



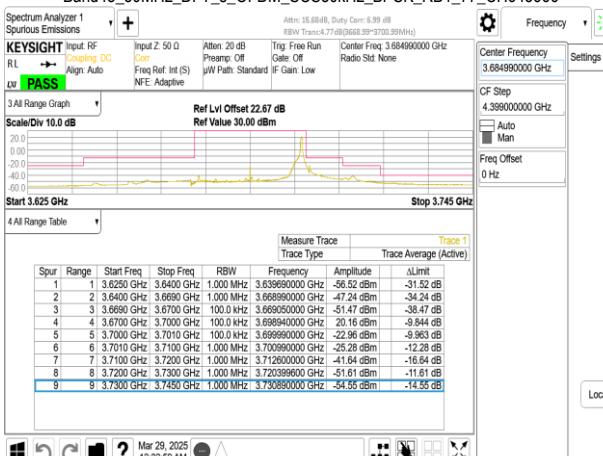
Band48_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB75_0_CH641668



Band48_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH645666



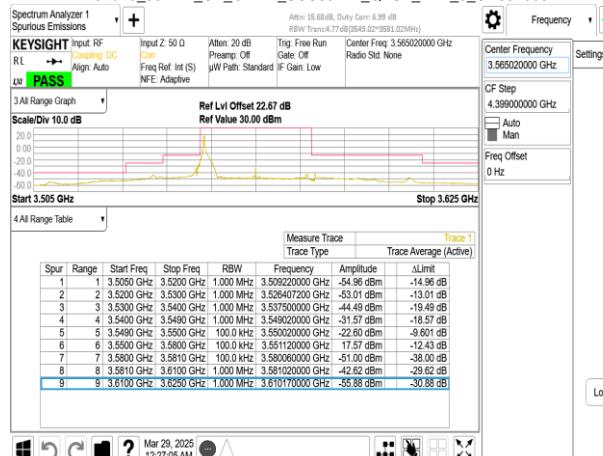
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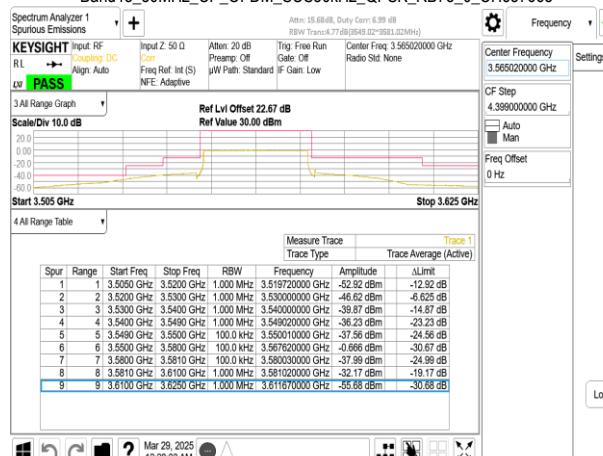
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Band48_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH637668



Band48_30MHz_CP_OFDM_SCS30kHz_QPSK_RB78_0_CH637668



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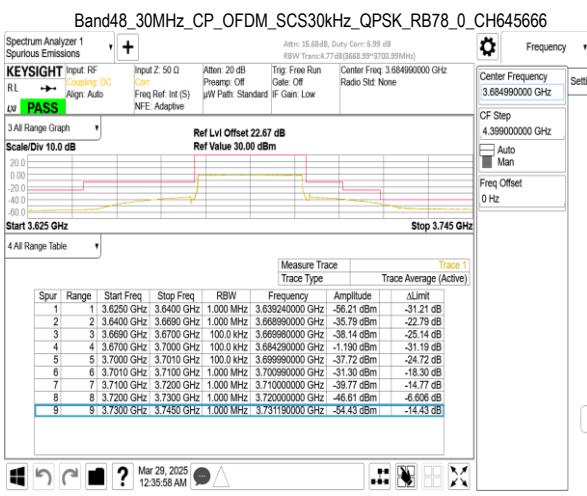
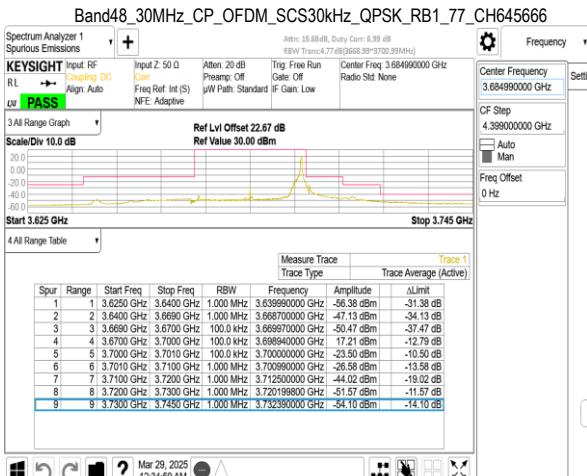
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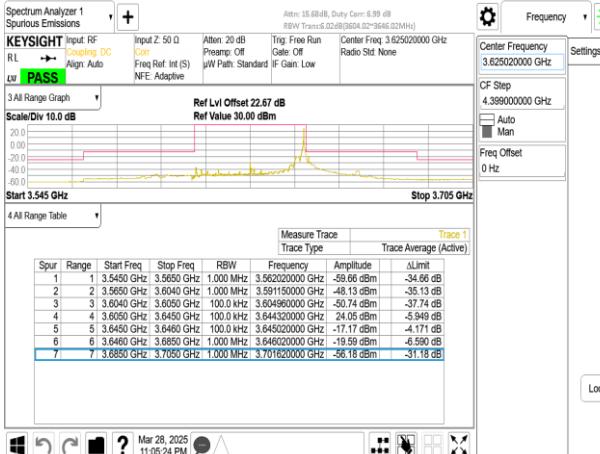
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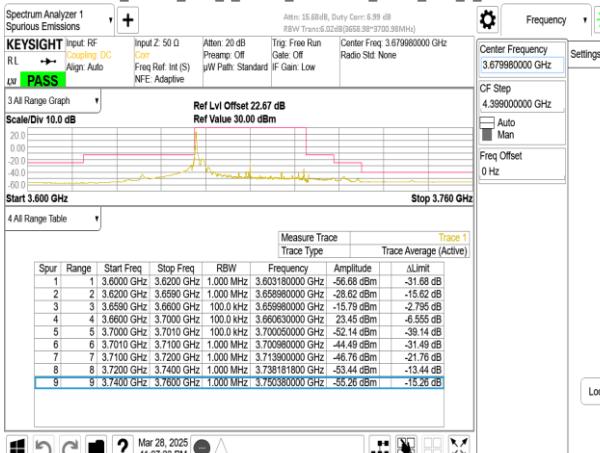
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Band48_40MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH645332



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Band48_40MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_0_CH645332



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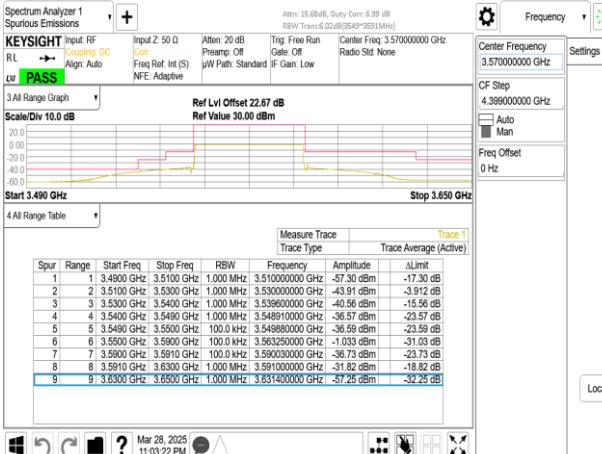
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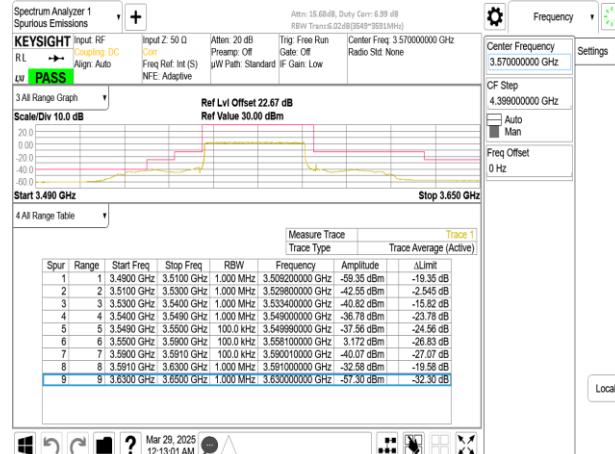


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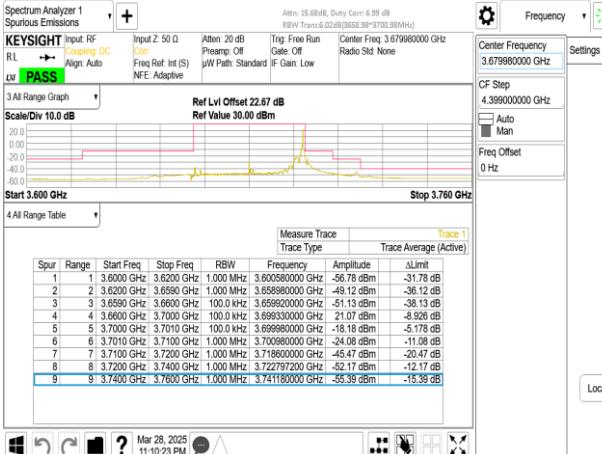


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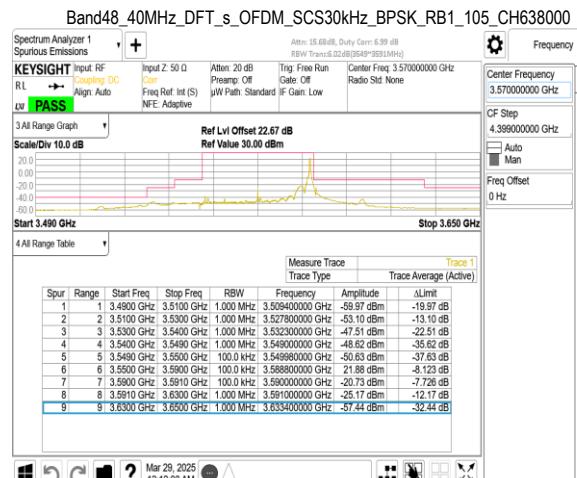
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Band48_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH645332



Band48_40MHz_CP_OFDM_SCS15kHz_QPSK_RB216_0_CH645332



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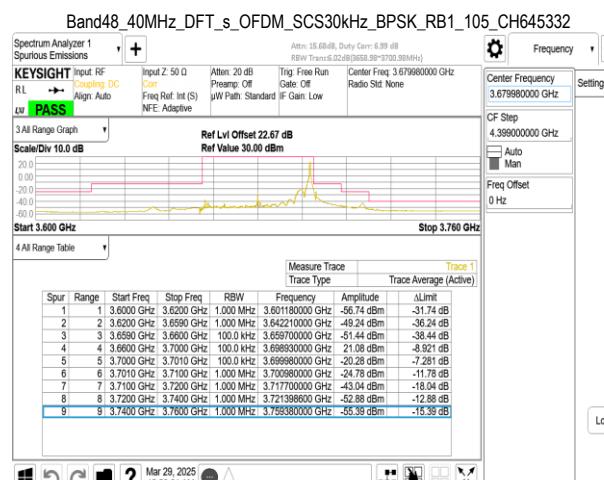
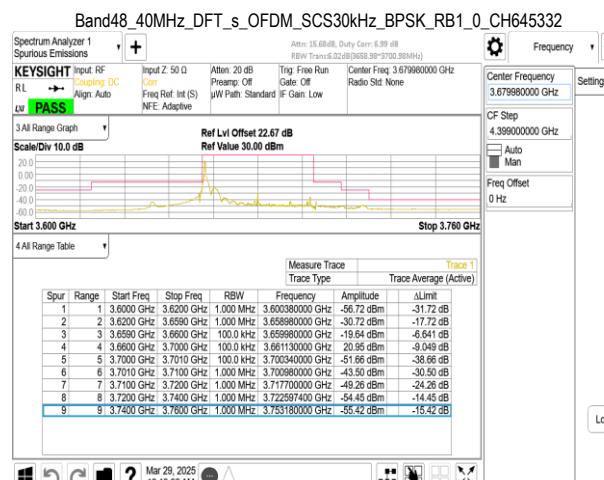
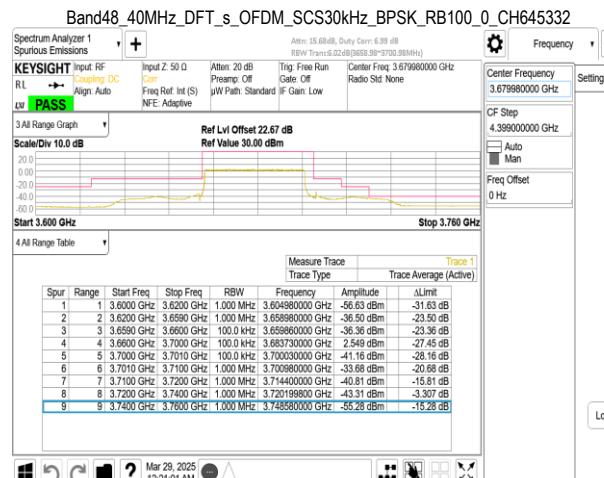
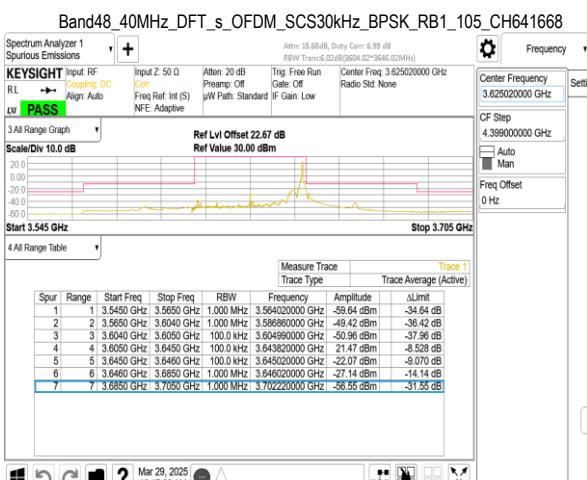
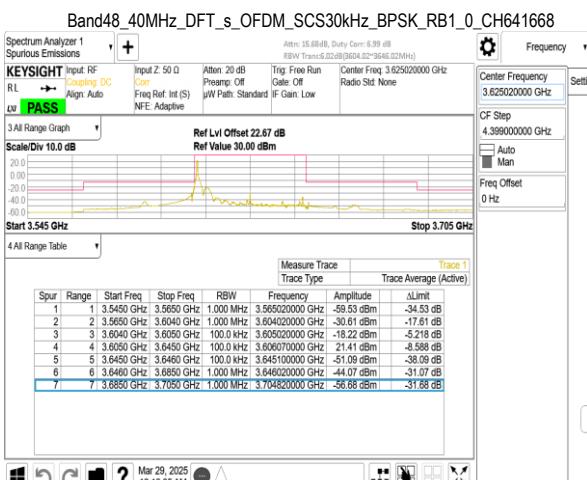
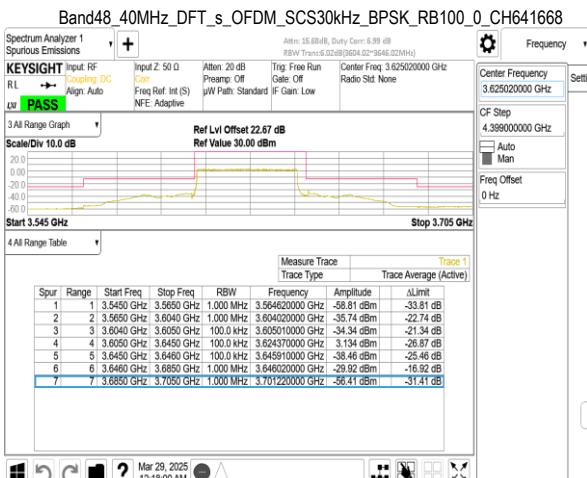
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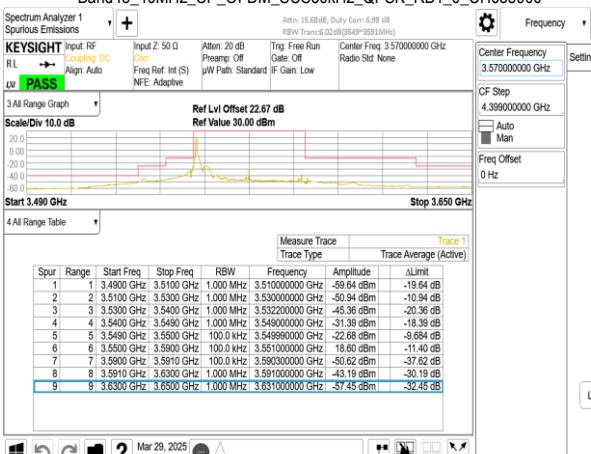
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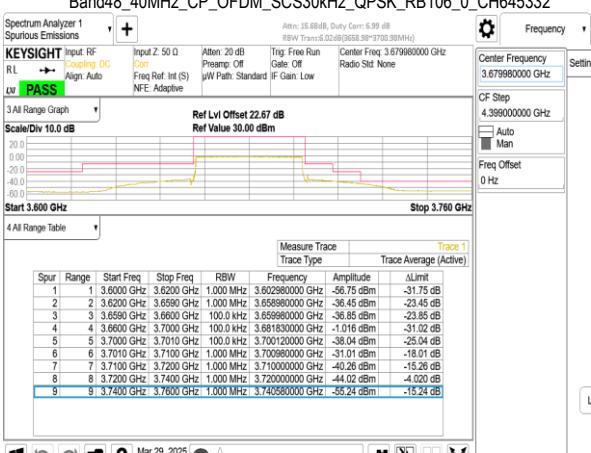
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Band48_40MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH638000



Band48_40MHz_CP_OFDM_SCS30kHz_QPSK_RB106_0_CH645332



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

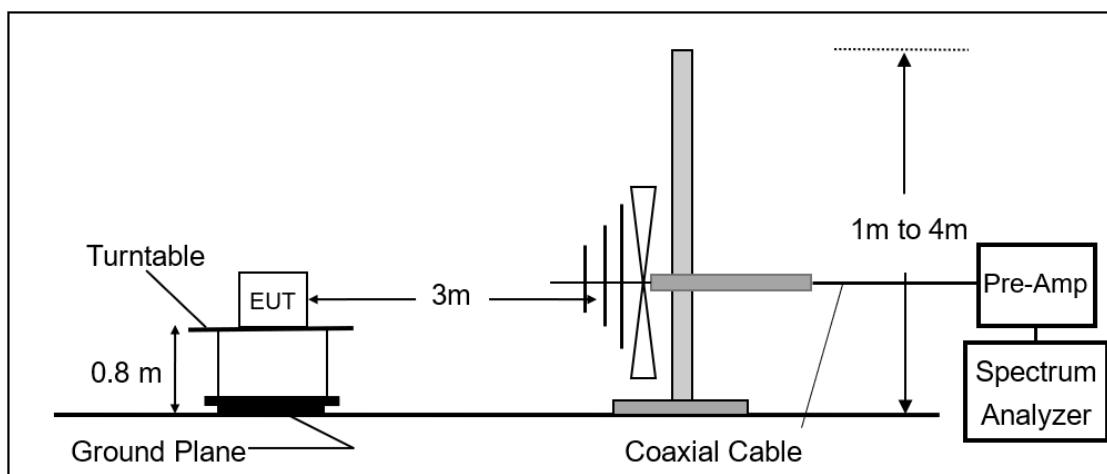
11.1 Standard Applicable

FCC Part 2.1053, Part 96.41 , C63.26 Clause 5.7

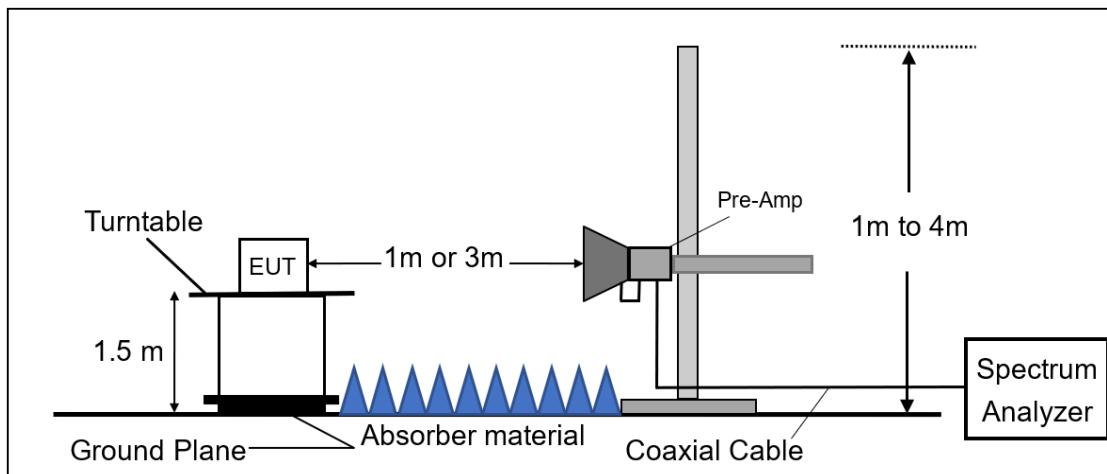
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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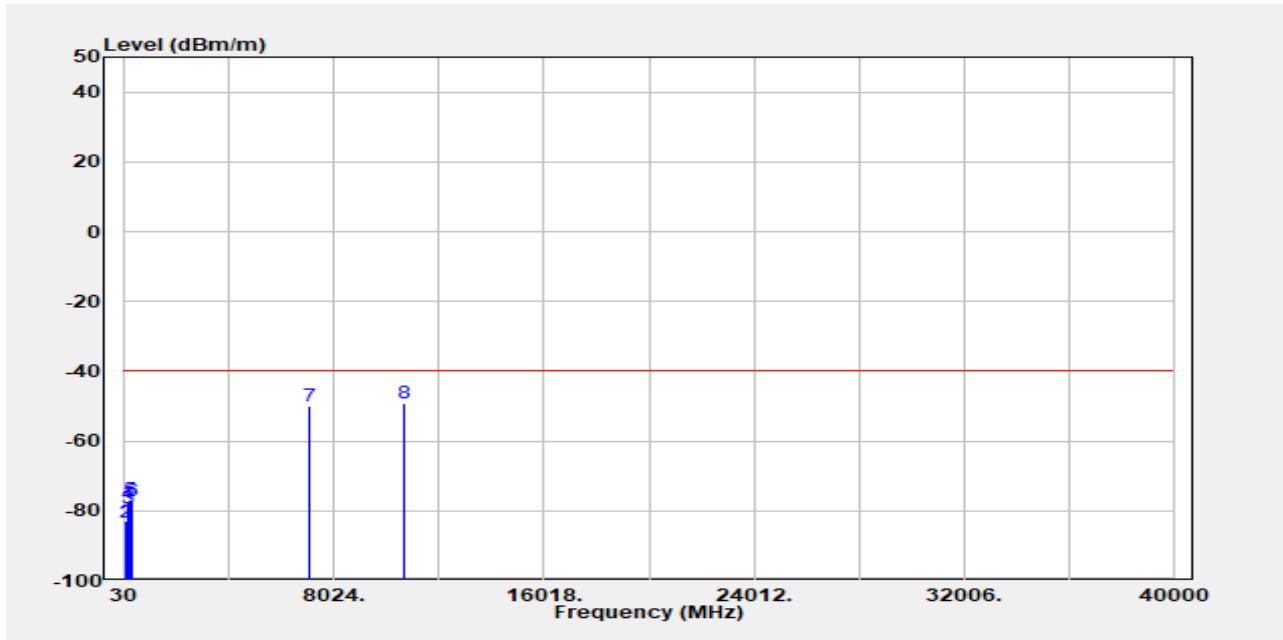
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11.4 Measurement Result:**Mode: LTE**

Report Number	:TERF2501000196ER	Test Site	:SAC 3
Operation Mode	:LTE B48_P96	Test Date	:2025-03-18
Test Mode	:Tx	Temp./Humi.	:19.3°C/46%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3552.5 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.42	-82.86	-69.47	-12.10	-1.29	-40.00	-42.86
80.49	-83.42	-78.87	-2.91	-1.64	-40.00	-43.42
136.81	-79.39	-75.55	-1.70	-2.14	-40.00	-39.39
179.53	-78.05	-76.77	1.17	-2.45	-40.00	-38.05
231.96	-76.98	-78.63	4.43	-2.78	-40.00	-36.98
280.51	-77.11	-77.77	3.72	-3.06	-40.00	-37.11
7105.00	-50.07	-45.17	11.10	-15.99	-40.00	-10.07
10657.50	-49.07	-40.69	11.32	-19.69	-40.00	-9.07

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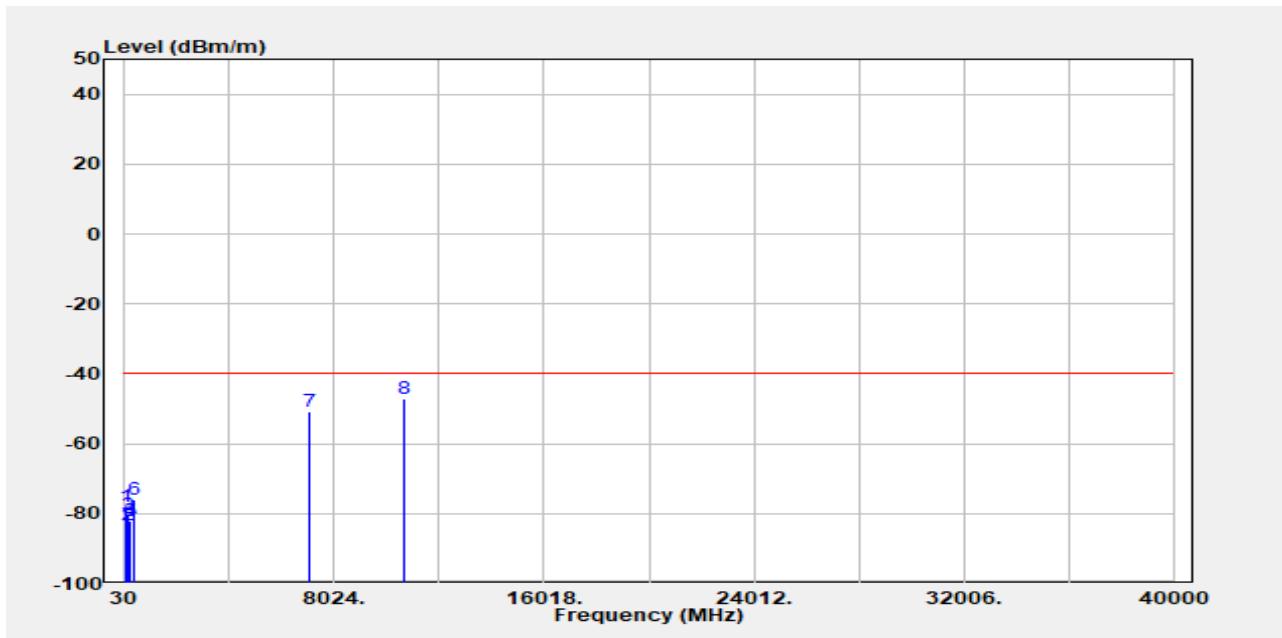
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :LTE B48_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3552.5 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.22	-78.14	-65.96	-10.80	-1.37	-40.00	-38.14
120.30	-83.14	-79.61	-1.52	-2.01	-40.00	-43.14
166.91	-80.31	-77.47	-0.47	-2.37	-40.00	-40.31
200.89	-81.96	-83.12	3.76	-2.60	-40.00	-41.96
264.00	-82.07	-83.26	4.17	-2.98	-40.00	-42.07
392.17	-76.17	-76.47	3.90	-3.61	-40.00	-36.17
7105.00	-50.80	-45.90	11.10	-15.99	-40.00	-10.80
10657.50	-47.16	-38.78	11.32	-19.69	-40.00	-7.16

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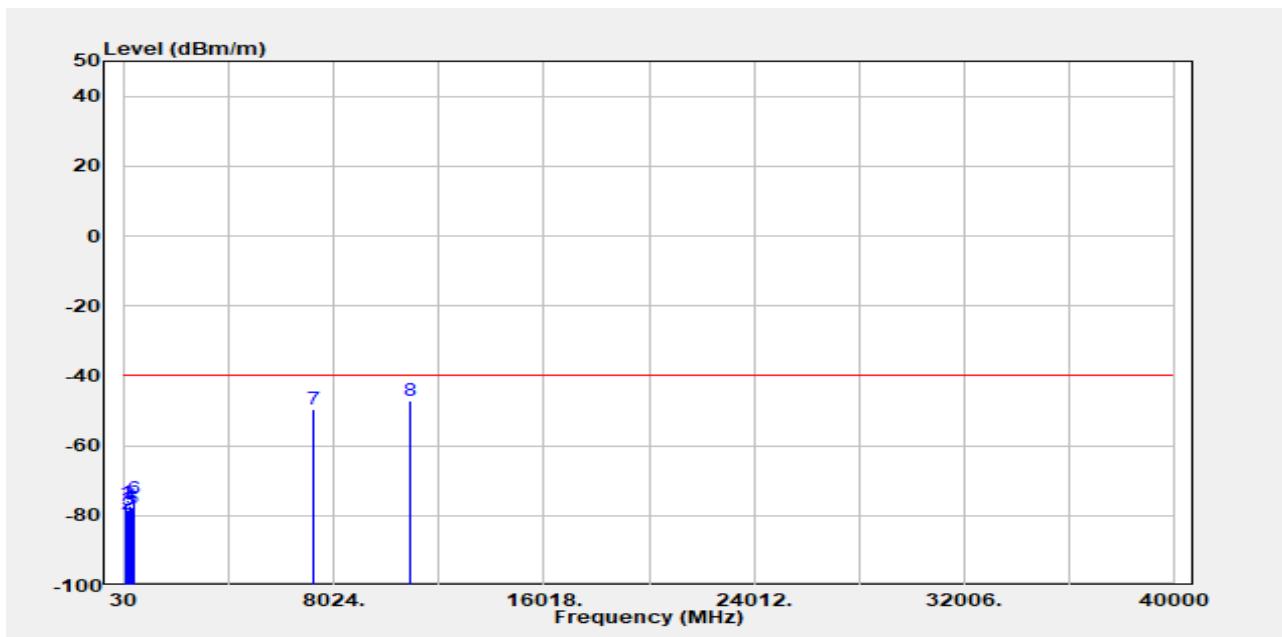
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :LTE B48_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3625 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
82.43	-76.36	-72.39	-2.31	-1.66	-40.00	-36.36
132.92	-79.49	-75.73	-1.65	-2.11	-40.00	-39.49
178.56	-78.62	-77.26	1.07	-2.44	-40.00	-38.62
230.99	-77.12	-78.91	4.57	-2.78	-40.00	-37.12
278.57	-78.05	-78.70	3.71	-3.05	-40.00	-38.05
395.09	-75.29	-75.58	3.91	-3.63	-40.00	-35.29
7250.00	-49.63	-44.38	10.90	-16.15	-40.00	-9.63
10875.00	-47.28	-38.49	11.15	-19.94	-40.00	-7.28

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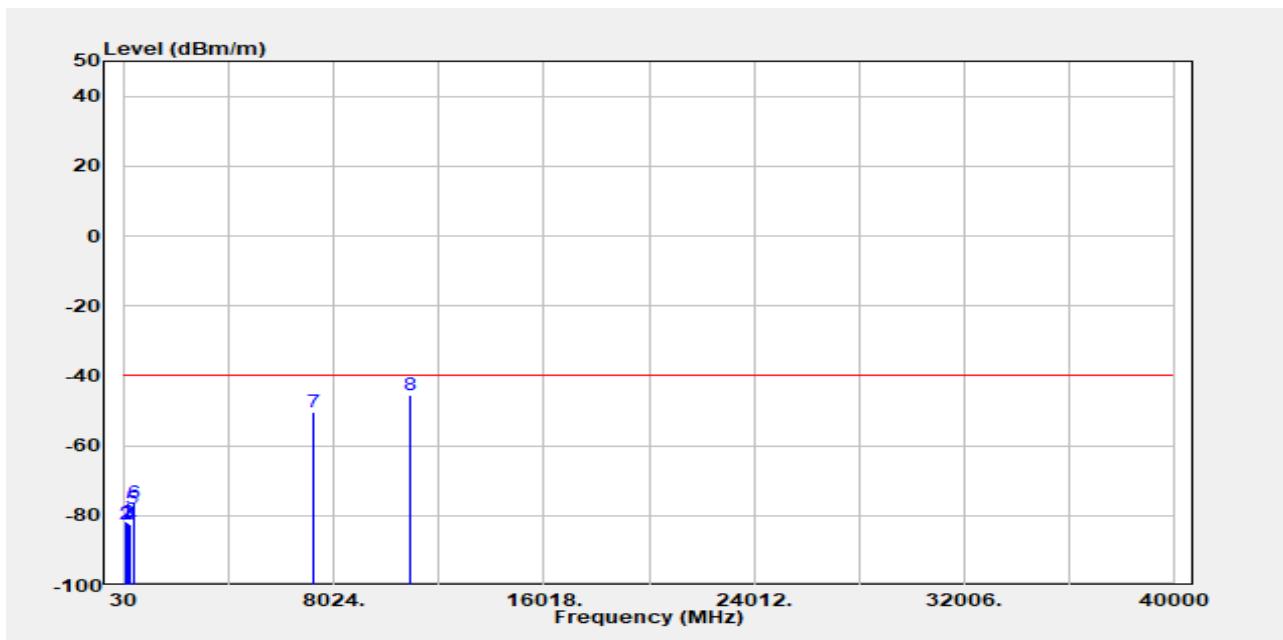
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :LTE B48_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3625 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.29	-81.76	-78.85	-1.20	-1.71	-40.00	-41.76
117.39	-82.50	-78.95	-1.57	-1.99	-40.00	-42.50
153.31	-81.94	-78.23	-1.44	-2.26	-40.00	-41.94
201.86	-82.39	-83.61	3.82	-2.60	-40.00	-42.39
345.57	-78.01	-78.67	4.05	-3.39	-40.00	-38.01
411.59	-76.53	-76.90	4.07	-3.70	-40.00	-36.53
7250.00	-50.40	-45.15	10.90	-16.15	-40.00	-10.40
10875.00	-45.71	-36.92	11.15	-19.94	-40.00	-5.71

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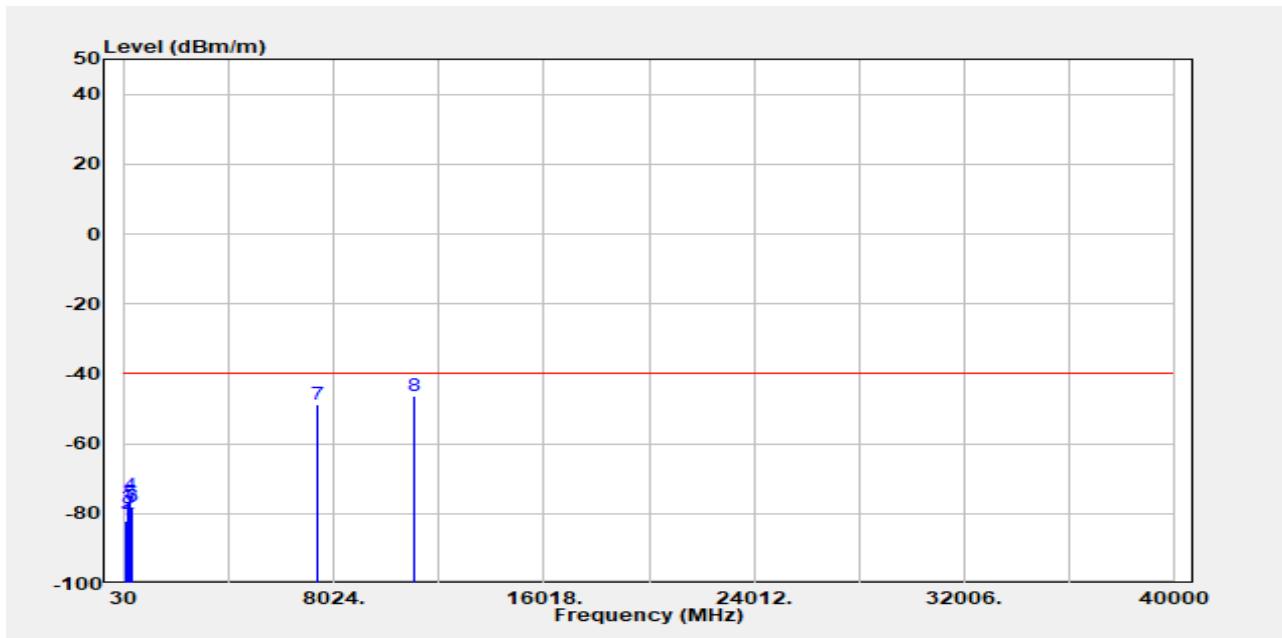
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :LTE B48_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3697.5 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.54	-82.29	-68.44	-12.61	-1.24	-40.00	-42.29
126.13	-79.92	-76.16	-1.70	-2.06	-40.00	-39.92
179.53	-78.62	-77.34	1.17	-2.45	-40.00	-38.62
202.83	-74.73	-76.00	3.88	-2.61	-40.00	-34.73
229.05	-76.69	-78.70	4.77	-2.76	-40.00	-36.69
283.42	-77.88	-78.50	3.69	-3.08	-40.00	-37.88
7395.00	-48.71	-43.46	11.08	-16.33	-40.00	-8.71
11092.50	-46.40	-37.72	11.45	-20.14	-40.00	-6.40

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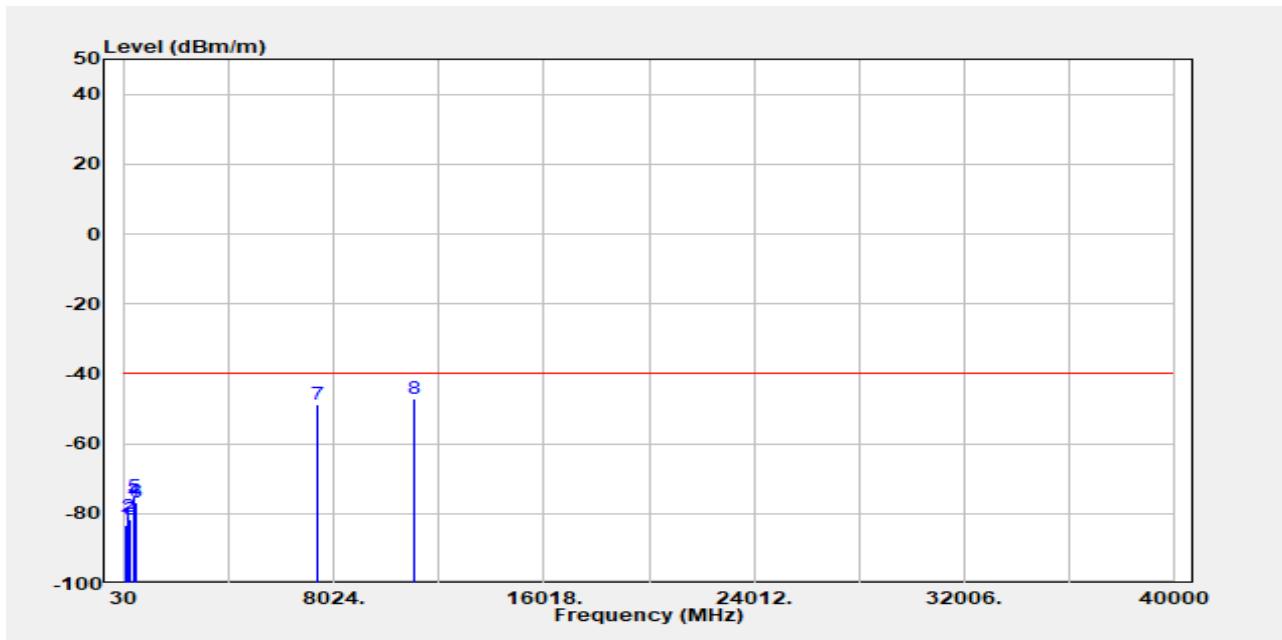
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :LTE B48_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3697.5 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.06	-83.30	-80.74	-0.78	-1.79	-40.00	-43.30
168.85	-80.90	-78.25	-0.27	-2.38	-40.00	-40.90
197.98	-81.91	-82.94	3.61	-2.58	-40.00	-41.91
379.55	-76.30	-76.72	3.99	-3.56	-40.00	-36.30
397.03	-75.12	-75.40	3.91	-3.64	-40.00	-35.12
444.61	-76.91	-76.62	3.56	-3.85	-40.00	-36.91
7395.00	-48.80	-43.55	11.08	-16.33	-40.00	-8.80
11092.50	-47.15	-38.47	11.45	-20.14	-40.00	-7.15

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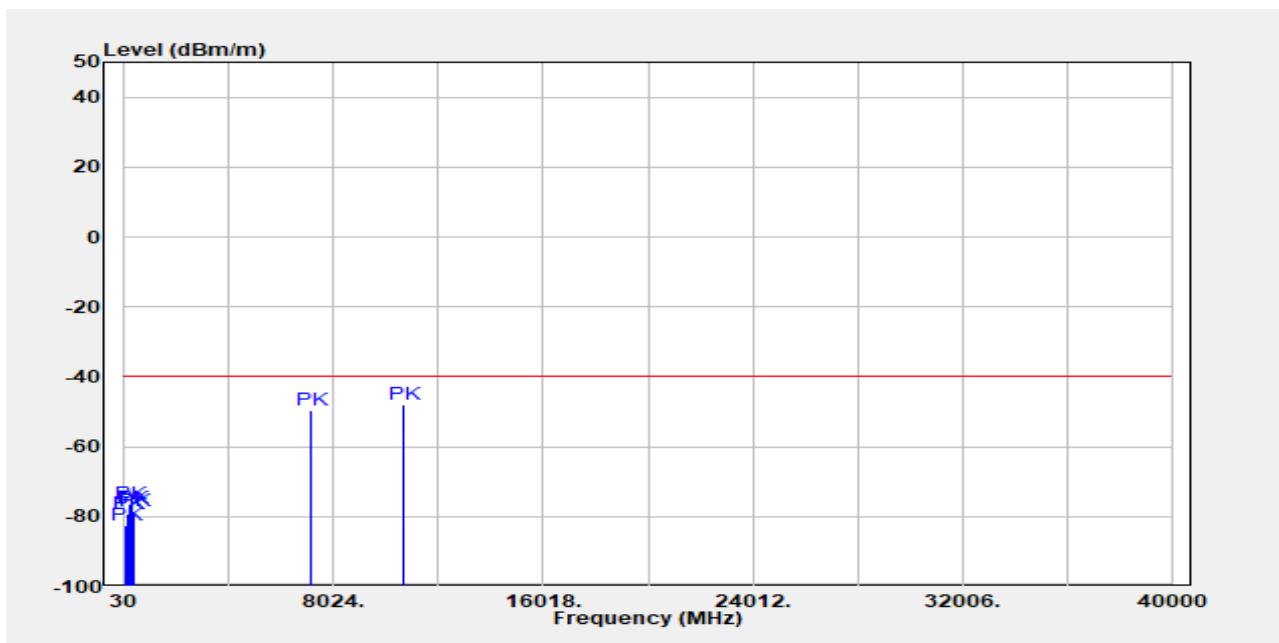
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Mode: ULCA

Report Number	:TERF2501000194ER	Test Site	:SAC 3
Operation Mode	:ULCA 48C	Test Date	:2025-03-18
Test Mode	:Tx	Temp./Humi.	:19.3°C/46%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3566.35 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
45.520	-82.36	-68.51	-12.61	-1.24	-40.00	-42.36
138.640	-79.45	-75.46	-1.85	-2.15	-40.00	-39.45
181.320	-79.18	-78.20	1.48	-2.46	-40.00	-39.18
228.850	-76.47	-78.49	4.78	-2.76	-40.00	-36.47
278.320	-77.65	-78.30	3.70	-3.05	-40.00	-37.65
380.170	-78.32	-78.73	3.98	-3.56	-40.00	-38.32
7132.700	-49.49	-44.56	11.10	-16.02	-40.00	-9.49
10699.050	-47.99	-39.64	11.40	-19.75	-40.00	-7.99

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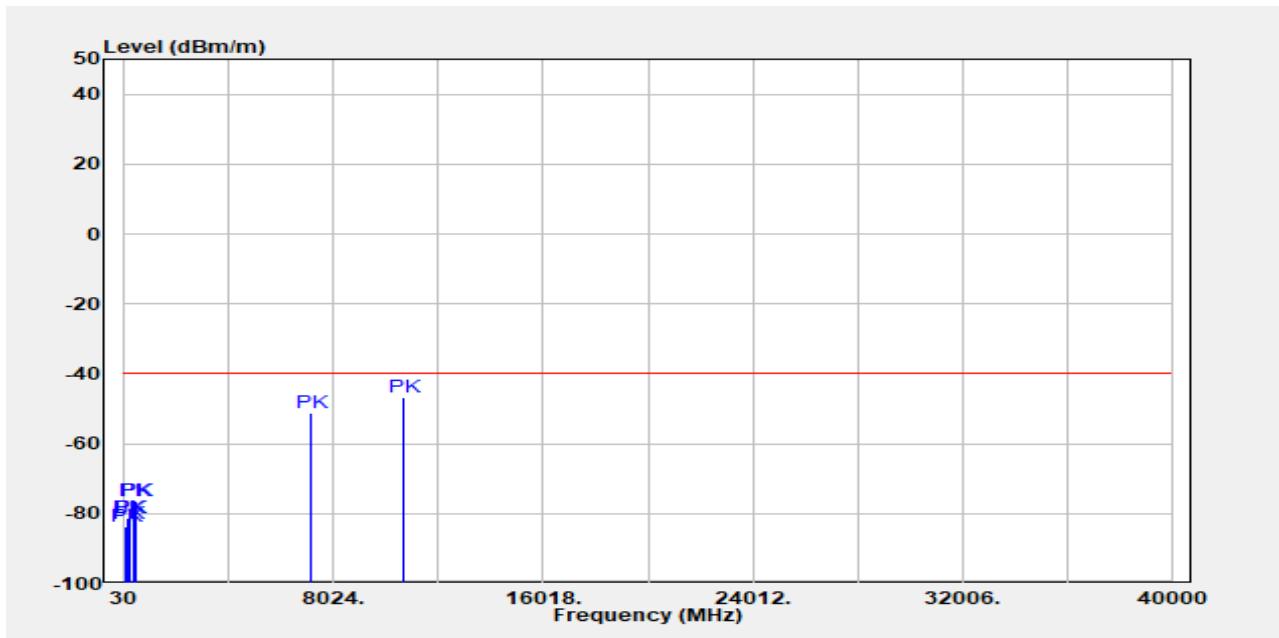
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Report Number :TERF2501000194ER Test Site :SAC 3
 Operation Mode :ULCA 48C Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :3566.35 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
94.990	-83.63	-81.07	-0.77	-1.78	-40.00	-43.63
120.210	-83.10	-79.56	-1.52	-2.01	-40.00	-43.10
175.500	-81.33	-79.42	0.52	-2.42	-40.00	-41.33
206.540	-81.46	-82.94	4.11	-2.63	-40.00	-41.46
385.020	-76.33	-76.64	3.89	-3.58	-40.00	-36.33
458.740	-76.46	-76.40	3.84	-3.90	-40.00	-36.46
7132.700	-51.02	-46.09	11.10	-16.02	-40.00	-11.02
10699.050	-46.59	-38.24	11.40	-19.75	-40.00	-6.59

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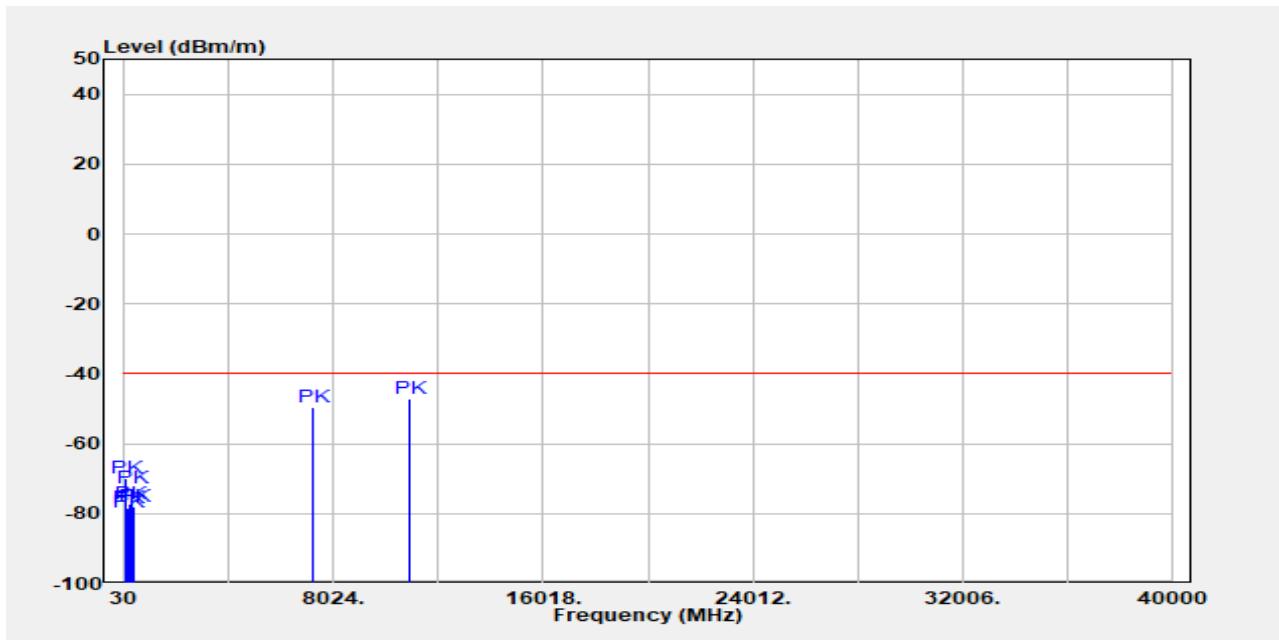
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Report Number :TERF2501000194ER Test Site :SAC 3
Operation Mode :ULCA 48C Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3623.85 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
78.500	-70.11	-64.91	-3.58	-1.62	-40.00	-30.11
132.820	-79.49	-75.73	-1.65	-2.11	-40.00	-39.49
181.320	-78.33	-77.34	1.48	-2.46	-40.00	-38.33
228.850	-77.26	-79.28	4.78	-2.76	-40.00	-37.26
275.410	-72.75	-73.39	3.67	-3.04	-40.00	-32.75
370.470	-78.20	-78.82	4.13	-3.51	-40.00	-38.20
7247.700	-49.67	-44.42	10.90	-16.15	-40.00	-9.67
10871.550	-47.26	-38.49	11.16	-19.93	-40.00	-7.26

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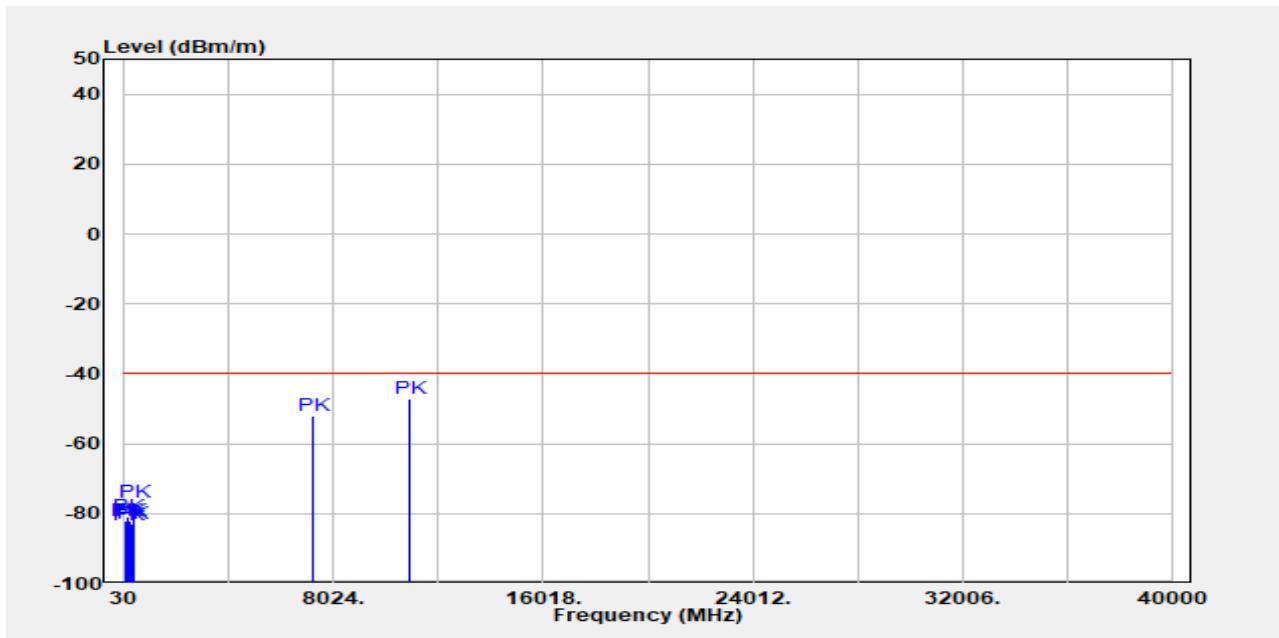
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Report Number :TERF2501000194ER Test Site :SAC 3
Operation Mode :ULCA 48C Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3623.85 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
72.680	-82.31	-74.93	-5.82	-1.56	-40.00	-42.31
119.240	-83.26	-79.74	-1.52	-2.00	-40.00	-43.26
165.800	-80.78	-77.91	-0.51	-2.36	-40.00	-40.78
208.480	-82.05	-83.63	4.23	-2.64	-40.00	-42.05
283.170	-82.96	-83.57	3.69	-3.08	-40.00	-42.96
381.140	-76.65	-77.05	3.96	-3.56	-40.00	-36.65
7247.700	-51.93	-46.68	10.90	-16.15	-40.00	-11.93
10871.550	-47.27	-38.49	11.16	-19.93	-40.00	-7.27

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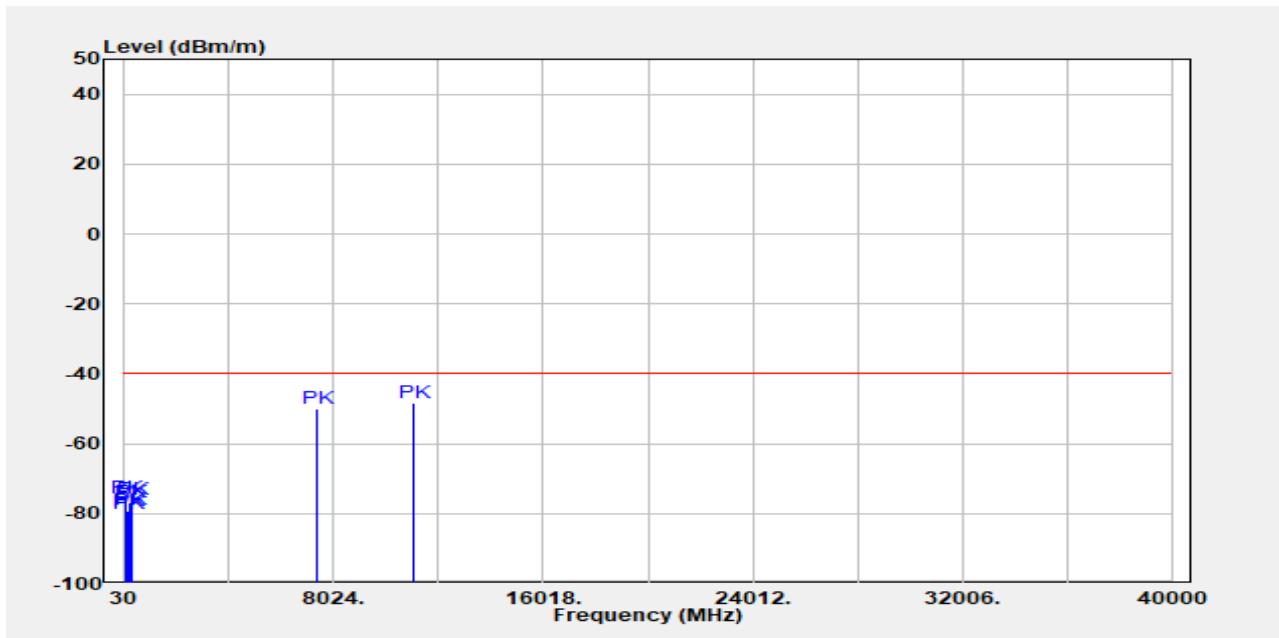
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Report Number :TERF2501000194ER Test Site :SAC 3
Operation Mode :ULCA 48C Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3681.45 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
80.440	-75.75	-71.17	-2.94	-1.64	-40.00	-35.75
146.400	-80.02	-76.09	-1.73	-2.21	-40.00	-40.02
180.350	-79.24	-78.07	1.27	-2.45	-40.00	-39.24
198.780	-78.79	-79.86	3.65	-2.58	-40.00	-38.79
230.790	-76.96	-78.79	4.60	-2.77	-40.00	-36.96
288.990	-75.96	-76.57	3.72	-3.10	-40.00	-35.96
7362.900	-49.99	-44.65	10.95	-16.30	-40.00	-9.99
11044.350	-48.57	-39.69	11.19	-20.07	-40.00	-8.57

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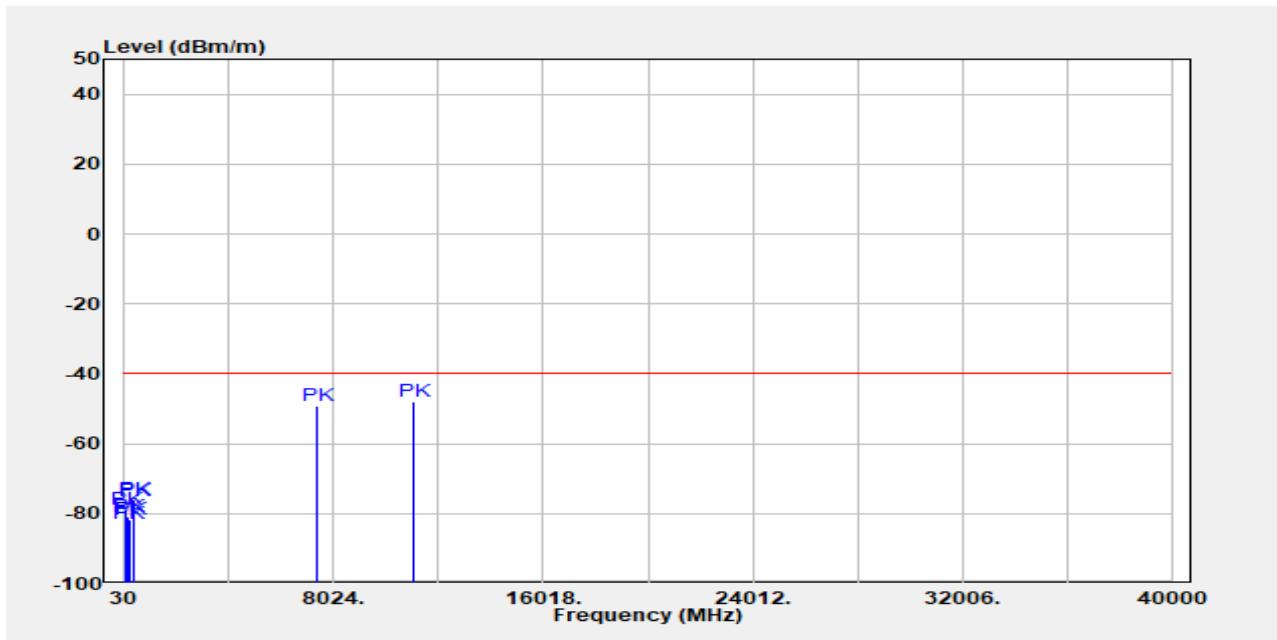
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Report Number :TERF2501000194ER Test Site :SAC 3
Operation Mode :ULCA 48C Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3681.45 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
55.220	-78.68	-66.42	-10.90	-1.36	-40.00	-38.68
115.360	-82.82	-79.38	-1.48	-1.97	-40.00	-42.82
168.710	-80.91	-78.26	-0.27	-2.38	-40.00	-40.91
211.390	-81.81	-83.53	4.38	-2.66	-40.00	-41.81
370.470	-76.26	-76.88	4.13	-3.51	-40.00	-36.26
409.270	-76.13	-76.47	4.02	-3.69	-40.00	-36.13
7362.900	-49.10	-43.75	10.95	-16.30	-40.00	-9.10
11044.350	-48.13	-39.24	11.19	-20.07	-40.00	-8.13

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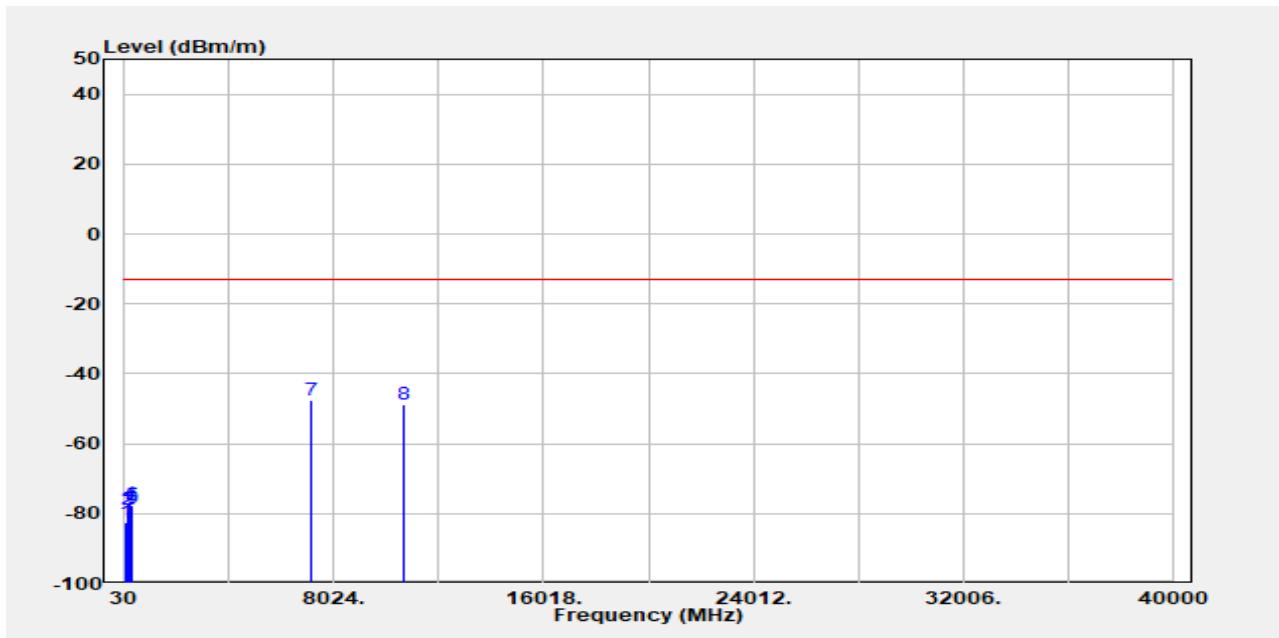
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Mode: NR

Report Number	:TERF2501000196ER	Test Site	:SAC 3
Operation Mode	:NR_n77_P96	Test Date	:2025-03-18
Test Mode	:Tx	Temp./Humi.	:19.3°C/46%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3557.52 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
51.340	-82.66	-69.50	-11.84	-1.32	-13.00	-69.66
124.090	-78.79	-75.19	-1.55	-2.04	-13.00	-65.79
178.410	-78.74	-77.35	1.05	-2.44	-13.00	-65.74
230.790	-77.39	-79.22	4.60	-2.77	-13.00	-64.39
282.200	-77.84	-78.47	3.70	-3.07	-13.00	-64.84
340.400	-78.59	-79.23	4.01	-3.37	-13.00	-65.59
7115.040	-47.72	-42.82	11.10	-16.01	-13.00	-34.72
10672.560	-48.95	-40.58	11.35	-19.71	-13.00	-35.95

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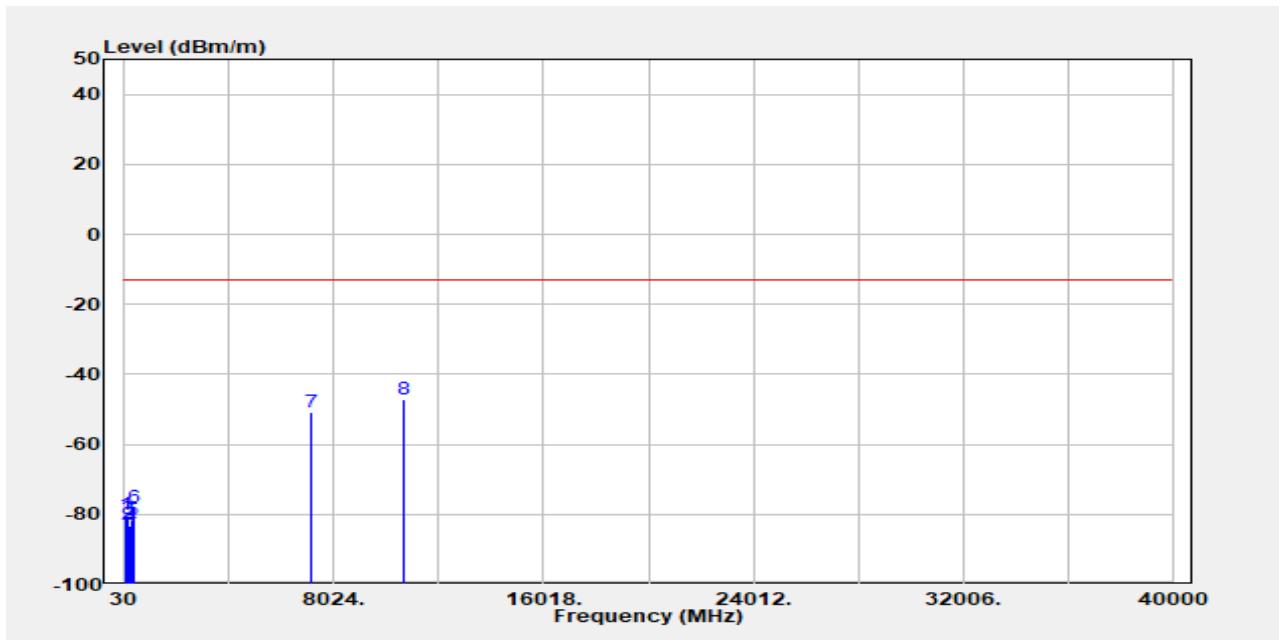
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :NR_n77_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3557.52 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
61.040	-80.20	-69.37	-9.40	-1.43	-13.00	-67.20
135.730	-82.93	-79.04	-1.77	-2.13	-13.00	-69.93
177.440	-81.47	-79.94	0.91	-2.43	-13.00	-68.47
226.910	-83.35	-85.50	4.90	-2.75	-13.00	-70.35
302.570	-81.78	-82.45	3.85	-3.17	-13.00	-68.78
384.050	-78.10	-78.43	3.91	-3.58	-13.00	-65.10
7115.040	-50.94	-46.04	11.10	-16.01	-13.00	-37.94
10672.560	-47.35	-38.99	11.35	-19.71	-13.00	-34.35

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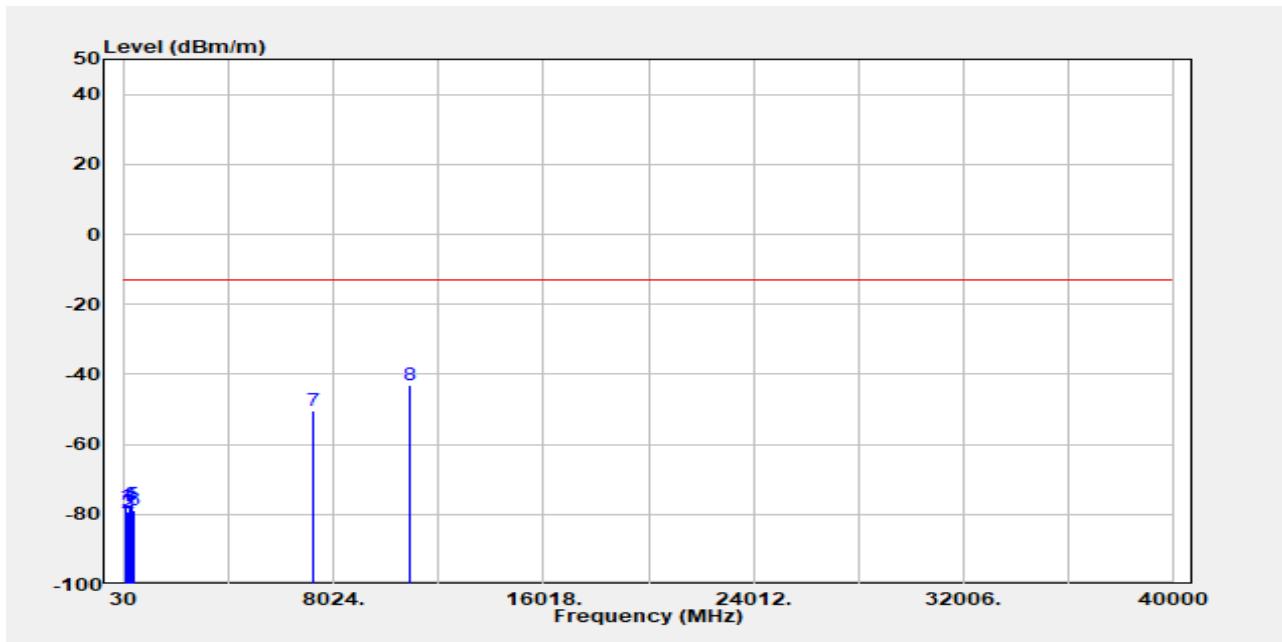
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :NR_n77_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :3625.02 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
73.650	-77.66	-70.77	-5.32	-1.57	-13.00	-64.66
135.730	-79.68	-75.78	-1.77	-2.13	-13.00	-66.68
183.260	-79.30	-78.60	1.77	-2.47	-13.00	-66.30
229.820	-77.39	-79.34	4.72	-2.77	-13.00	-64.39
280.260	-77.21	-77.86	3.72	-3.06	-13.00	-64.21
351.070	-78.81	-79.58	4.19	-3.42	-13.00	-65.81
7250.040	-50.24	-44.99	10.90	-16.15	-13.00	-37.24
10875.060	-43.15	-34.36	11.15	-19.94	-13.00	-30.15

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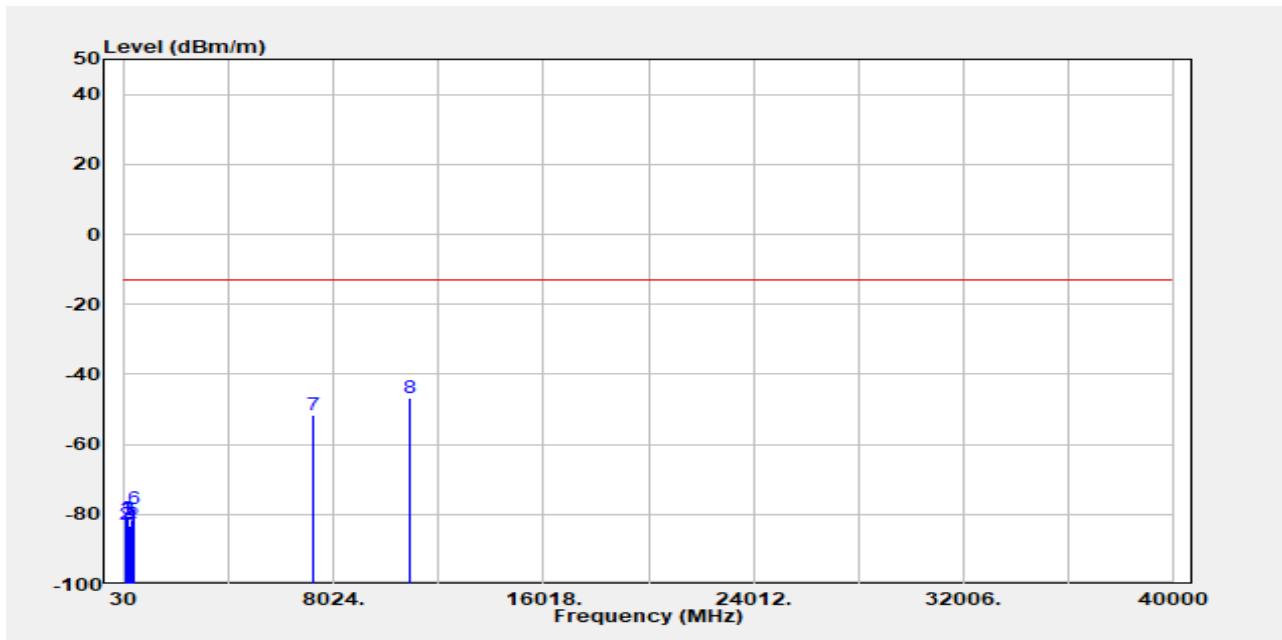
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :NR_n77_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3625.02 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
62.980	-81.19	-70.90	-8.83	-1.45	-13.00	-68.19
99.840	-83.12	-80.28	-1.02	-1.83	-13.00	-70.12
172.590	-81.26	-79.03	0.18	-2.41	-13.00	-68.26
213.330	-83.24	-85.03	4.46	-2.67	-13.00	-70.24
316.150	-81.51	-82.05	3.78	-3.25	-13.00	-68.51
373.380	-78.48	-79.04	4.09	-3.53	-13.00	-65.48
7250.040	-51.43	-46.18	10.90	-16.15	-13.00	-38.43
10875.060	-46.93	-38.15	11.15	-19.94	-13.00	-33.93

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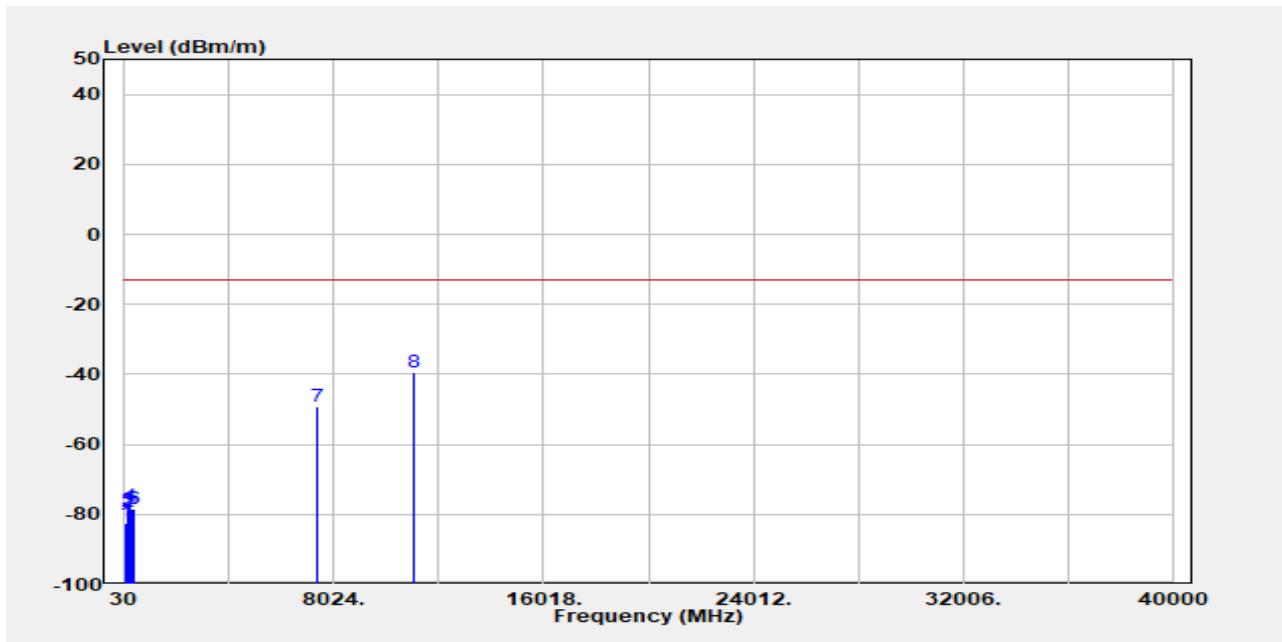
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Report Number :TERF2501000196ER Test Site :SAC 3
 Operation Mode :NR_n77_P96 Test Date :2025-03-18
 Test Mode :Tx Temp./Humi. :19.3°C/46%
 EUT Pol :H Plane Antenna Pol. :Vertical
 Test Frequency :3692.49 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
72.680	-82.50	-75.12	-5.82	-1.56	-13.00	-69.50
134.760	-79.36	-75.43	-1.80	-2.12	-13.00	-66.36
180.350	-78.80	-77.62	1.27	-2.45	-13.00	-65.80
238.550	-77.64	-78.59	3.77	-2.82	-13.00	-64.64
286.080	-78.26	-78.86	3.69	-3.09	-13.00	-65.26
370.470	-78.47	-79.09	4.13	-3.51	-13.00	-65.47
7384.980	-49.09	-43.81	11.04	-16.32	-13.00	-36.09
11077.470	-39.61	-30.86	11.36	-20.12	-13.00	-26.61

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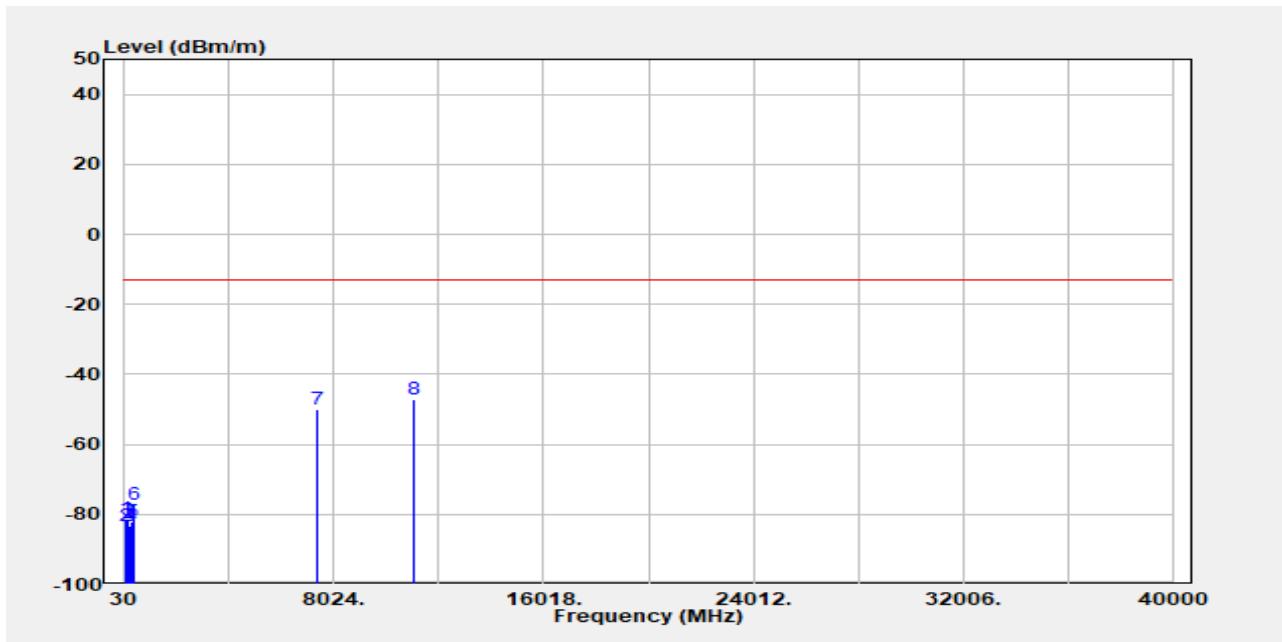
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Report Number :TERF2501000196ER Test Site :SAC 3
Operation Mode :NR_n77_P96 Test Date :2025-03-18
Test Mode :Tx Temp./Humi. :19.3°C/46%
EUT Pol :H Plane Antenna Pol. :Horizontal
Test Frequency :3692.49 MHz Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
62.010	-81.40	-70.89	-9.07	-1.44	-13.00	-68.40
100.810	-83.45	-80.42	-1.19	-1.84	-13.00	-70.45
164.830	-81.81	-78.95	-0.51	-2.35	-13.00	-68.81
215.270	-83.44	-85.30	4.54	-2.68	-13.00	-70.44
305.480	-81.96	-82.64	3.86	-3.19	-13.00	-68.96
407.330	-77.25	-77.55	3.98	-3.68	-13.00	-64.25
7384.980	-50.03	-44.75	11.04	-16.32	-13.00	-37.03
11077.470	-47.14	-38.39	11.36	-20.12	-13.00	-34.14

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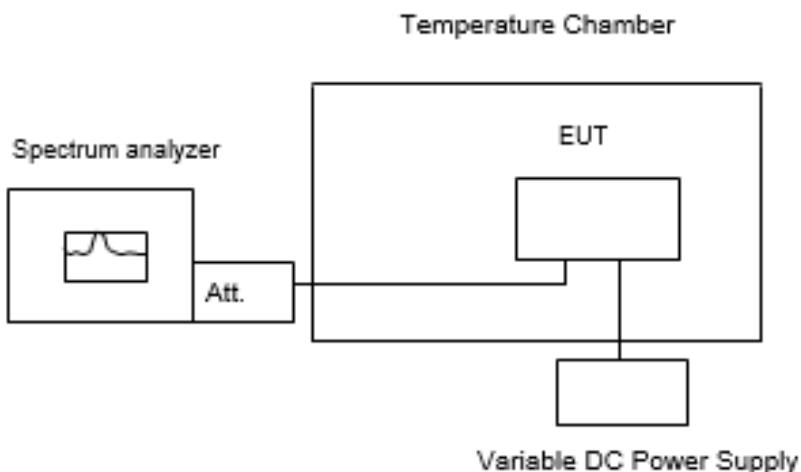
12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicable

FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5 \text{ ppm}$) of the center frequency.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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12.4 Measurement Result

Note: The module's voltage is 3.3Vdc.

Mode: LTE

Reference Freq.:		LTE B48 Mid Channel		3625.0000	MHz 10M QPSK CH 55990
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
3.795	20	3625.000004	0.0011	+/- 2.5 ppm	
3.3	20	3625.000004	0.0010		
2.805	20	3624.999994	-0.0016		
2.9 (End Point)	20	3624.999994	-0.0017		
Freq. ERROR vs. Temp.					
3.3	-30	3625.000005	0.0015	+/- 2.5 ppm	
3.3	-20	3625.000009	0.0024		
3.3	-10	3624.999993	-0.0020		
3.3	0	3625.000010	0.0027		
3.3	10	3625.000004	0.0012		
3.3	20	3624.999998	-0.0004		
3.3	30	3625.000004	0.0010		
3.3	40	3624.999990	-0.0027		
3.3	50	3624.999991	-0.0025		

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Mode: ULCA

Reference Freq.:	LTE CA B48: Mid Channel (MHz)		3625
	Channel Bandwidth:		20MHz+20MHz
Power Supply Vdc	Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
Freq. ERROR vs. VOLTAGE			
4.4	20	3625.000005	0.0014
3.3	20	3624.999988	-0.0033
3.135	20	3624.999997	-0.0007
2.9	20	3625.000008	0.0021
(End Point)			
Freq. ERROR vs. Temp.			
3.3	-30	3625.000012	11.9400
3.3	-20	3625.000006	5.6200
3.3	-10	3624.999992	-7.9100
3.3	0	3625.000008	7.6400
3.3	10	3624.999991	-9.0500
3.3	20	3624.999987	-12.8100
3.3	30	3624.999998	-1.6800
3.3	40	3624.999997	-2.6300
3.3	50	3625.000011	10.8600

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Mode: NR

5G NR BAND n48 Part96				
Reference Freq.:		Modulation.:		CP-OFDM QPSK
SCS.:	30 kHz	Bandwidth:		40MHz
CH	641668	Frequency(MHz):		3625.02
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm
4.4	20	3625.020027	0.0076	+/- 2.5 ppm
3.3	20	3625.020009	0.0026	
3.135	20	3625.019987	-0.0037	
2.9 (End Point)	20	3625.019996	-0.0012	
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm
3.3	-30	3625.020015	0.0042	+/- 2.5 ppm
3.3	-20	3625.020018	0.0049	
3.3	-10	3625.020017	0.0047	
3.3	0	3625.020013	0.0037	
3.3	10	3625.020002	0.0006	
3.3	20	3625.019991	-0.0026	
3.3	30	3625.019995	-0.0013	
3.3	40	3625.020006	0.0015	
3.3	50	3625.019981	-0.0051	

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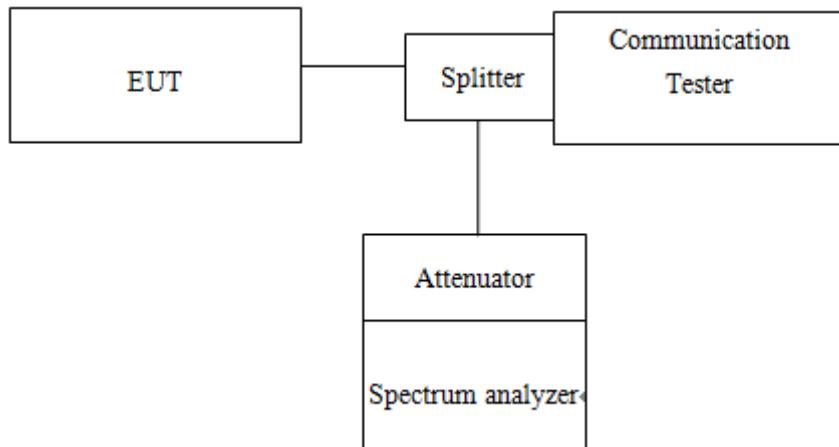
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4 Measurement Result

Mode: LTE

LTE BAND 48							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3552.5	55265	10.13	13	3555.0	55290	6.38	13
3625.0	55990	10.34	13	3625.0	55990	6.66	13
3697.5	56715	8.36	13	3695.0	56690	11.12	13

LTE BAND 48							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3557.5	55315	6.22	13	3650.0	55340	6.27	13
3625.0	55990	8.55	13	3625.0	55990	6.20	13
3692.5	56665	6.28	13	3690.0	56640	6.58	13

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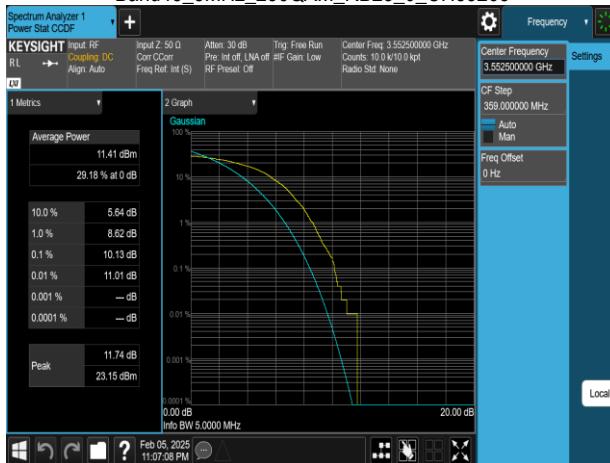
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Band48 5MHz 256QAM RB25_0 CH55265



Band48 5MHz 256QAM RB25_0 CH55990



Band48 5MHz 256QAM RB25_0 CH56715



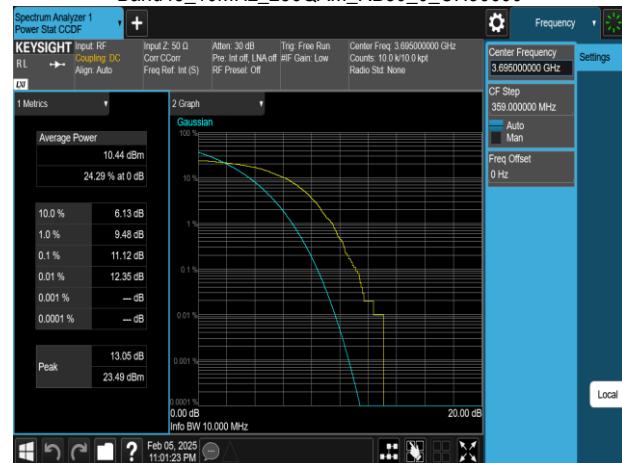
Band48_10MHz_256QAM_RB50_0_CH55290



Band48_10MHz_256QAM_RB50_0_CH55990



Band48_10MHz_256QAM_RB50_0_CH56690



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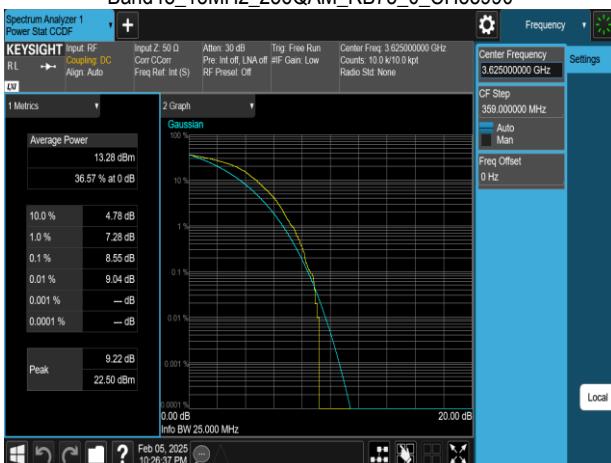
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Band48_20MHz_256QAM_RB100_0_CH55340



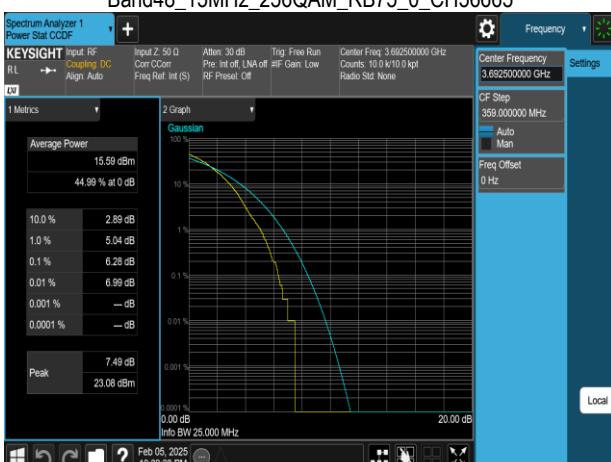
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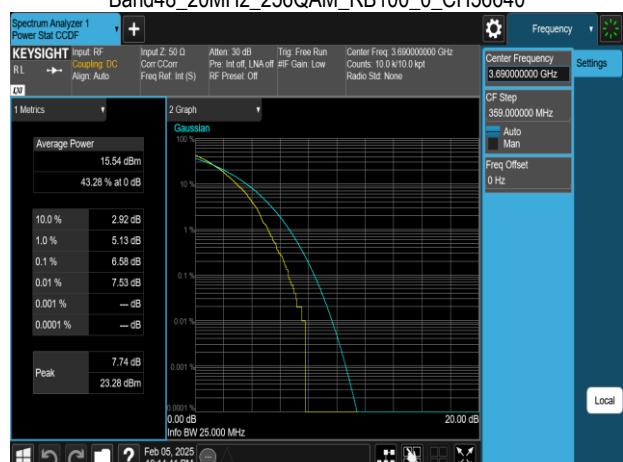
Band48_20MHz_256QAM_RB100_0_CH55990



Band48_15MHz_256QAM_RB75_0_CH56665



Band48_20MHz_256QAM_RB100_0_CH56640



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Mode: ULCA

LTE BAND 48C

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	PAPR (dB)	
				256QAM	Limit
LTE BAND 48C	5MHz + 20MHz	25/0 + 100/0	3625.0	6.92	13
LTE BAND 48C	20MHz + 5MHz	100/0 + 25/0	3625.0	6.900	13
LTE BAND 48C	10MHz + 20MHz	50/0 + 100/0	3625.0	6.850	13
LTE BAND 48C	20MHz + 10MHz	100/0 + 50/0	3625.0	6.790	13
LTE BAND 48C	15MHz + 20MHz	75/0 + 100/0	3625.0	7.070	13
LTE BAND 48C	20MHz + 15MHz	100/0 + 75/0	3625.0	7.010	13
LTE BAND 48C	20MHz + 20MHz	100/0 + 100/0	3625.0	7.440	13

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Band48_5MHz+20MHz_256QAM_RB25-0+RB100-0_CH55898+CH56015



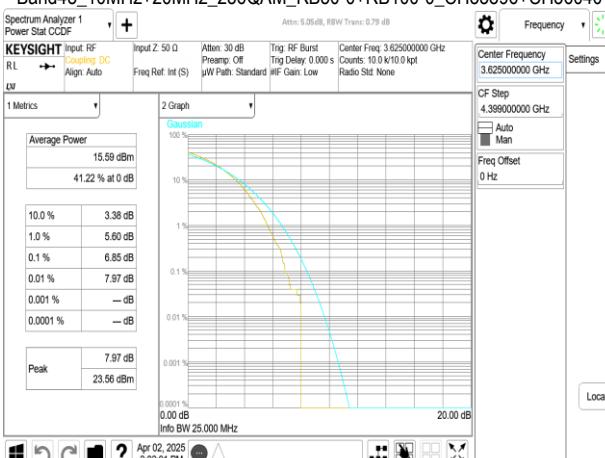
Band48_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH55941+CH56085



Band48_20MHz+5MHz_256QAM_RB100-0+RB25-0_CH55965+CH56082

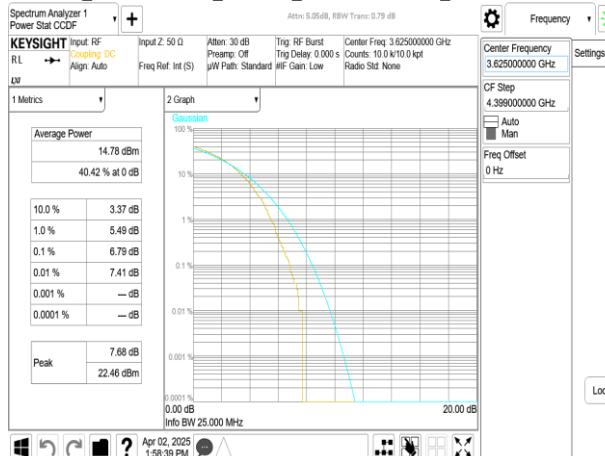


Band48_10MHz+20MHz_256QAM_RB50-0+RB100-0_CH55896+CH56040

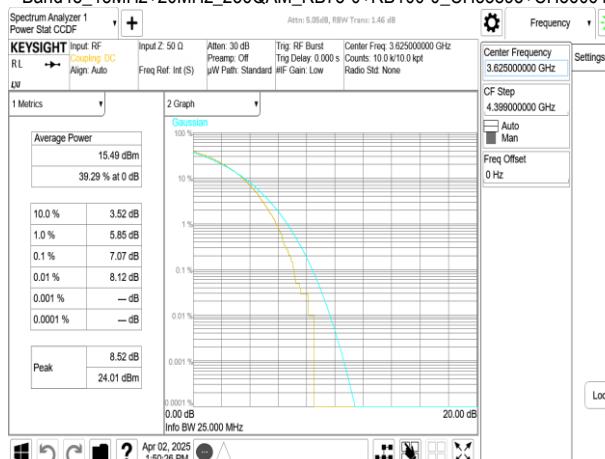


Band48_20MHz+15MHz_256QAM_RB100-0+RB75-0_CH55916+CH56087

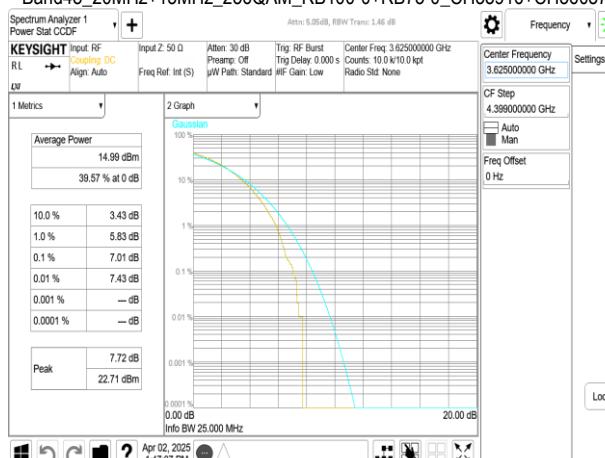
Band48_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH55941+CH56085



Band48_15MHz+20MHz_256QAM_RB75-0+RB100-0_CH55893+CH56064



Band48_20MHz+15MHz_256QAM_RB100-0+RB75-0_CH55916+CH56087



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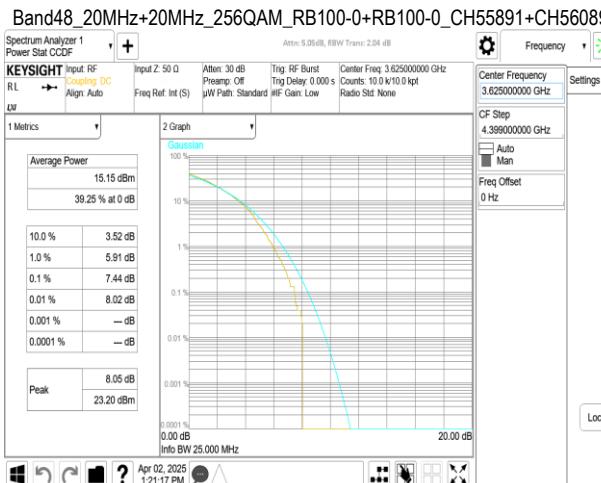
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Mode: NR

5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 15 kHz							
Channel bandwidth: 10MHz				Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3555	637000	6.44	13	3557.52	637168	6.65	13
3625.02	641668	6.75	13	3625.02	641668	6.40	13
3694.98	646332	6.30	13	3692.49	646166	6.37	13
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 15 kHz							
Channel bandwidth: 20MHz				Channel bandwidth: 30MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3560.01	637334	6.45	13	3565.02	637668	6.39	13
3625.02	641668	6.44	13	3625.02	641668	6.54	13
3690	646000	6.59	13	3684.99	645666	6.53	13
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 15 kHz							
Channel bandwidth: 40MHz							
Freq. (MHz)	CH	PAPR (dB)					
		256QAM	Limit				
3570	638000	7.02	13				
3625.02	641668	6.90	13				
3679.98	645332	6.87	13				
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 10MHz				Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3555.00	637000	6.74	13	3557.52	637168	6.24	13
3625.02	641668	6.17	13	3625.02	641668	6.34	13
3694.98	646332	6.34	13	3692.49	646166	6.16	13
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 20MHz				Channel bandwidth: 30MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3560.01	637334	6.32	13	3565.02	637668	6.55	13
3625.02	641668	6.68	13	3625.02	641668	6.55	13
3690.00	646000	6.40	13	3684.99	645666	6.78	13
5G NR BAND n48 Part96(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 40MHz							
Freq. (MHz)	CH	PAPR (dB)					
		256QAM	Limit				
3570.00	638000	6.82	13				
3625.02	641668	7.10	13				
3679.98	645332	7.11	13				

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路134號

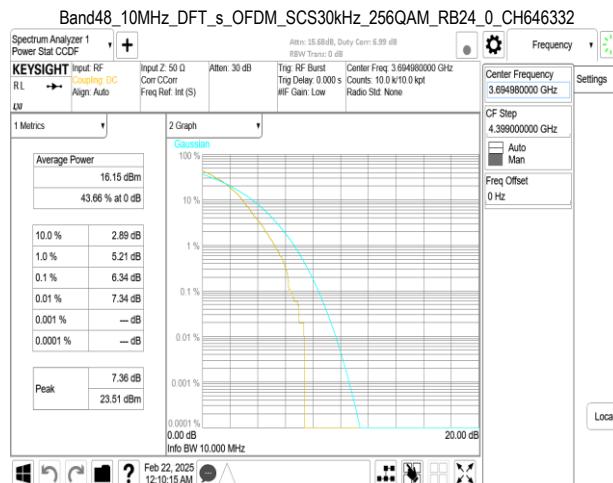
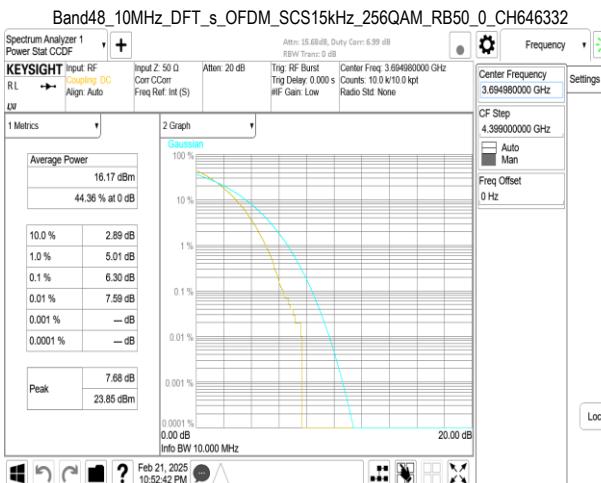
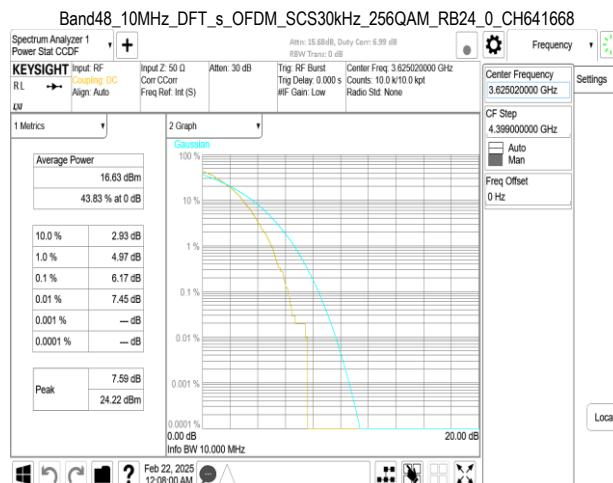
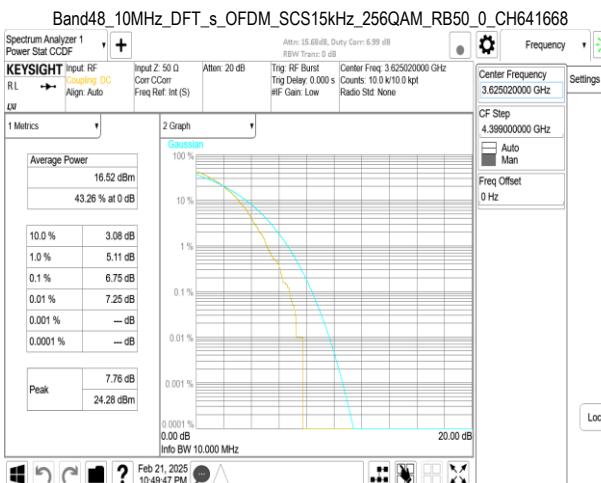
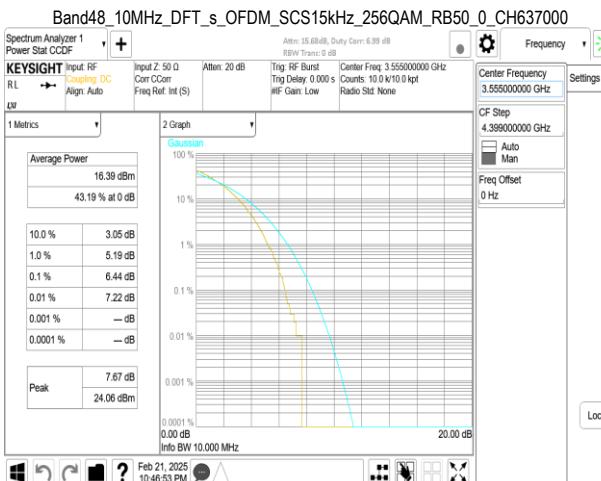
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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