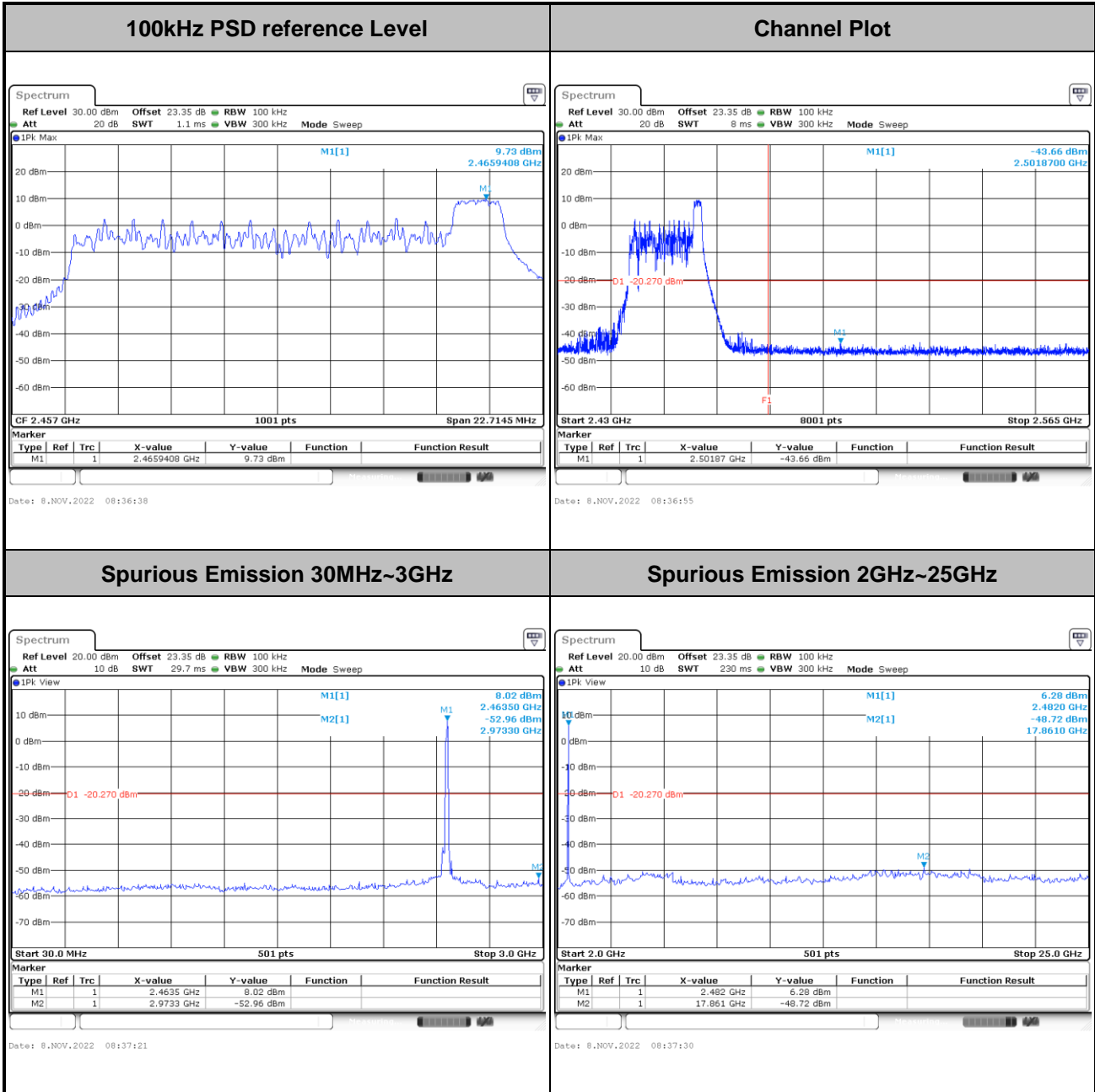


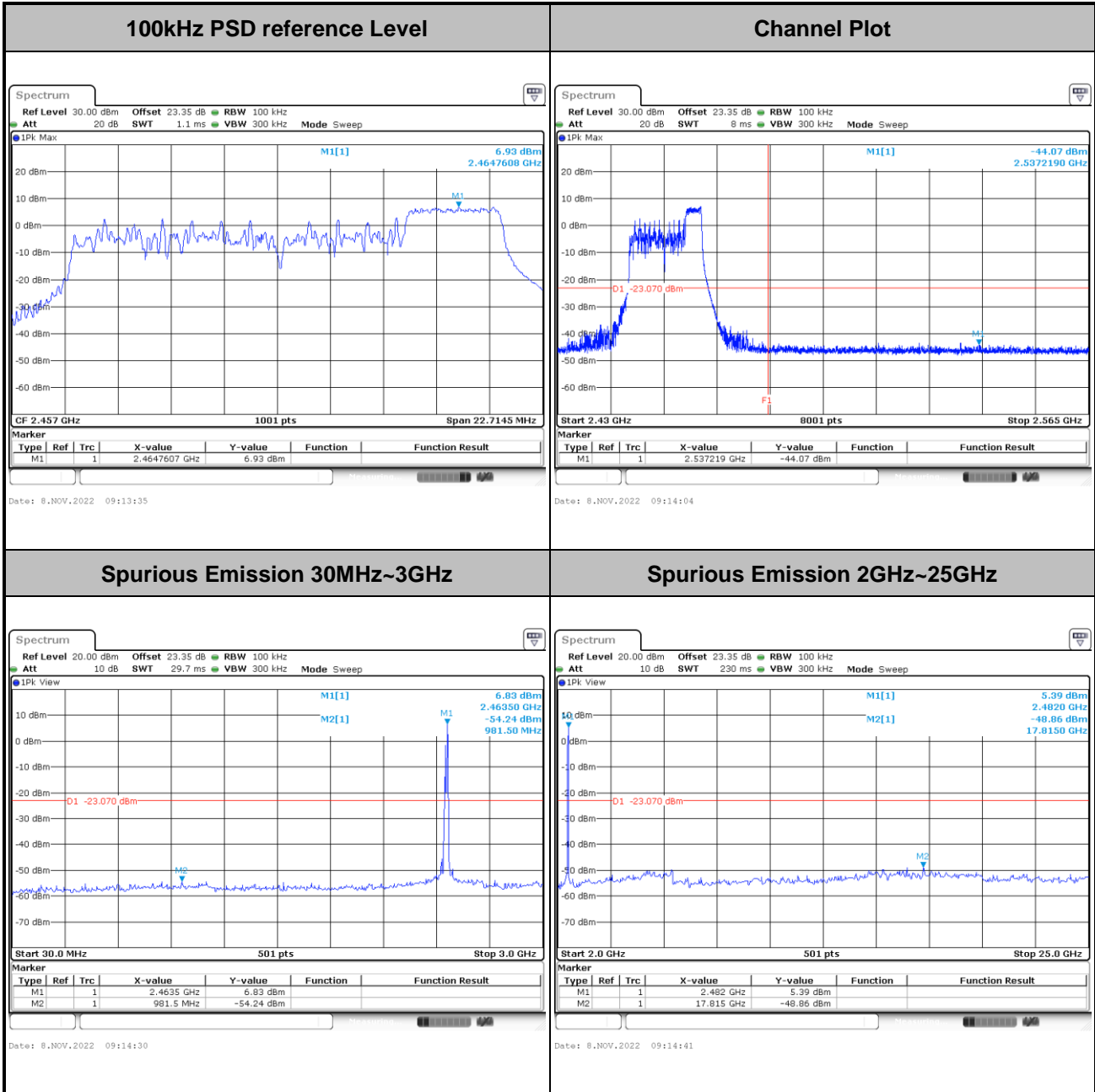


Test Mode :	802.11ax HE20	Test Channel :	10 Partial RU 26/8
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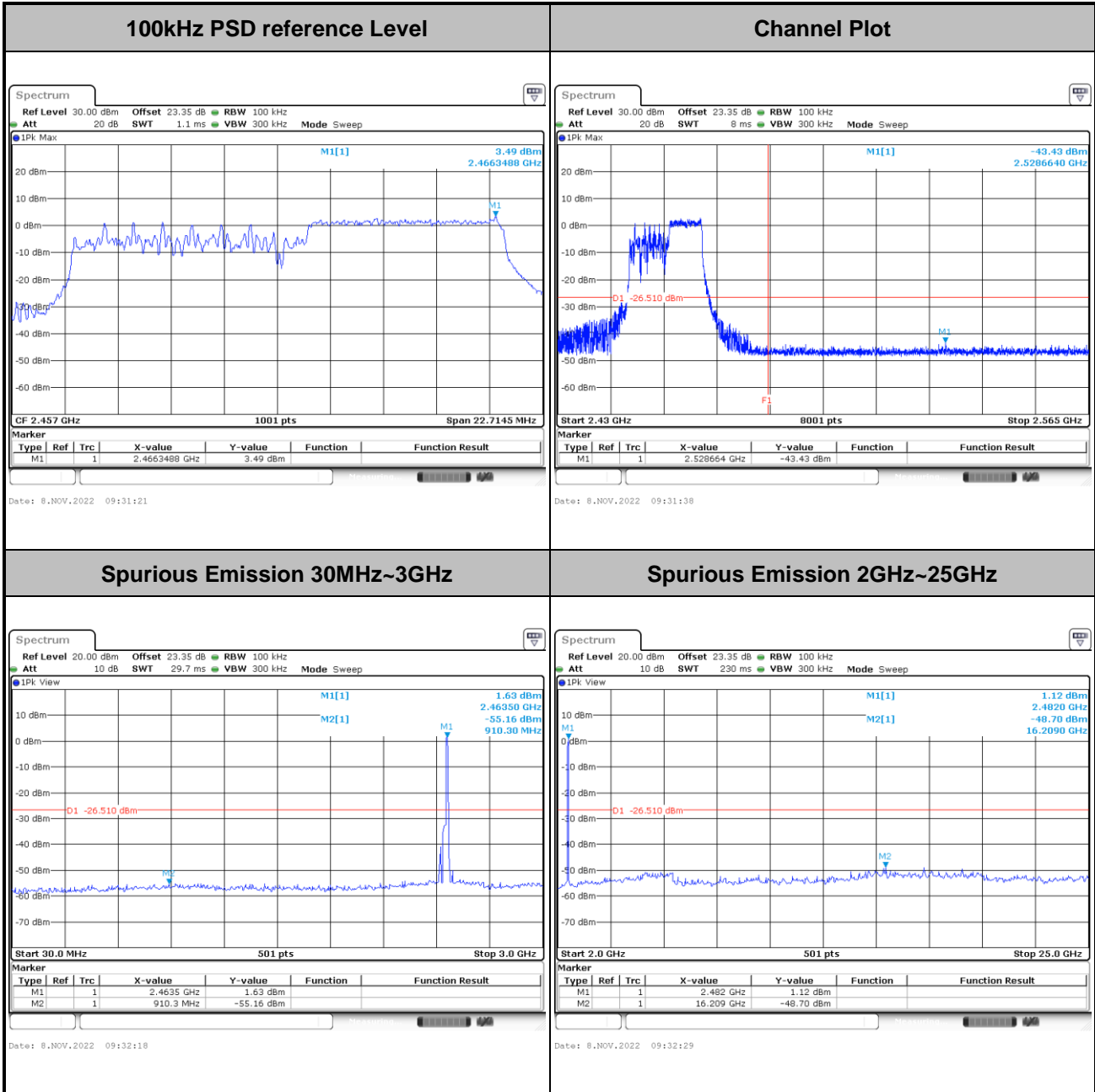


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	10 Partial RU 52/40
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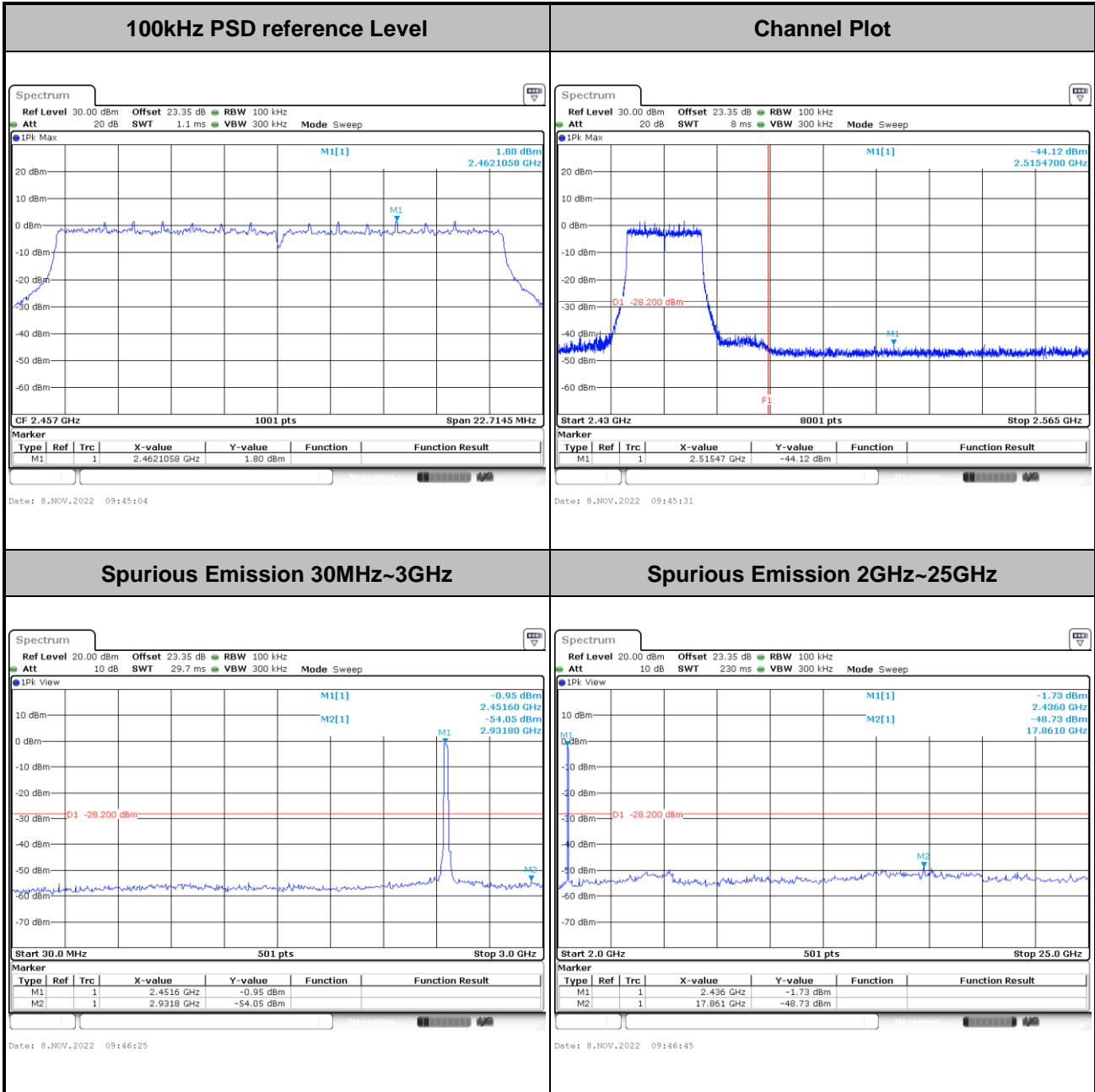


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	10 Partial RU 106/54
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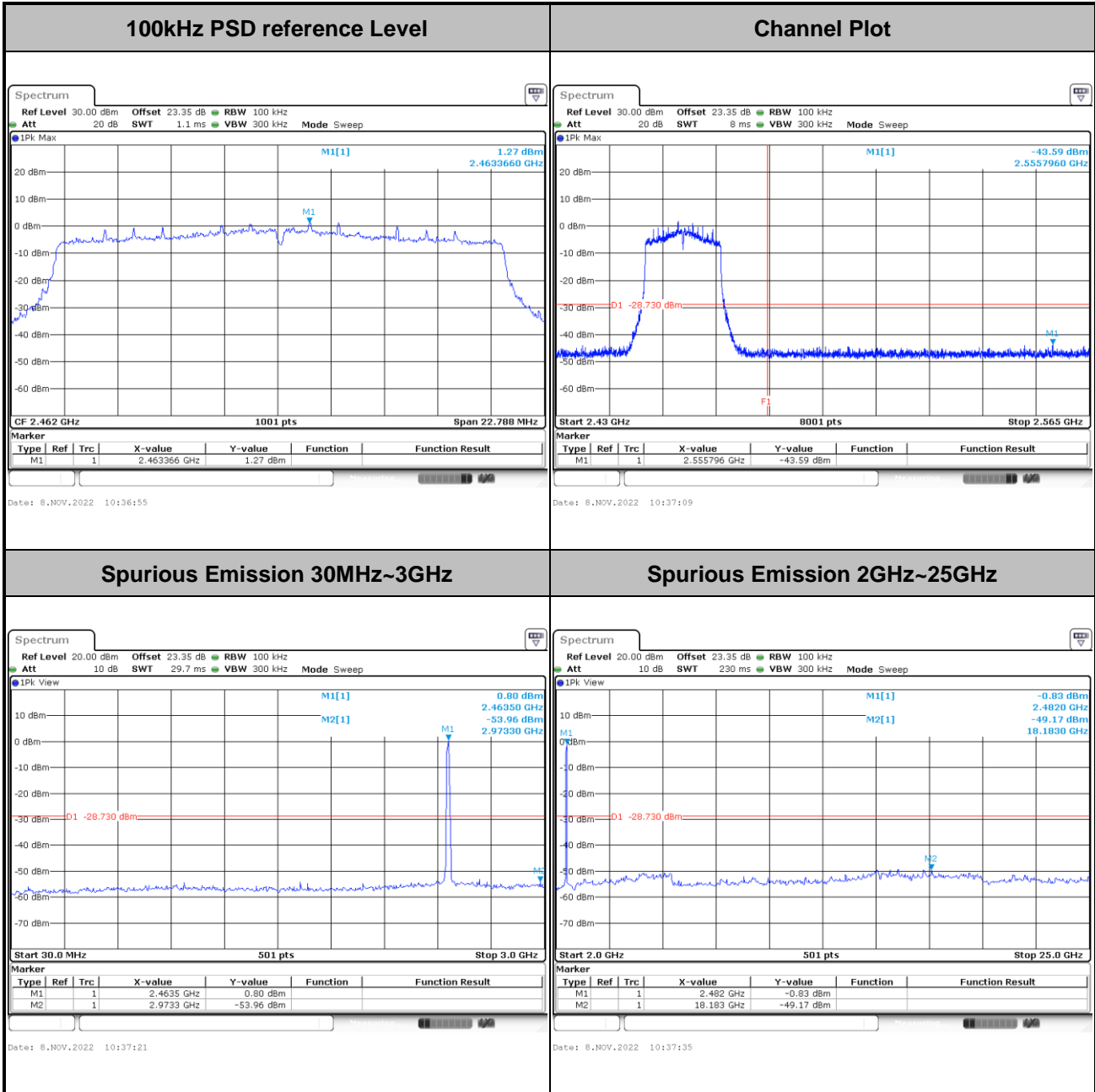


Test Mode :	802.11ax HE20	Test Channel :	10 Partial RU 242/61
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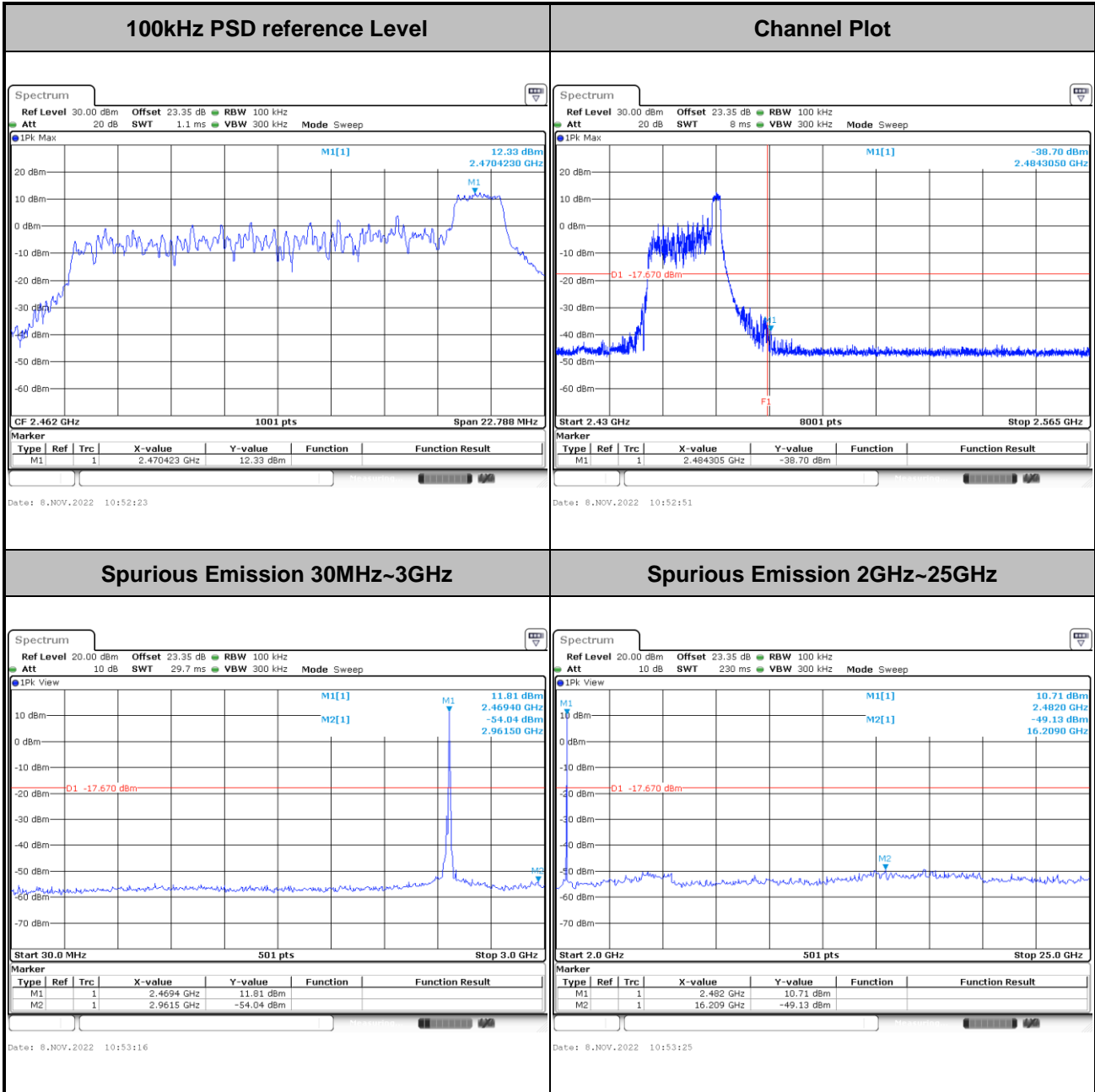


Test Mode :	802.11ax HE20	Test Channel :	11 Full RU
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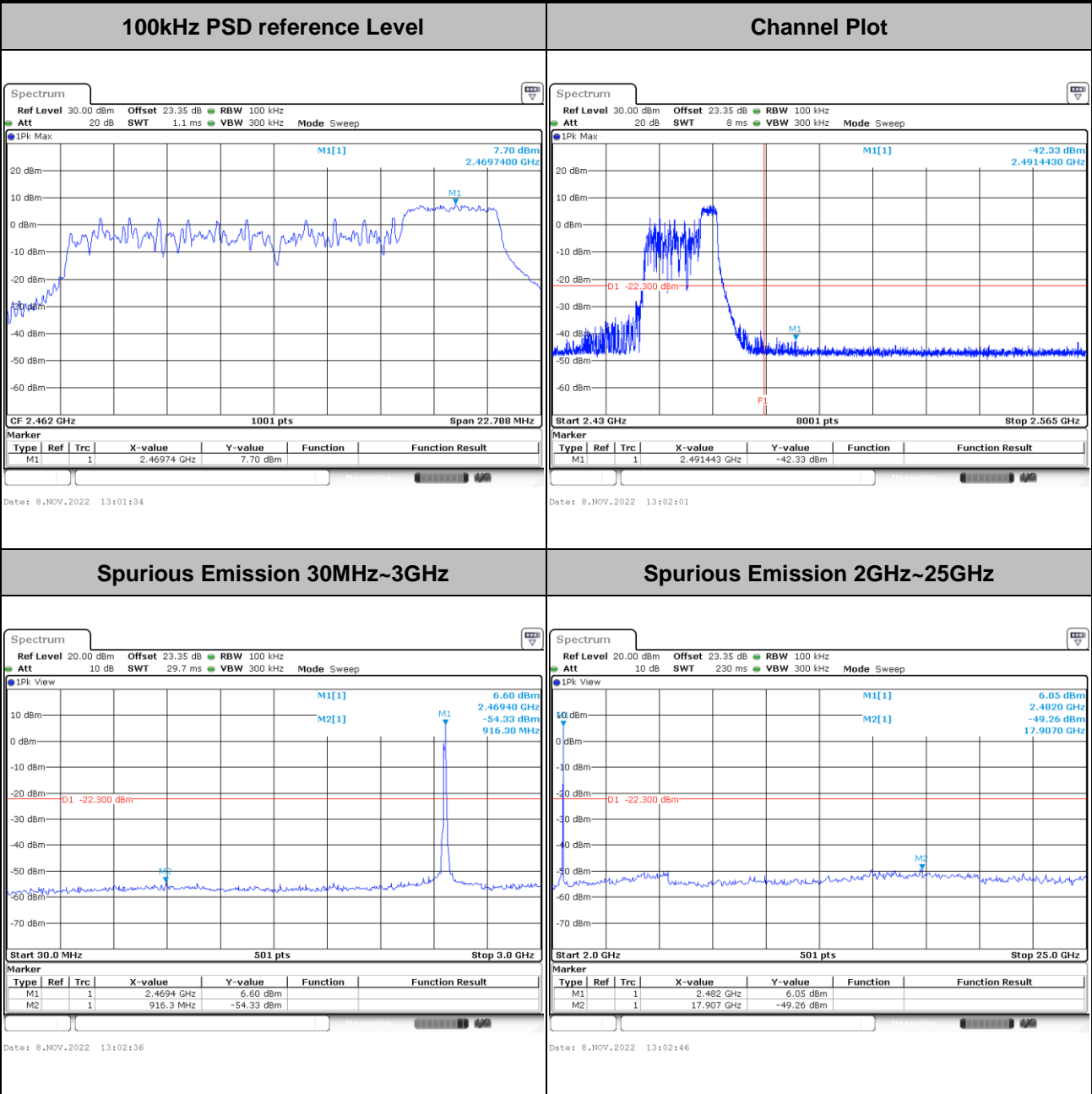


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	11 Partial RU 26/8
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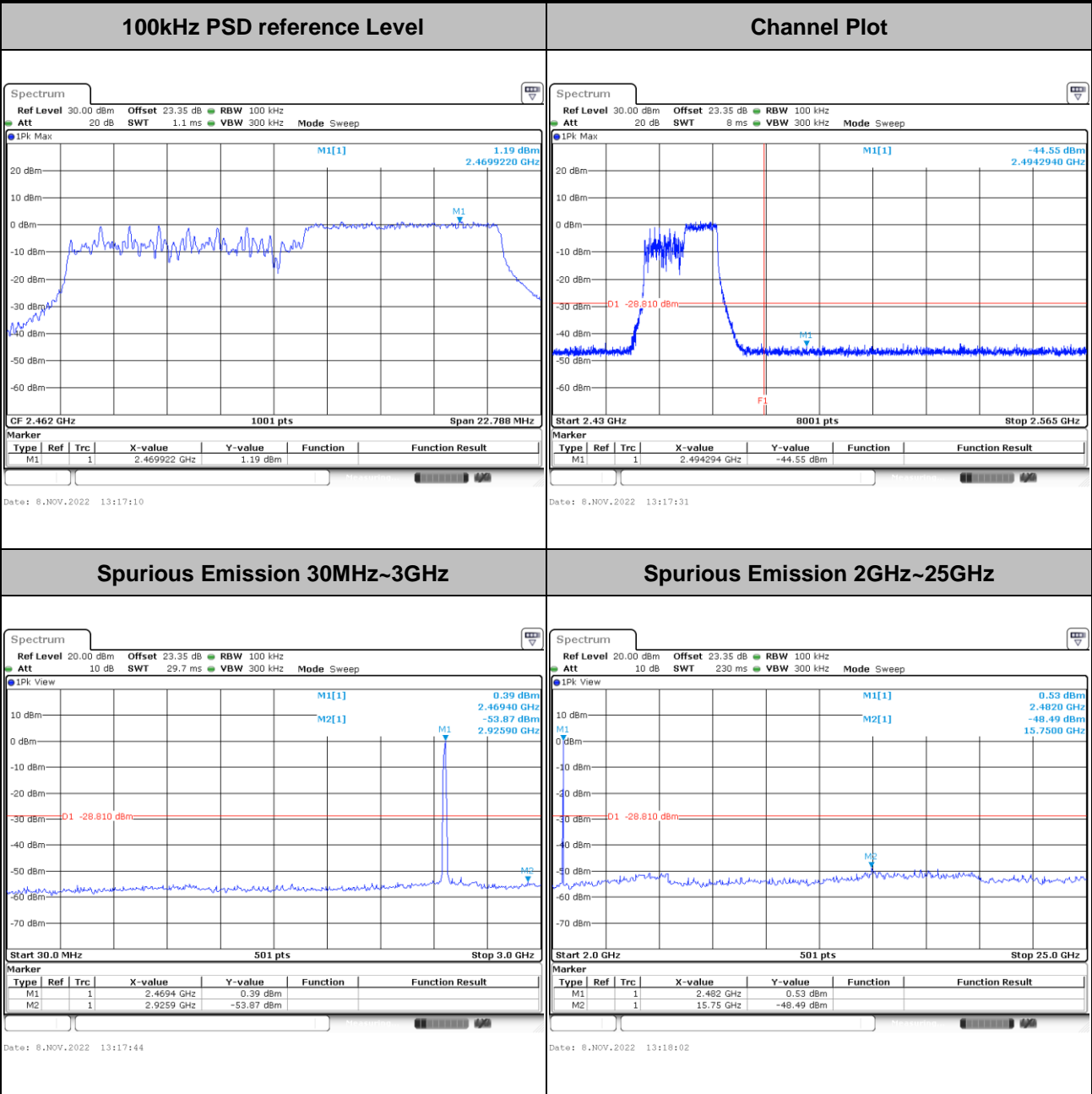


Test Mode :	802.11ax HE20	Test Channel :	11 Partial RU 52/40
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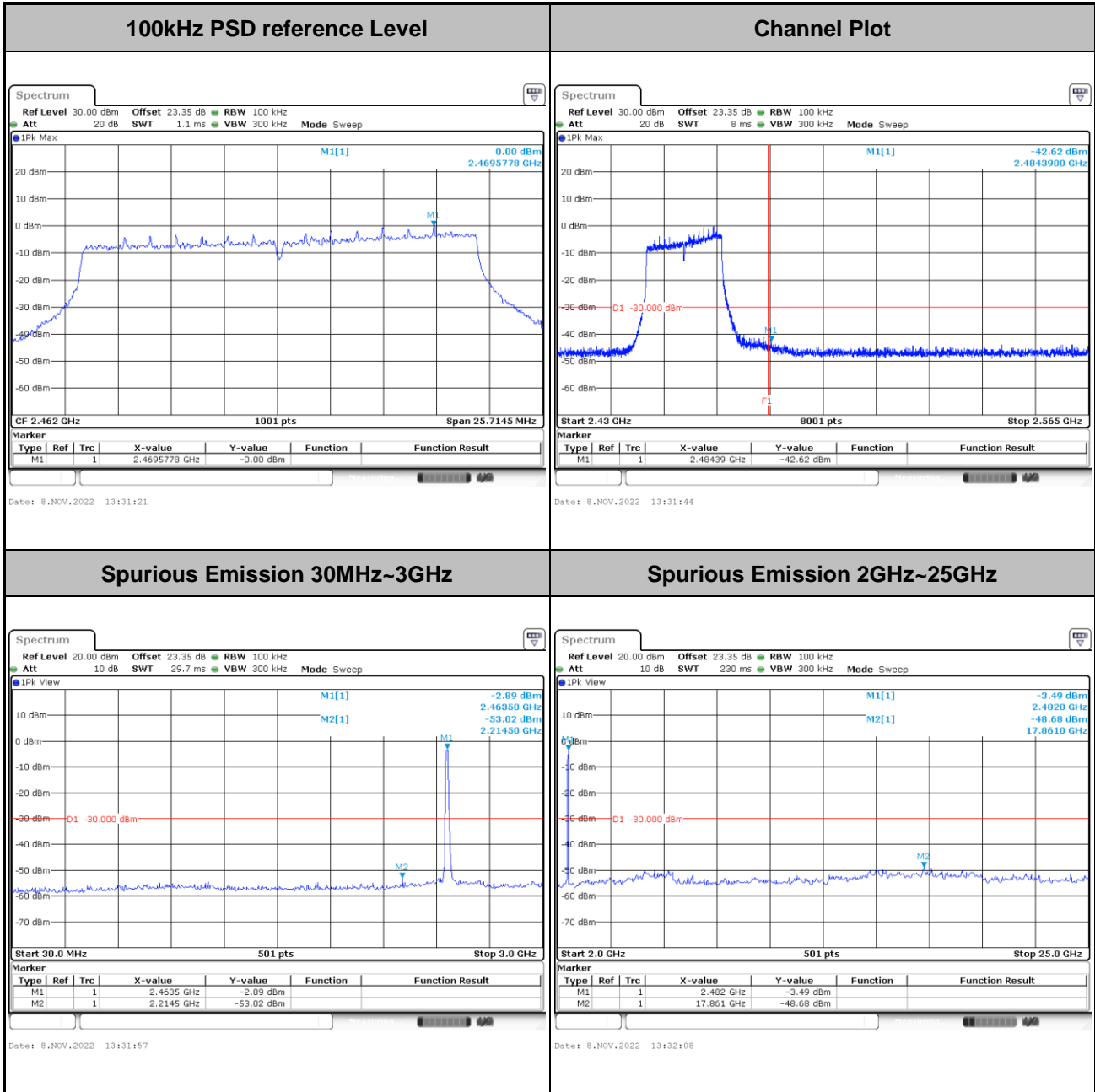
Test Mode :	802.11ax HE20	Test Channel :	11 Partial RU 106/54
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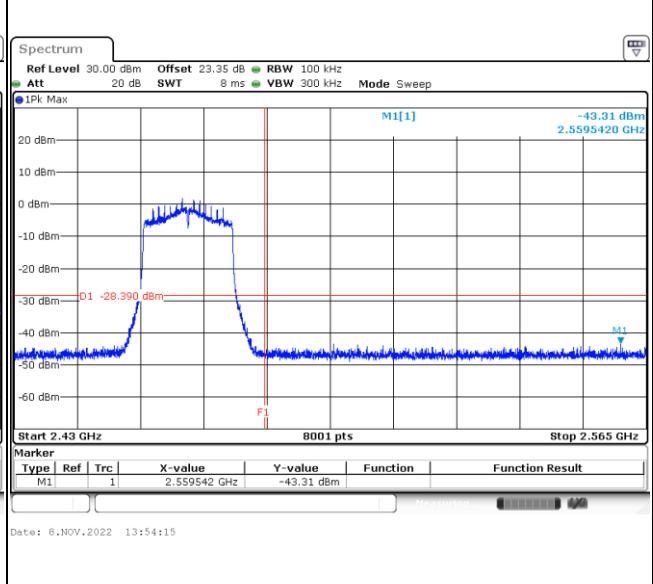
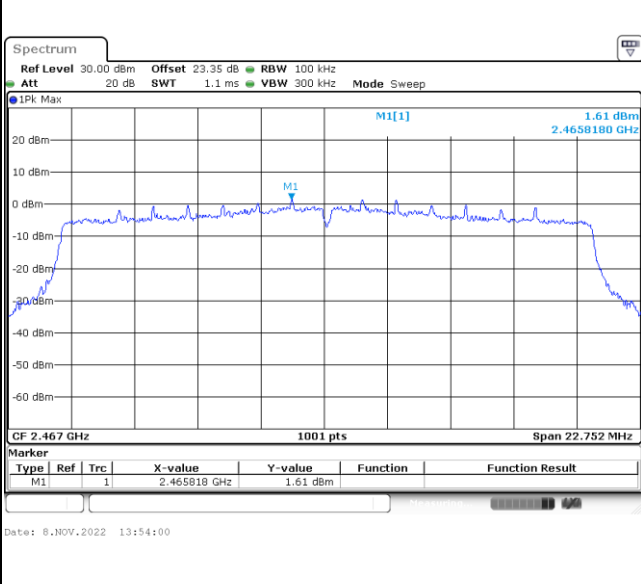
Test Mode :	802.11ax HE20	Test Channel :	11 Partial RU 242/61
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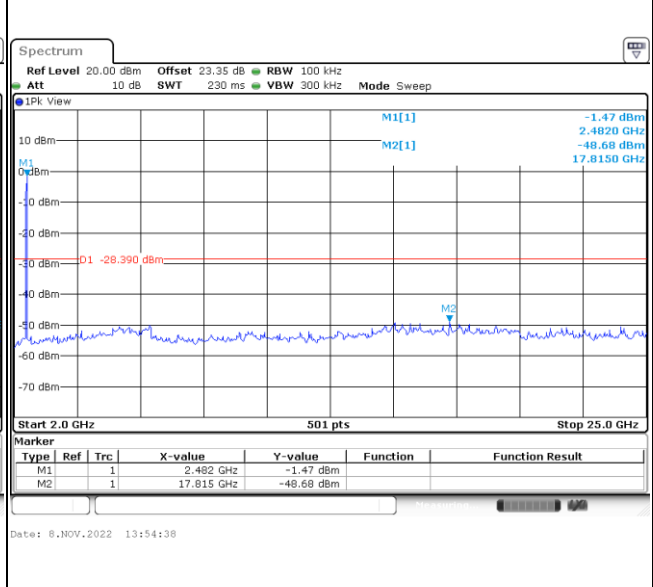
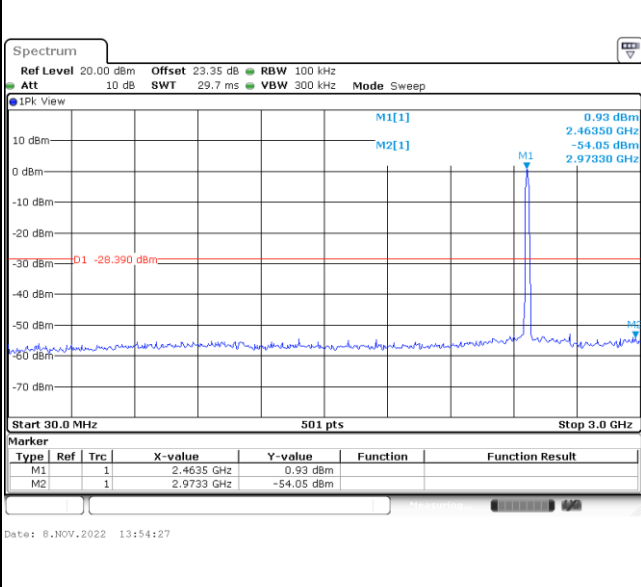


Test Mode :	802.11ax HE20	Test Channel :	12 Full RU
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<b>100kHz PSD reference Level</b>	<b>Channel Plot</b>
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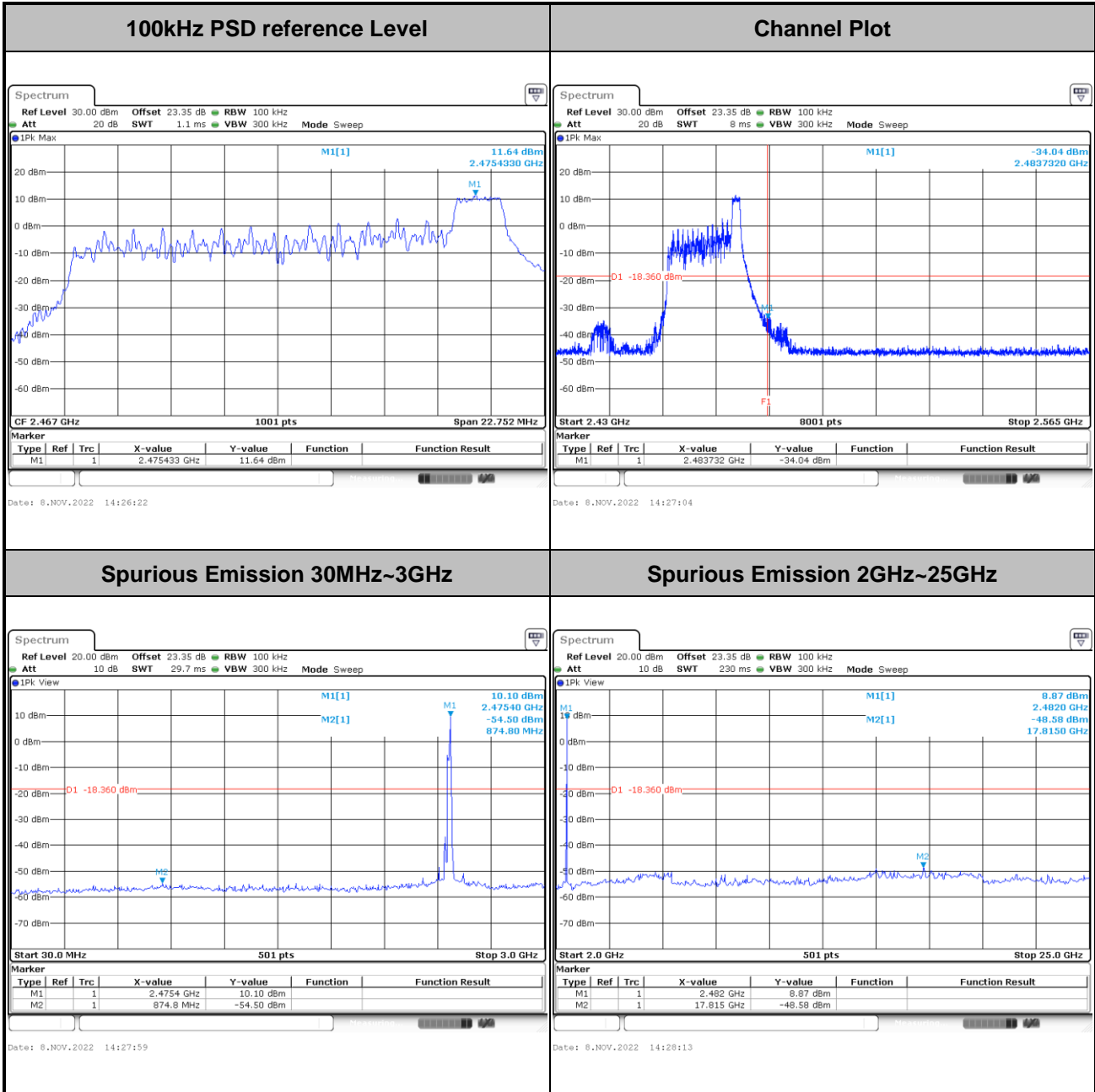


<b>Spurious Emission 30MHz~3GHz</b>	<b>Spurious Emission 2GHz~25GHz</b>
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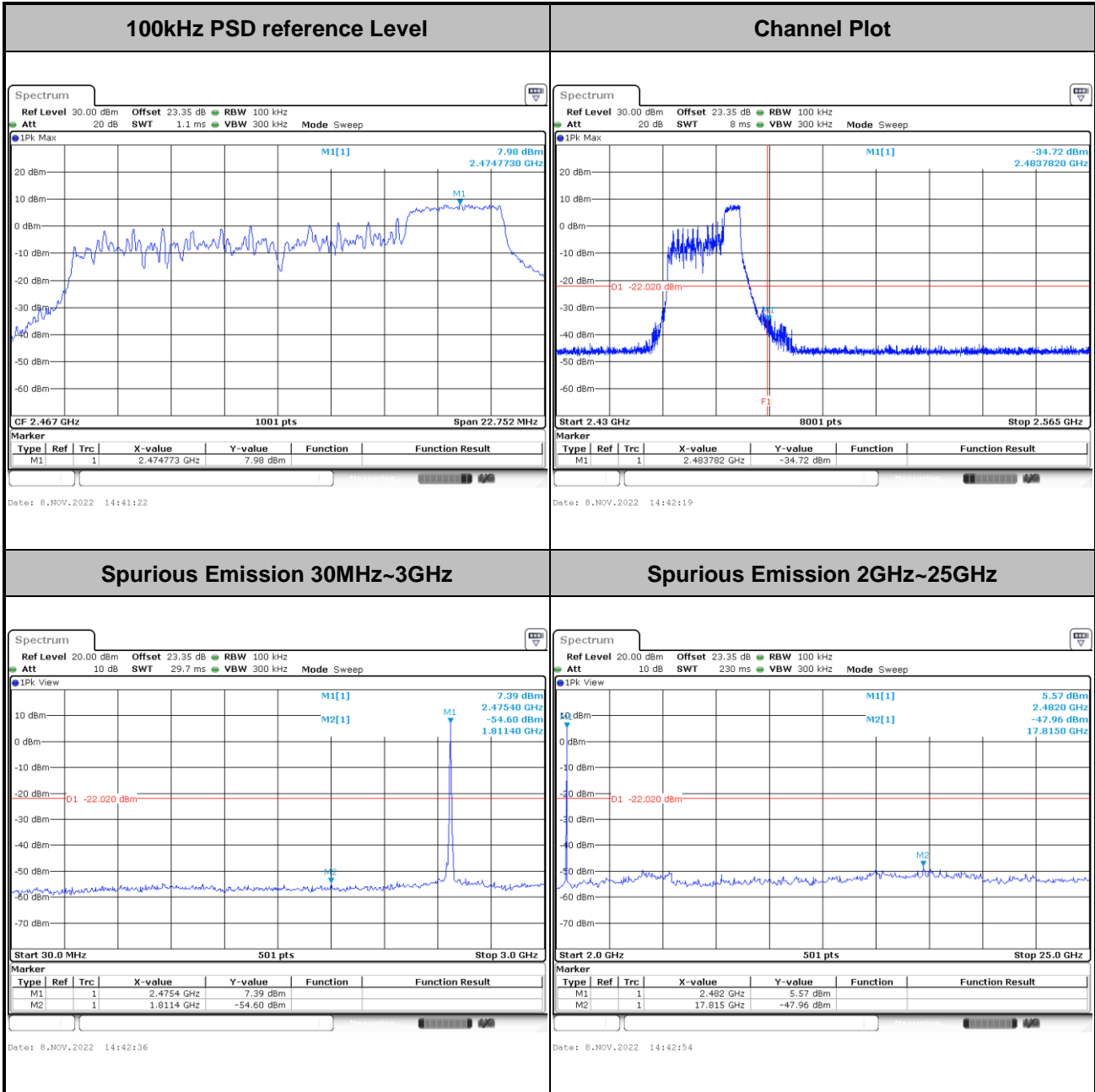


Test Mode :	802.11ax HE20	Test Channel :	12 Partial RU 26/8
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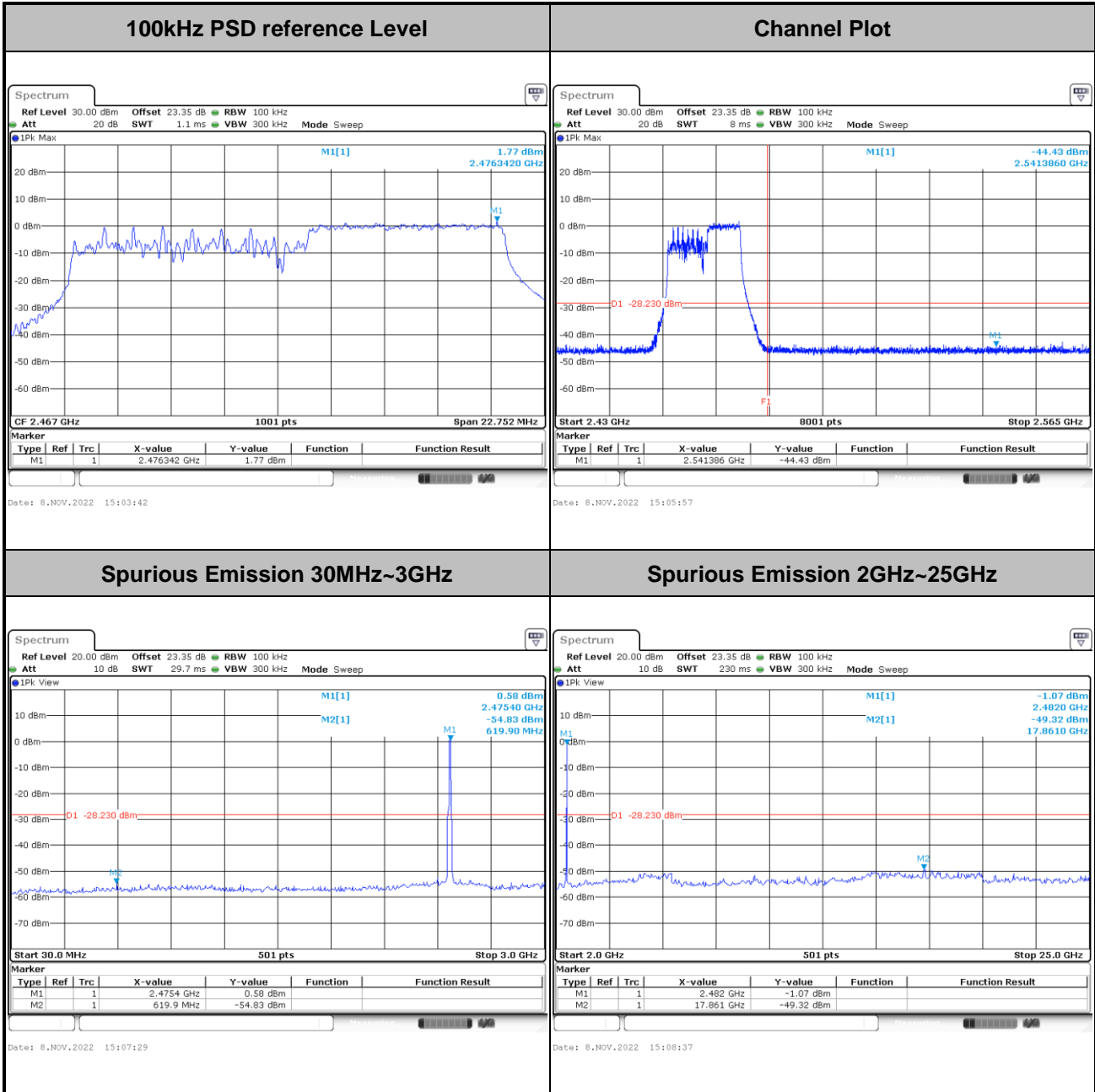


Test Mode :	802.11ax HE20	Test Channel :	12 Partial RU 52/40
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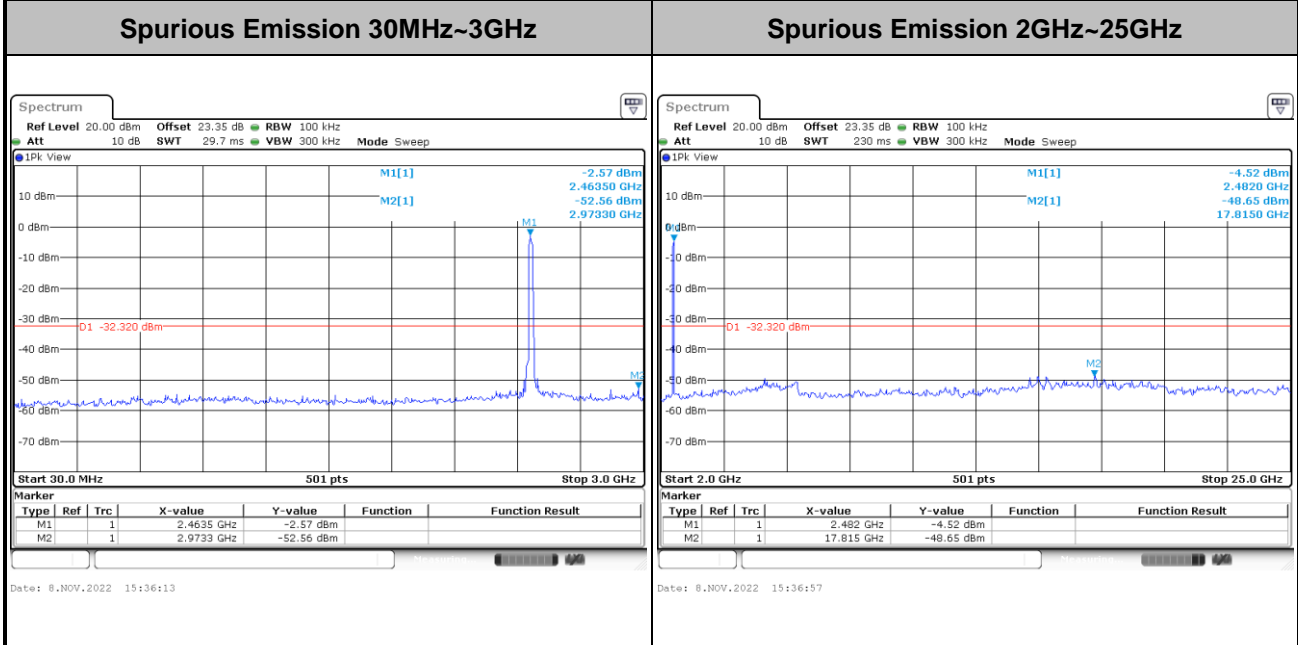
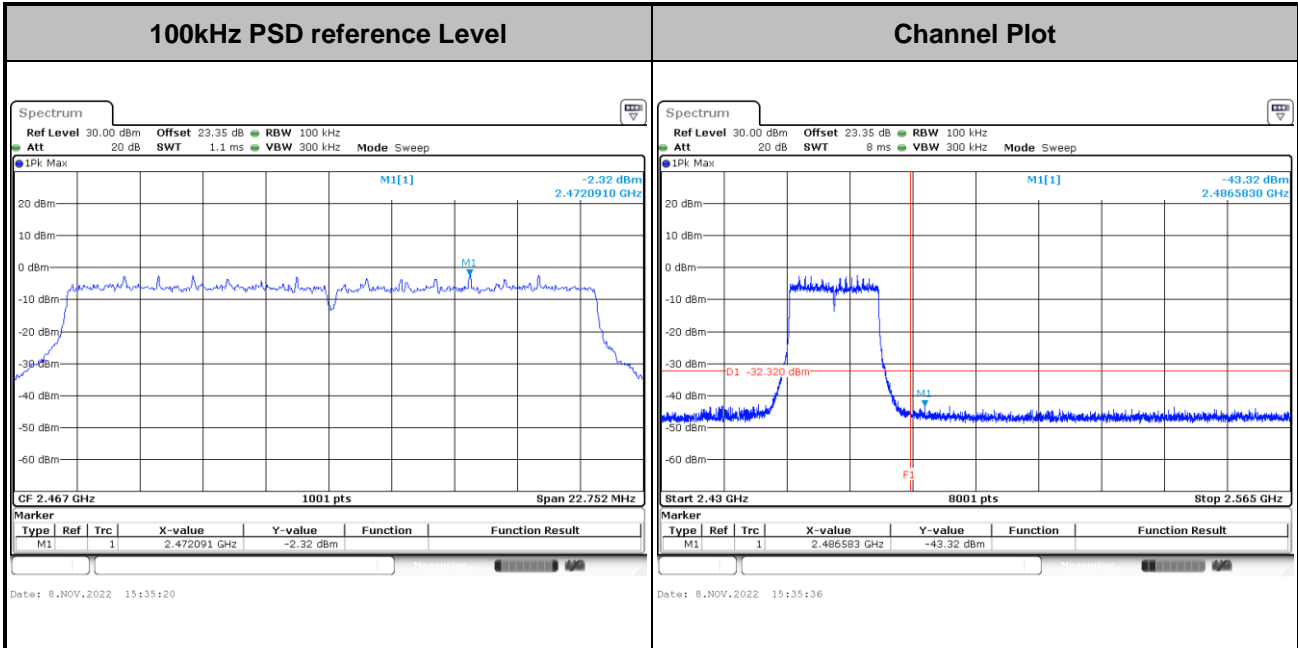


Test Mode :	802.11ax HE20	Test Channel :	12 Partial RU 106/54
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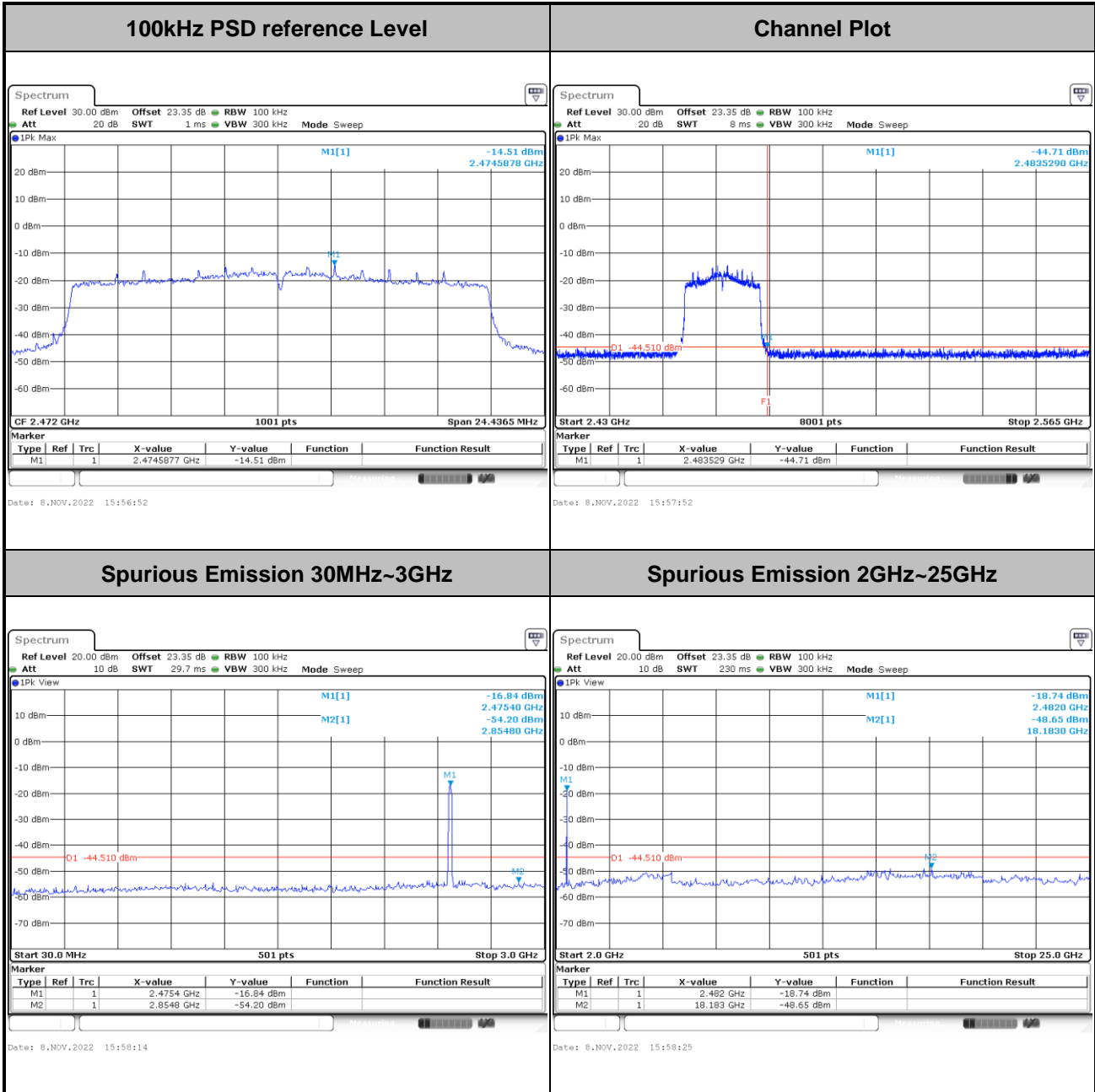


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	12 Partial RU 242/61
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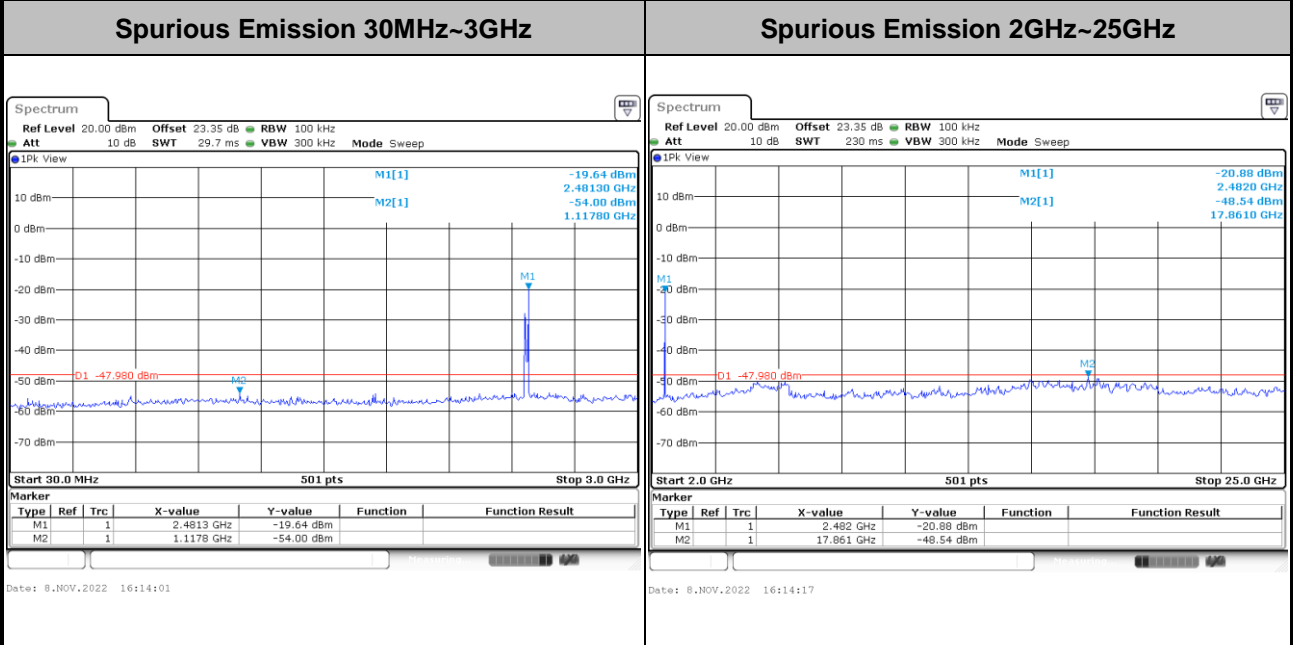
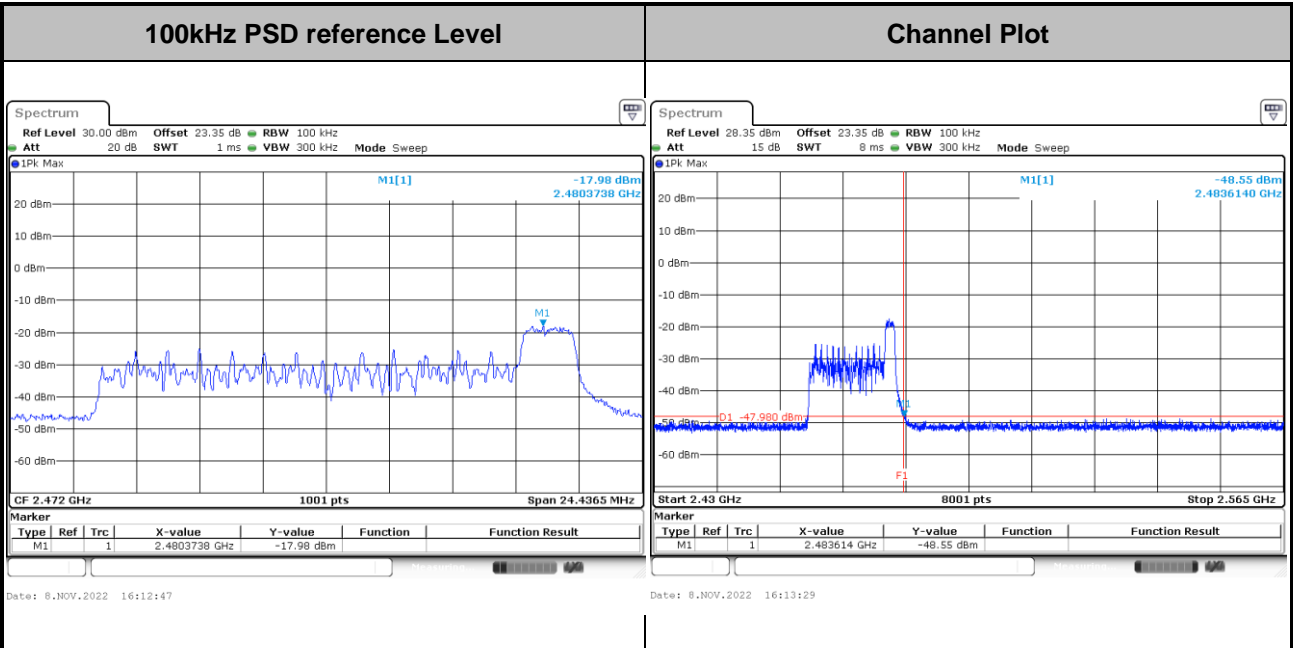


Test Mode :	802.11ax HE20	Test Channel :	13 Full Ru
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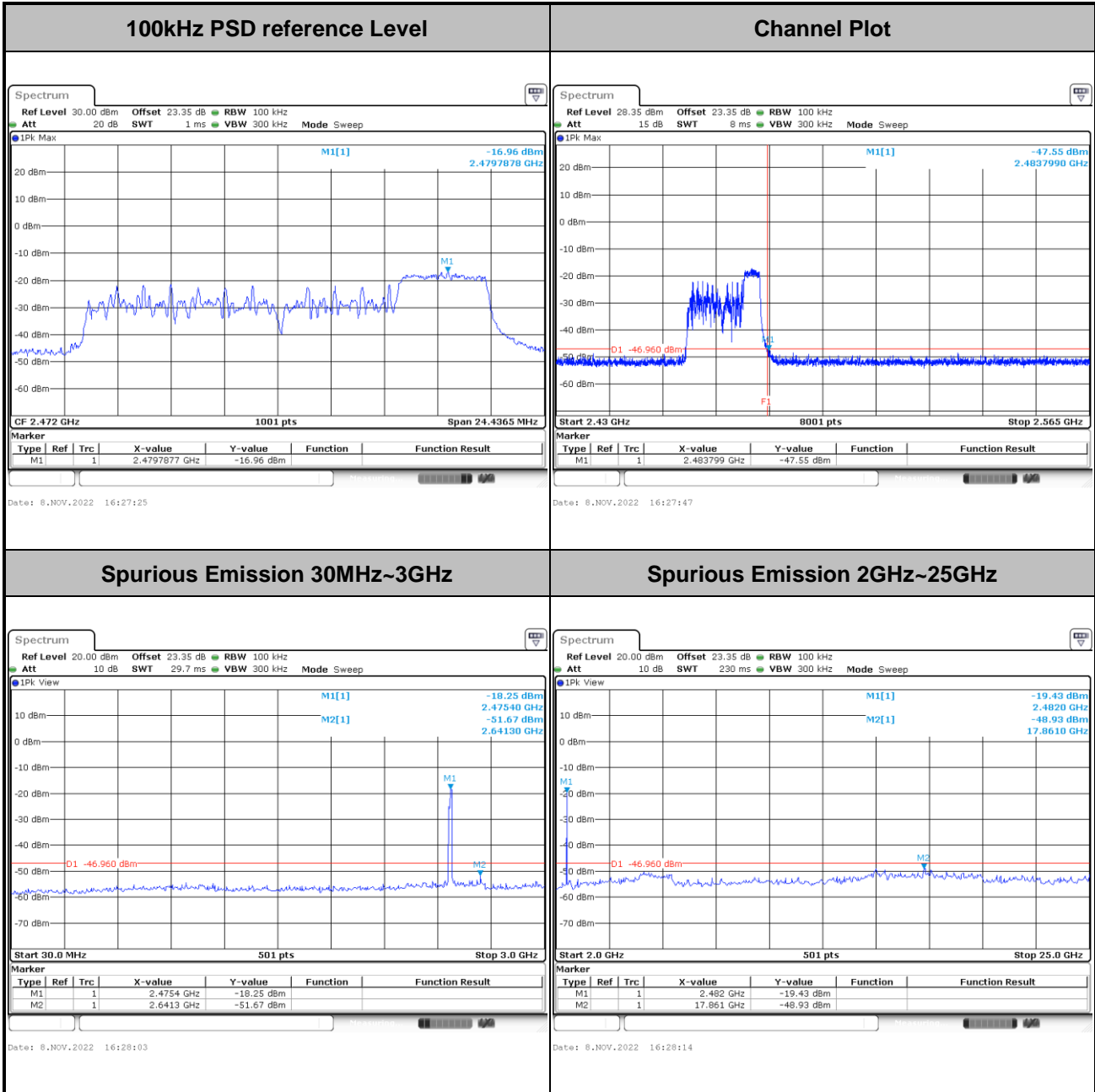
Test Mode :	802.11ax HE20	Test Channel :	13 Partial RU 26/8
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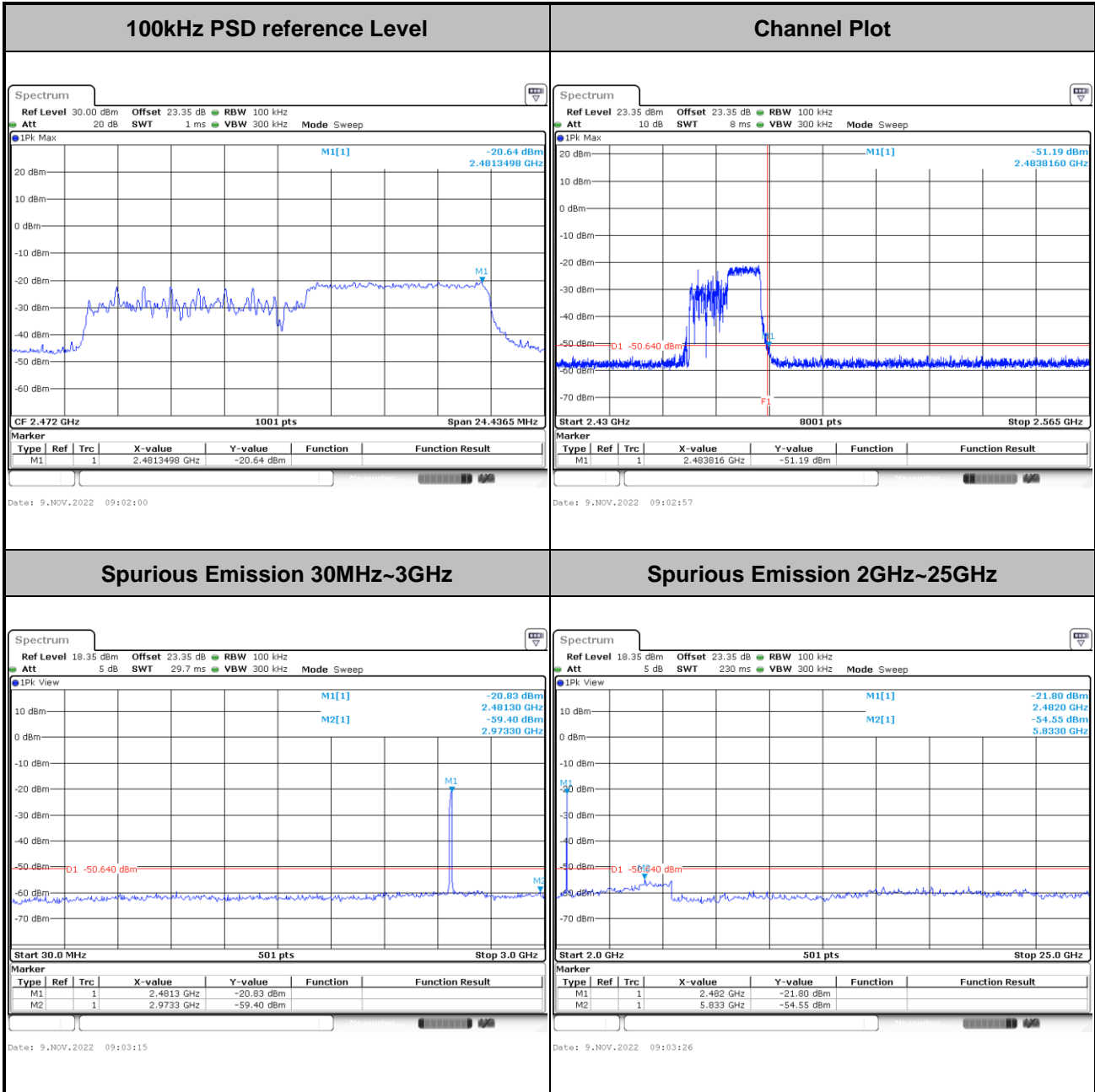


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	13 Partial RU 52/40
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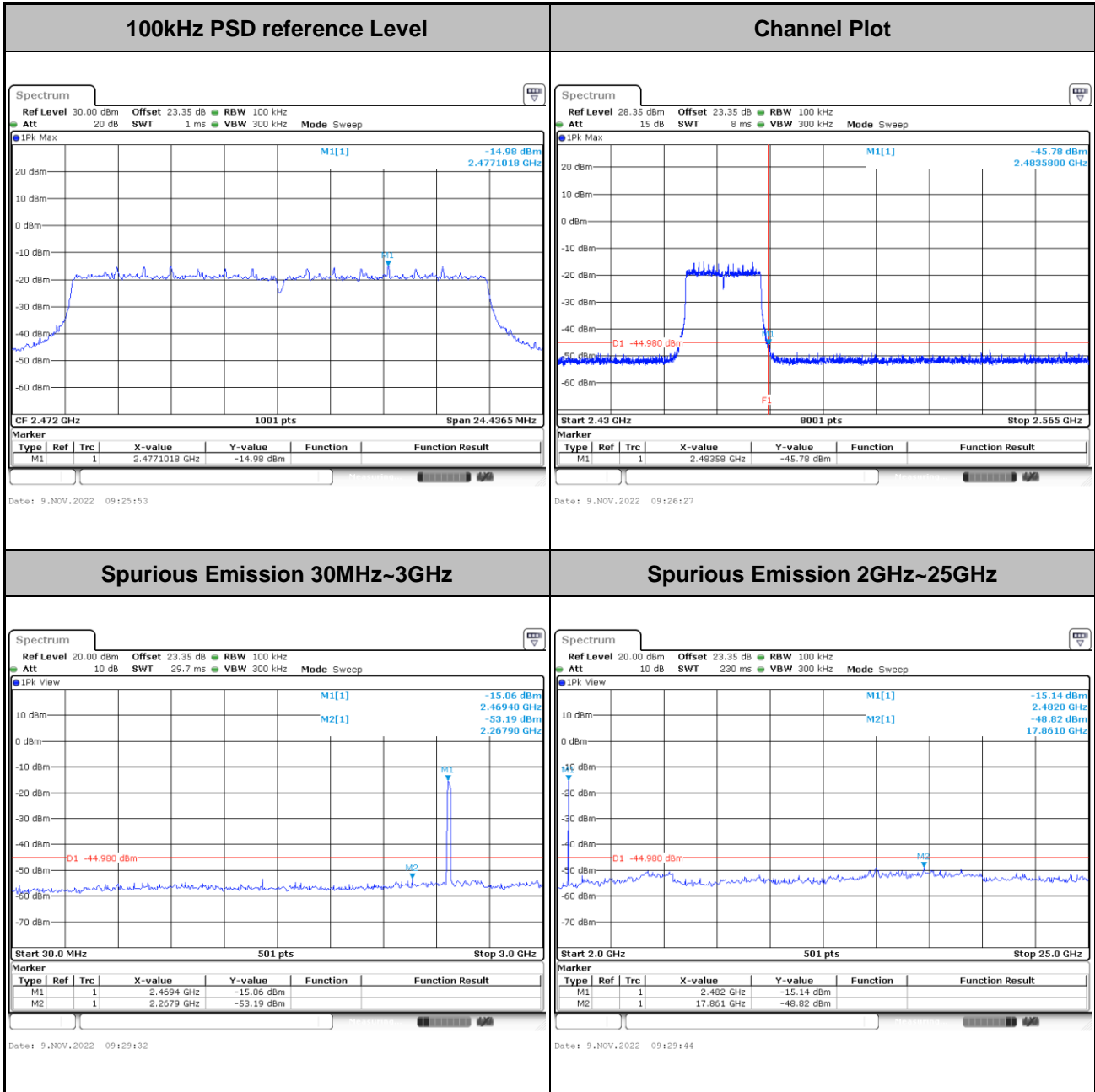


<b>Test Mode :</b>	802.11ax HE20	<b>Test Channel :</b>	13 Partial RU 106/54
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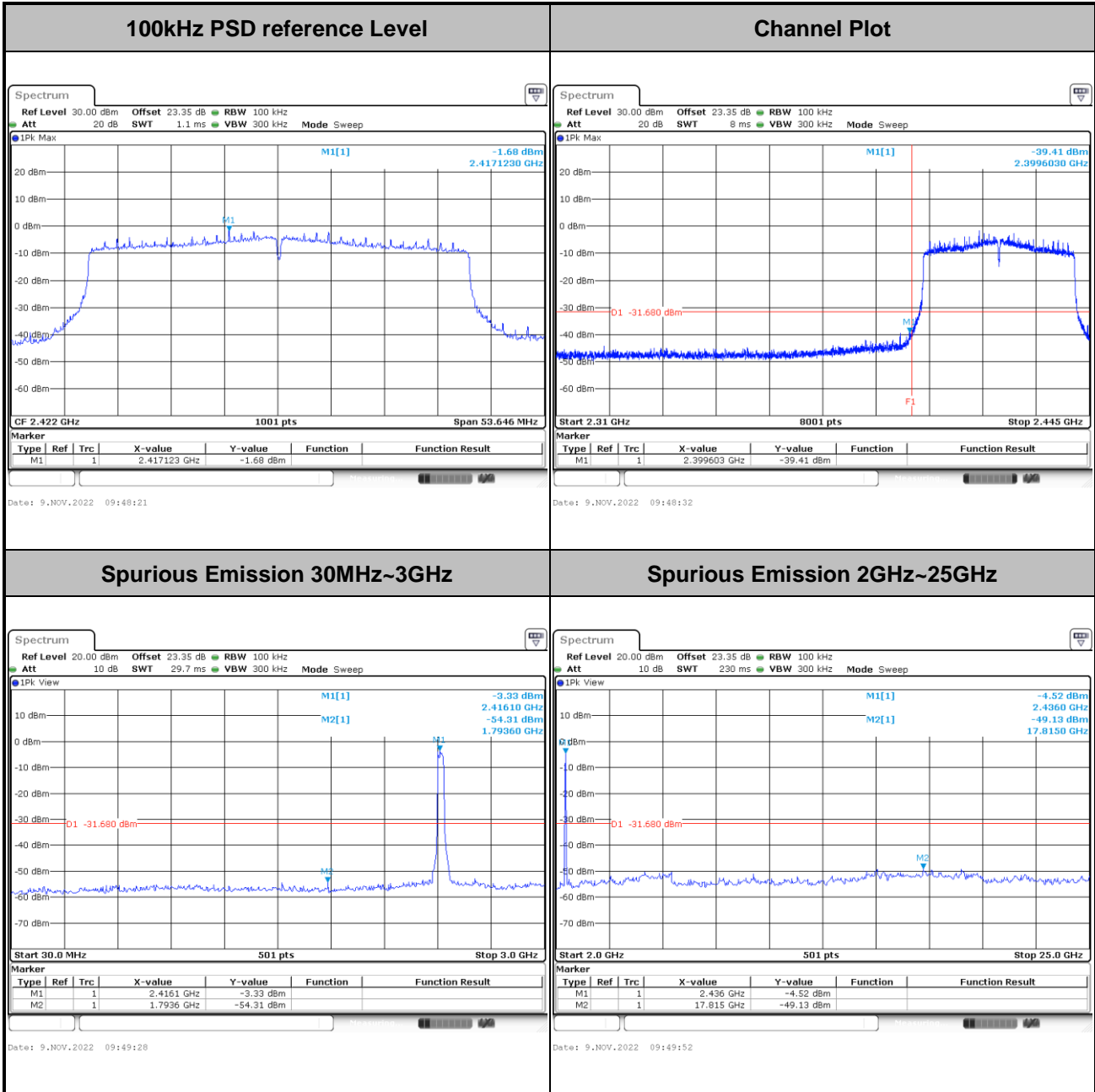


Test Mode :	802.11ax HE20	Test Channel :	13 Partial RU 242/61
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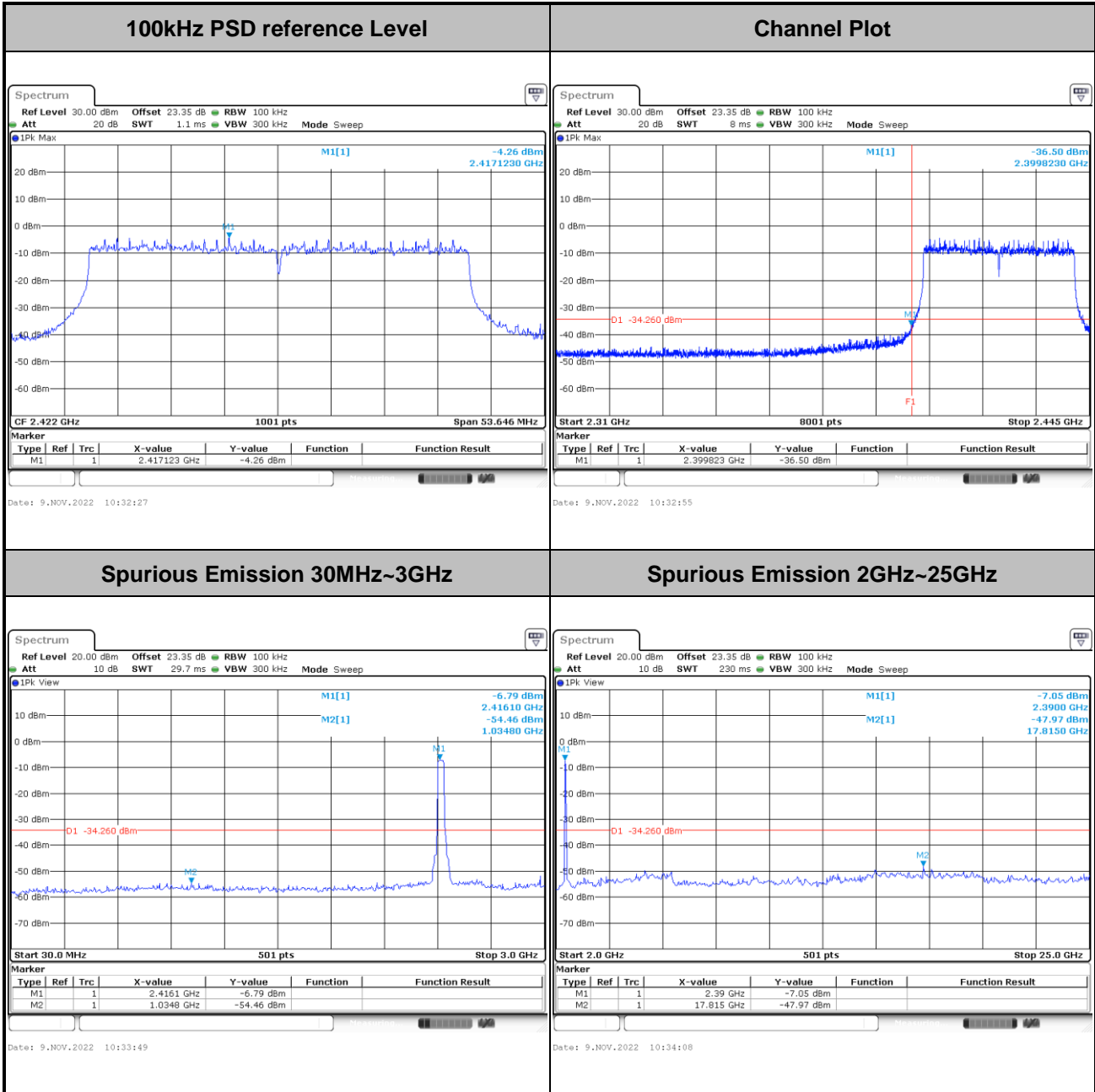


Test Mode :	802.11ax HE40	Test Channel :	03 Full RU
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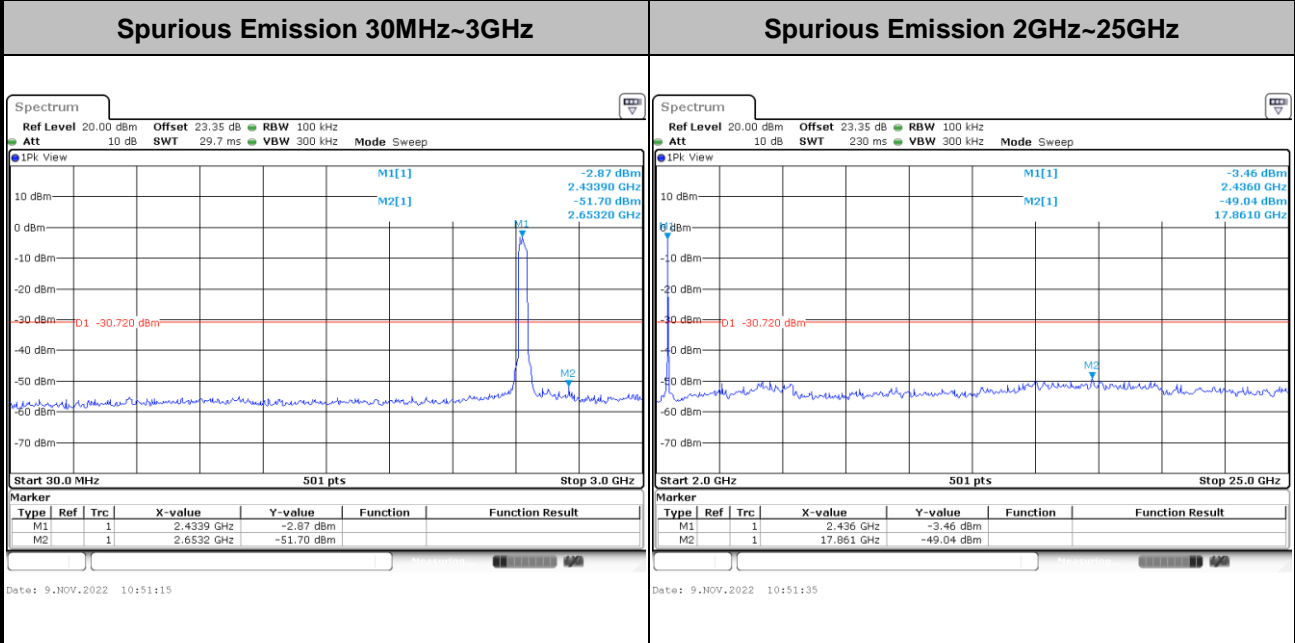
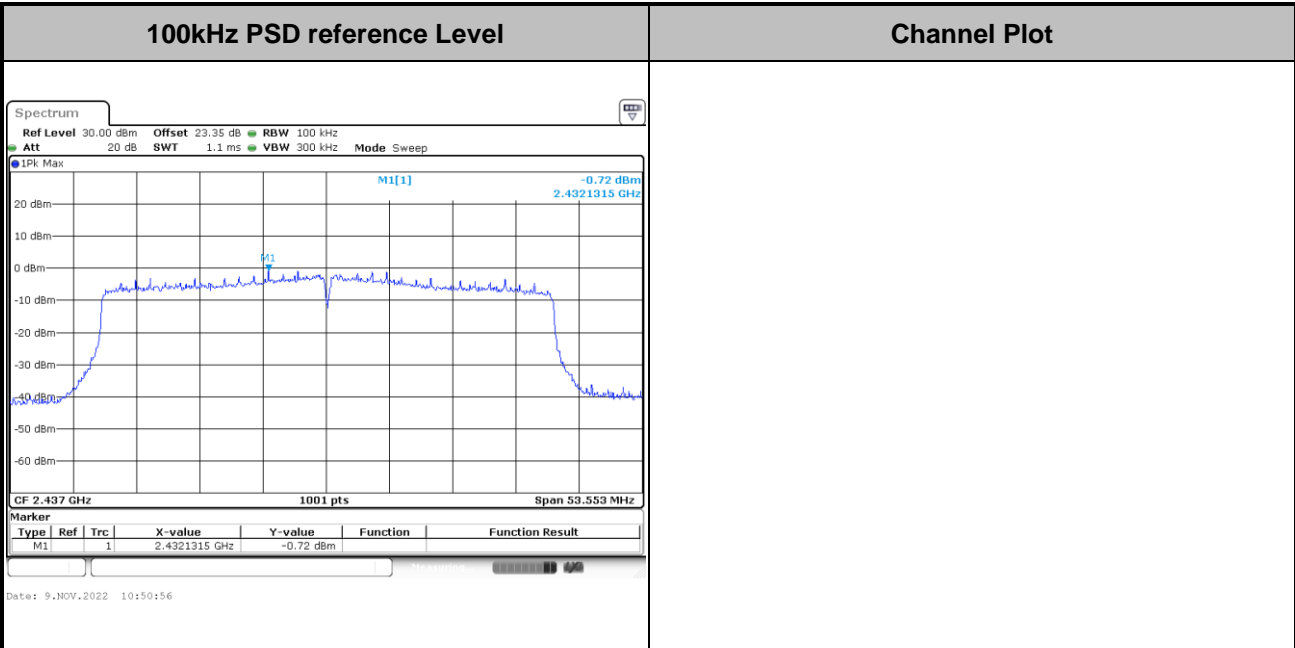


Test Mode :	802.11ax HE40	Test Channel :	03 Partial RU 484/65
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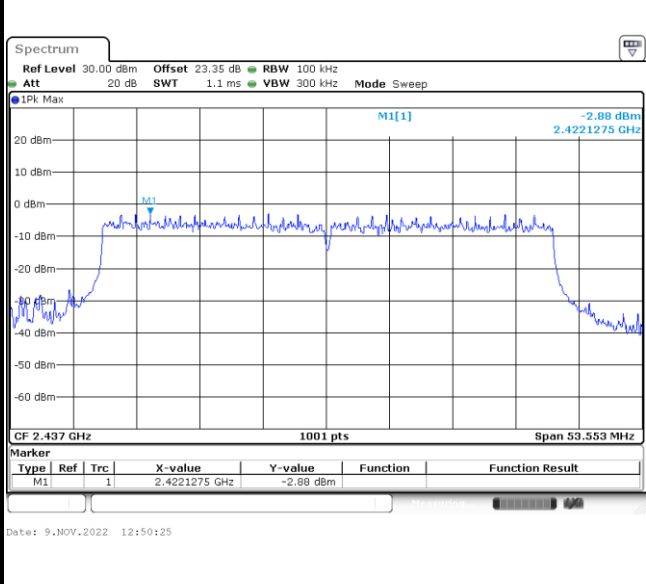
Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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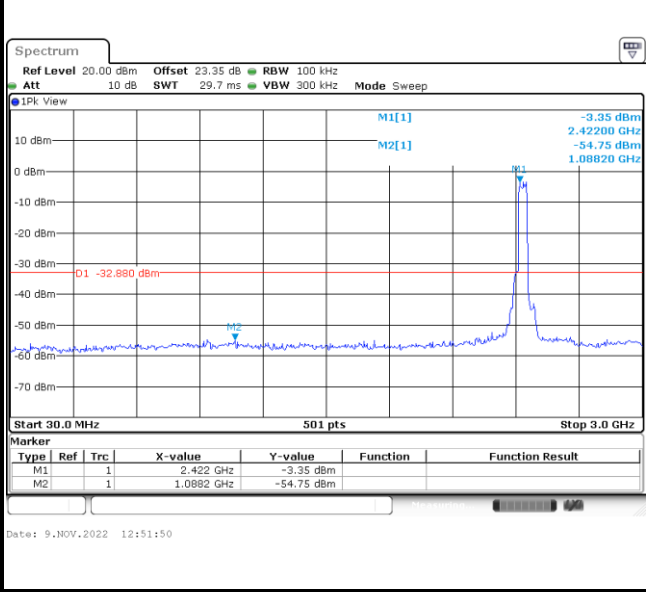


<b>Test Mode :</b>	802.11ax HE40	<b>Test Channel :</b>	06 Partial RU 484/65
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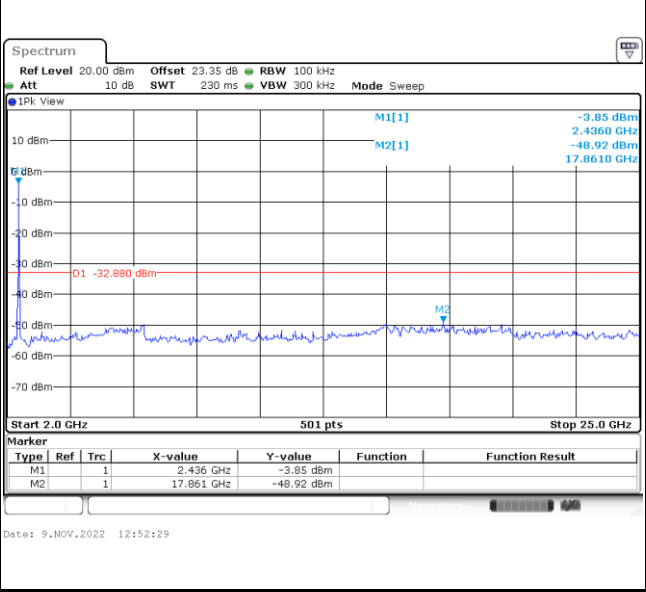
<b>100kHz PSD reference Level</b>	<b>Channel Plot</b>
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**Spurious Emission 30MHz~3GHz**

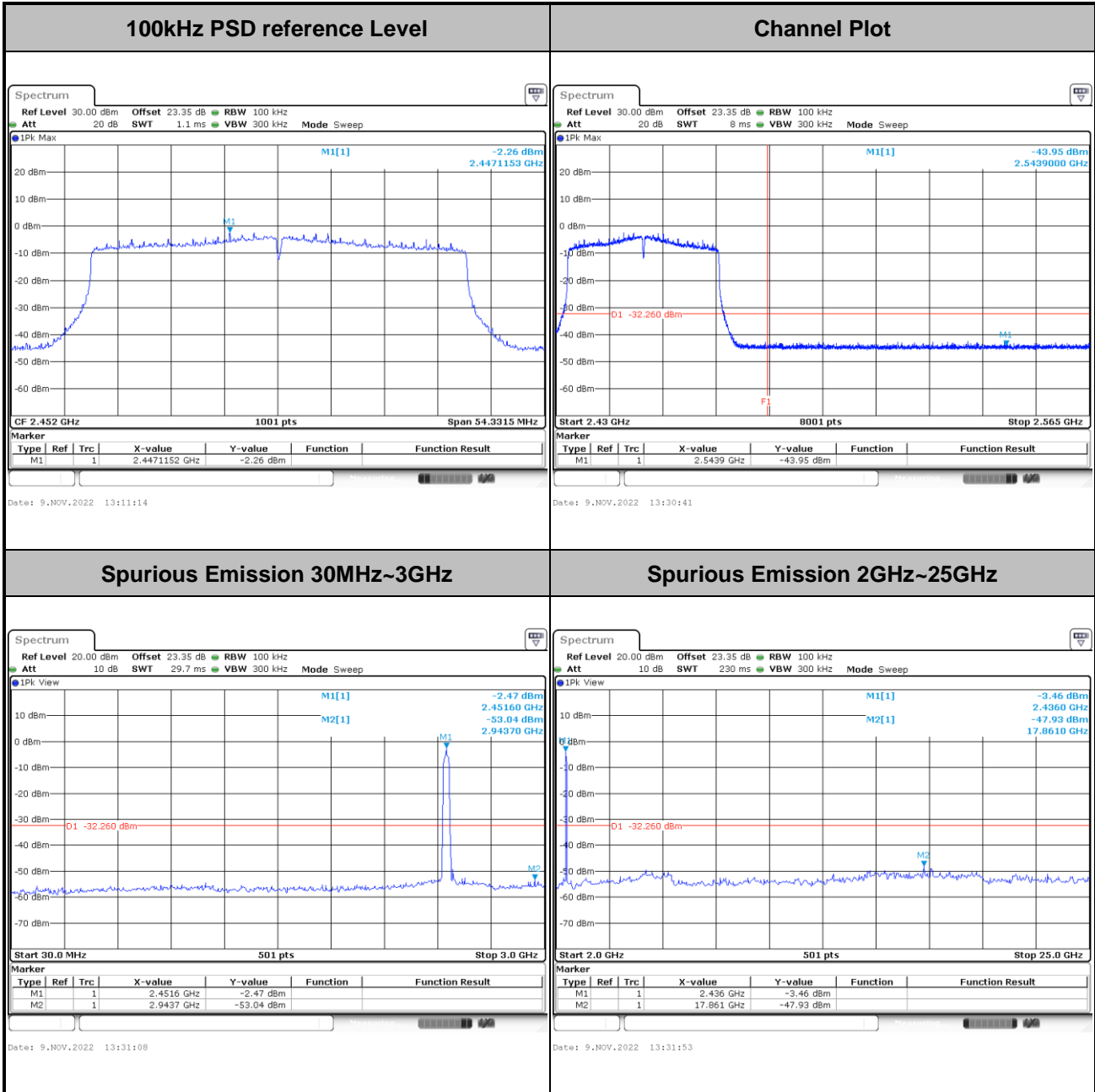


**Spurious Emission 2GHz~25GHz**





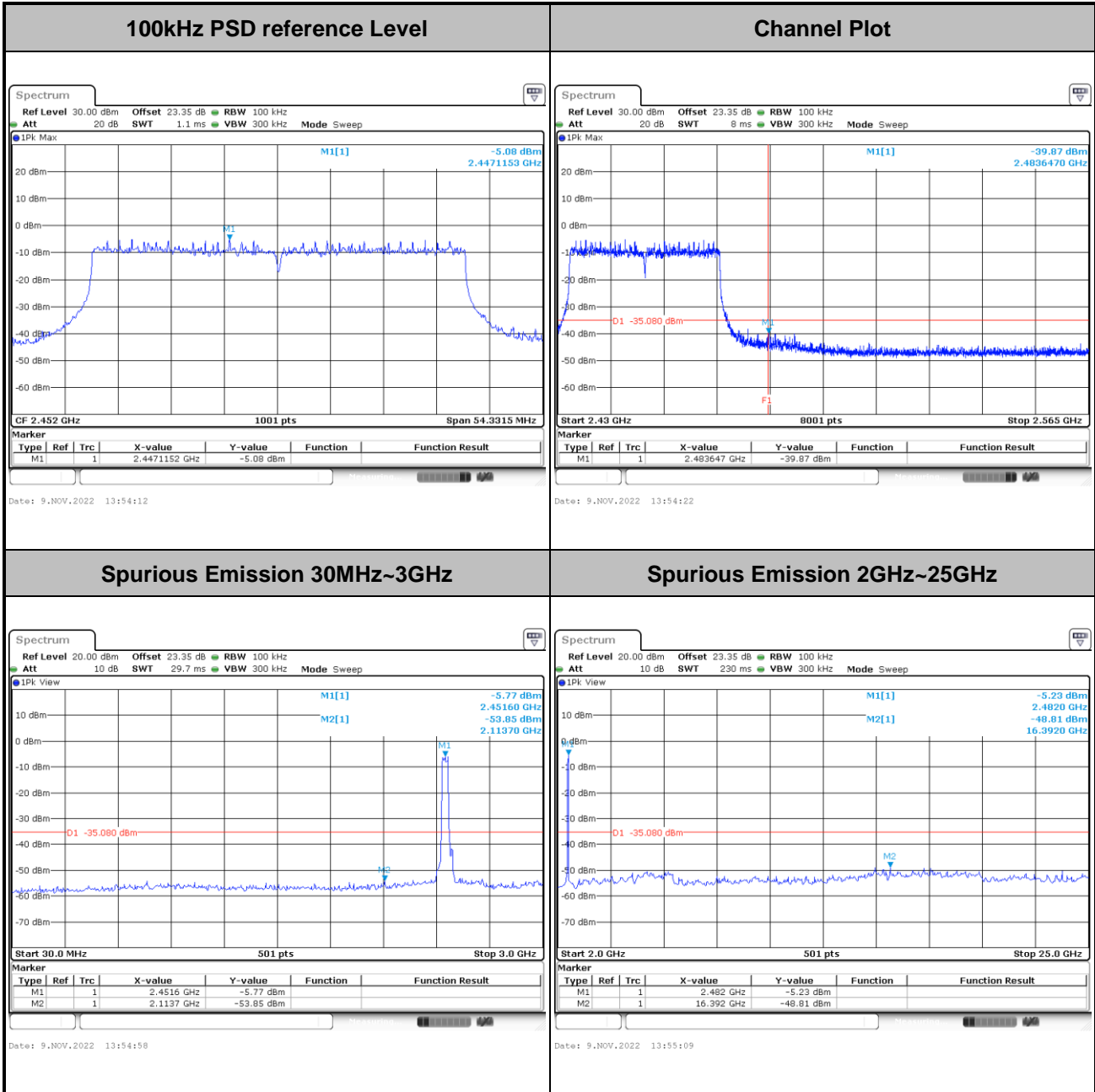
Test Mode :	802.11ax HE40	Test Channel :	09 Full RU
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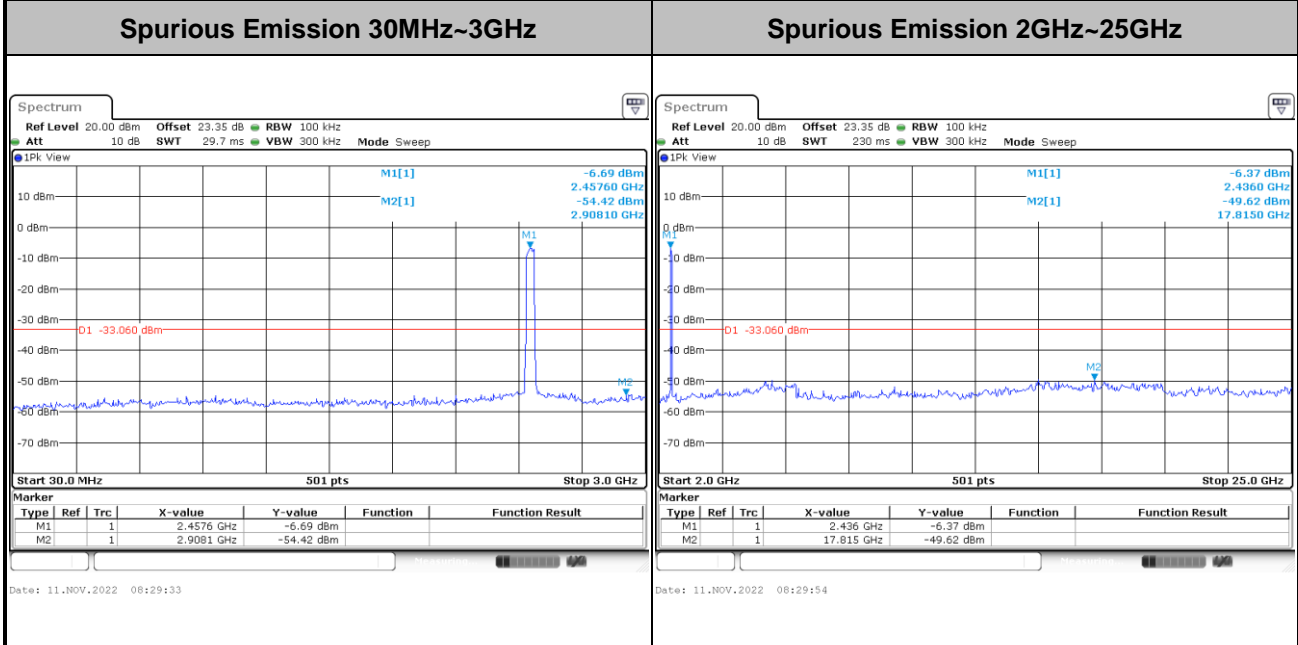
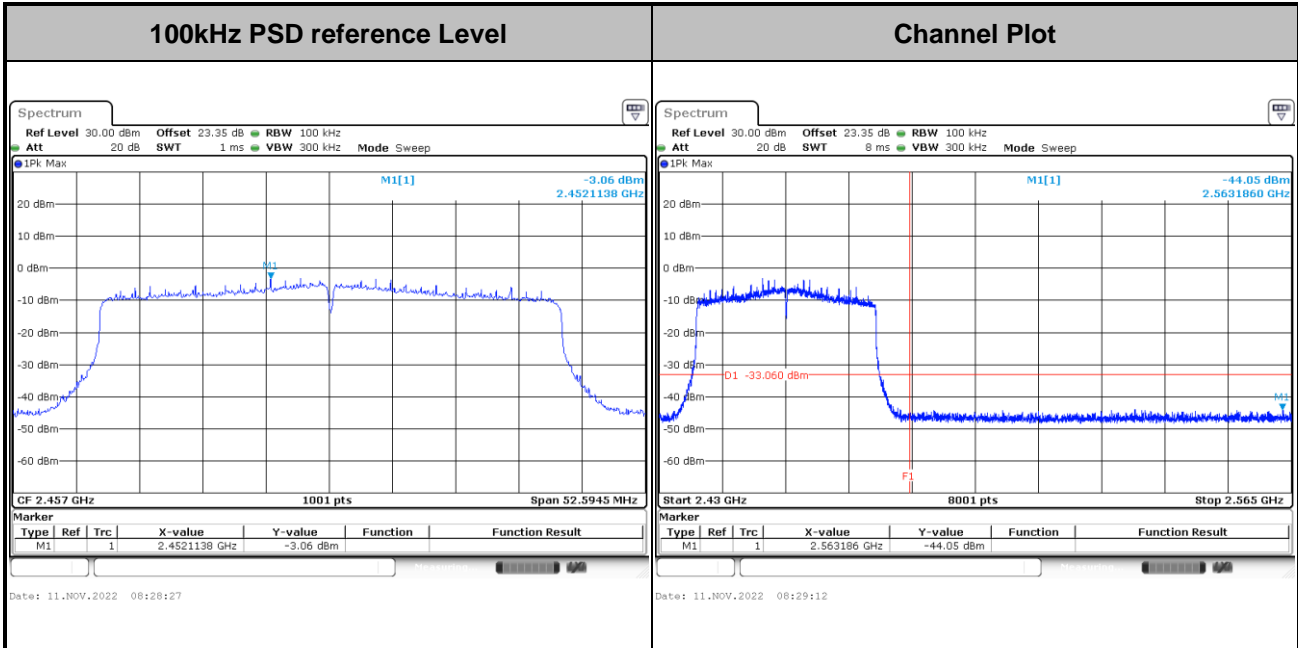


Test Mode :	802.11ax HE40	Test Channel :	09 Partial RU 484/65
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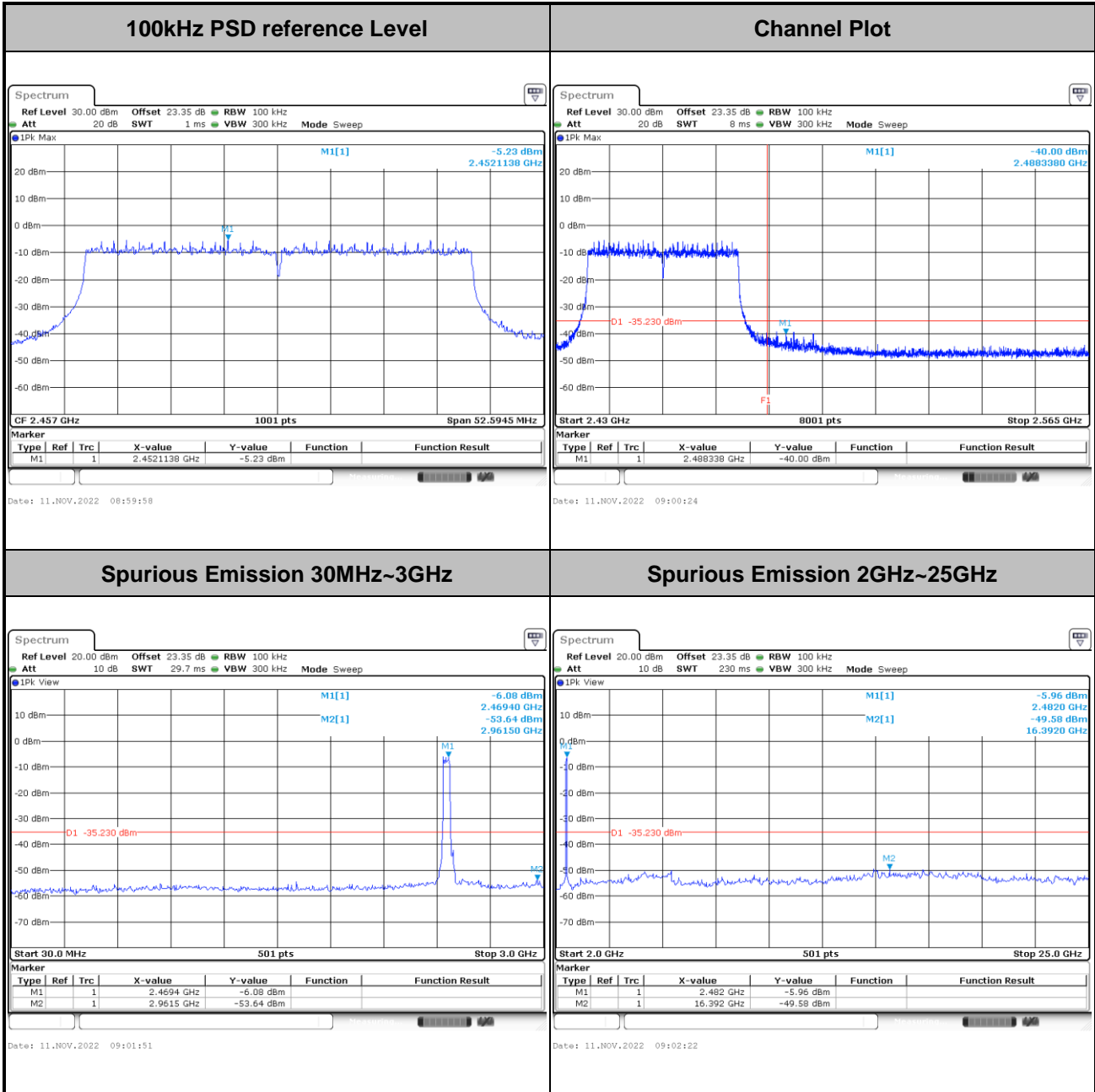


Test Mode :	802.11ax HE40	Test Channel :	10 Full RU
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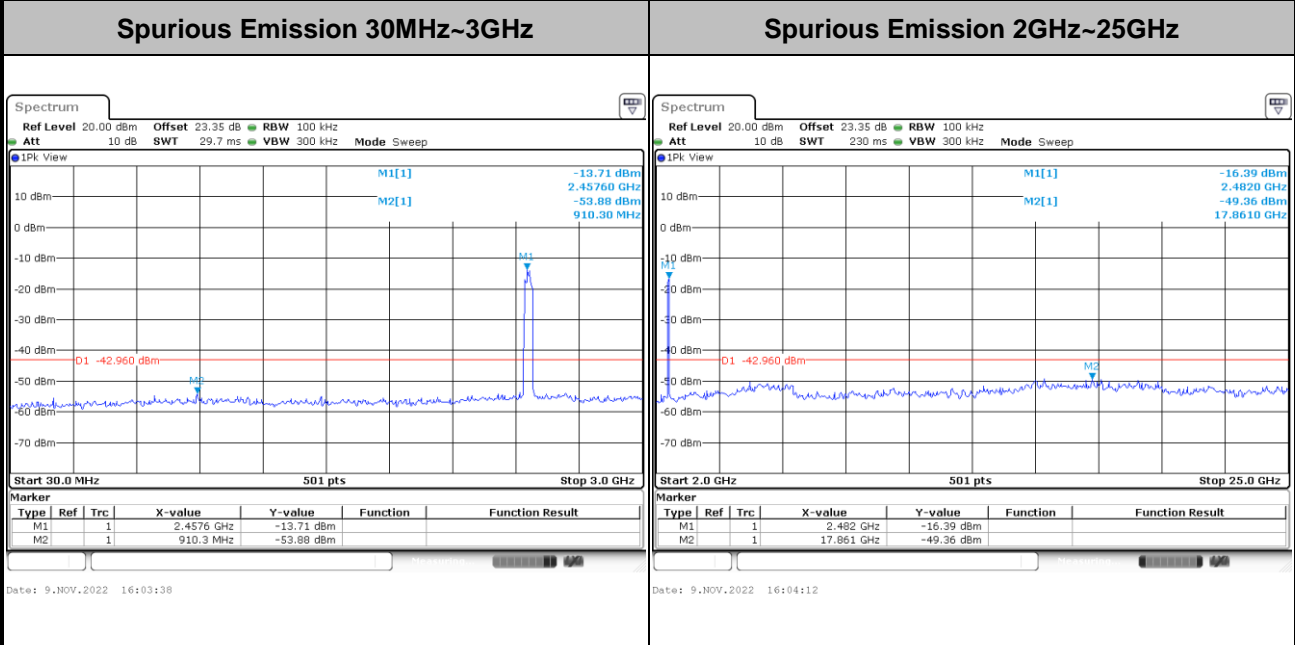
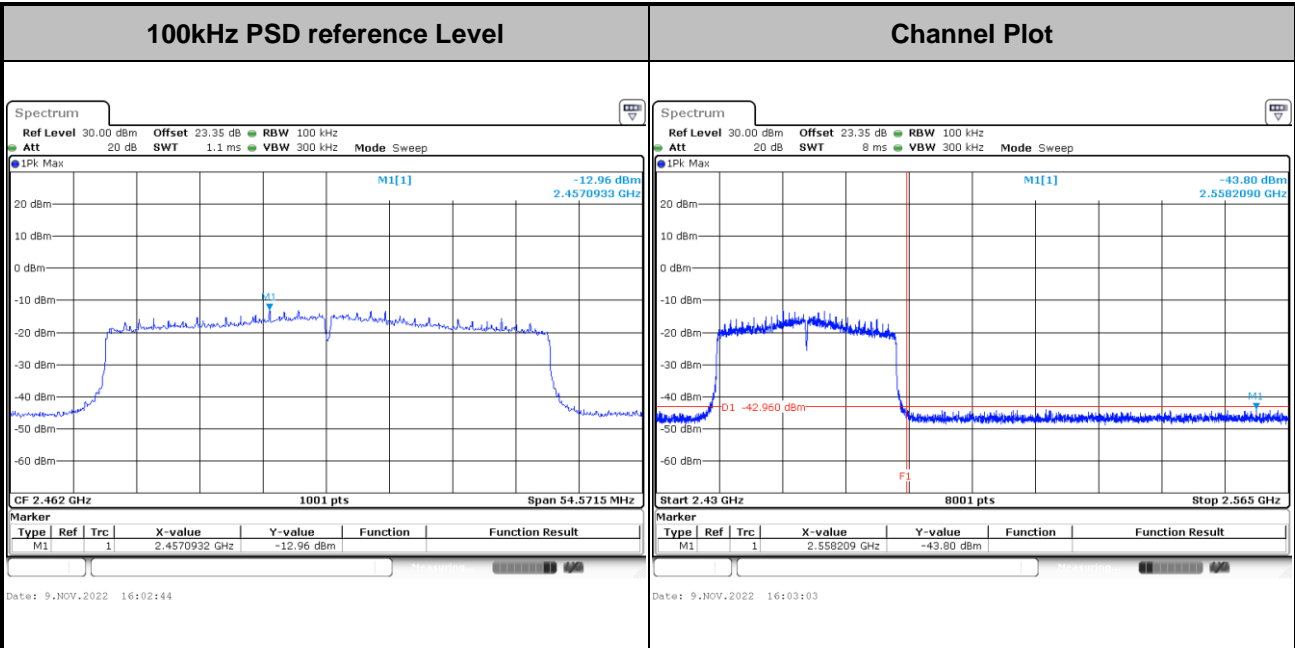


Test Mode :	802.11ax HE40	Test Channel :	10 Partial RU 484/65
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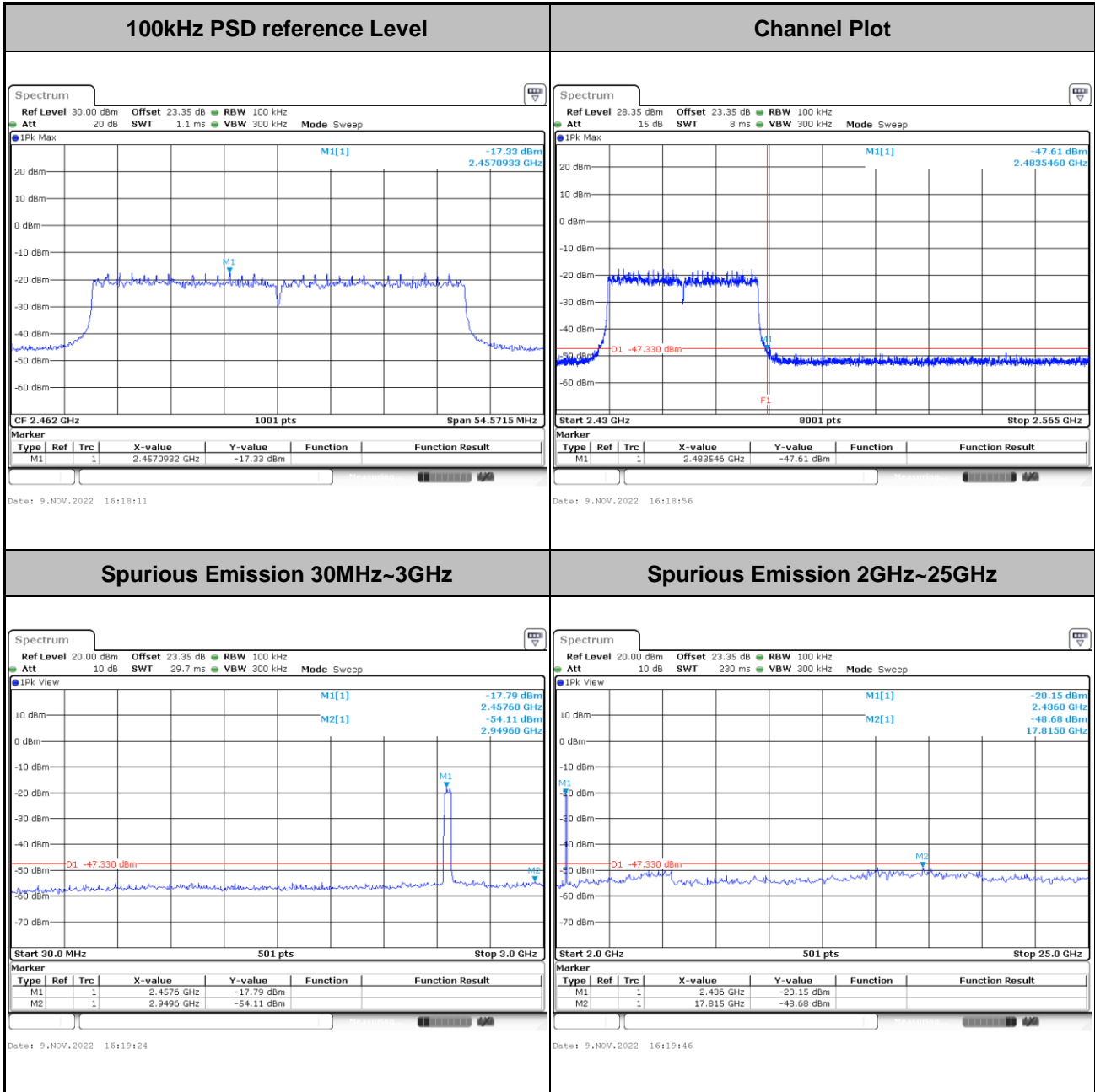


Test Mode :	802.11ax HE40	Test Channel :	11 Full RU
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Test Mode :	802.11ax HE40	Test Channel :	11 Partial RU 484/65
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### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is 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

Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.2 Antenna-port conducted measurements.
2. Measure the conducted output power (in dBm) using the peak detector.
3. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP.
4. Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
5. Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \sqrt{EIRP - 20 \log d + 104.8}$$

where

E is the electric field strength in dBμV/m

EIRP is the equivalent isotropically radiated power in dBm

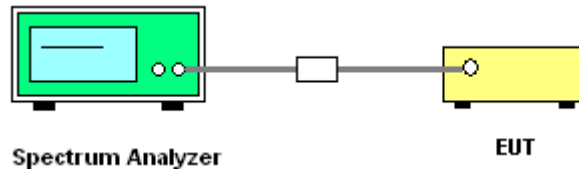
d is the specified measurement distance in 3m



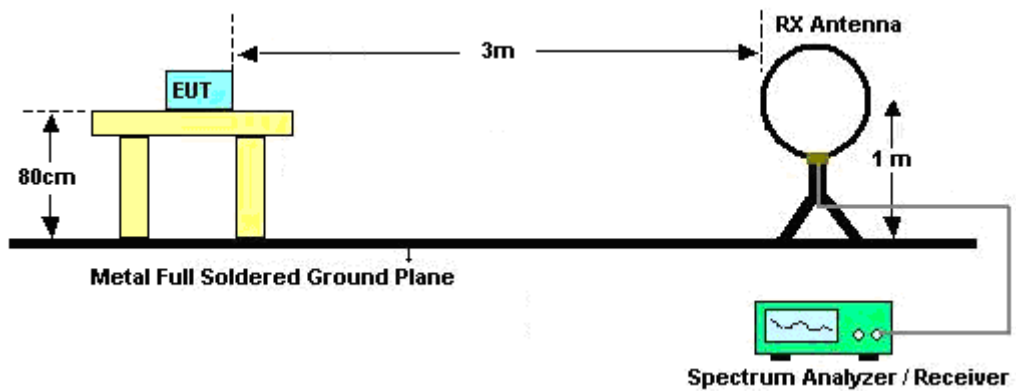
6. Compare the resultant electric field strength level with the applicable regulatory limit.
7. Corrected Reading for conducted spurious emission: Antenna Gain + Path Loss + MIMO Factor + Read Level = Level
8. Perform the cabinet radiated spurious emission test and verify radiated spurious emission with Antenna B and C
9. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
10. The EUT is 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.
11. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
12. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
13. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
14. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
15. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
16. 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,  $VBW = 3$  MHz 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

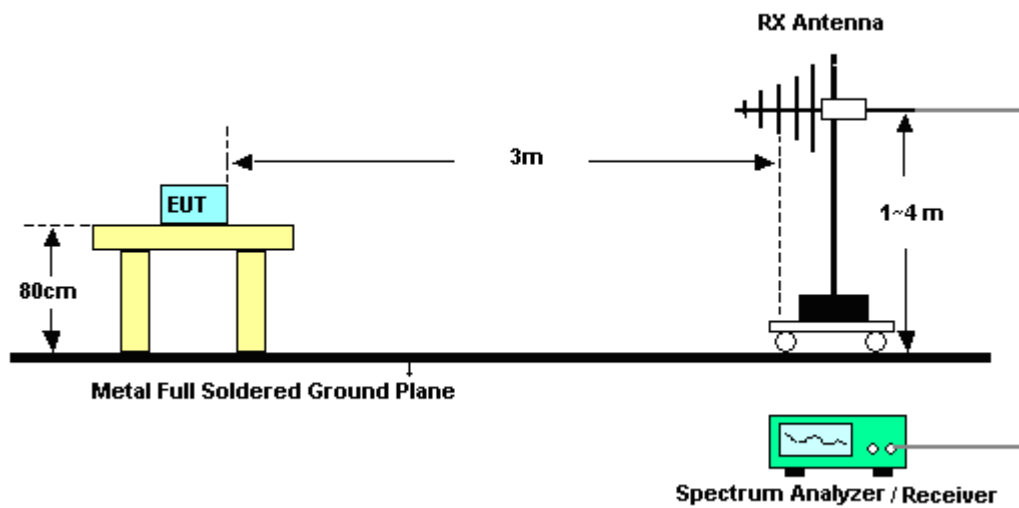
For Conducted Measurement Setup:



For radiated emissions below 30MHz

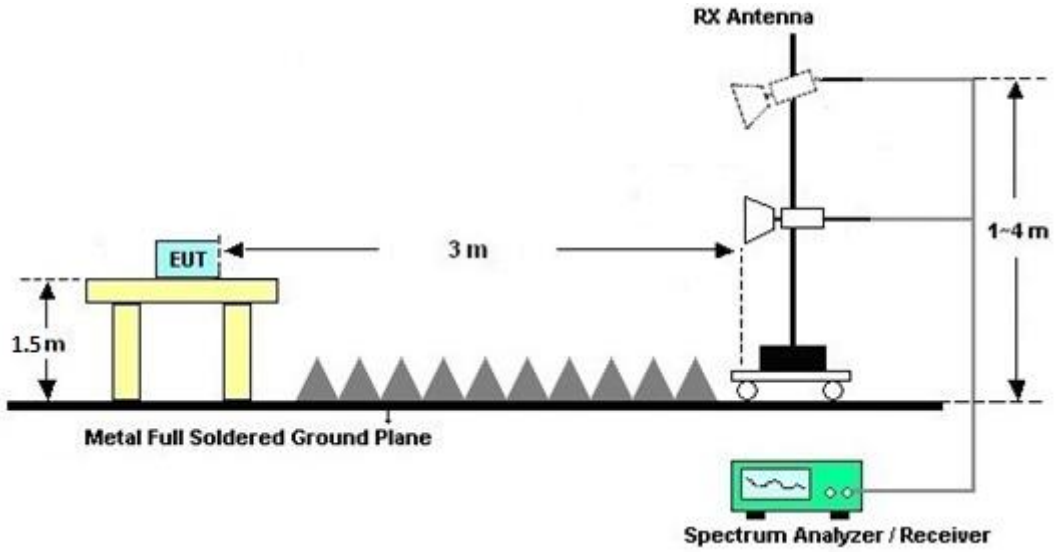


For radiated emissions from 30MHz to 1GHz

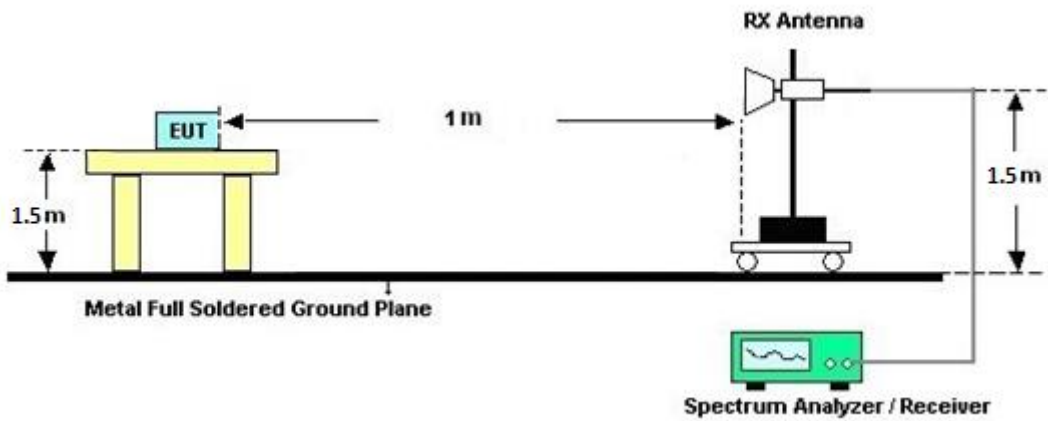




For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

**3.5.6 Test Result of Conduced Spurious at Band Edges in the Restricted Band**

Please refer to Appendix B and C.

**3.5.7 Test Result of Conduced Spurious Emission in the Restricted Band**

Please refer to Appendix B and C.

**3.5.8 Test Result of Cabinet Radiated Spurious at Band Edges**

Please refer to Appendix D and E.

**3.5.9 Test Result of Cabinet Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix D and E.

**3.5.10 Test Result of Radiated Spurious Emissions at Band Edge**

The unwanted emission of 802.11ax HE20 CH13 and 802.11ax HE40 CH11 was tested by radiated measurement, please refer appendix F and G.

**3.5.11 Duty Cycle**

Please refer to Appendix H.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

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.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Mar. 18, 2022	Oct. 08, 2022~ Oct. 31, 2022	Mar. 17, 2023	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Oct. 08, 2022~ Oct. 31, 2022	Feb. 05, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Oct. 08, 2022~ Oct. 31, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Oct. 08, 2022~ Oct. 31, 2022	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Nov. 30, 2021	Oct. 08, 2022~ Oct. 31, 2022	Nov. 29, 2022	Radiation (03CH15-HY)
Amplifier	E MEC	EM1G18G	060837	1GHz~18GHz	Sep. 01, 2022	Oct. 08, 2022~ Oct. 31, 2022	Aug. 31, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Dec. 16, 2021	Oct. 08, 2022~ Oct. 31, 2022	Dec. 15, 2022	Radiation (03CH15-HY)
Preamplifier	E MEC	EM18G40G	060802	18-40GHz	Mar. 08, 2022	Oct. 08, 2022~ Oct. 31, 2022	Mar. 07, 2023	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 21, 2021	Oct. 08, 2022~ Oct. 17, 2022	Oct. 20, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Oct. 18, 2022~ Oct. 31, 2022	Oct. 17, 2023	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010	MY54200485	10Hz~44GHz	May 07, 2022	Oct. 08, 2022~ Oct. 31, 2022	May 06, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 08, 2022~ Oct. 31, 2022	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 08, 2022~ Oct. 31, 2022	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Oct. 08, 2022~ Oct. 31, 2022	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 15, 2021	Oct. 08, 2022~ Oct. 31, 2022	Nov. 14, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	30MHz-40GHz	Jan. 04, 2022	Oct. 08, 2022~ Oct. 31, 2022	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Oct. 08, 2022~ Oct. 31, 2022	Mar. 09, 2023	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40	101565	10Hz~40GHz	Dec. 29, 2021	Aug. 23, 2022~ Nov. 05, 2022	Dec. 28, 2022	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Aug. 23, 2022~ Nov. 05, 2022	Mar. 09, 2023	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Aug. 23, 2022~ Nov. 05, 2022	Dec. 09, 2022	CSE (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Aug. 23, 2022~ Nov. 05, 2022	Feb. 20, 2023	CSE (TH05-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 15, 2022	Aug. 23, 2022~ Nov. 05, 2022	Mar. 14, 2023	CSE (TH05-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN15	3GHz High Pass Filter	May 24, 2022	Aug. 23, 2022~ Nov. 05, 2022	May 23, 2023	CSE (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Aug. 25, 2022~ Nov. 11, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Aug. 25, 2022~ Nov. 11, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Aug. 25, 2022~ Nov. 11, 2022	Aug. 02, 2023	Conducted (TH05-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.30 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.20 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.40 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.20 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2022/08/25~2022/11/11	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant5	Ant4	Ant5	Ant4		
11b	1Mbps	2	1	2412	13.24	13.43	8.10	8.12	0.50	Pass
11b	1Mbps	2	6	2437	13.24	11.73	8.06	7.60	0.50	Pass
11b	1Mbps	2	11	2462	13.29	13.68	8.10	8.56	0.50	Pass
11b	1Mbps	2	12	2467	13.39	13.53	8.12	8.58	0.50	Pass
11b	1Mbps	2	13	2472	13.59	13.53	8.12	8.58	0.50	Pass
11g	6Mbps	2	1	2412	16.93	16.73	15.15	15.69	0.50	Pass
11g	6Mbps	2	2	2417	16.78	16.83	15.17	15.73	0.50	Pass
11g	6Mbps	2	6	2437	16.83	16.83	15.15	15.15	0.50	Pass
11g	6Mbps	2	10	2457	16.83	16.83	15.17	15.17	0.50	Pass
11g	6Mbps	2	11	2462	16.78	16.83	15.15	15.33	0.50	Pass
11g	6Mbps	2	12	2467	16.78	16.83	15.15	15.73	0.50	Pass
11g	6Mbps	2	13	2472	16.98	17.03	15.17	15.15	0.50	Pass



**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant4	SUM	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	Ant5	Ant4	
11b	1Mbps	2	1	2412	18.65	18.65	21.66	29.46		6.54		28.20		36.00	Pass	
11b	1Mbps	2	6	2437	19.95	19.95	22.96	29.46		6.54		29.50		36.00	Pass	
11b	1Mbps	2	11	2462	19.55	19.75	22.66	29.46		6.54		29.20		36.00	Pass	
11b	1Mbps	2	12	2467	17.55	17.55	20.56	29.46		6.54		27.10		36.00	Pass	
11b	1Mbps	2	13	2472	10.55	10.55	13.56	29.46		6.54		20.10		36.00	Pass	
11g	6Mbps	2	1	2412	12.55	12.75	15.66	29.46		6.54		22.20		36.00	Pass	
11g	6Mbps	2	2	2417	12.65	12.75	15.71	29.46		6.54		22.25		36.00	Pass	
11g	6Mbps	2	3	2422	13.85	13.85	16.86	29.46		6.54		23.40		36.00	Pass	
11g	6Mbps	2	6	2437	16.65	16.95	19.81	29.46		6.54		26.35		36.00	Pass	
11g	6Mbps	2	10	2457	14.05	13.85	16.96	29.46		6.54		23.50		36.00	Pass	
11g	6Mbps	2	11	2462	13.75	13.65	16.71	29.46		6.54		23.25		36.00	Pass	
11g	6Mbps	2	12	2467	12.95	13.05	16.01	29.46		6.54		22.55		36.00	Pass	
11g	6Mbps	2	13	2472	-0.95	-0.65	2.21	29.46		6.54		8.75		36.00	Pass	
HT20	MCS0	2	1	2412	11.25	11.35	14.31	29.46		6.54		20.85		36.00	Pass	
HT20	MCS0	2	2	2417	12.25	12.55	15.41	29.46		6.54		21.95		36.00	Pass	
HT20	MCS0	2	3	2422	12.75	13.15	15.96	29.46		6.54		22.51		36.00	Pass	
HT20	MCS0	2	6	2437	15.55	15.95	18.76	29.46		6.54		25.31		36.00	Pass	
HT20	MCS0	2	10	2457	13.15	13.05	16.11	29.46		6.54		22.65		36.00	Pass	
HT20	MCS0	2	11	2462	11.65	11.55	14.61	29.46		6.54		21.15		36.00	Pass	
HT20	MCS0	2	12	2467	11.35	11.55	14.46	29.46		6.54		21.00		36.00	Pass	
HT20	MCS0	2	13	2472	-4.65	-4.25	-1.44	29.46		6.54		5.11		36.00	Pass	
HT40	MCS0	2	3	2422	11.05	10.85	13.96	29.46		6.54		20.50		36.00	Pass	
HT40	MCS0	2	6	2437	11.85	11.85	14.86	29.46		6.54		21.40		36.00	Pass	
HT40	MCS0	2	9	2452	10.35	10.35	13.36	29.46		6.54		19.90		36.00	Pass	
HT40	MCS0	2	10	2457	9.85	9.75	12.81	29.46		6.54		19.35		36.00	Pass	
HT40	MCS0	2	11	2462	-1.45	-0.75	1.92	29.46		6.54		8.46		36.00	Pass	
VHT20	MCS0	2	1	2412	11.35	11.45	14.41	29.46		6.54		20.95		36.00	Pass	
VHT20	MCS0	2	2	2417	12.35	12.65	15.51	29.46		6.54		22.05		36.00	Pass	
VHT20	MCS0	2	3	2422	12.85	13.25	16.06	29.46		6.54		22.61		36.00	Pass	
VHT20	MCS0	2	6	2437	15.75	16.05	18.91	29.46		6.54		25.45		36.00	Pass	
VHT20	MCS0	2	10	2457	13.25	13.15	16.21	29.46		6.54		22.75		36.00	Pass	
VHT20	MCS0	2	11	2462	11.75	11.65	14.71	29.46		6.54		21.25		36.00	Pass	
VHT20	MCS0	2	12	2467	11.55	11.65	14.61	29.46		6.54		21.15		36.00	Pass	
VHT20	MCS0	2	13	2472	-4.55	-4.15	-1.34	29.46		6.54		5.21		36.00	Pass	
VHT40	MCS0	2	3	2422	11.15	10.95	14.06	29.46		6.54		20.60		36.00	Pass	
VHT40	MCS0	2	6	2437	11.95	11.95	14.96	29.46		6.54		21.50		36.00	Pass	
VHT40	MCS0	2	9	2452	10.45	10.45	13.46	29.46		6.54		20.00		36.00	Pass	
VHT40	MCS0	2	10	2457	9.95	9.85	12.91	29.46		6.54		19.45		36.00	Pass	
VHT40	MCS0	2	11	2462	-1.25	-0.65	2.07	29.46		6.54		8.61		36.00	Pass	

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

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant5	Ant4	Worse + 3.01	Ant5	Ant4	Ant5	Ant4	
11b	1Mbps	2	1	2412	-4.93	-5.58	-1.92	6.54		7.46		Pass
11b	1Mbps	2	6	2437	-2.66	-3.36	0.35	6.54		7.46		Pass
11b	1Mbps	2	11	2462	-3.79	-3.80	-0.78	6.54		7.46		Pass
11b	1Mbps	2	12	2467	-6.60	-6.87	-3.59	6.54		7.46		Pass
11b	1Mbps	2	13	2472	-14.04	-14.10	-11.03	6.54		7.46		Pass
11g	6Mbps	2	1	2412	-12.49	-12.21	-9.20	6.54		7.46		Pass
11g	6Mbps	2	2	2417	-12.36	-12.29	-9.28	6.54		7.46		Pass
11g	6Mbps	2	6	2437	-8.56	-8.83	-5.55	6.54		7.46		Pass
11g	6Mbps	2	10	2457	-11.72	-11.58	-8.57	6.54		7.46		Pass
11g	6Mbps	2	11	2462	-11.14	-11.56	-8.13	6.54		7.46		Pass
11g	6Mbps	2	12	2467	-12.47	-11.98	-8.97	6.54		7.46		Pass
11g	6Mbps	2	13	2472	-26.43	-25.96	-22.95	6.54		7.46		Pass

Measured power density (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)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant5	Ant4	Ant5	Ant4		
HE20	MCS0	2	1	2412	Full	19.23	19.13	16.32	16.89	0.50	Pass
HE20	MCS0	2	1	2412	26/0	19.88	19.08	2.14	2.12	0.50	Pass
HE20	MCS0	2	1	2412	52/37	19.58	18.93	17.14	5.84	0.50	Pass
HE20	MCS0	2	1	2412	106/53	19.03	19.18	17.19	18.12	0.50	Pass
HE20	MCS0	2	1	2412	242/61	19.73	19.83	19.12	19.01	0.50	Pass
HE20	MCS0	2	2	2417	Full	19.08	19.18	15.19	16.57	0.50	Pass
HE20	MCS0	2	2	2417	26/0	19.88	19.73	2.12	2.14	0.50	Pass
HE20	MCS0	2	2	2417	52/37	19.38	19.28	18.86	17.14	0.50	Pass
HE20	MCS0	2	2	2417	106/53	19.38	19.03	17.19	18.14	0.50	Pass
HE20	MCS0	2	2	2417	242/61	19.88	19.88	19.12	19.12	0.50	Pass
HE20	MCS0	2	3	2422	Full	19.08	19.08	15.17	15.17	0.50	Pass
HE20	MCS0	2	6	2437	Full	19.13	19.18	16.09	18.19	0.50	Pass
HE20	MCS0	2	6	2437	26/4	17.88	17.63	2.70	2.72	0.50	Pass
HE20	MCS0	2	6	2437	52/39	17.78	17.58	15.14	15.72	0.50	Pass
HE20	MCS0	2	6	2437	106/53	19.28	19.23	18.14	17.77	0.50	Pass
HE20	MCS0	2	6	2437	242/61	20.17	20.32	19.14	19.09	0.50	Pass
HE20	MCS0	2	10	2457	Full	19.13	19.13	15.14	15.14	0.50	Pass
HE20	MCS0	2	10	2457	26/8	19.48	19.38	2.18	2.16	0.50	Pass
HE20	MCS0	2	10	2457	52/40	19.08	18.88	17.07	17.07	0.50	Pass
HE20	MCS0	2	10	2457	106/54	18.98	19.08	17.19	17.19	0.50	Pass
HE20	MCS0	2	10	2457	242/61	19.93	19.78	19.12	19.14	0.50	Pass
HE20	MCS0	2	11	2462	Full	19.08	19.13	15.17	15.19	0.50	Pass
HE20	MCS0	2	11	2462	26/8	19.33	18.98	2.13	2.10	0.50	Pass
HE20	MCS0	2	11	2462	52/40	19.18	18.98	4.51	17.07	0.50	Pass
HE20	MCS0	2	11	2462	106/54	18.88	18.93	17.19	17.22	0.50	Pass
HE20	MCS0	2	11	2462	242/61	19.88	19.98	19.12	17.14	0.50	Pass
HE20	MCS0	2	12	2467	Full	19.08	19.08	15.17	15.17	0.50	Pass
HE20	MCS0	2	12	2467	26/8	19.63	19.08	2.13	2.13	0.50	Pass
HE20	MCS0	2	12	2467	52/40	19.08	18.63	17.09	4.63	0.50	Pass
HE20	MCS0	2	12	2467	106/54	18.93	18.93	17.17	17.19	0.50	Pass
HE20	MCS0	2	12	2467	242/61	19.88	19.93	19.09	19.14	0.50	Pass
HE20	MCS0	2	13	2472	Full	19.28	19.28	15.17	16.29	0.50	Pass
HE20	MCS0	2	13	2472	26/8	19.98	19.83	2.08	2.08	0.50	Pass
HE20	MCS0	2	13	2472	52/40	20.02	19.83	17.04	17.06	0.50	Pass
HE20	MCS0	2	13	2472	106/54	20.37	20.52	17.22	17.22	0.50	Pass
HE20	MCS0	2	13	2472	242/61	19.98	20.12	19.12	19.12	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.66	37.66	35.70	35.76	0.50	Pass
HE40	MCS0	2	3	2422	484/65	38.46	38.46	38.22	38.22	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.66	37.76	35.86	35.70	0.50	Pass
HE40	MCS0	2	6	2437	484/65	38.46	38.96	38.18	38.26	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.66	37.76	36.38	36.22	0.50	Pass
HE40	MCS0	2	9	2452	484/65	38.66	38.46	38.22	38.20	0.50	Pass
HE40	MCS0	2	10	2457	Full	37.76	37.66	36.14	35.06	0.50	Pass
HE40	MCS0	2	10	2457	484/65	38.66	38.56	38.18	38.22	0.50	Pass
HE40	MCS0	2	11	2462	Full	37.96	37.86	37.66	36.38	0.50	Pass
HE40	MCS0	2	11	2462	484/65	38.86	38.86	38.22	38.18	0.50	Pass