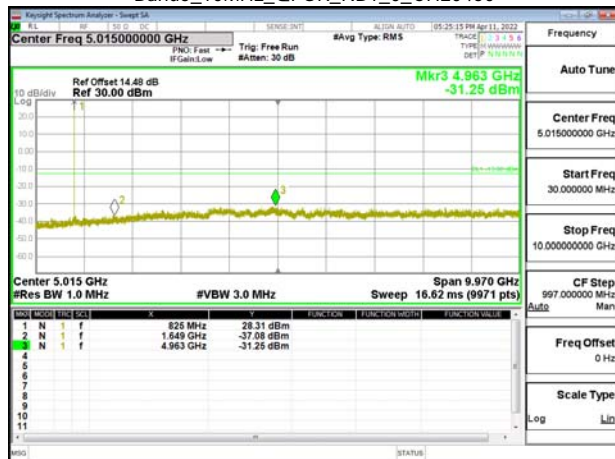


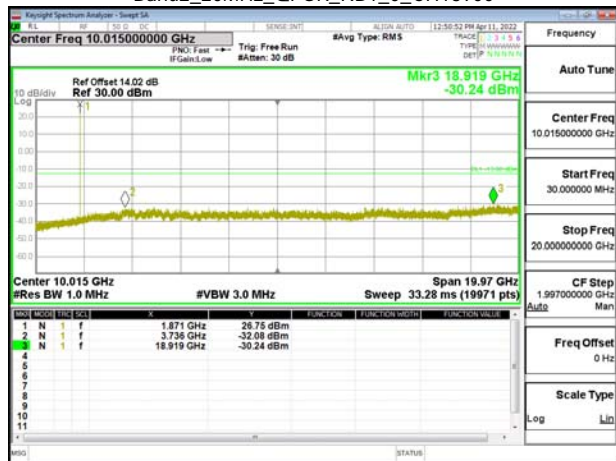
Band2_20MHz_QPSK_RB1_0_CH18700



Band5_10MHz_QPSK_RB1_0_CH20450



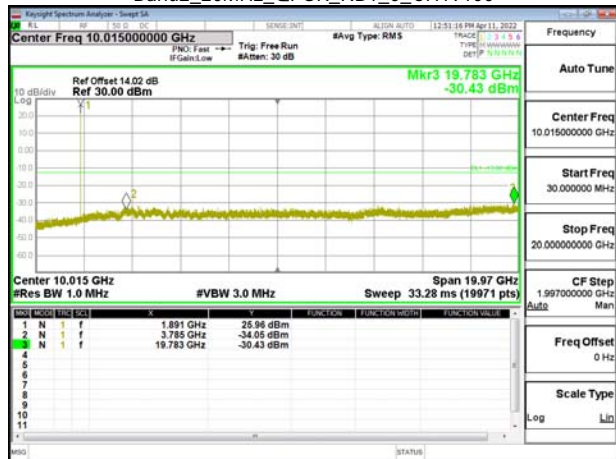
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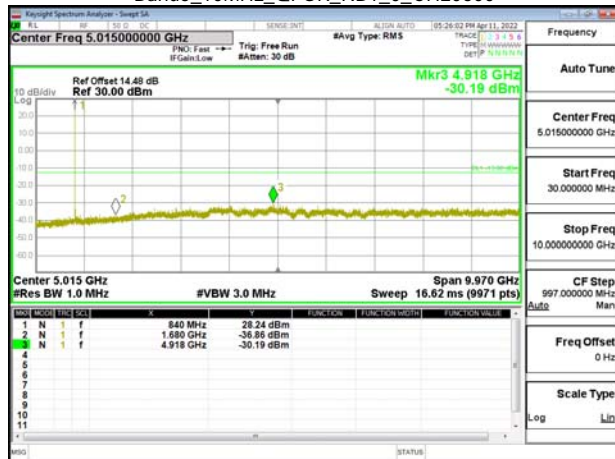
Band5_10MHz_QPSK_RB1_0_CH20525



Band2_20MHz_QPSK_RB1_0_CH19100



Band5_10MHz_QPSK_RB1_0_CH20600

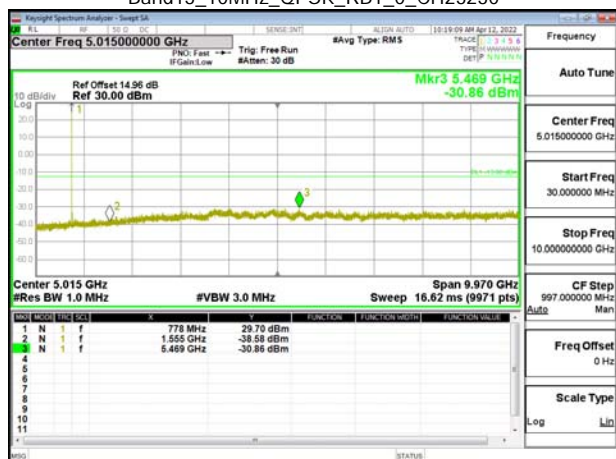


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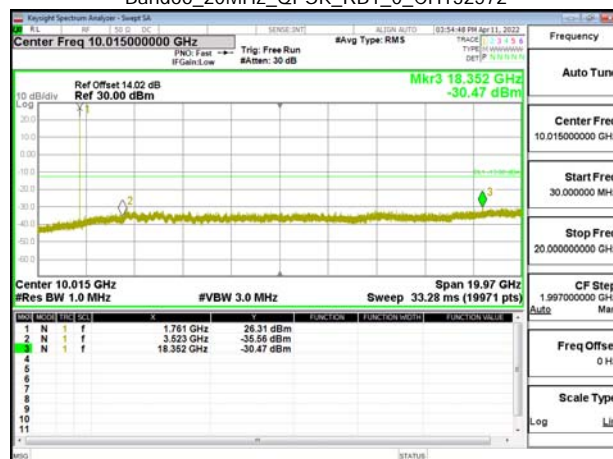
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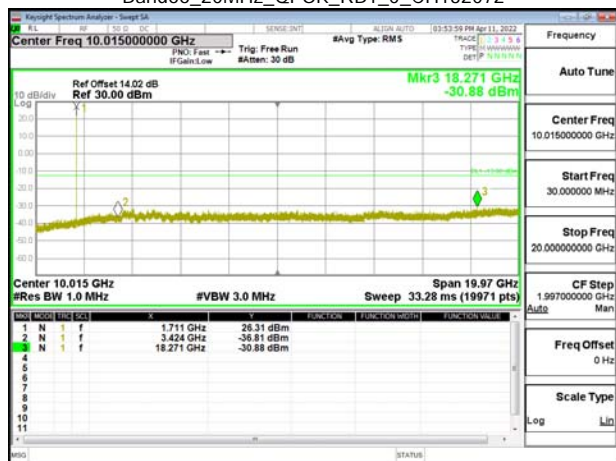
Band13_10MHz_QPSK_RB1_0_CH23230



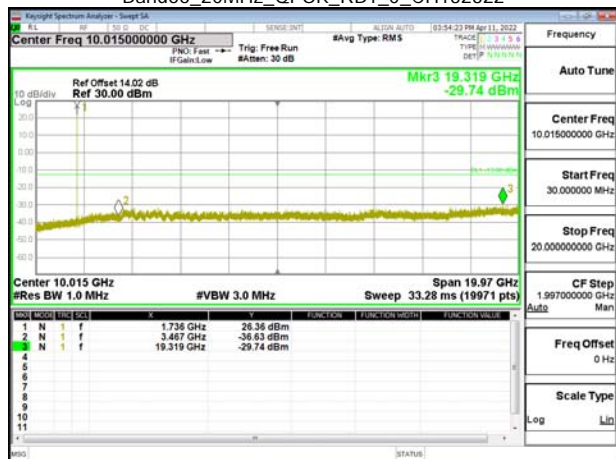
Band66_20MHz_QPSK_RB1_0_CH132572



Band66_20MHz_QPSK_RB1_0_CH132072



Band66_20MHz_QPSK_RB1_0_CH132322



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

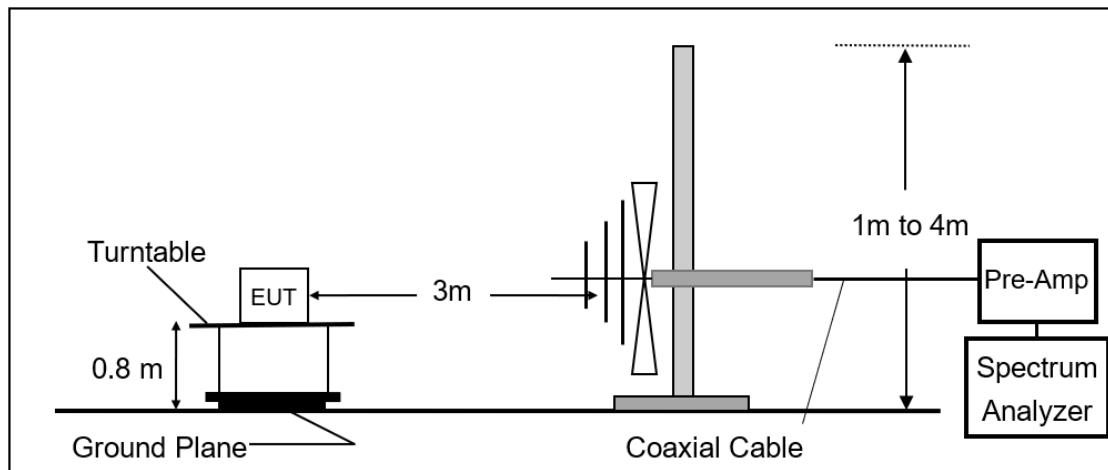
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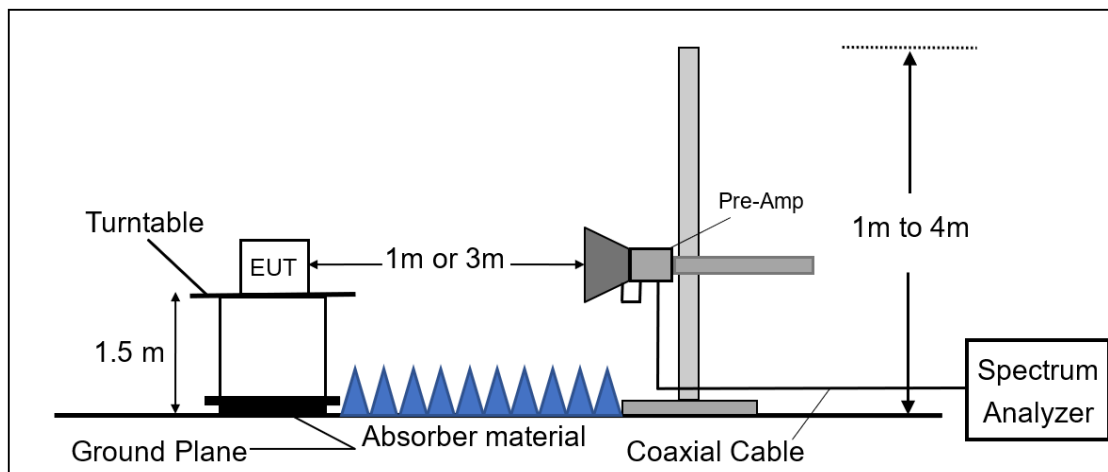
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10.2 EUT Setup

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



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



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10.3 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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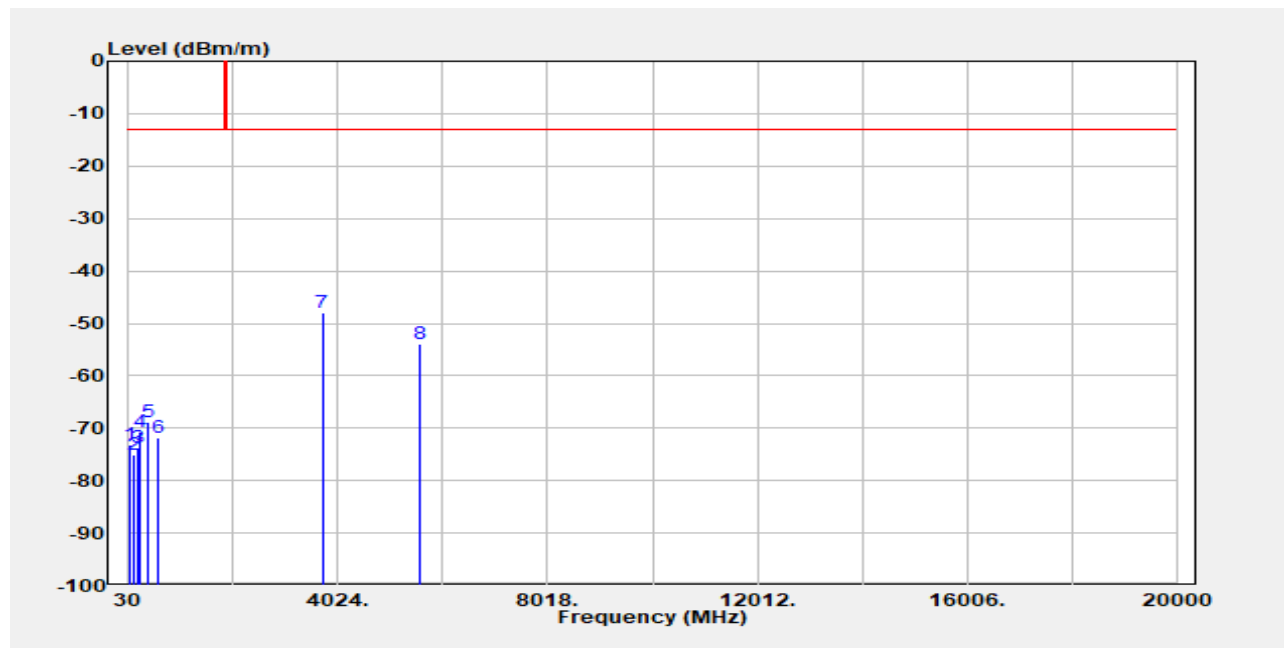
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10.4 Measurement Result:

Report Number :ER/2022/30082
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :1860 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.09	-60.26	-12.13	-0.70	-13.00	-60.09
127.00	-75.07	-71.87	-2.04	-1.16	-13.00	-62.07
193.93	-73.78	-76.18	3.83	-1.43	-13.00	-60.78
255.04	-70.62	-73.32	4.31	-1.62	-13.00	-57.62
396.66	-68.70	-70.91	4.32	-2.10	-13.00	-55.70
601.33	-71.75	-72.76	3.64	-2.63	-13.00	-58.75
3720.00	-47.85	-53.96	12.56	-6.45	-13.00	-34.85
5580.00	-53.91	-58.49	13.00	-8.42	-13.00	-40.91

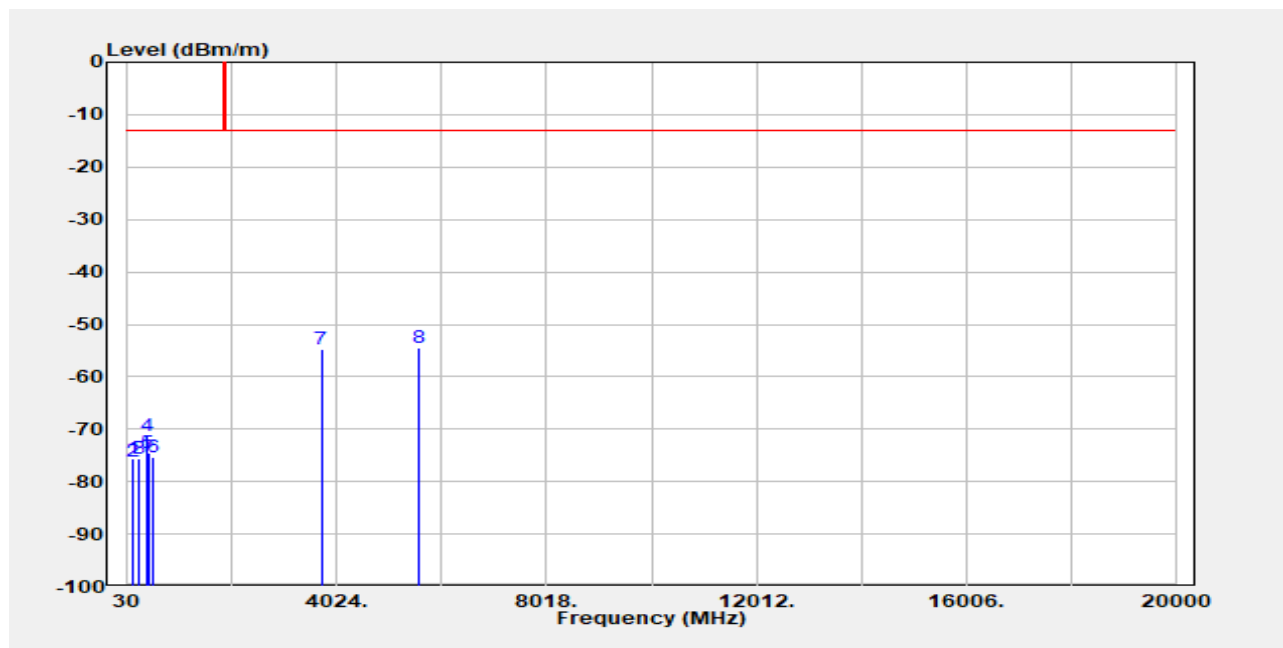
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1860 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-75.48	-72.78	-1.61	-1.10	-13.00	-62.48
127.97	-76.08	-73.04	-1.88	-1.16	-13.00	-63.08
252.13	-75.49	-78.22	4.33	-1.60	-13.00	-62.49
395.69	-71.17	-73.39	4.31	-2.09	-13.00	-58.17
418.97	-74.61	-76.99	4.26	-1.89	-13.00	-61.61
525.67	-75.40	-77.51	4.18	-2.07	-13.00	-62.40
3720.00	-54.71	-59.49	12.34	-7.56	-13.00	-41.71
5580.00	-54.48	-58.02	12.96	-9.42	-13.00	-41.48

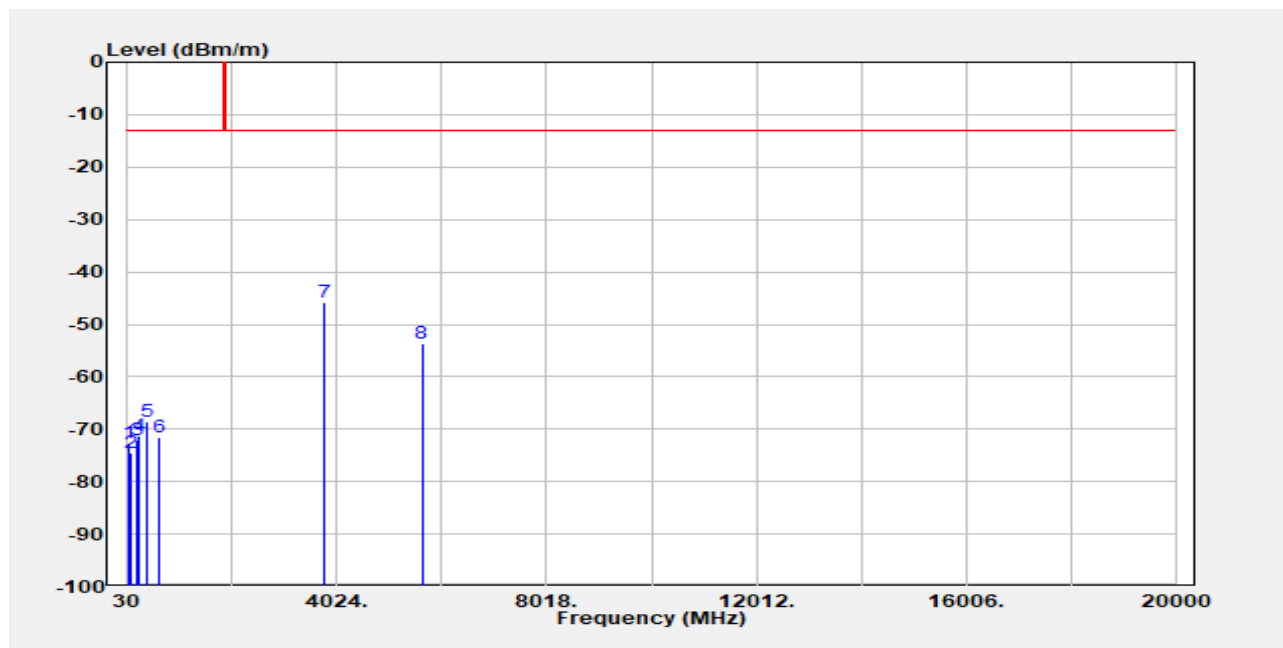
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Report Number :ER/2022/30082
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :1880 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-72.51	-59.68	-12.13	-0.70	-13.00	-59.51
102.75	-74.48	-72.37	-1.08	-1.03	-13.00	-61.48
191.99	-72.21	-74.32	3.54	-1.43	-13.00	-59.21
255.04	-71.22	-73.92	4.31	-1.62	-13.00	-58.22
398.60	-68.46	-70.66	4.32	-2.12	-13.00	-55.46
612.97	-71.54	-72.57	3.47	-2.44	-13.00	-58.54
3760.00	-45.80	-50.57	12.40	-7.63	-13.00	-32.80
5640.00	-53.76	-57.54	13.00	-9.23	-13.00	-40.76

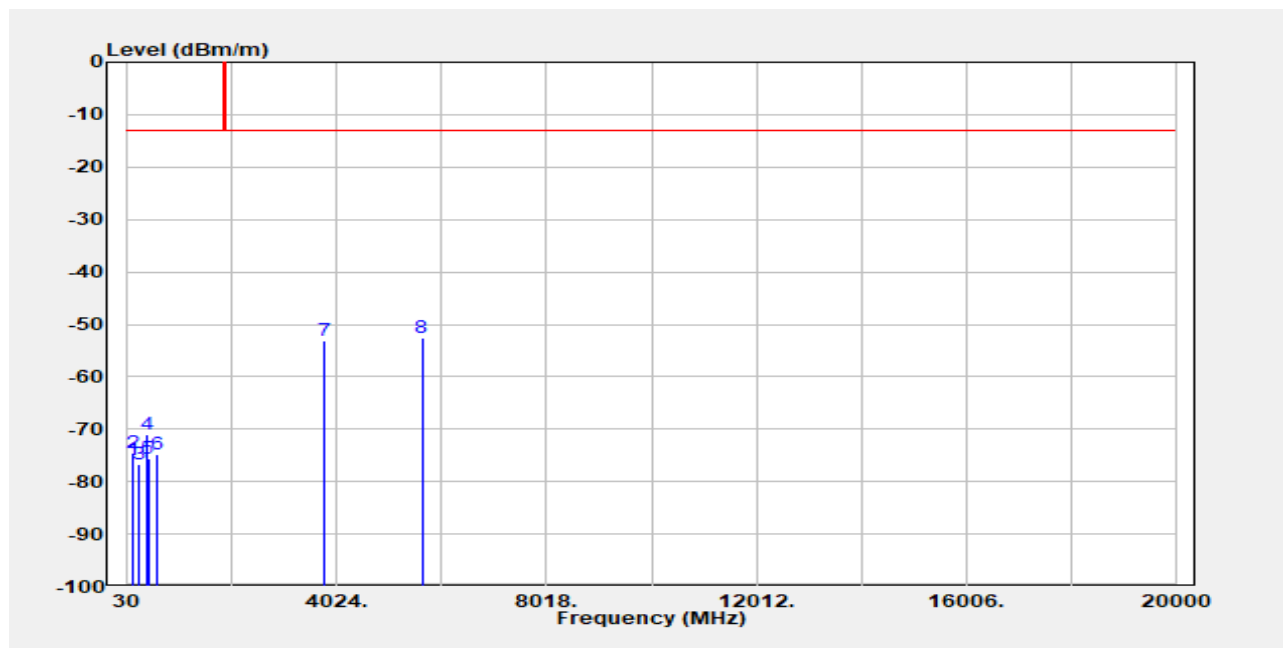
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-75.93	-73.11	-1.73	-1.09	-13.00	-62.93
127.97	-74.42	-71.38	-1.88	-1.16	-13.00	-61.42
252.13	-76.60	-79.33	4.33	-1.60	-13.00	-63.60
397.63	-71.12	-73.33	4.32	-2.11	-13.00	-58.12
418.97	-75.60	-77.98	4.26	-1.89	-13.00	-62.60
600.36	-74.84	-75.84	3.64	-2.64	-13.00	-61.84
3760.00	-53.18	-57.94	12.40	-7.63	-13.00	-40.18
5640.00	-52.58	-56.36	13.00	-9.23	-13.00	-39.58

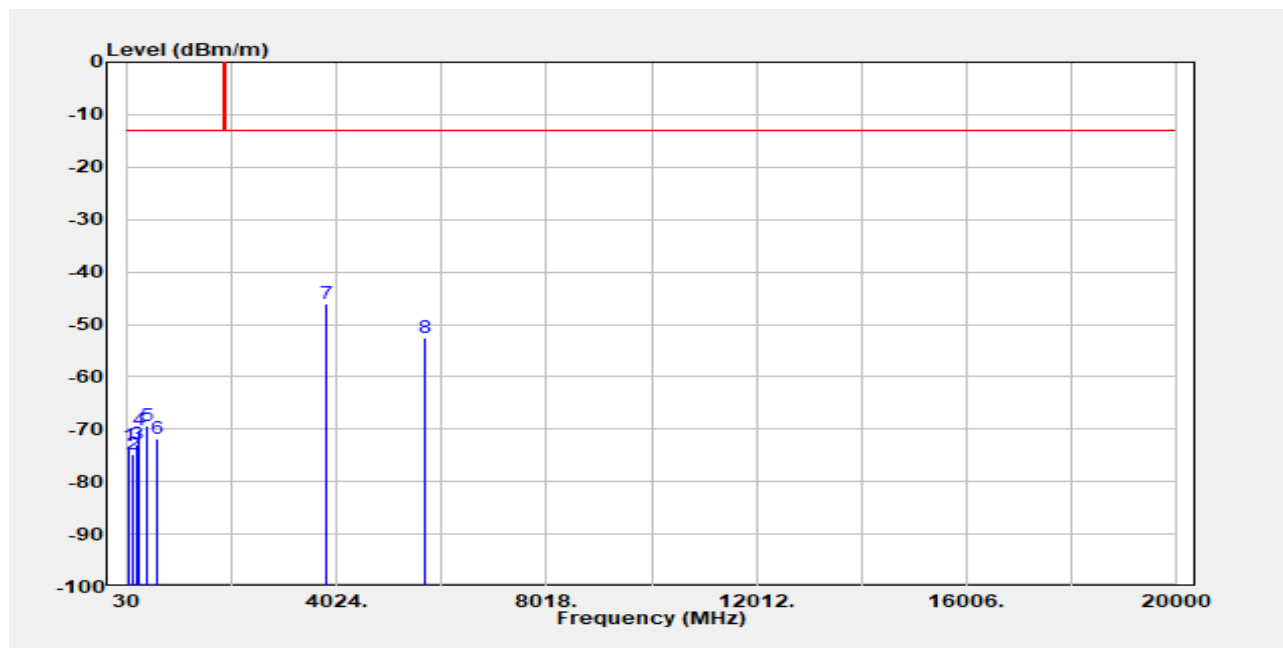
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Report Number :ER/2022/30082
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :1900 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.23	-60.40	-12.13	-0.70	-13.00	-60.23
131.85	-74.88	-71.59	-2.09	-1.20	-13.00	-61.88
191.99	-72.98	-75.09	3.54	-1.43	-13.00	-59.98
254.07	-70.17	-72.87	4.32	-1.61	-13.00	-57.17
397.63	-69.40	-71.61	4.32	-2.11	-13.00	-56.40
594.54	-71.91	-73.03	3.77	-2.65	-13.00	-58.91
3800.00	-45.97	-50.66	12.40	-7.70	-13.00	-32.97
5700.00	-52.68	-56.37	12.80	-9.10	-13.00	-39.68

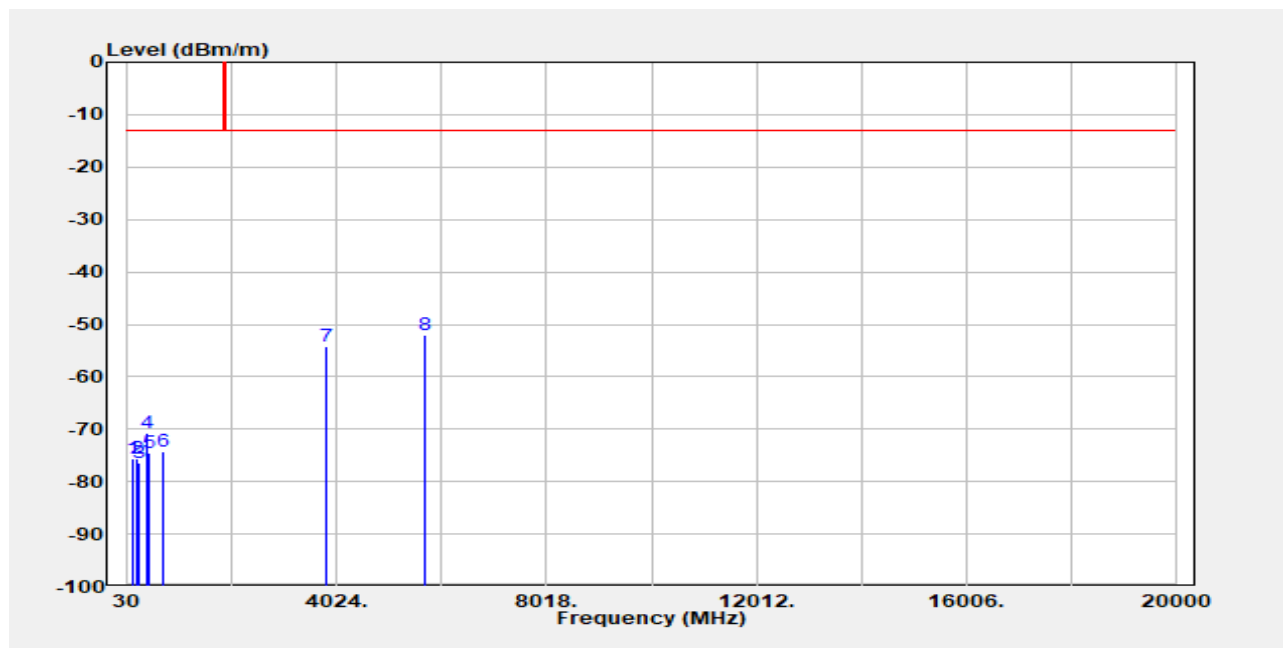
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1900 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-75.63	-72.58	-1.88	-1.16	-13.00	-62.63
196.84	-75.54	-78.18	4.06	-1.43	-13.00	-62.54
252.13	-76.47	-79.20	4.33	-1.60	-13.00	-63.47
396.66	-70.71	-72.92	4.32	-2.10	-13.00	-57.71
450.01	-74.64	-76.60	4.14	-2.19	-13.00	-61.64
688.63	-74.31	-75.07	3.77	-3.01	-13.00	-61.31
3800.00	-54.08	-58.78	12.40	-7.70	-13.00	-41.08
5700.00	-52.14	-55.84	12.80	-9.10	-13.00	-39.14

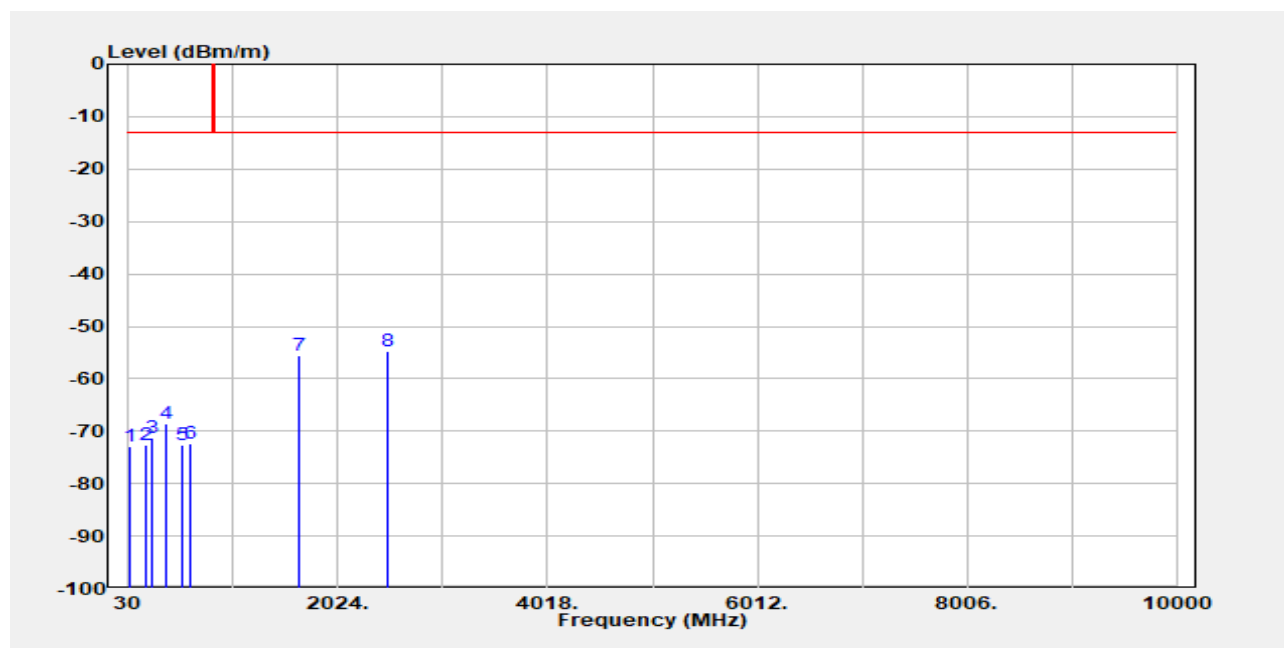
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :829 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-72.93	-60.10	-12.13	-0.70	-13.00	-59.93
192.96	-72.56	-74.81	3.69	-1.43	-13.00	-59.56
245.34	-71.24	-74.00	4.36	-1.60	-13.00	-58.24
395.69	-68.48	-70.70	4.31	-2.09	-13.00	-55.48
534.40	-72.62	-74.71	4.24	-2.15	-13.00	-59.62
610.06	-72.29	-73.27	3.49	-2.50	-13.00	-59.29
1658.00	-55.63	-60.88	9.52	-4.27	-13.00	-42.63
2487.00	-54.64	-60.04	10.57	-5.18	-13.00	-41.64

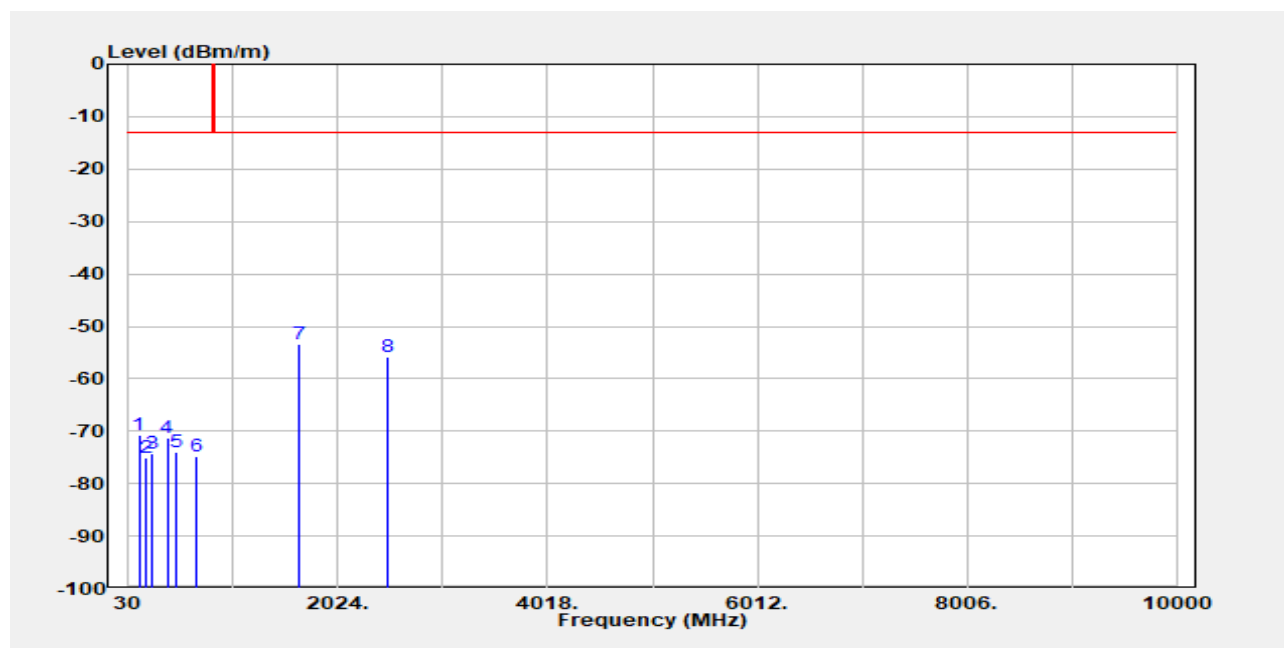
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :829 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-70.78	-67.73	-1.88	-1.16	-13.00	-57.78
192.96	-75.12	-77.37	3.69	-1.43	-13.00	-62.12
255.04	-74.24	-76.93	4.31	-1.62	-13.00	-61.24
396.66	-71.28	-73.49	4.32	-2.10	-13.00	-58.28
480.08	-73.98	-75.75	4.21	-2.44	-13.00	-60.98
672.14	-74.77	-75.43	3.77	-3.12	-13.00	-61.77
1658.00	-53.41	-58.66	9.52	-4.27	-13.00	-40.41
2487.00	-55.79	-61.18	10.57	-5.18	-13.00	-42.79

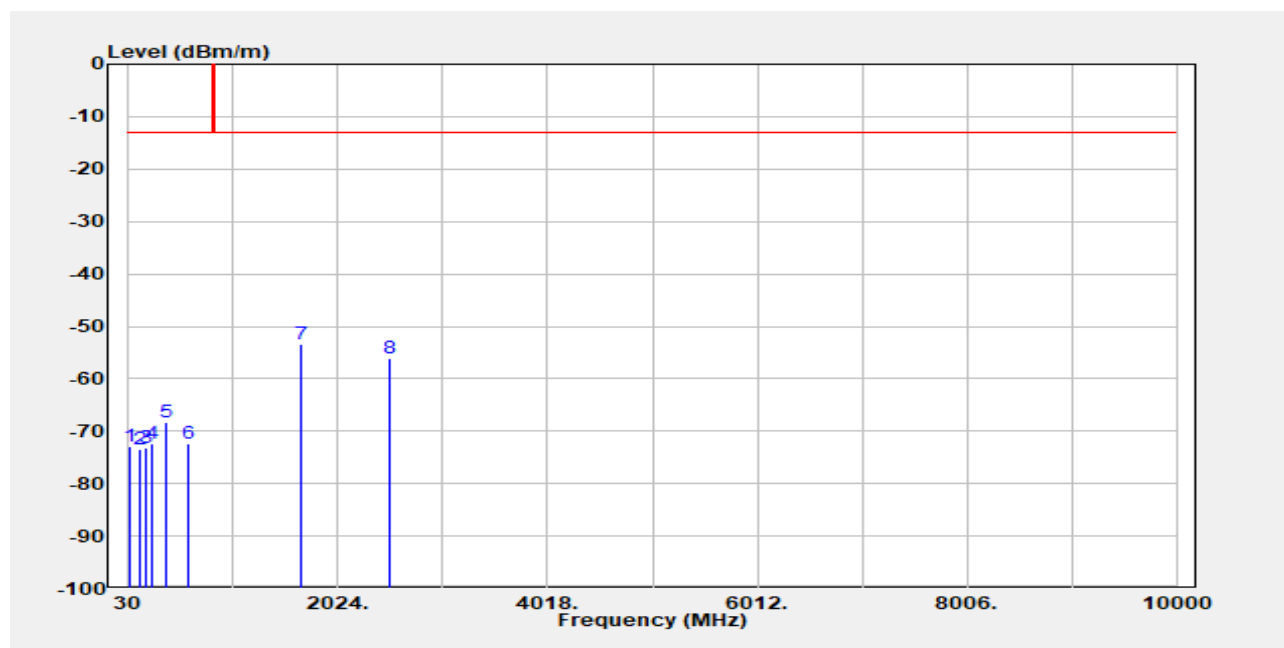
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.5 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-72.91	-60.08	-12.13	-0.70	-13.00	-59.91
129.91	-73.50	-70.21	-2.13	-1.17	-13.00	-60.50
195.87	-73.12	-75.70	4.01	-1.43	-13.00	-60.12
255.04	-72.36	-75.05	4.31	-1.62	-13.00	-59.36
395.69	-68.34	-70.56	4.31	-2.09	-13.00	-55.34
606.18	-72.38	-73.40	3.58	-2.56	-13.00	-59.38
1673.00	-53.31	-58.57	9.55	-4.29	-13.00	-40.31
2509.50	-56.22	-61.64	10.62	-5.20	-13.00	-43.22

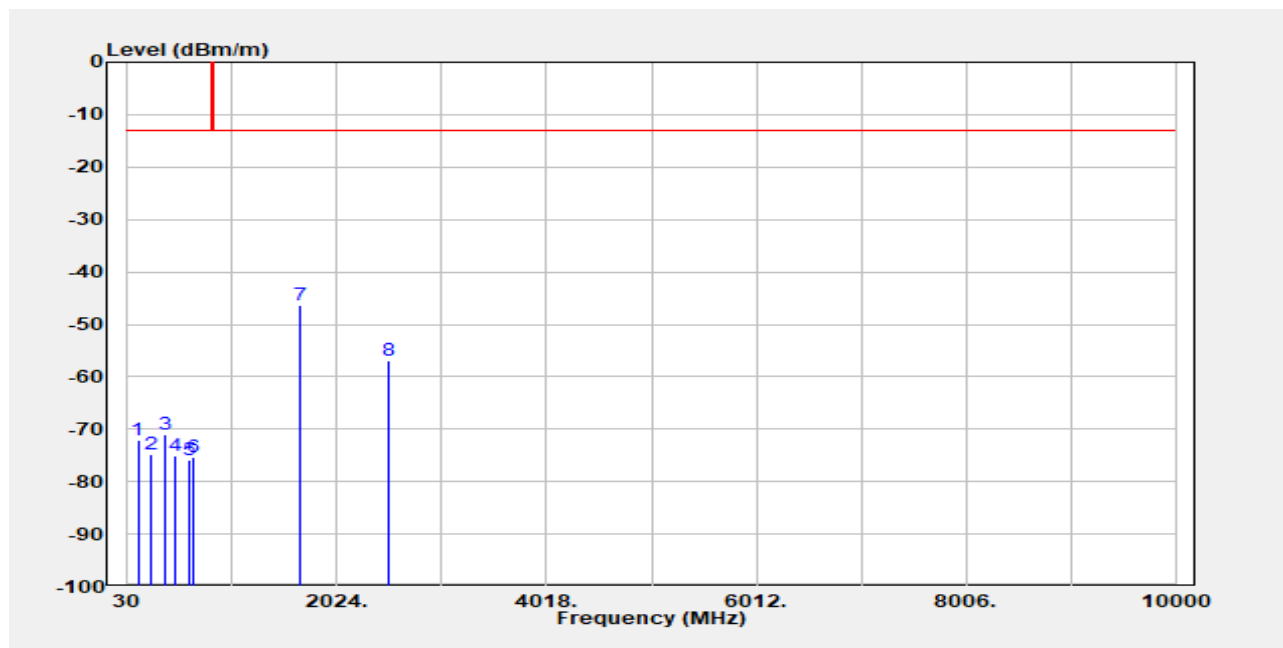
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Report Number :ER/2022/30082
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-72.01	-68.96	-1.88	-1.16	-13.00	-59.01
256.01	-74.67	-77.37	4.32	-1.62	-13.00	-61.67
395.69	-71.00	-73.22	4.31	-2.09	-13.00	-58.00
480.08	-74.93	-76.70	4.21	-2.44	-13.00	-61.93
615.88	-75.80	-76.88	3.45	-2.38	-13.00	-62.80
657.59	-75.45	-76.70	3.64	-2.39	-13.00	-62.45
1673.00	-46.44	-51.70	9.55	-4.29	-13.00	-33.44
2509.50	-56.87	-62.30	10.62	-5.20	-13.00	-43.87

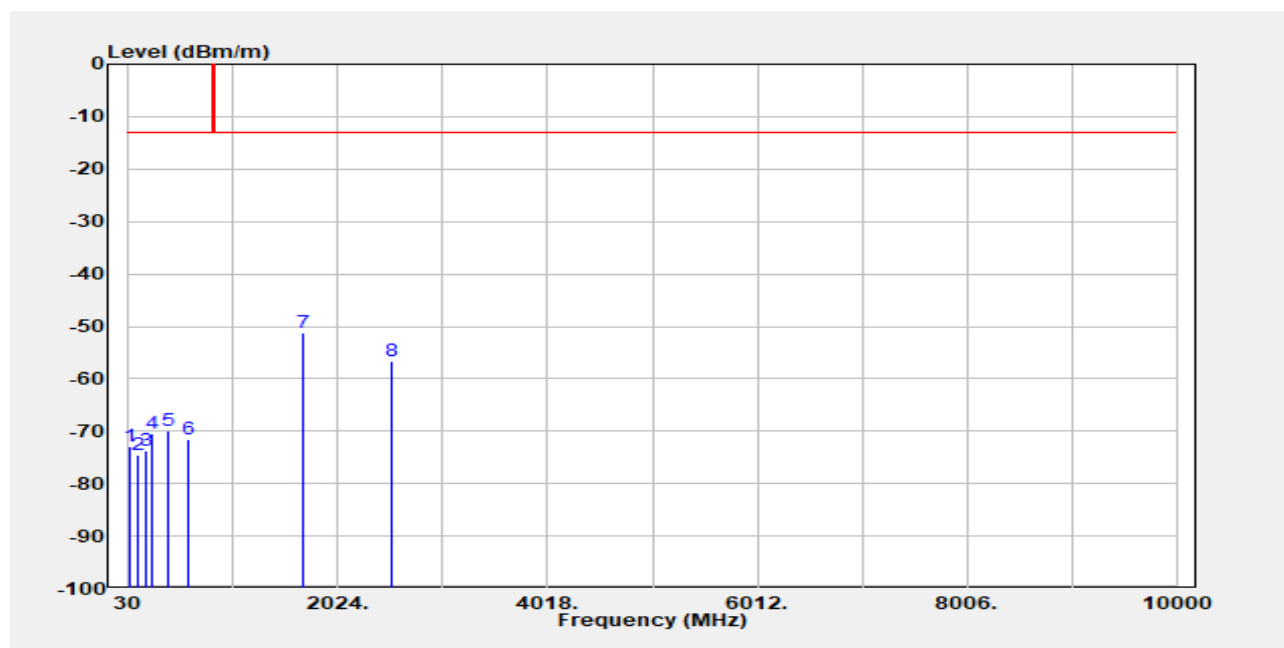
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :844 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.40	-72.84	-60.21	-11.93	-0.70	-13.00	-59.84
127.00	-74.42	-71.22	-2.04	-1.16	-13.00	-61.42
191.99	-73.68	-75.79	3.54	-1.43	-13.00	-60.68
256.01	-70.38	-73.08	4.32	-1.62	-13.00	-57.38
397.63	-69.99	-72.19	4.32	-2.11	-13.00	-56.99
597.45	-71.51	-72.58	3.71	-2.65	-13.00	-58.51
1688.00	-51.27	-56.53	9.58	-4.31	-13.00	-38.27
2532.00	-56.74	-62.19	10.66	-5.22	-13.00	-43.74

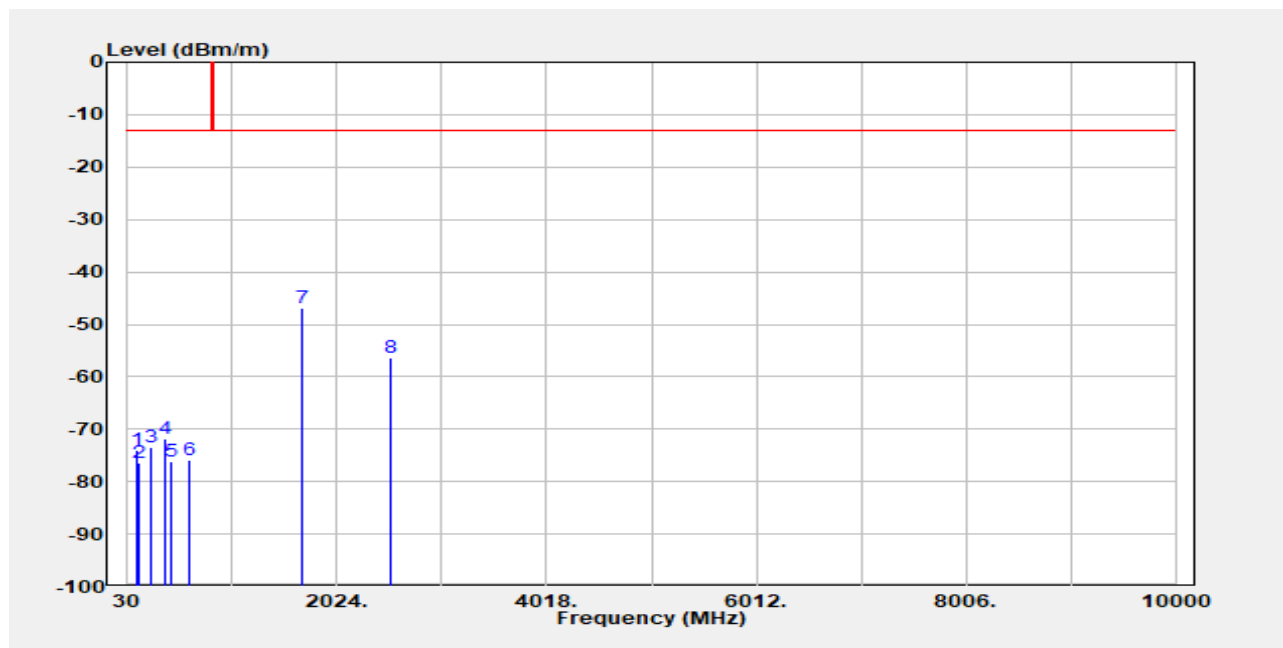
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Report Number :ER/2022/30082
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
118.27	-73.88	-71.05	-1.72	-1.12	-13.00	-60.88
131.85	-76.39	-73.10	-2.09	-1.20	-13.00	-63.39
252.13	-73.41	-76.14	4.33	-1.60	-13.00	-60.41
391.81	-71.70	-74.01	4.37	-2.06	-13.00	-58.70
441.28	-76.17	-78.03	4.07	-2.21	-13.00	-63.17
617.82	-75.75	-76.85	3.44	-2.33	-13.00	-62.75
1688.00	-46.75	-52.02	9.58	-4.31	-13.00	-33.75
2532.00	-56.27	-61.72	10.66	-5.22	-13.00	-43.27

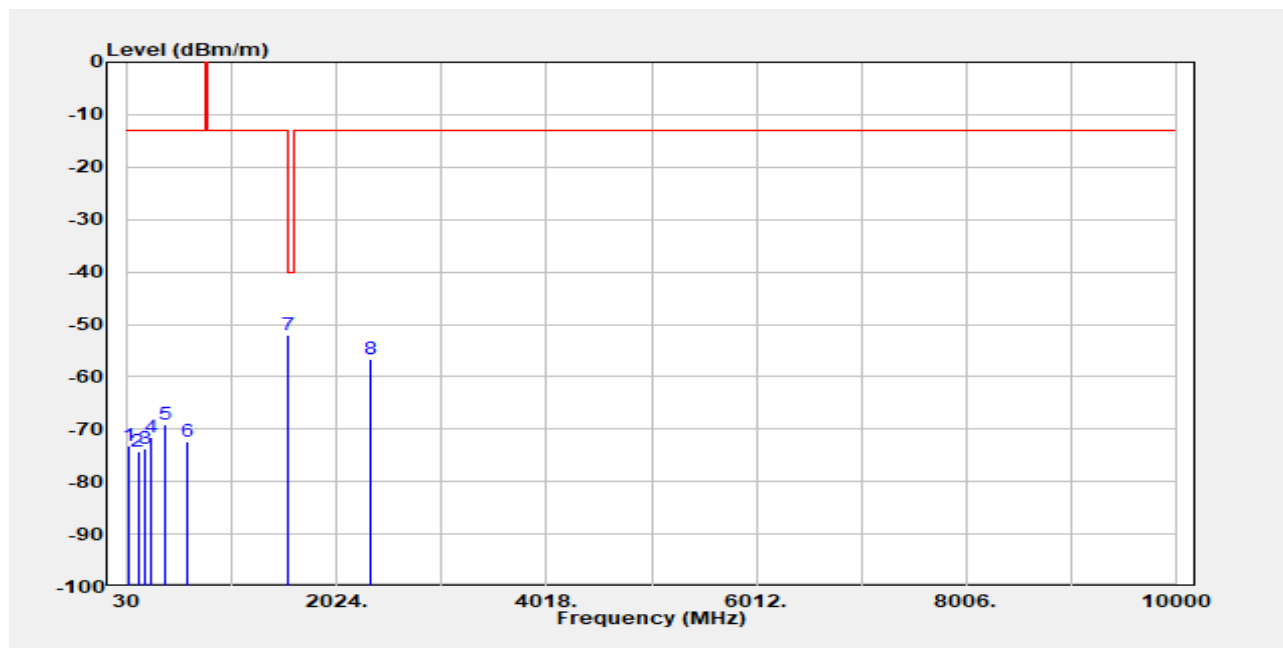
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Report Number :ER/2022/30082
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.11	-60.28	-12.13	-0.70	-13.00	-60.11
127.97	-74.34	-71.30	-1.88	-1.16	-13.00	-61.34
193.93	-73.71	-76.11	3.83	-1.43	-13.00	-60.71
244.37	-71.68	-74.44	4.37	-1.60	-13.00	-58.68
395.69	-69.13	-71.35	4.31	-2.09	-13.00	-56.13
600.36	-72.33	-73.33	3.64	-2.64	-13.00	-59.33
1564.00	-52.00	-56.94	9.18	-4.25	-40.00	-12.00
2346.00	-56.69	-61.29	9.78	-5.18	-13.00	-43.69

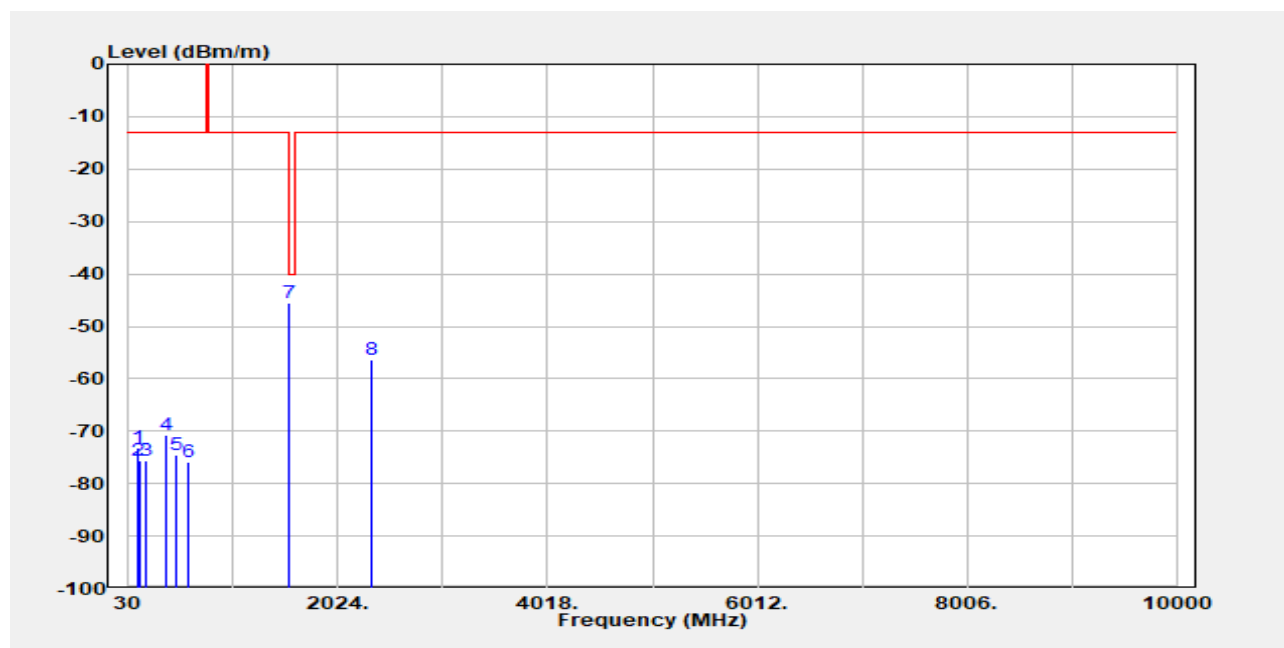
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Report Number :ER/2022/30082
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :782 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-73.20	-70.49	-1.61	-1.10	-13.00	-60.20
127.97	-75.60	-72.56	-1.88	-1.16	-13.00	-62.60
196.84	-75.58	-78.21	4.06	-1.43	-13.00	-62.58
394.72	-70.80	-73.03	4.32	-2.08	-13.00	-57.80
480.08	-74.47	-76.23	4.21	-2.44	-13.00	-61.47
603.27	-75.77	-76.79	3.62	-2.60	-13.00	-62.77
1564.00	-45.48	-50.42	9.18	-4.25	-40.00	-5.48
2346.00	-56.32	-60.92	9.78	-5.18	-13.00	-43.32

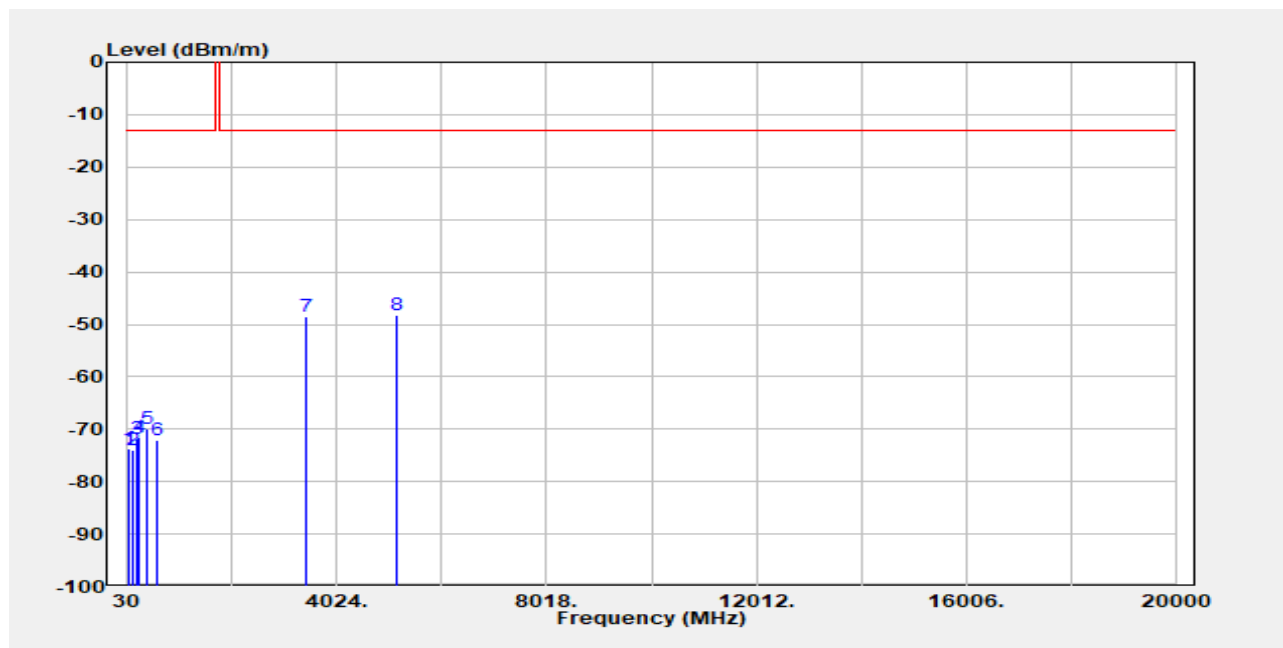
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1720 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.76	-60.93	-12.13	-0.70	-13.00	-60.76
128.94	-73.91	-70.75	-2.00	-1.17	-13.00	-60.91
191.99	-71.83	-73.94	3.54	-1.43	-13.00	-58.83
254.07	-71.64	-74.35	4.32	-1.61	-13.00	-58.64
396.66	-69.96	-72.17	4.32	-2.10	-13.00	-56.96
605.21	-72.02	-73.06	3.61	-2.57	-13.00	-59.02
3440.00	-48.62	-55.19	12.52	-5.95	-13.00	-35.62
5160.00	-48.26	-52.50	12.16	-7.93	-13.00	-35.26

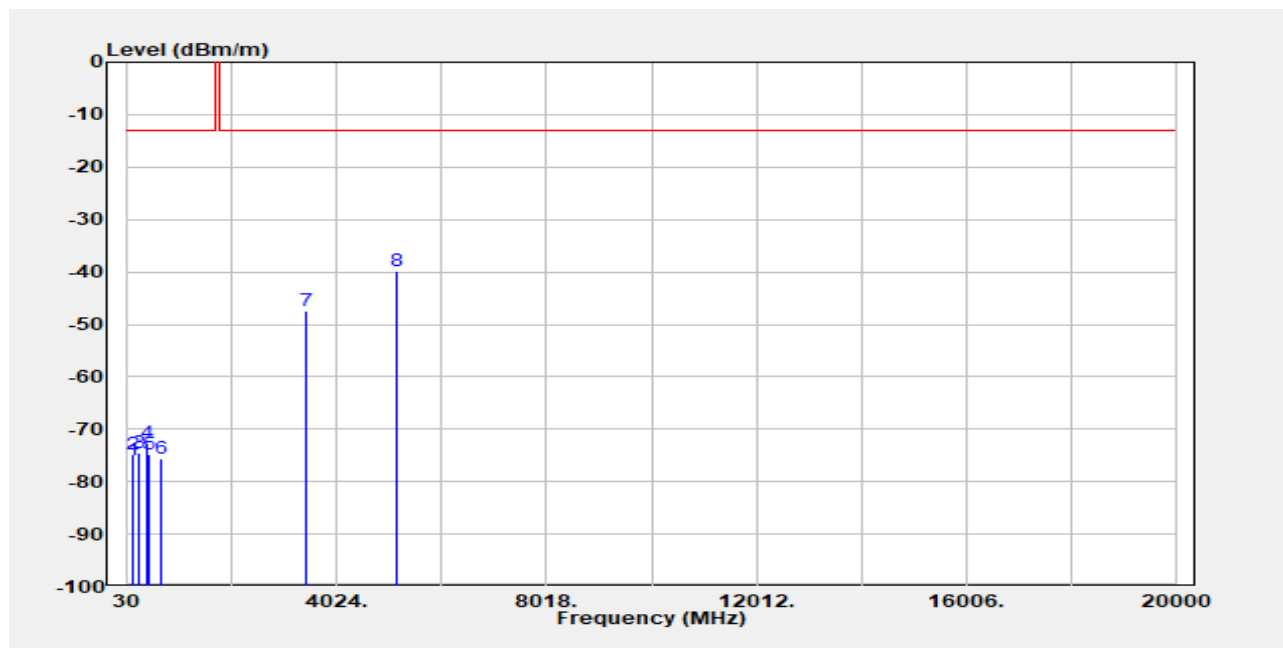
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1720 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-75.93	-73.08	-1.73	-1.11	-13.00	-62.93
132.82	-74.85	-71.67	-1.97	-1.21	-13.00	-61.85
251.16	-74.42	-77.16	4.33	-1.59	-13.00	-61.42
395.69	-72.70	-74.92	4.31	-2.09	-13.00	-59.70
440.31	-74.67	-76.51	4.06	-2.22	-13.00	-61.67
662.44	-75.56	-76.69	3.70	-2.57	-13.00	-62.56
3440.00	-47.52	-54.09	12.52	-5.95	-13.00	-34.52
5160.00	-39.85	-44.08	12.16	-7.93	-13.00	-26.85

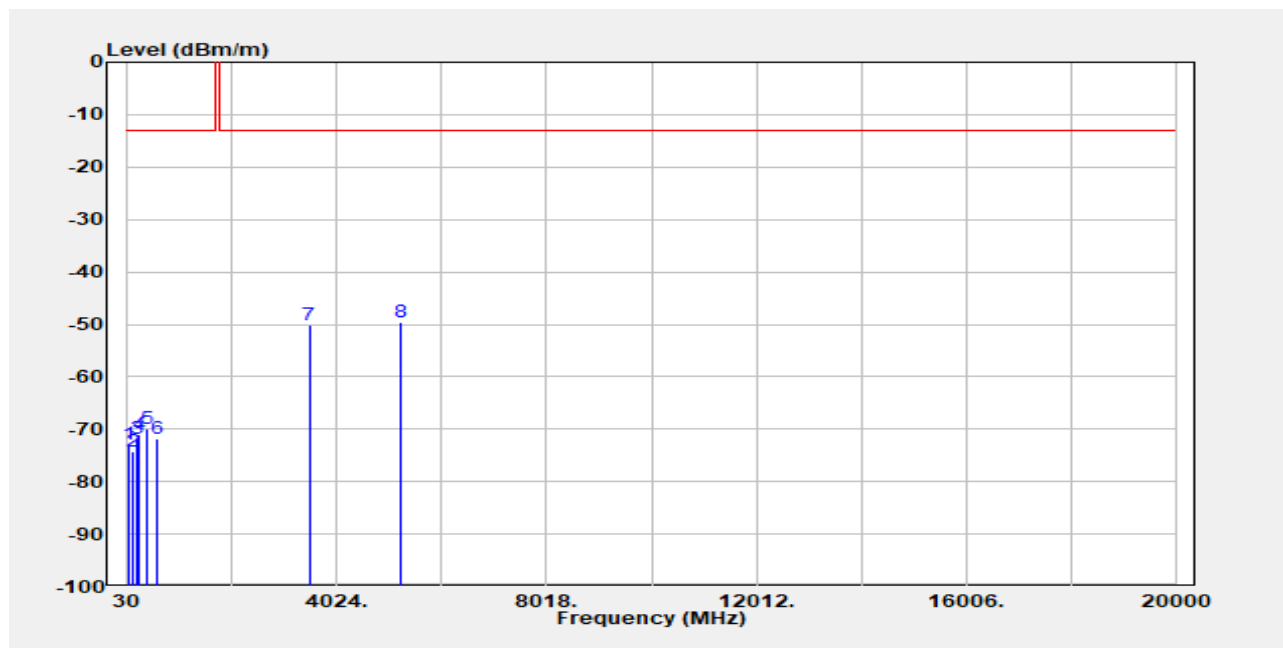
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Report Number :ER/2022/30082
 Operation Mode :LTE B66
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :1745 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.00	-60.17	-12.13	-0.70	-13.00	-60.00
127.97	-74.26	-71.22	-1.88	-1.16	-13.00	-61.26
191.99	-71.85	-73.96	3.54	-1.43	-13.00	-58.85
253.10	-71.03	-73.74	4.32	-1.60	-13.00	-58.03
400.54	-69.88	-72.09	4.32	-2.12	-13.00	-56.88
609.09	-71.87	-72.87	3.51	-2.52	-13.00	-58.87
3490.00	-50.25	-56.41	12.42	-6.26	-13.00	-37.25
5235.00	-49.56	-54.25	12.68	-7.99	-13.00	-36.56

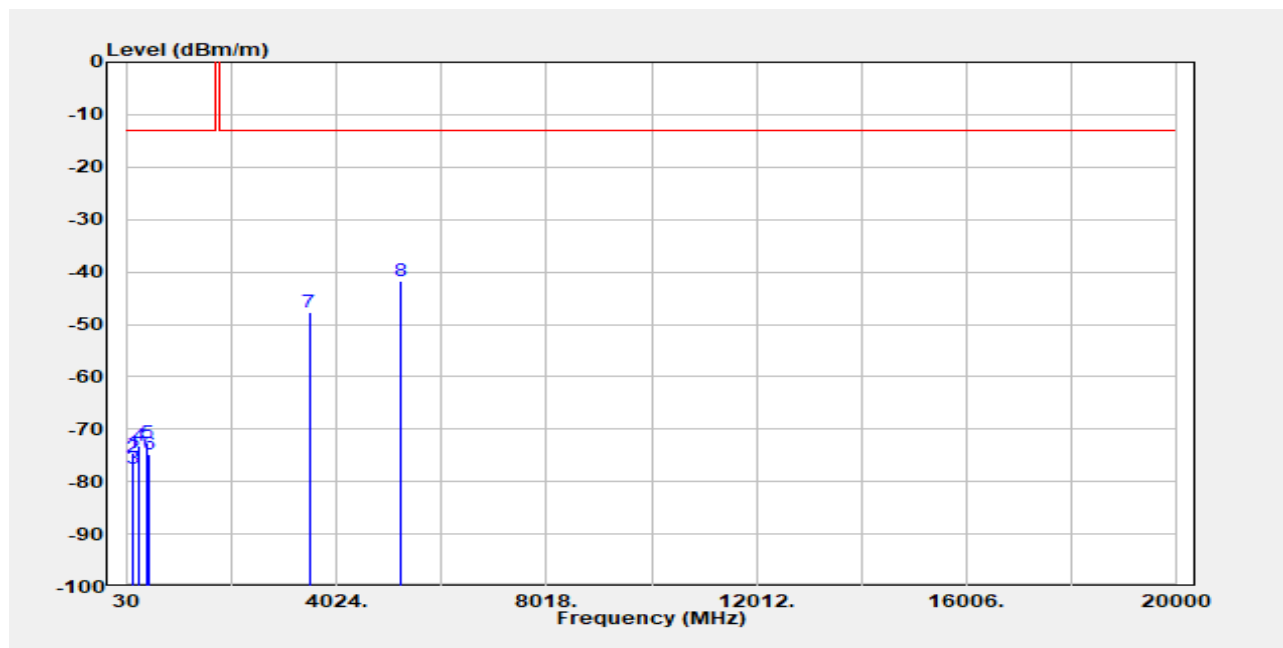
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Report Number :ER/2022/30082
 Operation Mode :LTE B66
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :1745 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
118.27	-74.50	-71.67	-1.72	-1.12	-13.00	-61.50
131.85	-75.26	-71.97	-2.09	-1.20	-13.00	-62.26
140.58	-77.49	-74.27	-1.90	-1.31	-13.00	-64.49
252.13	-73.17	-75.90	4.33	-1.60	-13.00	-60.17
394.72	-72.54	-74.77	4.32	-2.08	-13.00	-59.54
420.91	-74.92	-77.22	4.21	-1.90	-13.00	-61.92
3490.00	-47.65	-53.81	12.42	-6.26	-13.00	-34.65
5235.00	-41.79	-46.48	12.68	-7.99	-13.00	-28.79

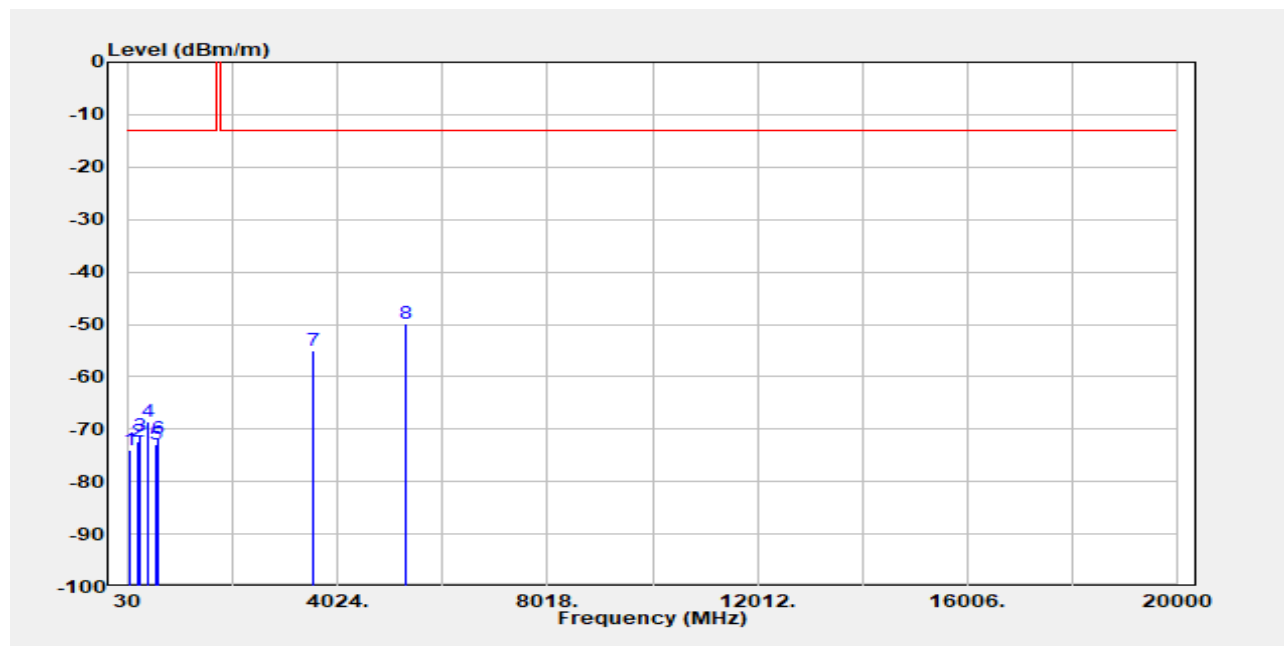
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1770 MHz

Test Site :SAC 1
Test Date :2022-05-09
Temp./Humi. :22.7/70
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.43	-73.89	-61.06	-12.13	-0.70	-13.00	-60.89
191.99	-72.36	-74.47	3.54	-1.43	-13.00	-59.36
253.10	-71.21	-73.92	4.32	-1.60	-13.00	-58.21
397.63	-68.54	-70.75	4.32	-2.11	-13.00	-55.54
537.31	-72.98	-75.05	4.33	-2.26	-13.00	-59.98
604.24	-71.92	-72.96	3.62	-2.58	-13.00	-58.92
3540.00	-55.08	-61.00	12.40	-6.48	-13.00	-42.08
5310.00	-49.95	-54.65	13.00	-8.30	-13.00	-36.95

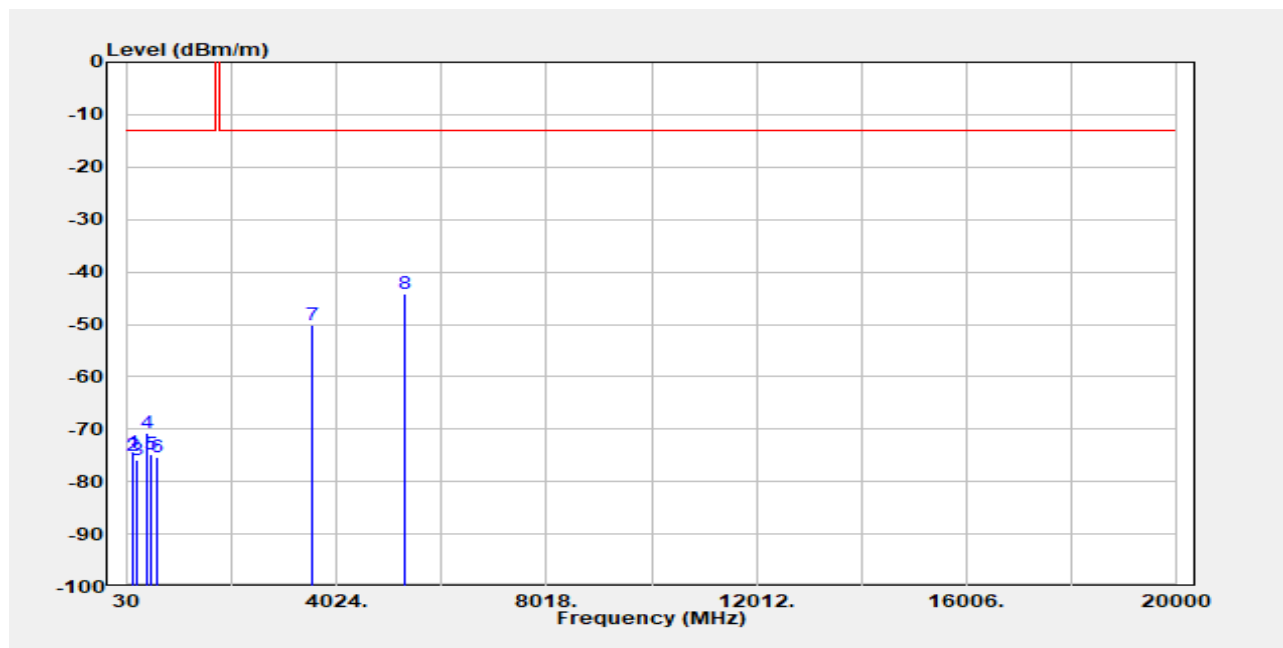
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Report Number :ER/2022/30082
 Operation Mode :LTE B66
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :1770 MHz

Test Site :SAC 1
 Test Date :2022-05-09
 Temp./Humi. :22.7/70
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-74.59	-71.88	-1.61	-1.10	-13.00	-61.59
127.00	-75.13	-71.92	-2.04	-1.16	-13.00	-62.13
193.93	-75.87	-78.26	3.83	-1.43	-13.00	-62.87
393.75	-70.75	-73.01	4.33	-2.08	-13.00	-57.75
480.08	-74.67	-76.43	4.21	-2.44	-13.00	-61.67
606.18	-75.39	-76.42	3.58	-2.56	-13.00	-62.39
3540.00	-50.19	-56.11	12.40	-6.48	-13.00	-37.19
5310.00	-44.19	-48.89	13.00	-8.30	-13.00	-31.19

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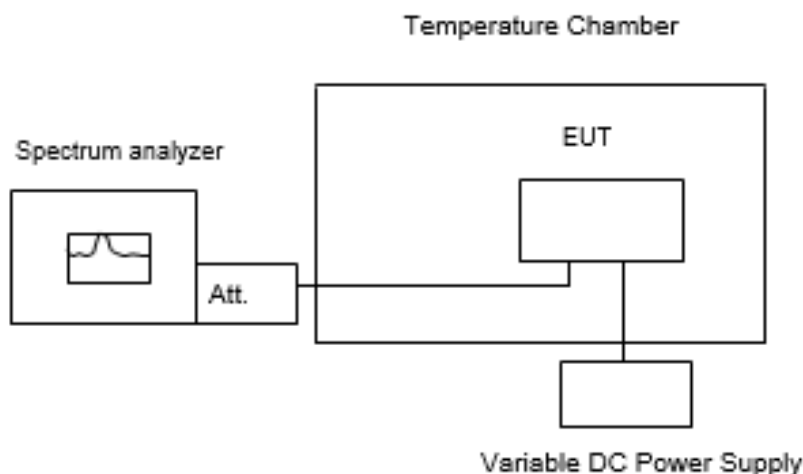
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 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.

11.4 Measurement Result

Note: The power is rated 120V.

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Reference Freq.:		LTE B2 Mid Channel		1880.0000	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
138	25	1879.999998	-0.0011	+/- 2.5 ppm	
120	25	1880.000016	0.0084		
102	25	1880.000005	0.0026		
62 (End Point)	25	1879.999993	-0.0036		
Freq. ERROR vs. Temp.					
120	-30	1879.999984	-0.0087	+/- 2.5 ppm	
120	-20	1879.999993	-0.0035		
120	-10	1879.999986	-0.0074		
120	0	1880.000017	0.0093		
120	10	1880.000009	0.0048		
120	20	1880.000011	0.0056		
120	30	1880.000016	0.0085		
120	40	1880.000007	0.0036		
120	50	1879.999998	-0.0010		
Reference Freq.:		LTE B5 Mid Channel		836.5000	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
138	25	836.500007	0.0089	+/- 2.5 ppm	
120	25	836.499987	-0.0155		
102	25	836.499991	-0.0111		
62 (End Point)	25	836.500009	0.0104		
Freq. ERROR vs. Temp.					
120	-30	836.500007	0.0089	+/- 2.5 ppm	
120	-20	836.499980	-0.0235		
120	-10	836.500002	0.0021		
120	0	836.499989	-0.0129		
120	10	836.500004	0.0051		
120	20	836.500008	0.0100		
120	30	836.500012	0.0146		
120	40	836.499990	-0.0116		
120	50	836.499990	-0.0124		

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Reference Freq.:		LTE B13 Mid Channel		782.0000	MHz 10M QPSK CH 23230			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit				
Freq. ERROR vs. VOLTAGE								
138	25	781.999992	-0.0098	+/- 2.5 ppm				
120	25	782.000012	0.0158					
102	25	782.000003	0.0038					
62 (End Point)	25	781.999995	-0.0066					
Freq. ERROR vs. Temp.								
120	-30	781.999989	-0.0147	+/- 2.5 ppm				
120	-20	781.999982	-0.0224					
120	-10	781.999983	-0.0219					
120	0	781.999985	-0.0191					
120	10	781.999985	-0.0188					
120	20	782.000012	0.0147					
120	30	782.000006	0.0077					
120	40	782.000005	0.0067					
120	50	781.999995	-0.0063					
Reference Freq.:						LTE B66 Mid Channel	1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit				
Freq. ERROR vs. VOLTAGE								
138	25	1744.999995	-0.0026	+/- 2.5 ppm				
120	25	1744.999994	-0.0036					
102	25	1744.999989	-0.0061					
62 (End Point)	25	1745.000014	0.0080					
Freq. ERROR vs. Temp.								
120	-30	1744.999984	-0.0094	+/- 2.5 ppm				
120	-20	1745.000003	0.0016					
120	-10	1744.999988	-0.0070					
120	0	1745.000013	0.0074					
120	10	1744.999990	-0.0060					
120	20	1744.999992	-0.0043					
120	30	1745.000008	0.0047					
120	40	1744.999985	-0.0087					
120	50	1744.999986	-0.0079					

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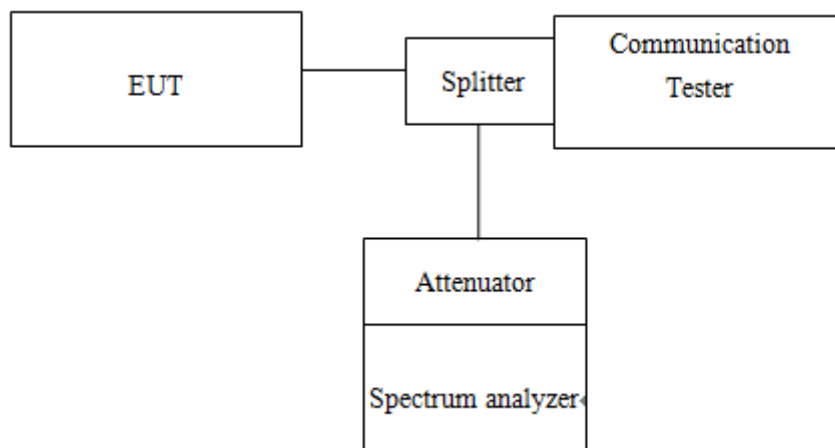
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

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

12.2 Test SET-UP



12.3 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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12.4 Measurement Result

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1850.7	18607	6.72	13	1851.5	18615	6.98	13
1880.0	18900	6.78	13	1880.0	18900	6.85	13
1909.3	19193	7.01	13	1908.5	19185	6.62	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1852.5	18625	7.15	13	1855.0	18650	6.71	13
1880.0	18900	6.57	13	1880.0	18900	6.47	13
1907.5	19175	6.91	13	1905.0	19150	7.04	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1857.5	18675	6.82	13	1860.0	18700	6.87	13
1880.0	18900	6.59	13	1880.0	18900	6.66	13
1902.5	19125	6.77	13	1900.0	19100	6.56	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
824.7	20407	6.79	13	825.5	20415	7.01	13
836.5	20525	6.64	13	836.5	20525	6.54	13
848.3	20643	6.68	13	847.5	20635	6.67	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
826.5	20425	6.38	13	829.0	20450	6.44	13
836.5	20525	6.74	13	836.5	20525	6.68	13
846.5	20625	6.59	13	844.0	20600	6.57	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
779.5	23205	6.43	13	782.0	23230	6.62	13
782.0	23230	6.81	13				
784.5	23255	6.50	13				

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1710.7	131979	6.90	13	1711.5	131987	6.93	13
1745.0	132322	6.81	13	1745.0	132322	6.82	13
1779.3	132665	6.93	13	1778.5	132657	7.02	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1712.5	131997	6.87	13	1715.0	132022	6.80	13
1745.0	132322	6.68	13	1745.0	132322	6.45	13
1777.5	132647	6.84	13	1775.0	132622	6.73	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1717.5	132047	6.83	13	1720.0	132072	6.91	13
1745.0	132322	6.69	13	1745.0	132322	6.53	13
1772.5	132597	6.75	13	1770.0	132572	6.79	13

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Band2_1.4MHz_256QAM_RB6_0_CH18607



Band2_3MHz_256QAM_RB15_0_CH18615



Band2_1.4MHz_256QAM_RB6_0_CH18900



Band2_3MHz_256QAM_RB15_0_CH18900



Band2_1.4MHz_256QAM_RB6_0_CH19193



Band2_3MHz_256QAM_RB15_0_CH19185



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Band2_5MHz_256QAM_RB25_0_CH18625



Band2_10MHz_256QAM_RB50_0_CH18650



Band2_5MHz_256QAM_RB25_0_CH18900



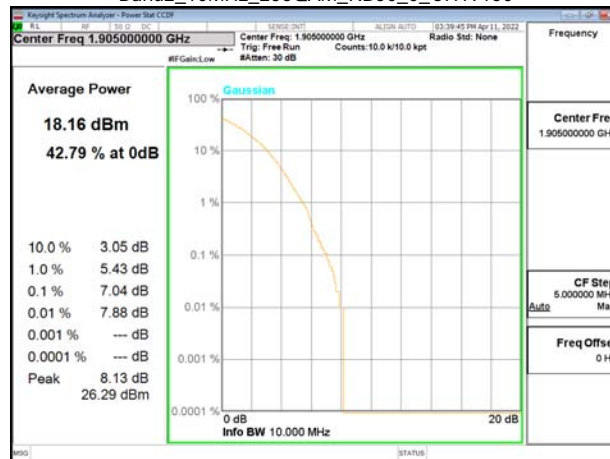
Band2_10MHz_256QAM_RB50_0_CH18900



Band2_5MHz_256QAM_RB25_0_CH19175



Band2_10MHz_256QAM_RB50_0_CH19150

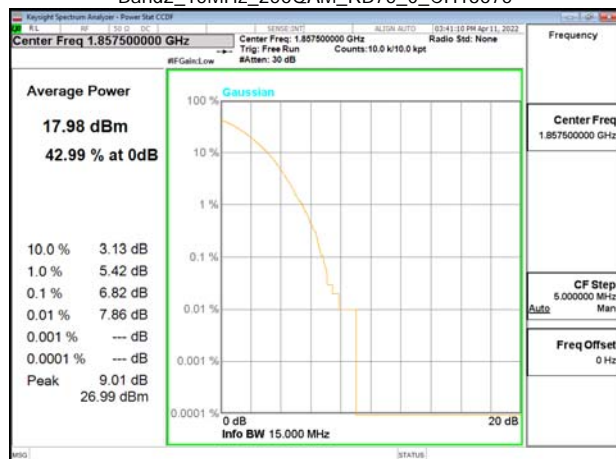


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Band2_15MHz_256QAM_RB75_0_CH18675



Band2_20MHz_256QAM_RB100_0_CH18700



Band2_15MHz_256QAM_RB75_0_CH18900



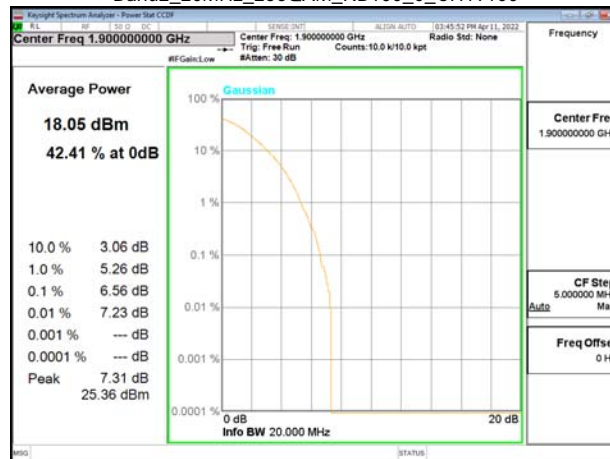
Band2_20MHz_256QAM_RB100_0_CH18900



Band2_15MHz_256QAM_RB75_0_CH19125



Band2_20MHz_256QAM_RB100_0_CH19100



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Band5_1.4MHz_256QAM_RB6_0_CH20407



Band5_3MHz_256QAM_RB15_0_CH20415



Band5_1.4MHz_256QAM_RB6_0_CH20525



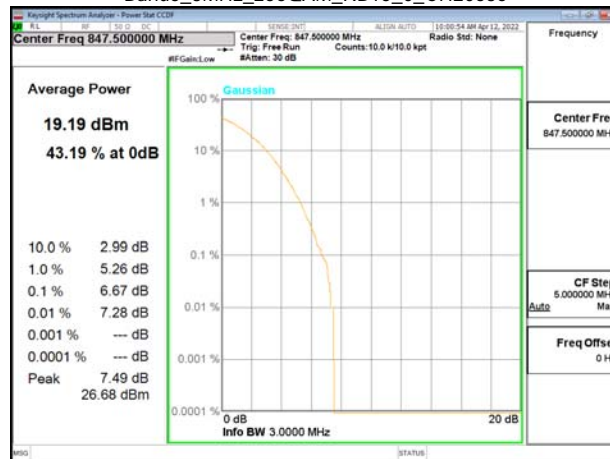
Band5_3MHz_256QAM_RB15_0_CH20525



Band5_1.4MHz_256QAM_RB6_0_CH20643



Band5_3MHz_256QAM_RB15_0_CH20635



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Band5_5MHz_256QAM_RB25_0_CH20425



Band5_10MHz_256QAM_RB50_0_CH20450



Band5_5MHz_256QAM_RB25_0_CH20525



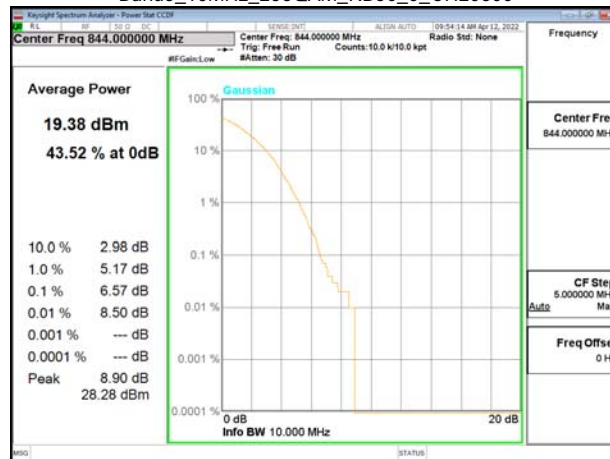
Band5_10MHz_256QAM_RB50_0_CH20525



Band5_5MHz_256QAM_RB25_0_CH20625



Band5_10MHz_256QAM_RB50_0_CH20600



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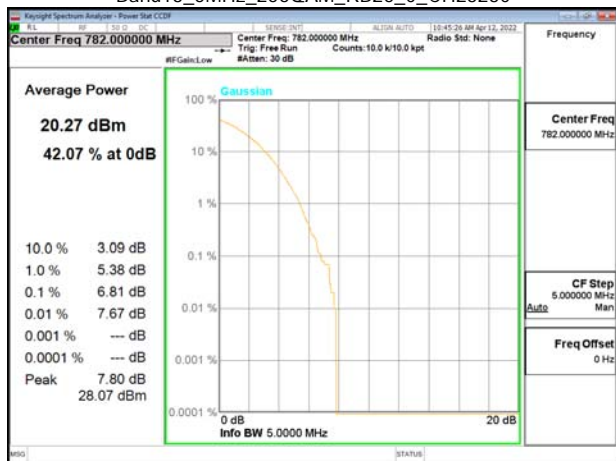
Band13_5MHz_256QAM_RB25_0_CH23205



Band13_10MHz_256QAM_RB50_0_CH23230



Band13_5MHz_256QAM_RB25_0_CH23230



Band66_1.4MHz_256QAM_RB6_0_CH131979



Band13_5MHz_256QAM_RB25_0_CH23255



Band66_1.4MHz_256QAM_RB6_0_CH132322



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Band66_1.4MHz_256QAM_RB6_0_CH132665



Band66_3MHz_256QAM_RB15_0_CH132657



Band66_3MHz_256QAM_RB15_0_CH131987



Band66_5MHz_256QAM_RB25_0_CH131997



Band66_3MHz_256QAM_RB15_0_CH132322



Band66_5MHz_256QAM_RB25_0_CH132322



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Band66_5MHz_256QAM_RB25_0_CH132647



Band66_10MHz_256QAM_RB50_0_CH132622



Band66_10MHz_256QAM_RB50_0_CH132022



Band66_15MHz_256QAM_RB75_0_CH132047



Band66_10MHz_256QAM_RB50_0_CH132322



Band66_15MHz_256QAM_RB75_0_CH132322



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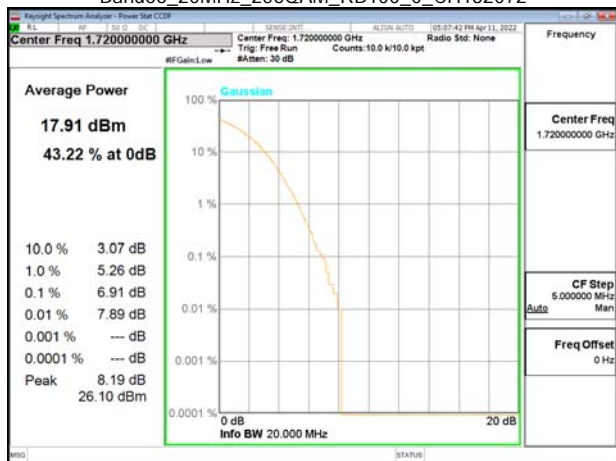
Band66_15MHz_256QAM_RB75_0_CH132597



Band66_20MHz_256QAM_RB100_0_CH132322



Band66_20MHz_256QAM_RB100_0_CH132072



Band66_20MHz_256QAM_RB100_0_CH132572



~ End of Report ~

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