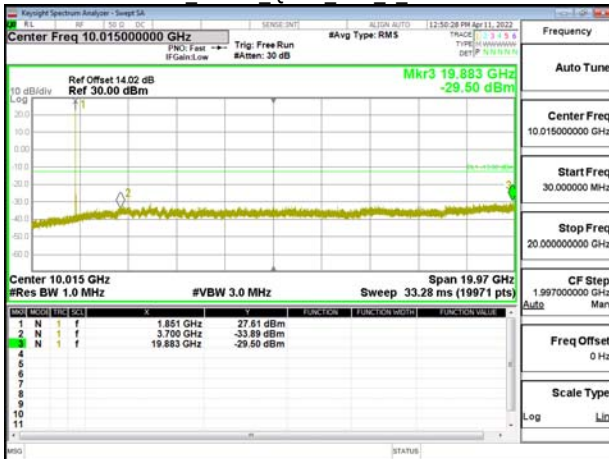


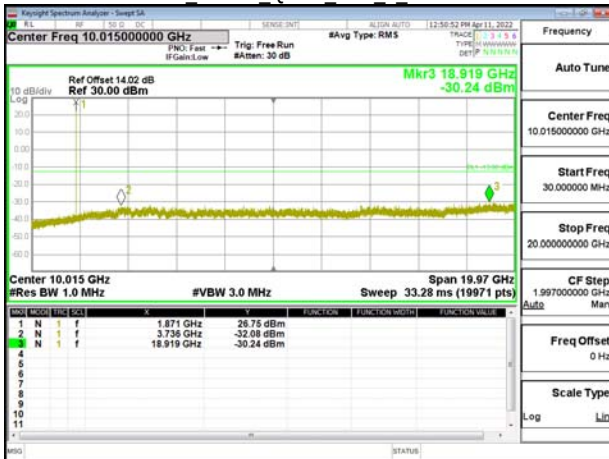
Band2 20MHz QPSK RB1 0 CH18700



Band5 10MHz QPSK RB1 0 CH20450



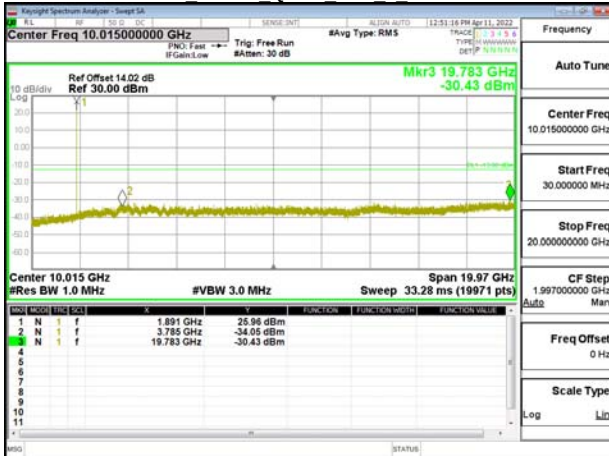
Band2 20MHz QPSK RB1 0 CH18900



Band5 10MHz QPSK RB1 0 CH20525



Band2 20MHz QPSK RB1 0 CH19100



Band5 10MHz QPSK RB1 0 CH20600

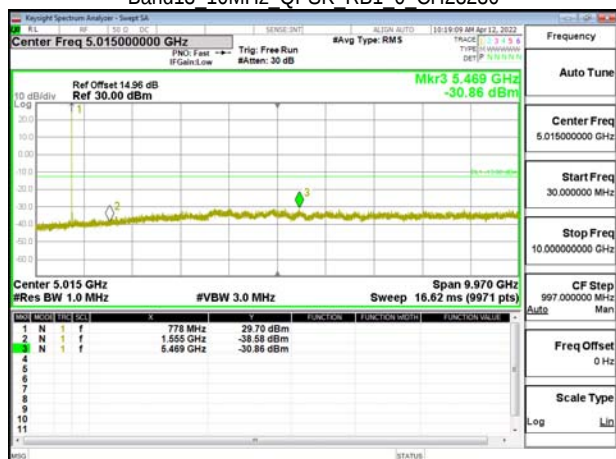


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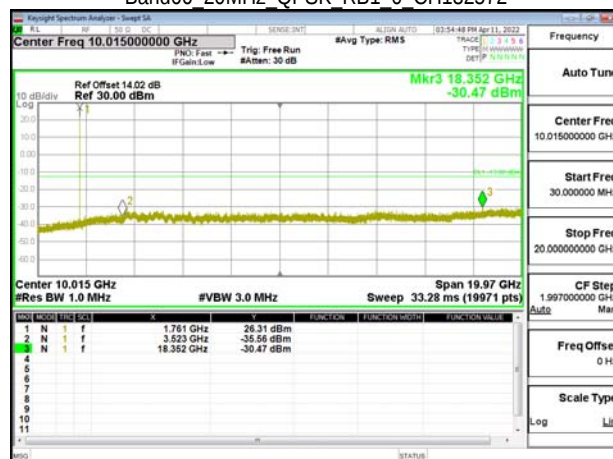
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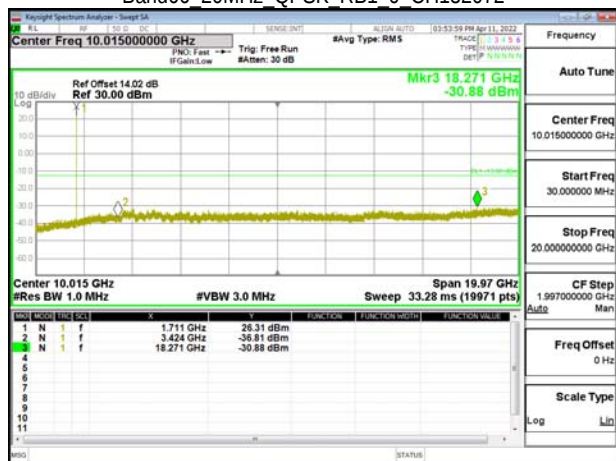
Band13 10MHz QPSK RB1 0 CH23230



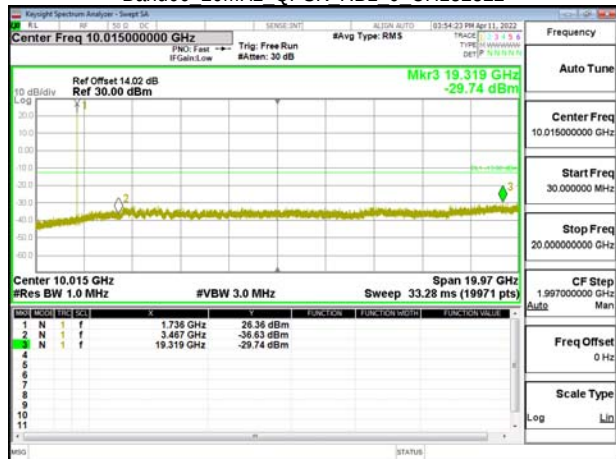
Band66 20MHz QPSK RB1 0 CH132572



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.

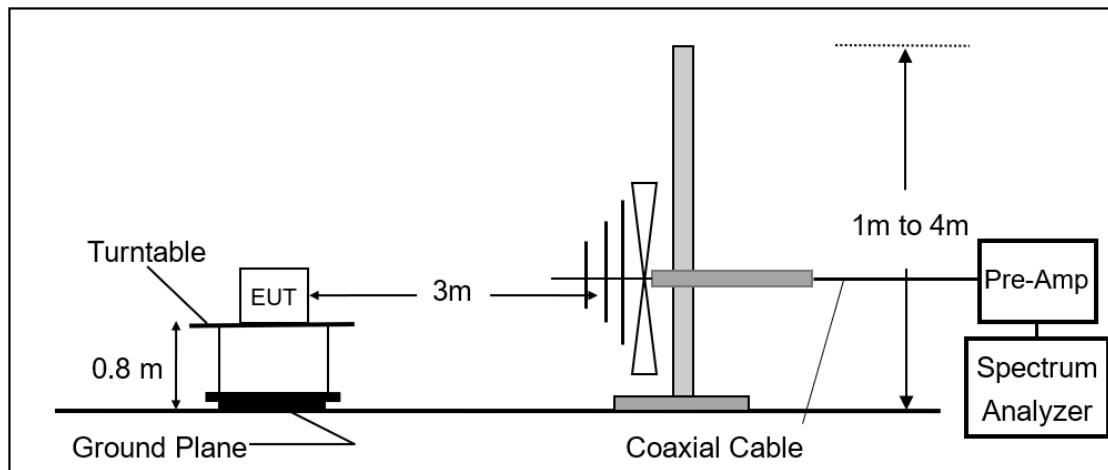
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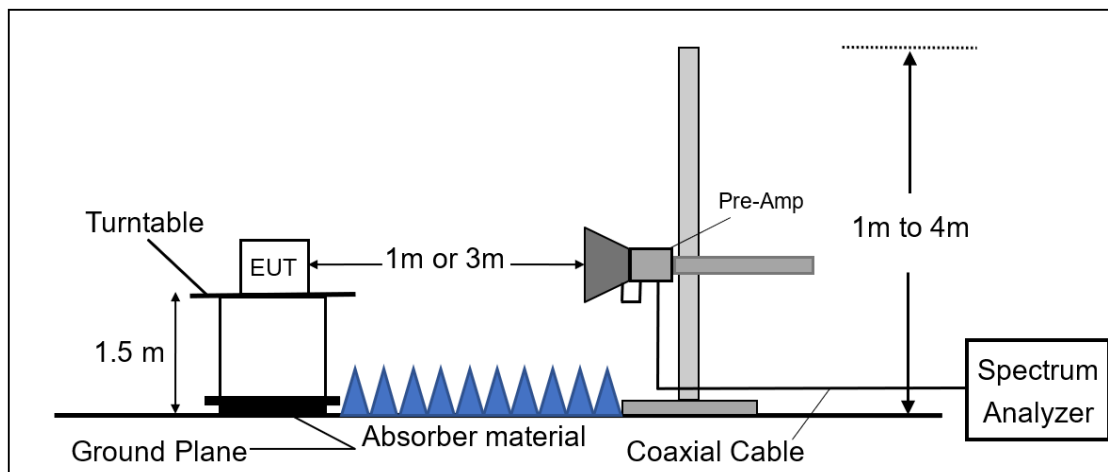
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10.2 EUT Setup

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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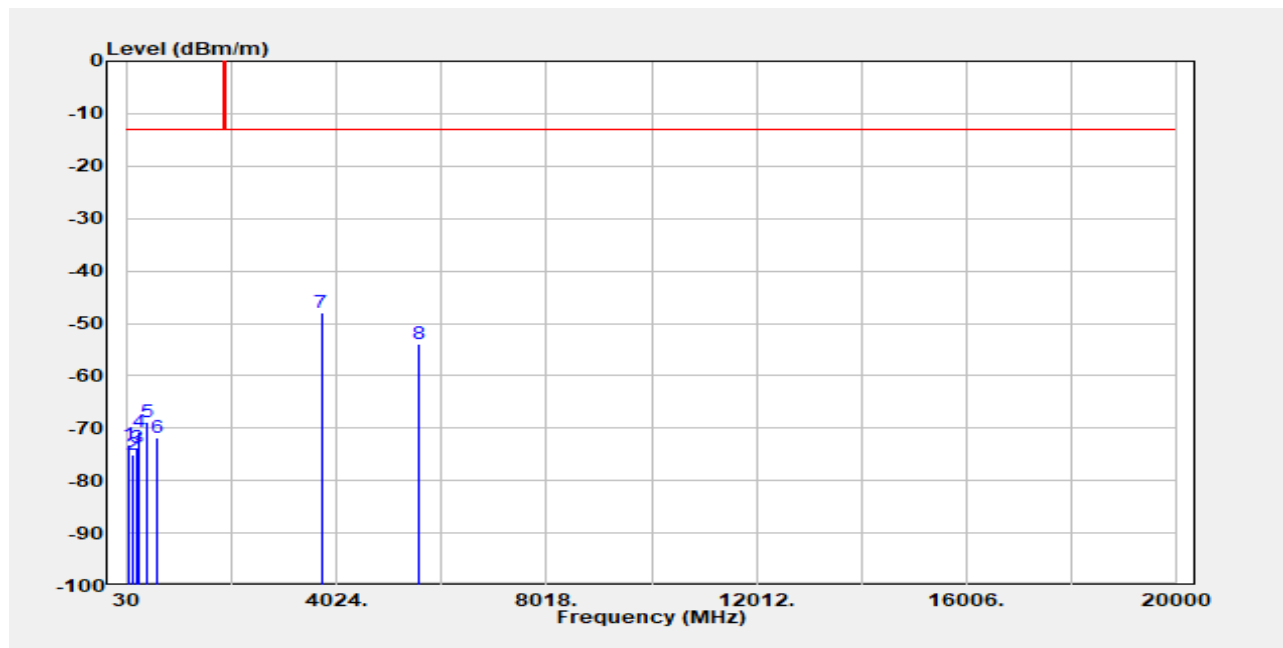
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10.4 Measurement Result:

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

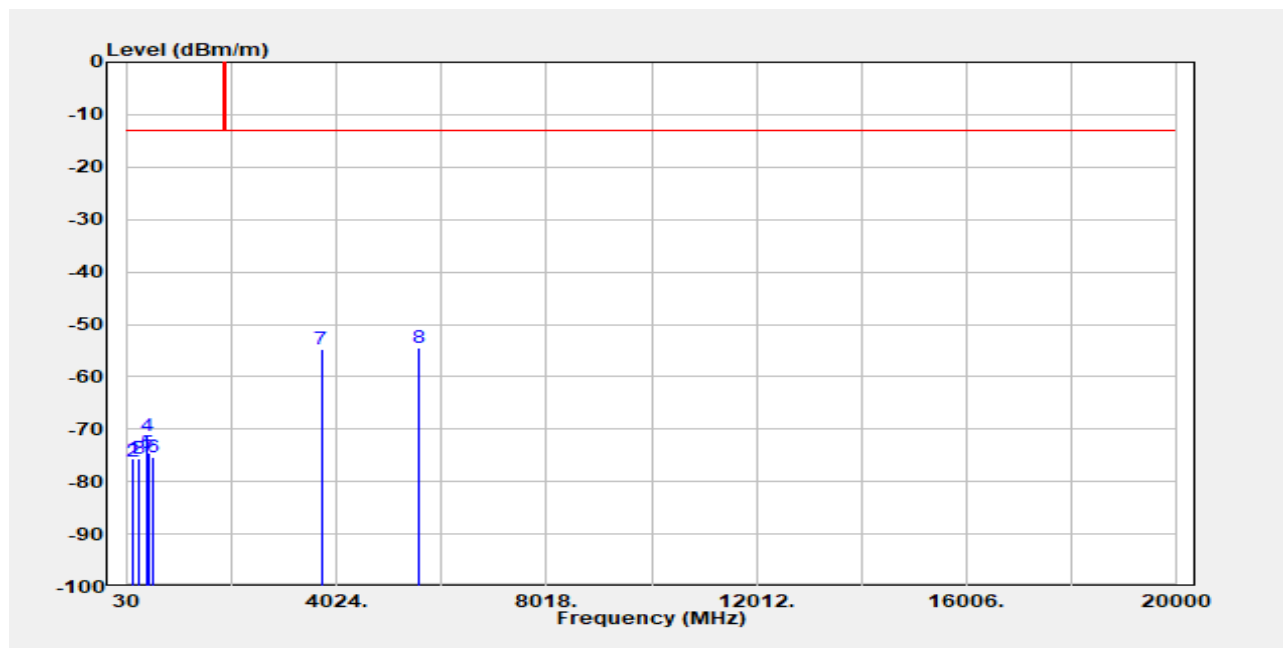
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1860 MHz

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

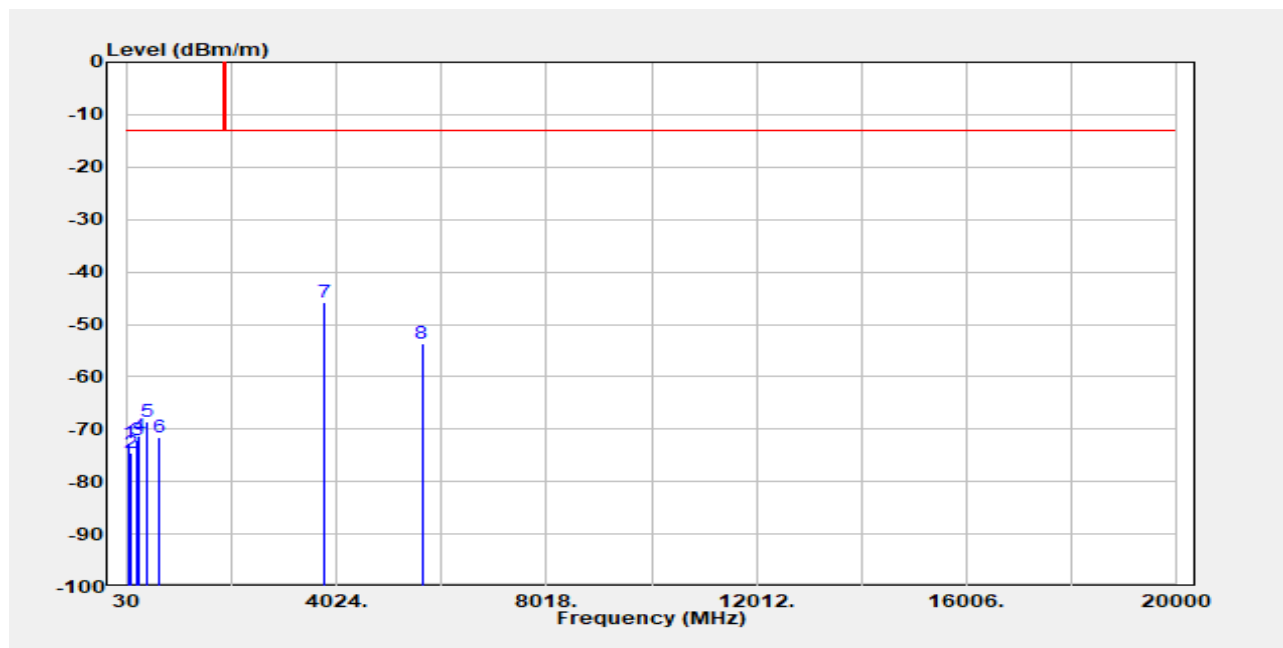
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

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

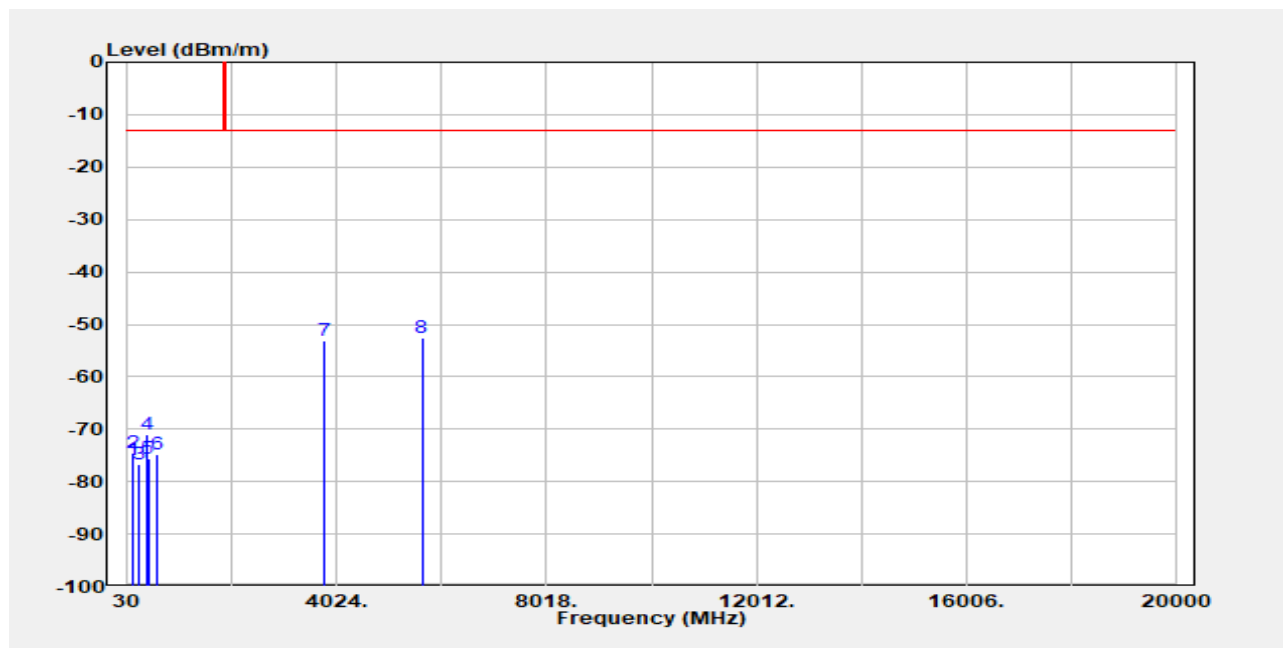
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

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

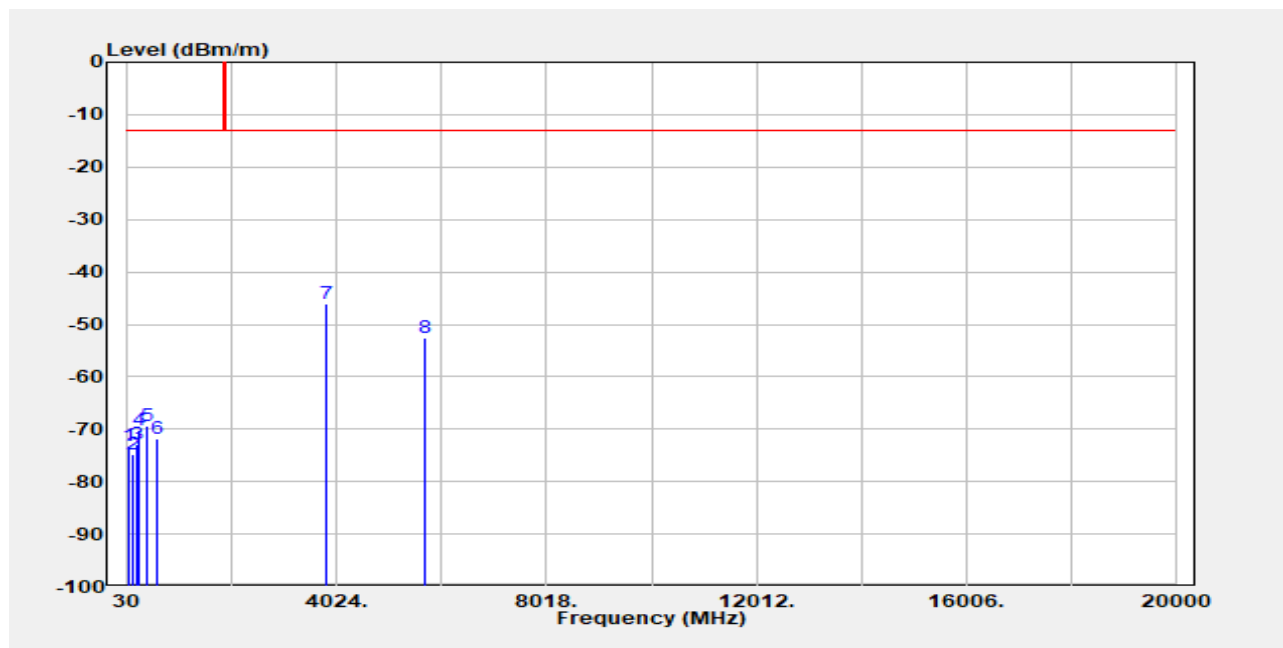
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Report Number :ER/2022/30082
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :1900 MHz

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

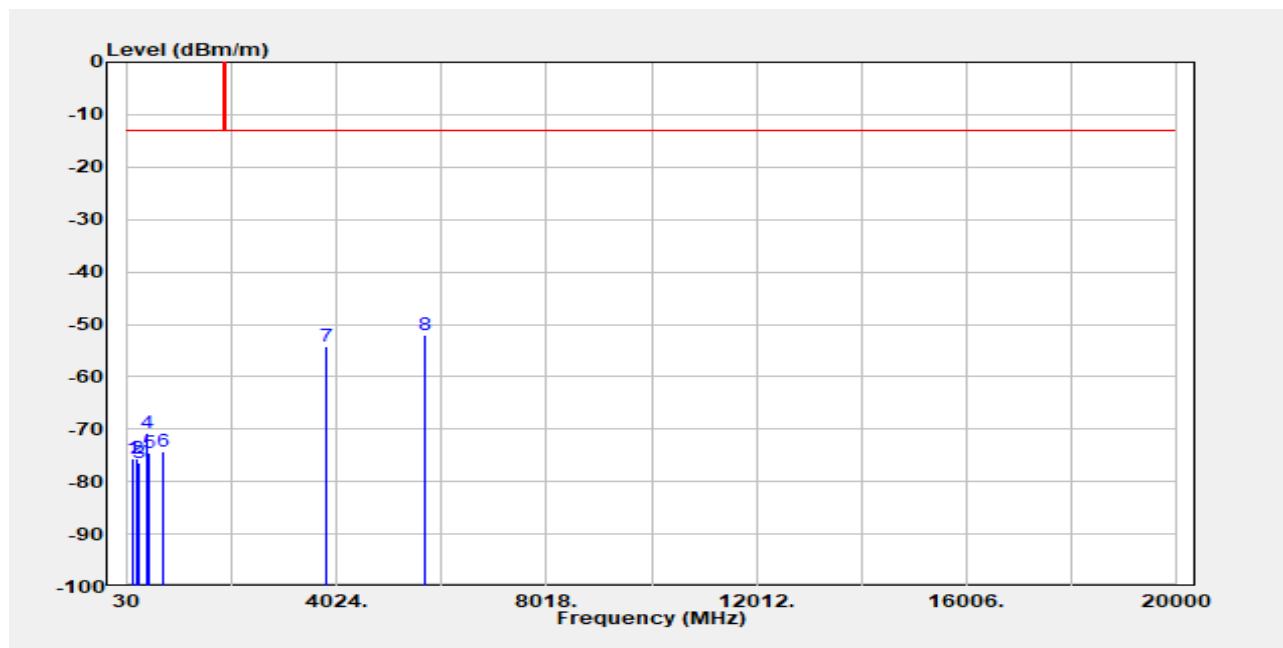
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Report Number :ER/2022/30082
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1900 MHz

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

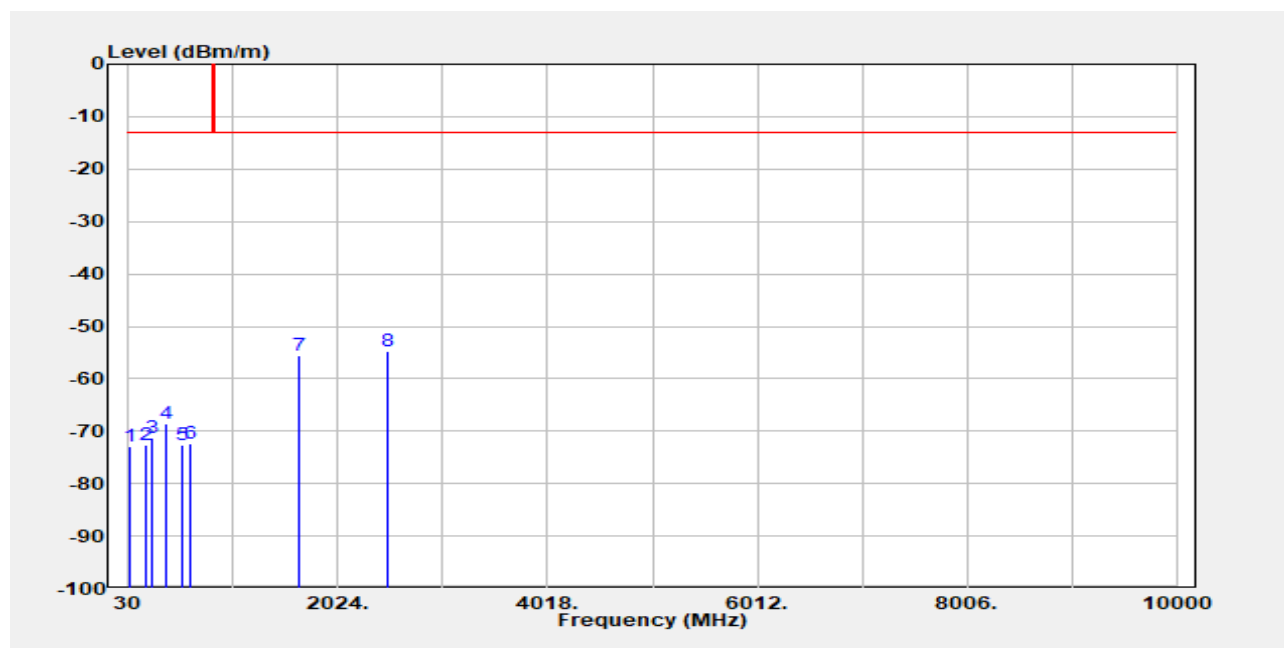
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :829 MHz

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

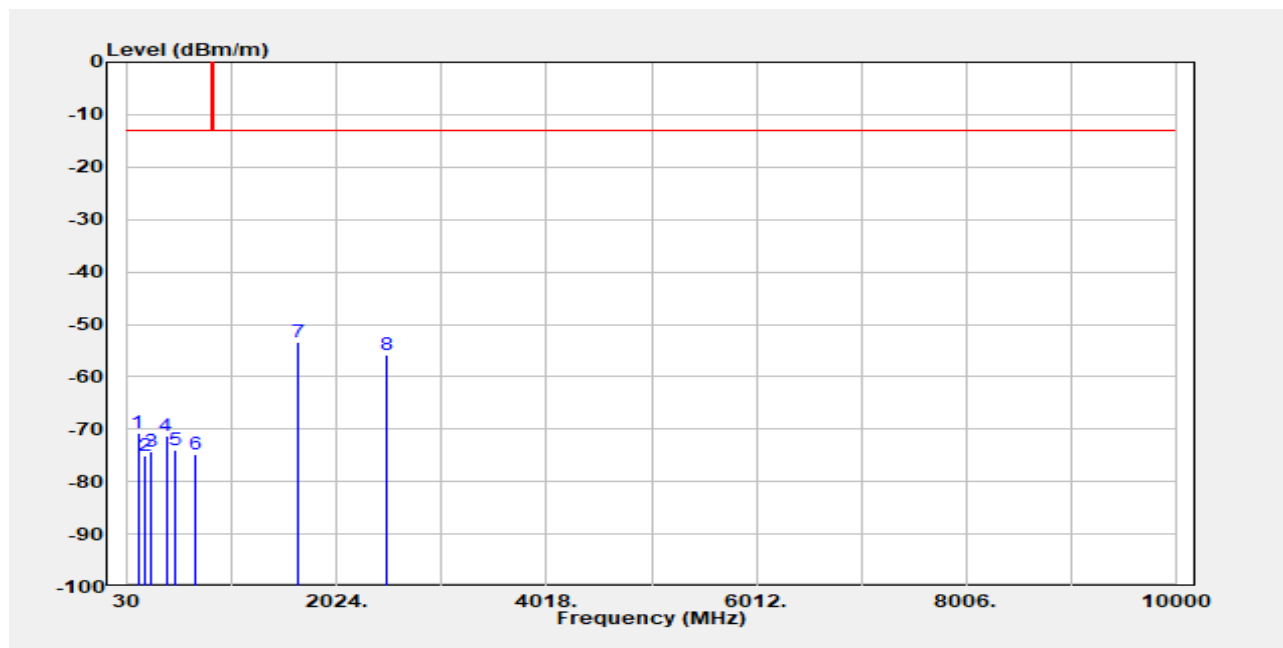
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Report Number :ER/2022/30082
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :829 MHz

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

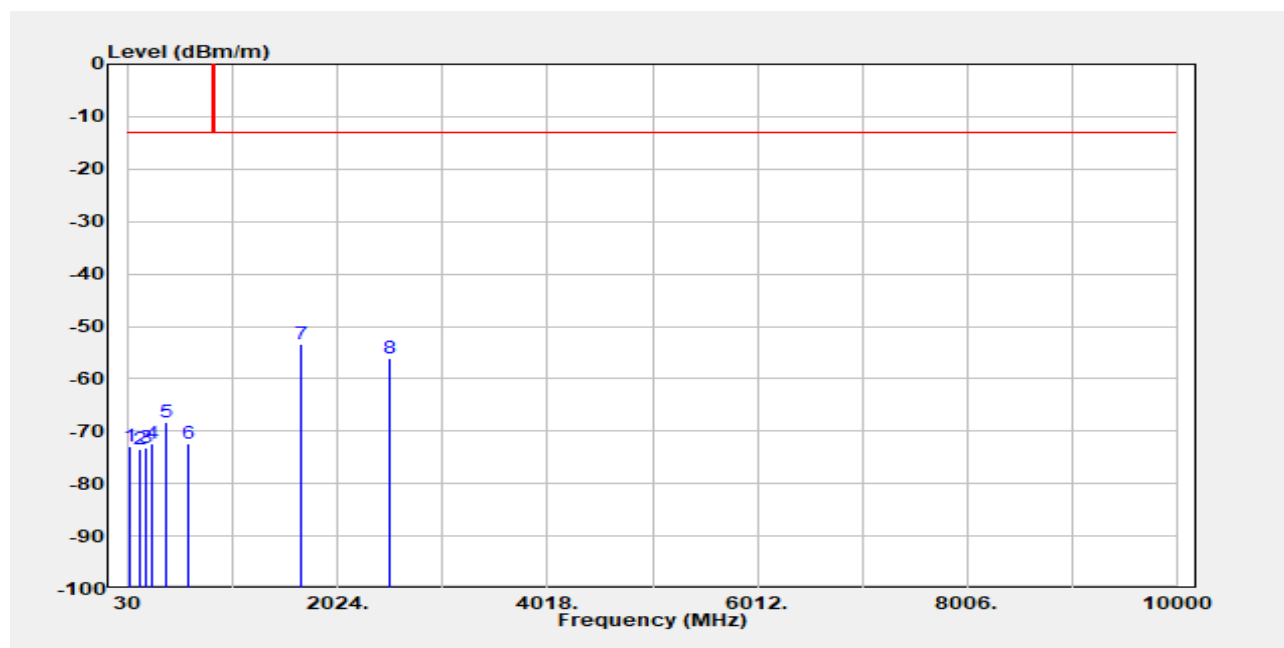
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.5 MHz

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

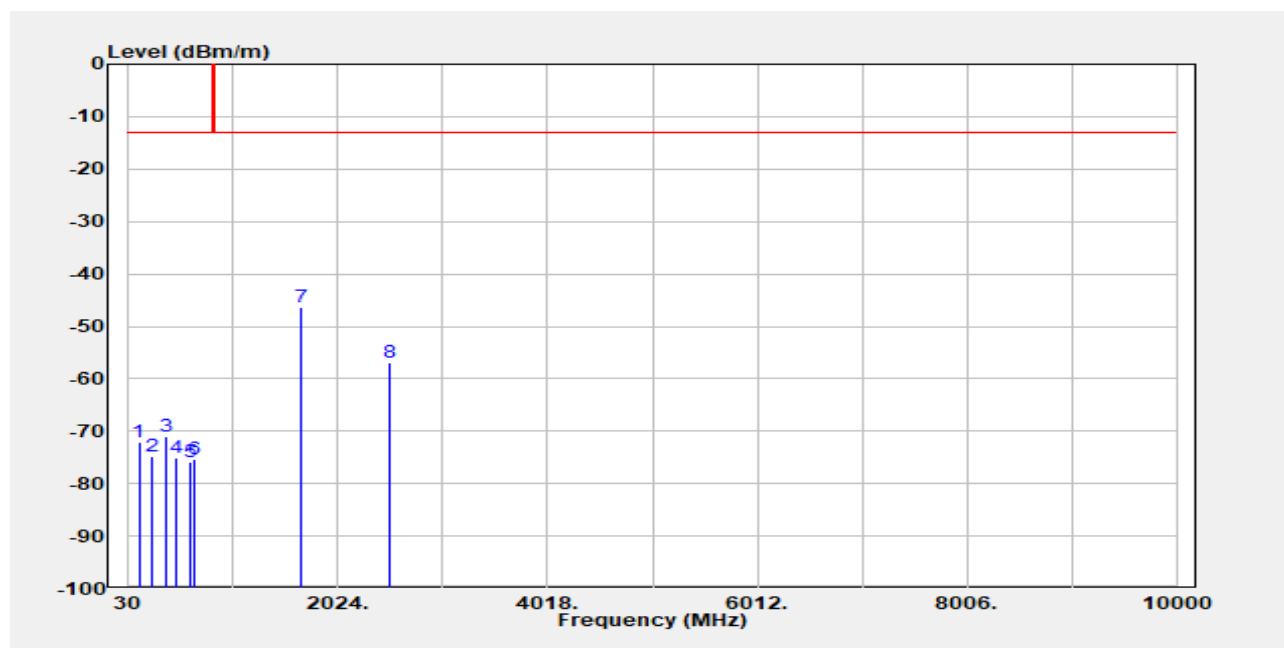
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.5 MHz

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

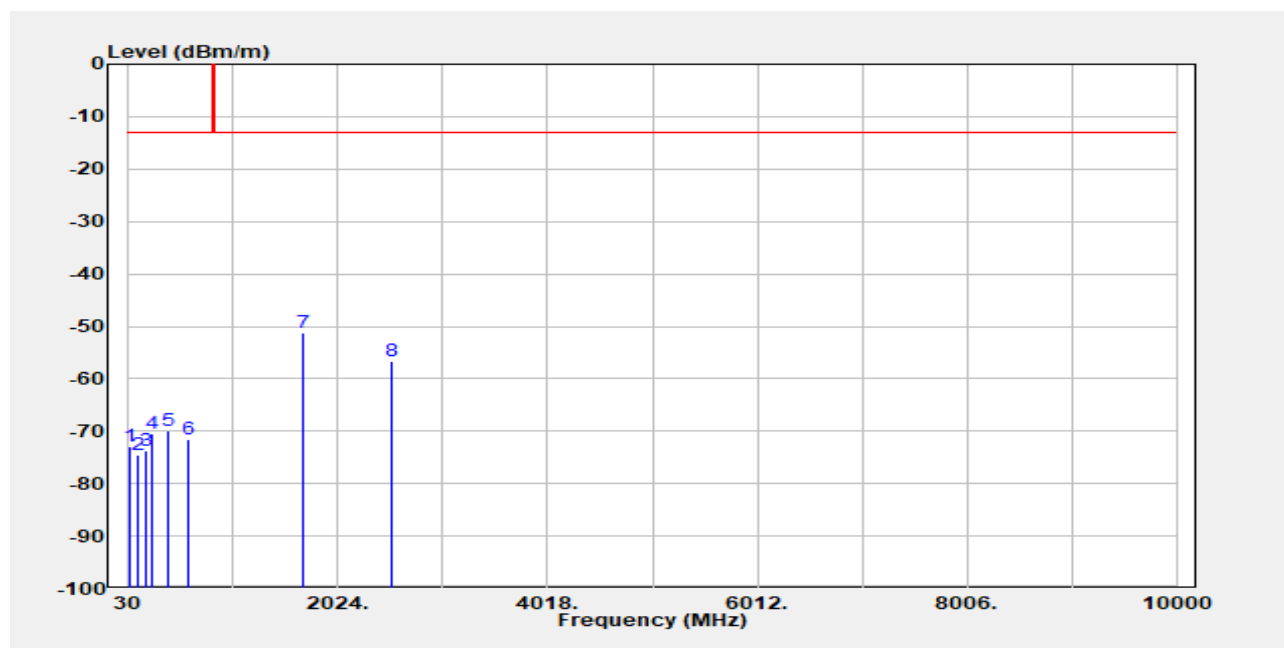
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :844 MHz

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

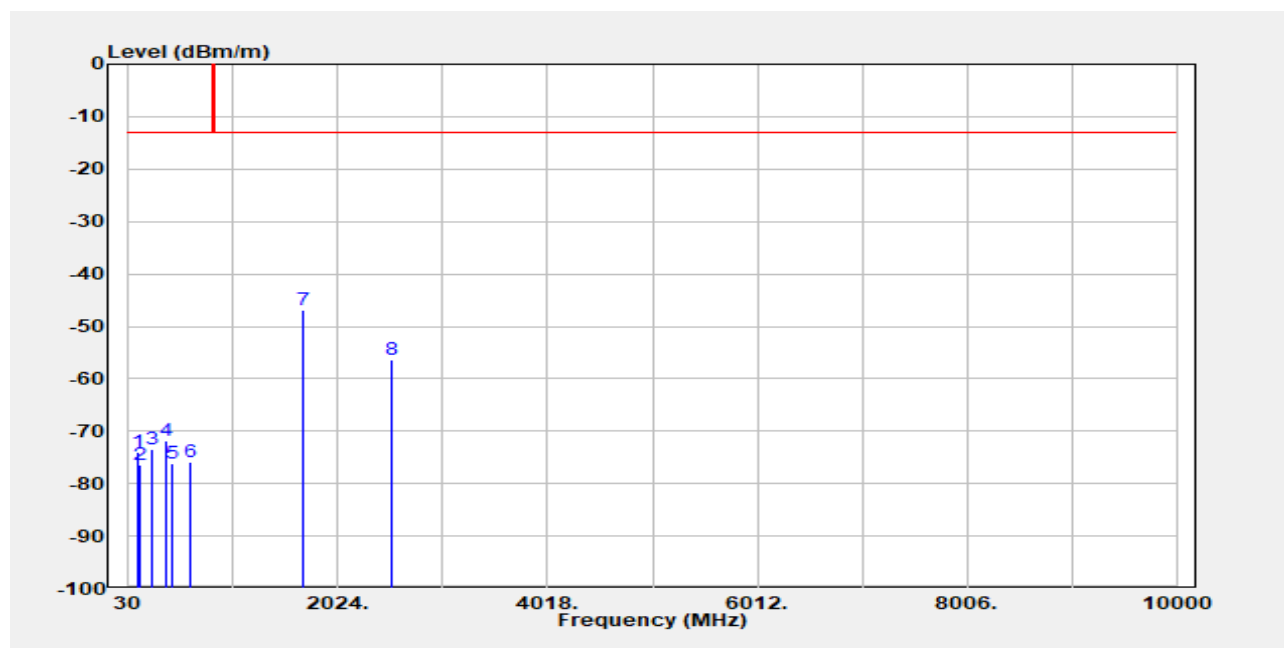
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Report Number :ER/2022/30082
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :844 MHz

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

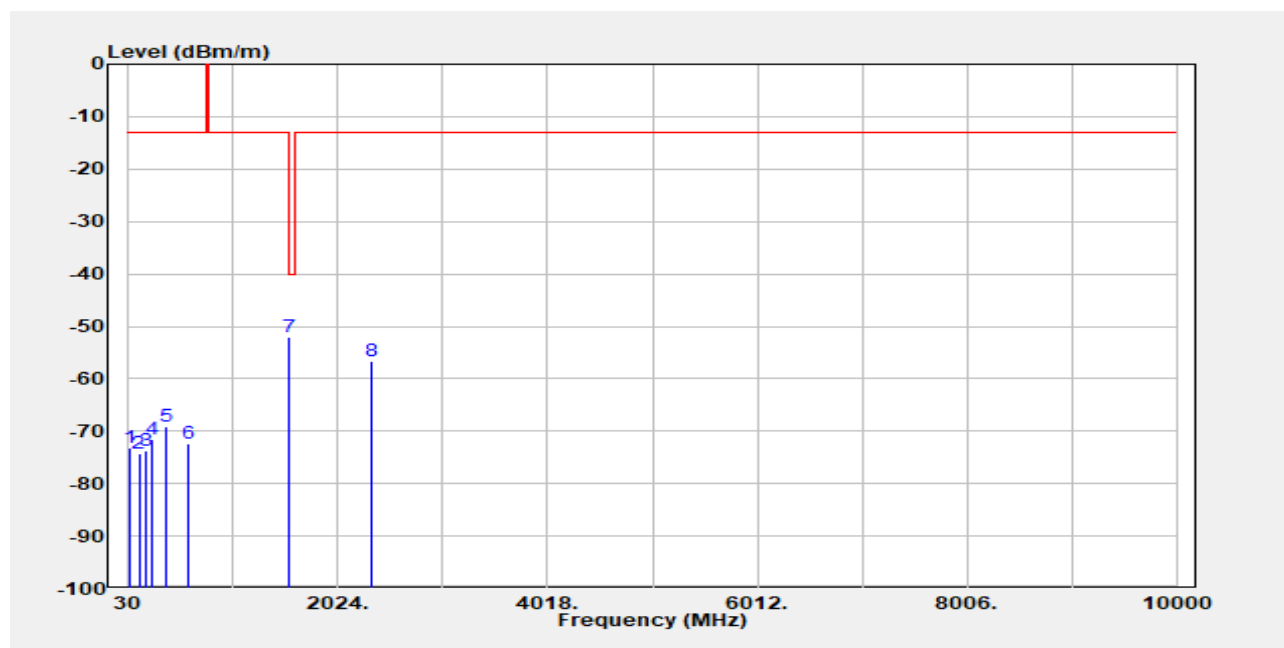
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Report Number :ER/2022/30082
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :782 MHz

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

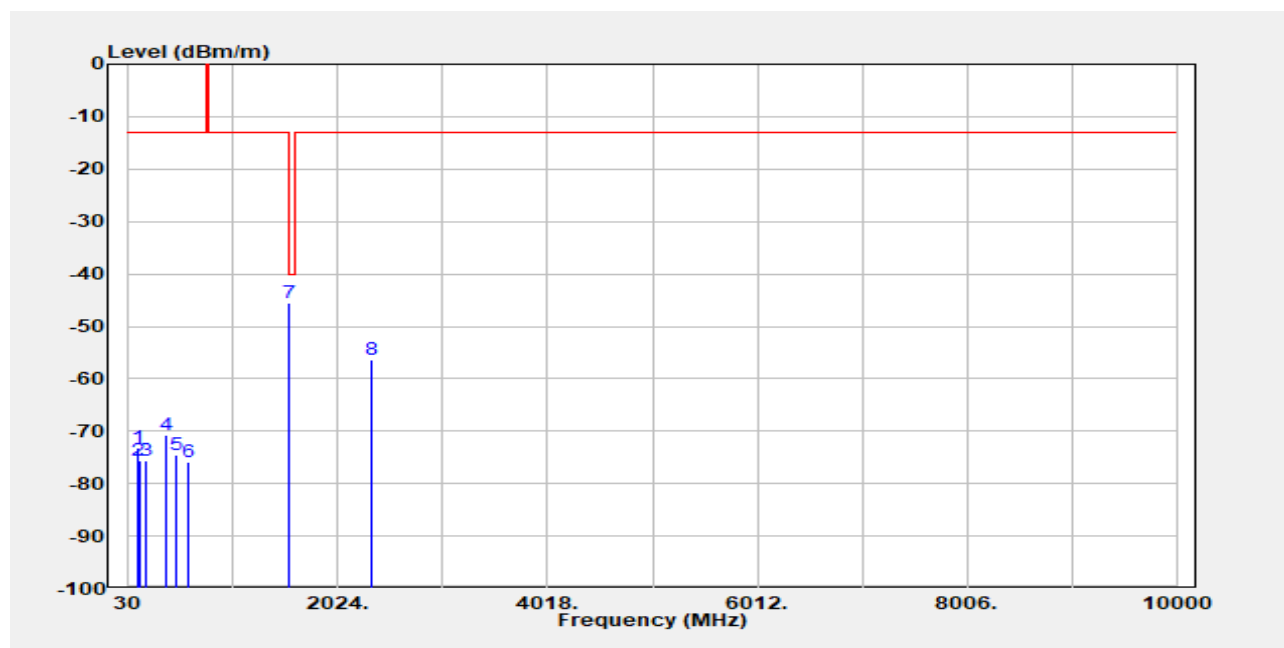
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Report Number :ER/2022/30082
 Operation Mode :LTE B13
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :782 MHz

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

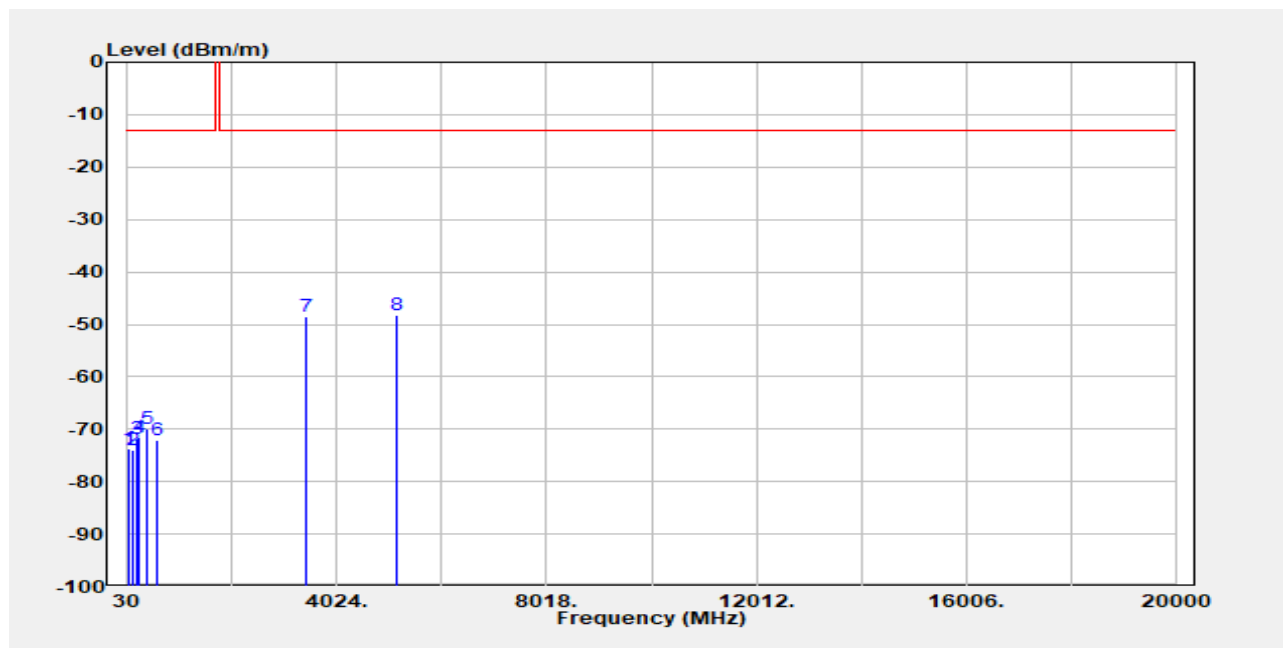
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1720 MHz

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

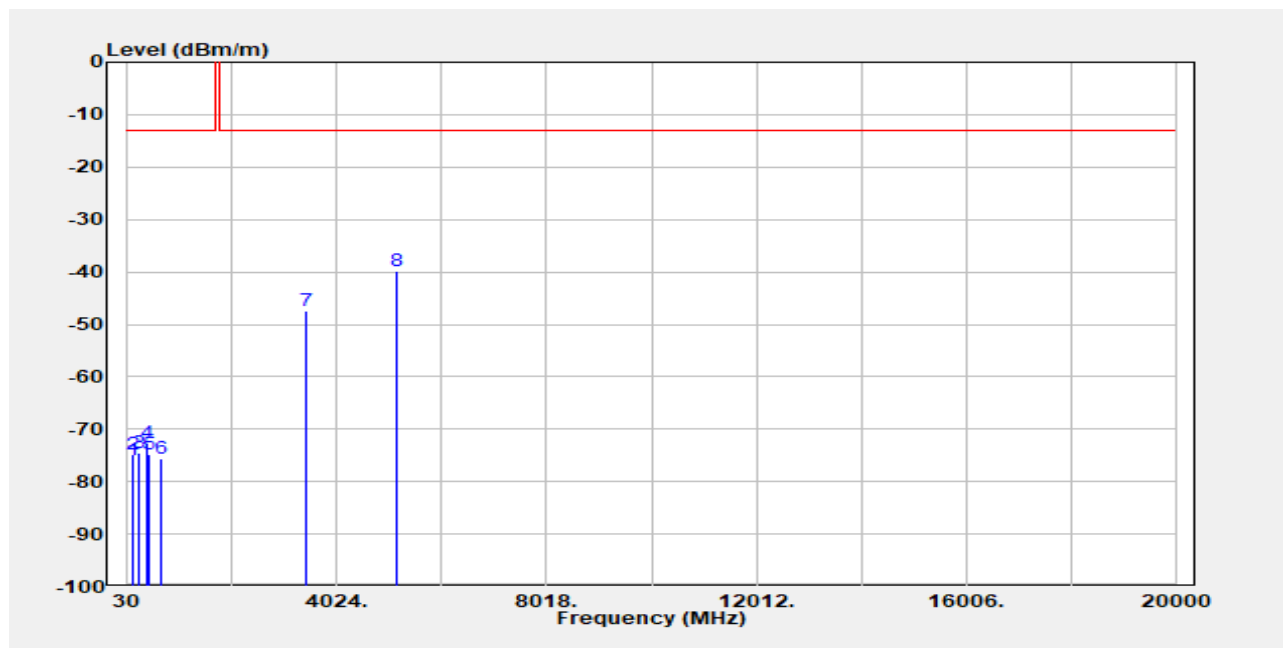
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1720 MHz

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

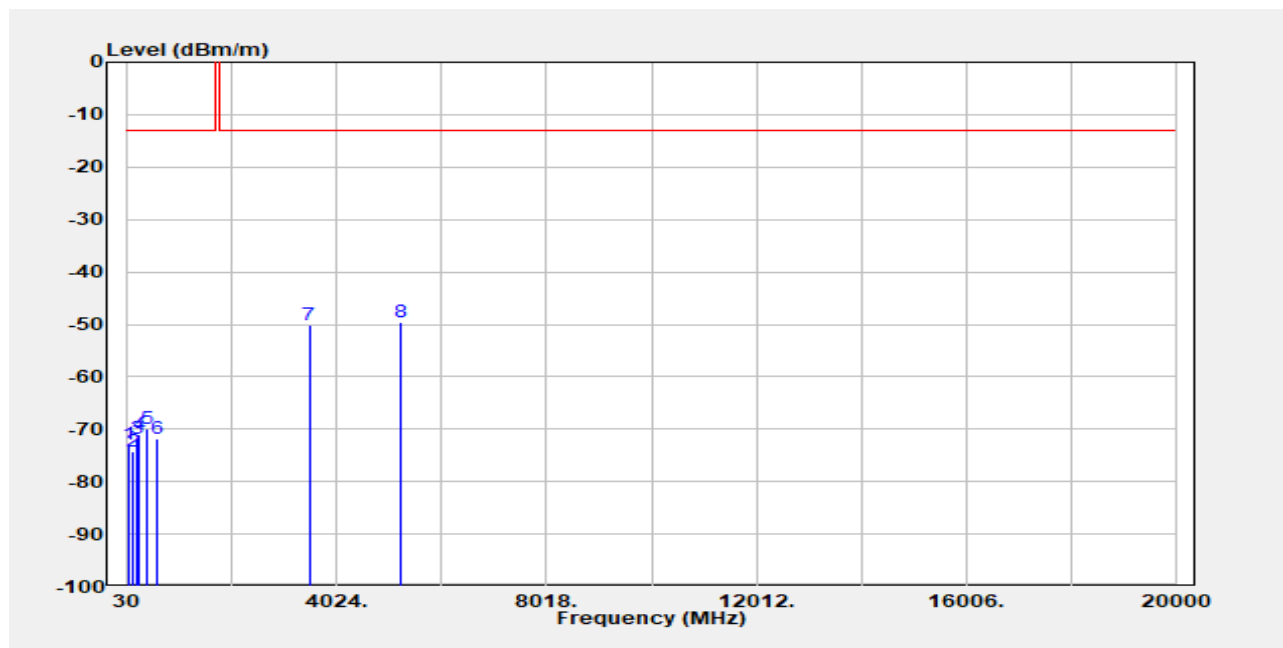
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1745 MHz

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

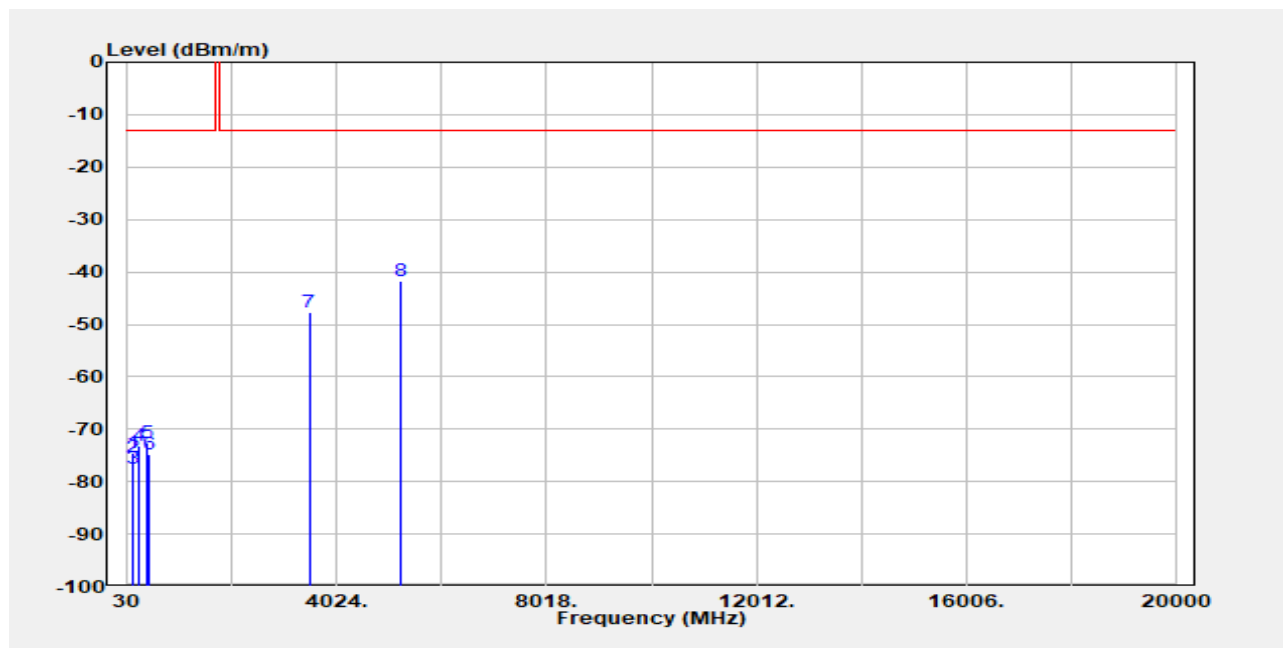
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Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1745 MHz

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

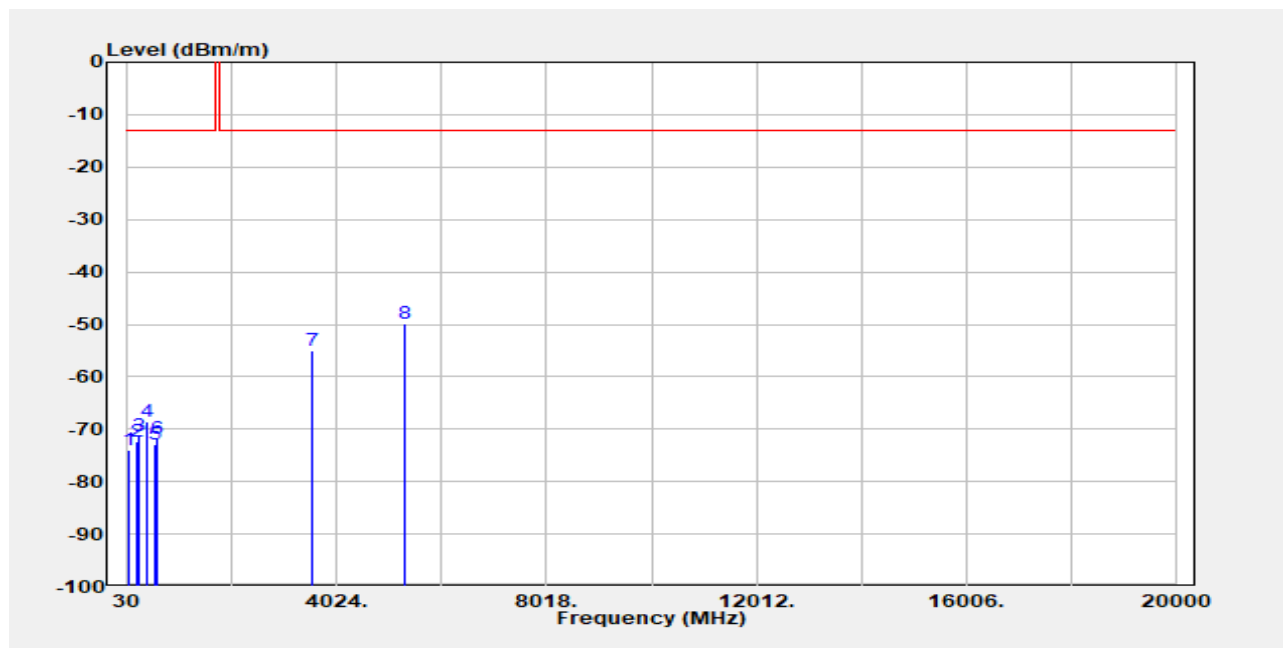
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Report Number :ER/2022/30082
Operation Mode :LTE B66
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1770 MHz

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

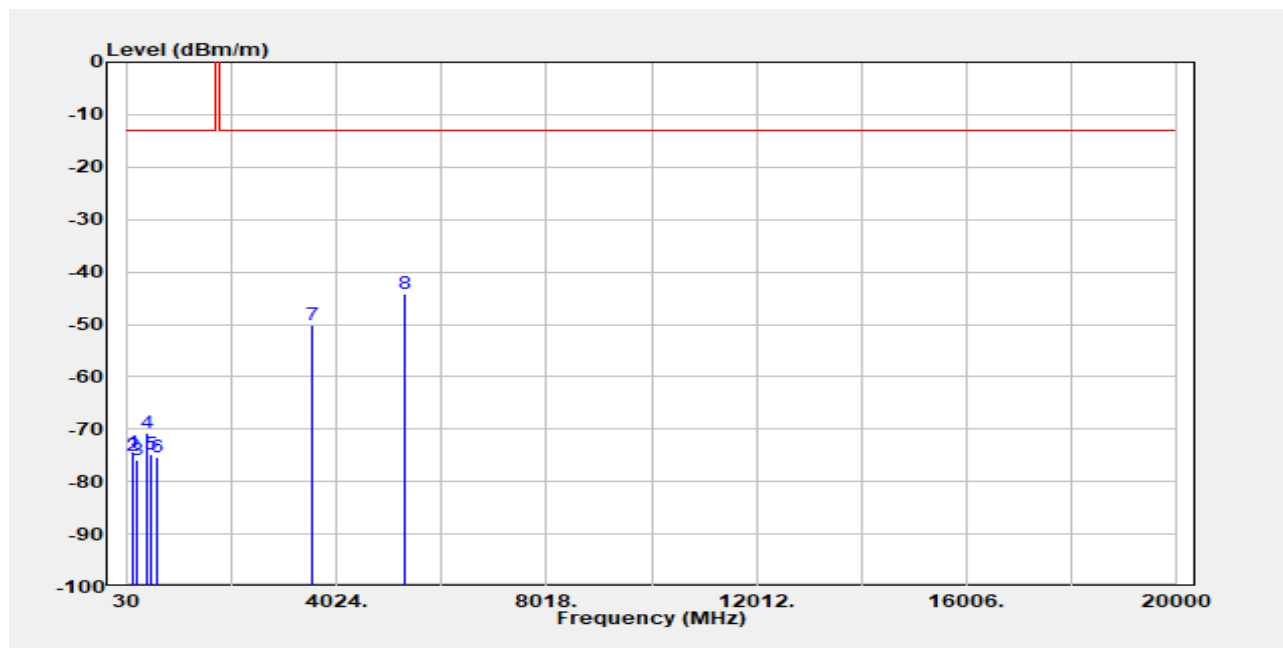
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 Test Frequency :1770 MHz

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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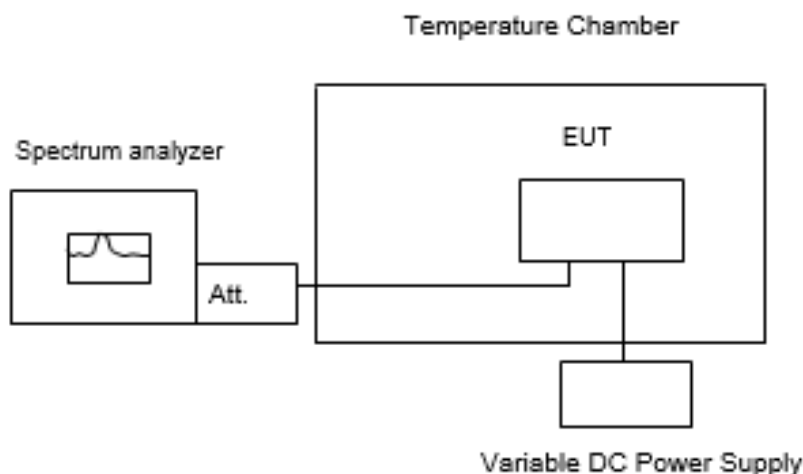
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11 FREQUENCY STABILITY MEASUREMENT

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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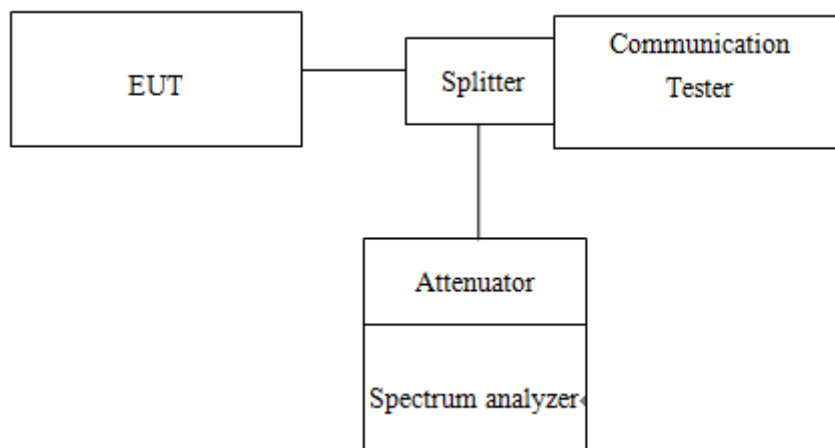
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12 PEAK TO AVERAGE RATIO

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



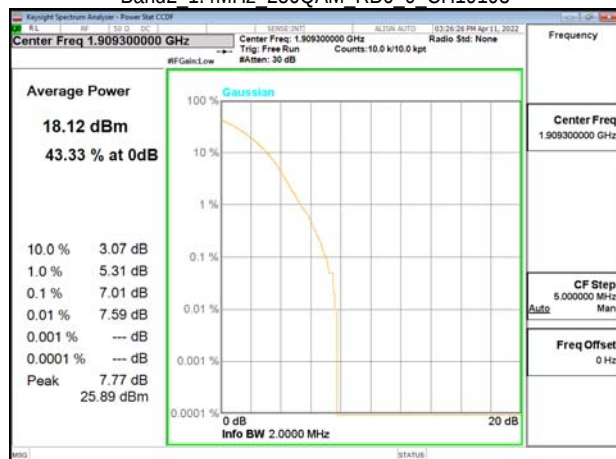
Band2 1.4MHz 256QAM RB6 0 CH18900



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



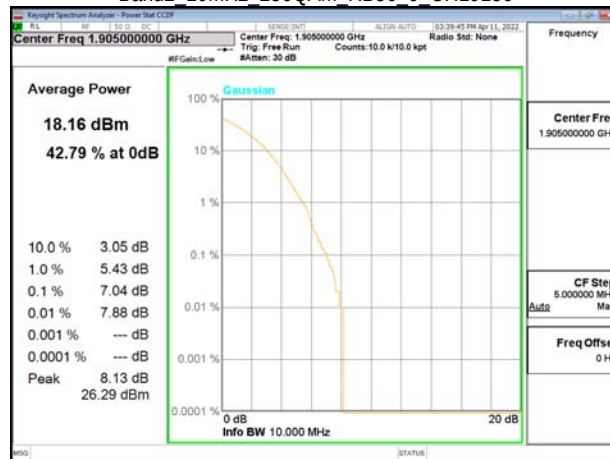
Band2 10MHz 256QAM RB50 0 CH18900



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



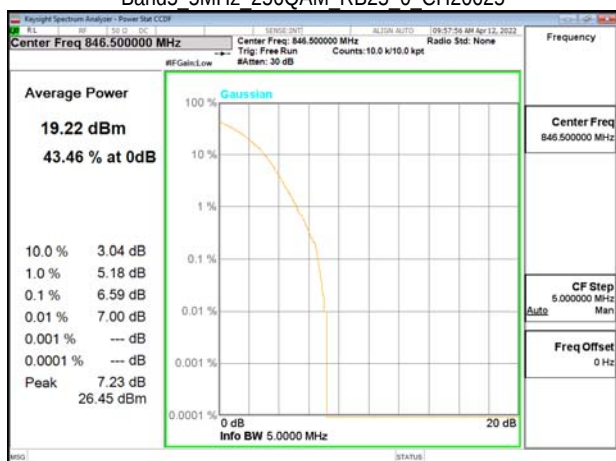
Band5 5MHz 256QAM RB25 0 CH20525



Band5 10MHz 256QAM RB50 0 CH20525



Band5 5MHz 256QAM RB25 0 CH20625



Band5 10MHz 256QAM RB50 0 CH20600



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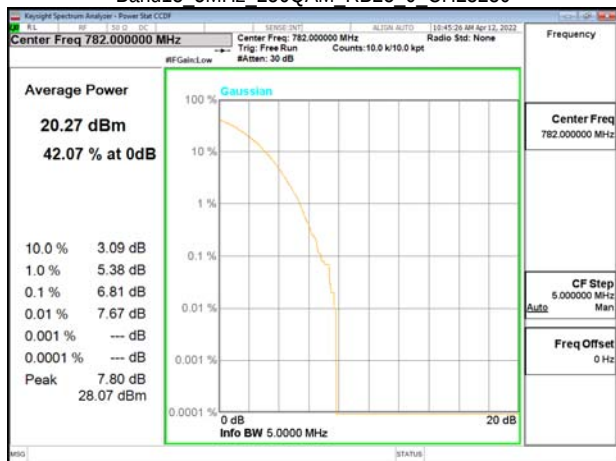
Band13 5MHz 256QAM RB25 0 CH23205



Band13 10MHz 256QAM RB50 0 CH23230



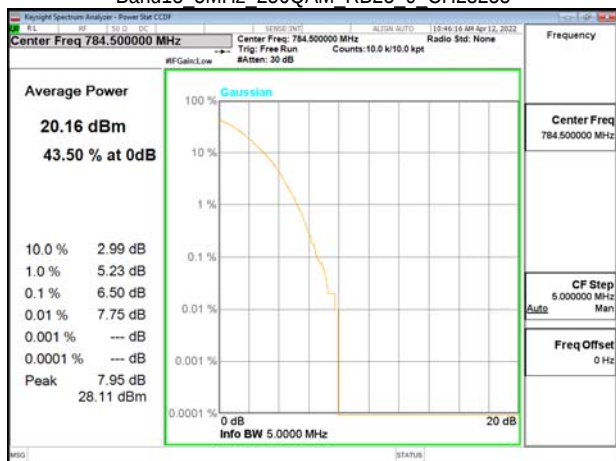
Band13 5MHz 256QAM RB25 0 CH23230



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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