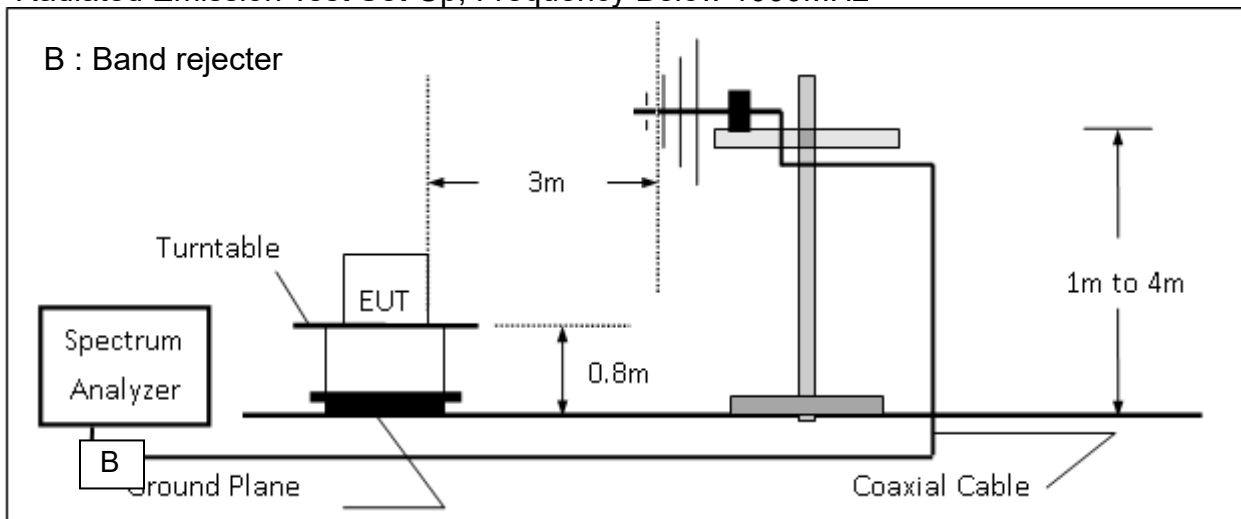
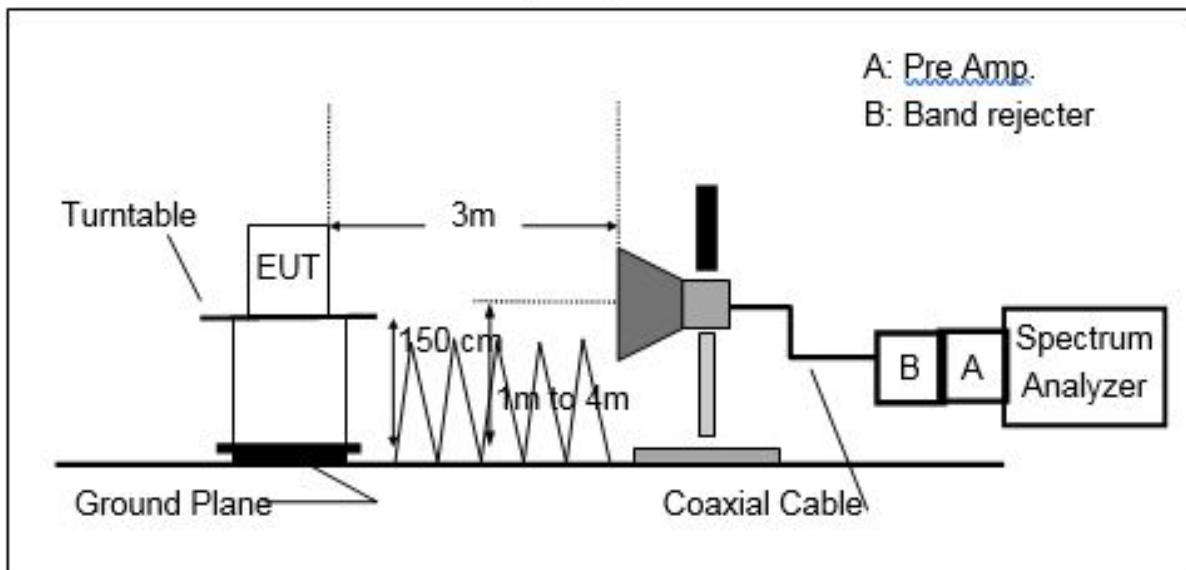


9.2 EUT Setup

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:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/27/2018	12/26/2019
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/09/2019	01/09/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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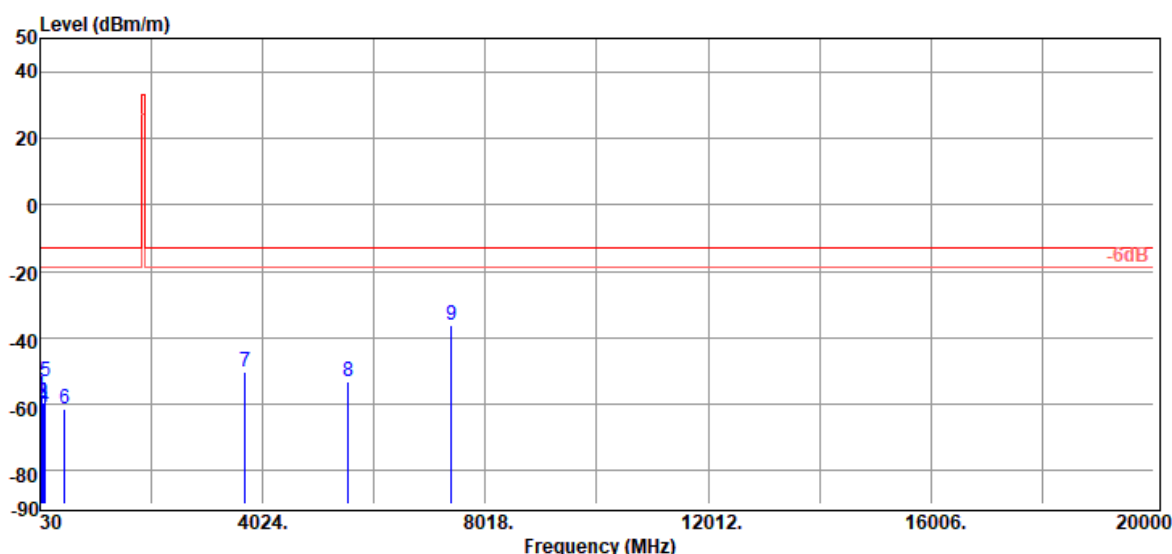
9.5 Measurement Result:

9.5.1 Radiated Spurious Emission

Cat M1 Band 2

Report Number :E2/2019/B0010
Operation Mode :M1 B2 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.6/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.31	-57.64	-39.61	-17.14	-0.89	-13.00	-44.64
68.80	-59.40	-45.95	-12.45	-1.00	-13.00	-46.40
73.65	-59.59	-48.03	-10.50	-1.06	-13.00	-46.59
94.02	-60.95	-53.94	-5.78	-1.23	-13.00	-47.95
123.12	-53.04	-44.48	-7.04	-1.52	-13.00	-40.04
463.59	-61.22	-56.63	-1.29	-3.30	-13.00	-48.22
3701.40	-50.28	-51.26	12.30	-11.32	-13.00	-37.28
5552.10	-53.04	-54.96	13.31	-11.39	-13.00	-40.04
7402.80	-36.36	-34.80	11.21	-12.77	-13.00	-23.36

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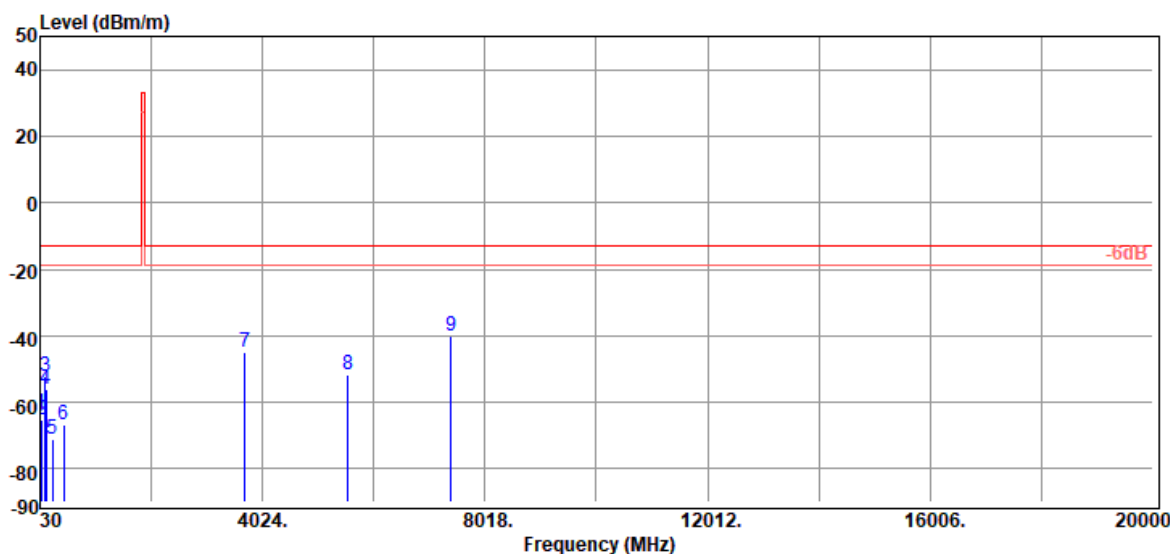
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Report Number :E2/2019/B0010
Operation Mode :M1 B2 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.6/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



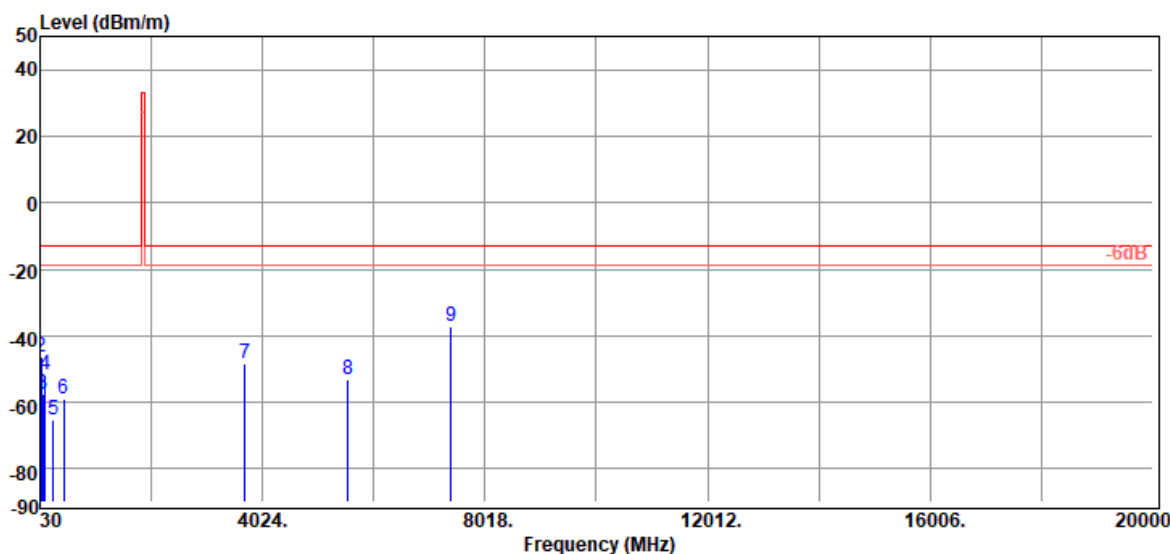
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-63.42	-42.92	-19.77	-0.73	-13.00	-50.42
68.80	-65.37	-51.92	-12.45	-1.00	-13.00	-52.37
128.94	-52.05	-43.18	-7.23	-1.64	-13.00	-39.05
144.46	-55.85	-46.54	-7.64	-1.67	-13.00	-42.85
258.92	-71.08	-67.28	-1.53	-2.27	-13.00	-58.08
460.68	-66.93	-62.27	-1.28	-3.38	-13.00	-53.93
3701.40	-44.91	-45.89	12.30	-11.32	-13.00	-31.91
5552.10	-51.97	-53.89	13.31	-11.39	-13.00	-38.97
7402.80	-40.15	-38.59	11.22	-12.78	-13.00	-27.15

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Report Number :E2/2019/B0010
Operation Mode :M1 B2 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.6/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-57.97	-37.57	-19.64	-0.76	-13.00	-44.97
51.34	-46.42	-28.21	-17.33	-0.88	-13.00	-33.42
74.62	-57.60	-46.37	-10.16	-1.07	-13.00	-44.60
126.03	-51.94	-43.23	-7.13	-1.58	-13.00	-38.94
265.71	-65.21	-61.36	-1.58	-2.27	-13.00	-52.21
459.71	-58.86	-54.18	-1.29	-3.39	-13.00	-45.86
3701.40	-48.32	-49.30	12.30	-11.32	-13.00	-35.32
5552.10	-53.14	-55.06	13.31	-11.39	-13.00	-40.14
7402.80	-37.31	-35.75	11.21	-12.77	-13.00	-24.31

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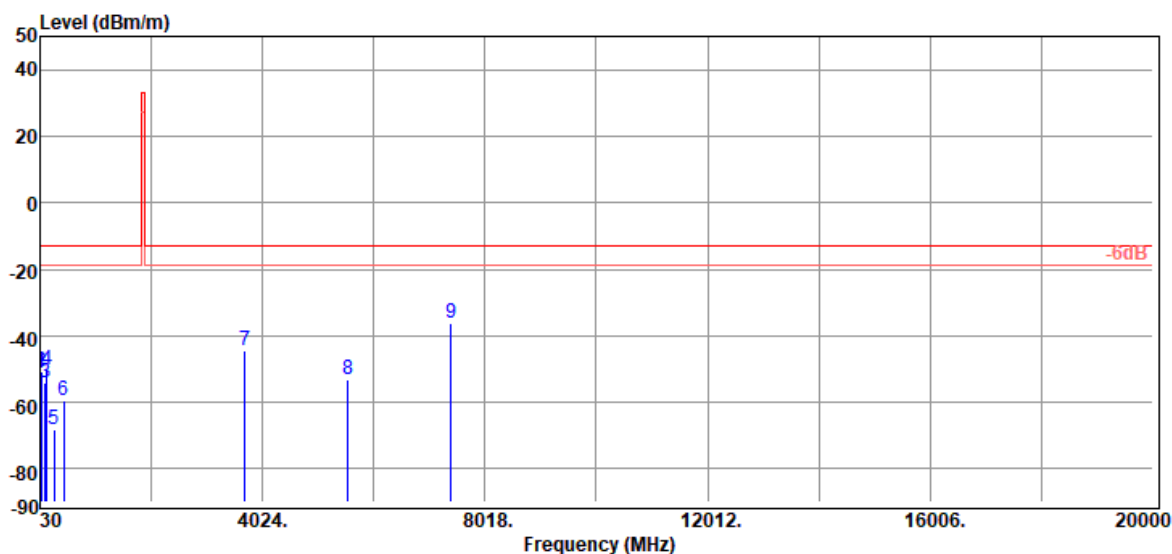
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Report Number :E2/2019/B0010
Operation Mode :M1 B2 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.6/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-51.21	-30.66	-19.84	-0.71	-13.00	-38.21
54.25	-50.60	-32.95	-16.73	-0.92	-13.00	-37.60
126.03	-54.03	-45.32	-7.13	-1.58	-13.00	-41.03
149.31	-50.35	-41.21	-7.46	-1.68	-13.00	-37.35
278.32	-68.40	-64.33	-1.68	-2.39	-13.00	-55.40
461.65	-59.66	-55.03	-1.28	-3.35	-13.00	-46.66
3701.40	-44.52	-45.50	12.30	-11.32	-13.00	-31.52
5552.10	-52.95	-54.87	13.31	-11.39	-13.00	-39.95
7402.80	-36.27	-34.71	11.21	-12.77	-13.00	-23.27

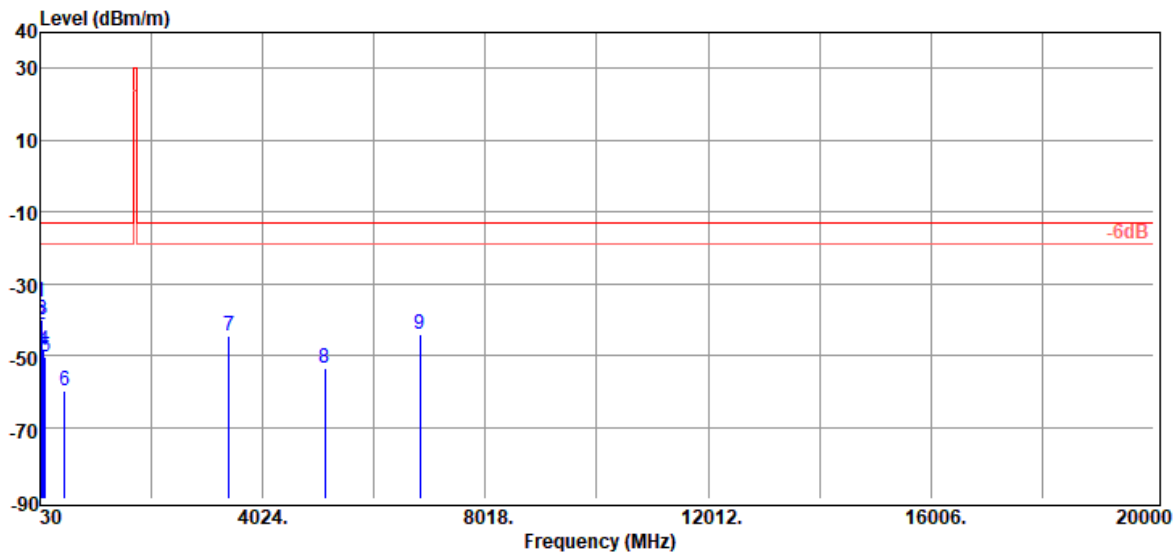
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Cat M1 Band 4

Report Number :E2/2019/B0010
Operation Mode :M1 B4 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1710.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.8/48
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
37.76	-35.10	-14.95	-19.35	-0.80	-13.00	-22.10
45.52	-41.22	-21.98	-18.38	-0.86	-13.00	-28.22
66.86	-40.11	-26.06	-13.05	-1.00	-13.00	-27.11
101.78	-48.55	-40.76	-6.44	-1.35	-13.00	-35.55
130.88	-50.21	-41.26	-7.29	-1.66	-13.00	-37.21
466.50	-59.86	-55.36	-1.29	-3.21	-13.00	-46.86
3421.40	-44.36	-45.71	12.66	-11.31	-13.00	-31.36
5132.10	-53.42	-54.10	12.46	-11.78	-13.00	-40.42
6842.80	-44.24	-44.28	12.43	-12.39	-13.00	-31.24

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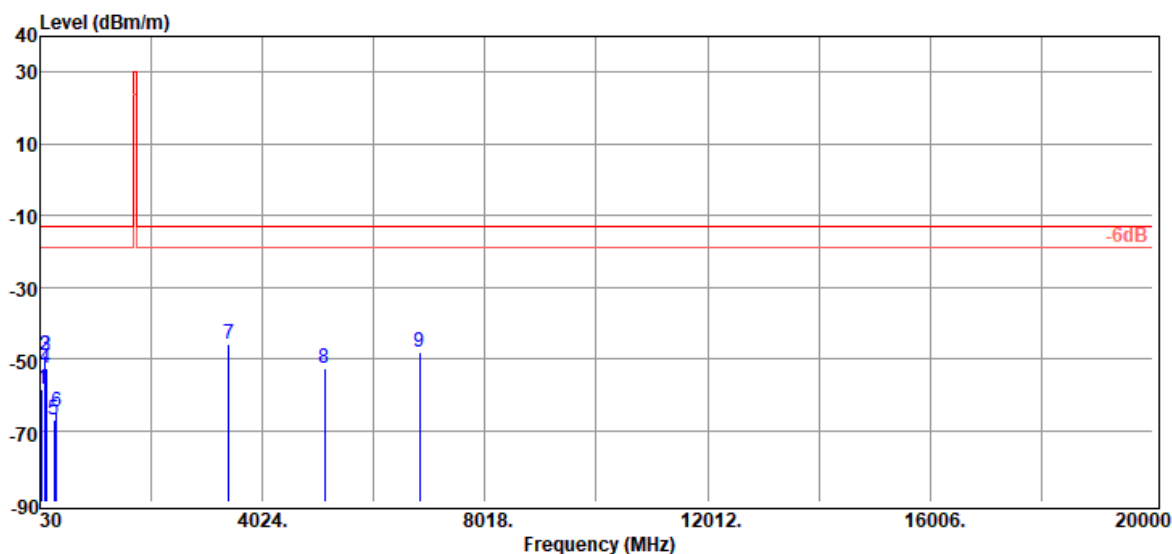
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Report Number :E2/2019/B0010
Operation Mode :M1 B4 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1710.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.8/48
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.80	-58.48	-45.03	-12.45	-1.00	-13.00	-45.48
127.00	-48.98	-40.22	-7.16	-1.60	-13.00	-35.98
129.91	-48.98	-40.06	-7.26	-1.66	-13.00	-35.98
145.43	-52.68	-43.38	-7.63	-1.67	-13.00	-39.68
276.38	-66.88	-62.86	-1.66	-2.36	-13.00	-53.88
325.85	-64.59	-60.31	-1.59	-2.69	-13.00	-51.59
3421.40	-45.75	-47.10	12.66	-11.31	-13.00	-32.75
5132.10	-52.54	-53.22	12.46	-11.78	-13.00	-39.54
6842.80	-48.02	-48.06	12.43	-12.39	-13.00	-35.02

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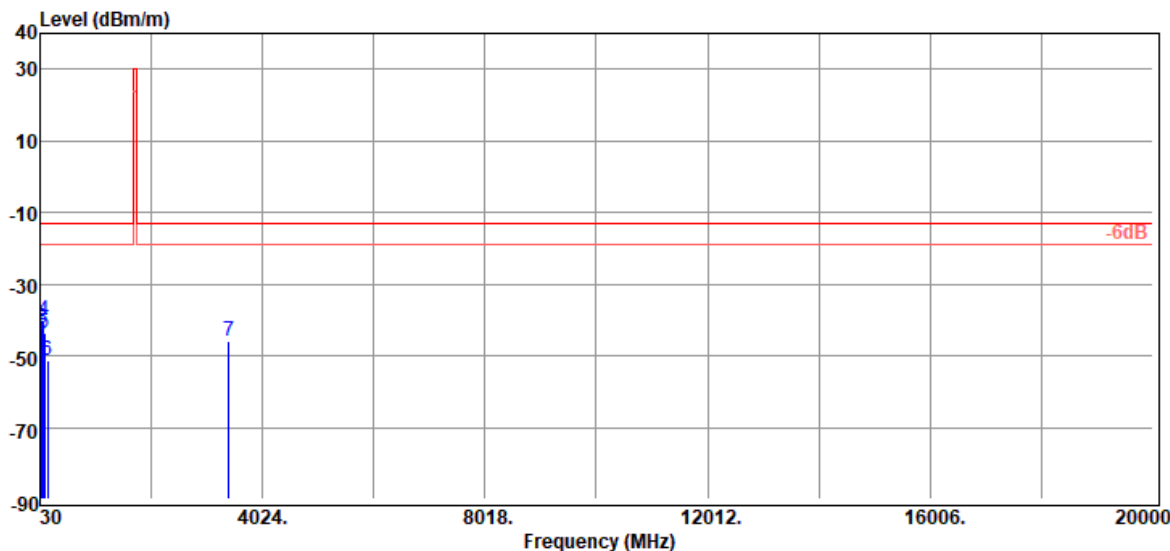
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Report Number :E2/2019/B0010
Operation Mode :M1 B4 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1710.7 MHz

Test Date :2019-12-11
Temp./Humi. :25.8/48
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
43.58	-46.97	-27.40	-18.71	-0.86	-13.00	-33.97
50.37	-46.47	-28.10	-17.50	-0.87	-13.00	-33.47
70.74	-42.52	-29.79	-11.72	-1.01	-13.00	-29.52
94.99	-40.25	-33.32	-5.69	-1.24	-13.00	-27.25
108.57	-43.58	-35.17	-6.98	-1.43	-13.00	-30.58
164.83	-51.44	-43.13	-6.60	-1.71	-13.00	-38.44
3421.40	-46.11	-47.46	12.66	-11.31	-13.00	-33.11

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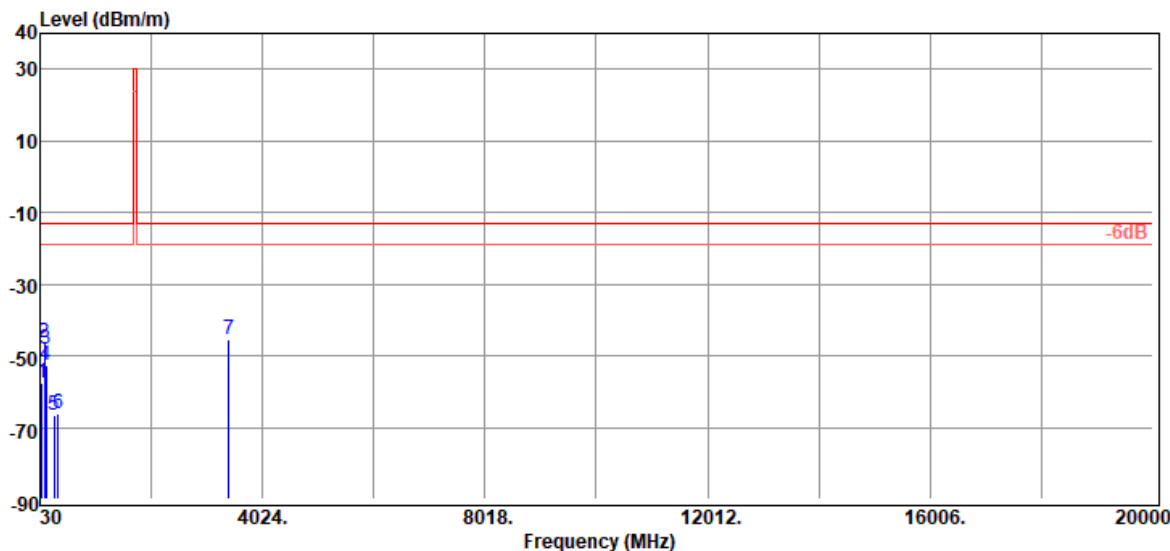
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Report Number :E2/2019/B0010
 Operation Mode :M1 B4 16QAM
 Test Mode :TX CH MID
 EUT Pol :E2 Plane
 Test Channel :1710.7 MHz

Test Date :2019-12-11
 Temp./Humi. :25.8/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-57.57	-44.46	-12.11	-1.00	-13.00	-44.57
112.45	-46.18	-37.56	-7.17	-1.45	-13.00	-33.18
127.00	-48.16	-39.40	-7.16	-1.60	-13.00	-35.16
136.70	-52.57	-43.31	-7.60	-1.66	-13.00	-39.57
277.35	-66.73	-62.69	-1.67	-2.37	-13.00	-53.73
353.98	-65.95	-62.03	-1.34	-2.58	-13.00	-52.95
3421.40	-45.45	-46.80	12.66	-11.31	-13.00	-32.45

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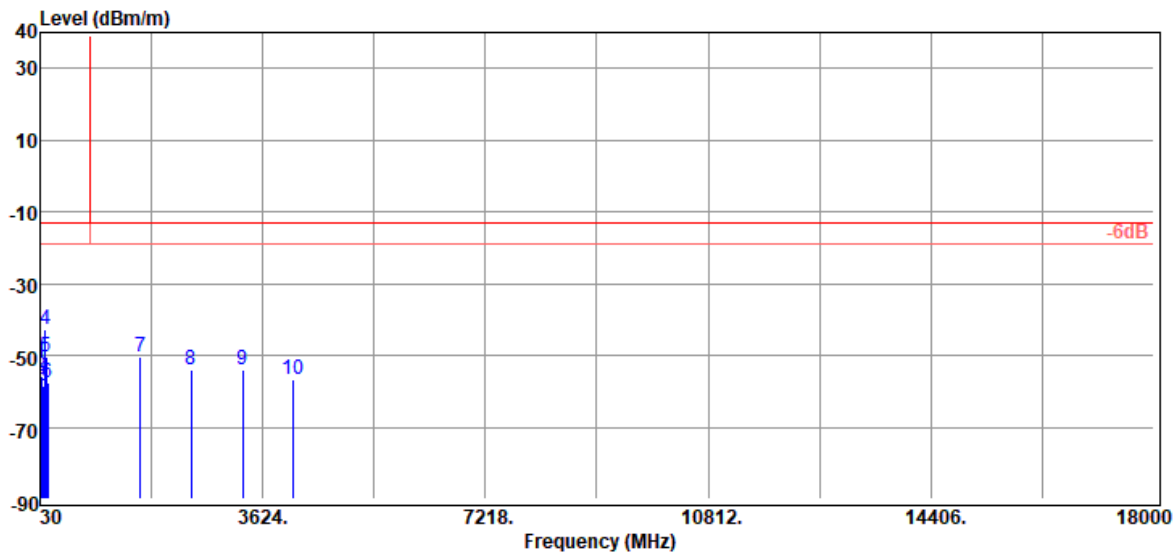
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Cat M1 Band 5

Report Number :E2/2019/B0010
Operation Mode :M1 B5 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.9/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.85	-51.57	-31.07	-19.77	-0.73	-13.00	-38.57
55.22	-55.79	-38.38	-16.48	-0.93	-13.00	-42.79
72.68	-58.51	-46.53	-10.94	-1.04	-13.00	-45.51
110.51	-42.65	-34.18	-7.02	-1.45	-13.00	-29.65
125.06	-50.59	-41.93	-7.10	-1.56	-13.00	-37.59
150.28	-57.41	-48.33	-7.40	-1.68	-13.00	-44.41
1649.40	-50.44	-52.21	9.30	-7.53	-13.00	-37.44
2474.10	-53.82	-55.37	10.55	-9.00	-13.00	-40.82
3298.80	-54.15	-55.09	12.19	-11.25	-13.00	-41.15
4123.50	-56.58	-58.60	12.85	-10.83	-13.00	-43.58

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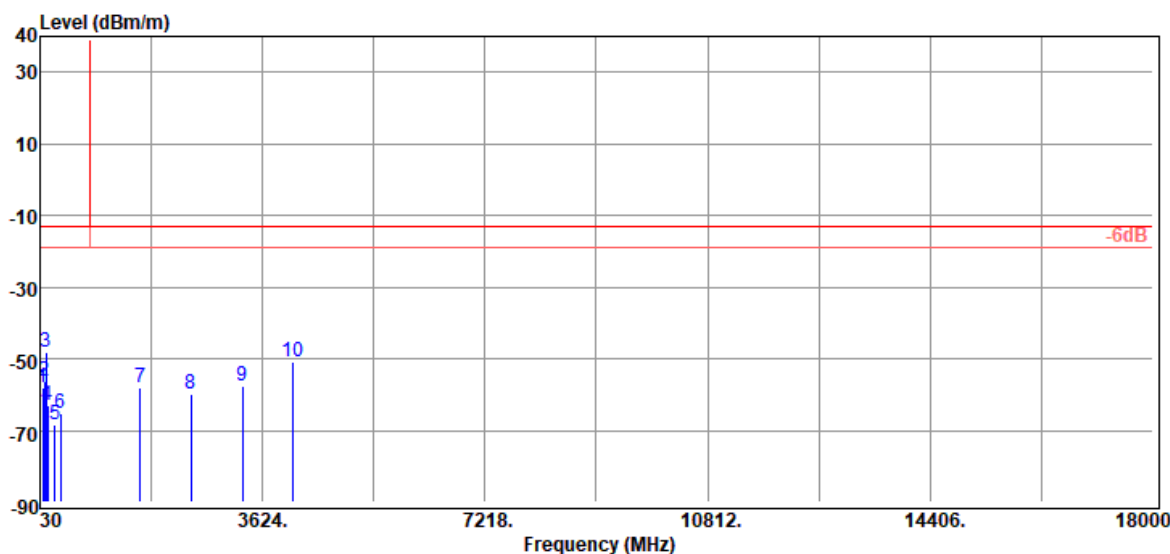
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Report Number :E2/2019/B0010
Operation Mode :M1 B5 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.9/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-57.89	-45.16	-11.72	-1.01	-13.00	-44.89
97.90	-56.24	-48.94	-6.01	-1.29	-13.00	-43.24
127.00	-48.18	-39.42	-7.16	-1.60	-13.00	-35.18
148.34	-62.94	-53.75	-7.51	-1.68	-13.00	-49.94
274.44	-68.52	-64.54	-1.65	-2.33	-13.00	-55.52
359.80	-65.18	-61.19	-1.41	-2.58	-13.00	-52.18
1649.40	-57.96	-59.73	9.30	-7.53	-13.00	-44.96
2474.10	-60.06	-61.61	10.55	-9.00	-13.00	-47.06
3298.80	-57.74	-58.68	12.19	-11.25	-13.00	-44.74
4123.50	-50.66	-52.68	12.85	-10.83	-13.00	-37.66

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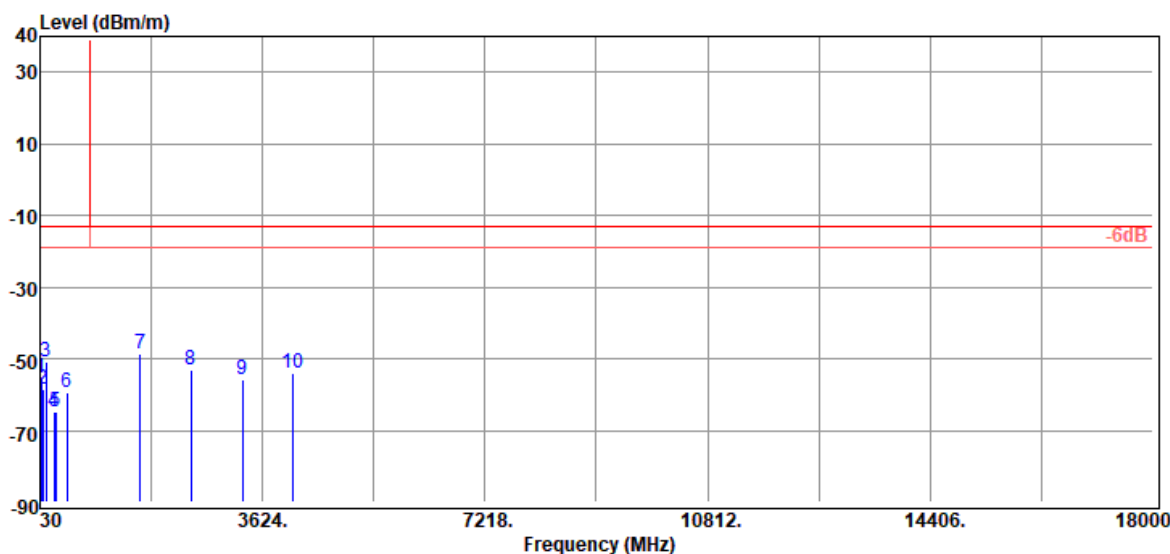
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Report Number :E2/2019/B0010
Operation Mode :M1 B5 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.9/47
Antenna Pol. :VERTICAL
Engineer :Ashton



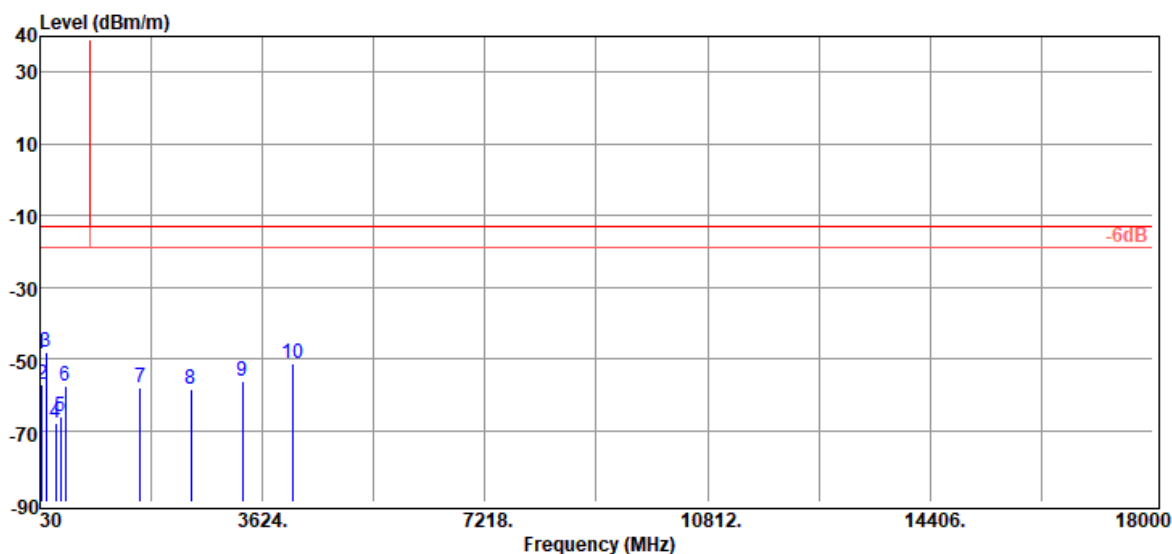
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-55.58	-37.93	-16.73	-0.92	-13.00	-42.58
73.65	-58.33	-46.77	-10.50	-1.06	-13.00	-45.33
125.06	-50.67	-42.01	-7.10	-1.56	-13.00	-37.67
260.86	-64.71	-60.89	-1.55	-2.27	-13.00	-51.71
278.32	-64.70	-60.63	-1.68	-2.39	-13.00	-51.70
467.47	-59.28	-54.81	-1.29	-3.18	-13.00	-46.28
1649.40	-48.48	-50.25	9.30	-7.53	-13.00	-35.48
2474.10	-52.95	-54.50	10.55	-9.00	-13.00	-39.95
3298.80	-55.84	-56.76	12.16	-11.24	-13.00	-42.84
4123.50	-53.83	-55.85	12.85	-10.83	-13.00	-40.83

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Report Number :E2/2019/B0010
Operation Mode :M1 B5 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.9/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-48.75	-27.50	-20.62	-0.63	-13.00	-35.75
68.80	-57.01	-43.56	-12.45	-1.00	-13.00	-44.01
128.94	-48.18	-39.31	-7.23	-1.64	-13.00	-35.18
280.26	-67.95	-63.84	-1.70	-2.41	-13.00	-54.95
356.89	-66.24	-62.29	-1.37	-2.58	-13.00	-53.24
441.28	-57.69	-53.40	-1.37	-2.92	-13.00	-44.69
1649.40	-57.90	-59.67	9.30	-7.53	-13.00	-44.90
2474.10	-58.64	-60.19	10.55	-9.00	-13.00	-45.64
3298.80	-56.24	-57.18	12.19	-11.25	-13.00	-43.24
4123.50	-51.44	-53.46	12.85	-10.83	-13.00	-38.44

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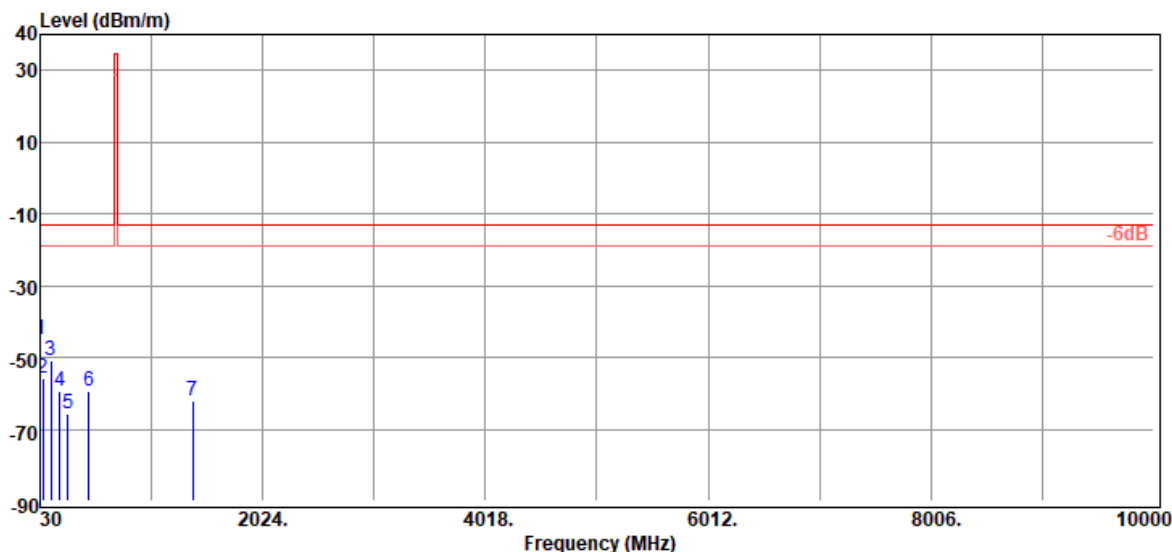
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Cat M1 Band 12

Report Number :E2/2019/B0010
Operation Mode :M1 B12 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :699.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.8/46
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-44.92	-24.52	-19.64	-0.76	-13.00	-31.92
55.22	-55.68	-38.27	-16.48	-0.93	-13.00	-42.68
127.00	-51.02	-42.26	-7.16	-1.60	-13.00	-38.02
206.54	-59.21	-55.32	-1.81	-2.08	-13.00	-46.21
279.29	-65.52	-61.43	-1.69	-2.40	-13.00	-52.52
463.59	-59.53	-54.94	-1.29	-3.30	-13.00	-46.53
1399.40	-62.02	-62.49	6.99	-6.52	-13.00	-49.02

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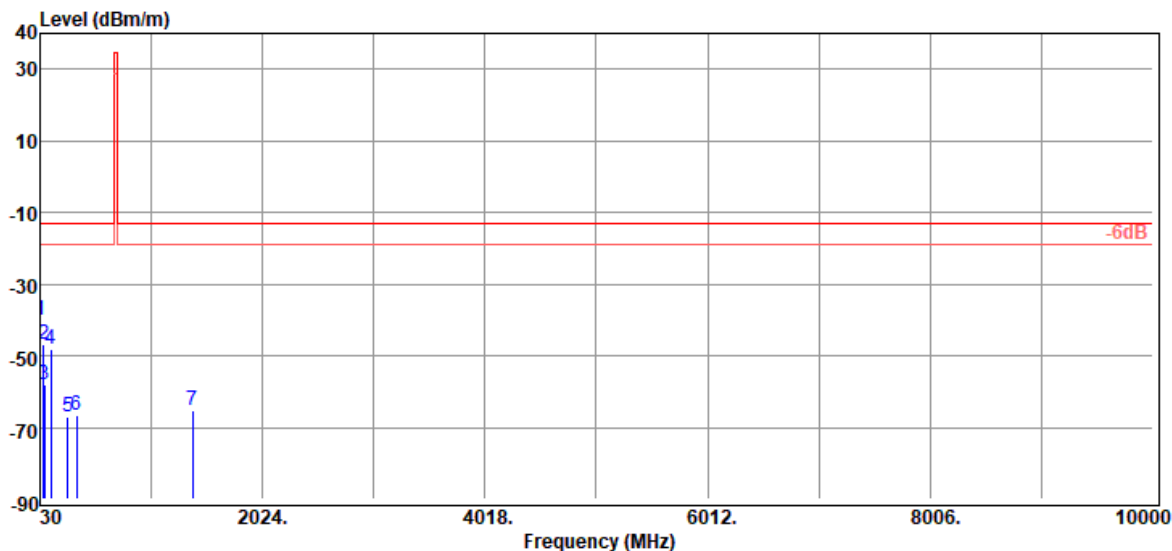
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Report Number :E2/2019/B0010
Operation Mode :M1 B12 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :699.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.8/46
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-40.09	-19.69	-19.64	-0.76	-13.00	-27.09
61.04	-46.84	-30.92	-14.92	-1.00	-13.00	-33.84
69.77	-58.26	-45.15	-12.11	-1.00	-13.00	-45.26
128.94	-48.22	-39.35	-7.23	-1.64	-13.00	-35.22
278.32	-66.89	-62.82	-1.68	-2.39	-13.00	-53.89
356.89	-66.49	-62.54	-1.37	-2.58	-13.00	-53.49
1399.40	-65.39	-65.86	6.99	-6.52	-13.00	-52.39

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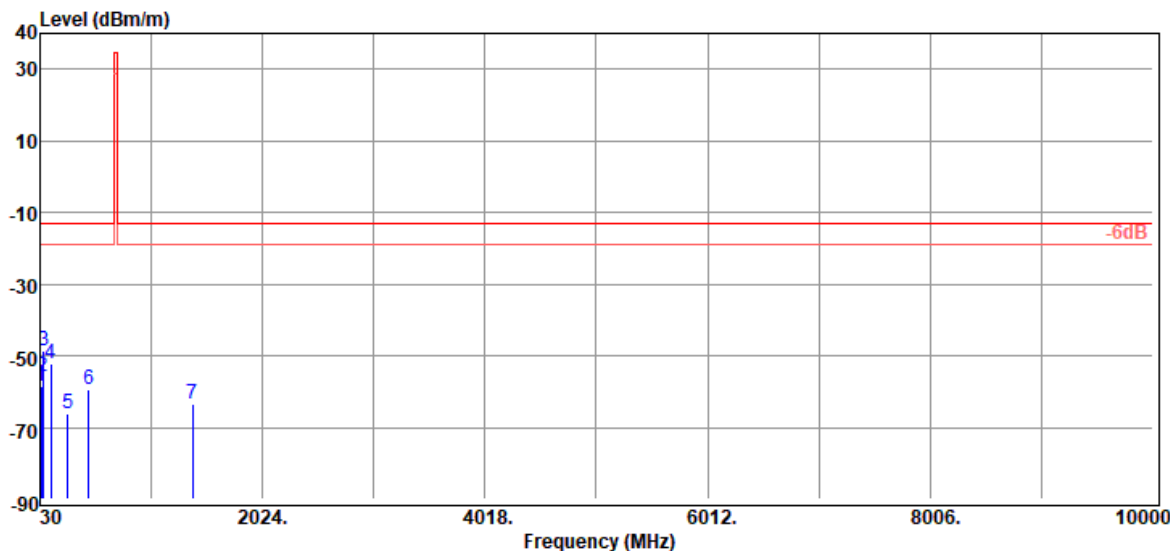
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Report Number :E2/2019/B0010
Operation Mode :M1 B12 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :699.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.8/46
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-58.66	-38.99	-18.81	-0.86	-13.00	-45.66
54.25	-55.88	-38.23	-16.73	-0.92	-13.00	-42.88
61.04	-48.42	-32.50	-14.92	-1.00	-13.00	-35.42
127.97	-52.00	-43.18	-7.20	-1.62	-13.00	-39.00
280.26	-65.94	-61.83	-1.70	-2.41	-13.00	-52.94
463.59	-59.33	-54.74	-1.29	-3.30	-13.00	-46.33
1399.40	-63.48	-63.95	6.99	-6.52	-13.00	-50.48

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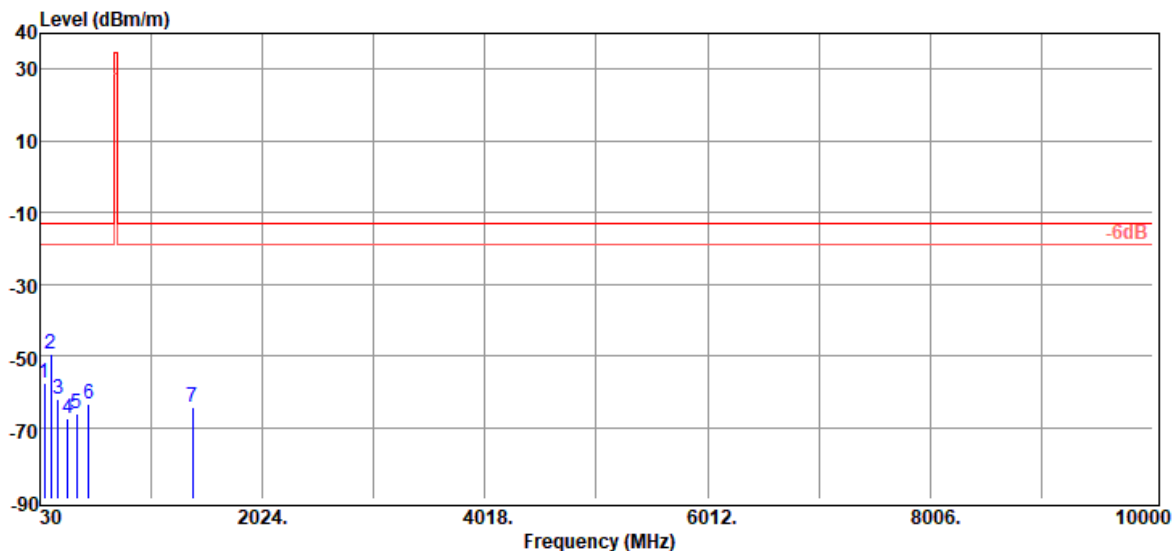
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Report Number :E2/2019/B0010
Operation Mode :M1 B12 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :699.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.8/46
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-57.78	-44.33	-12.45	-1.00	-13.00	-44.78
128.94	-49.45	-40.58	-7.23	-1.64	-13.00	-36.45
190.05	-61.98	-57.16	-2.95	-1.87	-13.00	-48.98
280.26	-67.56	-63.45	-1.70	-2.41	-13.00	-54.56
356.89	-66.33	-62.38	-1.37	-2.58	-13.00	-53.33
465.53	-63.35	-58.82	-1.29	-3.24	-13.00	-50.35
1399.40	-64.53	-65.00	6.99	-6.52	-13.00	-51.53

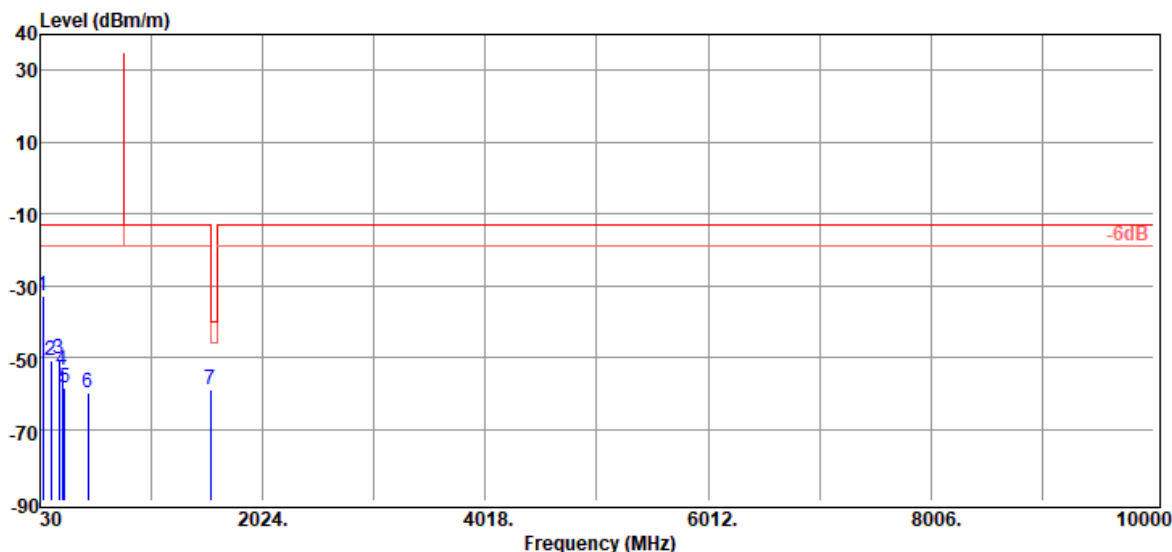
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Cat M1 Band 13

Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.4/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.31	-32.93	-14.90	-17.14	-0.89	-13.00	-19.93
125.06	-50.80	-42.14	-7.10	-1.56	-13.00	-37.80
199.75	-50.43	-46.23	-2.13	-2.07	-13.00	-37.43
226.91	-53.69	-50.22	-1.28	-2.19	-13.00	-40.69
252.13	-58.49	-54.70	-1.55	-2.24	-13.00	-45.49
460.68	-59.85	-55.19	-1.28	-3.38	-13.00	-46.85
1559.00	-58.75	-60.44	8.69	-7.00	-40.00	-18.75

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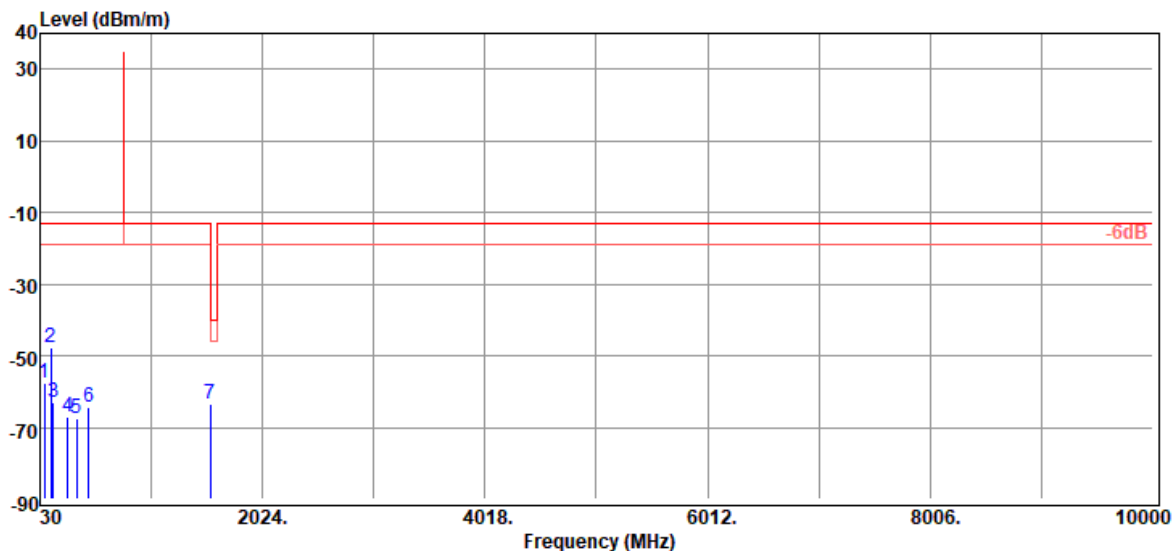
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.4/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-57.39	-44.28	-12.11	-1.00	-13.00	-44.39
127.00	-47.57	-38.81	-7.16	-1.60	-13.00	-34.57
151.25	-63.02	-53.99	-7.35	-1.68	-13.00	-50.02
278.32	-66.88	-62.81	-1.68	-2.39	-13.00	-53.88
357.86	-67.71	-63.75	-1.38	-2.58	-13.00	-54.71
467.47	-64.16	-59.69	-1.29	-3.18	-13.00	-51.16
1559.00	-63.64	-65.33	8.69	-7.00	-40.00	-23.64

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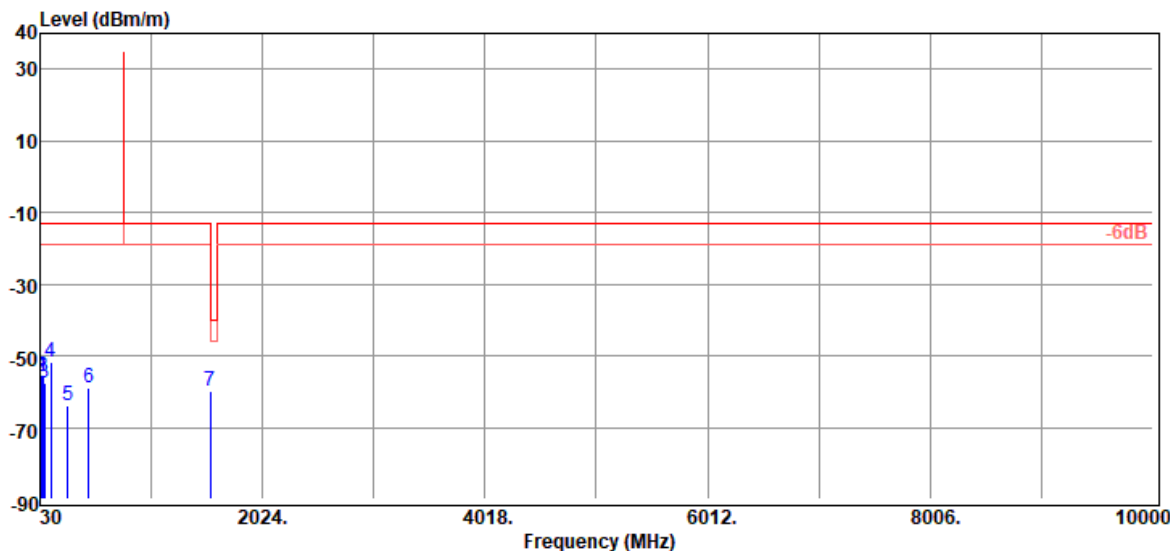
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.4/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-56.01	-37.08	-18.07	-0.86	-13.00	-43.01
53.28	-55.99	-38.17	-16.91	-0.91	-13.00	-42.99
67.83	-57.44	-43.61	-12.83	-1.00	-13.00	-44.44
126.03	-51.57	-42.86	-7.13	-1.58	-13.00	-38.57
279.29	-63.99	-59.90	-1.69	-2.40	-13.00	-50.99
466.50	-58.92	-54.42	-1.29	-3.21	-13.00	-45.92
1559.00	-59.87	-61.56	8.69	-7.00	-40.00	-19.87

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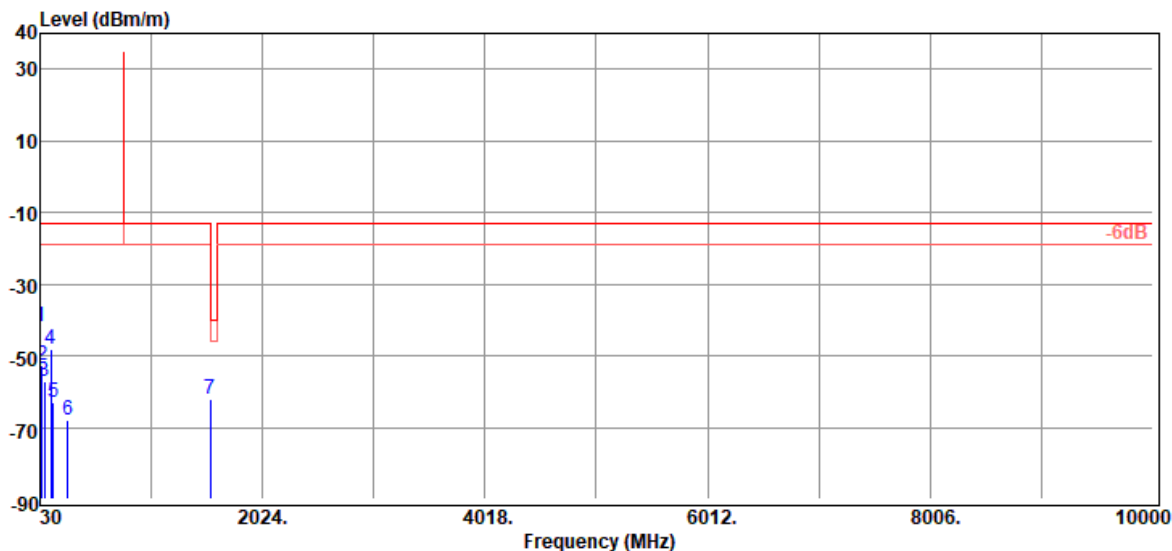
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.4/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-41.97	-21.20	-20.09	-0.68	-13.00	-28.97
45.52	-52.47	-33.23	-18.38	-0.86	-13.00	-39.47
67.83	-57.26	-43.43	-12.83	-1.00	-13.00	-44.26
127.00	-48.21	-39.45	-7.16	-1.60	-13.00	-35.21
151.25	-63.21	-54.18	-7.35	-1.68	-13.00	-50.21
277.35	-67.95	-63.91	-1.67	-2.37	-13.00	-54.95
1559.00	-62.19	-63.88	8.69	-7.00	-40.00	-22.19

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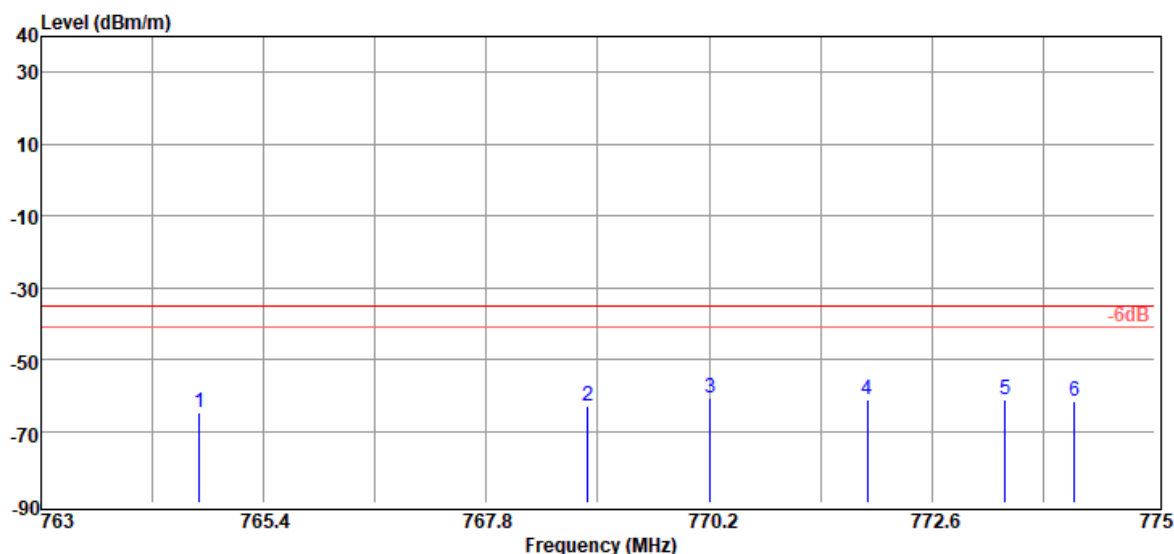
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Cat M1 Band 13 (763-775MHz)

Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
764.70	-64.72	-58.78	-1.67	-4.27	-35.00	-29.72
768.89	-62.91	-57.02	-1.62	-4.27	-35.00	-27.91
770.21	-60.79	-54.90	-1.61	-4.28	-35.00	-25.79
771.90	-61.10	-55.17	-1.59	-4.34	-35.00	-26.10
773.39	-61.42	-55.45	-1.57	-4.40	-35.00	-26.42
774.14	-61.62	-55.64	-1.56	-4.42	-35.00	-26.62

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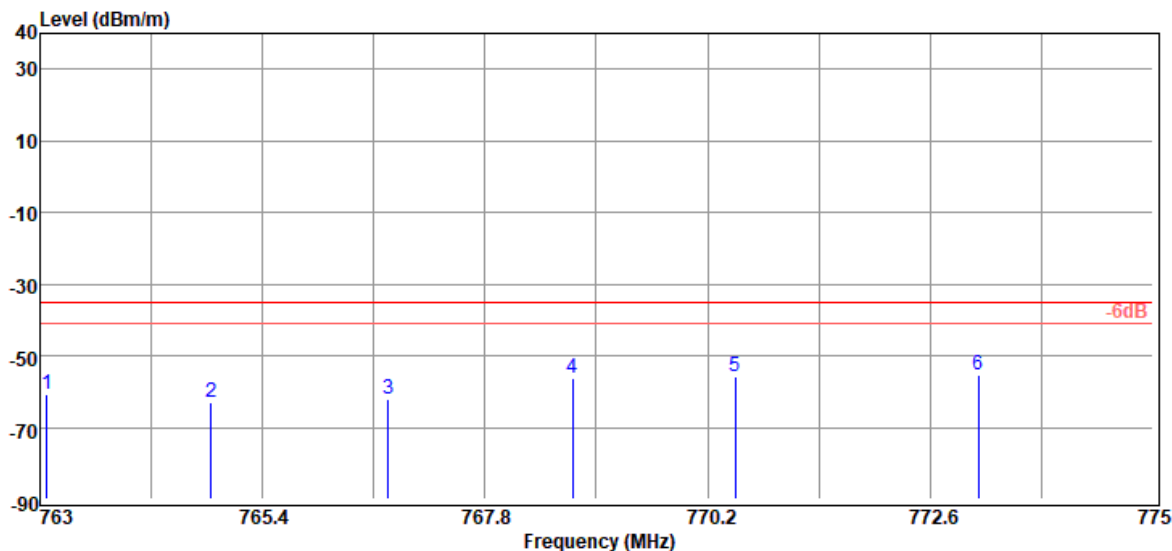
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



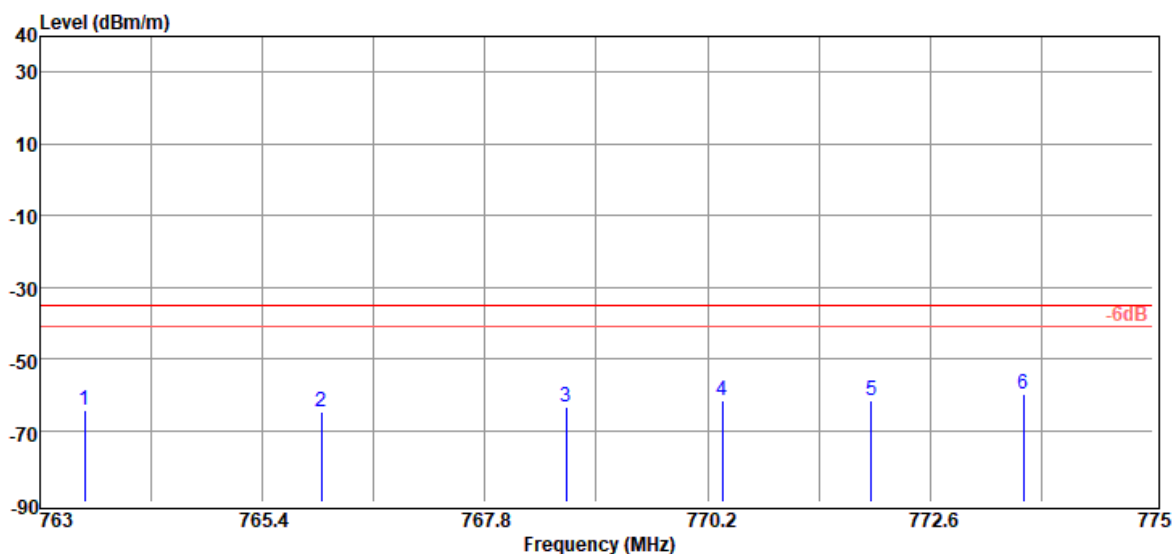
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.07	-60.98	-55.02	-1.69	-4.27	-35.00	-25.98
764.85	-63.00	-57.06	-1.67	-4.27	-35.00	-28.00
766.76	-62.27	-56.35	-1.65	-4.27	-35.00	-27.27
768.75	-56.42	-50.52	-1.63	-4.27	-35.00	-21.42
770.50	-55.99	-50.10	-1.60	-4.29	-35.00	-20.99
773.12	-55.47	-49.51	-1.57	-4.39	-35.00	-20.47

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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.48	-64.43	-58.47	-1.69	-4.27	-35.00	-29.43
766.04	-64.92	-58.99	-1.66	-4.27	-35.00	-29.92
768.68	-63.31	-57.41	-1.63	-4.27	-35.00	-28.31
770.36	-61.87	-55.98	-1.61	-4.28	-35.00	-26.87
771.96	-61.58	-55.65	-1.59	-4.34	-35.00	-26.58
773.61	-59.68	-53.71	-1.57	-4.40	-35.00	-24.68

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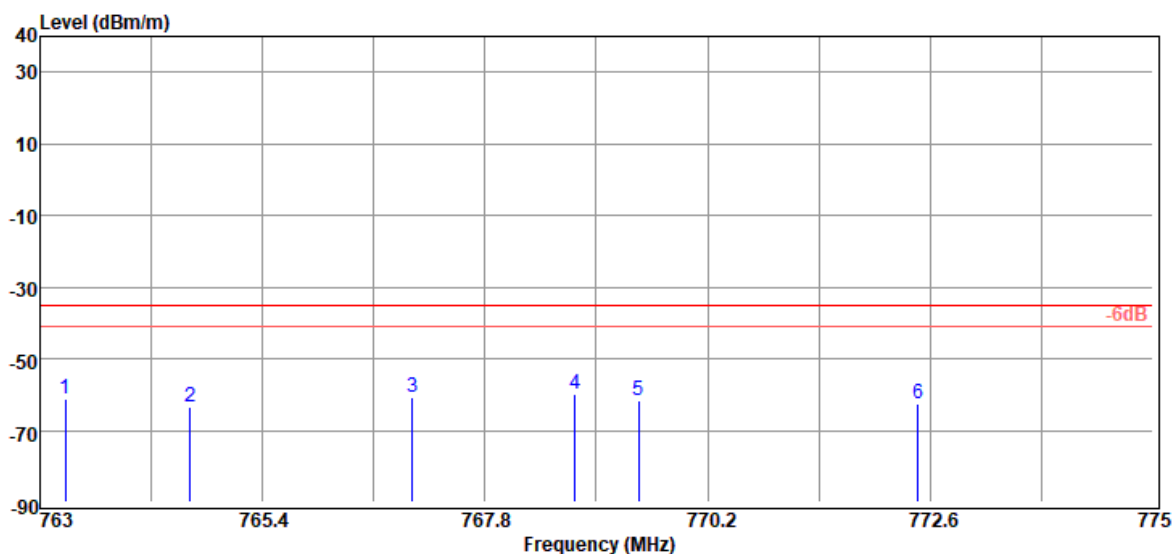
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
763.28	-61.26	-55.30	-1.69	-4.27	-35.00	-26.26
764.62	-63.51	-57.57	-1.67	-4.27	-35.00	-28.51
767.02	-60.97	-55.05	-1.65	-4.27	-35.00	-25.97
768.77	-59.64	-53.75	-1.62	-4.27	-35.00	-24.64
769.46	-61.55	-55.66	-1.62	-4.27	-35.00	-26.55
772.47	-62.46	-56.52	-1.58	-4.36	-35.00	-27.46

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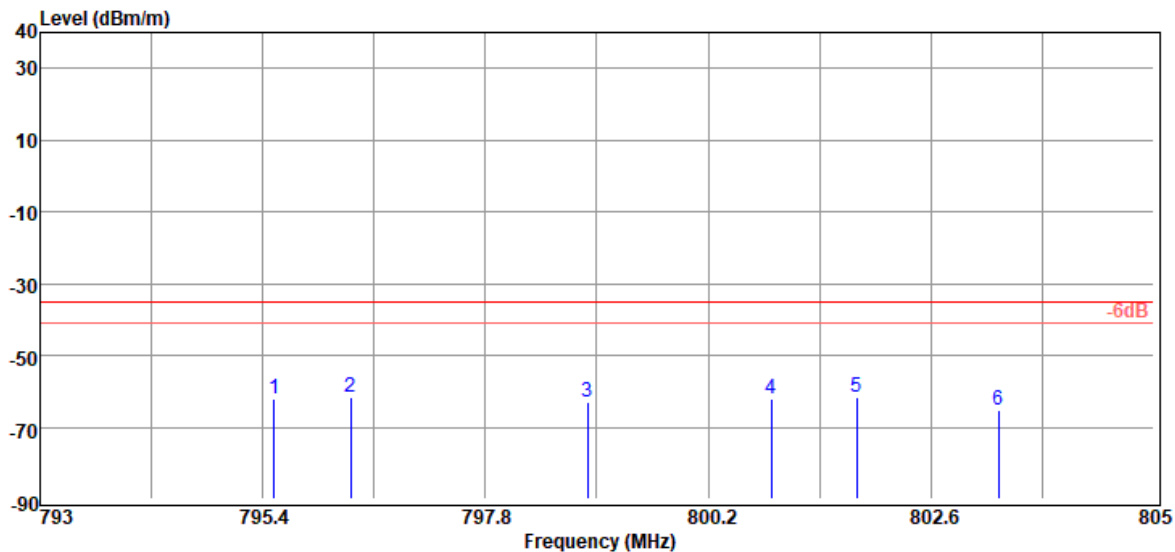
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Cat M1 Band 13 (793-805MHz)

Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
795.52	-61.91	-55.79	-1.71	-4.41	-35.00	-26.91
796.35	-61.76	-55.70	-1.69	-4.37	-35.00	-26.76
798.90	-62.99	-57.11	-1.61	-4.27	-35.00	-27.99
800.88	-61.91	-56.12	-1.57	-4.22	-35.00	-26.91
801.80	-61.63	-55.85	-1.56	-4.22	-35.00	-26.63
803.33	-65.31	-59.55	-1.54	-4.22	-35.00	-30.31

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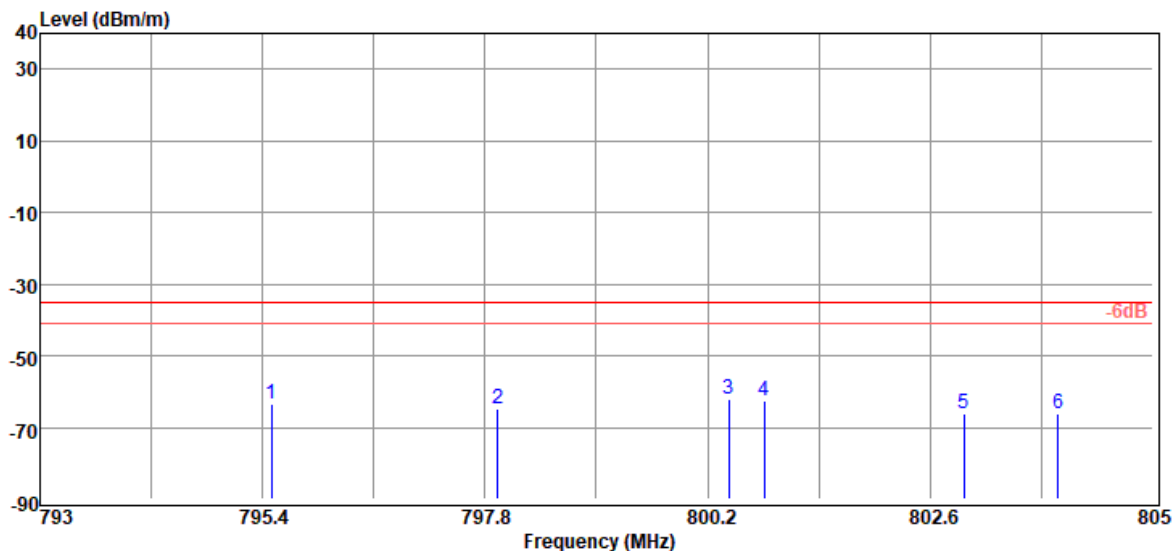
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Report Number :E2/2019/B0010
Operation Mode :M1 B13 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



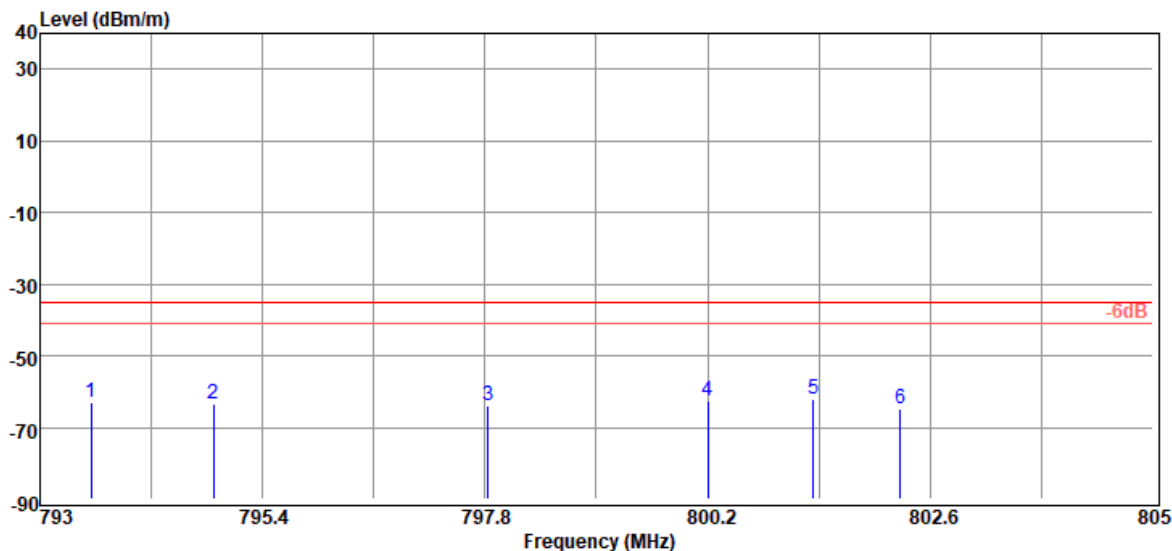
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
795.50	-63.64	-57.51	-1.72	-4.41	-35.00	-28.64
797.93	-64.78	-58.83	-1.64	-4.31	-35.00	-29.78
800.43	-61.98	-56.19	-1.57	-4.22	-35.00	-26.98
800.81	-62.44	-56.65	-1.57	-4.22	-35.00	-27.44
802.96	-66.08	-60.32	-1.54	-4.22	-35.00	-31.08
803.98	-66.16	-60.41	-1.53	-4.22	-35.00	-31.16

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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :VERTICAL
Engineer :Ashton



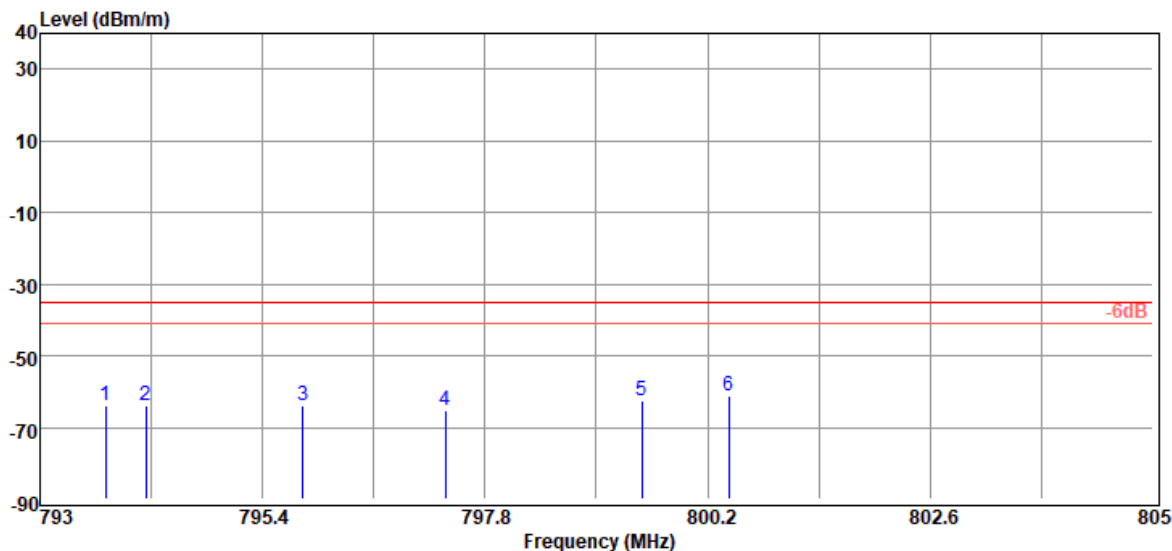
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.55	-62.99	-56.78	-1.72	-4.49	-35.00	-27.99
794.87	-63.64	-57.47	-1.73	-4.44	-35.00	-28.64
797.84	-63.93	-57.98	-1.64	-4.31	-35.00	-28.93
800.20	-62.54	-56.74	-1.58	-4.22	-35.00	-27.54
801.34	-62.29	-56.51	-1.56	-4.22	-35.00	-27.29
802.28	-64.90	-59.13	-1.55	-4.22	-35.00	-29.90

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Report Number :E2/2019/B0010
Operation Mode :M1 B13 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :779.5 MHz

Test Date :2019-12-11
Temp./Humi. :25.2/56
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
793.71	-63.77	-57.57	-1.72	-4.48	-35.00	-28.77
794.14	-63.85	-57.66	-1.72	-4.47	-35.00	-28.85
795.83	-63.83	-57.72	-1.71	-4.40	-35.00	-28.83
797.37	-65.05	-59.06	-1.66	-4.33	-35.00	-30.05
799.49	-62.56	-56.72	-1.60	-4.24	-35.00	-27.56
800.43	-61.41	-55.62	-1.57	-4.22	-35.00	-26.41

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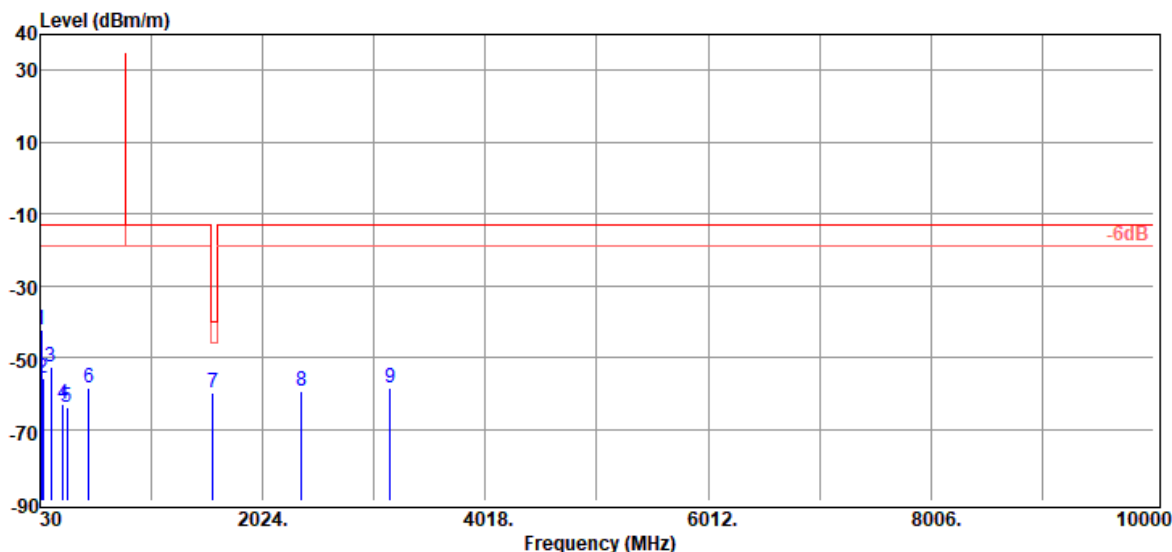
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Cat M1 Band 14

Report Number :E2/2019/B0010
Operation Mode :M1 B14 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :790.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
37.76	-42.09	-21.94	-19.35	-0.80	-13.00	-29.09
54.25	-55.69	-38.04	-16.73	-0.92	-13.00	-42.69
125.06	-52.82	-44.16	-7.10	-1.56	-13.00	-39.82
238.55	-63.19	-59.16	-1.81	-2.22	-13.00	-50.19
273.47	-64.01	-60.05	-1.64	-2.32	-13.00	-51.01
463.59	-58.60	-54.01	-1.29	-3.30	-13.00	-45.60
1581.00	-59.68	-61.48	8.91	-7.11	-40.00	-19.68
2371.50	-59.48	-60.64	10.03	-8.87	-13.00	-46.48
3162.00	-58.43	-58.94	11.40	-10.89	-13.00	-45.43

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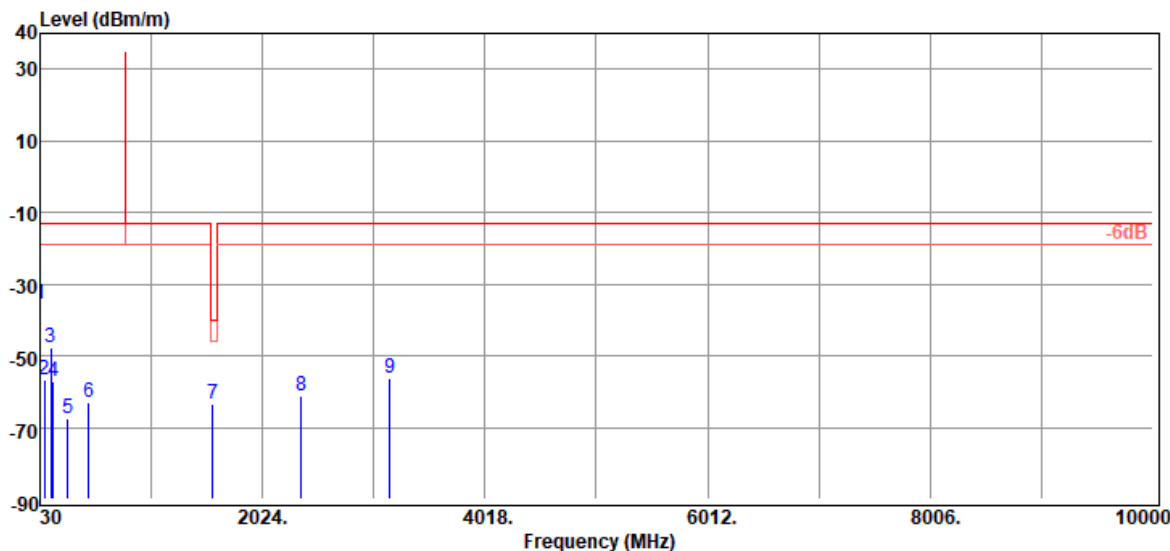
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Report Number :E2/2019/B0010
Operation Mode :M1 B14 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :790.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-35.69	-15.48	-19.43	-0.78	-13.00	-22.69
70.74	-56.88	-44.15	-11.72	-1.01	-13.00	-43.88
127.00	-47.62	-38.86	-7.16	-1.60	-13.00	-34.62
148.34	-57.15	-47.96	-7.51	-1.68	-13.00	-44.15
278.32	-67.67	-63.60	-1.68	-2.39	-13.00	-54.67
467.47	-63.09	-58.62	-1.29	-3.18	-13.00	-50.09
1581.00	-63.46	-65.26	8.91	-7.11	-40.00	-23.46
2371.50	-61.23	-62.39	10.03	-8.87	-13.00	-48.23
3162.00	-56.30	-56.81	11.40	-10.89	-13.00	-43.30

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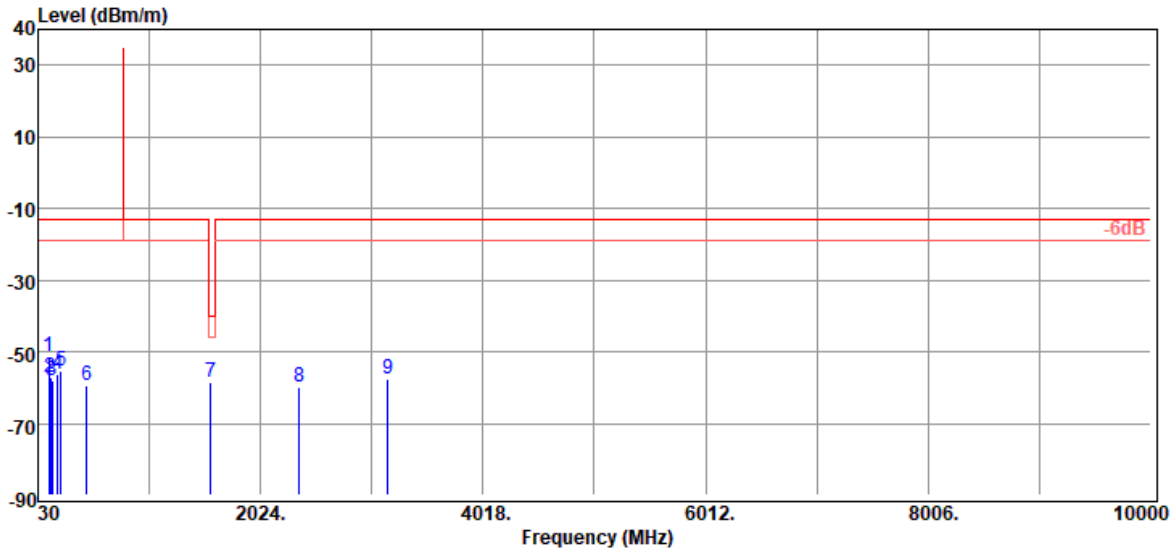
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Report Number :E2/2019/B0010
Operation Mode :M1 B14 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :790.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/47
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-51.44	-42.62	-7.20	-1.62	-13.00	-38.44
144.46	-57.06	-47.75	-7.64	-1.67	-13.00	-44.06
157.07	-58.19	-49.49	-7.02	-1.68	-13.00	-45.19
208.48	-56.44	-52.67	-1.69	-2.08	-13.00	-43.44
236.61	-55.55	-51.57	-1.76	-2.22	-13.00	-42.55
466.50	-59.24	-54.74	-1.29	-3.21	-13.00	-46.24
1581.00	-58.47	-60.27	8.91	-7.11	-40.00	-18.47
2371.50	-59.80	-60.96	10.03	-8.87	-13.00	-46.80
3162.00	-57.46	-57.97	11.40	-10.89	-13.00	-44.46

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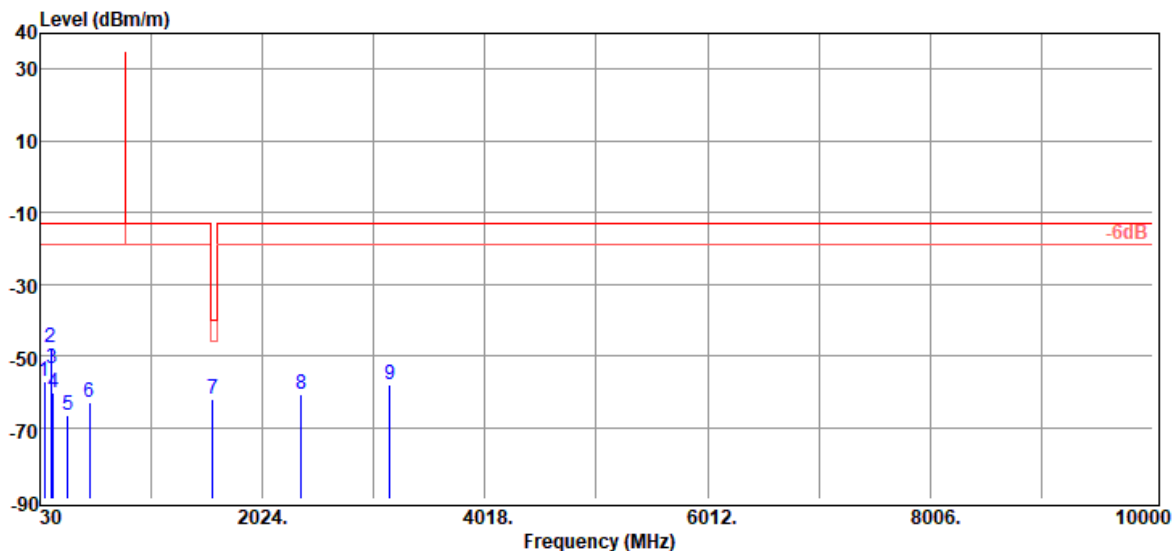
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Report Number :E2/2019/B0010
Operation Mode :M1 B14 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :790.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/47
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-57.03	-44.30	-11.72	-1.01	-13.00	-44.03
127.00	-47.92	-39.16	-7.16	-1.60	-13.00	-34.92
137.67	-53.58	-44.29	-7.63	-1.66	-13.00	-40.58
149.31	-60.28	-51.14	-7.46	-1.68	-13.00	-47.28
277.35	-66.74	-62.70	-1.67	-2.37	-13.00	-53.74
470.38	-63.18	-58.77	-1.30	-3.11	-13.00	-50.18
1581.00	-62.08	-63.88	8.91	-7.11	-40.00	-22.08
2371.50	-60.95	-62.11	10.03	-8.87	-13.00	-47.95
3162.00	-58.26	-58.77	11.40	-10.89	-13.00	-45.26

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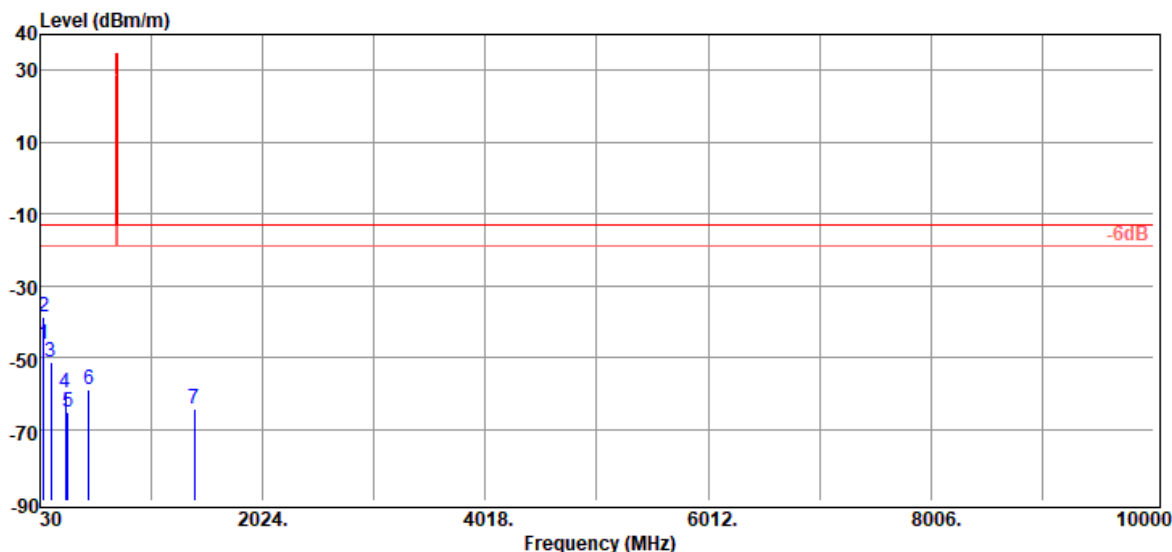
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Cat M1 Band 17

Report Number :E2/2019/B0010
Operation Mode :M1 B17 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :706.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/46
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-46.45	-29.96	-15.50	-0.99	-13.00	-33.45
65.89	-38.92	-24.62	-13.30	-1.00	-13.00	-25.92
126.03	-51.13	-42.42	-7.13	-1.58	-13.00	-38.13
256.98	-59.89	-56.11	-1.52	-2.26	-13.00	-46.89
280.26	-65.10	-60.99	-1.70	-2.41	-13.00	-52.10
465.53	-59.16	-54.63	-1.29	-3.24	-13.00	-46.16
1413.00	-64.51	-65.07	7.10	-6.54	-13.00	-51.51

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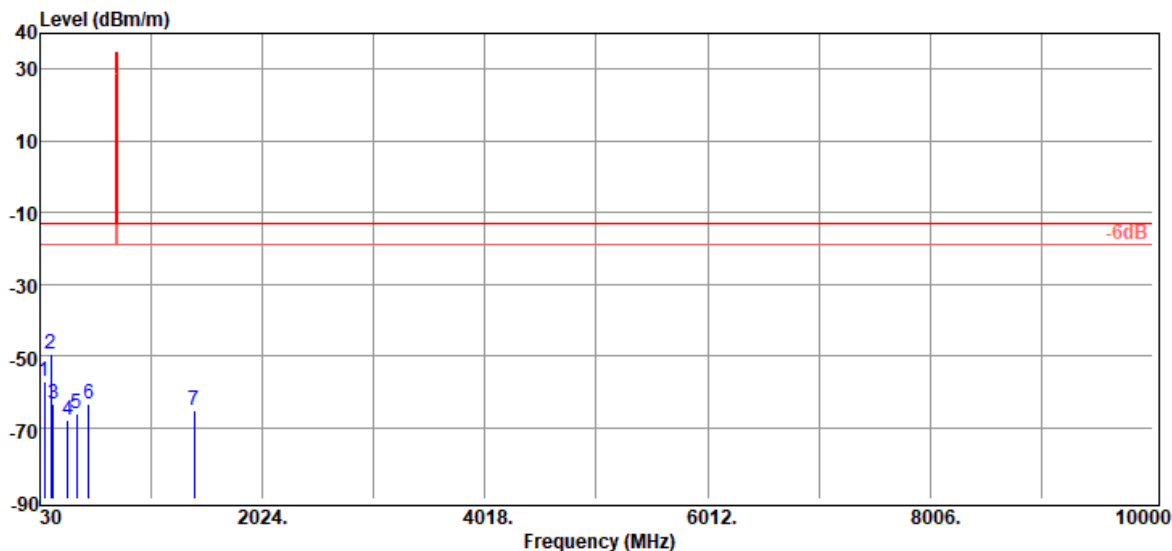
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Report Number :E2/2019/B0010
Operation Mode :M1 B17 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :706.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/46
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-57.31	-43.86	-12.45	-1.00	-13.00	-44.31
127.97	-49.56	-40.74	-7.20	-1.62	-13.00	-36.56
150.28	-63.62	-54.54	-7.40	-1.68	-13.00	-50.62
279.29	-67.89	-63.80	-1.69	-2.40	-13.00	-54.89
358.83	-66.29	-62.32	-1.39	-2.58	-13.00	-53.29
466.50	-63.60	-59.10	-1.29	-3.21	-13.00	-50.60
1413.00	-65.33	-65.89	7.10	-6.54	-13.00	-52.33

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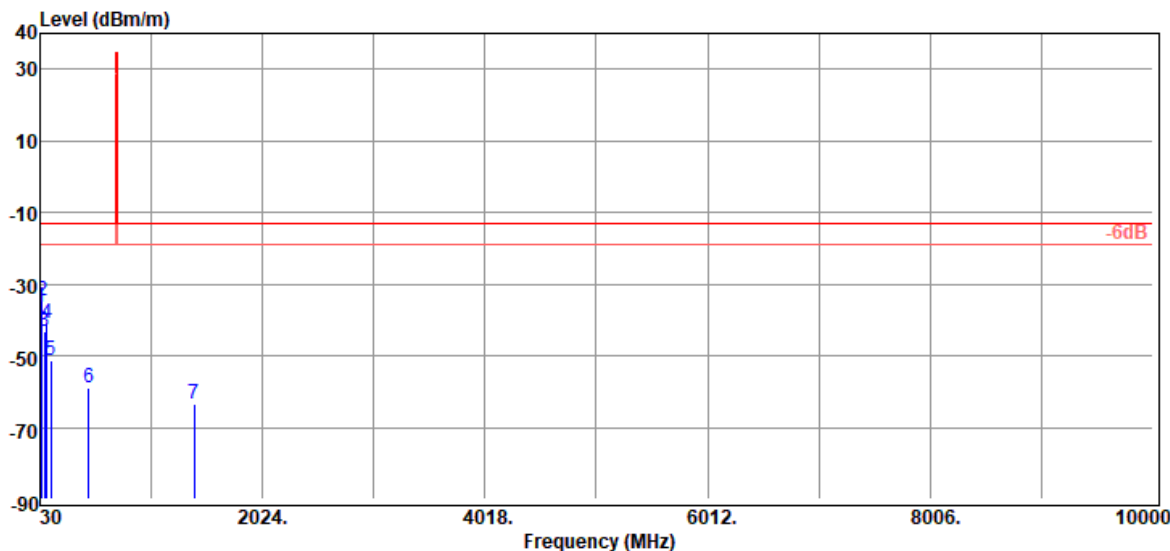
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Report Number :E2/2019/B0010
Operation Mode :M1 B17 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :706.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/46
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-36.63	-16.08	-19.84	-0.71	-13.00	-23.63
47.46	-34.71	-15.78	-18.07	-0.86	-13.00	-21.71
67.83	-43.07	-29.24	-12.83	-1.00	-13.00	-30.07
94.02	-41.13	-34.12	-5.78	-1.23	-13.00	-28.13
127.00	-51.19	-42.43	-7.16	-1.60	-13.00	-38.19
463.59	-58.95	-54.36	-1.29	-3.30	-13.00	-45.95
1413.00	-63.42	-63.98	7.10	-6.54	-13.00	-50.42

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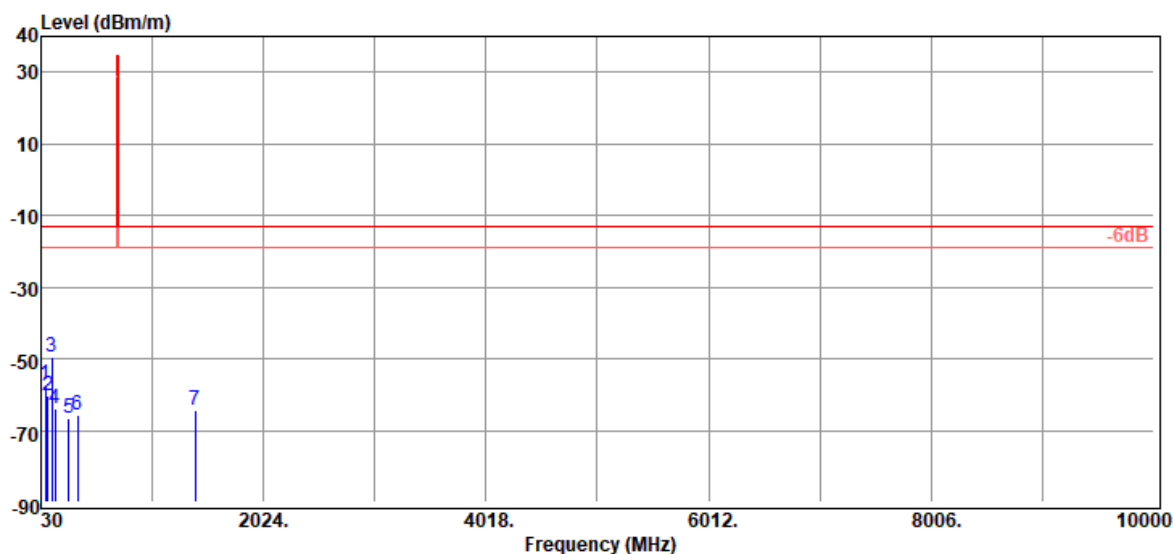
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Report Number	:E2/2019/B0010
Operation Mode	:M1 B17 16QAM
Test Mode	:TX CH MID
EUT Pol	:E2 Plane
Test Channel	:706.5 MHz

Test Date :2019-12-11
Temp./Humi. :24.5/46
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
68.80	-57.09	-43.64	-12.45	-1.00	-13.00	-44.09
93.05	-60.31	-53.33	-5.77	-1.21	-13.00	-47.31
127.00	-49.29	-40.53	-7.16	-1.60	-13.00	-36.29
153.19	-63.79	-54.87	-7.24	-1.68	-13.00	-50.79
281.23	-66.79	-62.68	-1.69	-2.42	-13.00	-53.79
355.92	-65.82	-61.89	-1.35	-2.58	-13.00	-52.82
1413.00	-64.33	-64.89	7.10	-6.54	-13.00	-51.33

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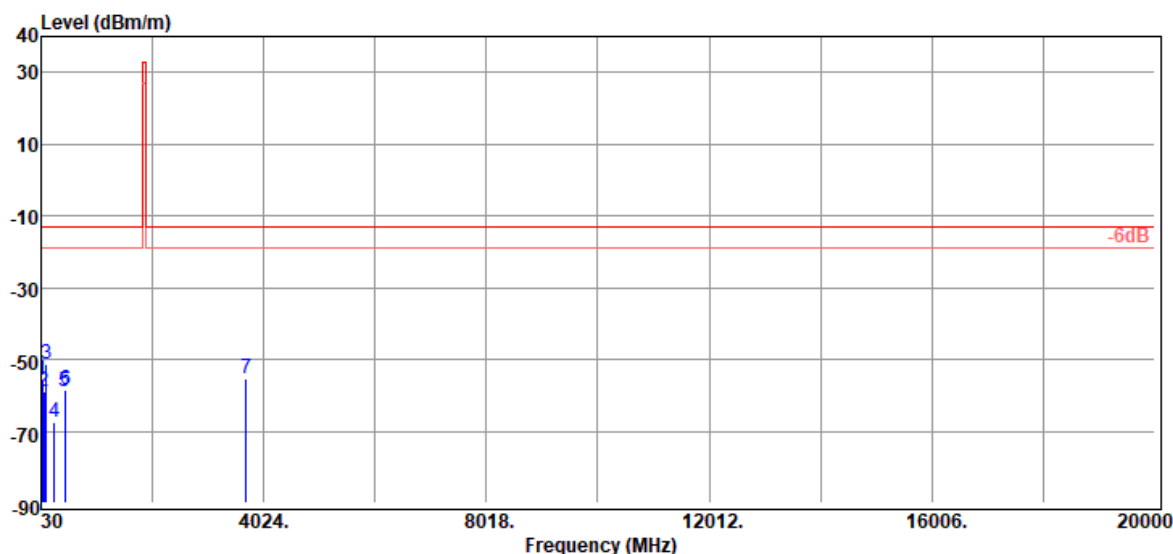
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Cat M1 Band 25

Report Number :E2/2019/B0010
Operation Mode :M1 B25 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
54.25	-55.80	-38.15	-16.73	-0.92	-13.00	-42.80
74.62	-58.76	-47.53	-10.16	-1.07	-13.00	-45.76
127.97	-51.19	-42.37	-7.20	-1.62	-13.00	-38.19
264.74	-67.65	-63.80	-1.58	-2.27	-13.00	-54.65
461.65	-59.14	-54.51	-1.28	-3.35	-13.00	-46.14
468.44	-58.46	-54.00	-1.30	-3.16	-13.00	-45.46
3701.40	-55.27	-56.25	12.30	-11.32	-13.00	-42.27

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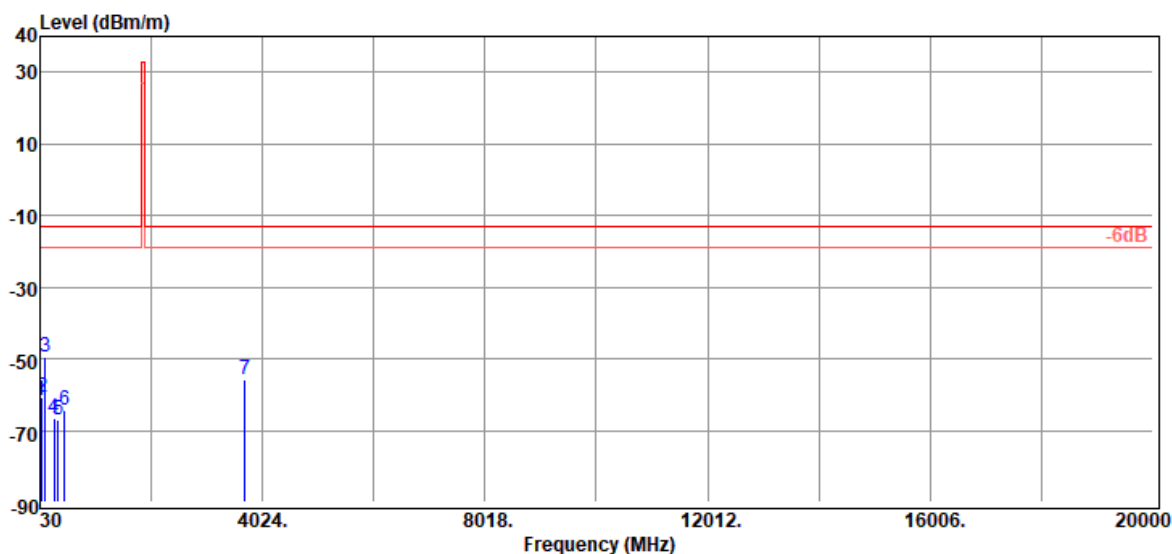
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Report Number :E2/2019/B0010
Operation Mode :M1 B25 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



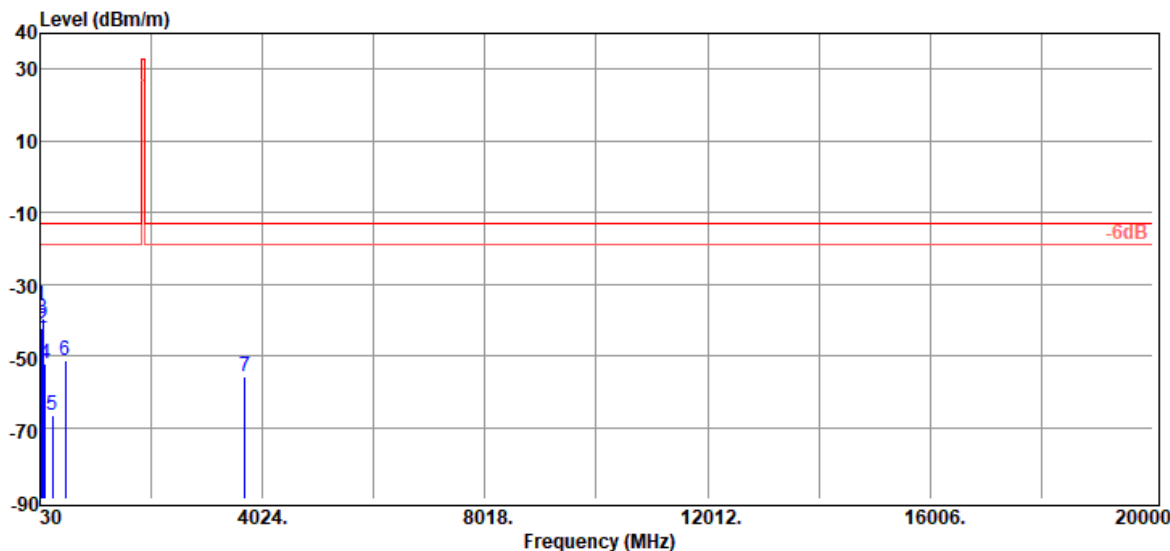
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-61.46	-40.44	-20.36	-0.66	-13.00	-48.46
68.80	-60.55	-47.10	-12.45	-1.00	-13.00	-47.55
125.06	-49.47	-40.81	-7.10	-1.56	-13.00	-36.47
279.29	-66.71	-62.62	-1.69	-2.40	-13.00	-53.71
358.83	-67.14	-63.17	-1.39	-2.58	-13.00	-54.14
470.38	-64.17	-59.76	-1.30	-3.11	-13.00	-51.17
3701.40	-55.79	-56.77	12.30	-11.32	-13.00	-42.79

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Report Number :E2/2019/B0010
Operation Mode :M1 B25 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
38.73	-35.96	-15.88	-19.25	-0.83	-13.00	-22.96
64.92	-42.54	-27.83	-13.71	-1.00	-13.00	-29.54
73.65	-39.42	-27.86	-10.50	-1.06	-13.00	-26.42
127.00	-52.08	-43.32	-7.16	-1.60	-13.00	-39.08
260.86	-66.62	-62.80	-1.55	-2.27	-13.00	-53.62
479.11	-51.47	-47.12	-1.24	-3.11	-13.00	-38.47
3701.40	-55.67	-56.65	12.30	-11.32	-13.00	-42.67

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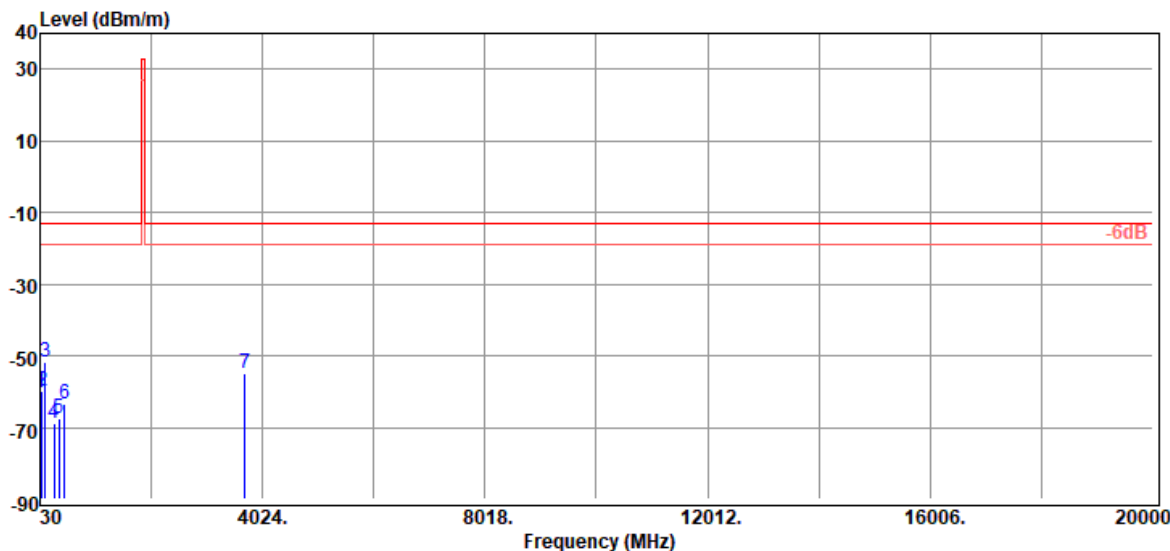
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Report Number :E2/2019/B0010
Operation Mode :M1 B25 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :1850.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-60.41	-43.00	-16.48	-0.93	-13.00	-47.41
69.77	-60.03	-46.92	-12.11	-1.00	-13.00	-47.03
127.00	-51.72	-42.96	-7.16	-1.60	-13.00	-38.72
280.26	-68.99	-64.88	-1.70	-2.41	-13.00	-55.99
366.59	-67.51	-63.22	-1.49	-2.80	-13.00	-54.51
466.50	-63.27	-58.77	-1.29	-3.21	-13.00	-50.27
3701.40	-55.00	-55.98	12.30	-11.32	-13.00	-42.00

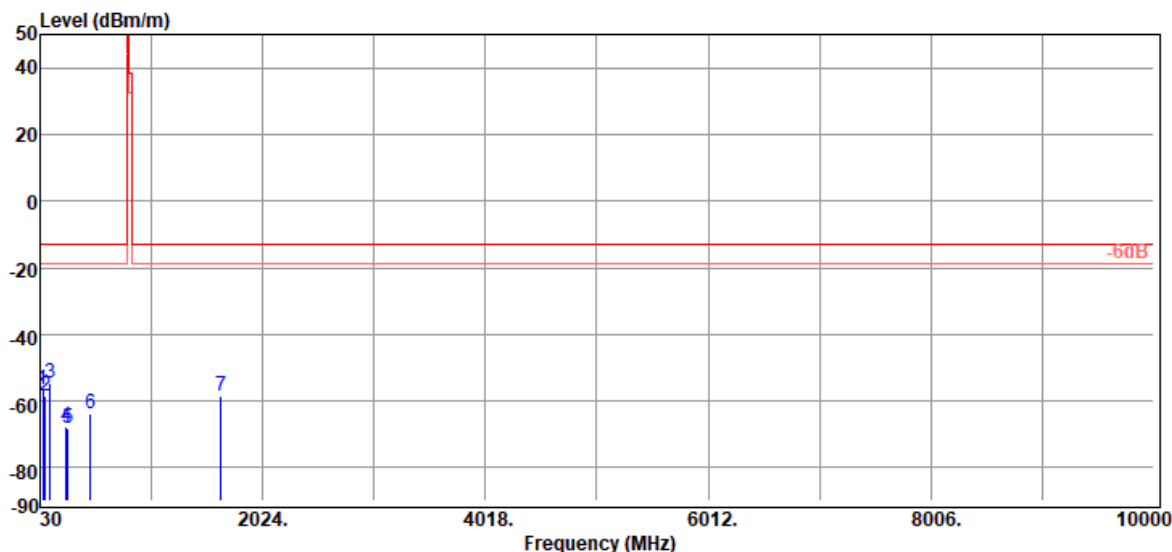
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Cat M1 Band 26

Report Number :E2/2019/B0010
Operation Mode :M1 B26 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-56.76	-39.11	-16.73	-0.92	-13.00	-43.76
74.62	-58.48	-47.25	-10.16	-1.07	-13.00	-45.48
123.12	-54.49	-45.93	-7.04	-1.52	-13.00	-41.49
261.83	-67.55	-63.73	-1.55	-2.27	-13.00	-54.55
278.32	-68.15	-64.08	-1.68	-2.39	-13.00	-55.15
479.11	-63.72	-59.37	-1.24	-3.11	-13.00	-50.72
1649.40	-58.33	-60.10	9.30	-7.53	-13.00	-45.33

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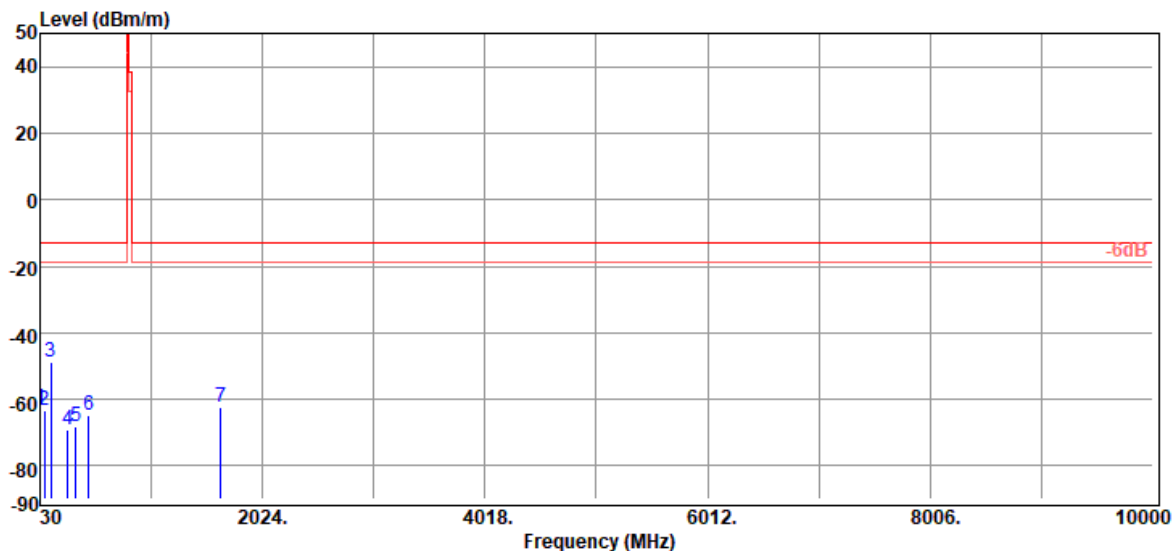
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Report Number :E2/2019/B0010
Operation Mode :M1 B26 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-62.69	-41.44	-20.62	-0.63	-13.00	-49.69
70.74	-63.58	-50.85	-11.72	-1.01	-13.00	-50.58
128.94	-48.78	-39.91	-7.23	-1.64	-13.00	-35.78
280.26	-69.05	-64.94	-1.70	-2.41	-13.00	-56.05
353.98	-68.35	-64.43	-1.34	-2.58	-13.00	-55.35
463.59	-64.69	-60.10	-1.29	-3.30	-13.00	-51.69
1649.40	-62.41	-64.18	9.30	-7.53	-13.00	-49.41

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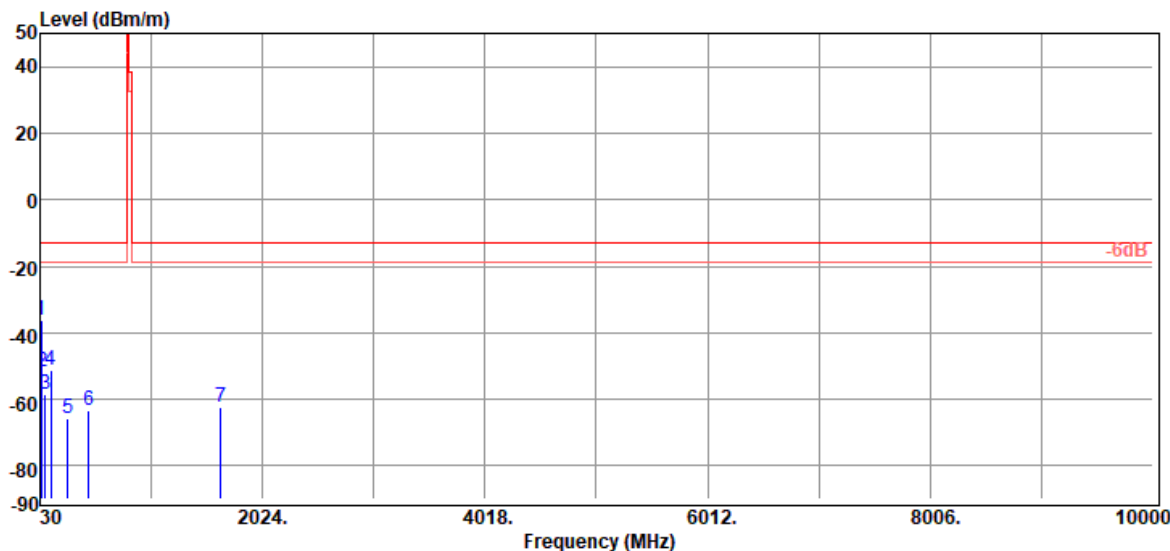
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Report Number :E2/2019/B0010
Operation Mode :M1 B26 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-36.42	-16.43	-19.14	-0.85	-13.00	-23.42
47.46	-51.78	-32.85	-18.07	-0.86	-13.00	-38.78
73.65	-58.49	-46.93	-10.50	-1.06	-13.00	-45.49
127.00	-51.05	-42.29	-7.16	-1.60	-13.00	-38.05
280.26	-65.56	-61.45	-1.70	-2.41	-13.00	-52.56
469.41	-63.28	-58.85	-1.30	-3.13	-13.00	-50.28
1649.40	-62.52	-64.29	9.30	-7.53	-13.00	-49.52

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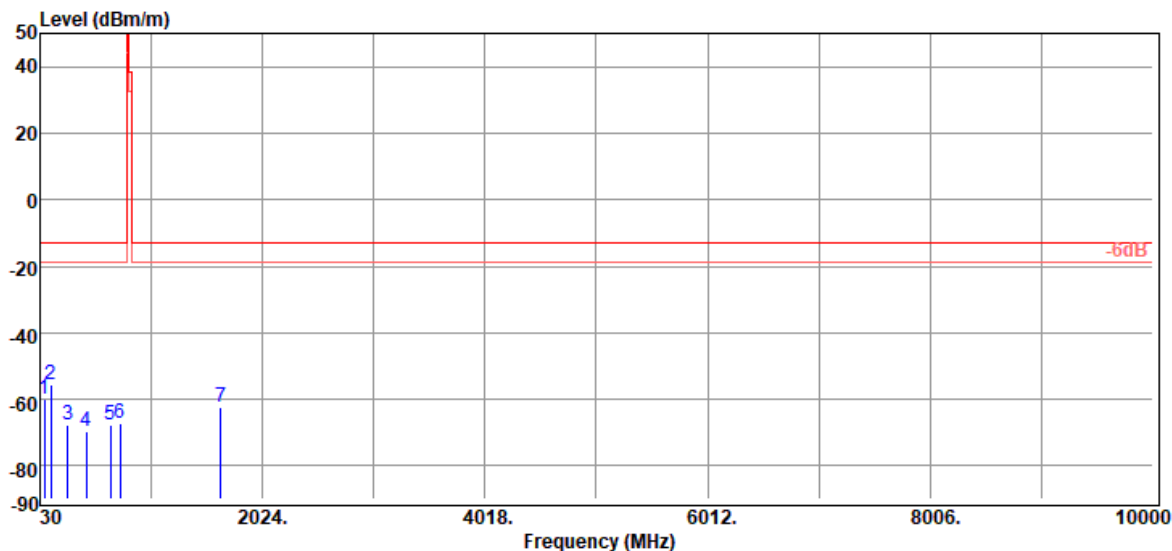
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Report Number :E2/2019/B0010
Operation Mode :M1 B26 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plane
Test Channel :824.7 MHz

Test Date :2019-12-11
Temp./Humi. :24.1/49
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-60.14	-46.69	-12.45	-1.00	-13.00	-47.14
126.03	-55.74	-47.03	-7.13	-1.58	-13.00	-42.74
278.32	-67.73	-63.66	-1.68	-2.39	-13.00	-54.73
448.07	-69.76	-65.40	-1.44	-2.92	-13.00	-56.76
660.50	-67.88	-62.84	-1.24	-3.80	-13.00	-54.88
749.74	-67.41	-61.58	-1.64	-4.19	-13.00	-54.41
1649.40	-62.22	-63.99	9.30	-7.53	-13.00	-49.22

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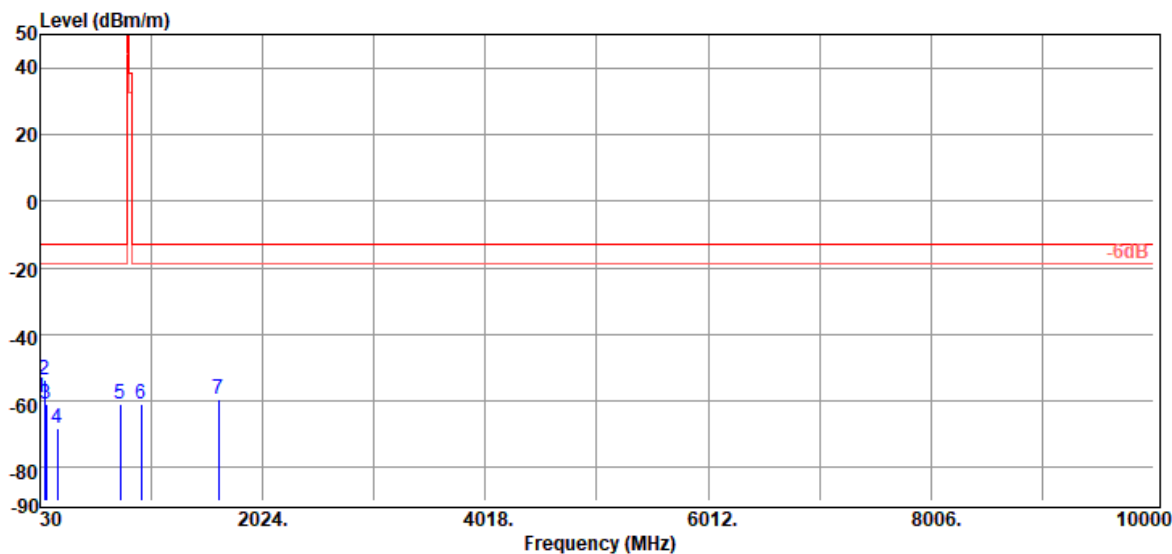
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Cat M1 Band 26 Part 90

Report Number :E2/2019/B0010
Operation Mode :M1 Part 90 B26 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :814.7 MHz

Test Date :2019-12-26
Temp./Humi. :21.2/70
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-58.81	-38.31	-19.77	-0.73	-13.00	-45.81
72.68	-53.53	-41.55	-10.94	-1.04	-13.00	-40.53
84.32	-61.01	-52.66	-7.19	-1.16	-13.00	-48.01
184.23	-68.43	-62.93	-3.71	-1.79	-13.00	-55.43
747.80	-61.14	-55.33	-1.62	-4.19	-13.00	-48.14
936.95	-60.98	-54.45	-1.70	-4.83	-13.00	-47.98
1629.40	-59.71	-61.53	9.22	-7.40	-13.00	-46.71

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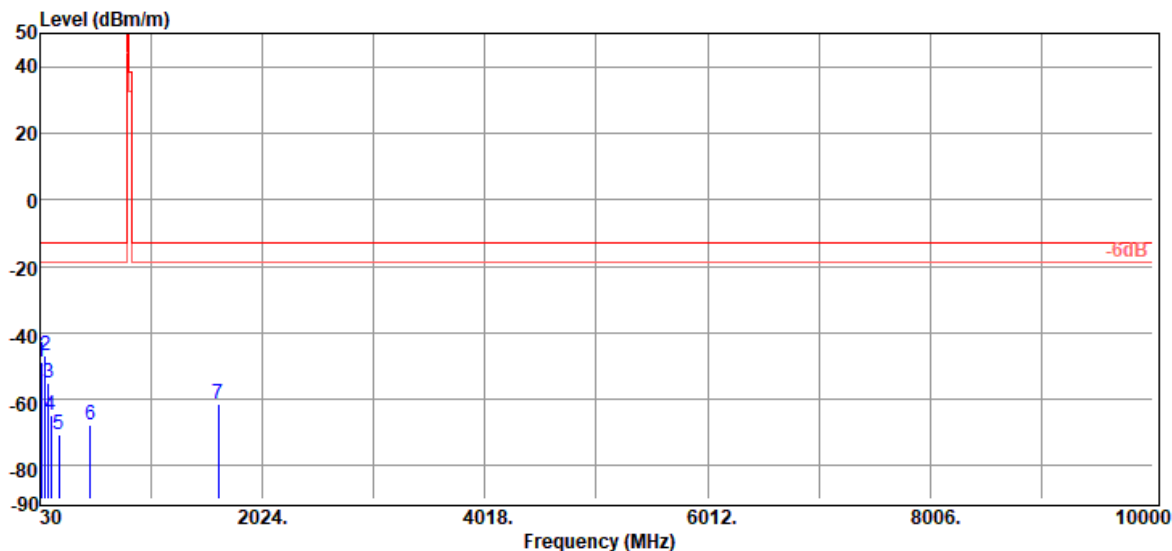
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Report Number :E2/2019/B0010
Operation Mode :M1 Part 90 B26 QPSK
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :814.7 MHz

Test Date :2019-12-26
Temp./Humi. :21.2/70
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-48.83	-28.75	-19.25	-0.83	-13.00	-35.83
74.62	-47.07	-35.84	-10.16	-1.07	-13.00	-34.07
106.63	-54.98	-46.66	-6.91	-1.41	-13.00	-41.98
127.97	-64.76	-55.94	-7.20	-1.62	-13.00	-51.76
201.69	-70.75	-66.62	-2.05	-2.08	-13.00	-57.75
482.99	-67.77	-63.38	-1.17	-3.22	-13.00	-54.77
1629.24	-61.48	-63.30	9.22	-7.40	-13.00	-48.48

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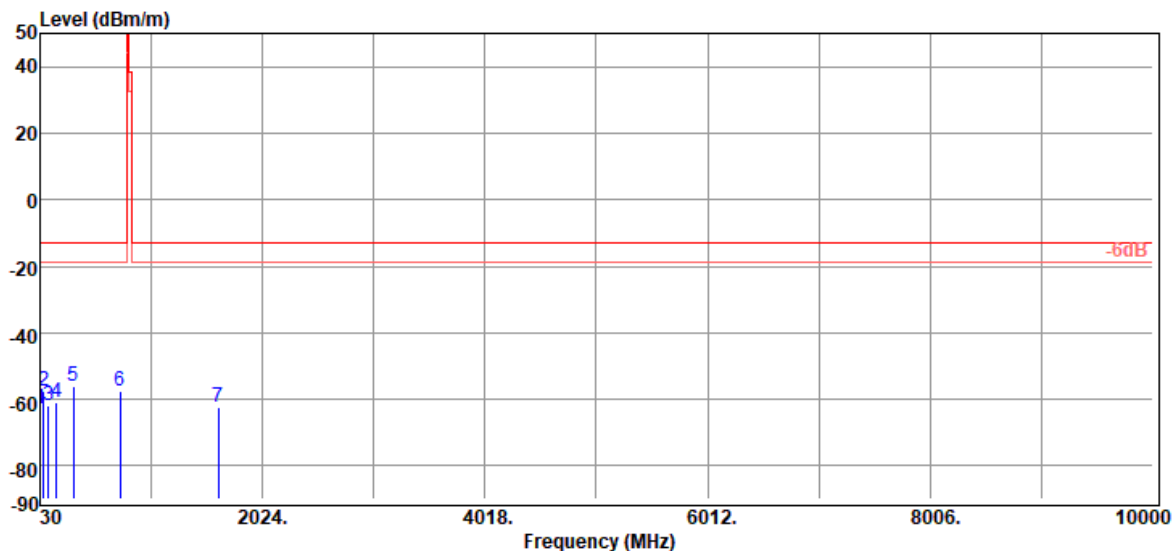
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Report Number :E2/2019/B0010
Operation Mode :M1 Part 90 B26 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :814.7 MHz

Test Date :2019-12-26
Temp./Humi. :21.2/70
Antenna Pol. :VERTICAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-62.98	-42.21	-20.09	-0.68	-13.00	-49.98
65.89	-57.32	-43.02	-13.30	-1.00	-13.00	-44.32
106.63	-62.12	-53.80	-6.91	-1.41	-13.00	-49.12
180.35	-61.14	-55.05	-4.35	-1.74	-13.00	-48.14
330.70	-56.10	-51.87	-1.58	-2.65	-13.00	-43.10
746.83	-57.71	-51.91	-1.61	-4.19	-13.00	-44.71
1629.40	-62.19	-64.01	9.22	-7.40	-13.00	-49.19

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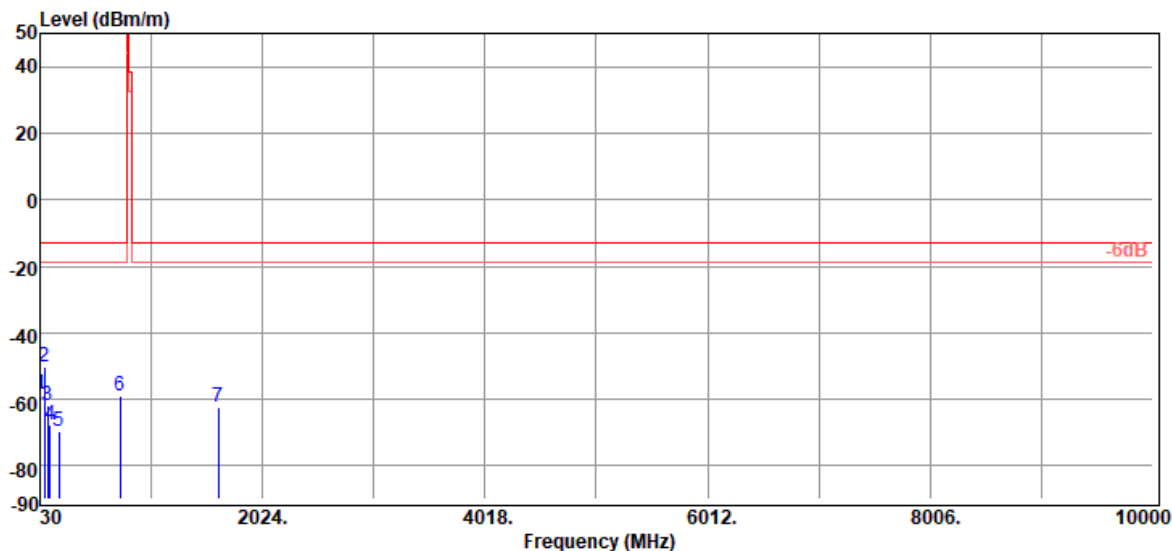
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Report Number :E2/2019/B0010
Operation Mode :M1 Part 90 B26 16QAM
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Channel :814.7 MHz

Test Date :2019-12-26
Temp./Humi. :21.2/70
Antenna Pol. :HORIZONTAL
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-58.45	-38.05	-19.64	-0.76	-13.00	-45.45
70.74	-50.13	-37.40	-11.72	-1.01	-13.00	-37.13
99.84	-61.90	-54.35	-6.22	-1.33	-13.00	-48.90
122.15	-67.51	-59.00	-7.01	-1.50	-13.00	-54.51
202.66	-69.53	-65.45	-2.00	-2.08	-13.00	-56.53
745.86	-59.17	-53.37	-1.61	-4.19	-13.00	-46.17
1629.40	-62.31	-64.13	9.22	-7.40	-13.00	-49.31

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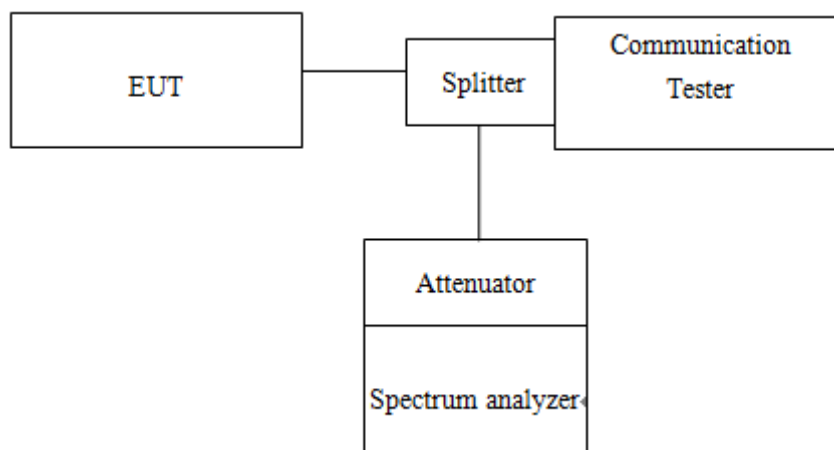
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10 PEAK TO AVERAGE RATIO

10.1 Standard Applicable

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

10.2 Test SET-UP



10.3 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.

10.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/09/2019	01/09/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF220	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF229	11/20/2019	11/19/2020

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10.5 Measurement Result

10.5.1 Cat M1

M1 BAND 2				M1 BAND 4				M1 BAND 5			
Channel bandwidth: 1.4MHz				Channel bandwidth: 1.4MHz				Channel bandwidth: 1.4MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit			16QAM	Limit
1850.7	18607	5.92	13	1710.7	19957	6.13	13	824.7	20407	5.98	13

M1 BAND 13				M1 BAND 14				M1 BAND 17			
Channel bandwidth: 5MHz				Channel bandwidth: 5MHz				Channel bandwidth: 5MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit			16QAM	Limit
779.5	23205	5.32	13	790.5	23305	4.93	13	706.5	23755	5.57	13
M1 BAND 25				M1 BAND 26				M1 BAND 26 for part 90S			
Channel bandwidth: 1.4MHz				Channel bandwidth: 1.4MHz				Channel bandwidth: 1.4MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit			16QAM	Limit
1850.7	26047	6.09	13	814.7	26697	5.50	13	814.7	26697	10.49	13

Please refer to next page for test plots.

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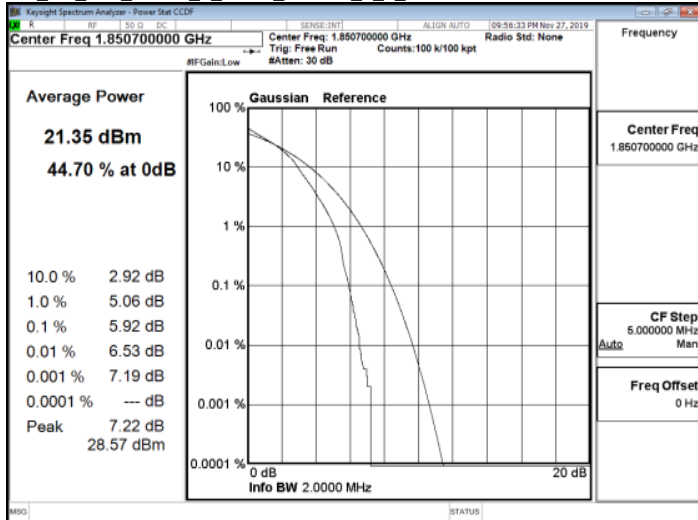
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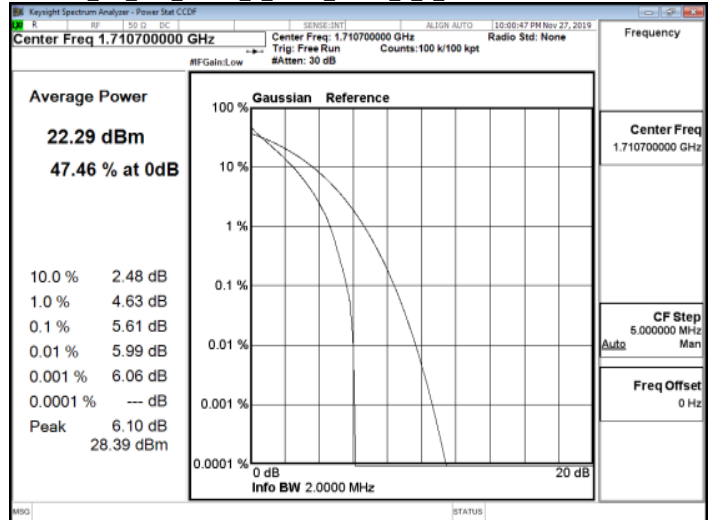
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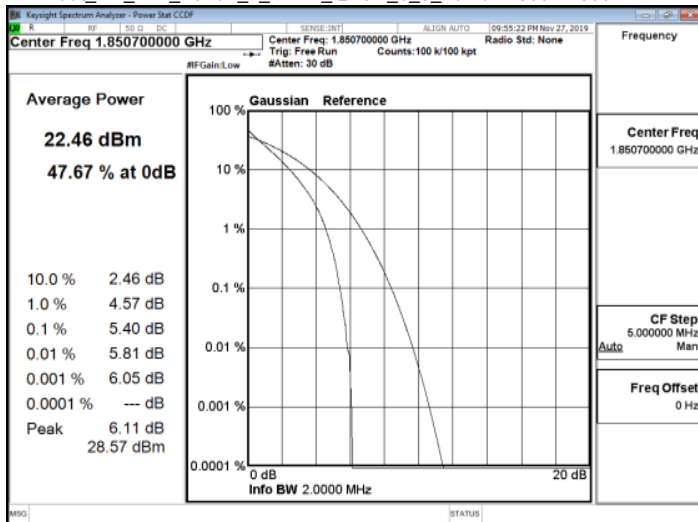
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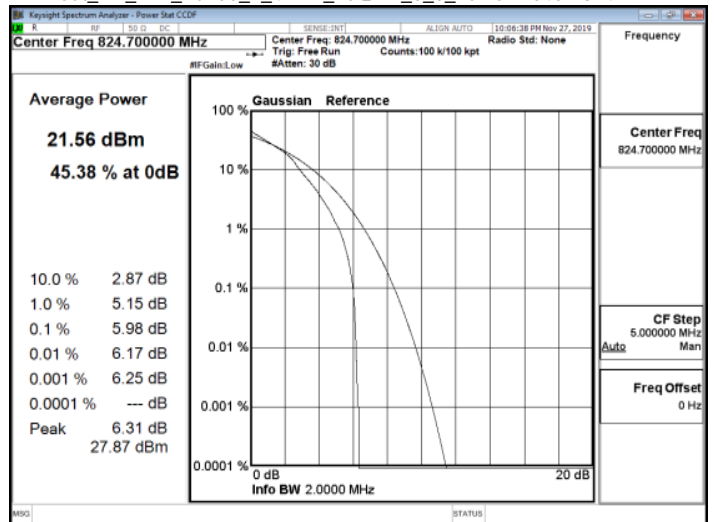
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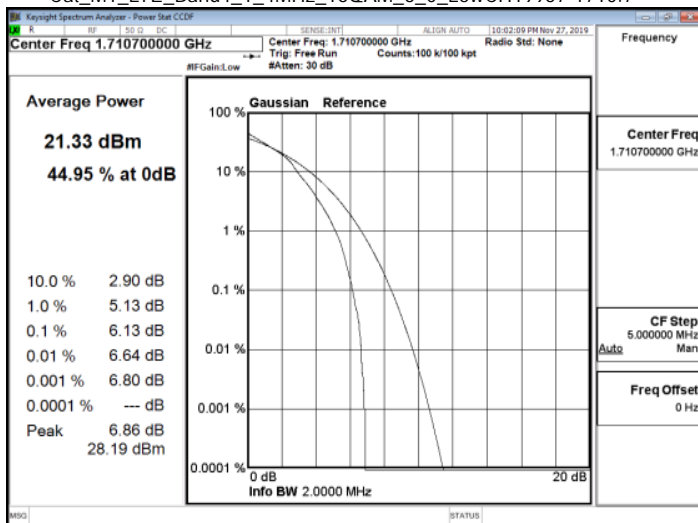
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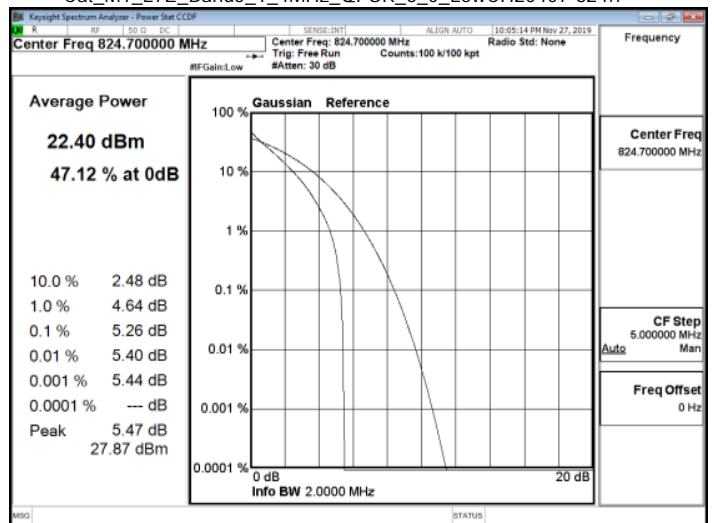
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Cat_M1_LTE_Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

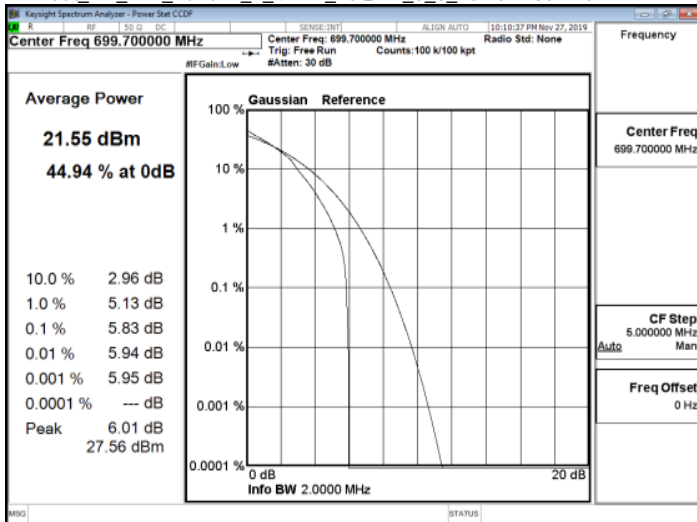


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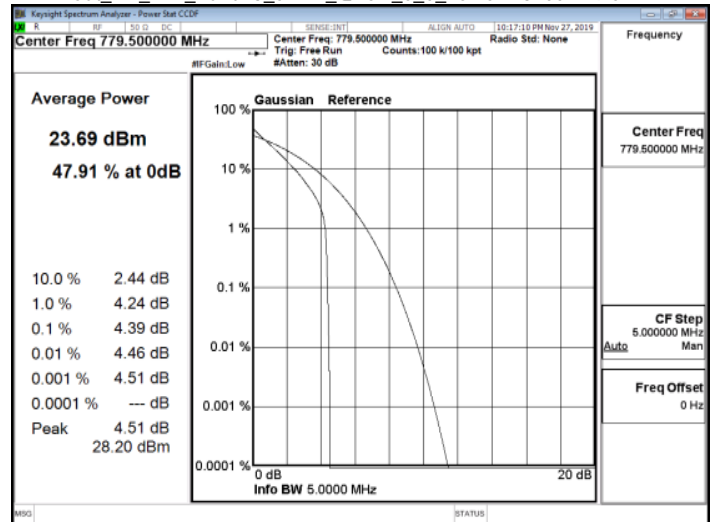
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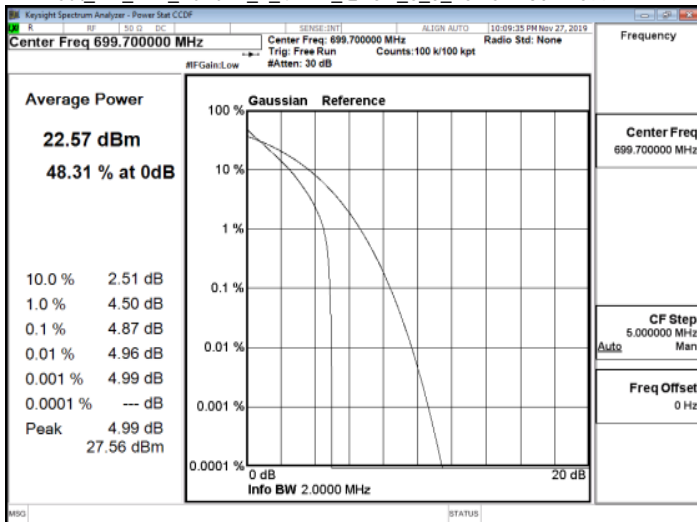
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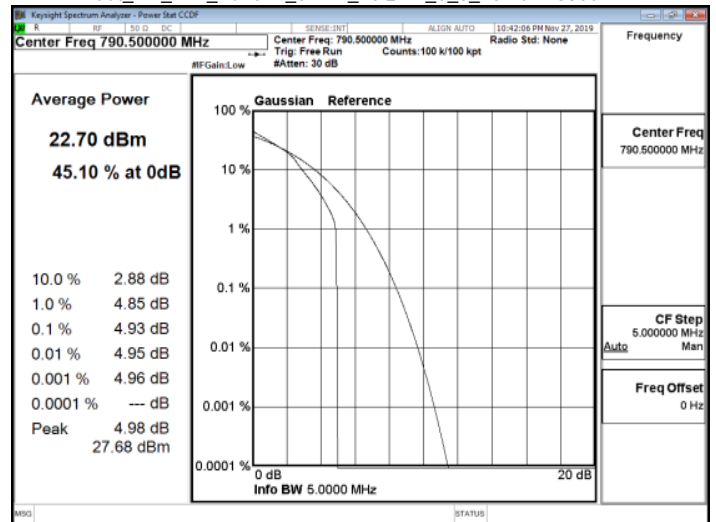
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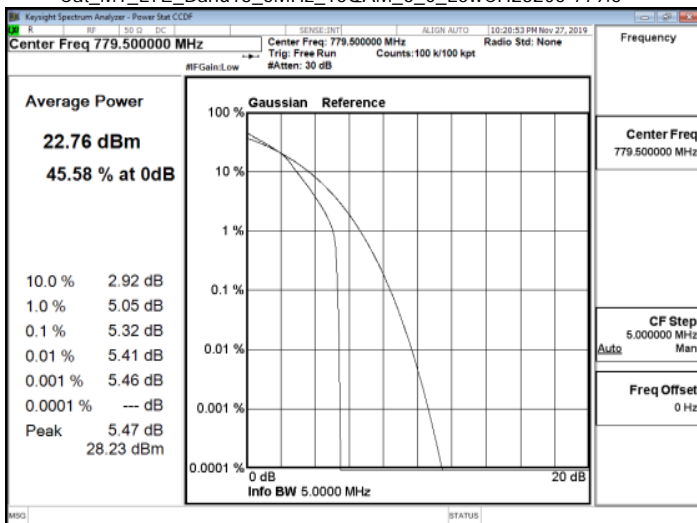
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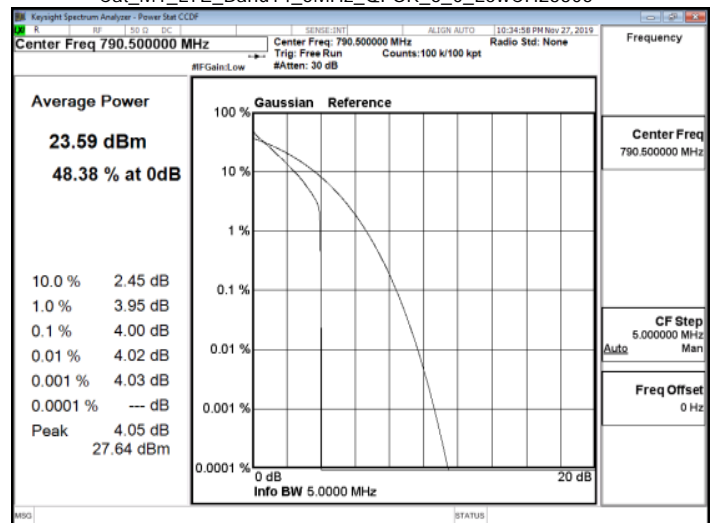
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Cat_M1_LTE_Band13_5MHz_16QAM_6_0_LowCH23205-779.5



Cat_M1_LTE_Band14_5MHz_QPSK_6_0_LowCH23305

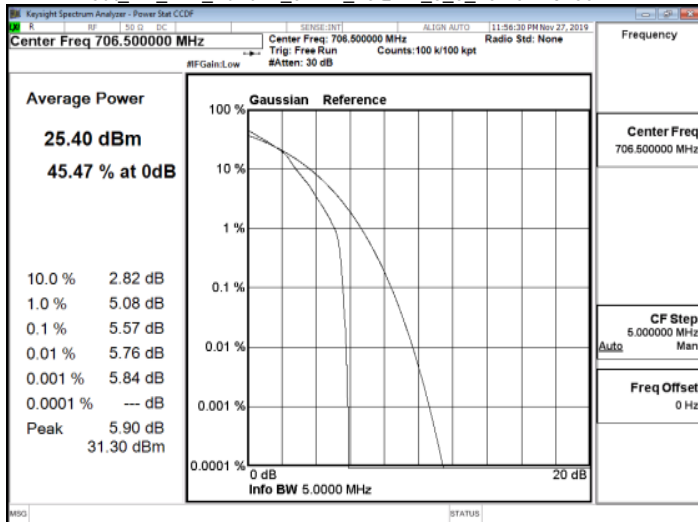


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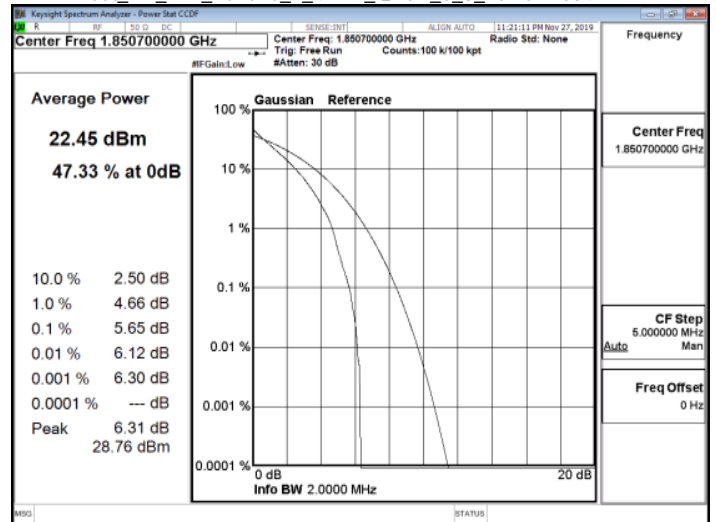
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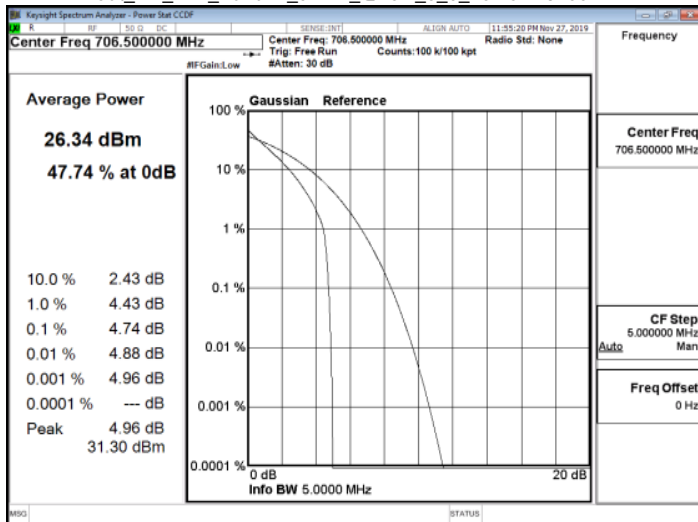
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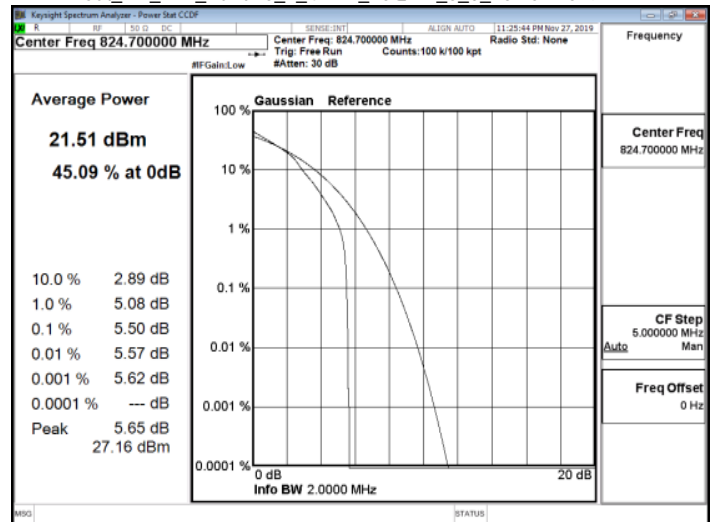
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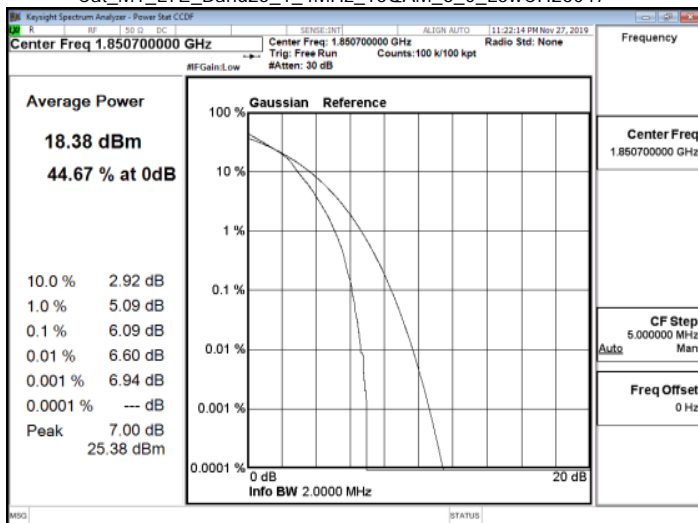
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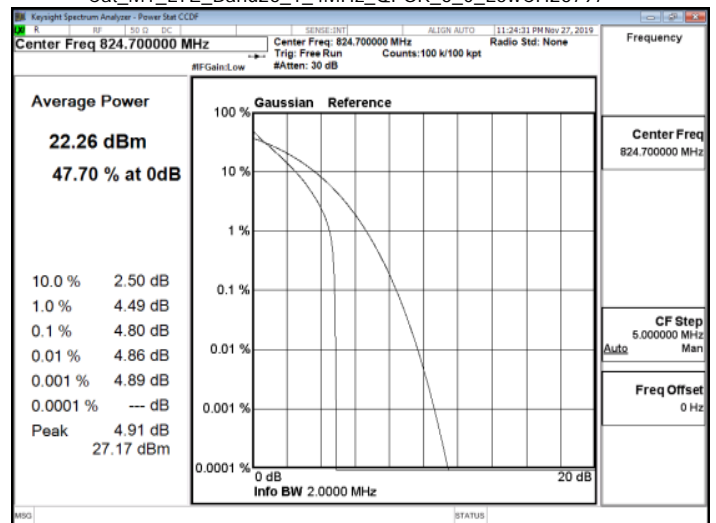
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Cat_M1_LTE_Band25_1_4MHz_16QAM_6_0_LowCH26047



Cat_M1_LTE_Band26_1_4MHz_QPSK_6_0_LowCH26797

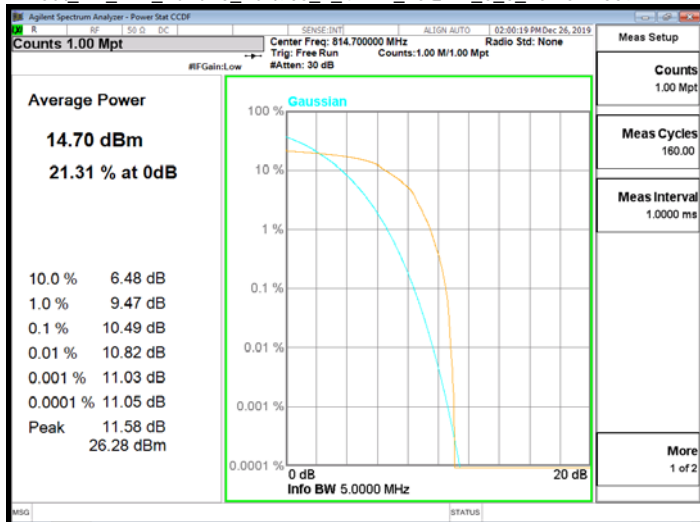


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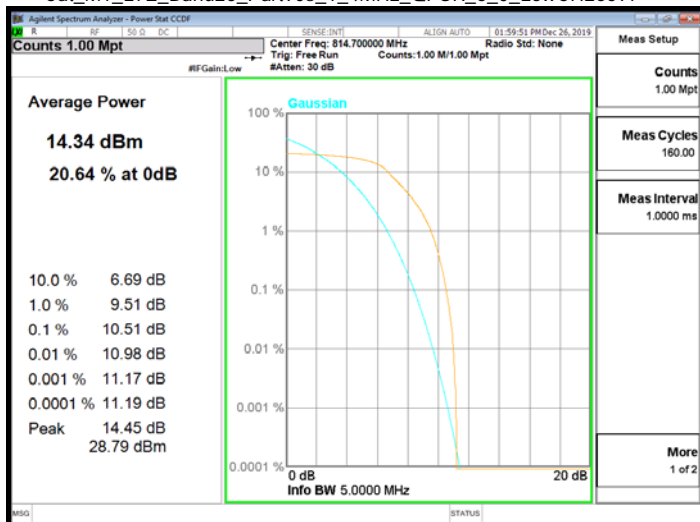
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Cat_M1_LTE_Band26_Part90s_1_4MHz_16QAM_6_0_LowCH26697



Cat_M1_LTE_Band26_Part90s_1_4MHz_QPSK_6_0_LowCH26697



~ End of Report ~

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