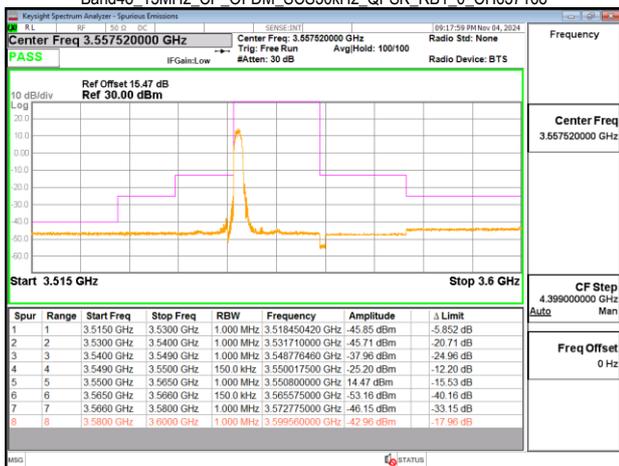


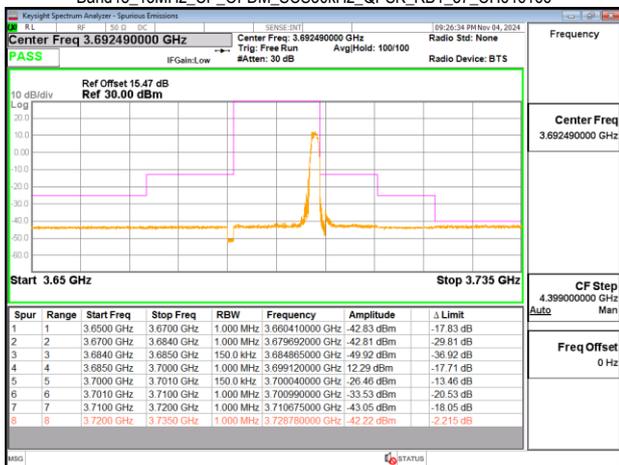
Band48 15MHz CP OFDM_SCS30kHz_QPSK_RB1_0_CH637168



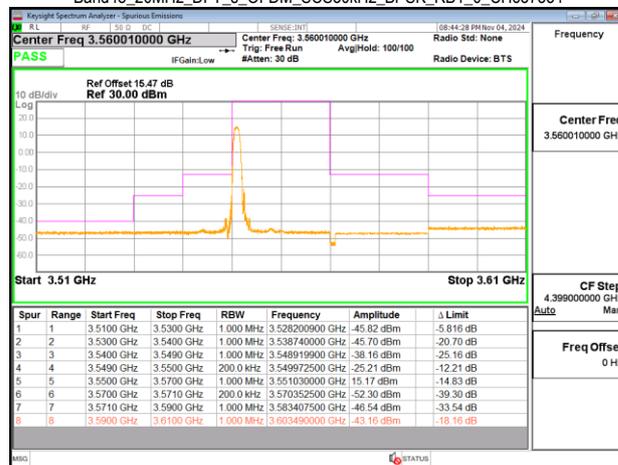
Band48 15MHz CP OFDM_SCS30kHz_QPSK_RB38_0_CH646166



Band48 15MHz CP OFDM_SCS30kHz_QPSK_RB1_37_CH646166



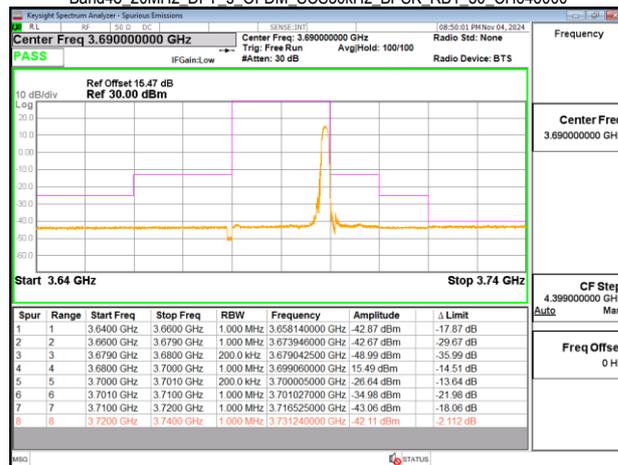
Band48 20MHz DFT_s OFDM_SCS30kHz_BPSK_RB1_0_CH637334



Band48 15MHz CP OFDM_SCS30kHz_QPSK_RB38_0_CH637168



Band48 20MHz DFT_s OFDM_SCS30kHz_BPSK_RB1_50_CH646000

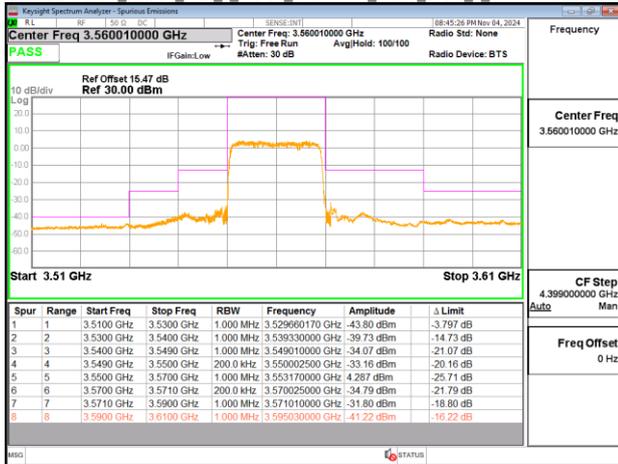


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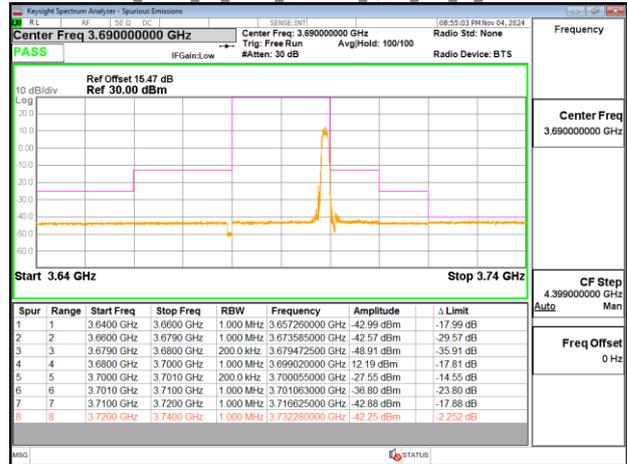
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Band48 20MHz DFT s OFDM SCS30kHz BPSK RB50_0 CH637334



Band48 20MHz CP OFDM SCS30kHz QPSK RB1_50 CH646000



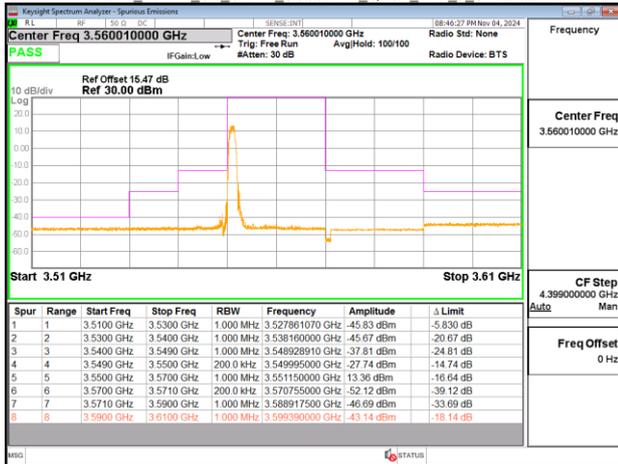
Band48 20MHz DFT s OFDM SCS30kHz BPSK RB50_0 CH646000



Band48 20MHz CP OFDM SCS30kHz QPSK RB51_0 CH637334



Band48 20MHz CP OFDM SCS30kHz QPSK RB1_0 CH637334



Band48 20MHz CP OFDM SCS30kHz QPSK RB51_0 CH646000

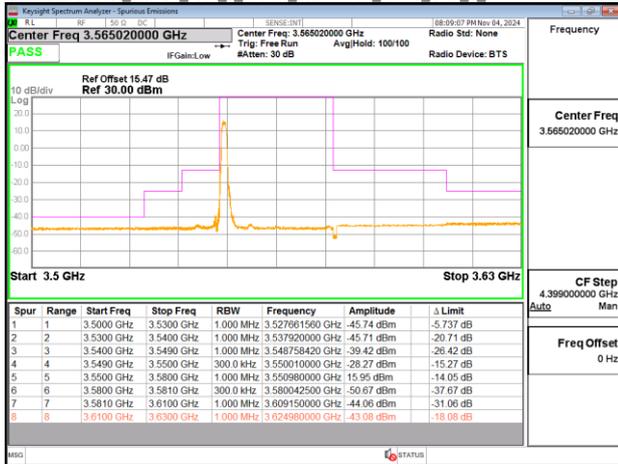


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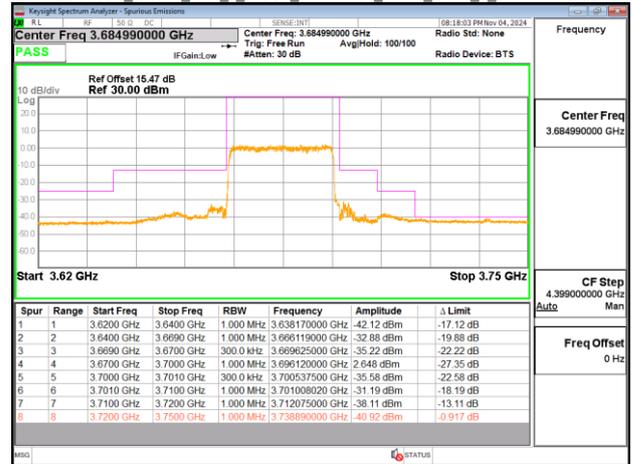
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Band48 30MHz DFT s OFDM SCS30kHz BPSK RB1_0 CH637668



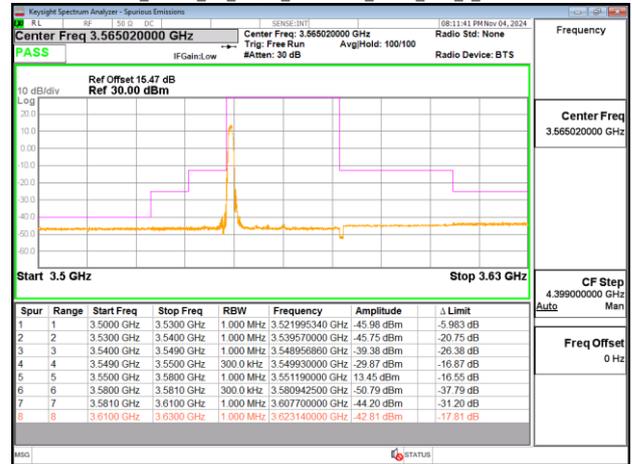
Band48 30MHz DFT s OFDM SCS30kHz BPSK RB75_0 CH645666



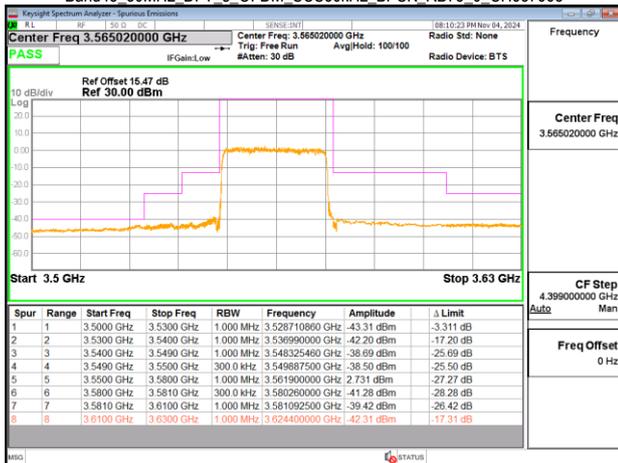
Band48 30MHz DFT s OFDM SCS30kHz BPSK RB1_77 CH645666



Band48 30MHz CP OFDM SCS30kHz QPSK RB1_0 CH637668



Band48 30MHz DFT s OFDM SCS30kHz BPSK RB75_0 CH637668



Band48 30MHz CP OFDM SCS30kHz QPSK RB1_77 CH645666

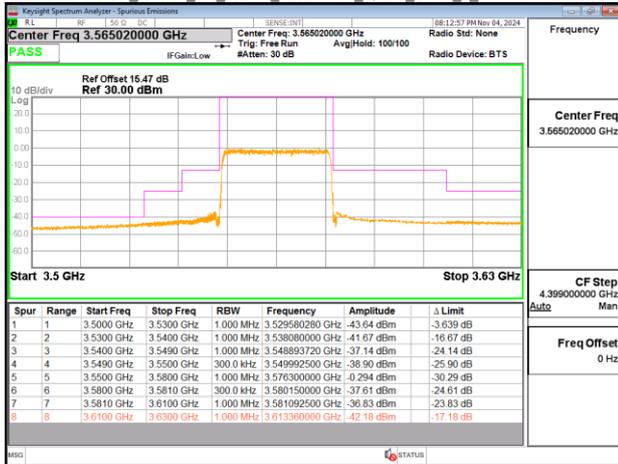


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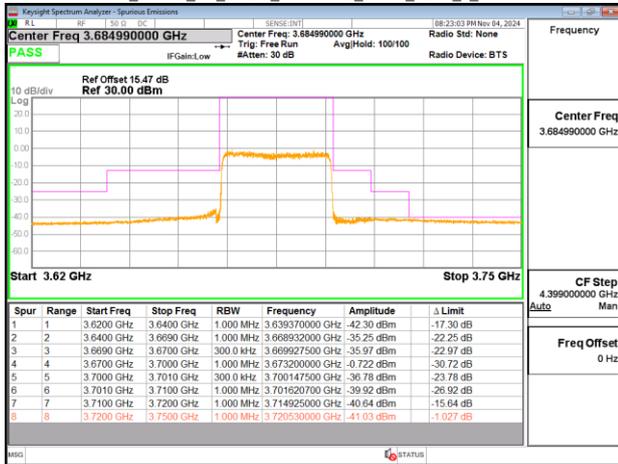
Band48 30MHz CP_OFDM_SCS30kHz_QPSK_RB78_0_CH637668



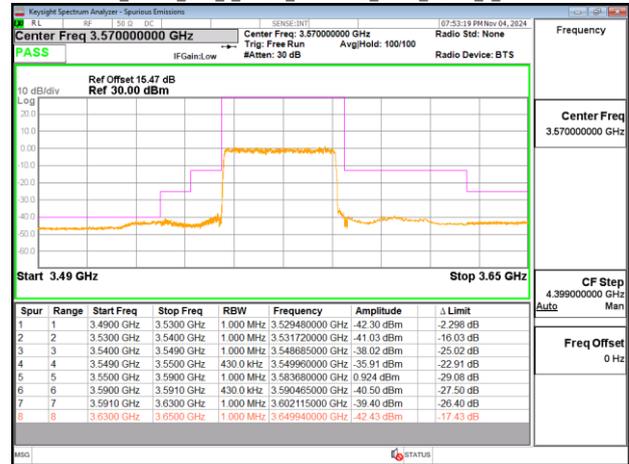
Band48 40MHz DFT_s_OFDM_SCS30kHz_BPSK_RB1_105_CH645332



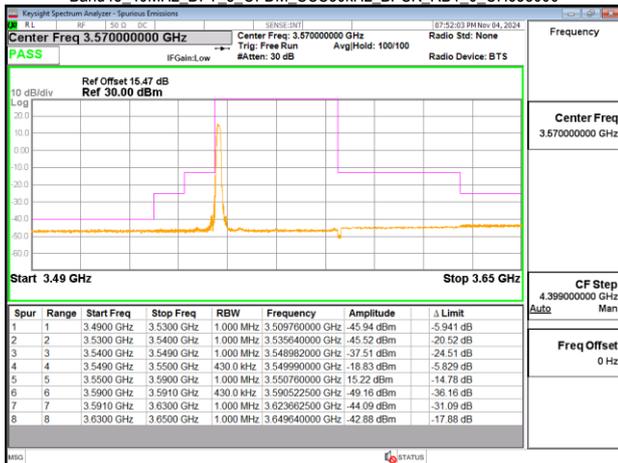
Band48 30MHz CP_OFDM_SCS30kHz_QPSK_RB78_0_CH645666



Band48 40MHz DFT_s_OFDM_SCS30kHz_BPSK_RB100_0_CH638000



Band48 40MHz DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH638000



Band48 40MHz DFT_s_OFDM_SCS30kHz_BPSK_RB100_0_CH645332

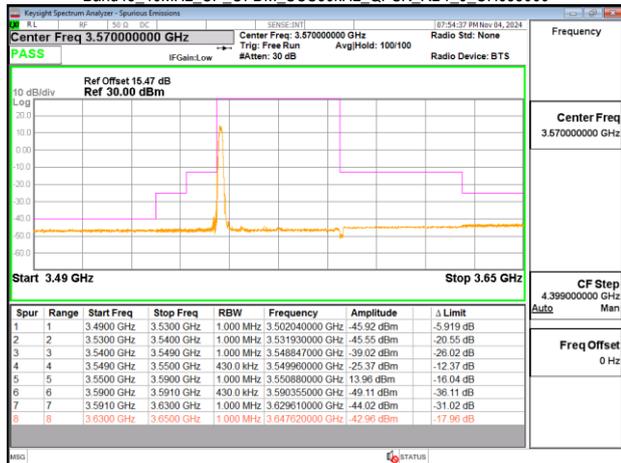


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Band48 40MHz CP OFDM SCS30kHz QPSK RB1_0_CH638000



Band48 40MHz CP OFDM SCS30kHz QPSK RB106_0_CH645332



Band48 40MHz CP OFDM SCS30kHz QPSK RB1_105_CH645332



Band48 40MHz CP OFDM SCS30kHz QPSK RB106_0_CH638000



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

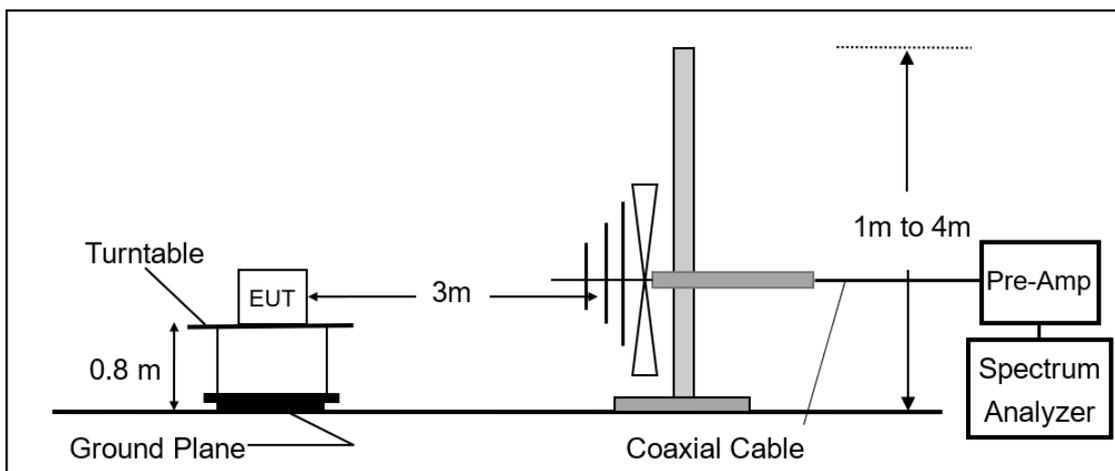
11.1 Standard Applicable

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

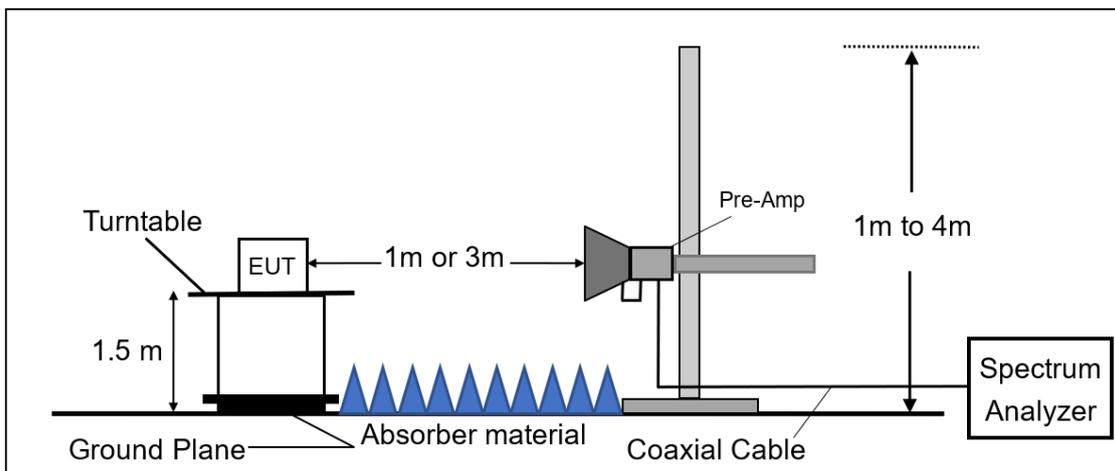
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

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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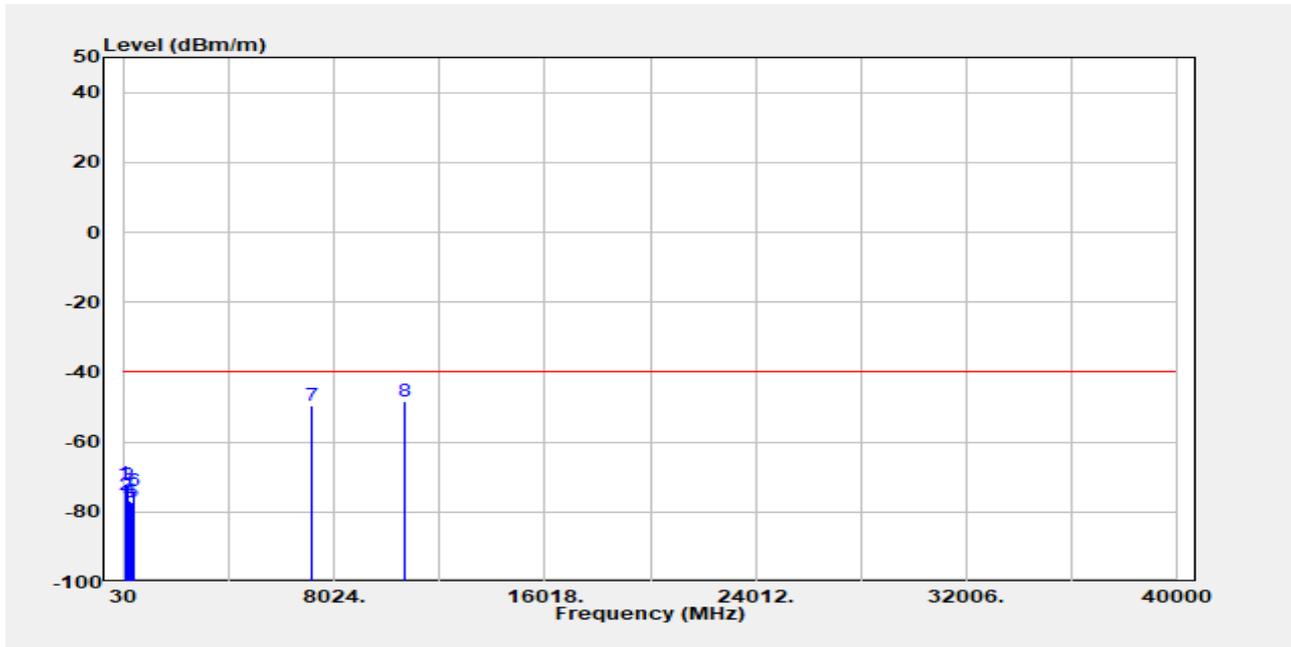
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11.4 Measurement Result:

Mode: LTE

Report Number	:TERF2407002105ER	Test Site	:SAC 3
Operation Mode	:LTE B48	Test Date	:2024-10-21
Test Mode	:Tx	Temp./Humi.	:26.1°C/57%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3555 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-71.98	-57.57	-13.25	-1.16	-40.00	-31.97
70.74	-75.28	-67.29	-6.45	-1.54	-40.00	-35.28
149.31	-72.41	-68.58	-1.60	-2.23	-40.00	-32.42
229.82	-76.82	-78.78	4.72	-2.77	-40.00	-36.82
280.26	-77.28	-77.94	3.72	-3.06	-40.00	-37.28
367.56	-73.80	-74.48	4.18	-3.50	-40.00	-33.80
7110.00	-49.43	-44.41	10.98	-16.00	-40.00	-9.43
10665.00	-48.24	-39.97	11.43	-19.70	-40.00	-8.24

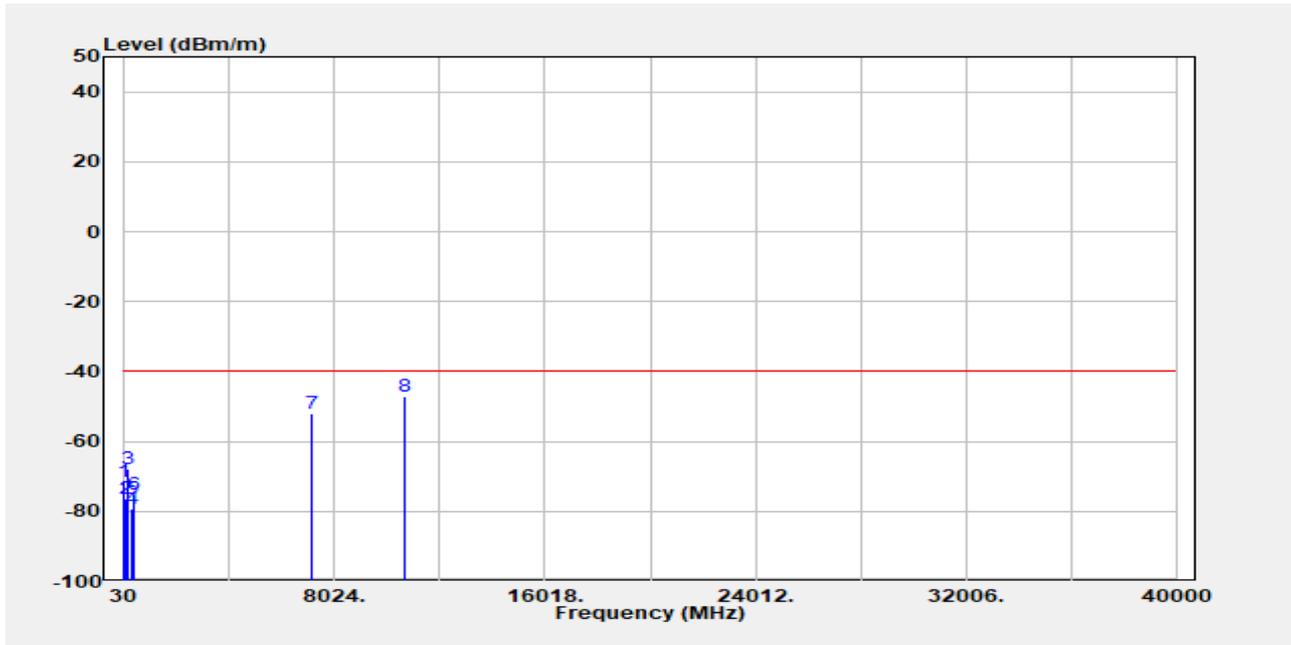
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Report Number :TERF2407002105ER
 Operation Mode :LTE B48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3555 MHz

Test Site :SAC 3
 Test Date :2024-10-21
 Temp./Humi. :26.1°C/57%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-71.72	-56.15	-14.54	-1.03	-40.00	-31.72
68.80	-76.51	-67.92	-7.07	-1.52	-40.00	-36.50
151.25	-67.77	-63.90	-1.62	-2.25	-40.00	-27.77
288.02	-79.43	-80.04	3.71	-3.10	-40.00	-39.43
345.25	-76.32	-76.98	4.05	-3.39	-40.00	-36.32
405.39	-75.22	-75.49	3.94	-3.67	-40.00	-35.23
7110.00	-51.85	-46.83	10.98	-16.00	-40.00	-11.85
10665.00	-47.34	-39.07	11.43	-19.70	-40.00	-7.34

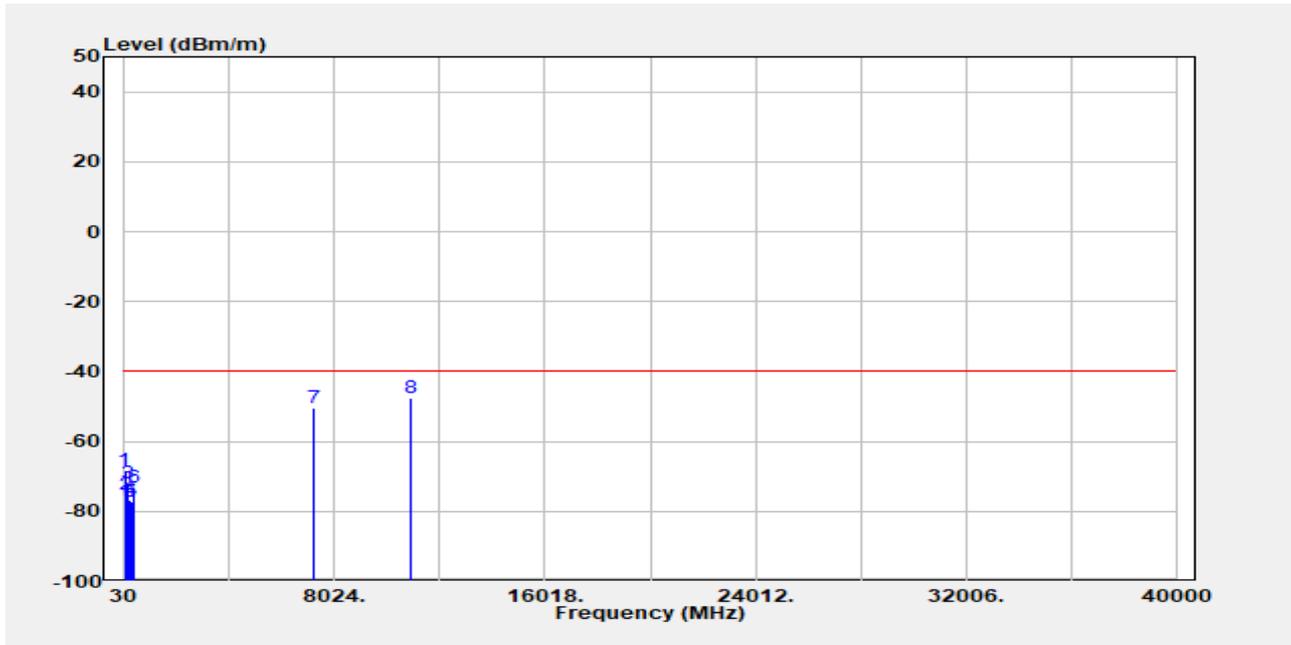
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Report Number :TERF2407002105ER
 Operation Mode :LTE B48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3625 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :26.1°C/57%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
39.700	-68.17	-53.76	-13.25	-1.16	-40.00	-28.17
71.710	-75.17	-67.39	-6.23	-1.55	-40.00	-35.17
151.250	-72.05	-68.18	-1.63	-2.25	-40.00	-32.05
227.880	-76.67	-78.75	4.84	-2.76	-40.00	-36.67
268.620	-77.20	-78.13	3.93	-3.00	-40.00	-37.20
375.320	-73.36	-73.87	4.05	-3.54	-40.00	-33.36
7250.000	-50.21	-44.86	10.80	-16.15	-40.00	-10.21
10875.000	-47.63	-38.85	11.15	-19.94	-40.00	-7.63

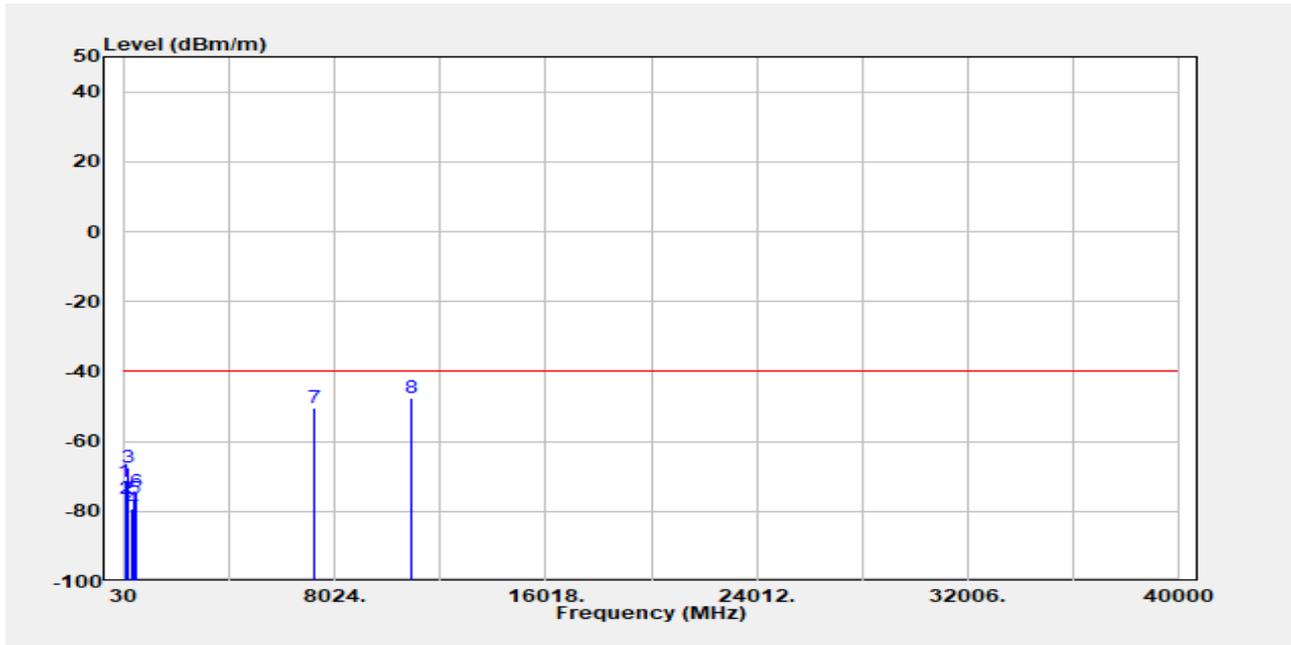
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Report Number :TERF2407002105ER
 Operation Mode :LTE B48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3625 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :26.1°C/57%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
38.730	-71.73	-57.18	-13.41	-1.14	-40.00	-31.73
70.740	-76.54	-68.55	-6.45	-1.54	-40.00	-36.54
154.160	-67.56	-63.81	-1.48	-2.27	-40.00	-27.56
276.380	-79.08	-79.72	3.68	-3.04	-40.00	-39.08
374.350	-76.28	-76.82	4.07	-3.53	-40.00	-36.28
426.730	-74.59	-74.80	3.98	-3.77	-40.00	-34.59
7250.000	-50.57	-45.22	10.80	-16.15	-40.00	-10.57
10875.000	-47.37	-38.59	11.15	-19.94	-40.00	-7.37

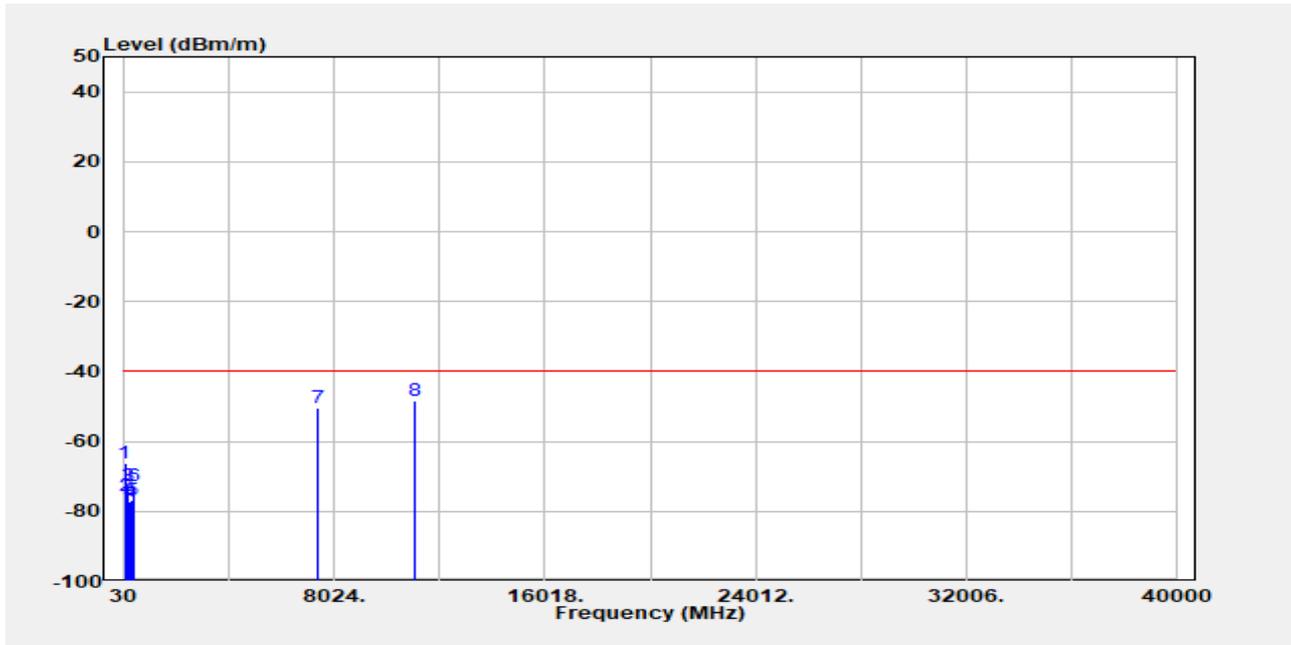
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Report Number :TERF2407002105ER
 Operation Mode :LTE B48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3695 MHz

Test Site :SAC 3
 Test Date :2024-10-21
 Temp./Humi. :26.1°C/57%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-66.22	-51.81	-13.25	-1.16	-40.00	-26.21
71.71	-75.56	-67.78	-6.23	-1.55	-40.00	-35.56
142.52	-72.58	-68.56	-1.84	-2.18	-40.00	-32.58
232.73	-77.30	-78.83	4.32	-2.79	-40.00	-37.30
275.41	-76.64	-77.27	3.67	-3.04	-40.00	-36.63
372.41	-72.85	-73.43	4.10	-3.52	-40.00	-32.85
7390.00	-50.25	-44.82	10.90	-16.33	-40.00	-10.25
11085.00	-48.33	-39.54	11.34	-20.13	-40.00	-8.33

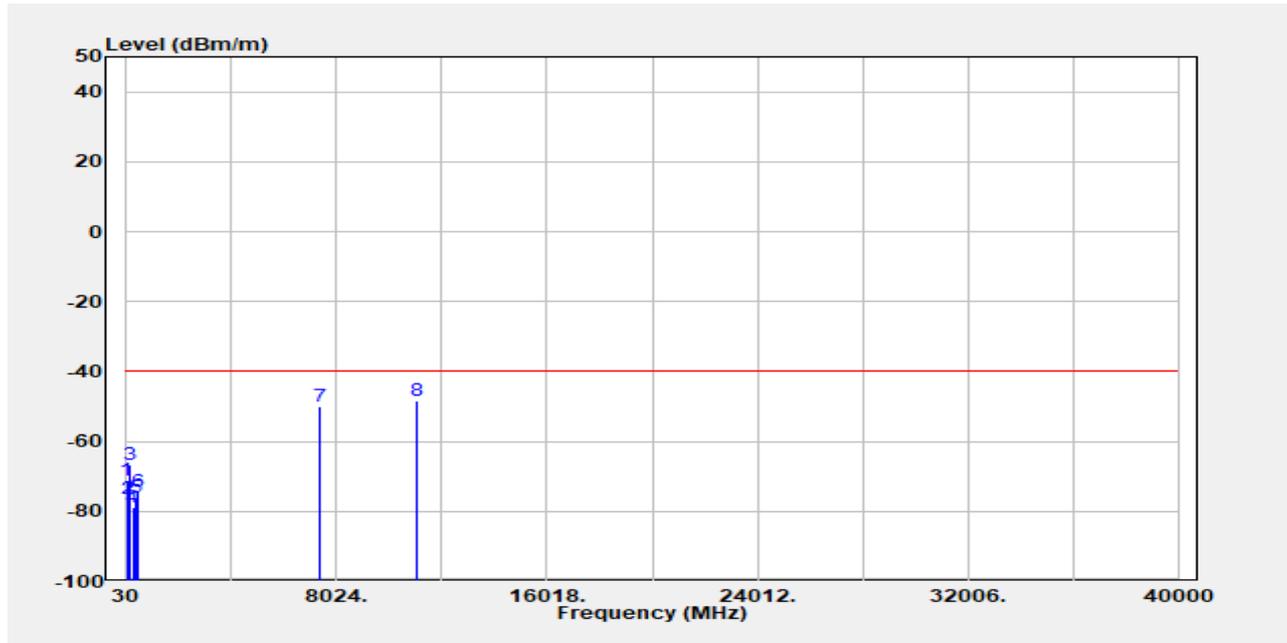
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Report Number :TERF2407002105ER
 Operation Mode :LTE B48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3695 MHz

Test Site :SAC 3
 Test Date :2024-10-21
 Temp./Humi. :26.1°C/57%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-70.94	-56.39	-13.43	-1.12	-40.00	-30.94
70.74	-76.37	-68.38	-6.45	-1.54	-40.00	-36.37
154.16	-66.72	-62.97	-1.48	-2.27	-40.00	-26.72
269.59	-78.82	-79.66	3.85	-3.01	-40.00	-38.83
375.32	-75.92	-76.43	4.05	-3.54	-40.00	-35.91
426.73	-74.36	-74.57	3.98	-3.77	-40.00	-34.36
7390.00	-50.02	-44.59	10.90	-16.33	-40.00	-10.02
11085.00	-48.20	-39.41	11.34	-20.13	-40.00	-8.20

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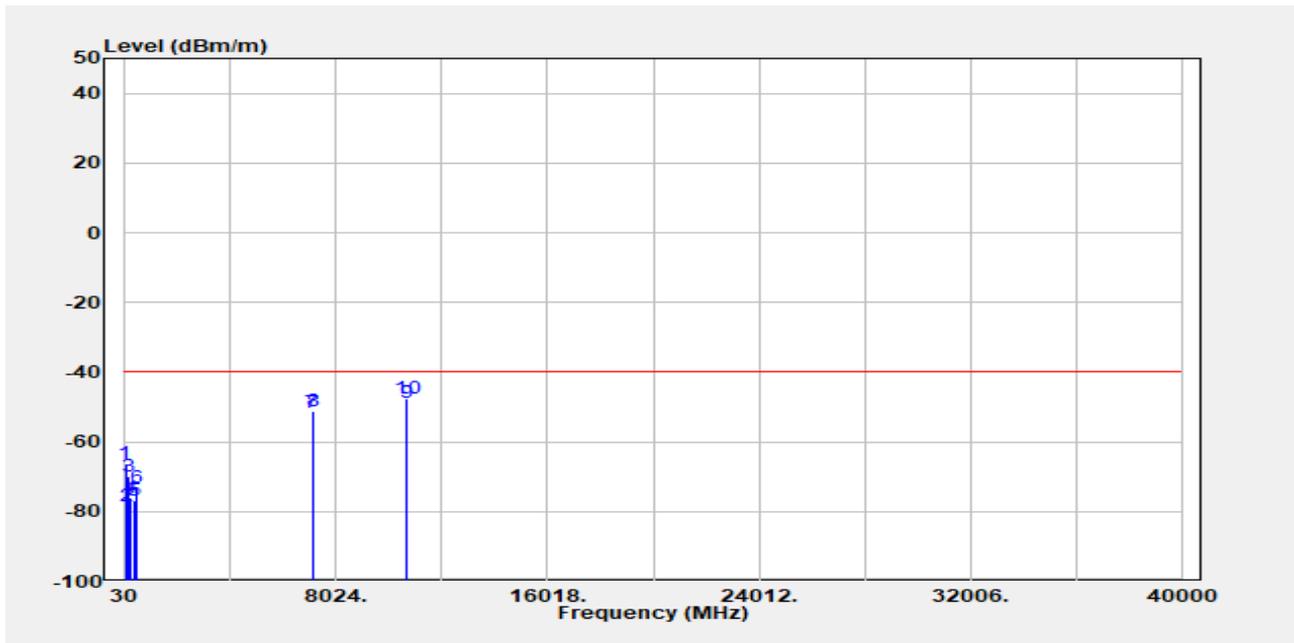
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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3553.3_3565 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-66.16	-51.96	-13.03	-1.17	-40.00	-26.16
72.680	-78.31	-70.93	-5.82	-1.56	-40.00	-38.31
145.430	-69.91	-65.99	-1.72	-2.20	-40.00	-29.91
228.850	-75.94	-77.96	4.78	-2.76	-40.00	-35.94
354.950	-76.80	-77.65	4.28	-3.43	-40.00	-36.80
455.830	-72.99	-72.94	3.84	-3.89	-40.00	-32.99
7106.600	-51.79	-46.78	10.99	-16.00	-40.00	-11.79
7130.000	-51.40	-46.32	10.94	-16.02	-40.00	-11.40
10659.900	-48.76	-40.49	11.42	-19.69	-40.00	-8.76
10695.000	-47.52	-39.27	11.49	-19.74	-40.00	-7.52

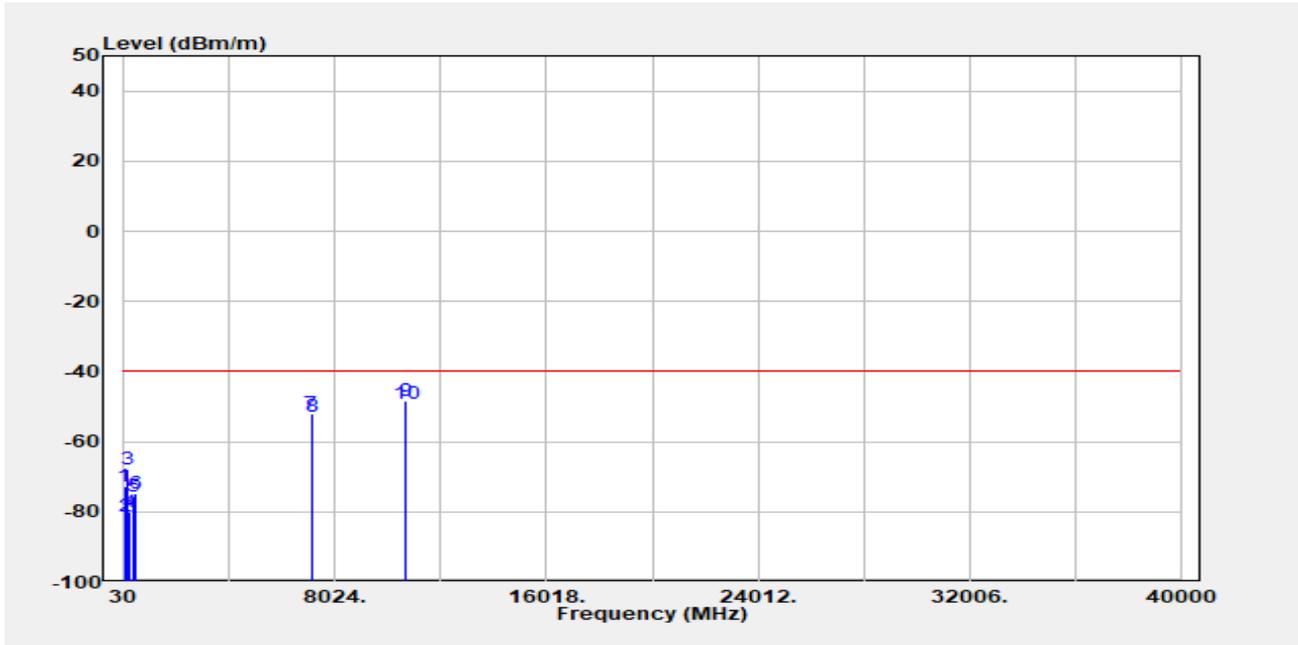
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Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3553.3_3565 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.700	-72.73	-58.32	-13.25	-1.16	-40.00	-32.73
94.990	-81.13	-78.58	-0.77	-1.78	-40.00	-41.13
150.280	-67.72	-63.80	-1.68	-2.24	-40.00	-27.72
256.980	-80.09	-80.93	3.78	-2.94	-40.00	-40.09
368.530	-75.77	-76.44	4.17	-3.50	-40.00	-35.77
490.750	-74.63	-74.57	3.98	-4.04	-40.00	-34.63
7106.600	-52.11	-47.10	10.99	-16.00	-40.00	-12.11
7130.000	-52.95	-47.87	10.94	-16.02	-40.00	-12.95
10659.900	-48.18	-39.91	11.42	-19.69	-40.00	-8.18
10695.000	-49.06	-40.81	11.49	-19.74	-40.00	-9.06

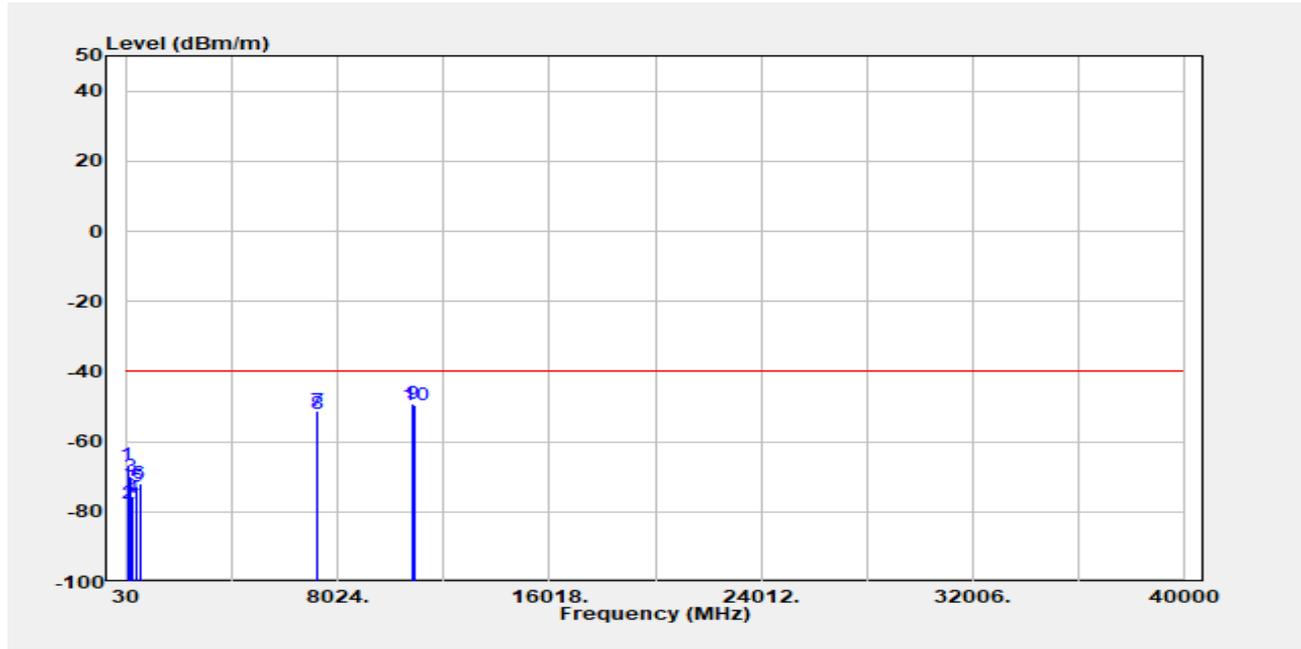
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Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3615.8_3627.5 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-66.75	-52.55	-13.03	-1.17	-40.00	-26.75
72.680	-77.72	-70.34	-5.82	-1.56	-40.00	-37.72
145.430	-70.08	-66.16	-1.72	-2.20	-40.00	-30.08
226.910	-76.00	-78.15	4.90	-2.75	-40.00	-36.00
378.230	-72.95	-73.41	4.01	-3.55	-40.00	-32.95
498.510	-72.02	-71.98	4.03	-4.07	-40.00	-32.02
7231.600	-51.21	-45.92	10.84	-16.13	-40.00	-11.21
7255.000	-51.87	-46.52	10.81	-16.16	-40.00	-11.87
10847.400	-49.15	-40.43	11.20	-19.92	-40.00	-9.15
10882.500	-49.42	-40.62	11.14	-19.94	-40.00	-9.42

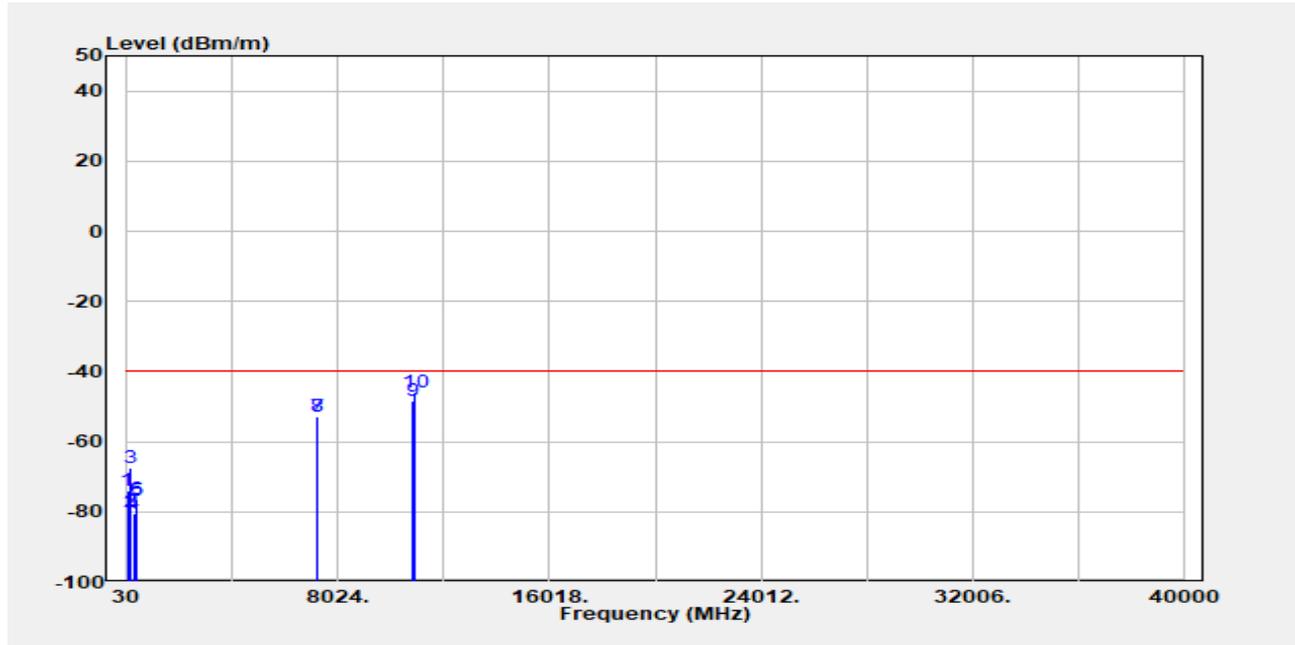
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Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3615.8_3627.5 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-73.93	-59.73	-13.03	-1.17	-40.00	-33.93
121.180	-80.12	-76.63	-1.47	-2.02	-40.00	-40.12
150.280	-67.47	-63.55	-1.68	-2.24	-40.00	-27.47
270.560	-80.55	-81.33	3.79	-3.01	-40.00	-40.55
365.620	-76.98	-77.71	4.22	-3.49	-40.00	-36.98
405.390	-76.52	-76.79	3.94	-3.67	-40.00	-36.52
7231.600	-53.00	-47.71	10.84	-16.13	-40.00	-13.00
7255.000	-52.66	-47.31	10.81	-16.16	-40.00	-12.66
10847.400	-48.33	-39.61	11.20	-19.92	-40.00	-8.33
10882.500	-46.14	-37.34	11.14	-19.94	-40.00	-6.14

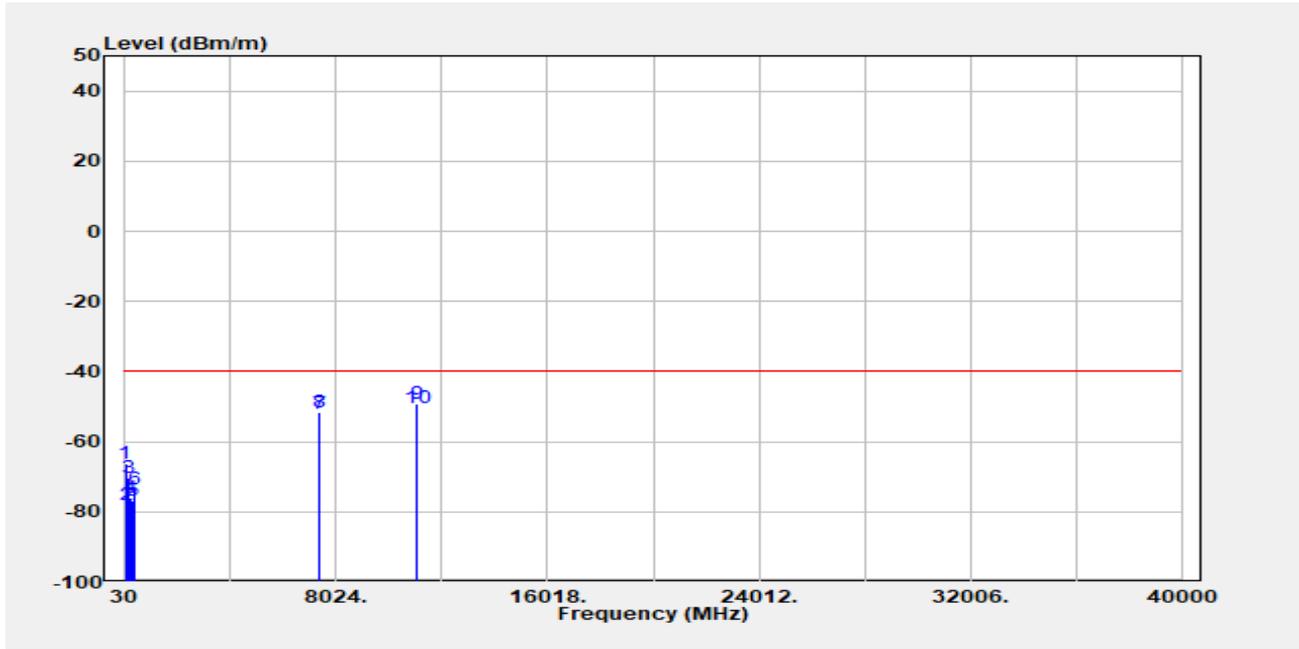
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Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3678.3_3690 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-66.40	-52.20	-13.03	-1.17	-40.00	-26.40
71.710	-78.14	-70.36	-6.23	-1.55	-40.00	-38.14
144.460	-70.35	-66.33	-1.82	-2.20	-40.00	-30.35
224.970	-76.14	-78.42	5.02	-2.74	-40.00	-36.14
276.380	-76.74	-77.38	3.68	-3.04	-40.00	-36.74
378.230	-73.56	-74.02	4.01	-3.55	-40.00	-33.56
7356.600	-51.88	-46.49	10.90	-16.29	-40.00	-11.88
7380.000	-51.45	-46.03	10.90	-16.32	-40.00	-11.45
11034.900	-49.34	-40.45	11.17	-20.06	-40.00	-9.34
11070.000	-50.49	-41.66	11.28	-20.11	-40.00	-10.49

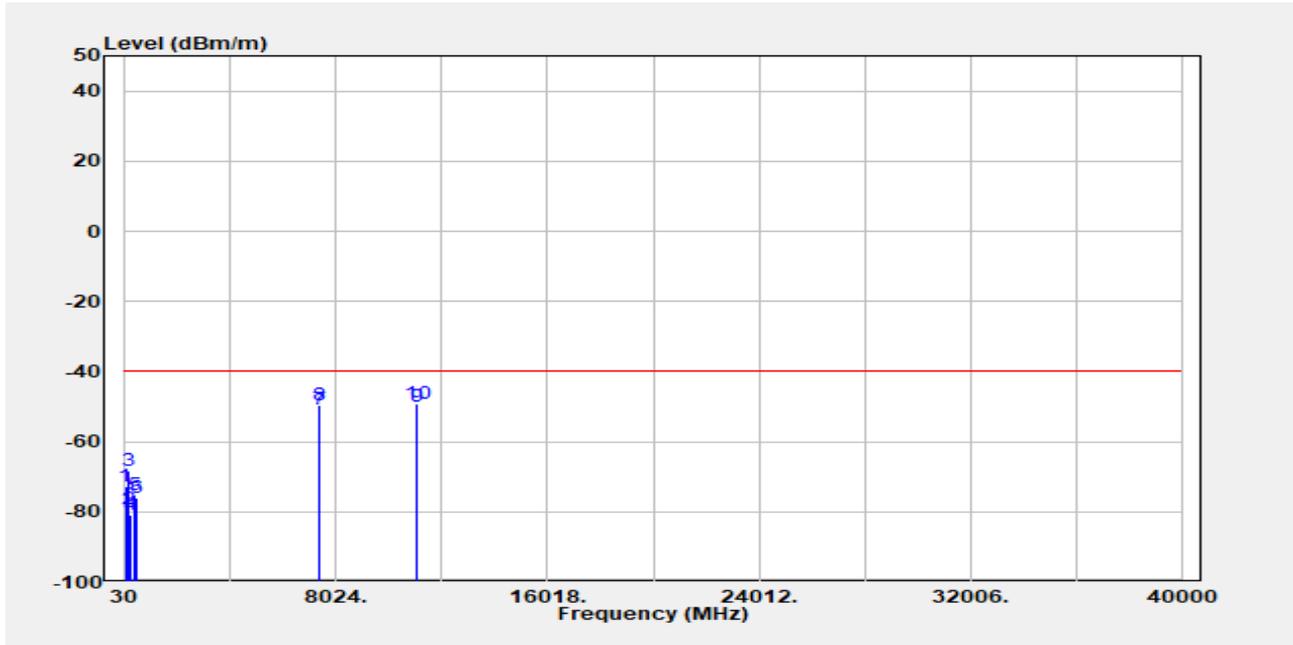
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Report Number :TERF2407002105ER
 Operation Mode :ULCA_48C
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3678.3_3690 MHz

Test Site :SAC 3
 Test Date :2024-11-05
 Temp./Humi. :25.1°C/53%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.730	-72.59	-58.04	-13.41	-1.14	-40.00	-32.59
122.150	-79.28	-75.74	-1.51	-2.03	-40.00	-39.28
149.310	-68.19	-64.36	-1.60	-2.23	-40.00	-28.19
258.920	-80.84	-81.73	3.84	-2.95	-40.00	-40.84
380.170	-75.11	-75.53	3.98	-3.56	-40.00	-35.11
463.590	-75.97	-75.87	3.83	-3.93	-40.00	-35.97
7356.600	-50.96	-45.57	10.90	-16.29	-40.00	-10.96
7380.000	-49.46	-44.04	10.90	-16.32	-40.00	-9.46
11034.900	-50.12	-41.23	11.17	-20.06	-40.00	-10.12
11070.000	-49.00	-40.17	11.28	-20.11	-40.00	-9.00

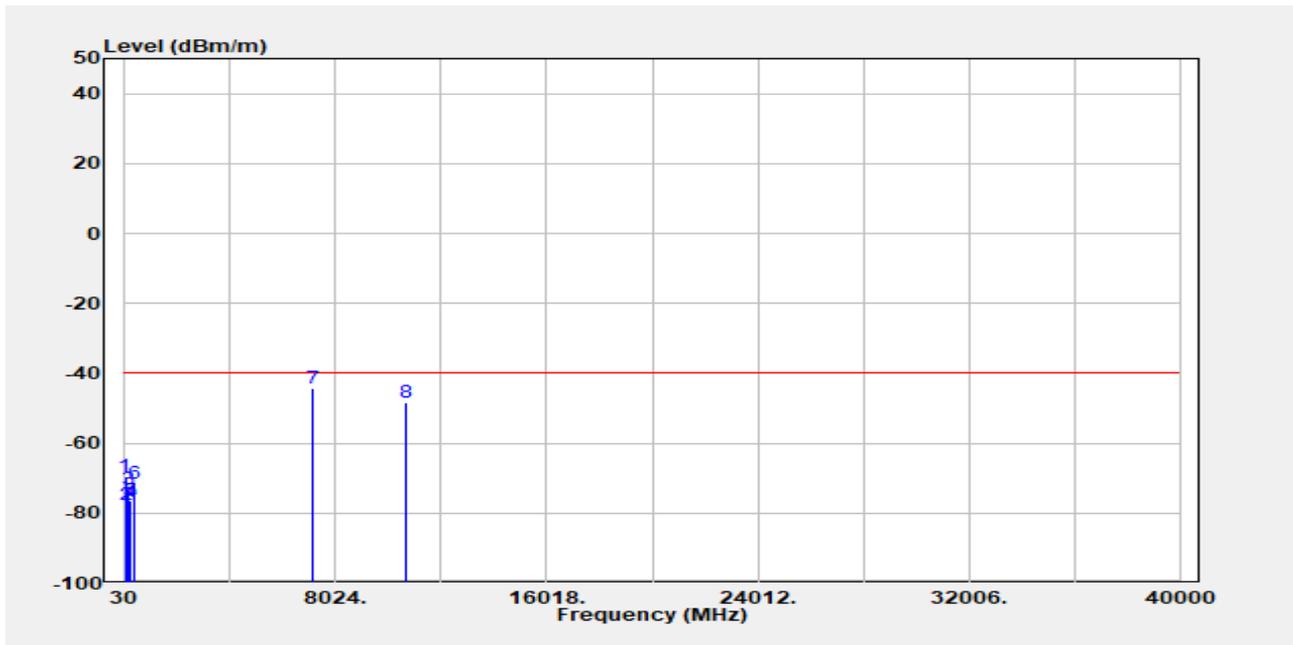
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Report Number :TERF2407002105ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3570 MHz

Test Site :SAC 3
 Test Date :2024-10-25
 Temp./Humi. :26.2°C/58%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-69.44	-55.24	-13.03	-1.17	-40.00	-29.44
92.080	-77.47	-74.86	-0.85	-1.76	-40.00	-37.47
151.250	-73.21	-69.33	-1.63	-2.25	-40.00	-33.21
227.880	-76.98	-79.06	4.84	-2.76	-40.00	-36.98
266.680	-76.38	-77.49	4.10	-2.99	-40.00	-36.38
374.350	-71.39	-71.93	4.07	-3.53	-40.00	-31.39
7140.000	-44.24	-39.13	10.92	-16.03	-40.00	-4.24
10710.000	-48.25	-39.95	11.46	-19.76	-40.00	-8.25

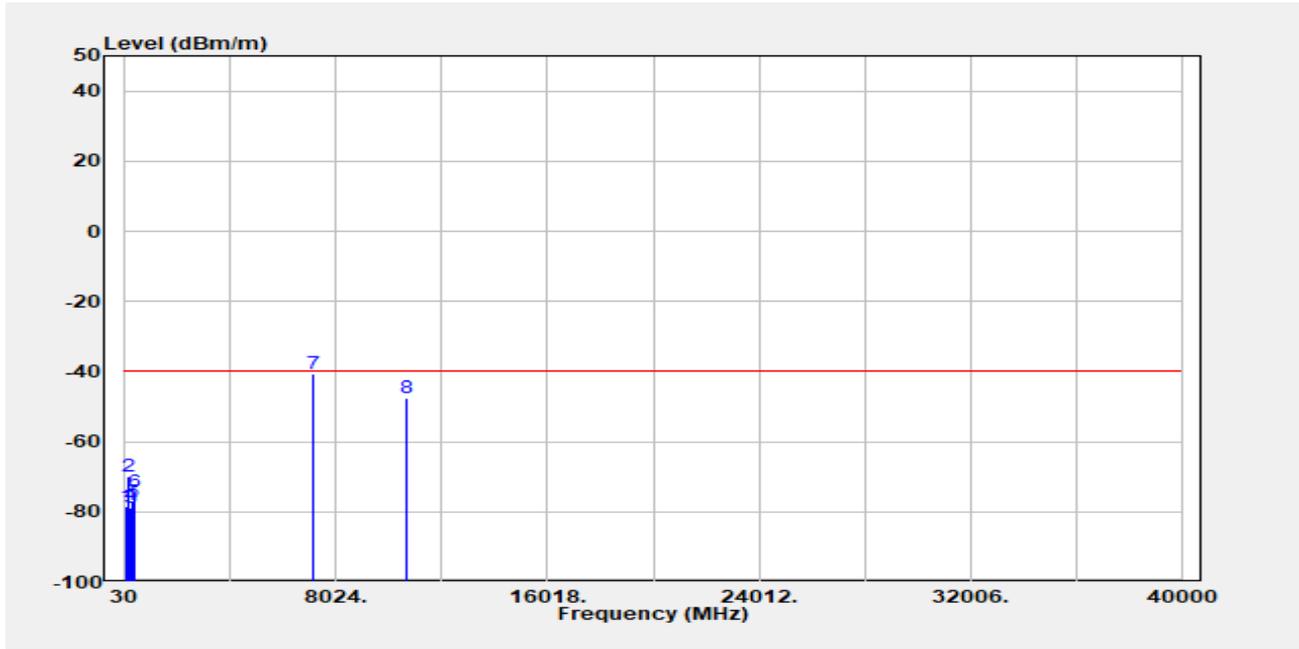
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Report Number :TERF2407002105ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3570 MHz

Test Site :SAC 3
 Test Date :2024-10-25
 Temp./Humi. :26.2°C/58%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-78.58	-69.30	-7.80	-1.48	-40.00	-38.58
159.010	-69.78	-66.29	-1.19	-2.30	-40.00	-29.78
225.940	-78.86	-81.07	4.96	-2.75	-40.00	-38.86
270.560	-77.87	-78.65	3.79	-3.01	-40.00	-37.87
332.640	-77.30	-77.84	3.87	-3.33	-40.00	-37.30
375.320	-74.45	-74.96	4.05	-3.54	-40.00	-34.45
7140.000	-40.50	-35.39	10.92	-16.03	-40.00	-0.50
10710.000	-47.37	-39.07	11.46	-19.76	-40.00	-7.37

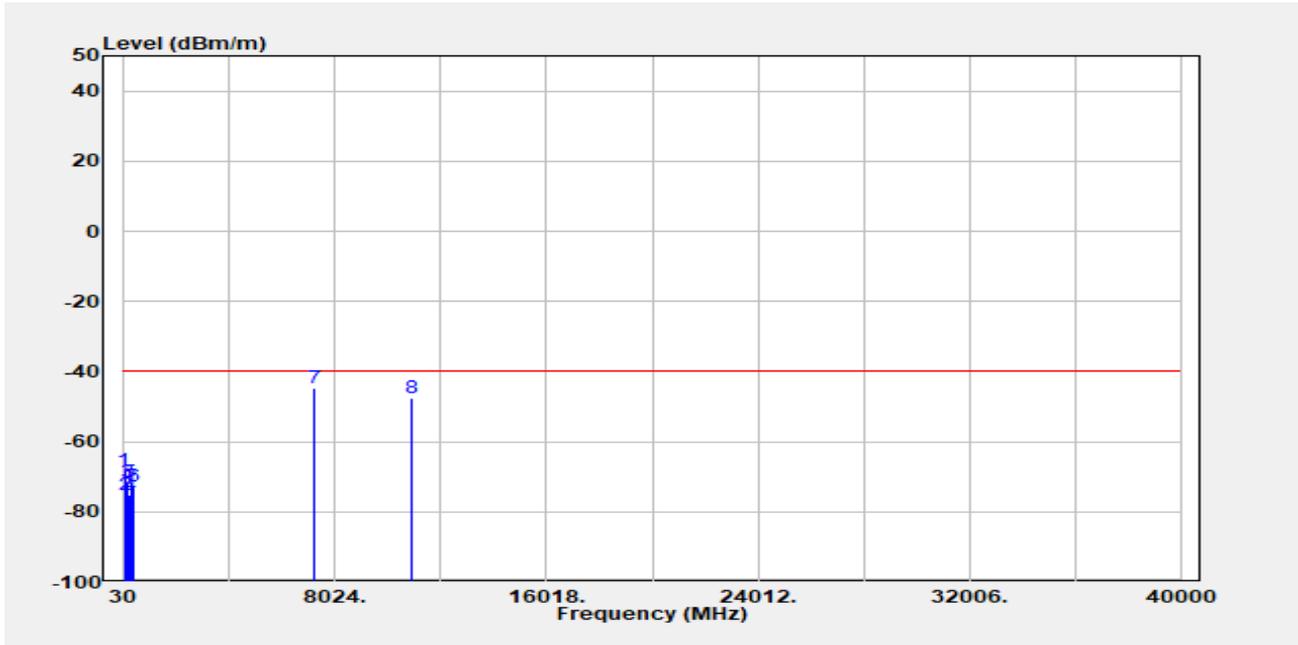
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Report Number :TERF2407002105ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3624.99 MHz

Test Site :SAC 3
 Test Date :2024-10-25
 Temp./Humi. :26.2°C/58%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-68.36	-54.16	-13.03	-1.17	-40.00	-28.36
68.800	-75.02	-66.43	-7.07	-1.52	-40.00	-35.02
151.250	-71.35	-67.47	-1.63	-2.25	-40.00	-31.35
216.240	-75.02	-76.91	4.58	-2.69	-40.00	-35.02
270.560	-71.34	-72.12	3.79	-3.01	-40.00	-31.34
380.170	-72.70	-73.12	3.98	-3.56	-40.00	-32.70
7249.980	-44.90	-39.55	10.80	-16.15	-40.00	-4.90
10874.970	-47.58	-38.80	11.15	-19.93	-40.00	-7.58

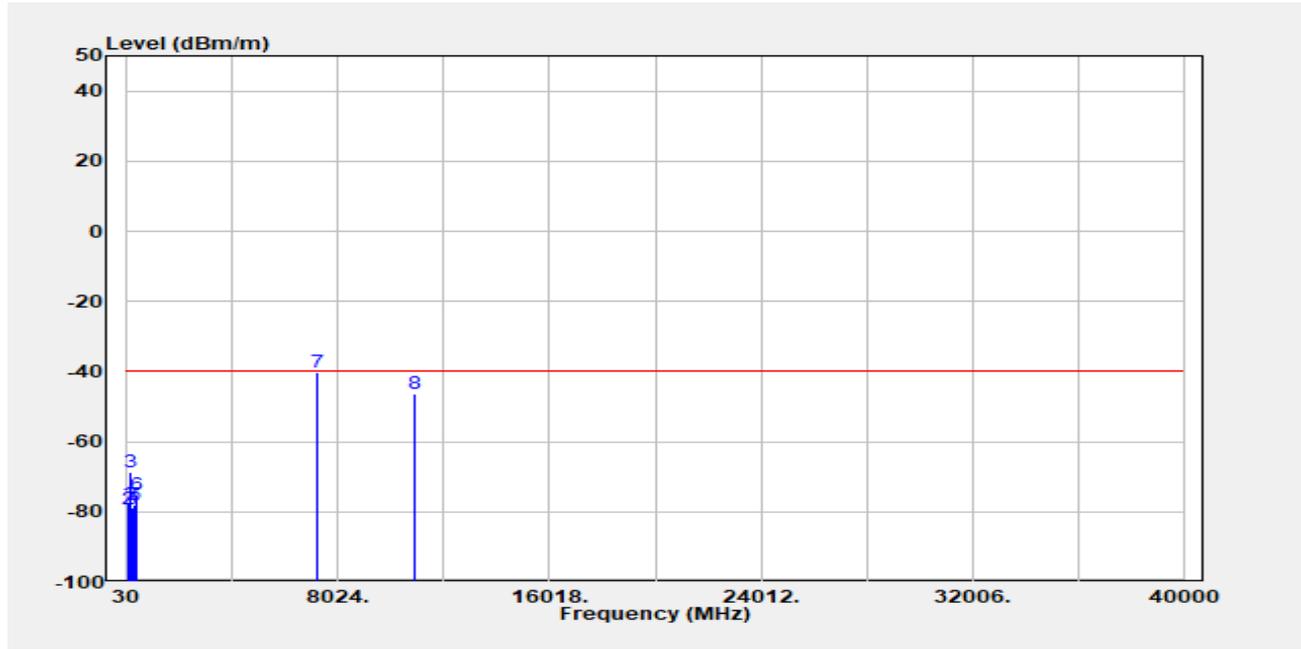
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Report Number :TERF2407002105ER
Operation Mode :NR_n48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3624.99 MHz

Test Site :SAC 3
Test Date :2024-10-25
Temp./Humi. :26.2°C/58%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
64.920	-77.75	-67.90	-8.38	-1.47	-40.00	-37.75
94.990	-79.18	-76.63	-0.77	-1.78	-40.00	-39.18
159.010	-68.70	-65.21	-1.19	-2.30	-40.00	-28.70
224.970	-78.84	-81.12	5.02	-2.74	-40.00	-38.84
273.470	-78.03	-78.71	3.71	-3.03	-40.00	-38.03
368.530	-75.11	-75.78	4.17	-3.50	-40.00	-35.11
7249.980	-40.41	-35.06	10.80	-16.15	-40.00	-0.41
10874.970	-46.26	-37.48	11.15	-19.93	-40.00	-6.26

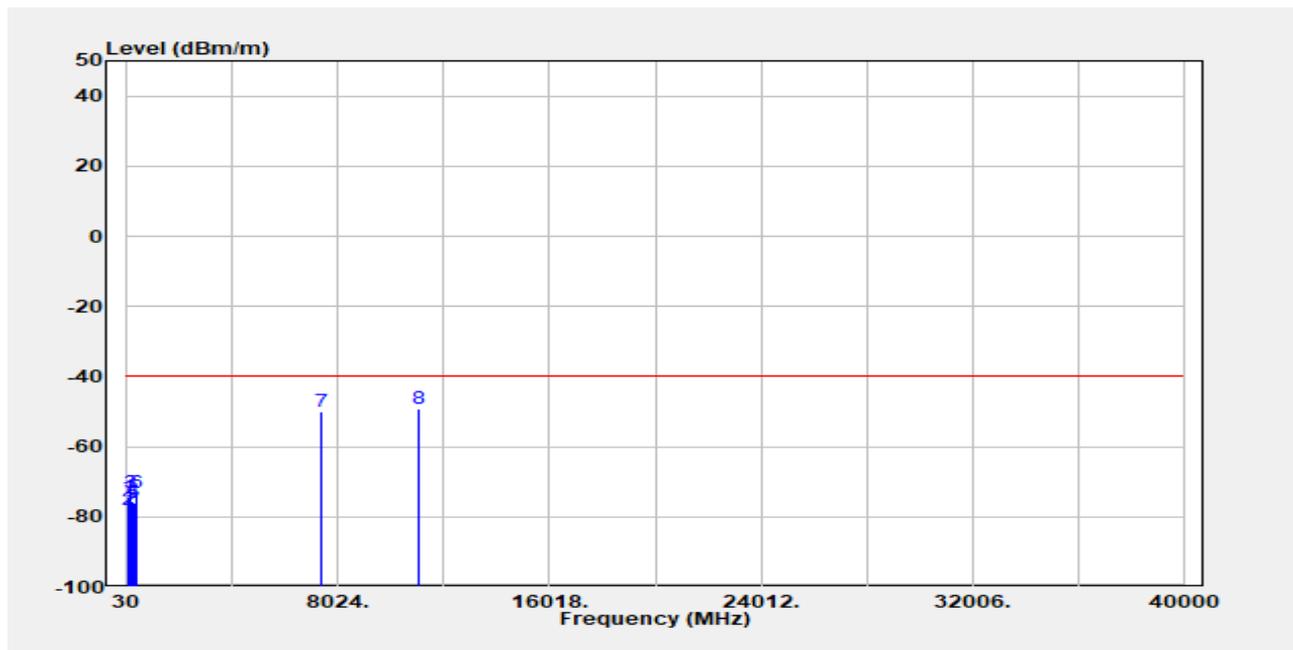
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Report Number :TERF2407002105ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3679.98 MHz

Test Site :SAC 3
 Test Date :2024-10-25
 Temp./Humi. :26.2°C/58%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.800	-74.46	-65.87	-7.07	-1.52	-40.00	-34.46
91.110	-77.96	-75.37	-0.84	-1.75	-40.00	-37.96
150.280	-73.21	-69.29	-1.68	-2.24	-40.00	-33.21
230.790	-75.43	-77.26	4.60	-2.77	-40.00	-35.43
269.590	-75.92	-76.76	3.85	-3.01	-40.00	-35.92
374.350	-73.17	-73.71	4.07	-3.53	-40.00	-33.17
7359.960	-50.17	-44.78	10.90	-16.29	-40.00	-10.17
11039.940	-49.07	-40.18	11.18	-20.07	-40.00	-9.07

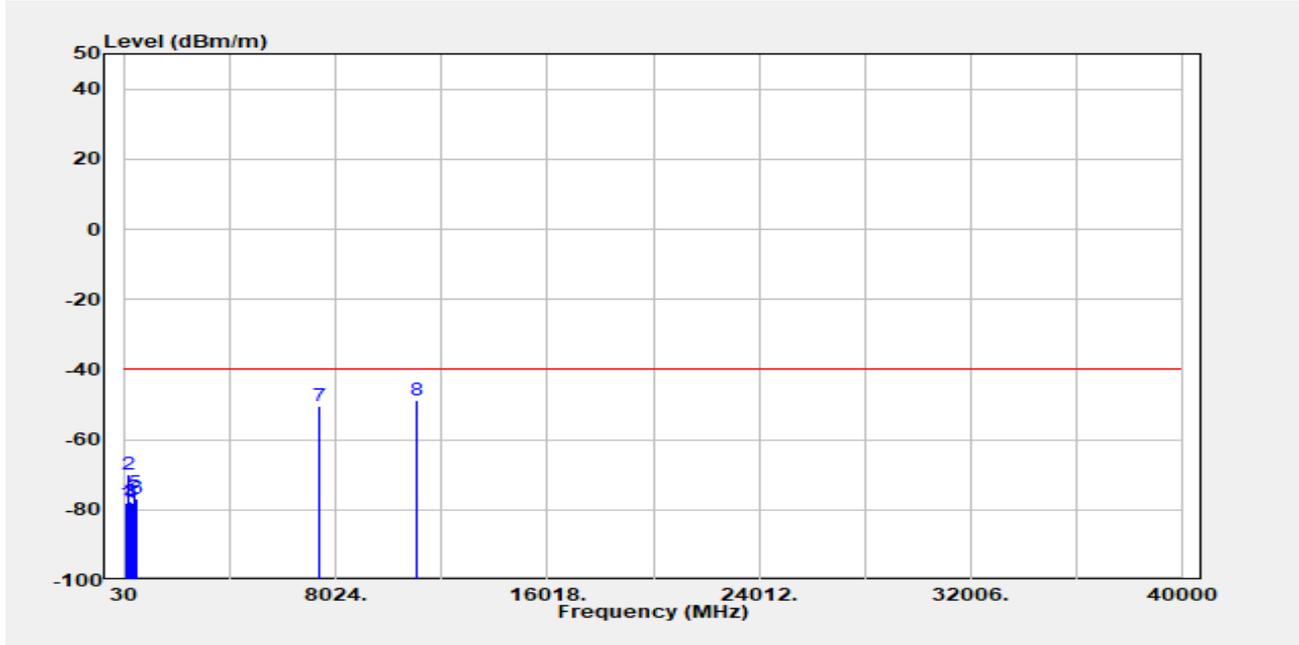
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 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3679.98 MHz

Test Site :SAC 3
 Test Date :2024-10-25
 Temp./Humi. :26.2°C/58%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.800	-78.09	-69.50	-7.07	-1.52	-40.00	-38.09
159.010	-69.92	-66.43	-1.19	-2.30	-40.00	-29.92
224.970	-77.48	-79.76	5.02	-2.74	-40.00	-37.48
269.590	-78.18	-79.02	3.85	-3.01	-40.00	-38.18
374.350	-75.03	-75.57	4.07	-3.53	-40.00	-35.03
463.590	-76.76	-76.66	3.83	-3.93	-40.00	-36.76
7359.960	-50.34	-44.95	10.90	-16.29	-40.00	-10.34
11039.940	-48.70	-39.81	11.18	-20.07	-40.00	-8.70

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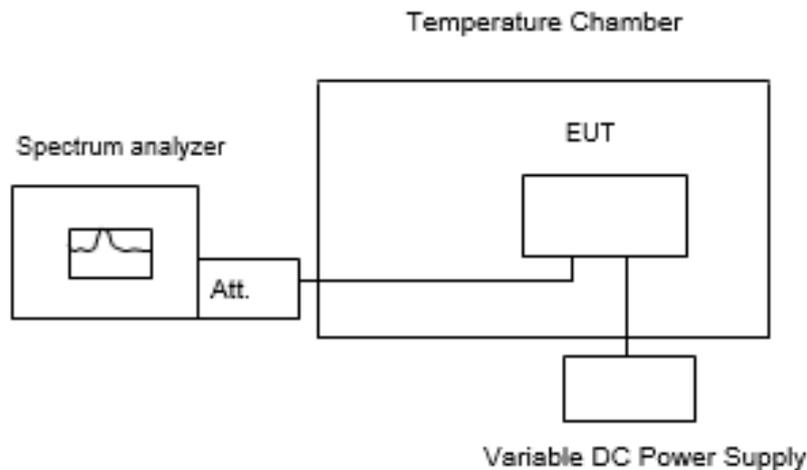
12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicabl

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 $\pm 0.00025\%$ (± 2.5 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 $+50^{\circ}\text{C}$ 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 ($\pm 15\%$) and endpoint as declared by the manufacturer, record the maximum frequency change.

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12.4 Measurement Result

Note: The battery is rated 7.8V dc.

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					
8.97	20	3624.999988	-0.0033	+/- 2.5 ppm	
7.8	20	3625.000011	0.0030		
6.63	20	3625.000008	0.0023		
5.1 (End Point)	20	3624.999991	-0.0025		
Freq. ERROR vs. Temp.					
7.8	-30	3625.000004	0.0011	+/- 2.5 ppm	
7.8	-20	3625.000013	0.0036		
7.8	-10	3624.999995	-0.0013		
7.8	0	3625.000003	0.0008		
7.8	10	3625.000013	0.0035		
7.8	20	3624.999996	-0.0011		
7.8	30	3625.000012	0.0032		
7.8	40	3625.000007	0.0019		
7.8	50	3624.999995	-0.0015		

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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			
8.97	20	3624.999992	-0.0022
7.8	20	3625.000012	0.0033
6.63	20	3624.999990	-0.0029
5.1	20	3625.000010	0.0027
(End Point)			
Freq. ERROR vs. Temp.			
7.8	-30	3624.999992	-7.9000
7.8	-20	3625.000004	4.4000
7.8	-10	3624.999987	-12.8000
7.8	0	3625.000006	6.2000
7.8	10	3625.000013	13.0000
7.8	20	3624.999991	-9.2000
7.8	30	3624.999987	-13.1000
7.8	40	3624.999991	-9.3000
7.8	50	3624.999992	-7.8000

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5G NR BAND n48 Part96				
Reference Freq.:		Modulation.:		CP-OFDM QPSK
SCS.:	30 kHz	Bandwidth:		40MHz
CH	641666	Frequency(MHz):		3624.99
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
8.97	20	3624.989997	-3	9062
7.8	20	3624.989987	-13	9062
6.63	20	3624.990008	8	9062
5.1 (End Point)	20	3624.990001	1	9062
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
7.8	-30	3624.990011	11	9062
7.8	-20	3624.990010	10	9062
7.8	-10	3624.989997	-3	9062
7.8	0	3624.990001	1	9062
7.8	10	3624.989986	-14	9062
7.8	20	3624.990000	0	9062
7.8	30	3624.989983	-17	9062
7.8	40	3624.990019	19	9062
7.8	50	3624.989986	-14	9062

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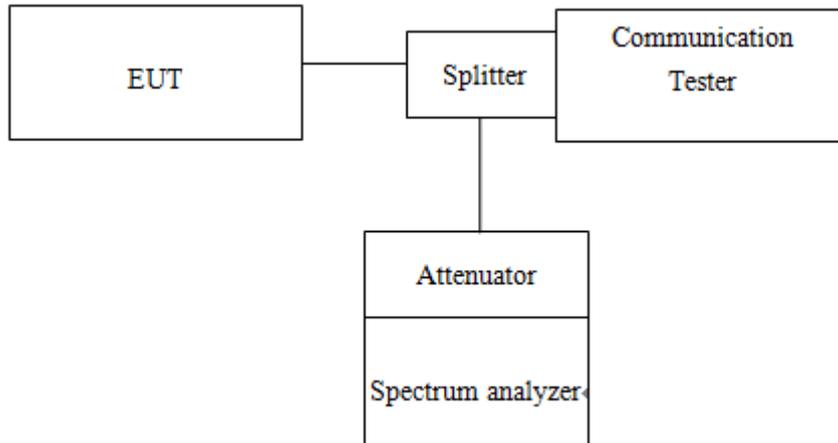
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13 PEAK TO AVERAGE RATIO

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.

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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	6.64	13	3555.0	55290	6.50	13
3625.0	55990	6.94	13	3625.0	55990	6.69	13
3697.5	56715	7.48	13	3695.0	56690	9.65	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	6.71	13	3650.0	55340	6.77	13
3625.0	55990	6.30	13	3625.0	55990	6.64	13
3692.5	56665	6.33	13	3690.0	56640	6.63	13

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	7.17	13
LTE BAND 48C	20MHz + 5MHz	100/0 + 25/0	3625.0	7.78	13
LTE BAND 48C	10MHz + 20MHz	50/0 + 100/0	3625.0	7.29	13
LTE BAND 48C	20MHz + 10MHz	100/0 + 50/0	3625.0	9.8	13
LTE BAND 48C	15MHz + 20MHz	75/0 + 100/0	3625.0	7.99	13
LTE BAND 48C	20MHz + 15MHz	100/0 + 75/0	3625.0	9.57	13
LTE BAND 48C	20MHz + 20MHz	100/0 + 100/0	3625.0	9.53	13

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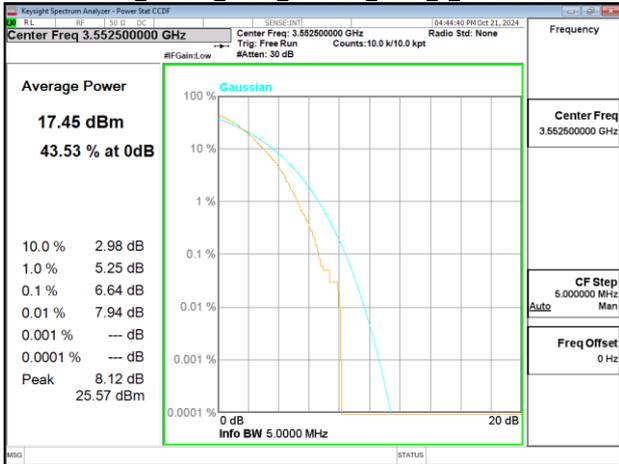
5G NR BAND n48(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 10MHz				Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
3555.00	637000	9.18	13	3557.52	637168	9.01	13
3624.99	641666	9.68	13	3624.99	641666	12.72	13
3694.98	646332	9.69	13	3692.49	646166	8.99	13
5G NR BAND n48(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	9.02	13	3565.02	637668	10.55	13
3624.99	641666	9.68	13	3624.99	641666	9.89	13
3690.00	646000	9.84	13	3684.99	645666	9.73	13
5G NR BAND n48(3550 to 3700 MHz)							
DFT-S-OFDM_SCS 30 kHz							
Channel bandwidth: 40MHz							
Freq. (MHz)	CH	PAPR (dB)					
		256QAM	Limit				
3570.00	638000	10.67	13				
3624.99	641666	11.09	13				
3679.98	645332	11.81	13				

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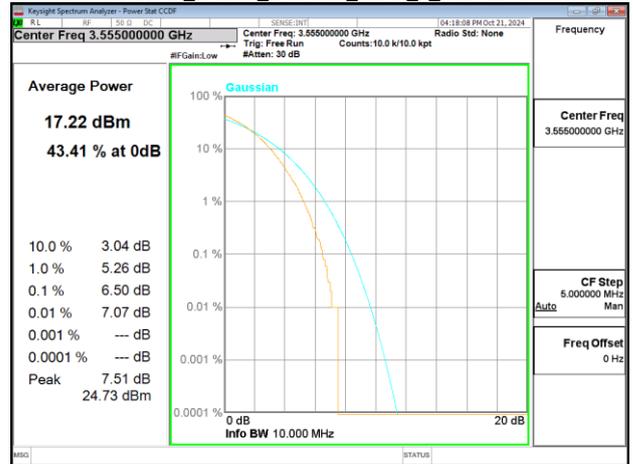
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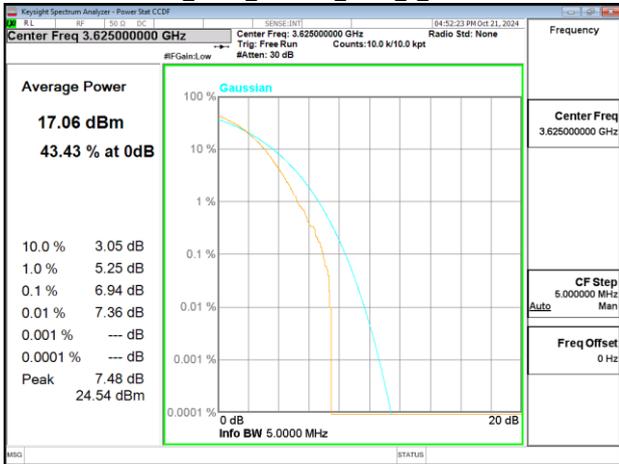
LTE_Band48_5MHz_256QAM_RB25_0_CH55265



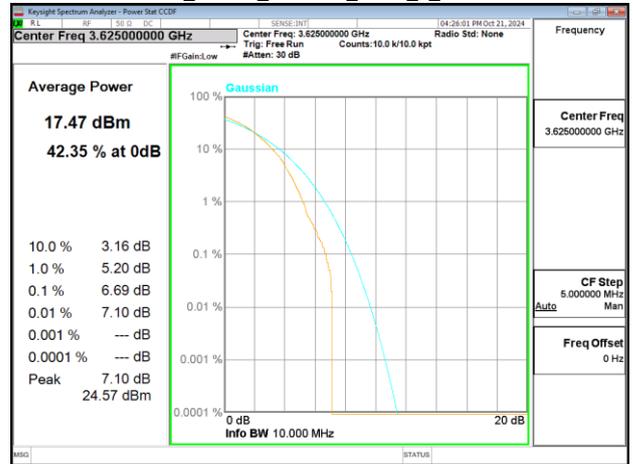
Band48_10MHz_256QAM_RB50_0_CH55290



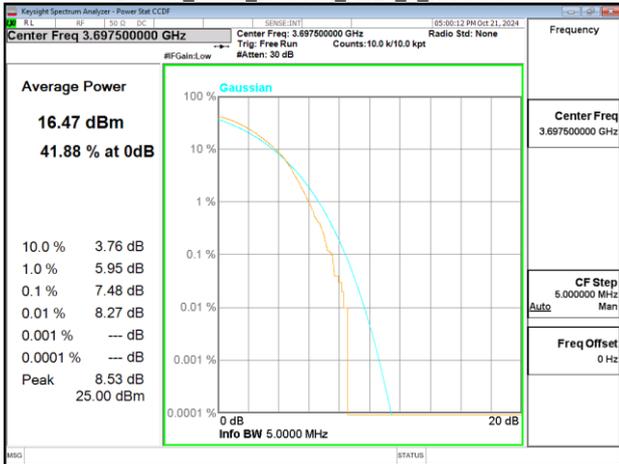
Band48_5MHz_256QAM_RB25_0_CH55990



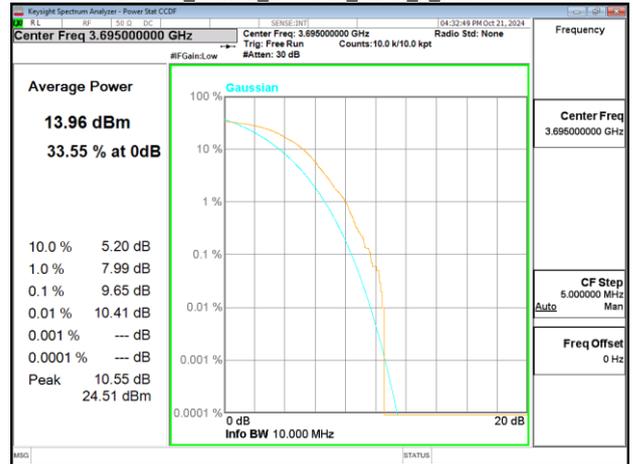
Band48_10MHz_256QAM_RB50_0_CH55990



Band48_5MHz_256QAM_RB25_0_CH56715



Band48_10MHz_256QAM_RB50_0_CH56690

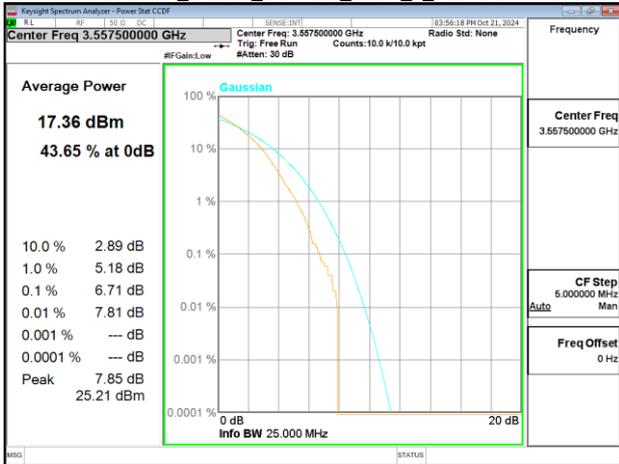


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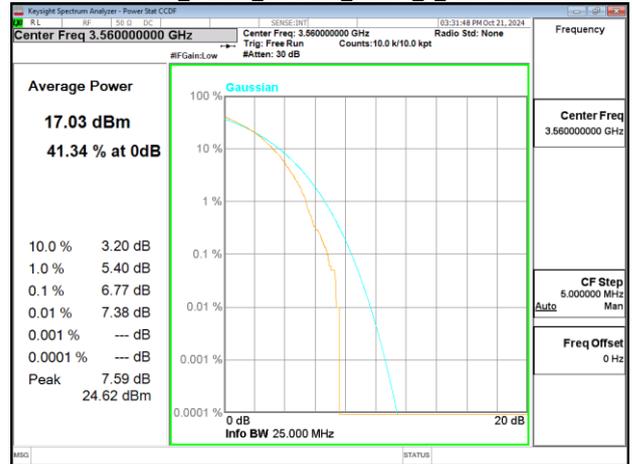
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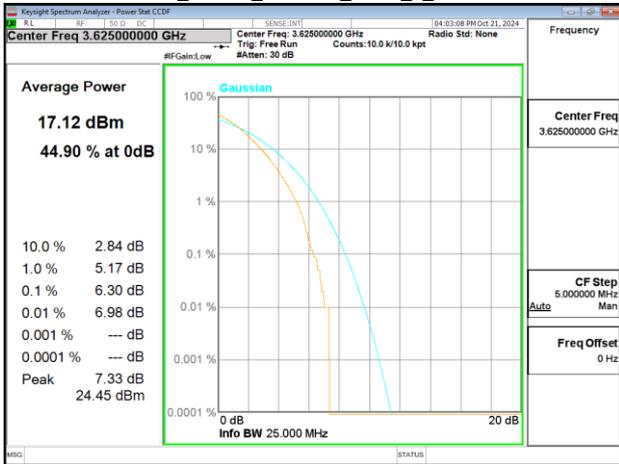
Band48_15MHz_256QAM_RB75_0_CH55315



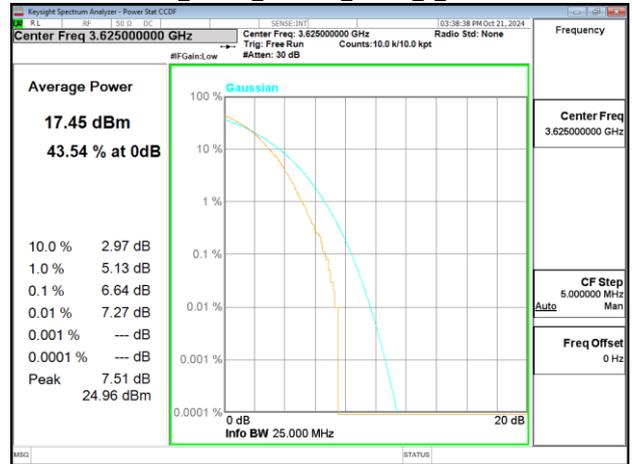
Band48_20MHz_256QAM_RB100_0_CH55340



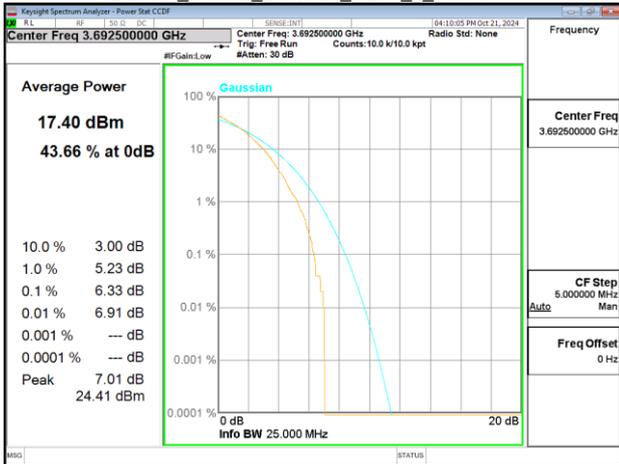
Band48_15MHz_256QAM_RB75_0_CH55990



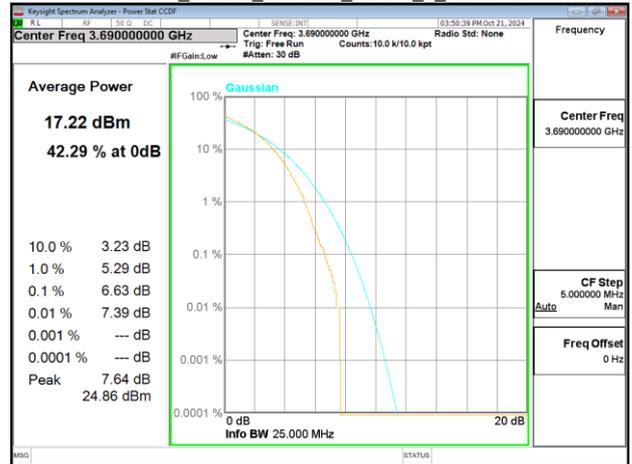
Band48_20MHz_256QAM_RB100_0_CH55990



Band48_15MHz_256QAM_RB75_0_CH56665



Band48_20MHz_256QAM_RB100_0_CH56640

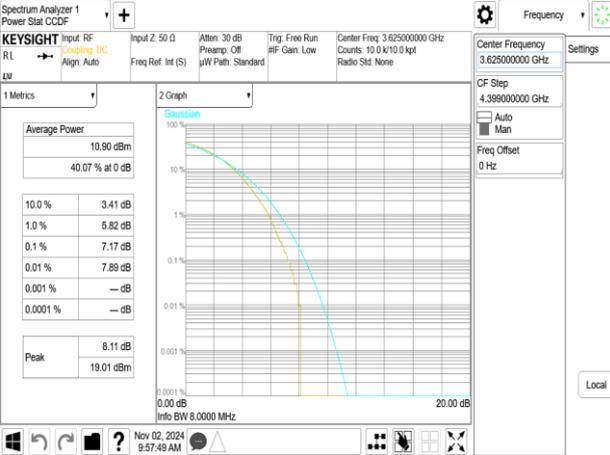


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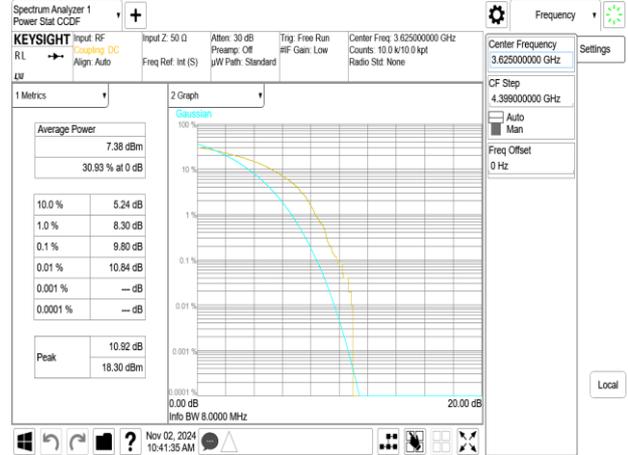
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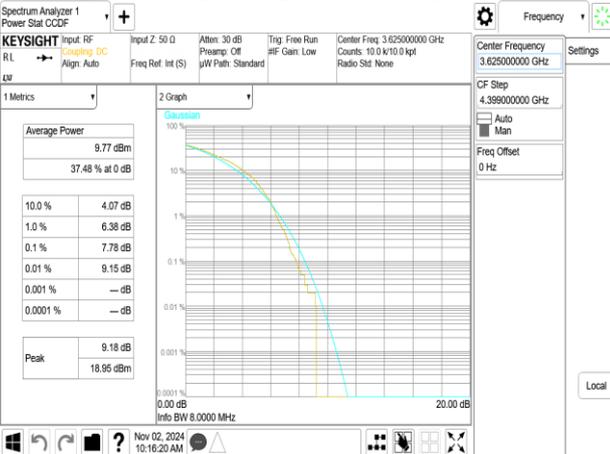
ULCA_Band48_5MHz+20MHz_256QAM_RB25-0+RB100-0_CH55898+CH56015



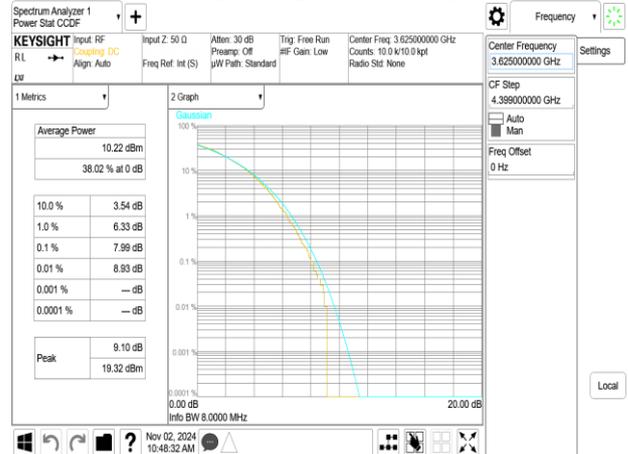
Band48_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH55941+CH56085



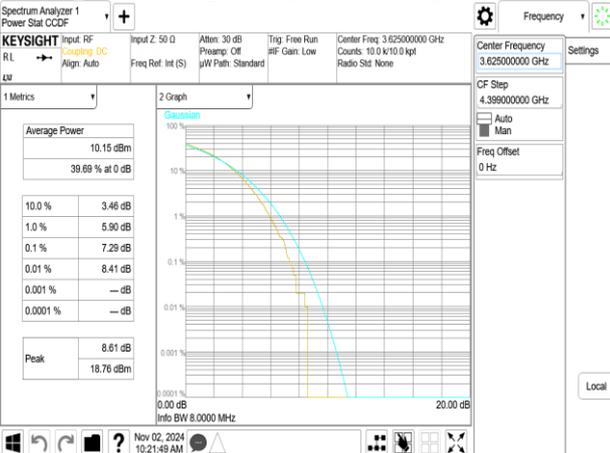
Band48_20MHz+5MHz_256QAM_RB100-0+RB25-0_CH55965+CH56082



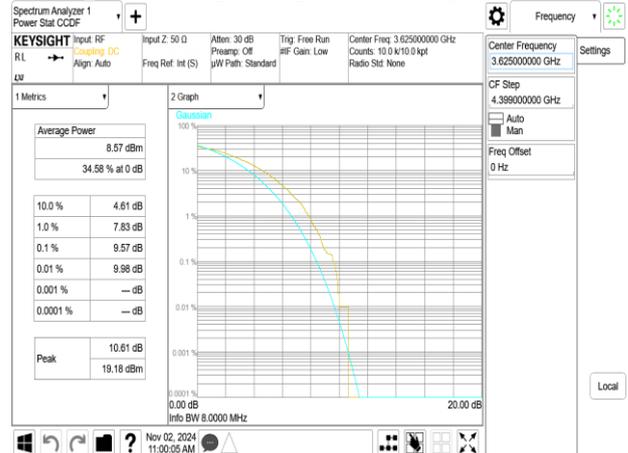
Band48_15MHz+20MHz_256QAM_RB75-0+RB100-0_CH55893+CH56064



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



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

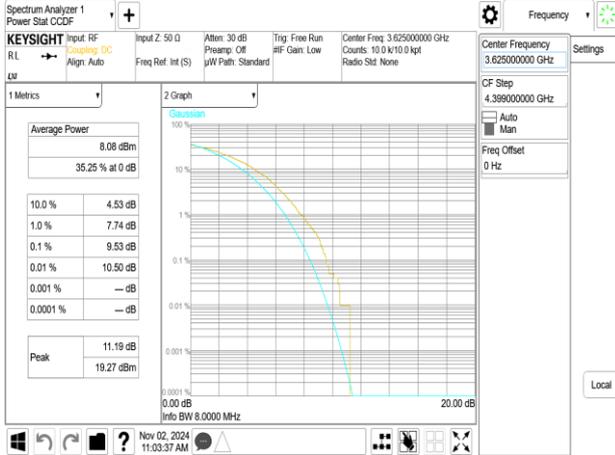


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Band48_20MHz+20MHz_256QAM_RB100-0+RB100-0_CH55891+CH56089

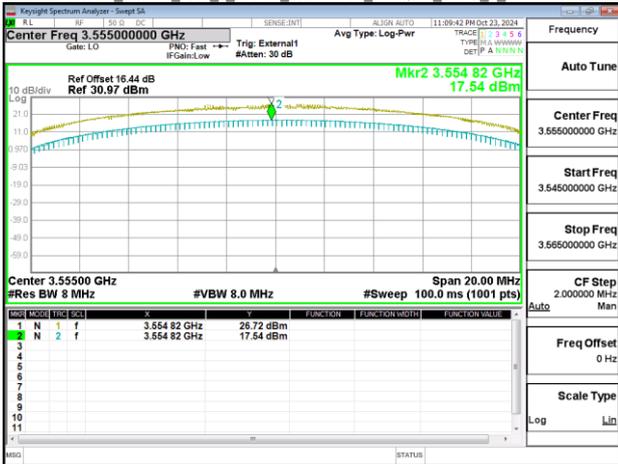


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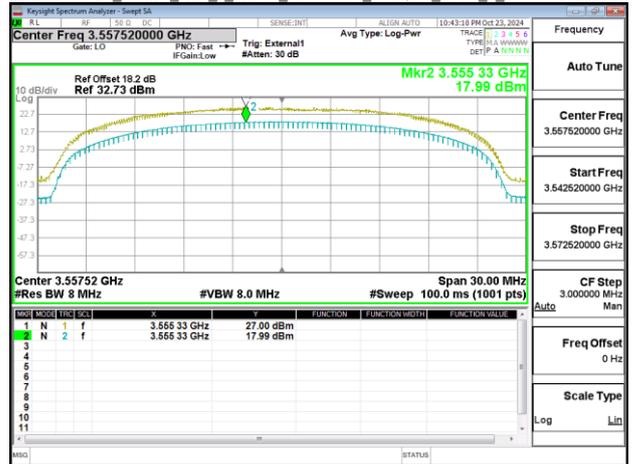
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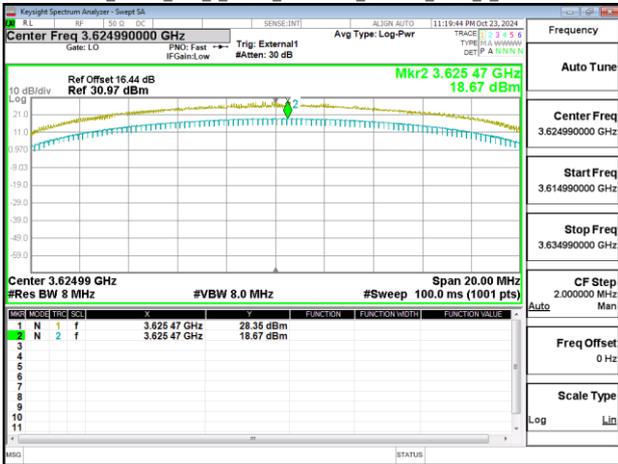
Band48 10MHz DFT s OFDM SCS30kHz 256QAM RB24_0 CH637000



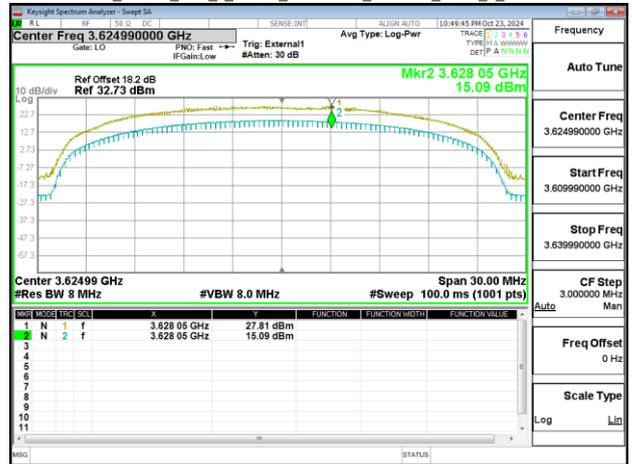
Band48 15MHz DFT s OFDM SCS30kHz 256QAM RB36_0 CH637168



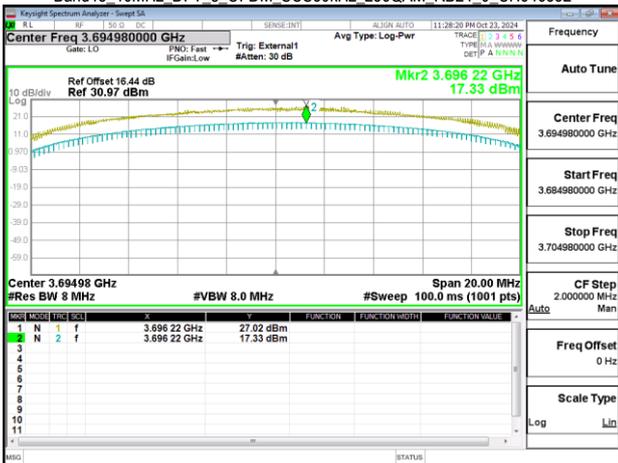
Band48 10MHz DFT s OFDM SCS30kHz 256QAM RB24_0 CH641666



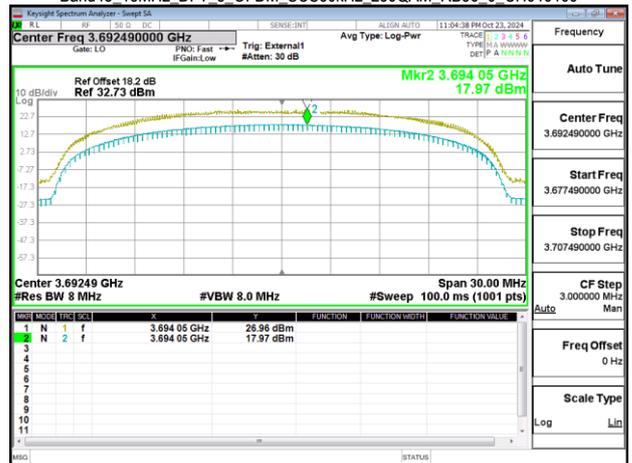
Band48 15MHz DFT s OFDM SCS30kHz 256QAM RB36_0 CH641666



Band48 10MHz DFT s OFDM SCS30kHz 256QAM RB24_0 CH646332



Band48 15MHz DFT s OFDM SCS30kHz 256QAM RB36_0 CH646166



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