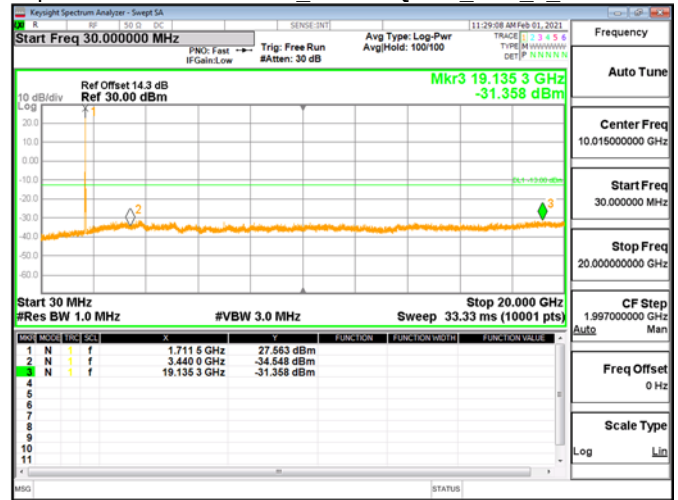


Spurious Emission\Band4 15MHz\QPSK RB1_0_CH20025



Spurious Emission\Band4 20MHz\QPSK RB1_0_CH20050



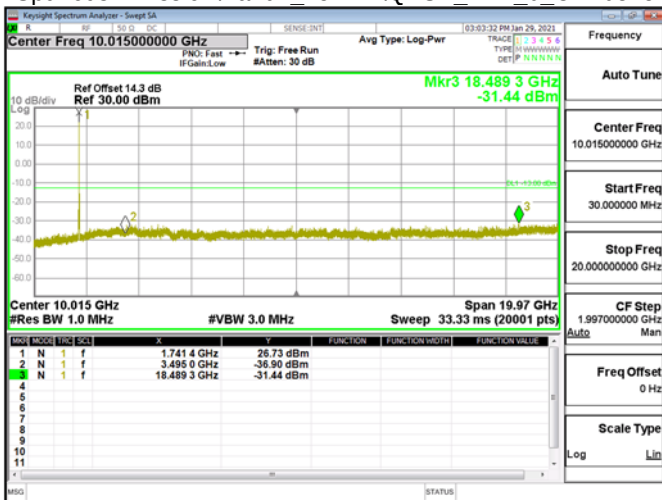
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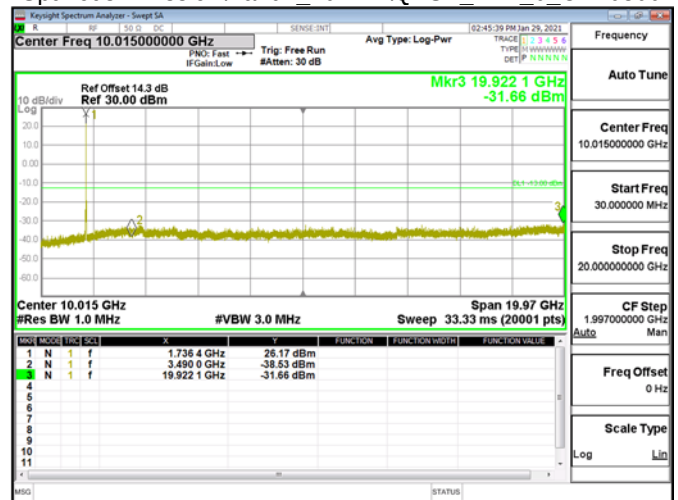
Spurious Emission\Band4 20MHz\QPSK RB1_0_CH20175



Spurious Emission\Band4 15MHz\QPSK RB1_0_CH20325



Spurious Emission\Band4 20MHz\QPSK RB1_0_CH20300

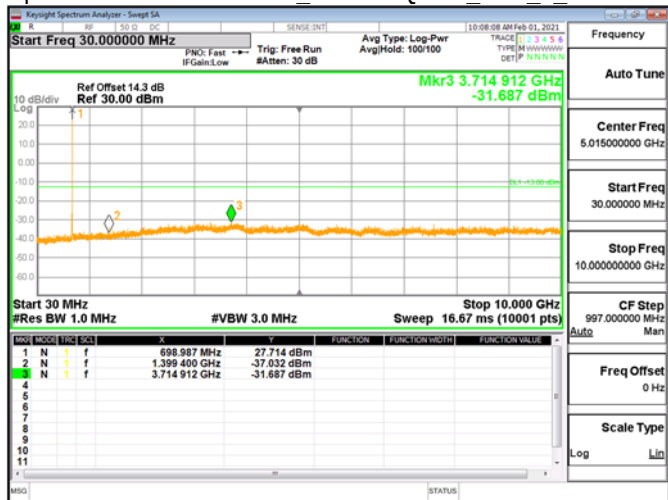


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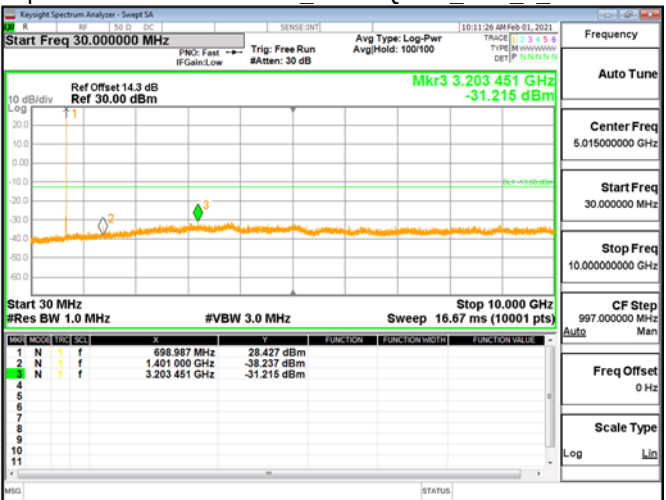
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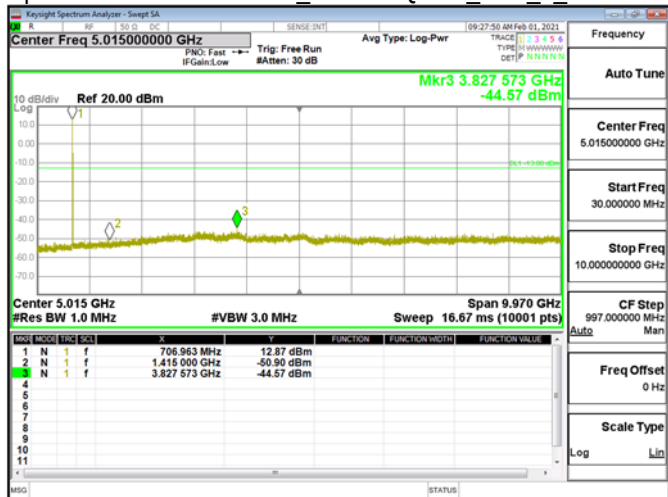
Spurious Emission\Band12_1.4MHz\QPSK_RB1_0_CH23017



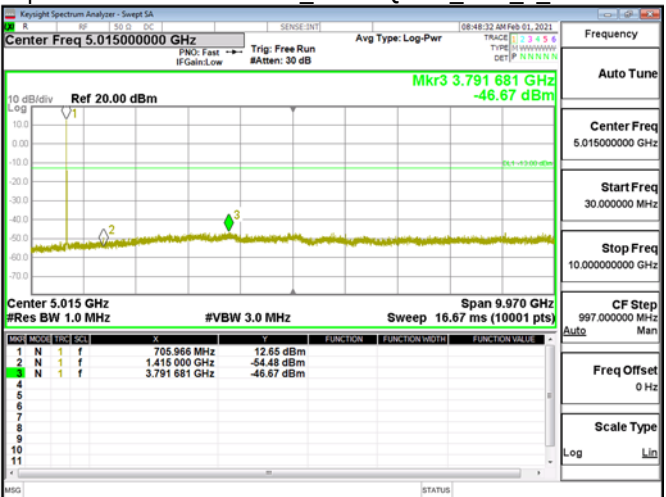
Spurious Emission\Band12_3MHz\QPSK_RB1_0_CH23025



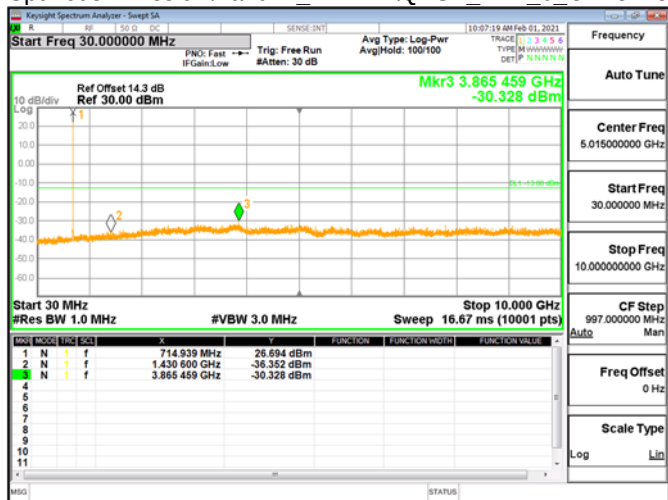
Spurious Emission\Band12_1.4MHz\QPSK_RB1_0_CH23095



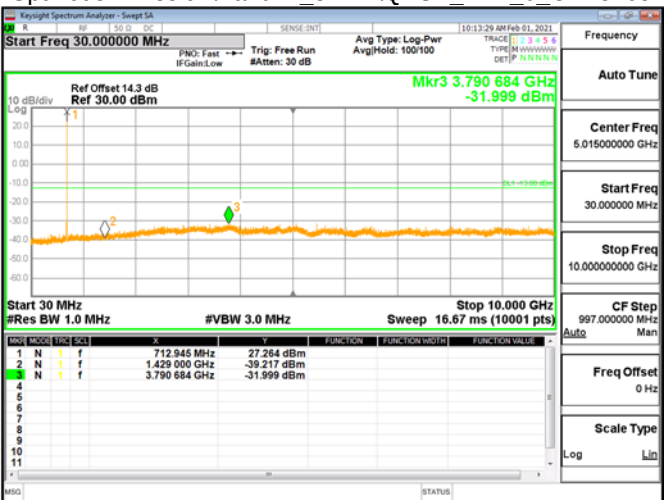
Spurious Emission\Band12_3MHz\QPSK_RB1_0_CH23095



Spurious Emission\Band12_1.4MHz\QPSK_RB1_0_CH23173



Spurious Emission\Band12_3MHz\QPSK_RB1_0_CH23165



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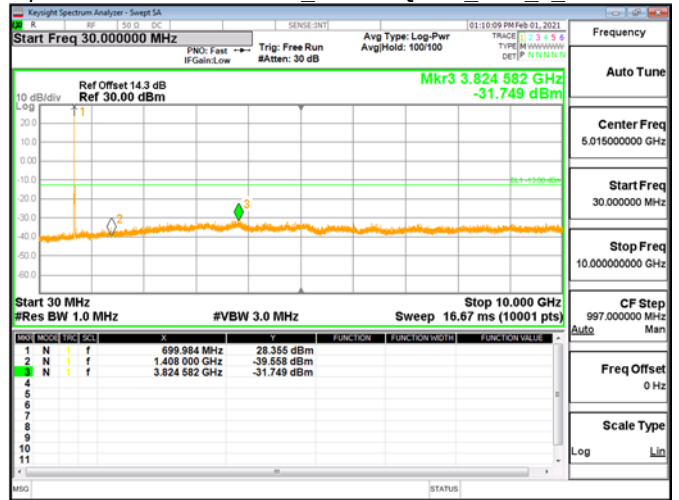
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Spurious Emission\Band12_5MHz\QPSK_RB1_0_CH23035



Spurious Emission\Band12_10MHz\QPSK_RB1_0_CH23060



Spurious Emission\Band12_5MHz\QPSK_RB1_0_CH23095



Spurious Emission\Band12_10MHz\QPSK_RB1_0_CH23095



Spurious Emission\Band12_5MHz\QPSK_RB1_0_CH23155



Spurious Emission\Band12_10MHz\QPSK_RB1_0_CH23130



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §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(g) for LTE B12

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)(1) for LTE B4

(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.

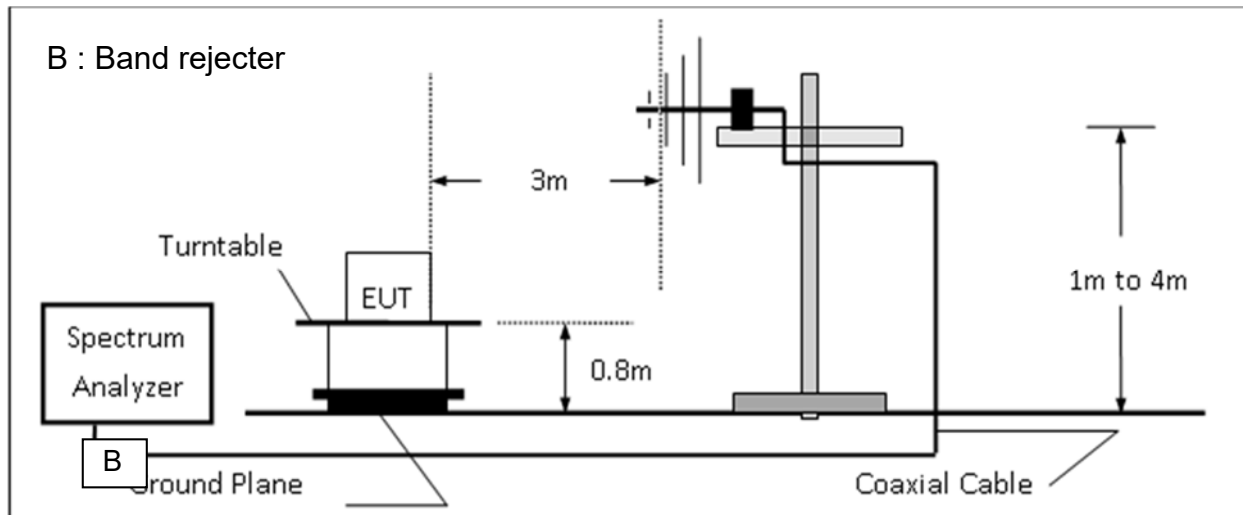
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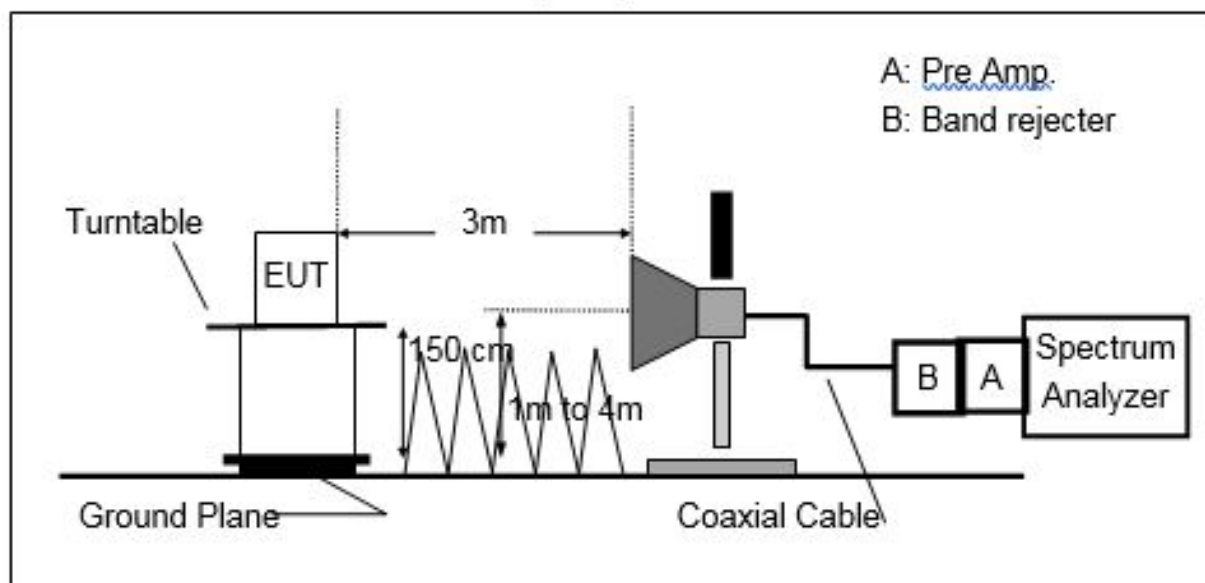
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

9.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/23/2020	07/22/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
High Pass Filter	WI	WHKX1.1/15G	RF172	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0037	RF177	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Notch Filter	EWT	EWT-54-0038	RF185	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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9.5 Measurement Result:

Report Number :E2/2021/10020

Test Site :966 Chamber C

Operation Mode :LTE B2

Test Date :2021-01-28

Test Mode :TX CH LOW

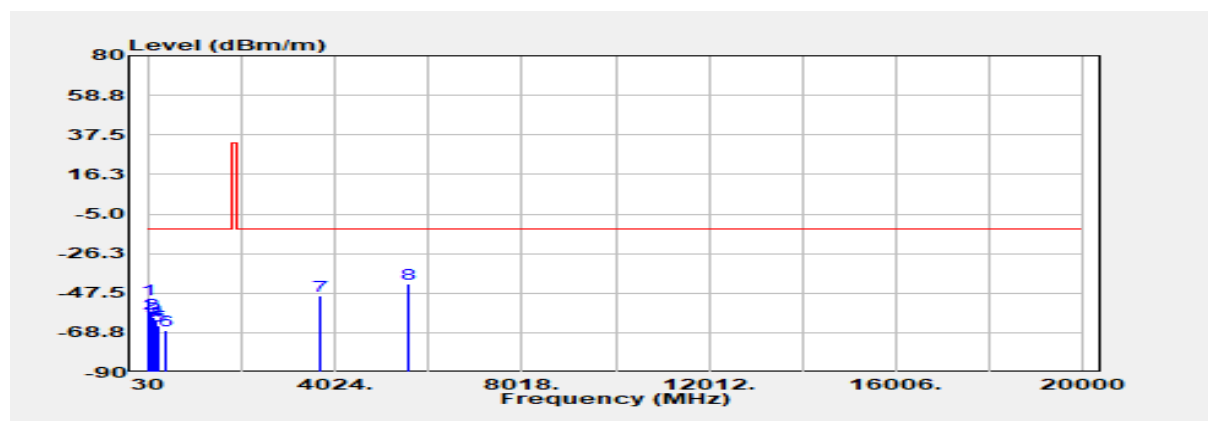
Temp./Humi. :22.7/44

EUT Pol :H Plan

Antenna Pol. :Vertical

Test Frequency :1857.5 MHz

Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.099	-51.01	-33.13	-17.58	-0.30	-13.00	-38.01
121.715	-58.62	-51.17	-6.84	-0.61	-13.00	-45.62
162.131	-60.81	-53.92	-6.24	-0.65	-13.00	-47.81
187.003	-62.54	-59.25	-2.50	-0.79	-13.00	-49.54
244.519	-65.15	-63.39	-0.85	-0.91	-13.00	-52.15
423.285	-67.73	-65.76	-0.74	-1.23	-13.00	-54.73
3715.000	-48.73	-53.15	12.33	-7.91	-13.00	-35.73
5572.500	-42.23	-46.64	12.95	-8.54	-13.00	-29.23

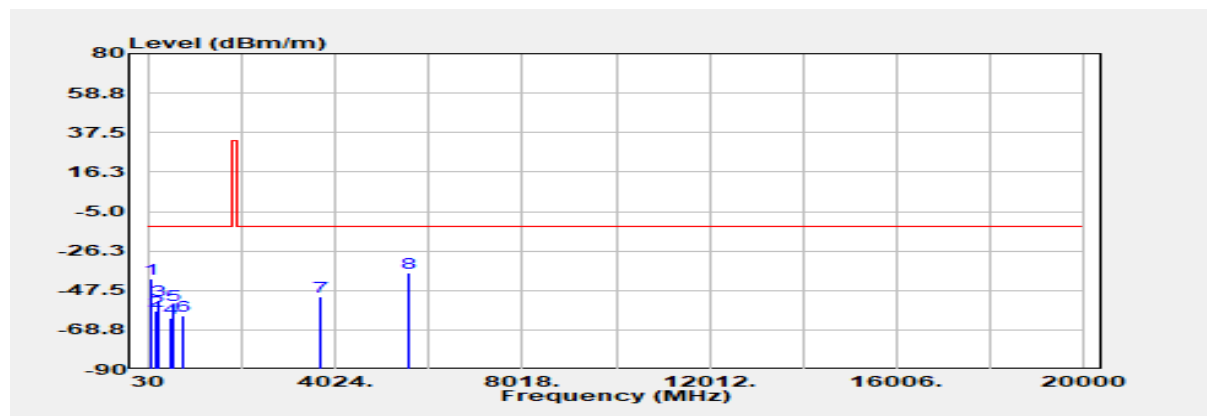
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Report Number :E2/2021/10020
Operation Mode :LTE B2
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Frequency :1857.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :22.7/44
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
90.625	-41.18	-35.18	-5.51	-0.49	-13.00	-28.18
183.894	-58.41	-54.59	-3.06	-0.76	-13.00	-45.41
283.381	-52.52	-50.54	-1.06	-0.92	-13.00	-39.52
536.763	-62.59	-60.75	-0.78	-1.06	-13.00	-49.59
594.279	-55.37	-52.87	-1.15	-1.35	-13.00	-42.37
791.699	-61.15	-58.13	-1.50	-1.52	-13.00	-48.15
3715.000	-50.74	-55.16	12.33	-7.91	-13.00	-37.74
5572.500	-38.07	-42.48	12.95	-8.54	-13.00	-25.07

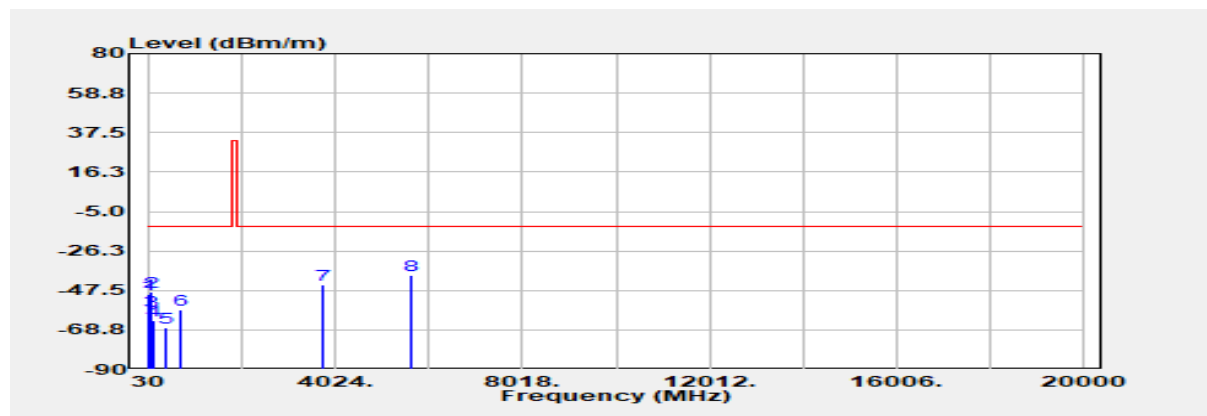
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Report Number :E2/2021/10020
Operation Mode :LTE B2
Test Mode :TX CH MID
EUT Pol :H Plan
Test Frequency :1880 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.872	-49.89	-33.78	-15.75	-0.36	-13.00	-36.89
95.288	-48.55	-42.68	-5.36	-0.51	-13.00	-35.55
121.715	-58.50	-51.05	-6.84	-0.61	-13.00	-45.50
162.131	-63.73	-56.84	-6.24	-0.65	-13.00	-50.73
423.285	-67.85	-65.88	-0.74	-1.23	-13.00	-54.85
746.619	-57.93	-54.70	-1.51	-1.72	-13.00	-44.93
3760.000	-44.31	-48.68	12.40	-8.03	-13.00	-31.31
5640.000	-39.11	-43.21	13.00	-8.90	-13.00	-26.11

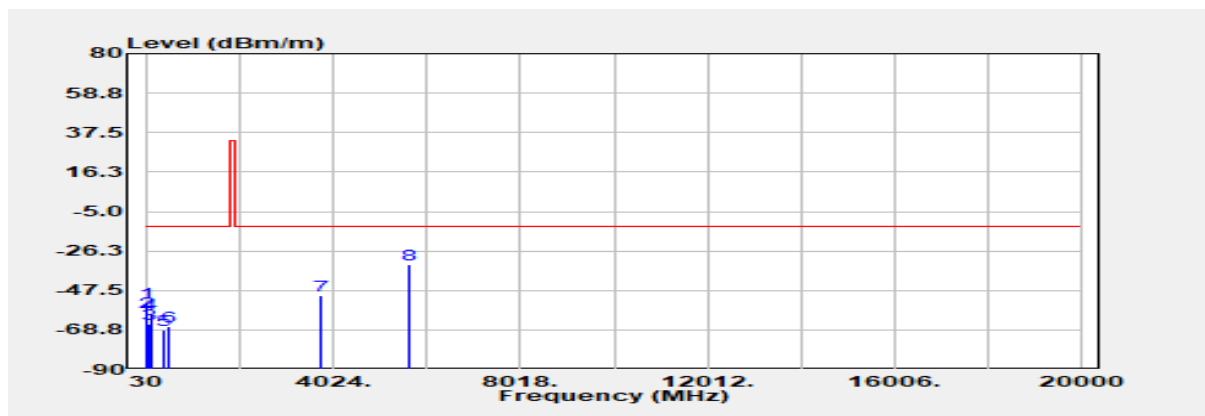
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Report Number :E2/2021/10020
Operation Mode :LTE B2
Test Mode :TX CH MID
EUT Pol :H Plan
Test Frequency :1880 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.763	-53.85	-37.04	-16.48	-0.33	-13.00	-40.85
57.981	-59.06	-43.51	-15.17	-0.38	-13.00	-46.06
90.625	-65.65	-59.65	-5.51	-0.49	-13.00	-52.65
127.933	-60.02	-52.50	-6.91	-0.61	-13.00	-47.02
407.740	-68.93	-66.94	-0.63	-1.36	-13.00	-55.93
533.654	-66.84	-65.01	-0.79	-1.04	-13.00	-53.84
3760.000	-50.32	-54.69	12.40	-8.03	-13.00	-37.32
5640.000	-33.36	-37.46	13.00	-8.90	-13.00	-20.36

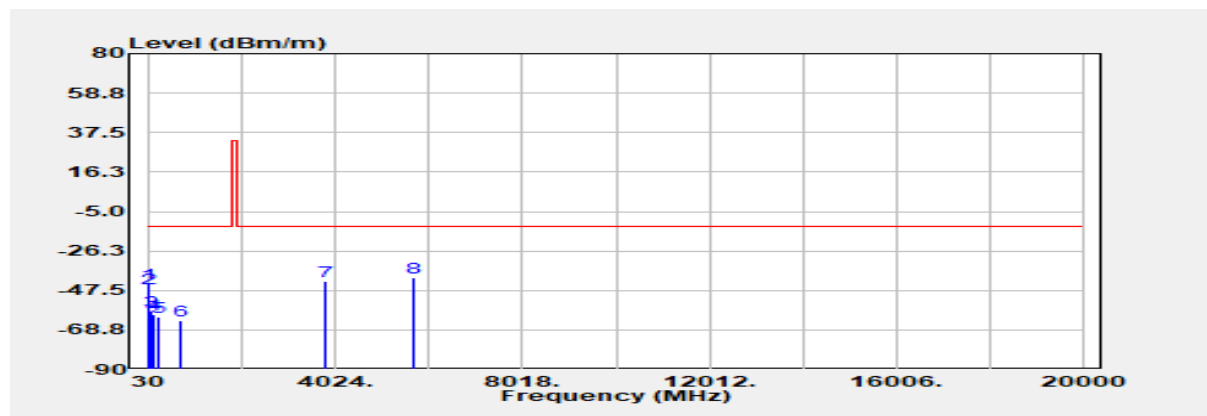
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Report Number :E2/2021/10020
Operation Mode :LTE B2
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Frequency :1902.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.218	-43.50	-24.32	-18.93	-0.25	-13.00	-30.50
50.208	-46.35	-29.05	-16.98	-0.32	-13.00	-33.35
121.715	-58.48	-51.03	-6.84	-0.61	-13.00	-45.48
148.141	-60.48	-52.93	-6.89	-0.66	-13.00	-47.48
238.301	-61.47	-59.98	-0.63	-0.86	-13.00	-48.47
729.519	-63.79	-60.64	-1.17	-1.98	-13.00	-50.79
3805.000	-42.47	-45.69	12.39	-9.17	-13.00	-29.47
5707.500	-40.85	-44.56	12.80	-9.09	-13.00	-27.85

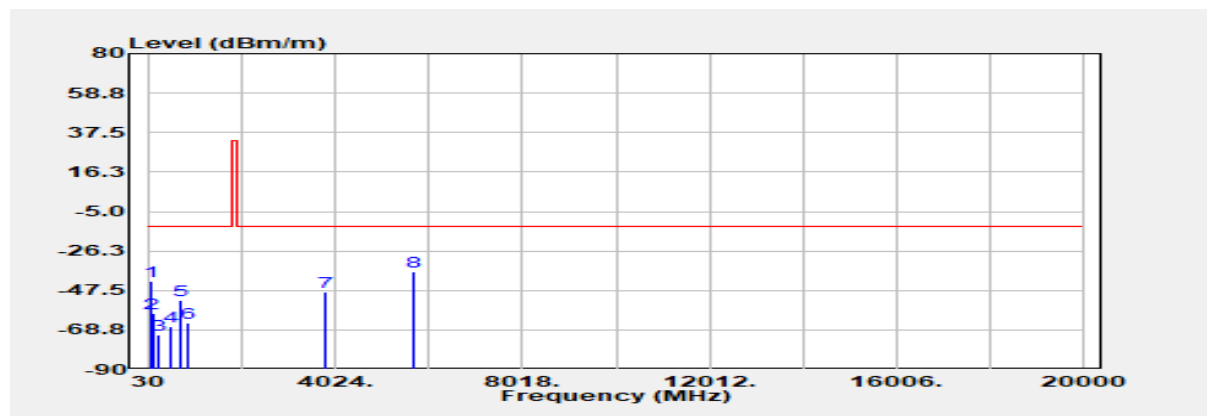
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Report Number :E2/2021/10020
Operation Mode :LTE B2
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Frequency :1902.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
79.744	-42.73	-33.71	-8.56	-0.46	-13.00	-29.73
127.933	-59.84	-52.32	-6.91	-0.61	-13.00	-46.84
280.272	-71.16	-69.14	-1.10	-0.92	-13.00	-58.16
536.763	-66.89	-65.05	-0.78	-1.06	-13.00	-53.89
734.183	-52.71	-49.57	-1.20	-1.94	-13.00	-39.71
889.631	-64.94	-62.02	-1.05	-1.87	-13.00	-51.94
3805.000	-48.45	-51.67	12.39	-9.17	-13.00	-35.45
5707.500	-37.48	-41.19	12.80	-9.09	-13.00	-24.48

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Report Number :E2/2021/10020

Test Site :966 Chamber C

Operation Mode :LTE B4

Test Date :2021-01-28

Test Mode :TX CH LOW

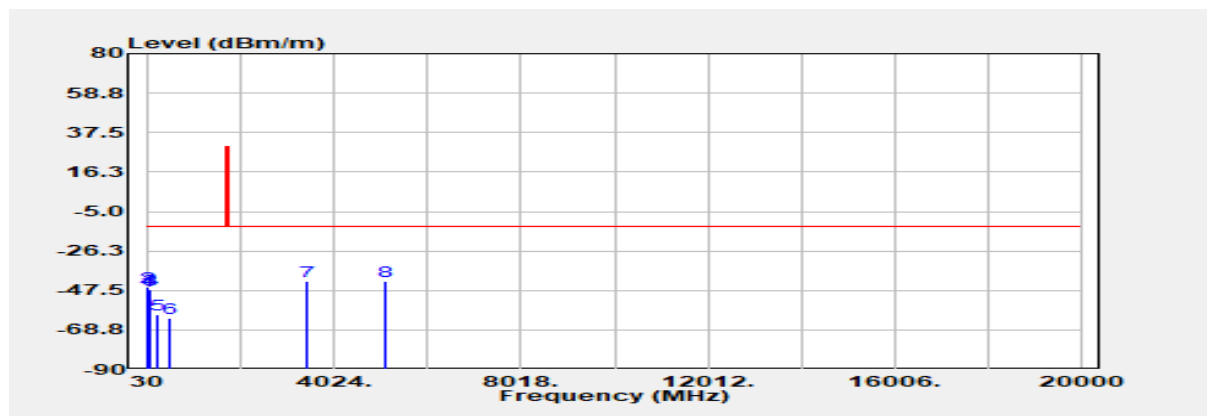
Temp./Humi. :22.9/44

EUT Pol :H Plan

Antenna Pol. :Vertical

Test Frequency :1715 MHz

Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.099	-47.59	-33.13	-17.58	-0.30	-13.00	-34.59
67.308	-45.86	-51.17	-12.84	-0.46	-13.00	-32.86
96.843	-47.30	-53.92	-5.55	-0.52	-13.00	-34.30
106.170	-46.80	-59.25	-6.25	-0.57	-13.00	-33.80
267.837	-60.27	-63.39	-0.81	-0.94	-13.00	-47.27
542.981	-62.57	-65.76	-0.80	-1.17	-13.00	-49.57
3430.000	-42.32	-53.11	12.54	-8.33	-13.00	-29.32
5145.000	-42.72	-46.73	12.10	-9.04	-13.00	-29.72

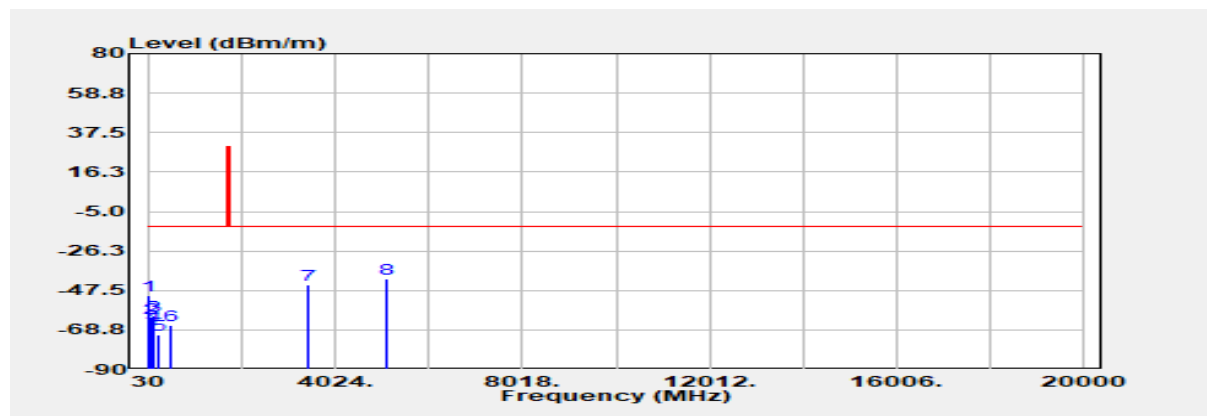
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Report Number :E2/2021/10020
Operation Mode :LTE B4
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Frequency :1715 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :22.9/44
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.763	-50.03	-33.13	-16.48	-0.33	-13.00	-37.03
120.160	-62.11	-51.17	-6.83	-0.61	-13.00	-49.11
135.705	-61.17	-53.92	-7.02	-0.61	-13.00	-48.17
163.686	-66.47	-59.25	-6.16	-0.65	-13.00	-53.47
280.272	-71.50	-63.39	-1.10	-0.92	-13.00	-58.50
535.208	-66.21	-65.76	-0.77	-1.05	-13.00	-53.21
3430.000	-44.18	-53.11	12.54	-8.33	-13.00	-31.18
5145.000	-41.00	-46.73	12.10	-9.04	-13.00	-28.00

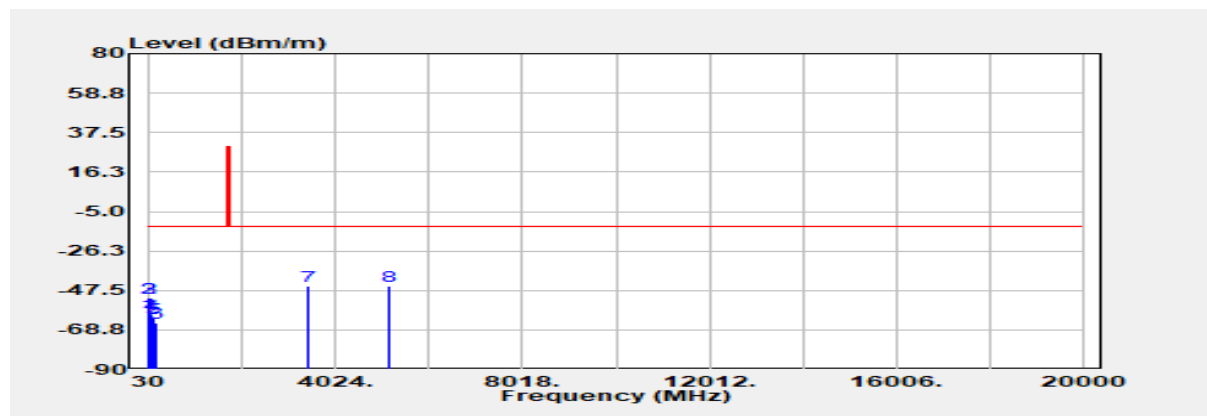
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Report Number :E2/2021/10020
Operation Mode :LTE B4
Test Mode :TX CH MID
EUT Pol :H Plan
Test Frequency :1732.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :22.9/44
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.654	-59.54	-33.13	-17.17	-0.31	-13.00	-46.54
75.080	-51.35	-51.17	-10.21	-0.47	-13.00	-38.35
75.080	-51.35	-53.92	-10.21	-0.47	-13.00	-38.35
118.606	-60.58	-59.25	-6.72	-0.61	-13.00	-47.58
162.131	-62.41	-63.39	-6.24	-0.65	-13.00	-49.41
210.321	-64.88	-65.76	-0.49	-0.83	-13.00	-51.88
3465.000	-45.26	-53.11	12.47	-9.08	-13.00	-32.26
5197.500	-45.39	-46.73	12.39	-9.14	-13.00	-32.39

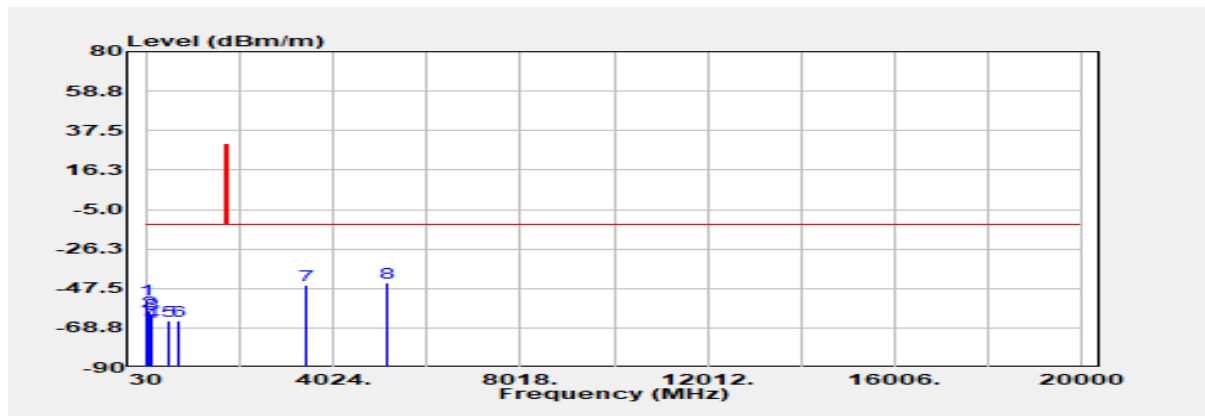
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Report Number :E2/2021/10020
 Operation Mode :LTE B4
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Frequency :1732.5 MHz

Test Site :966 Chamber C
 Test Date :2021-01-28
 Temp./Humi. :22.9/44
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.099	-53.21	-33.13	-17.58	-0.30	-13.00	-40.21
89.071	-59.59	-51.17	-5.75	-0.48	-13.00	-46.59
135.705	-61.19	-53.92	-7.02	-0.61	-13.00	-48.19
143.478	-65.56	-59.25	-7.05	-0.63	-13.00	-52.56
533.654	-65.17	-63.39	-0.79	-1.04	-13.00	-52.17
746.619	-65.06	-65.76	-1.51	-1.72	-13.00	-52.06
3465.000	-46.05	-53.11	12.47	-9.08	-13.00	-33.05
5197.500	-44.24	-46.73	12.39	-9.14	-13.00	-31.24

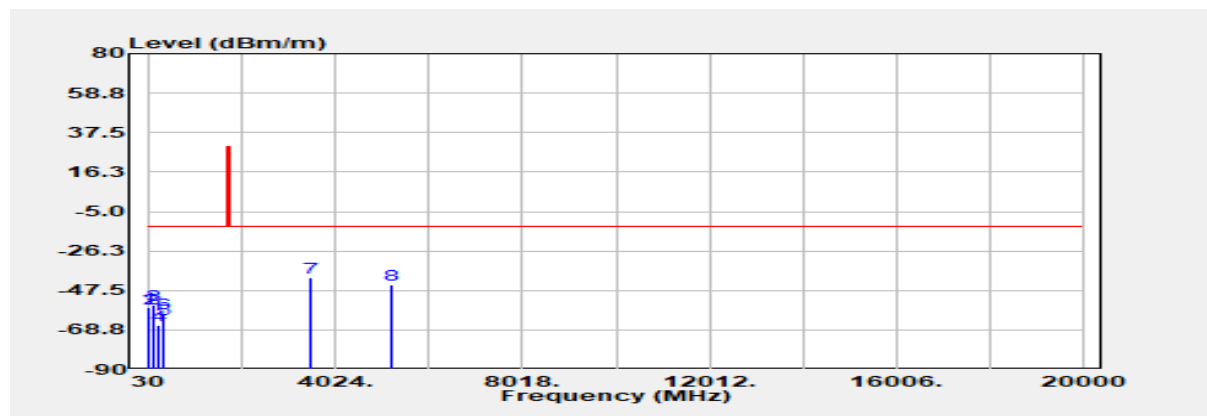
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Report Number :E2/2021/10020
Operation Mode :LTE B4
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Frequency :1750 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :22.9/44
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.218	-56.74	-33.13	-18.93	-0.25	-13.00	-43.74
127.933	-57.21	-51.17	-6.91	-0.61	-13.00	-44.21
143.478	-55.66	-53.92	-7.05	-0.63	-13.00	-42.66
267.837	-66.52	-59.25	-0.81	-0.94	-13.00	-53.52
354.888	-63.34	-63.39	-0.44	-1.04	-13.00	-50.34
368.878	-59.95	-65.76	-0.56	-1.00	-13.00	-46.95
3500.000	-40.30	-53.11	12.40	-9.26	-13.00	-27.30
5250.000	-44.76	-46.73	12.80	-8.72	-13.00	-31.76

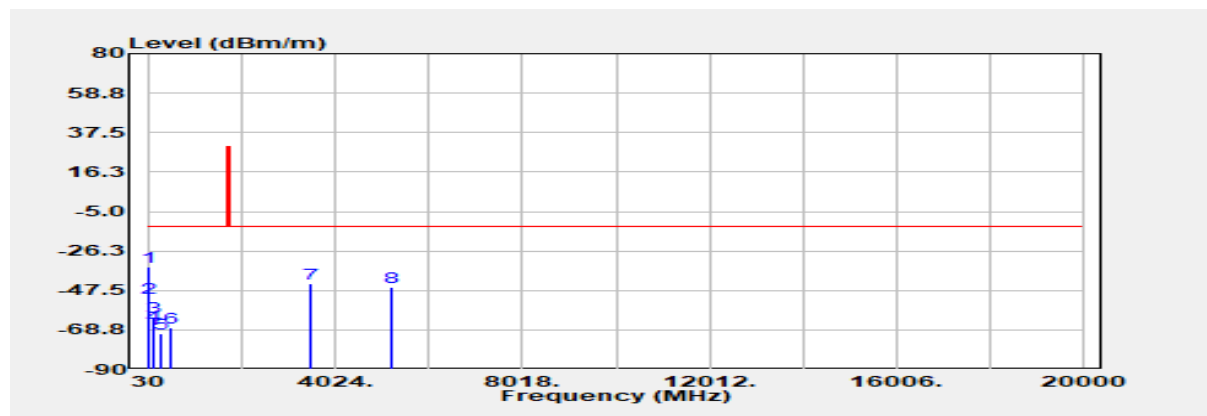
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Report Number :E2/2021/10020
Operation Mode :LTE B4
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Frequency :1750 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :22.9/44
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.772	-35.11	-33.13	-18.95	-0.26	-13.00	-22.11
51.763	-51.24	-51.17	-16.48	-0.33	-13.00	-38.24
135.705	-61.56	-53.92	-7.02	-0.61	-13.00	-48.56
162.131	-66.23	-59.25	-6.24	-0.65	-13.00	-53.23
291.154	-70.46	-63.39	-1.00	-0.95	-13.00	-57.46
530.545	-67.34	-65.76	-0.84	-1.01	-13.00	-54.34
3500.000	-43.92	-53.11	12.40	-9.26	-13.00	-30.92
5250.000	-45.58	-46.73	12.80	-8.72	-13.00	-32.58

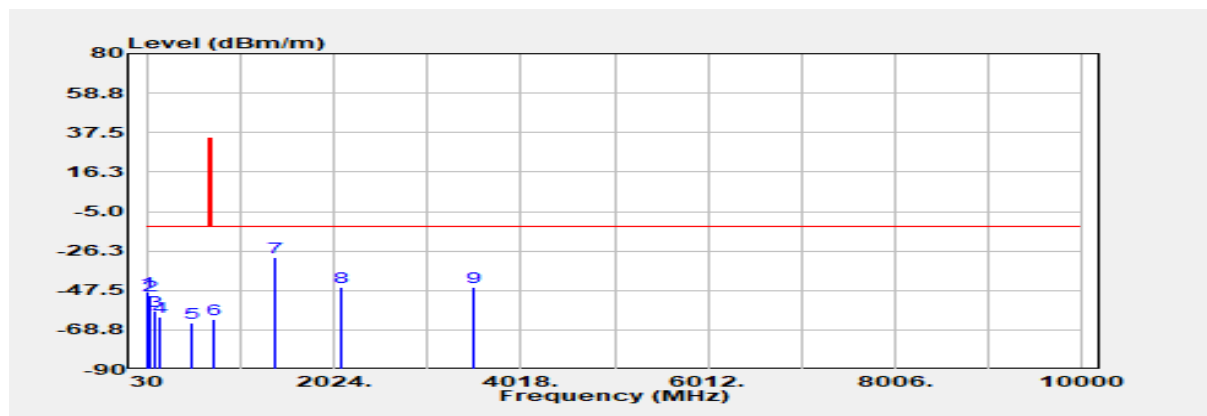
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Report Number :E2/2021/10020
Operation Mode :LTE B12
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Frequency :704 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.218	-48.52	-29.34	-18.93	-0.25	-13.00	-35.52
70.417	-50.34	-38.02	-11.84	-0.48	-13.00	-37.34
120.160	-58.44	-51.00	-6.83	-0.61	-13.00	-45.44
163.686	-61.60	-54.79	-6.16	-0.65	-13.00	-48.60
515.000	-64.71	-62.76	-0.80	-1.15	-13.00	-51.71
746.619	-62.93	-59.70	-1.51	-1.72	-13.00	-49.93
1408.000	-29.78	-33.05	7.66	-4.39	-13.00	-16.78
2112.000	-45.92	-49.69	9.75	-5.98	-13.00	-32.92
3520.000	-45.72	-29.34	12.40	-8.77	-13.00	-32.72

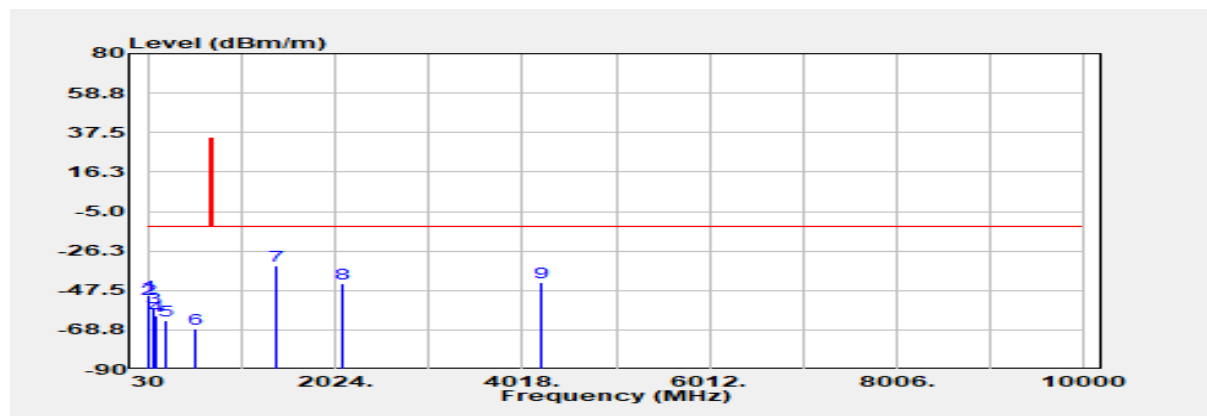
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Report Number :E2/2021/10020
 Operation Mode :LTE B12
 Test Mode :TX CH LOW
 EUT Pol :H Plan
 Test Frequency :704 MHz

Test Site :966 Chamber C
 Test Date :2021-01-28
 Temp./Humi. :23.5/42
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.663	-50.23	-30.70	-19.28	-0.25	-13.00	-37.23
50.208	-52.14	-34.84	-16.98	-0.32	-13.00	-39.14
96.843	-56.96	-50.89	-5.55	-0.52	-13.00	-43.96
127.933	-61.27	-53.75	-6.91	-0.61	-13.00	-48.27
216.539	-63.51	-62.48	-0.20	-0.83	-13.00	-50.51
530.545	-67.94	-66.09	-0.84	-1.01	-13.00	-54.94
1408.000	-34.16	-37.43	7.66	-4.39	-13.00	-21.16
2112.000	-43.59	-47.36	9.75	-5.98	-13.00	-30.59
4224.000	-43.34	-30.70	12.45	-8.00	-13.00	-30.34

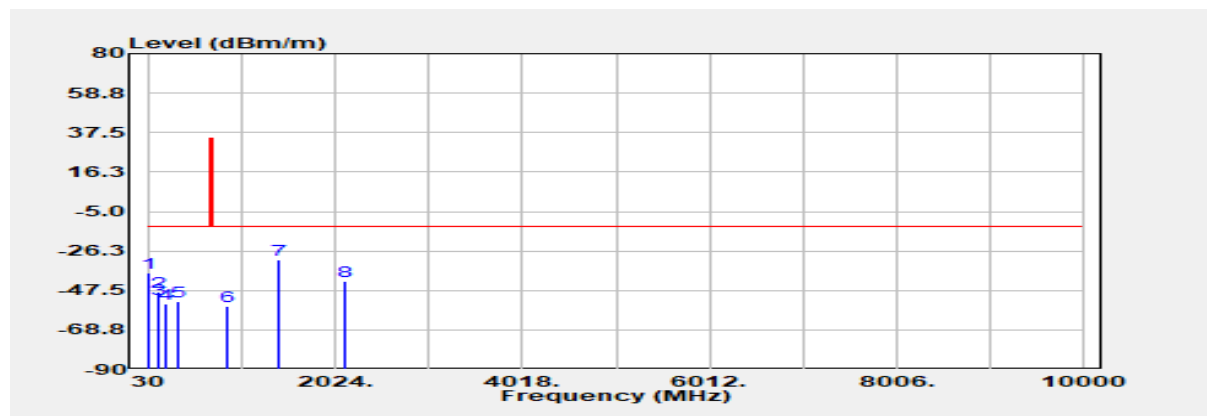
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Report Number :E2/2021/10020
Operation Mode :LTE B12
Test Mode :TX CH MID
EUT Pol :H Plan
Test Frequency :707.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.763	-38.11	-21.30	-16.48	-0.33	-13.00	-25.11
141.923	-48.21	-40.60	-6.99	-0.62	-13.00	-35.21
154.359	-52.23	-44.93	-6.64	-0.66	-13.00	-39.23
213.430	-54.66	-53.47	-0.36	-0.83	-13.00	-41.66
354.888	-53.32	-51.84	-0.44	-1.04	-13.00	-40.32
875.641	-55.78	-52.95	-1.18	-1.65	-13.00	-42.78
1415.000	-30.75	-34.06	7.72	-4.41	-13.00	-17.75
2122.500	-42.33	-45.96	9.63	-6.00	-13.00	-29.33

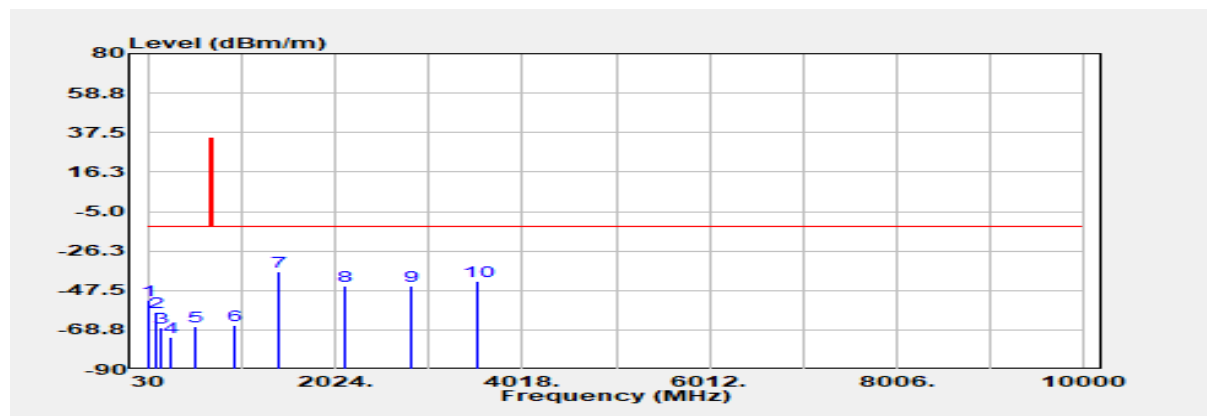
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Report Number :E2/2021/10020
Operation Mode :LTE B12
Test Mode :TX CH MID
EUT Pol :H Plan
Test Frequency :707.5 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.763	-52.70	-35.89	-16.48	-0.33	-13.00	-39.70
126.378	-59.38	-51.85	-6.92	-0.61	-13.00	-46.38
162.131	-67.73	-60.84	-6.24	-0.65	-13.00	-54.73
278.718	-72.52	-70.54	-1.06	-0.92	-13.00	-59.52
533.654	-66.60	-64.77	-0.79	-1.04	-13.00	-53.60
954.920	-66.28	-63.13	-1.34	-1.81	-13.00	-53.28
1415.000	-37.45	-40.76	7.72	-4.41	-13.00	-24.45
2122.500	-44.99	-48.62	9.63	-6.00	-13.00	-31.99
2830.000	-45.22	-35.89	10.82	-6.54	-13.00	-32.22
3537.500	-42.29	-51.85	12.40	-8.34	-13.00	-29.29

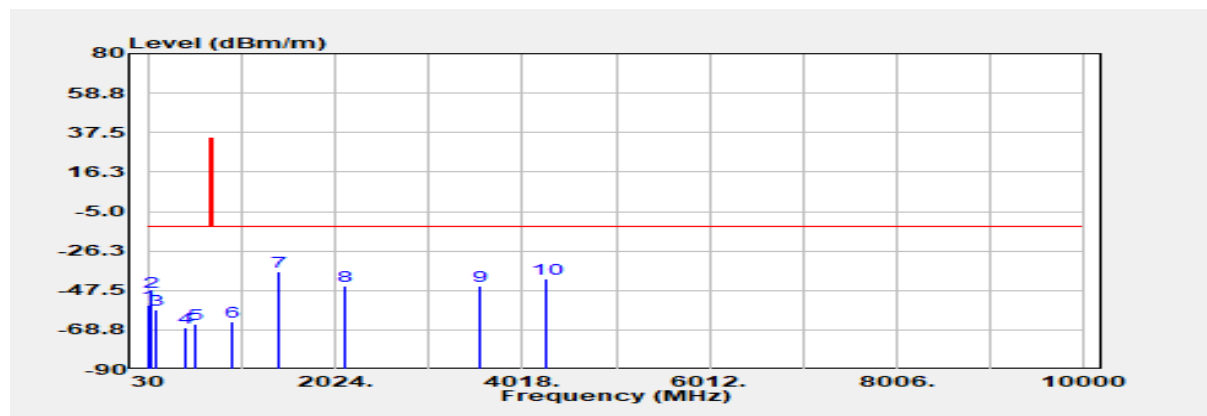
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Report Number :E2/2021/10020
Operation Mode :LTE B12
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Frequency :711 MHz

Test Site :966 Chamber C
Test Date :2021-01-28
Temp./Humi. :23.5/42
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.208	-55.22	-37.92	-16.98	-0.32	-13.00	-42.22
70.417	-48.23	-35.91	-11.84	-0.48	-13.00	-35.23
121.715	-58.13	-50.68	-6.84	-0.61	-13.00	-45.13
424.840	-67.66	-65.68	-0.77	-1.21	-13.00	-54.66
535.208	-65.54	-63.72	-0.77	-1.05	-13.00	-52.54
925.385	-64.14	-60.98	-1.42	-1.74	-13.00	-51.14
1422.000	-37.67	-41.01	7.78	-4.44	-13.00	-24.67
2133.000	-44.80	-48.29	9.50	-6.01	-13.00	-31.80
3555.000	-45.39	-37.92	12.38	-8.03	-13.00	-32.39
4266.000	-41.41	-35.91	12.46	-8.51	-13.00	-28.41

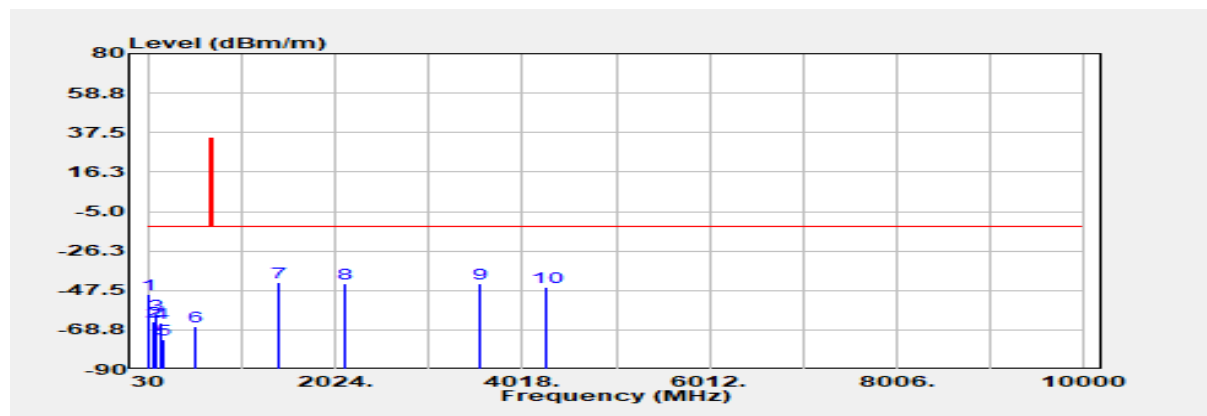
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Report Number :E2/2021/10020
 Operation Mode :LTE B12
 Test Mode :TX CH HIGH
 EUT Pol :H Plan
 Test Frequency :711 MHz

Test Site :966 Chamber C
 Test Date :2021-01-28
 Temp./Humi. :23.5/42
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.763	-49.68	-32.87	-16.48	-0.33	-13.00	-36.68
95.288	-64.22	-58.35	-5.36	-0.51	-13.00	-51.22
127.933	-60.19	-52.67	-6.91	-0.61	-13.00	-47.19
162.131	-64.76	-57.87	-6.24	-0.65	-13.00	-51.76
207.212	-73.96	-72.47	-0.67	-0.82	-13.00	-60.96
530.545	-66.63	-64.78	-0.84	-1.01	-13.00	-53.63
1422.000	-43.17	-46.51	7.78	-4.44	-13.00	-30.17
2133.000	-43.54	-47.03	9.50	-6.01	-13.00	-30.54
3555.000	-43.93	-32.87	12.38	-8.03	-13.00	-30.93
4266.000	-46.05	-58.35	12.46	-8.51	-13.00	-33.05

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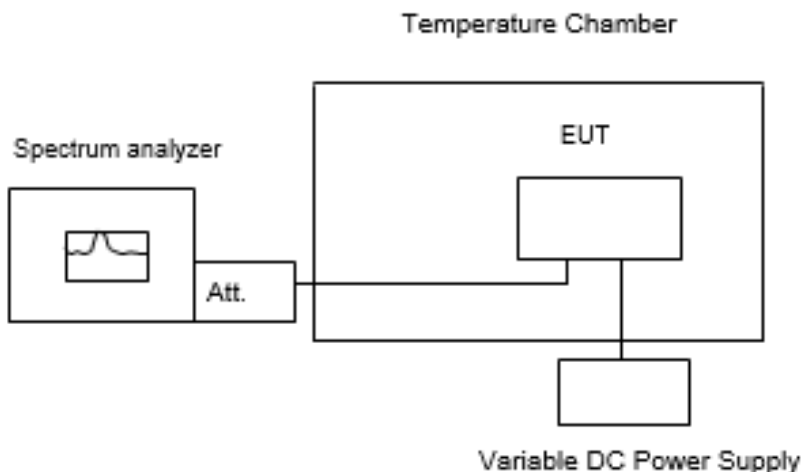
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

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

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

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10.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Radio Communication Analyzer	Anritsu	MT8820C	6201465316	06/18/2020	06/17/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Attenuator	Marvelous	MVE2213-10	RF06	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Splitter	Marvelous Microwave	MVE8586	RF259	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021

10.5 Measurement Result

Note: The battery is rated 24V dc.

Reference Freq.:		LTE B2 Mid Channel		1880 MHz	10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
25.2	25	1879.999979	-21	4700	
24	25	1879.999985	-15	4700	
22.8	25	1879.999990	-10	4700	
18.7 (End Point)	25	1879.999992	-8	4700	
Freq. ERROR vs. Temp.					
24	-30	1879.999994	-6	4700	
24	-20	1880.000004	4	4700	
24	-10	1880.000012	12	4700	
24	0	1880.000011	11	4700	
24	10	1880.000014	14	4700	
24	20	1880.000013	13	4700	
24	30	1880.000008	8	4700	
24	40	1880.000011	11	4700	
24	50	1880.000015	15	4700	

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Reference Freq.:		LTE B4 Mid Channel		1732.5 MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
25.2	25	1732.499989	-11	4331
24	25	1732.499986	-14	4331
22.8	25	1732.499989	-11	4331
18.7 (End Point)	25	1732.499997	-3	4331
Freq. ERROR vs. Temp.				
24	-30	1732.499998	-2	4331
24	-20	1732.500002	2	4331
24	-10	1732.500014	14	4331
24	0	1732.500008	8	4331
24	10	1732.500011	11	4331
24	20	1732.500007	7	4331
24	30	1732.500008	8	4331
24	40	1732.500013	13	4331
24	50	1732.500010	10	4331

Reference Freq.:		LTE B12 Mid Channel		707.5 MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
25.2	25	707.499982	-18	1769
24	25	707.499989	-11	1769
22.8	25	707.499995	-5	1769
18.7 (End Point)	25	707.500003	3	1769
Freq. ERROR vs. Temp.				
24	-30	707.500007	7	1769
24	-20	707.500008	8	1769
24	-10	707.500011	11	1769
24	0	707.500018	18	1769
24	10	707.500009	9	1769
24	20	707.500013	13	1769
24	30	707.500010	10	1769
24	40	707.500009	9	1769
24	50	707.500011	11	1769

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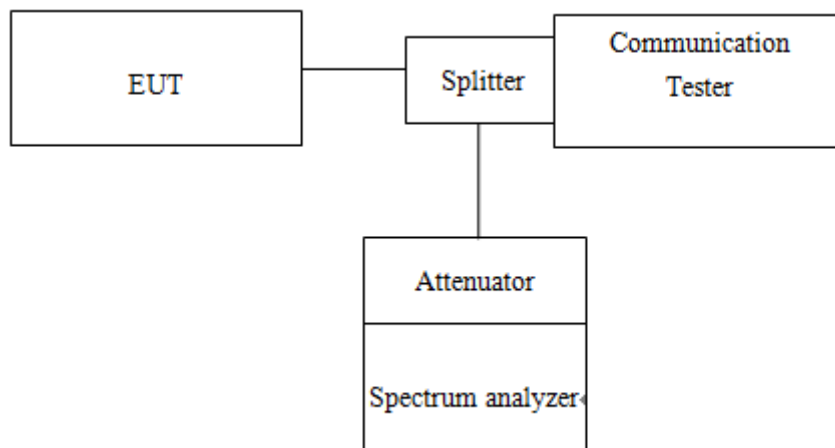
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 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.

11.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Radio Communication Analyzer	Anritsu	MT8820C	6201465316	06/18/2020	06/17/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Attenuator	Marvelous	MVE2213-10	RF06	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Splitter	Marvelous Microwave	MVE8586	RF259	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185 C	RF55	11/19/2020	11/18/2021

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11.5 Measurement Result

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.51	13	1851.5	18615	6.35	13
1880.0	18900	7.01	13	1880.0	18900	7.06	13
1909.3	19193	6.40	13	1908.5	19185	6.34	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.24	13	1855.0	18650	6.47	13
1880.0	18900	6.53	13	1880.0	18900	6.65	13
1907.5	19175	6.63	13	1905.0	19150	6.55	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.00	13	1860.0	18700	6.59	13
1880.0	18900	6.03	13	1880.0	18900	6.66	13
1902.5	19125	6.32	13	1900.0	19100	6.48	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.49	13	1711.5	19965	6.22	13
1732.5	20175	6.97	13	1732.5	20175	6.75	13
1754.3	20393	6.46	13	1753.5	20385	6.76	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.31	13	1715.0	20000	6.33	13
1732.5	20175	6.23	13	1732.5	20175	6.21	13
1752.5	20375	6.43	13	1750.0	20350	6.41	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.32	13	1720.0	20050	6.89	13
1732.5	20175	6.15	13	1732.5	20175	6.86	13
1747.5	20325	6.22	13	1745.0	20300	6.57	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	6.58	13	700.5	23025	6.61	13
707.5	23095	6.73	13	707.5	23095	6.07	13
715.3	23173	6.42	13	714.5	23165	5.75	13

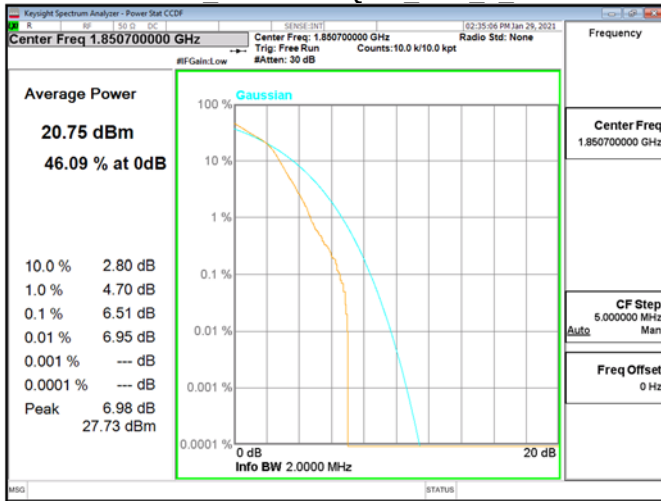
LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	5.92	13	704.0	23060	6.09	13
707.5	23095	6.37	13	707.5	23095	6.33	13
713.5	23155	5.79	13	711.0	23130	7.08	13

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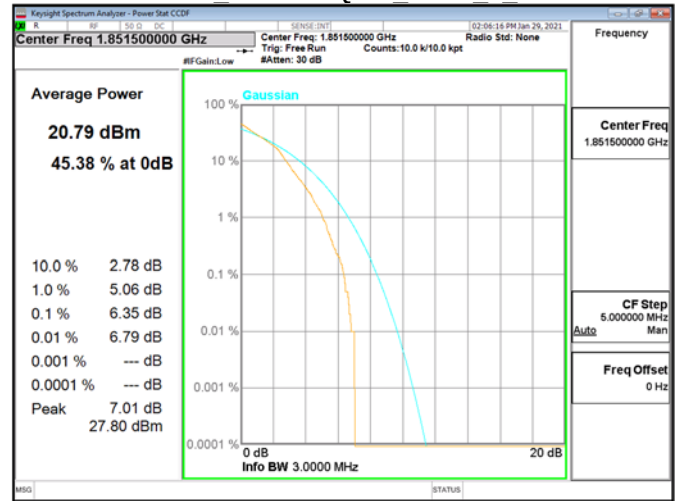
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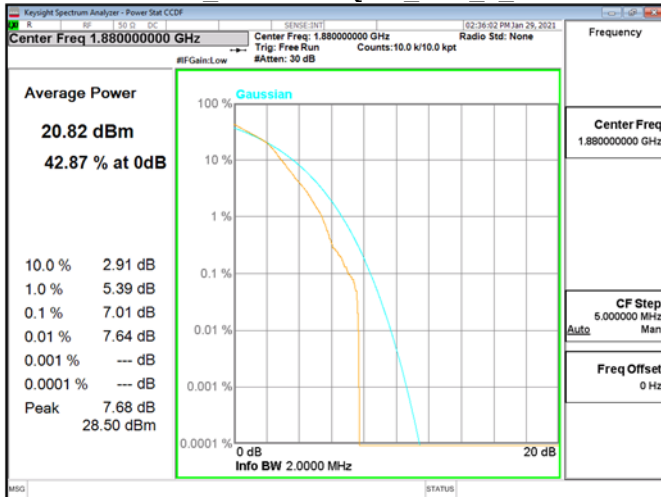
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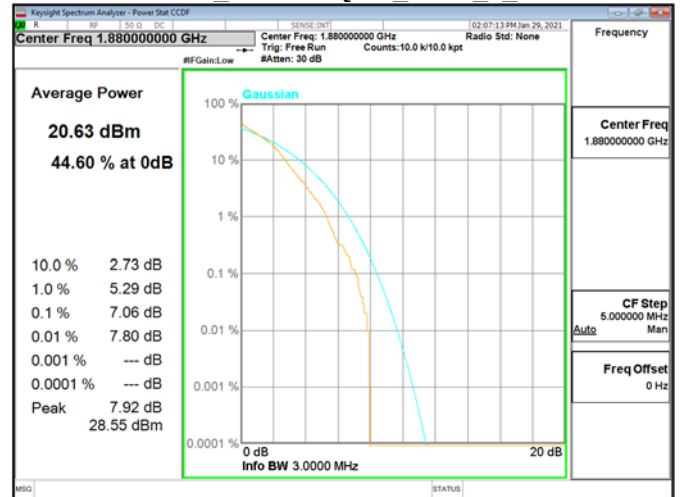
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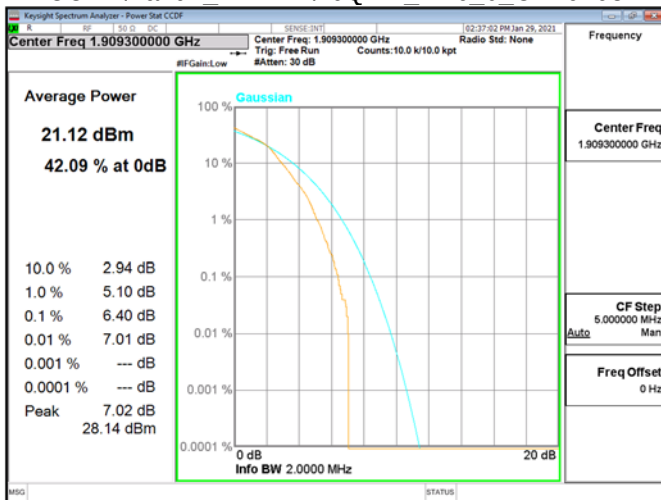
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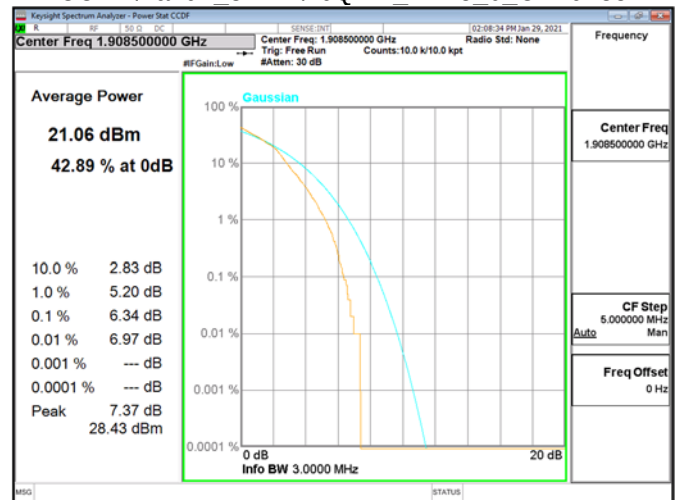
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CCDF\Band2 3MHz\16QAM RB15 0 CH19185

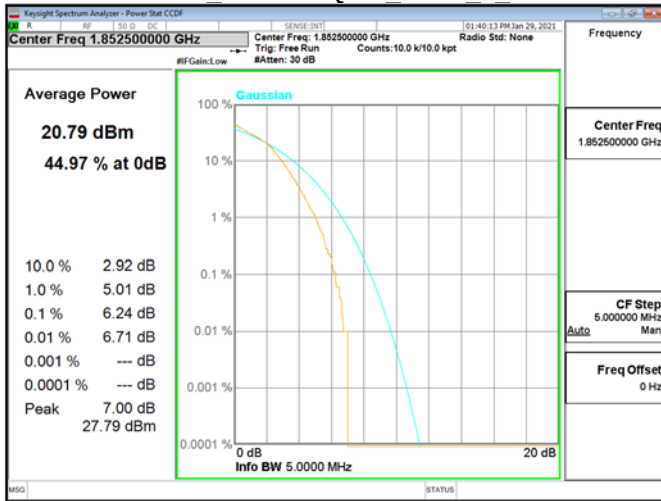


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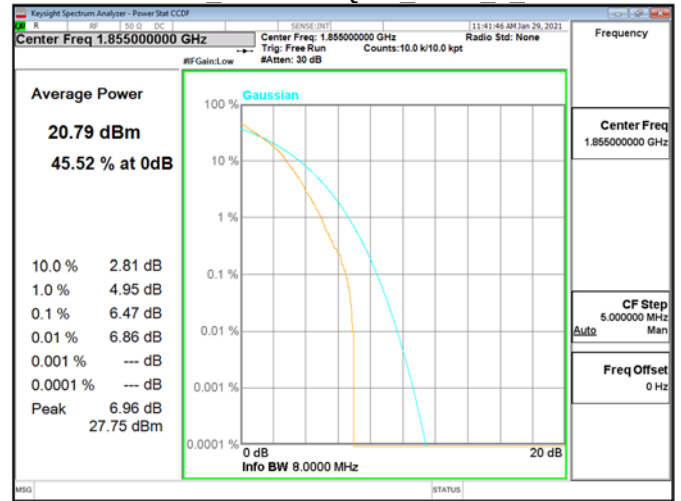
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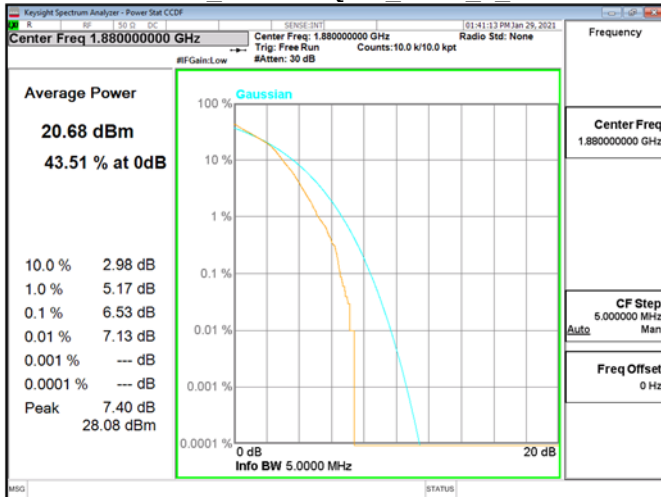
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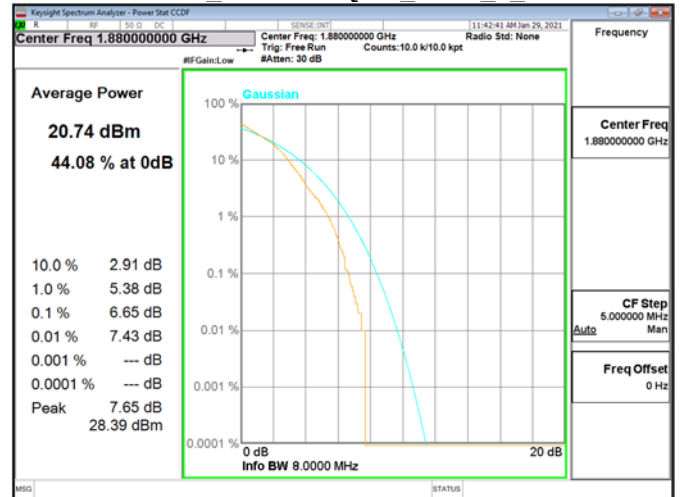
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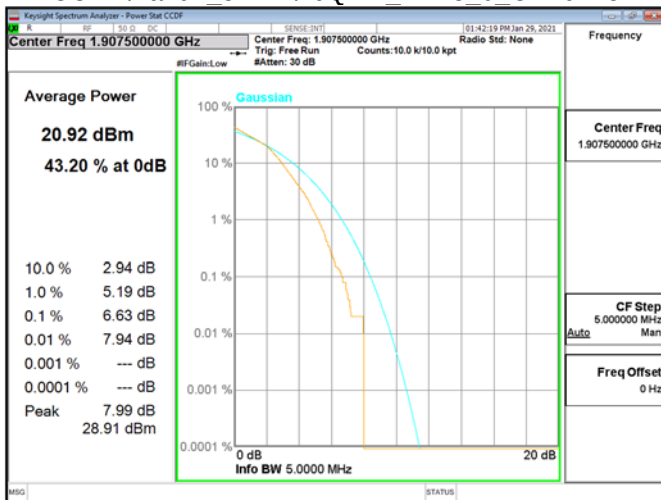
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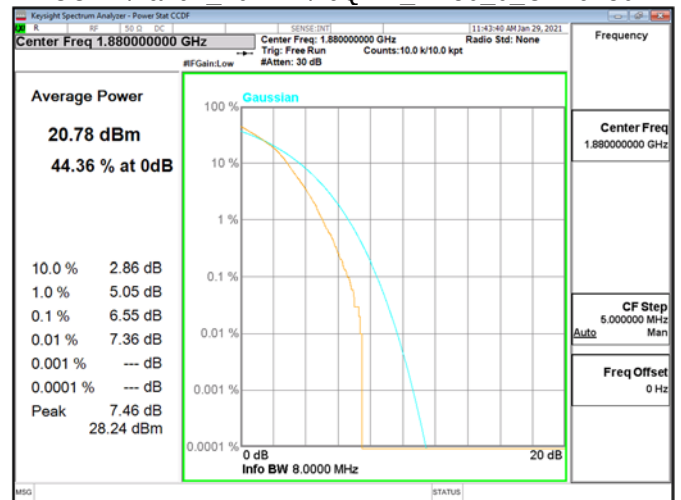
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CCDF\Band2 10MHz\16QAM RB50 0 CH19150

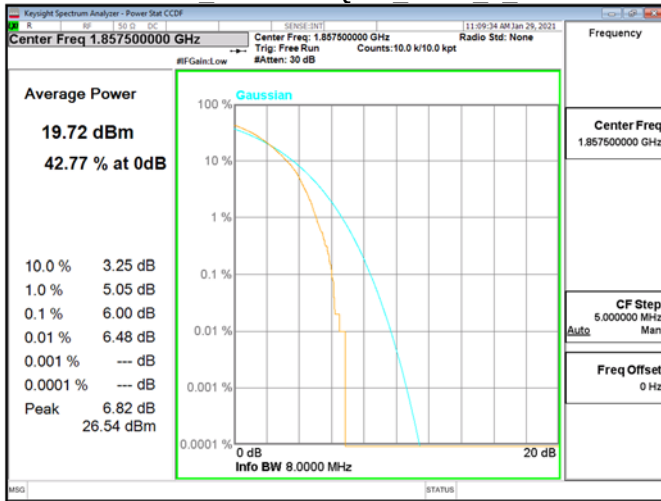


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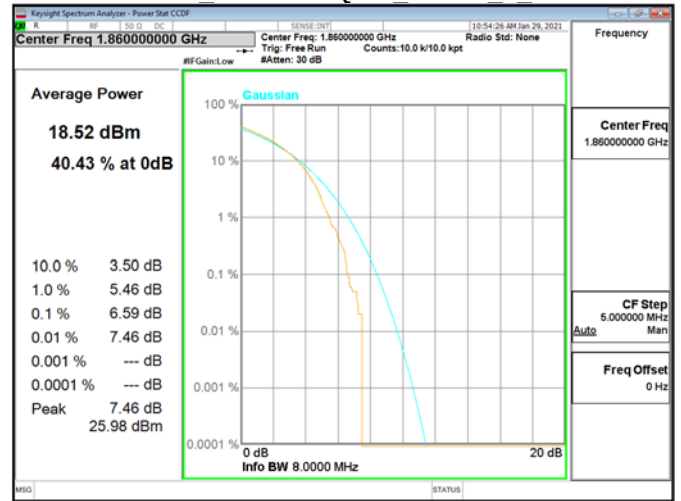
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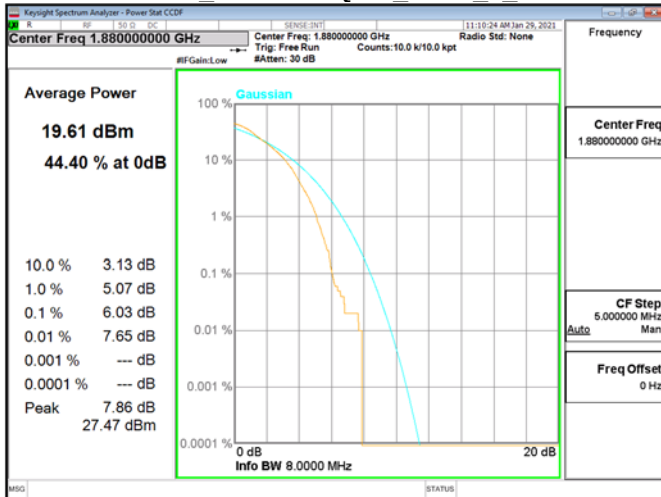
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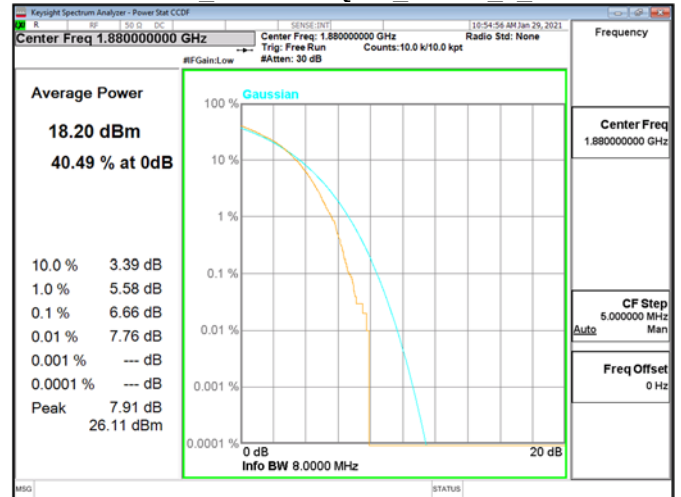
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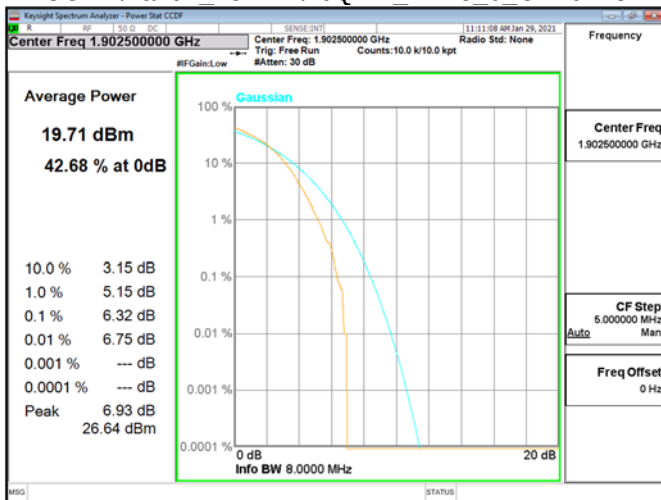
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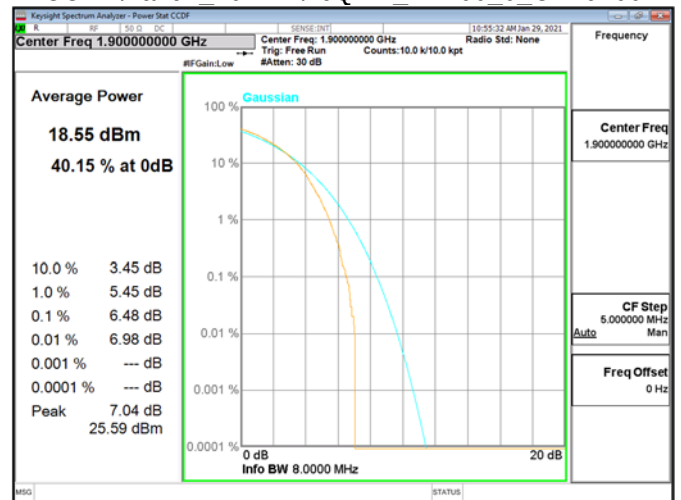
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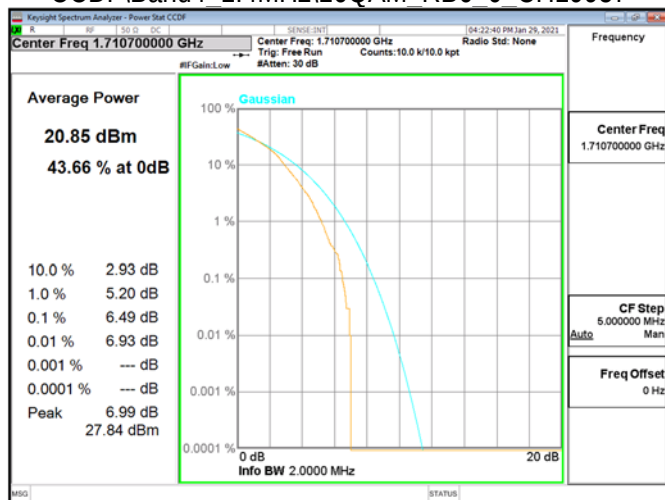


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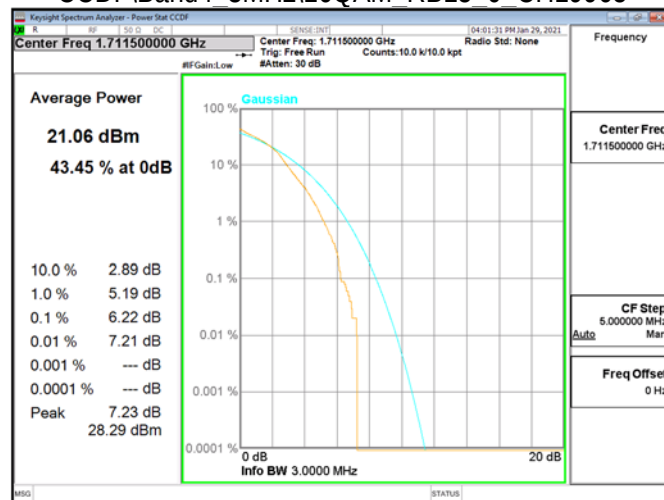
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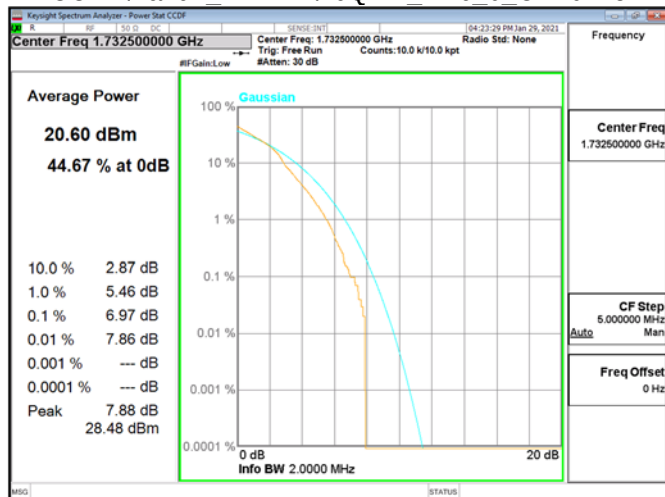
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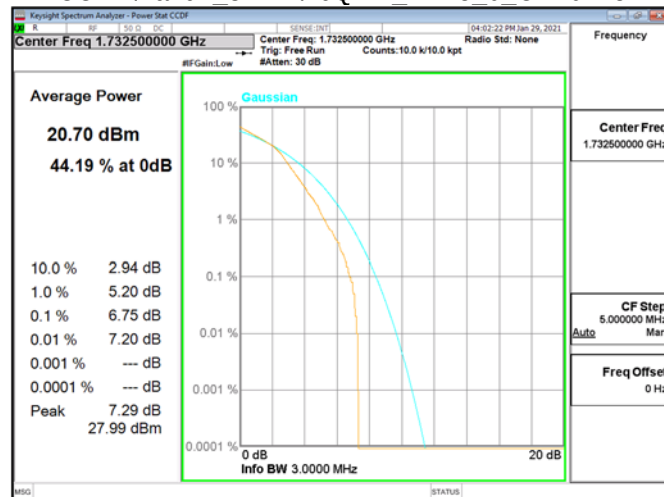
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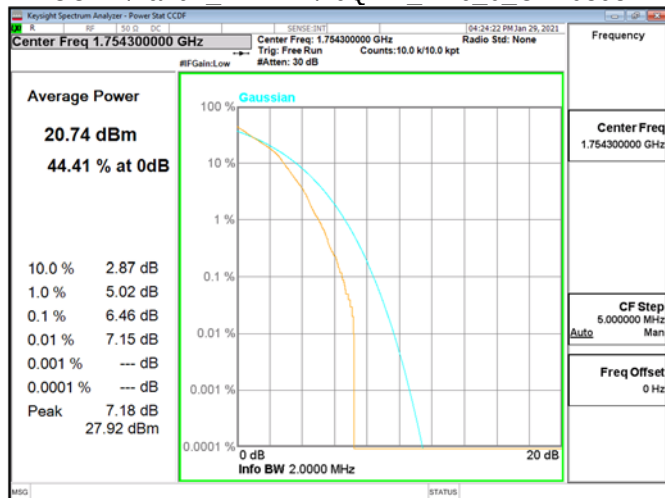
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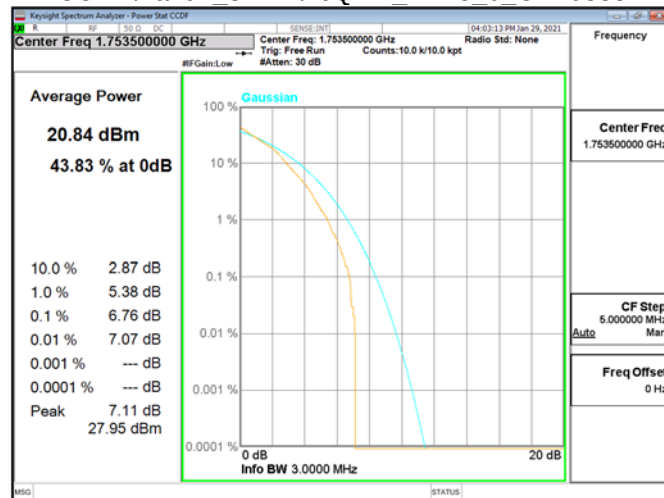
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CCDF\Band4 3MHz\16QAM RB15 0 CH20385

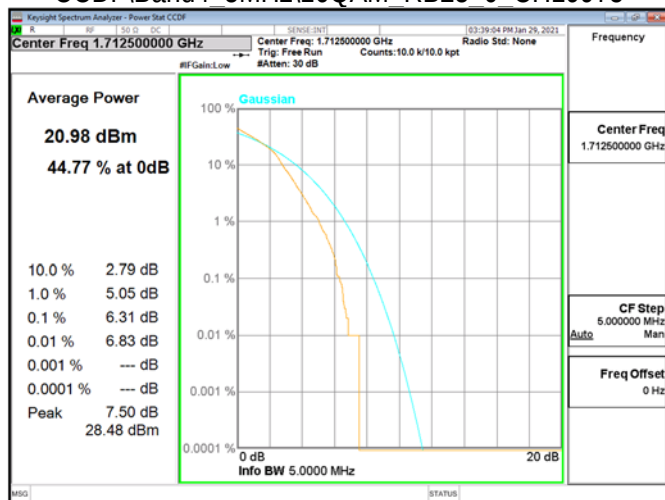


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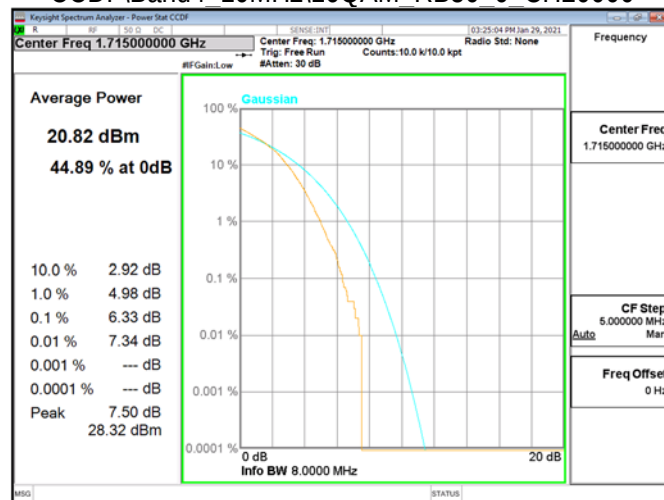
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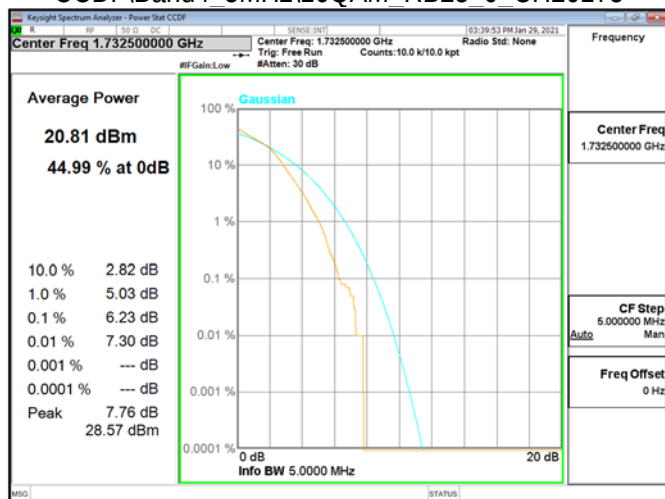
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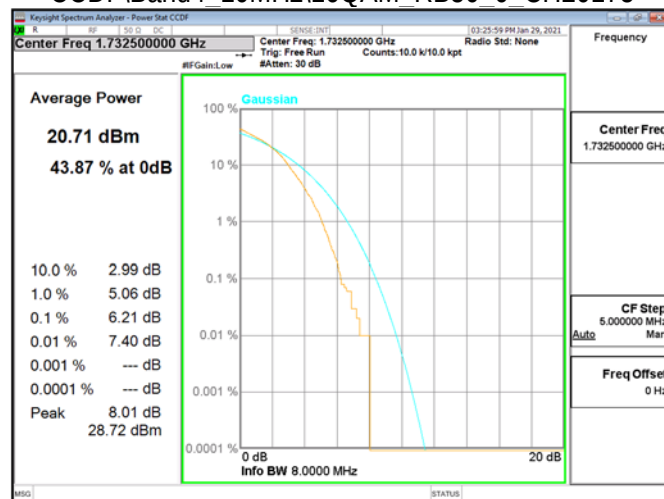
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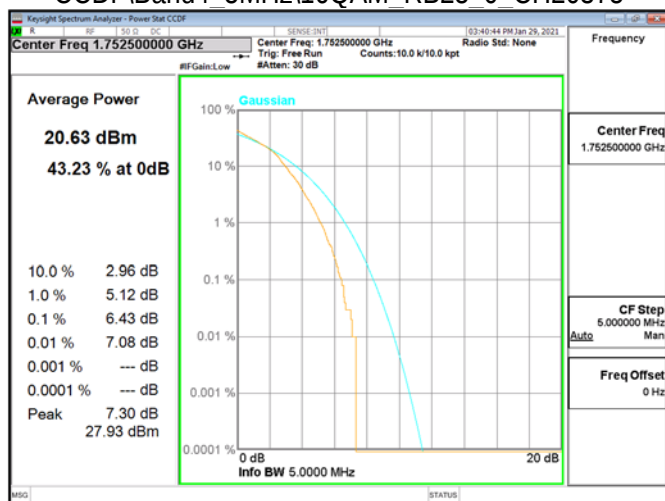
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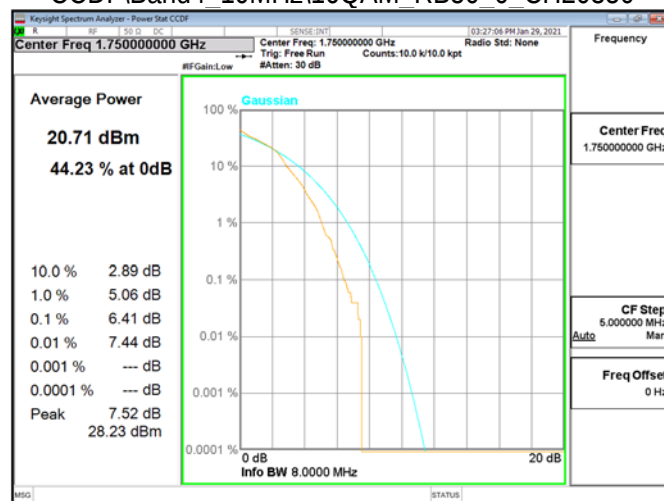
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CCDF\Band4 10MHz\16QAM RB50 0 CH20350

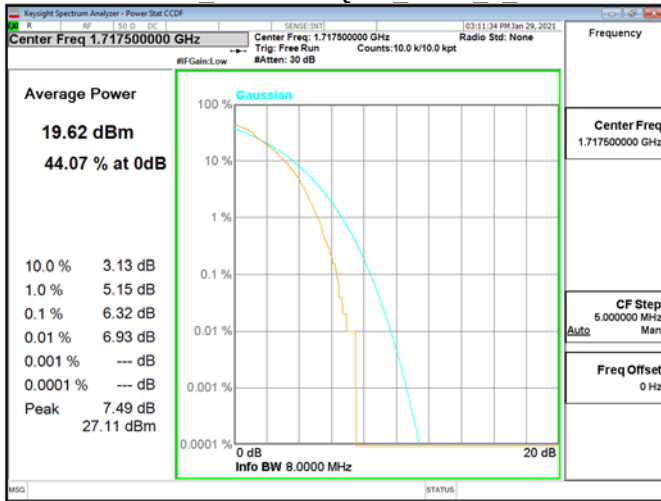


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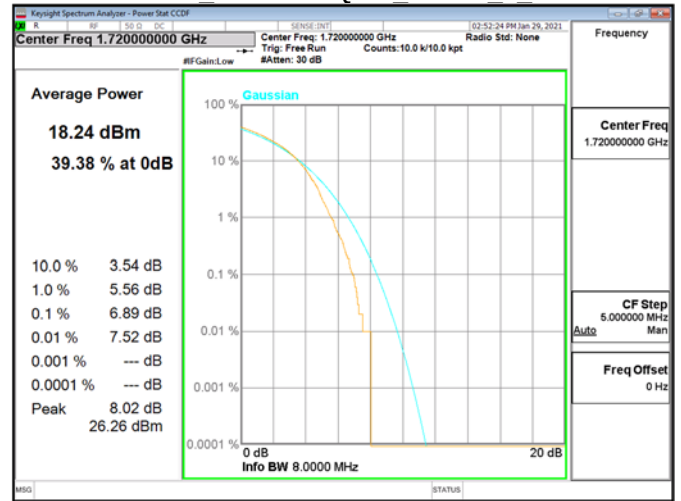
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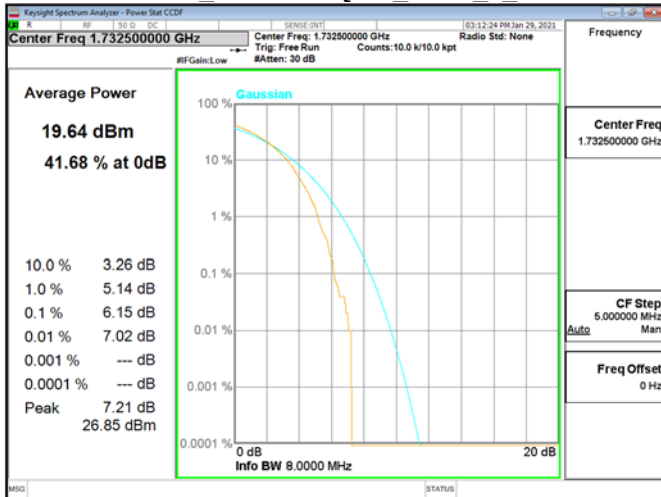
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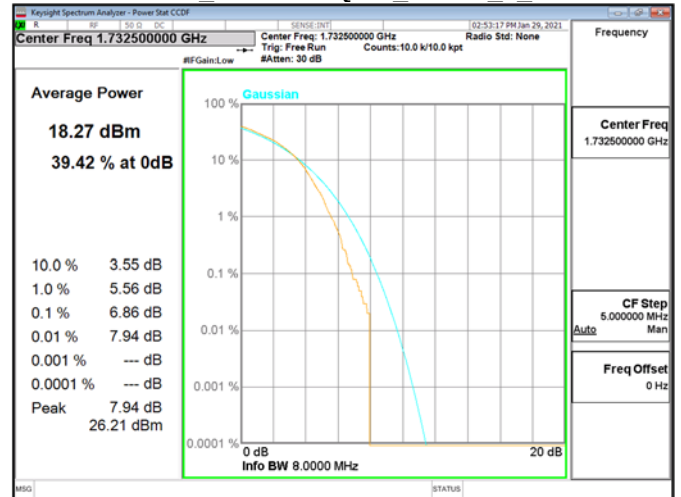
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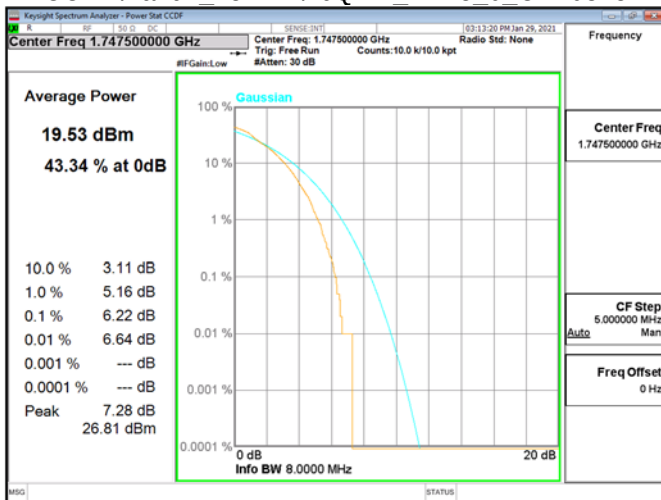
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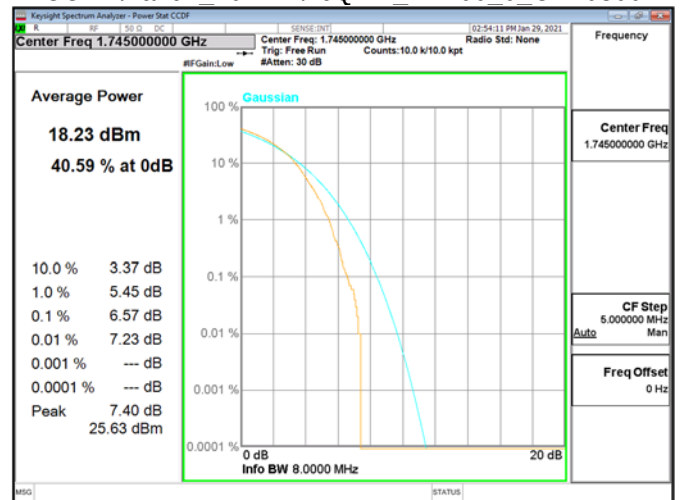
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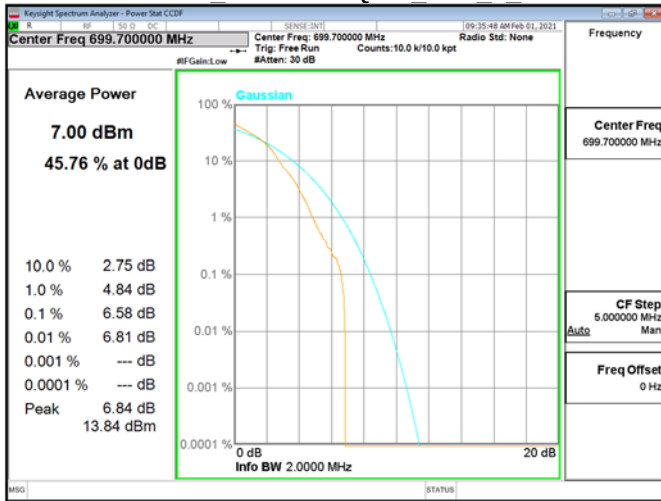


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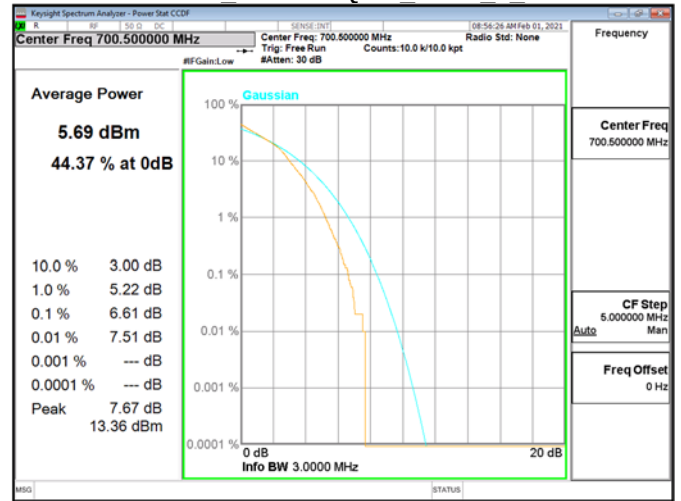
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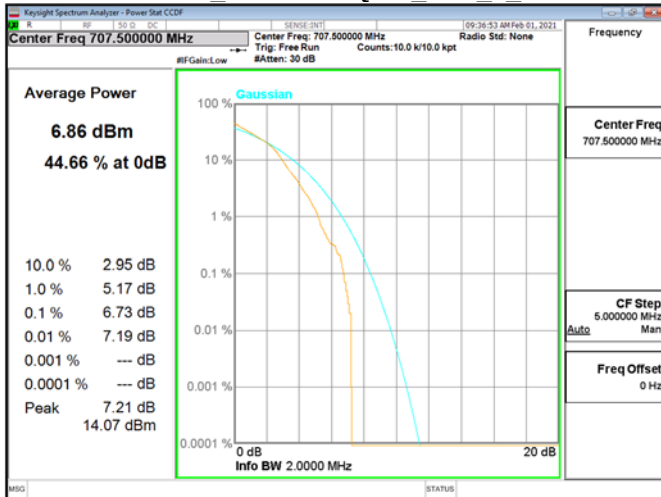
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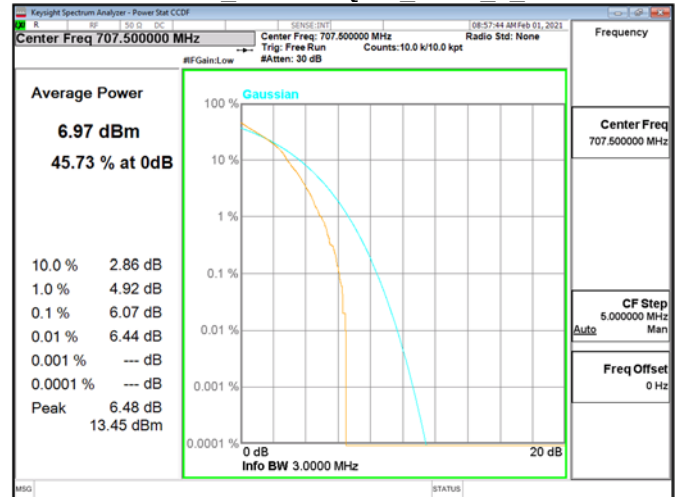
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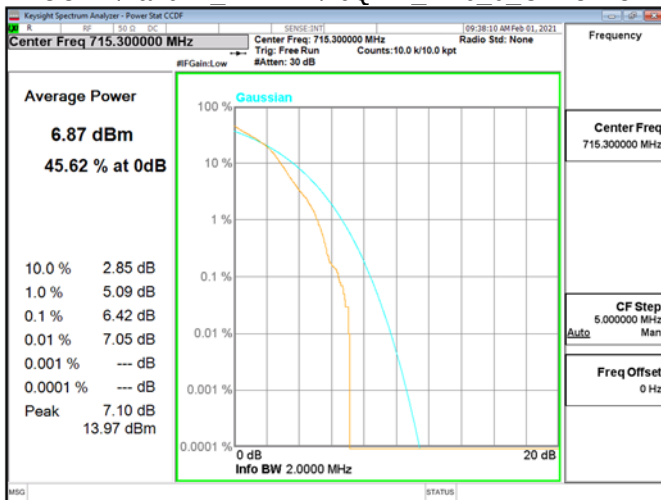
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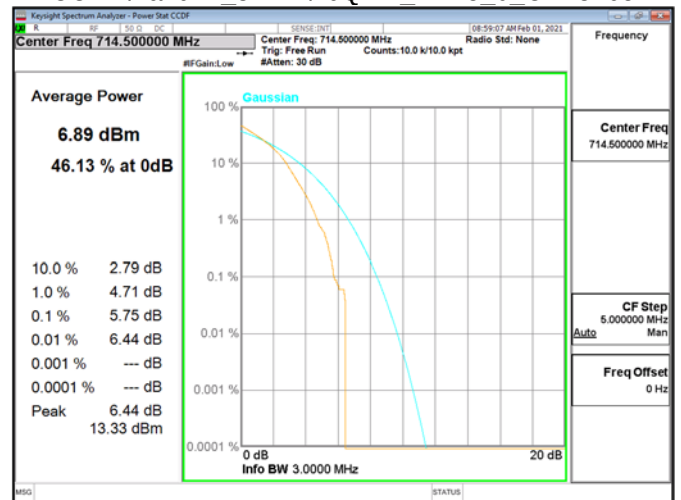
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CCDF\Band12 1.4MHz\16QAM RB6 0 CH23173



CCDF\Band12 3MHz\16QAM RB15 0 CH23165

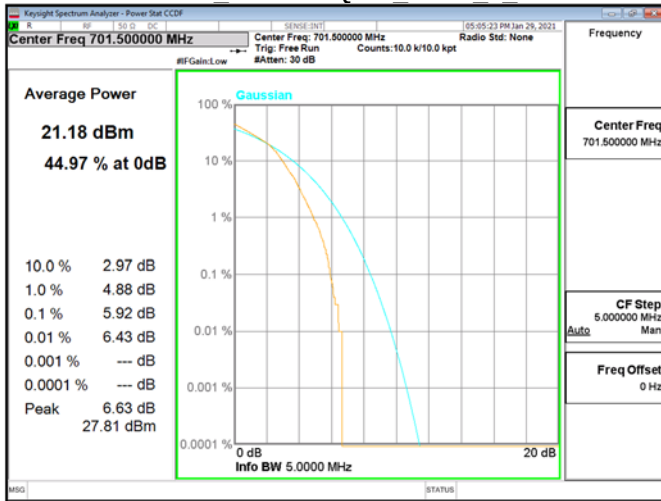


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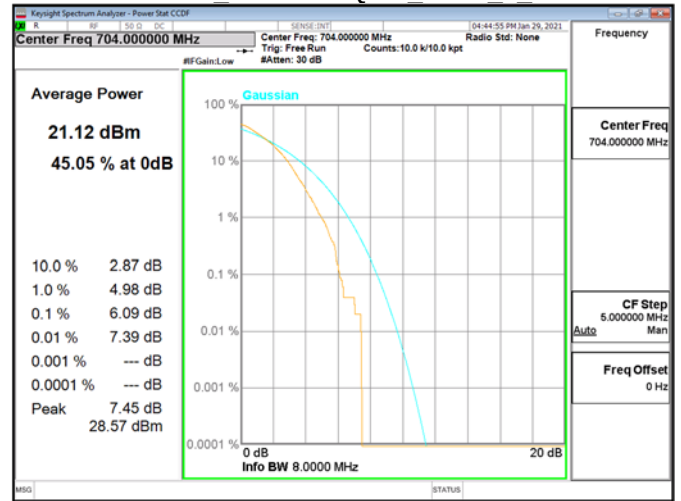
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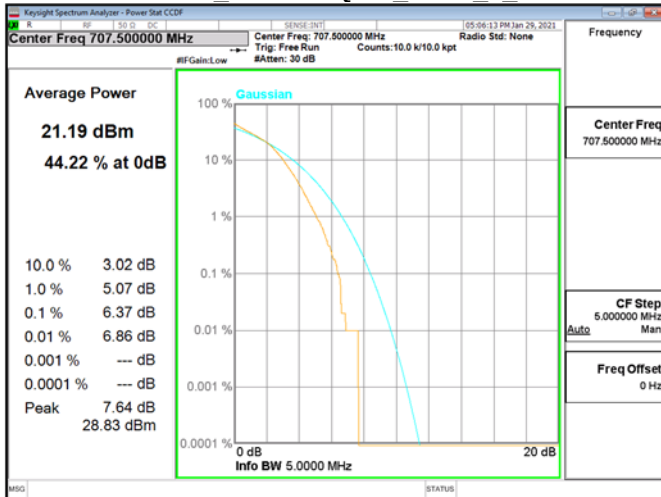
CCDF\Band12 5MHz\16QAM RB25 0 CH23035



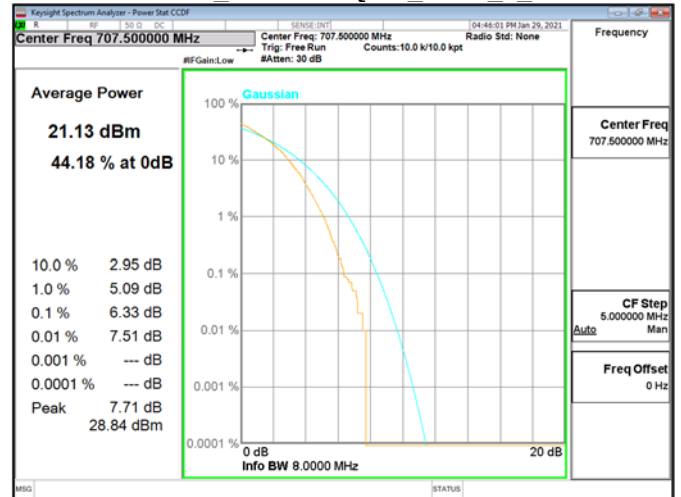
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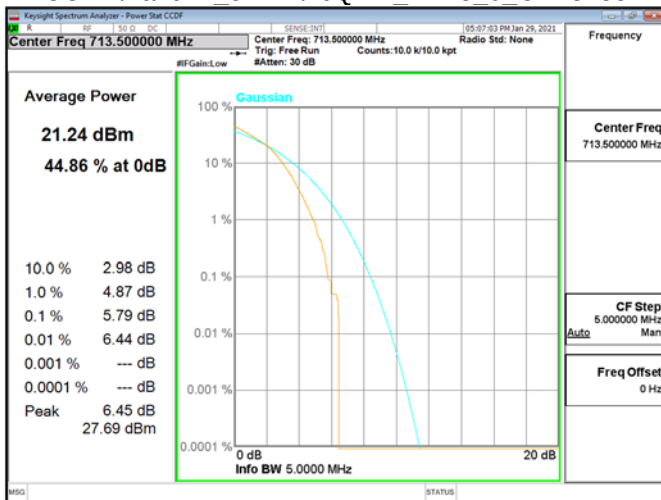
CCDF\Band12 5MHz\16QAM RB25 0 CH23095



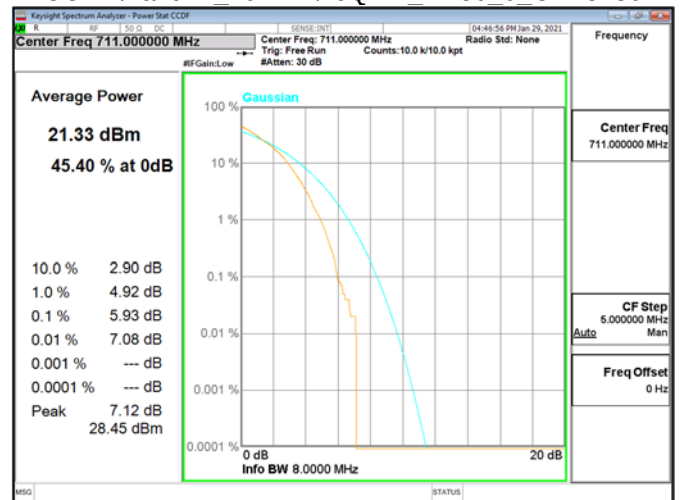
CCDF\Band12 10MHz\16QAM RB50 0 CH23095



CCDF\Band12 5MHz\16QAM RB25 0 CH23155



CCDF\Band12 10MHz\16QAM RB50 0 CH23130



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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