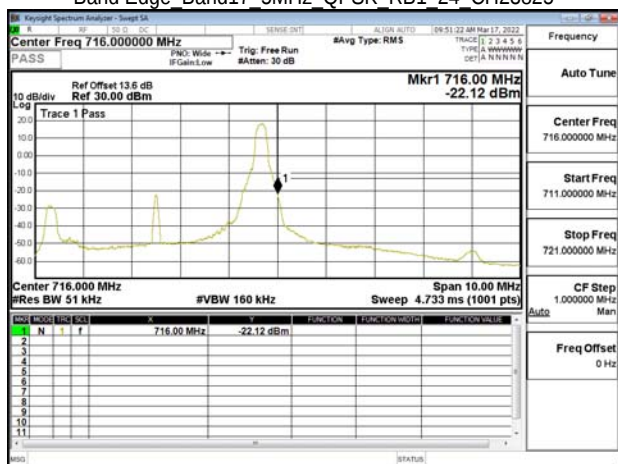
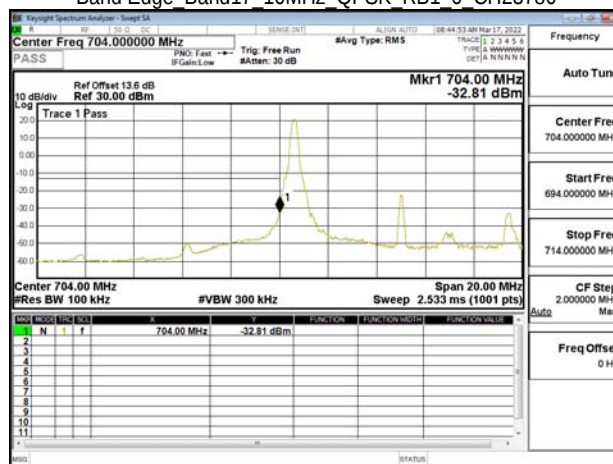


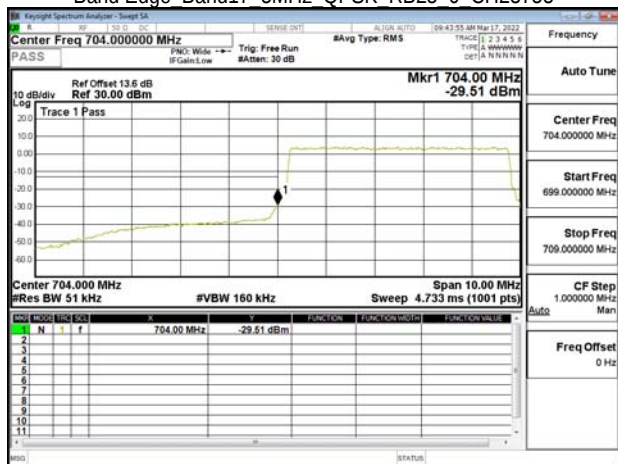
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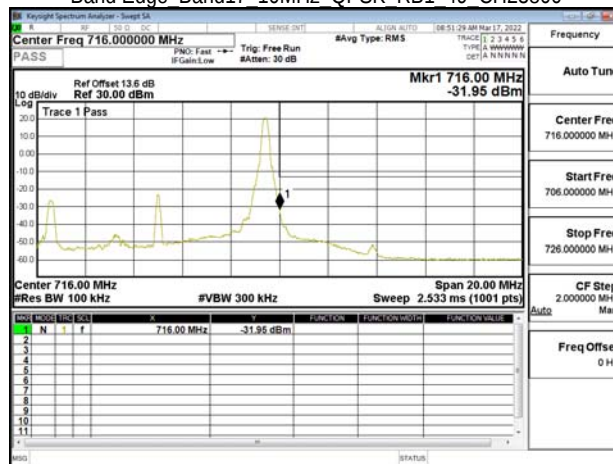
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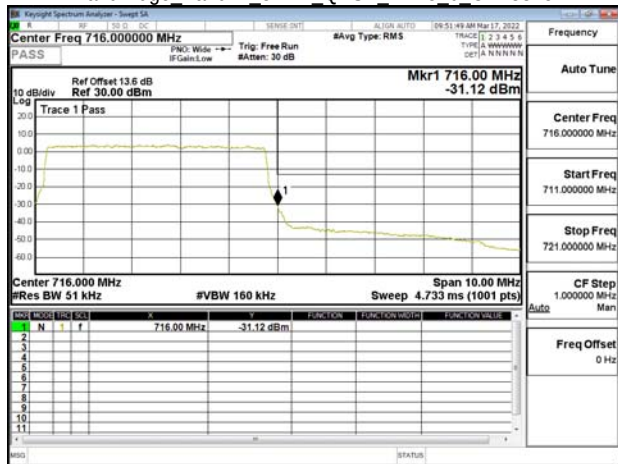
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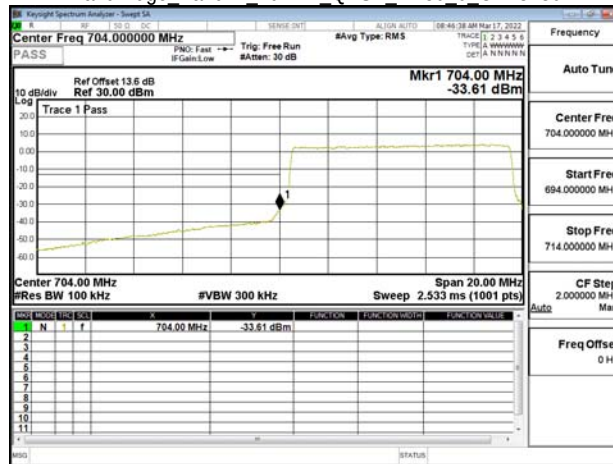
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Band Edge Band17 5MHz QPSK RB25 0 CH23825



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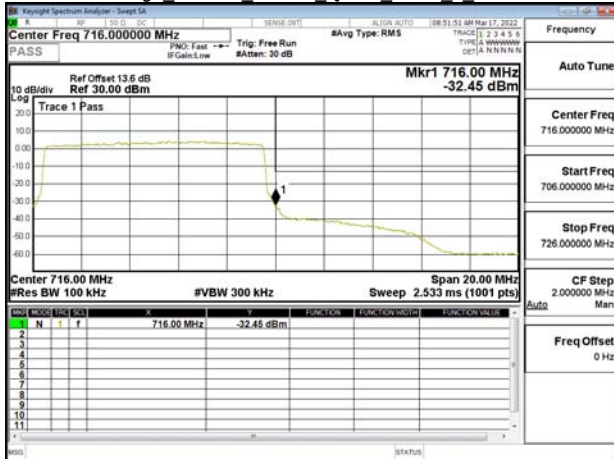


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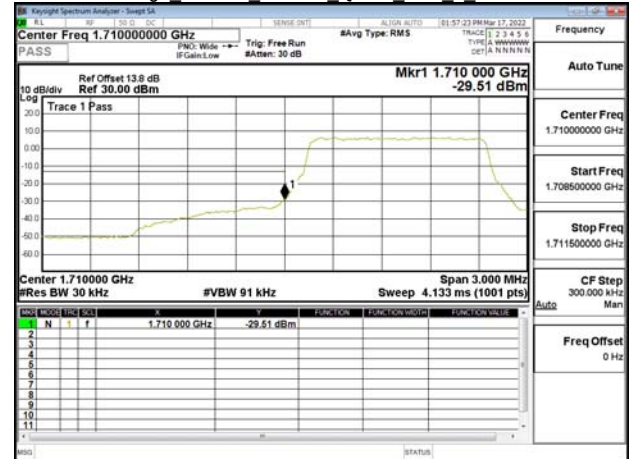
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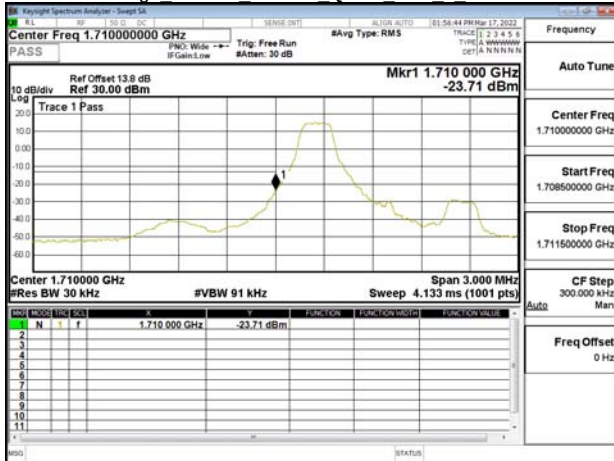
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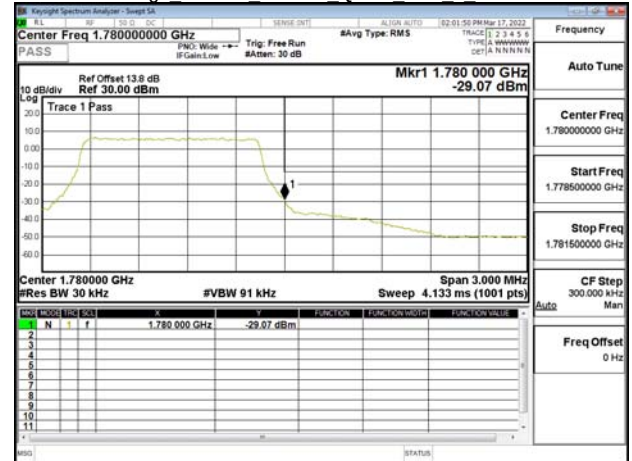
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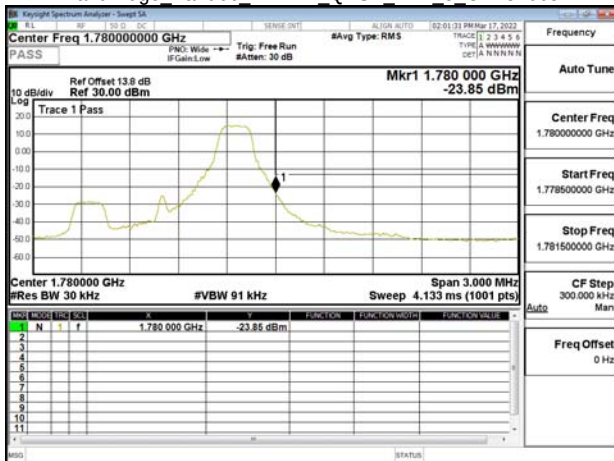
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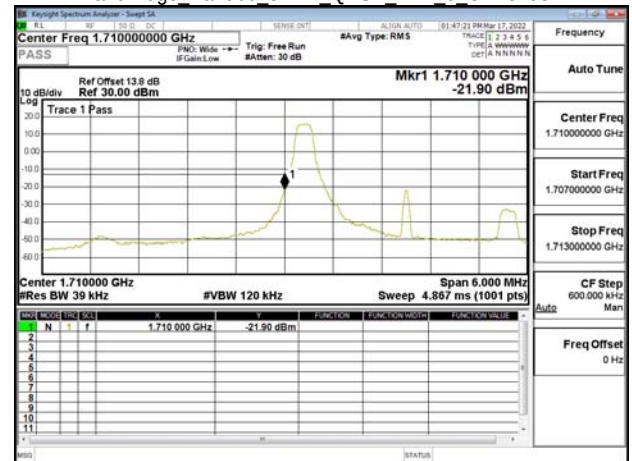
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Band Edge Band66 1.4MHz QPSK RB1 5 CH132665



Band Edge Band66 3MHz QPSK RB1 0 CH131987

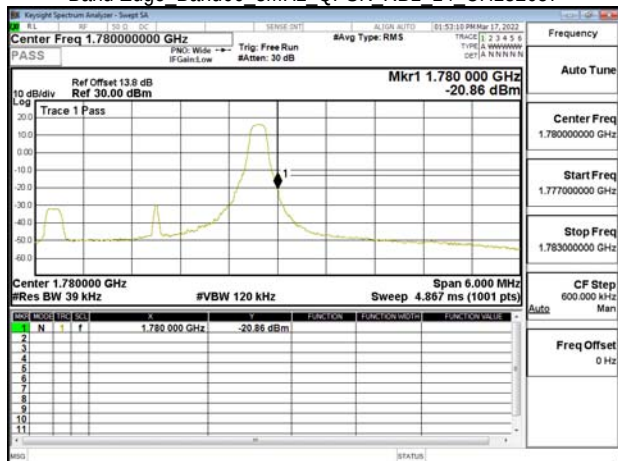


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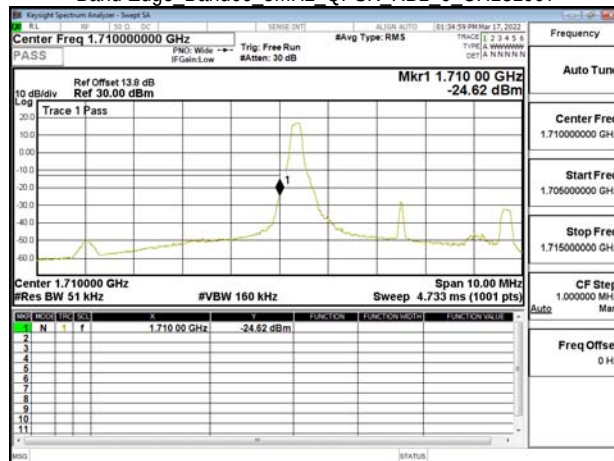
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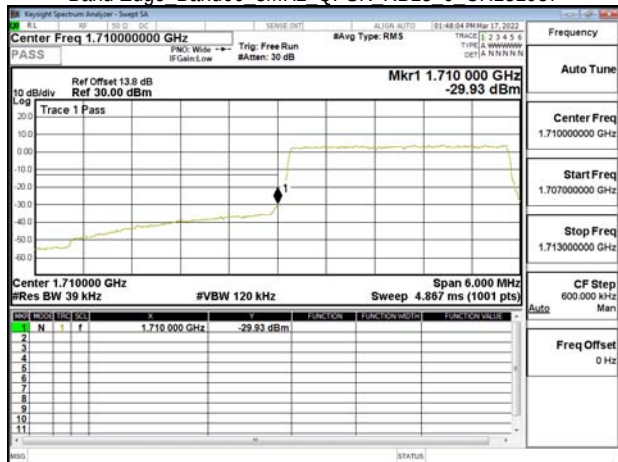
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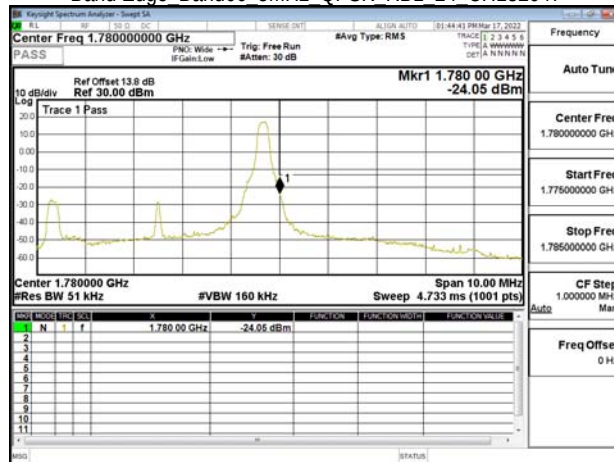
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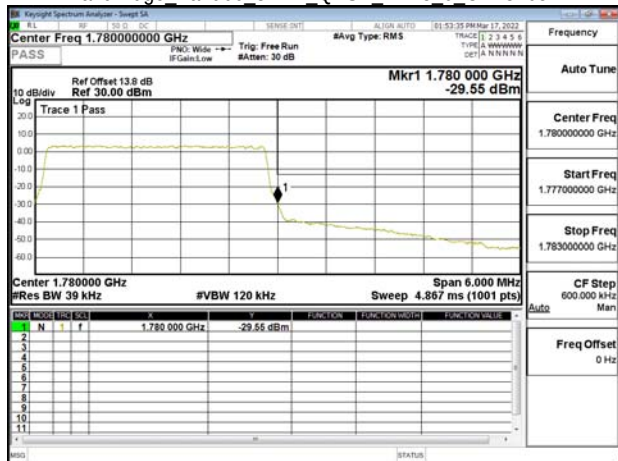
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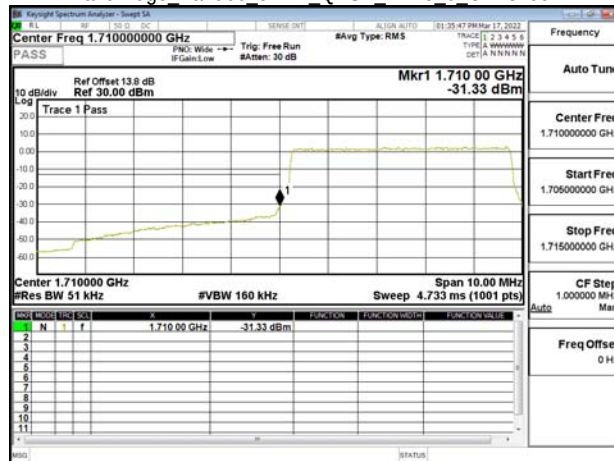
Band Edge Band66 5MHz QPSK RB1 24 CH132647



Band Edge Band66 3MHz QPSK RB15 0 CH132657



Band Edge Band66 5MHz QPSK RB25 0 CH131997

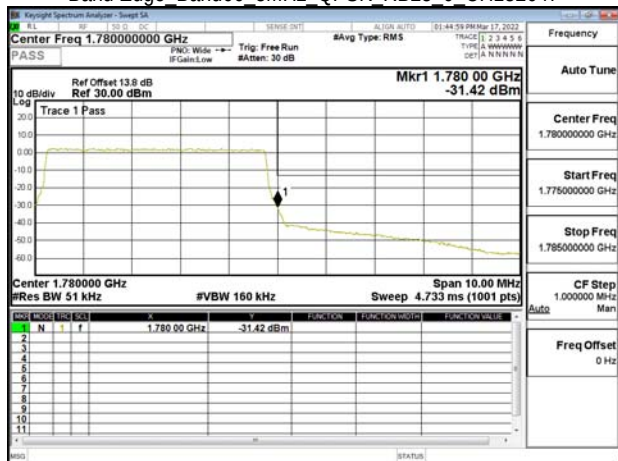


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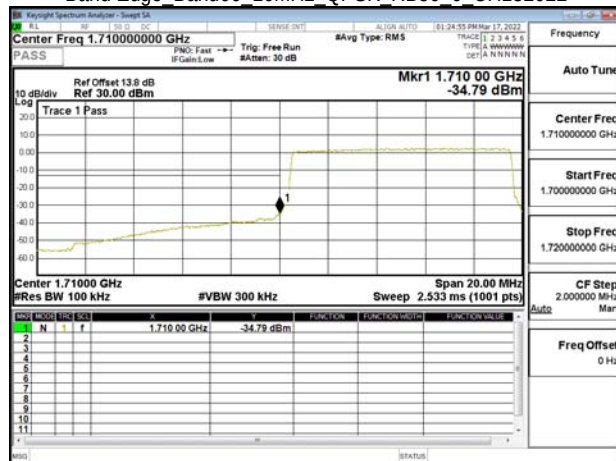
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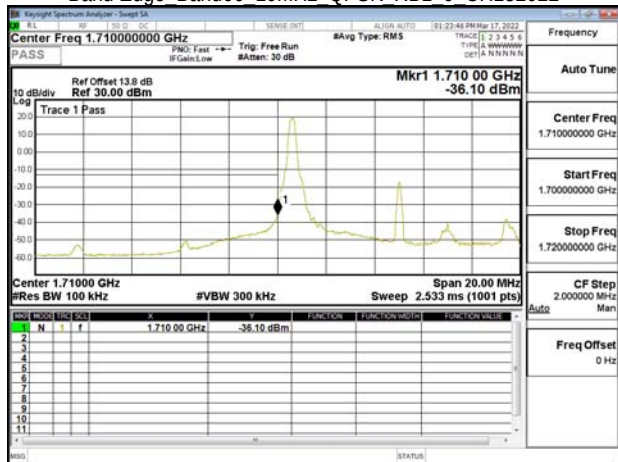
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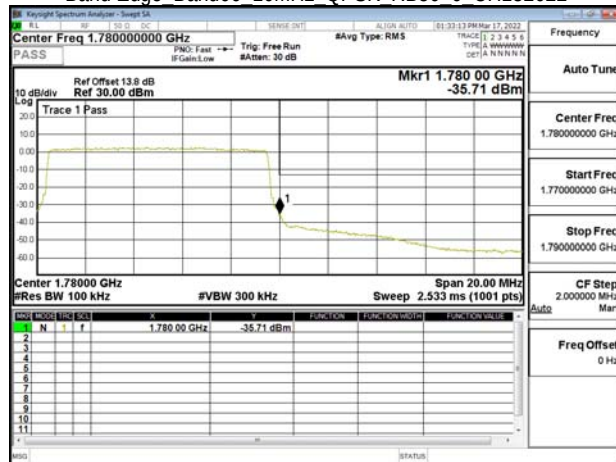
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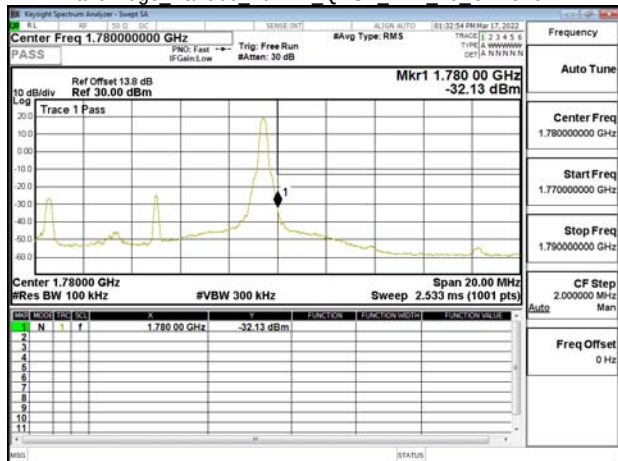
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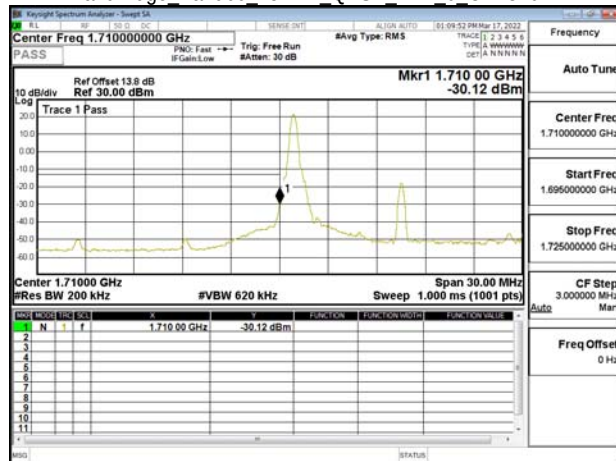
Band Edge Band66 10MHz QPSK RB50 0 CH132622



Band Edge Band66 10MHz QPSK RB1 49 CH132622



Band Edge Band66 15MHz QPSK RB1 0 CH132047

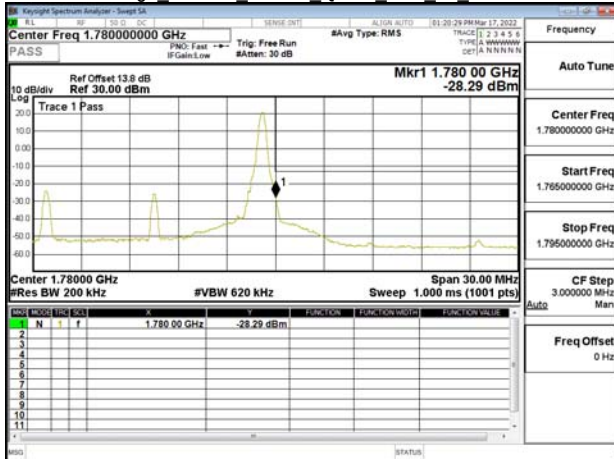


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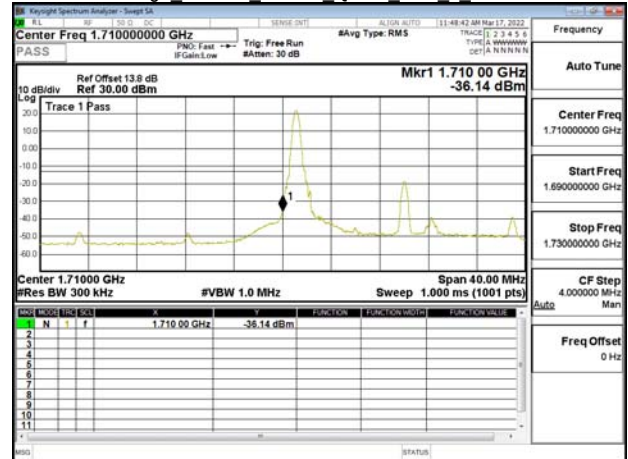
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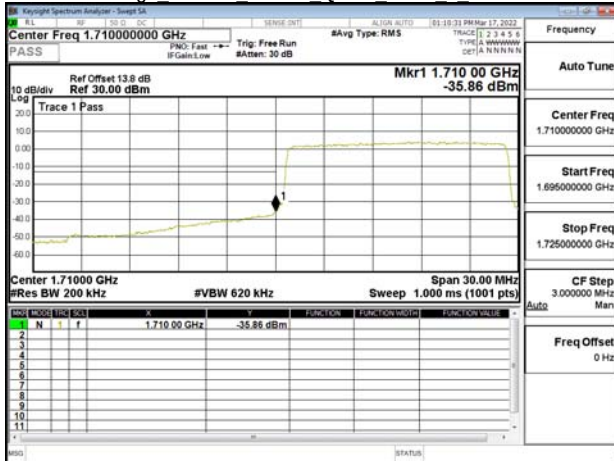
Band Edge Band66 15MHz QPSK RB1 74 CH132597



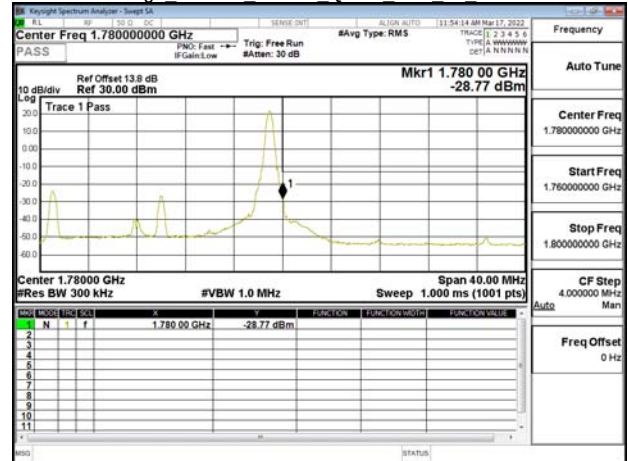
Band Edge Band66 20MHz QPSK RB1 0 CH132072



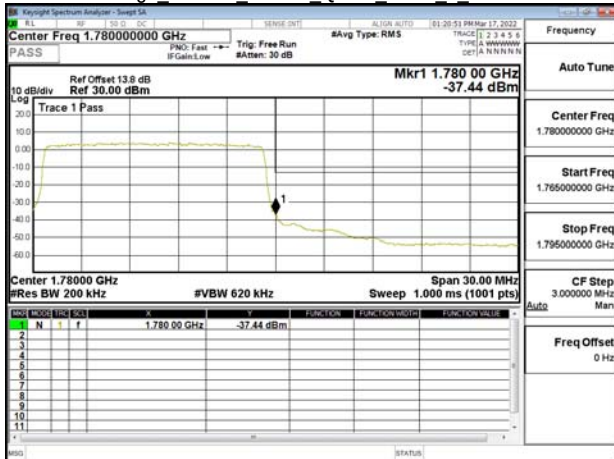
Band Edge Band66 15MHz QPSK RB75 0 CH132047



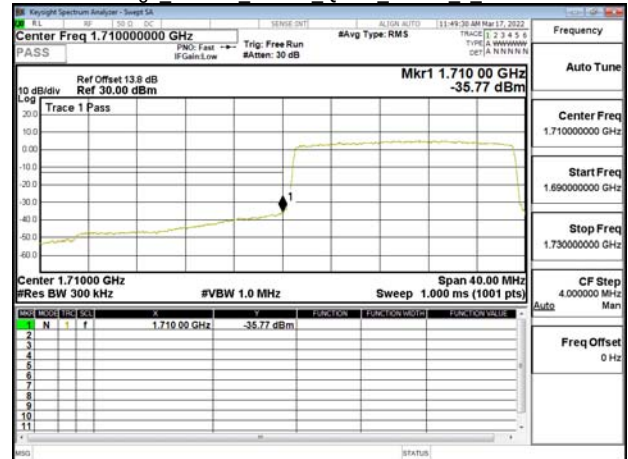
Band Edge Band66 20MHz QPSK RB1 99 CH132572



Band Edge Band66 15MHz QPSK RB75 0 CH132597



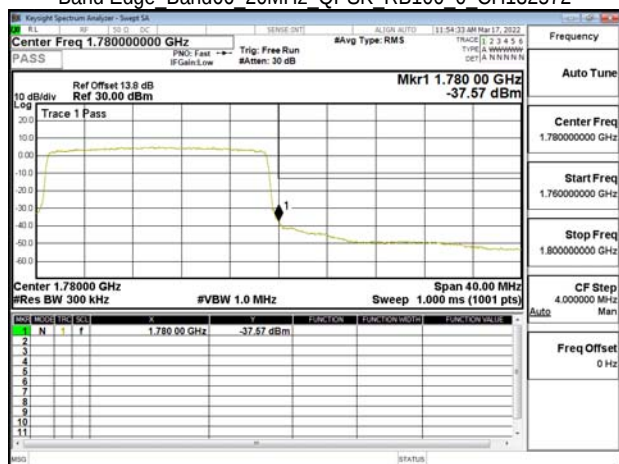
Band Edge Band66 20MHz QPSK RB100 0 CH132072



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Band Edge Band66 20MHz QPSK RB100 0 CH132572



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9.5 Spurious Emission Measurement Result:

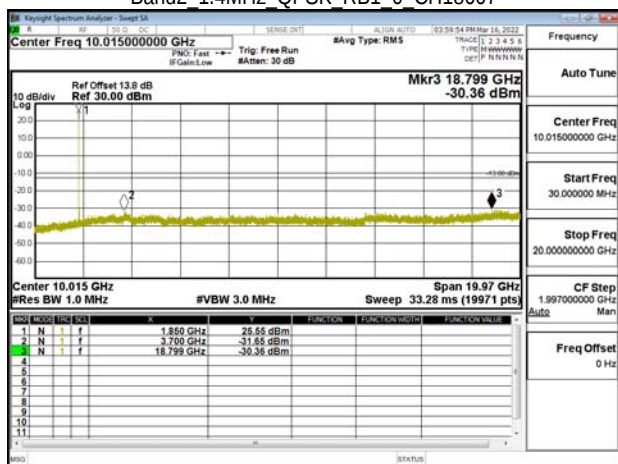
Refer to next pages.

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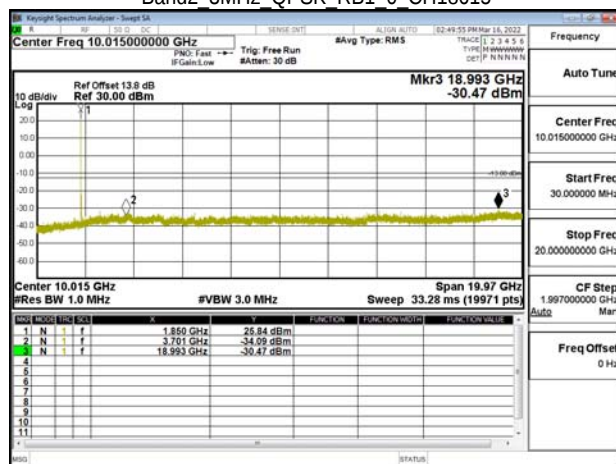
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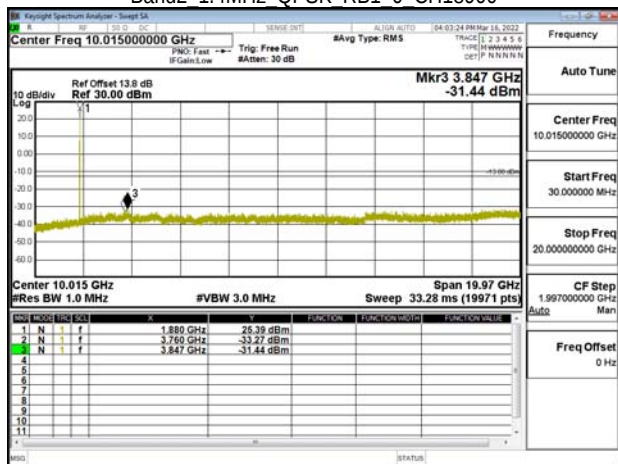
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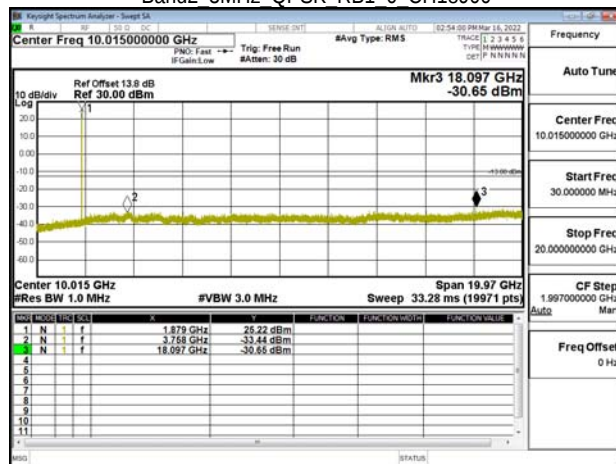
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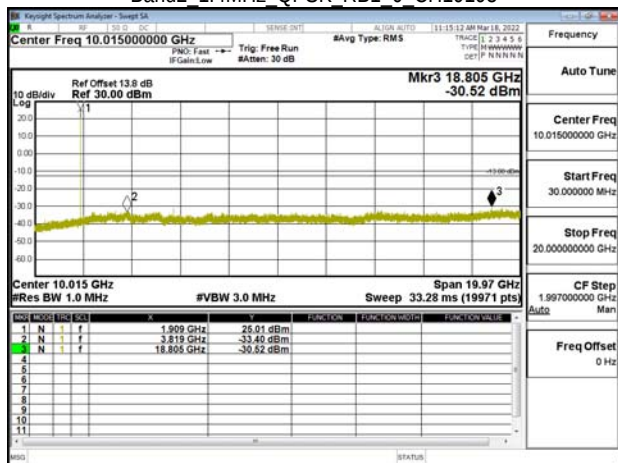
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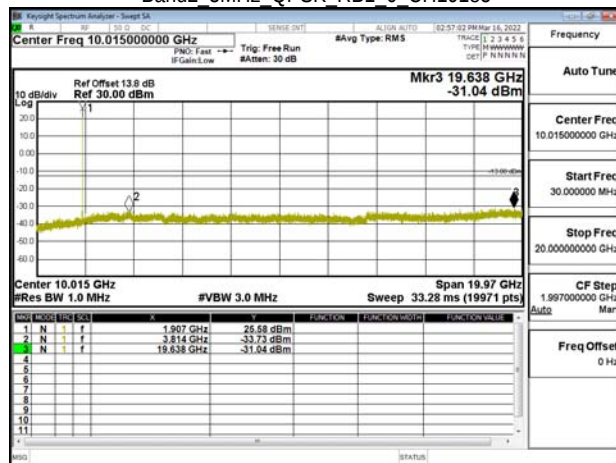
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Band2 1.4MHz QPSK RB1 0 CH19193



Band2 3MHz QPSK RB1 0 CH19185

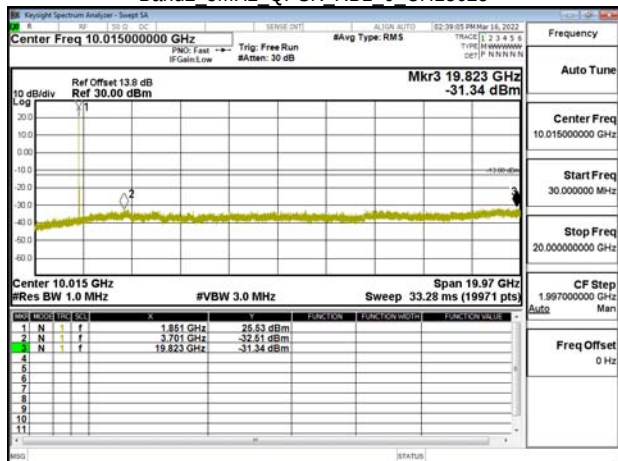


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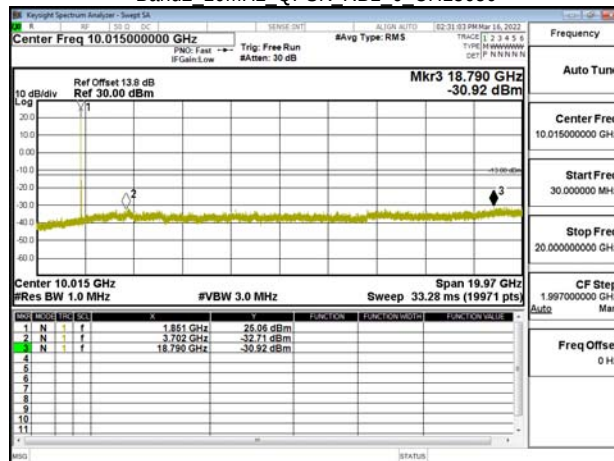
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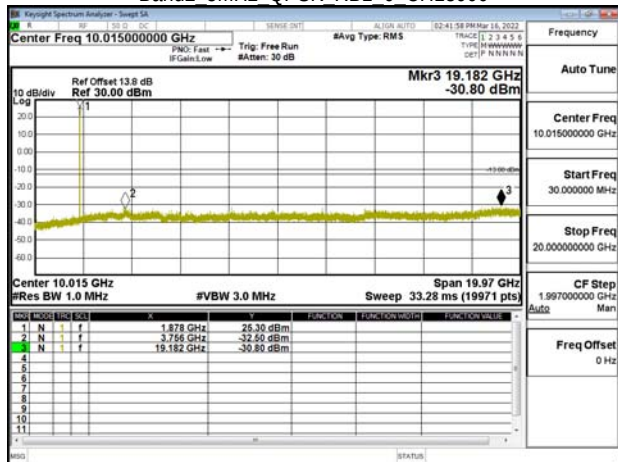
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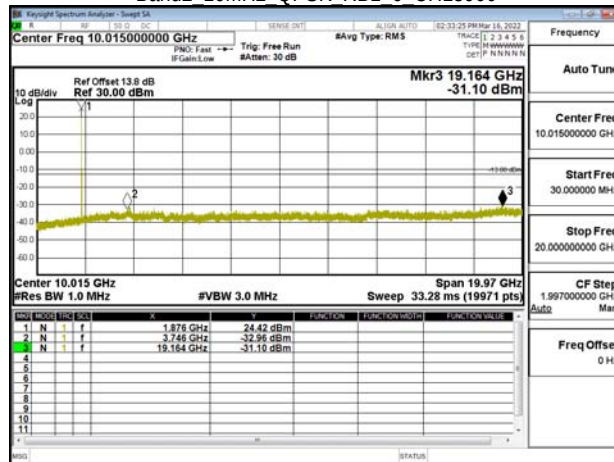
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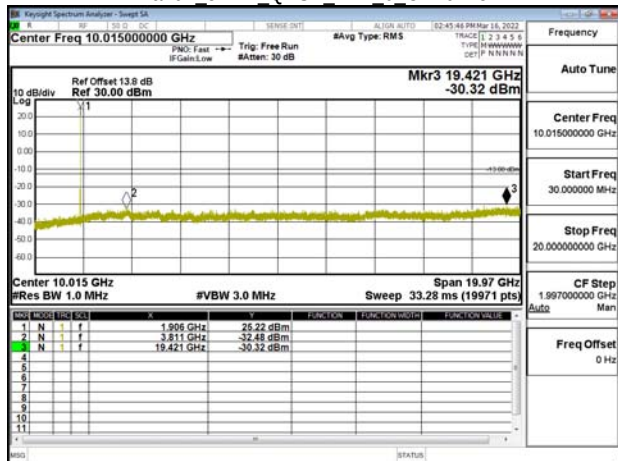
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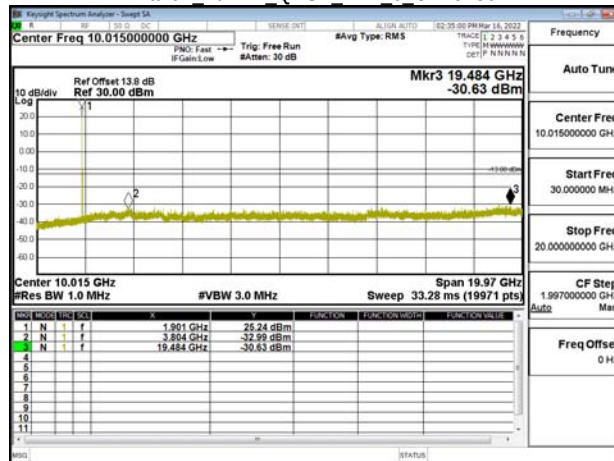
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Band2 5MHz QPSK RB1 0 CH19175



Band2 10MHz QPSK RB1 0 CH19150

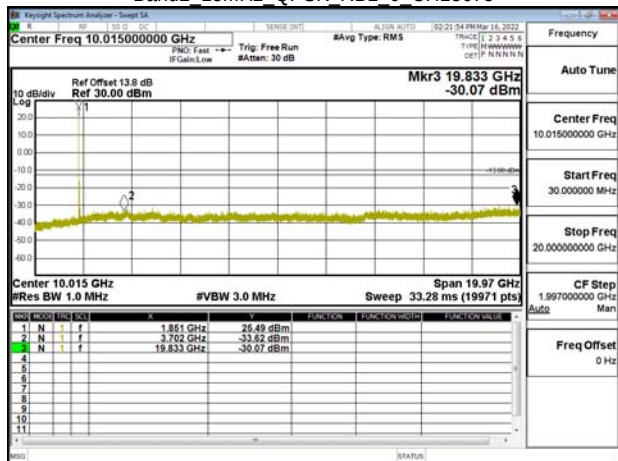


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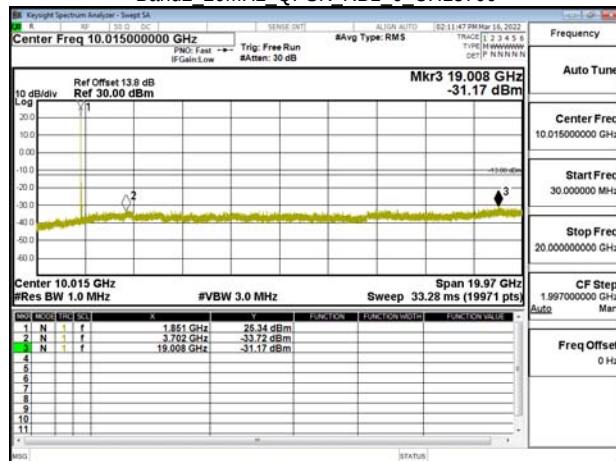
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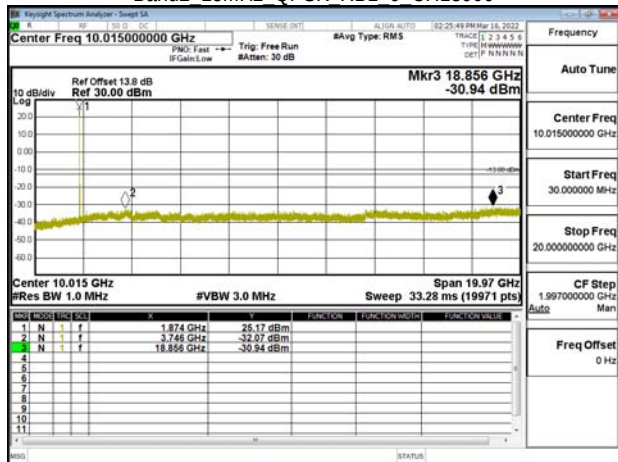
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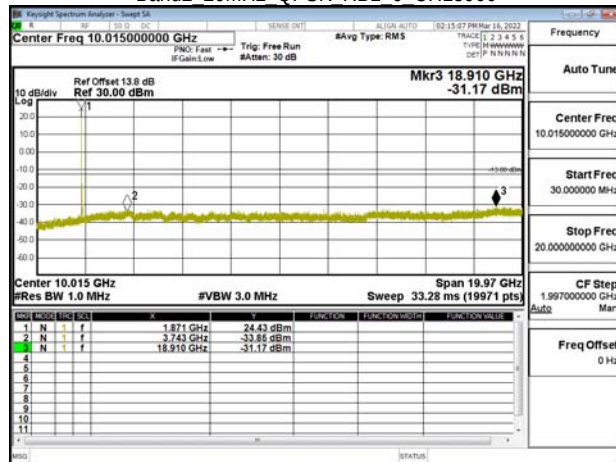
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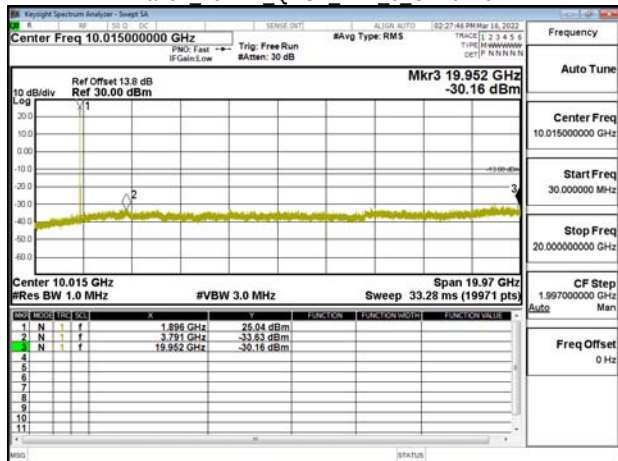
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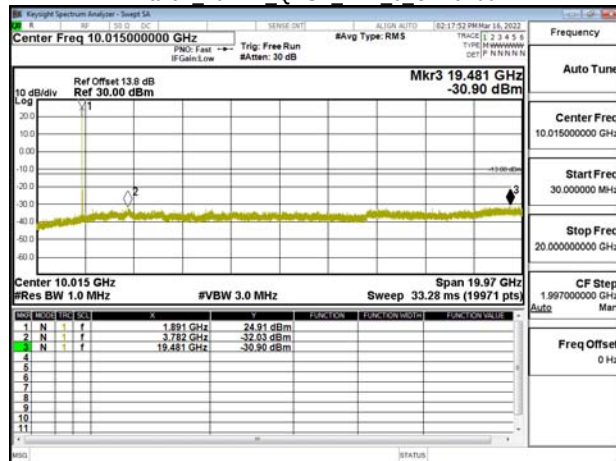
Band2 20MHz QPSK RB1 0 CH18900



Band2 15MHz QPSK RB1 0 CH19125



Band2 20MHz QPSK RB1 0 CH19100

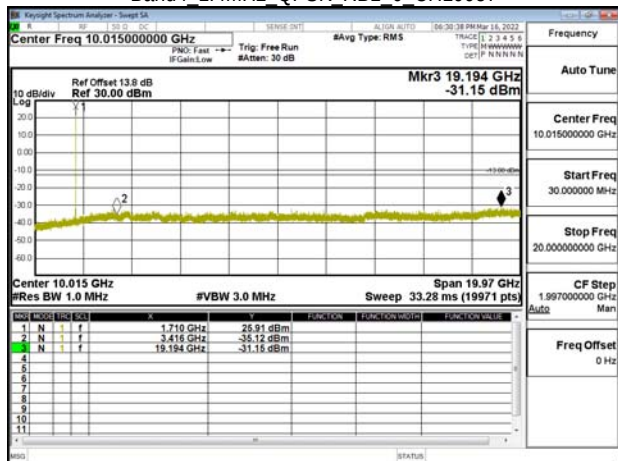


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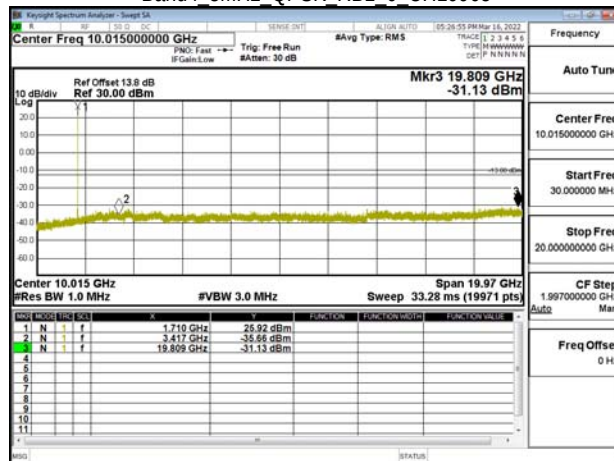
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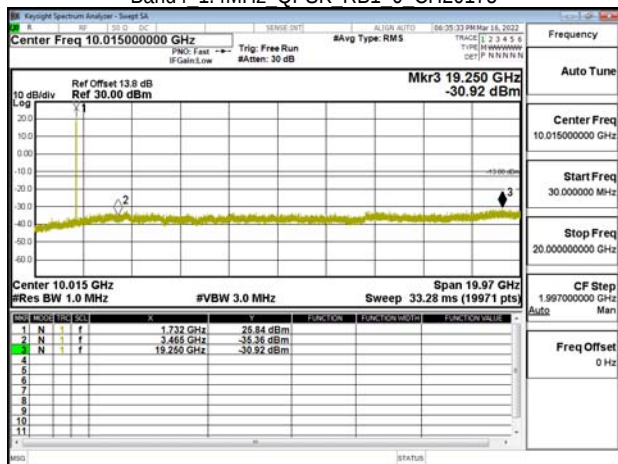
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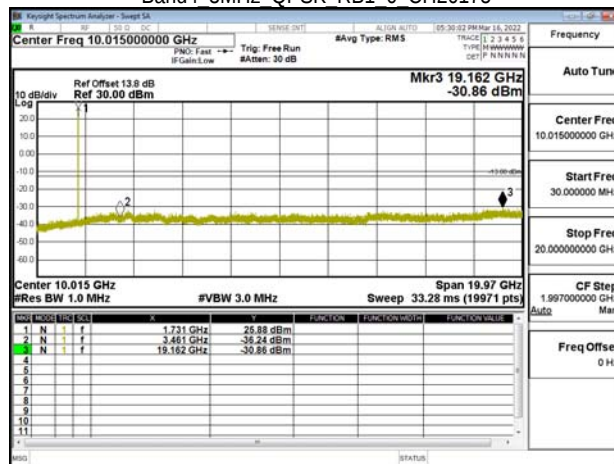
Band4 3MHz QPSK RB1 0 CH19965



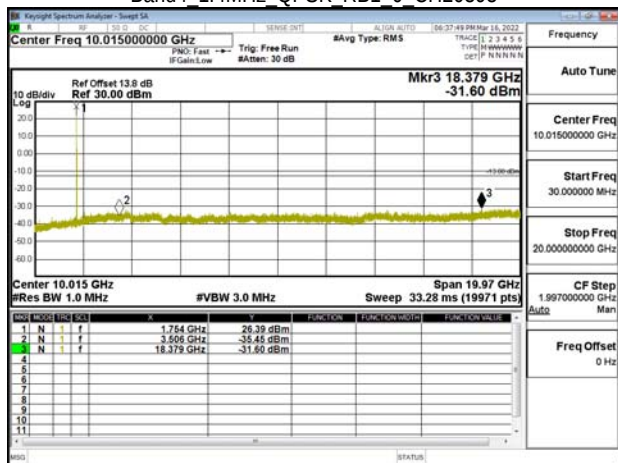
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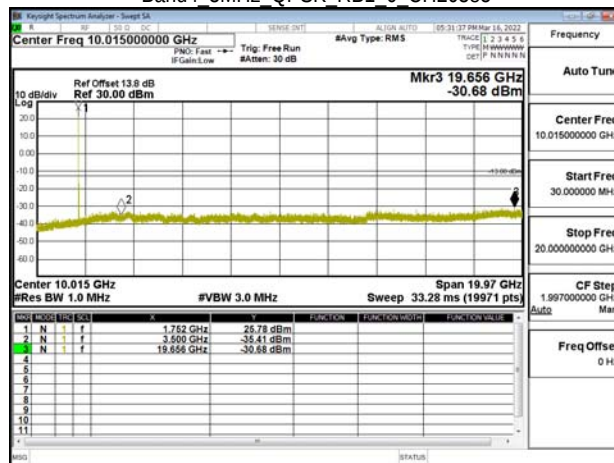
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Band4 1.4MHz QPSK RB1 0 CH20393



Band4 3MHz QPSK RB1 0 CH20385

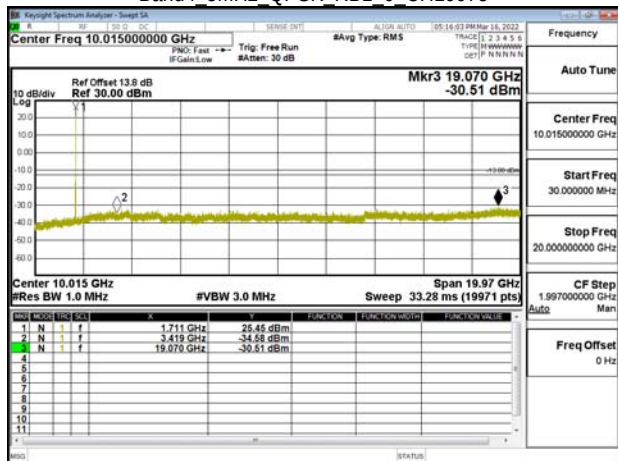


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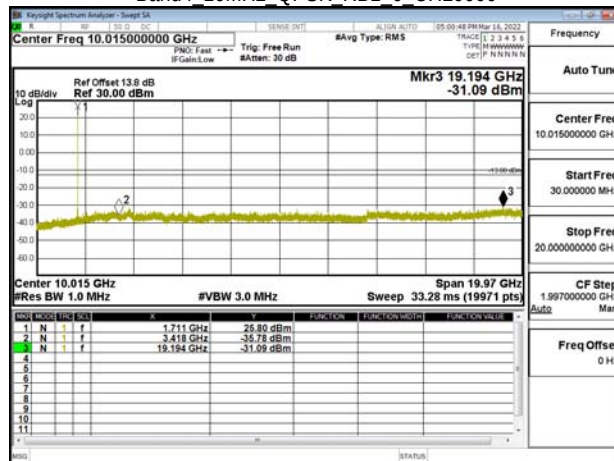
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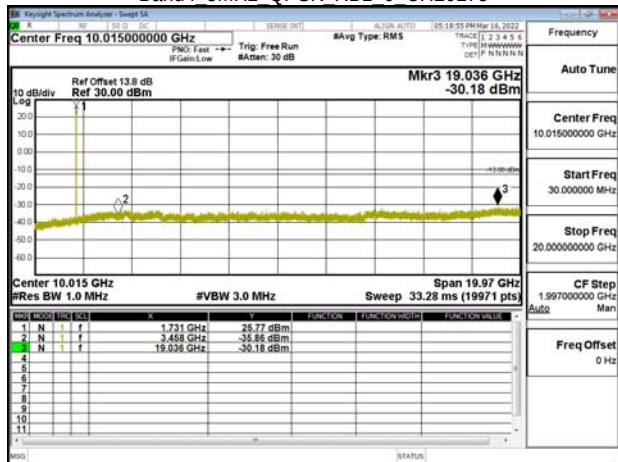
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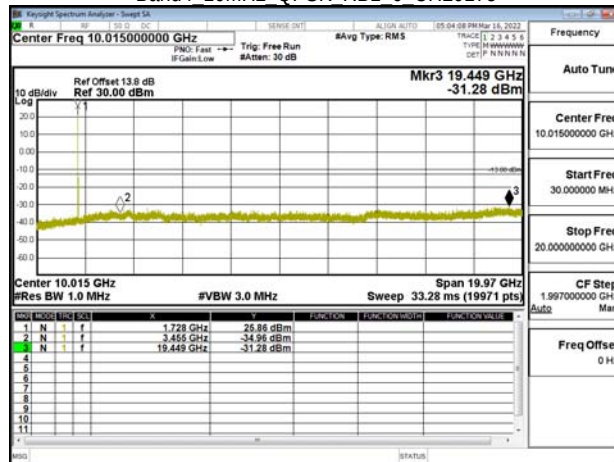
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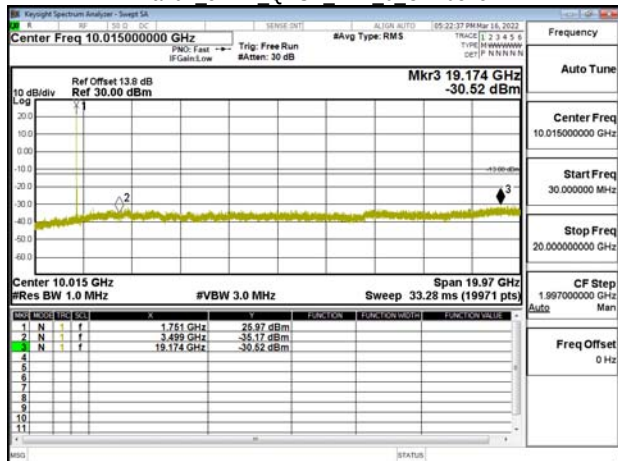
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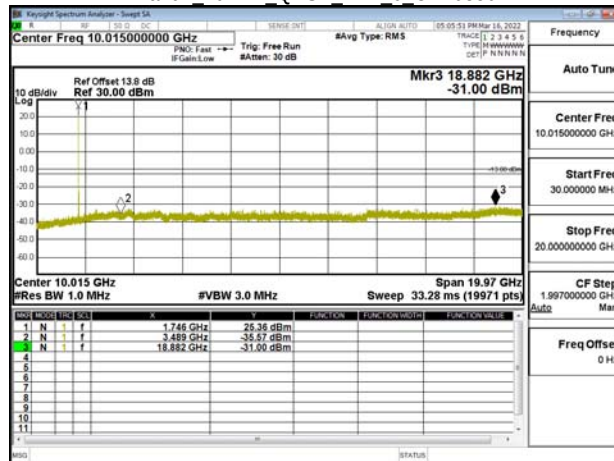
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Band4 10MHz QPSK RB1 0 CH20350

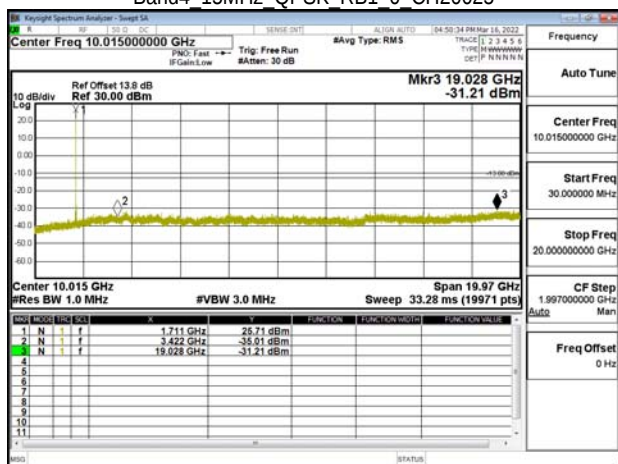


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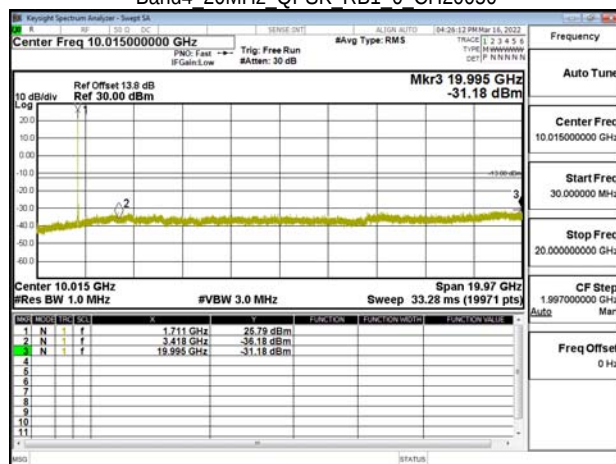
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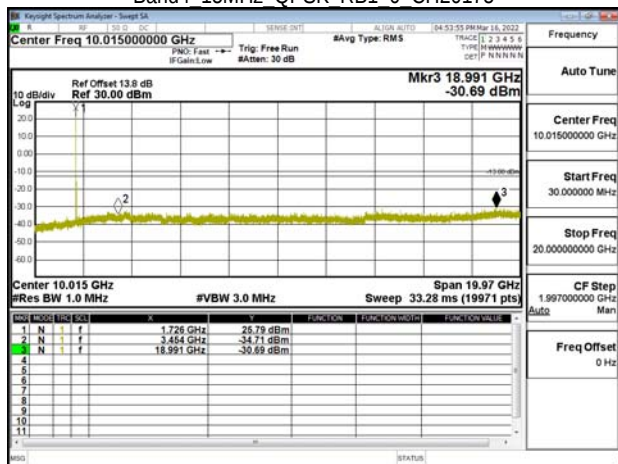
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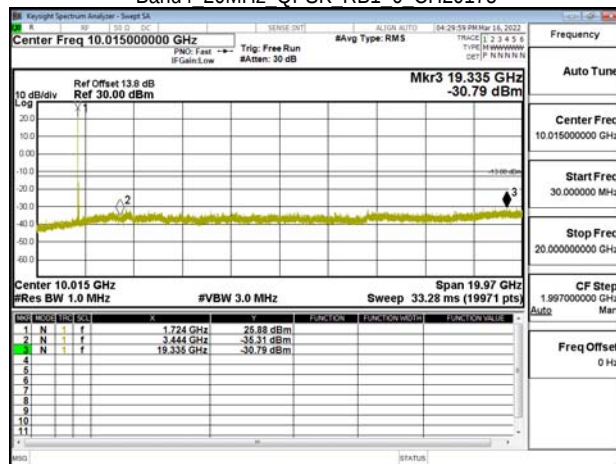
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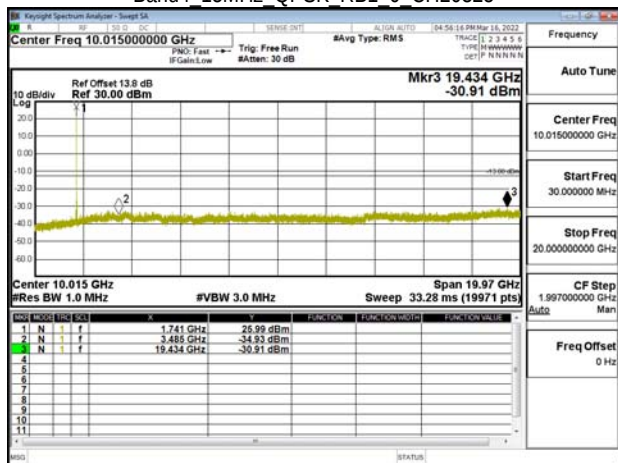
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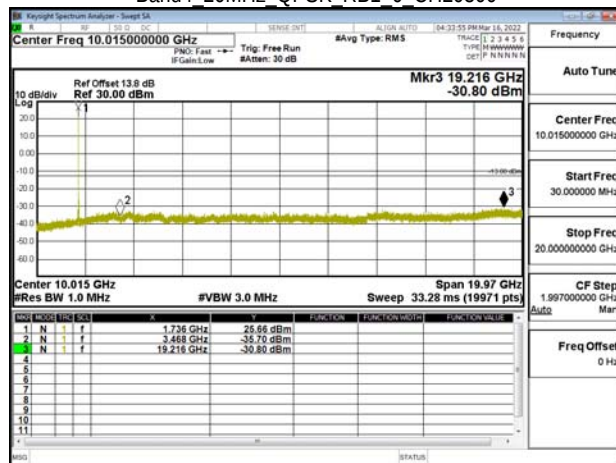
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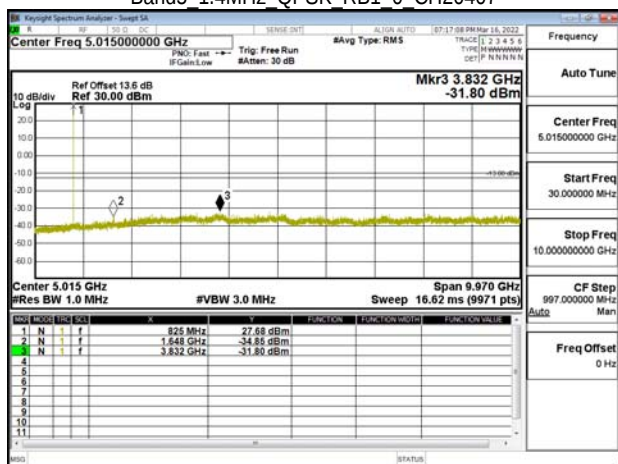


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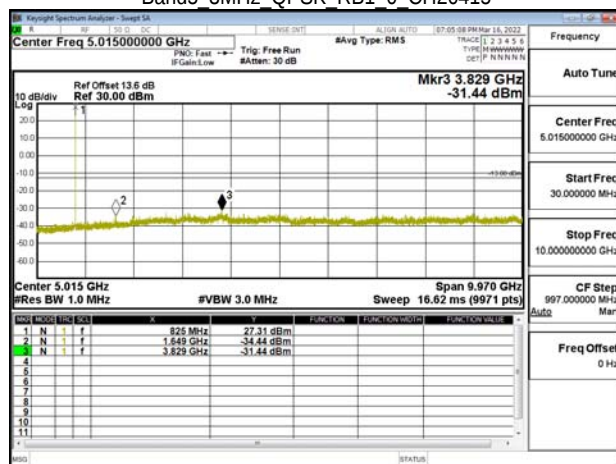
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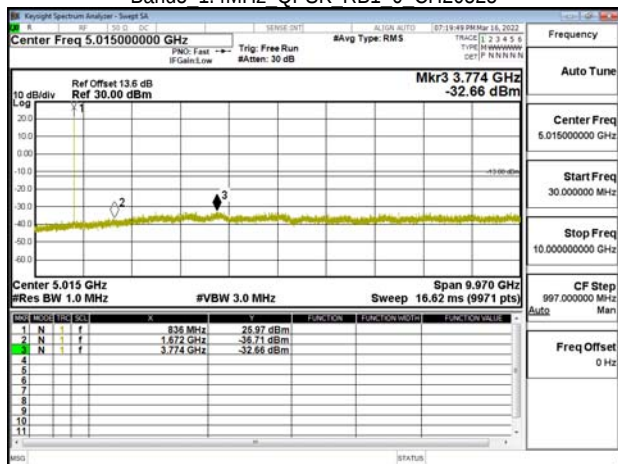
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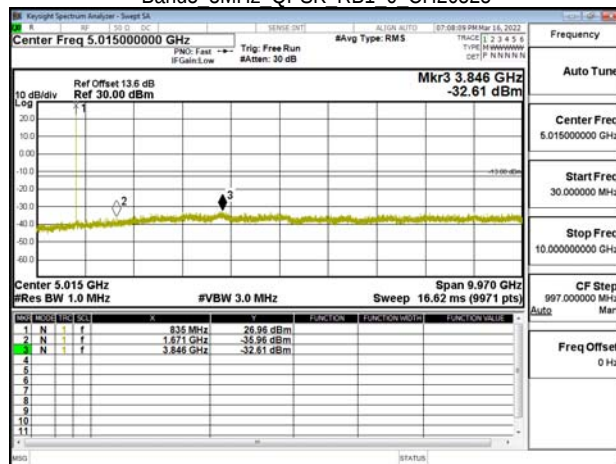
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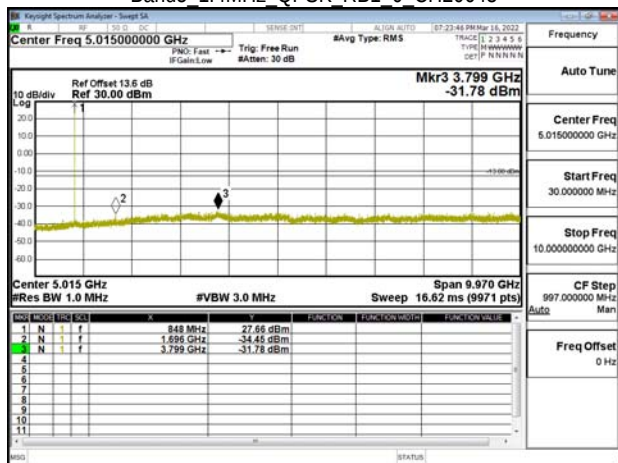
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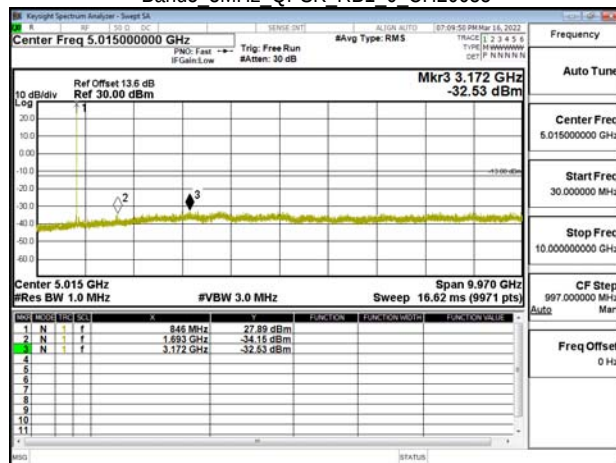
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Band5 1.4MHz QPSK RB1 0 CH20643



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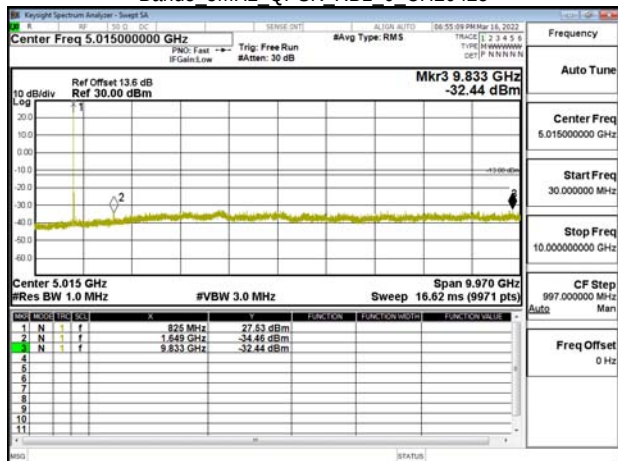


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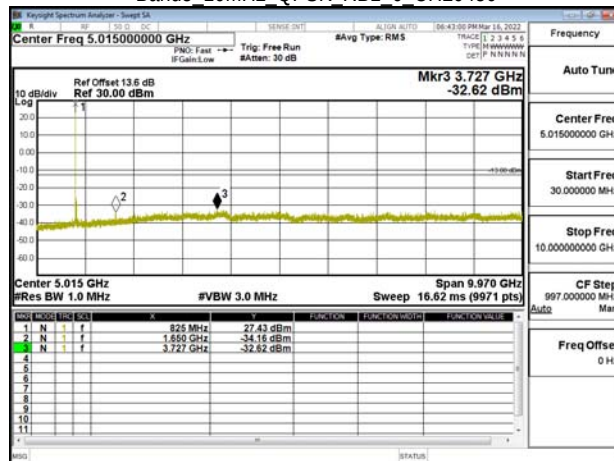
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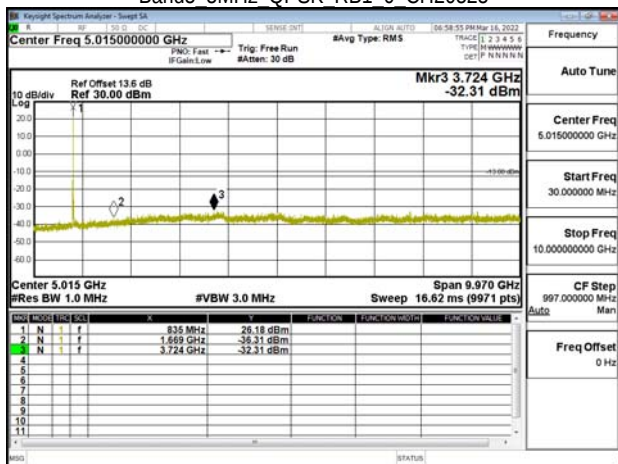
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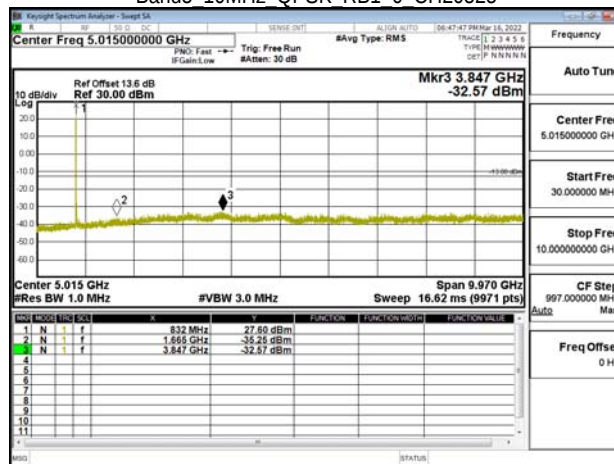
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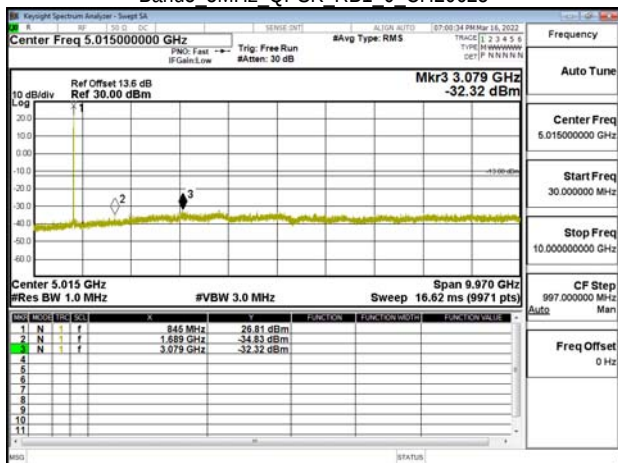
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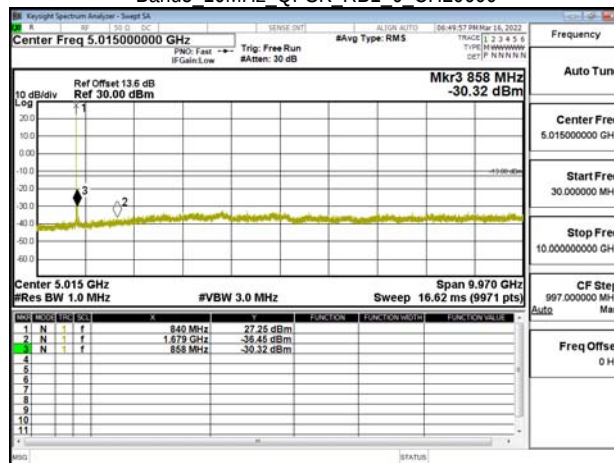
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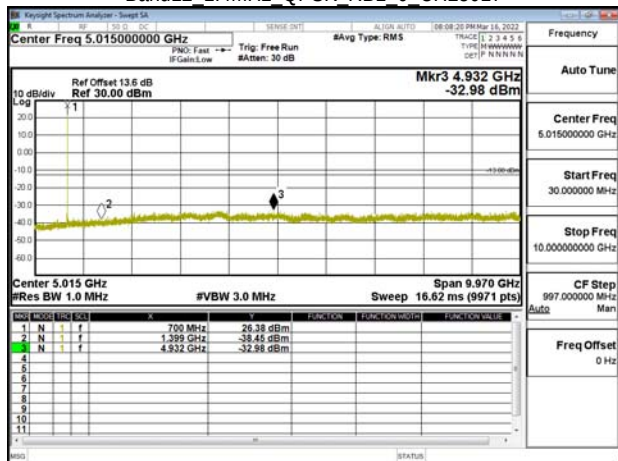


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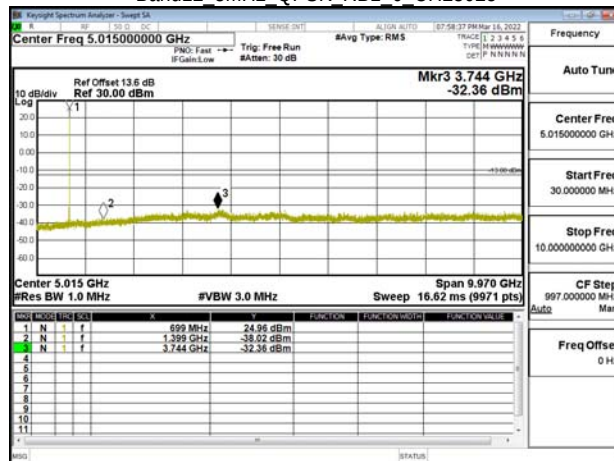
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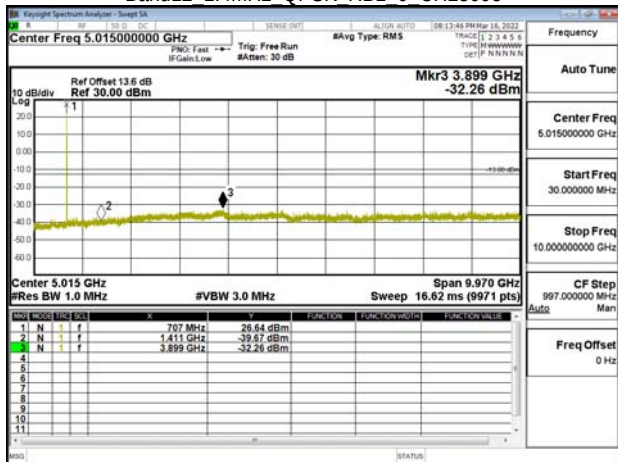
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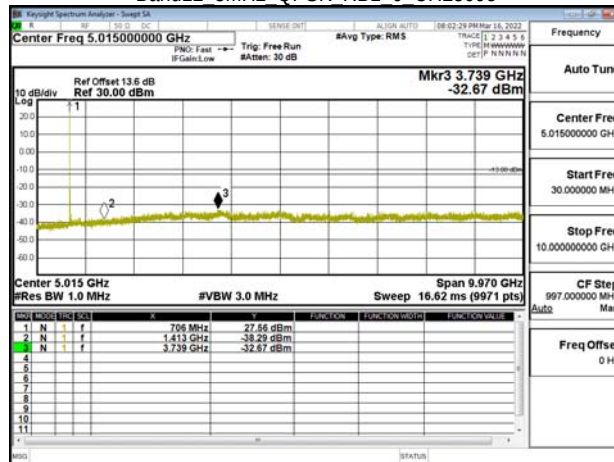
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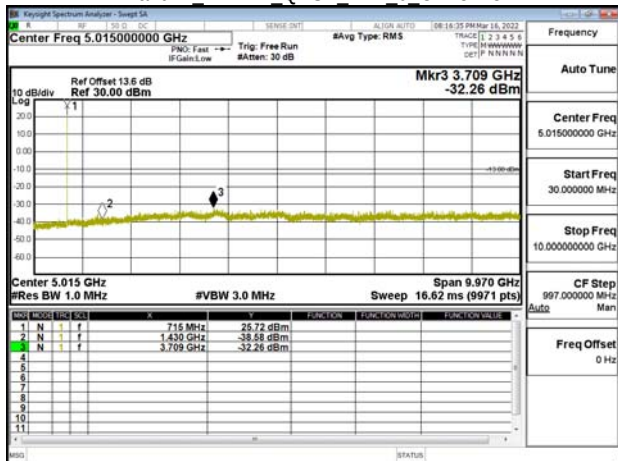
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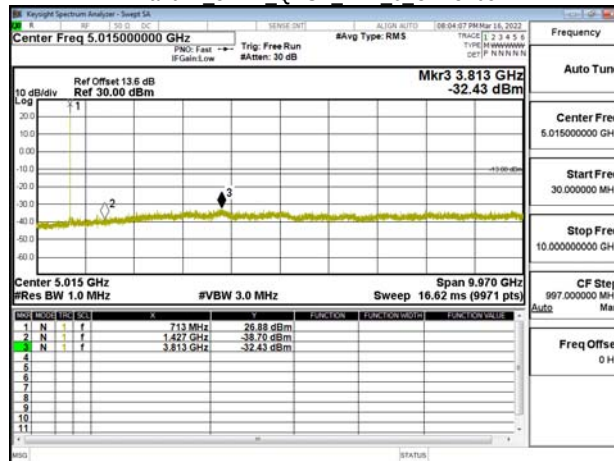
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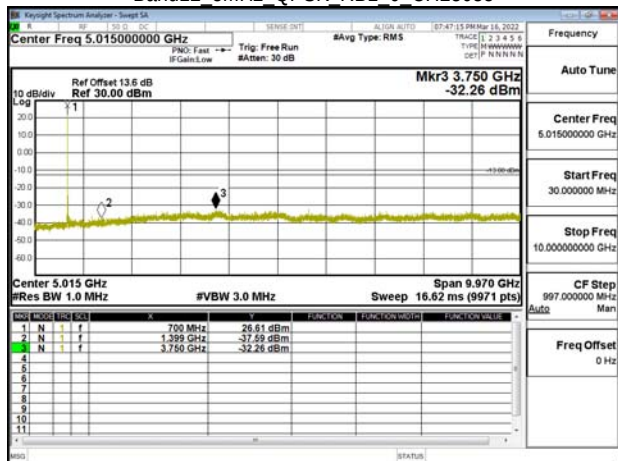


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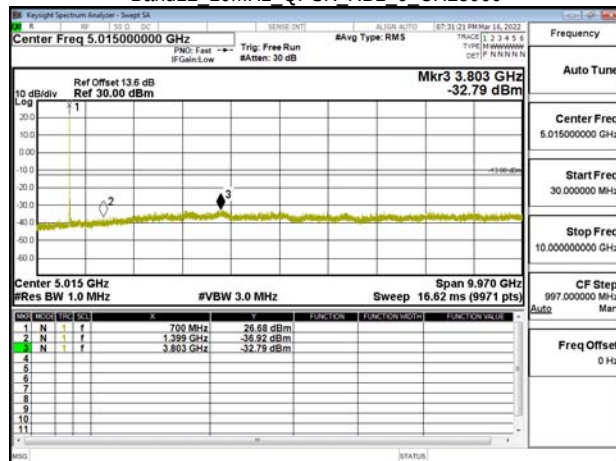
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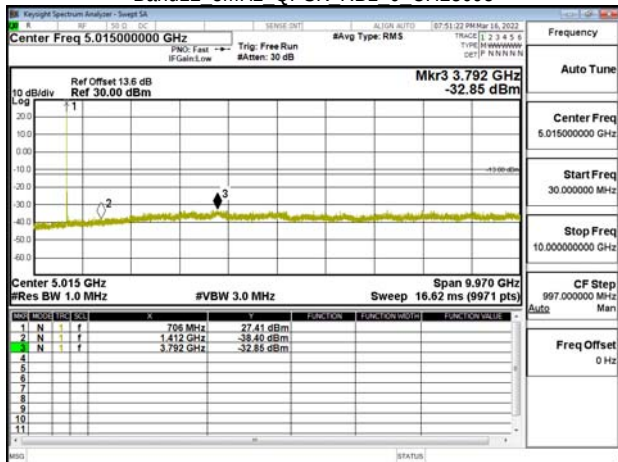
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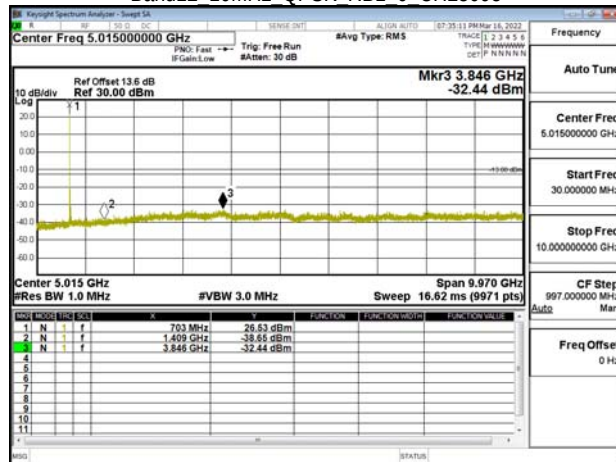
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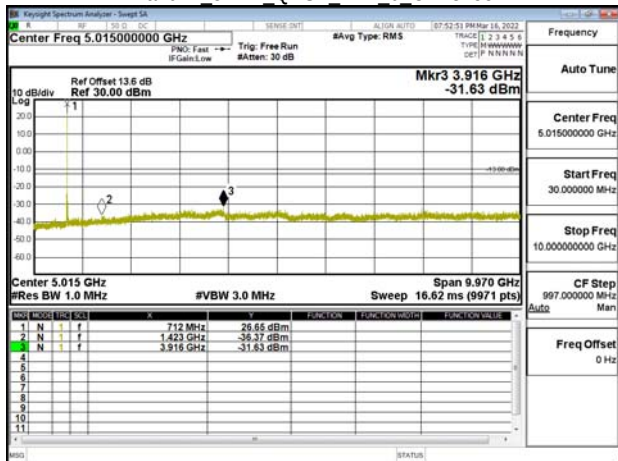
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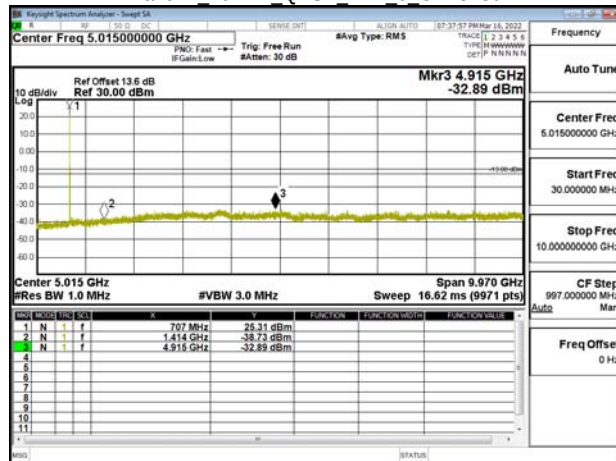
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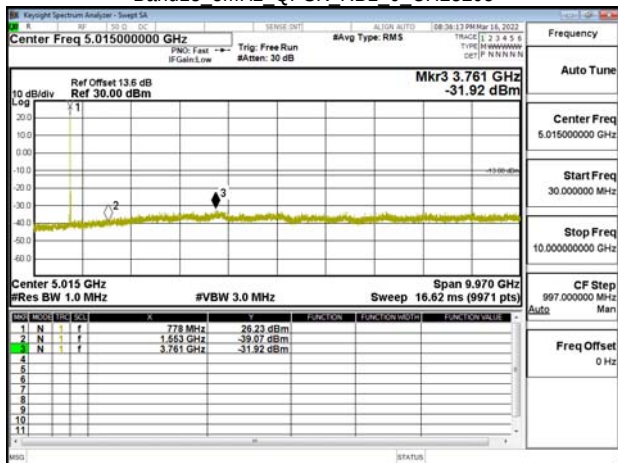


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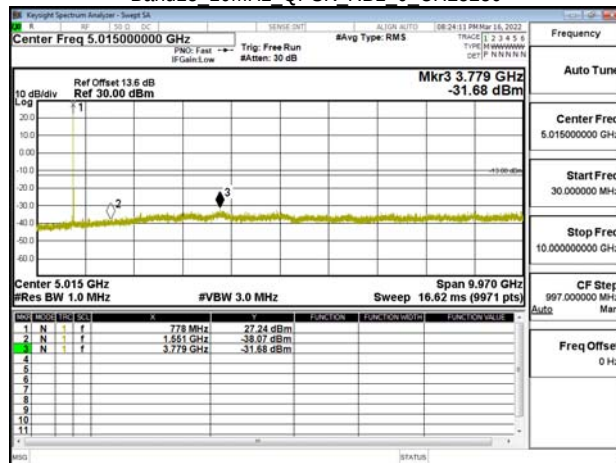
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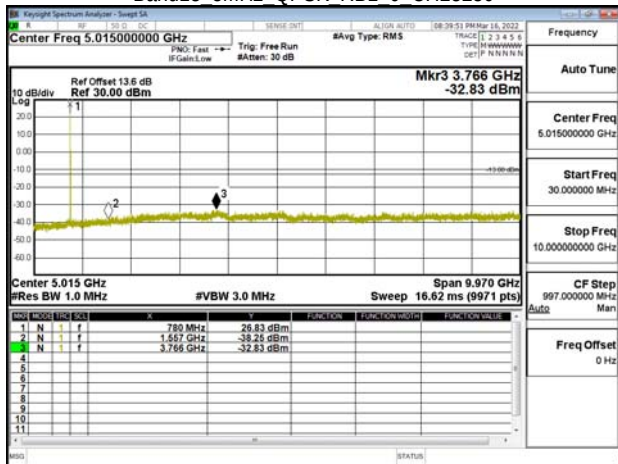
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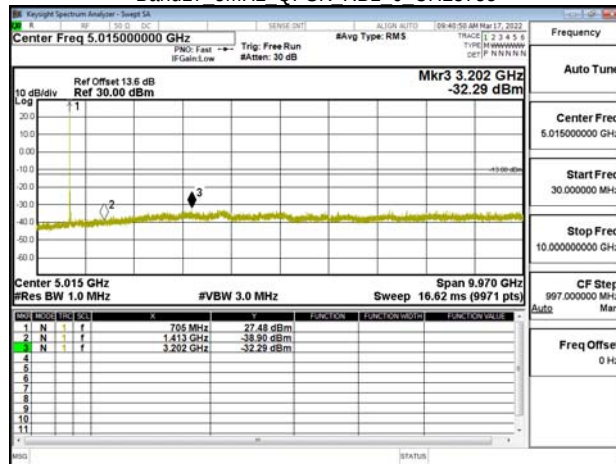
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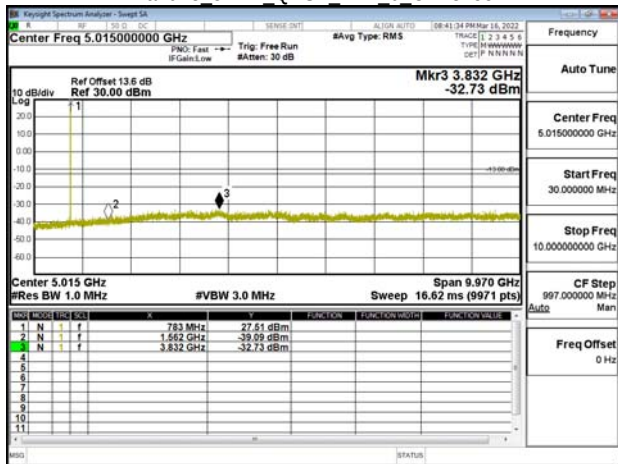
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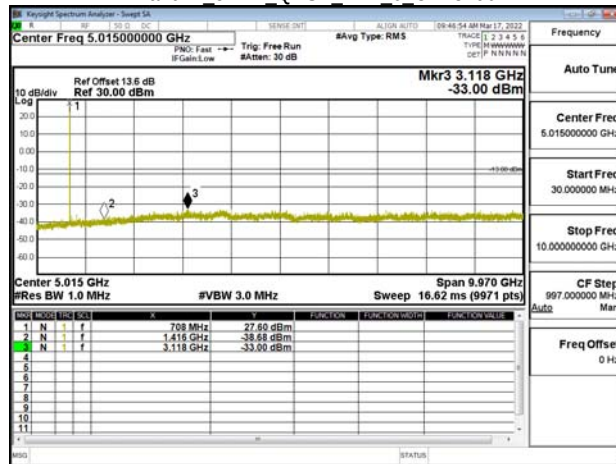
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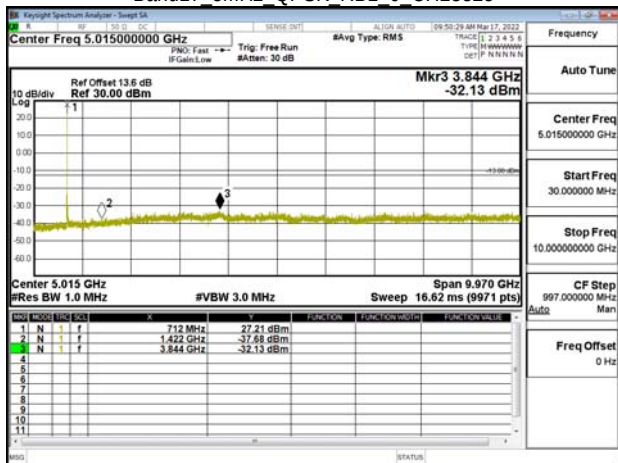


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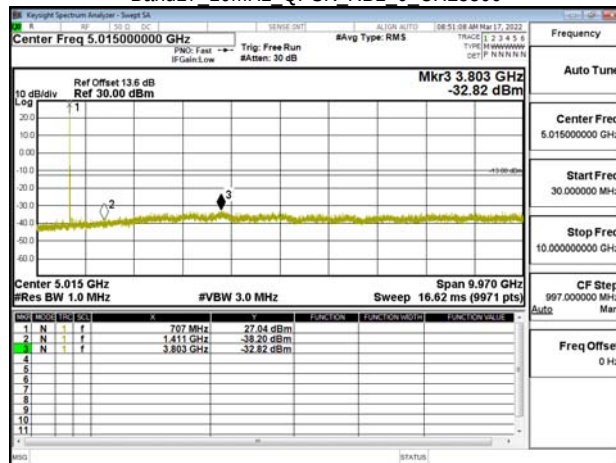
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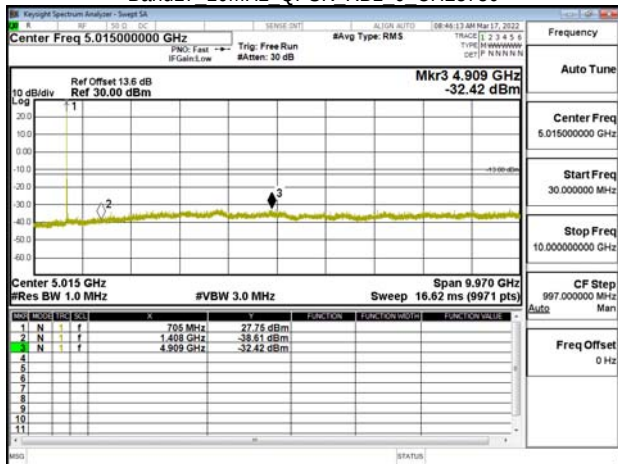
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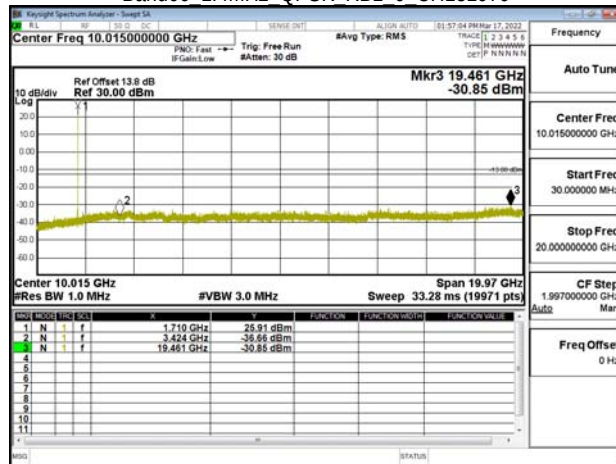
Band17 10MHz QPSK RB1 0 CH23800



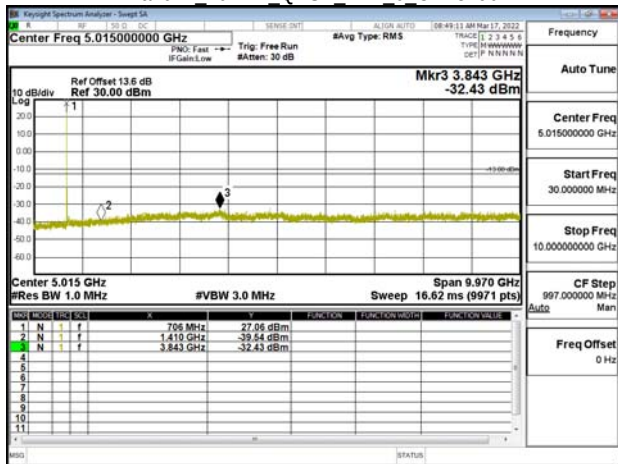
Band17 10MHz QPSK RB1 0 CH23780



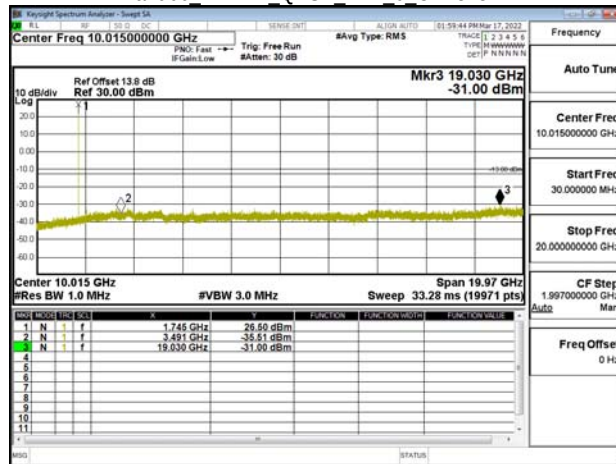
Band66 1.4MHz QPSK RB1 0 CH131979



Band17 10MHz QPSK RB1 0 CH23790



Band66 1.4MHz QPSK RB1 0 CH132322

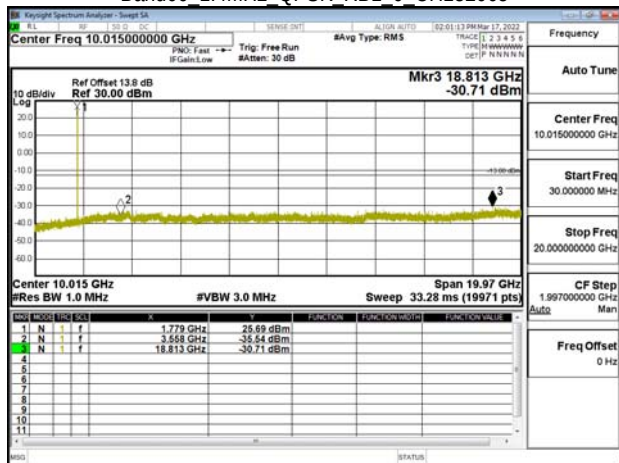


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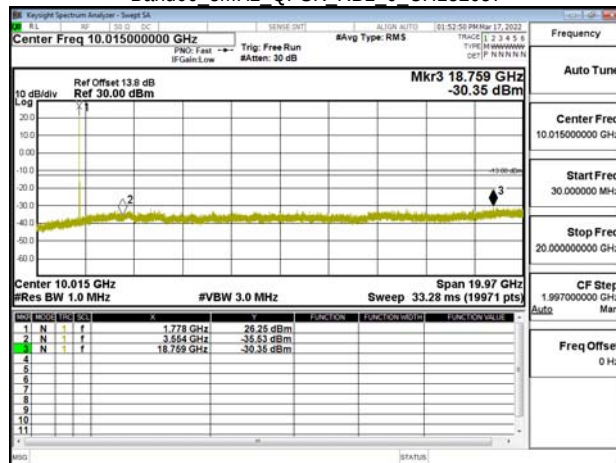
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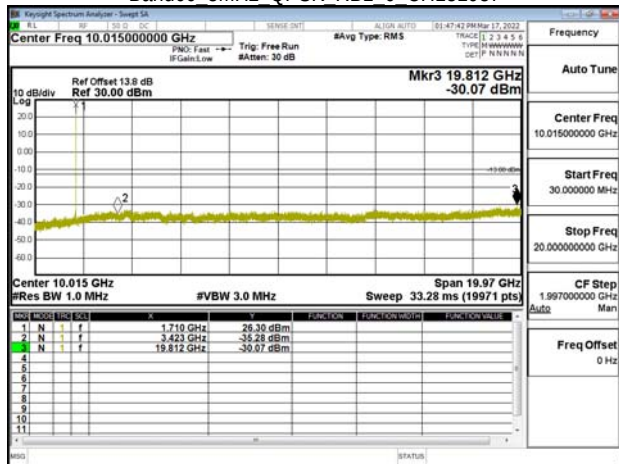
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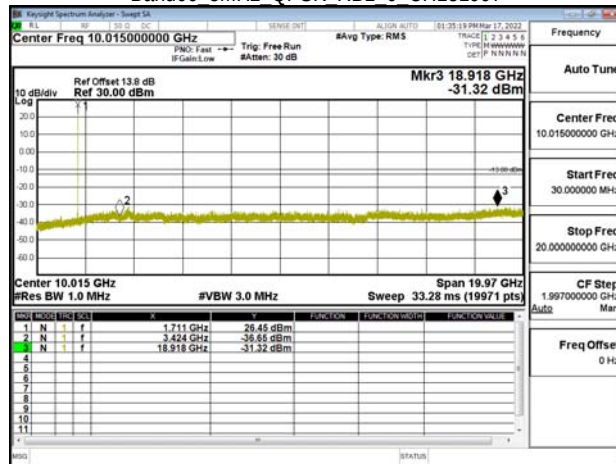
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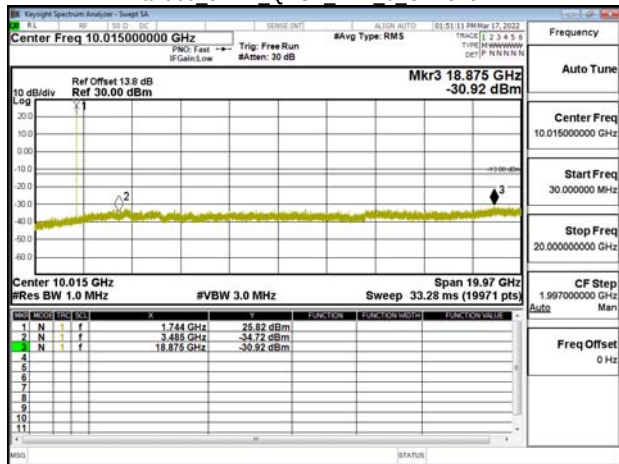
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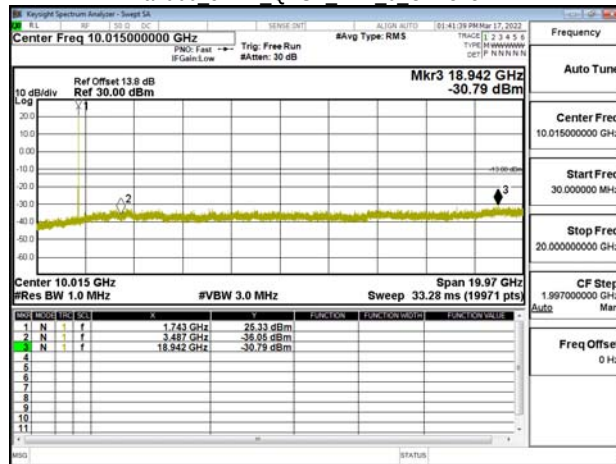
Band66 5MHz QPSK RB1 0 CH131997



Band66 3MHz QPSK RB1 0 CH132322



Band66 5MHz QPSK RB1 0 CH132322

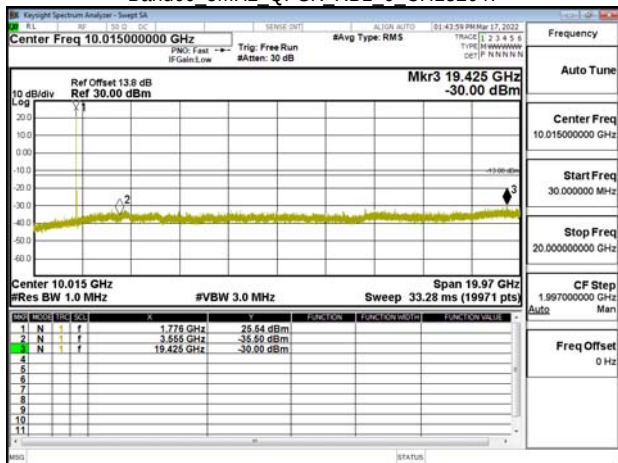


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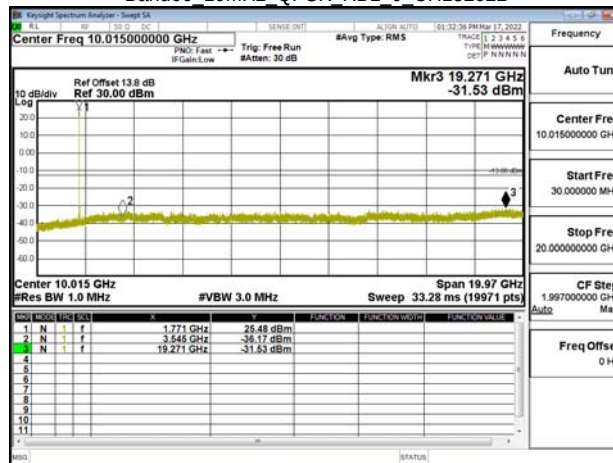
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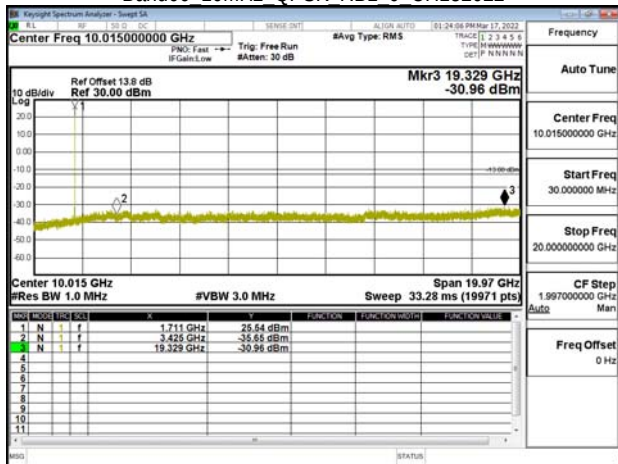
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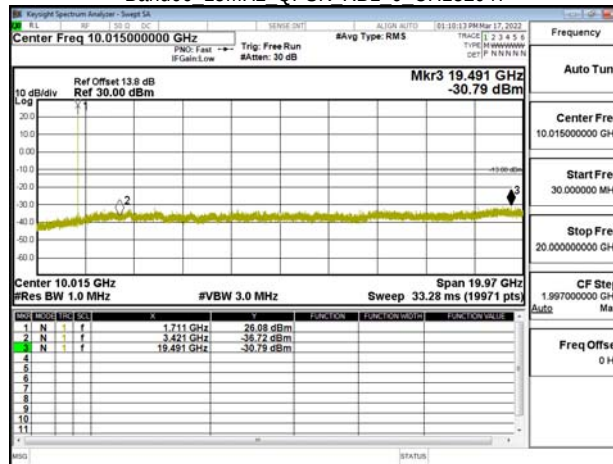
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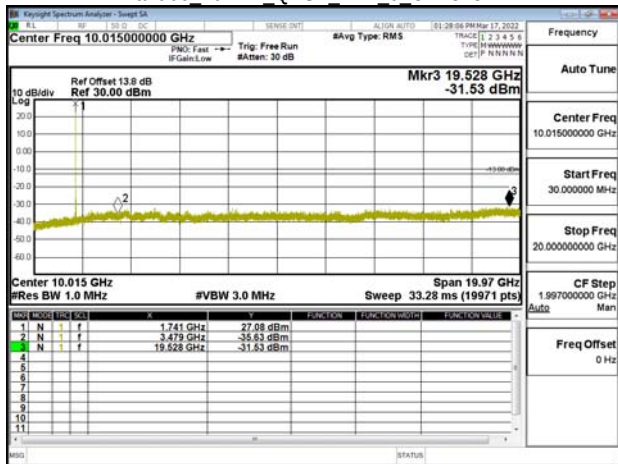
Band66 10MHz QPSK RB1 0 CH132022



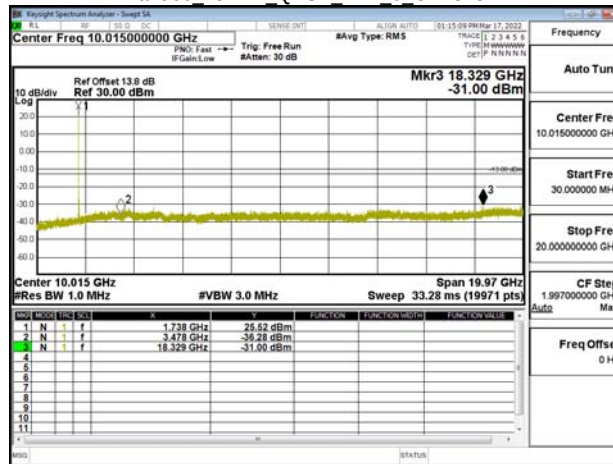
Band66 15MHz QPSK RB1 0 CH132047



Band66 10MHz QPSK RB1 0 CH132322



Band66 15MHz QPSK RB1 0 CH132322

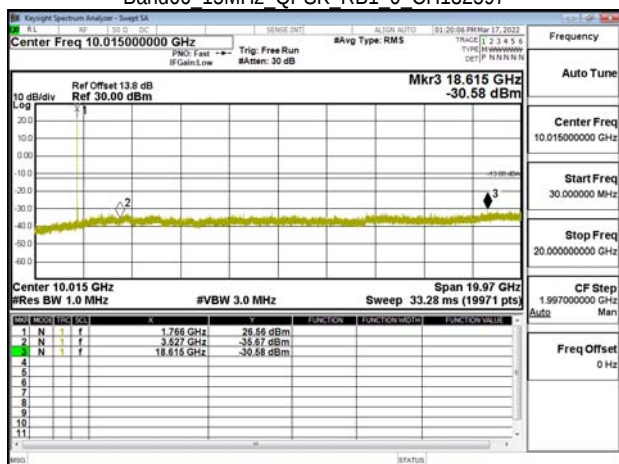


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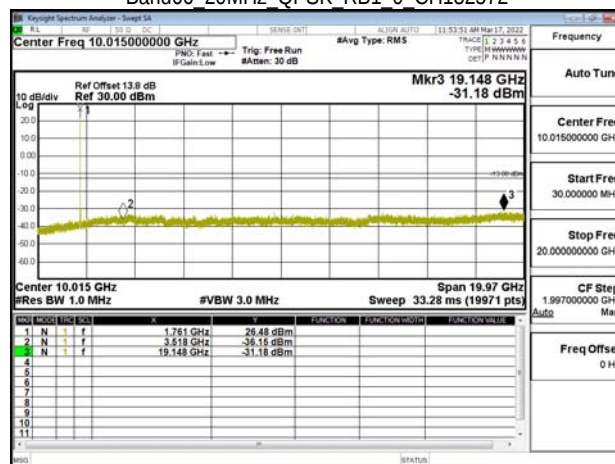
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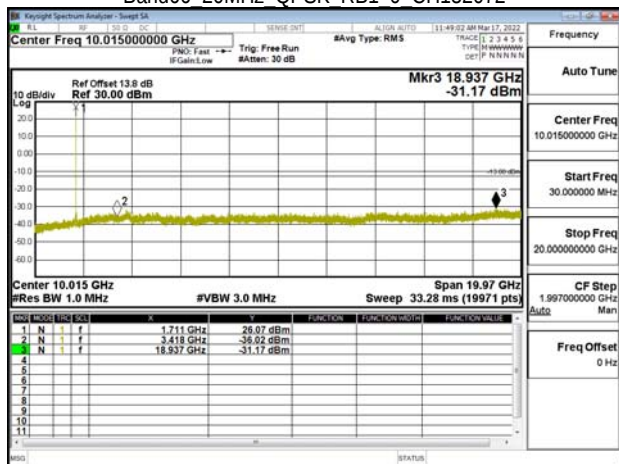
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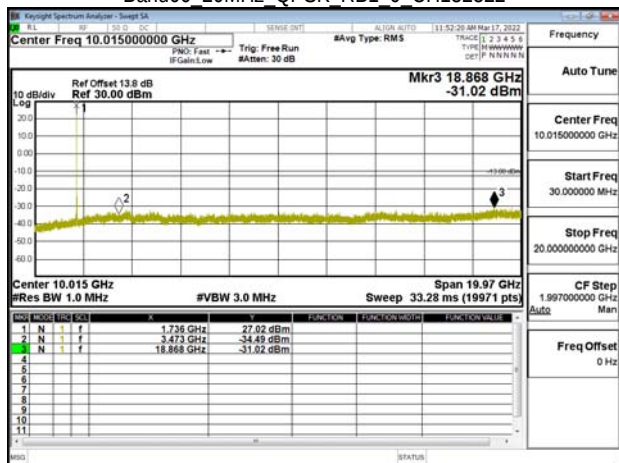
Band66 20MHz QPSK RB1 0 CH132572



Band66 20MHz QPSK RB1 0 CH132072



Band66 20MHz QPSK RB1 0 CH132322



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6

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.

RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

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- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 §6.6

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

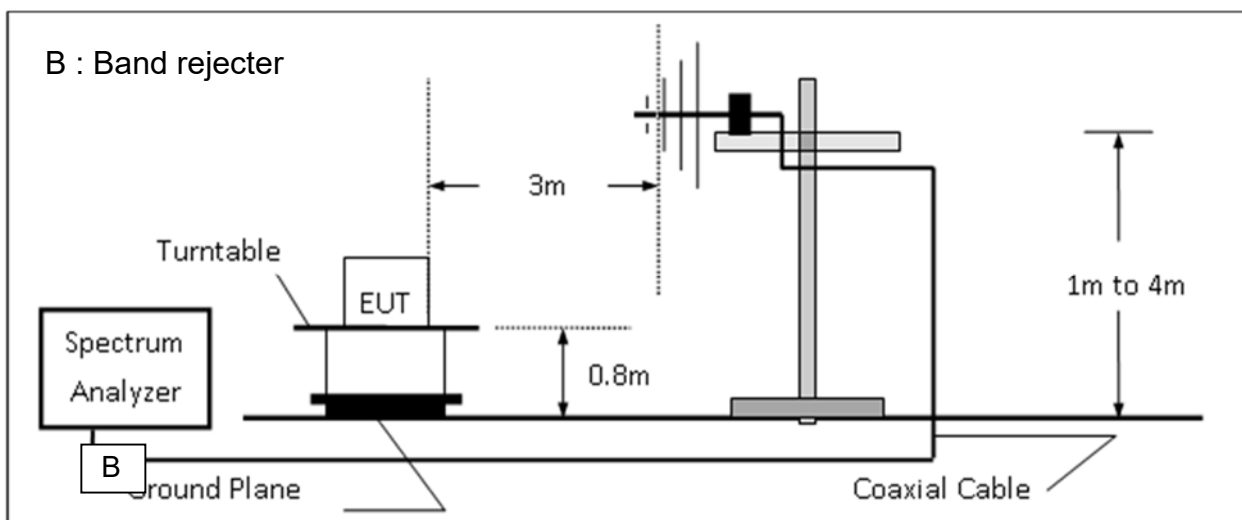
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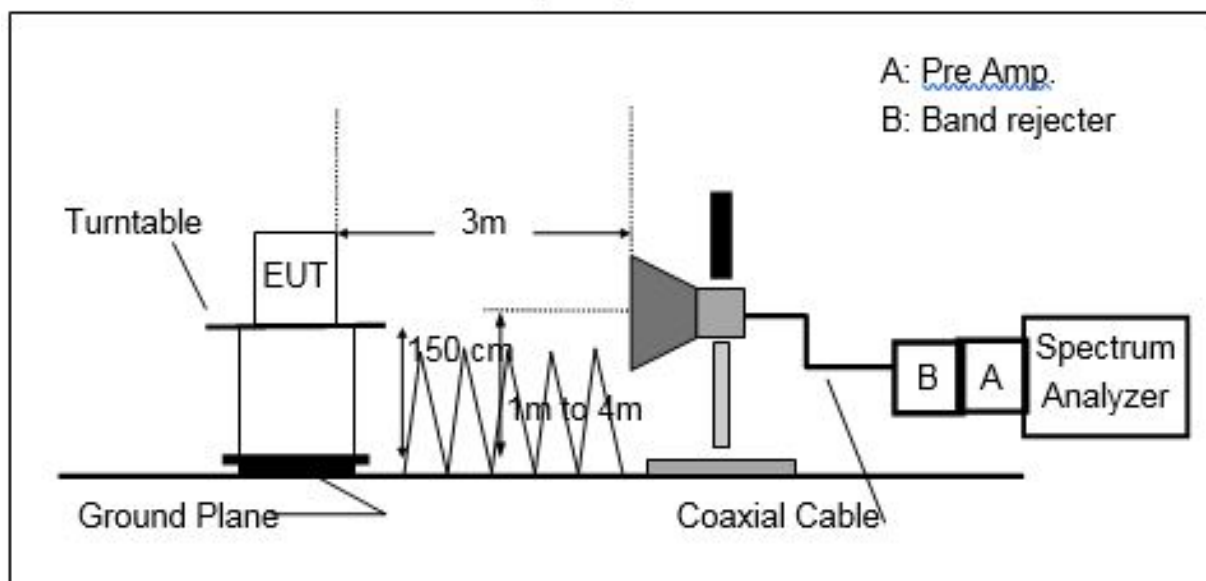
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10.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

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10.4 Measurement Result:

Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B2

Test Date :2022-03-22

Test Mode :TX CH LOW

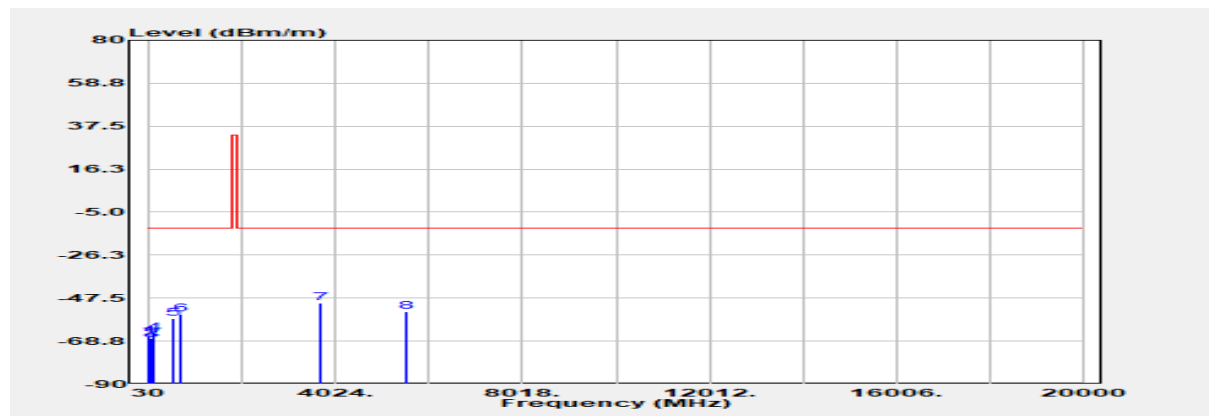
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1852.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-66.47	-51.25	-14.77	-0.45	-13.00	-53.47
82.380	-67.57	-59.33	-7.71	-0.53	-13.00	-54.57
110.510	-68.13	-61.05	-6.47	-0.61	-13.00	-55.13
176.470	-64.99	-59.79	-4.41	-0.79	-13.00	-51.99
593.570	-57.75	-55.2	-1.14	-1.41	-13.00	-44.75
734.220	-55.37	-52.2	-1.20	-1.97	-13.00	-42.37
3705.000	-49.86	-58.31	12.31	-3.86	-13.00	-36.86
5557.500	-54.42	-62.79	12.92	-4.55	-13.00	-41.42

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B2

Test Date :2022-03-22

Test Mode :TX CH LOW

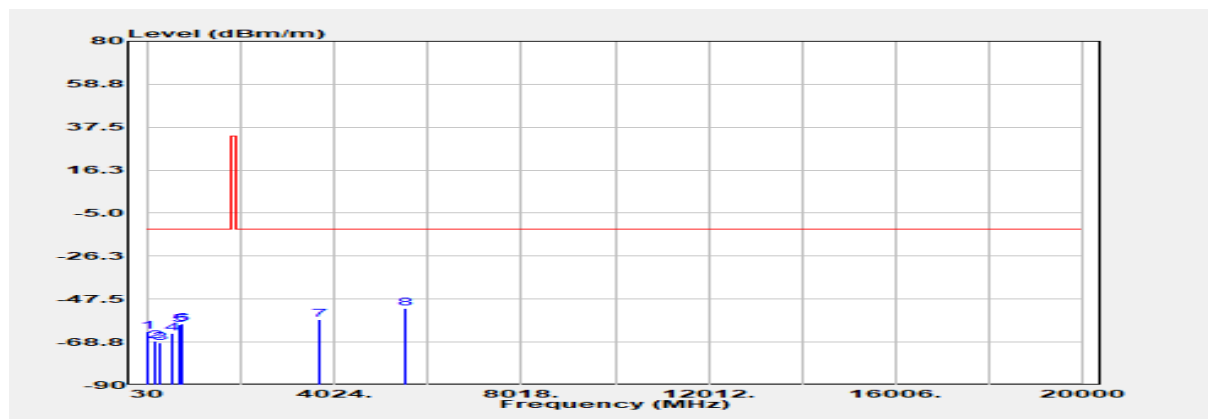
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1852.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-63.57	-43.69	-19.56	-0.32	-13.00	-50.57
182.290	-68.33	-64.23	-3.30	-0.80	-13.00	-55.33
302.570	-69.28	-67.22	-0.97	-1.09	-13.00	-56.28
584.840	-64.31	-61.66	-1.00	-1.65	-13.00	-51.31
734.220	-60.34	-57.17	-1.20	-1.97	-13.00	-47.34
776.900	-59.80	-56.84	-1.57	-1.39	-13.00	-46.80
3705.000	-57.55	-66	12.31	-3.86	-13.00	-44.55
5557.500	-52.07	-60.44	12.92	-4.55	-13.00	-39.07

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Report Number :E2/2022/20116

Operation Mode :LTE B2

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :1880 MHz

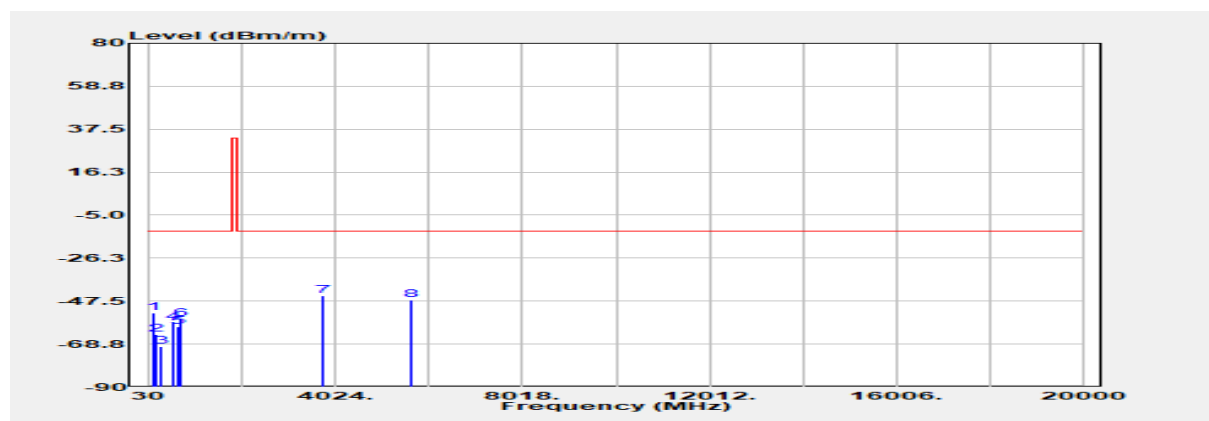
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
178.410	-53.48	-48.62	-4.07	-0.79	-13.00	-40.48
227.880	-64.04	-63.32	0.18	-0.90	-13.00	-51.04
300.630	-69.88	-67.82	-0.99	-1.07	-13.00	-56.88
589.690	-58.23	-55.59	-1.11	-1.53	-13.00	-45.23
672.140	-60.14	-57.47	-0.99	-1.68	-13.00	-47.14
737.130	-56.19	-52.98	-1.27	-1.94	-13.00	-43.19
3760.000	-44.83	-53.49	12.40	-3.74	-13.00	-31.83
5640.000	-46.77	-55.02	13.00	-4.75	-13.00	-33.77

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Report Number :E2/2022/20116

Operation Mode :LTE B2

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :1880 MHz

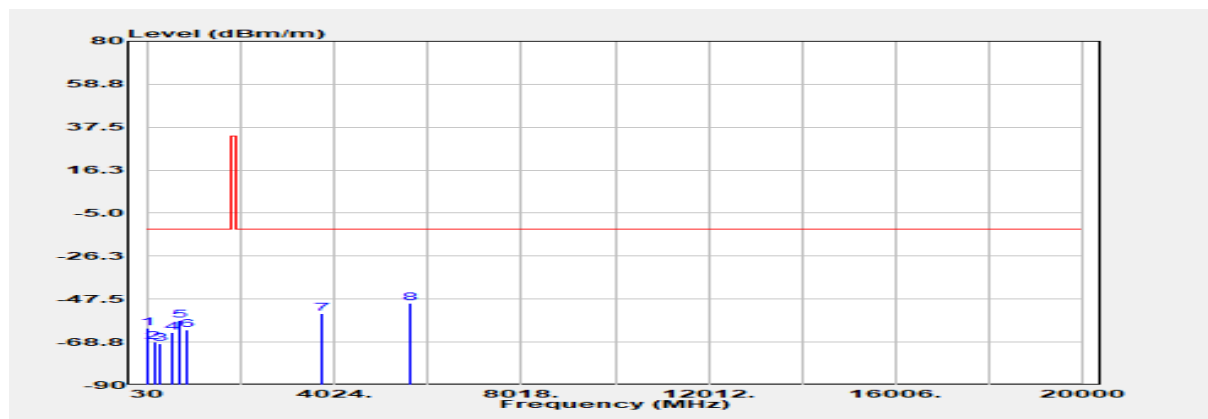
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-62.02	-42.14	-19.56	-0.32	-13.00	-49.02
181.320	-68.83	-64.52	-3.51	-0.80	-13.00	-55.83
297.720	-69.66	-67.58	-1.02	-1.06	-13.00	-56.66
596.480	-63.90	-61.39	-1.19	-1.32	-13.00	-50.90
737.130	-58.19	-54.98	-1.27	-1.94	-13.00	-45.19
867.110	-62.76	-59.98	-1.18	-1.60	-13.00	-49.76
3760.000	-54.53	-63.19	12.40	-3.74	-13.00	-41.53
5640.000	-49.45	-57.7	13.00	-4.75	-13.00	-36.45

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B2

Test Date :2022-03-22

Test Mode :TX CH HIGH

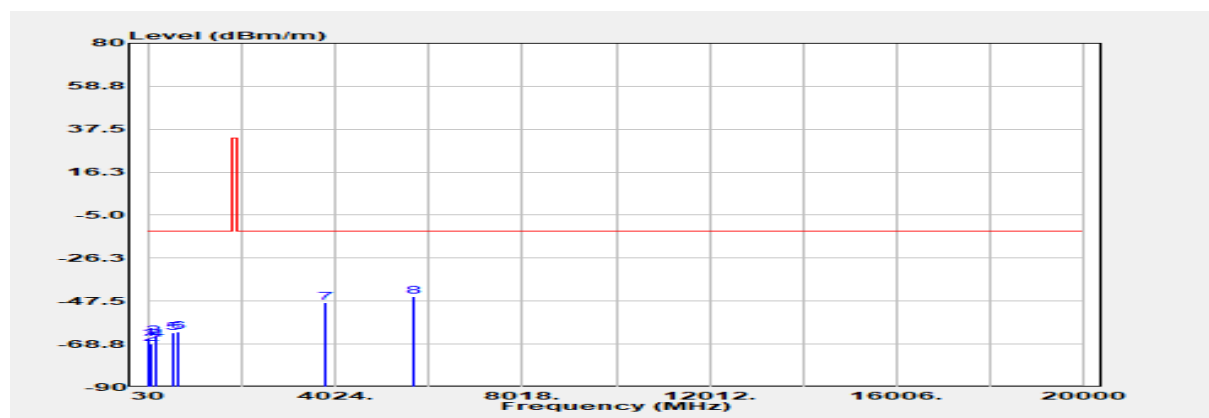
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1907.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-66.24	-51.02	-14.77	-0.45	-13.00	-53.24
109.540	-68.89	-61.82	-6.46	-0.61	-13.00	-55.89
181.320	-64.66	-60.35	-3.51	-0.80	-13.00	-51.66
226.910	-66.63	-65.96	0.22	-0.89	-13.00	-53.63
570.290	-63.06	-60.45	-0.83	-1.78	-13.00	-50.06
674.080	-62.69	-60.1	-0.96	-1.63	-13.00	-49.69
3815.000	-48.12	-56.7	12.37	-3.79	-13.00	-35.12
5722.500	-45.17	-53.24	12.80	-4.73	-13.00	-32.17

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B2

Test Date :2022-03-22

Test Mode :TX CH HIGH

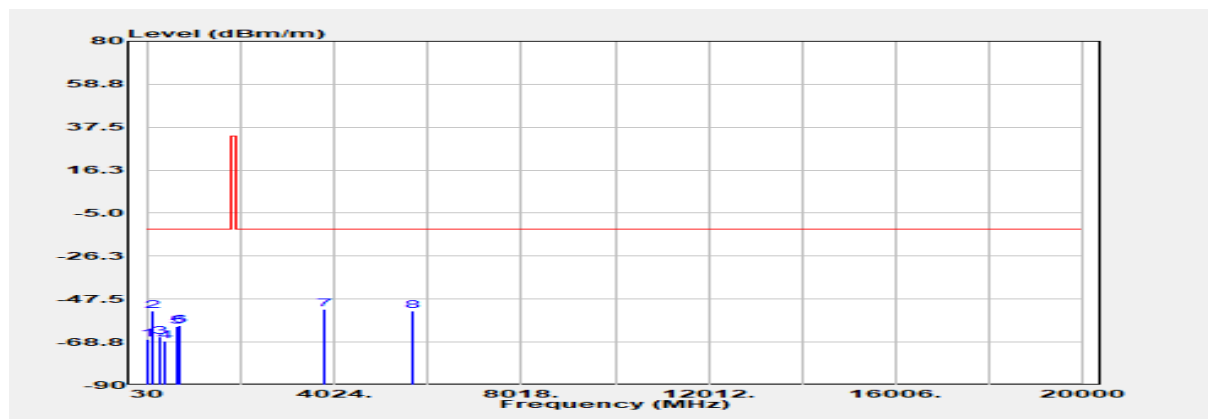
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1907.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-67.55	-47.91	-19.31	-0.33	-13.00	-54.55
179.380	-53.22	-48.5	-3.92	-0.80	-13.00	-40.22
299.660	-65.95	-63.88	-1.00	-1.07	-13.00	-52.95
401.510	-68.35	-66.32	-0.63	-1.40	-13.00	-55.35
660.500	-61.22	-58.4	-0.96	-1.86	-13.00	-48.22
745.860	-60.51	-57.22	-1.51	-1.78	-13.00	-47.51
3815.000	-52.70	-61.28	12.37	-3.79	-13.00	-39.70
5722.500	-53.27	-61.34	12.80	-4.73	-13.00	-40.27

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B4

Test Date :2022-03-22

Test Mode :TX CH LOW

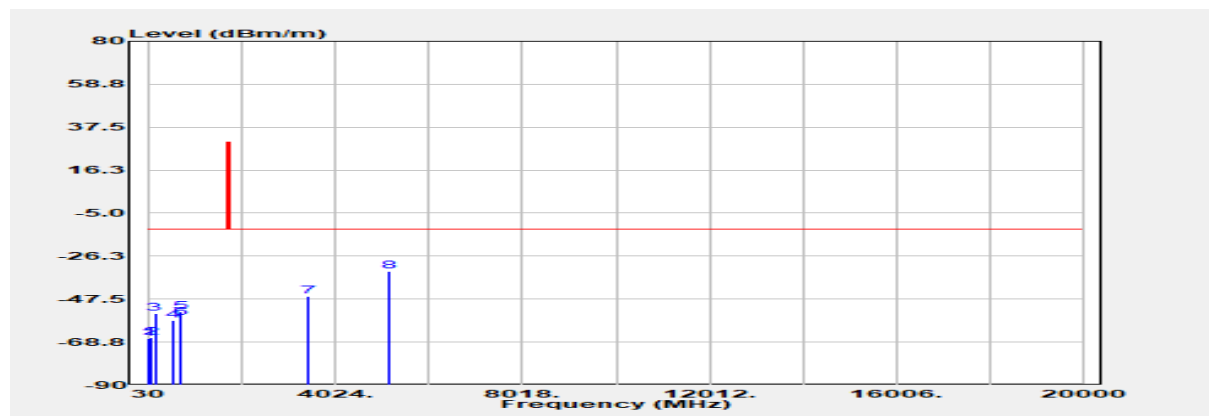
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1717.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-66.79	-51.73	-14.61	-0.45	-13.00	-53.79
108.570	-66.49	-59.6	-6.28	-0.61	-13.00	-53.49
181.320	-54.53	-50.22	-3.51	-0.80	-13.00	-41.53
587.750	-57.86	-55.21	-1.07	-1.58	-13.00	-44.86
737.130	-53.79	-50.58	-1.27	-1.94	-13.00	-40.79
745.860	-56.63	-53.34	-1.51	-1.78	-13.00	-43.63
3435.000	-46.21	-55.07	12.53	-3.67	-13.00	-33.21
5152.500	-33.83	-41.46	12.12	-4.49	-13.00	-20.83

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Report Number :E2/2022/20116

Operation Mode :LTE B4

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :1717.5 MHz

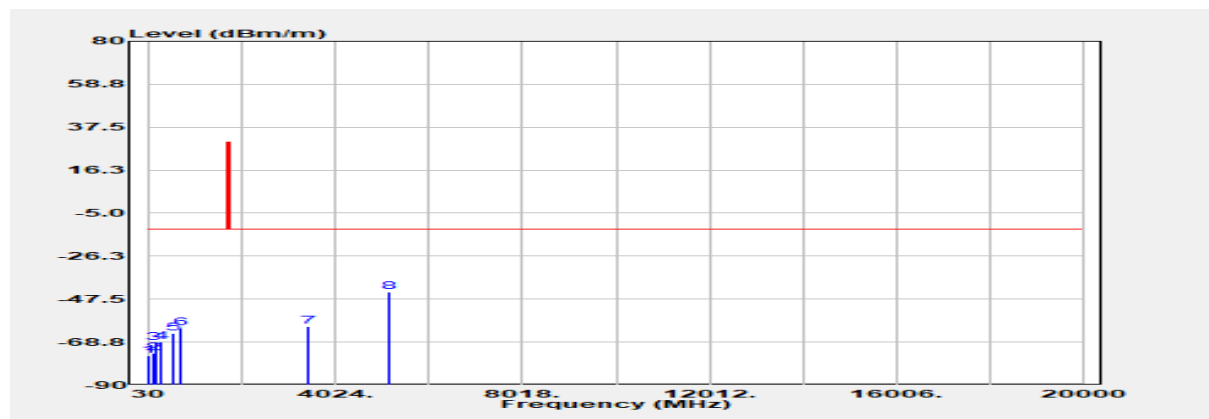
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-75.41	-60.19	-14.77	-0.45	-13.00	-62.41
142.520	-74.35	-66.67	-7.01	-0.67	-13.00	-61.35
180.350	-68.96	-64.41	-3.75	-0.80	-13.00	-55.96
297.720	-68.90	-66.82	-1.02	-1.06	-13.00	-55.90
589.690	-64.33	-61.69	-1.11	-1.53	-13.00	-51.33
733.250	-61.99	-58.82	-1.20	-1.97	-13.00	-48.99
3435.000	-61.20	-70.06	12.53	-3.67	-13.00	-48.20
5152.500	-43.93	-51.56	12.12	-4.49	-13.00	-30.93

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B4

Test Date :2022-03-22

Test Mode :TX CH MID

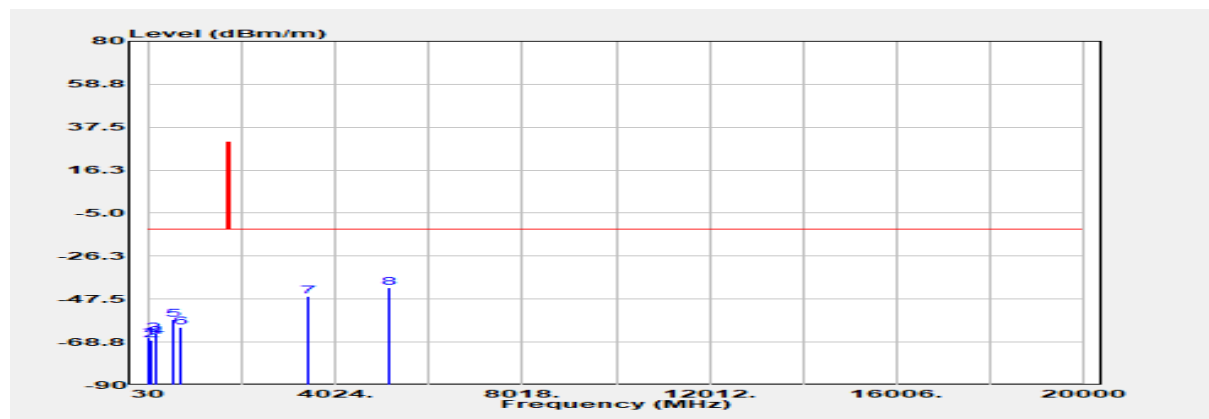
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1732.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-66.48	-51.42	-14.61	-0.45	-13.00	-53.48
108.570	-68.06	-61.17	-6.28	-0.61	-13.00	-55.06
181.320	-64.29	-59.98	-3.51	-0.80	-13.00	-51.29
226.910	-66.34	-65.67	0.22	-0.89	-13.00	-53.34
594.540	-57.53	-55	-1.15	-1.38	-13.00	-44.53
732.280	-61.66	-58.49	-1.19	-1.98	-13.00	-48.66
3465.000	-45.92	-54.7	12.47	-3.69	-13.00	-32.92
5197.500	-41.71	-49.6	12.39	-4.50	-13.00	-28.71

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B4

Test Date :2022-03-22

Test Mode :TX CH MID

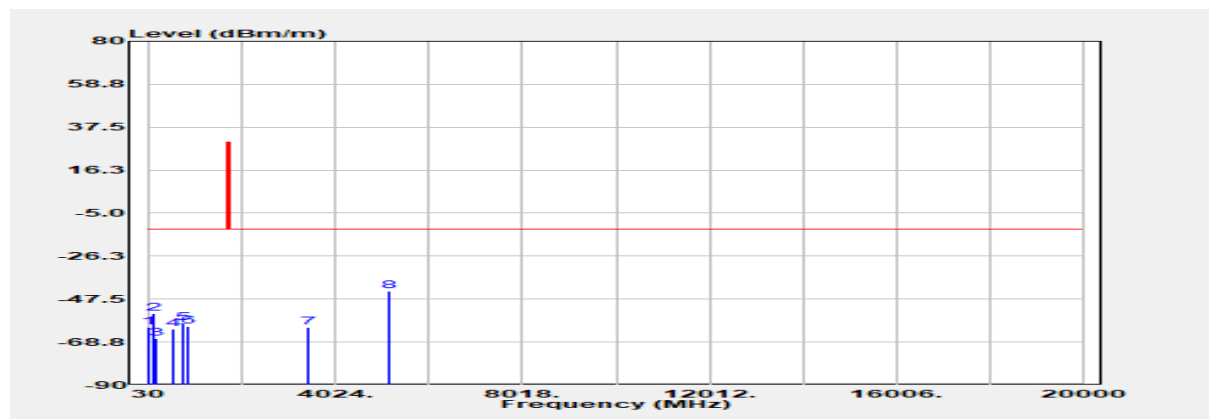
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1732.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.31	-41.43	-19.56	-0.32	-13.00	-48.31
177.440	-54.50	-49.5	-4.21	-0.79	-13.00	-41.50
230.790	-66.80	-65.91	0.01	-0.90	-13.00	-53.80
592.600	-62.35	-59.77	-1.14	-1.44	-13.00	-49.35
774.960	-59.14	-56.2	-1.55	-1.39	-13.00	-46.14
865.170	-61.08	-58.3	-1.20	-1.58	-13.00	-48.08
3465.000	-61.48	-70.26	12.47	-3.69	-13.00	-48.48
5197.500	-43.70	-51.59	12.39	-4.50	-13.00	-30.70

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B4

Test Date :2022-03-22

Test Mode :TX CH HIGH

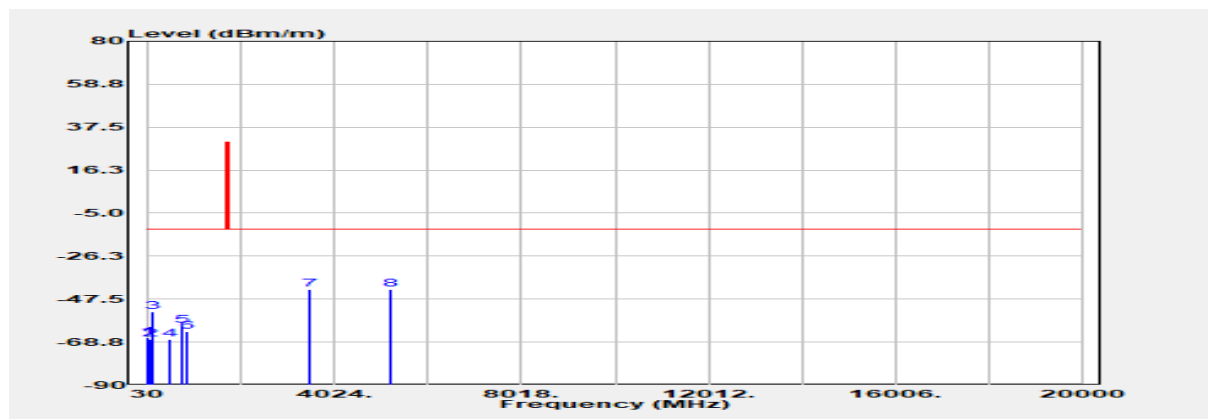
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1747.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-66.52	-51.3	-14.77	-0.45	-13.00	-53.52
107.600	-67.43	-60.53	-6.30	-0.60	-13.00	-54.43
178.410	-53.70	-48.84	-4.07	-0.79	-13.00	-40.70
505.300	-67.30	-65.14	-0.77	-1.39	-13.00	-54.30
774.960	-60.77	-57.83	-1.55	-1.39	-13.00	-47.77
863.230	-63.59	-60.8	-1.22	-1.57	-13.00	-50.59
3495.000	-42.55	-51.36	12.41	-3.60	-13.00	-29.55
5242.500	-42.73	-51	12.74	-4.47	-13.00	-29.73

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B4

Test Date :2022-03-22

Test Mode :TX CH HIGH

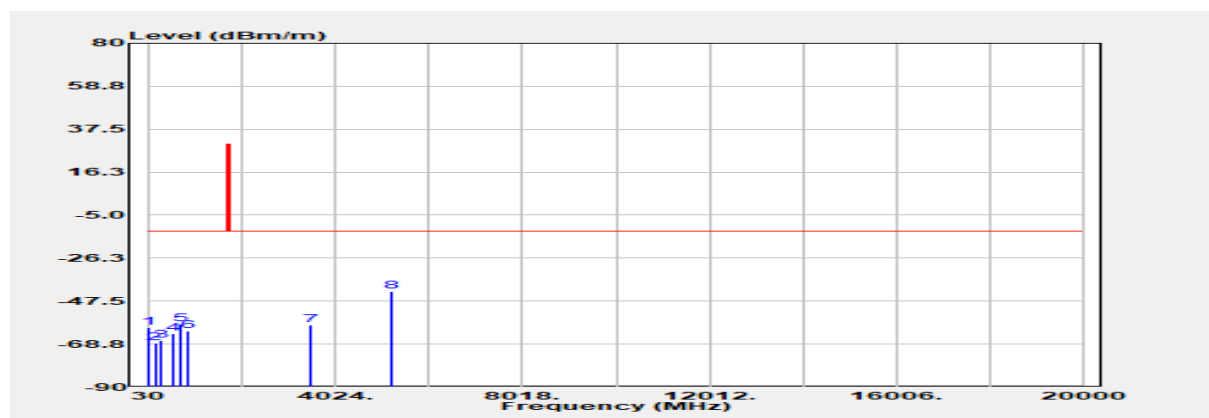
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1747.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-60.70	-40.82	-19.56	-0.32	-13.00	-47.70
180.350	-68.16	-63.61	-3.75	-0.80	-13.00	-55.16
296.750	-66.99	-64.91	-1.03	-1.05	-13.00	-53.99
593.570	-63.42	-60.87	-1.14	-1.41	-13.00	-50.42
740.040	-58.90	-55.62	-1.36	-1.92	-13.00	-45.90
866.140	-62.34	-59.56	-1.19	-1.59	-13.00	-49.34
3495.000	-59.13	-67.94	12.41	-3.60	-13.00	-46.13
5242.500	-42.68	-50.95	12.74	-4.47	-13.00	-29.68

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B5

Test Date :2022-03-22

Test Mode :TX CH LOW

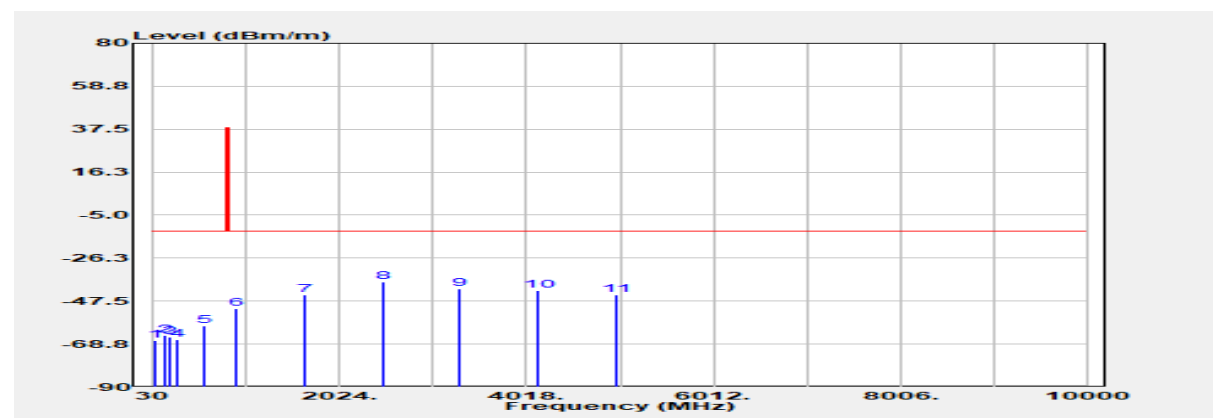
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :829 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-66.89	-51.62	-14.82	-0.45	-13.00	-53.89
182.290	-64.30	-60.2	-3.30	-0.80	-13.00	-51.30
220.120	-65.09	-64.23	0.02	-0.88	-13.00	-52.09
305.480	-66.75	-64.68	-0.96	-1.11	-13.00	-53.75
599.390	-59.62	-57.13	-1.26	-1.23	-13.00	-46.62
922.400	-51.03	-47.81	-1.39	-1.83	-13.00	-38.03
1658.000	-44.34	-51.35	9.52	-2.51	-13.00	-31.34
2487.000	-38.22	-45.75	10.57	-3.04	-13.00	-25.22
3316.000	-41.25	-50.16	12.50	-3.59	-13.00	-28.25
4145.000	-42.48	-50.83	12.40	-4.05	-13.00	-29.48
4974.000	-44.46	-52.54	12.50	-4.42	-13.00	-31.46

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Report Number :E2/2022/20116

Operation Mode :LTE B5

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :829 MHz

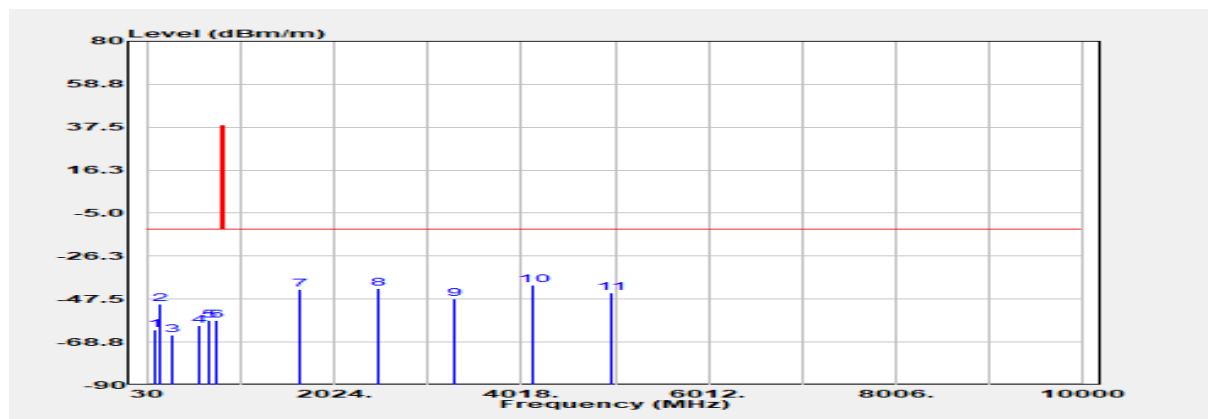
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-62.80	-55.73	-6.46	-0.61	-13.00	-49.80
179.380	-50.04	-45.32	-3.92	-0.80	-13.00	-37.04
296.750	-65.13	-63.05	-1.03	-1.05	-13.00	-52.13
592.600	-60.76	-58.18	-1.14	-1.44	-13.00	-47.76
680.870	-58.06	-55.71	-0.90	-1.45	-13.00	-45.06
778.840	-58.05	-55.08	-1.59	-1.38	-13.00	-45.05
1658.000	-42.65	-49.66	9.52	-2.51	-13.00	-29.65
2487.000	-42.19	-49.72	10.57	-3.04	-13.00	-29.19
3316.000	-47.32	-56.23	12.50	-3.59	-13.00	-34.32
4145.000	-40.49	-48.84	12.40	-4.05	-13.00	-27.49
4974.000	-44.53	-52.61	12.50	-4.42	-13.00	-31.53

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Report Number :E2/2022/20116

Operation Mode :LTE B5

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :836.5 MHz

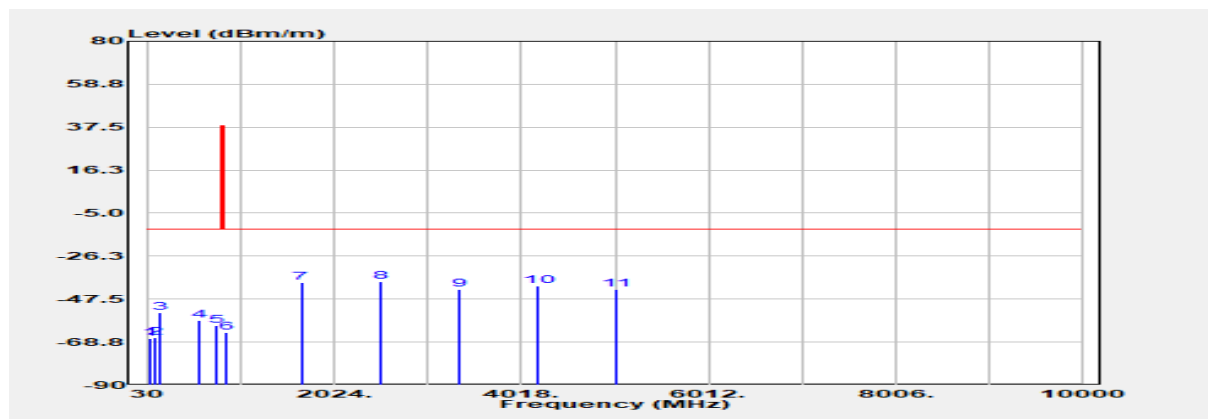
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-67.03	-51.81	-14.77	-0.45	-13.00	-54.03
109.540	-66.65	-59.58	-6.46	-0.61	-13.00	-53.65
179.380	-54.09	-49.37	-3.92	-0.80	-13.00	-41.09
590.660	-58.15	-55.53	-1.12	-1.50	-13.00	-45.15
773.990	-60.55	-57.62	-1.54	-1.39	-13.00	-47.55
875.840	-64.01	-61.14	-1.17	-1.70	-13.00	-51.01
1673.000	-39.41	-46.46	9.55	-2.50	-13.00	-26.41
2509.500	-38.67	-46.23	10.62	-3.06	-13.00	-25.67
3346.000	-42.81	-51.8	12.68	-3.69	-13.00	-29.81
4182.500	-41.20	-49.66	12.47	-4.01	-13.00	-28.20
5019.000	-42.91	-50.85	12.35	-4.41	-13.00	-29.91

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Report Number :E2/2022/20116

Operation Mode :LTE B5

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :836.5 MHz

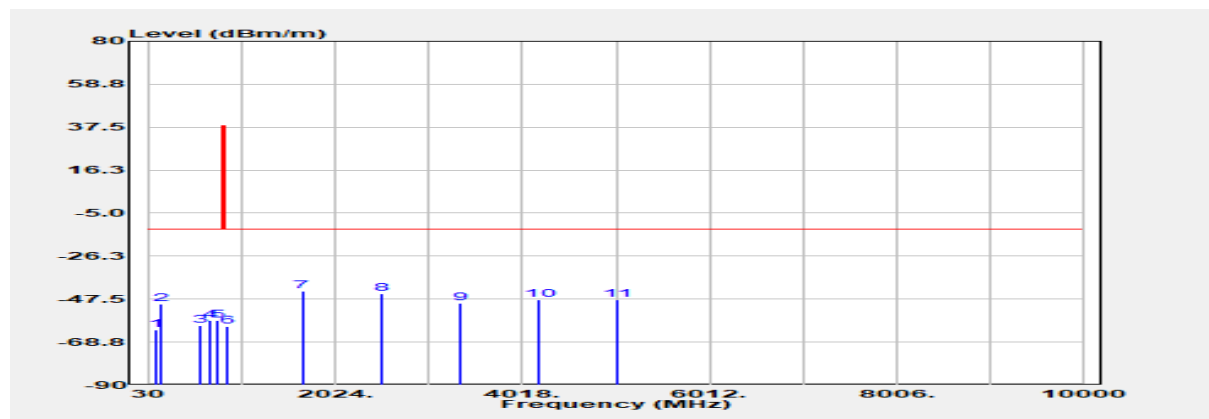
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-62.80	-55.73	-6.46	-0.61	-13.00	-49.80
179.380	-50.04	-45.32	-3.92	-0.80	-13.00	-37.04
592.600	-60.76	-58.18	-1.14	-1.44	-13.00	-47.76
680.870	-58.06	-55.71	-0.90	-1.45	-13.00	-45.06
778.840	-58.05	-55.08	-1.59	-1.38	-13.00	-45.05
869.050	-61.10	-58.33	-1.16	-1.61	-13.00	-48.10
1673.000	-43.51	-50.56	9.55	-2.50	-13.00	-30.51
2509.500	-44.84	-52.4	10.62	-3.06	-13.00	-31.84
3346.000	-49.72	-58.71	12.68	-3.69	-13.00	-36.72
4182.500	-48.00	-56.46	12.47	-4.01	-13.00	-35.00
5019.000	-47.70	-55.64	12.35	-4.41	-13.00	-34.70

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B5

Test Date :2022-03-22

Test Mode :TX CH HIGH

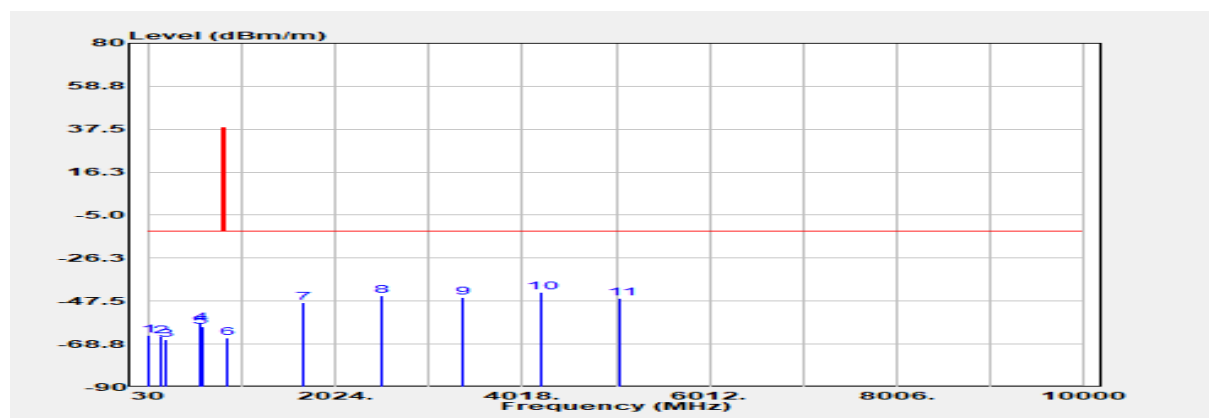
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :844 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-64.33	-44.09	-19.92	-0.32	-13.00	-51.33
181.320	-64.77	-60.46	-3.51	-0.80	-13.00	-51.77
228.850	-66.70	-65.94	0.14	-0.90	-13.00	-53.70
592.600	-58.67	-56.09	-1.14	-1.44	-13.00	-45.67
601.330	-60.33	-57.82	-1.31	-1.20	-13.00	-47.33
865.170	-65.79	-63.01	-1.20	-1.58	-13.00	-52.79
1688.000	-48.29	-55.38	9.58	-2.49	-13.00	-35.29
2532.000	-44.97	-52.56	10.66	-3.07	-13.00	-31.97
3376.000	-45.53	-54.59	12.65	-3.59	-13.00	-32.53
4220.000	-43.16	-51.6	12.46	-4.02	-13.00	-30.16
5064.000	-46.27	-53.94	12.10	-4.43	-13.00	-33.27

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B5

Test Date :2022-03-22

Test Mode :TX CH HIGH

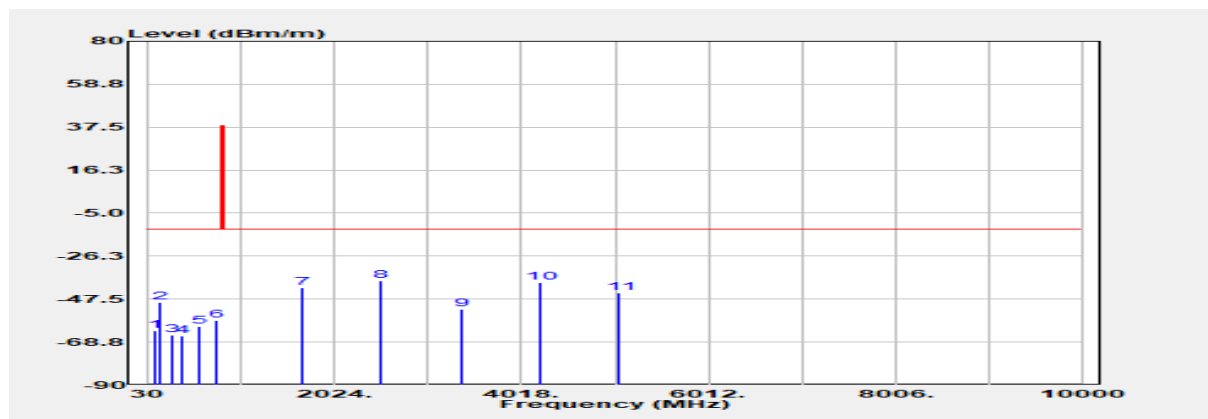
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :844 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.600	-63.06	-56.16	-6.30	-0.60	-13.00	-50.06
178.410	-49.19	-44.33	-4.07	-0.79	-13.00	-36.19
297.720	-65.46	-63.38	-1.02	-1.06	-13.00	-52.46
405.390	-65.89	-63.8	-0.68	-1.41	-13.00	-52.89
592.600	-60.99	-58.41	-1.14	-1.44	-13.00	-47.99
778.840	-58.24	-55.27	-1.59	-1.38	-13.00	-45.24
1688.000	-41.93	-49.02	9.58	-2.49	-13.00	-28.93
2532.000	-38.55	-46.14	10.66	-3.07	-13.00	-25.55
3376.000	-52.61	-61.67	12.65	-3.59	-13.00	-39.61
4220.000	-39.39	-47.83	12.46	-4.02	-13.00	-26.39
5064.000	-44.49	-52.16	12.10	-4.43	-13.00	-31.49

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B12

Test Date :2022-03-22

Test Mode :TX CH LOW

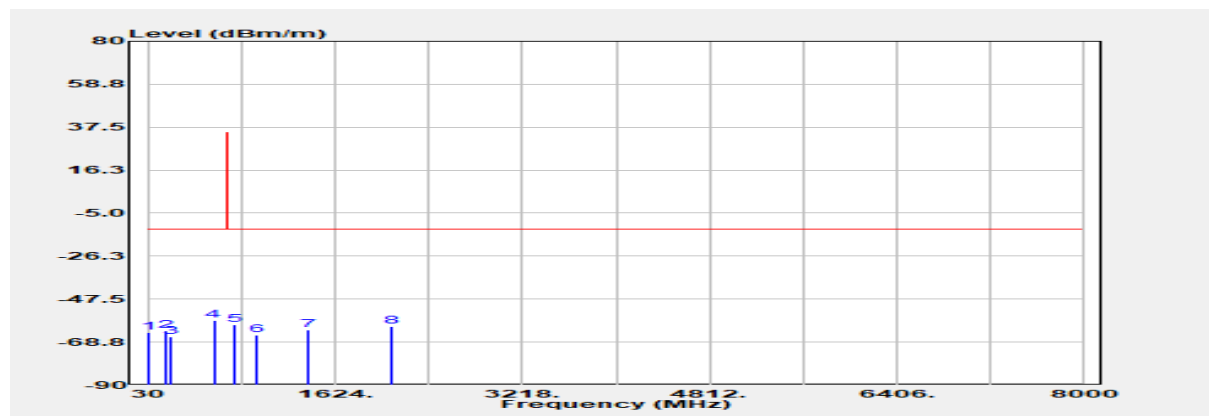
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :700.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-63.98	-44.1	-19.56	-0.32	-13.00	-50.98
182.290	-63.16	-59.06	-3.30	-0.80	-13.00	-50.16
226.910	-65.96	-65.29	0.22	-0.89	-13.00	-52.96
591.630	-58.22	-55.62	-1.13	-1.47	-13.00	-45.22
773.990	-60.18	-57.25	-1.54	-1.39	-13.00	-47.18
953.440	-65.16	-61.99	-1.36	-1.81	-13.00	-52.16
1401.000	-62.93	-68.27	7.61	-2.27	-13.00	-49.93
2101.500	-61.17	-68.26	9.88	-2.79	-13.00	-48.17

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Report Number :E2/2022/20116

Operation Mode :LTE B12

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :700.5 MHz

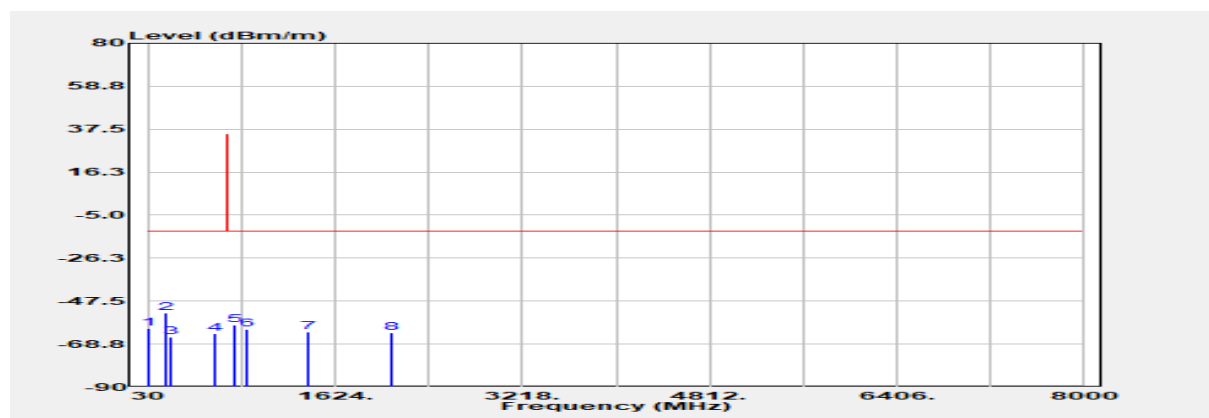
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.12	-41.24	-19.56	-0.32	-13.00	-48.12
177.440	-53.49	-48.49	-4.21	-0.79	-13.00	-40.49
226.910	-65.08	-64.41	0.22	-0.89	-13.00	-52.08
597.450	-63.62	-61.12	-1.21	-1.29	-13.00	-50.62
774.960	-59.42	-56.48	-1.55	-1.39	-13.00	-46.42
870.990	-61.65	-58.86	-1.16	-1.63	-13.00	-48.65
1401.000	-62.62	-67.96	7.61	-2.27	-13.00	-49.62
2101.500	-63.12	-70.21	9.88	-2.79	-13.00	-50.12

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Report Number :E2/2022/20116

Operation Mode :LTE B12

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :707.5 MHz

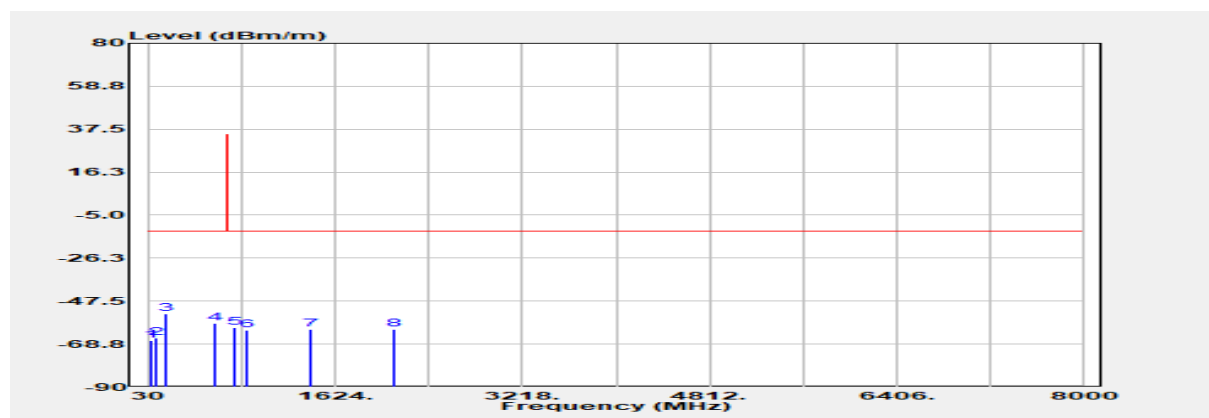
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-67.14	-52.08	-14.61	-0.45	-13.00	-54.14
110.510	-65.90	-58.82	-6.47	-0.61	-13.00	-52.90
180.350	-53.92	-49.37	-3.75	-0.80	-13.00	-40.92
594.540	-58.42	-55.89	-1.15	-1.38	-13.00	-45.42
774.960	-60.60	-57.66	-1.55	-1.39	-13.00	-47.60
866.140	-61.77	-58.99	-1.19	-1.59	-13.00	-48.77
1415.000	-61.45	-66.89	7.72	-2.28	-13.00	-48.45
2122.500	-61.64	-68.47	9.63	-2.80	-13.00	-48.64

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B12

Test Date :2022-03-22

Test Mode :TX CH MID

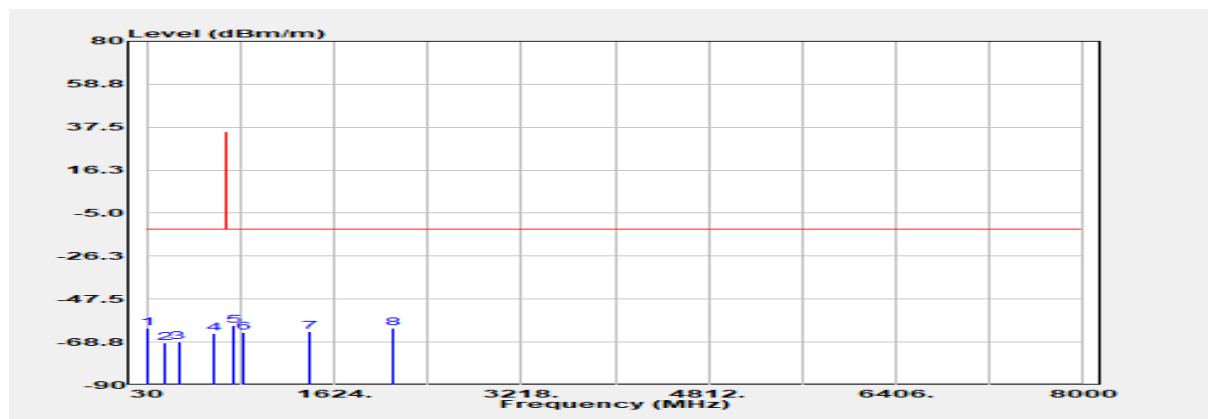
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :707.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.85	-41.97	-19.56	-0.32	-13.00	-48.85
181.320	-69.12	-64.81	-3.51	-0.80	-13.00	-56.12
298.690	-68.56	-66.49	-1.01	-1.06	-13.00	-55.56
595.510	-64.28	-61.77	-1.16	-1.35	-13.00	-51.28
777.870	-60.73	-57.77	-1.58	-1.38	-13.00	-47.73
859.350	-64.05	-61.27	-1.24	-1.54	-13.00	-51.05
1415.000	-63.65	-69.09	7.72	-2.28	-13.00	-50.65
2122.500	-61.67	-68.5	9.63	-2.80	-13.00	-48.67

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B12

Test Date :2022-03-22

Test Mode :TX CH HIGH

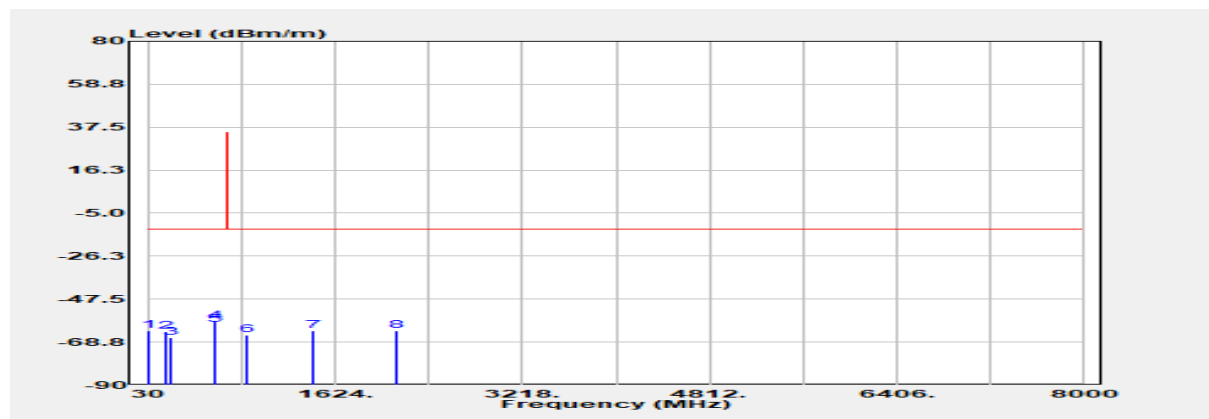
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :714.5 MHz

Engineer :Jack Tseng



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
30.970	-63.26	-43.02	-19.92	-0.32	-13.00	-50.26
182.290	-63.52	-59.42	-3.30	-0.80	-13.00	-50.52
227.880	-66.58	-65.86	0.18	-0.90	-13.00	-53.58
592.600	-58.42	-55.84	-1.14	-1.44	-13.00	-45.42
601.330	-60.29	-57.78	-1.31	-1.20	-13.00	-47.29
865.170	-65.17	-62.39	-1.20	-1.58	-13.00	-52.17
1429.000	-63.29	-68.83	7.83	-2.29	-13.00	-50.29
2143.500	-62.96	-69.53	9.38	-2.81	-13.00	-49.96

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B12

Test Date :2022-03-22

Test Mode :TX CH HIGH

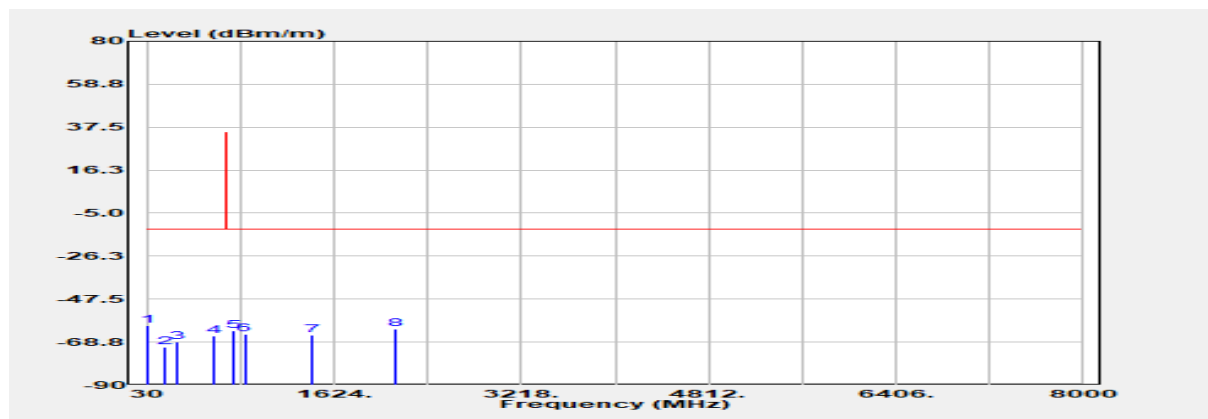
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :714.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-60.79	-40.91	-19.56	-0.32	-13.00	-47.79
180.350	-71.15	-66.6	-3.75	-0.80	-13.00	-58.15
295.780	-68.69	-66.61	-1.03	-1.05	-13.00	-55.69
592.600	-65.82	-63.24	-1.14	-1.44	-13.00	-52.82
774.960	-62.98	-60.04	-1.55	-1.39	-13.00	-49.98
863.230	-64.72	-61.93	-1.22	-1.57	-13.00	-51.72
1429.000	-65.21	-70.75	7.83	-2.29	-13.00	-52.21
2143.500	-62.34	-68.91	9.38	-2.81	-13.00	-49.34

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B13

Test Date :2022-03-22

Test Mode :TX CH LOW

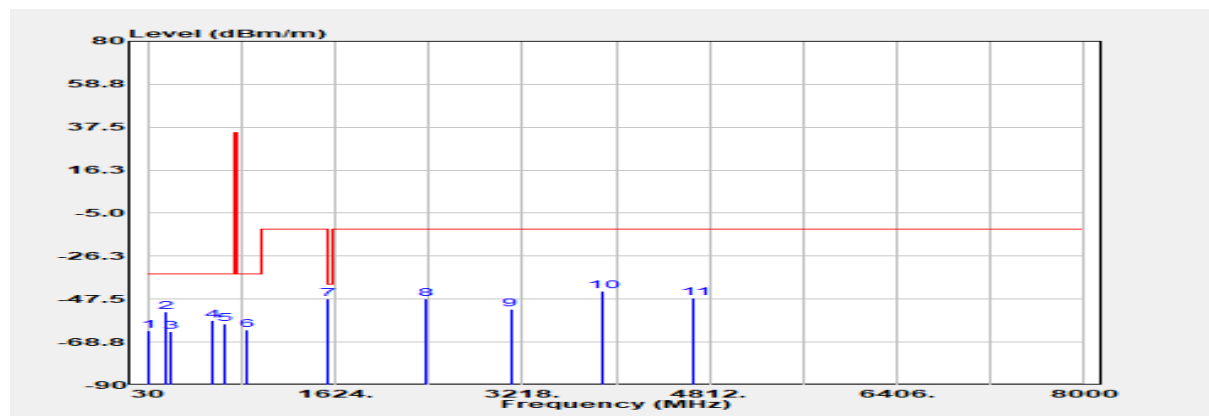
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :779.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-63.23	-43.35	-19.56	-0.32	-35.00	-28.23
179.380	-53.61	-48.89	-3.92	-0.80	-35.00	-18.61
225.940	-63.64	-63.01	0.26	-0.89	-35.00	-28.64
590.660	-58.16	-55.54	-1.12	-1.50	-35.00	-23.16
678.930	-59.88	-57.48	-0.90	-1.50	-35.00	-24.88
870.990	-62.56	-59.77	-1.16	-1.63	-35.00	-27.56
1559.000	-47.45	-54.19	9.15	-2.41	-40.00	-7.45
2388.500	-47.19	-54.19	9.99	-2.99	-13.00	-34.19
3118.000	-52.65	-60.61	11.36	-3.40	-13.00	-39.65
3897.500	-43.48	-52.04	12.40	-3.84	-13.00	-30.48
4677.000	-47.18	-55.23	12.30	-4.25	-13.00	-34.18

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Report Number :E2/2022/20116

Operation Mode :LTE B13

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :779.5 MHz

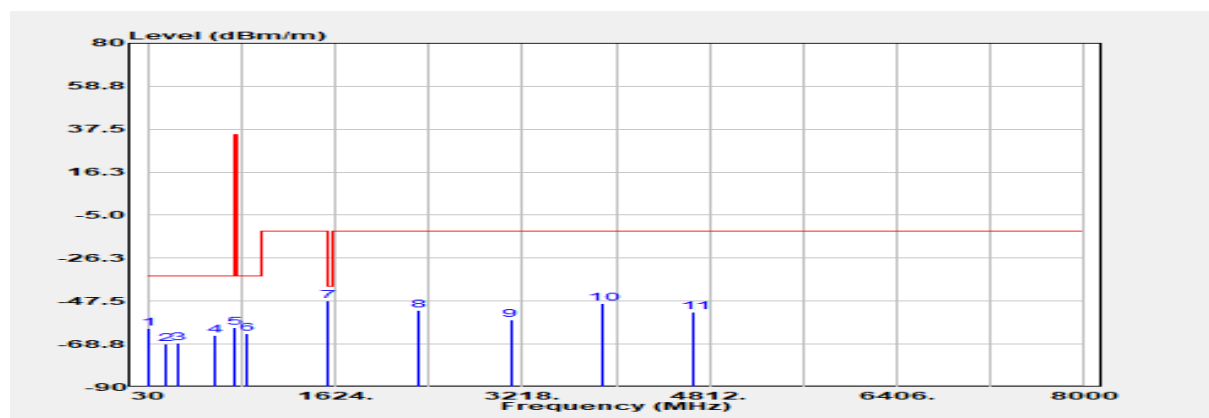
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.15	-41.27	-19.56	-0.32	-35.00	-26.15
179.380	-68.84	-64.12	-3.92	-0.80	-35.00	-33.84
292.870	-68.06	-66.01	-1.02	-1.03	-35.00	-33.06
592.600	-64.46	-61.88	-1.14	-1.44	-35.00	-29.46
774.960	-60.51	-57.57	-1.55	-1.39	-35.00	-25.51
866.140	-63.42	-60.64	-1.19	-1.59	-35.00	-28.42
1559.000	-47.59	-54.33	9.15	-2.41	-40.00	-7.59
2338.500	-52.07	-58.66	9.53	-2.94	-13.00	-39.07
3118.000	-56.73	-64.69	11.36	-3.40	-13.00	-43.73
3897.500	-48.58	-57.14	12.40	-3.84	-13.00	-35.58
4677.000	-52.81	-60.86	12.30	-4.25	-13.00	-39.81

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Report Number :E2/2022/20116

Operation Mode :LTE B13

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :782 MHz

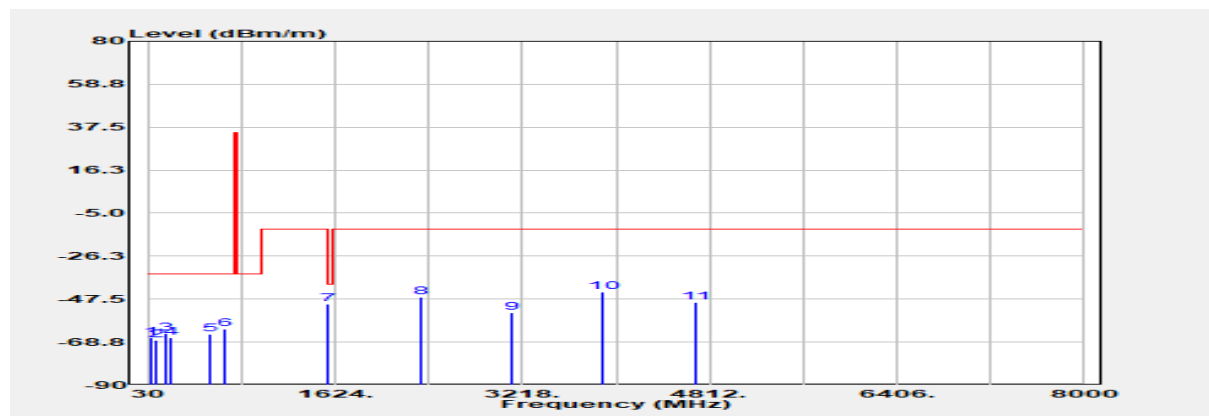
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-66.51	-51.29	-14.77	-0.45	-35.00	-31.51
107.600	-67.65	-60.75	-6.30	-0.60	-35.00	-32.65
180.350	-64.31	-59.76	-3.75	-0.80	-35.00	-29.31
227.880	-66.63	-65.91	0.18	-0.90	-35.00	-31.63
566.410	-64.76	-62.21	-0.81	-1.74	-35.00	-29.76
682.810	-62.37	-60.05	-0.91	-1.41	-35.00	-27.37
1564.000	-49.86	-56.63	9.18	-2.41	-40.00	-9.86
2346.000	-46.73	-53.37	9.58	-2.94	-13.00	-33.73
3128.000	-54.21	-62.18	11.34	-3.37	-13.00	-41.21
3910.000	-44.09	-52.62	12.38	-3.85	-13.00	-31.09
4692.000	-48.94	-56.99	12.30	-4.25	-13.00	-35.94

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Report Number :E2/2022/20116

Operation Mode :LTE B13

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :782 MHz

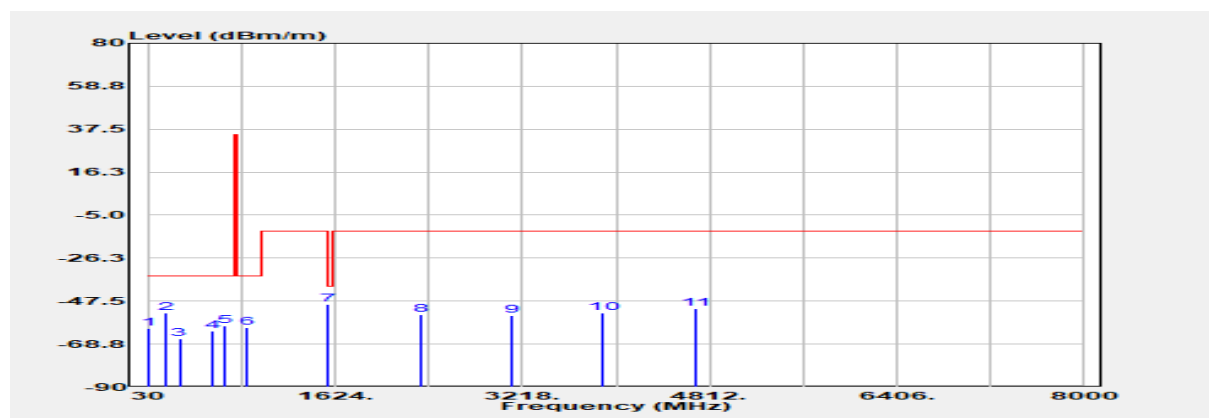
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-60.95	-41.07	-19.56	-0.32	-35.00	-25.95
178.410	-53.49	-48.63	-4.07	-0.79	-35.00	-18.49
298.690	-66.10	-64.03	-1.01	-1.06	-35.00	-31.10
590.660	-62.50	-59.88	-1.12	-1.50	-35.00	-27.50
683.780	-59.87	-57.56	-0.92	-1.39	-35.00	-24.87
865.170	-60.47	-57.69	-1.20	-1.58	-35.00	-25.47
1564.000	-49.12	-55.89	9.18	-2.41	-40.00	-9.12
2346.000	-54.42	-61.06	9.58	-2.94	-13.00	-41.42
3128.000	-54.57	-62.54	11.34	-3.37	-13.00	-41.57
3910.000	-53.43	-61.96	12.38	-3.85	-13.00	-40.43
4692.000	-51.32	-59.37	12.30	-4.25	-13.00	-38.32

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Report Number :E2/2022/20116

Operation Mode :LTE B13

Test Mode :TX CH HIGH

EUT Pol :E2 Plane

Test Frequency :784.5 MHz

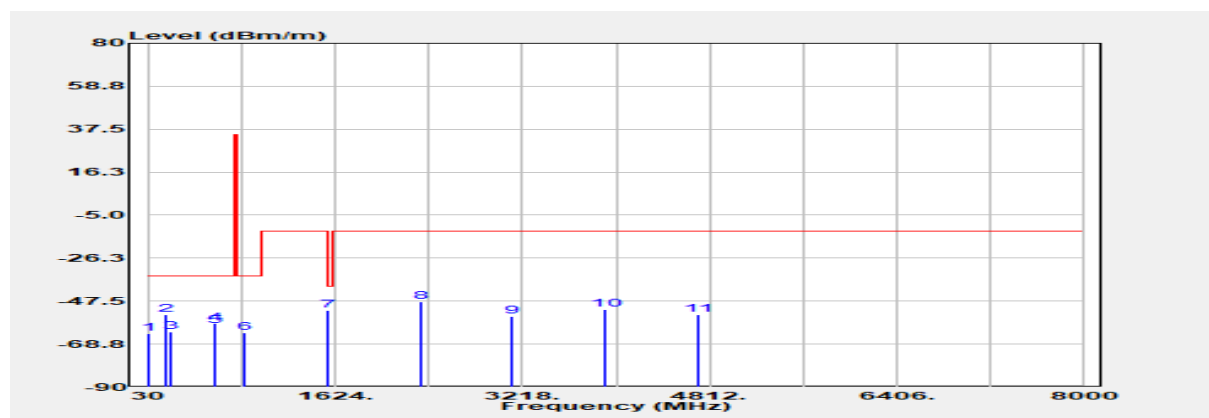
Test Site :SAC D

Test Date :2022-03-22

Temp./Humi. :20.3/70

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-63.57	-43.69	-19.56	-0.32	-35.00	-28.57
180.350	-54.13	-49.58	-3.75	-0.80	-35.00	-19.13
227.880	-62.88	-62.16	0.18	-0.90	-35.00	-27.88
592.600	-58.30	-55.72	-1.14	-1.44	-35.00	-23.30
601.330	-59.66	-57.15	-1.31	-1.20	-35.00	-24.66
859.350	-62.95	-60.17	-1.24	-1.54	-35.00	-27.95
1569.000	-52.23	-59.04	9.22	-2.41	-40.00	-12.23
2353.500	-47.74	-54.44	9.64	-2.94	-13.00	-34.74
3138.000	-55.17	-63.15	11.32	-3.34	-13.00	-42.17
3922.500	-51.47	-59.96	12.35	-3.86	-13.00	-38.47
4707.000	-54.07	-62.13	12.31	-4.25	-13.00	-41.07

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B13

Test Date :2022-03-22

Test Mode :TX CH HIGH

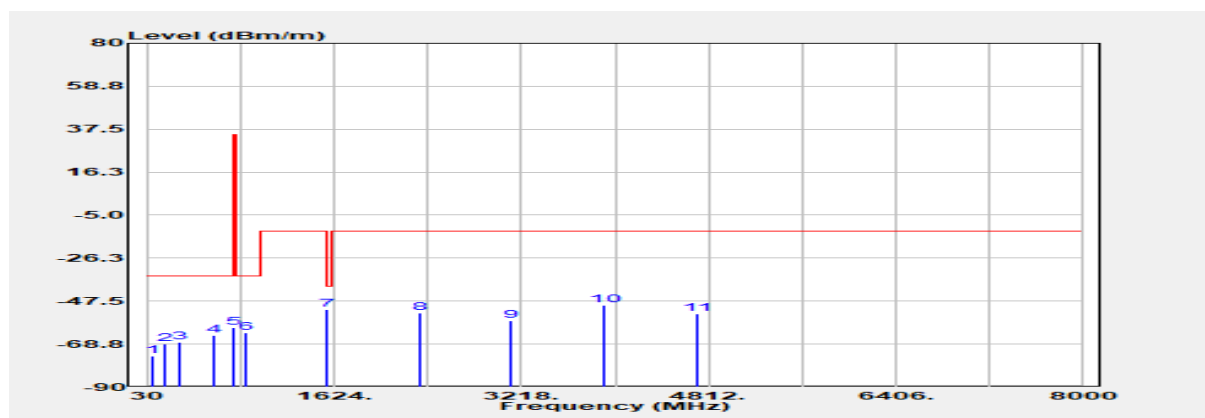
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :784.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.710	-74.65	-62.61	-11.55	-0.49	-35.00	-39.65
180.350	-68.58	-64.03	-3.75	-0.80	-35.00	-33.58
299.660	-67.66	-65.59	-1.00	-1.07	-35.00	-32.66
592.600	-64.43	-61.85	-1.14	-1.44	-35.00	-29.43
777.870	-60.58	-57.62	-1.58	-1.38	34.77	-95.35
866.140	-63.33	-60.55	-1.19	-1.59	-35.00	-28.33
1569.000	-51.81	-58.62	9.22	-2.41	-40.00	-11.81
2353.500	-53.43	-60.13	9.64	-2.94	-13.00	-40.43
3138.000	-57.07	-65.05	11.32	-3.34	-13.00	-44.07
3922.500	-49.68	-58.17	12.35	-3.86	-13.00	-36.68
4707.000	-53.98	-62.04	12.31	-4.25	-13.00	-40.98

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B17

Test Date :2022-03-23

Test Mode :TX CH LOW

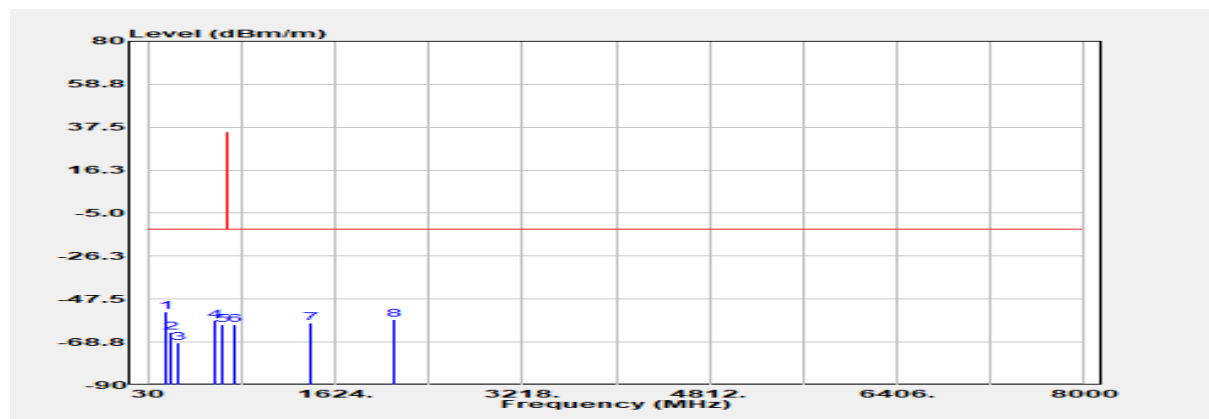
Temp./Humi. :20.3/70

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :706.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
177.440	-53.96	-48.96	-4.21	-0.79	-13.00	-40.96
226.910	-63.99	-63.32	0.22	-0.89	-13.00	-50.99
295.780	-69.27	-67.19	-1.03	-1.05	-13.00	-56.27
595.510	-58.10	-55.59	-1.16	-1.35	-13.00	-45.10
674.080	-60.25	-57.66	-0.96	-1.63	-13.00	-47.25
769.140	-60.37	-57.46	-1.50	-1.41	-13.00	-47.37
1413.000	-59.32	-64.75	7.71	-2.28	-13.00	-46.32
2119.500	-57.60	-64.46	9.66	-2.80	-13.00	-44.60

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Report Number :E2/2022/20116

Operation Mode :LTE B17

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :706.5 MHz

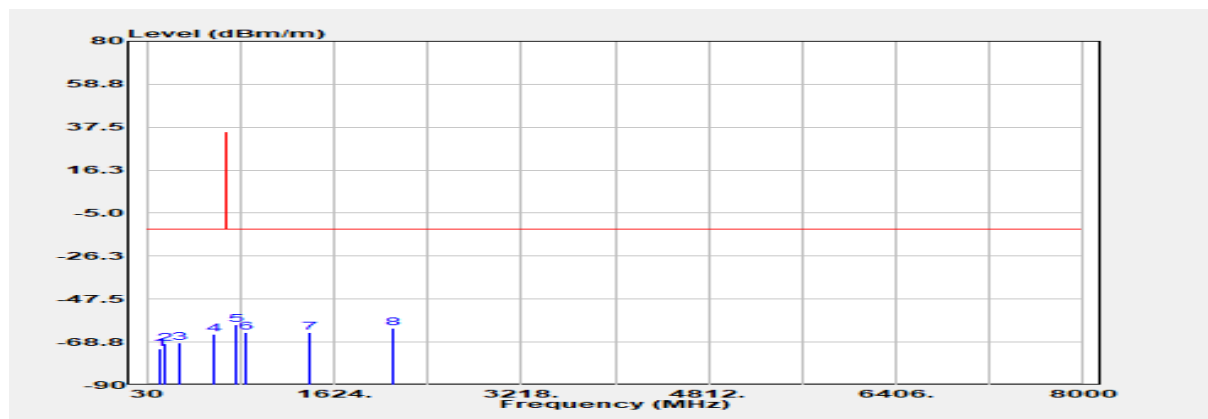
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
140.580	-72.27	-64.62	-6.99	-0.66	-13.00	-59.27
181.320	-69.73	-65.42	-3.51	-0.80	-13.00	-56.73
299.660	-68.93	-66.86	-1.00	-1.07	-13.00	-55.93
592.600	-64.75	-62.17	-1.14	-1.44	-13.00	-51.75
782.720	-60.37	-57.43	-1.51	-1.43	-13.00	-47.37
865.170	-63.81	-61.03	-1.20	-1.58	-13.00	-50.81
1413.000	-63.91	-69.34	7.71	-2.28	-13.00	-50.91
2119.500	-61.90	-68.76	9.66	-2.80	-13.00	-48.90

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Report Number :E2/2022/20116

Operation Mode :LTE B17

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :710 MHz

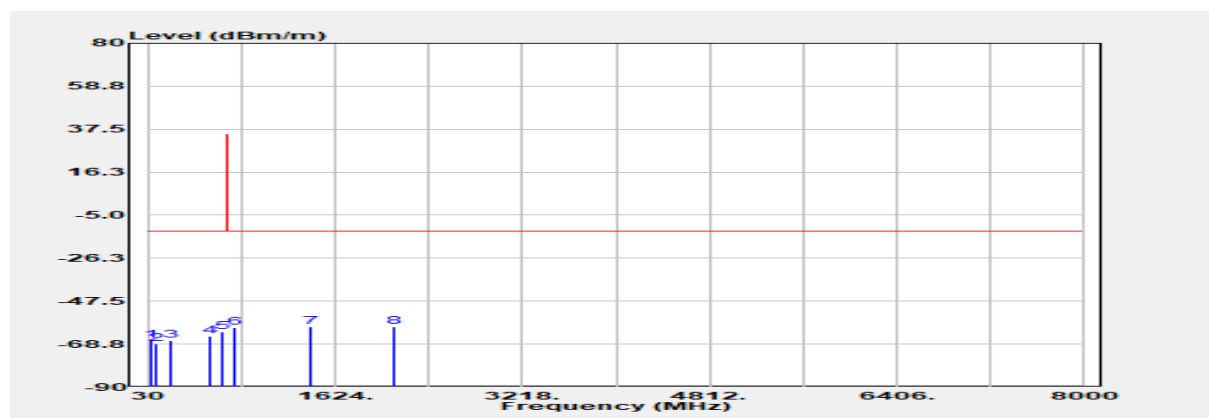
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-67.11	-51.89	-14.77	-0.45	-13.00	-54.11
108.570	-68.73	-61.84	-6.28	-0.61	-13.00	-55.73
229.820	-67.18	-66.38	0.10	-0.90	-13.00	-54.18
568.350	-64.78	-62.21	-0.81	-1.76	-13.00	-51.78
674.080	-62.69	-60.1	-0.96	-1.63	-13.00	-49.69
777.870	-60.79	-57.83	-1.58	-1.38	-13.00	-47.79
1420.000	-60.13	-65.61	7.76	-2.28	-13.00	-47.13
2130.000	-60.35	-67.09	9.54	-2.80	-13.00	-47.35

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Report Number :E2/2022/20116

Operation Mode :LTE B17

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :710 MHz

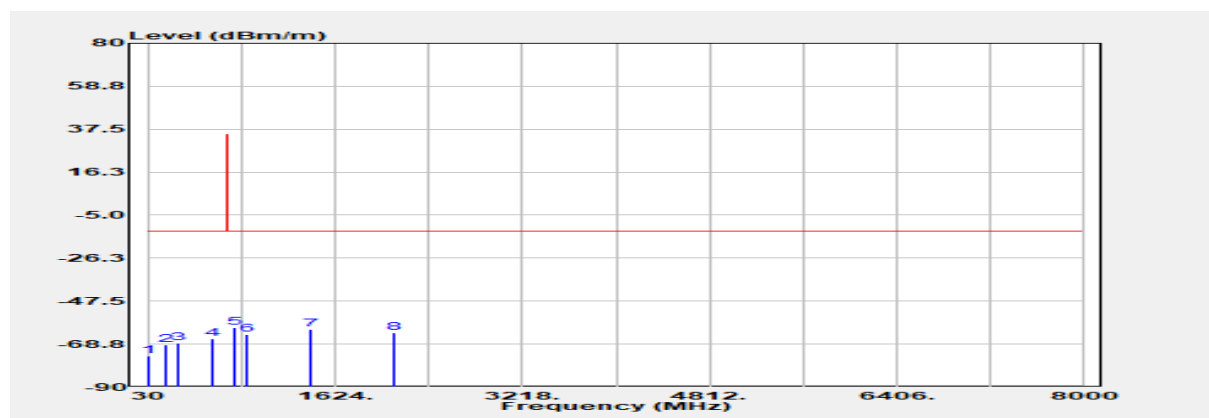
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-74.55	-55.77	-18.42	-0.36	-13.00	-61.55
181.320	-69.23	-64.92	-3.51	-0.80	-13.00	-56.23
297.720	-68.35	-66.27	-1.02	-1.06	-13.00	-55.35
582.900	-66.04	-63.35	-0.99	-1.70	-13.00	-53.04
774.960	-60.65	-57.71	-1.55	-1.39	-13.00	-47.65
866.140	-63.82	-61.04	-1.19	-1.59	-13.00	-50.82
1420.000	-61.44	-66.92	7.76	-2.28	-13.00	-48.44
2130.000	-63.20	-69.94	9.54	-2.80	-13.00	-50.20

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B17

Test Date :2022-03-23

Test Mode :TX CH HIGH

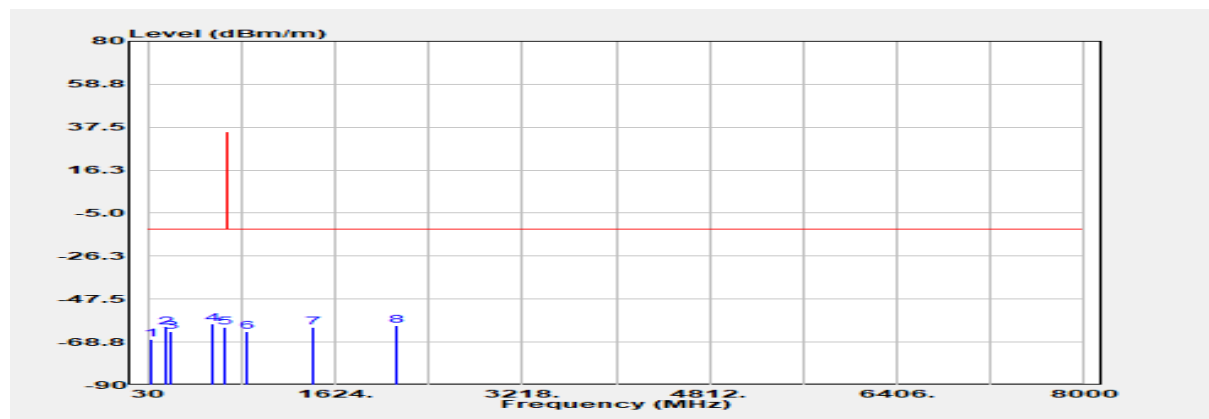
Temp./Humi. :21.2/66

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :713.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-67.33	-52.11	-14.77	-0.45	-13.00	-54.33
188.110	-61.26	-58.11	-2.33	-0.82	-13.00	-48.26
225.940	-63.61	-62.98	0.26	-0.89	-13.00	-50.61
583.870	-59.81	-57.14	-0.99	-1.68	-13.00	-46.81
687.660	-61.62	-59.35	-0.95	-1.32	-13.00	-48.62
867.110	-63.43	-60.65	-1.18	-1.60	-13.00	-50.43
1427.000	-61.44	-66.97	7.82	-2.29	-13.00	-48.44
2140.500	-60.67	-67.27	9.41	-2.81	-13.00	-47.67

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B17

Test Date :2022-03-23

Test Mode :TX CH HIGH

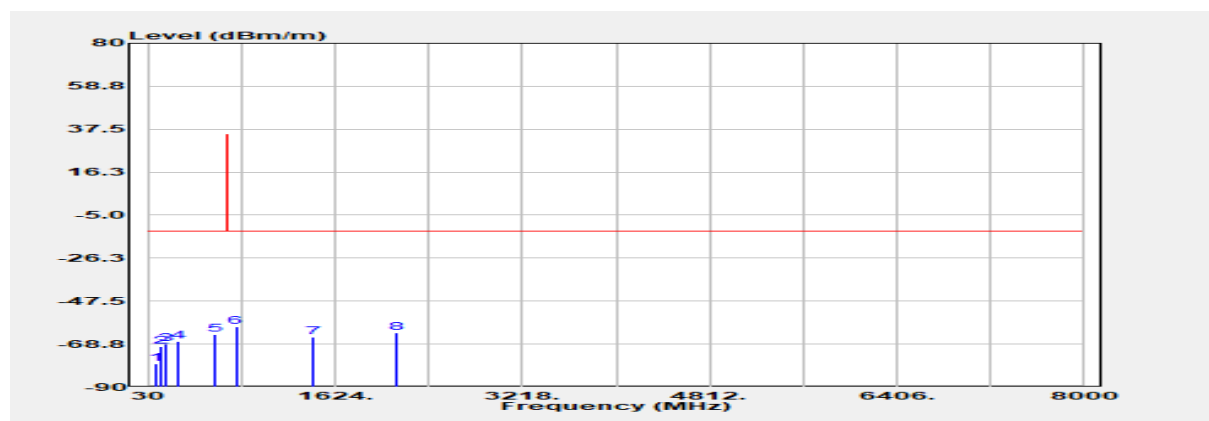
Temp./Humi. :21.2/66

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :713.5 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.600	-78.71	-71.81	-6.30	-0.60	-13.00	-65.71
132.820	-69.98	-62.34	-6.99	-0.65	-13.00	-56.98
182.290	-68.71	-64.61	-3.30	-0.80	-13.00	-55.71
295.780	-67.24	-65.16	-1.03	-1.05	-13.00	-54.24
599.390	-64.13	-61.64	-1.26	-1.23	-13.00	-51.13
778.840	-60.32	-57.35	-1.59	-1.38	-13.00	-47.32
1427.000	-65.28	-70.81	7.82	-2.29	-13.00	-52.28
2140.500	-63.12	-69.72	9.41	-2.81	-13.00	-50.12

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B66

Test Date :2022-03-23

Test Mode :TX CH LOW

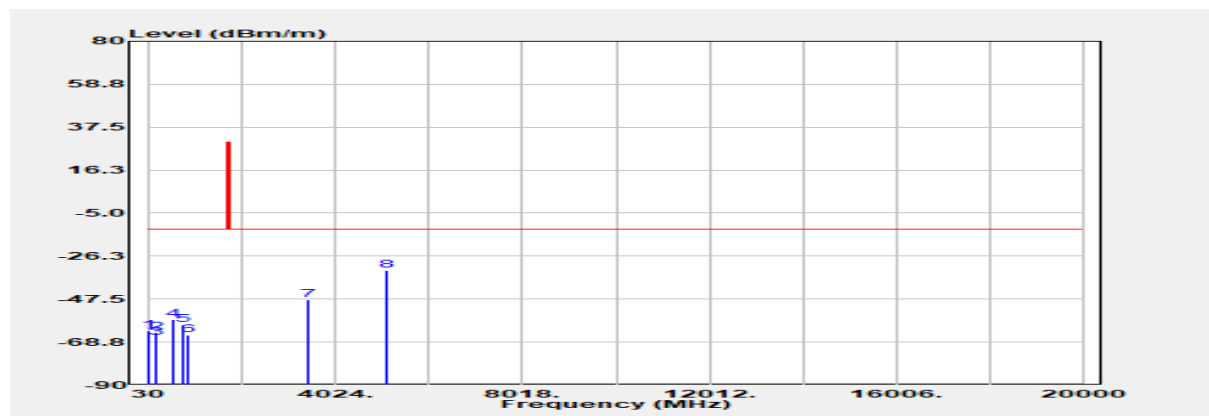
Temp./Humi. :21.2/66

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1715 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-63.37	-43.13	-19.92	-0.32	-13.00	-50.37
182.290	-63.83	-59.73	-3.30	-0.80	-13.00	-50.83
226.910	-66.56	-65.89	0.22	-0.89	-13.00	-53.56
592.600	-57.76	-55.18	-1.14	-1.44	-13.00	-44.76
773.990	-60.08	-57.15	-1.54	-1.39	-13.00	-47.08
866.140	-65.40	-62.62	-1.19	-1.59	-13.00	-52.40
3430.000	-47.63	-56.53	12.54	-3.64	-13.00	-34.63
5145.000	-33.14	-40.75	12.10	-4.49	-13.00	-20.14

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Report Number :E2/2022/20116

Operation Mode :LTE B66

Test Mode :TX CH LOW

EUT Pol :E2 Plane

Test Frequency :1715 MHz

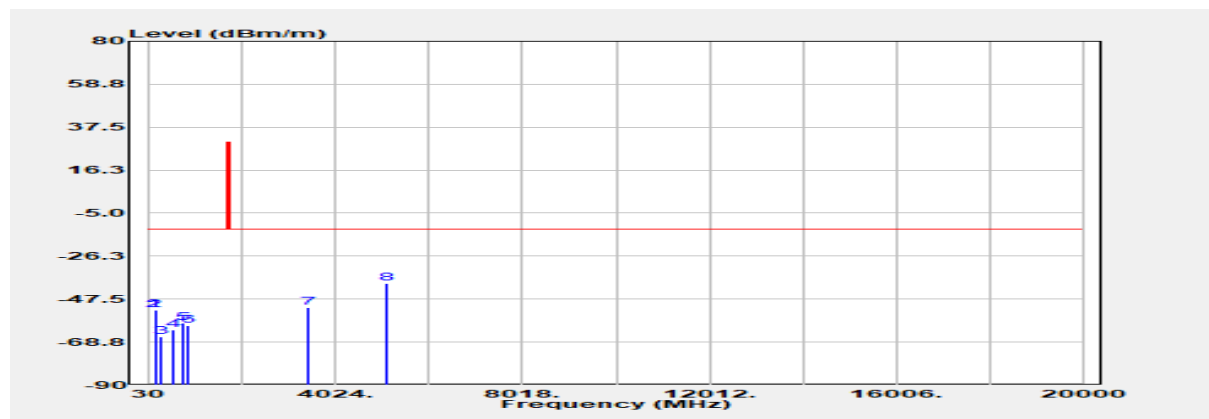
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
180.350	-52.90	-48.35	-3.75	-0.80	-13.00	-39.90
180.350	-52.90	-48.35	-3.75	-0.80	-13.00	-39.90
301.600	-65.99	-63.93	-0.98	-1.08	-13.00	-52.99
592.600	-62.91	-60.33	-1.14	-1.44	-13.00	-49.91
774.960	-59.18	-56.24	-1.55	-1.39	-13.00	-46.18
867.110	-60.59	-57.81	-1.18	-1.60	-13.00	-47.59
3430.000	-51.82	-60.72	12.54	-3.64	-13.00	-38.82
5145.000	-39.82	-47.43	12.10	-4.49	-13.00	-26.82

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Report Number :E2/2022/20116

Operation Mode :LTE B66

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :1745 MHz

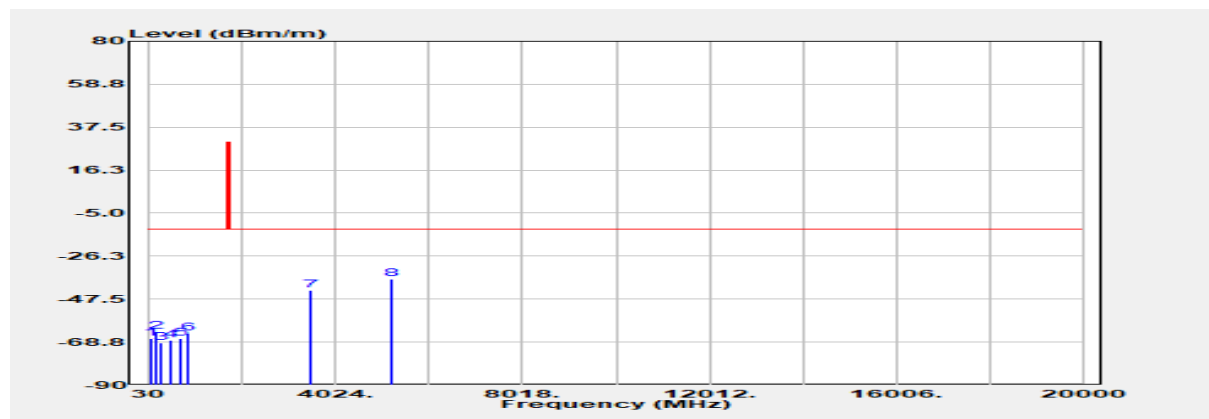
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Vertical

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.570	-66.92	-60.03	-6.28	-0.61	-13.00	-53.92
225.940	-63.44	-62.81	0.26	-0.89	-13.00	-50.44
302.570	-69.33	-67.27	-0.97	-1.09	-13.00	-56.33
499.480	-67.68	-65.47	-0.67	-1.54	-13.00	-54.68
743.920	-66.93	-63.63	-1.47	-1.83	-13.00	-53.93
872.930	-64.62	-61.78	-1.18	-1.66	-13.00	-51.62
3490.000	-43.14	-51.95	12.42	-3.61	-13.00	-30.14
5235.000	-37.72	-45.92	12.68	-4.48	-13.00	-24.72

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Report Number :E2/2022/20116

Operation Mode :LTE B66

Test Mode :TX CH MID

EUT Pol :E2 Plane

Test Frequency :1745 MHz

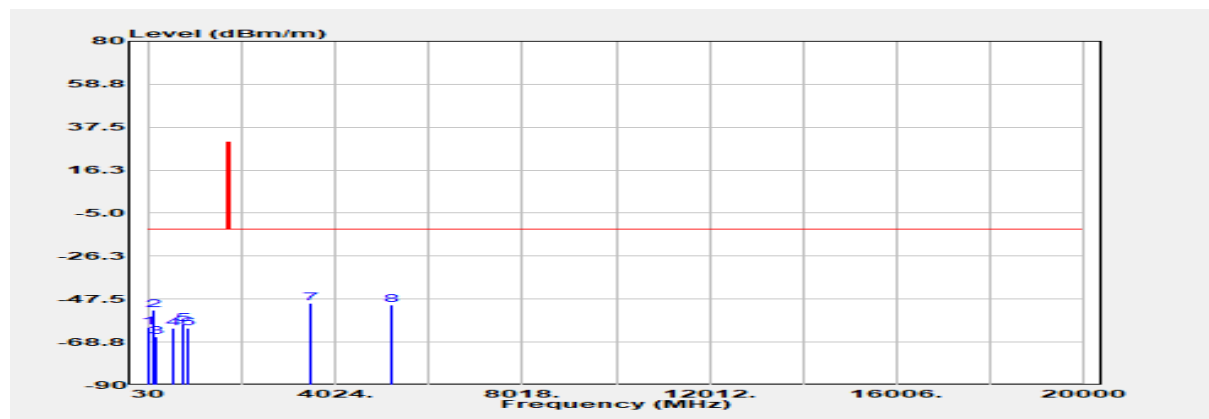
Test Site :SAC D

Test Date :2022-03-23

Temp./Humi. :21.2/66

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.52	-41.64	-19.56	-0.32	-13.00	-48.52
178.410	-52.84	-47.98	-4.07	-0.79	-13.00	-39.84
229.820	-66.17	-65.37	0.10	-0.90	-13.00	-53.17
595.510	-61.82	-59.31	-1.16	-1.35	-13.00	-48.82
774.960	-59.67	-56.73	-1.55	-1.39	-13.00	-46.67
866.140	-62.00	-59.22	-1.19	-1.59	-13.00	-49.00
3490.000	-49.67	-58.48	12.42	-3.61	-13.00	-36.67
5235.000	-50.42	-58.62	12.68	-4.48	-13.00	-37.42

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B66

Test Date :2022-03-23

Test Mode :TX CH HIGH

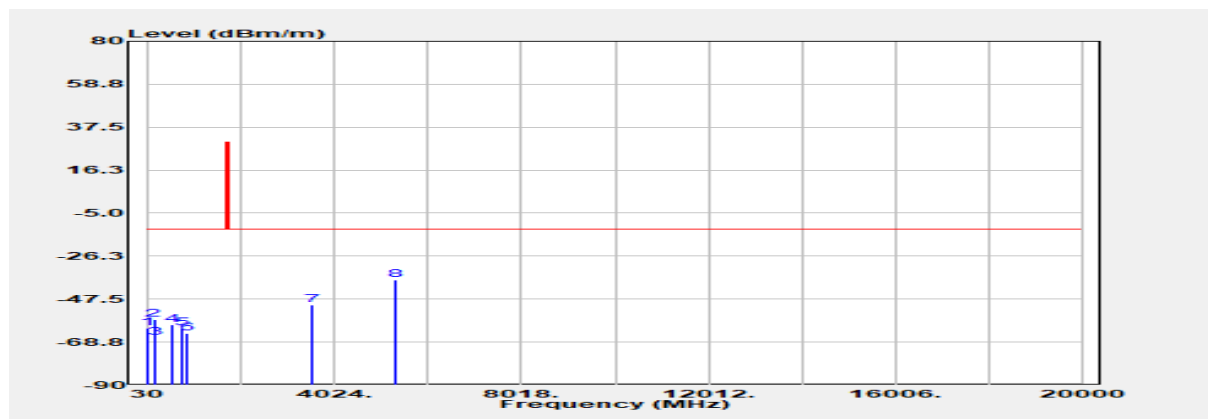
Temp./Humi. :21.2/66

EUT Pol :E2 Plane

Antenna Pol. :Vertical

Test Frequency :1775 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-61.76	-41.88	-19.56	-0.32	-13.00	-48.76
181.320	-57.47	-53.16	-3.51	-0.80	-13.00	-44.47
226.910	-66.55	-65.88	0.22	-0.89	-13.00	-53.55
592.600	-60.34	-57.76	-1.14	-1.44	-13.00	-47.34
780.780	-61.67	-58.71	-1.57	-1.39	-13.00	-48.67
863.230	-64.51	-61.72	-1.22	-1.57	-13.00	-51.51
3550.000	-50.22	-58.88	12.40	-3.74	-13.00	-37.22
5325.000	-38.10	-46.56	13.00	-4.54	-13.00	-25.10

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Report Number :E2/2022/20116

Test Site :SAC D

Operation Mode :LTE B66

Test Date :2022-03-23

Test Mode :TX CH HIGH

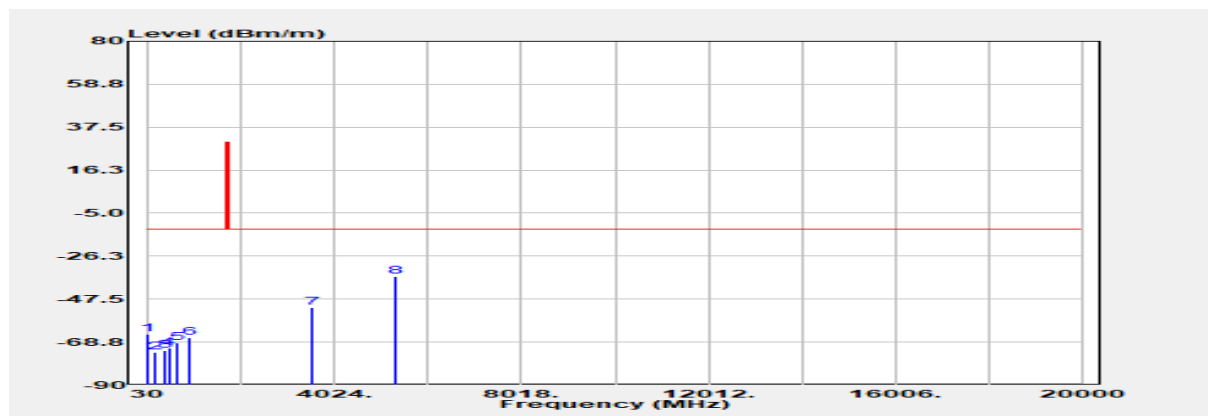
Temp./Humi. :21.2/66

EUT Pol :E2 Plane

Antenna Pol. :Horizontal

Test Frequency :1775 MHz

Engineer :Jack Tseng



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-64.69	-44.81	-19.56	-0.32	-13.00	-51.69
229.820	-73.63	-72.83	0.10	-0.90	-13.00	-60.63
405.390	-72.97	-70.88	-0.68	-1.41	-13.00	-59.97
494.630	-71.77	-69.44	-0.74	-1.59	-13.00	-58.77
691.540	-69.02	-66.76	-0.97	-1.29	-13.00	-56.02
948.590	-66.45	-63.26	-1.40	-1.79	-13.00	-53.45
3550.000	-51.64	-60.3	12.40	-3.74	-13.00	-38.64
5325.000	-36.12	-44.58	13.00	-4.54	-13.00	-23.12

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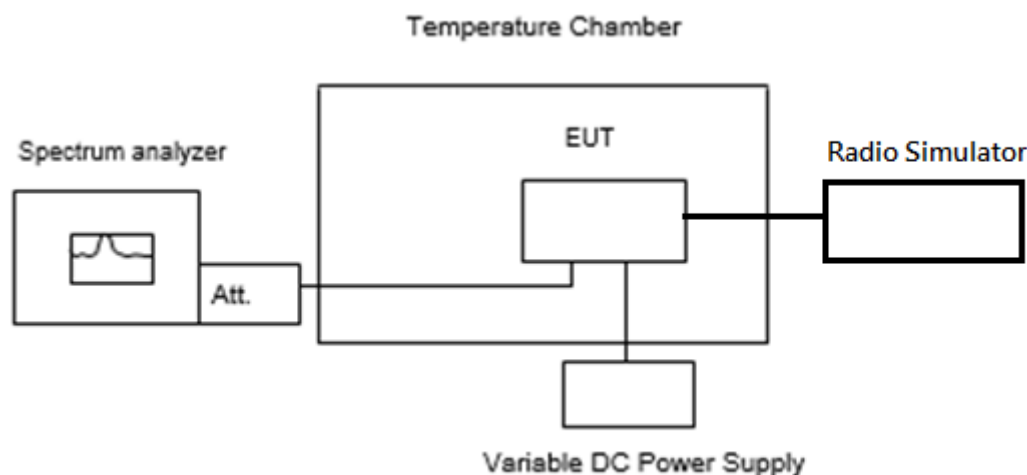
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicabl

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

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

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

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

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

11.4 Measurement Result

Note: The battery is rated 12V dc.

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Reference Freq.:		LTE B2 Mid Channel		1880.0000	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	1880.000000	0.0000	+/- 2.5 ppm	
12	25	1880.000007	0.0037		
10.2	25	1879.999997	-0.0016		
10 (End Point)	25	1879.999998	-0.0011		
Freq. ERROR vs. Temp.					
12	-30	1880.000005	0.0027	+/- 2.5 ppm	
12	-20	1879.999996	-0.0021		
12	-10	1880.000003	0.0016		
12	0	1880.000005	0.0027		
12	10	1879.999995	-0.0027		
12	20	1879.999996	-0.0021		
12	30	1880.000000	0.0000		
12	40	1880.000002	0.0011		
12	50	1879.999997	-0.0016		

Reference Freq.:		LTE B4 Mid Channel		1732.5000	MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	1732.500005	0.0029	+/- 2.5 ppm	
12	25	1732.500006	0.0035		
10.2	25	1732.500003	0.0017		
10 (End Point)	25	1732.499996	-0.0023		
Freq. ERROR vs. Temp.					
12	-30	1732.500000	0.0000	+/- 2.5 ppm	
12	-20	1732.500006	0.0035		
12	-10	1732.500002	0.0012		
12	0	1732.500002	0.0012		
12	10	1732.500007	0.0040		
12	20	1732.500004	0.0023		
12	30	1732.500005	0.0029		
12	40	1732.500003	0.0017		
12	50	1732.500006	0.0035		

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Reference Freq.:		LTE B5 Mid Channel		836.5000	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	836.500008	0.0096	+/- 2.5 ppm	
12	25	836.500003	0.0036		
10.2	25	836.499999	-0.0012		
10 (End Point)	25	836.500009	0.0108		
Freq. ERROR vs. Temp.					
12	-30	836.500005	0.0060	+/- 2.5 ppm	
12	-20	836.500008	0.0096		
12	-10	836.500006	0.0072		
12	0	836.499998	-0.0024		
12	10	836.500001	0.0012		
12	20	836.499998	-0.0024		
12	30	836.500004	0.0048		
12	40	836.500004	0.0048		
12	50	836.500005	0.0060		
Reference Freq.:		LTE B12 Mid Channel		707.5000	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	707.499999	-0.0014	+/- 2.5 ppm	
12	25	707.500006	0.0085		
10.2	25	707.499999	-0.0014		
10 (End Point)	25	707.500002	0.0028		
Freq. ERROR vs. Temp.					
12	-30	707.500000	0.0000	+/- 2.5 ppm	
12	-20	707.500009	0.0127		
12	-10	707.499999	-0.0014		
12	0	707.500007	0.0099		
12	10	707.499997	-0.0042		
12	20	707.499996	-0.0057		
12	30	707.500004	0.0057		
12	40	707.500001	0.0014		
12	50	707.499997	-0.0042		

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Reference Freq.:		LTE B13 Mid Channel		782.0000	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	781.999995	-0.0064	+/- 2.5 ppm	
12	25	782.000003	0.0038		
10.2	25	782.000005	0.0064		
10 (End Point)	25	782.000006	0.0077		
Freq. ERROR vs. Temp.					
12	-30	782.000004	0.0051	+/- 2.5 ppm	
12	-20	782.000004	0.0051		
12	-10	781.999998	-0.0026		
12	0	782.000008	0.0102		
12	10	782.000005	0.0064		
12	20	781.999997	-0.0038		
12	30	782.000008	0.0102		
12	40	781.999998	-0.0026		
12	50	782.000006	0.0077		
Reference Freq.:		LTE B17 Mid Channel		710.0000	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	710.000006	0.0085	+/- 2.5 ppm	
12	25	709.999999	-0.0014		
10.2	25	710.000001	0.0014		
10 (End Point)	25	710.000003	0.0042		
Freq. ERROR vs. Temp.					
12	-30	710.000009	0.0127	+/- 2.5 ppm	
12	-20	710.000003	0.0042		
12	-10	710.000005	0.0070		
12	0	710.000006	0.0085		
12	10	710.000003	0.0042		
12	20	710.000000	0.0000		
12	30	710.000003	0.0042		
12	40	709.999996	-0.0056		
12	50	710.000004	0.0056		

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Reference Freq.:		LTE B66 Mid Channel		1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	1745.000007	0.0040	+/- 2.5 ppm	
12	25	1745.000009	0.0052		
10.2	25	1745.000003	0.0017		
10 (End Point)	25	1744.999998	-0.0011		
Freq. ERROR vs. Temp.					
12	-30	1745.000004	0.0023	+/- 2.5 ppm	
12	-20	1745.000005	0.0029		
12	-10	1745.000009	0.0052		
12	0	1745.000007	0.0040		
12	10	1744.999999	-0.0006		
12	20	1744.999995	-0.0029		
12	30	1744.999997	-0.0017		
12	40	1745.000008	0.0046		
12	50	1745.000001	0.0006		

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