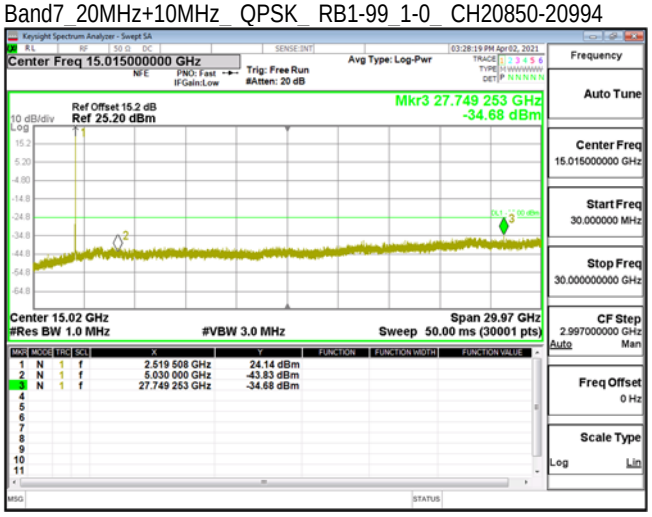
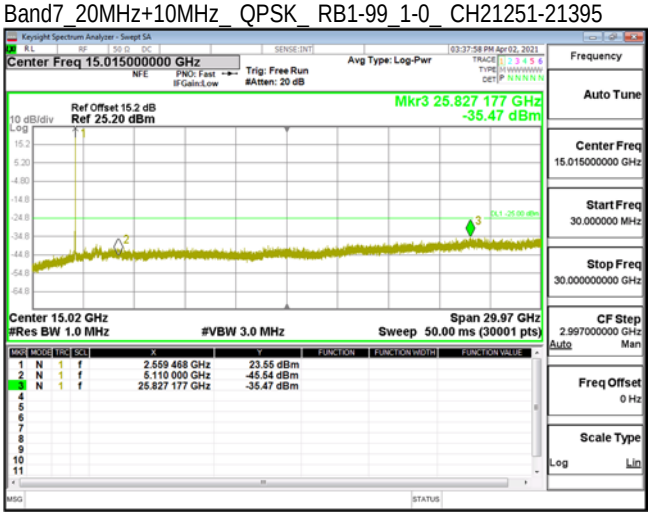
Spurious Emission

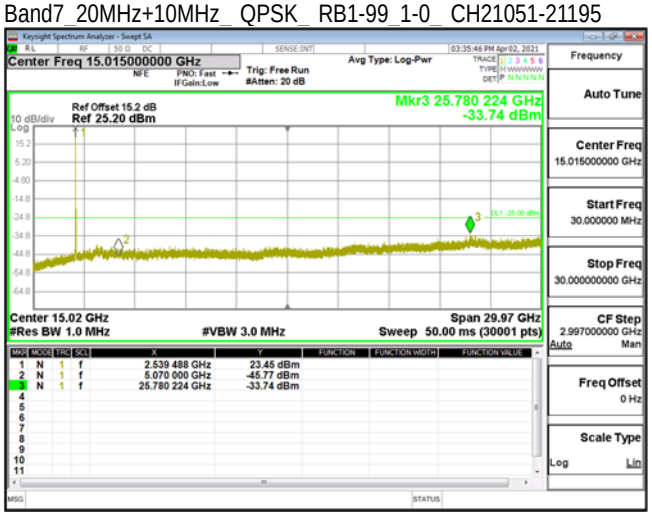
Band7_20MHz+10MHz_ QPSK_ RB1-99_1-0_ CH20850-20994



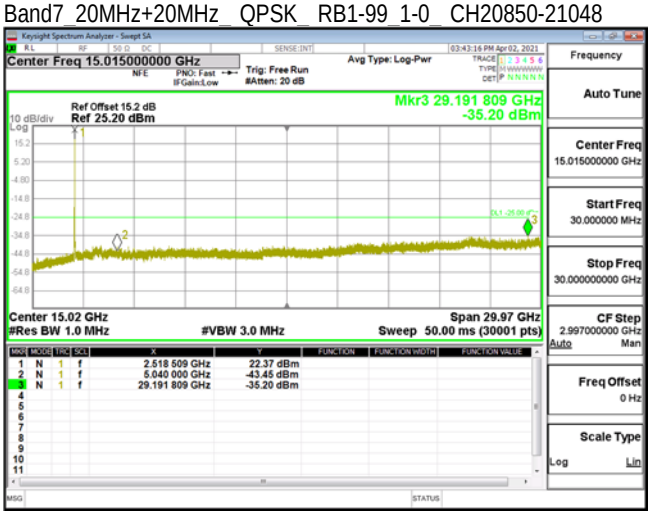
Band7_20MHz+10MHz_ QPSK_ RB1-99_1-0_ CH21251-21395



Band7_20MHz+10MHz_ QPSK_ RB1-99_1-0_ CH21051-21195



Band7_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH20850-21048



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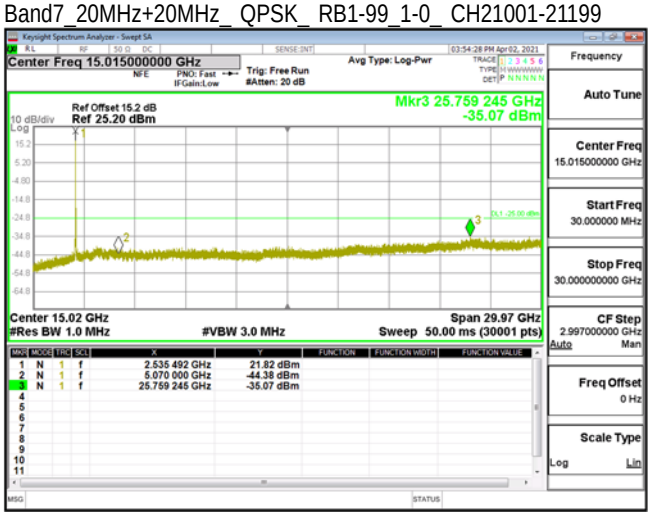
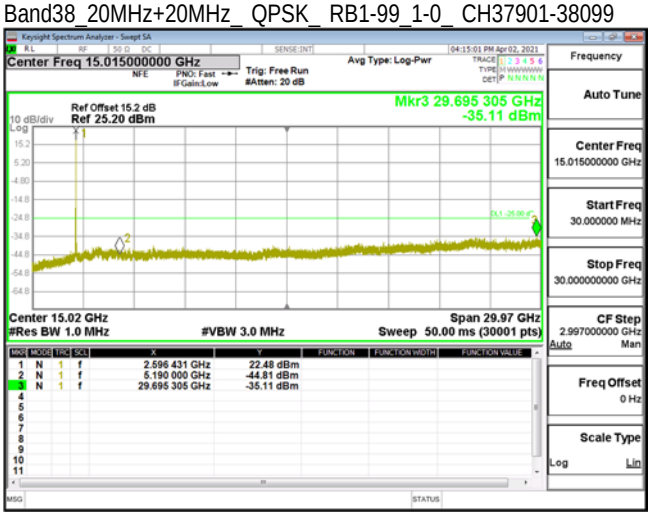
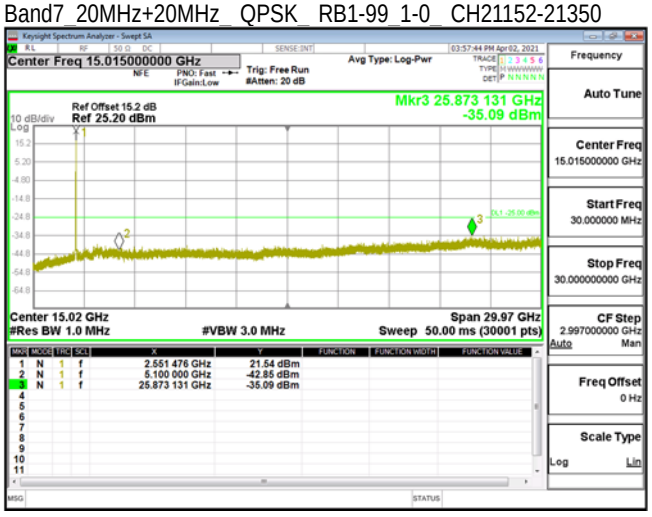
Band7_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH21001-21199



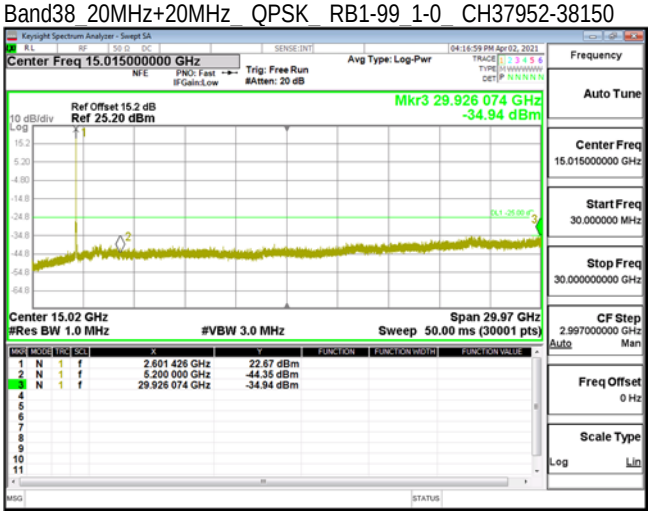
Band38_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH37901-38099



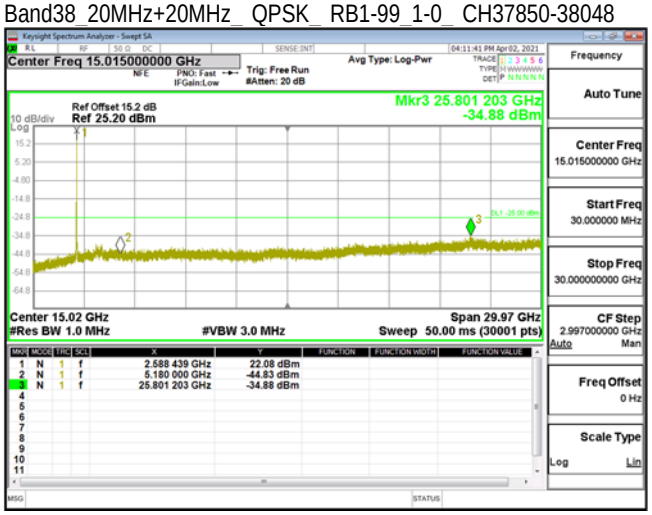
Band7_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH21152-21350



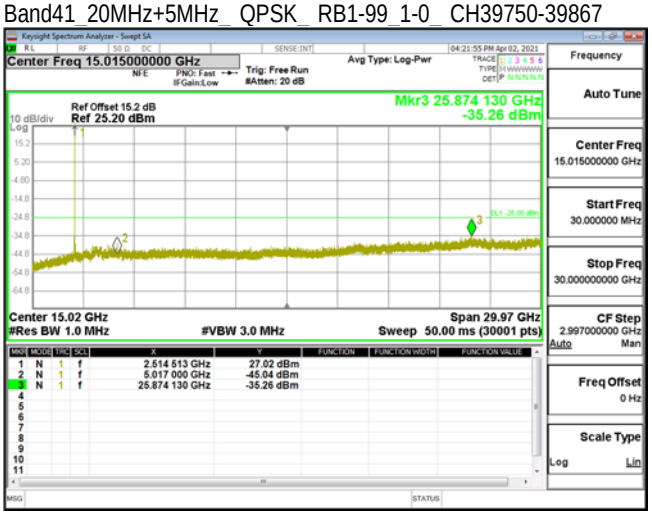
Band38_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH37952-38150



Band38_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH37850-38048



Band41_20MHz+5MHz_ QPSK_ RB1-99_1-0_ CH39750-39867



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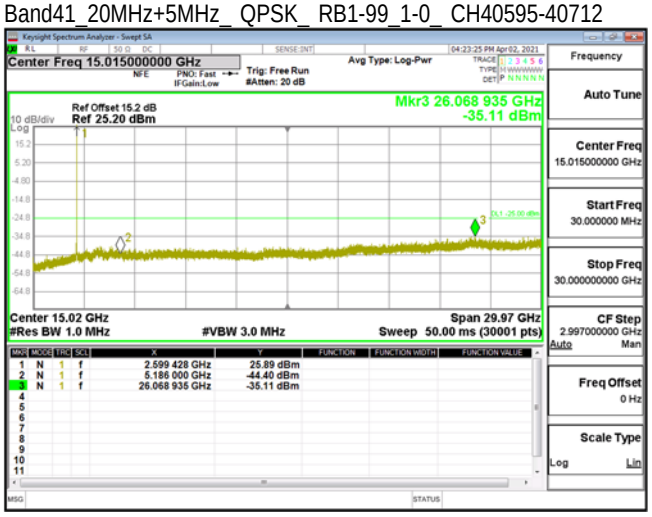
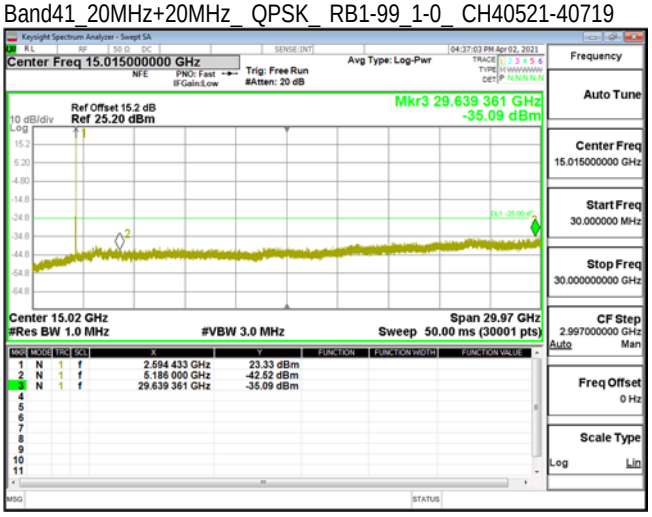
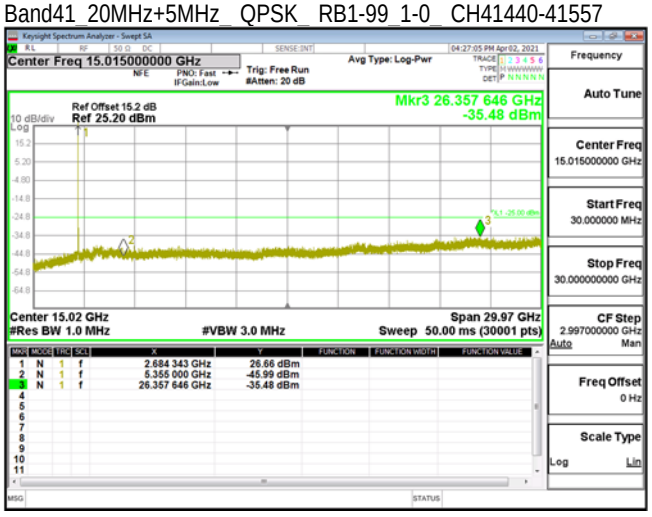
Band41_20MHz+5MHz_ QPSK_ RB1-99_1-0_ CH40595-40712



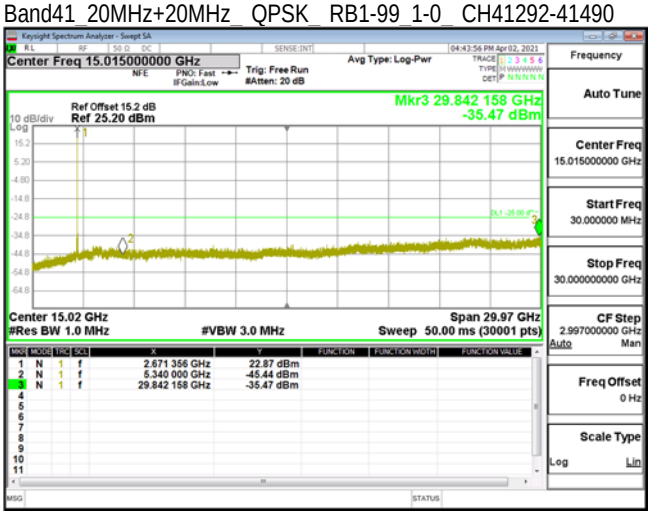
Band41_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH40521-40719



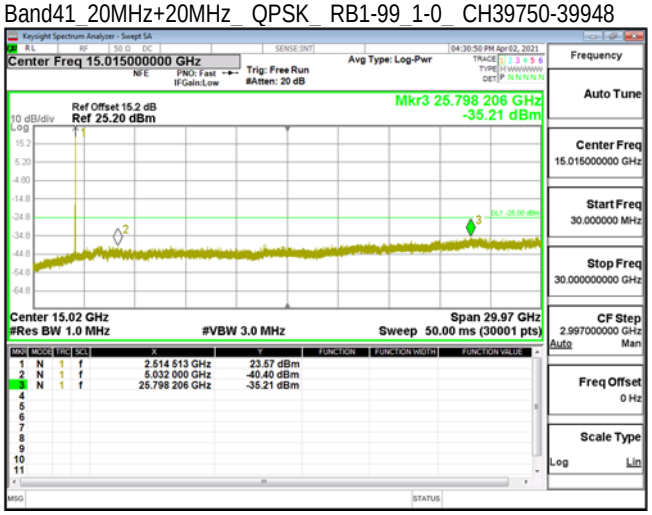
Band41_20MHz+5MHz_ QPSK_ RB1-99_1-0_ CH41440-41557



Band41_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH41292-41490



Band41_20MHz+20MHz_ QPSK_ RB1-99_1-0_ CH39750-39948



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,
FCC§27.53(h)
RSS-199 §4.5
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(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.
Equipment shall comply with the following unwanted emission limits:
for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

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40 + 10 log10 p from the channel edges to 5 MHz away

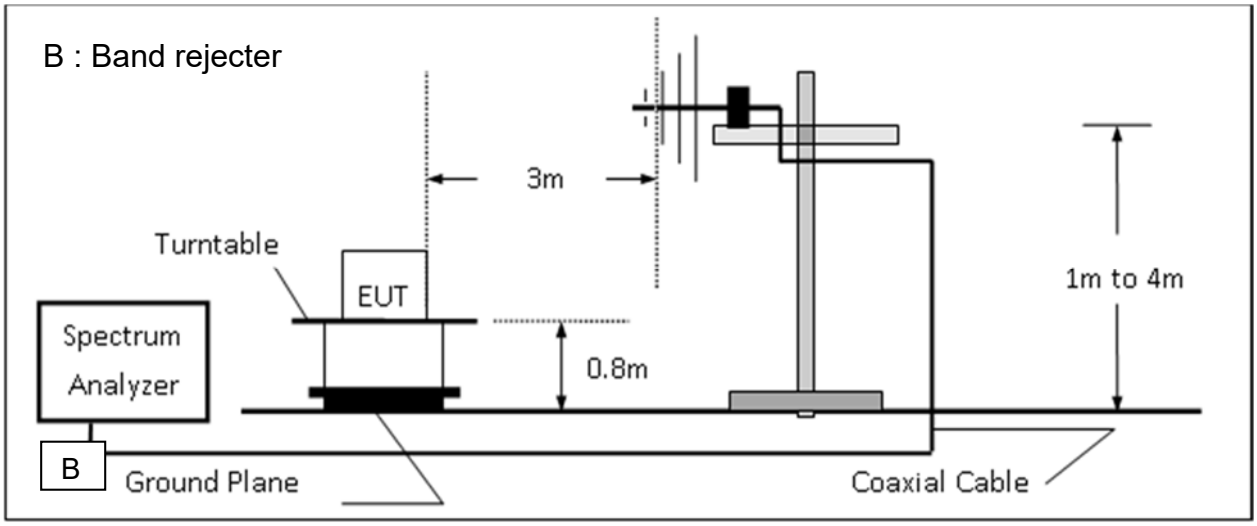
43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

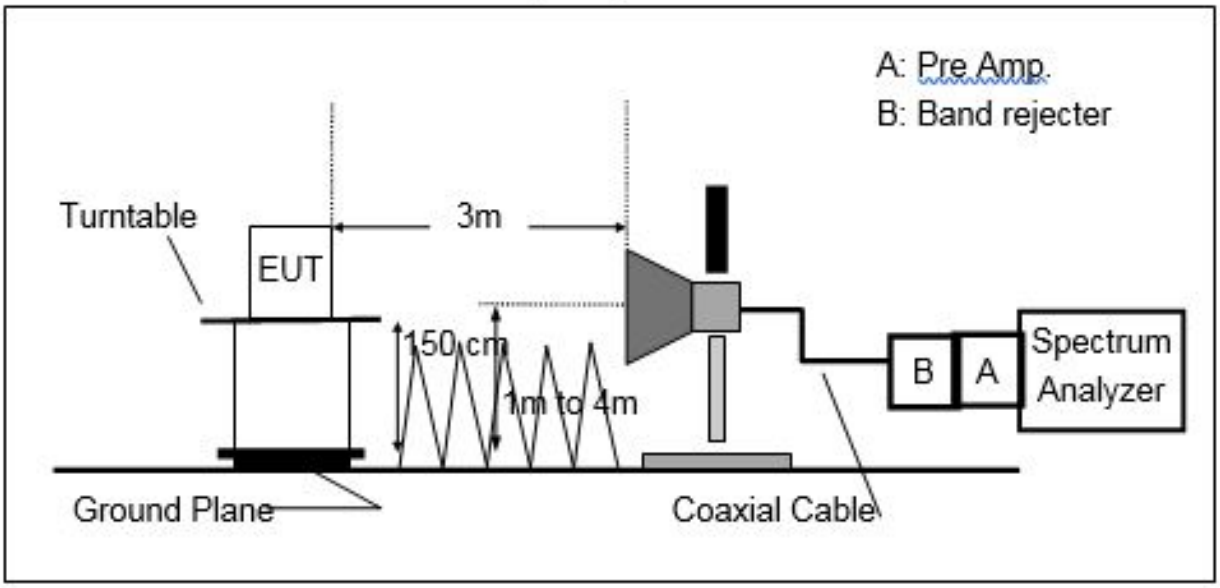
In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.
In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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.
ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)
EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

9.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Bi-log Antenna	SCHWAZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWAZBECK	BBHA9120D	603	04/29/2020	04/28/2021
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/30/2020	07/29/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021

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High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	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

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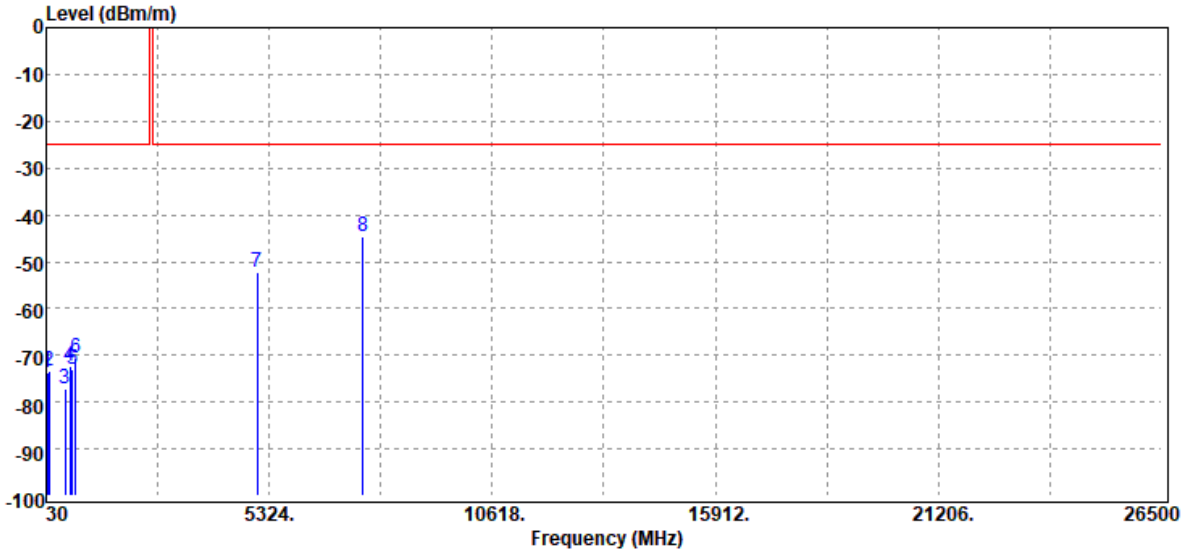
9.5 Measurement Result:

Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH Low	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2510_2524.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-73.71	-63.66	-9.30	-0.75	-25.00	-48.71
100.81	-73.35	-71.50	-0.83	-1.02	-25.00	-48.35
476.20	-77.19	-79.03	4.21	-2.37	-25.00	-52.19
589.69	-72.45	-73.60	3.80	-2.65	-25.00	-47.45
652.74	-72.90	-74.09	3.62	-2.43	-25.00	-47.90
736.16	-70.44	-70.87	2.97	-2.54	-25.00	-45.44
5034.40	-52.37	-56.97	12.22	-7.62	-25.00	-27.37
7551.60	-44.71	-46.42	11.10	-9.39	-25.00	-19.71

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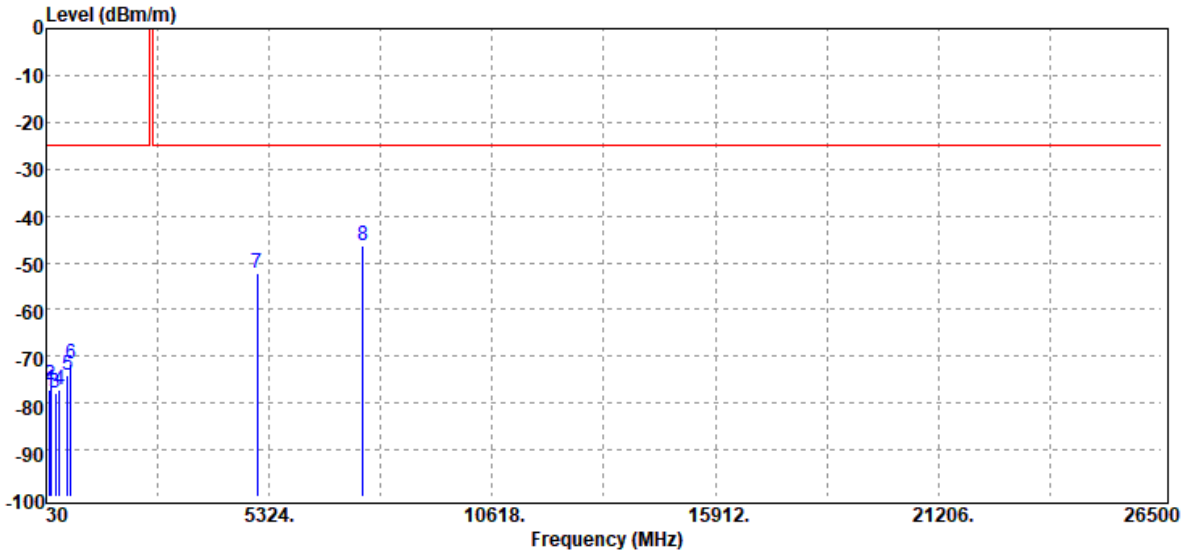
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH Low	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2510_2524.4 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-77.33	-74.77	-1.50	-1.06	-25.00	-52.33
133.79	-76.16	-72.88	-2.05	-1.23	-25.00	-51.16
243.40	-77.83	-80.59	4.37	-1.61	-25.00	-52.83
343.31	-77.17	-79.62	4.39	-1.94	-25.00	-52.17
541.19	-73.88	-75.91	4.38	-2.35	-25.00	-48.88
609.09	-71.75	-72.74	3.51	-2.52	-25.00	-46.75
5034.40	-52.24	-56.84	12.22	-7.62	-25.00	-27.24
7551.60	-46.41	-48.12	11.10	-9.39	-25.00	-21.41

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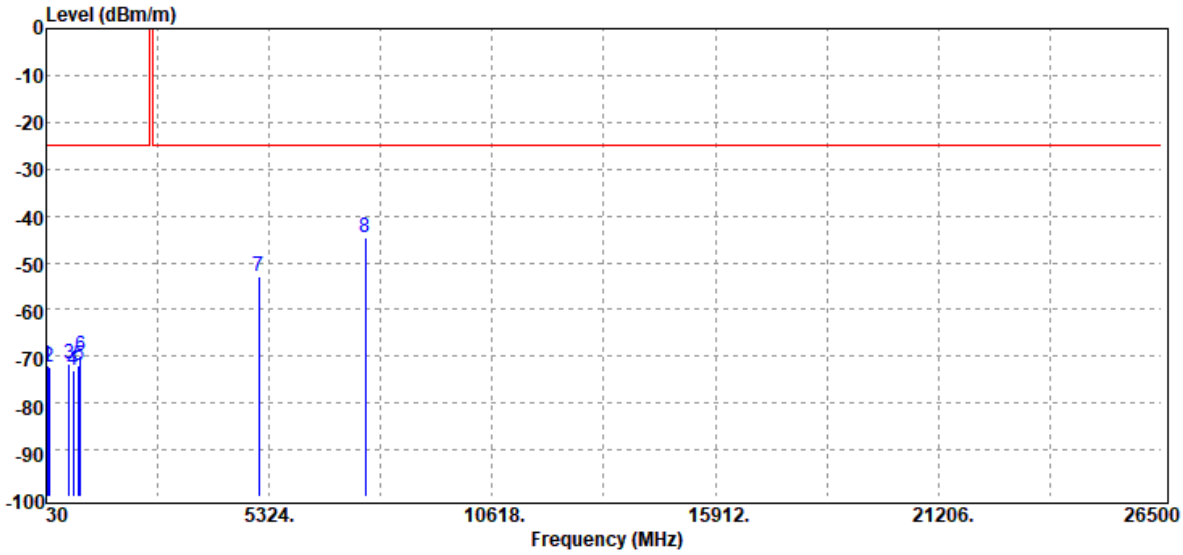
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH Mid	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2530.1_2544.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-72.08	-62.03	-9.30	-0.75	-25.00	-47.08
100.81	-72.24	-70.39	-0.83	-1.02	-25.00	-47.24
580.96	-71.75	-72.96	3.92	-2.71	-25.00	-46.75
668.26	-72.89	-73.55	3.71	-3.05	-25.00	-47.89
803.09	-71.94	-72.97	4.14	-3.11	-25.00	-46.94
847.71	-69.82	-71.91	4.69	-2.60	-25.00	-44.82
5074.60	-53.02	-57.27	12.10	-7.85	-25.00	-28.02
7611.90	-44.62	-46.20	11.22	-9.64	-25.00	-19.62

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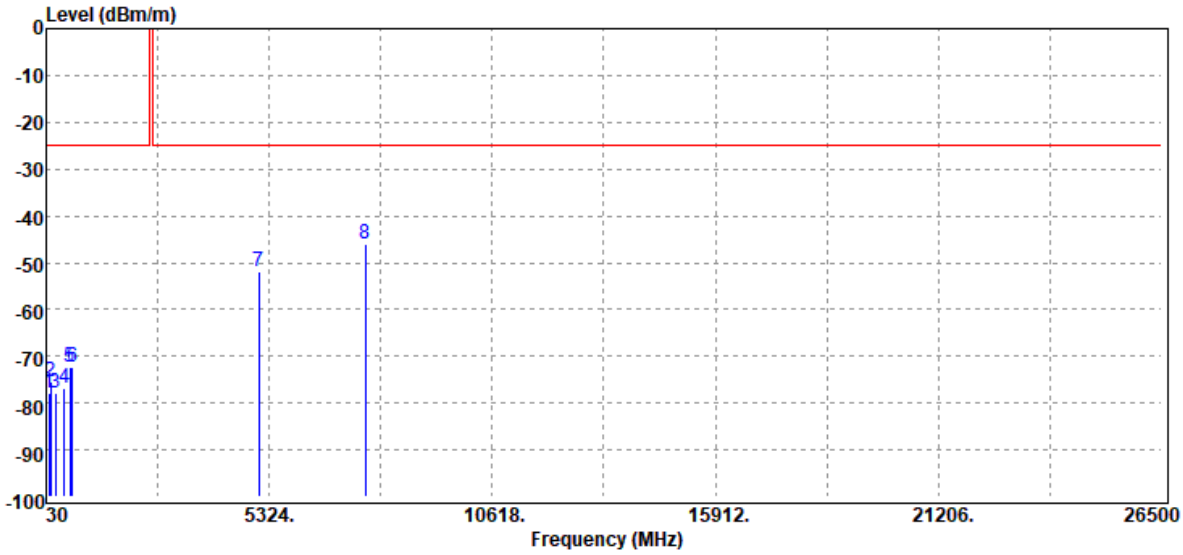
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH Mid	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2530.1_2544.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-77.88	-76.08	-0.79	-1.01	-25.00	-52.88
133.79	-75.54	-72.26	-2.05	-1.23	-25.00	-50.54
246.31	-77.71	-80.47	4.36	-1.60	-25.00	-52.71
458.74	-76.74	-78.53	4.14	-2.35	-25.00	-51.74
590.66	-72.15	-73.29	3.79	-2.65	-25.00	-47.15
647.89	-72.42	-73.64	3.61	-2.39	-25.00	-47.42
5074.60	-51.83	-56.08	12.10	-7.85	-25.00	-26.83
7611.90	-45.97	-47.55	11.22	-9.64	-25.00	-20.97

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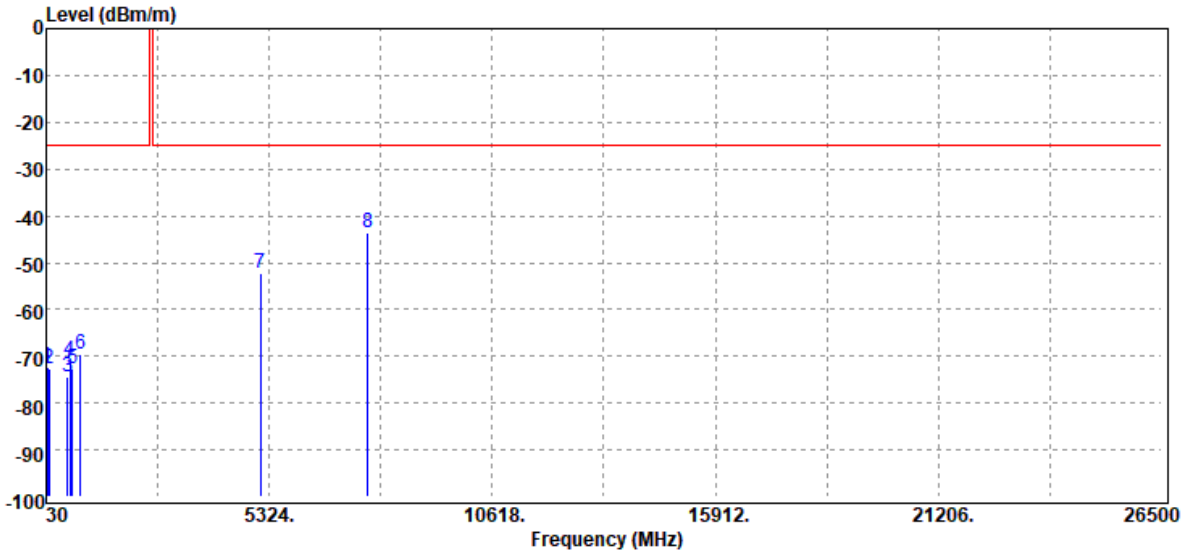
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH High	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2550.1_2564.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-72.35	-62.02	-9.60	-0.73	-25.00	-47.35
100.81	-72.76	-70.91	-0.83	-1.02	-25.00	-47.76
529.55	-74.30	-76.48	4.17	-1.99	-25.00	-49.30
604.24	-71.10	-72.14	3.62	-2.58	-25.00	-46.10
657.59	-72.59	-73.84	3.64	-2.39	-25.00	-47.59
835.10	-69.43	-71.05	4.61	-2.99	-25.00	-44.43
5114.60	-52.13	-56.25	12.10	-7.98	-25.00	-27.13
7671.90	-43.65	-45.19	11.39	-9.85	-25.00	-18.65

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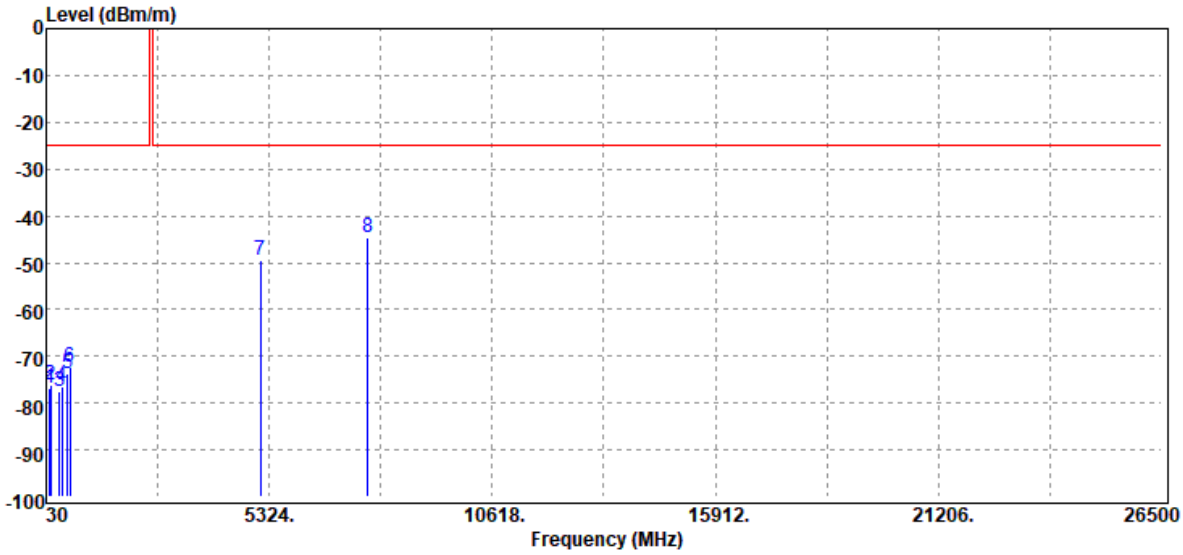
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 7C	Test Date	:2021-04-06
Test Mode	:Tx CH High	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2550.1_2564.5 MHz	Engineer	:Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-76.67	-73.85	-1.73	-1.09	-25.00	-51.67
131.85	-76.02	-72.73	-2.09	-1.20	-25.00	-51.02
348.16	-77.55	-80.06	4.52	-2.01	-25.00	-52.55
401.51	-76.39	-78.62	4.32	-2.09	-25.00	-51.39
546.04	-73.62	-75.51	4.20	-2.31	-25.00	-48.62
604.24	-72.27	-73.31	3.62	-2.58	-25.00	-47.27
5114.60	-49.39	-53.51	12.10	-7.98	-25.00	-24.39
7671.90	-44.70	-46.24	11.39	-9.85	-25.00	-19.70

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH Low	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2580_2599.8 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-73.47	-63.42	-9.30	-0.75	-25.00	-48.47
100.81	-73.34	-71.49	-0.83	-1.02	-25.00	-48.34
482.99	-76.81	-78.69	4.26	-2.38	-25.00	-51.81
584.84	-73.10	-74.25	3.83	-2.68	-25.00	-48.10
715.79	-73.44	-74.15	3.48	-2.77	-25.00	-48.44
829.28	-70.44	-72.08	4.54	-2.90	-25.00	-45.44
5179.80	-49.01	-53.39	12.28	-7.90	-25.00	-24.01
7769.70	-45.24	-46.33	11.50	-10.41	-25.00	-20.24

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH Low	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2580_2599.8 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-77.34	-75.01	-1.30	-1.03	-25.00	-52.34
133.79	-75.77	-72.49	-2.05	-1.23	-25.00	-50.77
391.81	-76.98	-79.29	4.37	-2.06	-25.00	-51.98
523.73	-74.83	-76.87	4.16	-2.12	-25.00	-49.83
595.51	-72.61	-73.72	3.76	-2.65	-25.00	-47.61
735.19	-73.65	-74.08	3.00	-2.57	-25.00	-48.65
5179.80	-47.93	-52.31	12.28	-7.90	-25.00	-22.93
7769.70	-47.80	-48.89	11.50	-10.41	-25.00	-22.80

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH Mid	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2585.1_2604.9 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-74.16	-64.11	-9.30	-0.75	-25.00	-49.16
102.75	-73.99	-71.88	-1.08	-1.03	-25.00	-48.99
356.89	-75.92	-78.44	4.49	-1.97	-25.00	-50.92
434.49	-76.62	-78.47	3.95	-2.10	-25.00	-51.62
558.65	-73.89	-75.57	4.25	-2.57	-25.00	-48.89
647.89	-73.31	-74.53	3.61	-2.39	-25.00	-48.31
5190.00	-50.65	-55.10	12.34	-7.89	-25.00	-25.65
7785.00	-49.12	-50.11	11.50	-10.51	-25.00	-24.12

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH Mid	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2585.1_2604.9 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-76.59	-74.79	-0.79	-1.01	-25.00	-51.59
131.85	-76.24	-72.95	-2.09	-1.20	-25.00	-51.24
410.24	-77.24	-79.83	4.43	-1.84	-25.00	-52.24
513.06	-73.37	-75.40	4.12	-2.09	-25.00	-48.37
677.96	-72.44	-73.37	3.84	-2.91	-25.00	-47.44
799.21	-71.24	-72.13	4.02	-3.13	-25.00	-46.24
5190.00	-50.90	-55.35	12.34	-7.89	-25.00	-25.90
7785.00	-48.73	-49.72	11.50	-10.51	-25.00	-23.73

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH High	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2590.2_2610 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-72.83	-62.50	-9.60	-0.73	-25.00	-47.83
100.81	-72.34	-70.49	-0.83	-1.02	-25.00	-47.34
439.34	-76.52	-78.36	4.04	-2.20	-25.00	-51.52
513.06	-74.22	-76.25	4.12	-2.09	-25.00	-49.22
592.60	-71.93	-73.06	3.78	-2.65	-25.00	-46.93
668.26	-72.69	-73.35	3.71	-3.05	-25.00	-47.69
5200.20	-50.16	-54.68	12.40	-7.88	-25.00	-25.16
7800.30	-48.87	-49.76	11.50	-10.61	-25.00	-23.87

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Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 38C	Test Date	:2021-04-06
Test Mode	:Tx CH High	Temp./Humi.	:23.0/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2590.2_2610 MHz	Engineer	:Neo Tsai

Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-77.35	-74.53	-1.73	-1.09	-25.00	-52.35
139.61	-75.96	-72.62	-2.02	-1.32	-25.00	-50.96
466.50	-76.63	-78.46	4.13	-2.30	-25.00	-51.63
551.86	-73.35	-75.23	4.22	-2.34	-25.00	-48.35
618.79	-72.42	-73.54	3.43	-2.31	-25.00	-47.42
716.76	-73.41	-74.16	3.49	-2.74	-25.00	-48.41
5200.20	-44.87	-49.39	12.40	-7.88	-25.00	-19.87
7800.30	-48.54	-49.43	11.50	-10.61	-25.00	-23.54

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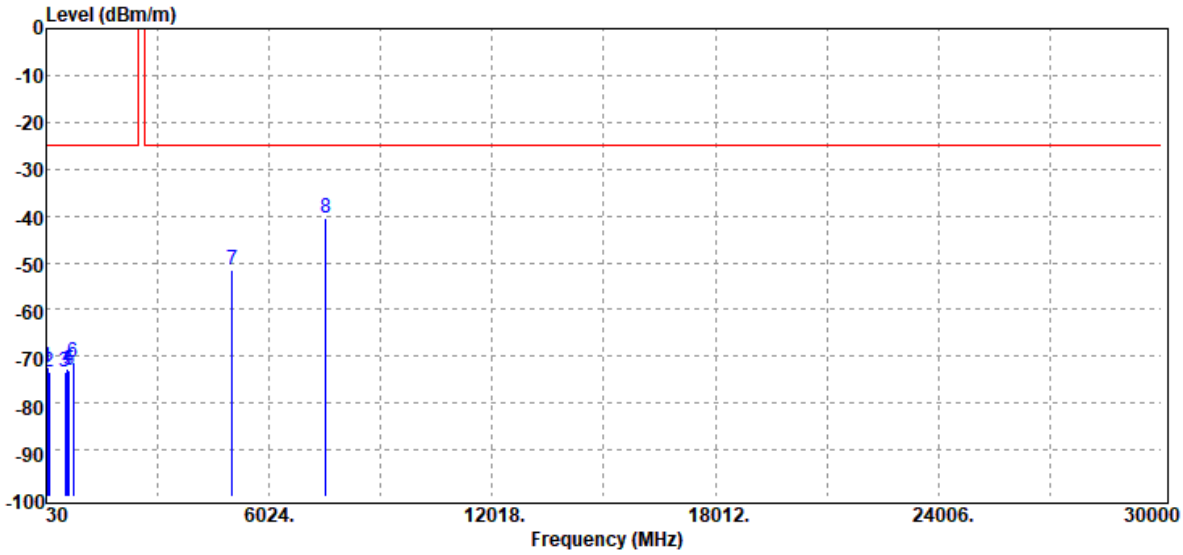
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH Low	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2506_2517.7 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-72.31	-61.98	-9.60	-0.73	-25.00	-47.31
100.81	-73.43	-71.58	-0.83	-1.02	-25.00	-48.43
529.55	-73.35	-75.53	4.17	-1.99	-25.00	-48.35
607.15	-72.69	-73.71	3.56	-2.54	-25.00	-47.69
653.71	-72.93	-74.12	3.61	-2.42	-25.00	-47.93
745.86	-71.21	-71.59	2.83	-2.45	-25.00	-46.21
5023.80	-51.43	-56.19	12.31	-7.55	-25.00	-26.43
7535.70	-40.35	-42.09	11.07	-9.33	-25.00	-15.35

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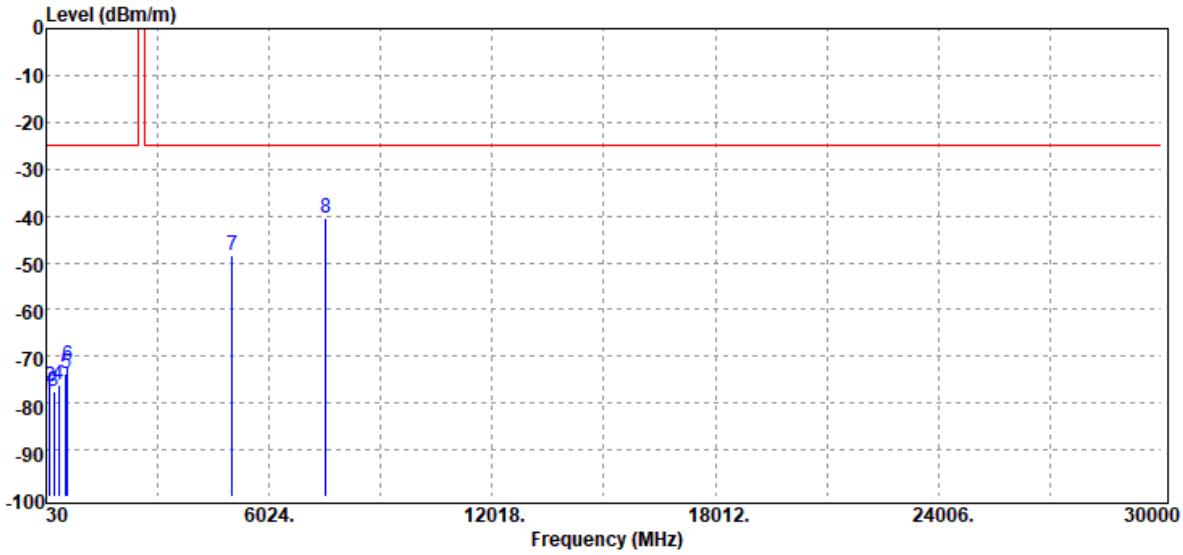
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH Low	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2506_2517.7 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-78.05	-76.25	-0.79	-1.01	-25.00	-53.05
122.15	-76.51	-73.49	-1.88	-1.14	-25.00	-51.51
245.34	-77.42	-80.18	4.36	-1.60	-25.00	-52.42
357.86	-76.04	-78.58	4.50	-1.96	-25.00	-51.04
550.89	-73.55	-75.45	4.20	-2.30	-25.00	-48.55
599.39	-72.12	-73.14	3.66	-2.64	-25.00	-47.12
5023.80	-48.55	-53.31	12.31	-7.55	-25.00	-23.55
7535.70	-40.44	-42.18	11.07	-9.33	-25.00	-15.44

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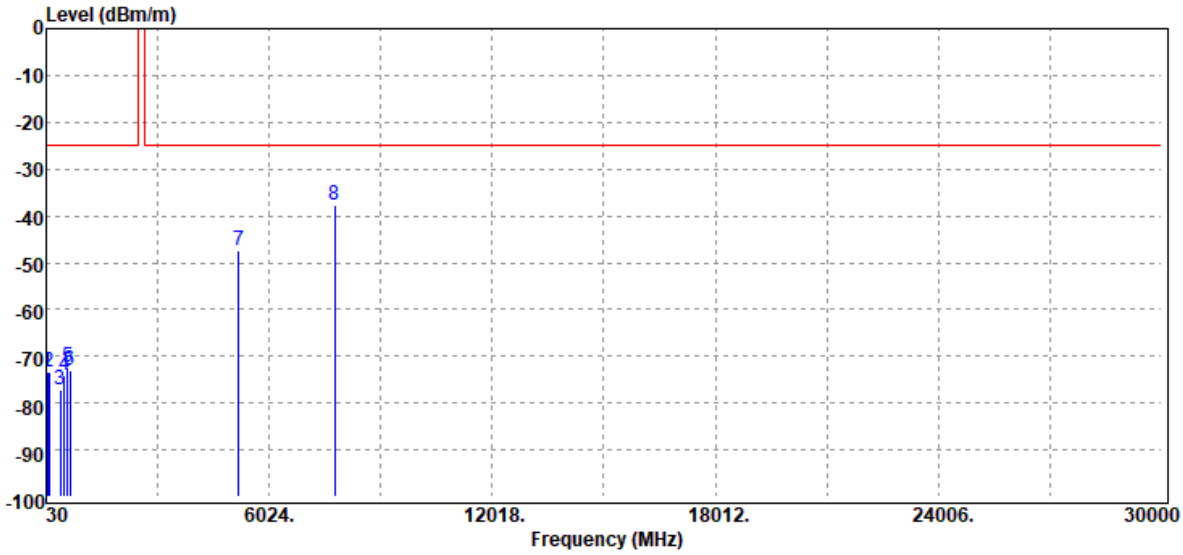
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH Mid	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2590.5_2602.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-73.51	-63.18	-9.60	-0.73	-25.00	-48.51
102.75	-73.25	-71.14	-1.08	-1.03	-25.00	-48.25
418.00	-77.04	-79.44	4.28	-1.88	-25.00	-52.04
527.61	-74.21	-76.35	4.17	-2.03	-25.00	-49.21
604.24	-72.15	-73.19	3.62	-2.58	-25.00	-47.15
679.90	-73.00	-73.98	3.83	-2.85	-25.00	-48.00
5192.80	-47.46	-51.94	12.36	-7.88	-25.00	-22.46
7789.20	-37.79	-38.75	11.50	-10.54	-25.00	-12.79

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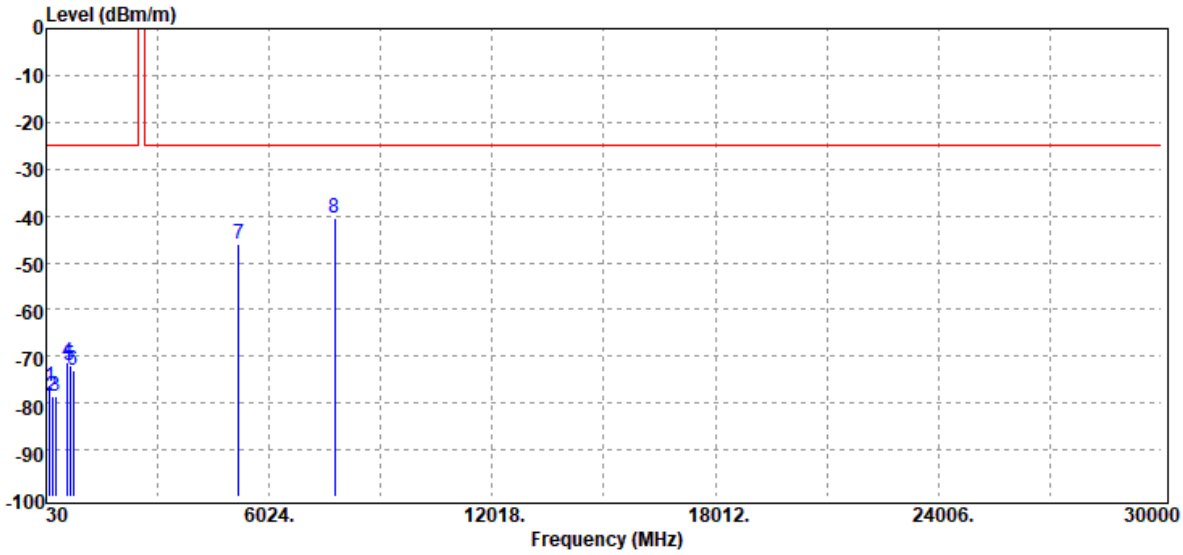
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH Mid	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2590.5_2602.2 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
120.21	-76.59	-73.66	-1.80	-1.13	-25.00	-51.59
192.96	-78.39	-80.65	3.69	-1.43	-25.00	-53.39
277.35	-78.63	-80.94	3.99	-1.68	-25.00	-53.63
600.36	-71.32	-72.32	3.64	-2.64	-25.00	-46.32
673.11	-71.92	-72.64	3.80	-3.08	-25.00	-46.92
762.35	-72.97	-73.41	3.02	-2.58	-25.00	-47.97
5192.80	-46.11	-50.59	12.36	-7.88	-25.00	-21.11
7789.20	-40.32	-41.28	11.50	-10.54	-25.00	-15.32

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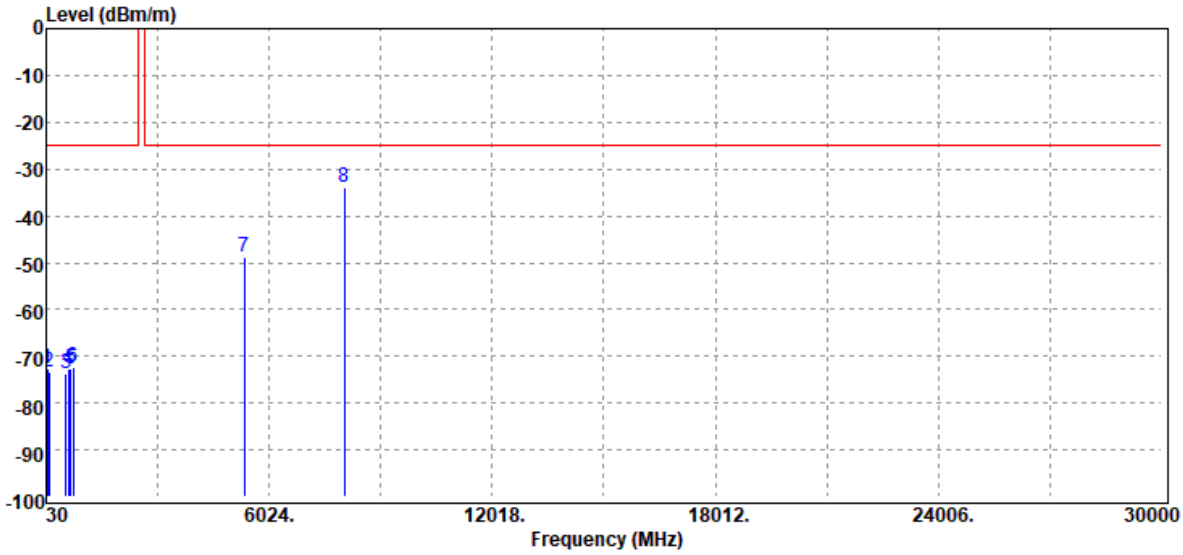
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH High	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2675_2686.7 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-72.61	-62.28	-9.60	-0.73	-25.00	-47.61
100.81	-73.27	-71.42	-0.83	-1.02	-25.00	-48.27
550.89	-73.54	-75.44	4.20	-2.30	-25.00	-48.54
616.85	-72.63	-73.73	3.45	-2.35	-25.00	-47.63
684.75	-72.77	-73.63	3.80	-2.94	-25.00	-47.77
754.59	-72.40	-72.86	2.93	-2.47	-25.00	-47.40
5361.80	-48.89	-52.98	12.95	-8.86	-25.00	-23.89
8042.55	-33.81	-33.94	11.00	-10.87	-25.00	-8.81

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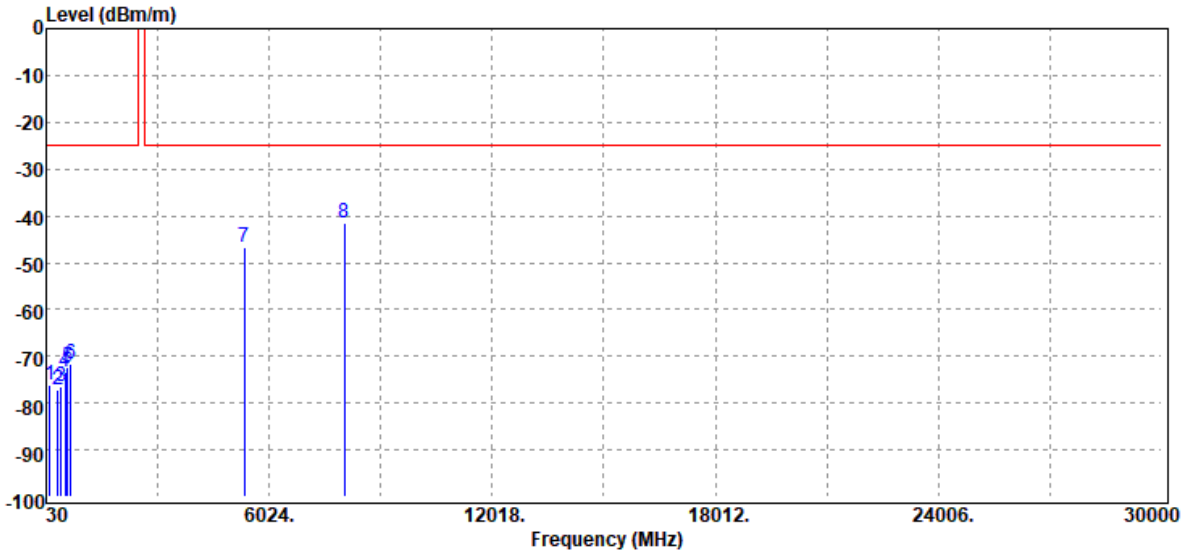
Report Number	:ER/2021/20014	Test Site	:SAC I Chamber
Operation Mode	:LTE 41C	Test Date	:2021-04-09
Test Mode	:Tx CH High	Temp./Humi.	:23.4/60
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2675_2686.7 MHz	Engineer	:GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-76.03	-72.75	-2.05	-1.23	-25.00	-51.03
353.01	-77.07	-79.58	4.52	-2.01	-25.00	-52.07
434.49	-76.61	-78.46	3.95	-2.10	-25.00	-51.61
529.55	-73.33	-75.51	4.17	-1.99	-25.00	-48.33
614.91	-72.37	-73.43	3.46	-2.40	-25.00	-47.37
686.69	-71.70	-72.51	3.78	-2.97	-25.00	-46.70
5361.80	-46.79	-50.88	12.95	-8.86	-25.00	-21.79
8042.70	-41.54	-41.67	11.00	-10.87	-25.00	-16.54

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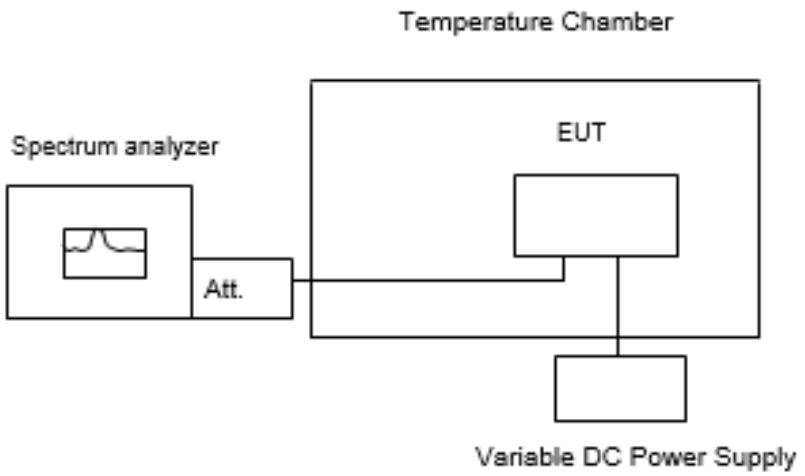
10 FREQUENCY STABILITY MEASUREMENT

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℃. 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.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	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-JSPF412-018	12/16/2020	12/15/2021

10.5 Measurement Result

Note: *The battery is rated 3.87Vdc.*

Reference Freq.:	LTE CAB7 Mid		2535	MHz 20M+15M QPSK
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	2535.000003	3	6337.5
3.87	25	2534.999998	-2	6337.5
3.483	25	2534.999990	-10	6337.5
3.4 (End Point)	25	2535.000006	6	6337.5
Freq. ERROR vs. Temp.				
3.87	-30	2534.999994	-6	6337.5
3.87	-20	2534.999993	-7	6337.5
3.87	-10	2535.000010	10	6337.5
3.87	0	2535.000006	6	6337.5
3.87	10	2534.999994	-6	6337.5
3.87	20	2534.999998	-2	6337.5
3.87	30	2535.000001	1	6337.5
3.87	40	2534.999997	-3	6337.5
3.87	50	2535.000007	7	6337.5

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Reference Freq.:	LTE CA B38 Mid		2595	MHz 20M+20M QPSK
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	2594.999990	-10	6487.5
3.87	25	2594.999993	-7	6487.5
3.483	25	2594.999991	-9	6487.5
3.4 (End Point)	25	2595.000008	8	6487.5
Freq. ERROR vs. Temp.				
3.87	-30	2595.000007	7	6487.5
3.87	-20	2594.999992	-8	6487.5
3.87	-10	2595.000008	8	6487.5
3.87	0	2594.999989	-11	6487.5
3.87	10	2595.000003	3	6487.5
3.87	20	2595.000004	4	6487.5
3.87	30	2594.999991	-9	6487.5
3.87	40	2594.999996	-4	6487.5
3.87	50	2595.000006	6	6487.5

Reference Freq.:	LTE CA B41 Mid		2593	MHz 20M+20M QPSK
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 1.25 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	2592.999992	-8	6482.5
3.87	25	2592.999996	-4	6482.5
3.483	25	2592.999997	-3	6482.5
3.4 (End Point)	25	2593.000007	7	6482.5
Freq. ERROR vs. Temp.				
3.87	-30	2592.999996	-4	6482.5
3.87	-20	2593.000011	11	6482.5
3.87	-10	2592.999999	-1	6482.5
3.87	0	2592.999995	-5	6482.5
3.87	10	2593.000006	6	6482.5
3.87	20	2593.000003	3	6482.5
3.87	30	2592.999993	-7	6482.5
3.87	40	2592.999990	-10	6482.5
3.87	50	2593.000006	6	6482.5

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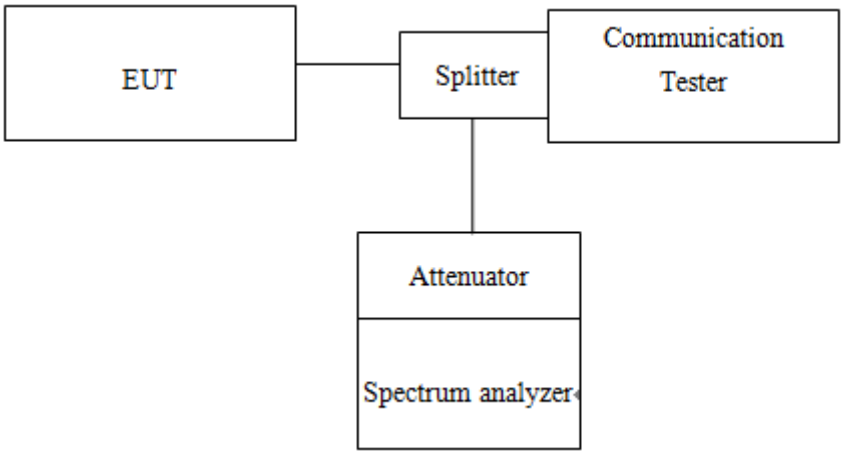
11 PEAK TO AVERAGE RATIO

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 ≥ 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.**
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	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-JSPF412-018	12/16/2020	12/15/2021

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11.5 Measurement Result

LTE BAND 7

Band	Bandwidth	RB Allocation/RB Offset	Freqency (MHz)	PAPR (dB)	
				64QAM	Limit
LTE BAND 7	10MHz + 200MHz	50/0 + 100/0	2535.0	7.05	13
LTE BAND 7	20MHz + 10MHz	100/0 + 50/0	2535.0	6.96	13
LTE BAND 7	15MHz + 15MHz	75/0 + 75/0	2535.0	6.93	13
LTE BAND 7	15MHz + 20MHz	75/0 + 100/0	2535.0	7.41	13
LTE BAND 7	20MHz + 15MHz	100/0 + 75/0	2535.0	7.650	13
LTE BAND 7	20MHz + 20MHz	100/0 + 100/0	2535.0	7.870	13

LTE BAND 38

Band	Bandwidth	RB Allocation/RB Offset	Freqency (MHz)	PAPR (dB)	
				64QAM	Limit
LTE BAND 38	15MHz + 15MHz	75/0 + 75/0	2595.0	6.77	13
LTE BAND 38	20MHz + 20MHz	100/0 + 100/0	2595.0	7.13	13

LTE BAND 41

Band	Bandwidth	RB Allocation/RB Offset	Freqency (MHz)	PAPR (dB)	
				64QAM	Limit
LTE BAND 41	5MHz + 20MHz	25/0 + 100/0	2593.0	8.990	13
LTE BAND 41	20MHz + 5MHz	100/0 + 25/0	2593.0	6.830	13
LTE BAND 41	10MHz + 20MHz	50/0 + 100/0	2593.0	7.250	13
LTE BAND 41	20MHz + 10MHz	100/0 + 50/0	2593.0	9.240	13
LTE BAND 41	15MHz + 15MHz	75/0 + 75/0	2593.0	7.980	13
LTE BAND 41	15MHz + 20MHz	75/0 + 100/0	2593.0	7.930	13
LTE BAND 41	20MHz + 15MHz	100/0 + 75/0	2593.0	8.070	13
LTE BAND 41	20MHz + 20MHz	100/0 + 100/0	2593.0	10.470	13

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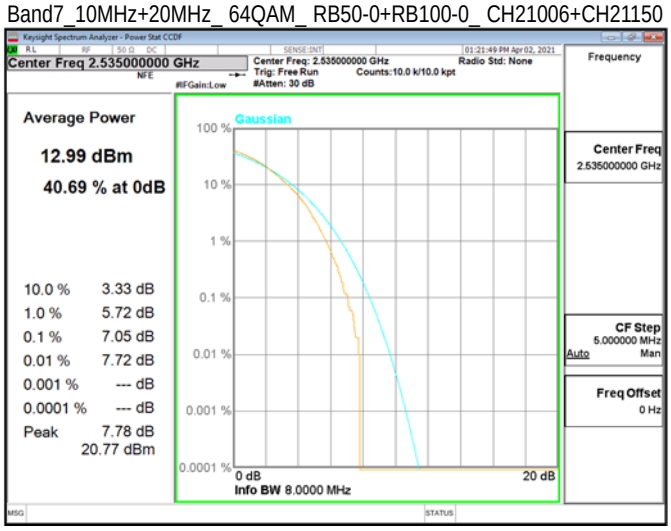
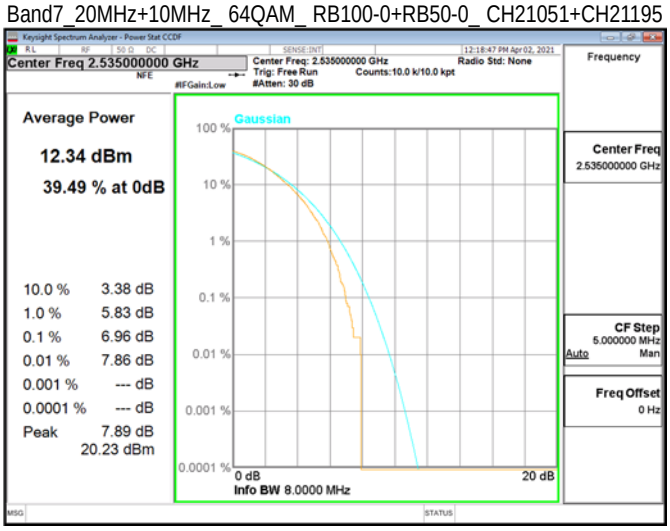
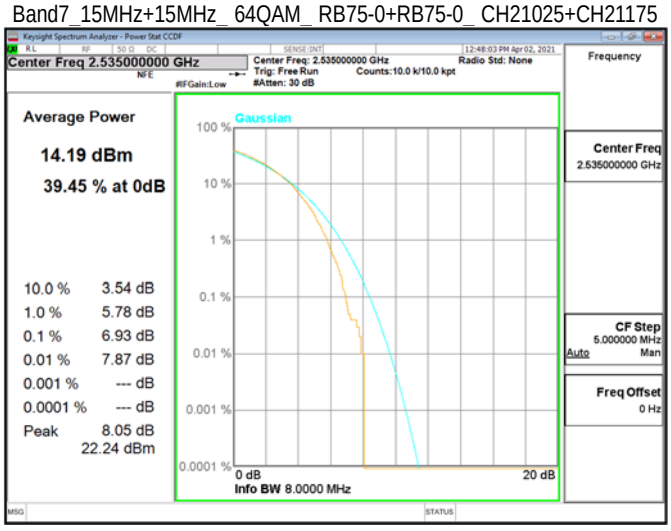
Band7_10MHz+20MHz_ 64QAM_ RB50-0+RB100-0_ CH21006+CH21150



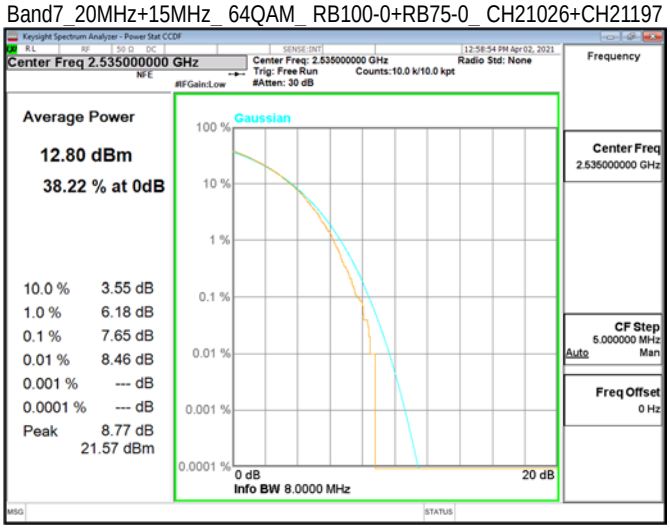
Band7_20MHz+10MHz_ 64QAM_ RB100-0+RB50-0_ CH21051+CH21195



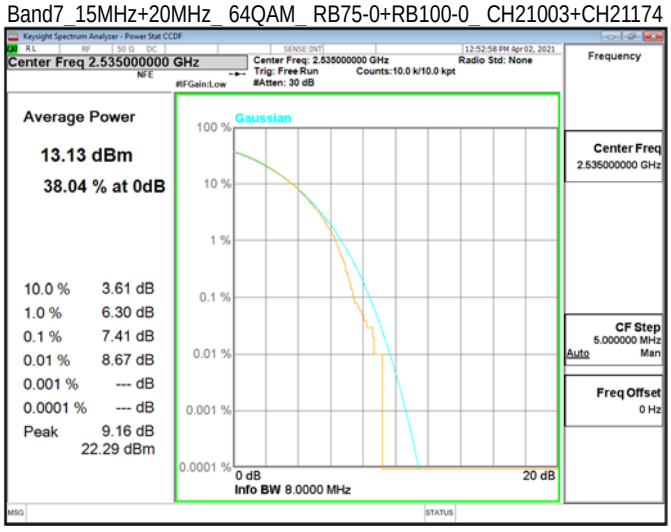
Band7_15MHz+15MHz_ 64QAM_ RB75-0+RB75-0_ CH21025+CH21175



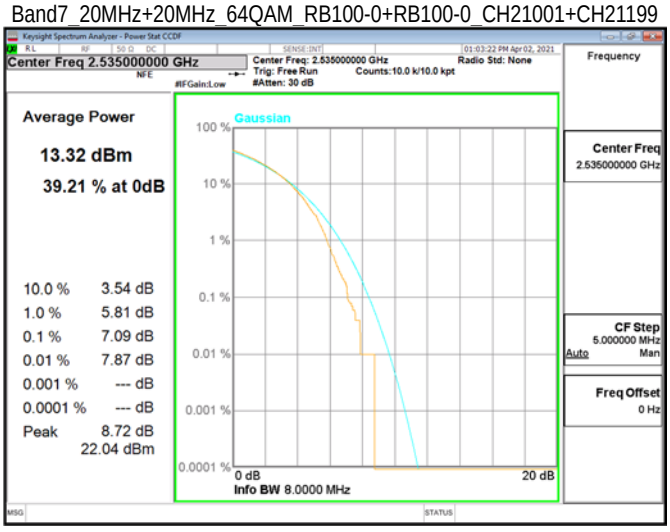
Band7_20MHz+15MHz_ 64QAM_ RB100-0+RB75-0_ CH21026+CH21197



Band7_15MHz+20MHz_ 64QAM_ RB75-0+RB100-0_ CH21003+CH21174



Band7_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH21001+CH21199



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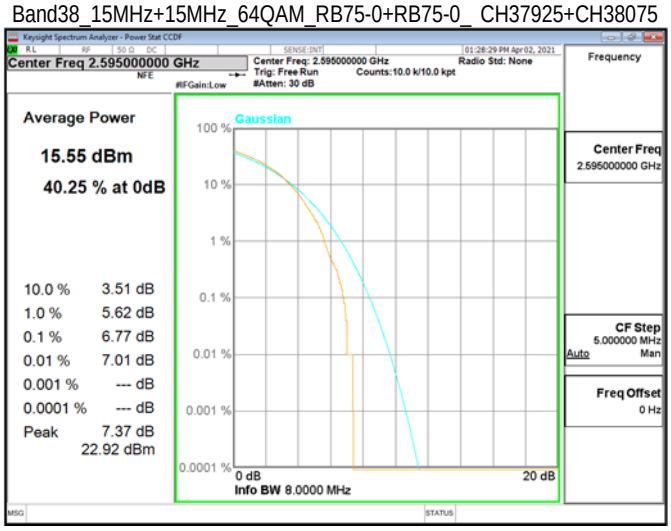
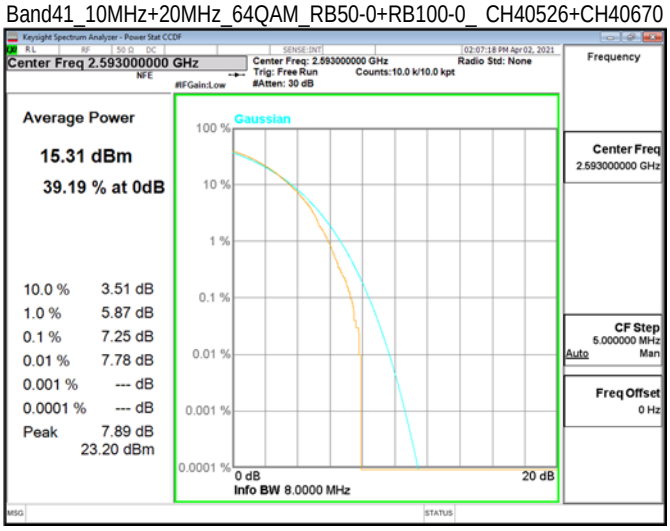
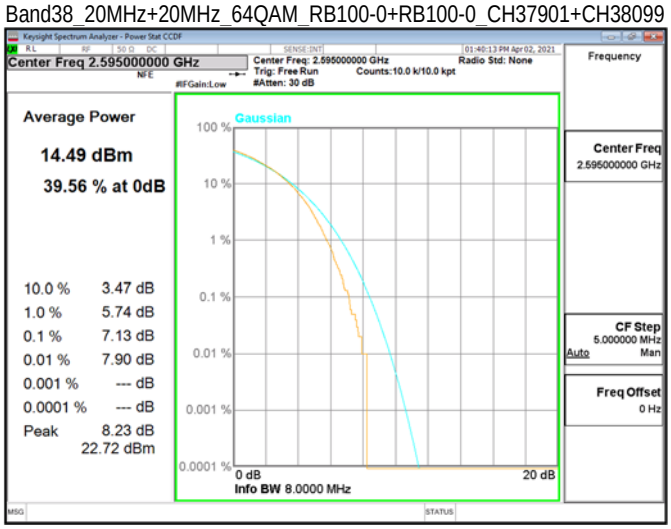
Band38_15MHz+15MHz_64QAM_RB75-0+RB75-0_ CH37925+CH38075



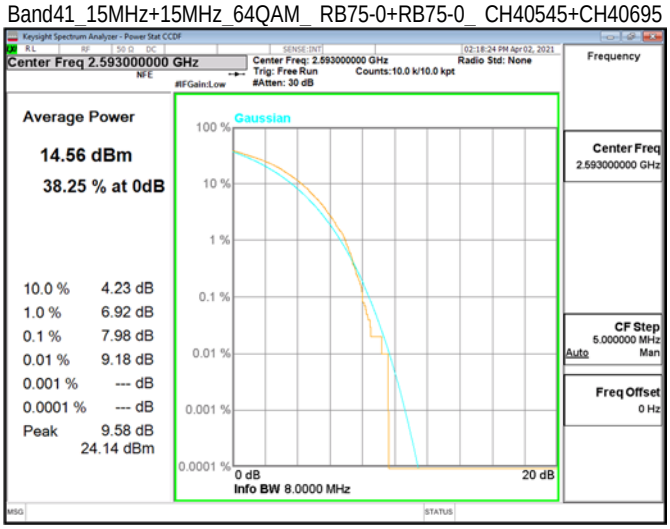
Band41_10MHz+20MHz_64QAM_RB50-0+RB100-0_ CH40526+CH40670



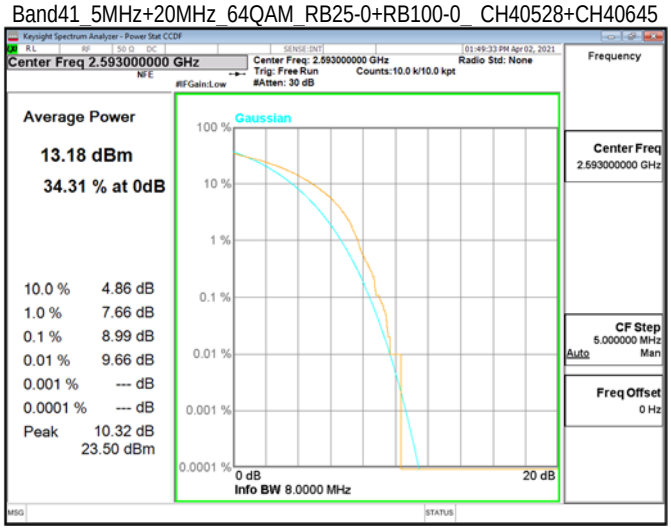
Band38_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH37901+CH38099



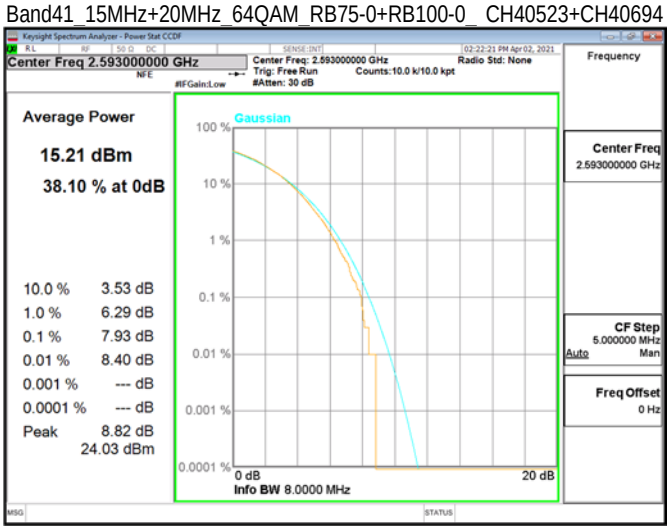
Band41_15MHz+15MHz_64QAM_ RB75-0+RB75-0_ CH40545+CH40695



Band41_5MHz+20MHz_64QAM_RB25-0+RB100-0_ CH40528+CH40645



Band41_15MHz+20MHz_64QAM_RB75-0+RB100-0_ CH40523+CH40694



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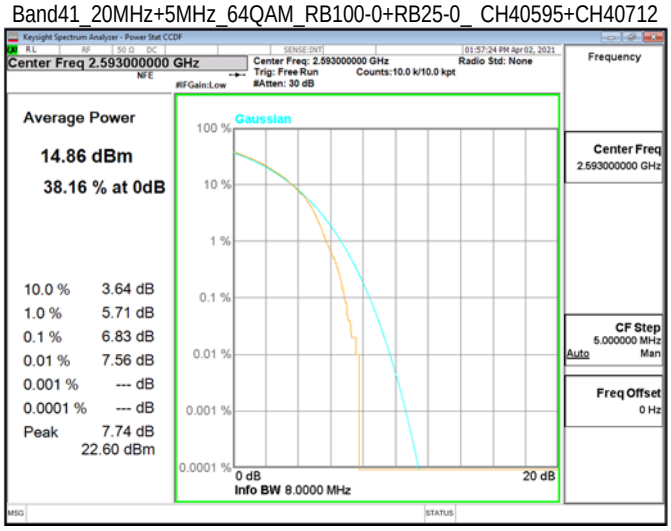
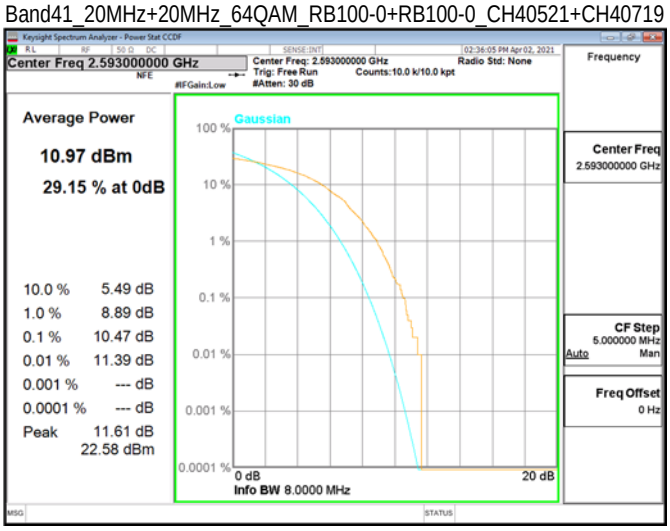
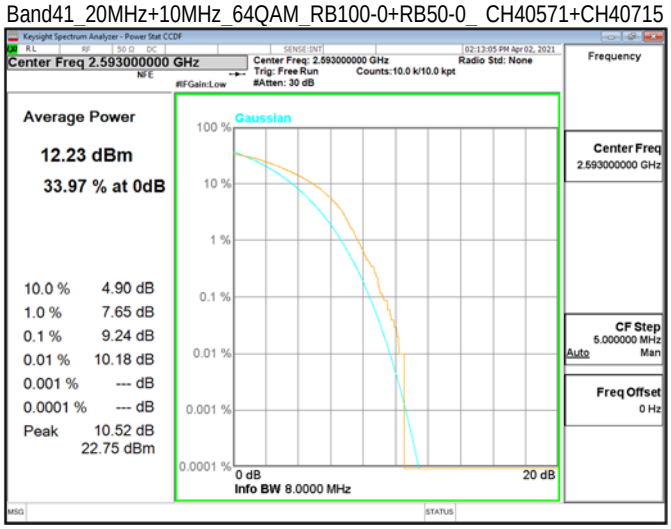
Band41_20MHz+5MHz_64QAM_RB100-0+RB25-0_ CH40595+CH40712



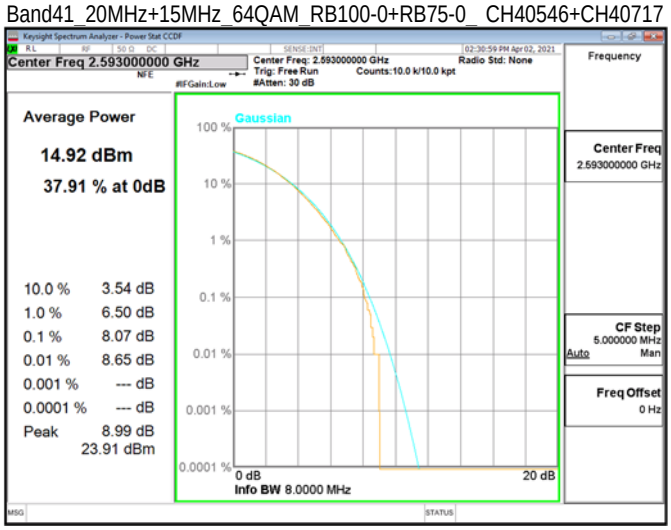
Band41_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH40521+CH40719



Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_ CH40571+CH40715



Band41_20MHz+15MHz_64QAM_RB100-0+RB75-0_ CH40546+CH40717



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