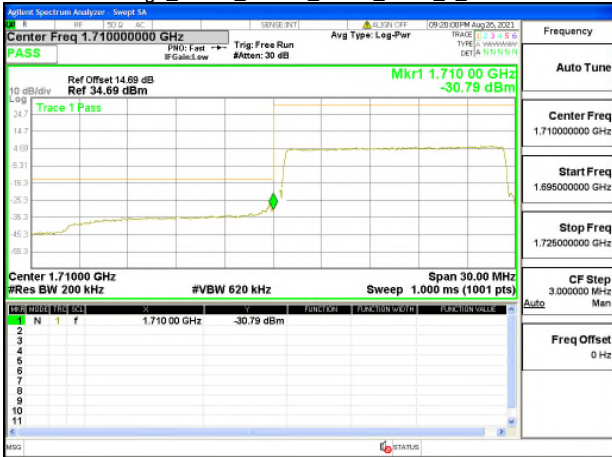
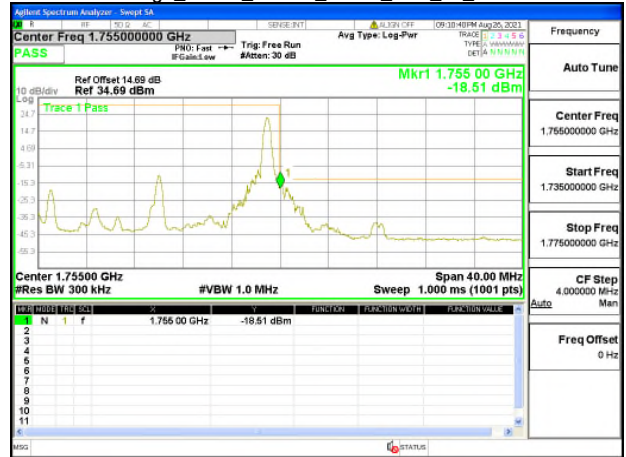


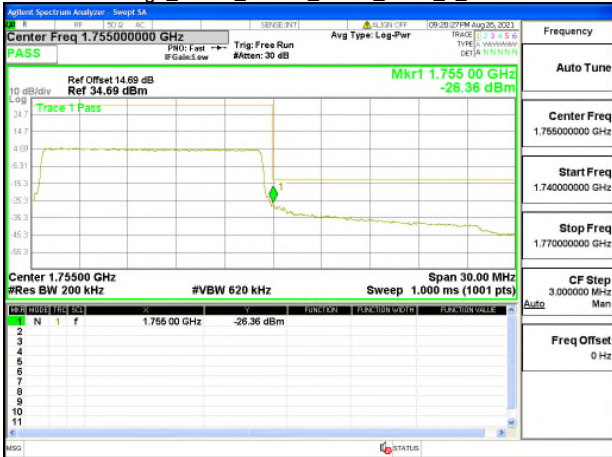
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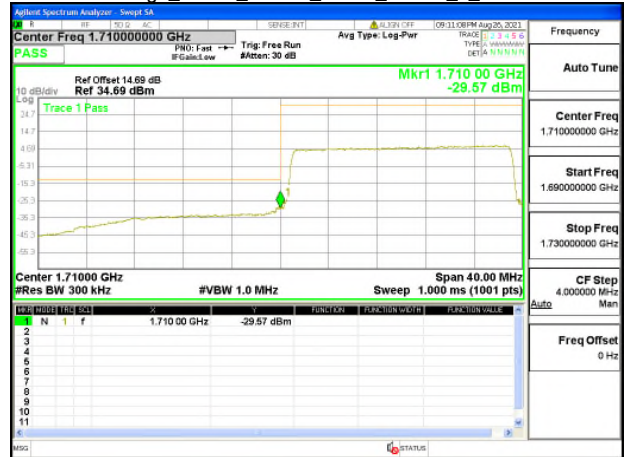
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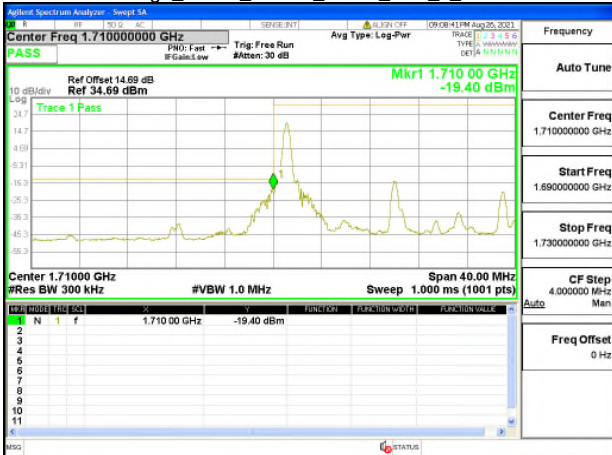
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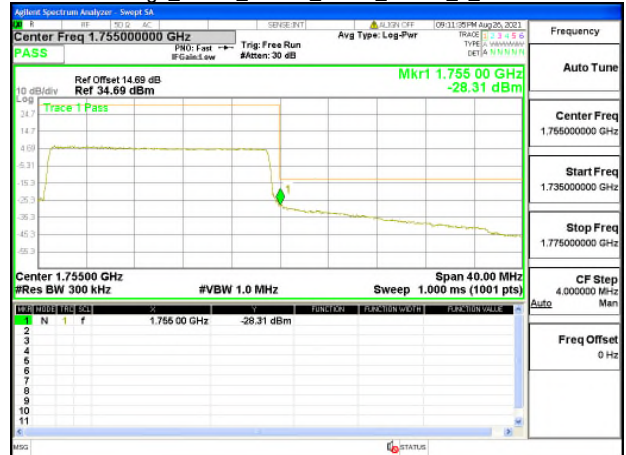
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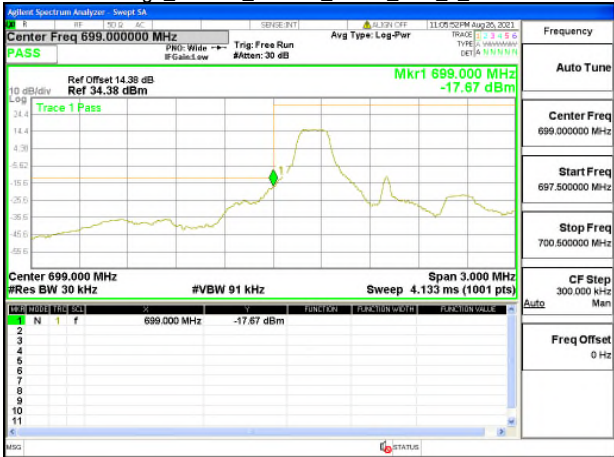
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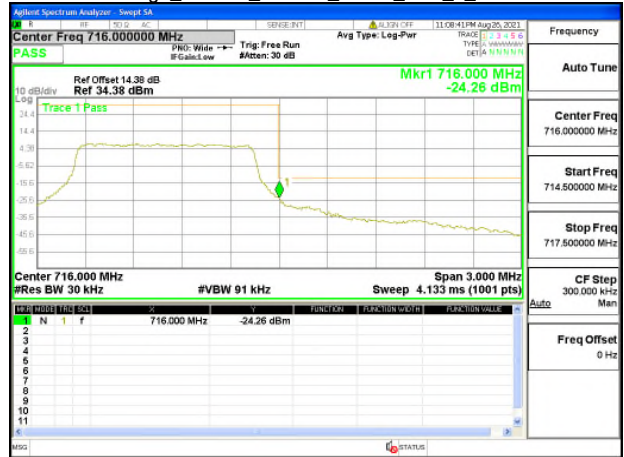
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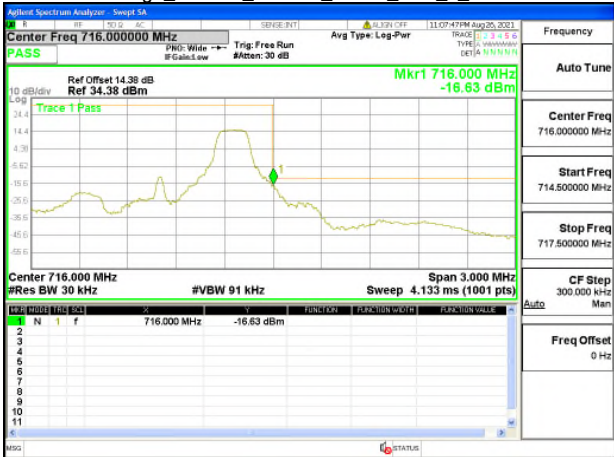
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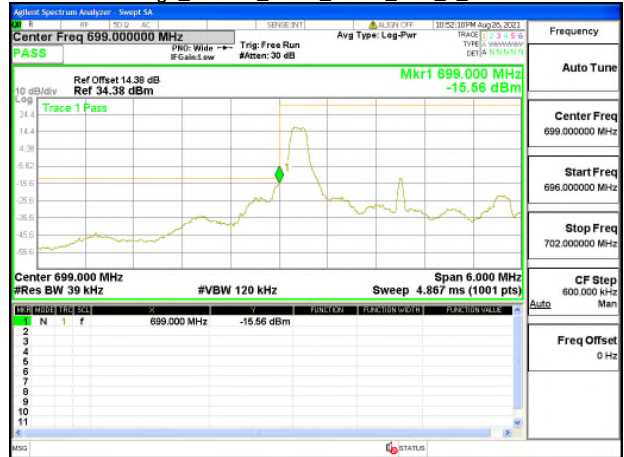
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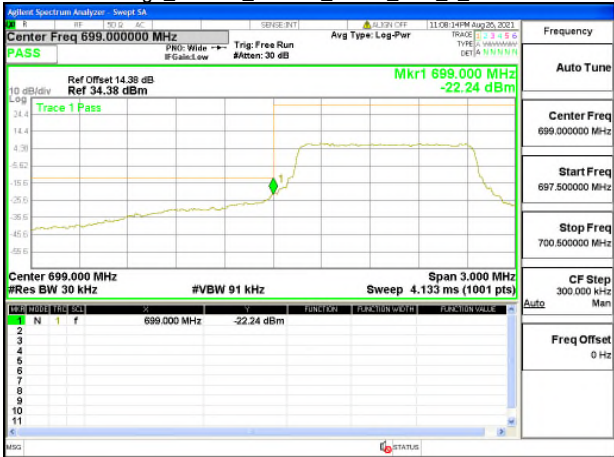
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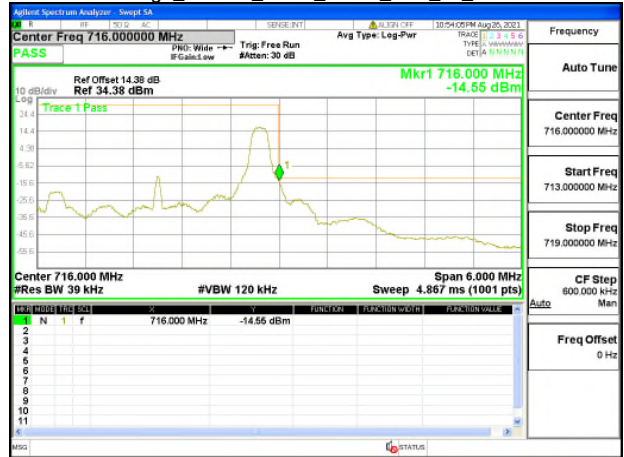
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Band Edge_Band12_1.4MHz_QPSK_RB6_0_CH23017



Band Edge_Band12_3MHz_QPSK_RB1_14_CH23165

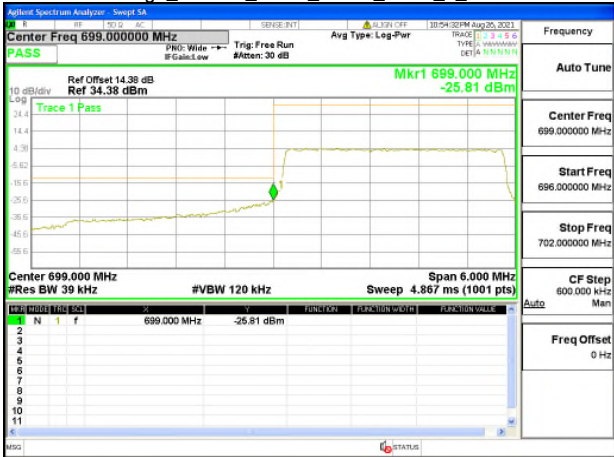


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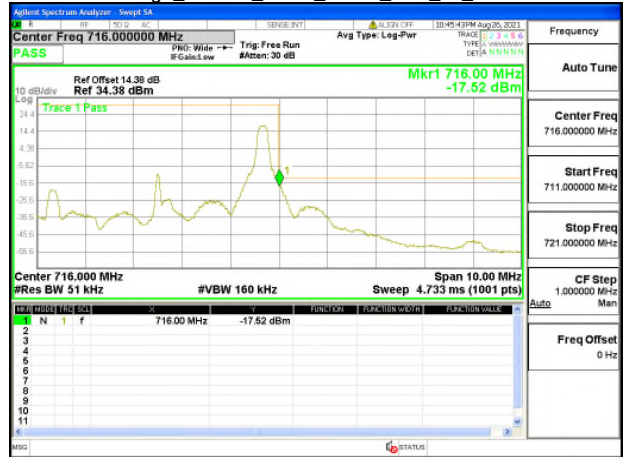
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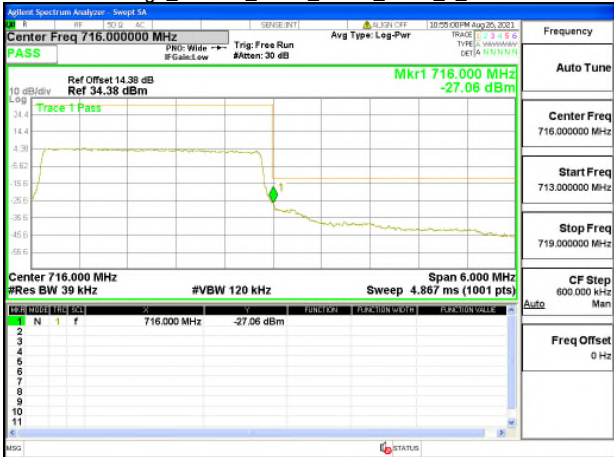
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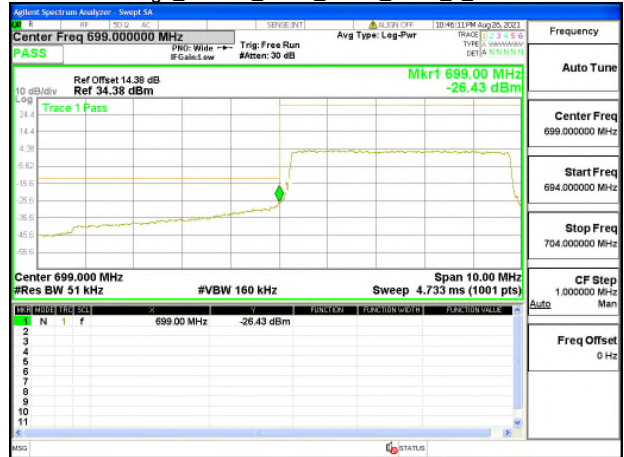
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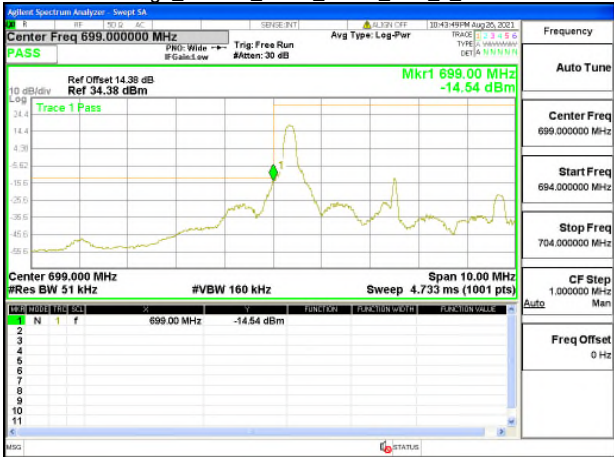
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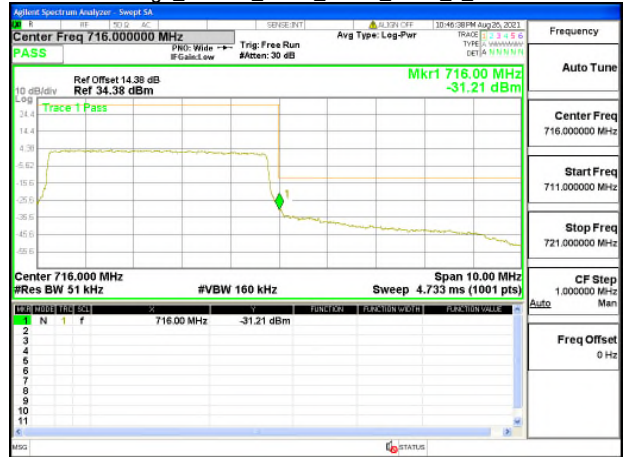
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Band Edge_Band12_5MHz_QPSK_RB1_0_CH23035



Band Edge_Band12_5MHz_QPSK_RB25_0_CH23155

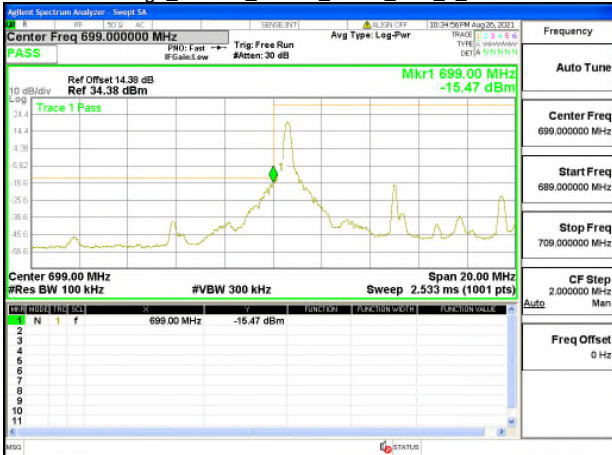


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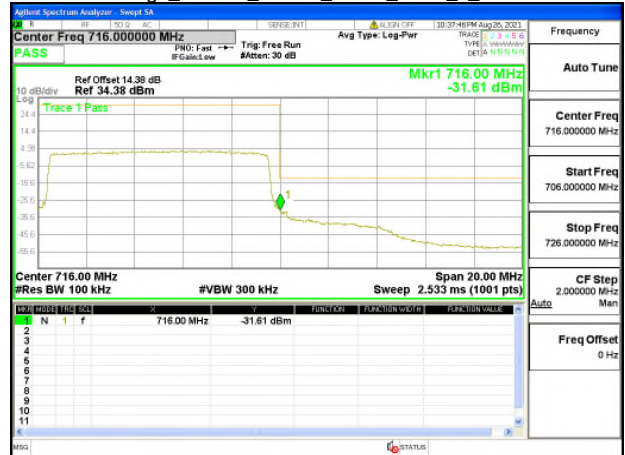
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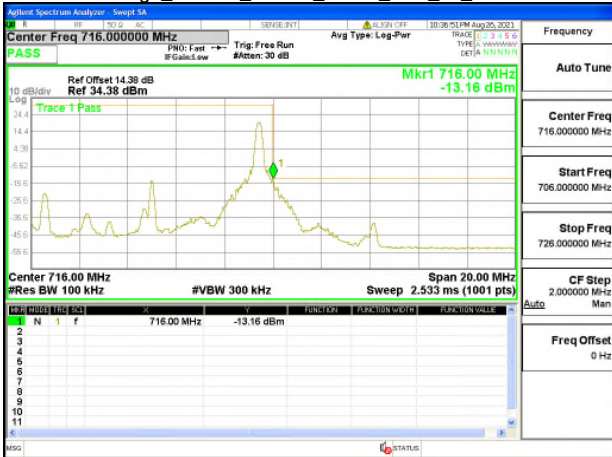
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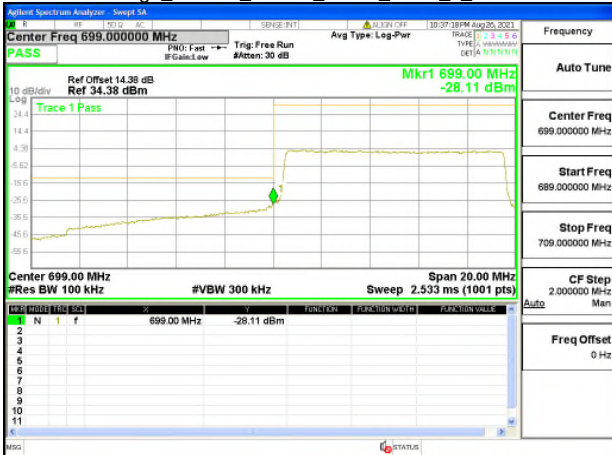
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Band Edge_Band12_10MHz_QPSK_RB1_49_CH23130



Band Edge_Band12_10MHz_QPSK_RB50_0_CH23060

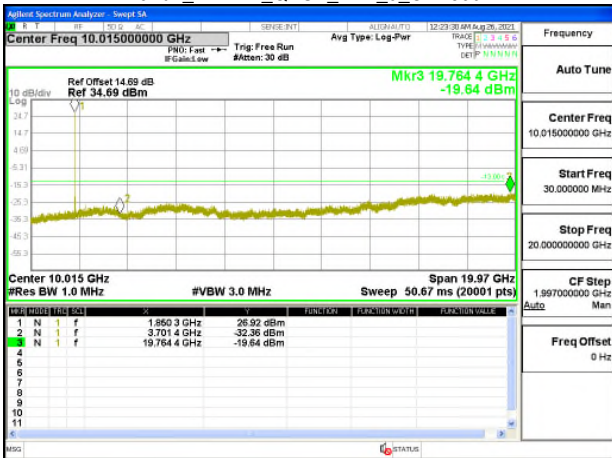


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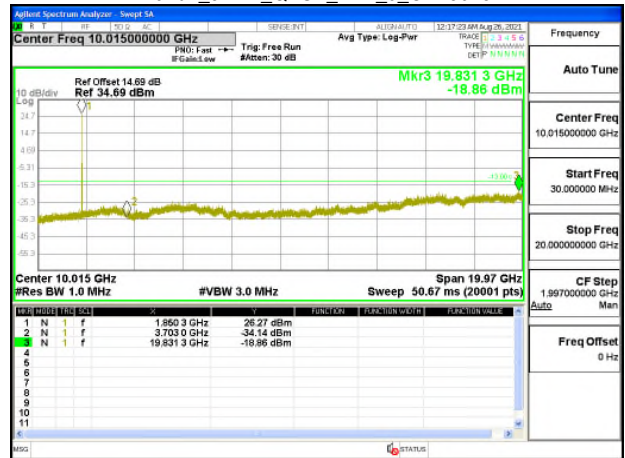
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8.6 Spurious Emission Measurement Result:

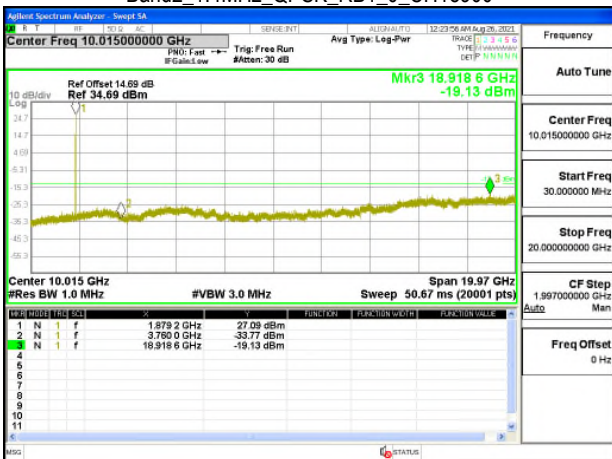
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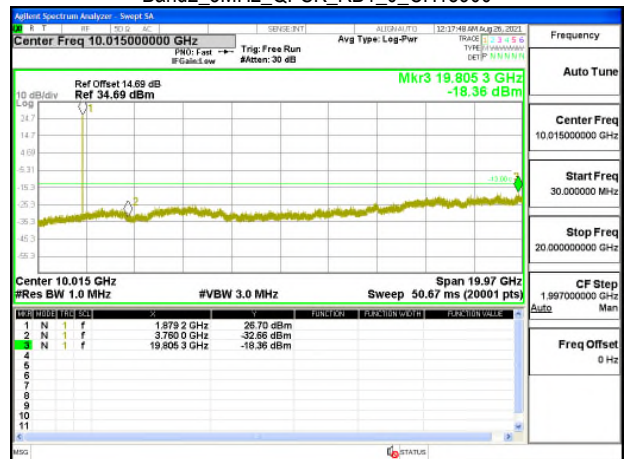
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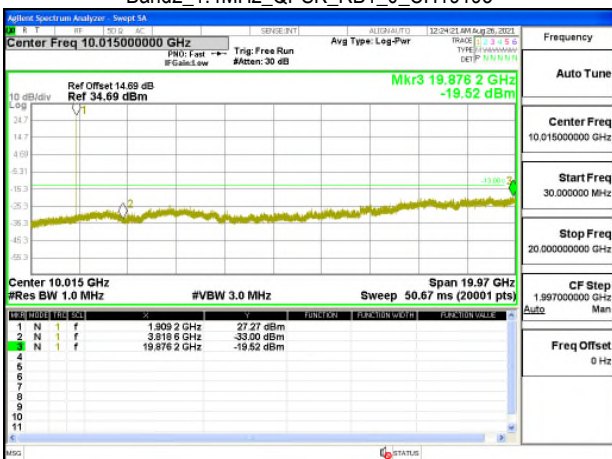
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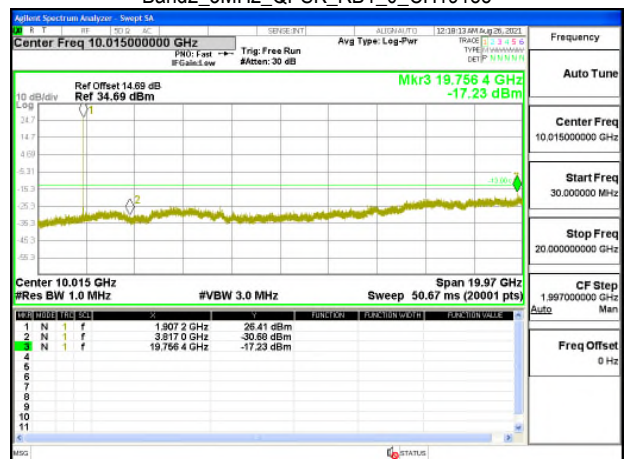
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Band2_1.4MHz_QPSK_RB1_0_CH19193



Band2_3MHz_QPSK_RB1_0_CH19185

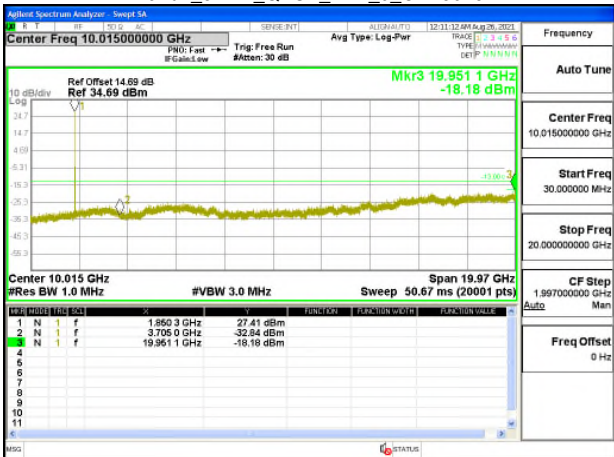


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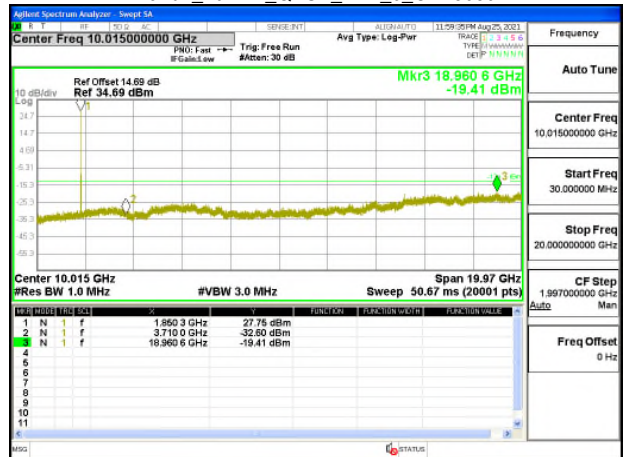
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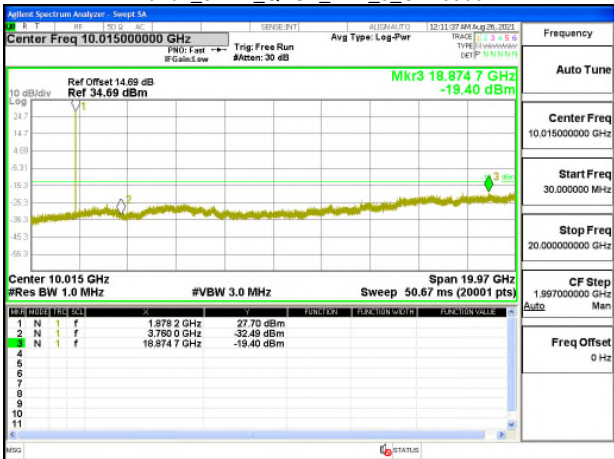
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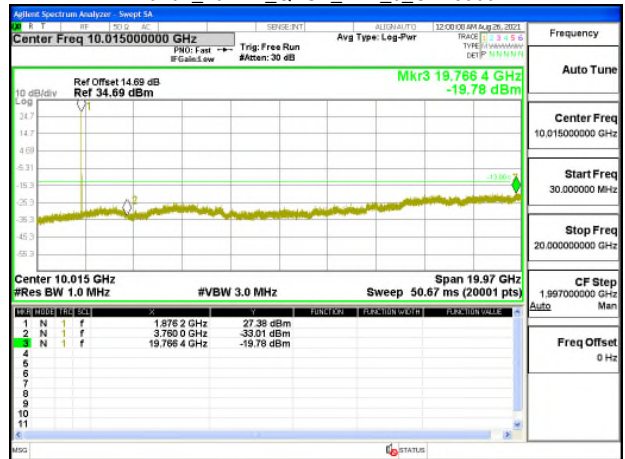
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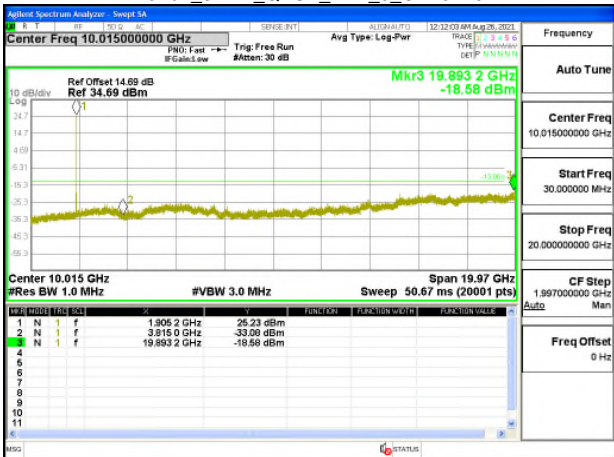
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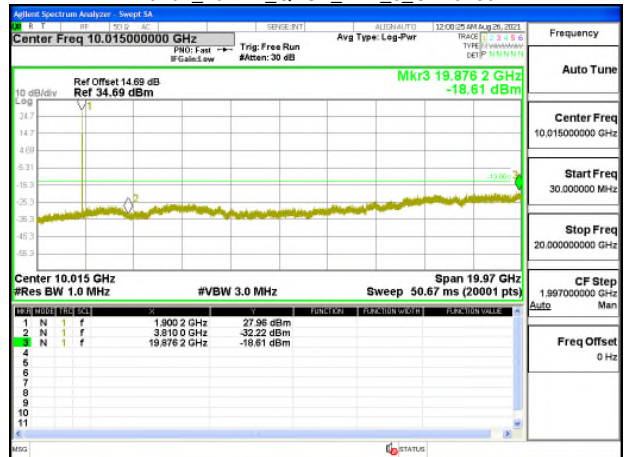
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Band2_10MHz_QPSK_RB1_0_CH19150

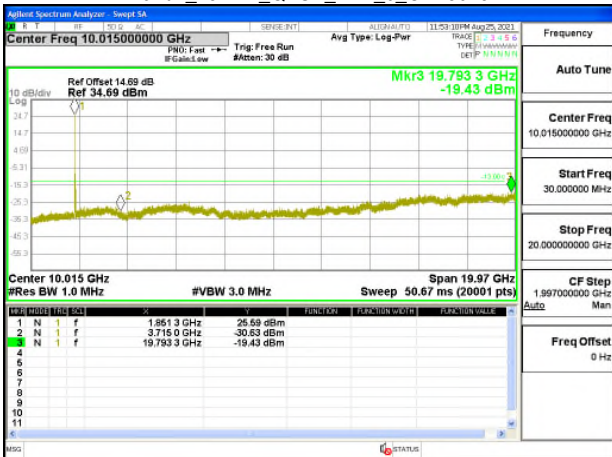


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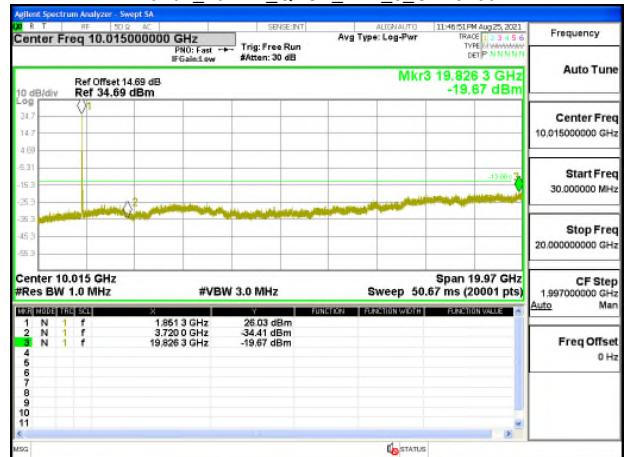
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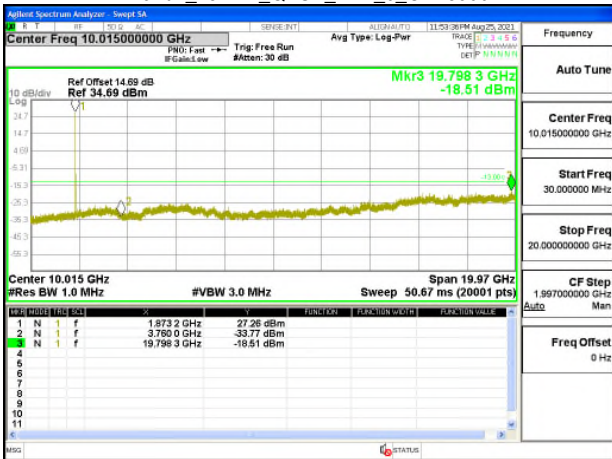
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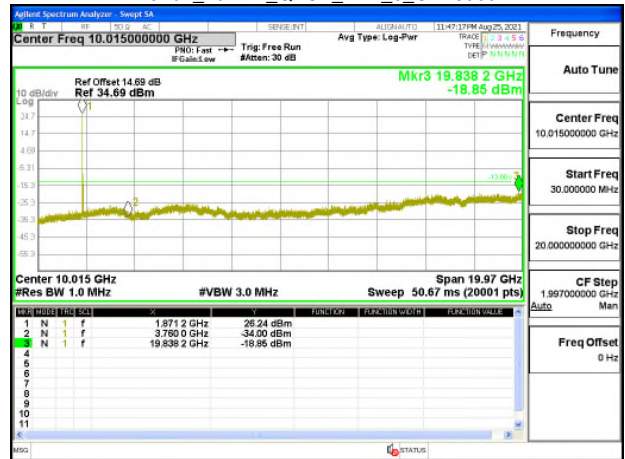
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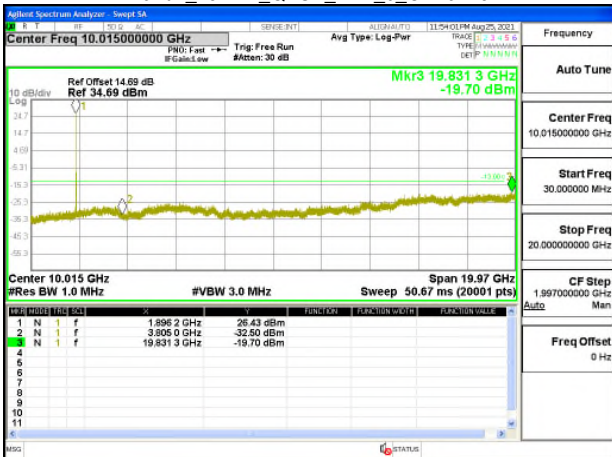
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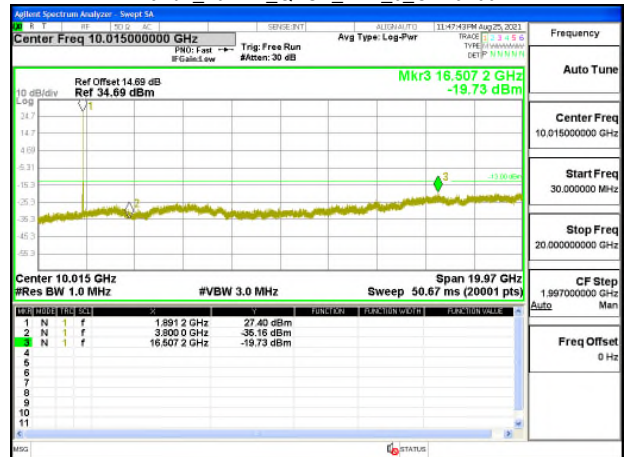
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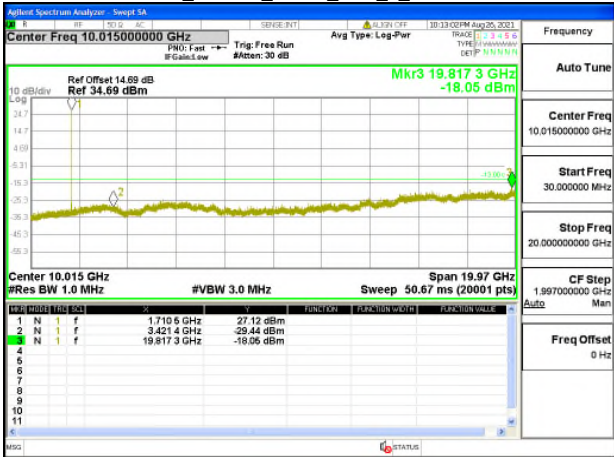


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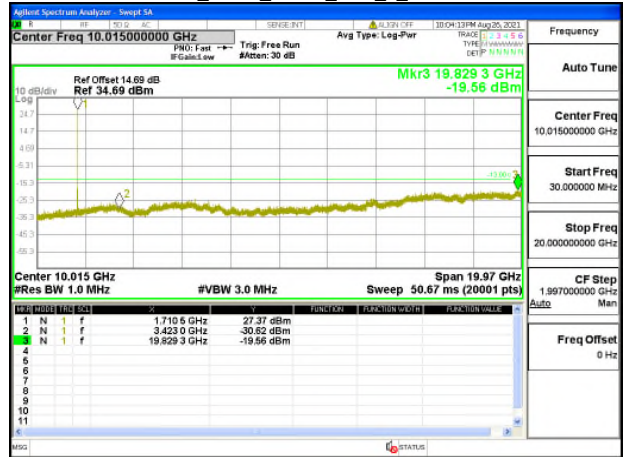
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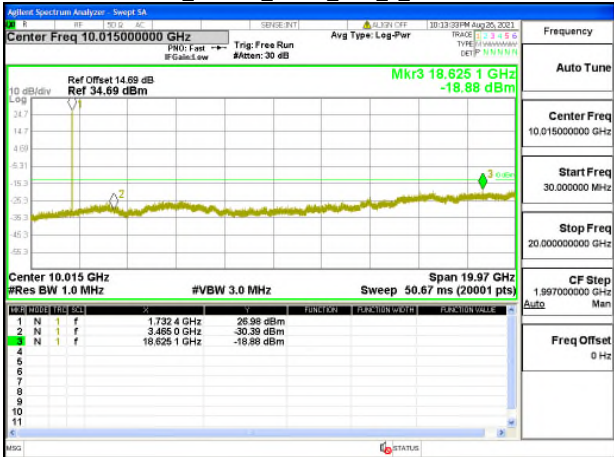
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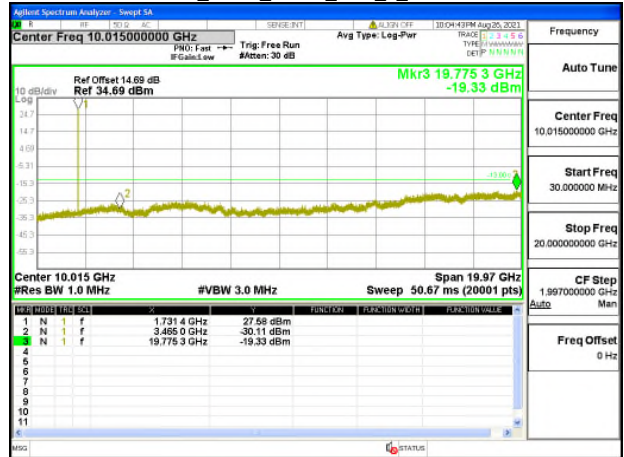
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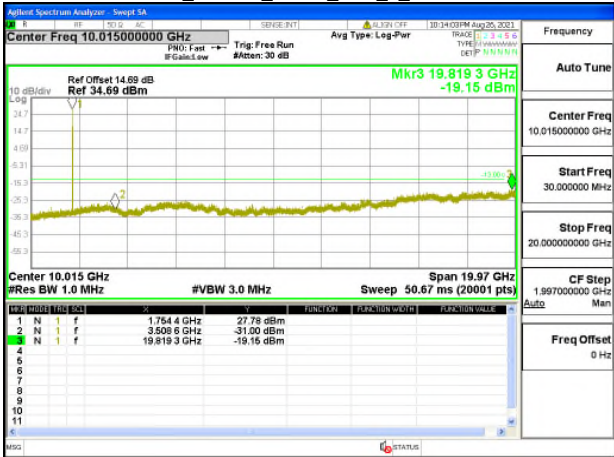
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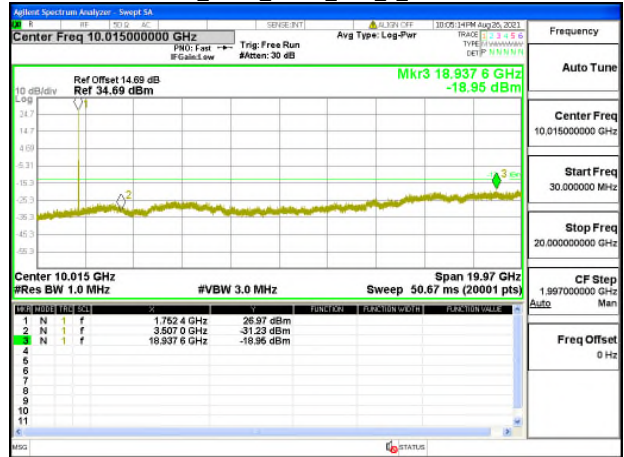
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Band4_1.4MHz_QPSK_RB1_0_CH20393



Band4_3MHz_QPSK_RB1_0_CH20385

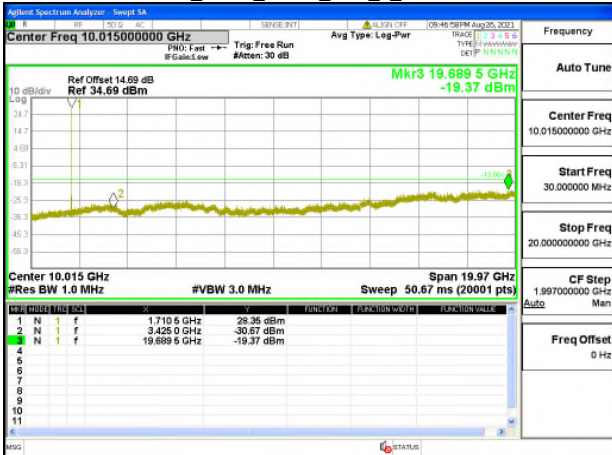


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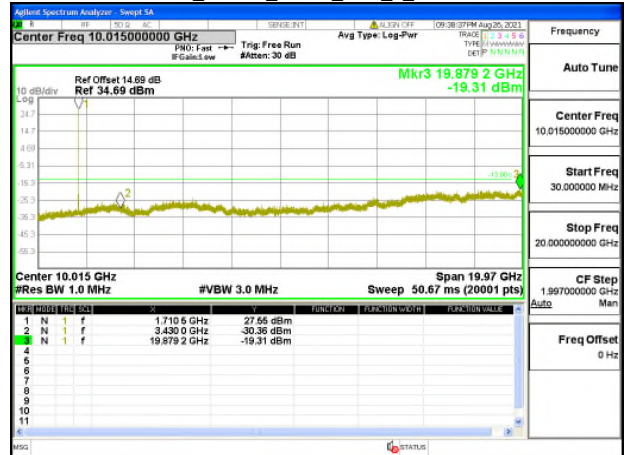
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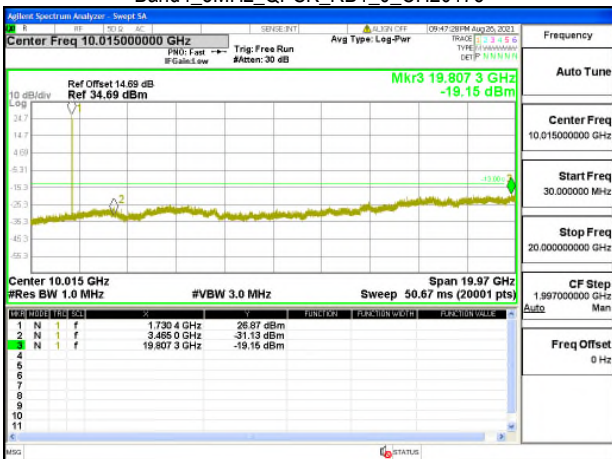
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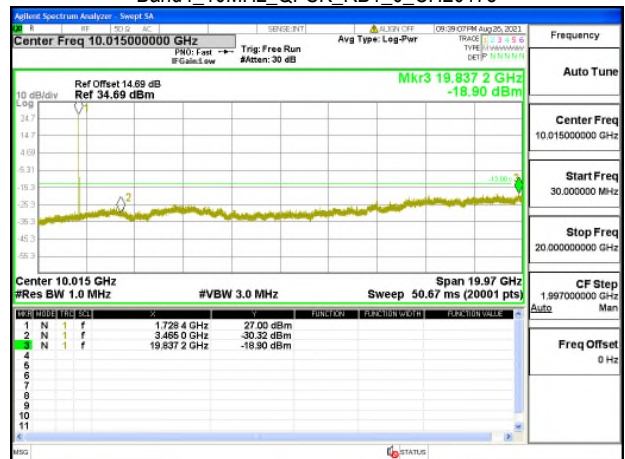
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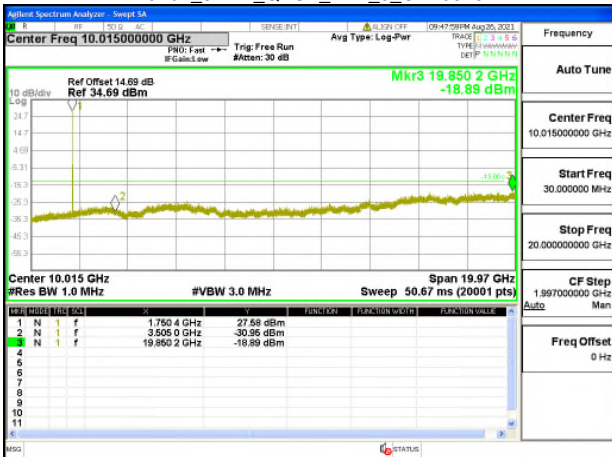
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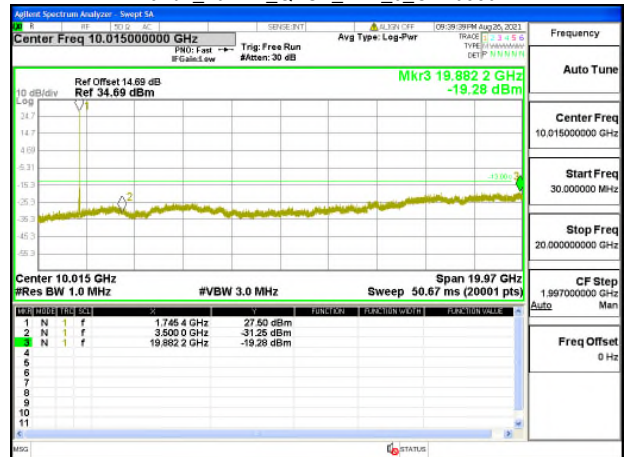
Band4_10MHz_QPSK_RB1_0_CH20175



Band4_5MHz_QPSK_RB1_0_CH20375



Band4_10MHz_QPSK_RB1_0_CH20350

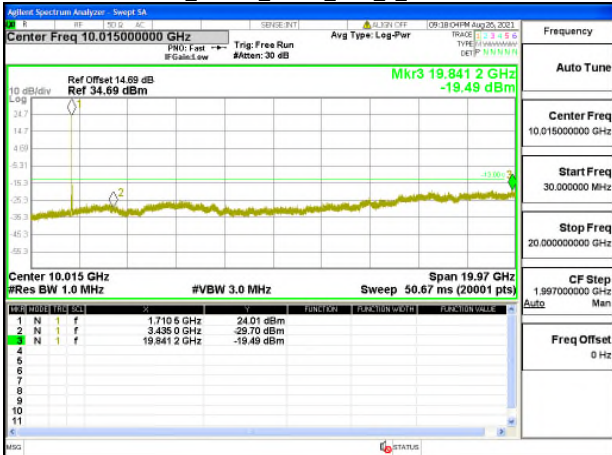


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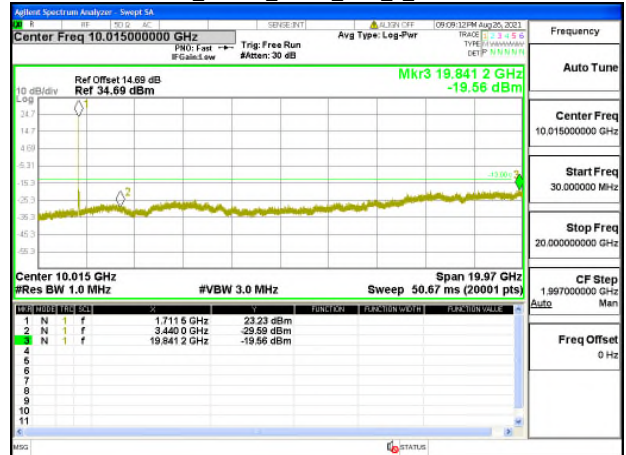
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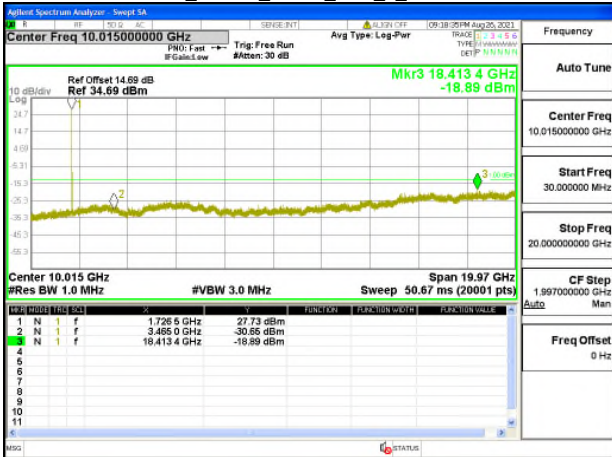
Band4_15MHz_QPSK_RB1_0_CH20025



Band4_20MHz_QPSK_RB1_0_CH20050



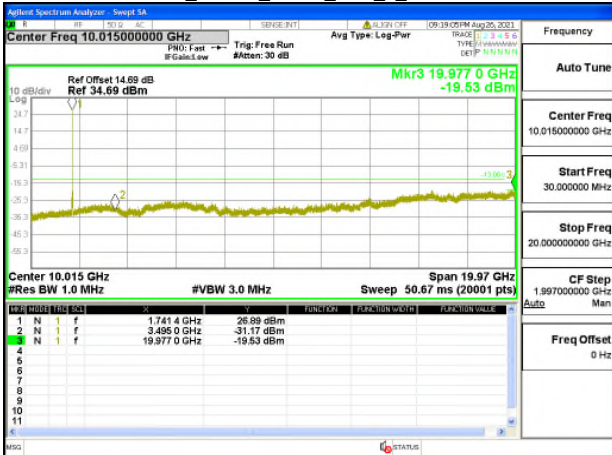
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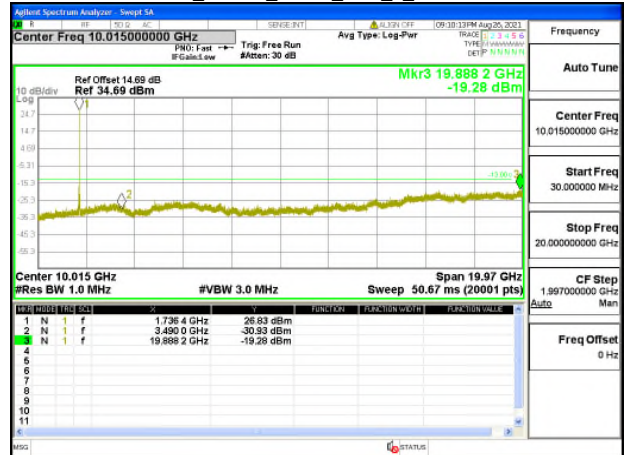
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Band4_15MHz_QPSK_RB1_0_CH20325



Band4_20MHz_QPSK_RB1_0_CH20300

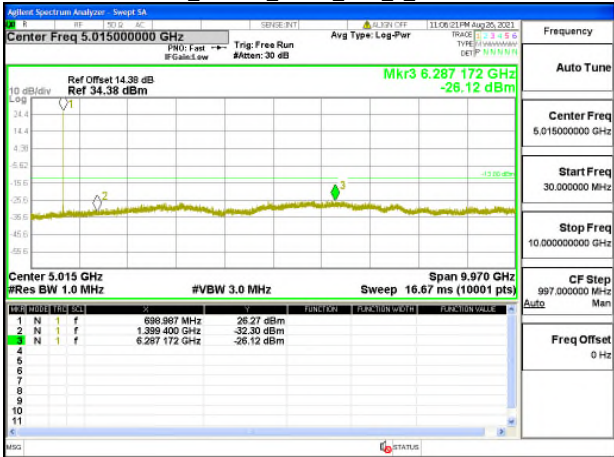


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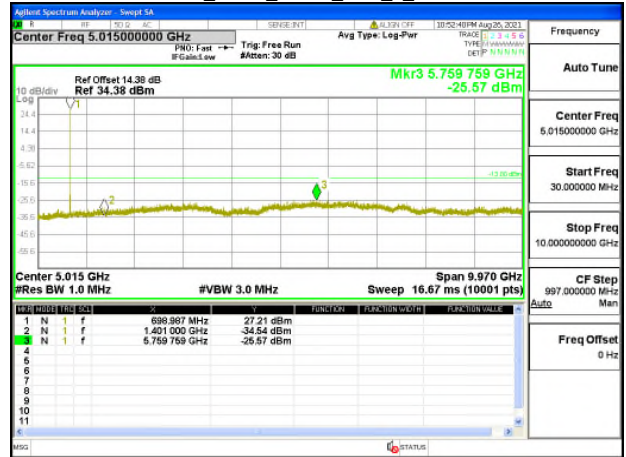
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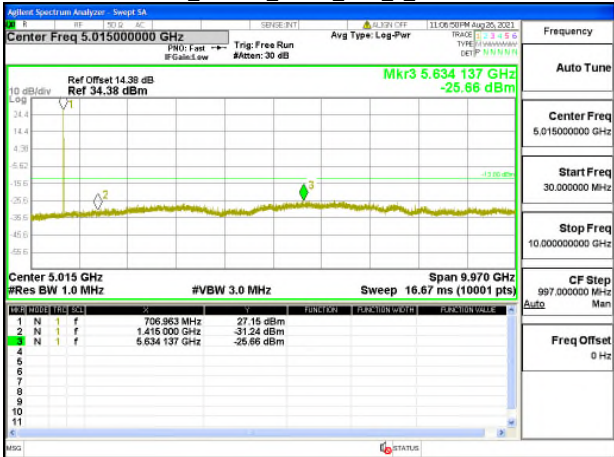
Band12_1.4MHz_QPSK_RB1_0_CH23017



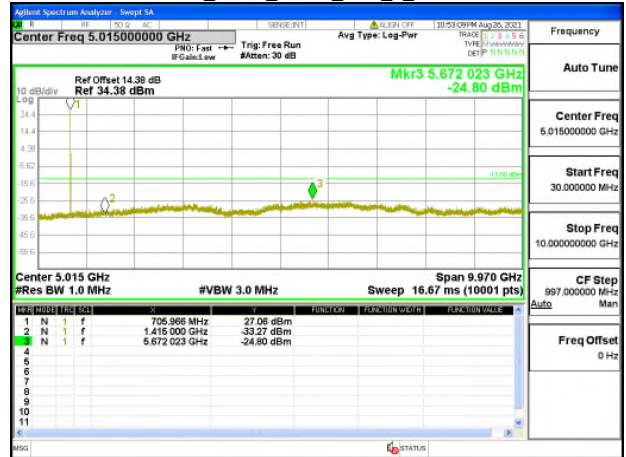
Band12_3MHz_QPSK_RB1_0_CH23025



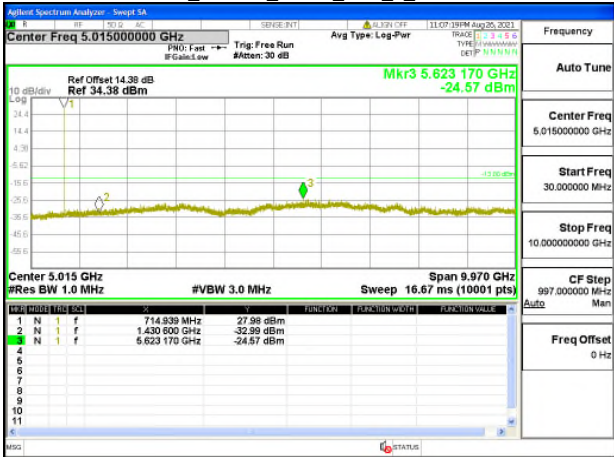
Band12_1.4MHz_QPSK_RB1_0_CH23095



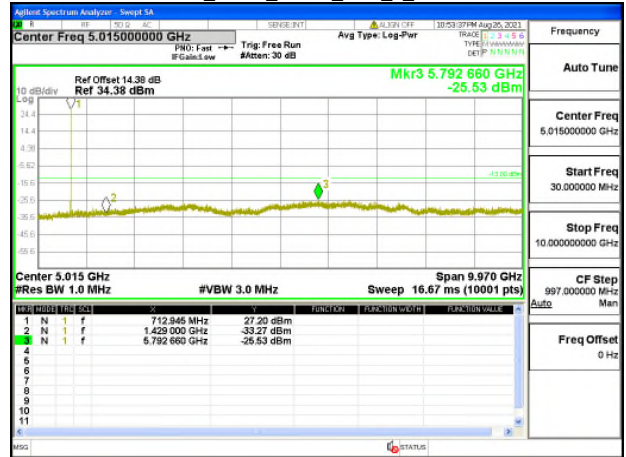
Band12_3MHz_QPSK_RB1_0_CH23095



Band12_1.4MHz_QPSK_RB1_0_CH23173



Band12_3MHz_QPSK_RB1_0_CH23165

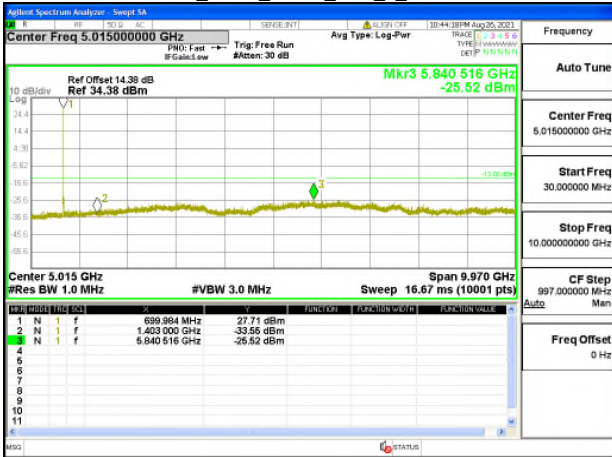


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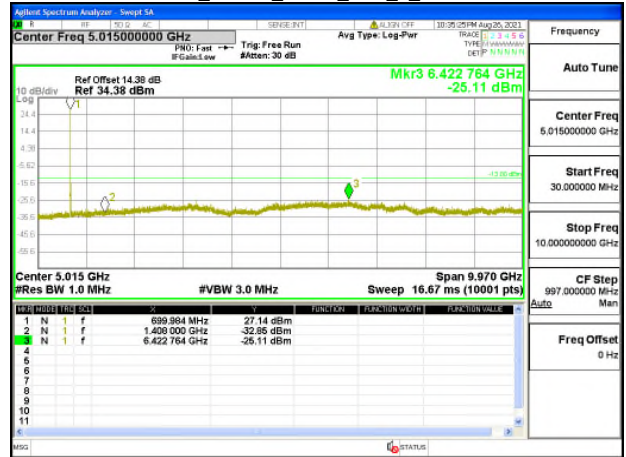
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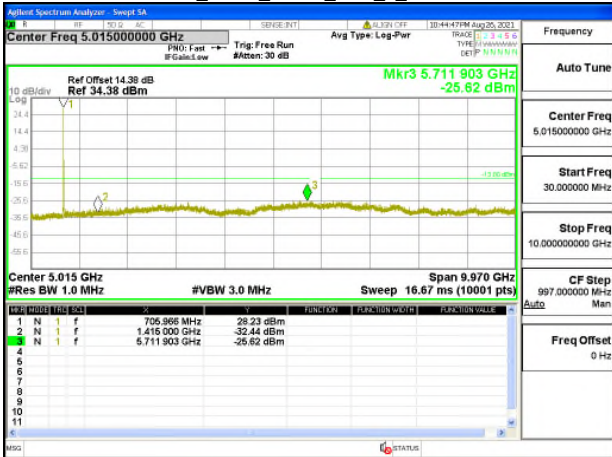
Band12 5MHz_QPSK_RB1_0_CH23035



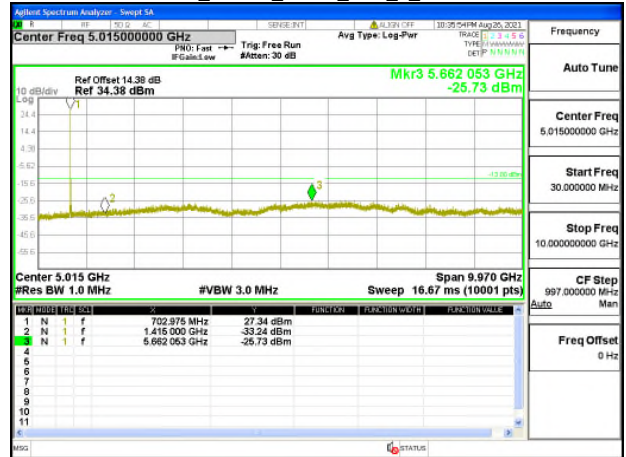
Band12 10MHz_QPSK_RB1_0_CH23060



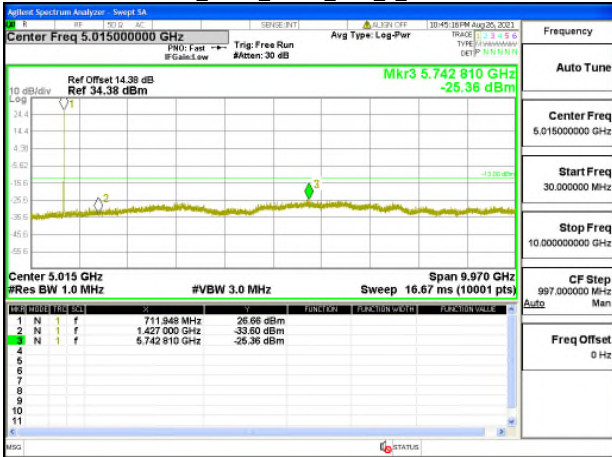
Band12 5MHz_QPSK_RB1_0_CH23095



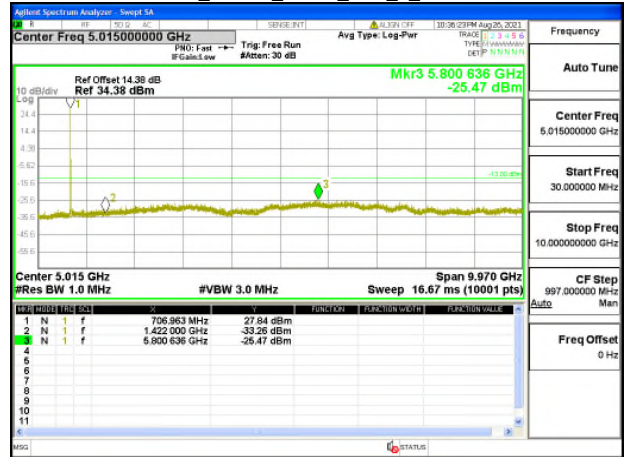
Band12 10MHz_QPSK_RB1_0_CH23095



Band12 5MHz_QPSK_RB1_0_CH23155



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)

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.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

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

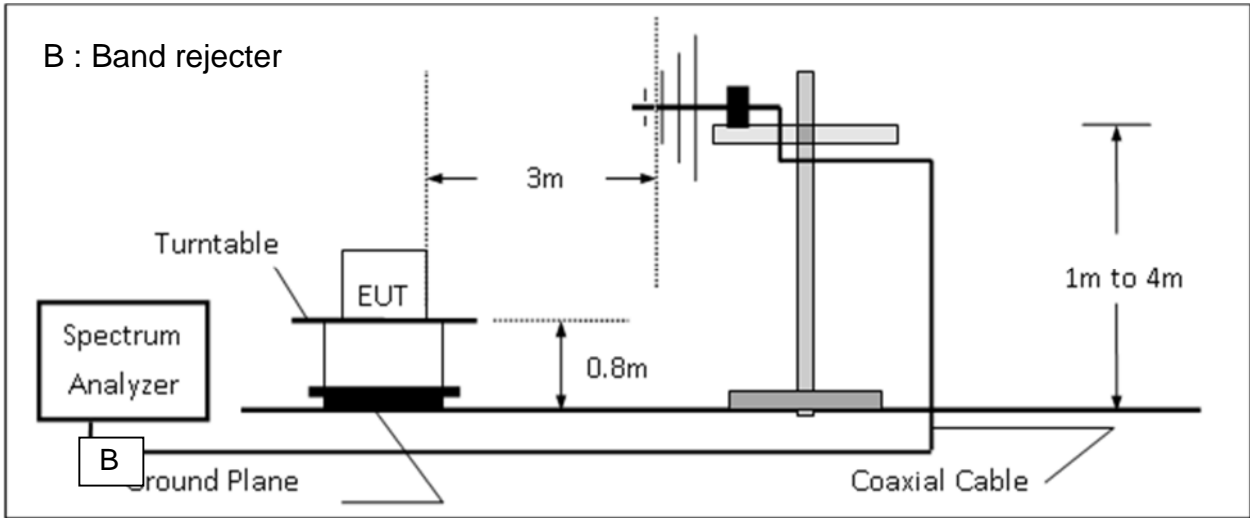
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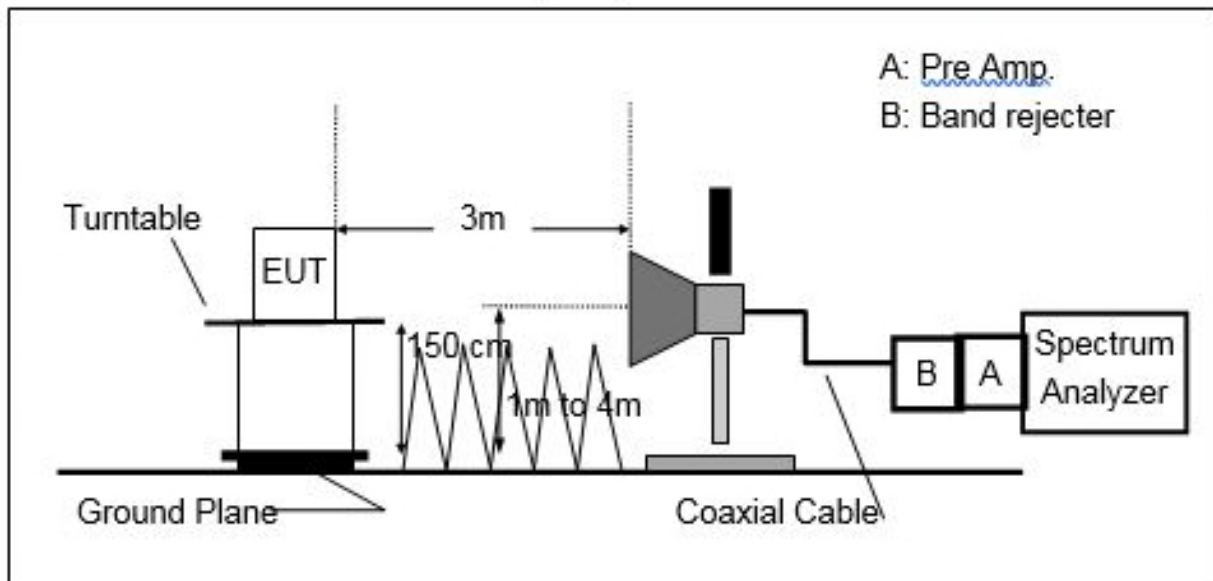
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9.2 EUT Setup

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.

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

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

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9.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021
Bi-log Antenna	SCHWARZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/18/2021	05/17/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/02/2021	08/01/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Signal Generator	Agilent	N5183A	MY50140591	12/27/2020	12/26/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/16/2020	12/15/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11812c	N.C.R	N.C.R

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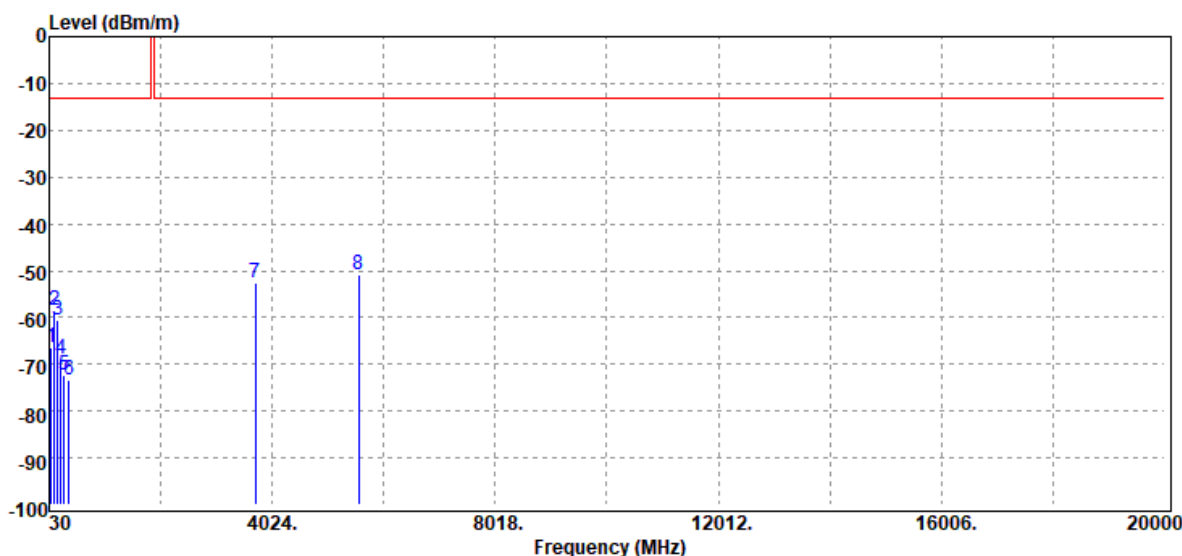
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9.5 Measurement Result:

Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1857.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-66.36	-58.49	-7.05	-0.82	-13.00	-53.36
129.91	-58.57	-55.27	-2.13	-1.17	-13.00	-45.57
182.29	-60.65	-61.18	1.92	-1.39	-13.00	-47.65
243.40	-68.80	-71.56	4.37	-1.61	-13.00	-55.80
298.69	-72.26	-74.66	4.18	-1.78	-13.00	-59.26
390.84	-73.25	-75.59	4.39	-2.05	-13.00	-60.25
3715.00	-52.57	-57.35	12.33	-7.55	-13.00	-39.57
5572.50	-50.81	-54.30	12.95	-9.46	-13.00	-37.81

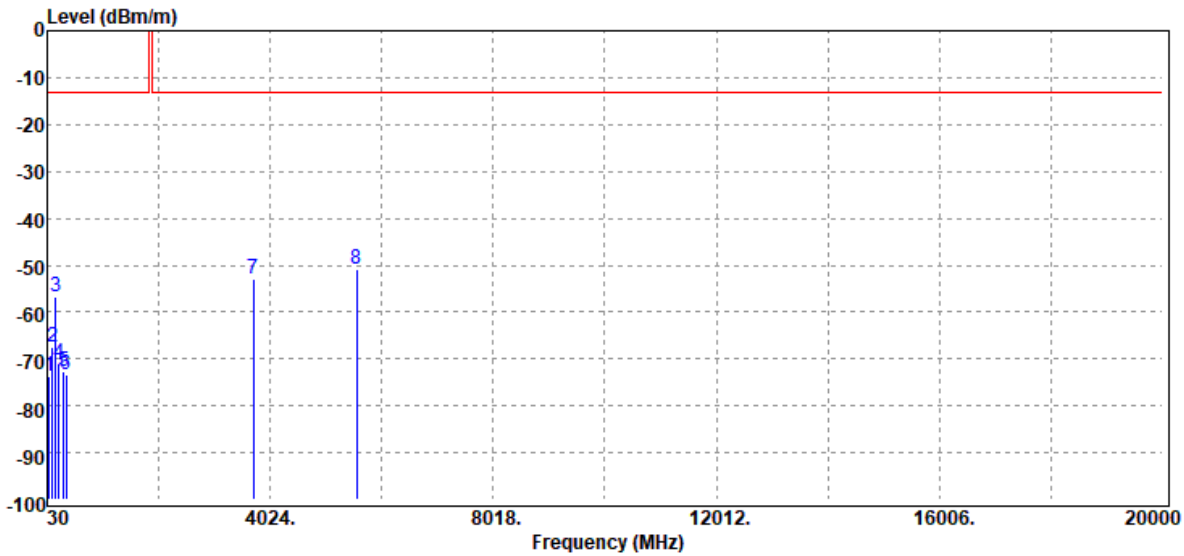
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Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1857.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.68	-65.81	-7.05	-0.82	-13.00	-60.68
129.91	-67.41	-64.11	-2.13	-1.17	-13.00	-54.41
182.29	-56.66	-57.19	1.92	-1.39	-13.00	-43.66
245.34	-70.96	-73.72	4.36	-1.60	-13.00	-57.96
330.70	-72.58	-74.92	4.25	-1.91	-13.00	-59.58
364.65	-73.25	-75.72	4.43	-1.96	-13.00	-60.25
3715.00	-52.96	-57.74	12.33	-7.55	-13.00	-39.96
5572.50	-51.03	-54.52	12.95	-9.46	-13.00	-38.03

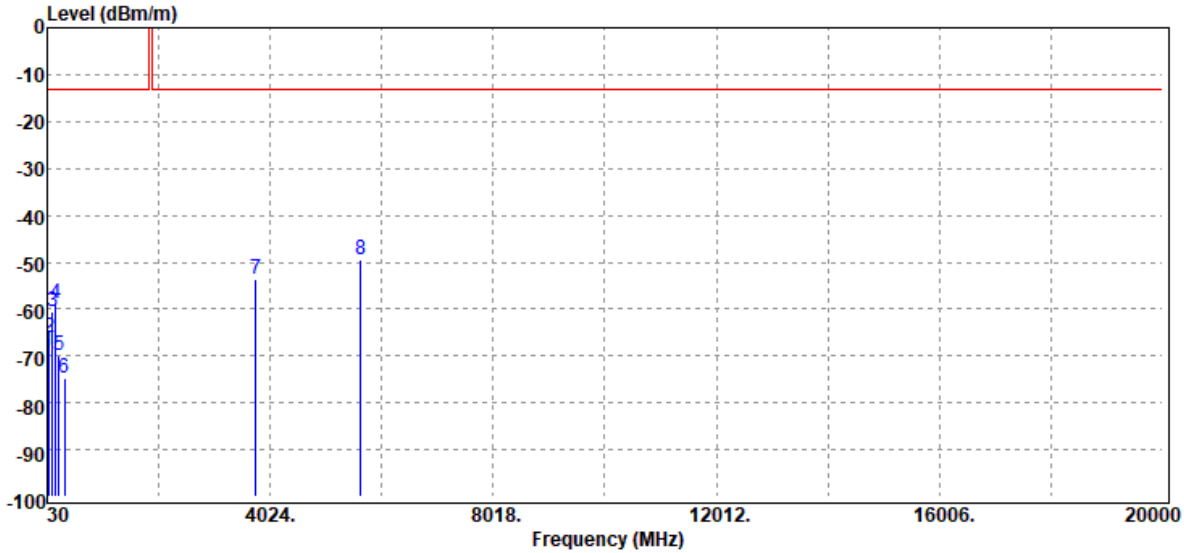
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Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-68.77	-56.58	-11.48	-0.71	-13.00	-55.77
68.80	-66.23	-58.36	-7.05	-0.82	-13.00	-53.23
129.91	-60.39	-57.09	-2.13	-1.17	-13.00	-47.39
182.29	-58.89	-59.42	1.92	-1.39	-13.00	-45.89
245.34	-69.76	-72.52	4.36	-1.60	-13.00	-56.76
338.46	-74.64	-77.05	4.30	-1.89	-13.00	-61.64
3760.00	-53.58	-58.35	12.40	-7.63	-13.00	-40.58
5640.00	-49.47	-53.24	13.00	-9.23	-13.00	-36.47

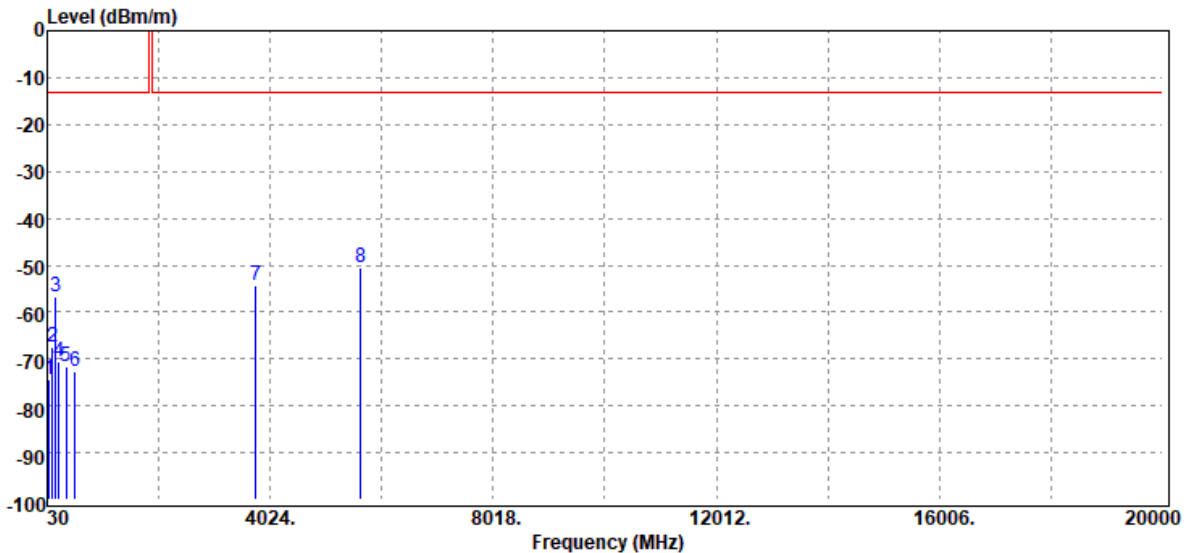
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Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-74.42	-66.55	-7.05	-0.82	-13.00	-61.42
128.94	-67.39	-64.22	-2.00	-1.17	-13.00	-54.39
183.26	-56.78	-57.46	2.07	-1.39	-13.00	-43.78
245.34	-70.53	-73.29	4.36	-1.60	-13.00	-57.53
364.65	-71.64	-74.11	4.43	-1.96	-13.00	-58.64
526.64	-72.72	-74.85	4.18	-2.05	-13.00	-59.72
3760.00	-54.41	-59.18	12.40	-7.63	-13.00	-41.41
5640.00	-50.64	-54.41	13.00	-9.23	-13.00	-37.64

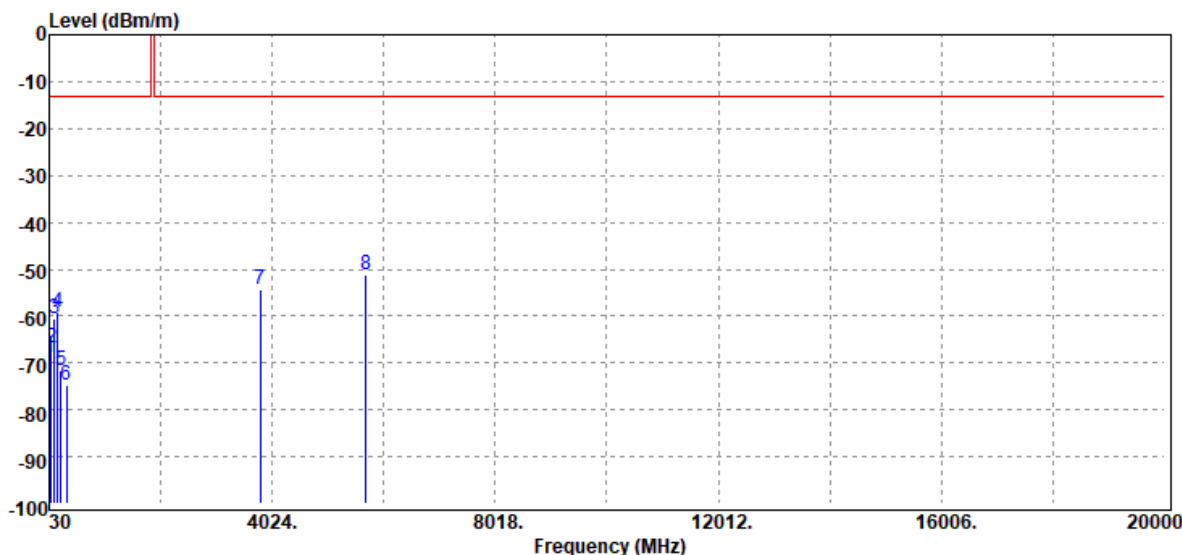
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Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1902.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-68.75	-57.86	-10.16	-0.73	-13.00	-55.75
68.80	-66.81	-58.94	-7.05	-0.82	-13.00	-53.81
129.91	-60.65	-57.35	-2.13	-1.17	-13.00	-47.65
183.26	-59.26	-59.94	2.07	-1.39	-13.00	-46.26
245.34	-71.62	-74.38	4.36	-1.60	-13.00	-58.62
338.46	-74.65	-77.06	4.30	-1.89	-13.00	-61.65
3805.00	-54.48	-59.18	12.39	-7.69	-13.00	-41.48
5707.50	-51.38	-55.09	12.80	-9.09	-13.00	-38.38

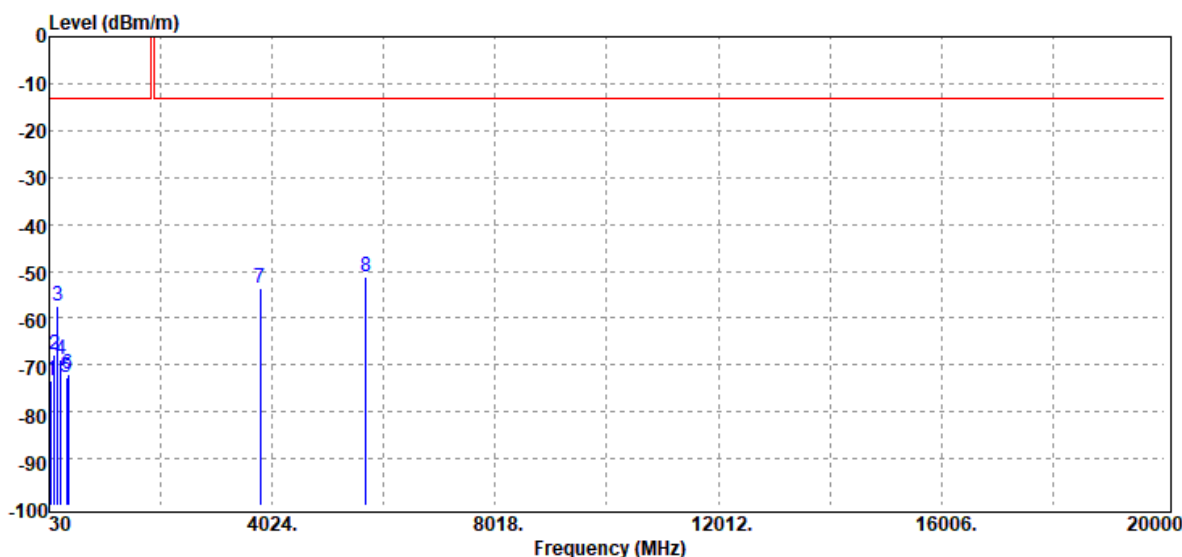
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Report Number :ER-2021-80053
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1902.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.40	-65.53	-7.05	-0.82	-13.00	-60.40
128.94	-67.74	-64.57	-2.00	-1.17	-13.00	-54.74
183.26	-57.56	-58.24	2.07	-1.39	-13.00	-44.56
243.40	-68.72	-71.48	4.37	-1.61	-13.00	-55.72
338.46	-72.79	-75.20	4.30	-1.89	-13.00	-59.79
364.65	-71.88	-74.35	4.43	-1.96	-13.00	-58.88
3805.00	-53.72	-58.42	12.39	-7.69	-13.00	-40.72
5707.50	-51.36	-55.07	12.80	-9.09	-13.00	-38.36

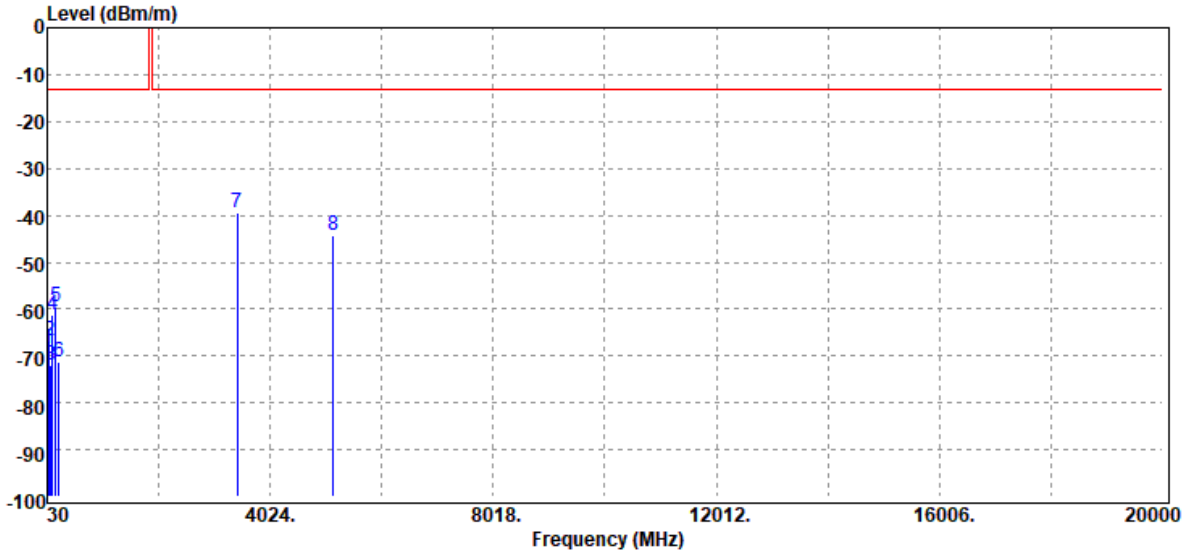
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1717.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-68.49	-56.30	-11.48	-0.71	-13.00	-55.49
68.80	-66.68	-58.81	-7.05	-0.82	-13.00	-53.68
91.11	-71.92	-70.69	-0.25	-0.98	-13.00	-58.92
129.91	-61.18	-57.88	-2.13	-1.17	-13.00	-48.18
183.26	-59.68	-60.36	2.07	-1.39	-13.00	-46.68
245.34	-71.39	-74.15	4.36	-1.60	-13.00	-58.39
3435.00	-39.37	-45.99	12.53	-5.91	-13.00	-26.37
5152.50	-44.45	-48.63	12.12	-7.94	-13.00	-31.45

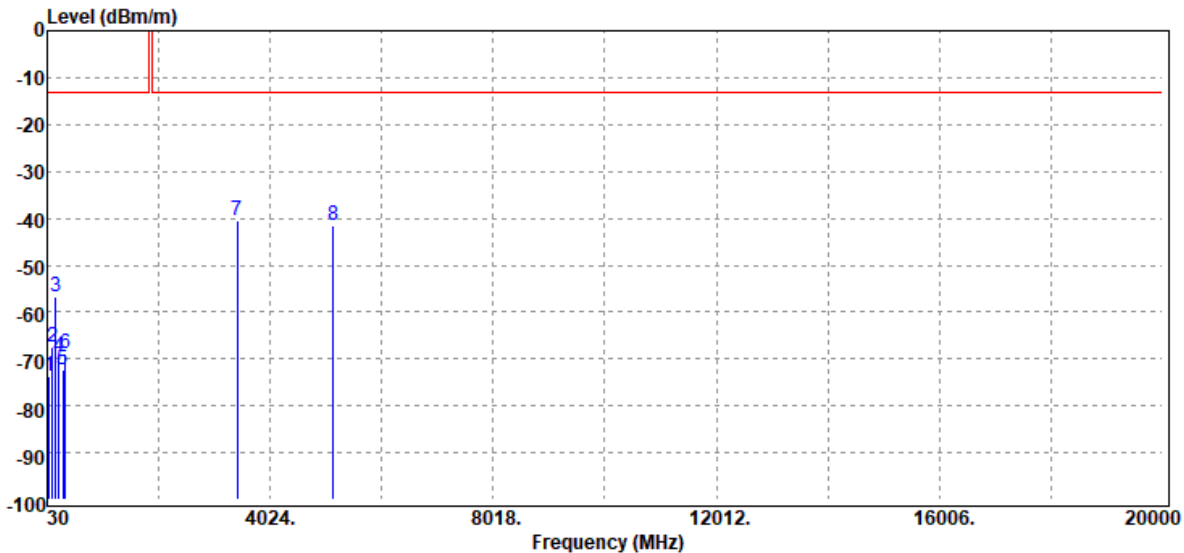
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1717.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.57	-65.70	-7.05	-0.82	-13.00	-60.57
129.91	-67.43	-64.13	-2.13	-1.17	-13.00	-54.43
178.41	-56.64	-56.37	1.09	-1.36	-13.00	-43.64
245.34	-69.46	-72.22	4.36	-1.60	-13.00	-56.46
309.36	-72.40	-74.85	4.21	-1.76	-13.00	-59.40
350.10	-68.87	-71.40	4.56	-2.03	-13.00	-55.87
3435.00	-40.55	-47.17	12.53	-5.91	-13.00	-27.55
5152.50	-41.58	-45.76	12.12	-7.94	-13.00	-28.58

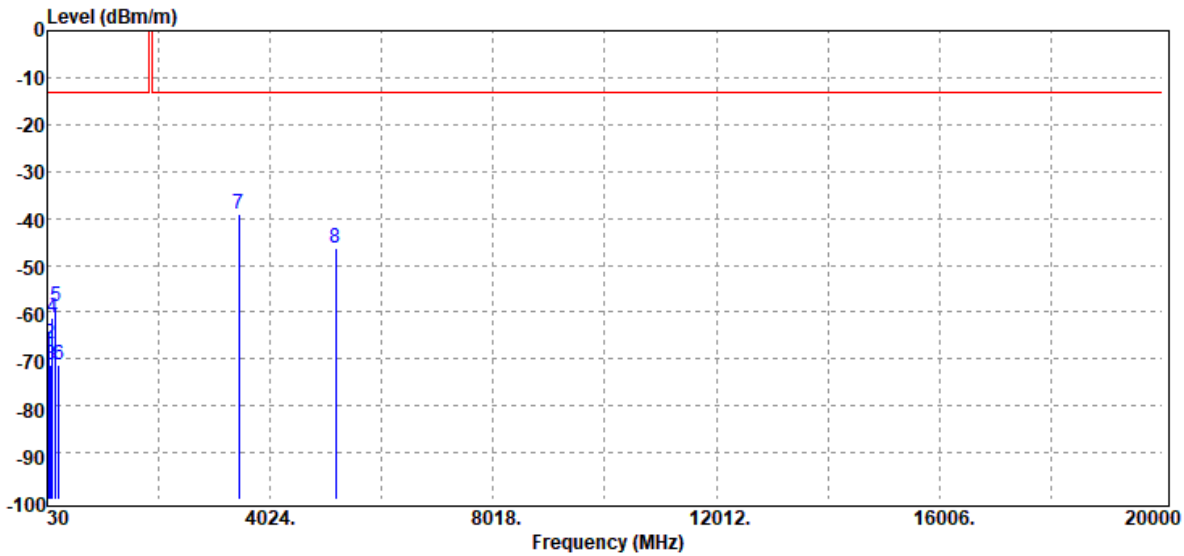
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-68.61	-56.42	-11.48	-0.71	-13.00	-55.61
68.80	-66.66	-58.79	-7.05	-0.82	-13.00	-53.66
91.11	-71.36	-70.13	-0.25	-0.98	-13.00	-58.36
130.88	-61.21	-58.04	-1.99	-1.18	-13.00	-48.21
182.29	-58.87	-59.40	1.92	-1.39	-13.00	-45.87
245.34	-71.39	-74.15	4.36	-1.60	-13.00	-58.39
3465.00	-38.96	-45.33	12.47	-6.10	-13.00	-25.96
5197.50	-46.33	-50.84	12.39	-7.88	-13.00	-33.33

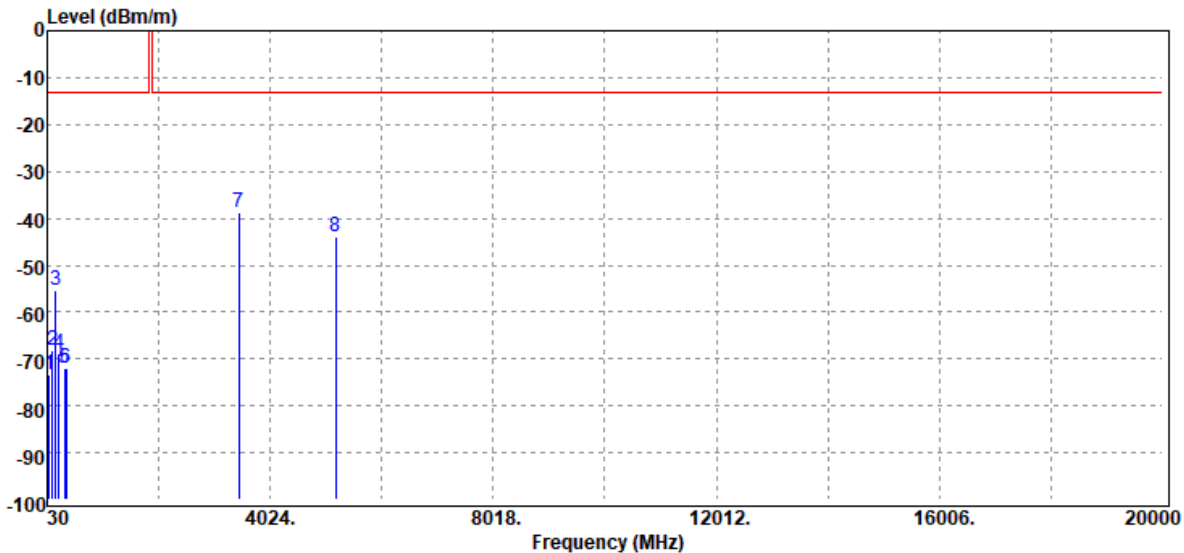
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.19	-65.32	-7.05	-0.82	-13.00	-60.19
129.91	-67.99	-64.69	-2.13	-1.17	-13.00	-54.99
182.29	-55.36	-55.89	1.92	-1.39	-13.00	-42.36
243.40	-68.74	-71.50	4.37	-1.61	-13.00	-55.74
338.46	-71.99	-74.40	4.30	-1.89	-13.00	-58.99
364.65	-71.86	-74.33	4.43	-1.96	-13.00	-58.86
3465.00	-38.69	-45.06	12.47	-6.10	-13.00	-25.69
5197.50	-43.97	-48.48	12.39	-7.88	-13.00	-30.97

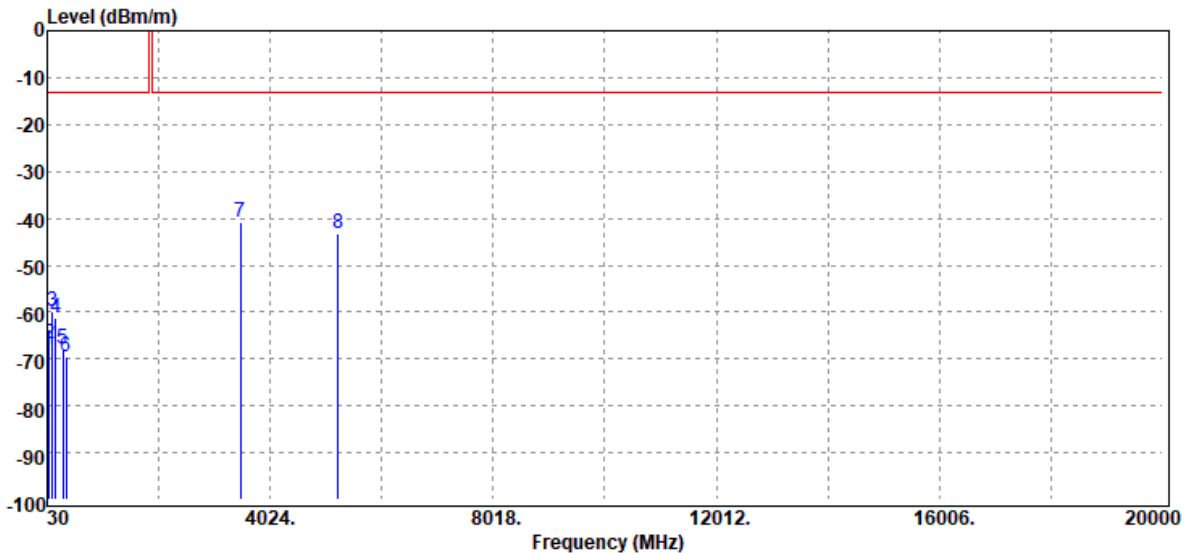
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1747.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-68.04	-55.85	-11.48	-0.71	-13.00	-55.04
68.80	-66.78	-58.91	-7.05	-0.82	-13.00	-53.78
129.91	-59.75	-56.45	-2.13	-1.17	-13.00	-46.75
178.41	-61.16	-60.89	1.09	-1.36	-13.00	-48.16
309.36	-67.88	-70.33	4.21	-1.76	-13.00	-54.88
367.56	-69.70	-72.10	4.38	-1.98	-13.00	-56.70
3495.00	-40.71	-46.83	12.41	-6.29	-13.00	-27.71
5242.50	-43.38	-48.11	12.74	-8.01	-13.00	-30.38

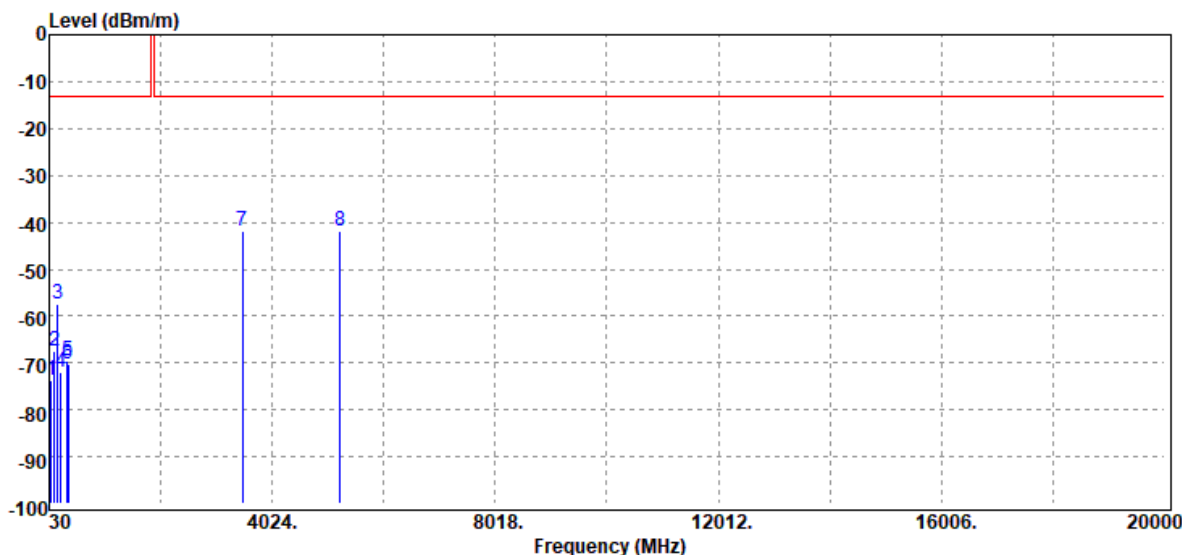
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Report Number :ER-2021-80053
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1747.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.56	-65.69	-7.05	-0.82	-13.00	-60.56
129.91	-67.46	-64.16	-2.13	-1.17	-13.00	-54.46
183.26	-57.46	-58.14	2.07	-1.39	-13.00	-44.46
245.34	-71.94	-74.70	4.36	-1.60	-13.00	-58.94
354.95	-69.67	-72.17	4.49	-1.99	-13.00	-56.67
362.71	-70.15	-72.66	4.46	-1.95	-13.00	-57.15
3495.00	-41.85	-47.97	12.41	-6.29	-13.00	-28.85
5242.50	-41.81	-46.54	12.74	-8.01	-13.00	-28.81

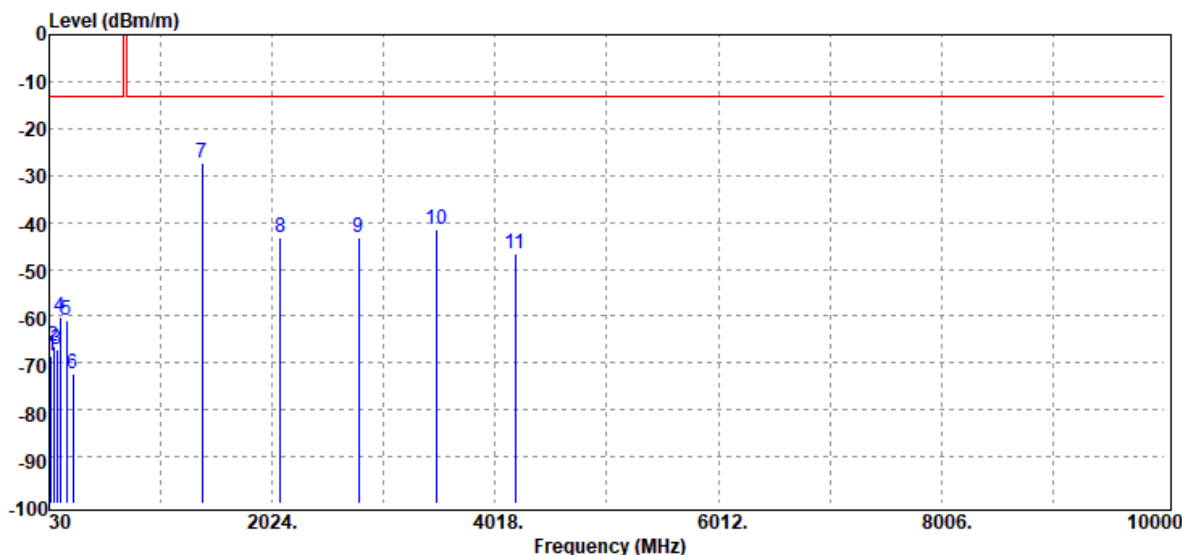
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Report Number :ER-2021-80053
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :699.7 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-68.68	-56.49	-11.48	-0.71	-13.00	-55.68
68.80	-66.44	-58.57	-7.05	-0.82	-13.00	-53.44
94.99	-67.16	-65.79	-0.37	-1.00	-13.00	-54.16
129.91	-60.31	-57.01	-2.13	-1.17	-13.00	-47.31
182.29	-60.74	-61.27	1.92	-1.39	-13.00	-47.74
243.40	-72.42	-75.18	4.37	-1.61	-13.00	-59.42
1399.40	-27.28	-31.03	7.59	-3.84	-13.00	-14.28
2099.10	-43.20	-48.33	9.90	-4.77	-13.00	-30.20
2798.80	-43.22	-48.26	10.70	-5.66	-13.00	-30.22
3498.50	-41.68	-47.77	12.40	-6.31	-13.00	-28.68
4198.20	-46.85	-52.21	12.50	-7.14	-13.00	-33.85

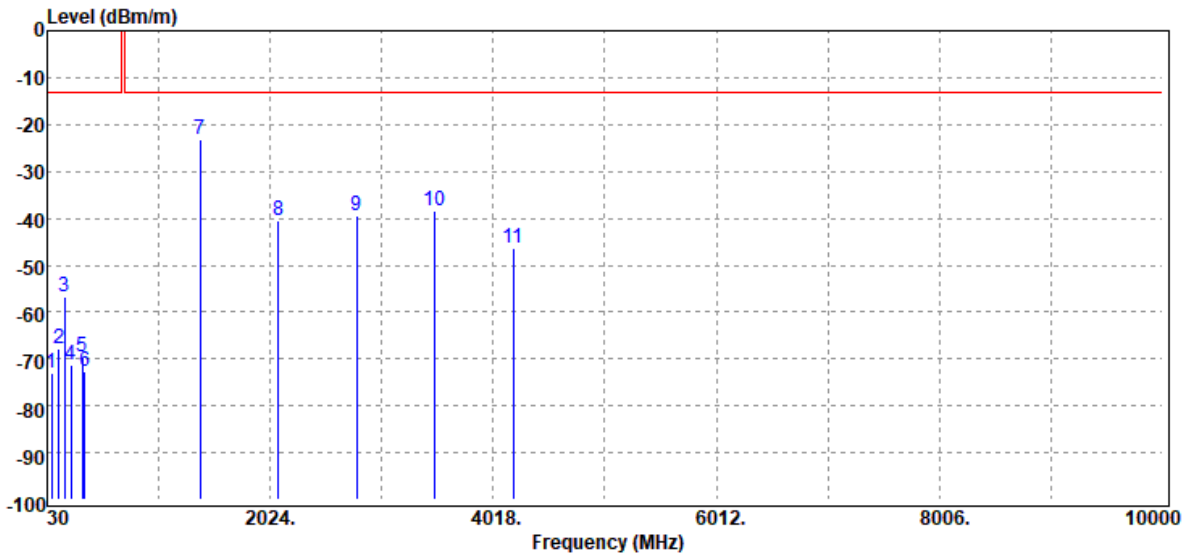
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 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :699.7 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-72.99	-65.12	-7.05	-0.82	-13.00	-59.99
131.85	-67.82	-64.53	-2.09	-1.20	-13.00	-54.82
182.29	-56.66	-57.19	1.92	-1.39	-13.00	-43.66
245.34	-71.32	-74.08	4.36	-1.60	-13.00	-58.32
345.25	-69.45	-71.92	4.44	-1.97	-13.00	-56.45
364.65	-72.57	-75.04	4.43	-1.96	-13.00	-59.57
1399.40	-23.22	-26.97	7.59	-3.84	-13.00	-10.22
2099.10	-40.51	-45.64	9.90	-4.77	-13.00	-27.51
2798.80	-39.57	-44.61	10.70	-5.66	-13.00	-26.57
3498.50	-38.41	-44.50	12.40	-6.31	-13.00	-25.41
4198.20	-46.39	-51.75	12.50	-7.14	-13.00	-33.39

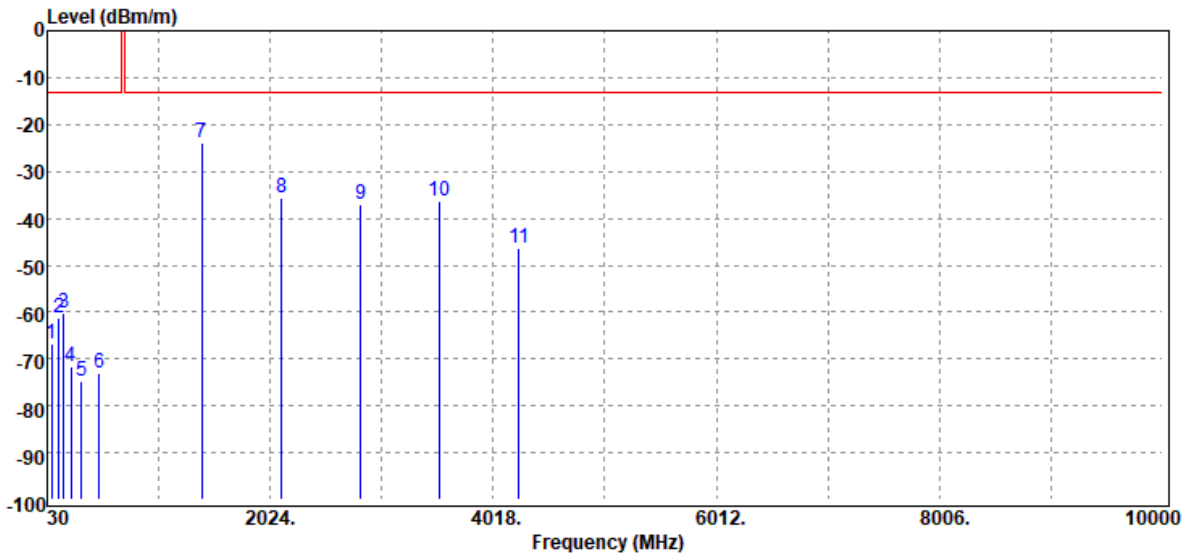
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Report Number :ER-2021-80053
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-66.62	-58.75	-7.05	-0.82	-13.00	-53.62
131.85	-61.39	-58.10	-2.09	-1.20	-13.00	-48.39
180.35	-60.07	-60.16	1.47	-1.38	-13.00	-47.07
243.40	-71.67	-74.43	4.37	-1.61	-13.00	-58.67
338.46	-74.81	-77.22	4.30	-1.89	-13.00	-61.81
498.51	-73.01	-74.84	4.23	-2.40	-13.00	-60.01
1415.00	-23.92	-27.78	7.72	-3.86	-13.00	-10.92
2122.50	-35.61	-40.44	9.63	-4.80	-13.00	-22.61
2830.00	-36.87	-42.10	10.82	-5.59	-13.00	-23.87
3537.50	-36.40	-42.33	12.40	-6.47	-13.00	-23.40
4245.00	-46.20	-51.45	12.41	-7.16	-13.00	-33.20

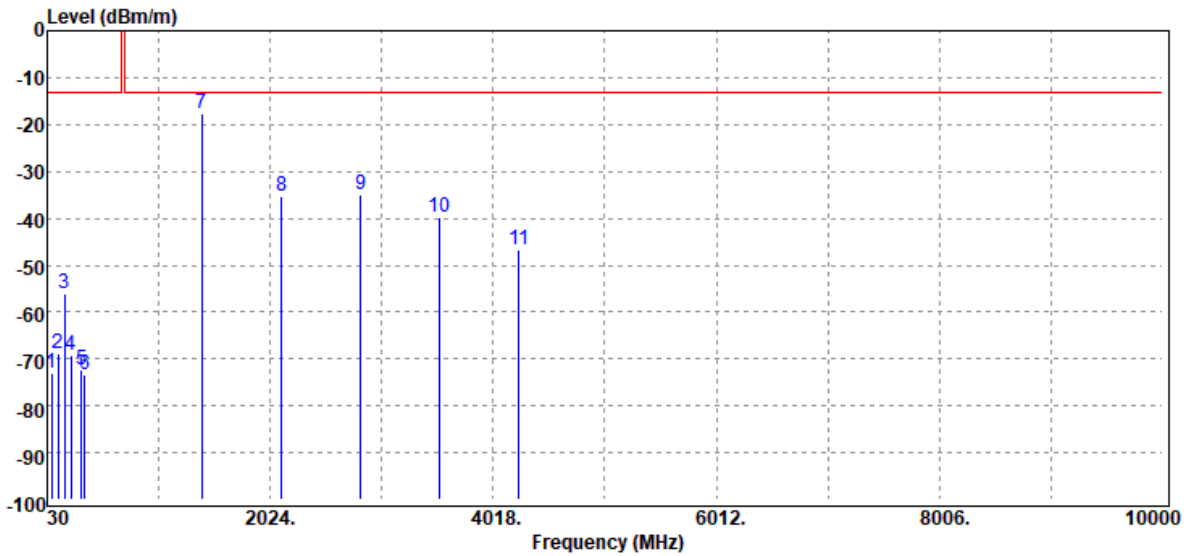
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Report Number :ER-2021-80053
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.02	-65.15	-7.05	-0.82	-13.00	-60.02
127.97	-68.79	-65.75	-1.88	-1.16	-13.00	-55.79
183.26	-56.04	-56.72	2.07	-1.39	-13.00	-43.04
245.34	-69.33	-72.09	4.36	-1.60	-13.00	-56.33
338.46	-72.40	-74.81	4.30	-1.89	-13.00	-59.40
364.65	-73.28	-75.75	4.43	-1.96	-13.00	-60.28
1415.00	-17.76	-21.62	7.72	-3.86	-13.00	-4.76
2122.50	-35.23	-40.06	9.63	-4.80	-13.00	-22.23
2830.00	-35.12	-40.35	10.82	-5.59	-13.00	-22.12
3537.50	-39.73	-45.66	12.40	-6.47	-13.00	-26.73
4245.00	-46.66	-51.91	12.41	-7.16	-13.00	-33.66

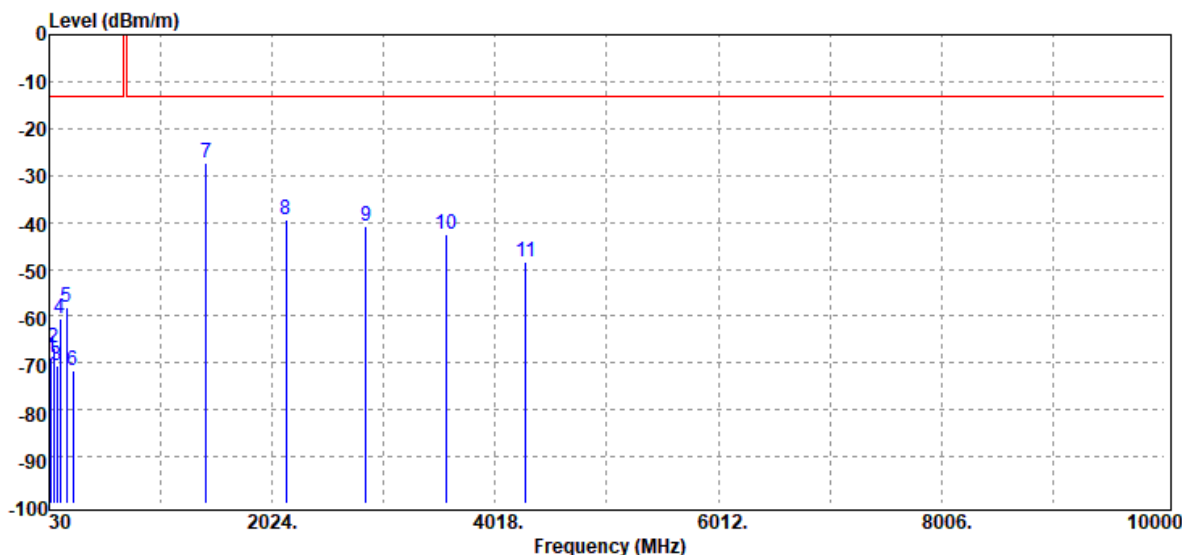
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Report Number :ER-2021-80053
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :715.3 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :VERTICAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-69.00	-56.81	-11.48	-0.71	-13.00	-56.00
68.80	-66.63	-58.76	-7.05	-0.82	-13.00	-53.63
94.99	-70.51	-69.14	-0.37	-1.00	-13.00	-57.51
129.91	-60.40	-57.10	-2.13	-1.17	-13.00	-47.40
182.29	-58.25	-58.78	1.92	-1.39	-13.00	-45.25
243.40	-71.55	-74.31	4.37	-1.61	-13.00	-58.55
1430.60	-27.48	-31.45	7.85	-3.88	-13.00	-14.48
2145.90	-39.45	-43.97	9.35	-4.83	-13.00	-26.45
2861.20	-40.83	-46.28	10.95	-5.50	-13.00	-27.83
3576.50	-42.48	-48.15	12.29	-6.62	-13.00	-29.48
4291.80	-48.30	-53.69	12.57	-7.18	-13.00	-35.30

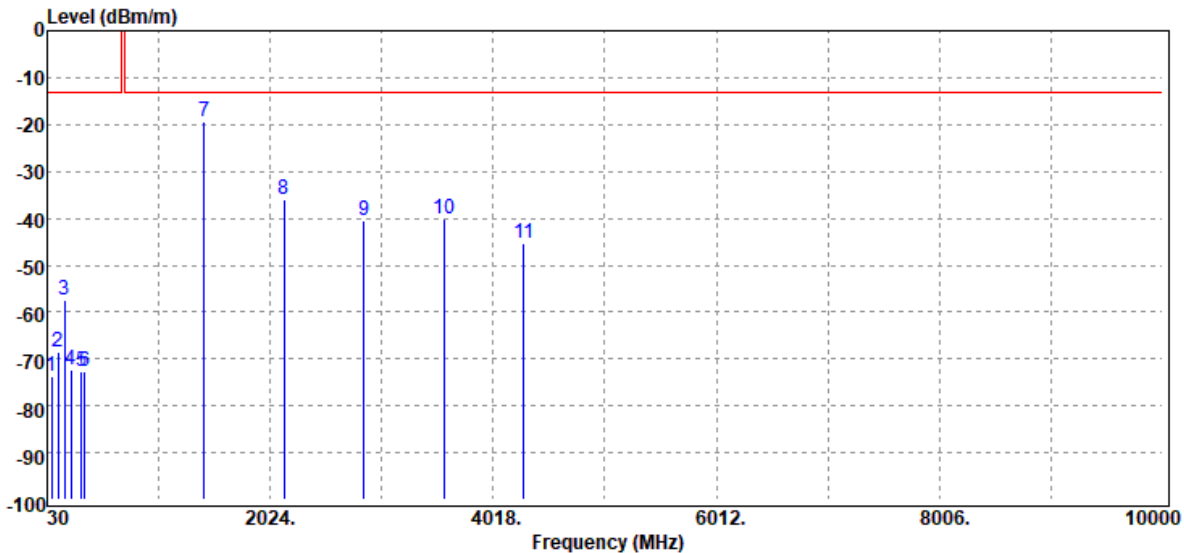
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Report Number :ER-2021-80053
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :715.3 MHz

Test Site :SAC 3
 Test Date :2021-08-26
 Temp./Humi. :27.2/48
 Antenna Pol. :HORIZONTAL
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-73.56	-65.69	-7.05	-0.82	-13.00	-60.56
129.91	-68.59	-65.29	-2.13	-1.17	-13.00	-55.59
182.29	-57.60	-58.13	1.92	-1.39	-13.00	-44.60
245.34	-72.34	-75.10	4.36	-1.60	-13.00	-59.34
338.46	-72.62	-75.03	4.30	-1.89	-13.00	-59.62
364.65	-72.57	-75.04	4.43	-1.96	-13.00	-59.57
1430.60	-19.29	-23.26	7.85	-3.88	-13.00	-6.29
2145.90	-36.00	-40.52	9.35	-4.83	-13.00	-23.00
2861.20	-40.50	-45.95	10.95	-5.50	-13.00	-27.50
3576.50	-39.99	-45.66	12.29	-6.62	-13.00	-26.99
4291.80	-45.35	-50.74	12.57	-7.18	-13.00	-32.35

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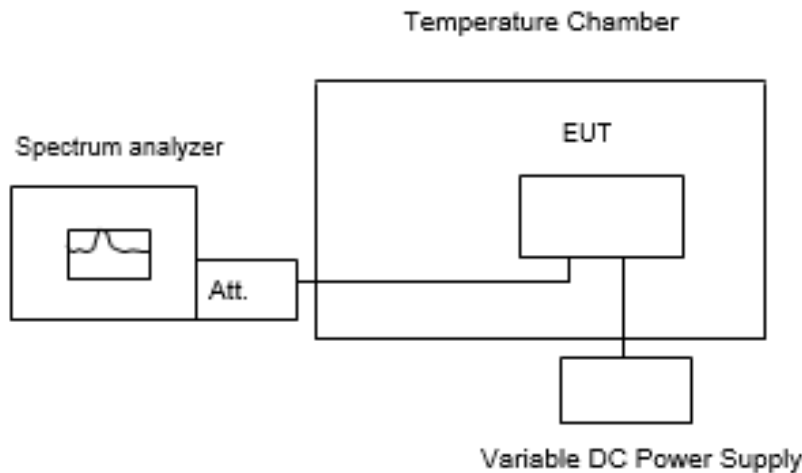
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10 FREQUENCY STABILITY MEASUREMENT

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 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021

10.5 Measurement Result

Note: The battery is rated 6V 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					
126.5	25	1880.000002	2	4700	
110	25	1879.999989	-11	4700	
93.5	25	1880.000002	2	4700	
45.4 (End Point)	25	1879.999995	-5	4700	
Freq. ERROR vs. Temp.					
110	-30	1879.999999	-1	4700	
110	-20	1880.000004	4	4700	
110	-10	1879.999998	-2	4700	
110	0	1880.000010	10	4700	
110	10	1879.999990	-10	4700	
110	20	1879.999998	-2	4700	
110	30	1879.999996	-4	4700	
110	40	1879.999993	-7	4700	
110	50	1880.000007	7	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					
126.5	25	1732.499996	-4	4331	
110	25	1732.500007	7	4331	
93.5	25	1732.500008	8	4331	
45.4 (End Point)	25	1732.500006	6	4331	
Freq. ERROR vs. Temp.					
110	-30	1732.499997	-3	4331	
110	-20	1732.499998	-2	4331	
110	-10	1732.499996	-4	4331	
110	0	1732.499996	-4	4331	
110	10	1732.499997	-3	4331	
110	20	1732.500008	8	4331	
110	30	1732.499994	-6	4331	
110	40	1732.500010	10	4331	
110	50	1732.499989	-11	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					
126.5	25	707.500004	4	1769	
110	25	707.500007	7	1769	
93.5	25	707.499997	-3	1769	
45.4 (End Point)	25	707.500003	3	1769	
Freq. ERROR vs. Temp.					
110	-30	707.499995	-5	1769	
110	-20	707.499990	-10	1769	
110	-10	707.499992	-8	1769	
110	0	707.499998	-2	1769	
110	10	707.499996	-4	1769	
110	20	707.500001	1	1769	
110	30	707.500011	11	1769	
110	40	707.500005	5	1769	
110	50	707.499995	-5	1769	

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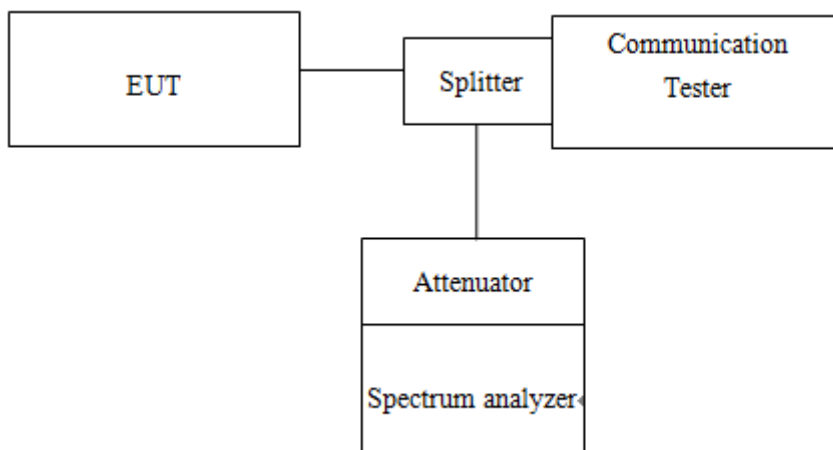
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11 PEAK TO AVERAGE RATIO

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 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021

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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	5.89	13	1851.5	18615	6.34	13
1880.0	18900	6.13	13	1880.0	18900	6.38	13
1909.3	19193	5.72	13	1908.5	19185	6.04	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	6.19	13	1855.0	18650	6.04	13
1880.0	18900	6.00	13	1880.0	18900	5.87	13
1907.5	19175	6.08	13	1905.0	19150	6.06	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	6.01	13	1860.0	18700	6.44	13
1880.0	18900	5.95	13	1880.0	18900	6.34	13
1902.5	19125	5.86	13	1900.0	19100	6.41	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	5.75	13	1711.5	19965	6.09	13
1732.5	20175	5.27	13	1732.5	20175	5.72	13
1754.3	20393	5.97	13	1753.5	20385	6.30	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	5.84	13	1715.0	20000	6.03	13
1732.5	20175	5.55	13	1732.5	20175	5.50	13
1752.5	20375	6.36	13	1750.0	20350	6.28	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	6.00	13	1720.0	20050	6.47	13
1732.5	20175	5.61	13	1732.5	20175	6.03	13
1747.5	20325	5.95	13	1745.0	20300	6.31	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	6.06	13	700.5	23025	6.40	13
707.5	23095	6.41	13	707.5	23095	6.29	13
715.3	23173	6.23	13	714.5	23165	6.42	13

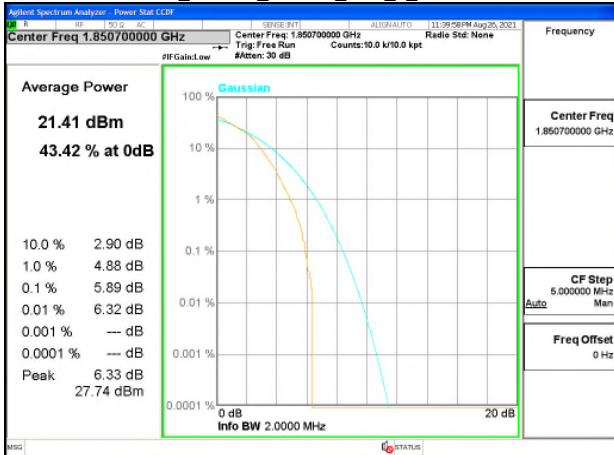
LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	6.23	13	704.0	23060	6.15	13
707.5	23095	6.33	13	707.5	23095	5.96	13
713.5	23155	6.03	13	711.0	23130	6.03	13

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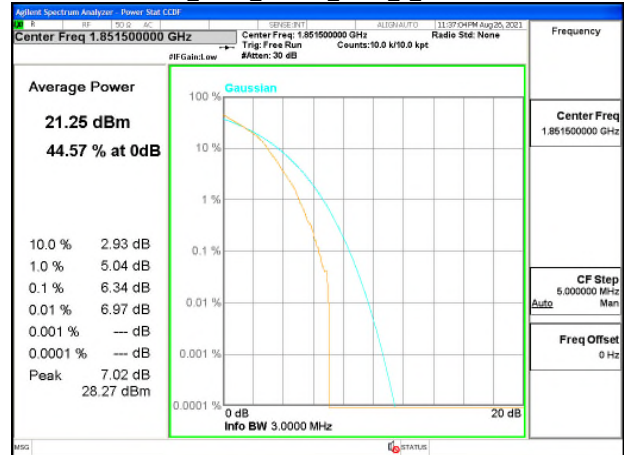
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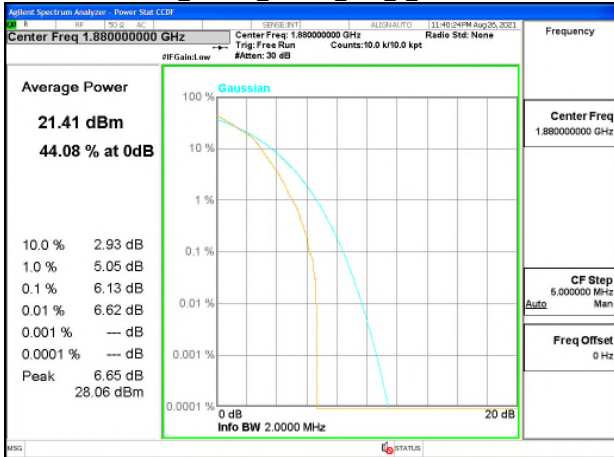
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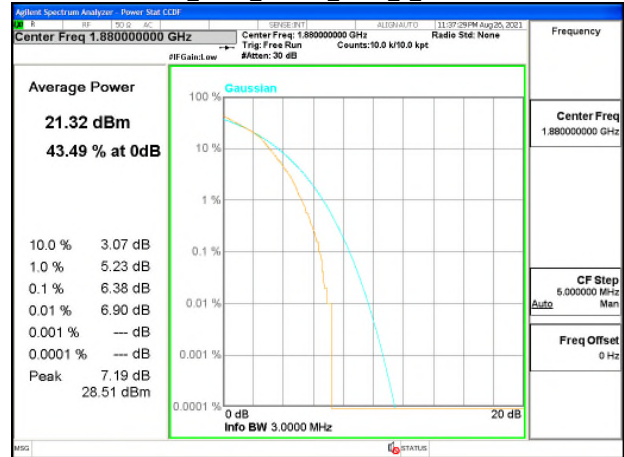
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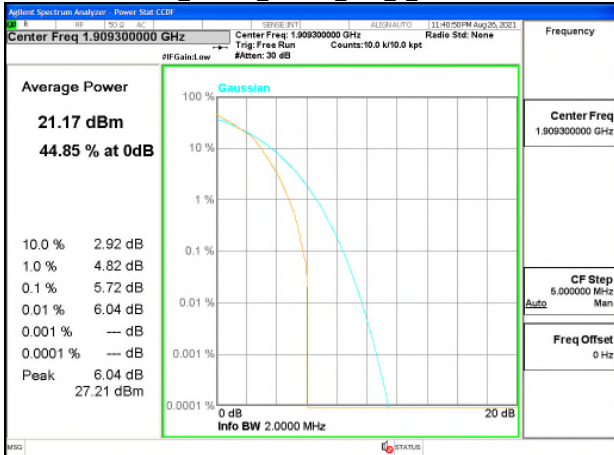
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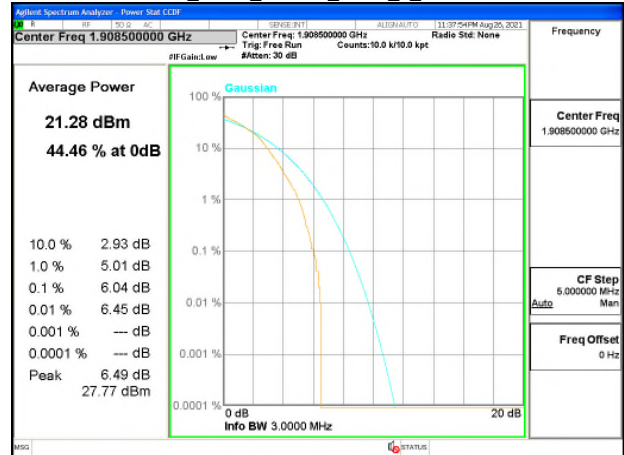
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Band2_1.4MHz_16QAM_RB6_0_CH19193



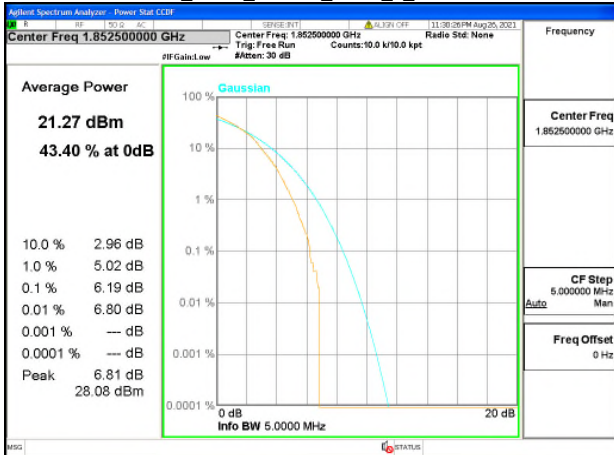
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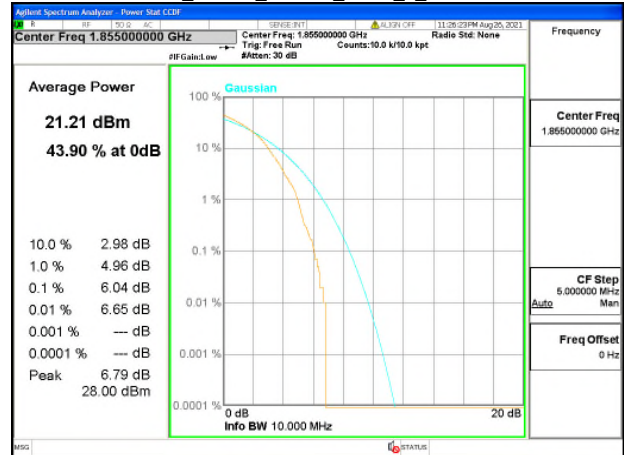
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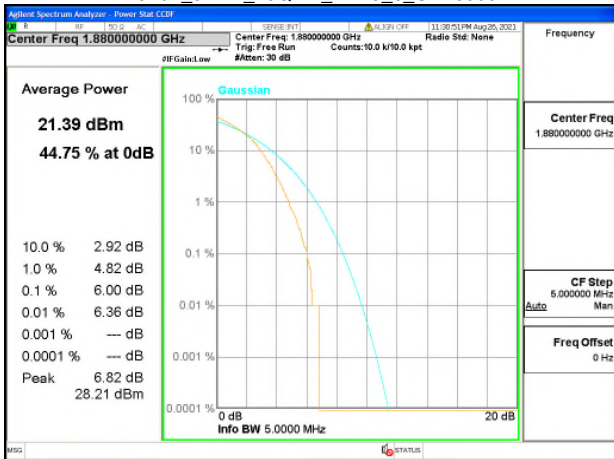
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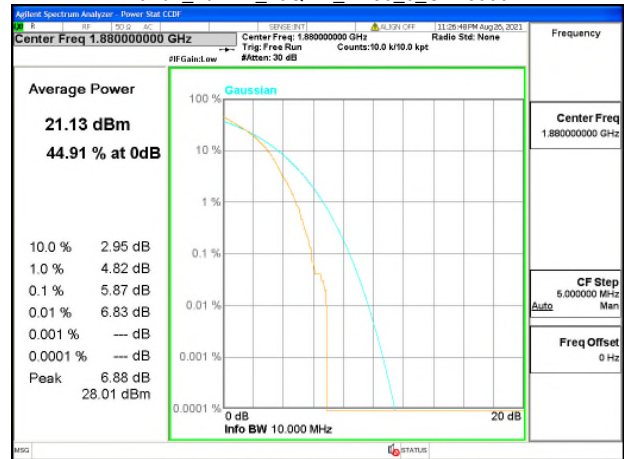
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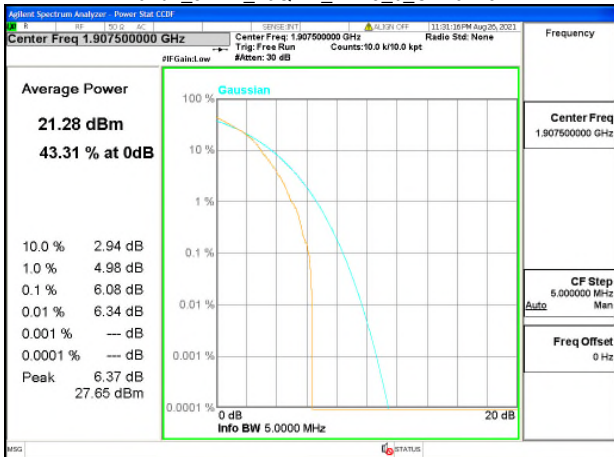
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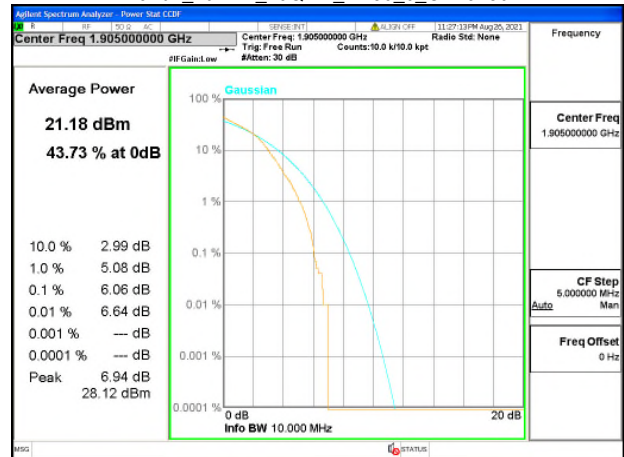
Band2_10MHz_16QAM_RB50_0_CH18900



Band2_5MHz_16QAM_RB25_0_CH19175



Band2_10MHz_16QAM_RB50_0_CH19150

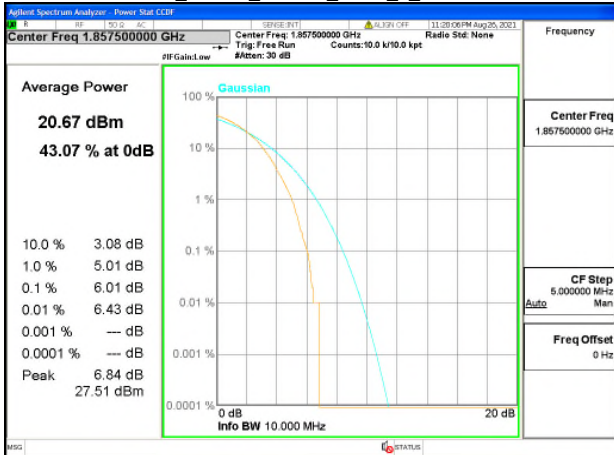


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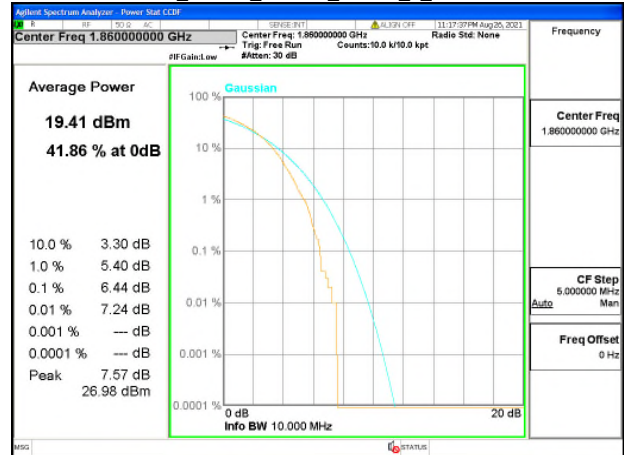
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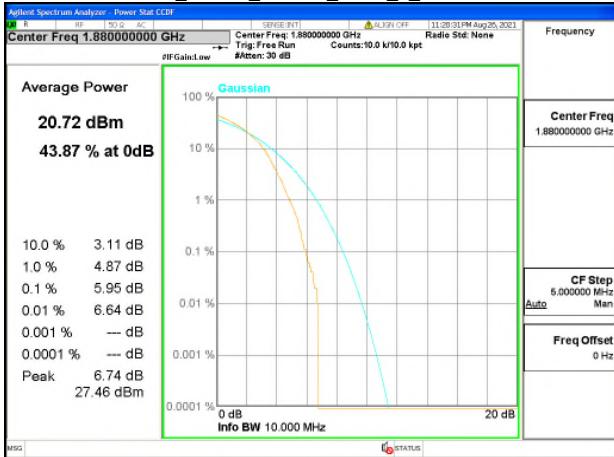
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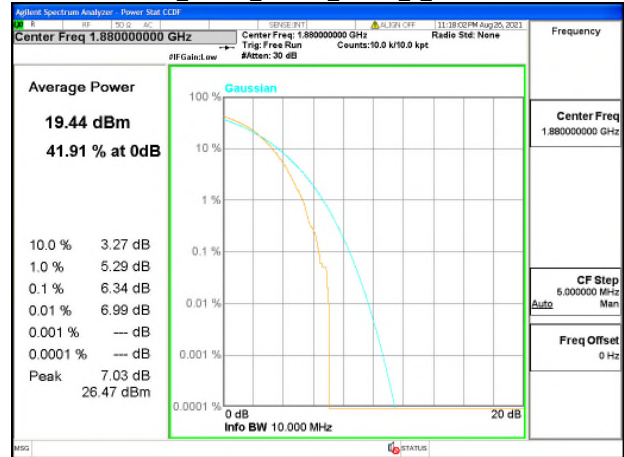
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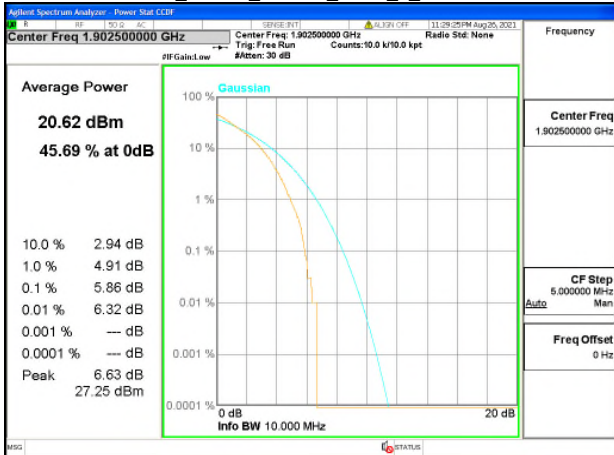
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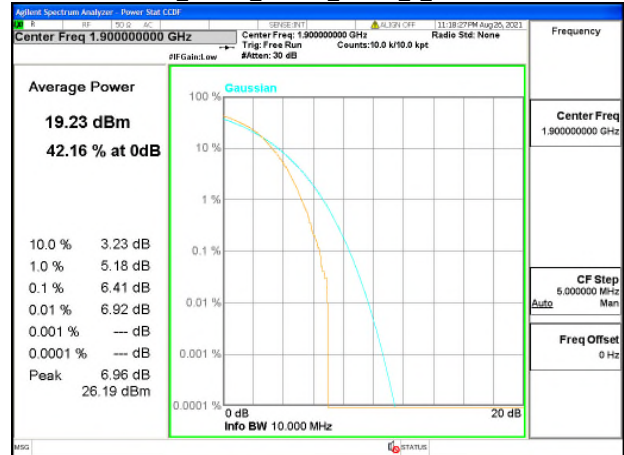
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Band2_15MHz_16QAM_RB75_0_CH19125



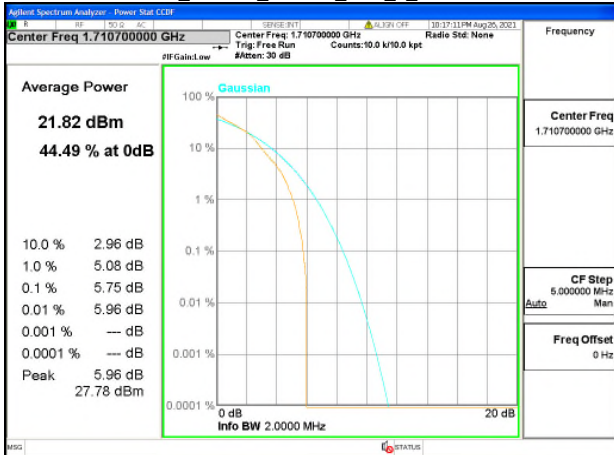
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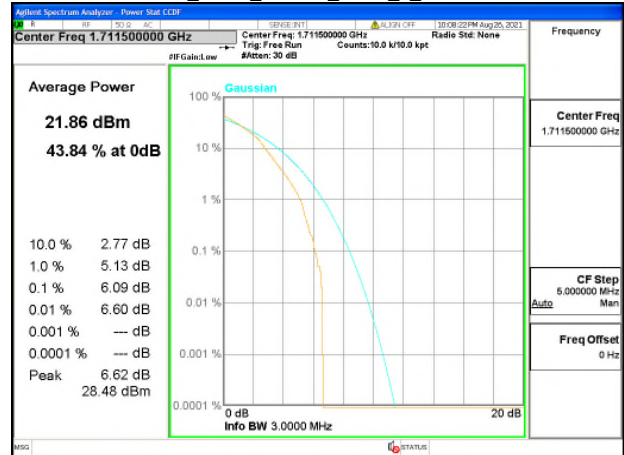
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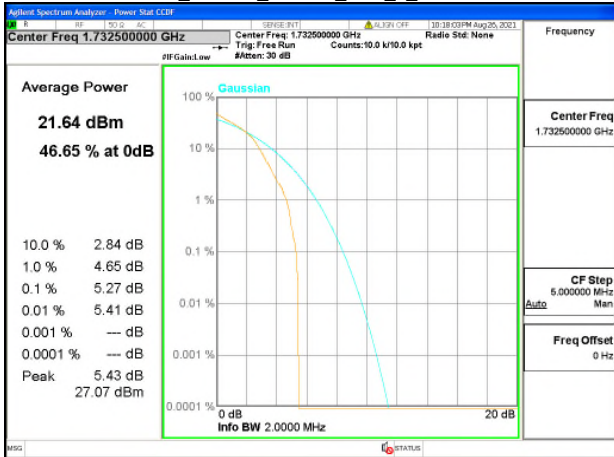
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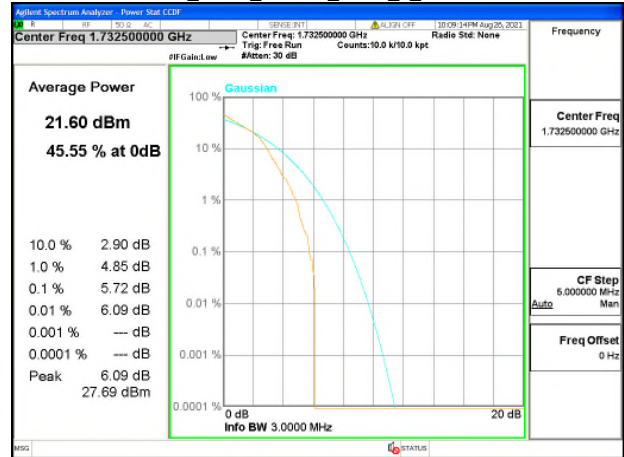
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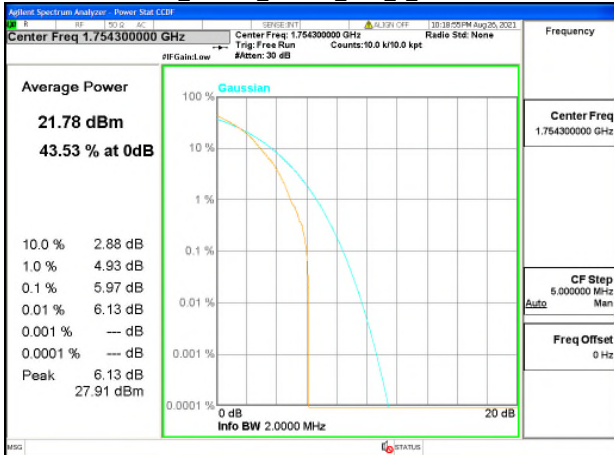
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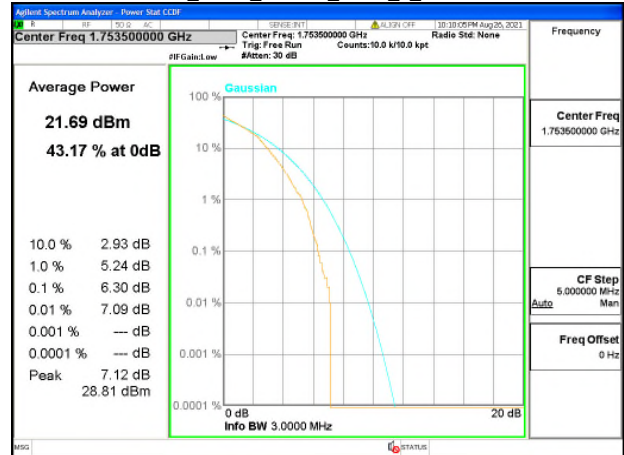
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Band4_1.4MHz_16QAM_RB6_0_CH20393



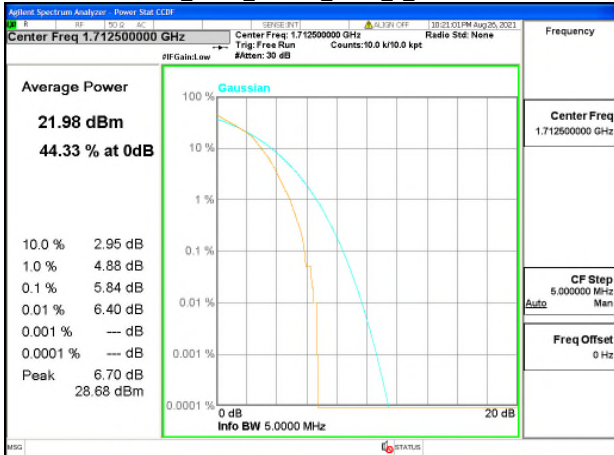
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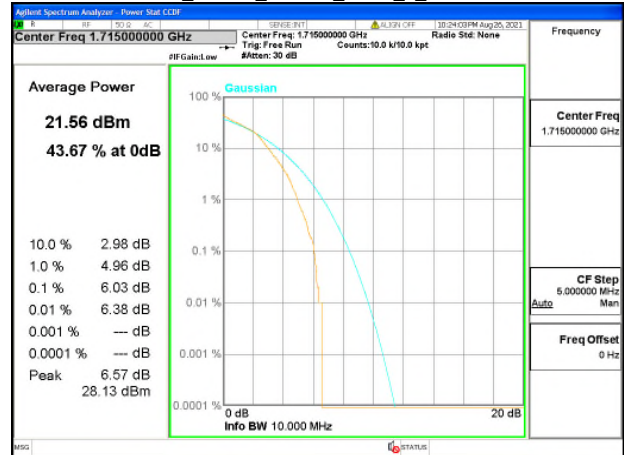
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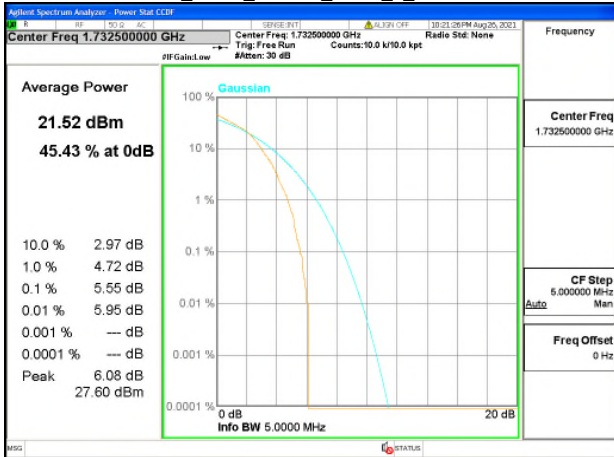
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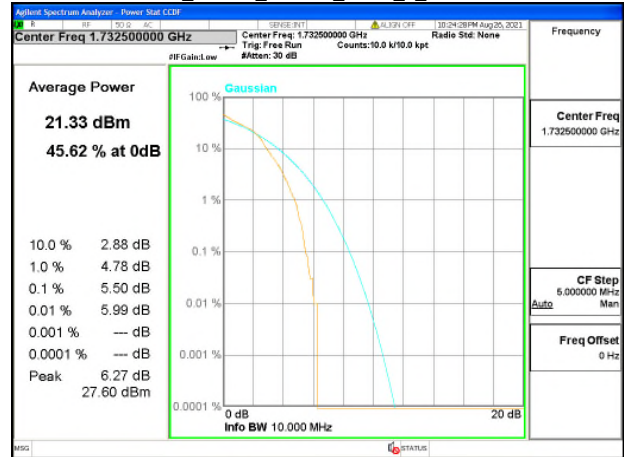
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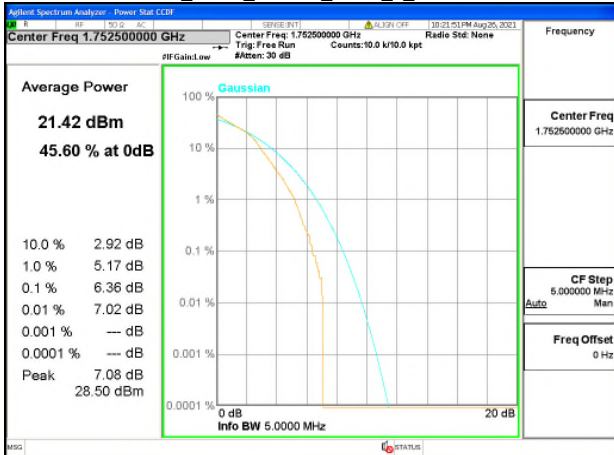
Band4_5MHz_16QAM_RB25_0_CH20175



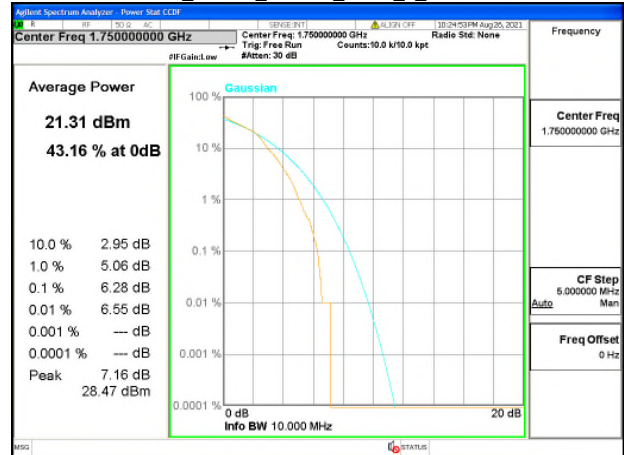
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Band4_5MHz_16QAM_RB25_0_CH20375



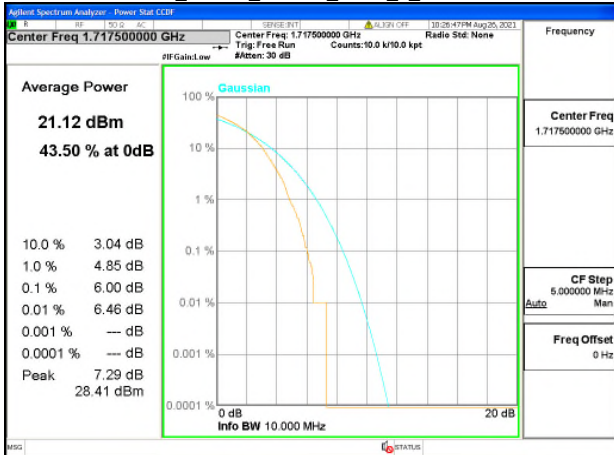
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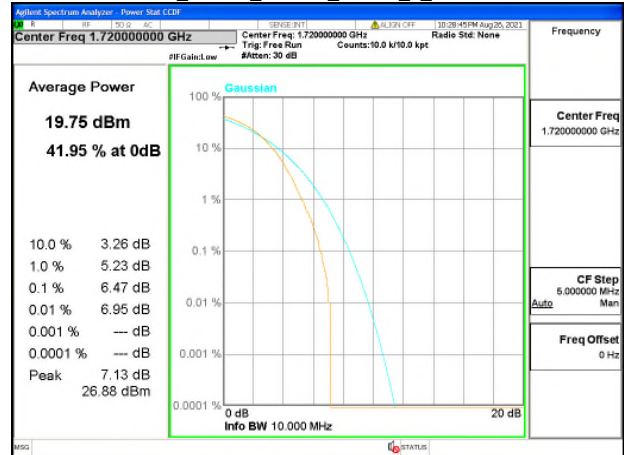
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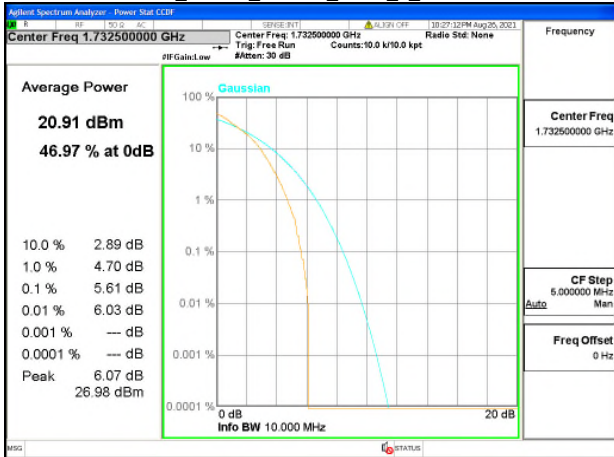
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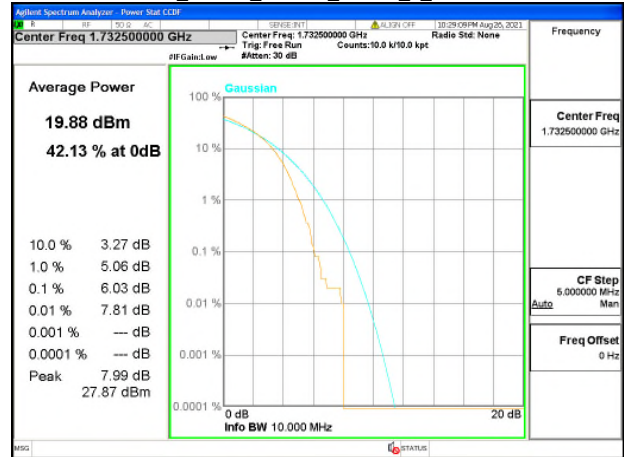
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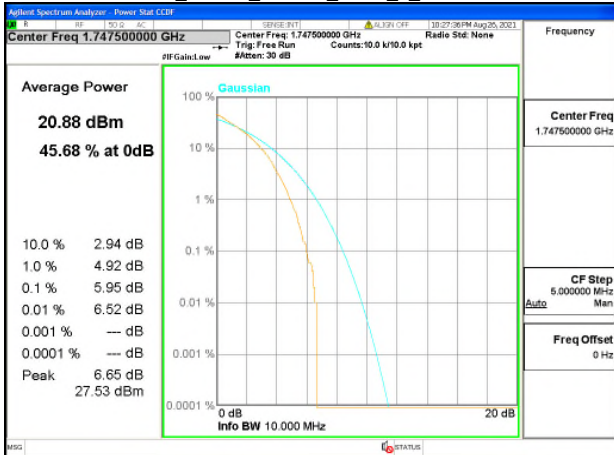
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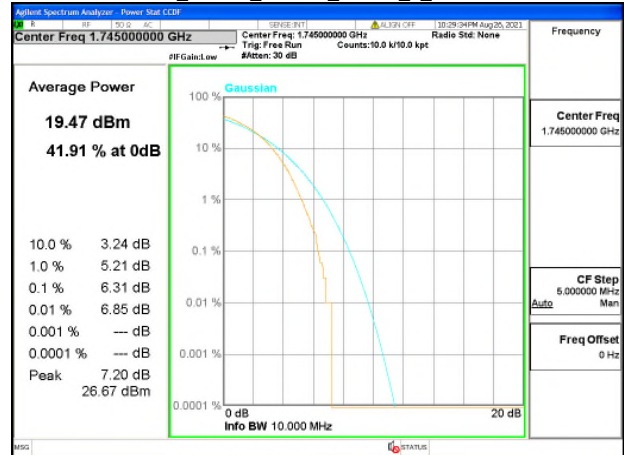
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Band4_15MHz_16QAM_RB75_0_CH20325



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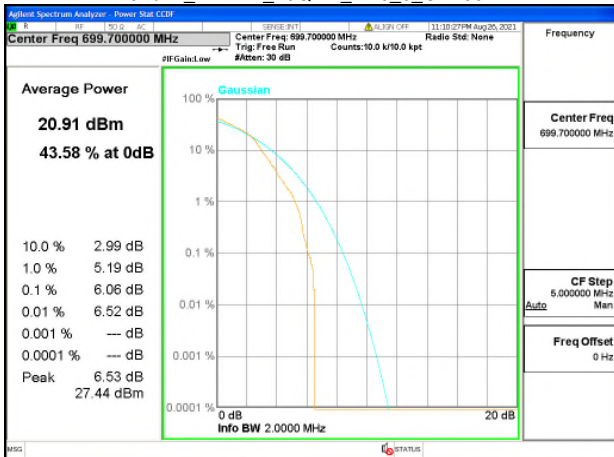


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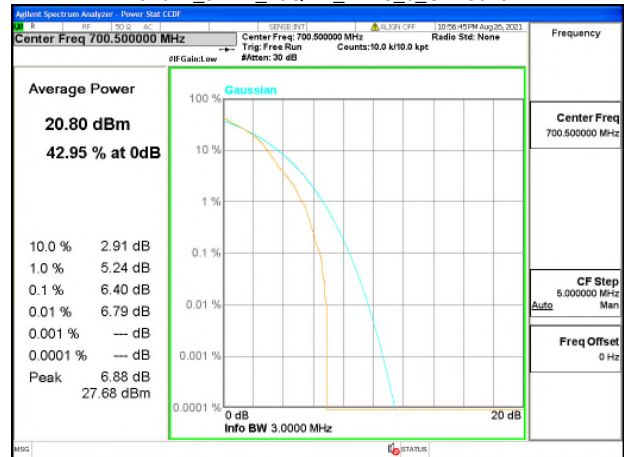
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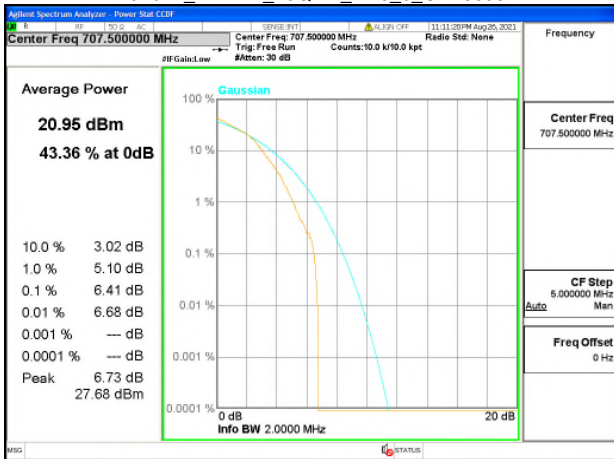
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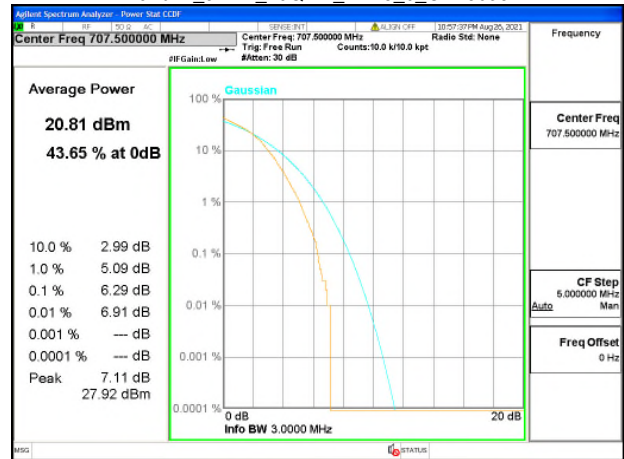
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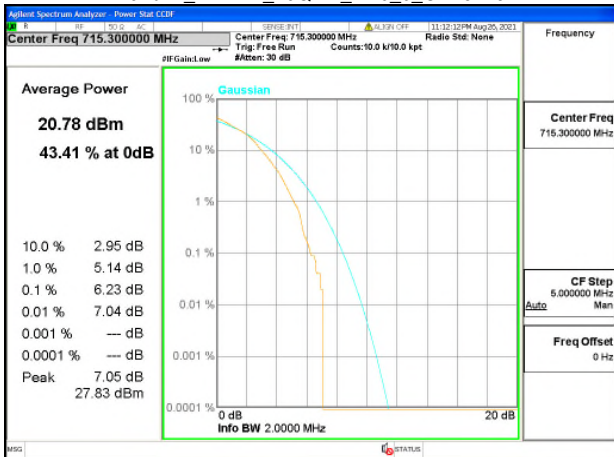
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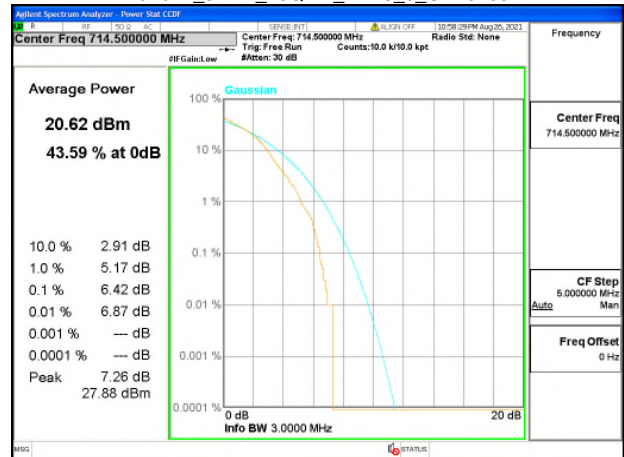
Band12 3MHz 16QAM_RB15_0_CH23095



Band12 1.4MHz 16QAM_RB6_0_CH23173



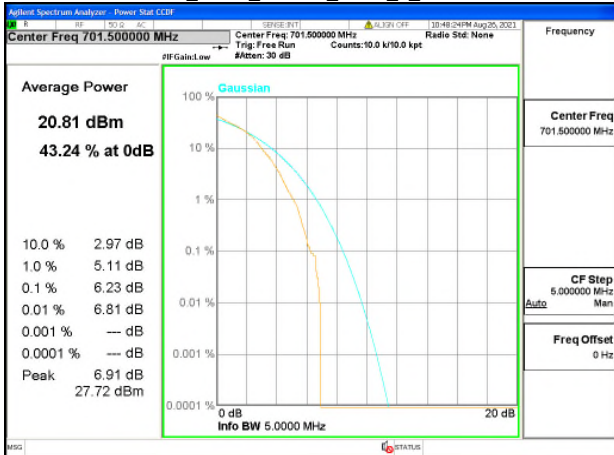
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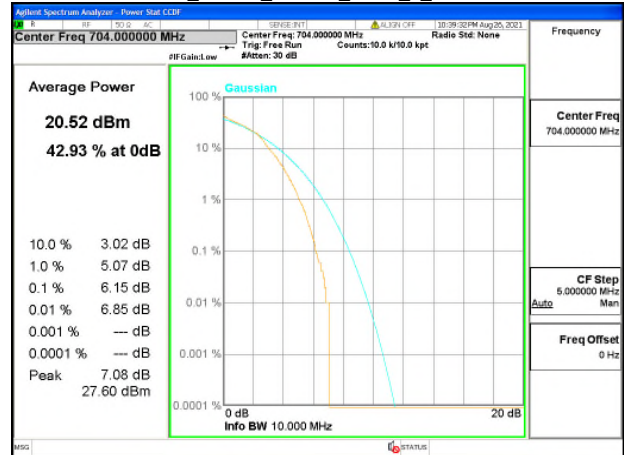
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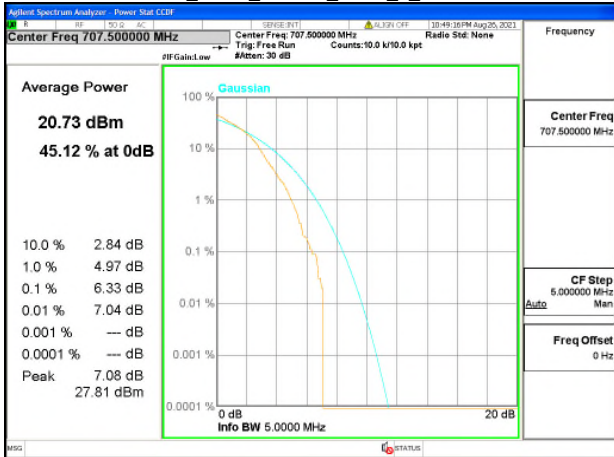
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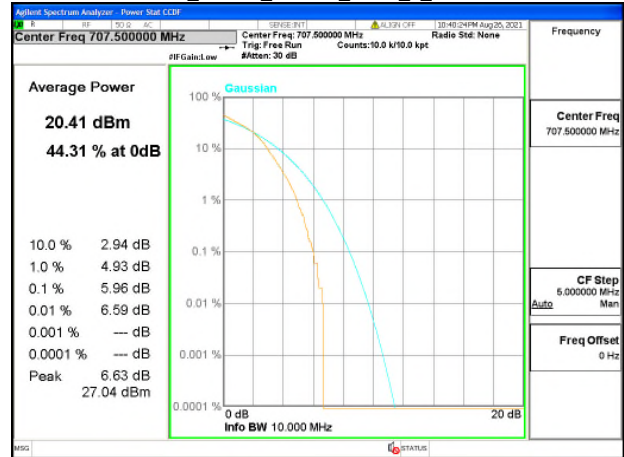
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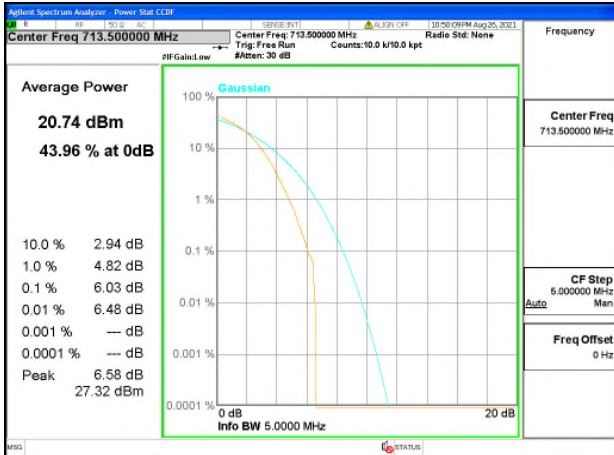
Band12_5MHz_16QAM_RB25_0_CH23095



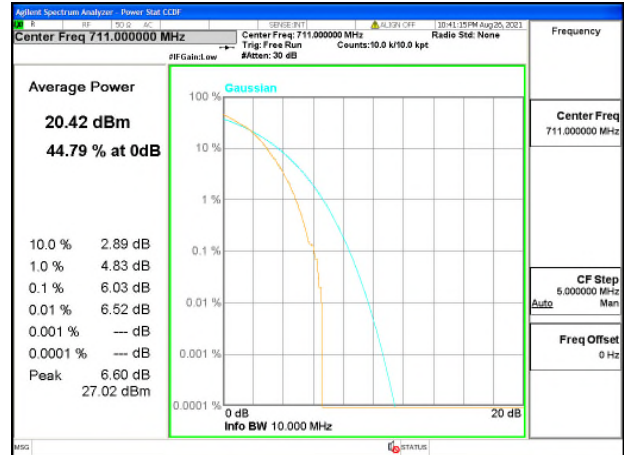
Band12_10MHz_16QAM_RB50_0_CH23095



Band12_5MHz_16QAM_RB25_0_CH23155



Band12_10MHz_16QAM_RB50_0_CH23130



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~ End of Report ~

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