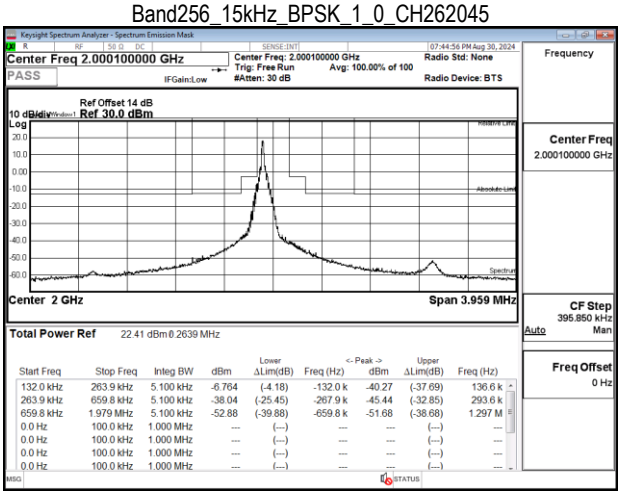
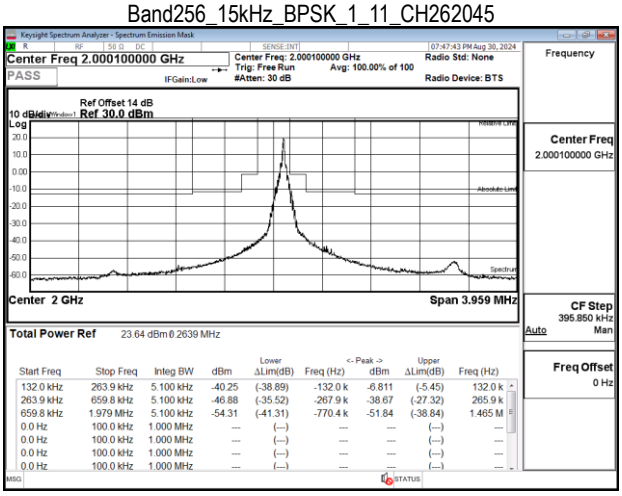
Band256_15kHz_BPSK_1_0_CH262045



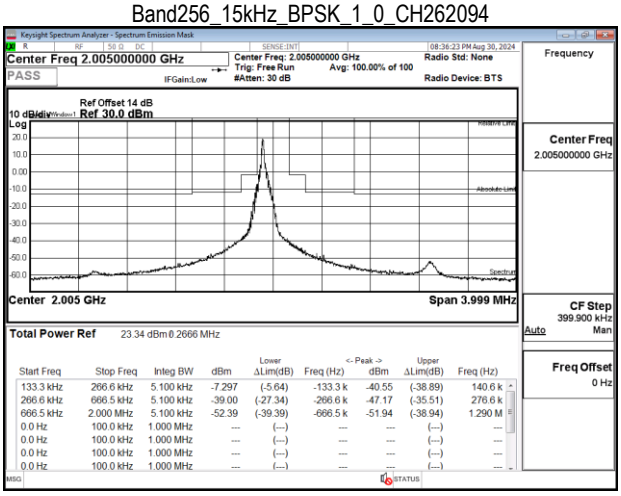
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
132.0 kHz	263.9 kHz	5.100 kHz	-6.764	(-4.18)	-132.0 k	-40.27	(-37.69)	136.6 k
263.9 kHz	659.8 kHz	5.100 kHz	-38.04	(-25.45)	-267.9 k	-45.44	(-32.85)	293.6 k
659.8 kHz	1.979 MHz	5.100 kHz	-52.88	(-39.88)	-659.8 k	-51.68	(-38.68)	1.297 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_15kHz_BPSK_1_11_CH262045



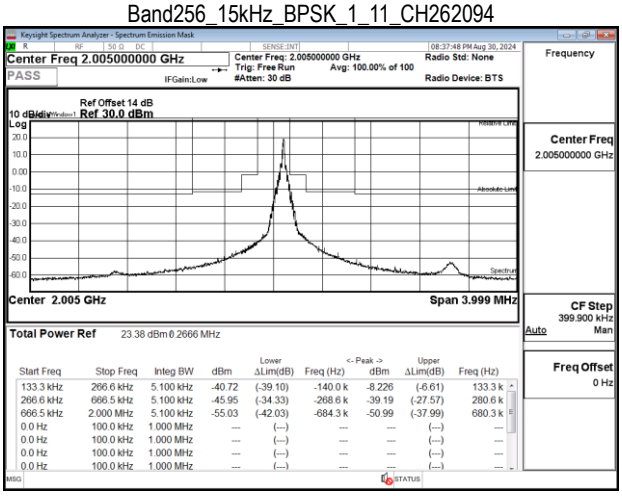
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
132.0 kHz	263.9 kHz	5.100 kHz	-40.25	(-38.89)	-132.0 k	-6.811	(-5.45)	132.0 k
263.9 kHz	659.8 kHz	5.100 kHz	-46.88	(-35.52)	-267.9 k	-38.67	(-27.32)	265.9 k
659.8 kHz	1.979 MHz	5.100 kHz	-54.31	(-41.31)	-770.4 k	-51.84	(-38.84)	1.465 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_15kHz_BPSK_1_0_CH262094



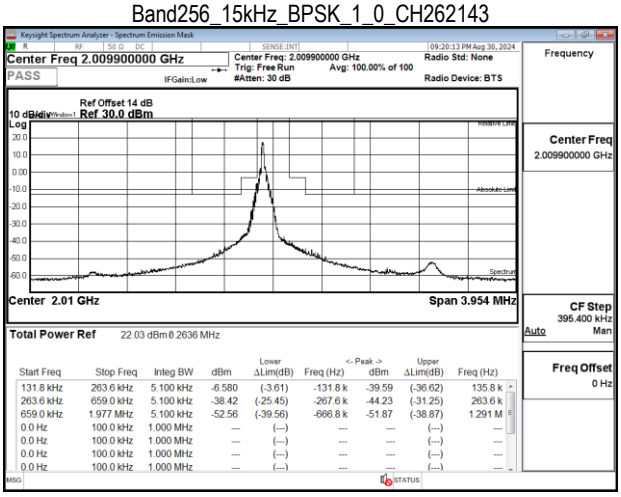
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
133.3 kHz	266.6 kHz	5.100 kHz	-7.297	(-5.64)	-133.3 k	-40.55	(-38.89)	140.6 k
266.6 kHz	666.5 kHz	5.100 kHz	-39.00	(-27.34)	-266.6 k	-47.17	(-35.51)	276.6 k
666.5 kHz	2.000 MHz	5.100 kHz	-52.39	(-39.39)	-666.5 k	-51.94	(-38.94)	1.290 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_15kHz_BPSK_1_11_CH262094



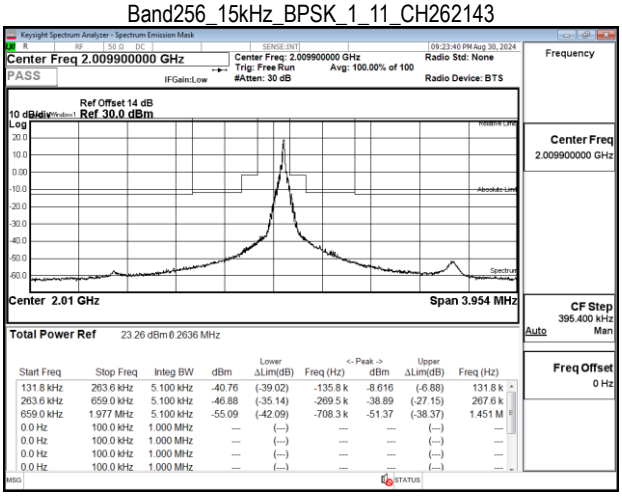
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
133.3 kHz	266.6 kHz	5.100 kHz	-40.72	(-39.10)	-140.0 k	-8.226	(-6.61)	133.3 k
266.6 kHz	666.5 kHz	5.100 kHz	-45.95	(-34.33)	-268.6 k	-39.19	(-27.57)	280.6 k
666.5 kHz	2.000 MHz	5.100 kHz	-55.03	(-42.03)	-684.3 k	-50.99	(-37.99)	680.3 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_15kHz_BPSK_1_0_CH262143



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
131.8 kHz	263.6 kHz	5.100 kHz	-6.580	(-3.61)	-131.8 k	-39.59	(-36.62)	135.8 k
263.6 kHz	659.0 kHz	5.100 kHz	-38.42	(-25.45)	-267.6 k	-44.23	(-31.25)	263.6 k
659.0 kHz	1.977 MHz	5.100 kHz	-52.56	(-39.56)	-666.8 k	-51.87	(-38.87)	1.291 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_15kHz_BPSK_1_11_CH262143



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
131.8 kHz	263.6 kHz	5.100 kHz	-40.76	(-39.02)	-135.8 k	-8.616	(-6.88)	131.8 k
263.6 kHz	659.0 kHz	5.100 kHz	-46.88	(-35.14)	-269.5 k	-38.89	(-27.15)	267.6 k
659.0 kHz	1.977 MHz	5.100 kHz	-55.09	(-42.09)	-708.3 k	-51.37	(-38.37)	1.451 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

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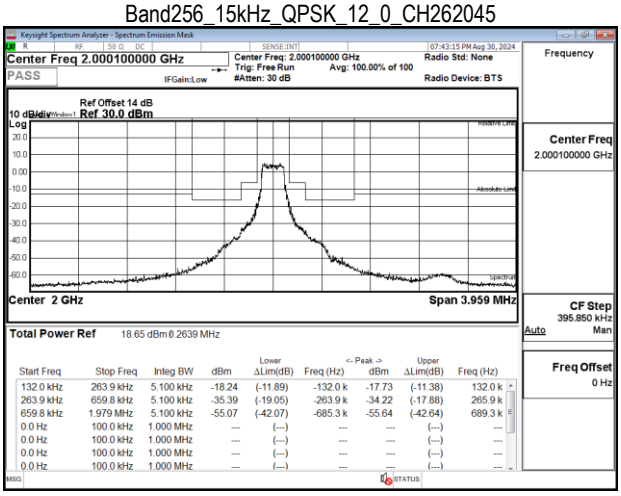
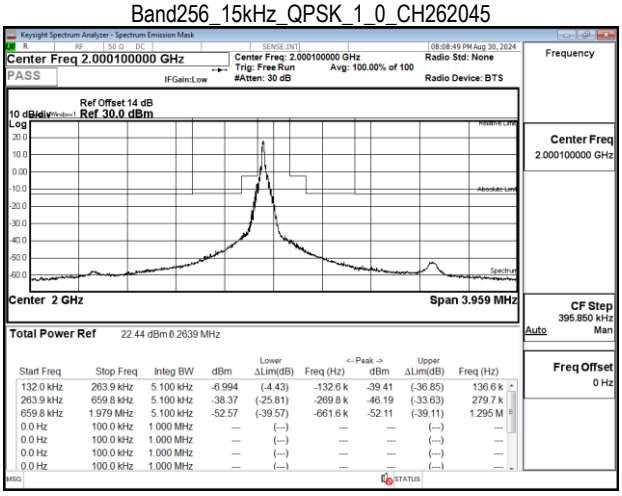
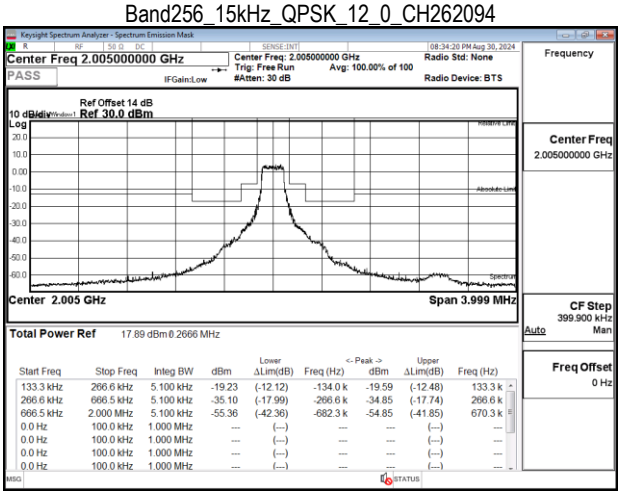
Band256_15kHz_QPSK_12_0_CH262045



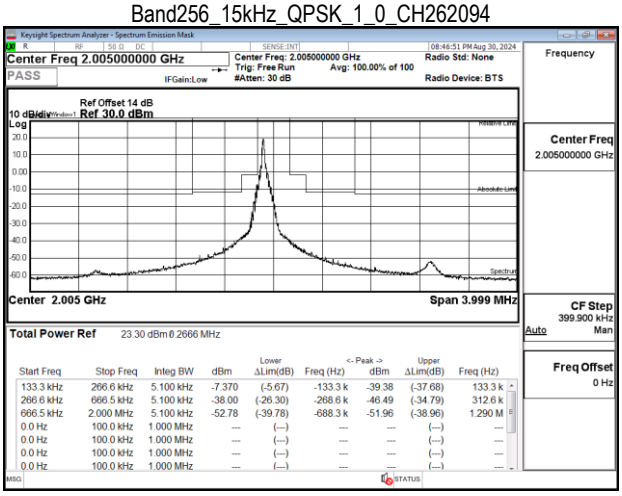
Band256_15kHz_QPSK_1_0_CH262045



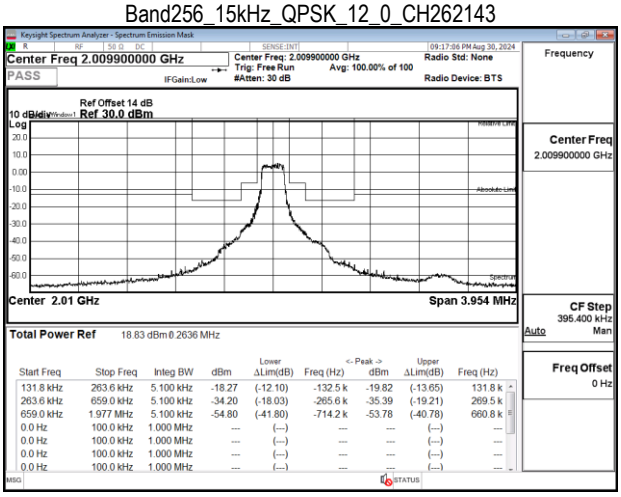
Band256_15kHz_QPSK_12_0_CH262094



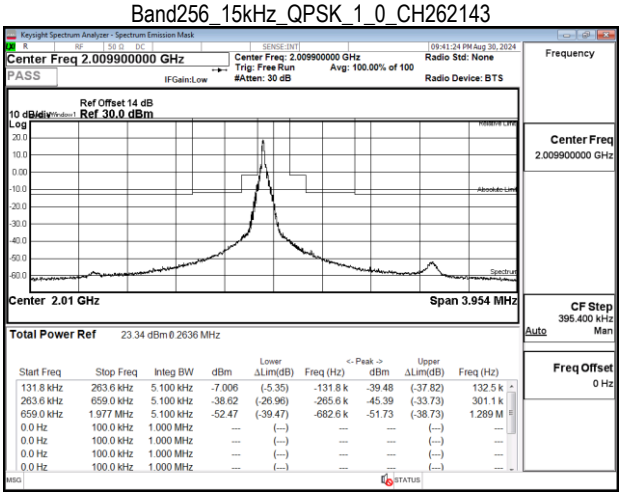
Band256_15kHz_QPSK_1_0_CH262094



Band256_15kHz_QPSK_12_0_CH262143



Band256_15kHz_QPSK_1_0_CH262143



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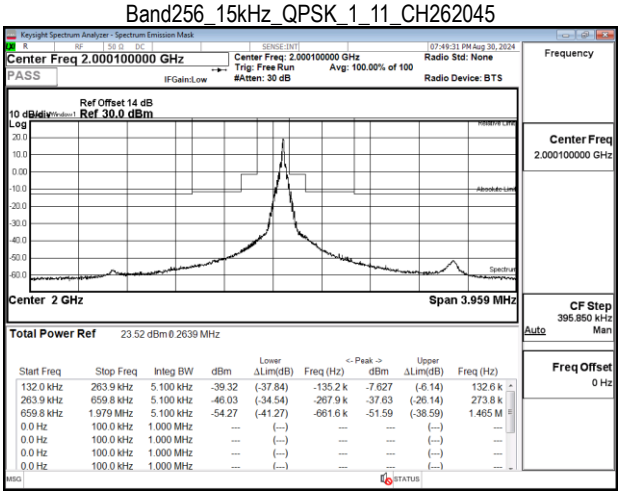
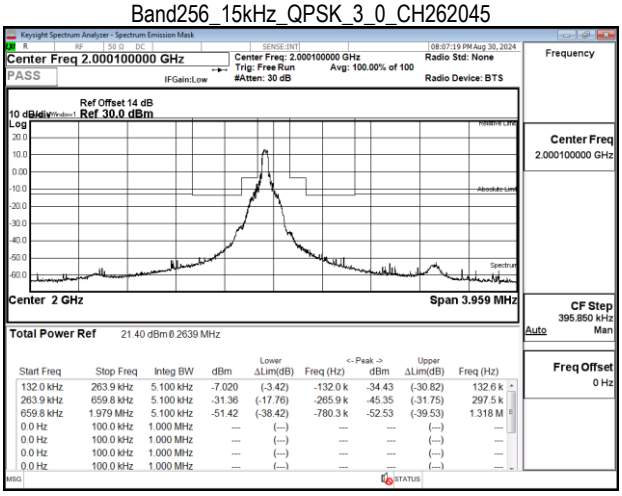
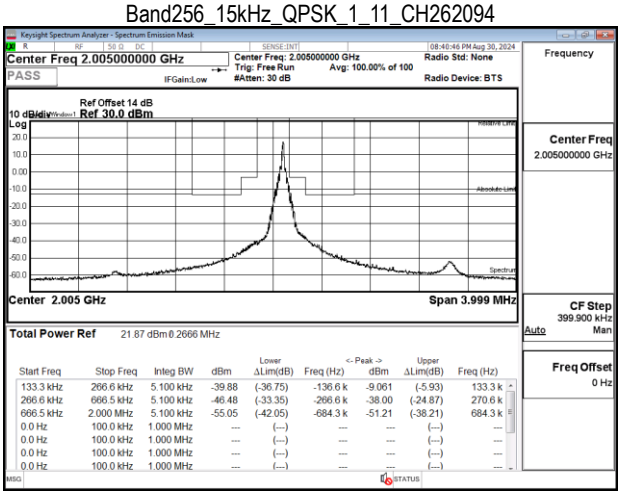
Band256_15kHz_QPSK_1_11_CH262045



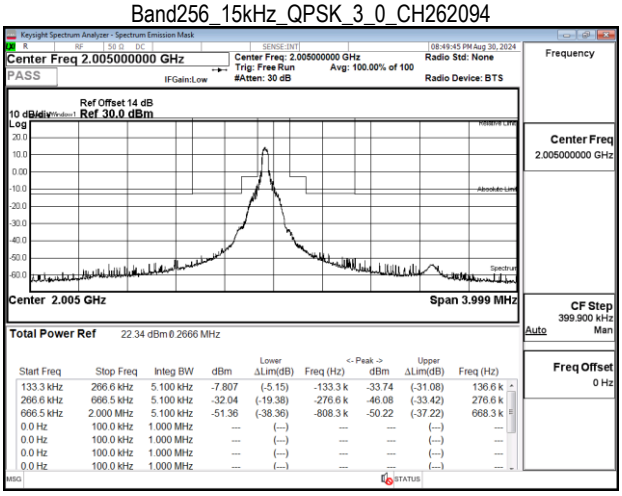
Band256_15kHz_QPSK_3_0_CH262045



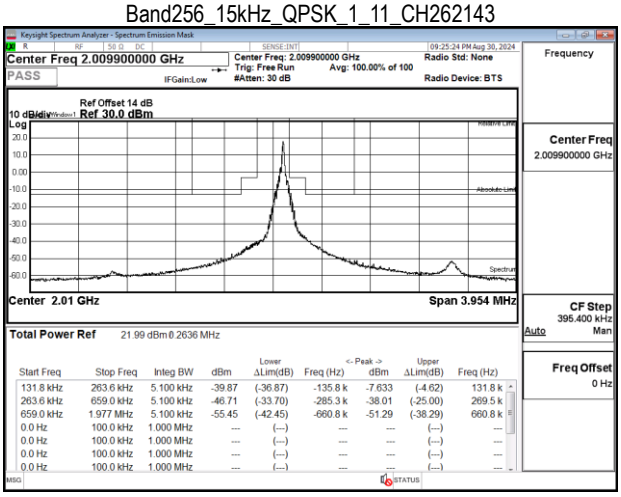
Band256_15kHz_QPSK_1_11_CH262094



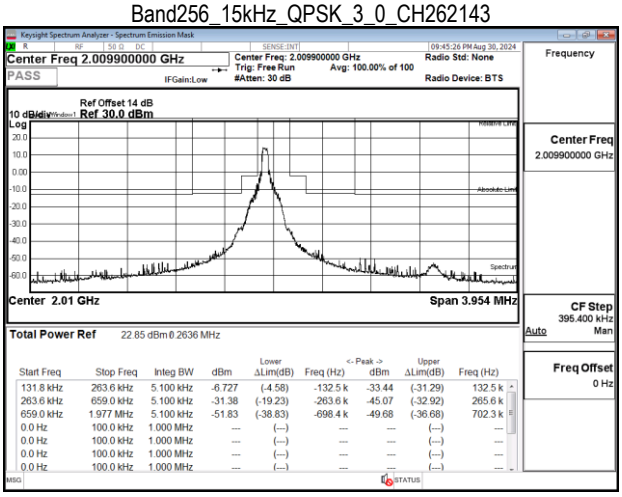
Band256_15kHz_QPSK_3_0_CH262094



Band256_15kHz_QPSK_1_11_CH262143



Band256_15kHz_QPSK_3_0_CH262143



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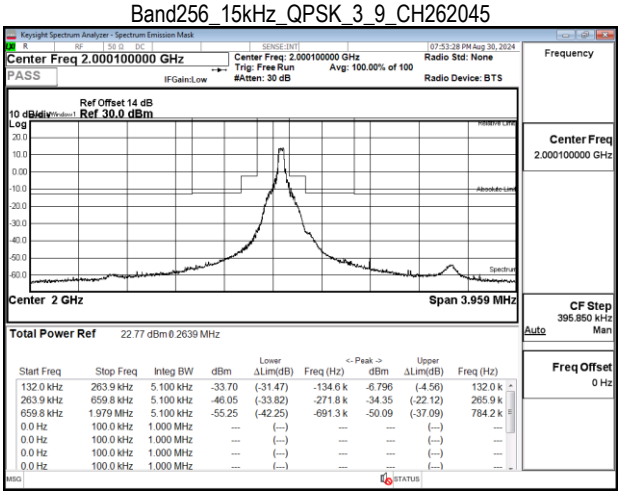
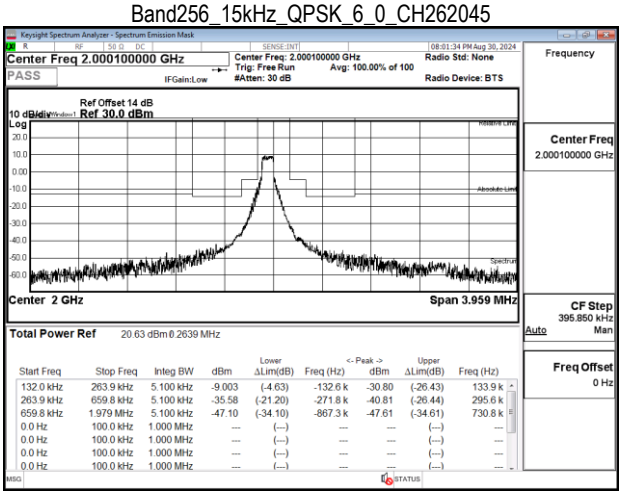
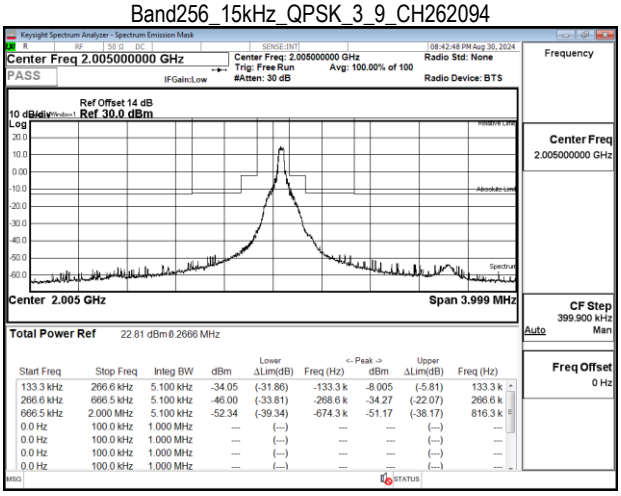
Band256_15kHz_QPSK_3_9_CH262045



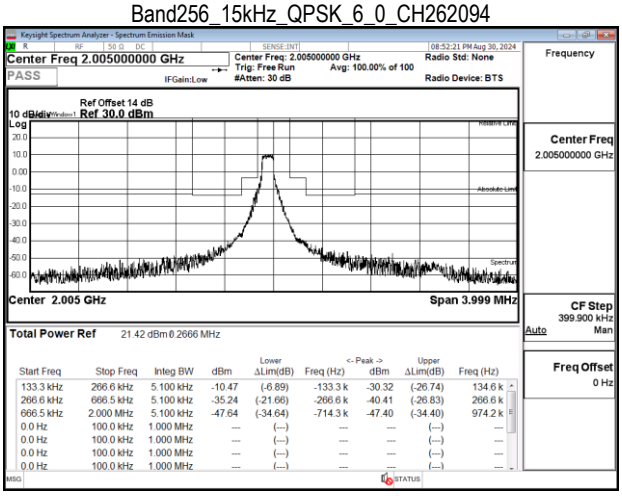
Band256_15kHz_QPSK_6_0_CH262045



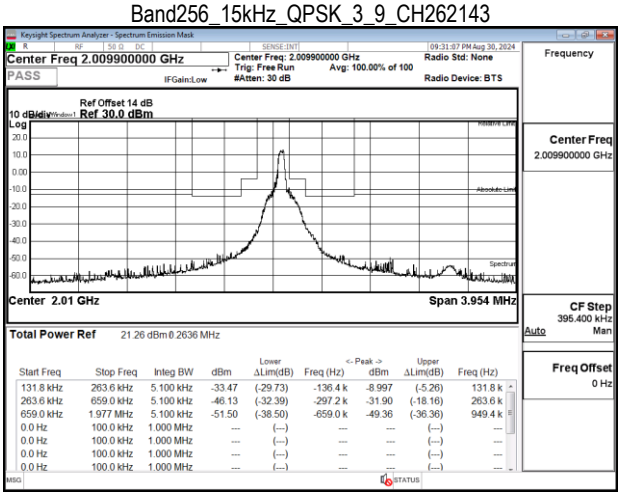
Band256_15kHz_QPSK_3_9_CH262094



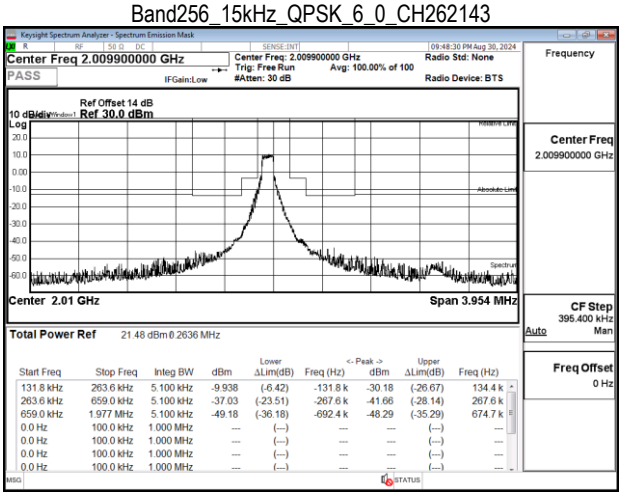
Band256_15kHz_QPSK_6_0_CH262094



Band256_15kHz_QPSK_3_9_CH262143



Band256_15kHz_QPSK_6_0_CH262143



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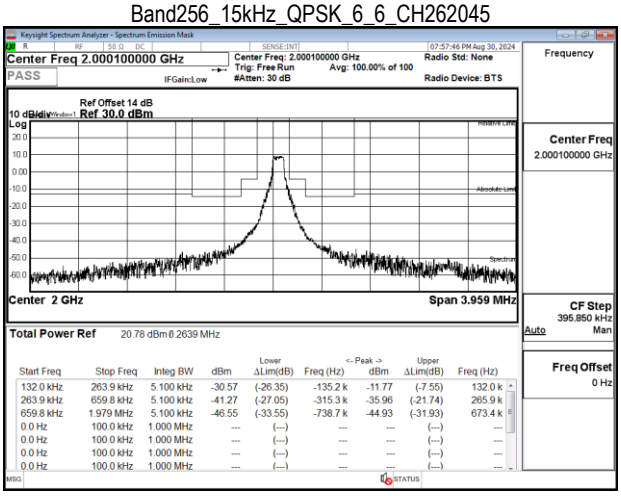
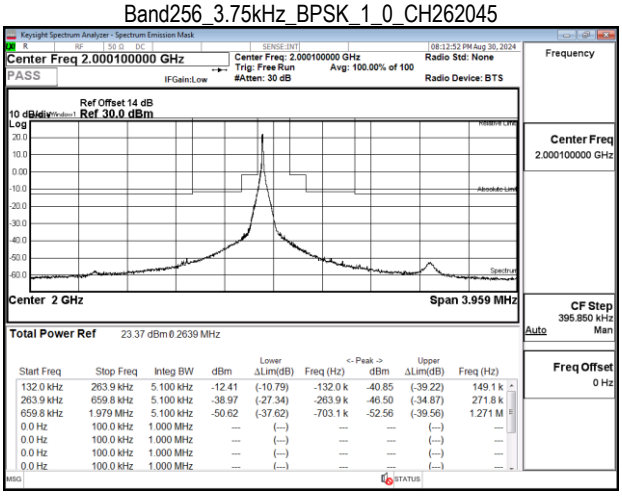
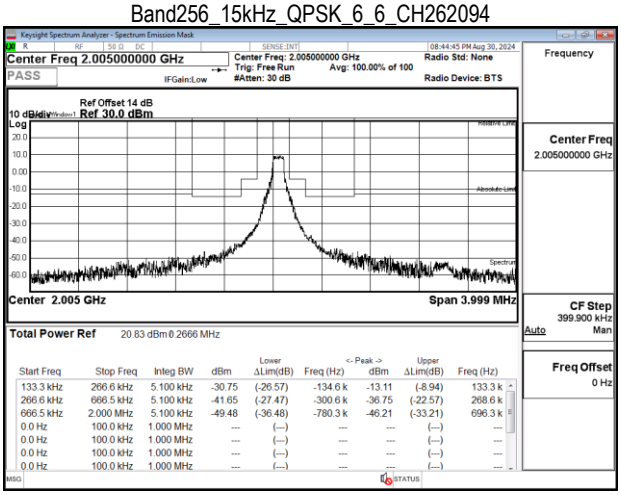
Band256_15kHz_QPSK_6_6_CH262045



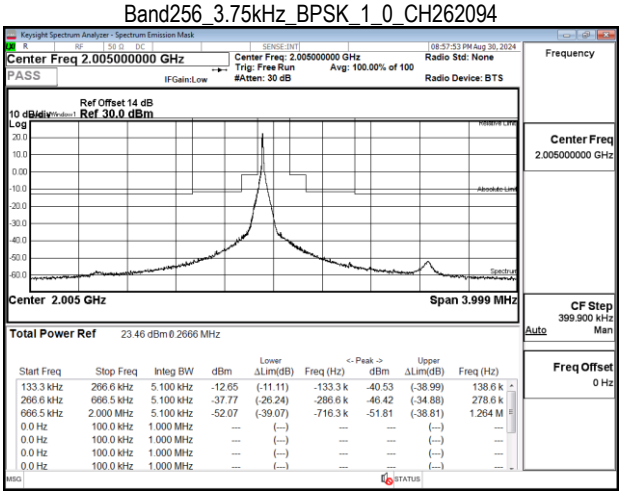
Band256_3.75kHz_BPSK_1_0_CH262045



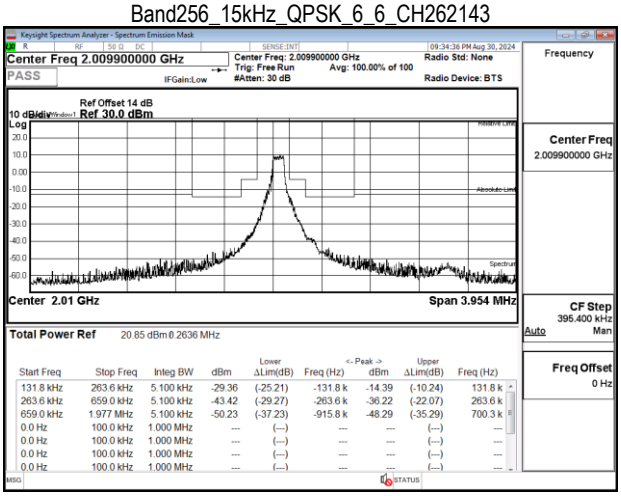
Band256_15kHz_QPSK_6_6_CH262094



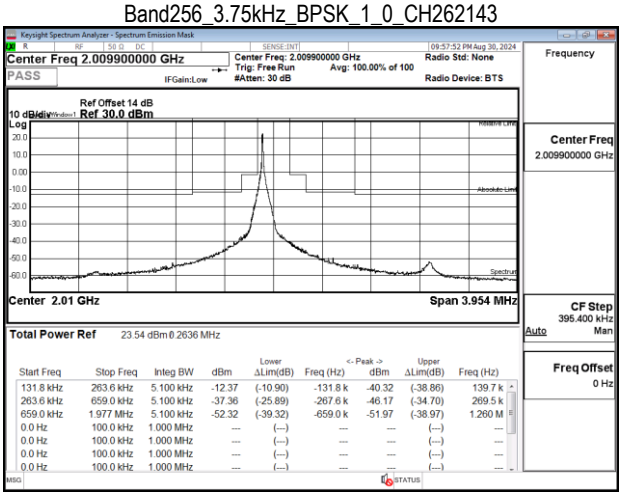
Band256_3.75kHz_BPSK_1_0_CH262094



Band256_15kHz_QPSK_6_6_CH262143



Band256_3.75kHz_BPSK_1_0_CH262143



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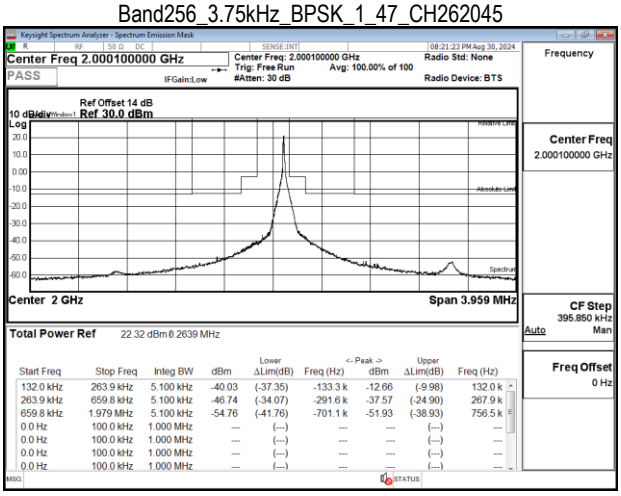
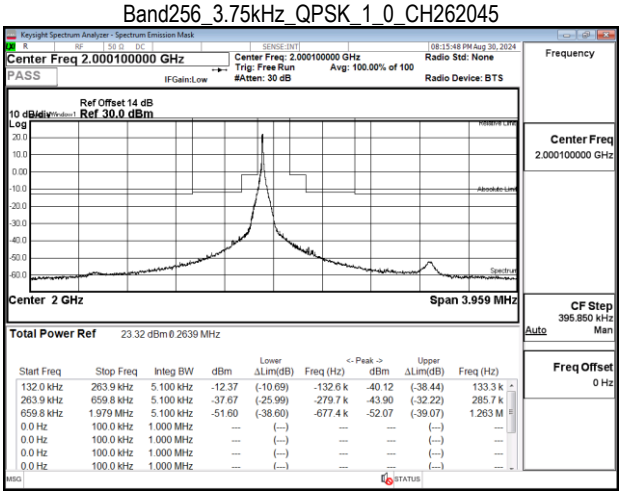
Band256_3.75kHz_BPSK_1_47_CH262045



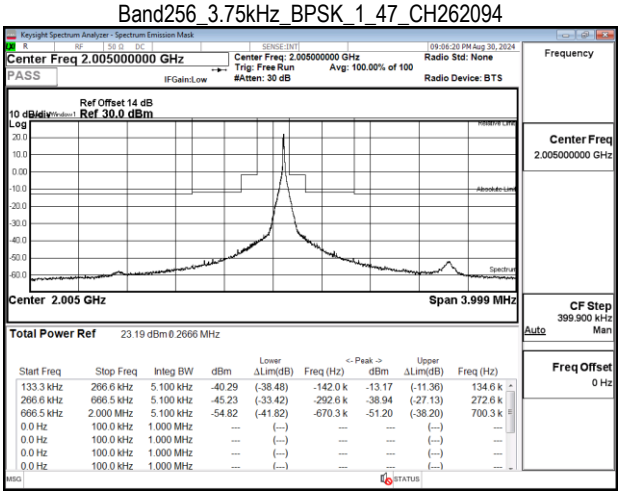
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
132.0 kHz	263.9 kHz	5.100 kHz	-40.03	(-37.35)	-133.3 k	-12.66	(-9.98)	132.0 k
263.9 kHz	659.8 kHz	5.100 kHz	-46.74	(-34.07)	-291.6 k	-37.57	(-24.90)	267.9 k
659.8 kHz	1.979 MHz	5.100 kHz	-54.76	(-41.76)	-701.1 k	-51.93	(-38.93)	756.5 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_QPSK_1_0_CH262045



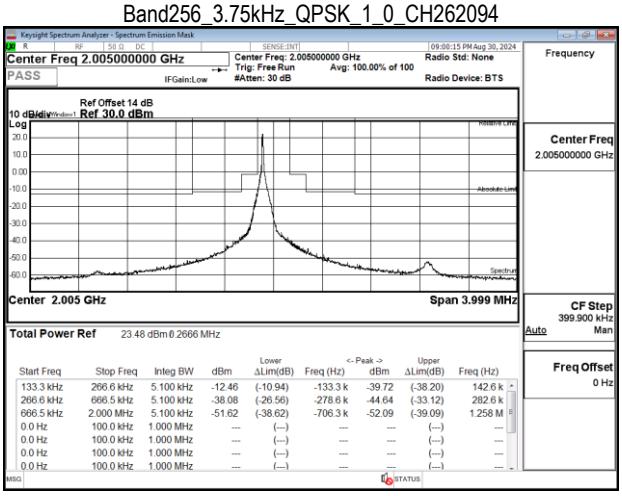
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
132.0 kHz	263.9 kHz	5.100 kHz	-12.37	(-10.69)	-132.6 k	-40.12	(-38.44)	133.3 k
263.9 kHz	659.8 kHz	5.100 kHz	-37.67	(-25.99)	-279.7 k	-43.90	(-32.22)	285.7 k
659.8 kHz	1.979 MHz	5.100 kHz	-51.60	(-38.60)	-677.4 k	-52.07	(-39.07)	1.263 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_BPSK_1_47_CH262094



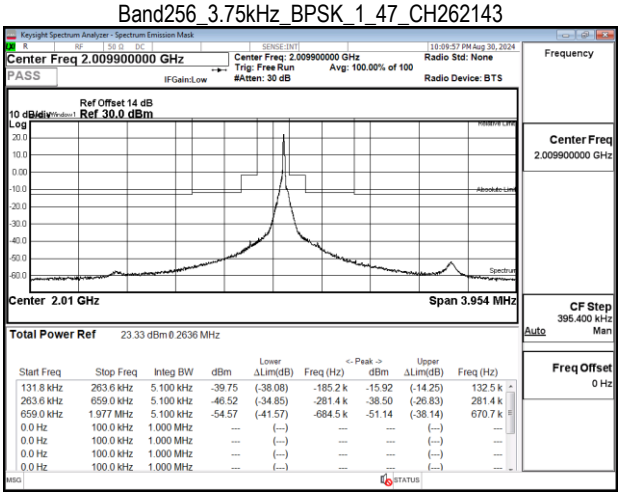
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
133.3 kHz	266.6 kHz	5.100 kHz	-40.29	(-38.48)	-142.0 k	-13.17	(-11.36)	134.6 k
266.6 kHz	666.5 kHz	5.100 kHz	-45.23	(-33.42)	-292.6 k	-38.94	(-27.13)	272.6 k
666.5 kHz	2.000 MHz	5.100 kHz	-54.82	(-41.82)	-670.3 k	-51.20	(-38.20)	700.3 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_QPSK_1_0_CH262094



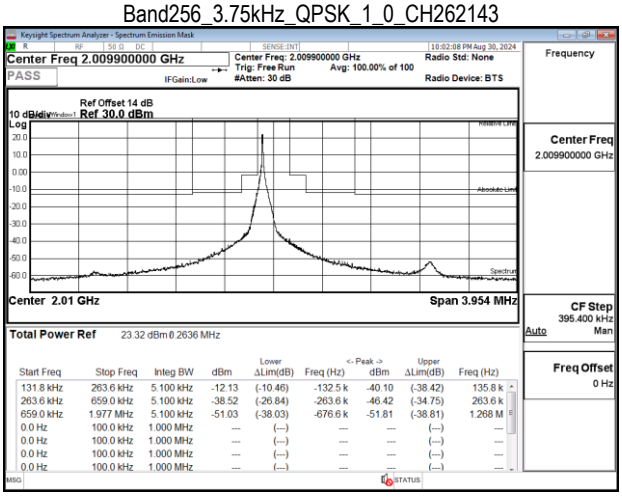
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
133.3 kHz	266.6 kHz	5.100 kHz	-12.46	(-10.94)	-133.3 k	-39.72	(-38.20)	142.6 k
266.6 kHz	666.5 kHz	5.100 kHz	-38.08	(-26.56)	-278.6 k	-44.64	(-33.12)	282.6 k
666.5 kHz	2.000 MHz	5.100 kHz	-51.62	(-38.62)	-706.3 k	-52.09	(-39.09)	1.258 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_BPSK_1_47_CH262143



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
131.8 kHz	263.6 kHz	5.100 kHz	-39.75	(-38.08)	-185.2 k	-15.92	(-14.25)	132.5 k
263.6 kHz	659.0 kHz	5.100 kHz	-46.52	(-34.85)	-281.4 k	-38.50	(-26.83)	281.4 k
659.0 kHz	1.977 MHz	5.100 kHz	-54.57	(-41.57)	-684.5 k	-51.14	(-38.14)	670.7 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_QPSK_1_0_CH262143



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
131.8 kHz	263.6 kHz	5.100 kHz	-12.13	(-10.46)	-132.5 k	-40.10	(-38.42)	135.8 k
263.6 kHz	659.0 kHz	5.100 kHz	-38.52	(-26.84)	-263.6 k	-46.42	(-34.75)	263.6 k
659.0 kHz	1.977 MHz	5.100 kHz	-51.03	(-38.03)	-676.6 k	-51.81	(-38.81)	1.268 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

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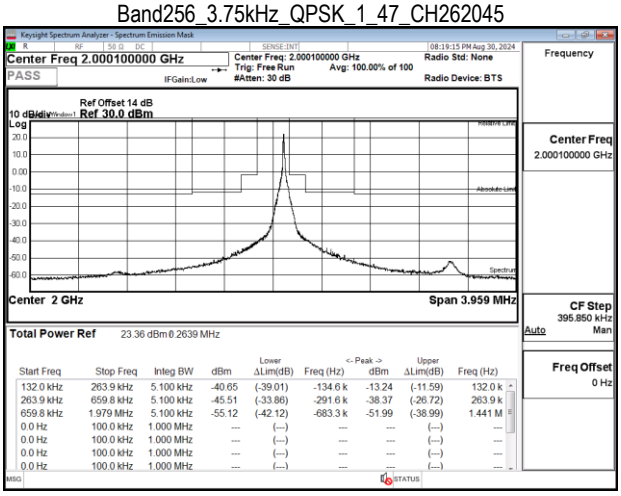
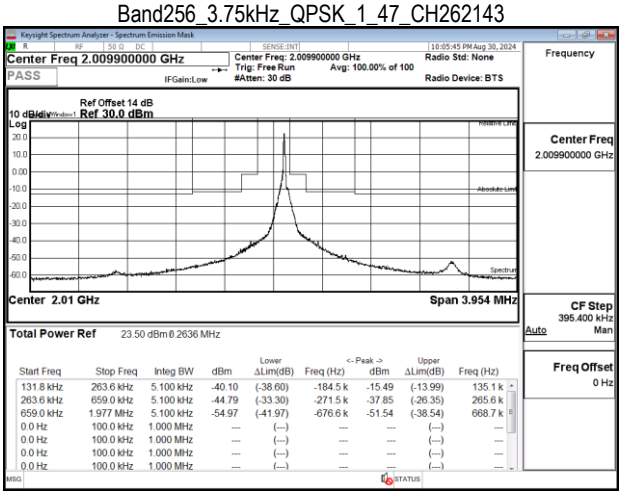
Band256_3.75kHz_QPSK_1_47_CH262045



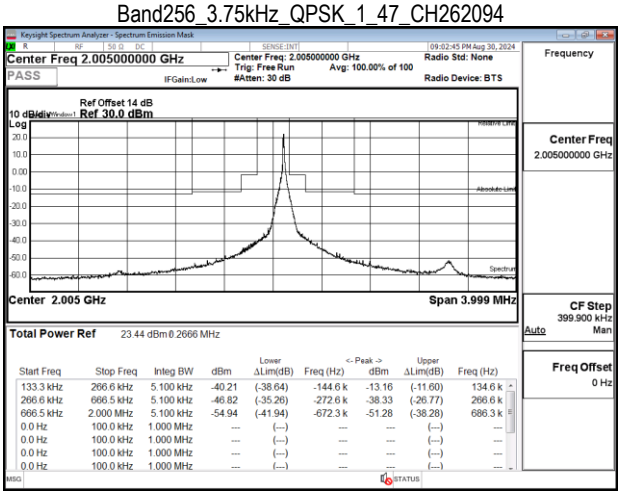
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
132.0 kHz	263.9 kHz	5.100 kHz	-40.65	(-39.01)	-134.6 k	-13.24	(-11.59)	132.0 k
263.9 kHz	659.8 kHz	5.100 kHz	-45.51	(-33.86)	-291.6 k	-38.37	(-26.72)	263.9 k
659.8 kHz	1.979 MHz	5.100 kHz	-55.12	(-42.12)	-683.3 k	-51.99	(-38.99)	1.441 M
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_QPSK_1_47_CH262143



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
131.8 kHz	263.6 kHz	5.100 kHz	-40.10	(-38.60)	-184.5 k	-15.49	(-13.99)	135.1 k
263.6 kHz	659.0 kHz	5.100 kHz	-44.79	(-33.30)	-271.5 k	-37.85	(-26.35)	265.6 k
659.0 kHz	1.977 MHz	5.100 kHz	-54.97	(-41.97)	-676.6 k	-51.54	(-38.54)	668.7 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

Band256_3.75kHz_QPSK_1_47_CH262094



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)
133.3 kHz	266.6 kHz	5.100 kHz	-40.21	(-38.64)	-144.6 k	-13.16	(-11.60)	134.6 k
266.6 kHz	666.5 kHz	5.100 kHz	-46.82	(-35.26)	-272.6 k	-38.33	(-26.77)	266.6 k
666.5 kHz	2.000 MHz	5.100 kHz	-54.94	(-41.94)	-672.3 k	-51.28	(-38.28)	686.3 k
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---
0.0 Hz	100.0 kHz	1.000 MHz	---	(---)	---	---	(---)	---

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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

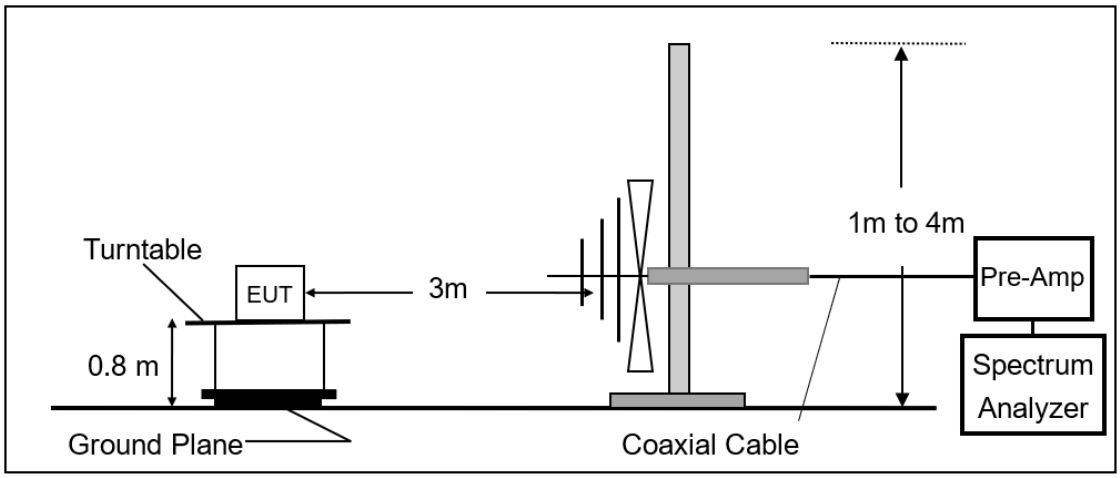
11.1 Standard Applicable

According to FCC §25.202(f)(3)

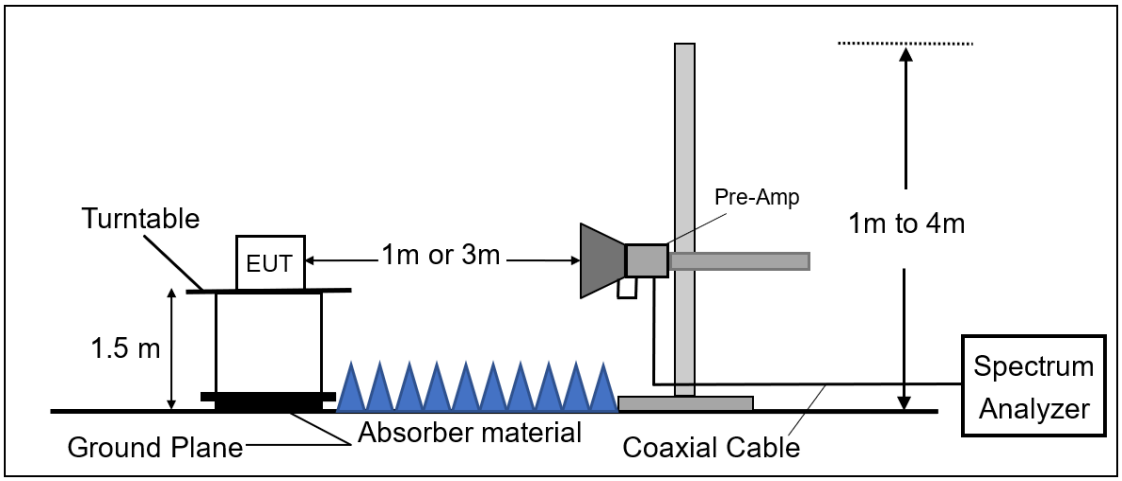
43 + 10 log p (watts) in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

KDB 971168 D01 v03r01/D02 v02r02

For each out of band emissions measurement:

- Set display line at -13 dBm (the limit of 43 + 10Log(P))
- Set RWB >= 4kHz and VBW >= 3 x RBW with peak detector for all measurements. The

limit is an average limit so any emissions that exceed the limit using the peak detector are measured using rms detection with an averaging time of 2ms.

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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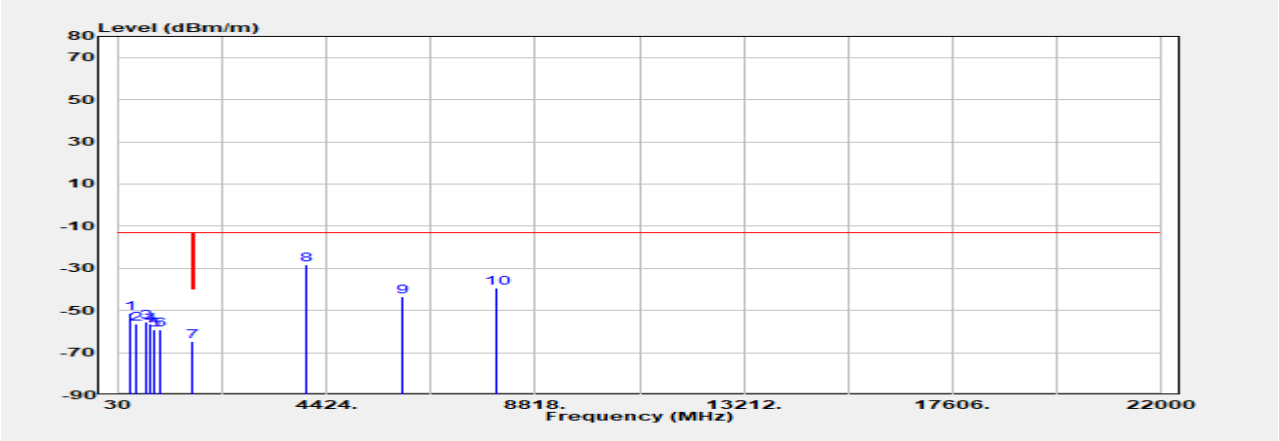
11.4 Measurement Result:

Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2000.1 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
265.710	-51.11	-53.19	4.14	-2.06	-13.01	-38.10
400.540	-56.46	-58.16	4.22	-2.52	-13.01	-43.45
600.360	-55.29	-55.97	3.74	-3.06	-13.01	-42.28
680.870	-56.81	-57.50	3.94	-3.25	-13.01	-43.80
779.810	-59.27	-59.09	3.32	-3.50	-13.01	-46.26
920.460	-59.00	-58.86	3.65	-3.79	-13.01	-45.99
1595.000	-64.86	-69.10	9.20	-4.96	-40.00	-24.86
4000.200	-28.17	-32.92	12.70	-7.95	-13.01	-15.16
6000.300	-43.34	-46.72	13.20	-9.82	-13.01	-30.33
8000.400	-39.31	-39.01	11.10	-11.40	-13.01	-26.30

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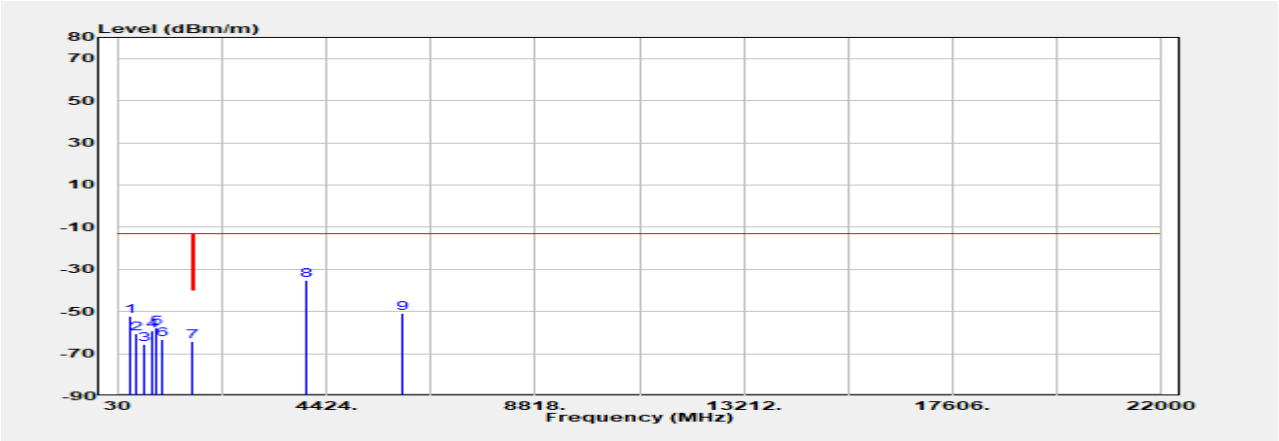
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2000.1 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
265.710	-52.18	-54.26	4.14	-2.06	-13.01	-39.17
399.570	-60.41	-62.10	4.21	-2.52	-13.01	-47.40
556.710	-65.77	-67.07	4.26	-2.96	-13.01	-52.76
728.400	-59.15	-59.14	3.36	-3.37	-13.01	-46.14
819.580	-57.80	-57.87	3.65	-3.58	-13.01	-44.79
955.380	-63.26	-62.80	3.38	-3.84	-13.01	-50.25
1578.000	-64.15	-68.38	9.18	-4.95	-40.00	-24.15
4000.200	-35.01	-39.76	12.70	-7.95	-13.01	-22.00
6000.300	-50.61	-53.99	13.20	-9.82	-13.01	-37.60

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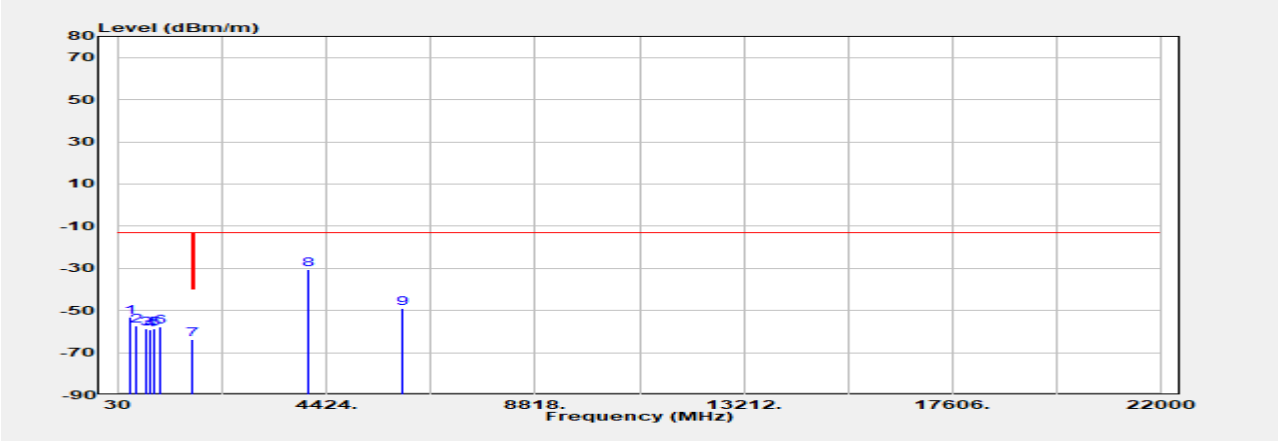
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2010 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
252.130	-53.18	-55.28	4.11	-2.01	-13.01	-40.17
398.600	-57.39	-59.07	4.19	-2.51	-13.01	-44.38
599.390	-58.67	-59.35	3.74	-3.06	-13.01	-45.66
681.840	-59.16	-59.85	3.95	-3.26	-13.01	-46.15
775.930	-58.47	-58.35	3.36	-3.48	-13.01	-45.46
912.700	-57.79	-57.66	3.64	-3.77	-13.01	-44.78
1578.000	-63.71	-67.94	9.18	-4.95	-40.00	-23.71
4020.000	-30.48	-35.20	12.70	-7.98	-13.01	-17.47
6030.000	-49.05	-52.48	13.26	-9.83	-13.01	-36.04

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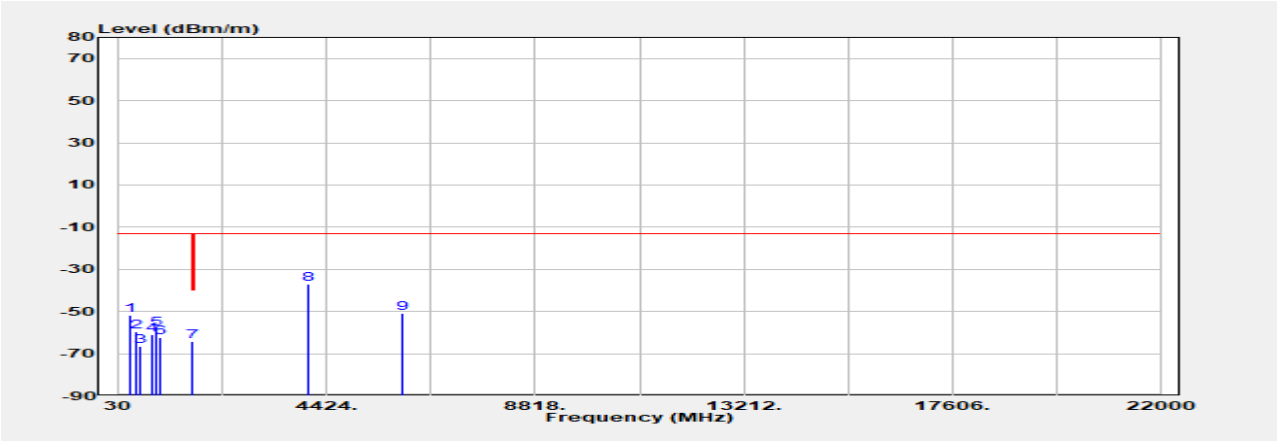
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2010 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
266.680	-51.61	-53.68	4.13	-2.06	-13.01	-38.60
399.570	-59.46	-61.15	4.21	-2.52	-13.01	-46.45
495.600	-66.37	-67.76	4.18	-2.79	-13.01	-53.36
741.010	-60.96	-60.93	3.37	-3.40	-13.01	-47.95
798.240	-58.06	-58.12	3.59	-3.53	-13.01	-45.05
919.490	-62.50	-62.38	3.67	-3.79	-13.01	-49.49
1561.000	-64.18	-68.34	9.10	-4.94	-40.00	-24.18
4020.000	-37.03	-41.75	12.70	-7.98	-13.01	-24.02
6030.000	-51.01	-54.44	13.26	-9.83	-13.01	-38.00

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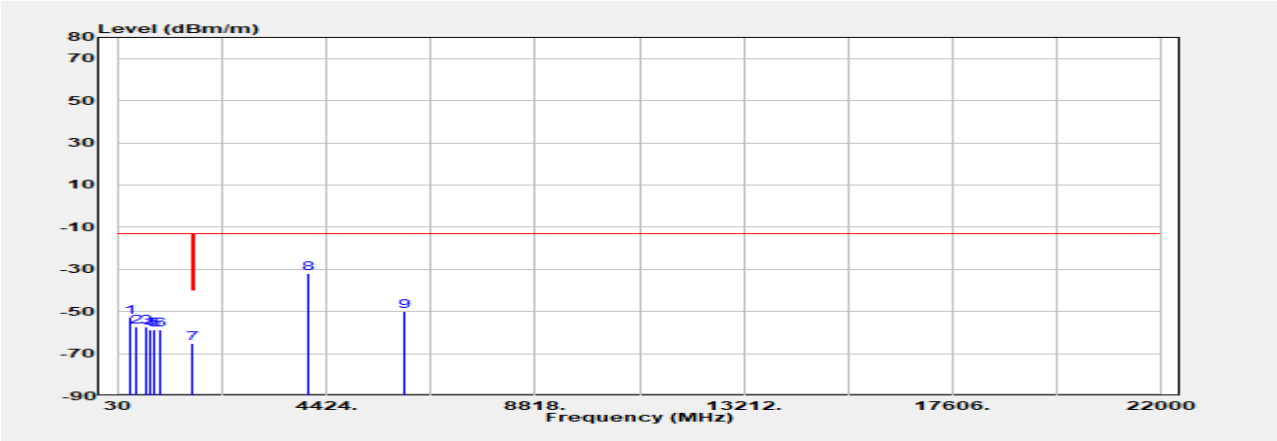
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2019.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
264.740	-52.82	-54.90	4.14	-2.06	-13.01	-39.81
399.570	-57.18	-58.87	4.21	-2.52	-13.01	-44.17
597.450	-57.27	-57.98	3.76	-3.05	-13.01	-44.26
681.840	-58.45	-59.14	3.95	-3.26	-13.01	-45.44
769.140	-58.88	-58.73	3.32	-3.47	-13.01	-45.87
910.760	-58.84	-58.66	3.58	-3.76	-13.01	-45.83
1595.000	-65.01	-69.25	9.20	-4.96	-40.00	-25.01
4039.800	-32.01	-36.70	12.70	-8.01	-13.01	-19.00
6059.700	-50.07	-53.52	13.30	-9.85	-13.01	-37.06

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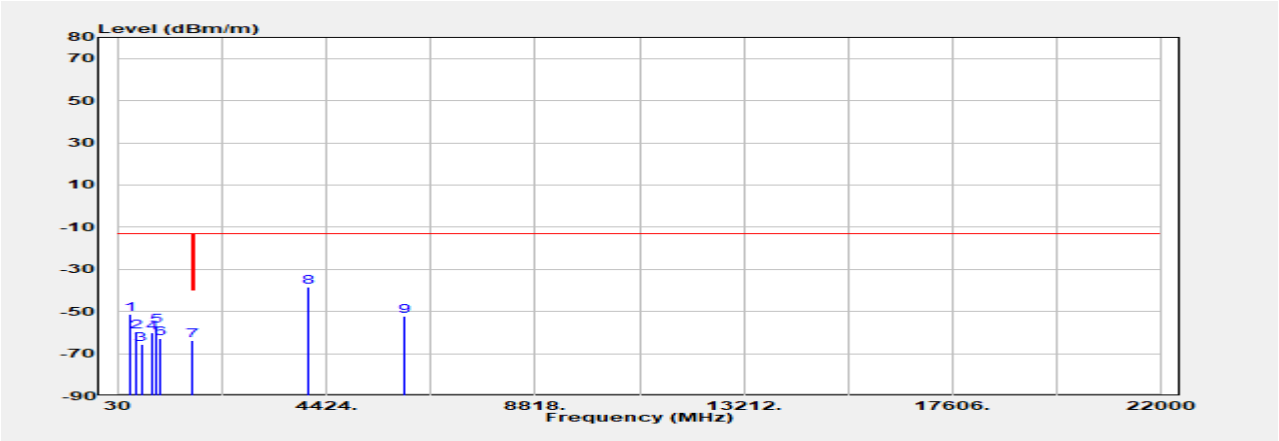
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN B23	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2019.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
268.620	-51.08	-53.14	4.12	-2.06	-13.01	-38.07
399.570	-59.45	-61.14	4.21	-2.52	-13.01	-46.44
499.480	-65.56	-67.00	4.25	-2.81	-13.01	-52.55
747.800	-60.07	-60.11	3.45	-3.41	-13.01	-47.06
800.180	-56.64	-56.75	3.64	-3.53	-13.01	-43.63
918.520	-62.70	-62.58	3.67	-3.79	-13.01	-49.69
1578.000	-63.66	-67.89	9.18	-4.95	-40.00	-23.66
4039.800	-38.18	-42.87	12.70	-8.01	-13.01	-25.17
6059.700	-52.12	-55.57	13.30	-9.85	-13.01	-39.11

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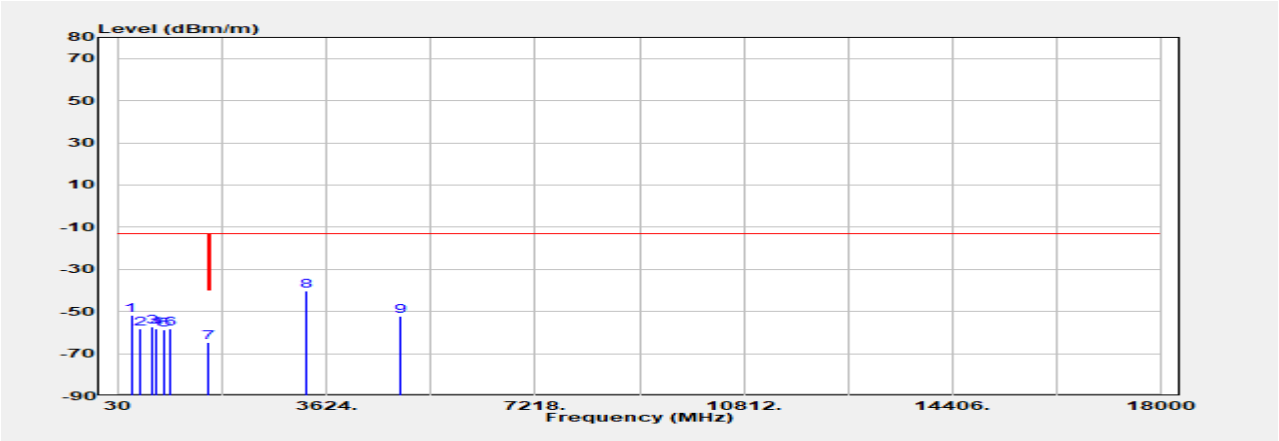
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1626.7 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.460	-51.99	-54.00	3.97	-1.96	-13.01	-38.98
398.600	-58.30	-59.98	4.19	-2.51	-13.01	-45.29
599.390	-57.33	-58.01	3.74	-3.06	-13.01	-44.32
682.810	-58.17	-58.87	3.96	-3.26	-13.01	-45.16
799.210	-58.72	-58.81	3.62	-3.53	-13.01	-45.71
916.580	-58.39	-58.30	3.69	-3.78	-13.01	-45.38
1578.000	-64.58	-68.81	9.18	-4.95	-40.00	-24.58
3253.400	-40.26	-44.81	11.74	-7.19	-13.01	-27.25
4880.100	-52.13	-55.85	12.60	-8.88	-13.01	-39.12

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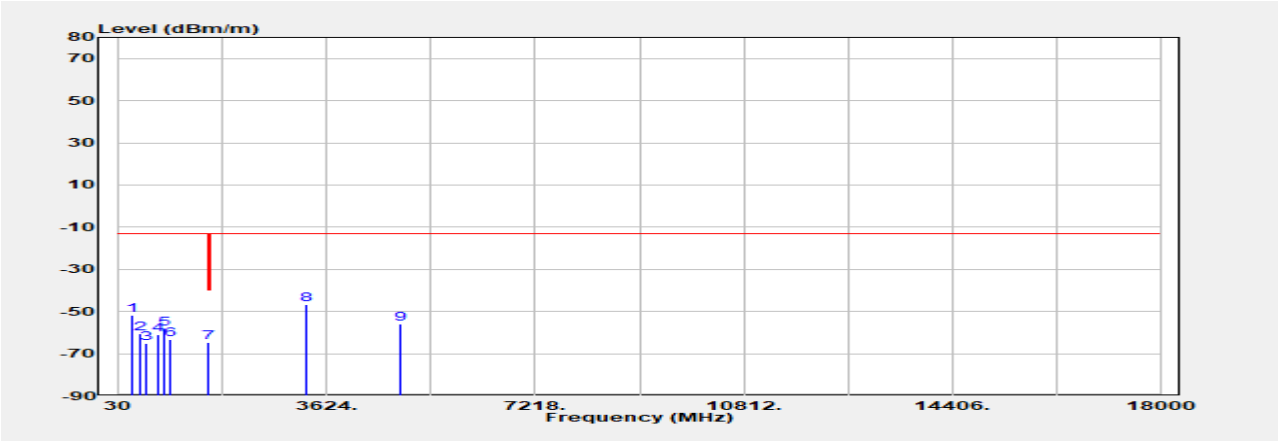
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1626.7 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
266.680	-51.97	-54.04	4.13	-2.06	-13.01	-38.96
399.570	-60.40	-62.09	4.21	-2.52	-13.01	-47.39
501.420	-65.02	-66.44	4.23	-2.81	-13.01	-52.01
719.670	-60.92	-61.11	3.55	-3.36	-13.01	-47.91
798.240	-58.06	-58.12	3.59	-3.53	-13.01	-45.05
907.850	-63.24	-63.11	3.62	-3.75	-13.01	-50.23
1578.000	-64.59	-68.82	9.18	-4.95	-40.00	-24.59
3253.400	-46.91	-51.46	11.74	-7.19	-13.01	-33.90
4880.100	-55.97	-59.69	12.60	-8.88	-13.01	-42.96

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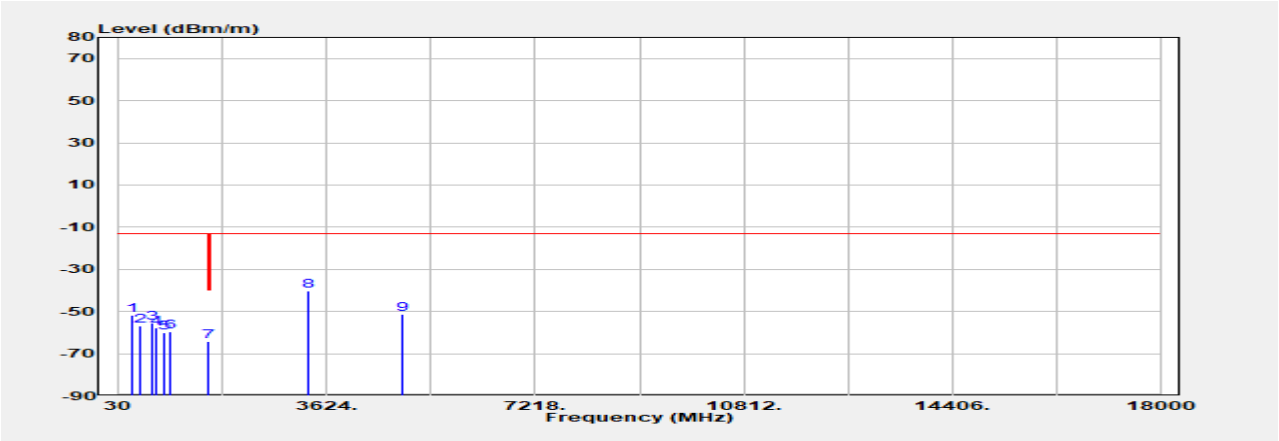
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1643.3 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
256.010	-51.55	-53.73	4.20	-2.02	-13.01	-38.54
399.570	-56.74	-58.43	4.21	-2.52	-13.01	-43.73
600.360	-55.53	-56.21	3.74	-3.06	-13.01	-42.52
684.750	-57.85	-58.57	3.99	-3.27	-13.01	-44.84
798.240	-59.85	-59.91	3.59	-3.53	-13.01	-46.84
909.790	-59.45	-59.26	3.57	-3.76	-13.01	-46.44
1578.000	-64.00	-68.23	9.18	-4.95	-40.00	-24.00
3286.600	-40.06	-45.02	12.14	-7.18	-13.01	-27.05
4929.900	-51.50	-55.19	12.60	-8.91	-13.01	-38.49

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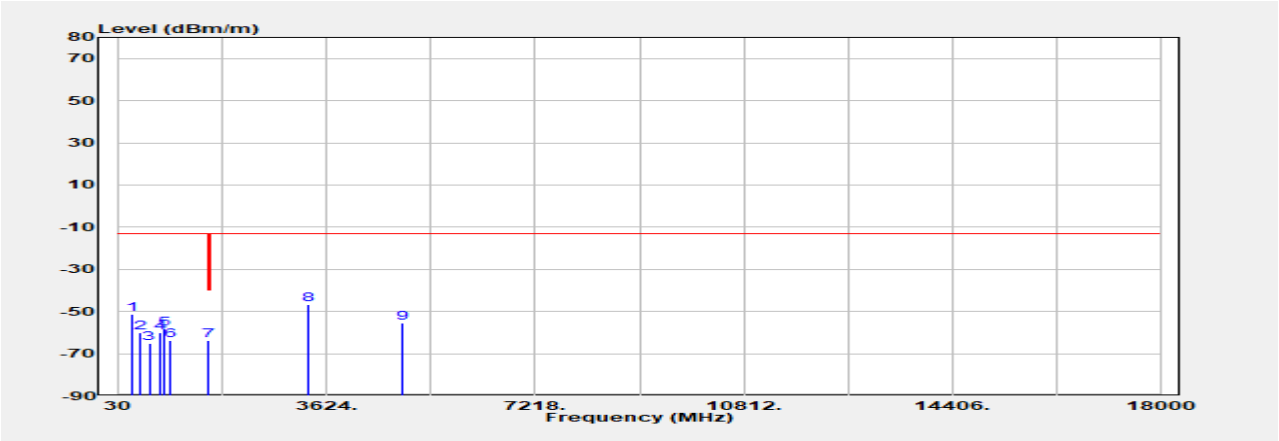
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1643.3 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
271.530	-51.52	-53.52	4.07	-2.07	-13.01	-38.51
398.600	-59.98	-61.66	4.19	-2.51	-13.01	-46.97
551.860	-65.29	-66.62	4.28	-2.95	-13.01	-52.28
735.190	-59.95	-59.99	3.41	-3.37	-13.01	-46.94
797.270	-58.28	-58.31	3.56	-3.53	-13.01	-45.27
910.760	-63.57	-63.39	3.58	-3.76	-13.01	-50.56
1578.000	-63.92	-68.15	9.18	-4.95	-40.00	-23.92
3286.600	-46.71	-51.67	12.14	-7.18	-13.01	-33.70
4929.900	-55.44	-59.13	12.60	-8.91	-13.01	-42.43

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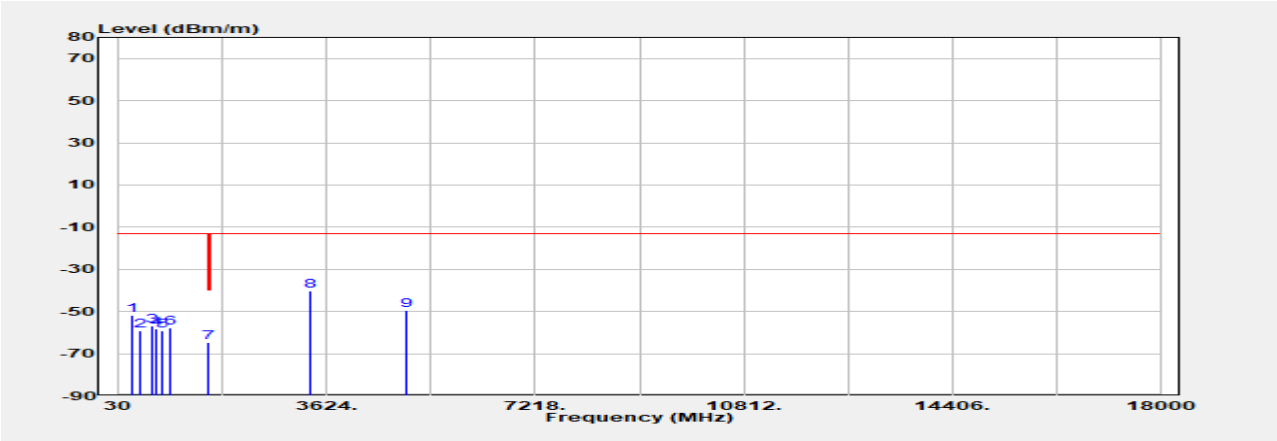
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1659.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
260.860	-51.91	-54.04	4.17	-2.04	-13.01	-38.90
398.600	-59.00	-60.68	4.19	-2.51	-13.01	-45.99
598.420	-56.70	-57.39	3.75	-3.06	-13.01	-43.69
677.960	-58.32	-59.02	3.95	-3.25	-13.01	-45.31
777.870	-59.27	-59.12	3.34	-3.49	-13.01	-46.26
912.700	-57.57	-57.44	3.64	-3.77	-13.01	-44.56
1561.000	-64.47	-68.63	9.10	-4.94	-40.00	-24.47
3319.800	-40.23	-45.45	12.42	-7.20	-13.01	-27.22
4979.700	-49.56	-53.23	12.60	-8.93	-13.01	-36.55

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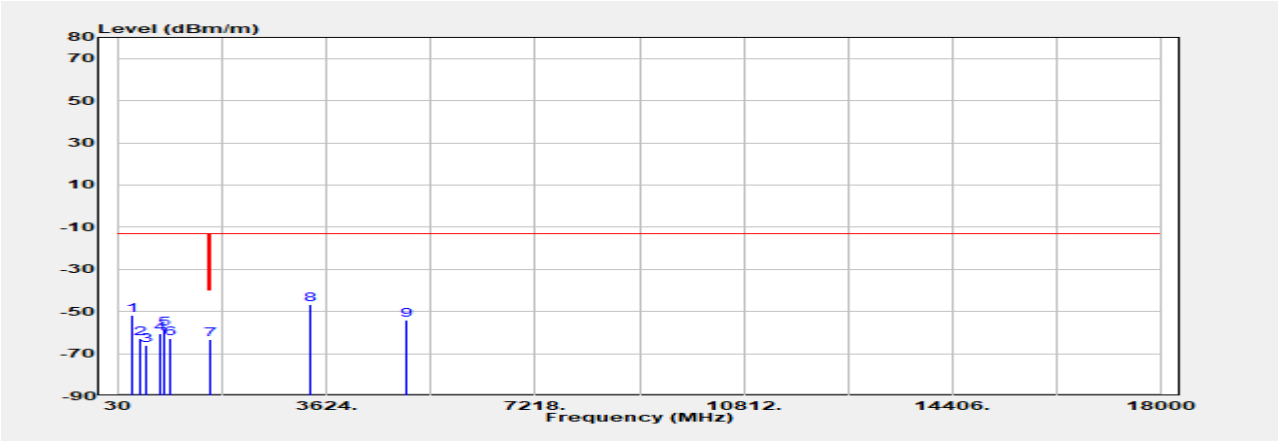
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n255	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:1659.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
267.650	-51.96	-54.02	4.12	-2.06	-13.01	-38.95
399.570	-62.81	-64.50	4.21	-2.52	-13.01	-49.80
498.510	-66.10	-67.53	4.23	-2.80	-13.01	-53.09
749.740	-60.60	-60.66	3.48	-3.42	-13.01	-47.59
797.270	-58.05	-58.08	3.56	-3.53	-13.01	-45.04
914.640	-62.90	-62.82	3.70	-3.78	-13.01	-49.89
1595.000	-63.44	-67.68	9.20	-4.96	-40.00	-23.44
3319.800	-46.67	-51.89	12.42	-7.20	-13.01	-33.66
4979.700	-54.04	-57.71	12.60	-8.93	-13.01	-41.03

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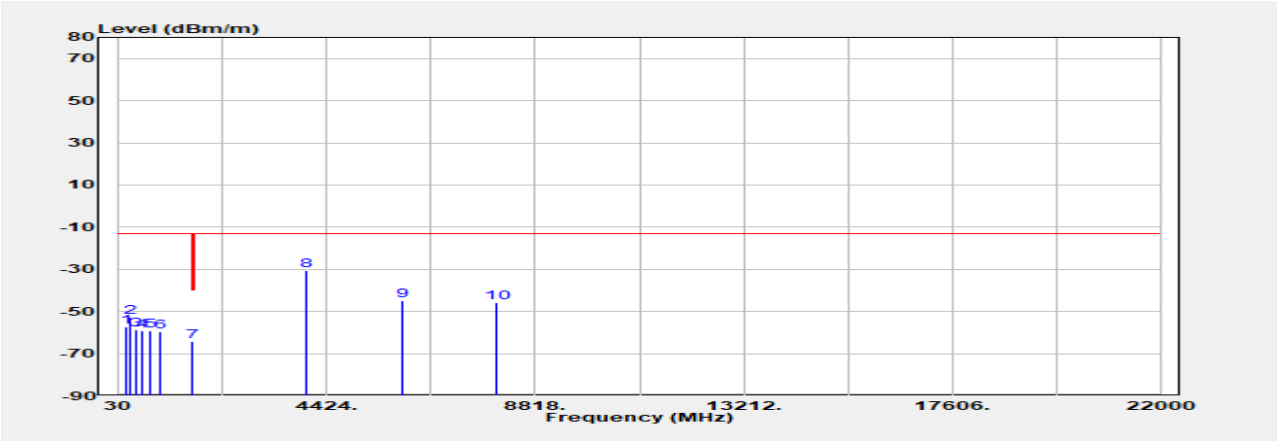
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2000.1 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
175.500	-57.43	-56.14	0.37	-1.67	-13.01	-44.42
257.950	-52.51	-54.67	4.19	-2.03	-13.01	-39.50
399.570	-58.60	-60.29	4.21	-2.52	-13.01	-45.59
505.300	-58.92	-60.25	4.15	-2.82	-13.01	-45.91
680.870	-59.14	-59.83	3.94	-3.25	-13.01	-46.13
915.610	-59.61	-59.53	3.70	-3.78	-13.01	-46.60
1578.000	-64.23	-68.46	9.18	-4.95	-40.00	-24.23
4000.200	-30.44	-35.19	12.70	-7.95	-13.01	-17.43
6000.300	-44.94	-48.32	13.20	-9.82	-13.01	-31.93
8000.400	-45.61	-45.31	11.10	-11.40	-13.01	-32.60

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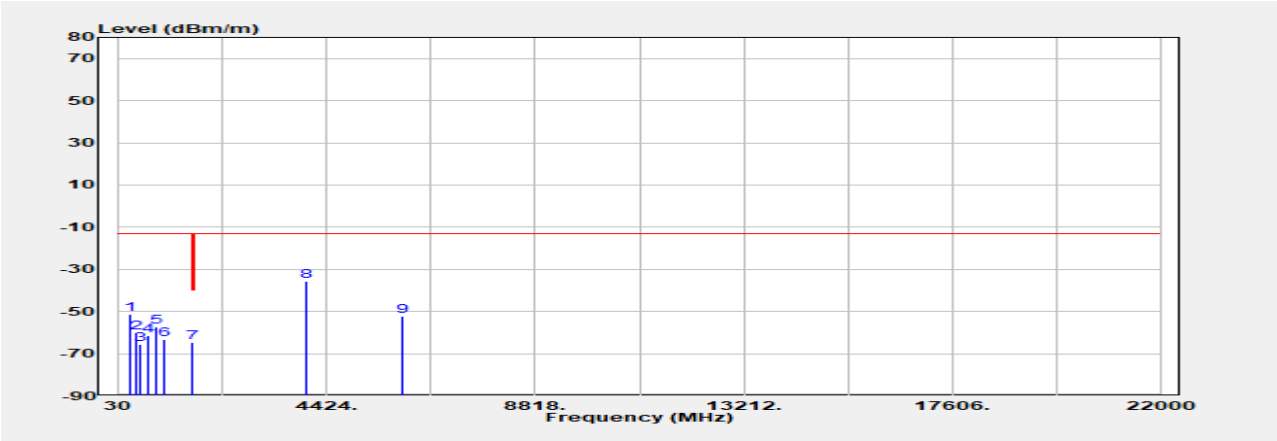
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2000.1 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
264.740	-51.19	-53.27	4.14	-2.06	-13.01	-38.18
399.570	-59.89	-61.58	4.21	-2.52	-13.01	-46.88
466.500	-65.48	-66.73	3.96	-2.71	-13.01	-52.47
658.560	-61.26	-61.81	3.75	-3.20	-13.01	-48.25
797.270	-57.09	-57.12	3.56	-3.53	-13.01	-44.08
974.780	-63.20	-62.96	3.65	-3.89	-13.01	-50.19
1578.000	-64.62	-68.85	9.18	-4.95	-40.00	-24.62
4000.200	-35.59	-40.34	12.70	-7.95	-13.01	-22.58
6000.300	-52.19	-55.57	13.20	-9.82	-13.01	-39.18

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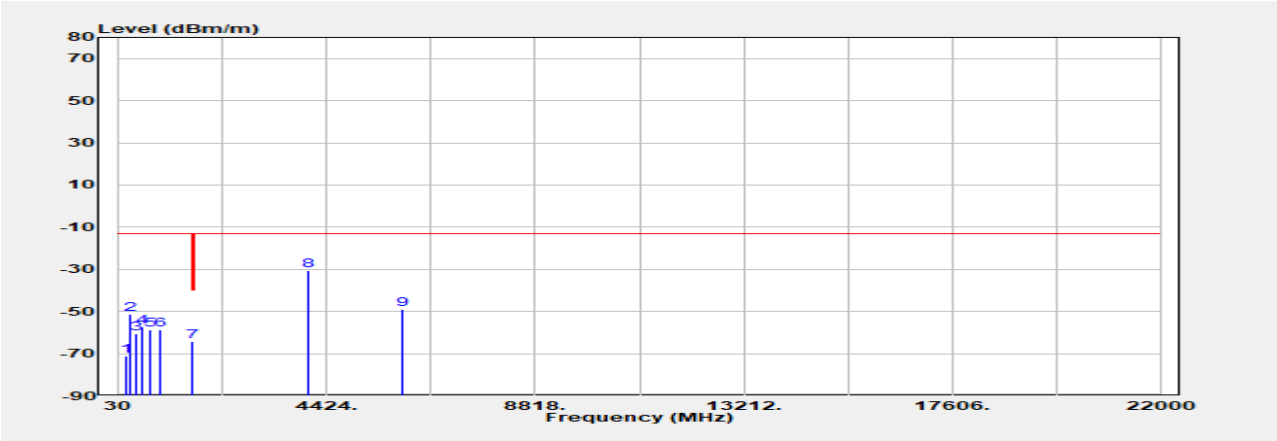
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2005 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
177.440	-71.33	-70.44	0.79	-1.68	-13.01	-58.32
265.710	-51.32	-53.40	4.14	-2.06	-13.01	-38.31
398.600	-60.56	-62.24	4.19	-2.51	-13.01	-47.55
523.730	-57.32	-58.61	4.16	-2.87	-13.01	-44.31
679.900	-58.66	-59.34	3.93	-3.25	-13.01	-45.65
912.700	-58.53	-58.40	3.64	-3.77	-13.01	-45.52
1595.000	-64.20	-68.44	9.20	-4.96	-40.00	-24.20
4010.000	-30.71	-35.45	12.70	-7.96	-13.01	-17.70
6015.000	-49.12	-52.52	13.23	-9.83	-13.01	-36.11

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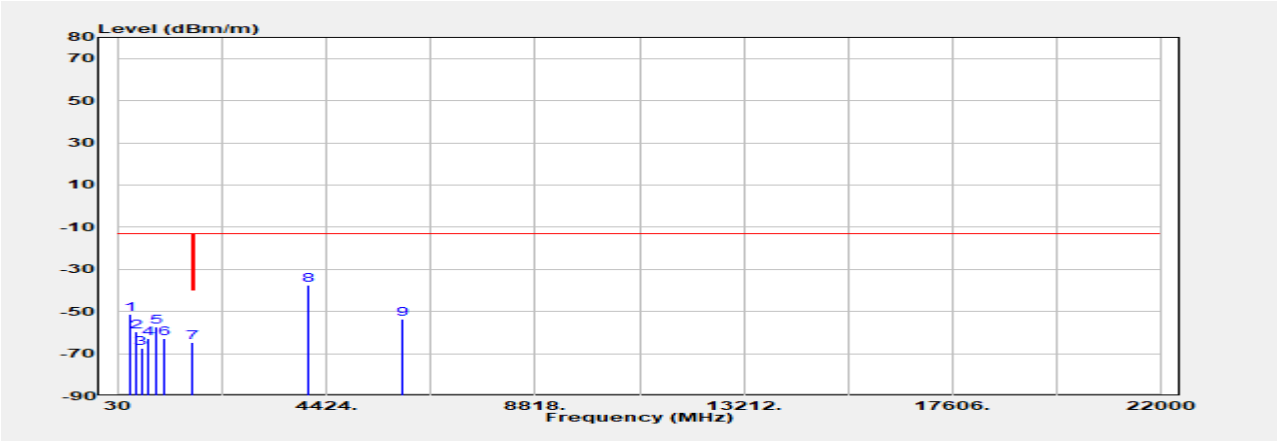
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2005 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
261.830	-51.44	-53.57	4.17	-2.04	-13.01	-38.43
399.570	-59.73	-61.42	4.21	-2.52	-13.01	-46.72
499.480	-67.22	-68.66	4.25	-2.81	-13.01	-54.21
643.040	-62.60	-63.08	3.64	-3.16	-13.01	-49.59
797.270	-57.19	-57.22	3.56	-3.53	-13.01	-44.18
979.630	-62.67	-62.49	3.70	-3.88	-13.01	-49.66
1578.000	-64.75	-68.98	9.18	-4.95	-40.00	-24.75
4010.000	-37.30	-42.04	12.70	-7.96	-13.01	-24.29
6015.000	-53.79	-57.19	13.23	-9.83	-13.01	-40.78

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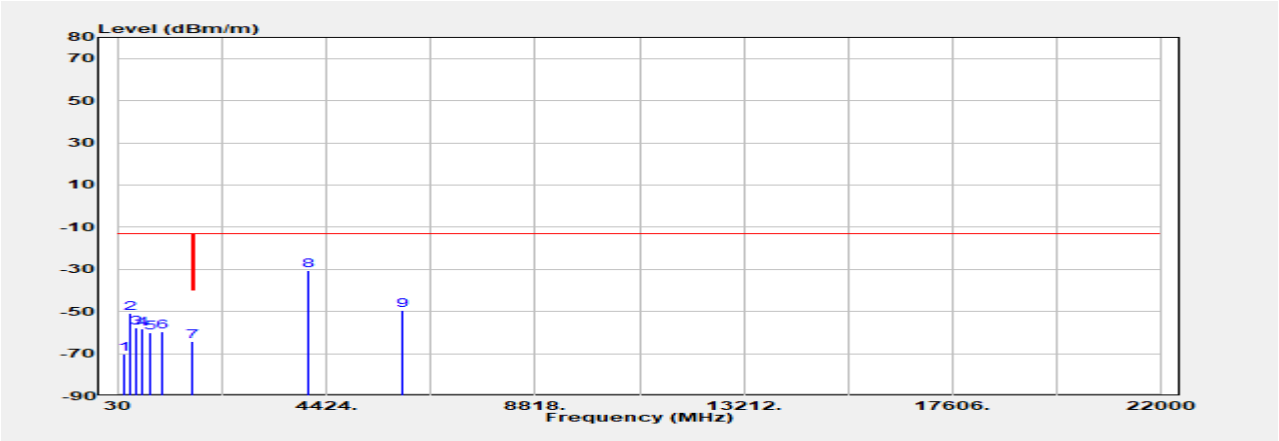
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:2009.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
143.490	-70.35	-66.85	-1.98	-1.52	-13.01	-57.34
257.950	-50.91	-53.07	4.19	-2.03	-13.01	-37.90
399.570	-57.98	-59.67	4.21	-2.52	-13.01	-44.97
522.760	-58.03	-59.30	4.14	-2.87	-13.01	-45.02
691.540	-59.90	-60.47	3.85	-3.28	-13.01	-46.89
945.680	-59.71	-59.27	3.38	-3.82	-13.01	-46.70
1561.000	-64.07	-68.23	9.10	-4.94	-40.00	-24.07
4019.800	-30.74	-35.46	12.70	-7.98	-13.01	-17.73
6029.700	-49.35	-52.78	13.26	-9.83	-13.01	-36.34

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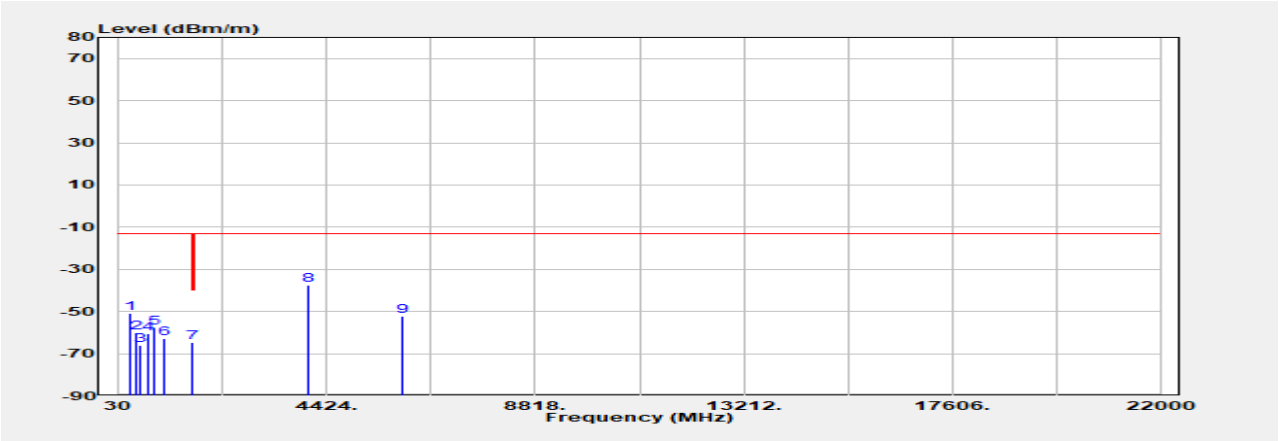
Report Number	:TERF2406001815E2	Test Site	:SAC D
Operation Mode	:NTN n256	Test Date	:2024-08-29
Test Mode	:Tx	Temp./Humi.	:21.9℃/65%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:2009.9 MHz	Engineer	:Pony Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
268.620	-50.80	-52.86	4.12	-2.06	-13.01	-37.79
399.570	-59.99	-61.68	4.21	-2.52	-13.01	-46.98
497.540	-65.94	-67.36	4.22	-2.80	-13.01	-52.93
660.500	-60.61	-61.18	3.77	-3.20	-13.01	-47.60
775.930	-57.57	-57.45	3.36	-3.48	-13.01	-44.56
967.990	-62.70	-62.33	3.50	-3.87	-13.01	-49.69
1578.000	-64.86	-69.09	9.18	-4.95	-40.00	-24.86
4019.800	-37.63	-42.35	12.70	-7.98	-13.01	-24.62
6029.700	-52.25	-55.68	13.26	-9.83	-13.01	-39.24

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12 ADDITIONAL UNWANTED EMISSION (1559MHZ-1610MHZ)

12.1 Standard Applicable

According to FCC §25.216(c)(e)(h))

FCC limit

The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed −70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

The e.i.r.p density of emissions from mobile earth stations with assigned uplink frequencies between 1990 MHz and 2025 MHz shall not exceed −70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in frequencies between 1559 MHz and 1610 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1559 MHz and 1605 MHz shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1605 MHz and 1610 MHz manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval.

Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from −70 dBW/MHz at 1605 MHz to −46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from −80 dBW at 1605 MHz to −56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

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12.2 EUT Setup

Same as section 11.2 in this report

12.3 Measurement Procedure:

KDB 971168 D01 v03r01/D02 v02r02
Measure wideband emissions using either:
RBW = 1MHz, VB = 3MHz
RBW < 1MHz, integrate over 1MHz if necessary
Measure narrowband emissions using:
RBW = 10kHz, VB = 30kHz as worst case setting

Set detector = rms, sweep time ~ number of points x 2ms, and sweep multiple times with max hold enabled. When the detector is set to rms the number of points is set to exceed the minimum number required by ANSI C63.26 for average measurements. A peak detector may be used (e.g. to avoid slow sweep times for the narrowband emissions measurements) in lieu of average rms detection as this will provide a more conservative (higher) measured value than the rms value.

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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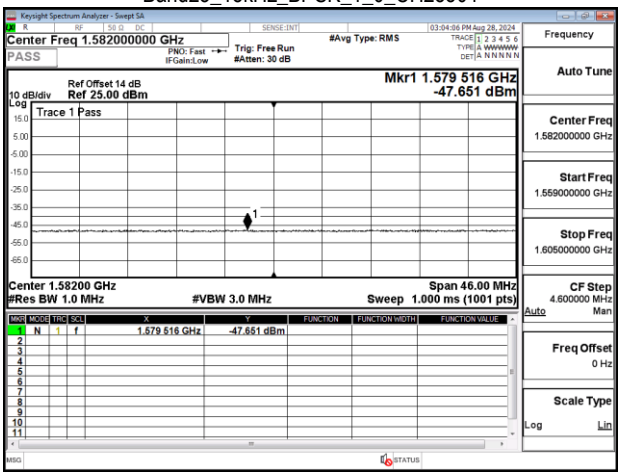
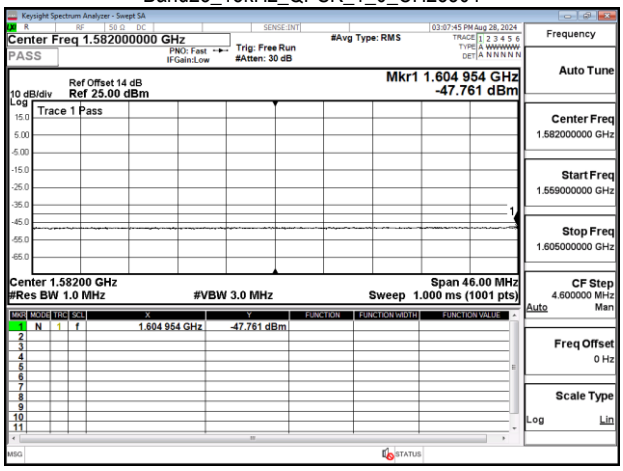
12.4 Measurement Result:

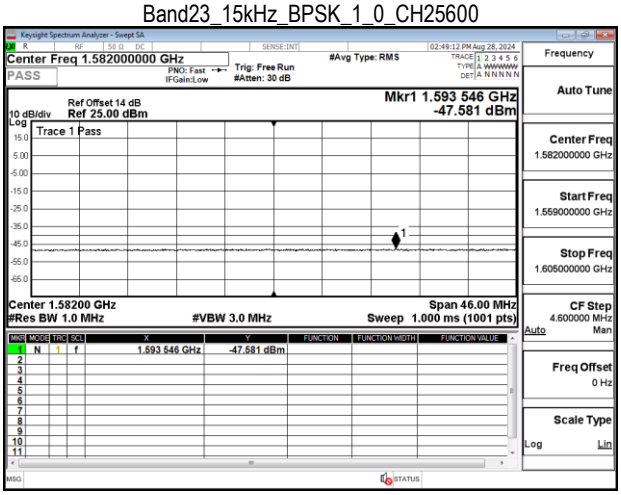
Band23_15kHz_BPSK_1_0_CH25501



Band23_15kHz_QPSK_1_0_CH25501



Band23_15kHz_BPSK_1_0_CH25600



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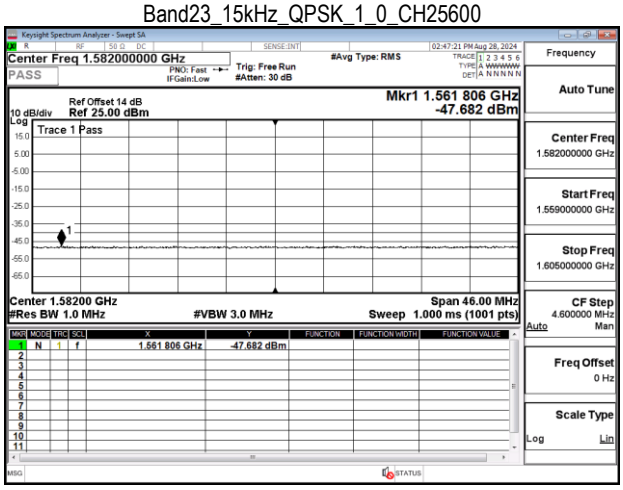
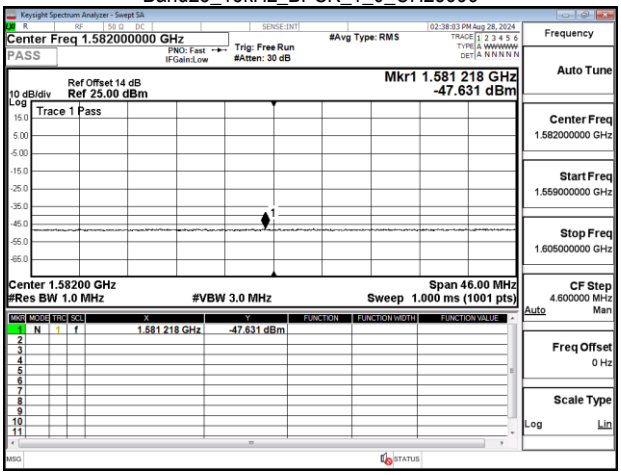


Band23_15kHz_BPSK_1_0_CH25699



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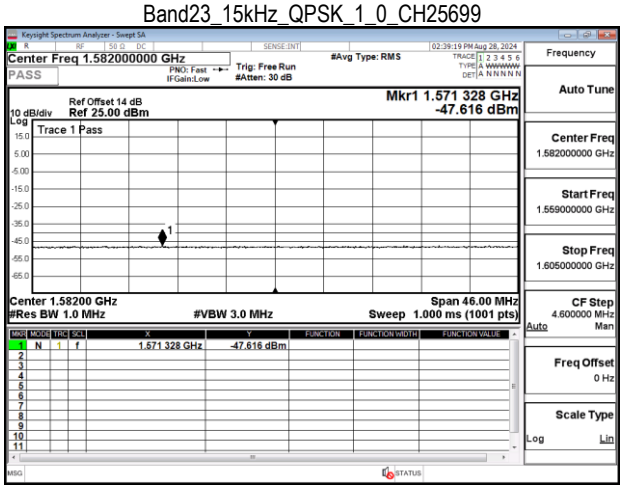

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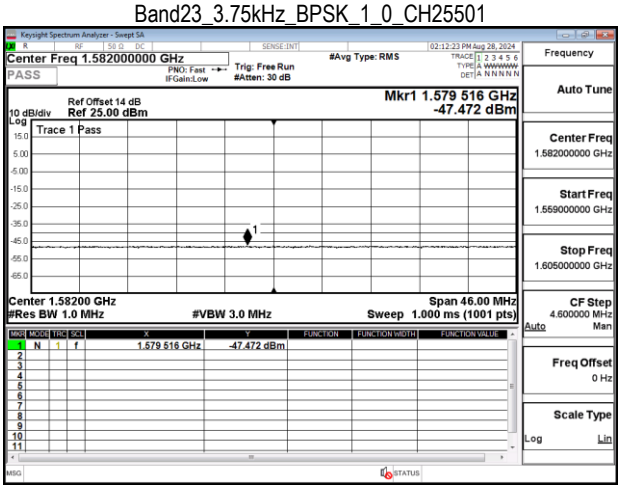
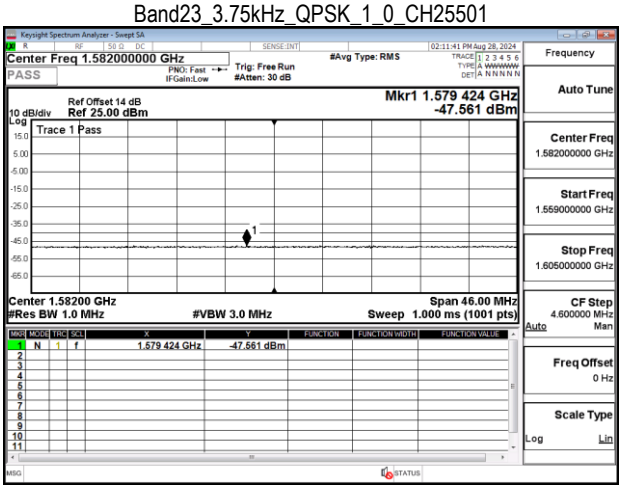
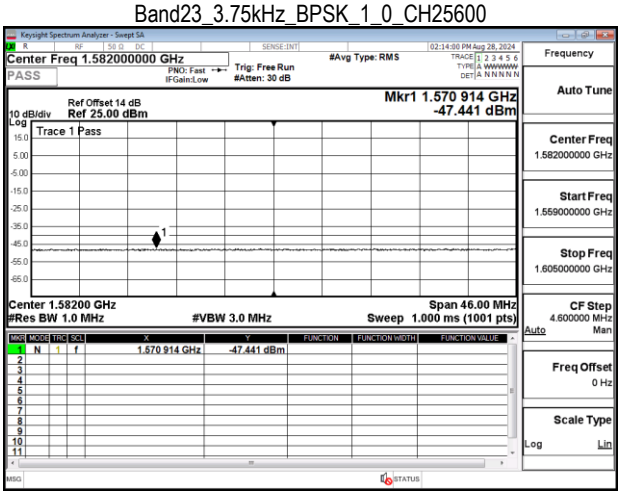
Band23_3.75kHz_BPSK_1_0_CH25501



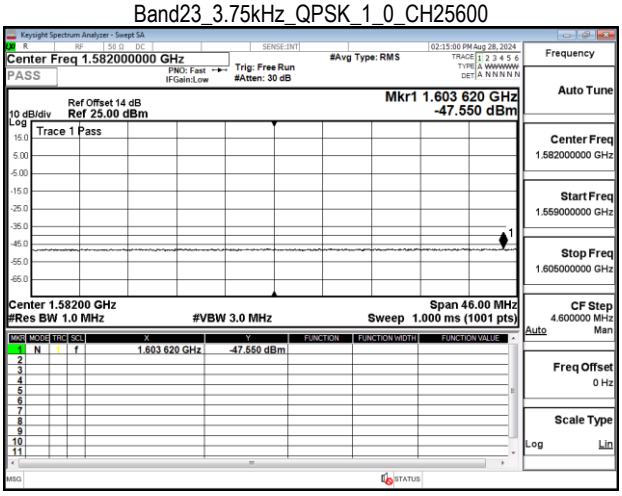
Band23_3.75kHz_QPSK_1_0_CH25501



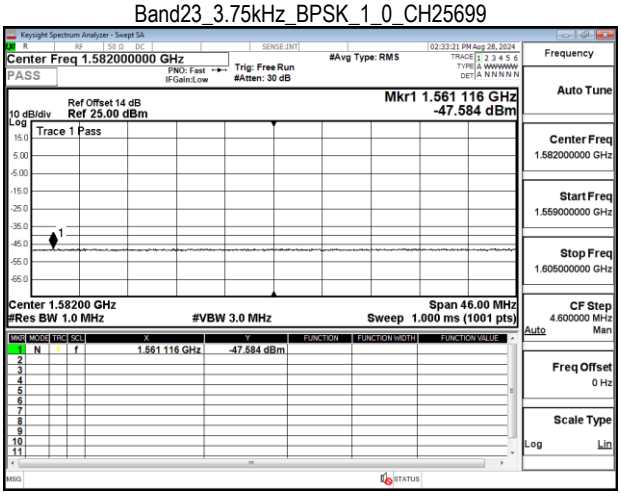
Band23_3.75kHz_BPSK_1_0_CH25600



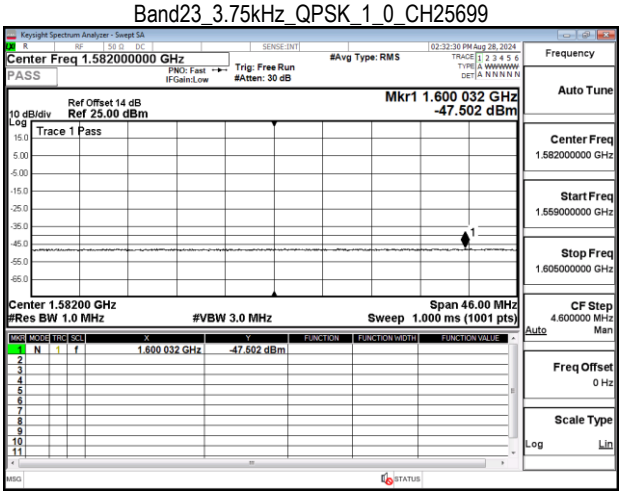
Band23_3.75kHz_QPSK_1_0_CH25600



Band23_3.75kHz_BPSK_1_0_CH25699



Band23_3.75kHz_QPSK_1_0_CH25699



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