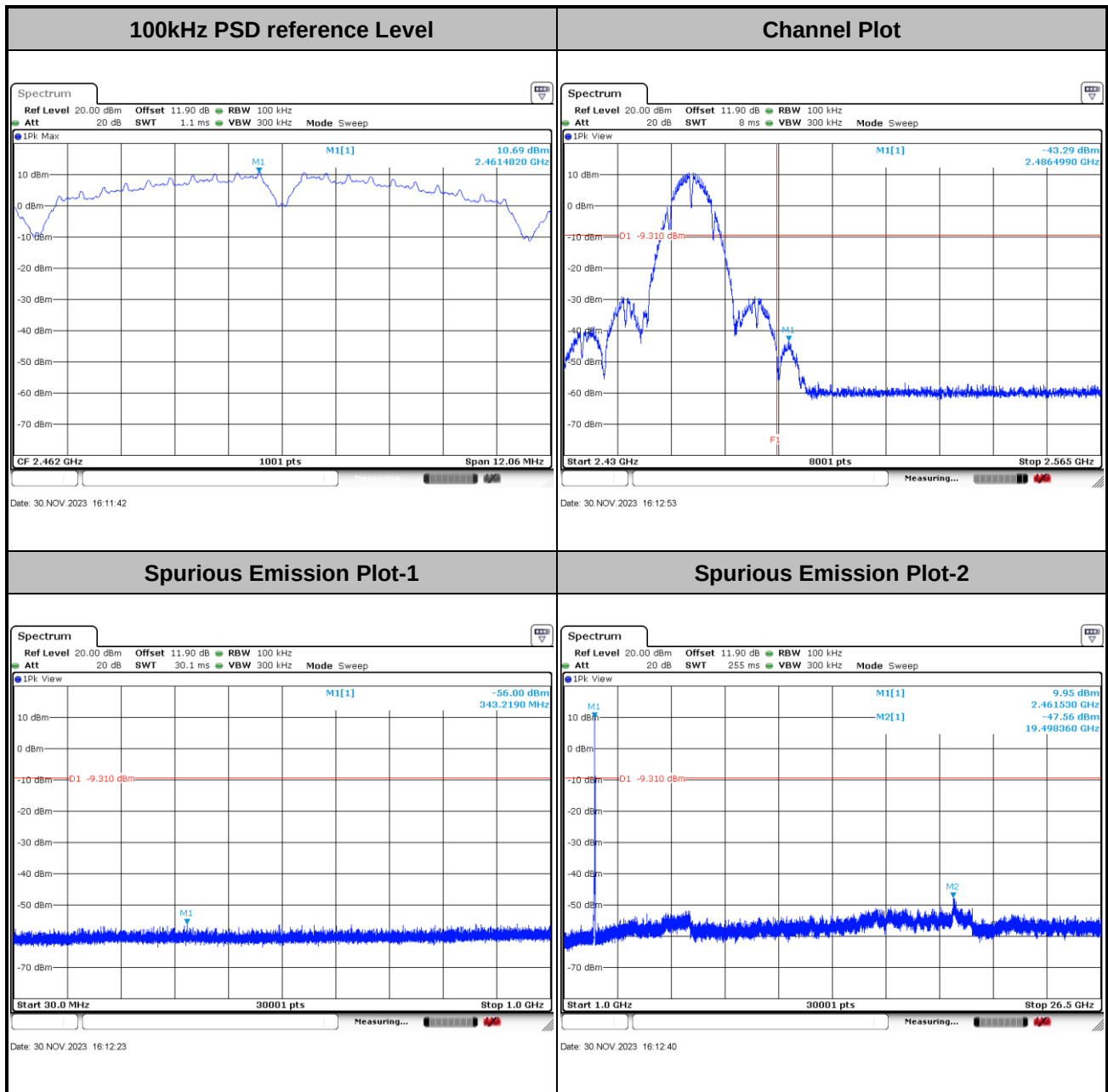




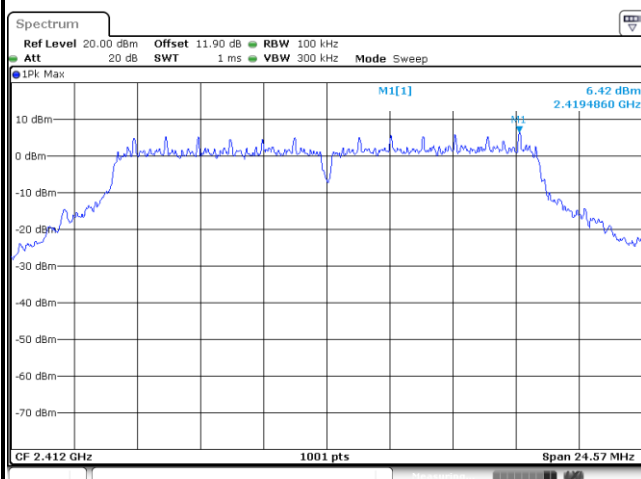
Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----





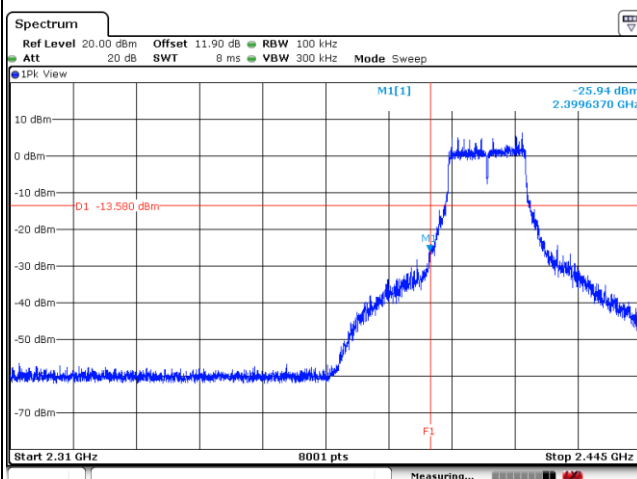
Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----

100kHz PSD reference Level



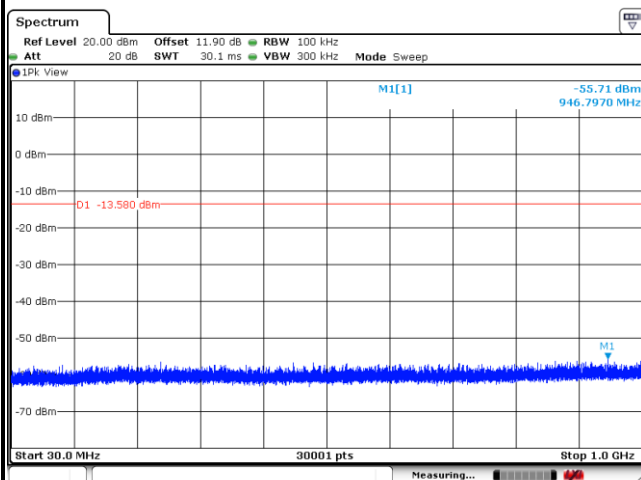
Date: 30 NOV 2023 16:18:53

Channel Plot



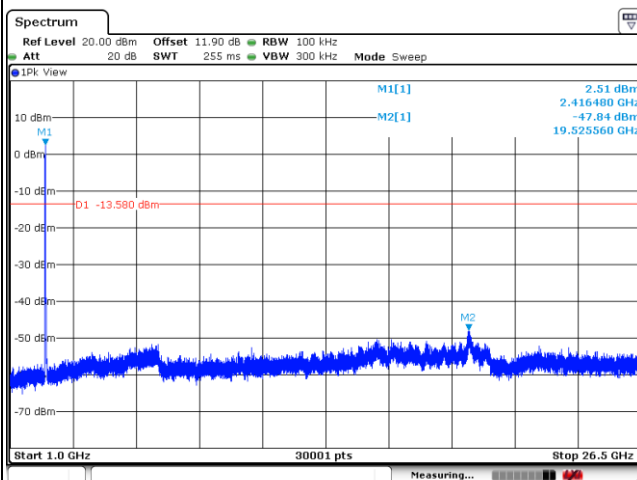
Date: 30 NOV 2023 16:20:17

Spurious Emission Plot-1



Date: 30 NOV 2023 16:19:25

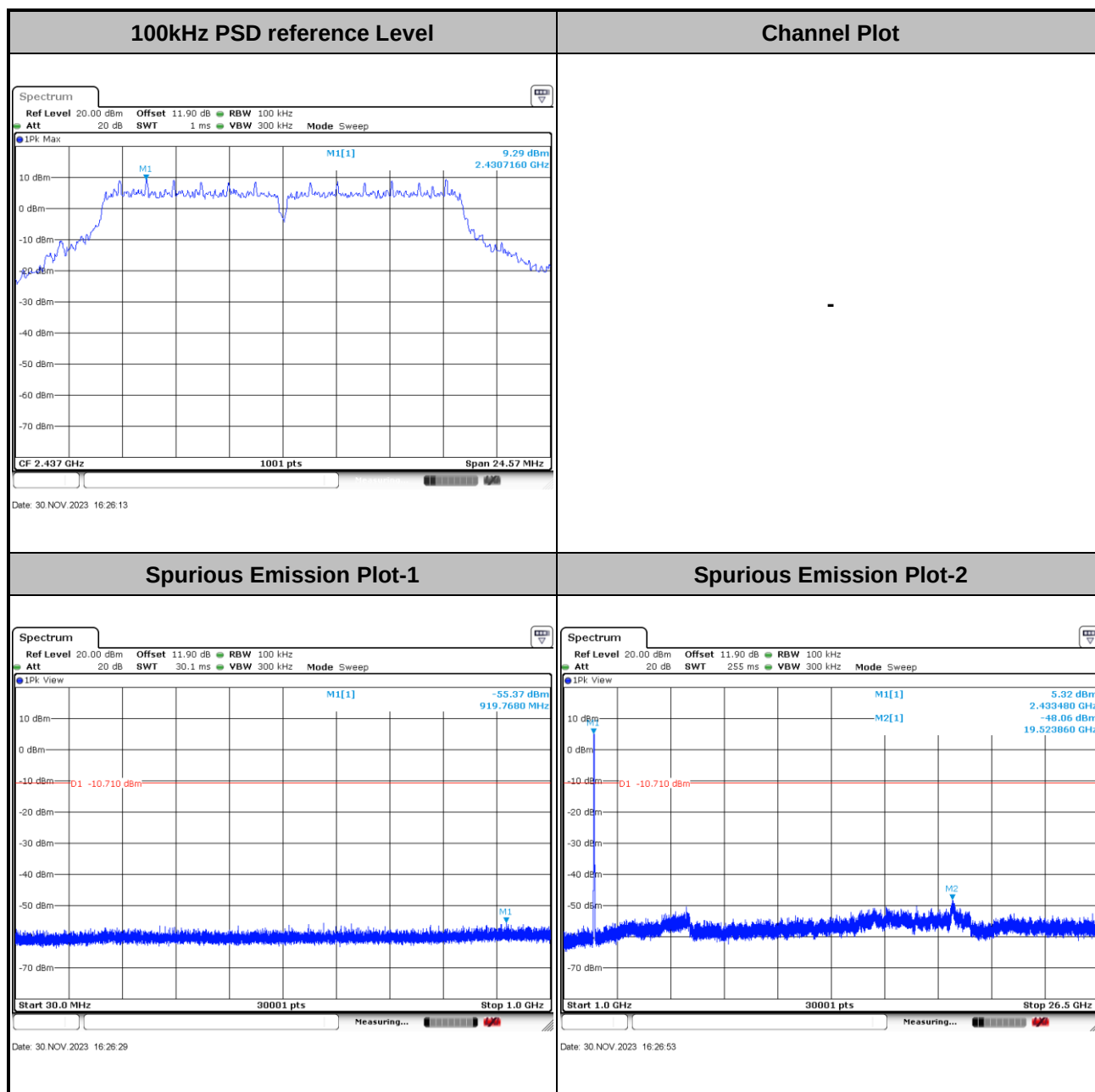
Spurious Emission Plot-2



Date: 30 NOV 2023 16:19:43

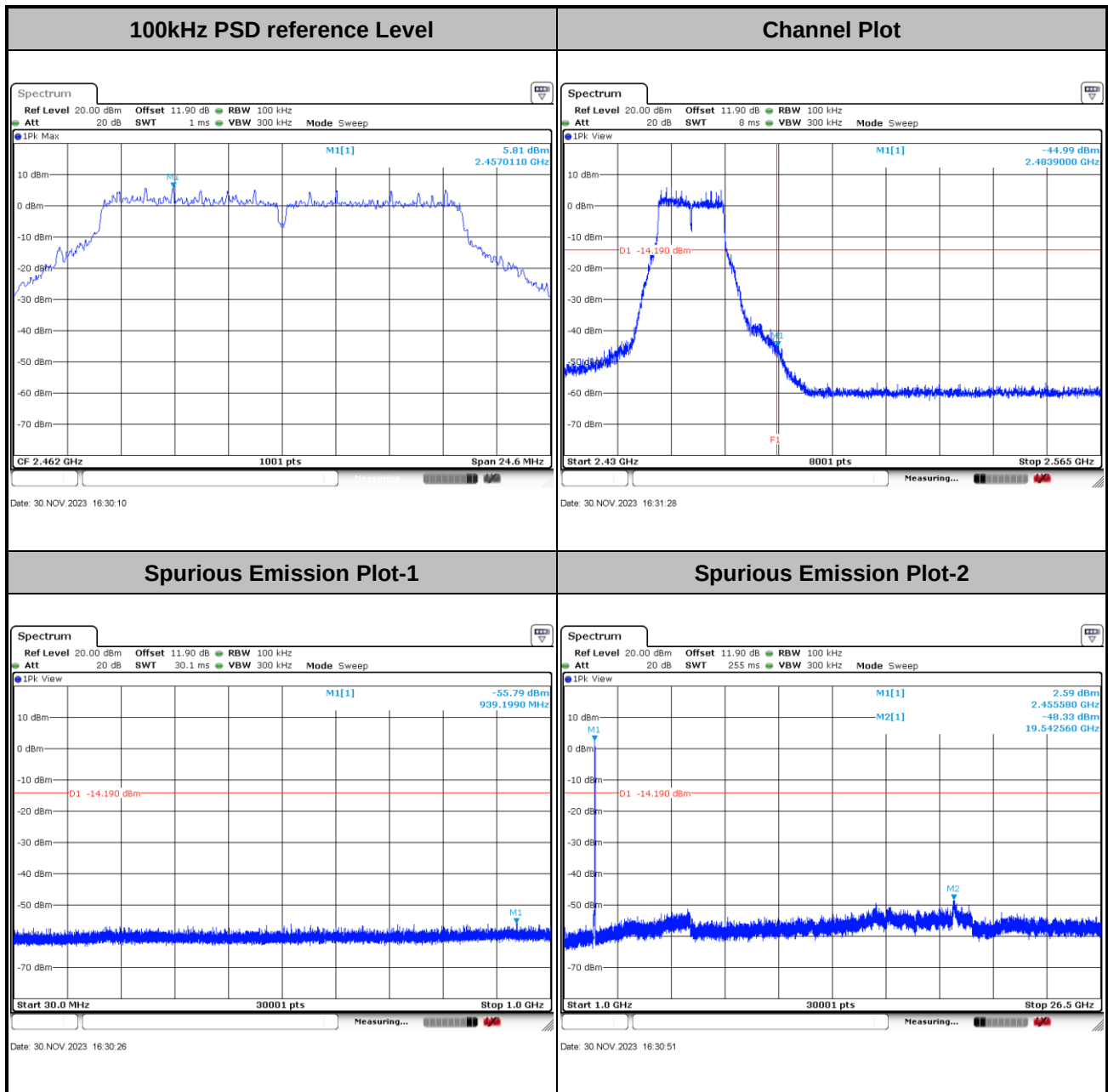


Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----



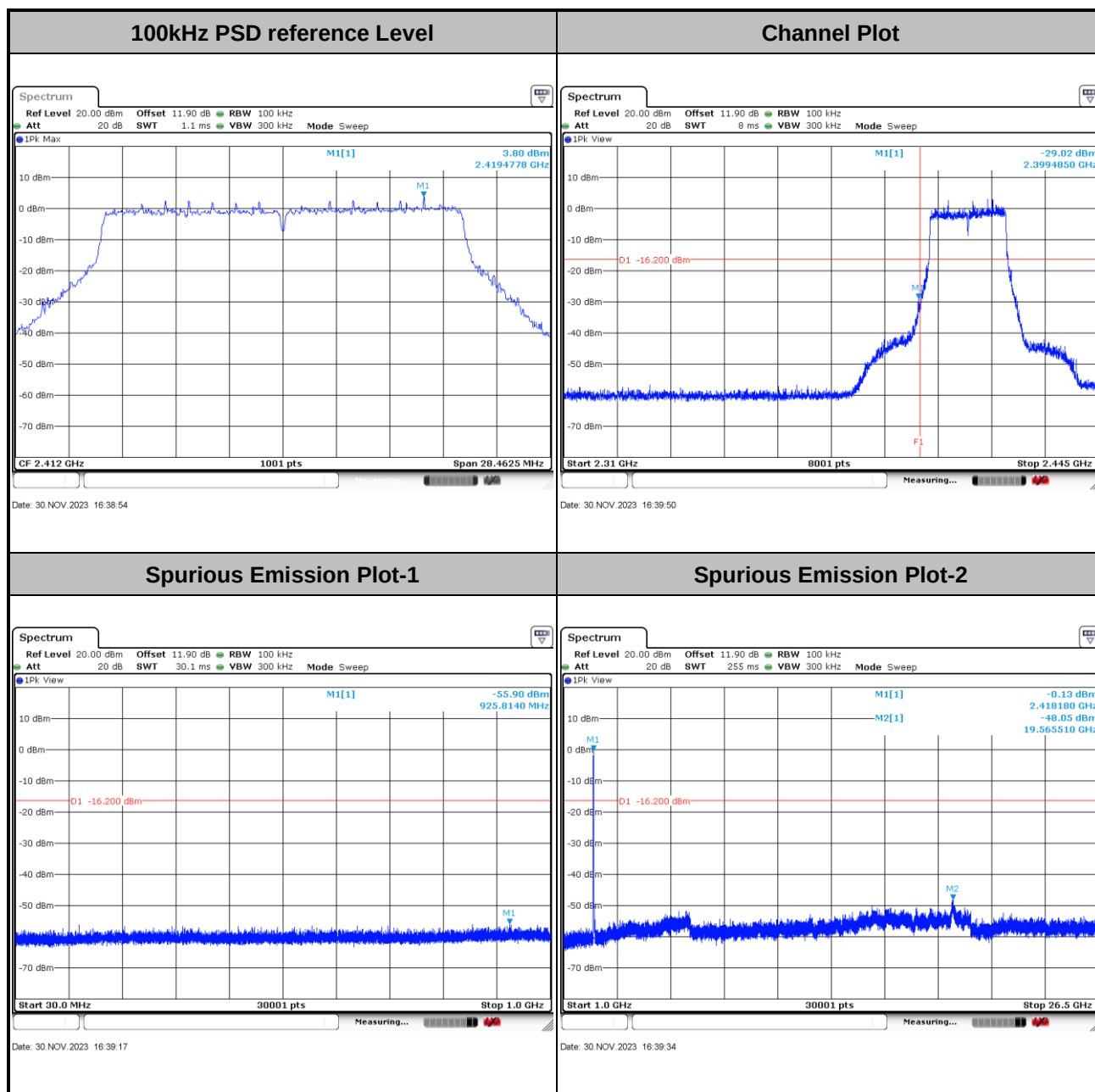


Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----





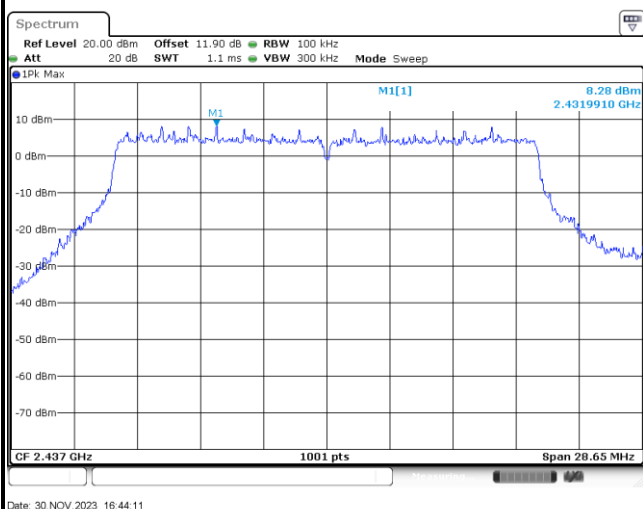
Test Mode :	802.11be ETH20	Test Channel :	01
-------------	----------------	----------------	----





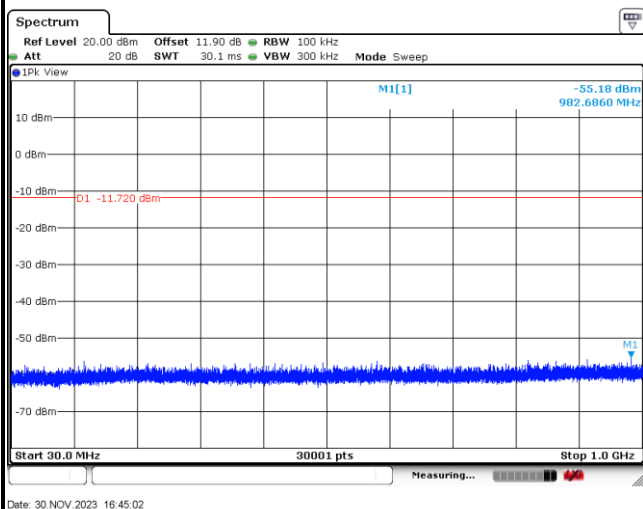
Test Mode :	802.11be ETH20	Test Channel :	06
-------------	----------------	----------------	----

100kHz PSD reference Level

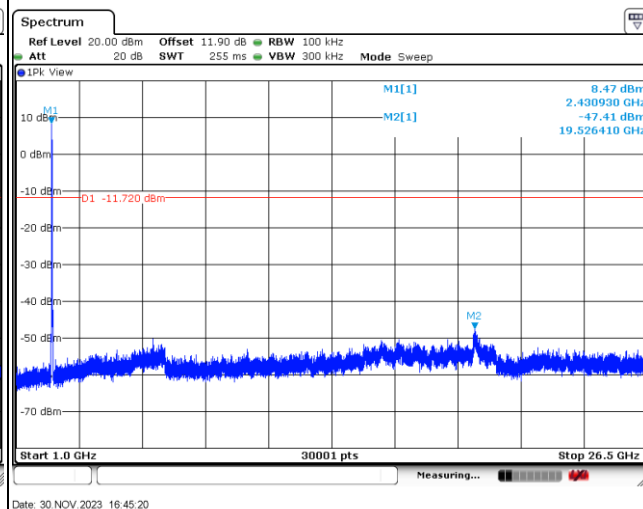


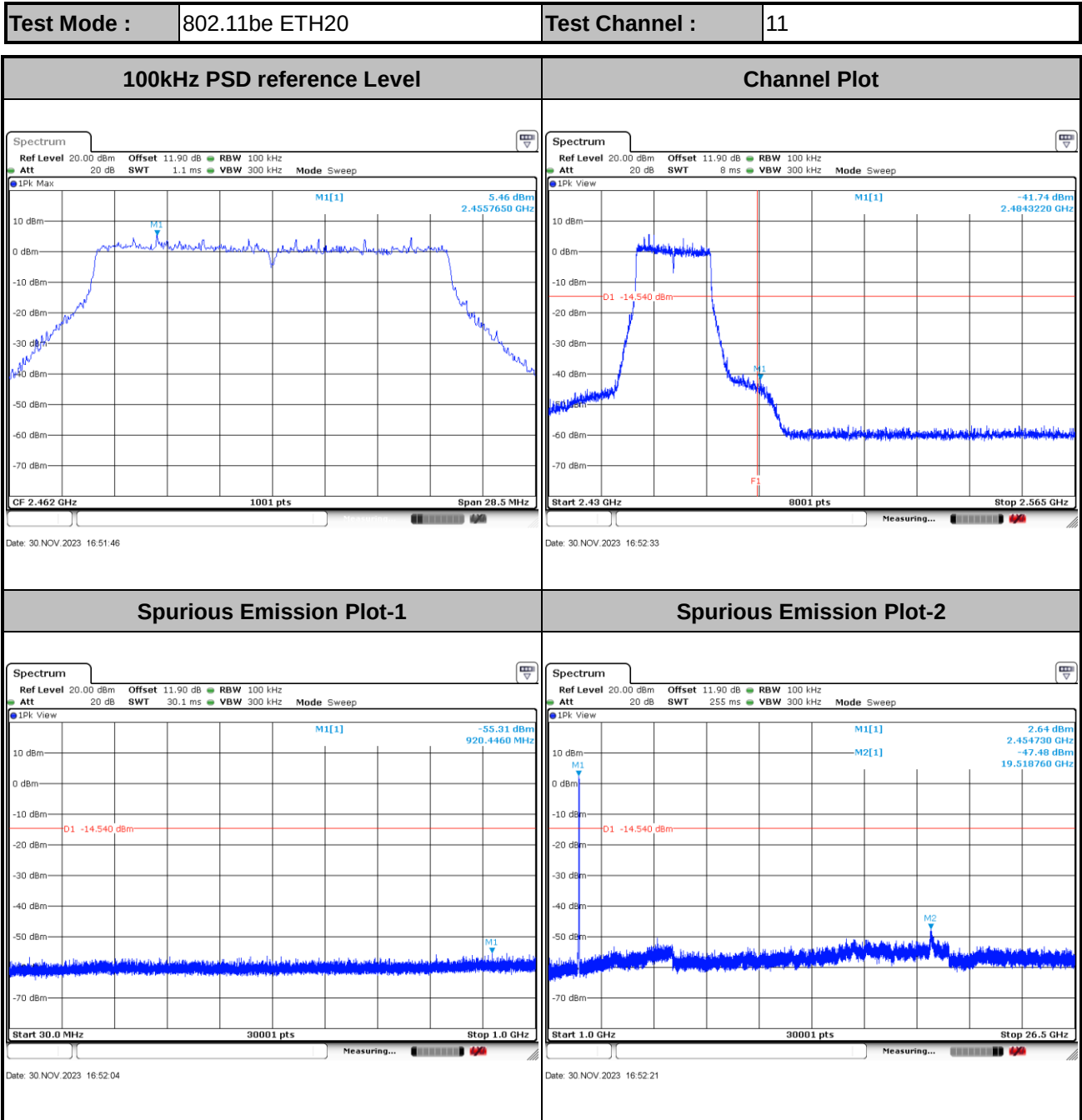
Channel Plot

Spurious Emission Plot-1



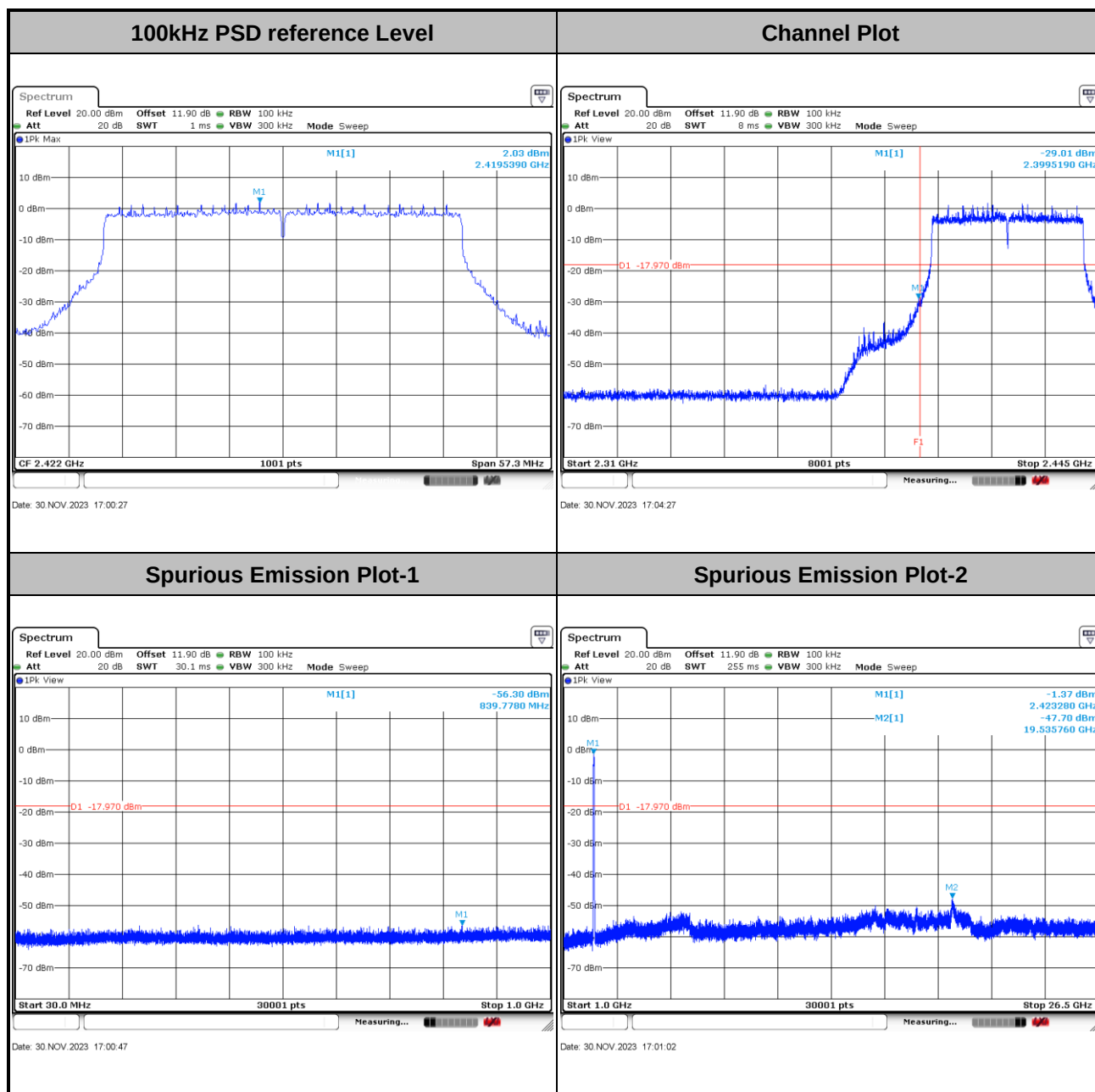
Spurious Emission Plot-2

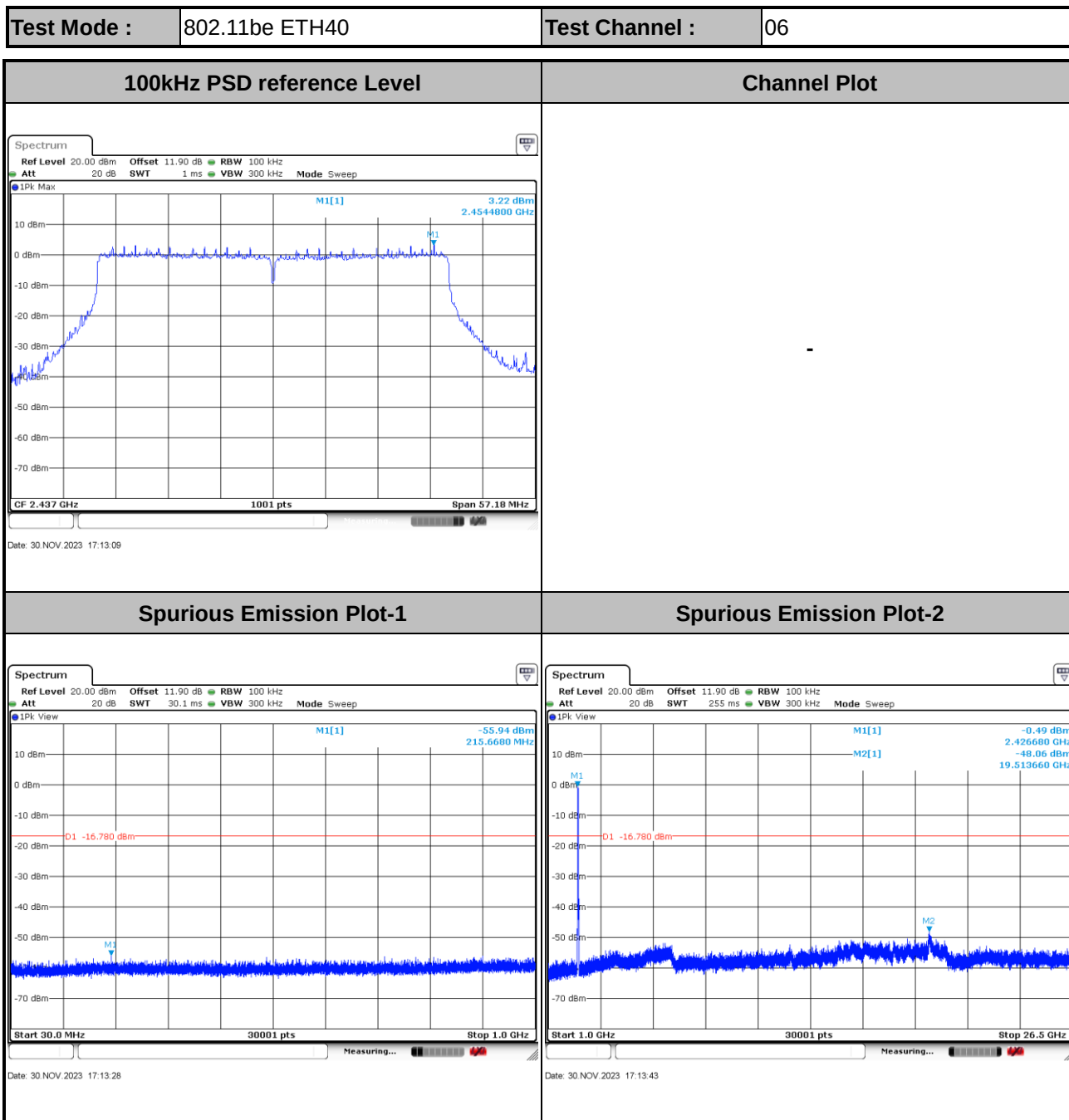






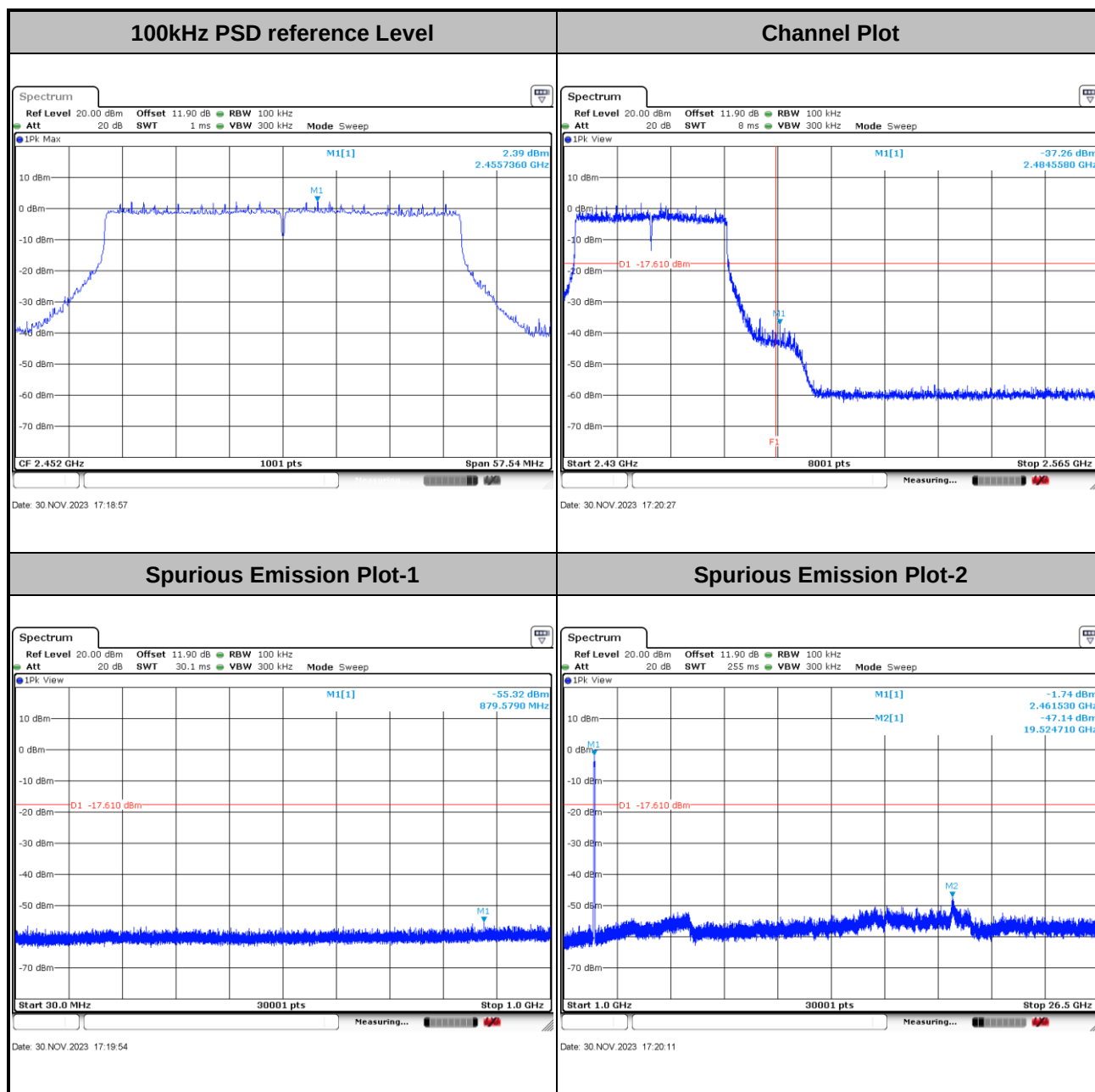
Test Mode :	802.11be ETH40	Test Channel :	03
-------------	----------------	----------------	----







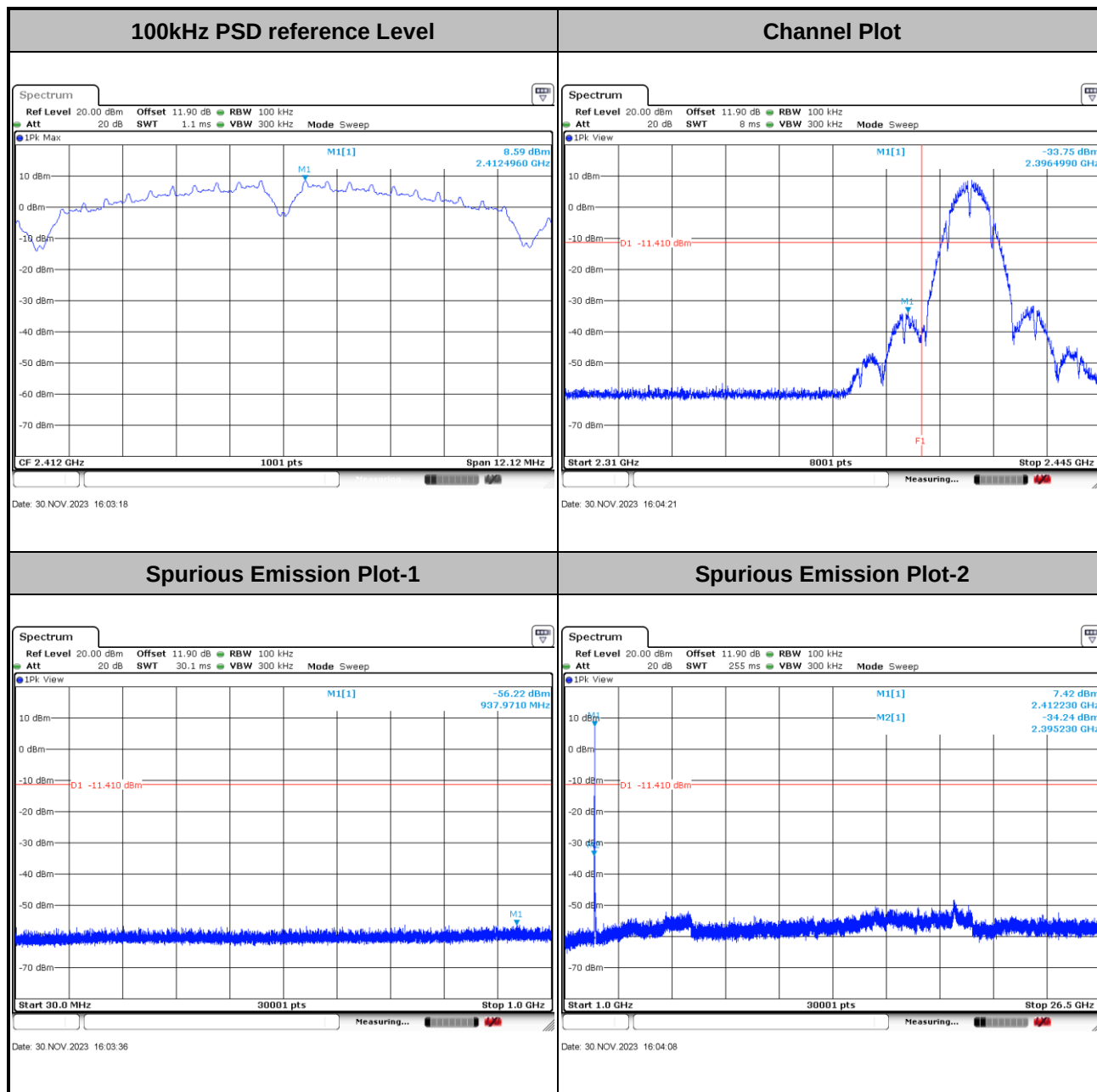
Test Mode :	802.11be ETH40	Test Channel :	09
-------------	----------------	----------------	----

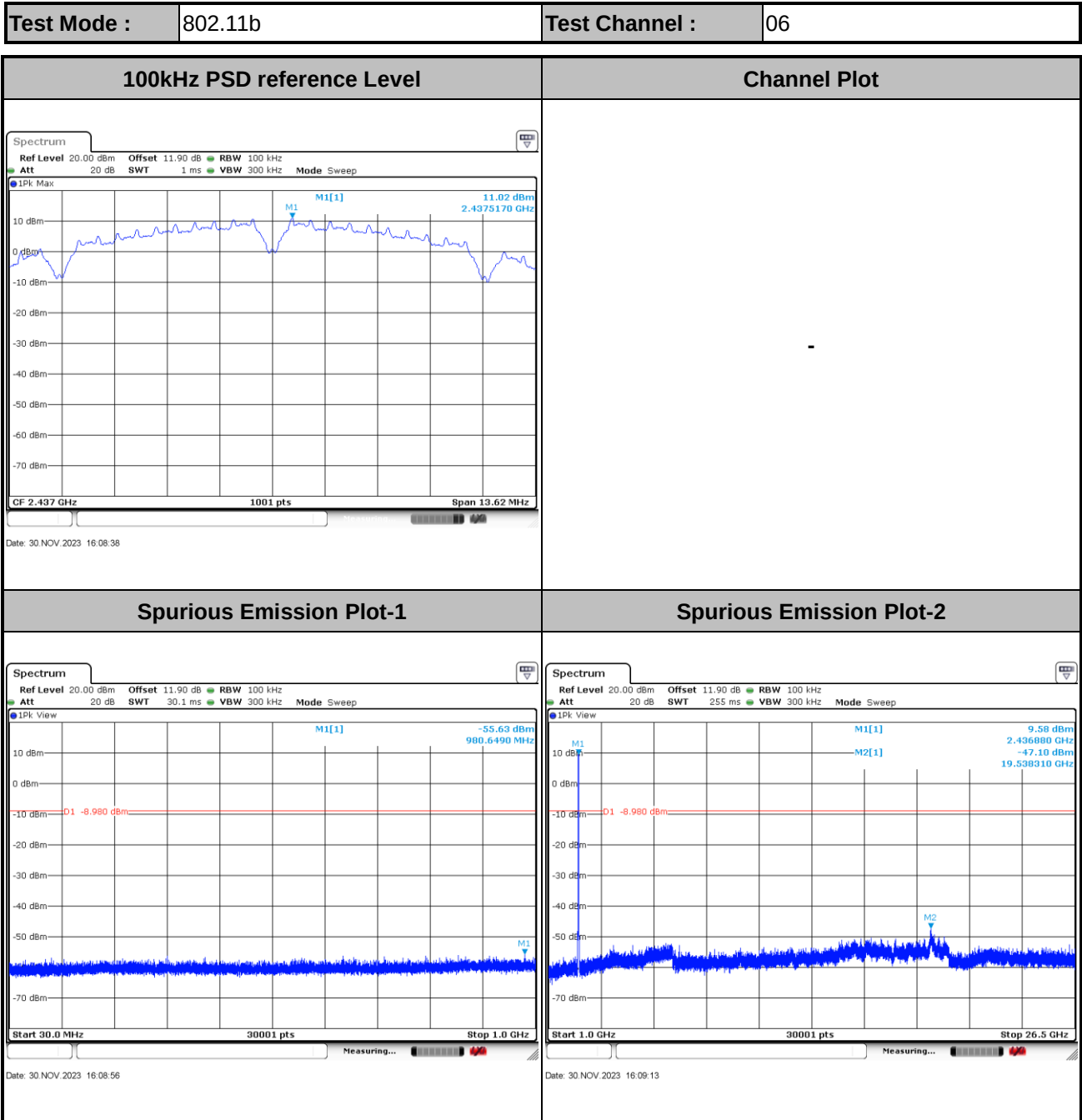




Number of TX = 2, Ant. 5+6(6) (Measured)

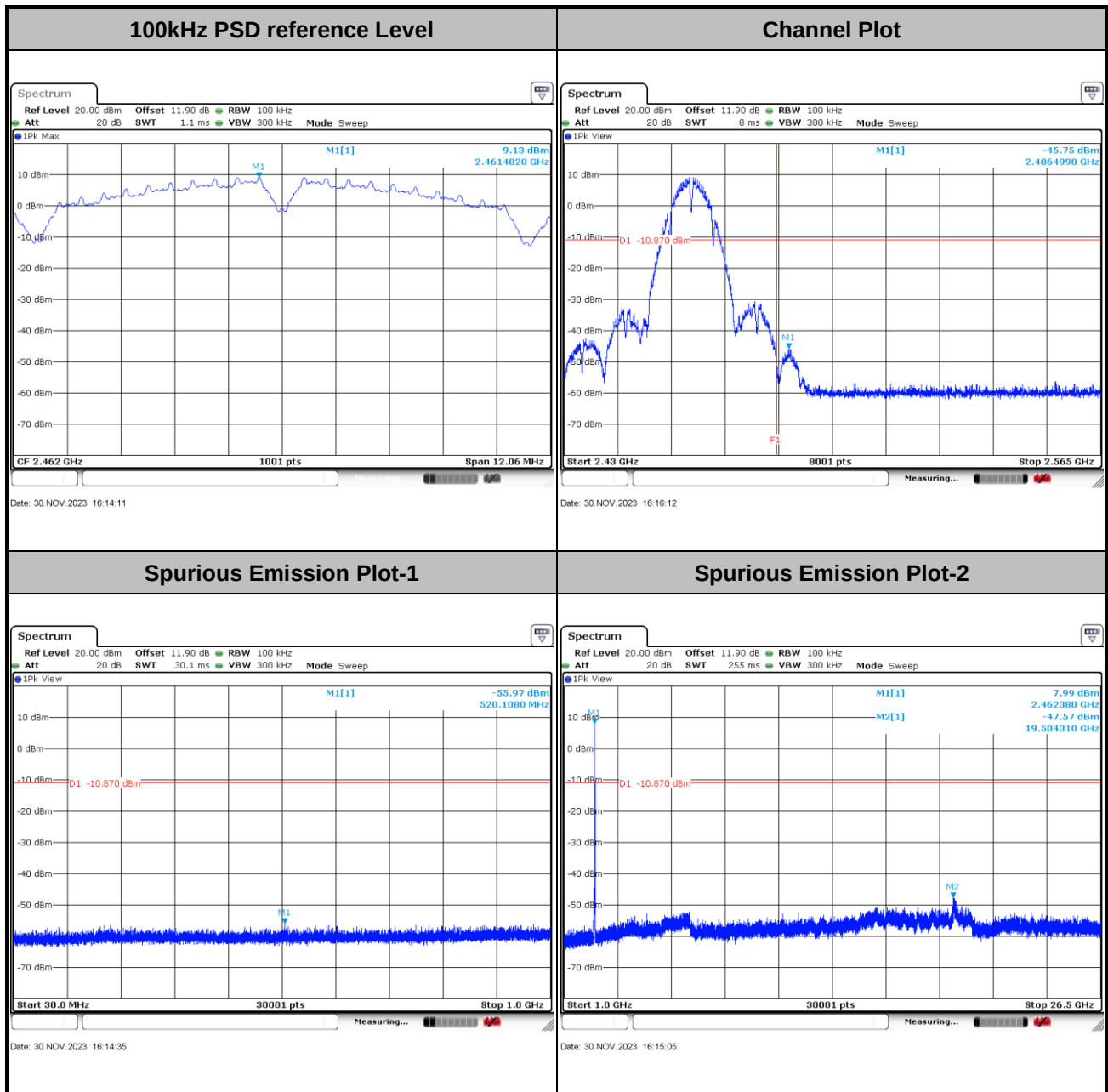
Test Mode :	802.11b	Test Channel :	01
-------------	---------	----------------	----







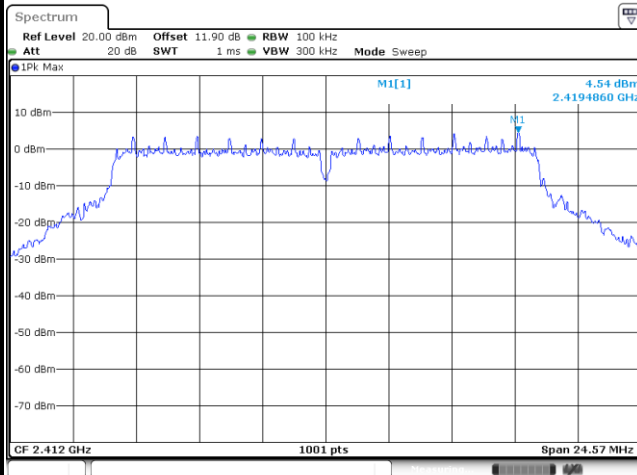
Test Mode :	802.11b	Test Channel :	11
-------------	---------	----------------	----





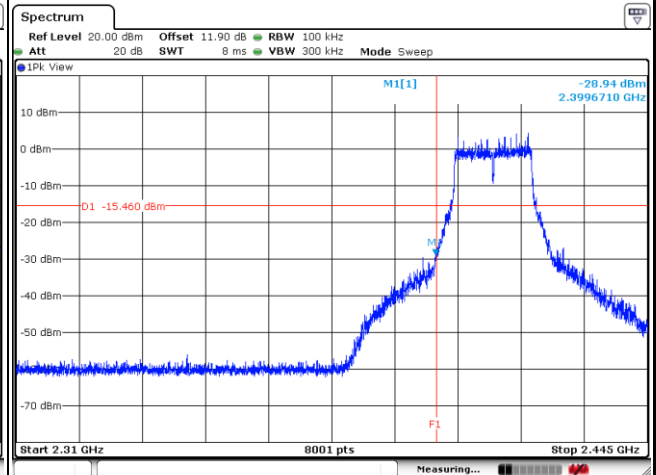
Test Mode :	802.11g	Test Channel :	01
-------------	---------	----------------	----

100kHz PSD reference Level



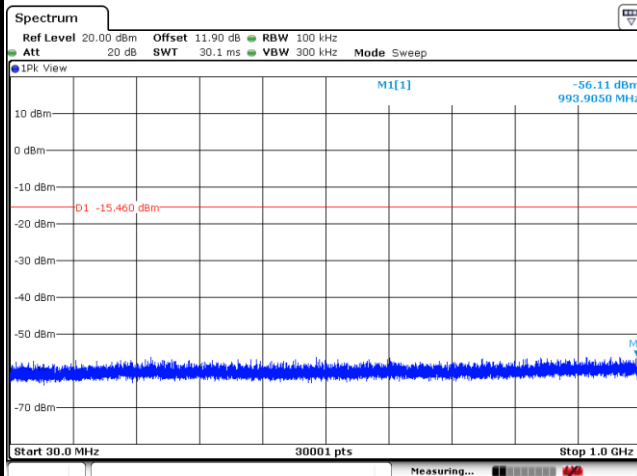
Date: 30 NOV 2023 16:21:51

Channel Plot



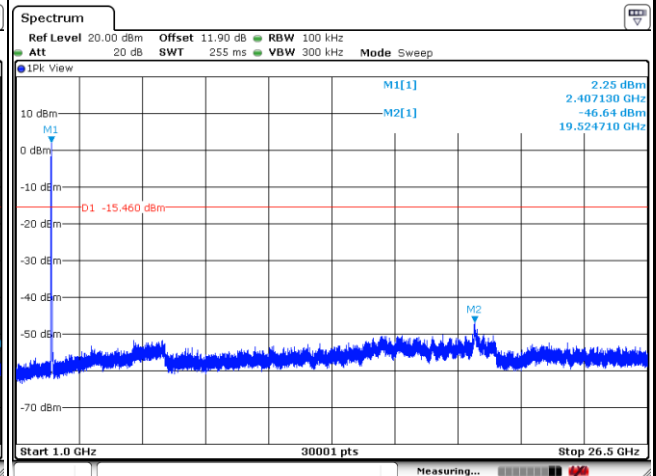
Date: 30 NOV 2023 16:23:47

Spurious Emission Plot-1



Date: 30 NOV 2023 16:22:14

Spurious Emission Plot-2

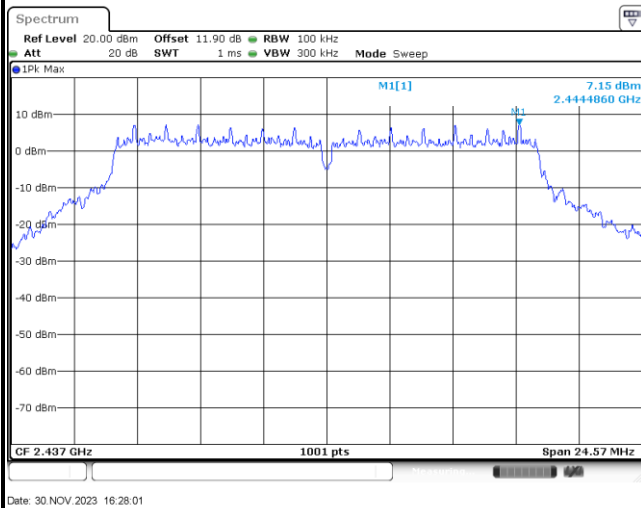


Date: 30 NOV 2023 16:23:24



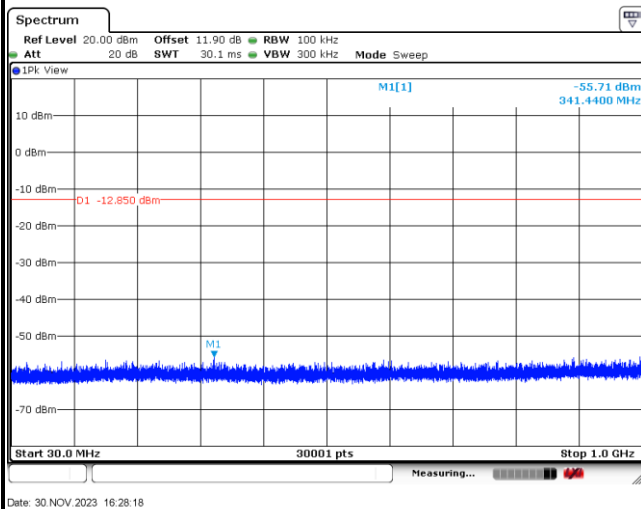
Test Mode :	802.11g	Test Channel :	06
-------------	---------	----------------	----

100kHz PSD reference Level

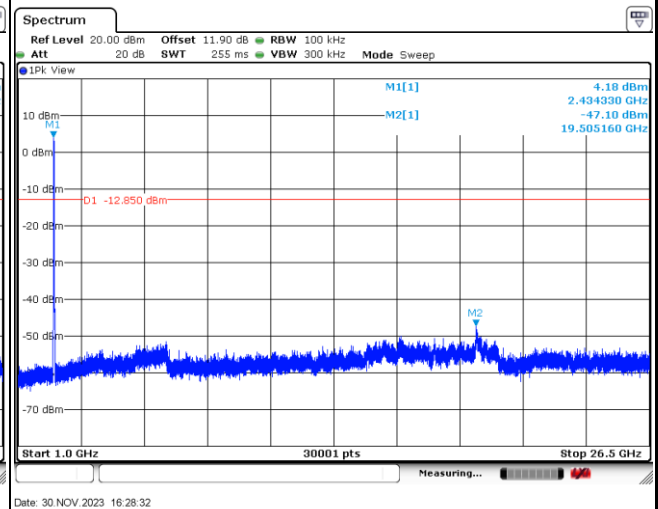


Channel Plot

Spurious Emission Plot-1

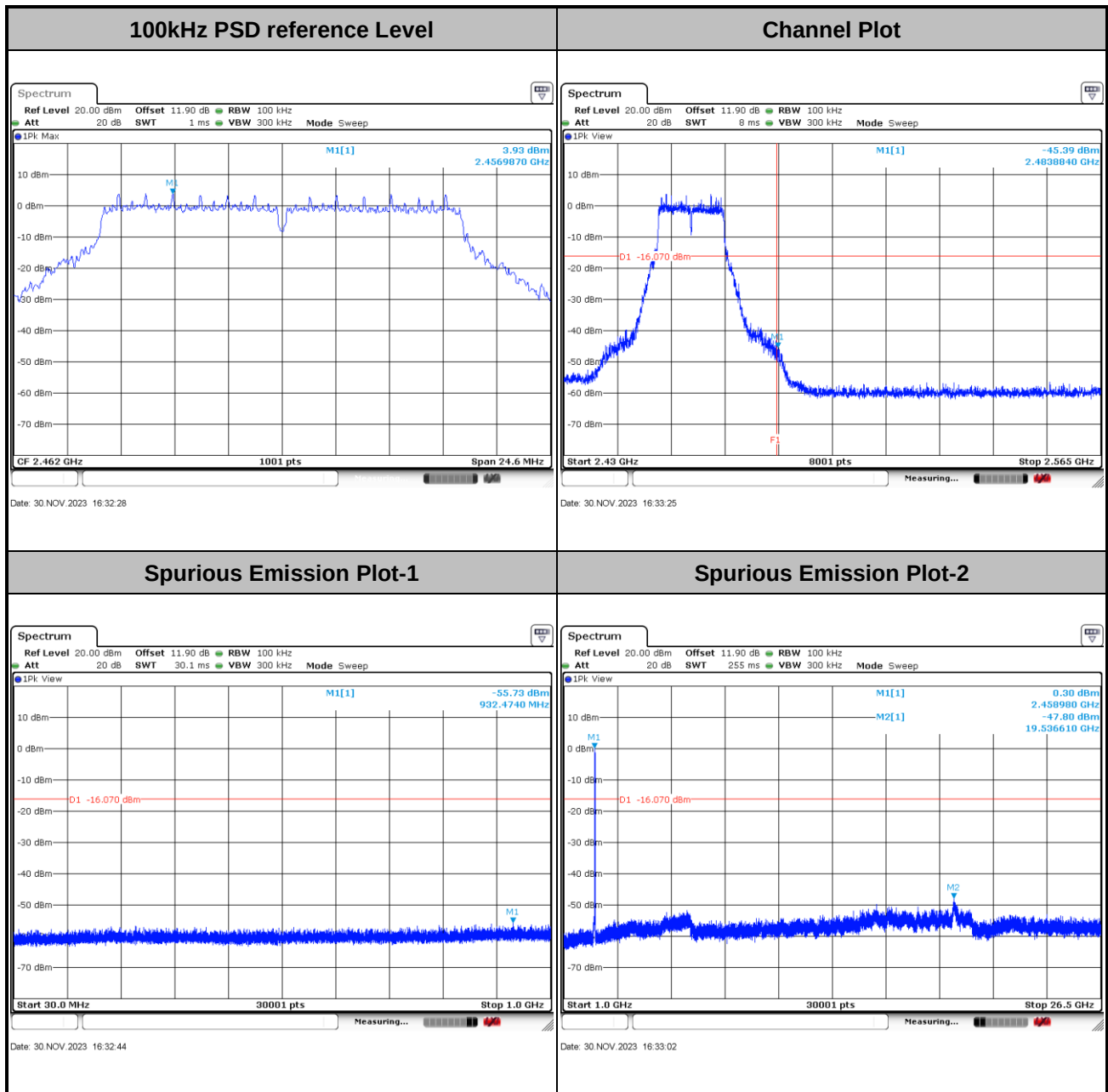


Spurious Emission Plot-2



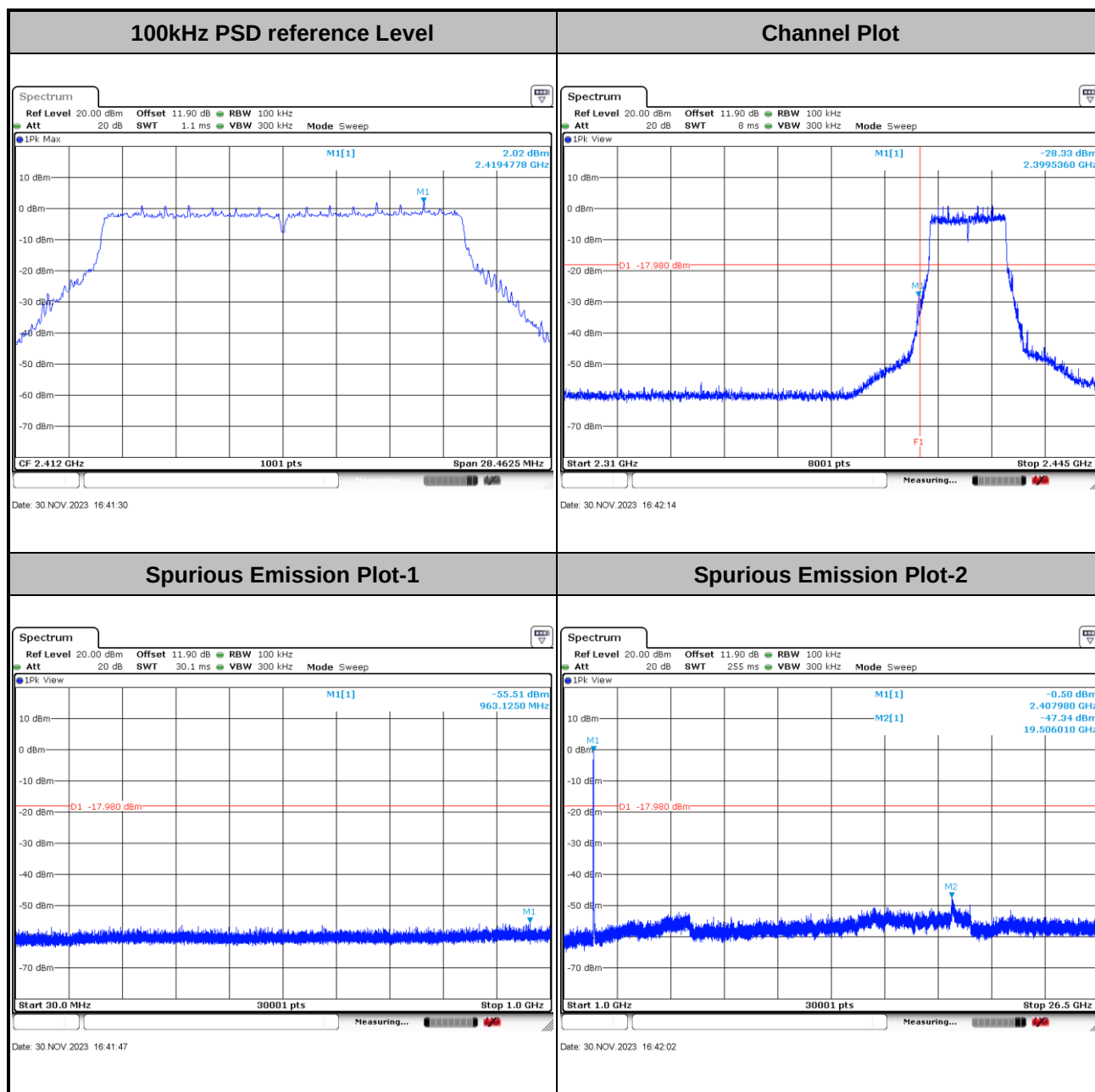


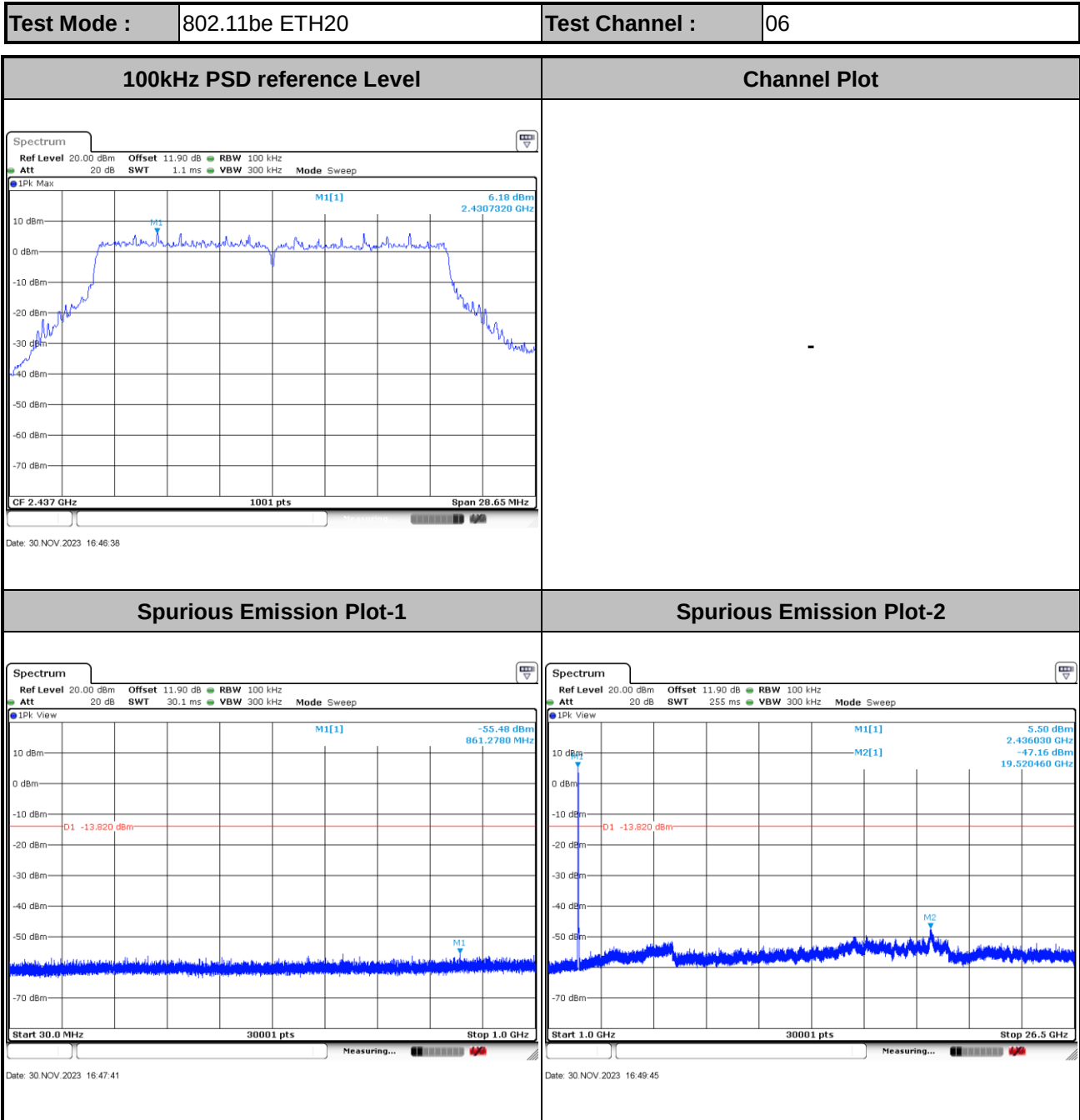
Test Mode :	802.11g	Test Channel :	11
-------------	---------	----------------	----





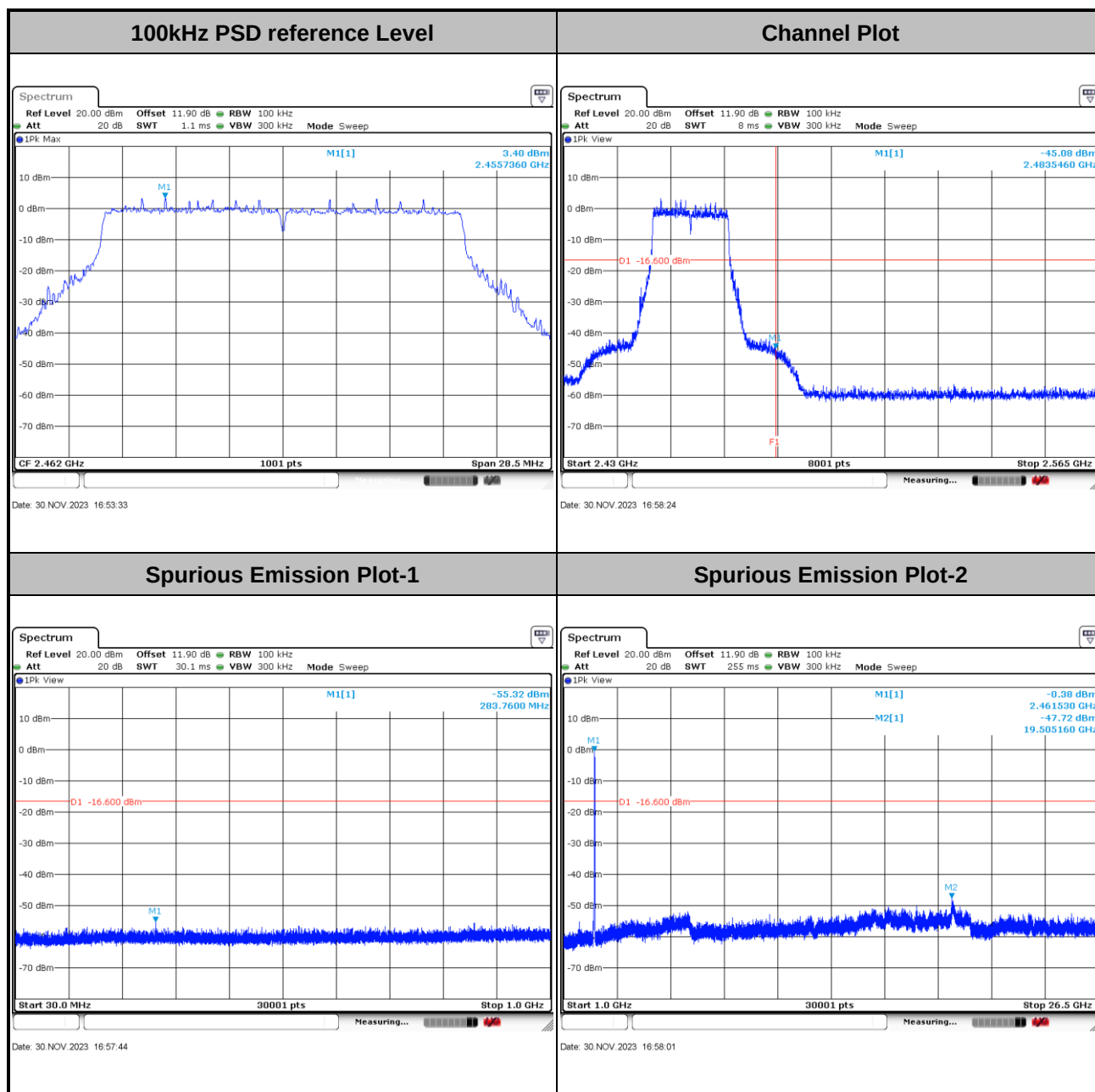
Test Mode :	802.11be ETH20	Test Channel :	01
-------------	----------------	----------------	----





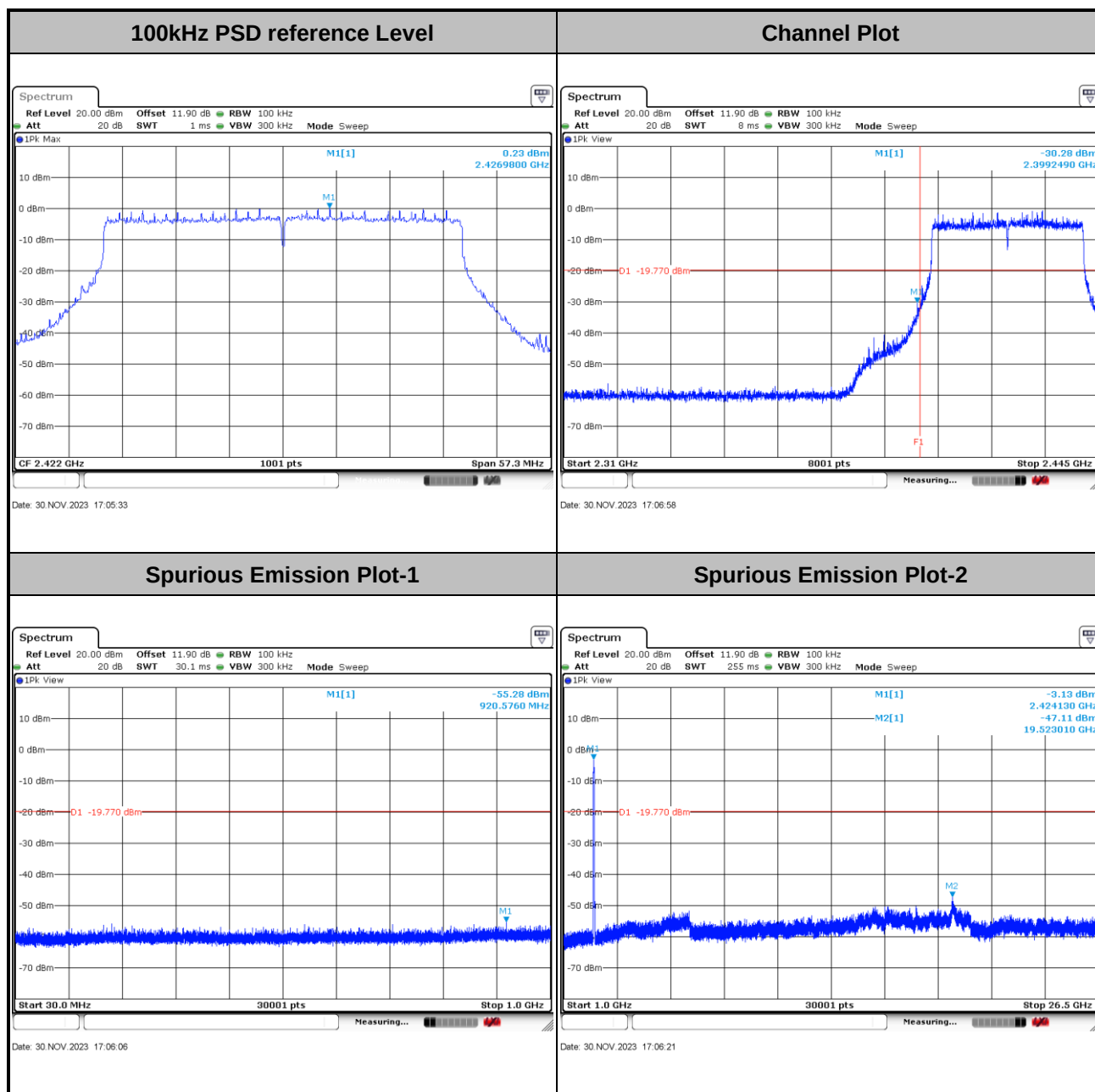


Test Mode :	802.11be ETH20	Test Channel :	11
-------------	----------------	----------------	----





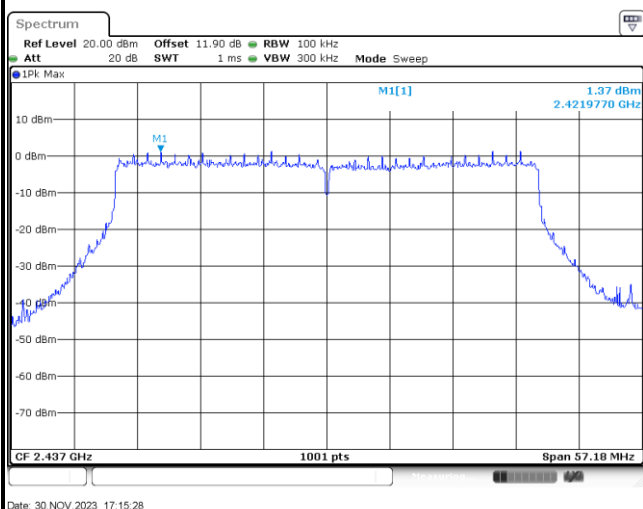
Test Mode :	802.11be ETH40	Test Channel :	03
-------------	----------------	----------------	----





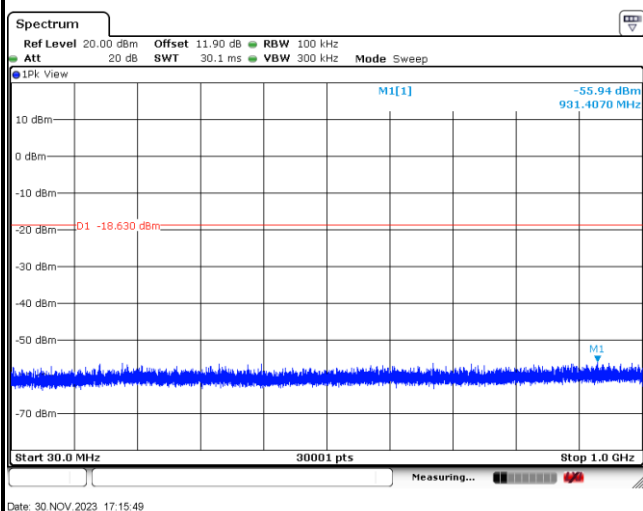
Test Mode :	802.11be ETH40	Test Channel :	06
-------------	----------------	----------------	----

100kHz PSD reference Level

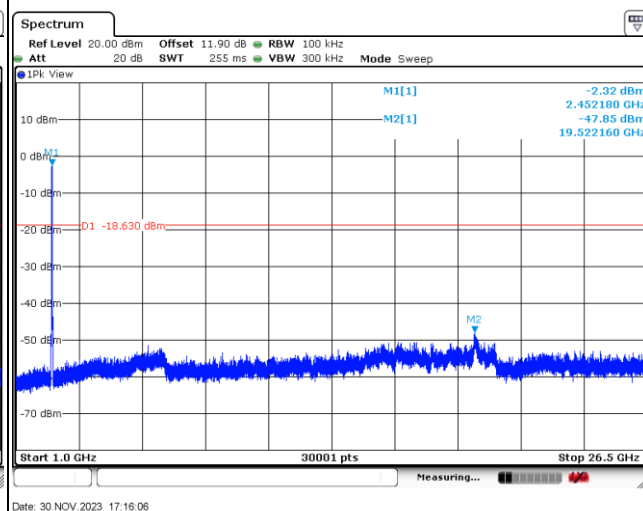


Channel Plot

Spurious Emission Plot-1

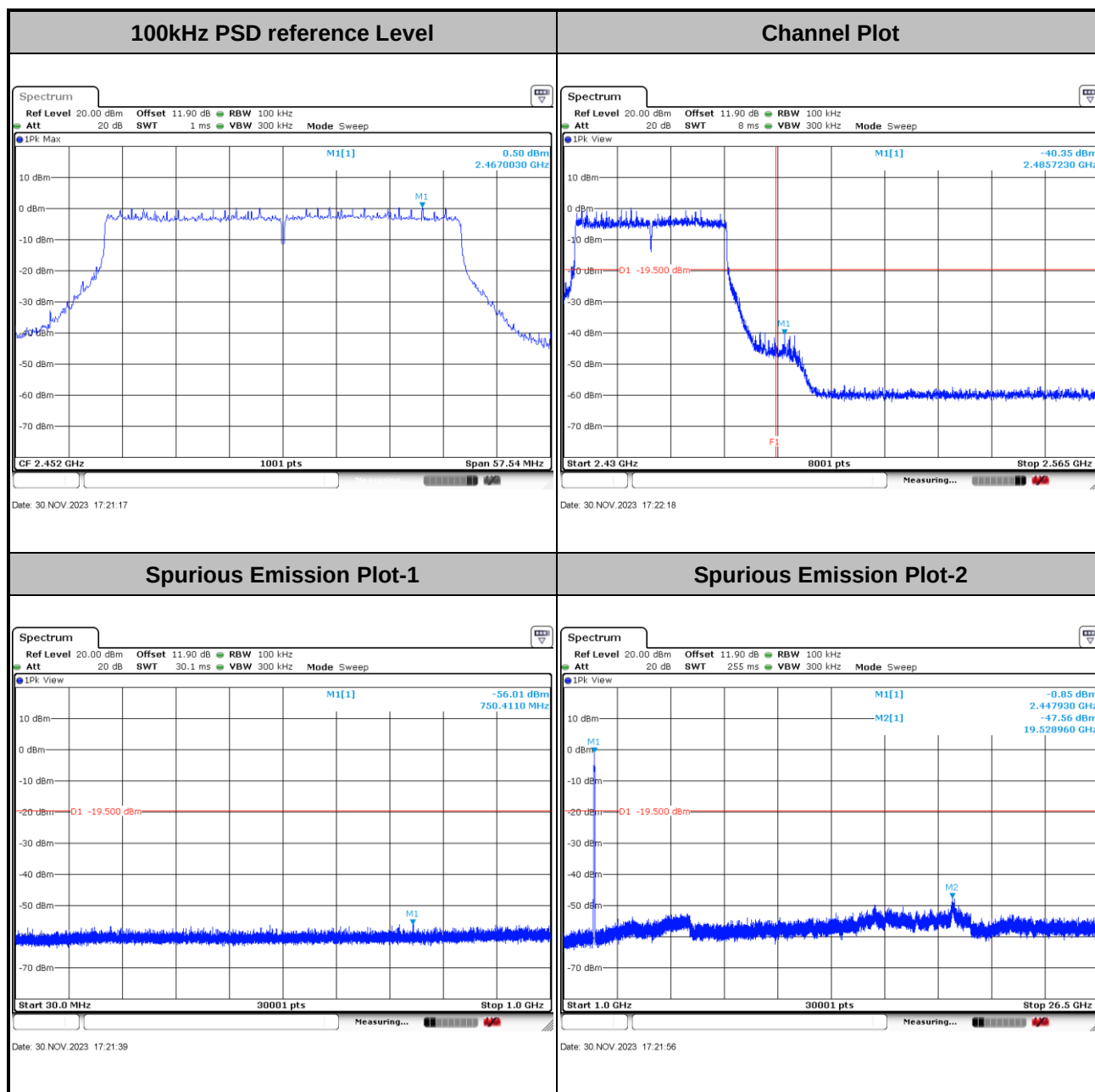


Spurious Emission Plot-2





Test Mode :	802.11be ETH40	Test Channel :	09
-------------	----------------	----------------	----





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

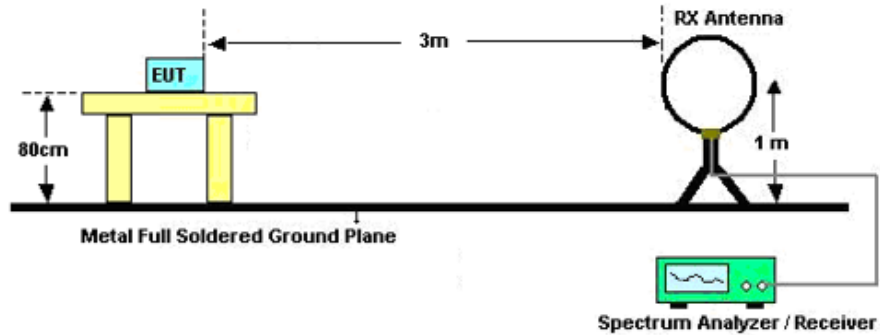
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

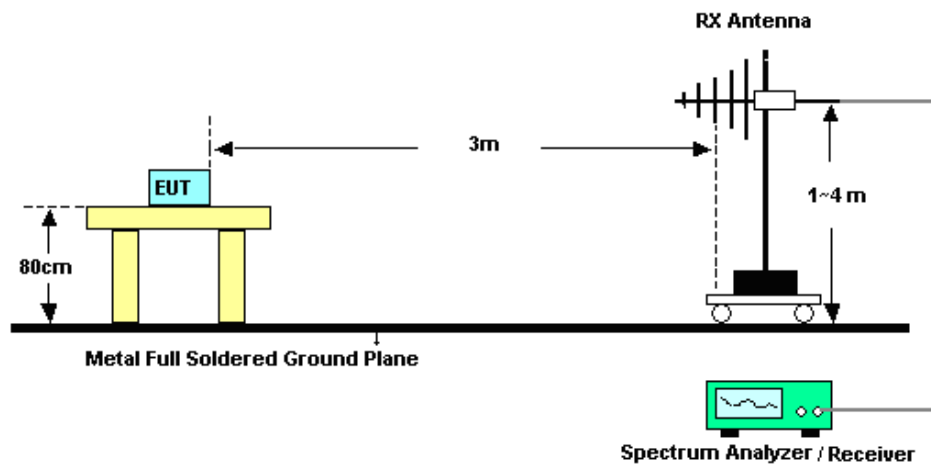
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

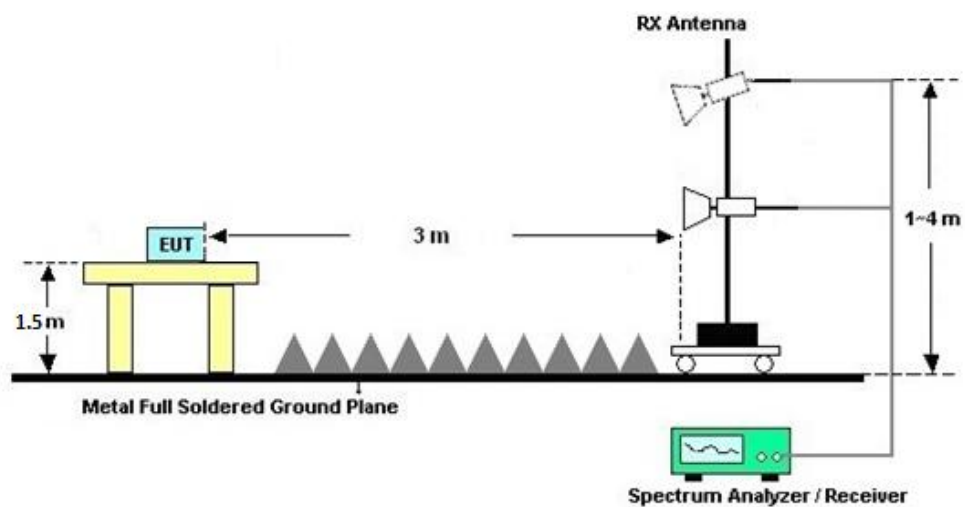
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

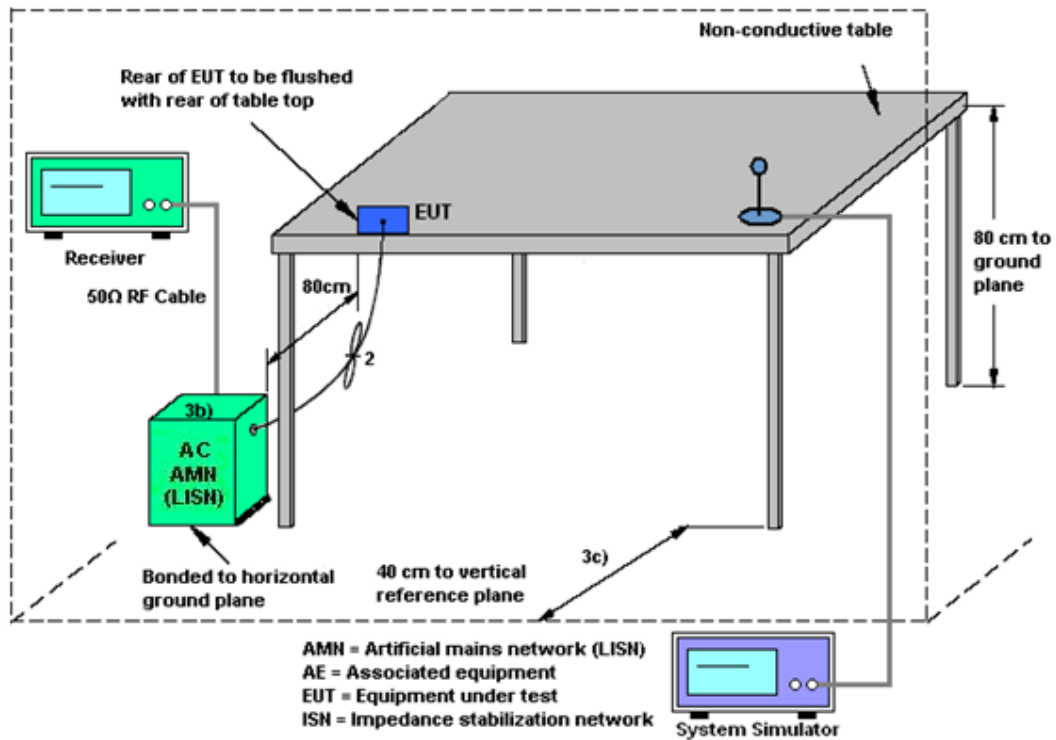
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 5 (dBi)	Ant. 4 (dBi)				
2.4 GHz	-3.60	-3.82	-3.60	-0.70	0.00	0.00



<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 5 (dBi)	Ant. 6 (dBi)				
2.4 GHz	-3.60	-4.88	-3.60	-1.21	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Nov. 30, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Nov. 30, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Nov. 30, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Nov. 14, 2023~Jan. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Nov. 14, 2023~Jan. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Nov. 14, 2023~Jan. 03, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Nov. 14, 2023~Jan. 03, 2024	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Nov. 14, 2023~Jan. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Nov. 14, 2023~Jan. 03, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Nov. 14, 2023~Jan. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Nov. 14, 2023~Jan. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Nov. 14, 2023~Jan. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Nov. 14, 2023~Jan. 03, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Nov. 14, 2023~Jan. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 14, 2023~Jan. 03, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 14, 2023~Jan. 03, 2024	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Nov. 02, 2023	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Nov. 02, 2023	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Nov. 02, 2023	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Nov. 02, 2023	Jul. 06, 2024	Conduction (CO01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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 Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7dB
---	-------

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

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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8dB
---	-------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

----- THE END -----



Appendix A. Conducted Test Results

Test Engineer:	Sam Zheng	Temperature:	24~26	°C
Test Date:	2023/11/30	Relative Humidity:	50~53	%

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant4	SUM	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	
11b	1Mbps	2	1	2412	23.01	22.30	25.68	30.00		-3.60		22.08		36.00		Pass
11b	1Mbps	2	6	2437	24.50	23.78	27.17	30.00		-3.60		23.57		36.00		Pass
11b	1Mbps	2	11	2462	24.20	23.84	27.03	30.00		-3.60		23.43		36.00		Pass
11g	6Mbps	2	1	2412	22.52	22.00	25.28	30.00		-3.60		21.68		36.00		Pass
11g	6Mbps	2	2	2417	25.80	24.66	28.28	30.00		-3.60		24.68		36.00		Pass
11g	6Mbps	2	6	2437	26.67	25.55	29.16	30.00		-3.60		25.56		36.00		Pass
11g	6Mbps	2	10	2457	25.74	24.50	28.17	30.00		-3.60		24.57		36.00		Pass
11g	6Mbps	2	11	2462	23.03	22.12	25.61	30.00		-3.60		22.01		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant4	SUM	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	
11b	1Mbps	2	1	2412	20.40	20.50	23.46	30.00		-3.60		19.86		36.00		Pass
11b	1Mbps	2	6	2437	22.00	22.10	25.06	30.00		-3.60		21.46		36.00		Pass
11b	1Mbps	2	11	2462	22.00	21.90	24.96	30.00		-3.60		21.36		36.00		Pass
11g	6Mbps	2	1	2412	16.50	15.80	19.17	30.00		-3.60		15.57		36.00		Pass
11g	6Mbps	2	2	2417	20.20	19.30	22.78	30.00		-3.60		19.18		36.00		Pass
11g	6Mbps	2	6	2437	20.50	19.60	23.08	30.00		-3.60		19.48		36.00		Pass
11g	6Mbps	2	10	2457	20.20	19.20	22.74	30.00		-3.60		19.14		36.00		Pass
11g	6Mbps	2	11	2462	17.00	16.10	19.58	30.00		-3.60		15.98		36.00		Pass

Setting	
Ant 1	Ant 2
20.00	
21.50	
21.50	
16.00	
20.00	
20.00	
20.00	
16.50	

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant5	Ant4	SUM	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	
EHT20	MCS0	2	1	2412	Full	21.50	20.80	24.17	30.00		-3.60		20.57		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	14.33	13.50	16.95	30.00		-3.60		13.35		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	16.80	16.00	19.43	30.00		-3.60		15.83		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	19.44	18.60	22.05	30.00		-3.60		18.45		36.00		Pass
EHT20	MCS0	2	2	2417	Full	25.90	24.98	28.47	30.00		-3.60		24.87		36.00		Pass
EHT20	MCS0	2	6	2437	Full	26.75	25.80	29.31	30.00		-3.60		25.71		36.00		Pass
EHT20	MCS0	2	10	2457	Full	25.80	24.88	28.37	30.00		-3.60		24.77		36.00		Pass
EHT20	MCS0	2	11	2462	Full	23.00	22.22	25.64	30.00		-3.60		22.04		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	14.88	14.30	17.61	30.00		-3.60		14.01		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	17.60	16.80	20.23	30.00		-3.60		16.63		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	19.77	19.10	22.46	30.00		-3.60		18.86		36.00		Pass
EHT40	MCS0	2	3	2422	Full	23.80	22.98	26.42	30.00		-3.60		22.82		36.00		Pass
EHT40	MCS0	2	4	2427	Full	25.12	24.00	27.61	30.00		-3.60		24.01		36.00		Pass
EHT40	MCS0	2	6	2437	Full	24.30	23.46	26.91	30.00		-3.60		23.31		36.00		Pass
EHT40	MCS0	2	7	2442	Full	23.50	22.75	26.15	30.00		-3.60		22.55		36.00		Pass
EHT40	MCS0	2	8	2447	Full	23.00	22.00	25.54	30.00		-3.60		21.94		36.00		Pass
EHT40	MCS0	2	9	2452	Full	23.55	22.90	26.25	30.00		-3.60		22.65		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant5	Ant4	SUM	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	
EHT20	MCS0	2	1	2412	Full	15.70	13.80	17.86	30.00		-3.60		14.26		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	6.30	5.80	9.07	30.00		-3.60		5.47		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	8.80	8.80	11.81	30.00		-3.60		8.21		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	11.30	10.80	14.07	30.00		-3.60		10.47		36.00		Pass
EHT20	MCS0	2	2	2417	Full	18.90	17.50	21.27	30.00		-3.60		17.67		36.00		Pass
EHT20	MCS0	2	6	2437	Full	19.60	18.80	22.23	30.00		-3.60		18.63		36.00		Pass
EHT20	MCS0	2	10	2457	Full	18.70	17.60	21.20	30.00		-3.60		17.60		36.00		Pass
EHT20	MCS0	2	11	2462	Full	16.00	15.20	18.63	30.00		-3.60		15.03		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	6.80	6.30	9.57	30.00		-3.60		5.97		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	9.30	8.70	12.02	30.00		-3.60		8.42		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	11.60	11.10	14.37	30.00		-3.60		10.77		36.00		Pass
EHT40	MCS0	2	3	2422	Full	16.20	15.60	18.92	30.00		-3.60		15.32		36.00		Pass
EHT40	MCS0	2	4	2427	Full	17.50	16.50	20.04	30.00		-3.60		16.44		36.00		Pass
EHT40	MCS0	2	6	2437	Full	16.80	16.50	19.66	30.00		-3.60		16.06		36.00		Pass
EHT40	MCS0	2	7	2442	Full	16.10	15.20	18.68	30.00		-3.60		15.08		36.00		Pass
EHT40	MCS0	2	8	2447	Full	15.50	14.60	18.08	30.00		-3.60		14.48		36.00		Pass
EHT40	MCS0	2	9	2452	Full	16.10	15.20	18.68	30.00		-3.60		15.08		36.00		Pass

Setting	
Ant 1	Ant 2
15.00	
6.00	
8.50	
11.00	
18.50	
19.00	
18.50	
15.50	
6.50	
9.00	
11.50	
16.00	
17.50	
16.50	
16.00	
15.50	
16.00	

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant5	Ant5		
11b	1Mbps	2	1	2412	13.136	8.06	0.50	Pass
11b	1Mbps	2	6	2437	13.436	8.12	0.50	Pass
11b	1Mbps	2	11	2462	13.586	8.58	0.50	Pass
11g	6Mbps	2	1	2412	17.132	16.36	0.50	Pass
11g	6Mbps	2	6	2437	17.182	16.38	0.50	Pass
11g	6Mbps	2	11	2462	17.132	16.38	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
						Ant5	Ant5		
EHT20	MCS0	2	1	2412	Full	19.230	18.98	0.50	Pass
EHT20	MCS0	2	6	2437	Full	19.230	19.08	0.50	Pass
EHT20	MCS0	2	11	2462	Full	19.230	19.08	0.50	Pass
EHT40	MCS0	2	3	2422	Full	38.361	37.84	0.50	Pass
EHT40	MCS0	2	6	2437	Full	38.561	38.24	0.50	Pass
EHT40	MCS0	2	9	2452	Full	38.661	38.12	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant5	Ant4	Worse + 3.01	Ant5	Ant4	Ant5	Ant4	
11b	1Mbps	2	1	2412	-2.50	-3.58	0.51	-0.70		8.00		Pass
11b	1Mbps	2	6	2437	-2.71	-1.98	1.03	-0.70		8.00		Pass
11b	1Mbps	2	11	2462	-2.09	-3.13	0.92	-0.70		8.00		Pass
11g	6Mbps	2	1	2412	-10.48	-10.43	-7.42	-0.70		8.00		Pass
11g	6Mbps	2	6	2437	-6.99	-6.75	-3.74	-0.70		8.00		Pass
11g	6Mbps	2	11	2462	-10.10	-9.75	-6.74	-0.70		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant5	Ant4	Worse + 3.01	Ant5	Ant4	Ant5	Ant4	
EHT20	MCS0	2	1	2412	Full	-10.79	-11.31	-7.78	-0.70		8.00		Pass
EHT20	MCS0	2	1	2412	26/0	-11.35	-11.64	-8.34	-0.70		8.00		Pass
EHT20	MCS0	2	1	2412	52/37	-11.01	-11.94	-8.00	-0.70		8.00		Pass
EHT20	MCS0	2	1	2412	106/53	-11.40	-11.74	-8.39	-0.70		8.00		Pass
EHT20	MCS0	2	6	2437	Full	-6.62	-7.40	-3.61	-0.70		8.00		Pass
EHT20	MCS0	2	11	2462	Full	-10.60	-11.25	-7.59	-0.70		8.00		Pass
EHT20	MCS0	2	11	2462	26/8	-10.76	-11.42	-7.75	-0.70		8.00		Pass
EHT20	MCS0	2	11	2462	52/40	-11.21	-11.51	-8.20	-0.70		8.00		Pass
EHT20	MCS0	2	11	2462	106/54	-11.42	-11.88	-8.41	-0.70		8.00		Pass
EHT40	MCS0	2	3	2422	Full	-13.73	-14.32	-10.72	-0.70		8.00		Pass
EHT40	MCS0	2	6	2437	Full	-11.99	-13.37	-8.98	-0.70		8.00		Pass
EHT40	MCS0	2	9	2452	Full	-13.04	-13.14	-10.03	-0.70		8.00		Pass

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

<MIMO Ant.5+6>:

Report Number : FR391308C

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant6	SUM	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	
11b	1Mbps	2	1	2412	22.14	20.46	24.39	30.00		-3.60		20.79		36.00		Pass
11b	1Mbps	2	2	2417	22.06	20.39	24.32	30.00		-3.60		20.72		36.00		Pass
11b	1Mbps	2	6	2437	25.10	23.36	27.33	30.00		-3.60		23.73		36.00		Pass
11b	1Mbps	2	11	2462	22.78	21.52	25.21	30.00		-3.60		21.61		36.00		Pass
11g	6Mbps	2	1	2412	23.48	21.61	25.66	30.00		-3.60		22.06		36.00		Pass
11g	6Mbps	2	2	2417	26.75	24.43	28.75	30.00		-3.60		25.15		36.00		Pass
11g	6Mbps	2	6	2437	27.20	25.00	29.25	30.00		-3.60		25.65		36.00		Pass
11g	6Mbps	2	10	2457	25.96	23.94	28.08	30.00		-3.60		24.48		36.00		Pass
11g	6Mbps	2	11	2462	23.64	21.67	25.78	30.00		-3.60		22.18		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant6	SUM	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	
11b	1Mbps	2	1	2412	19.80	18.70	22.30	30.00		-3.60		18.70		36.00		Pass
11b	1Mbps	2	2	2417	19.70	18.50	22.15	30.00		-3.60		18.55		36.00		Pass
11b	1Mbps	2	6	2437	23.20	21.90	25.61	30.00		-3.60		22.01		36.00		Pass
11b	1Mbps	2	11	2462	21.20	19.70	23.52	30.00		-3.60		19.92		36.00		Pass
11g	6Mbps	2	1	2412	17.40	15.70	19.64	30.00		-3.60		16.04		36.00		Pass
11g	6Mbps	2	2	2417	20.40	18.40	22.52	30.00		-3.60		18.92		36.00		Pass
11g	6Mbps	2	6	2437	21.00	19.10	23.16	30.00		-3.60		19.56		36.00		Pass
11g	6Mbps	2	10	2457	19.80	18.00	22.00	30.00		-3.60		18.40		36.00		Pass
11g	6Mbps	2	11	2462	17.30	15.60	19.54	30.00		-3.60		15.94		36.00		Pass

Setting	
Ant 1	Ant 2
20.00	
20.00	
23.00	
21.00	
17.50	
20.50	
21.00	
20.00	
17.50	

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

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant5	Ant6	SUM	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	
EHT20	MCS0	2	1	2412	Full	22.08	20.14	24.23	30.00		-3.60		20.63		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	12.62	10.88	14.85	30.00		-3.60		11.25		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	15.22	13.36	17.40	30.00		-3.60		13.80		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	18.41	16.54	20.59	30.00		-3.60		16.99		36.00		Pass
EHT20	MCS0	2	2	2417	Full	25.52	23.60	27.68	30.00		-3.60		24.08		36.00		Pass
EHT20	MCS0	2	6	2437	Full	26.90	25.25	29.16	30.00		-3.60		25.56		36.00		Pass
EHT20	MCS0	2	10	2457	Full	24.24	22.77	26.58	30.00		-3.60		22.98		36.00		Pass
EHT20	MCS0	2	11	2462	Full	23.84	22.28	26.14	30.00		-3.60		22.54		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	15.03	13.32	17.27	30.00		-3.60		13.67		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	18.73	16.75	20.86	30.00		-3.60		17.26		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	21.22	19.45	23.43	30.00		-3.60		19.83		36.00		Pass
EHT40	MCS0	2	3	2422	Full	23.69	22.03	25.95	30.00		-3.60		22.35		36.00		Pass
EHT40	MCS0	2	4	2427	Full	24.61	22.97	26.88	30.00		-3.60		23.28		36.00		Pass
EHT40	MCS0	2	6	2437	Full	24.69	23.02	26.95	30.00		-3.60		23.35		36.00		Pass
EHT40	MCS0	2	7	2442	Full	23.02	21.18	25.21	30.00		-3.60		21.61		36.00		Pass
EHT40	MCS0	2	8	2447	Full	22.51	20.62	24.68	30.00		-3.60		21.08		36.00		Pass
EHT40	MCS0	2	9	2452	Full	24.11	22.26	26.29	30.00		-3.60		22.69		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant5	Ant6	SUM	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	Ant5	Ant6	
EHT20	MCS0	2	1	2412	Full	15.00	13.70	17.41	30.00		-3.60		13.81		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	4.60	3.20	6.97	30.00		-3.60		3.37		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	7.20	5.70	9.52	30.00		-3.60		5.92		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	10.20	8.50	12.44	30.00		-3.60		8.84		36.00		Pass
EHT20	MCS0	2	2	2417	Full	18.50	17.10	20.87	30.00		-3.60		17.27		36.00		Pass
EHT20	MCS0	2	6	2437	Full	20.10	18.10	22.22	30.00		-3.60		18.62		36.00		Pass
EHT20	MCS0	2	10	2457	Full	17.30	15.50	19.50	30.00		-3.60		15.90		36.00		Pass
EHT20	MCS0	2	11	2462	Full	17.00	15.10	19.16	30.00		-3.60		15.56		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	6.90	5.20	9.14	30.00		-3.60		5.54		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	10.40	8.70	12.64	30.00		-3.60		9.04		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	12.90	11.20	15.14	30.00		-3.60		11.54		36.00		Pass
EHT40	MCS0	2	3	2422	Full	16.20	14.40	18.40	30.00		-3.60		14.80		36.00		Pass
EHT40	MCS0	2	4	2427	Full	17.10	15.30	19.30	30.00		-3.60		15.70		36.00		Pass
EHT40	MCS0	2	6	2437	Full	17.20	15.50	19.44	30.00		-3.60		15.84		36.00		Pass
EHT40	MCS0	2	7	2442	Full	15.40	13.90	17.72	30.00		-3.60		14.12		36.00		Pass
EHT40	MCS0	2	8	2447	Full	14.90	13.30	17.18	30.00		-3.60		13.58		36.00		Pass
EHT40	MCS0	2	9	2452	Full	16.60	15.00	18.88	30.00		-3.60		15.28		36.00		Pass

Setting	
Ant 1	Ant 2
15.00	
5.00	
7.50	
10.50	
18.50	
20.00	
17.50	
17.00	
7.50	
11.00	
13.50	
16.50	
17.50	
17.50	
16.00	
15.50	
17.00	

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant5	Ant5		
11b	1Mbps	2	1	2412	13.186	8.08	0.50	Pass
11b	1Mbps	2	6	2437	14.335	9.08	0.50	Pass
11b	1Mbps	2	11	2462	13.386	8.04	0.50	Pass
11g	6Mbps	2	1	2412	17.132	16.38	0.50	Pass
11g	6Mbps	2	6	2437	17.182	16.38	0.50	Pass
11g	6Mbps	2	11	2462	17.132	16.40	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
						Ant5	Ant5		
EHT20	MCS0	2	1	2412	Full	19.180	18.98	0.50	Pass
EHT20	MCS0	2	6	2437	Full	19.230	19.10	0.50	Pass
EHT20	MCS0	2	11	2462	Full	19.180	19.00	0.50	Pass
EHT40	MCS0	2	3	2422	Full	38.361	38.20	0.50	Pass
EHT40	MCS0	2	6	2437	Full	38.761	38.12	0.50	Pass
EHT40	MCS0	2	9	2452	Full	38.661	38.36	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant5	Ant6	Worse + 3.01	Ant5	Ant6	Ant5	Ant6	
11b	1Mbps	2	1	2412	-3.26	-5.03	-0.25	-1.21		8.00		Pass
11b	1Mbps	2	6	2437	-0.60	-2.71	2.41	-1.21		8.00		Pass
11b	1Mbps	2	11	2462	-3.93	-5.63	-0.92	-1.21		8.00		Pass
11g	6Mbps	2	1	2412	-8.18	-9.85	-5.17	-1.21		8.00		Pass
11g	6Mbps	2	6	2437	-6.03	-6.46	-3.02	-1.21		8.00		Pass
11g	6Mbps	2	11	2462	-9.46	-9.92	-6.45	-1.21		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant5	Ant6	Worse + 3.01	Ant5	Ant6	Ant5	Ant6	
EHT20	MCS0	2	1	2412	Full	-11.64	-13.55	-8.63	-1.21		8.00		Pass
EHT20	MCS0	2	1	2412	26/0	-12.55	-13.77	-9.54	-1.21		8.00		Pass
EHT20	MCS0	2	1	2412	52/37	-12.19	-13.84	-9.18	-1.21		8.00		Pass
EHT20	MCS0	2	1	2412	106/53	-12.05	-13.68	-9.04	-1.21		8.00		Pass
EHT20	MCS0	2	6	2437	Full	-5.94	-8.38	-2.93	-1.21		8.00		Pass
EHT20	MCS0	2	11	2462	Full	-8.86	-10.96	-5.85	-1.21		8.00		Pass
EHT20	MCS0	2	11	2462	26/8	-9.13	-11.55	-6.12	-1.21		8.00		Pass
EHT20	MCS0	2	11	2462	52/40	-9.27	-11.23	-6.26	-1.21		8.00		Pass
EHT20	MCS0	2	11	2462	106/54	-9.51	-11.17	-6.50	-1.21		8.00		Pass
EHT40	MCS0	2	3	2422	Full	-13.03	-14.26	-10.02	-1.21		8.00		Pass
EHT40	MCS0	2	6	2437	Full	-10.70	-13.04	-7.69	-1.21		8.00		Pass
EHT40	MCS0	2	9	2452	Full	-12.67	-14.42	-9.66	-1.21		8.00		Pass

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

**<11be Small RU>****MIMO<ANT.5+4>****Maximum conducted output power****Test Result Peak**

Test Mode	Antenna	Freq (MHz)	MRU Type	MRU Index	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11BE20 MIMO	Ant5	2412	52+26_OFDMA	1	10.5	18.84	≤30.00	15.24	≤36.00	PASS
			106+26_OFDMA	1	13	21.38	≤30.00	17.78	≤36.00	PASS
	Ant4	2412	52+26_OFDMA	1	10.5	17.73	≤30.00	13.91	≤36.00	PASS
			106+26_OFDMA	1	13	20.75	≤30.00	16.93	≤36.00	PASS
	total	2412	52+26_OFDMA	1	---	21.33	≤30.00	17.73	≤36.00	PASS
			106+26_OFDMA	1	---	24.09	≤30.00	20.49	≤36.00	PASS
	Ant5	2462	52+26_OFDMA	3	11	19.26	≤30.00	15.66	≤36.00	PASS
			106+26_OFDMA	2	13	21.16	≤30.00	17.56	≤36.00	PASS
	Ant4	2462	52+26_OFDMA	3	11	18.24	≤30.00	14.42	≤36.00	PASS
			106+26_OFDMA	2	13	20.81	≤30.00	16.99	≤36.00	PASS
	total	2462	52+26_OFDMA	3	---	21.79	≤30.00	18.19	≤36.00	PASS
			106+26_OFDMA	2	---	24.00	≤30.00	20.40	≤36.00	PASS

**Test Result Average (Reference Only)**

Test Mode	Antenna	Freq (MHz)	MRU Type	MRU Index	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]
11BE20 MIMO	Ant5	2412	52+26_OFDMA	1	10.5	10.66	100	0	10.66
			106+26_OFDMA	1	13	13.22	100	0	13.22
	Ant4	2412	52+26_OFDMA	1	10.5	9.98	100	0	9.98
			106+26_OFDMA	1	13	12.50	100	0	12.50
	total	2412	52+26_OFDMA	1	---	---	---	---	13.34
			106+26_OFDMA	1	---	---	---	---	15.89
	Ant5	2462	52+26_OFDMA	3	11	10.98	100	0	10.98
			106+26_OFDMA	2	13	12.87	100	0	12.87
	Ant4	2462	52+26_OFDMA	3	11	10.57	100	0	10.57
			106+26_OFDMA	2	13	12.48	100	0	12.48
	total	2462	52+26_OFDMA	3	---	---	---	---	13.79
			106+26_OFDMA	2	---	---	---	---	15.69



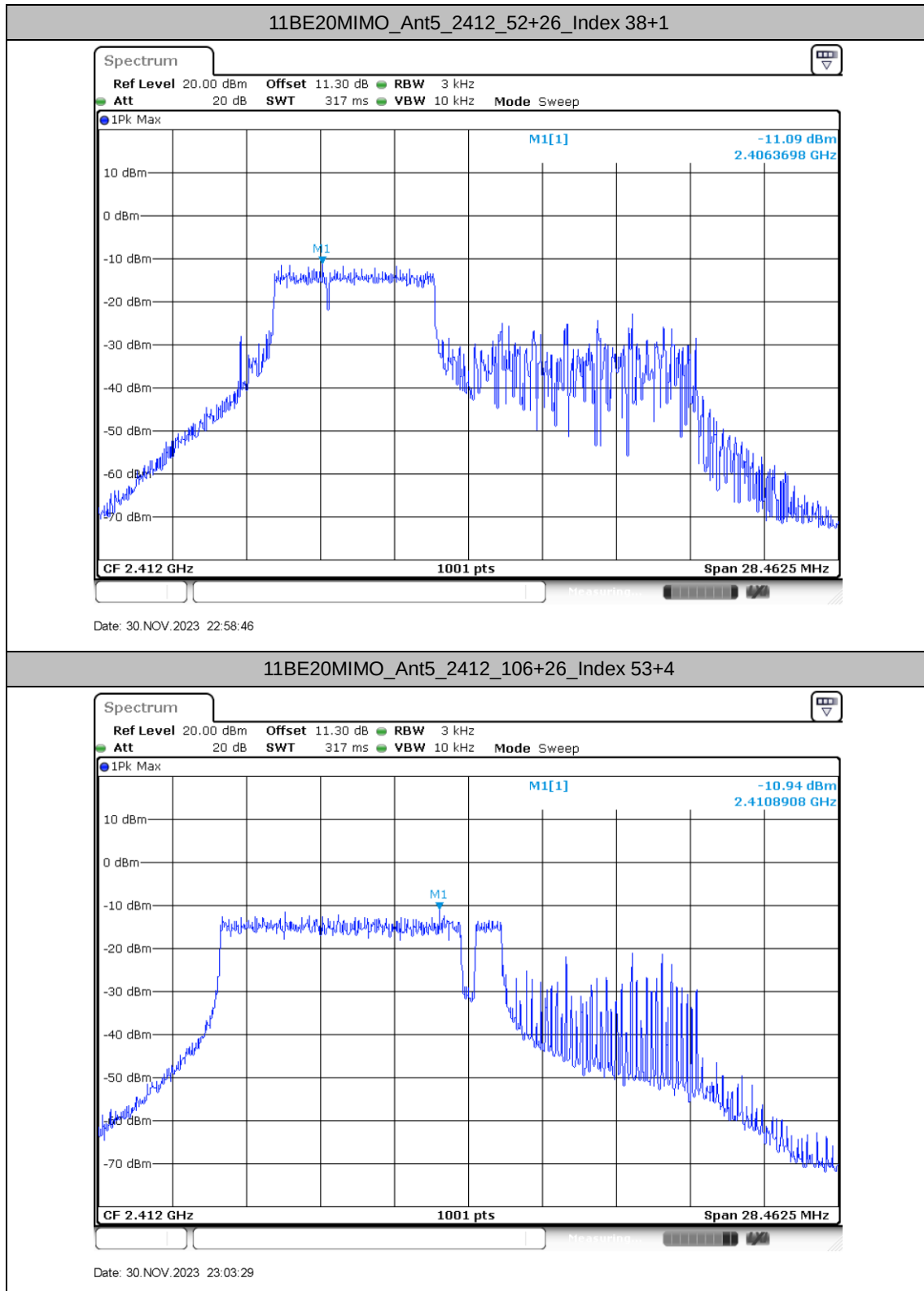
Maximum power spectral density

Test Result

TestMode	Antenna	Channel	MRU Type	MRU Index	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11BE20MIMO	Ant5	2412	52+26_OFDMA	1	-11.09	≤8.00	PASS
			106+26_OFDMA	1	-10.94	≤8.00	PASS
	Ant4	2412	52+26_OFDMA	1	-11.49	≤8.00	PASS
			106+26_OFDMA	1	-11.70	≤8.00	PASS
	total	2412	52+26_OFDMA	1	-8.28	≤8.00	PASS
			106+26_OFDMA	1	-8.29	≤8.00	PASS
	Ant5	2462	52+26_OFDMA	3	-10.92	≤8.00	PASS
			106+26_OFDMA	2	-11.01	≤8.00	PASS
	Ant4	2462	52+26_OFDMA	3	-11.41	≤8.00	PASS
			106+26_OFDMA	2	-11.39	≤8.00	PASS
	total	2462	52+26_OFDMA	3	-8.15	≤8.00	PASS
			106+26_OFDMA	2	-8.19	≤8.00	PASS

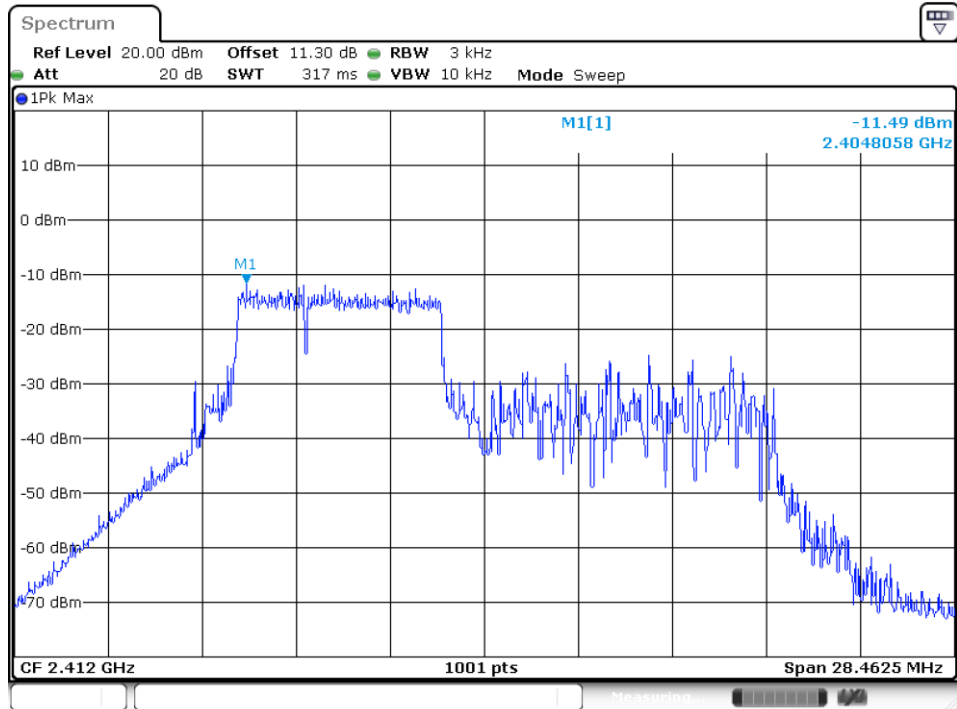


Test Graphs



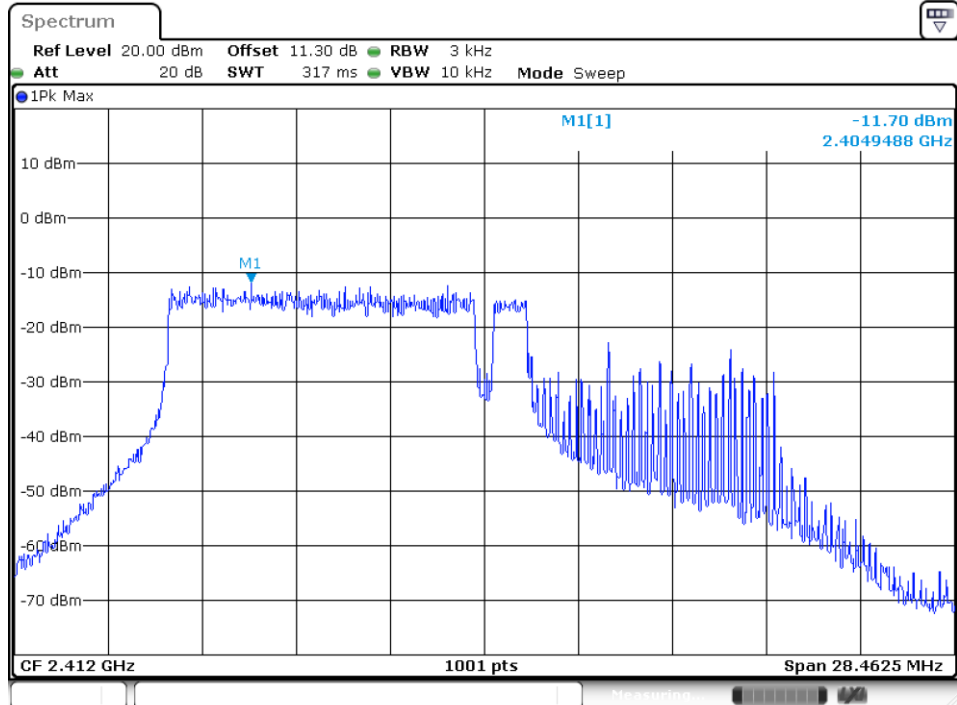


11BE20MIMO_Ant4_2412_52+26_Index 38+1



Date: 30.NOV.2023 22:59:11

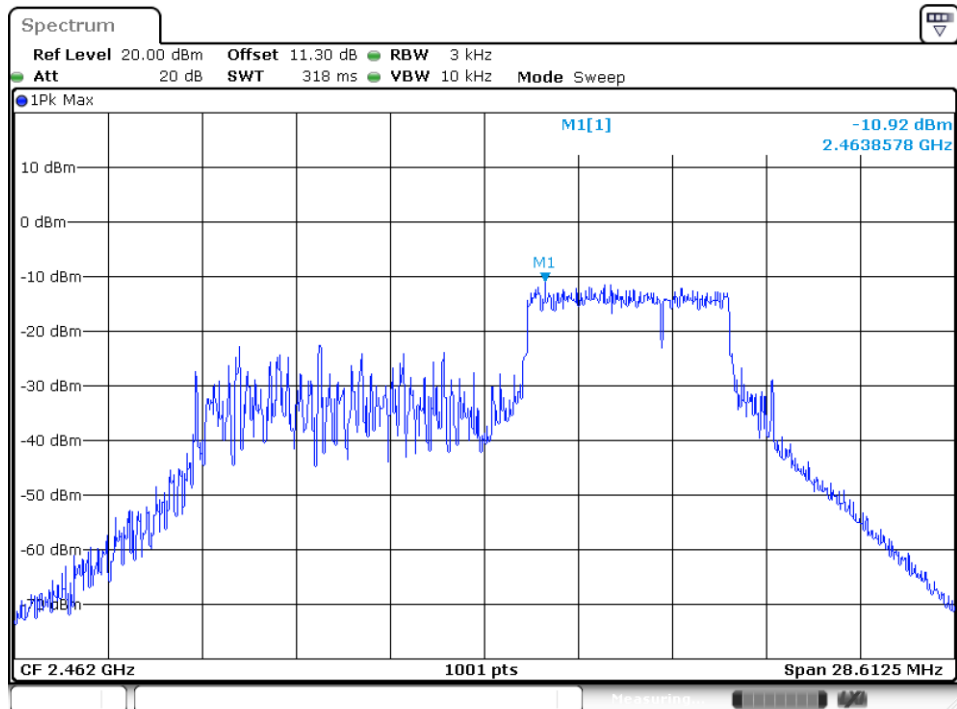
11BE20MIMO_Ant4_2412_106+26_Index 53+4



Date: 30.NOV.2023 23:04:32

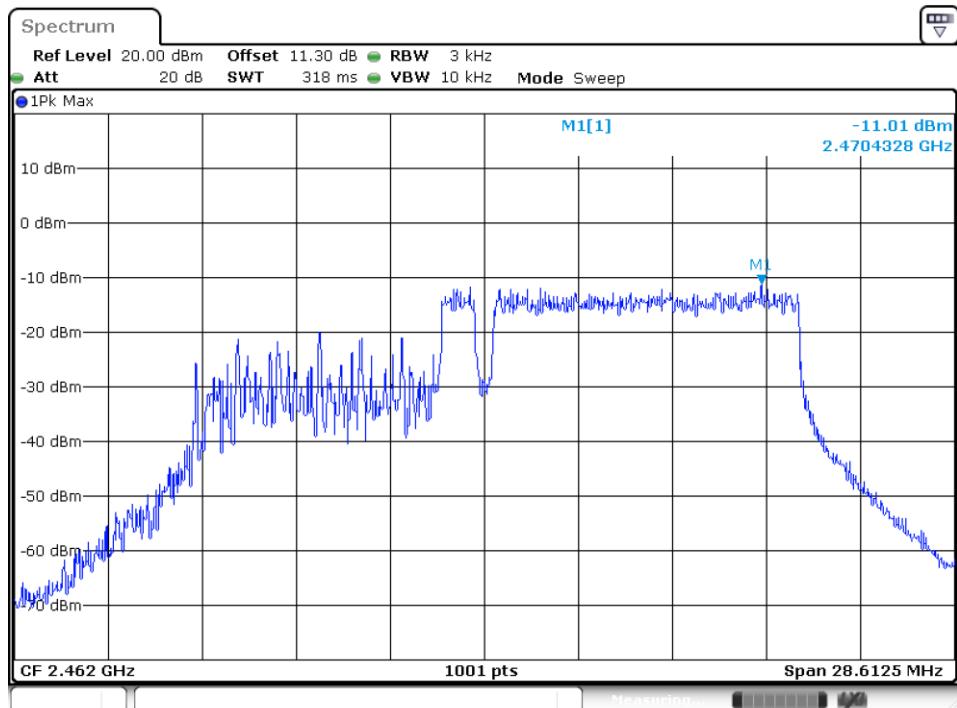


11BE20MIMO_Ant5_2462_52+26_Index 39+7



Date: 30. NOV. 2023 23:09:28

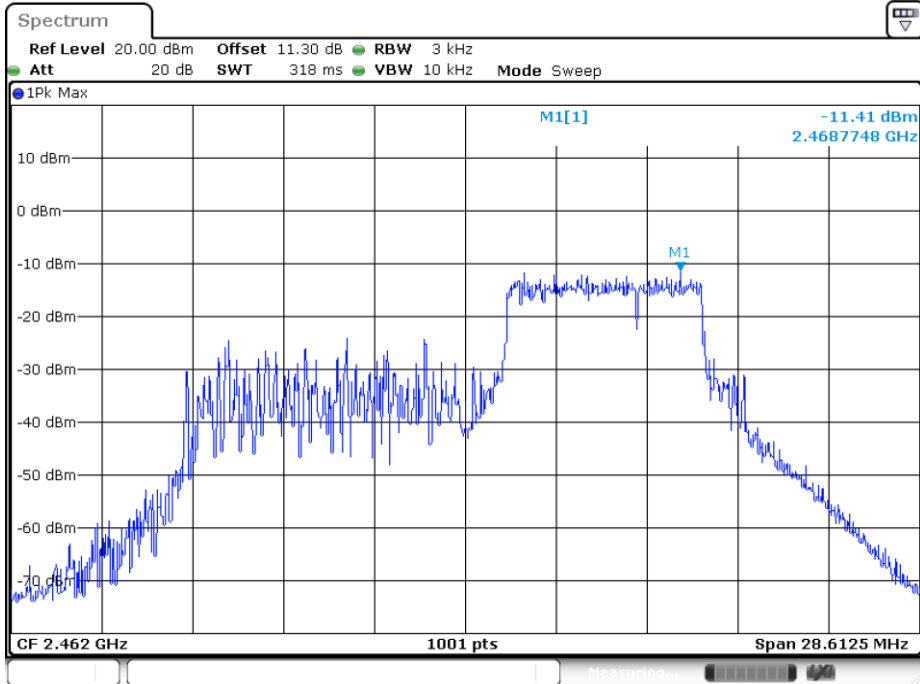
11BE20MIMO_Ant5_2462_106+26_Index 54+4



Date: 30. NOV. 2023 23:16:49

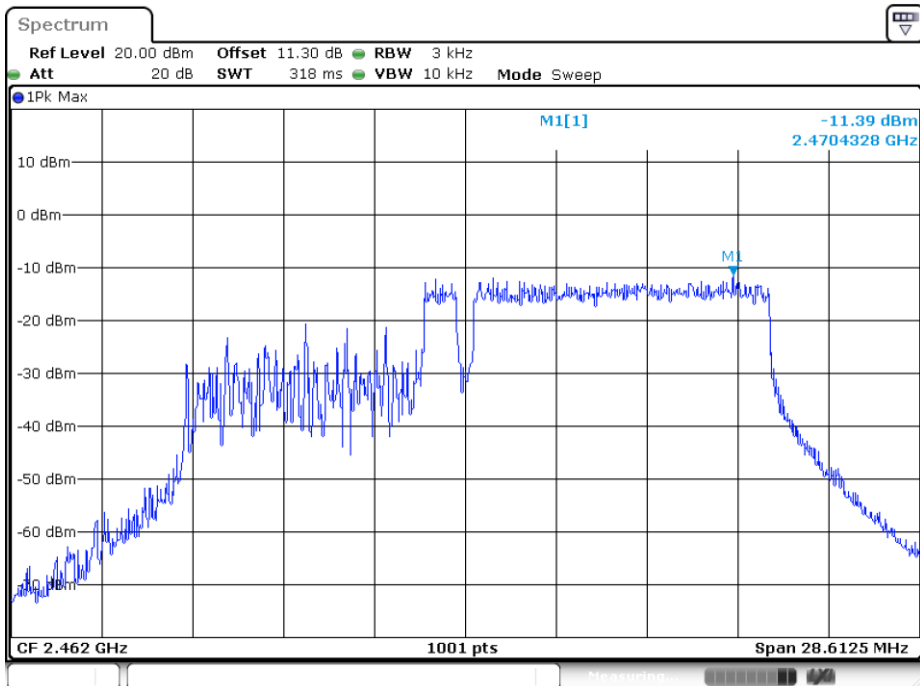


11BE20MIMO_Ant4_2462_52+26_Index 39+7



Date: 30.NOV.2023 23:10:09

11BE20MIMO_Ant4_2462_106+26_Index 54+4



Date: 30.NOV.2023 23:17:23



MIMO<ANT.5+6>

Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq (MHz)	MRU Type	MRU Index	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11BE20 MIMO	Ant5	2412	52+26_OFDMA	1	10	17.81	≤30.00	14.21	≤36.00	PASS
			106+26_OFDMA	1	13	20.95	≤30.00	17.35	≤36.00	PASS
	Ant6	2412	52+26_OFDMA	1	10	16.04	≤30.00	11.16	≤36.00	PASS
			106+26_OFDMA	1	13	19.25	≤30.00	14.37	≤36.00	PASS
	total	2412	52+26_OFDMA	1	---	20.02	≤30.00	16.42	≤36.00	PASS
			106+26_OFDMA	1	---	23.19	≤30.00	19.59	≤36.00	PASS
	Ant5	2462	52+26_OFDMA	3	12.5	20.23	≤30.00	16.63	≤36.00	PASS
			106+26_OFDMA	2	15	22.89	≤30.00	19.29	≤36.00	PASS
	Ant6	2462	52+26_OFDMA	3	12.5	18.22	≤30.00	13.34	≤36.00	PASS
			106+26_OFDMA	2	15	21.01	≤30.00	16.13	≤36.00	PASS
	total	2462	52+26_OFDMA	3	---	22.35	≤30.00	18.75	≤36.00	PASS
			106+26_OFDMA	2	---	25.06	≤30.00	21.46	≤36.00	PASS

**Test Result Average (Reference Only)**

Test Mode	Antenna	Freq (MHz)	MRU Type	MRU Index	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]
11BE20 MIMO	Ant5	2412	52+26_OFDMA	1	10	9.64	100	0	9.64
			106+26_OFDMA	1	13	12.73	100	0	12.73
	Ant6	2412	52+26_OFDMA	1	10	8.07	100	0	8.07
			106+26_OFDMA	1	13	10.96	100	0	10.96
	total	2412	52+26_OFDMA	1	---	---	---	---	11.94
			106+26_OFDMA	1	---	---	---	---	14.94
	Ant5	2462	52+26_OFDMA	3	12.5	11.83	100	0	11.83
			106+26_OFDMA	2	15	14.48	100	0	14.48
	Ant6	2462	52+26_OFDMA	3	12.5	10.25	100	0	10.25
			106+26_OFDMA	2	15	12.79	100	0	12.79
	total	2462	52+26_OFDMA	3	---	---	---	---	14.12
			106+26_OFDMA	2	---	---	---	---	16.73



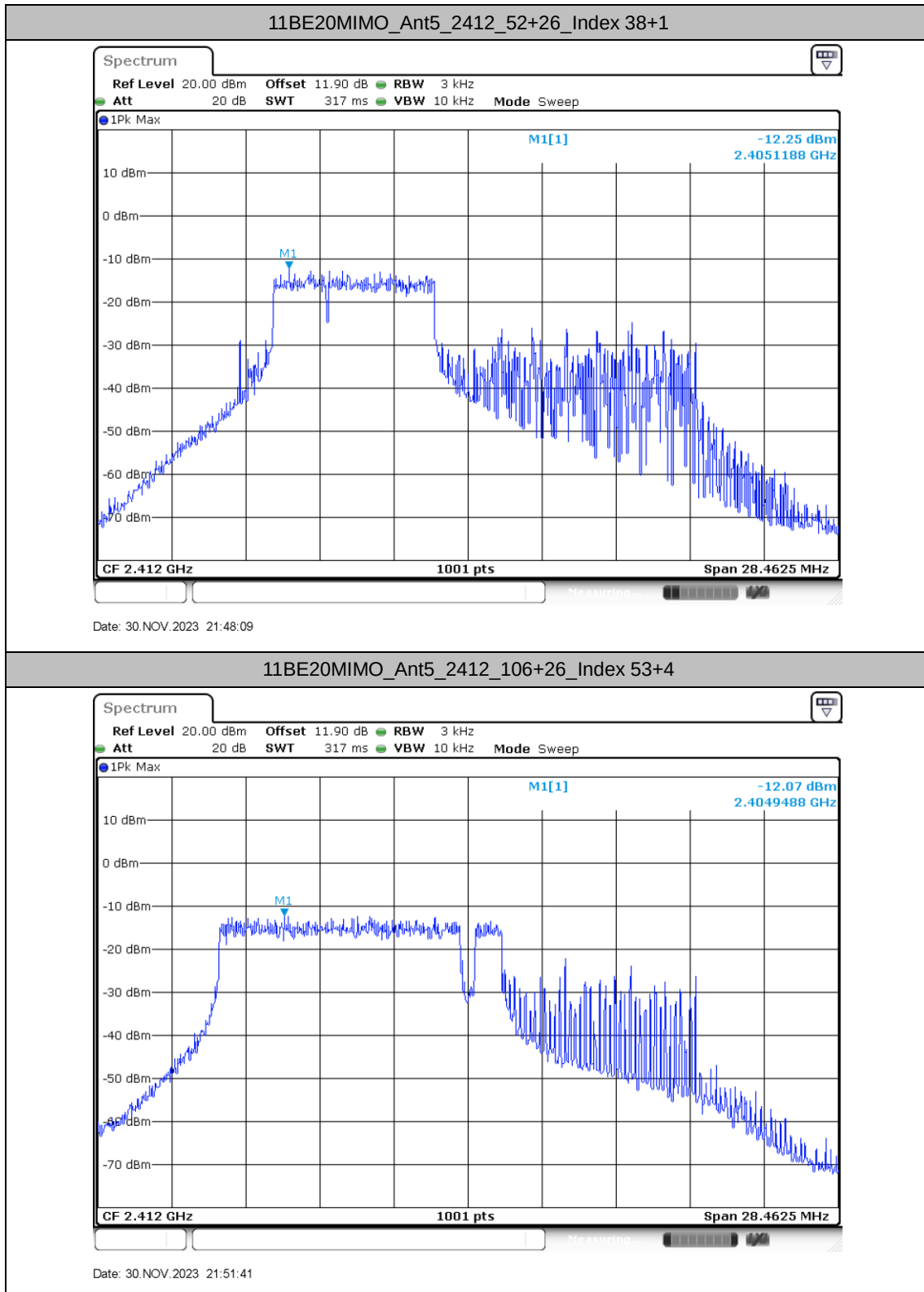
Maximum power spectral density

Test Result

TestMode	Antenna	Channel	MRU Type	MRU Index	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11BE20MIMO	Ant5	2412	52+26_OFDMA	1	-12.25	≤8.00	PASS
			106+26_OFDMA	1	-12.07	≤8.00	PASS
	Ant6	2412	52+26_OFDMA	1	-13.70	≤8.00	PASS
			106+26_OFDMA	1	-13.85	≤8.00	PASS
	total	2412	52+26_OFDMA	1	-9.90	≤8.00	PASS
			106+26_OFDMA	1	-9.86	≤8.00	PASS
	Ant5	2462	52+26_OFDMA	3	-9.77	≤8.00	PASS
			106+26_OFDMA	2	-9.29	≤8.00	PASS
	Ant6	2462	52+26_OFDMA	3	-11.50	≤8.00	PASS
			106+26_OFDMA	2	-11.28	≤8.00	PASS
	total	2462	52+26_OFDMA	3	-7.54	≤8.00	PASS
			106+26_OFDMA	2	-7.16	≤8.00	PASS

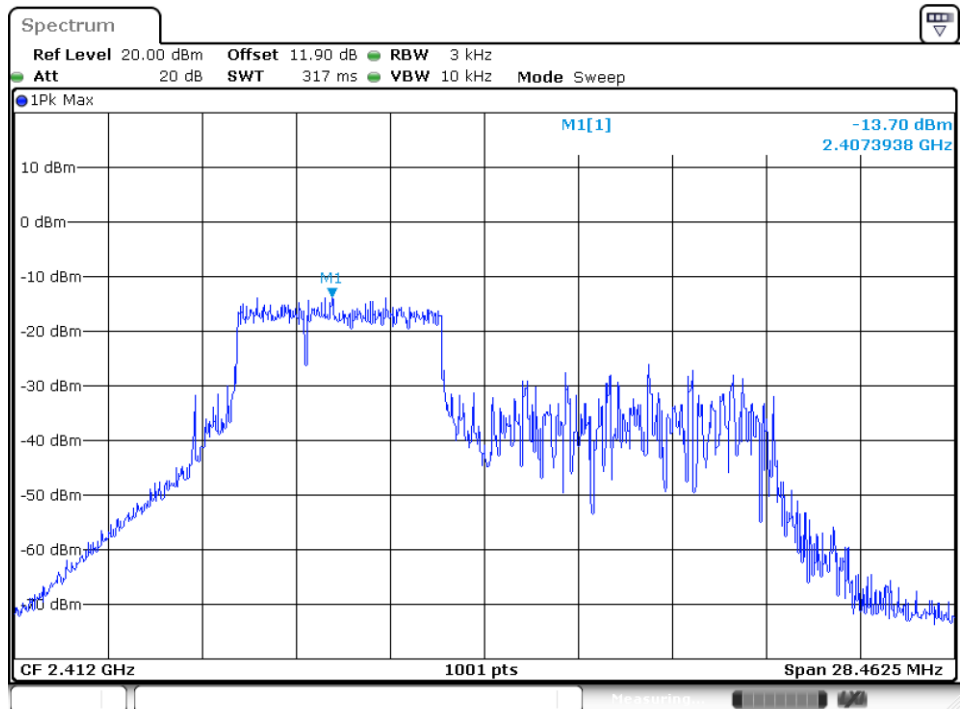


Test Graphs



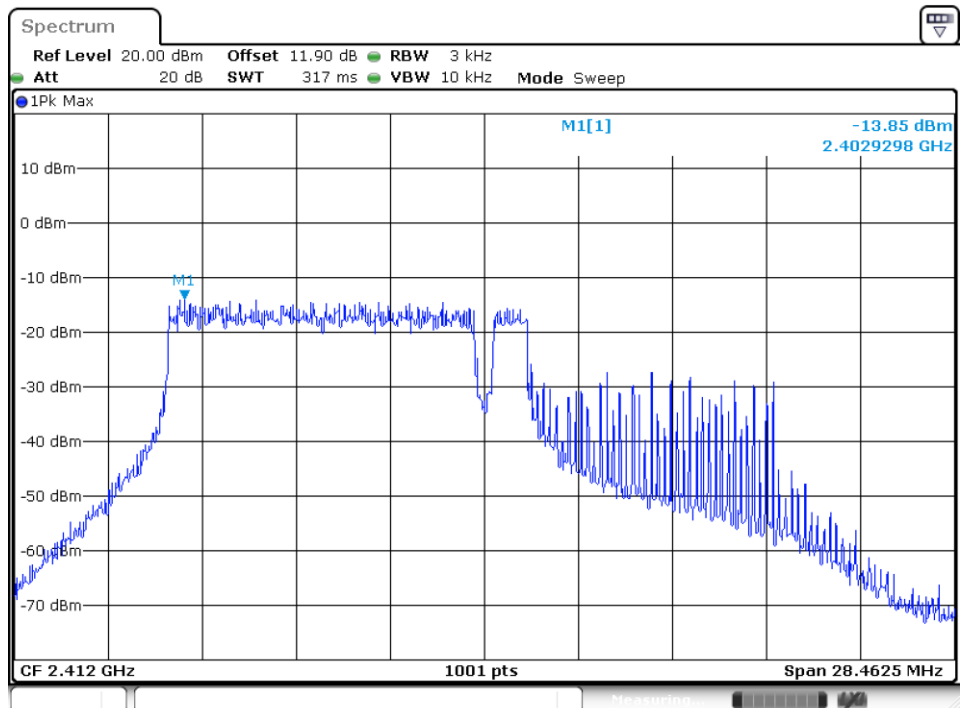


11BE20MIMO_Ant6_2412_52+26_Index 38+1



Date: 30.NOV.2023 21:48:47

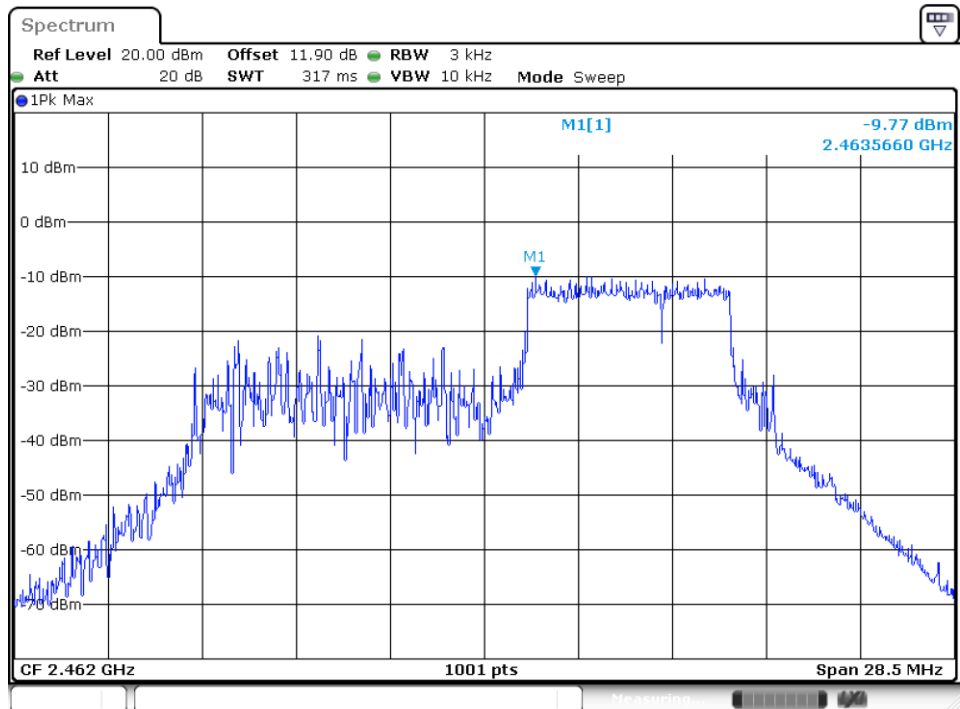
11BE20MIMO_Ant6_2412_106+26_Index 53+4



Date: 30.NOV.2023 21:50:46

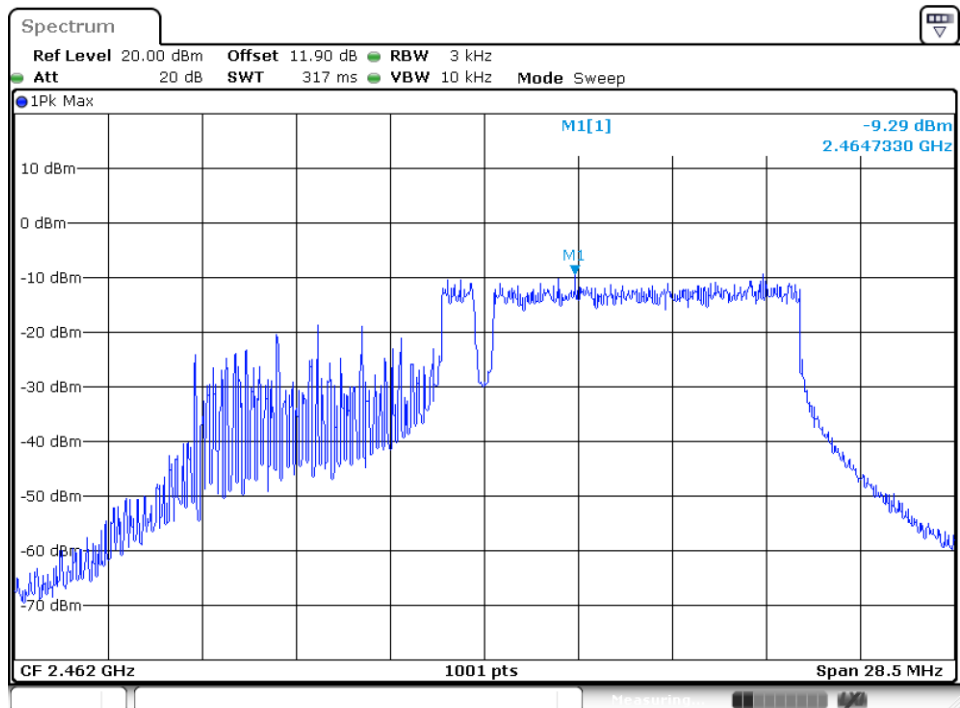


11BE20MIMO_Ant5_2462_52+26_Index 39+7



Date: 30.NOV.2023 22:10:27

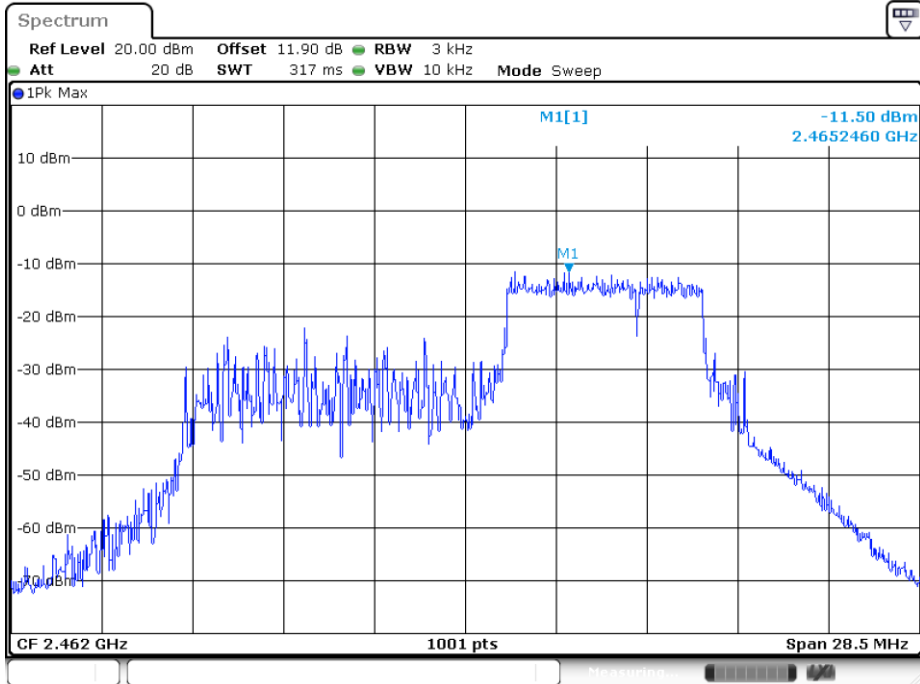
11BE20MIMO_Ant5_2462_106+26_Index 54+4



Date: 30.NOV.2023 22:15:44

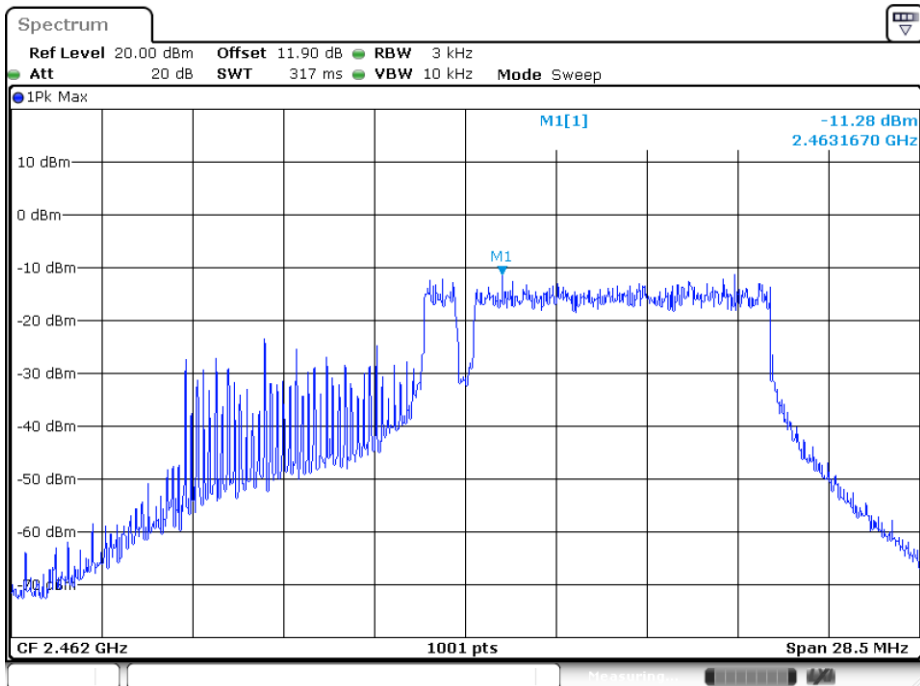


11BE20MIMO_Ant6_2462_52+26_Index 39+7



Date: 30.NOV.2023 22:11:18

11BE20MIMO_Ant6_2462_106+26_Index 54+4

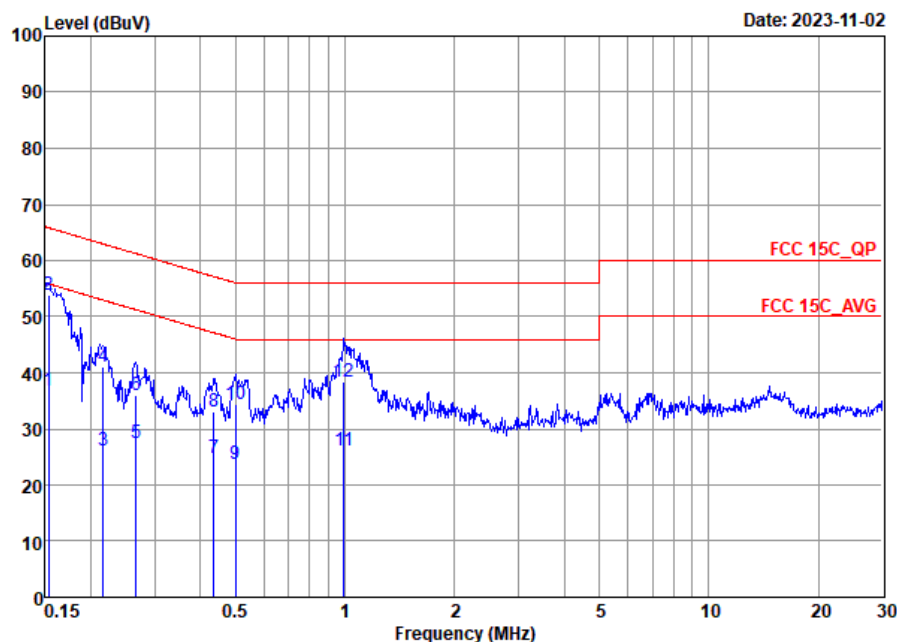


Date: 30.NOV.2023 22:14:40



Appendix B. AC Conducted Emission Test Results

Test Engineer :	FangMing Liang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

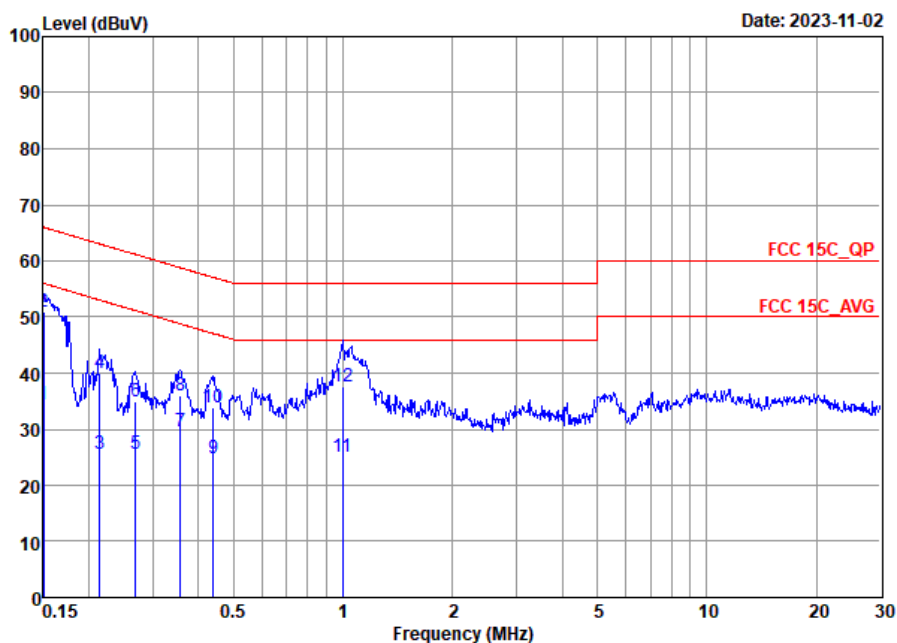


Site : CO01-SZ
Condition: FCC 15C_QP AC LISN 100063_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	36.70	-19.12	55.82	16.21	10.36	10.13	Average
2 *	0.15	53.80	-12.02	65.82	33.31	10.36	10.13	QP
3	0.22	26.11	-26.85	52.96	5.60	10.36	10.15	Average
4	0.22	41.01	-21.95	62.96	20.50	10.36	10.15	QP
5	0.27	27.45	-23.80	51.25	7.20	10.10	10.15	Average
6	0.27	36.05	-25.20	61.25	15.80	10.10	10.15	QP
7	0.44	24.84	-22.31	47.15	4.30	10.38	10.16	Average
8	0.44	33.14	-24.01	57.15	12.60	10.38	10.16	QP
9	0.50	23.62	-22.39	46.01	3.20	10.26	10.16	Average
10	0.50	34.42	-21.59	56.01	14.00	10.26	10.16	QP
11	0.99	26.02	-19.98	46.00	5.60	10.26	10.16	Average
12	0.99	38.42	-17.58	56.00	18.00	10.26	10.16	QP



Test Engineer :	FangMing Liang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15C_QP AC LISN 100063_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	34.46	-21.54	56.00	14.20	10.13	10.13	Average
2 *	0.15	51.06	-14.94	66.00	30.80	10.13	10.13	QP
3	0.21	25.58	-27.47	53.05	5.20	10.23	10.15	Average
4	0.21	40.08	-22.97	63.05	19.70	10.23	10.15	QP
5	0.27	25.64	-25.52	51.16	5.21	10.28	10.15	Average
6	0.27	35.04	-26.12	61.16	14.61	10.28	10.15	QP
7	0.36	29.52	-19.26	48.78	9.10	10.26	10.16	Average
8	0.36	35.92	-22.86	58.78	15.50	10.26	10.16	QP
9	0.44	24.77	-22.30	47.07	4.60	10.01	10.16	Average
10	0.44	33.77	-23.30	57.07	13.60	10.01	10.16	QP
11	1.00	24.98	-21.02	46.00	4.60	10.22	10.16	Average
12	1.00	37.68	-18.32	56.00	17.30	10.22	10.16	QP

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

Test Engineer :	Wenbo Xiao	Relative Humidity :	48~49%
		Temperature :	24~25℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	CDD 5+4	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	CDD 5+4	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	CDD 5+4	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	CDD 5+4	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	CDD 5+4	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	CDD 5+4	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	CDD 5+4	802.11be EHT20	01	2412	MCS0	Full RU	-
Mode 8	2400-2483.5	CDD 5+4	802.11be EHT20	06	2437	MCS0	Full RU	-
Mode 9	2400-2483.5	CDD 5+4	802.11be EHT20	11	2462	MCS0	Full RU	-
Mode 10	2400-2483.5	CDD 5+4	802.11be EHT40	03	2422	MCS0	Full RU	-
Mode 11	2400-2483.5	CDD 5+4	802.11be EHT40	09	2452	MCS0	Full RU	-
Mode 12	2400-2483.5	CDD 5+4	802.11be EHT20	01	2412	MCS0	Single RU 52/37	-
Mode 13	2400-2483.5	CDD 5+4	802.11be EHT20	11	2462	MCS0	Single RU 26/8	-
Mode 14	2400-2483.5	CDD 5+4	802.11be EHT20	01	2412	MCS0	Small RU 52+26 38+1	-
Mode 15	2400-2483.5	CDD 5+4	802.11be EHT20	01	2412	MCS0	Small RU 106+26 53+4	-
Mode 16	2400-2483.5	CDD 5+4	802.11be EHT20	11	2462	MCS0	Small RU 52+26 39+7	-
Mode 17	2400-2483.5	CDD 5+4	802.11be EHT20	11	2462	MCS0	Small RU 106+26 54+4	-
Mode 18	2400-2483.5	CDD 5+4	802.11g	11	2462	6Mbps	-	LF
Mode 19	2400-2483.5	CDD 5+6	802.11b	01	2412	1Mbps	-	-
Mode 20	2400-2483.5	CDD 5+6	802.11b	06	2437	1Mbps	-	-
Mode 21	2400-2483.5	CDD 5+6	802.11b	11	2462	1Mbps	-	-
Mode 22	2400-2483.5	CDD 5+6	802.11g	01	2412	6Mbps	-	-
Mode 23	2400-2483.5	CDD 5+6	802.11g	06	2437	6Mbps	-	-
Mode 24	2400-2483.5	CDD 5+6	802.11g	11	2462	6Mbps	-	-
Mode 25	2400-2483.5	CDD 5+6	802.11be EHT20	01	2412	MCS0	Full RU	-
Mode 26	2400-2483.5	CDD 5+6	802.11be EHT20	06	2437	MCS0	Full RU	-
Mode 27	2400-2483.5	CDD 5+6	802.11be EHT20	11	2462	MCS0	Full RU	-
Mode 28	2400-2483.5	CDD 5+6	802.11be EHT40	03	2422	MCS0	Full RU	-
Mode 29	2400-2483.5	CDD 5+6	802.11be EHT40	09	2452	MCS0	Full RU	-
Mode 30	2400-2483.5	CDD 5+6	802.11be EHT20	01	2412	MCS0	Single RU 106/53	-
Mode 31	2400-2483.5	CDD 5+6	802.11be EHT20	11	2462	MCS0	Single RU 26/8	-



Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 32	2400-2483.5	CDD 5+6	802.11be EHT20	01	2412	MCS0	Small RU 52+26 38+1	-
Mode 33	2400-2483.5	CDD 5+6	802.11be EHT20	01	2412	MCS0	Small RU 106+26 53+4	-
Mode 34	2400-2483.5	CDD 5+6	802.11be EHT20	11	2462	MCS0	Small RU 52+26 39+7	-
Mode 35	2400-2483.5	CDD 5+6	802.11be EHT20	11	2462	MCS0	Small RU 106+26 54+4	-
Mode 36	2400-2483.5	CDD 5+6	802.11be EHT20	10	2457	MCS0	Full RU	LF
Mode 37	2400-2483.5	CDD 5+4	802.11g	11	2462	6Mbps	-	sample2
Mode 38	2400-2483.5	CDD 5+4	802.11g	02	2417	6Mbps	-	-
Mode 39	2400-2483.5	CDD 5+4	802.11g	10	2457	6Mbps	-	-
Mode 40	2400-2483.5	CDD 5+4	802.11be ETH20	02	2417	MCS0	Full RU	-
Mode 41	2400-2483.5	CDD 5+4	802.11be ETH20	10	2457	MCS0	Full RU	-
Mode 42	2400-2483.5	CDD 5+4	802.11be ETH40	04	2427	MCS0	Full RU	-
Mode 43	2400-2483.5	CDD 5+4	802.11be ETH40	08	2447	MCS0	Full RU	-
Mode 44	2400-2483.5	CDD 5+4	802.11be ETH40	07	2442	MCS0	Full RU	-
Mode 45	2400-2483.5	CDD 5+4	802.11be ETH40	06	2437	MCS0	Full RU	-
Mode 46	2400-2483.5	CDD 5+6	802.11b	02	2417	1Mbps	-	-
Mode 47	2400-2483.5	CDD 5+6	802.11b	03	2422	1Mbps	-	-
Mode 48	2400-2483.5	CDD 5+6	802.11g	02	2417	6Mbps	-	-
Mode 49	2400-2483.5	CDD 5+6	802.11g	10	2457	6Mbps	-	-
Mode 50	2400-2483.5	CDD 5+6	802.11be ETH20	02	2417	MCS0	Full RU	-
Mode 51	2400-2483.5	CDD 5+6	802.11be ETH20	10	2457	MCS0	Full RU	-
Mode 52	2400-2483.5	CDD 5+6	802.11be ETH40	04	2427	MCS0	Full RU	-
Mode 53	2400-2483.5	CDD 5+6	802.11be ETH40	08	2447	MCS0	Full RU	-
Mode 54	2400-2483.5	CDD 5+6	802.11be ETH40	07	2442	MCS0	Full RU	-
Mode 55	2400-2483.5	CDD 5+6	802.11be ETH40	06	2437	MCS0	Full RU	-

**Co-location****Radiated Spurious Emission Test Modes**

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 56	Co-location	7	SA N30					-
		CDD 5+4	802.11g+	11	2462	6Mbps	-	
Mode 57	Co-location	7	SA N30					
		5	Bluetooth-LE	38	2478	2Mbps	-	-
		4	802.11g	11	2462	6Mbps	-	-
Mode 58	Co-location	7	SA N30					-
		CDD 5+6	802.11g	11	2462	6Mbps	-	
Mode 59	Co-location	7	SA N30					-
		5	Bluetooth BR_GFSK	78	2480	1DH5	-	-
		6	802.11g	11	2462	6Mbps		



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2385.40	50.82	54.00	-3.18	H	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	39.46	54.00	-14.54	V	Average	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
	802.11b	06	7311.00	49.19	54.00	-4.81	V	Average	Pass	Harmonic
3	802.11b	11	2483.51	51.20	54.00	-2.80	H	AVERAGE	Pass	Band Edge
	802.11b	11	7386.00	49.71	54.00	-4.29	V	Average	Pass	Harmonic
4	802.11g	01	2389.95	51.57	54.00	-2.43	H	AVERAGE	Pass	Band Edge
	802.11g	01	4824.00	44.00	74.00	-30.00	V	Peak	Pass	Harmonic
5	802.11g	06	-	-	-	-	-	-	-	Band Edge
	802.11g	06	7311.00	48.07	74.00	-25.93	V	Peak	Pass	Harmonic
6	802.11g	11	2483.55	51.82	54.00	-2.18	V	AVERAGE	Pass	Band Edge
	802.11g	11	7386.00	44.42	74.00	-29.58	V	Peak	Pass	Harmonic
7	802.11be EHT20	01	2389.82	51.19	54.00	-2.81	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	4824.00	43.76	74.00	-30.24	H	Peak	Pass	Harmonic
8	802.11be EHT20	06	-	-	-	-	-	-	-	Band Edge
	802.11be EHT20	06	7311.00	47.65	74.00	-26.35	V	Peak	Pass	Harmonic
9	802.11be EHT20	11	2483.51	50.82	54.00	-3.18	V	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	7386.00	45.36	74.00	-28.64	H	Peak	Pass	Harmonic
10	802.11be EHT40	03	2389.52	51.30	54.00	-2.70	H	AVERAGE	Pass	Band Edge
	802.11be EHT40	03	-	-	-	-	-	-	-	Harmonic
11	802.11be EHT40	09	2484.54	51.75	54.00	-2.25	H	AVERAGE	Pass	Band Edge
	802.11be EHT40	09	-	-	-	-	-	-	-	Harmonic
12	802.11be EHT20	01	2387.22	42.27	54.00	-11.73	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
13	802.11be EHT20	11	2493.88	42.73	54.00	-11.27	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
14	802.11be EHT20	01	2389.82	43.06	54.00	-10.94	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
15	802.11be EHT20	01	2389.82	43.75	54.00	-10.25	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
16	802.11be EHT20	11	2484.12	43.32	54.00	-10.68	V	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
17	802.11be EHT20	11	2483.55	44.30	54.00	-9.70	V	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
18	802.11g	11	51.34	32.81	40.00	-7.19	V	PEAK	Pass	LF
19	802.11b	01	2387.48	51.41	54.00	-2.59	H	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	43.46	74.00	-30.54	H	Peak	Pass	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
20	802.11b	06	-	-	-	-	-	-	-	Band Edge
	802.11b	06	7311.00	45.55	74.00	-28.45	V	Peak	Pass	Harmonic
21	802.11b	11	2483.51	50.61	54.00	-3.39	H	AVERAGE	Pass	Band Edge
	802.11b	11	7386.00	45.08	74.00	-28.92	V	Peak	Pass	Harmonic
22	802.11g	01	2389.95	51.41	54.00	-2.59	H	AVERAGE	Pass	Band Edge
	802.11g	01	4824.00	43.72	74.00	-30.28	H	Peak	Pass	Harmonic
23	802.11g	06	-	-	-	-	-	-	-	Band Edge
	802.11g	06	7311.00	45.86	74.00	-28.14	H	Peak	Pass	Harmonic
24	802.11g	11	2483.51	51.47	54.00	-2.53	H	AVERAGE	Pass	Band Edge
	802.11g	11	7386.00	44.89	74.00	-29.11	V	Peak	Pass	Harmonic
25	802.11be EHT20	01	2389.82	50.78	54.00	-3.22	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	4824.00	43.99	74.00	-30.01	H	Peak	Pass	Harmonic
26	802.11be EHT20	06	-	-	-	-	-	-	-	Band Edge
	802.11be EHT20	06	7311.00	45.46	74.00	-28.54	H	Peak	Pass	Harmonic
27	802.11be EHT20	11	2483.51	51.02	54.00	-2.98	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	7386.00	44.91	74.00	-29.09	H	Peak	Pass	Harmonic
28	802.11be EHT40	03	2389.41	51.41	54.00	-2.59	H	AVERAGE	Pass	Band Edge
	802.11be EHT40	03	-	-	-	-	-	-	-	Harmonic
29	802.11be EHT40	09	2485.50	51.76	54.00	-2.64	H	AVERAGE	Pass	Band Edge
	802.11be EHT40	09	-	-	-	-	-	-	-	Harmonic
30	802.11be EHT20	01	2384.62	42.18	54.00	-11.82	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
31	802.11be EHT20	11	2495.06	43.53	54.00	-10.47	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
32	802.11be EHT20	01	2389.56	42.37	54.00	-11.63	V	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
33	802.11be EHT20	01	2389.69	44.26	54.00	-9.74	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
34	802.11be EHT20	11	2483.58	44.18	54.00	-9.82	V	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
35	802.11be EHT20	11	2483.55	46.09	54.00	-7.91	H	AVERAGE	Pass	Band Edge
	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
36	802.11be EHT20	10	52.31	32.12	40.00	-7.88	V	PEAK	Pass	LF
37	802.11g	11	2483.51	47.12	54.00	-6.88	V	AVERAGE	Pass	Band Edge
	802.11g	11	7386.00	45.47	74.00	-28.53	H	PEAK	Pass	Harmonic
38	802.11g	02	2389.95	51.73	54.00	-2.27	H	AVERAGE	Pass	Band Edge
	802.11g	02	-	-	-	-	-	-	-	Harmonic
39	802.11g	10	2484.22	49.94	54.00	-4.06	H	AVERAGE	Pass	Band Edge



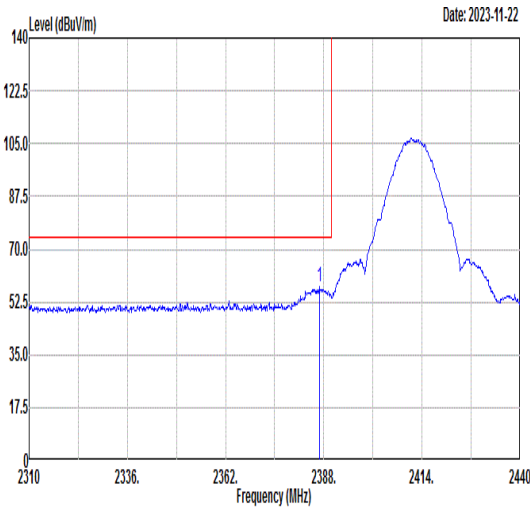
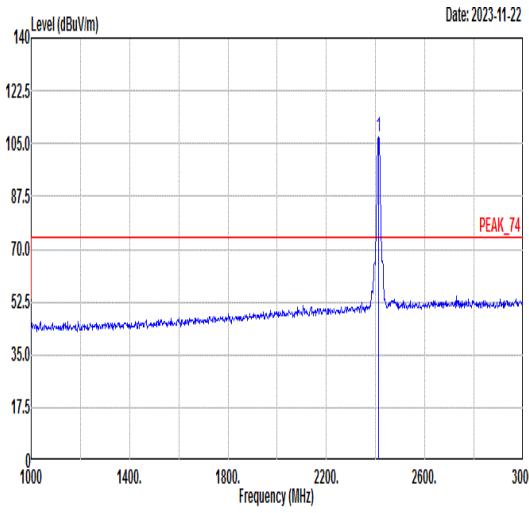
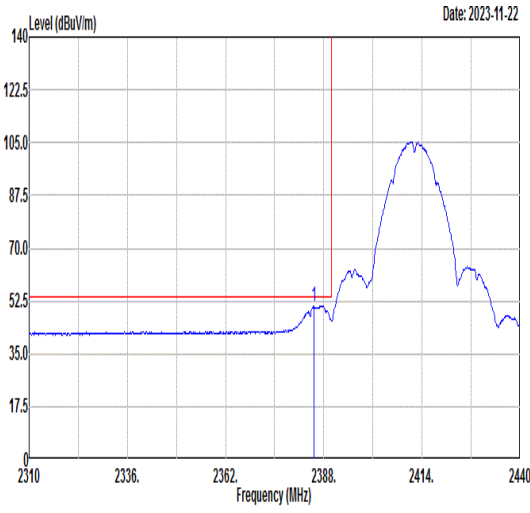
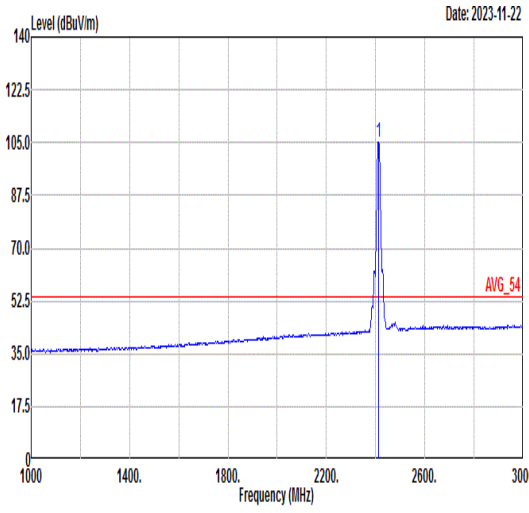
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
	802.11g	10	-	-	-	-	-	-	-	Harmonic
40	802.11be ETH20	02	2389.95	51.73	54.00	-2.27	H	AVERAGE	Pass	Band Edge
	802.11be ETH20	02	-	-	-	-	-	-	-	Harmonic
41	802.11be ETH20	10	2483.57	51.78	54.00	-2.22	H	AVERAGE	Pass	Band Edge
	802.11be ETH20	10	-	-	-	-	-	-	-	Harmonic
42	802.11be ETH40	04	2389.33	51.69	54.00	-2.31	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	04	-	-	-	-	-	-	-	Harmonic
43	802.11be ETH40	08	2484.35	51.08	54.00	-2.92	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	08	-	-	-	-	-	-	-	Harmonic
44	802.11be ETH40	07	2483.64	51.78	54.00	-2.22	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	07	-	-	-	-	-	-	-	Harmonic
45	802.11be ETH40	06	2483.62	50.48	54.00	-3.52	V	AVERAGE	Pass	Band Edge
	802.11be ETH40	06	-	-	-	-	-	-	-	Harmonic
46	802.11b	02	2389.95	50.74	54.00	-3.26	H	AVERAGE	Pass	Band Edge
	802.11b	02	-	-	-	-	-	-	-	Harmonic
47	802.11b	03	2384.49	47.98	54.00	-6.02	H	AVERAGE	Pass	Band Edge
	802.11b	03	-	-	-	-	-	-	-	Harmonic
48	802.11g	02	2389.69	49.03	54.00	-4.97	H	AVERAGE	Pass	Band Edge
	802.11g	02	-	-	-	-	-	-	-	Harmonic
49	802.11g	10	2483.70	50.01	54.00	-3.99	H	AVERAGE	Pass	Band Edge
	802.11g	10	-	-	-	-	-	-	-	Harmonic
50	802.11be ETH20	02	2389.95	51.33	54.00	-2.67	H	AVERAGE	Pass	Band Edge
	802.11be ETH20	02	-	-	-	-	-	-	-	Harmonic
51	802.11be ETH20	10	2483.53	51.85	54.00	-2.15	H	AVERAGE	Pass	Band Edge
	802.11be ETH20	10	-	-	-	-	-	-	-	Harmonic
52	802.11be ETH40	04	2389.33	53.48	54.00	-0.52	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	04	-	-	-	-	-	-	-	Harmonic
53	802.11be ETH40	08	2484.26	62.98	54.00	8.98	H	AVERAGE	Fail	Band Edge
	802.11be ETH40	08	-	-	-	-	-	-	-	Harmonic
54	802.11be ETH40	07	2483.93	50.53	54.00	-3.47	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	07	-	-	-	-	-	-	-	Harmonic
55	802.11be ETH40	06	2483.56	50.94	54.00	-3.06	H	AVERAGE	Pass	Band Edge
	802.11be ETH40	06	-	-	-	-	-	-	-	Harmonic

Co-location

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
56	Co-location		2483.70	51.62	54.00	-2.38	V	AVERAGE	Pass	Band Edge
			7386.00	45.16	74.00	-28.84	V	Peak	Pass	Harmonic
57	Co-location		2483.51	49.48	54.00	-4.52	H	AVERAGE	Pass	Band Edge
			7386.00	46.22	74.00	-27.78	V	Peak	Pass	Harmonic
58	Co-location		2483.51	46.72	54.00	-7.28	H	AVERAGE	Pass	Band Edge
			7386.00	44.08	74.00	-29.92	H	Peak	Pass	Harmonic
59	Co-location		2483.52	47.07	54.00	-6.93	V	AVERAGE	Pass	Band Edge
	Co-location		7386.00	45.47	74.00	-28.53	H	Peak	Pass	Harmonic



		1																																																																																								
Mode		Band Edge																																																																																								
		2400-2483.5_802.11b_CH01_2412MHz																																																																																								
ANT		CDD 5+4																																																																																								
Pol.		Horizontal					Fundamental																																																																																			
Peak	 Level (dBuV/m) Date: 2023-11-22 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2386.96</td><td>57.45</td><td>74.00</td><td>-16.55</td><td>52.04</td><td>33.31</td><td>5.36</td><td>33.26</td><td>394</td><td>321</td><td>PEAK</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2386.96	57.45	74.00	-16.55	52.04	33.31	5.36	33.26	394	321	PEAK	 Level (dBuV/m) Date: 2023-11-22 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>107.34</td><td>-----</td><td>-----</td><td>101.81</td><td>33.37</td><td>5.38</td><td>33.22</td><td>394</td><td>321</td><td>PEAK</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	107.34	-----	-----	101.81	33.37	5.38	33.22	394	321	PEAK
		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																		
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																	
1	2386.96	57.45	74.00	-16.55	52.04	33.31	5.36	33.26	394	321	PEAK																																																																															
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																	
1	2412.00	107.34	-----	-----	101.81	33.37	5.38	33.22	394	321	PEAK																																																																															
Avg	 Level (dBuV/m) Date: 2023-11-22 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2385.40</td><td>50.82</td><td>54.00</td><td>-3.18</td><td>45.43</td><td>33.30</td><td>5.35</td><td>33.26</td><td>394</td><td>321</td><td>AVERAGE</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2385.40	50.82	54.00	-3.18	45.43	33.30	5.35	33.26	394	321	AVERAGE	 Level (dBuV/m) Date: 2023-11-22 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2412.00</td><td>105.24</td><td>-----</td><td>-----</td><td>99.72</td><td>33.37</td><td>5.38</td><td>33.23</td><td>394</td><td>321</td><td>AVERAGE</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	105.24	-----	-----	99.72	33.37	5.38	33.23	394	321	AVERAGE
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																	
1	2385.40	50.82	54.00	-3.18	45.43	33.30	5.35	33.26	394	321	AVERAGE																																																																															
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																	
1	2412.00	105.24	-----	-----	99.72	33.37	5.38	33.23	394	321	AVERAGE																																																																															