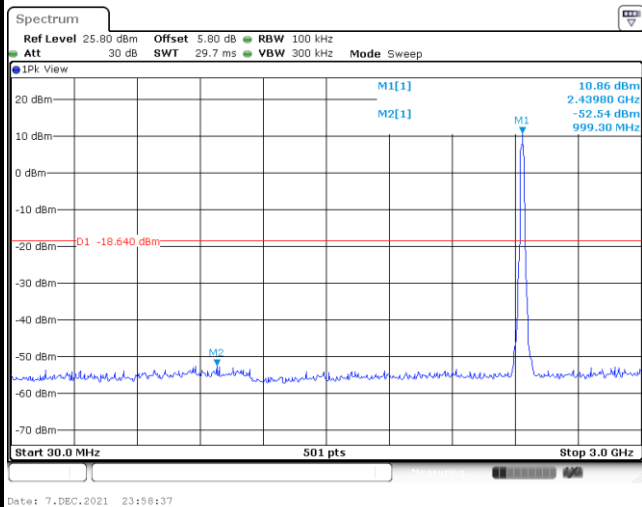


Test Mode :	802.11g	Test Channel :	06
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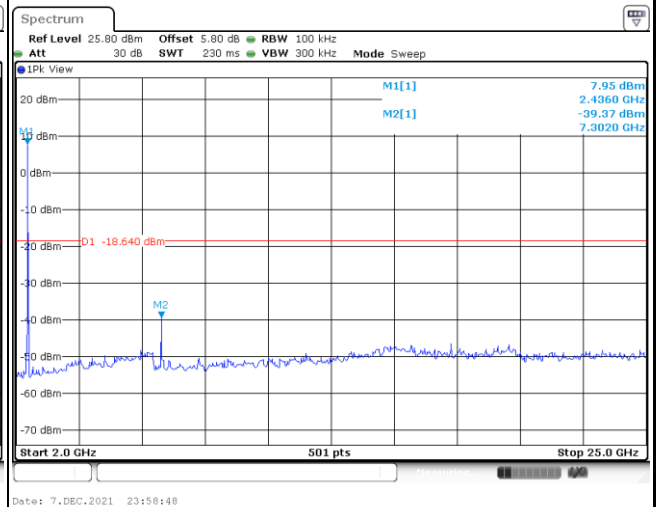
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz



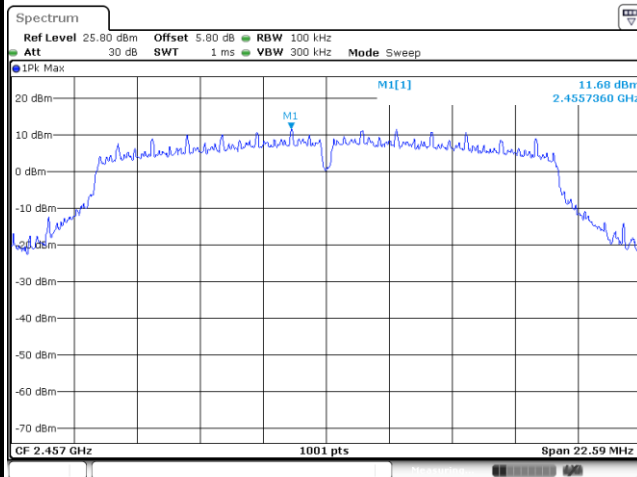
Spurious Emission 2GHz~25GHz



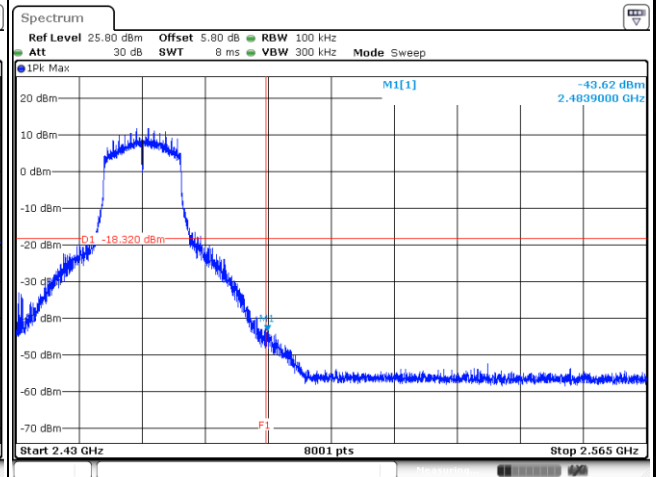


Test Mode :	802.11g	Test Channel :	10
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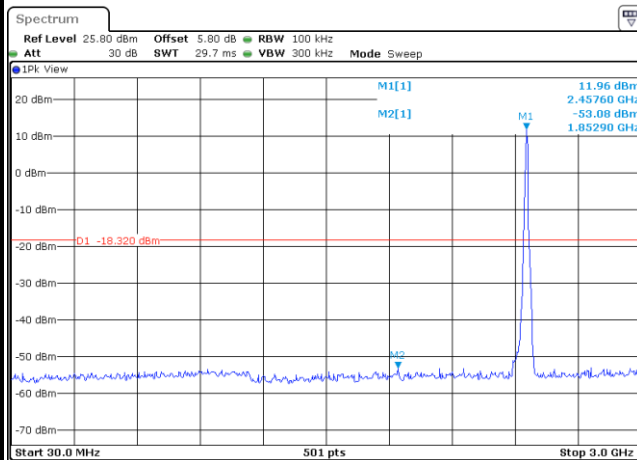
100kHz PSD reference Level



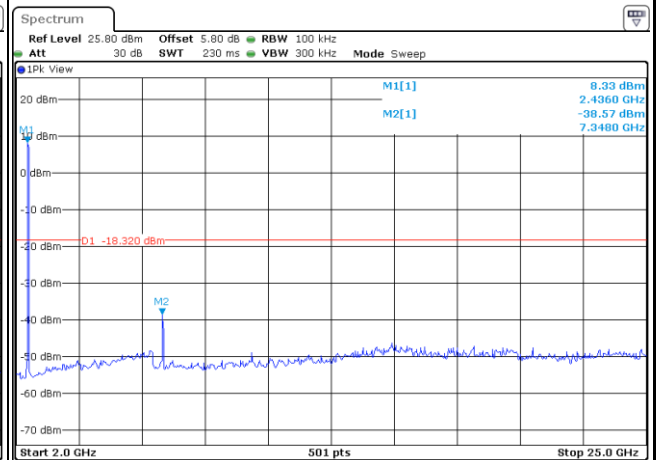
Channel Plot



Spurious Emission 30MHz~3GHz



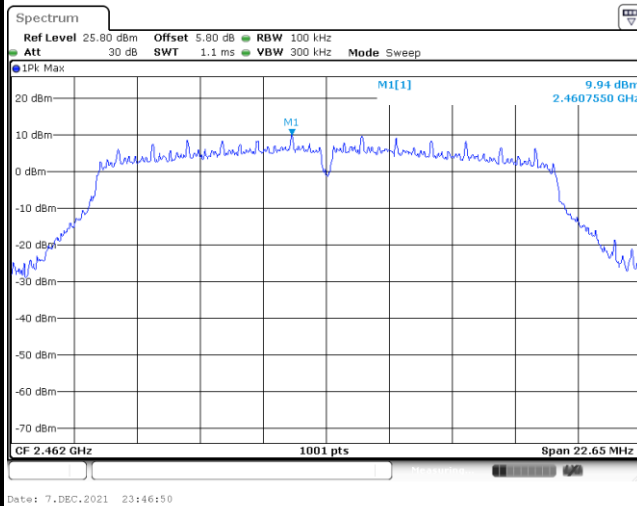
Spurious Emission 2GHz~25GHz



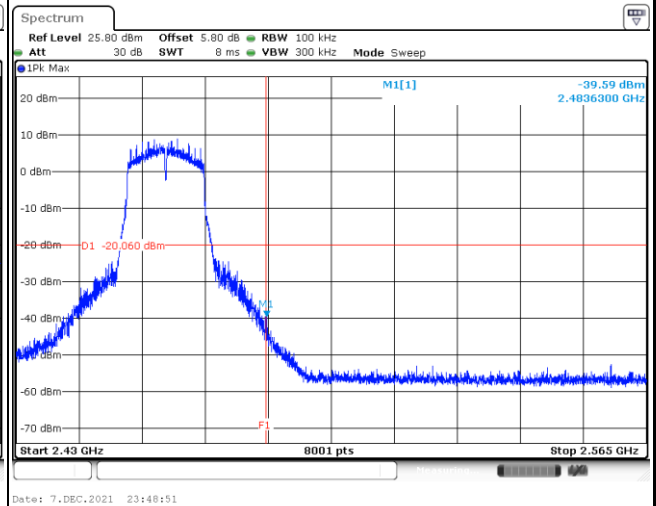


Test Mode :	802.11g	Test Channel :	11
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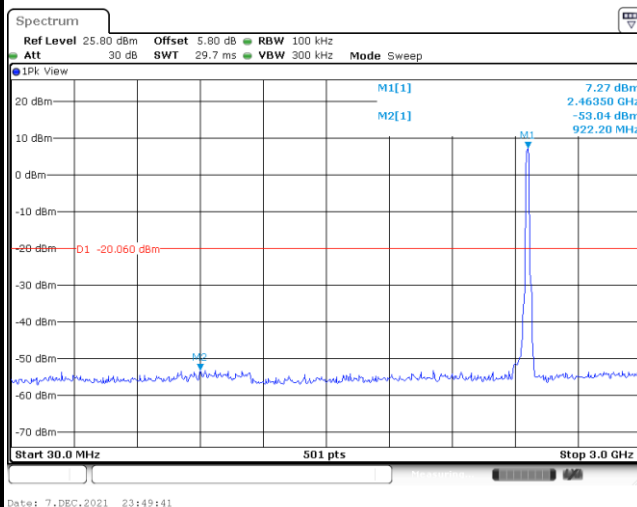
100kHz PSD reference Level



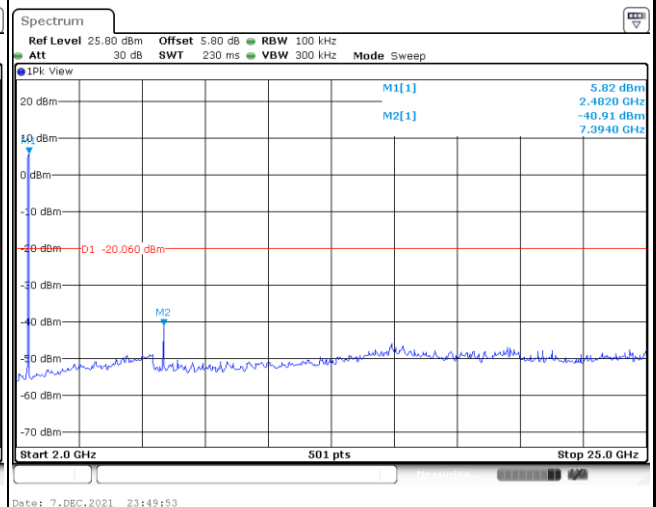
Channel Plot



Spurious Emission 30MHz~3GHz

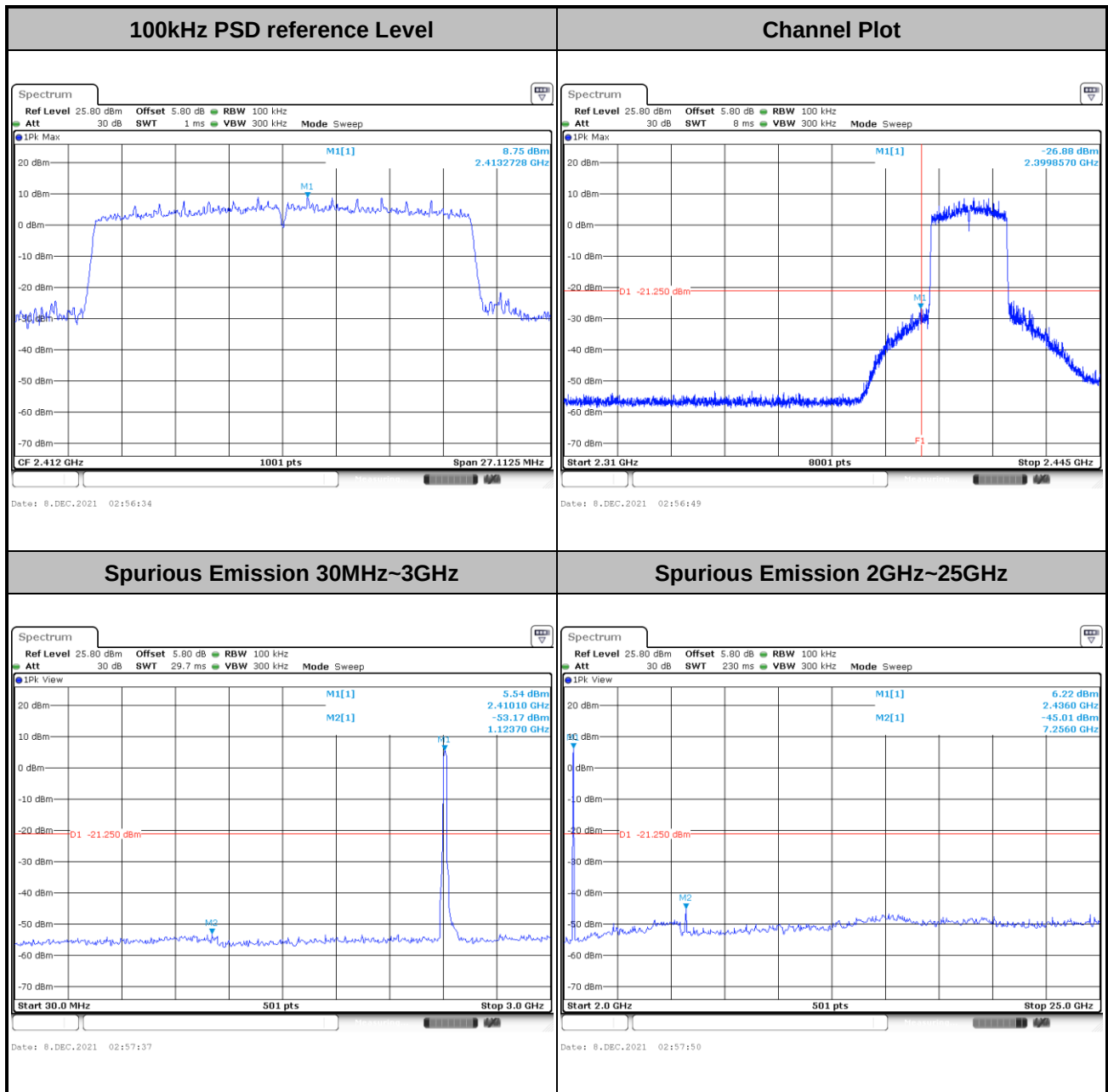


Spurious Emission 2GHz~25GHz

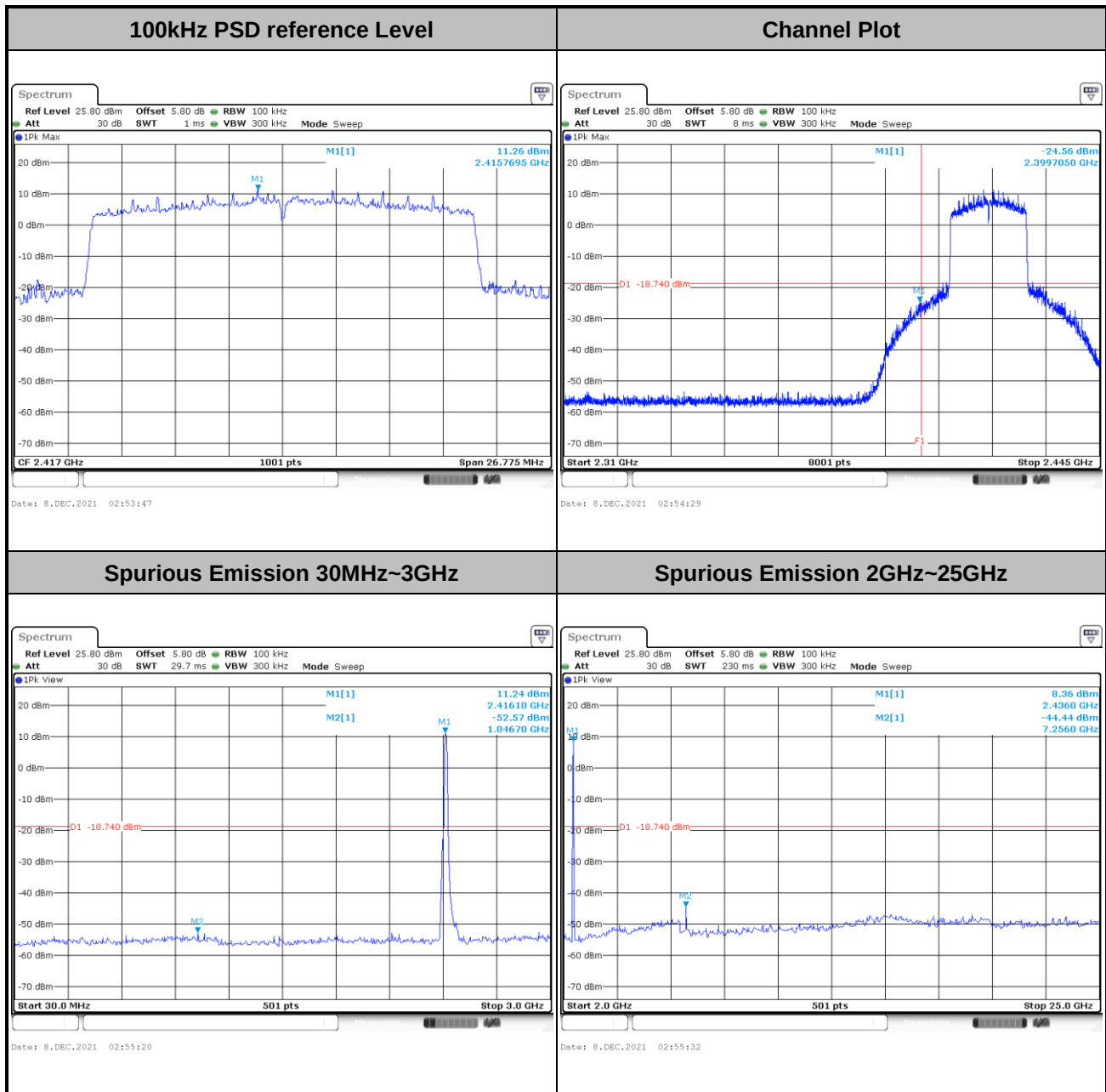




Test Mode :	802.11ax HE20	Test Channel :	01
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Test Mode :	802.11ax HE20	Test Channel :	02
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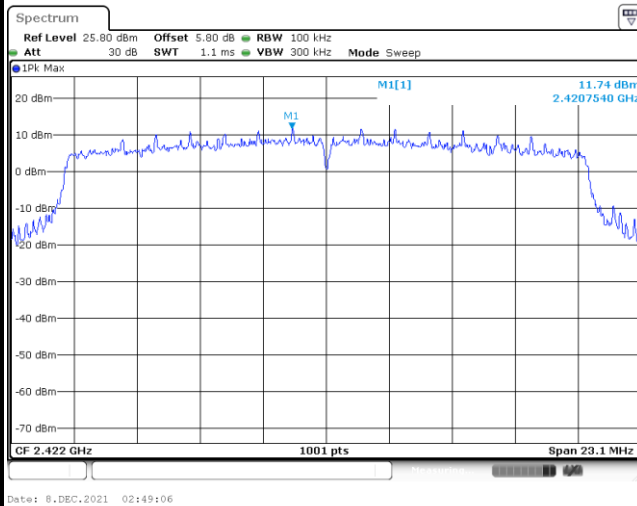




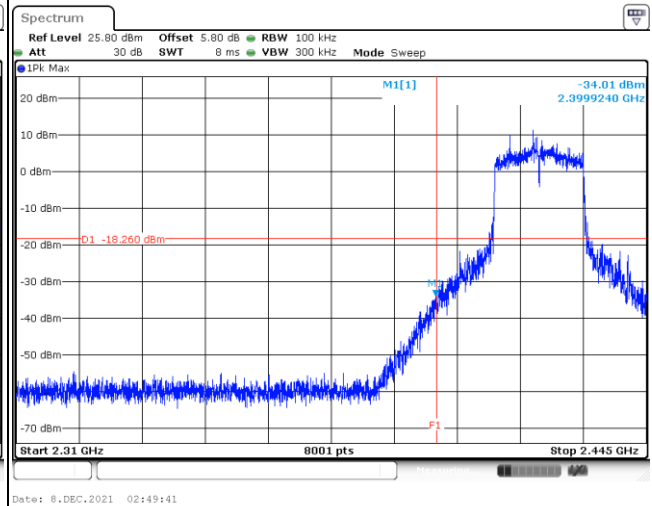
Test Mode : 802.11ax HE20

Test Channel : 03

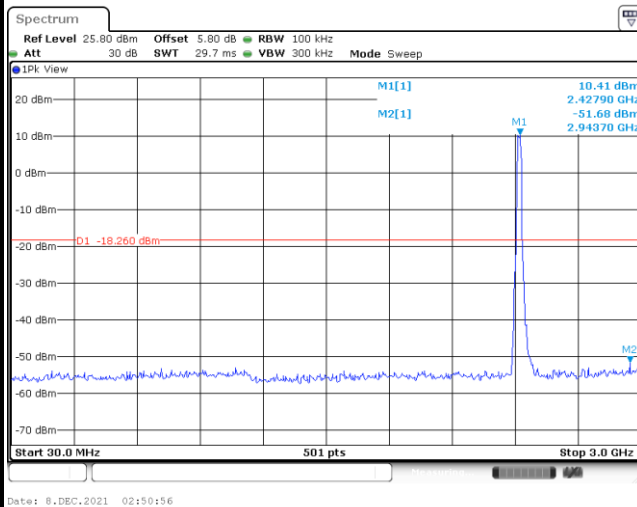
100kHz PSD reference Level



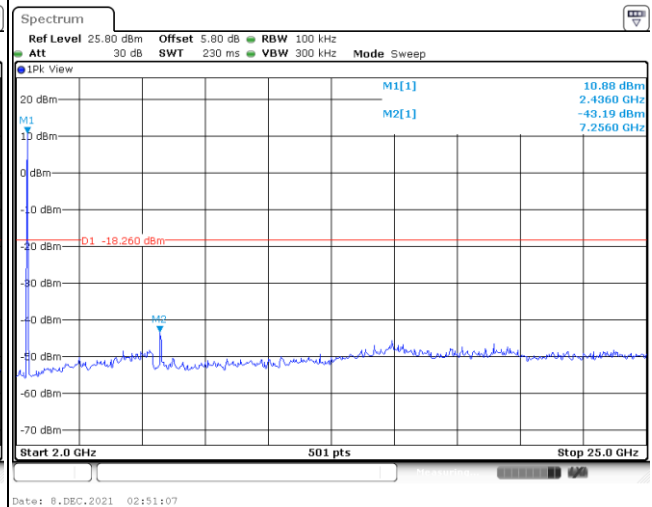
Channel Plot



Spurious Emission 30MHz~3GHz



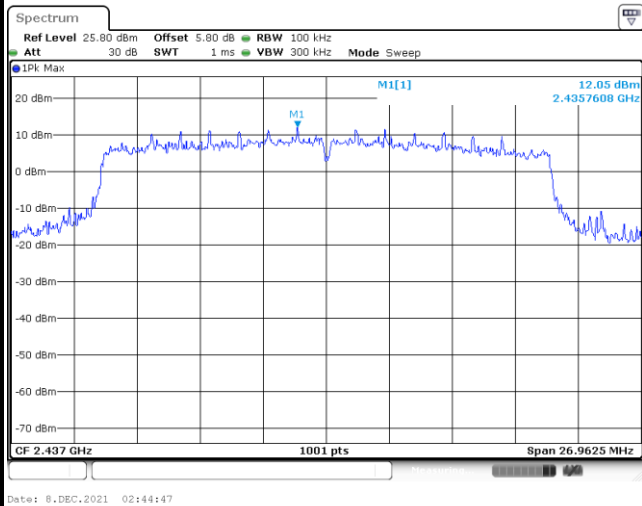
Spurious Emission 2GHz~25GHz



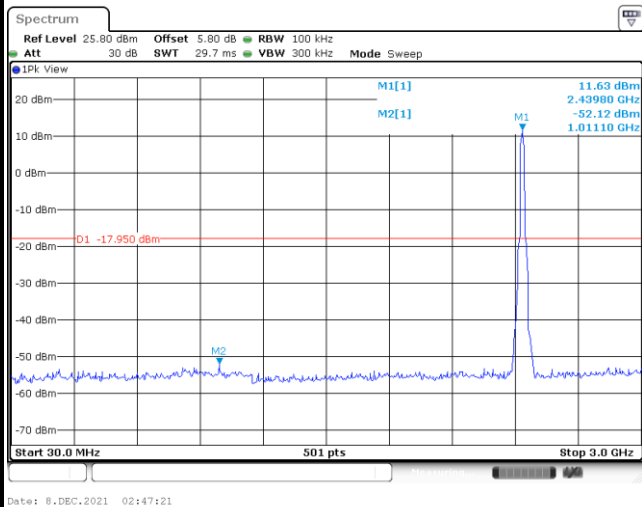


Test Mode :	802.11ax HE20	Test Channel :	06
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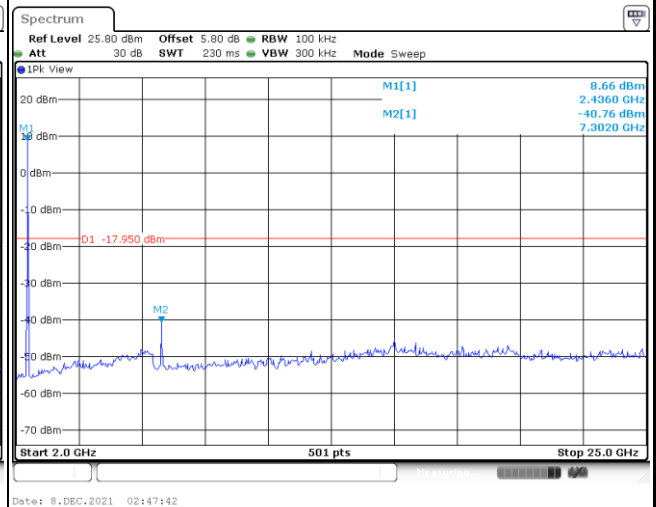
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

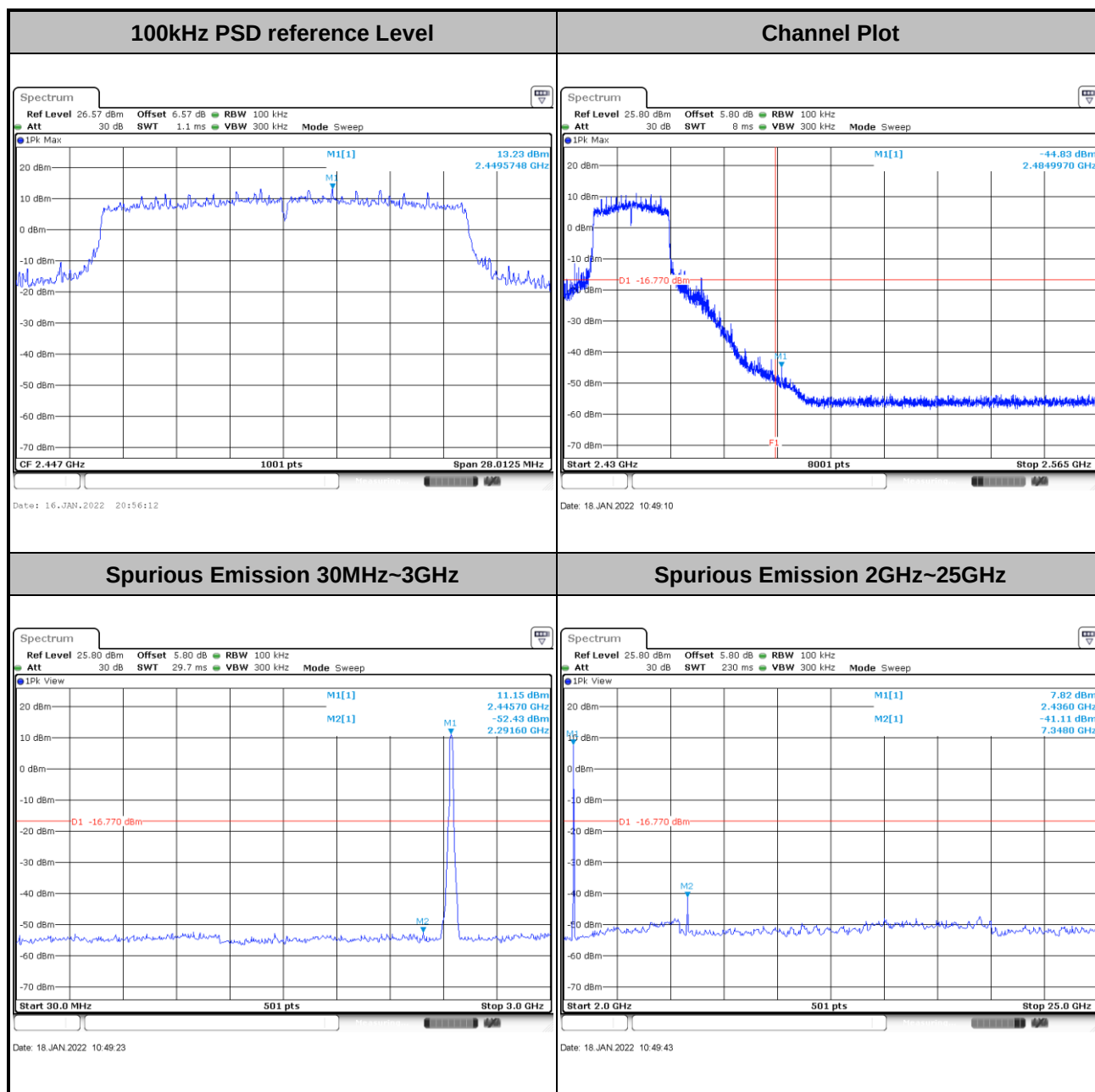


Spurious Emission 2GHz~25GHz





Test Mode :	802.11ax HE20	Test Channel :	08
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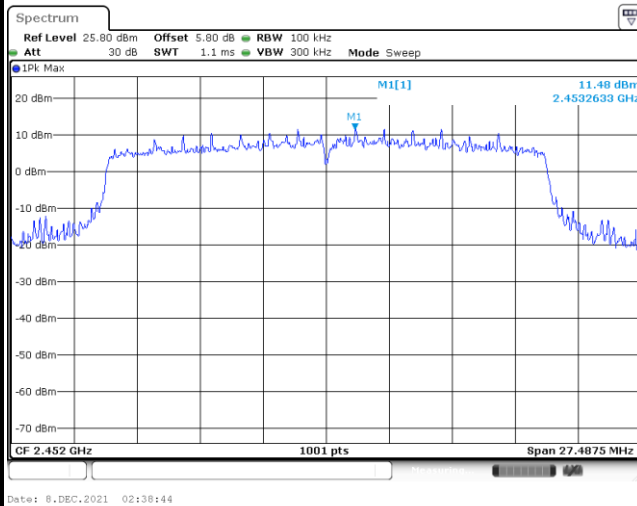




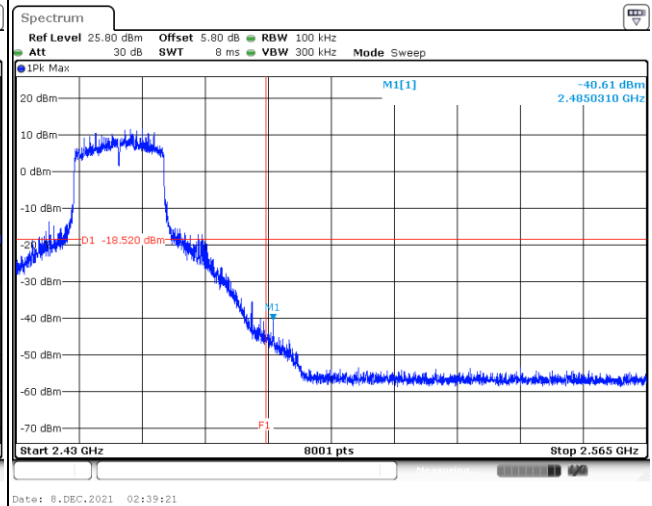
Test Mode : 802.11ax HE20

Test Channel : 09

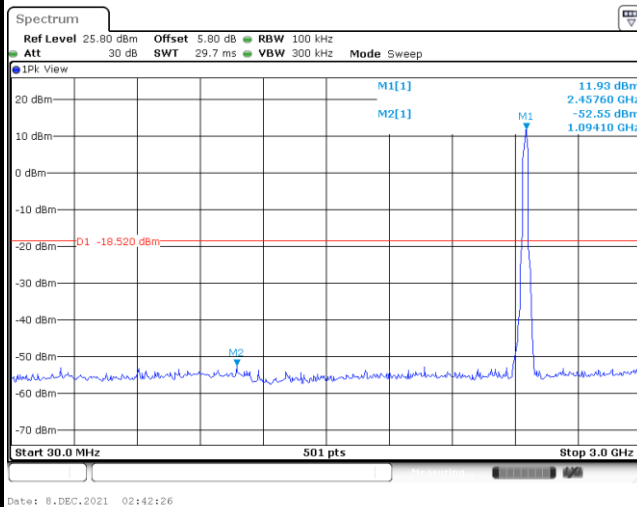
100kHz PSD reference Level



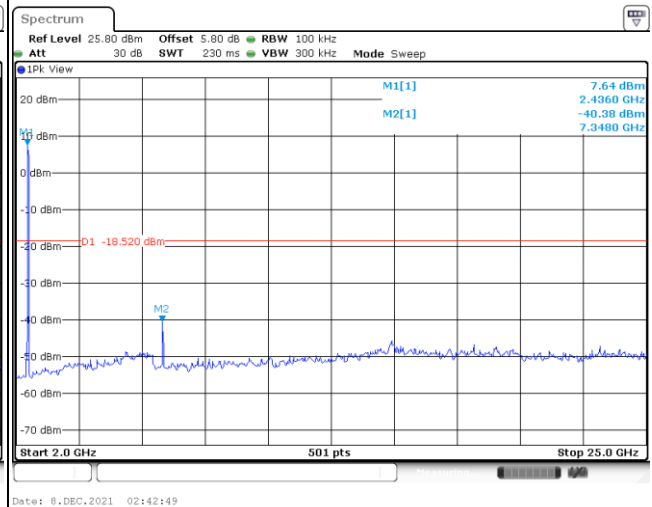
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

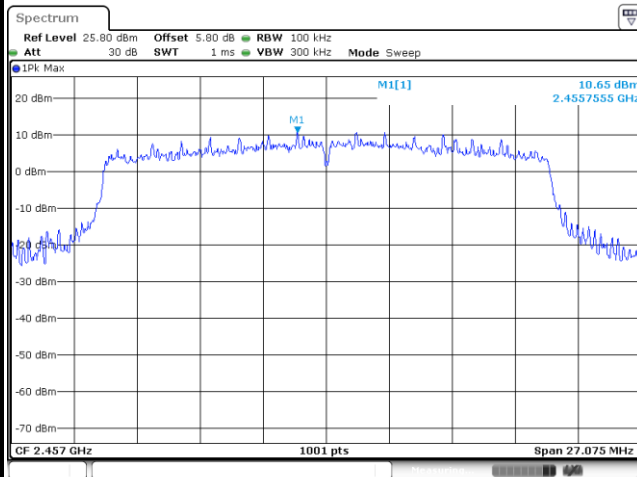




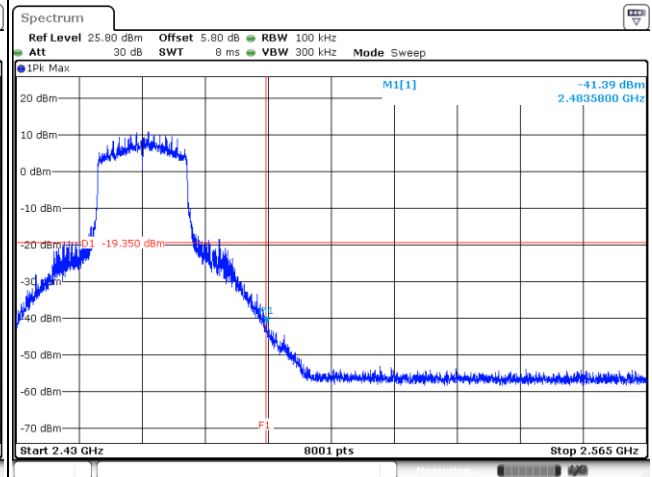
Test Mode : 802.11ax HE20

Test Channel : 10

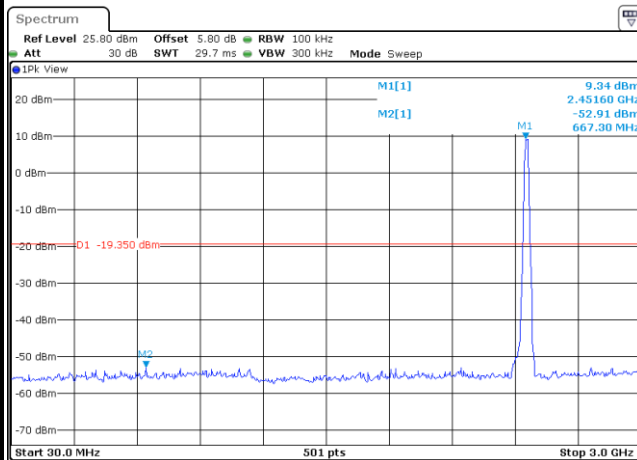
100kHz PSD reference Level



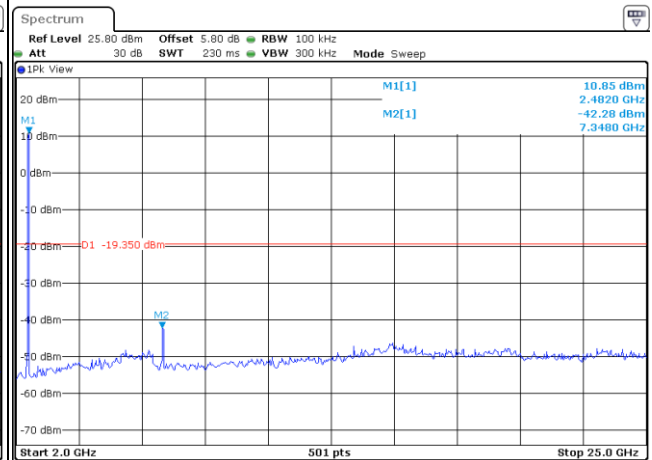
Channel Plot



Spurious Emission 30MHz~3GHz

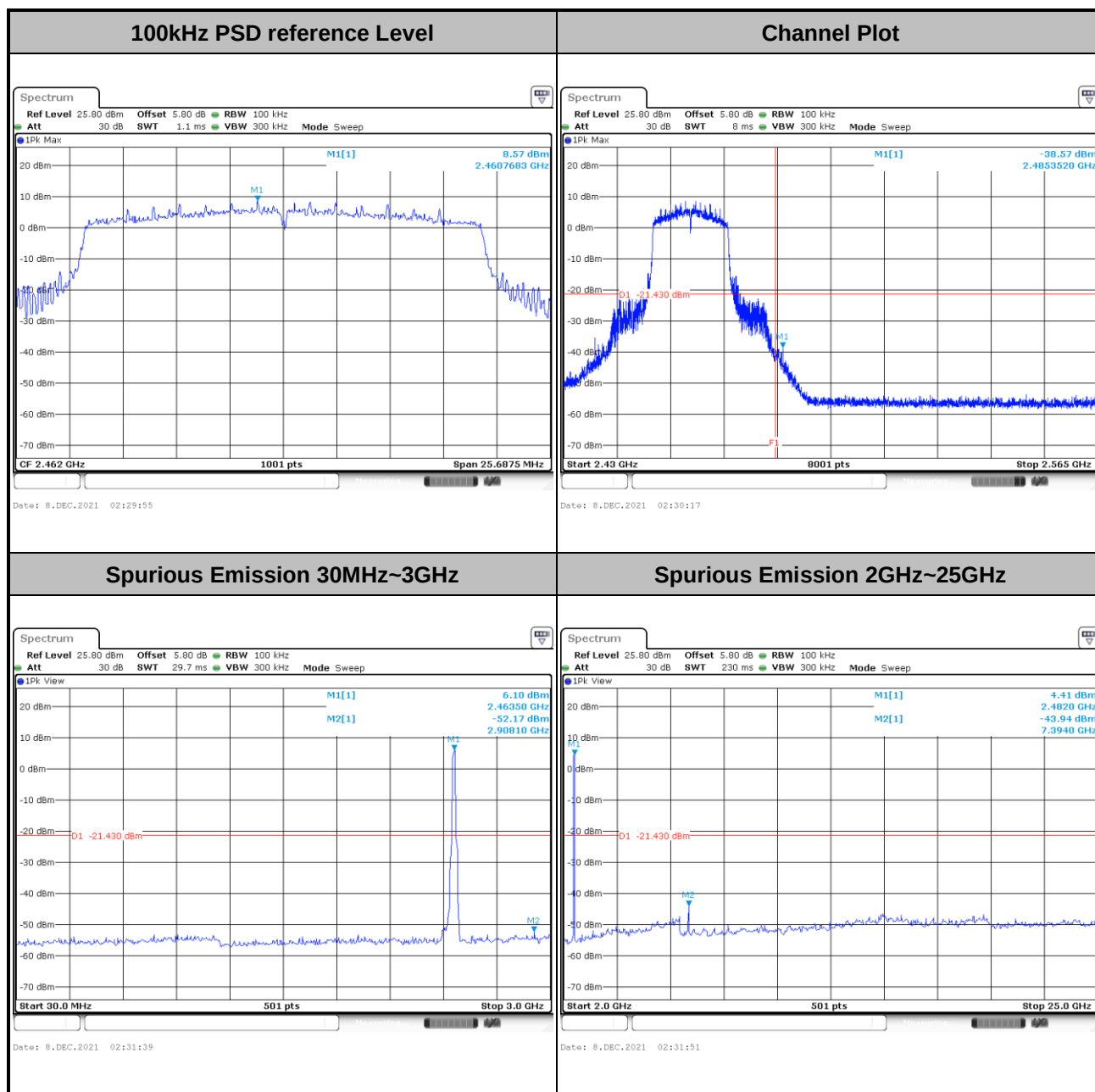


Spurious Emission 2GHz~25GHz



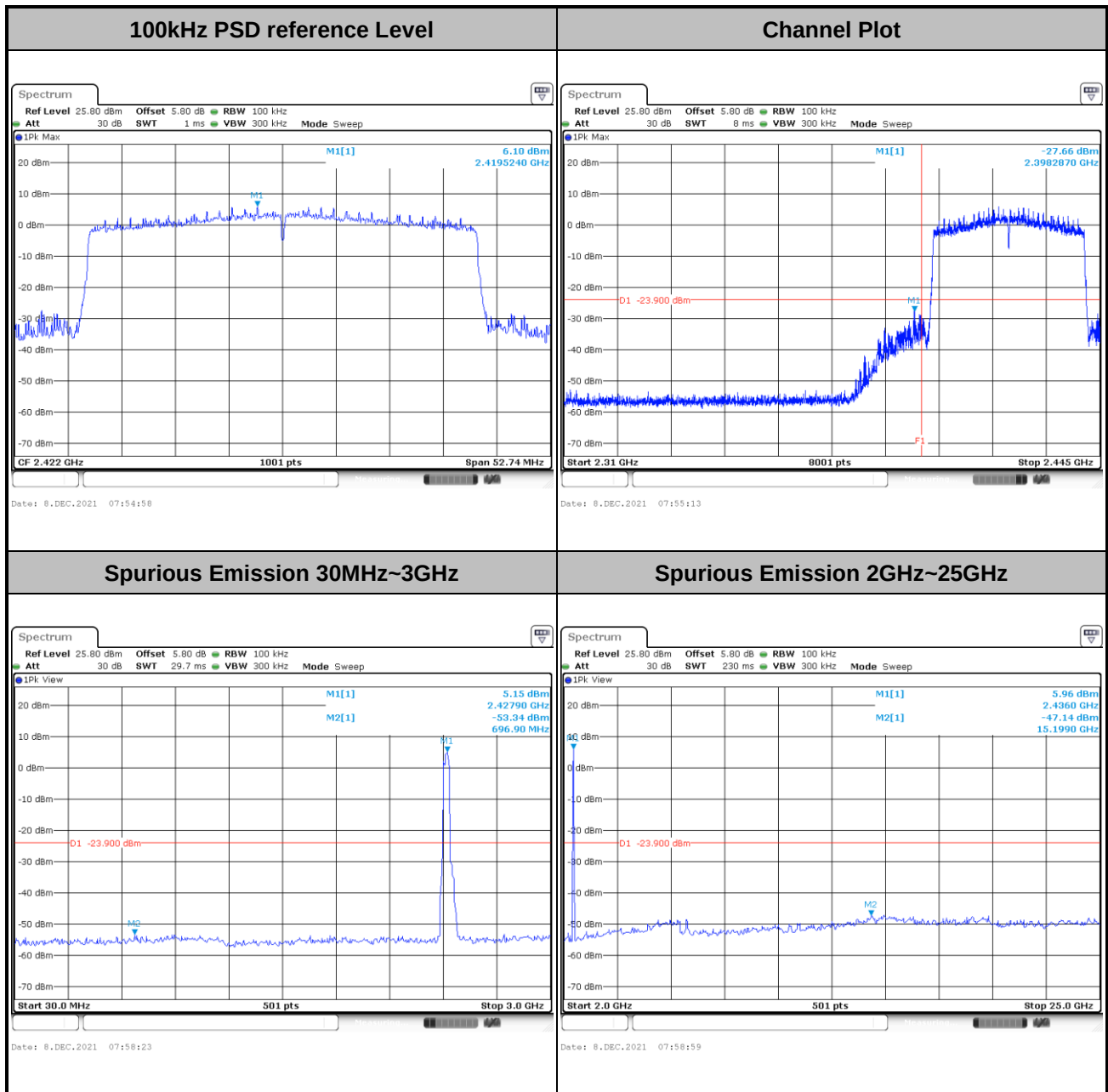


Test Mode :	802.11ax HE20	Test Channel :	11
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Test Mode :	802.11ax HE40	Test Channel :	03
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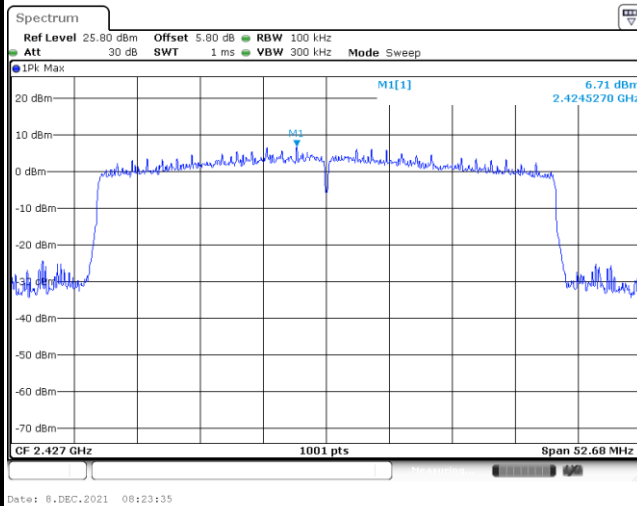




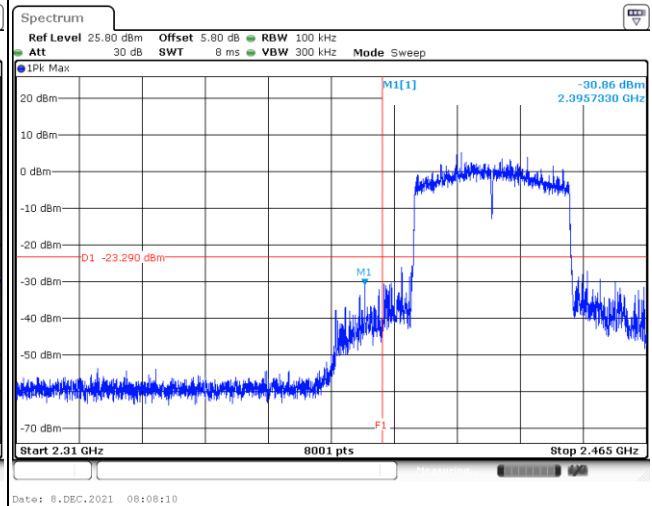
Test Mode : 802.11ax HE40

Test Channel : 04

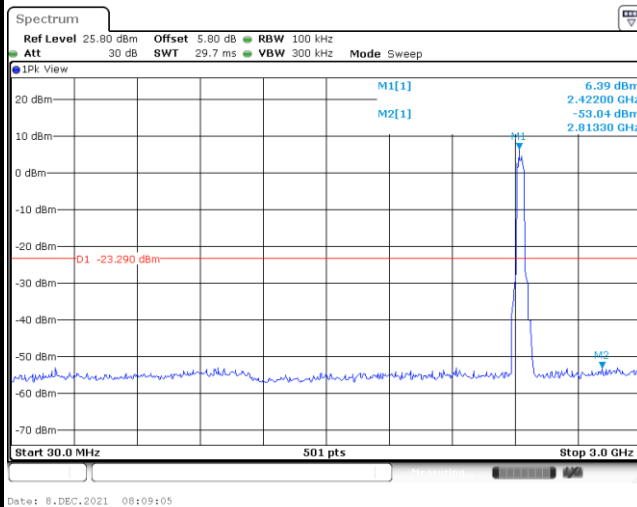
100kHz PSD reference Level



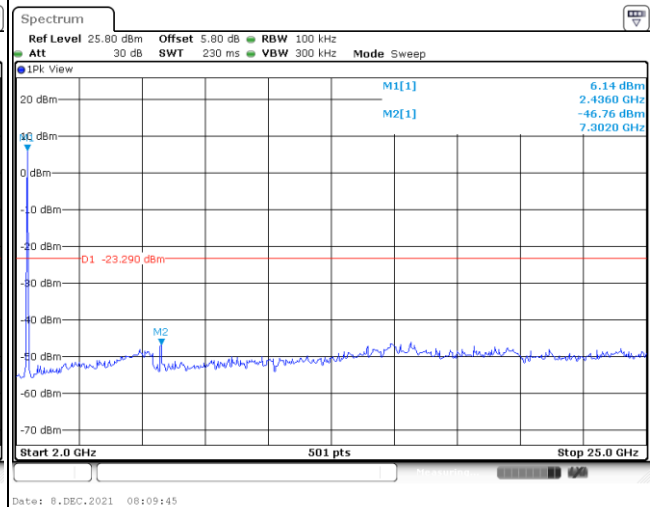
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

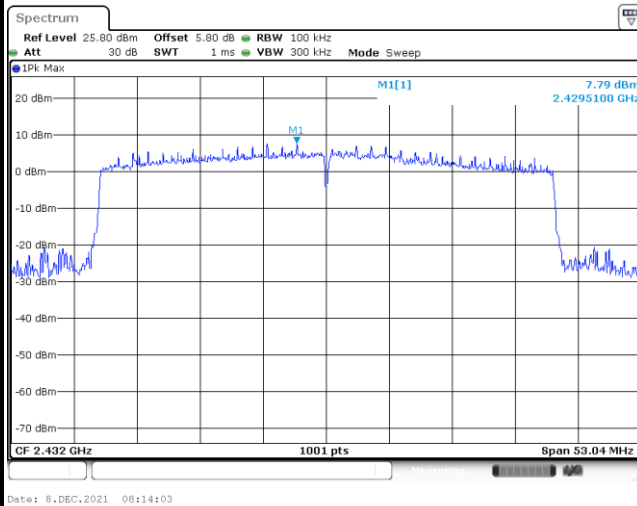




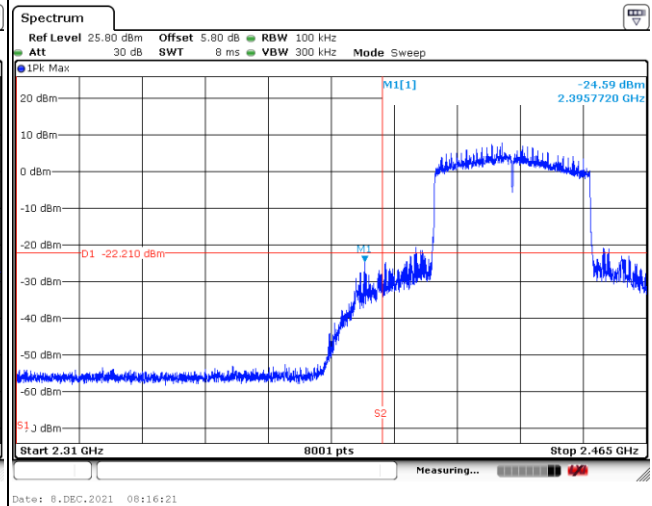
Test Mode : 802.11ax HE40

Test Channel : 05

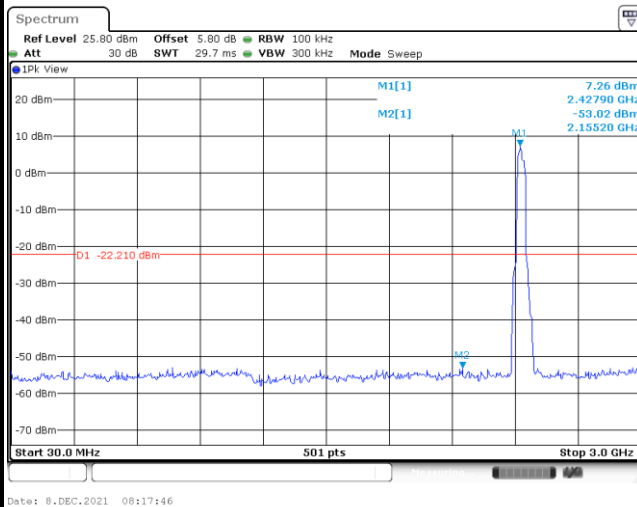
100kHz PSD reference Level



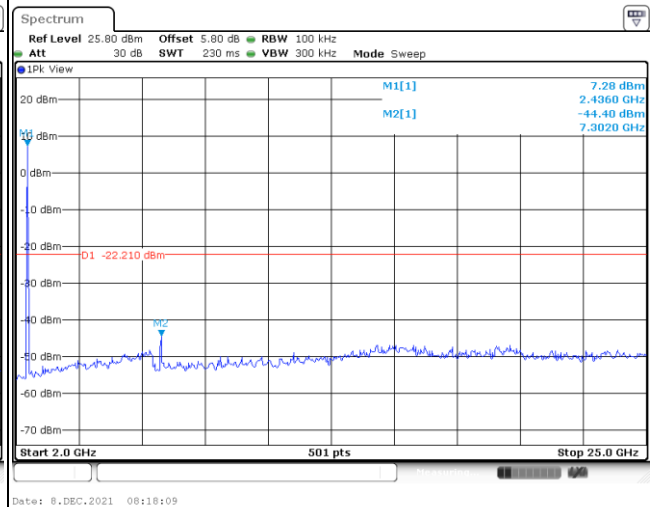
Channel Plot



Spurious Emission 30MHz~3GHz



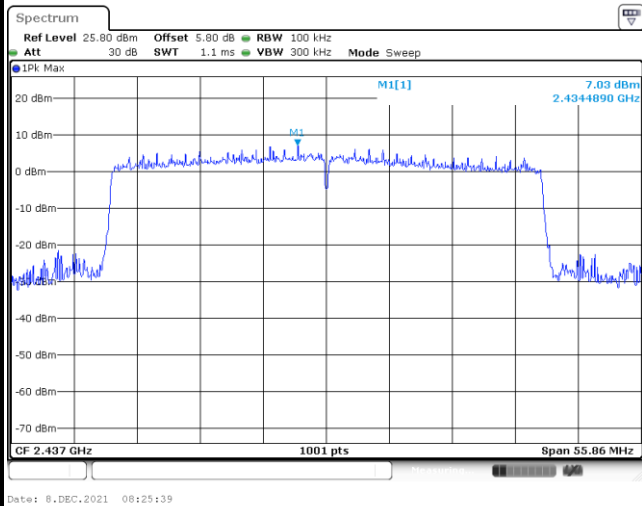
Spurious Emission 2GHz~25GHz



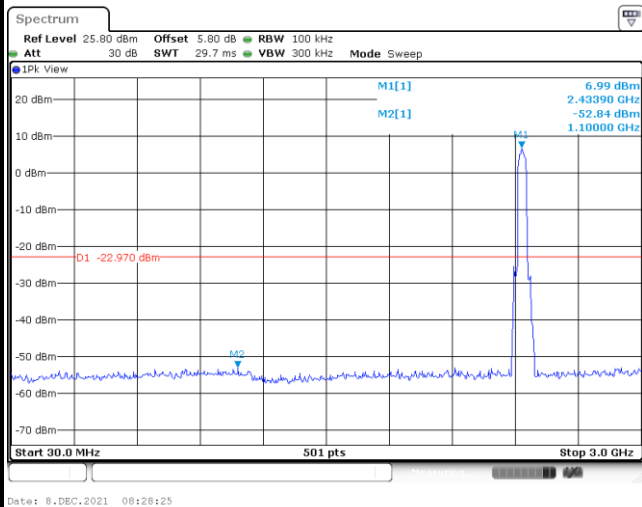


Test Mode :	802.11ax HE40	Test Channel :	06
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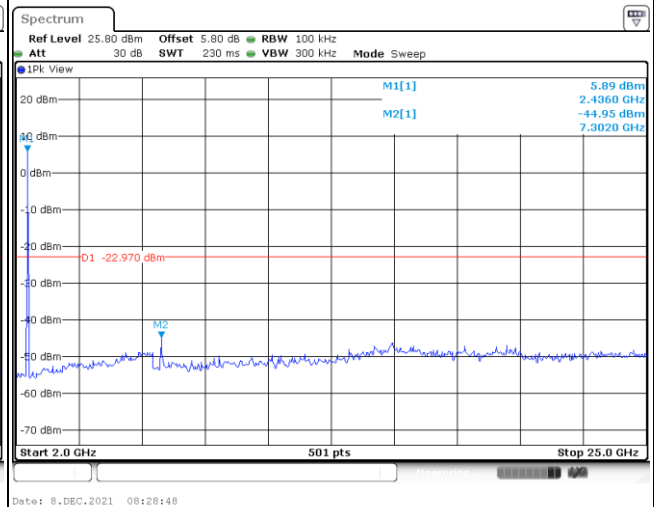
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

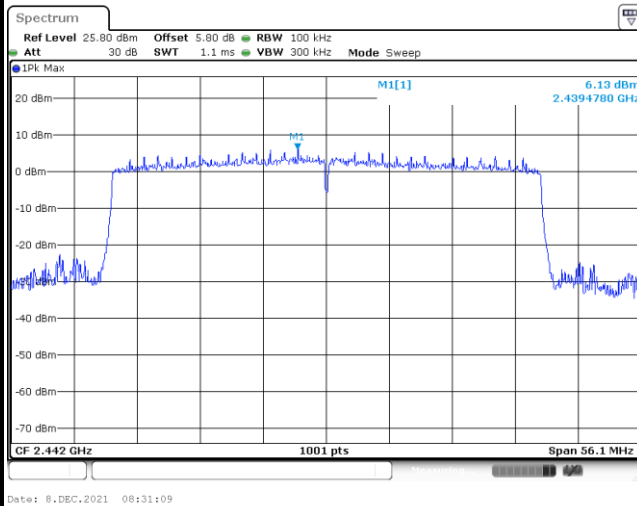




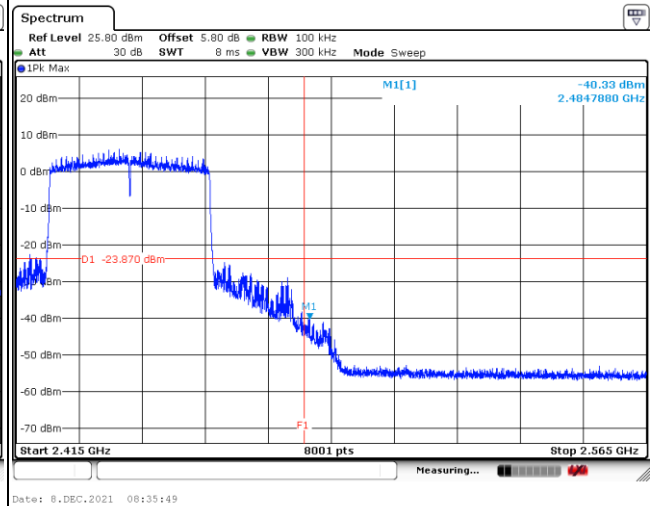
Test Mode : 802.11ax HE40

Test Channel : 07

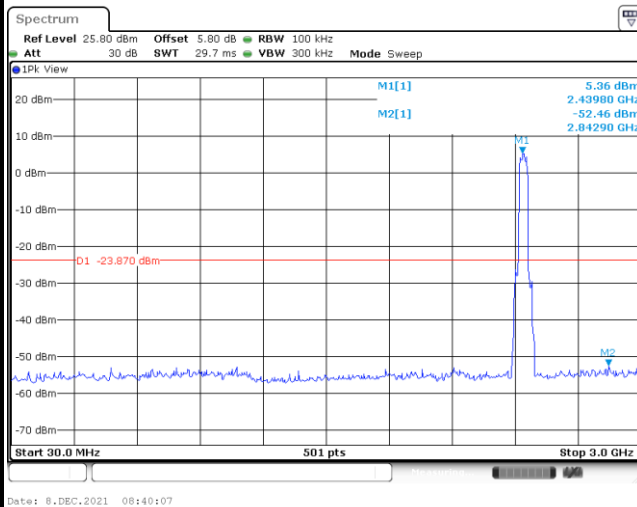
100kHz PSD reference Level



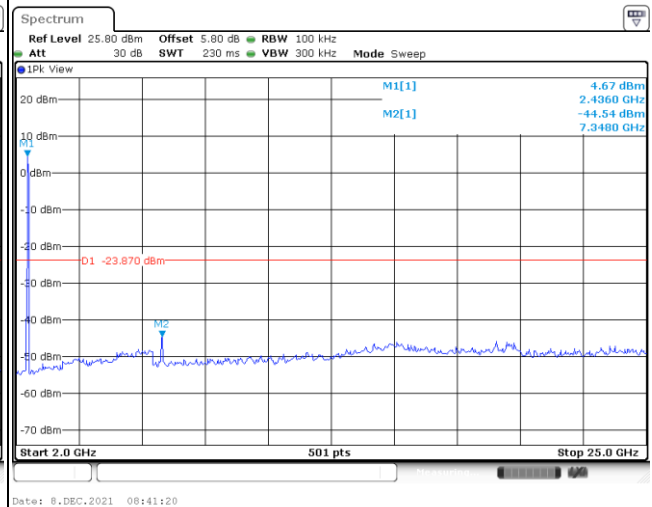
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

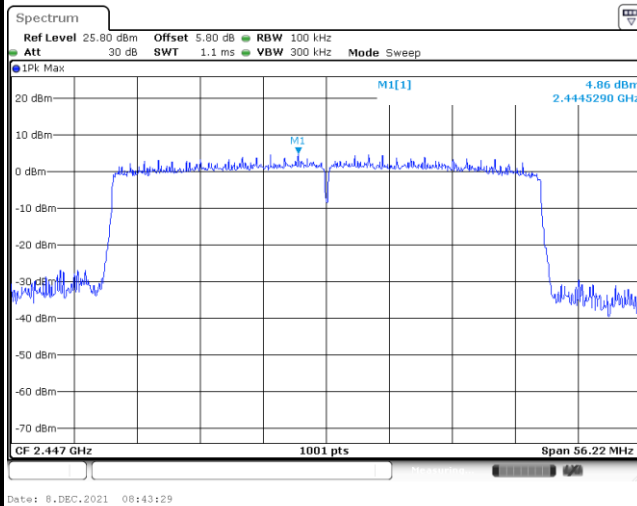




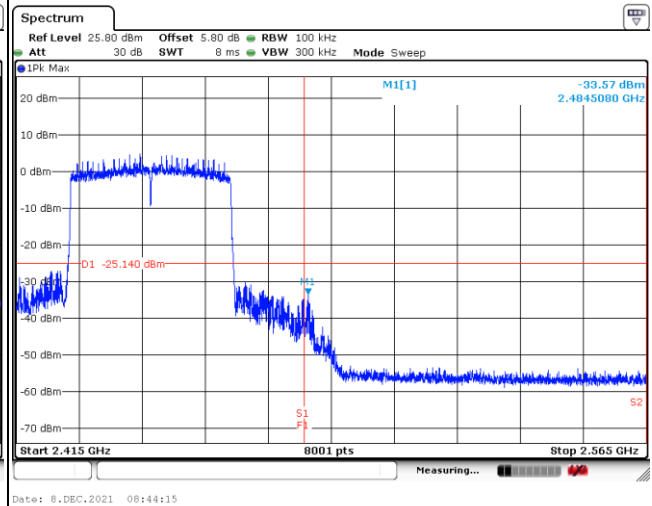
Test Mode : 802.11ax HE40

Test Channel : 08

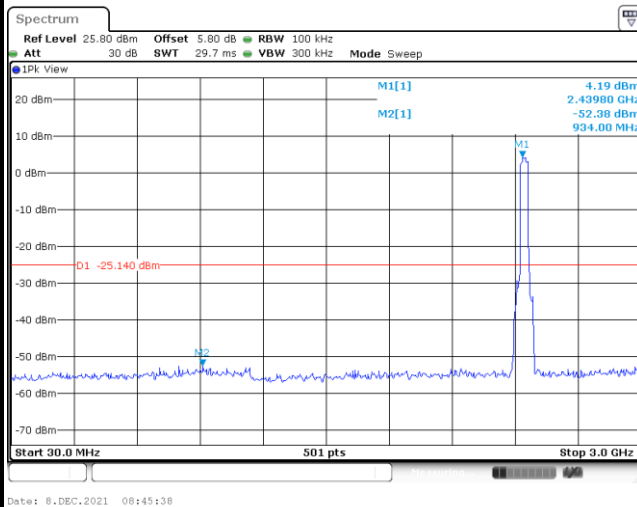
100kHz PSD reference Level



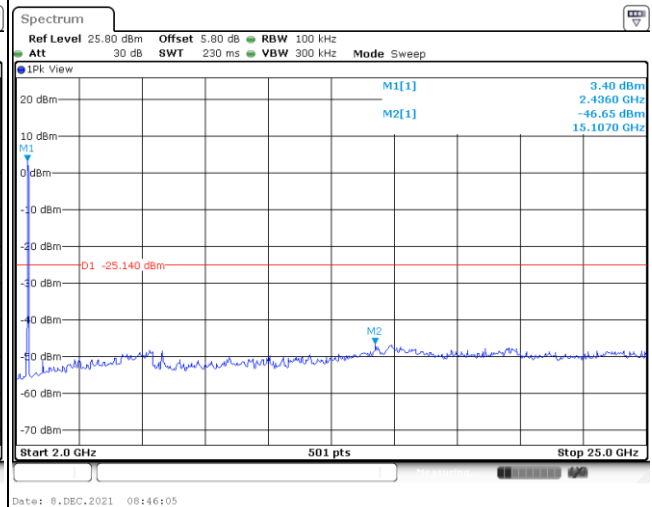
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

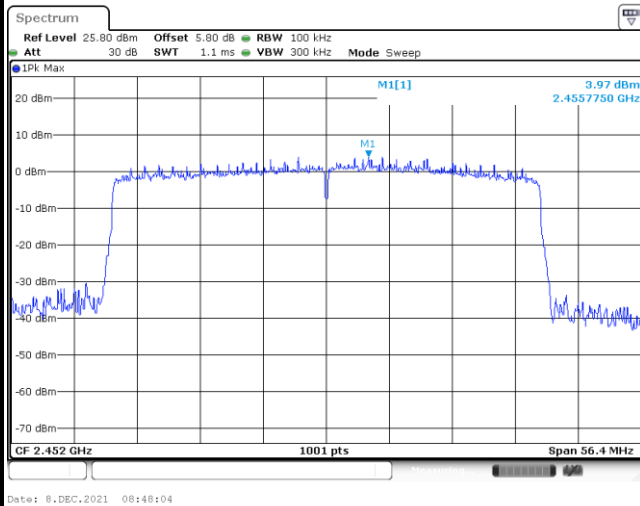




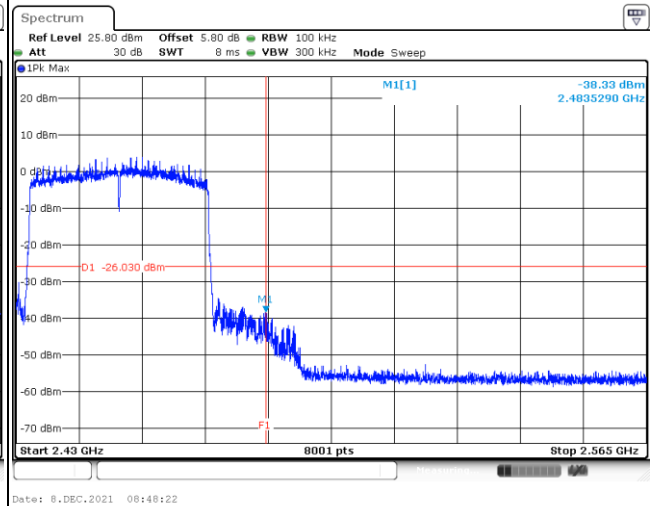
Test Mode : 802.11ax HE40

Test Channel : 09

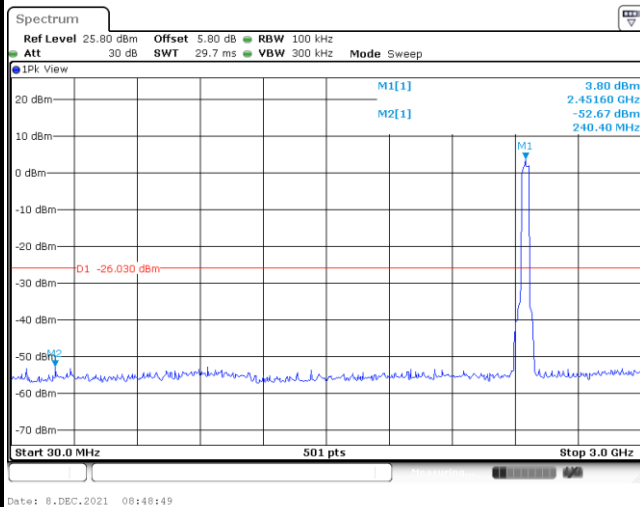
100kHz PSD reference Level



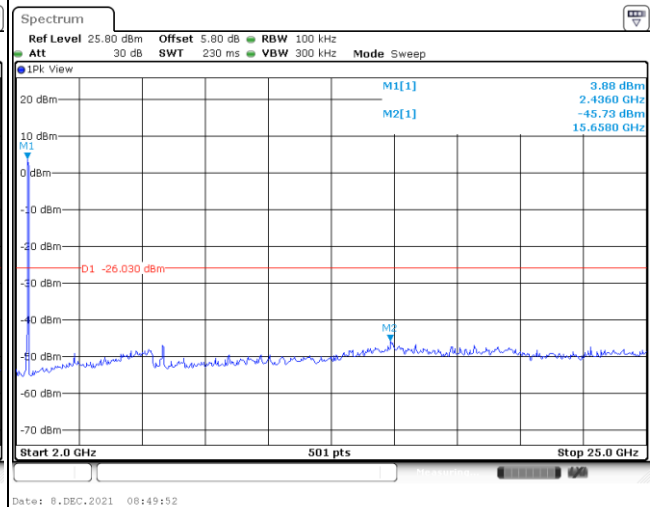
Channel Plot



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:

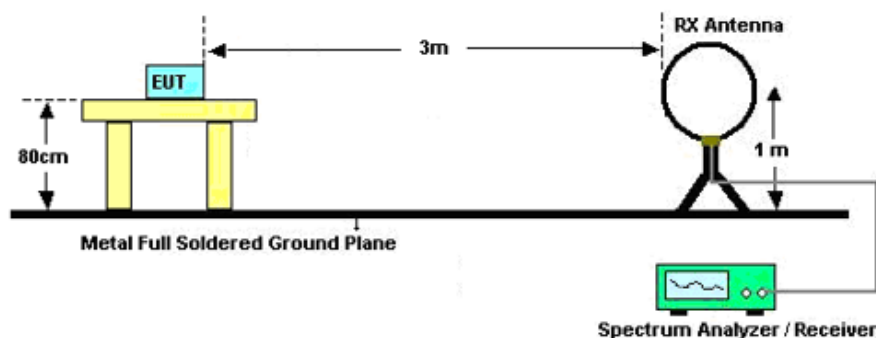
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
- (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

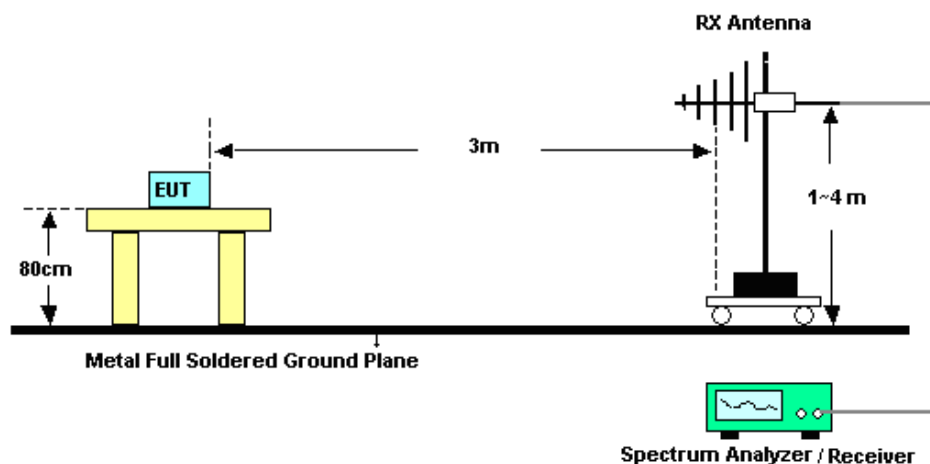
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

For radiated emissions below 30MHz

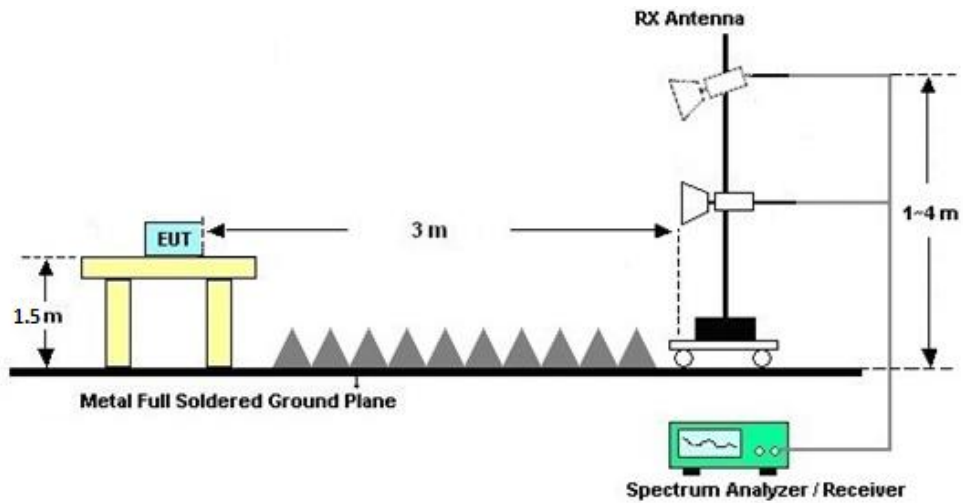


For radiated emissions from 30MHz to 1GHz

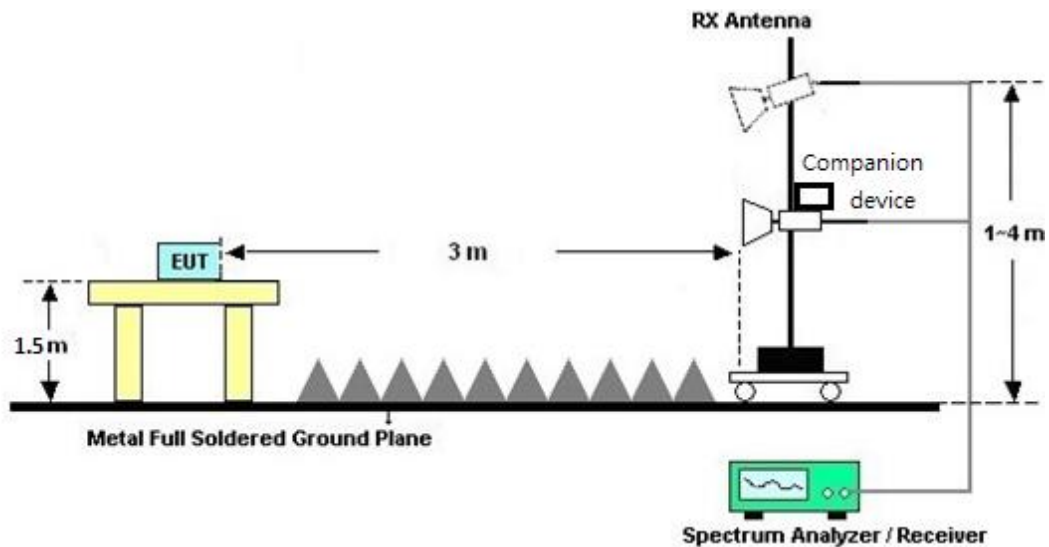


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>



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&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

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.

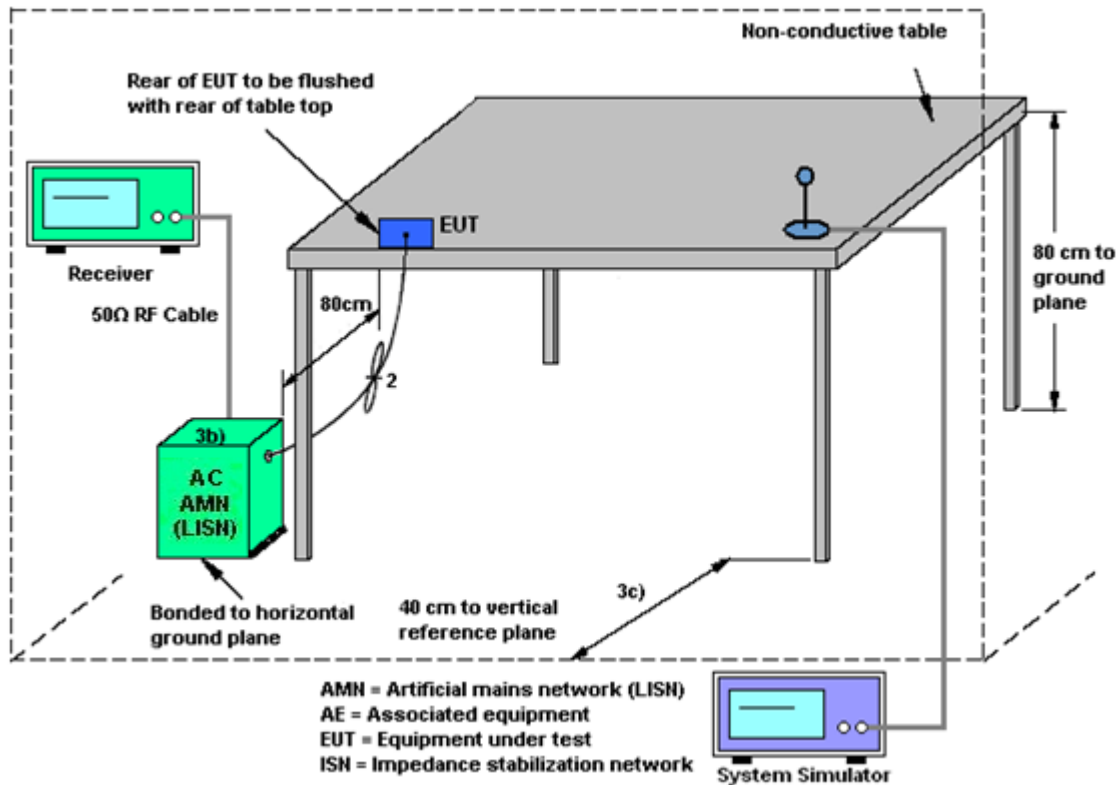
3.6.2 Measuring Instruments

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

Frequency (MHz)	BW	Sub Frequency & CH		Frequency Range	Max TX Antenna gain (dBi)				TX Antenna gain (dBi) (The angle at which DG gain is the largest)				CDD (dBi)		Beamforming (dBi)		Beamforming Limit (dBm)		CDD Limit (dBm)	
					ANT1	ANT2	ANT3	ANT4	ANT1	ANT2	ANT3	ANT4	For Power	For PSD	For Power	For PSD	For Power	For PSD	For Power	For PSD
2400 ~ 2483.5	20M	1	2412	2402~2422	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		2	2417	2407~2427	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		3	2422	2412~2432	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		4	2427	2417~2437	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		5	2432	2422~2442	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		6	2437	2427~2447	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		7	2442	2432~2452	3.19	2.73	2.45	2.10	-1.49	0.32	1.81	0.82	3.19	6.47	6.47	6.47	29.53	7.53	30.00	7.53
		8	2447	2437~2457	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		9	2452	2442~2462	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		10	2457	2447~2467	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		11	2462	2452~2472	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
	40M	3	2422	2402~2442	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		4	2427	2407~2447	3.10	2.37	2.34	3.20	-3.84	0.81	1.65	1.74	3.20	6.39	6.39	6.39	29.61	7.61	30.00	7.61
		5	2432	2412~2452	3.19	2.73	2.45	2.10	-1.49	0.32	1.81	0.82	3.19	6.47	6.47	6.47	29.53	7.53	30.00	7.53
		6	2437	2417~2457	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		7	2442	2422~2462	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		8	2447	2427~2467	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51
		9	2452	2432~2472	3.42	3.18	2.92	1.71	1.84	1.01	-0.05	-1.21	3.42	6.49	6.49	6.49	29.51	7.51	30.00	7.51

Note:

1. TX Antenna gain (dBi) is the angle at which DG gain is the largest, the directional gain of CDD for PSD and Beamforming for Power/PSD is calculated using the TX Antenna gain in the table.
2. 802.11b/g antenna gain is the same as 11n20.
3. 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 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 GANT set equal to the gain of the antenna having the highest gain(Max TX Antenna gain in table);

For power spectral density (PSD) measurements on the devices:

The directional gain = $10 \cdot \log[(10^{G_{ant1}/20} + 10^{G_{ant2}/20} + 10^{G_{ant3}/20} + 10^{G_{ant4}/20})^2 / 4]$ dBi.

For Beamforming transmissions, directional gain for power and PSD is calculated as:

The directional gain = $10 \cdot \log[(10^{G_{ant1}/20} + 10^{G_{ant2}/20} + 10^{G_{ant3}/20} + 10^{G_{ant4}/20})^2 / 4]$ dBi.

For CDD and Beamforming:

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Nov. 30, 2021~ Jan. 18, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Nov. 30, 2021~ Jan. 18, 2022	Jan. 06, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 06, 2022		Jan. 05, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Nov. 30, 2021~ Jan. 18, 2022	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 06, 2022		Jan. 05, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz; Max 30dBm	Jul. 12, 2021	Dec. 28, 2021	Jul. 11, 2022	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz, MAX 30dB	Apr. 13, 2021	Dec. 28, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 28, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 30, 2021	Dec. 28, 2021	May 29, 2022	Radiation (03CH05-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Dec. 28, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Dec. 28, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz~3000MHz	Nov. 01, 2021	Dec. 28, 2021	Oct. 31, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Dec. 28, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Dec. 28, 2021	Jan.05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 12, 2021	Dec. 28, 2021	Oct. 11, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 28, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 28, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 28, 2021	NCR	Radiation (03CH04-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Dec. 06, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Dec. 06, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 14, 2021	Dec. 06, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Dec. 06, 2021	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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----- THE END -----



Appendix A. Conducted Test Results

Report Number : FR1O2908A

Test Engineer:	Long Wu	Temperature:	21~25	°C
Test Date:	2021/11/30~2022/1/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)				6dB BW (MHz)				6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4		
11b	1Mbps	4	1	2412	12.94	12.89	12.94	12.89	8.06	8.04	8.06	7.56	0.50	Pass
11b	1Mbps	4	6	2437	12.89	12.89	12.89	12.94	8.06	7.58	8.06	8.56	0.50	Pass
11b	1Mbps	4	11	2462	12.74	12.79	12.69	12.79	8.04	8.06	7.58	8.06	0.50	Pass
11g	6Mbps	4	1	2412	17.78	17.58	17.58	17.43	15.34	15.46	15.74	15.14	0.50	Pass
11g	6Mbps	4	2	2417	17.73	17.48	17.58	17.38	15.12	15.10	15.08	15.04	0.50	Pass
11g	6Mbps	4	6	2437	17.88	17.73	17.78	17.63	15.46	15.12	15.12	15.14	0.50	Pass
11g	6Mbps	4	10	2457	17.83	17.53	17.63	17.48	15.06	15.12	14.46	15.06	0.50	Pass
11g	6Mbps	4	11	2462	17.53	17.43	17.28	17.28	15.10	15.14	14.06	15.10	0.50	Pass
HE20	MCS0	4	1	2412	19.28	19.23	19.23	19.28	18.20	18.65	18.53	18.08	0.50	Pass
HE20	MCS0	4	2	2417	19.33	19.28	19.33	19.28	18.45	17.95	17.05	17.85	0.50	Pass
HE20	MCS0	4	3	2422	20.13	19.78	19.88	19.78	17.93	15.88	16.55	15.40	0.50	Pass
HE20	MCS0	4	6	2437	20.28	20.18	20.18	20.18	18.30	18.73	18.33	17.98	0.50	Pass
HE20	MCS0	4	8	2447	20.23	20.13	20.53	20.33	18.92	18.86	18.92	18.68	0.50	Pass
HE20	MCS0	4	9	2452	20.33	20.23	20.43	20.08	18.35	18.33	18.43	18.33	0.50	Pass
HE20	MCS0	4	10	2457	19.83	19.78	19.78	19.73	17.25	17.73	17.55	18.05	0.50	Pass
HE20	MCS0	4	11	2462	19.78	19.68	19.68	19.68	18.20	17.90	16.53	17.13	0.50	Pass
HE40	MCS0	4	3	2422	37.66	37.66	37.66	37.66	35.88	35.52	35.40	35.16	0.50	Pass
HE40	MCS0	4	4	2427	37.56	37.66	37.66	37.66	36.04	35.32	35.12	35.12	0.50	Pass
HE40	MCS0	4	5	2432	37.76	37.96	37.86	37.76	35.12	35.08	35.12	35.36	0.50	Pass
HE40	MCS0	4	6	2437	37.76	37.86	37.86	38.06	36.40	35.16	35.16	37.24	0.50	Pass
HE40	MCS0	4	7	2442	37.96	37.96	37.96	37.96	36.88	36.20	37.16	37.40	0.50	Pass
HE40	MCS0	4	8	2447	37.86	37.76	37.86	37.86	36.40	35.92	37.72	37.48	0.50	Pass
HE40	MCS0	4	9	2452	37.76	37.76	37.76	37.86	36.44	35.88	36.56	37.60	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band														
Mod.	Data Rate	N	Tx CH.	Freq. (MHz)	Average Conducted Power (dBm)					Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant1	Ant2	Ant3	Ant4	SUM					
11b	1Mbps	4	1	2412	21.63	21.70	21.71	21.67	27.70	30.00	3.20	30.90	36.00	Pass
11b	1Mbps	4	6	2437	20.56	20.76	20.51	20.73	26.66	30.00	3.20	29.86	36.00	Pass
11b	1Mbps	4	11	2462	19.86	19.72	19.64	19.94	25.81	30.00	3.42	29.23	36.00	Pass
11g	6Mbps	4	1	2412	22.08	21.86	22.24	21.75	28.01	30.00	3.20	31.21	36.00	Pass
11g	6Mbps	4	2	2417	23.47	23.43	23.54	23.51	29.51	30.00	3.20	32.71	36.00	Pass
11g	6Mbps	4	6	2437	23.62	23.46	23.50	23.41	29.52	30.00	3.20	32.72	36.00	Pass
11g	6Mbps	4	10	2457	23.55	23.51	23.45	23.53	29.53	30.00	3.42	32.95	36.00	Pass
11g	6Mbps	4	11	2462	20.87	20.35	20.55	20.64	26.63	30.00	3.42	30.05	36.00	Pass
HT20	MCS0	4	1	2412	20.61	19.90	20.14	19.53	26.08	29.61	6.39	32.47	36.00	Pass
HT20	MCS0	4	2	2417	22.89	22.93	23.01	22.43	28.84	29.61	6.39	35.23	36.00	Pass
HT20	MCS0	4	3	2422	23.26	23.20	23.05	22.99	29.15	29.61	6.39	35.54	36.00	Pass
HT20	MCS0	4	6	2437	23.21	23.23	23.21	23.18	29.23	29.61	6.39	35.62	36.00	Pass
HT20	MCS0	4	8	2447	23.08	23.01	23.00	23.44	29.16	29.51	6.49	35.65	36.00	Pass
HT20	MCS0	4	9	2452	22.64	22.43	22.30	22.54	28.50	29.51	6.49	34.99	36.00	Pass
HT20	MCS0	4	10	2457	20.44	20.63	20.74	20.75	26.66	29.51	6.49	33.15	36.00	Pass
HT20	MCS0	4	11	2462	18.83	18.85	18.27	18.86	24.73	29.51	6.49	31.22	36.00	Pass
HT40	MCS0	4	3	2422	17.81	18.11	18.06	18.02	24.02	29.61	6.39	30.41	36.00	Pass
HT40	MCS0	4	4	2427	20.45	18.99	20.25	19.76	25.92	29.61	6.39	32.31	36.00	Pass
HT40	MCS0	4	5	2432	20.62	20.38	20.70	20.00	26.45	29.53	6.47	32.92	36.00	Pass
HT40	MCS0	4	6	2437	19.35	19.91	19.52	19.47	25.59	29.51	6.49	32.08	36.00	Pass
HT40	MCS0	4	7	2442	18.85	18.89	18.95	18.96	24.93	29.51	6.49	31.42	36.00	Pass
HT40	MCS0	4	8	2447	16.46	16.83	16.73	16.72	22.71	29.51	6.49	29.20	36.00	Pass
HT40	MCS0	4	9	2452	17.17	17.65	17.66	18.01	23.65	29.51	6.49	30.14	36.00	Pass
HE20	MCS0	4	1	2412	20.87	20.08	20.32	19.76	26.30	29.61	6.39	32.69	36.00	Pass
HE20	MCS0	4	2	2417	23.21	23.11	23.29	22.91	29.15	29.61	6.39	35.54	36.00	Pass
HE20	MCS0	4	3	2422	23.62	23.48	23.54	23.36	29.52	29.61	6.39	35.91	36.00	Pass
HE20	MCS0	4	6	2437	23.53	23.55	23.58	23.39	29.53	29.61	6.39	35.92	36.00	Pass
HE20	MCS0	4	8	2447	23.28	23.27	23.30	23.67	29.40	29.61	6.39	35.79	36.00	Pass
HE20	MCS0	4	9	2452	22.83	22.79	22.63	22.81	28.79	29.51	6.49	35.28	36.00	Pass
HE20	MCS0	4	10	2457	20.85	20.85	20.98	20.94	26.93	29.51	6.49	33.42	36.00	Pass
HE20	MCS0	4	11	2462	19.04	19.05	18.67	19.05	24.98	29.51	6.49	31.47	36.00	Pass
HE40	MCS0	4	3	2422	18.13	18.37	18.25	18.25	24.27	29.61	6.39	30.66	36.00	Pass
HE40	MCS0	4	4	2427	20.72	20.31	20.45	19.99	26.40	29.61	6.39	32.79	36.00	Pass
HE40	MCS0	4	5	2432	20.90	20.70	20.91	20.20	26.71	29.53	6.47	33.18	36.00	Pass
HE40	MCS0	4	6	2437	19.60	20.17	19.70	19.67	25.81	29.51	6.49	32.30	36.00	Pass
HE40	MCS0	4	7	2442	19.16	19.12	19.13	19.16	25.16	29.51	6.49	31.65	36.00	Pass
HE40	MCS0	4	8	2447	16.76	17.13	16.93	17.01	22.98	29.51	6.49	29.47	36.00	Pass
HE40	MCS0	4	9	2452	17.41	17.89	17.87	18.25	23.89	29.51	6.49	30.38	36.00	Pass

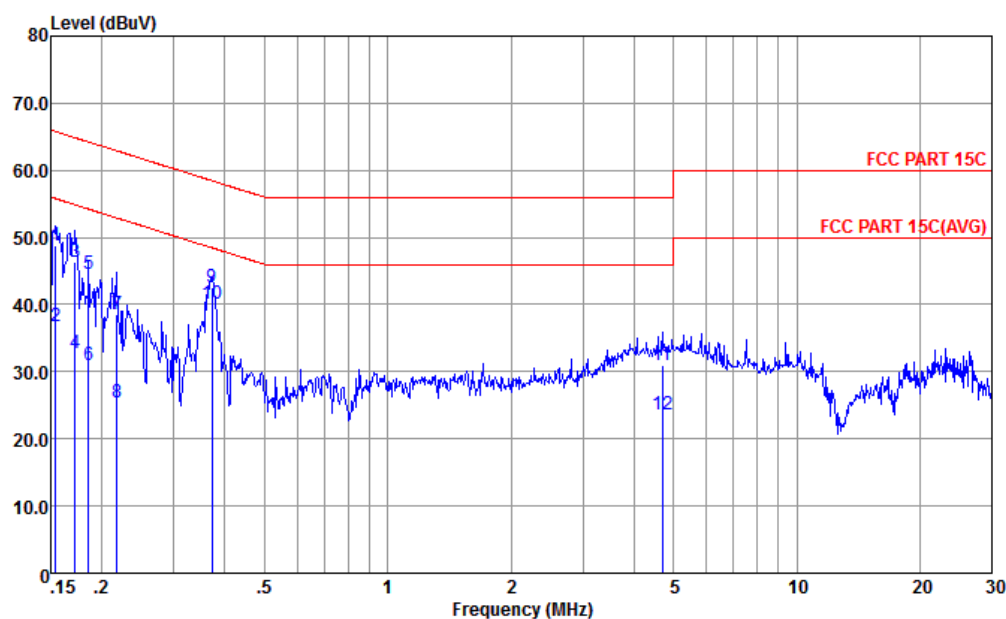
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)					DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant1	Ant2	Ant3	Ant4	Worse + 6.02			
11b	1Mbps	4	1	2412	-10.41	-9.81	-9.36	-9.72	-3.34	6.39	7.61	Pass
11b	1Mbps	4	6	2437	-11.07	-10.71	-11.07	-10.49	-4.47	6.39	7.61	Pass
11b	1Mbps	4	11	2462	-11.56	-11.83	-11.40	-11.40	-5.38	6.49	7.51	Pass
11g	6Mbps	4	1	2412	-11.28	-11.30	-11.15	-11.25	-5.13	6.39	7.61	Pass
11g	6Mbps	4	2	2417	-9.46	-9.29	-9.17	-9.69	-3.15	6.39	7.61	Pass
11g	6Mbps	4	6	2437	-9.71	-10.27	-9.63	-9.64	-3.61	6.39	7.61	Pass
11g	6Mbps	4	10	2457	-10.12	-9.65	-9.91	-9.52	-3.50	6.49	7.51	Pass
11g	6Mbps	4	11	2462	-12.10	-12.96	-12.27	-12.26	-6.08	6.49	7.51	Pass
HE20	MCS0	4	1	2412	-14.33	-15.43	-15.00	-14.76	-8.31	6.39	7.61	Pass
HE20	MCS0	4	2	2417	-11.28	-11.20	-11.56	-11.71	-5.18	6.39	7.61	Pass
HE20	MCS0	4	3	2422	-10.69	-10.78	-10.92	-10.94	-4.67	6.39	7.61	Pass
HE20	MCS0	4	6	2437	-11.18	-10.95	-11.18	-11.40	-4.93	6.39	7.61	Pass
HE20	MCS0	4	8	2447	-11.68	-11.50	-11.58	-11.75	-5.48	6.49	7.51	Pass
HE20	MCS0	4	9	2452	-12.05	-11.93	-12.11	-12.01	-5.91	6.49	7.51	Pass
HE20	MCS0	4	10	2457	-14.08	-13.96	-13.96	-13.57	-7.55	6.49	7.51	Pass
HE20	MCS0	4	11	2462	-15.78	-16.25	-16.15	-15.32	-9.30	6.49	7.51	Pass
HE40	MCS0	4	3	2422	-19.50	-19.56	-19.26	-20.19	-13.24	6.39	7.61	Pass
HE40	MCS0	4	4	2427	-17.00	-17.45	-16.65	-17.78	-10.63	6.39	7.61	Pass
HE40	MCS0	4	5	2432	-17.43	-17.10	-17.13	-17.69	-11.08	6.47	7.53	Pass
HE40	MCS0	4	6	2437	-16.95	-17.36	-17.45	-17.38	-10.93	6.49	7.51	Pass
HE40	MCS0	4	7	2442	-18.17	-18.92	-18.59	-18.27	-12.15	6.49	7.51	Pass
HE40	MCS0	4	8	2447	-21.47	-20.53	-20.15	-20.15	-14.13	6.49	7.51	Pass
HE40	MCS0	4	9	2452	-20.24	-19.27	-19.12	-18.99	-12.97	6.49	7.51	Pass



Appendix B. AC Conducted Emission Test Results

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

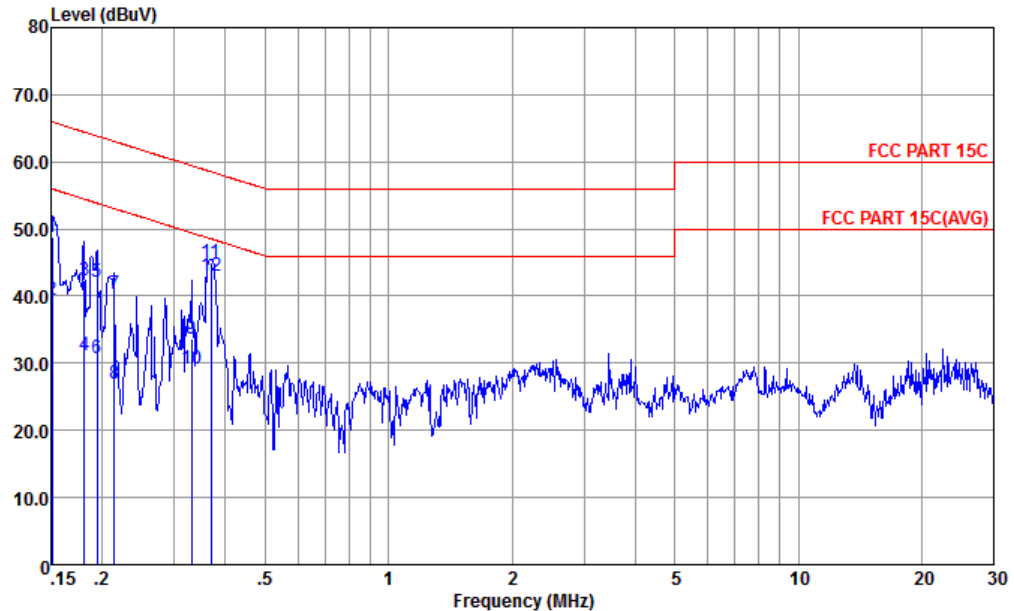


Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.154	48.69	-17.09	65.78	38.20	0.02	10.47	QP
2	0.154	36.79	-18.99	55.78	26.30	0.02	10.47	Average
3	0.172	46.35	-18.51	64.86	35.90	0.03	10.42	QP
4	0.172	32.75	-22.11	54.86	22.30	0.03	10.42	Average
5	0.185	44.63	-19.61	64.24	34.21	0.03	10.39	QP
6	0.185	31.03	-23.21	54.24	20.61	0.03	10.39	Average
7	0.217	38.60	-24.32	62.92	28.20	0.05	10.35	QP
8	0.217	25.50	-27.42	52.92	15.10	0.05	10.35	Average
9	0.371	42.56	-15.91	58.47	32.20	0.08	10.28	QP
10 *	0.371	40.16	-8.31	48.47	29.80	0.08	10.28	Average
11	4.696	31.04	-24.96	56.00	20.59	0.18	10.27	QP
12	4.696	23.64	-22.36	46.00	13.19	0.18	10.27	Average



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



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.151	48.79	-17.17	65.96	38.20	0.11	10.48	QP
2	0.151	39.49	-16.47	55.96	28.90	0.11	10.48	Average
3	0.181	42.41	-22.05	64.46	31.91	0.10	10.40	QP
4	0.181	31.11	-23.35	54.46	20.61	0.10	10.40	Average
5	0.194	42.08	-21.76	63.84	31.61	0.10	10.37	QP
6	0.194	30.68	-23.16	53.84	20.21	0.10	10.37	Average
7	0.214	40.25	-22.80	63.05	29.80	0.10	10.35	QP
8	0.214	27.05	-26.00	53.05	16.60	0.10	10.35	Average
9	0.330	33.70	-25.74	59.44	23.31	0.10	10.29	QP
10	0.330	29.20	-20.24	49.44	18.81	0.10	10.29	Average
11	0.369	44.98	-13.54	58.52	34.60	0.10	10.28	QP
12 *	0.369	42.98	-5.54	48.52	32.60	0.10	10.28	Average

Note:

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



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)---Sample 1

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
CDD 4*4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.43	49.47	-24.53	74	48.73	30.5	7.1	36.86	101	77	P	H
		2389.95	39.27	-14.73	54	38.53	30.5	7.1	36.86	101	77	A	H
		2412	116.97	-	-	116.12	30.57	7.13	36.85	101	77	P	H
		2414	113.51	-	-	112.66	30.57	7.13	36.85	101	77	A	H
		2365.12	48.49	-25.51	74	47.84	30.46	7.07	36.88	288	28	P	V
		2389.95	38.1	-15.9	54	37.36	30.5	7.1	36.86	288	28	A	V
		2412	110.62	-	-	109.77	30.57	7.13	36.85	288	28	P	V
		2414	108.24	-	-	107.39	30.57	7.13	36.85	288	28	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)---Sample 1**

WIFI Ant. CDD 4*4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4830	55.24	-18.76	74	75.76	34.61	10.25	65.38	100	210	P	H
		4830	53.41	-0.59	54	73.93	34.61	10.25	65.38	100	210	A	H
		4830	53.85	-20.15	74	74.37	34.61	10.25	65.38	269	341	P	V
		4830	51.61	-2.39	54	72.13	34.61	10.25	65.38	269	341	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 Full (Band Edge @ 3m)---Sample 1

WIFI Ant. BF 4*4	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 10 2457MHz		2483.5	67.16	-6.84	74	65.87	30.86	7.25	36.82	338	8	P	H
		2483.5	53.14	-0.86	54	51.85	30.86	7.25	36.82	338	8	A	H
		2458	119.64	-	-	118.46	30.79	7.22	36.83	338	8	P	H
		2458	112.56	-	-	111.38	30.79	7.22	36.83	338	8	A	H
		2483.74	62.14	-11.86	74	60.85	30.86	7.25	36.82	298	125	P	V
		2483.5	47.24	-6.76	54	45.95	30.86	7.25	36.82	298	125	A	V
		2458	115.39	-	-	114.21	30.79	7.22	36.83	298	125	P	V
		2458	106.41	-	-	105.23	30.79	7.22	36.83	298	125	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 Full (Harmonic @ 3m)---Sample 1

WIFI Ant. BF 4*4	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 10 2457MHz		4920	58.01	-15.99	74	78.35	34.77	10.34	65.45	100	214	P	H
		4920	48.24	-5.76	54	68.58	34.77	10.34	65.45	100	214	A	H
		7365	48.59	-25.41	74	65.26	36.66	12.73	66.06	300	0	P	H
		4920	55.35	-18.65	74	75.69	34.77	10.34	65.45	252	238	P	V
		4920	45.94	-8.06	54	66.28	34.77	10.34	65.45	252	238	A	V
		7371	44.81	-29.19	74	61.54	36.65	12.73	66.11	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)---Sample 1

WIFI Ant. BF 4*4	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 08 2447MHz		2361.35	49.07	-24.93	74	48.42	30.46	7.07	36.88	244	104	P	H
		2389.95	39.59	-14.41	54	38.85	30.5	7.1	36.86	244	104	A	H
		2483.5	62.03	-11.97	74	60.74	30.86	7.25	36.82	244	104	P	H
		2483.5	53.2	-0.8	54	51.91	30.86	7.25	36.82	244	104	A	H
		2454	115.55	-	-	114.37	30.79	7.22	36.83	244	104	P	H
		2448	106.2	-	-	105.14	30.71	7.19	36.84	244	104	A	H
		2314.29	48.56	-25.44	74	48.08	30.41	6.98	36.91	363	102	P	V
		2389.56	39.33	-14.67	54	38.59	30.5	7.1	36.86	363	102	A	V
		2485.36	57.1	-16.9	74	55.81	30.86	7.25	36.82	363	102	P	V
		2484.94	47.93	-6.07	54	46.64	30.86	7.25	36.82	363	102	A	V
		2450	111.56	-	-	110.5	30.71	7.19	36.84	363	102	P	V
		2446	102.06	-	-	101	30.71	7.19	36.84	363	102	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 HE40 Full (Harmonic @ 3m)---Sample 1

WIFI Ant. BF 4*4	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 08 2447MHz		4890	49.97	-24.03	74	70.37	34.71	10.32	65.43	300	0	P	H
		7341	43.81	-30.19	74	60.44	36.66	12.72	66.01	300	0	P	H
		7650	53.7	-20.3	74	70.34	36.72	13.06	66.42	275	72	P	H
		7650	49.62	-4.38	54	66.26	36.72	13.06	66.42	275	72	A	H
		4905	47.38	-26.62	74	67.74	34.74	10.34	65.44	100	0	P	V
		7341	44.03	-29.97	74	60.66	36.66	12.72	66.01	100	0	P	V
		7650	50	-24	74	66.64	36.72	13.06	66.42	100	57	P	V
		7650	45.4	-8.6	54	62.04	36.72	13.06	66.42	100	57	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11b (LF)---Sample 1

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4*4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		31.94	25.75	-14.25	40	33.95	24.14	0.72	33.06	-	-	P	H
		86.26	24.75	-15.25	40	42.16	14.12	1.35	32.88	-	-	P	H
		102.75	28.3	-15.2	43.5	43.82	16.1	1.47	33.09	-	-	P	H
		675.05	25.91	-20.09	46	28.27	26.36	3.83	32.55	-	-	P	H
		799.21	29.04	-16.96	46	28.4	28.61	4.14	32.11	-	-	P	H
		950.53	29.74	-16.26	46	26.49	30.84	4.51	32.1	-	-	P	H
		30.97	36.71	-3.29	40	44.34	24.75	0.7	33.08	100	55	P	V
		41.64	33.68	-6.32	40	47.41	18.46	0.91	33.1	-	-	P	V
		92.08	34	-9.5	43.5	50.52	14.91	1.41	32.84	-	-	P	V
		600.36	24.04	-21.96	46	27.48	25.76	3.6	32.8	-	-	P	V
		789.51	29.33	-16.67	46	28.97	28.46	4.11	32.21	-	-	P	V
		958.29	29.97	-16.03	46	26.82	30.7	4.53	32.08	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



For Co-location Mode:

2.4GHz 2400~2483.5MHz

WIFI 802.11b + Part 96 LTE Band 48- BW 20M (Band Edge @ 3m)---Sample 1

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
CDD 4*4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.82	49.37	-24.63	74	48.63	30.5	7.1	36.86	203	118	P	H
		2388.13	39.16	-14.84	54	38.42	30.5	7.1	36.86	203	118	A	H
		2412	117.8	-	-	116.95	30.57	7.13	36.85	203	118	P	H
		2412	113.61	-	-	112.76	30.57	7.13	36.85	203	118	A	H
		2389.56	49.5	-24.5	74	48.76	30.5	7.1	36.86	273	94	P	V
		2389.95	38.31	-15.69	54	37.57	30.5	7.1	36.86	273	94	A	V
		2414	115.02	-	-	114.17	30.57	7.13	36.85	273	94	P	V
		2414	112.05	-	-	111.2	30.57	7.13	36.85	273	94	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 + Part 96 LTE Band 48- BW 20M (Harmonic @ 3m)---Sample 1**

WIFI Ant. CDD 4*4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4830	54.61	-19.39	74	75.13	34.61	10.25	65.38	255	38	P	H
		4830	53.43	-0.57	54	73.95	34.61	10.25	65.38	255	38	A	H
		4830	54.01	-19.99	74	74.53	34.61	10.25	65.38	302	360	P	V
		4830	51.92	-2.08	54	72.44	34.61	10.25	65.38	302	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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.	
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. 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. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																													
ANT	802.11b CH01 2412MHz																																																													
CDD 4*4	Horizontal	Fundamental																																																												
Peak	Site : 03CB05-E5 Condition : FCC PART 15C 3m 3117 00218052 HORIZONTAL Project : 802.11b 100KHz YPW 3000.000KHz SW Auto Mode : (FR)102908 Plane : T Polar-directivity : T IME1 : 416 Powersetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2389.43</td><td>49.47</td><td>-24.53</td><td>74.00</td><td>48.73</td><td>38.58</td><td>7.13</td><td>36.86</td><td>101</td><td>77 Peak</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2389.43	49.47	-24.53	74.00	48.73	38.58	7.13	36.86	101	77 Peak	HORIZONTAL	Site : 03CB05-E5 Condition : FCC PART 15C 3m 3117 00218052 HORIZONTAL Project : 802.11b 100KHz YPW 3000.000KHz SW Auto Mode : (FR)102908 Plane : T Polar-directivity : T IME1 : 416 Powersetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>116.97</td><td>42.97</td><td>74.00</td><td>116.12</td><td>38.57</td><td>7.13</td><td>36.85</td><td>101</td><td>77 Peak</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2412.00	116.97	42.97	74.00	116.12	38.57	7.13	36.85	101	77 Peak	HORIZONTAL
	Sample 1	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																					
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Avg.	Site : 03CB05-E5 Condition : FCC PART 15C (AVG) 3m 3117 00218052 HORIZONTAL Project : 802.11b 100KHz YPW 0.100KHz SW Auto Mode : (FR)102908 Plane : T Polar-directivity : T IME1 : 416 Powersetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2389.95</td><td>39.27</td><td>-14.73</td><td>54.00</td><td>38.53</td><td>38.58</td><td>7.13</td><td>36.86</td><td>101</td><td>77 Average</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2389.95	39.27	-14.73	54.00	38.53	38.58	7.13	36.86	101	77 Average	HORIZONTAL	Site : 03CB05-E5 Condition : FCC PART 15C (AVG) 3m 3117 00218052 HORIZONTAL Project : 802.11b 100KHz YPW 1.000KHz SW Auto Mode : (FR)102908 Plane : T Polar-directivity : T IME1 : 416 Powersetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>113.51</td><td>59.51</td><td>54.00</td><td>112.66</td><td>38.57</td><td>7.13</td><td>36.85</td><td>101</td><td>77 Average</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2412.00	113.51	59.51	54.00	112.66	38.57	7.13	36.85	101	77 Average	HORIZONTAL
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																															
ANT	802.11b CH01 2412MHz																																																															
CDD 4*4	Vertical	Fundamental																																																														
Peak	Site : 03C805-E5 Condition : FCC PART 15C 3m 3117 00210802 VERTICAL Project : RSW 1000.000MHz YMW 3000.000MHz SMT Auto FR102908 Mode : J Plane : Y Full-directivity IMEI : #10 Powerzetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2305.12</td><td>48.49</td><td>-25.51</td><td>74.00</td><td>47.84</td><td>38.46</td><td>7.87</td><td>36.88</td><td>288</td><td>28 Peak VERTICAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	dB	dB	cm	deg	1	2305.12	48.49	-25.51	74.00	47.84	38.46	7.87	36.88	288	28 Peak VERTICAL	Site : 03C805-E5 Condition : FCC PART 15C 3m 3117 00210802 VERTICAL Project : RSW 1000.000MHz YMW 3000.000MHz SMT Auto FR102908 Mode : J Plane : Y Full-directivity IMEI : #10 Powerzetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2412.00</td><td>118.62</td><td>36.62</td><td>74.00</td><td>189.77</td><td>38.57</td><td>7.13</td><td>36.85</td><td>288</td><td>28 Peak VERTICAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	dB	dB	cm	deg	1 *	2412.00	118.62	36.62	74.00	189.77	38.57	7.13	36.85	288	28 Peak VERTICAL
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Avg.	Site : 03C805-E5 Condition : FCC PART 15C (Ave) 3m 3117 00210802 VERTICAL Project : RSW 1000.000MHz YMW 0.1208MHz SMT Auto FR102908 Mode : J Plane : Y Full-directivity IMEI : #10 Powerzetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2309.95</td><td>38.10</td><td>-15.90</td><td>54.00</td><td>37.56</td><td>38.58</td><td>7.18</td><td>36.86</td><td>288</td><td>28 Average VERTICAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	dB	dB	cm	deg	1	2309.95	38.10	-15.90	54.00	37.56	38.58	7.18	36.86	288	28 Average VERTICAL	Site : 03C805-E5 Condition : FCC PART 15C (Ave) 3m 3117 00210802 VERTICAL Project : RSW 1000.000MHz YMW 1.0008MHz SMT Auto FR102908 Mode : J Plane : Y Full-directivity IMEI : #10 Powerzetting : 20 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2414.00</td><td>188.24</td><td>54.24</td><td>54.00</td><td>187.39</td><td>38.57</td><td>7.13</td><td>36.85</td><td>288</td><td>28 Average VERTICAL</td></tr></table>	Sample 1	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	dB	dB	cm	deg	1 *	2414.00	188.24	54.24	54.00	187.39	38.57	7.13	36.85	288	28 Average VERTICAL
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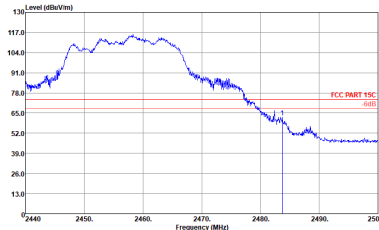
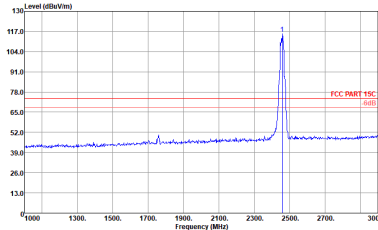
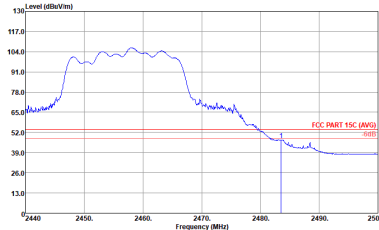
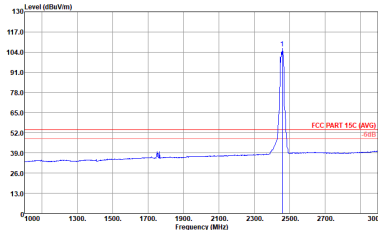


2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																											
ANT	802.11ax HE20 Full CH10 2457MHz																																																																											
BF 4*4	Horizontal	Fundamental																																																																										
Peak	Site Condition : 03C005-E5 FCC PART 15C 3a 3117 00218052 HORIZONTAL Power : 100.000000 WPM 3000.000000 SWT Auto Mode : (FR)102908 Plane : T Pull-directivity : IME1 : #10 Powersetting : 19 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.50</td><td>67.16</td><td>-6.84</td><td>74.00</td><td>65.87</td><td>30.86</td><td>7.25</td><td>36.82</td><td>330</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2483.50	67.16	-6.84	74.00	65.87	30.86	7.25	36.82	330	0 Peak	HORIZONTAL	Site Condition : 03C005-E5 FCC PART 15C 3a 3117 00218052 HORIZONTAL Power : 100.000000 WPM 3000.000000 SWT Auto Mode : (FR)102908 Plane : T Pull-directivity : IME1 : #10 Powersetting : 19 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2450.00</td><td>119.64</td><td>45.64</td><td>74.00</td><td>118.46</td><td>30.79</td><td>7.22</td><td>36.83</td><td>330</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2450.00	119.64	45.64	74.00	118.46	30.79	7.22	36.83	330	0 Peak	HORIZONTAL
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Avg.	Site Condition : 03C005-E5 FCC PART 15C (AVG) 3a 3117 00218052 HORIZONTAL Power : 100.000000 WPM 1.000000 SWT Auto Mode : (FR)102908 Plane : T Pull-directivity : IME1 : #10 Powersetting : 19 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.50</td><td>53.14</td><td>-8.86</td><td>54.00</td><td>51.85</td><td>30.86</td><td>7.25</td><td>36.82</td><td>330</td><td>0 Average</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2483.50	53.14	-8.86	54.00	51.85	30.86	7.25	36.82	330	0 Average	HORIZONTAL	Site Condition : 03C005-E5 FCC PART 15C (AVG) 3a 3117 00218052 HORIZONTAL Power : 100.000000 WPM 1.000000 SWT Auto Mode : (FR)102908 Plane : T Pull-directivity : IME1 : #10 Powersetting : 19 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2450.00</td><td>112.56</td><td>54.56</td><td>54.00</td><td>111.30</td><td>30.79</td><td>7.22</td><td>36.83</td><td>330</td><td>0 Average</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2450.00	112.56	54.56	54.00	111.30	30.79	7.22	36.83	330	0 Average	HORIZONTAL
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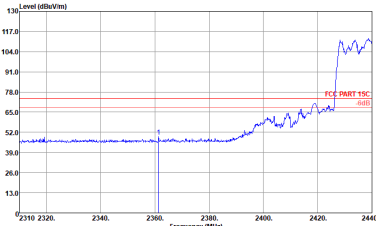
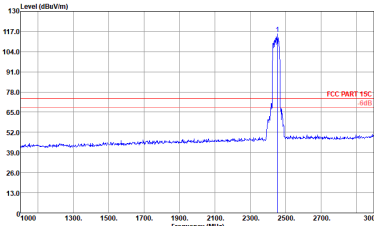
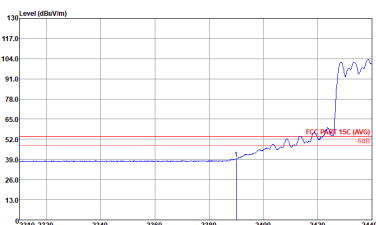
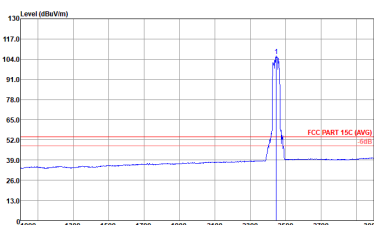


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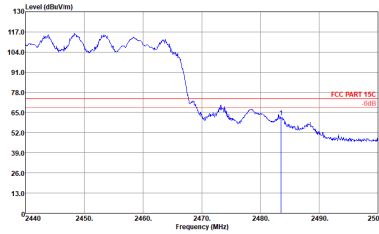
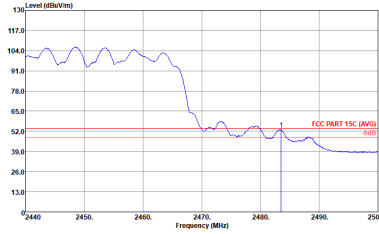


2.4GHz 2400~2483.5MHz

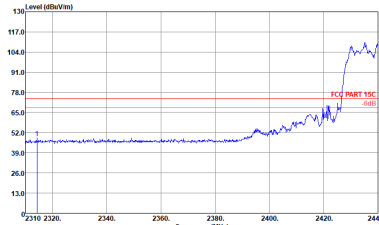
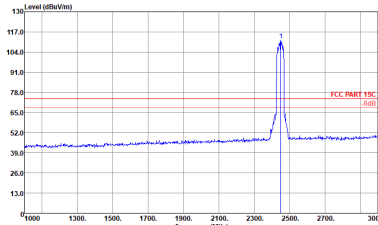
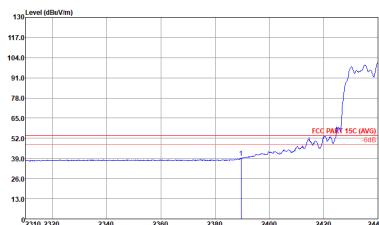
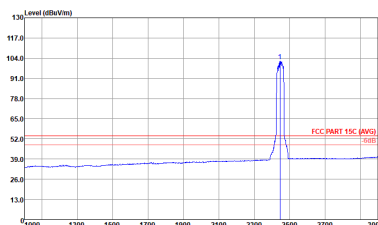
WIFI 802.11ax HE40 Full (Band Edge @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																										
ANT	802.11ax HE40 Full CH08 2447MHz - L																																																																																																										
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	Site : 030605-KS Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL Project : RRM 1000 0000Hz VSW 3000 0000Hz SRT:Auto Mode : (FR)102908 Plane : Y Full-directivity : #15 Powersetting : 15.5 <table><tr><th colspan="12">Sample 1</th></tr><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th colspan="3"></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th colspan="3"></th></tr><tr><td>1</td><td>2361.35</td><td>49.07</td><td>-24.93</td><td>74.00</td><td>48.42</td><td>30.46</td><td>7.07</td><td>36.88</td><td>244</td><td>104 Peak</td><td>HORIZONTAL</td></tr></table>						Sample 1												Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas				MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg					1	2361.35	49.07	-24.93	74.00	48.42	30.46	7.07	36.88	244	104 Peak	HORIZONTAL	Site : 030605-KS Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL Project : RRM 1000 0000Hz VSW 3000 0000Hz SRT:Auto Mode : (FR)102908 Plane : Y Full-directivity : #15 Powersetting : 15.5 <table><tr><th colspan="12">Sample 1</th></tr><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th colspan="3"></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th colspan="3"></th></tr><tr><td>1</td><td>2454.00</td><td>115.55</td><td>41.55</td><td>74.00</td><td>114.37</td><td>30.79</td><td>7.22</td><td>36.83</td><td>244</td><td>104 Peak</td><td>HORIZONTAL</td></tr></table>						Sample 1												Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas				MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg					1	2454.00	115.55	41.55	74.00	114.37	30.79	7.22	36.83	244	104 Peak
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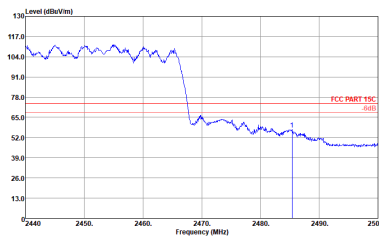
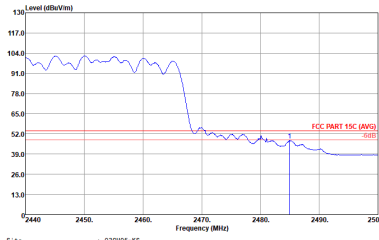


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																							
ANT	802.11ax HE40 Full CH08 2447MHz - R																																							
BF 4*4	Horizontal					Fundamental																																		
Peak	 Site Condition : 032005-KS FCC PART 15C 3m 3117 00218652 HORIZONTAL RBR 1000 00000 VSW 3000 00000 SRT Auto Project : (FR) 102908 Mode : B Plane : Y Full-directivity #15 IMEI : 15-5 Powersetting : Sample 1 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2483.50</td><td>62.03</td><td>-11.97</td><td>74.00</td><td>60.74</td><td>30.86</td><td>7.25</td><td>36.82</td><td>244 104 Peak</td><td>HORIZONTAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	cm	deg			1 2483.50	62.03	-11.97	74.00	60.74	30.86	7.25	36.82	244 104 Peak	HORIZONTAL	Left Blank				
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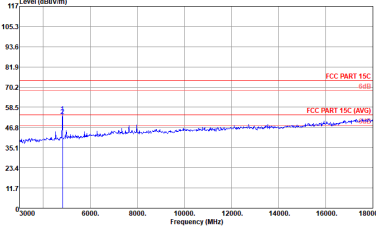
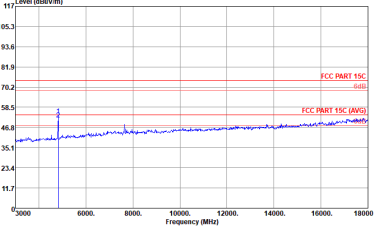
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ANT		802.11ax HE40 Full CH08 2447MHz - L																																																										
BF 4*4		Vertical	Fundamental																																																									
Peak	 Level (dBm/Vm) Frequency (MHz) FCC PART 15C (dBm) Site : 030605-KS Condition : FCC PART 15C 3m 2117 00218652 VERTICAL Project : RSR 1000 0000Hz VSW 3000 0000Hz SRT Auto Mode : 0 Plane : Y Full-directivity : #10 Powersetting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Wz</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2314.29</td><td>48.56</td><td>-25.44</td><td>74.00</td><td>48.08</td><td>30.41</td><td>6.98</td><td>36.91</td><td>363</td><td>102</td><td>Peak</td><td>VERTICAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Wz	dBm/Vm	dBm/Vm	dBm/Vm	dBm	cm	deg		1	2314.29	48.56	-25.44	74.00	48.08	30.41	6.98	36.91	363	102	Peak	VERTICAL	 Level (dBm/Vm) Frequency (MHz) FCC PART 15C (dBm) Site : 030605-KS Condition : FCC PART 15C 3m 2117 00218652 VERTICAL Project : RSR 1000 0000Hz VSW 3000 0000Hz SRT Auto Mode : 0 Plane : Y Full-directivity : #10 Powersetting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Wz</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2450.00</td><td>111.56</td><td>37.56</td><td>74.00</td><td>110.50</td><td>30.71</td><td>7.19</td><td>36.84</td><td>363</td><td>102</td><td>Peak</td><td>VERTICAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Wz	dBm/Vm	dBm/Vm	dBm/Vm	dBm	cm	deg		1	2450.00	111.56	37.56	74.00	110.50	30.71	7.19	36.84	363	102	Peak	VERTICAL
	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																				
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Avg.	 Level (dBm/Vm) Frequency (MHz) FCC PART 15C (AVG) (dBm) Site : 030605-KS Condition : FCC PART 15C (AVG) 3m 2117 00218652 VERTICAL Project : RSR 1000 0000Hz VSW 2.0000Hz SRT Auto Mode : 0 Plane : Y Full-directivity : #10 Powersetting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Wz</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.56</td><td>39.33</td><td>-14.67</td><td>54.00</td><td>38.99</td><td>30.50</td><td>7.10</td><td>36.86</td><td>363</td><td>102</td><td>Average</td><td>VERTICAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Wz	dBm/Vm	dBm/Vm	dBm/Vm	dBm	cm	deg		1	2389.56	39.33	-14.67	54.00	38.99	30.50	7.10	36.86	363	102	Average	VERTICAL	 Level (dBm/Vm) Frequency (MHz) FCC PART 15C (AVG) (dBm) Site : 030605-KS Condition : FCC PART 15C (AVG) 3m 2117 00218652 VERTICAL Project : RSR 1000 0000Hz VSW 2.0000Hz SRT Auto Mode : 0 Plane : Y Full-directivity : #10 Powersetting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Wz</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2446.00</td><td>102.06</td><td>48.06</td><td>54.00</td><td>101.00</td><td>30.71</td><td>7.19</td><td>36.84</td><td>363</td><td>102</td><td>Average</td><td>VERTICAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Wz	dBm/Vm	dBm/Vm	dBm/Vm	dBm	cm	deg		1	2446.00	102.06	48.06	54.00	101.00	30.71	7.19	36.84	363	102	Average	VERTICAL
	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																				
Wz	dBm/Vm	dBm/Vm	dBm/Vm	dBm	cm	deg																																																						
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WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																			
ANT		802.11ax HE40 Full CH08 2447MHz - R																																																			
BF 4*4		Vertical					Fundamental																																														
Peak		 Site : 030H05-KS Condition : FCC PART 15C 3m 3117 00218662 VERTICAL Project : R88-1000 0000Hz VSW-3000 0000Hz SMT-Auto Mode : FR0102908 Plane : B FMI : Y Power setting : Full-directivity #15 15.5 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Presamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.36</td><td>57.10</td><td>-16.90</td><td>74.00</td><td>55.81</td><td>30.86</td><td>7.25</td><td>36.82</td><td>363</td><td>102</td><td>Peak</td><td>VERTICAL</td></tr></table>										Sample 1	Over	Limit	ReadAntenna	Cable Presamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2485.36	57.10	-16.90	74.00	55.81	30.86	7.25	36.82	363	102	Peak	VERTICAL	Left blank	
Sample 1	Over	Limit	ReadAntenna	Cable Presamp	A/Pos	T/Pos	Remark	Pol/Phas																																													
Level	Level	Line	Level	Factor	Loss	Factor																																															
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1	2485.36	57.10	-16.90	74.00	55.81	30.86	7.25	36.82	363	102	Peak	VERTICAL																																									
Avg.		 Site : 030H05-KS Condition : FCC PART 15C (AVG) 3m 3117 00218662 VERTICAL Project : R88-1000 0000Hz VSW-2.0000Hz SMT-Auto Mode : FR0102908 Plane : B FMI : Y Power setting : Full-directivity #15 15.5 <table><tr><th>Sample 1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Presamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.94</td><td>47.92</td><td>-6.97</td><td>54.00</td><td>46.64</td><td>30.86</td><td>7.25</td><td>36.82</td><td>363</td><td>102</td><td>Average</td><td>VERTICAL</td></tr></table>										Sample 1	Over	Limit	ReadAntenna	Cable Presamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	2484.94	47.92	-6.97	54.00	46.64	30.86	7.25	36.82	363	102	Average	VERTICAL	Left blank	
Sample 1	Over	Limit	ReadAntenna	Cable Presamp	A/Pos	T/Pos	Remark	Pol/Phas																																													
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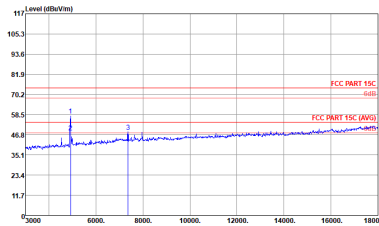
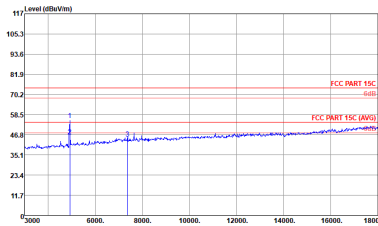
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
CDD 4*4	Horizontal	Vertical
Peak Avg.	 Site : 03C805-E3 Condition : FCC PART 15C 3m 3117 00218052 HORIZONTAL Power : 100.000000 W 300.000000 dBm Project : 1 Model : 1 Polar : 1 Full-directivity : 1 IMEI : 810 PowerSetting : 20 Sample 1 Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 4830.00 55.24 -10.76 74.00 75.76 34.61 10.25 65.38 100 210 Peak HORIZONTAL 2 1 4830.00 53.41 -8.99 54.00 73.93 34.61 10.25 65.38 100 210 Average HORIZONTAL	 Site : 03C805-E3 Condition : FCC PART 15C 3m 3117 00218052 VERTICAL Power : 100.000000 W 300.000000 dBm Project : 1 Model : 1 Polar : 1 Full-directivity : 1 IMEI : 810 PowerSetting : 20 Sample 1 Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 4830.00 53.05 -10.15 74.00 74.37 34.61 10.25 65.38 269 341 Peak VERTICAL 2 1 4830.00 51.61 -2.39 54.00 72.13 34.61 10.25 65.38 269 341 Average VERTICAL



2.4GHz 2400~2483.5MHz

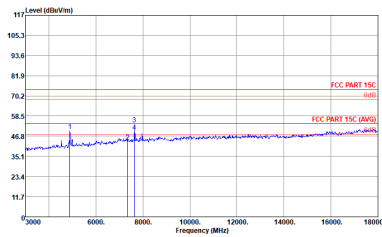
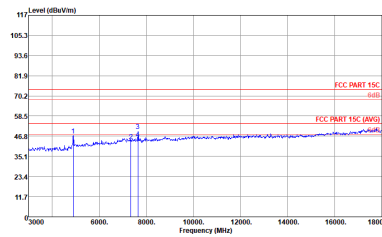
WIFI 802.11ax HE20 Full (Harmonic @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																															
ANT	802.11ax HE20 Full CH10 2457MHz																																																																															
BF 4*4	Horizontal	Vertical																																																																														
Peak Avg.	 Site : 03CB05-ES Condition : FCC PART 15C 3m 3117 00218852 HORIZONTAL Ref : 1000.000000 100 3000.000000 SW Auto Project : FR102908 Date : Plane : 7 Full-directivity IMEI : Power setting : Sample 1 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas FREQ Level Limit Line Level Factor Loss Factor cm deg <table><tr><td>1</td><td>4920.00</td><td>58.81</td><td>-15.99</td><td>74.00</td><td>78.35</td><td>34.77</td><td>18.34</td><td>65.45</td><td>100</td><td>214</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>4920.00</td><td>48.24</td><td>-5.76</td><td>54.00</td><td>60.58</td><td>34.77</td><td>18.34</td><td>65.45</td><td>100</td><td>214</td><td>Average</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>7565.00</td><td>48.59</td><td>-25.41</td><td>74.00</td><td>65.26</td><td>36.06</td><td>12.73</td><td>66.00</td><td>300</td><td>0</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	1	4920.00	58.81	-15.99	74.00	78.35	34.77	18.34	65.45	100	214	Peak	HORIZONTAL	2	4920.00	48.24	-5.76	54.00	60.58	34.77	18.34	65.45	100	214	Average	HORIZONTAL	3	7565.00	48.59	-25.41	74.00	65.26	36.06	12.73	66.00	300	0	Peak	HORIZONTAL	 Site : 03CB05-ES Condition : FCC PART 15C 3m 3117 00218852 VERTICAL Ref : 1000.000000 100 3000.000000 SW Auto Project : FR102908 Date : Plane : 7 Full-directivity IMEI : Power setting : Sample 1 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas FREQ Level Limit Line Level Factor Loss Factor cm deg <table><tr><td>1</td><td>4920.00</td><td>55.55</td><td>-18.65</td><td>74.00</td><td>75.69</td><td>34.77</td><td>18.34</td><td>65.45</td><td>252</td><td>238</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>4920.00</td><td>45.94</td><td>-8.06</td><td>54.00</td><td>66.28</td><td>34.77</td><td>18.34</td><td>65.45</td><td>252</td><td>238</td><td>Average</td><td>VERTICAL</td></tr><tr><td>3</td><td>7572.00</td><td>44.81</td><td>-29.19</td><td>74.00</td><td>61.54</td><td>36.65</td><td>12.73</td><td>66.11</td><td>100</td><td>0</td><td>Peak</td><td>VERTICAL</td></tr></table>	1	4920.00	55.55	-18.65	74.00	75.69	34.77	18.34	65.45	252	238	Peak	VERTICAL	2	4920.00	45.94	-8.06	54.00	66.28	34.77	18.34	65.45	252	238	Average	VERTICAL	3	7572.00	44.81	-29.19	74.00	61.54	36.65	12.73	66.11	100	0	Peak	VERTICAL
	1	4920.00	58.81	-15.99	74.00	78.35	34.77	18.34	65.45	100	214	Peak	HORIZONTAL																																																																			
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1	4920.00	55.55	-18.65	74.00	75.69	34.77	18.34	65.45	252	238	Peak	VERTICAL																																																																				
2	4920.00	45.94	-8.06	54.00	66.28	34.77	18.34	65.45	252	238	Average	VERTICAL																																																																				
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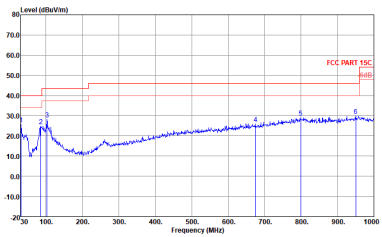
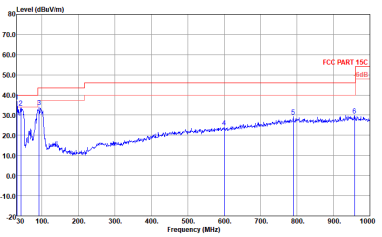
2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																																											
ANT	802.11ax HE40 Full CH08 2447MHz																																																																																																																											
BF 4*4	Horizontal	Vertical																																																																																																																										
Peak	 Site : 030405-KS Condition : FCC PART 15C 3m 3117 00218652 HORIZONTAL Project : FR102908A YHM 2000 000MHz SRT Auto Model : 8 Plane : Y Full-directivity : Y MEI : 15.5 Power setting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th></tr><tr><td>1 4890.00</td><td>49.97</td><td>-24.03</td><td>74.00</td><td>70.37</td><td>34.71</td><td>10.32</td><td>65.43</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 7341.00</td><td>42.81</td><td>-20.19</td><td>74.00</td><td>60.44</td><td>38.66</td><td>13.73</td><td>66.01</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>3 7650.00</td><td>53.70</td><td>-20.30</td><td>74.00</td><td>70.34</td><td>38.72</td><td>13.06</td><td>66.42</td><td>275</td><td>72 Peak</td><td>HORIZONTAL</td></tr><tr><td>4 7650.00</td><td>49.62</td><td>-24.38</td><td>74.00</td><td>66.26</td><td>36.72</td><td>13.06</td><td>66.42</td><td>275</td><td>72 Average</td><td>HORIZONTAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	Level	Line	Level	Factor	Loss	Factor	cm	deg	1 4890.00	49.97	-24.03	74.00	70.37	34.71	10.32	65.43	300	0 Peak	HORIZONTAL	2 7341.00	42.81	-20.19	74.00	60.44	38.66	13.73	66.01	100	0 Peak	HORIZONTAL	3 7650.00	53.70	-20.30	74.00	70.34	38.72	13.06	66.42	275	72 Peak	HORIZONTAL	4 7650.00	49.62	-24.38	74.00	66.26	36.72	13.06	66.42	275	72 Average	HORIZONTAL	 Site : 030405-KS Condition : FCC PART 15C 3m 3117 00218652 VERTICAL Project : FR102908A YHM 2000 000MHz SRT Auto Model : 8 Plane : Y Full-directivity : Y MEI : 15.5 Power setting : 15.5 <table><tr><th>Sample 1</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th></tr><tr><td>1 4905.00</td><td>47.38</td><td>-26.62</td><td>74.00</td><td>67.74</td><td>34.74</td><td>10.34</td><td>65.44</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>2 7341.00</td><td>44.03</td><td>-29.97</td><td>74.00</td><td>60.46</td><td>38.66</td><td>13.73</td><td>66.01</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>3 7650.00</td><td>50.00</td><td>-24.00</td><td>74.00</td><td>68.64</td><td>38.72</td><td>13.06</td><td>66.42</td><td>100</td><td>57 Peak</td><td>VERTICAL</td></tr><tr><td>4 7650.00</td><td>45.60</td><td>-28.40</td><td>74.00</td><td>62.04</td><td>36.72</td><td>13.06</td><td>66.42</td><td>100</td><td>57 Average</td><td>VERTICAL</td></tr></table>	Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	Level	Line	Level	Factor	Loss	Factor	cm	deg	1 4905.00	47.38	-26.62	74.00	67.74	34.74	10.34	65.44	100	0 Peak	VERTICAL	2 7341.00	44.03	-29.97	74.00	60.46	38.66	13.73	66.01	100	0 Peak	VERTICAL	3 7650.00	50.00	-24.00	74.00	68.64	38.72	13.06	66.42	100	57 Peak	VERTICAL	4 7650.00	45.60	-28.40	74.00	62.04	36.72	13.06	66.42	100	57 Average	VERTICAL
Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																					
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2 7341.00	42.81	-20.19	74.00	60.44	38.66	13.73	66.01	100	0 Peak	HORIZONTAL																																																																																																																		
3 7650.00	53.70	-20.30	74.00	70.34	38.72	13.06	66.42	275	72 Peak	HORIZONTAL																																																																																																																		
4 7650.00	49.62	-24.38	74.00	66.26	36.72	13.06	66.42	275	72 Average	HORIZONTAL																																																																																																																		
Sample 1	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																					
MHz	Level	Line	Level	Factor	Loss	Factor	cm	deg																																																																																																																				
1 4905.00	47.38	-26.62	74.00	67.74	34.74	10.34	65.44	100	0 Peak	VERTICAL																																																																																																																		
2 7341.00	44.03	-29.97	74.00	60.46	38.66	13.73	66.01	100	0 Peak	VERTICAL																																																																																																																		
3 7650.00	50.00	-24.00	74.00	68.64	38.72	13.06	66.42	100	57 Peak	VERTICAL																																																																																																																		
4 7650.00	45.60	-28.40	74.00	62.04	36.72	13.06	66.42	100	57 Average	VERTICAL																																																																																																																		



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)---Sample 1

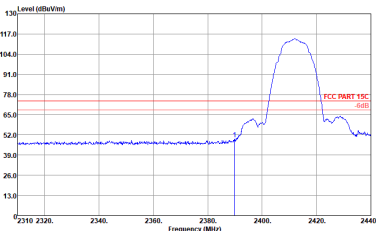
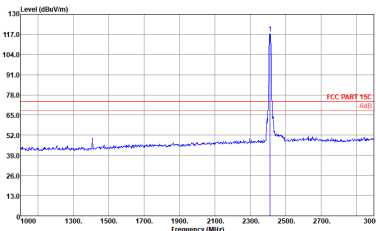
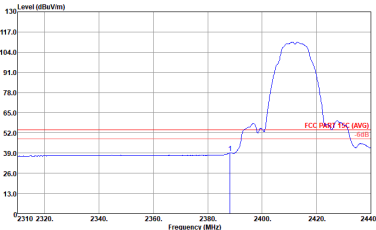
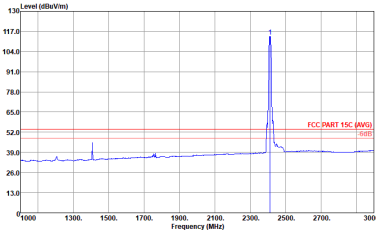
WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																										
ANT	802.11b LF																																																																																																																																																																																										
CDD 4*4	Horizontal	Vertical																																																																																																																																																																																									
QP / Peak	 Site : 03h04-RS Condition : FCC PART 15C 3m G80.1170 0N49927NEW HORIZONTAL Project : RSW-100-00000Hz VSW-300-00000Hz SRT Auto Mode : 1 FREQ : 107908 Plane : 010 Power : Full-directivity <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1</td><td>31.94</td><td>25.75</td><td>-14.25</td><td>40.00</td><td>33.95</td><td>24.14</td><td>0.72</td><td>33.04</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>86.26</td><td>24.75</td><td>-15.25</td><td>40.00</td><td>42.16</td><td>14.12</td><td>1.35</td><td>32.88</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>102.75</td><td>28.30</td><td>-15.70</td><td>43.50</td><td>43.82</td><td>16.10</td><td>1.47</td><td>33.09</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>675.05</td><td>25.91</td><td>-20.09</td><td>46.00</td><td>28.27</td><td>26.36</td><td>3.83</td><td>32.55</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>795.71</td><td>29.64</td><td>-16.36</td><td>46.00</td><td>28.40</td><td>28.61</td><td>4.14</td><td>32.11</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>950.53</td><td>29.74</td><td>-16.26</td><td>46.00</td><td>26.49</td><td>30.84</td><td>4.51</td><td>32.10</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	on	deg	1	31.94	25.75	-14.25	40.00	33.95	24.14	0.72	33.04	---	Peak	HORIZONTAL	2	86.26	24.75	-15.25	40.00	42.16	14.12	1.35	32.88	---	Peak	HORIZONTAL	3	102.75	28.30	-15.70	43.50	43.82	16.10	1.47	33.09	---	Peak	HORIZONTAL	4	675.05	25.91	-20.09	46.00	28.27	26.36	3.83	32.55	---	Peak	HORIZONTAL	5	795.71	29.64	-16.36	46.00	28.40	28.61	4.14	32.11	---	Peak	HORIZONTAL	6	950.53	29.74	-16.26	46.00	26.49	30.84	4.51	32.10	---	Peak	HORIZONTAL	 Site : 03h04-RS Condition : FCC PART 15C 3m G80.1170 0N49927NEW VERTICAL Project : RSW-100-00000Hz VSW-300-00000Hz SRT Auto Mode : 1 FREQ : 107908 Plane : 010 Power : Full-directivity <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1</td><td>30.97</td><td>36.71</td><td>-3.29</td><td>40.00</td><td>44.24</td><td>24.76</td><td>0.70</td><td>33.08</td><td>100</td><td>55</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>41.64</td><td>33.68</td><td>-6.32</td><td>40.00</td><td>47.41</td><td>18.46</td><td>0.91</td><td>33.10</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>97.08</td><td>34.00</td><td>-9.00</td><td>43.50</td><td>50.52</td><td>14.91</td><td>1.41</td><td>32.84</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>660.36</td><td>24.04</td><td>-21.96</td><td>46.00</td><td>27.48</td><td>25.76</td><td>3.60</td><td>32.80</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>789.51</td><td>29.53</td><td>-16.47</td><td>46.00</td><td>28.97</td><td>28.46</td><td>4.11</td><td>32.71</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>958.29</td><td>29.97</td><td>-16.03</td><td>46.00</td><td>26.82</td><td>30.70</td><td>4.53</td><td>32.08</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	on	deg	1	30.97	36.71	-3.29	40.00	44.24	24.76	0.70	33.08	100	55	Peak	VERTICAL	2	41.64	33.68	-6.32	40.00	47.41	18.46	0.91	33.10	---	Peak	VERTICAL	3	97.08	34.00	-9.00	43.50	50.52	14.91	1.41	32.84	---	Peak	VERTICAL	4	660.36	24.04	-21.96	46.00	27.48	25.76	3.60	32.80	---	Peak	VERTICAL	5	789.51	29.53	-16.47	46.00	28.97	28.46	4.11	32.71	---	Peak	VERTICAL	6	958.29	29.97	-16.03	46.00	26.82	30.70	4.53	32.08	---	Peak	VERTICAL
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For Co-location Mode:

2.4GHz 2400~2483.5MHz

WIFI 802.11b+Part 96 LTE Band 48- BW 20M (Band Edge @ 3m) ---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																										
ANT	802.11b CH01 2412MHz																																																																										
CDD 4*4	Horizontal					Fundamental																																																																					
Peak																																																																											
	Site : 030805-KS Condition : FCC PART 15C 3e 3117 00218662 HORIZONTAL Project : RBR 1000 0000Hz VBR 3000 0000Hz SRT Auto Mode : (FR) 102908 Plane : Y Full-directivity #16 Powersetting : #20 Sample 1 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2389.82</td><td>49.37</td><td>-24.63</td><td>74.00</td><td>48.63</td><td>30.50</td><td>7.10</td><td>36.86</td><td>203</td><td>118 Peak HORIZONTAL</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg			1	2389.82	49.37	-24.63	74.00	48.63	30.50	7.10	36.86	203	118 Peak HORIZONTAL	Site : 030805-KS Condition : FCC PART 15C 3e 3117 00218662 HORIZONTAL Project : RBR 1000 0000Hz VBR 3000 0000Hz SRT Auto Mode : (FR) 102908 Plane : Y Full-directivity #16 Powersetting : #20 Sample 1 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>117.80</td><td>43.80</td><td>74.00</td><td>116.95</td><td>30.57</td><td>7.13</td><td>36.85</td><td>203</td><td>118 Peak HORIZONTAL</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg			1	2412.00	117.80	43.80	74.00	116.95	30.57	7.13	36.85	203
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																	
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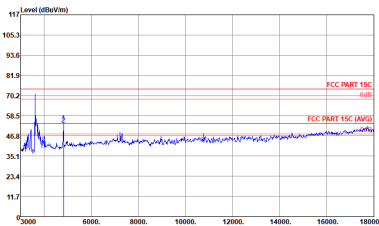
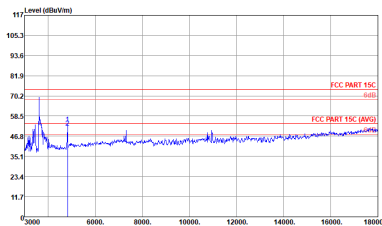


WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m									
ANT		802.11b CH01 2412MHz									
CDD 4*4		Vertical					Fundamental				
Peak											



2.4GHz 2400~2483.5MHz

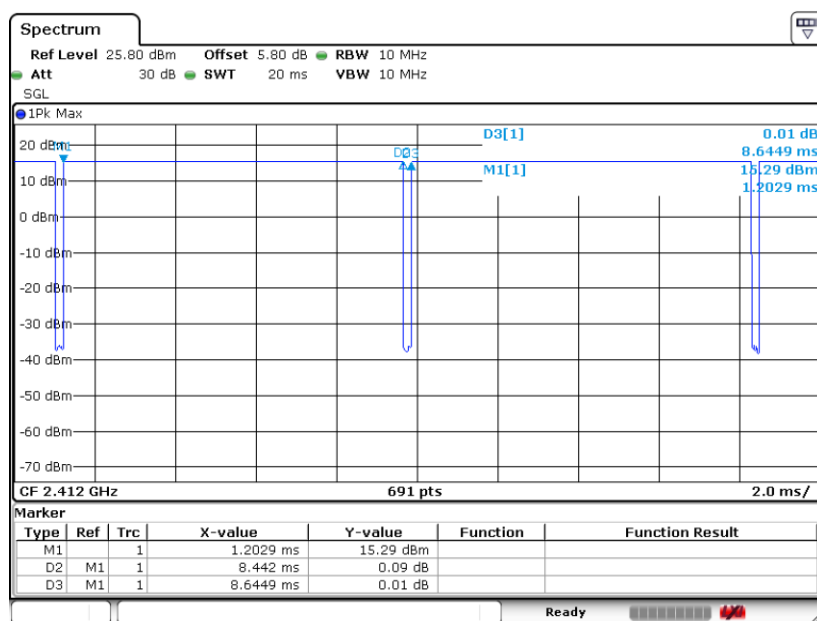
WIFI 802.11b+Part 96 LTE Band 48- BW 20M (Harmonic @ 3m)---Sample 1

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																											
ANT	802.11b CH01 2412MHz																																																																																											
CDD 4*4	Horizontal	Vertical																																																																																										
Peak Avg.	 Site : 030H05-KS Condition : FCC PART 15C 3m 3117 00218663 HORIZONTAL Power : 1000.000000 WIRE-3000.000000 SWT Auto Project : FR102908 Mode : 15 Plane : Y Full-directivity : Y IMEI : 876 Powersetting : 20 Sample 1 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4830.00</td><td>54.61</td><td>-19.39</td><td>74.00</td><td>75.13</td><td>34.61</td><td>10.25</td><td>65.38</td><td>255</td><td>38</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>1</td><td>4830.00</td><td>53.43</td><td>-0.57</td><td>54.00</td><td>73.95</td><td>34.61</td><td>10.25</td><td>65.38</td><td>255</td><td>38</td><td>Average</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phase	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	dB	cm	deg	1	4830.00	54.61	-19.39	74.00	75.13	34.61	10.25	65.38	255	38	Peak	HORIZONTAL	2	1	4830.00	53.43	-0.57	54.00	73.95	34.61	10.25	65.38	255	38	Average	HORIZONTAL	 Site : 030H05-KS Condition : FCC PART 15C 3m 3117 00218663 VERTICAL Power : 1000.000000 WIRE-3000.000000 SWT Auto Project : FR102908 Mode : 15 Plane : Y Full-directivity : Y IMEI : 876 Powersetting : 20 Sample 1 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4830.00</td><td>54.01</td><td>-19.99</td><td>74.00</td><td>74.53</td><td>34.61</td><td>10.25</td><td>65.38</td><td>302</td><td>360</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>1</td><td>4830.00</td><td>51.92</td><td>-2.08</td><td>54.00</td><td>72.44</td><td>34.61</td><td>10.25</td><td>65.38</td><td>302</td><td>360</td><td>Average</td><td>VERTICAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phase	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	dB	cm	deg	1	4830.00	54.01	-19.99	74.00	74.53	34.61	10.25	65.38	302	360	Peak	VERTICAL	2	1	4830.00	51.92	-2.08	54.00	72.44	34.61	10.25	65.38	302	360	Average	VERTICAL
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Poss	T/Poss	Remark	Pol/Phase																																																																																				
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Appendix E. Duty Cycle Plots

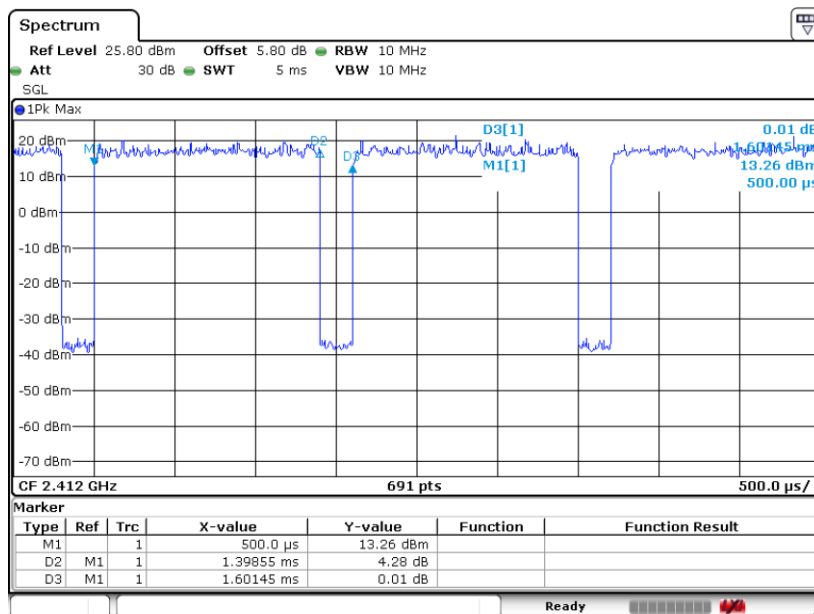
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2+3+4	802.11b	97.65	8.442	0.118	0.12kHz
1+2+3+4	802.11g	87.33	1.399	0.715	0.75kHz
1+2+3+4	802.11ax HE20	83.73	1.029	0.972	1kHz
1+2+3+4	802.11ax HE40	73.36	0.551	1.816	2kHz

802.11b





802.11g



802.11ax HE20

