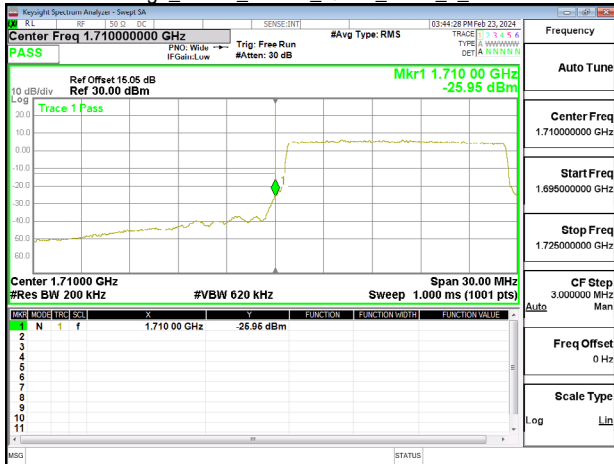
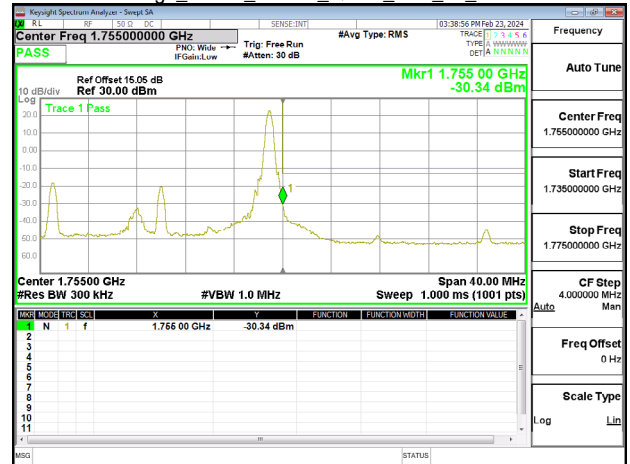


Band Edge_Band4_15MHz_QPSK_RB75_0_CH20025



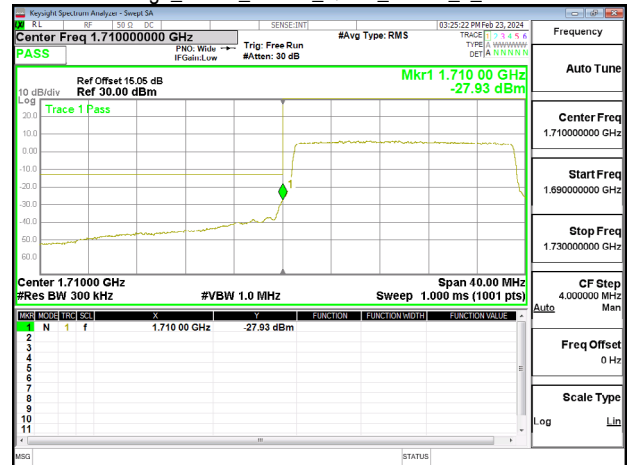
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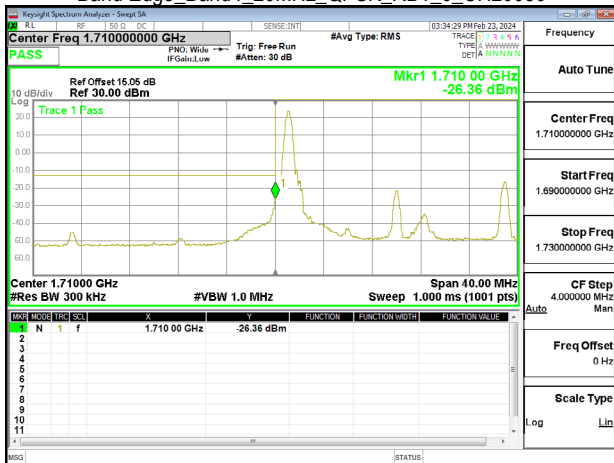
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Band Edge_Band4_20MHz_QPSK_RB1_0_CH20050



Band Edge_Band4_20MHz_QPSK_RB100_0_CH20300



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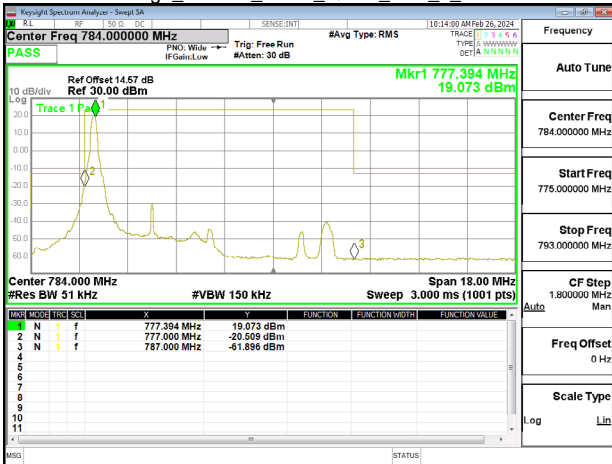
t (886-2) 2299-3279

f (886-2) 2298-0488

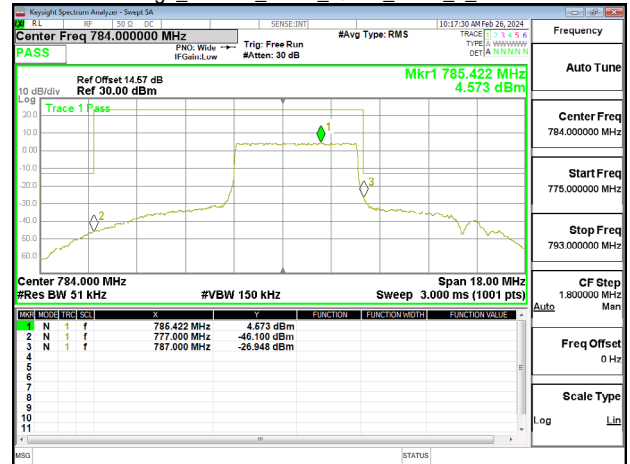
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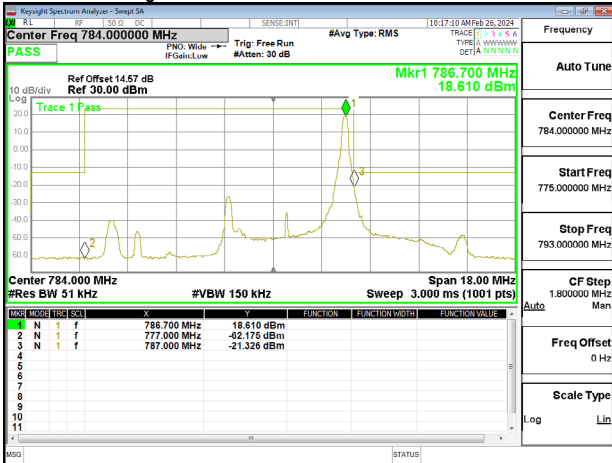
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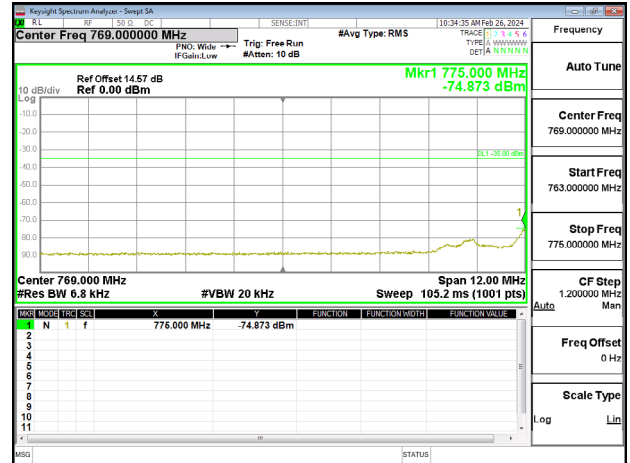
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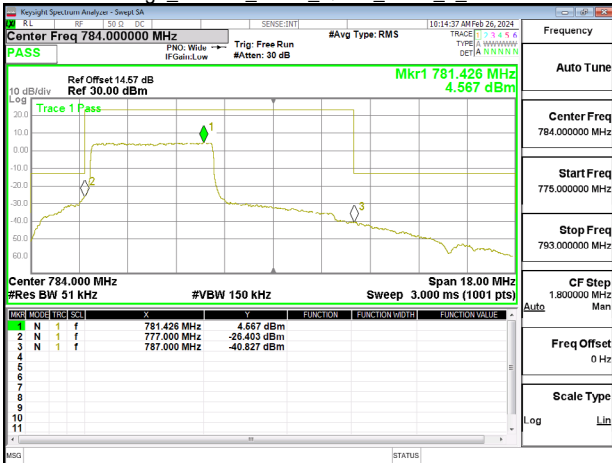
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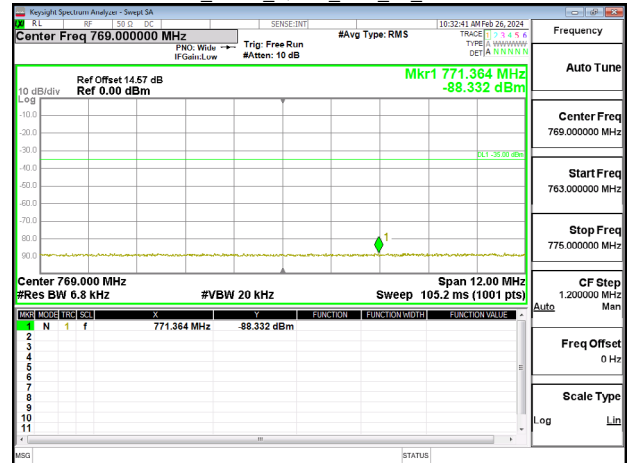
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Band Edge_Band13_5MHz_QPSK_RB25_0_CH23205



Band13_5MHz_QPSK_RB1_24_CH23255



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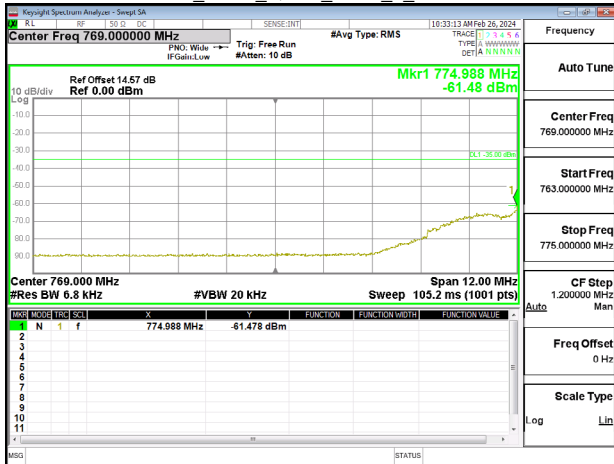
t (886-2) 2299-3279

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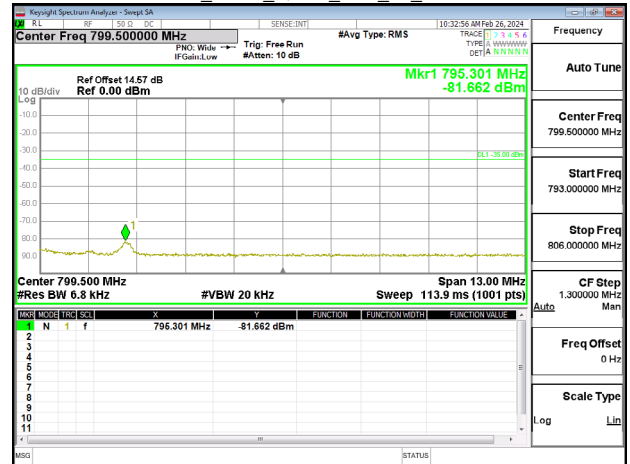
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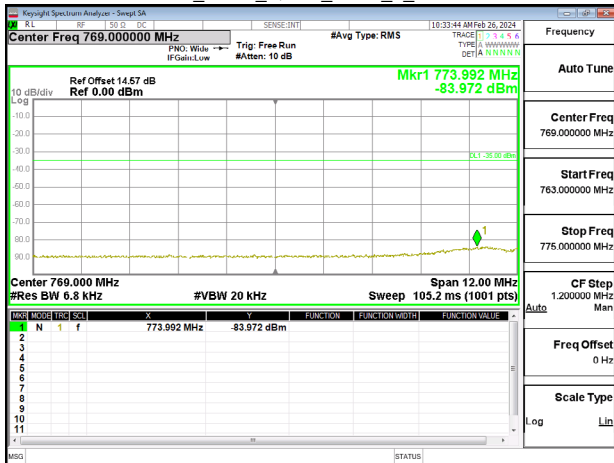
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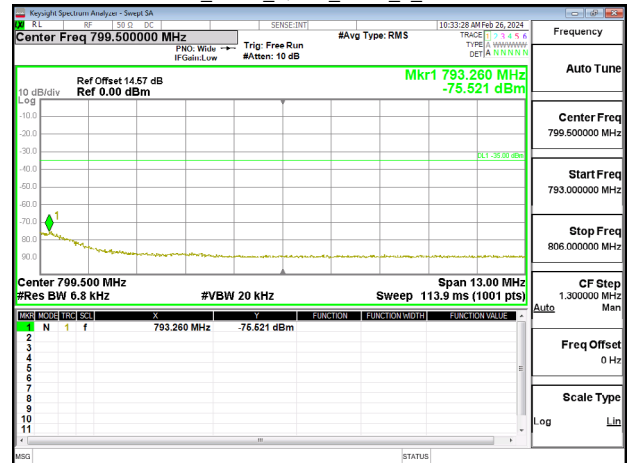
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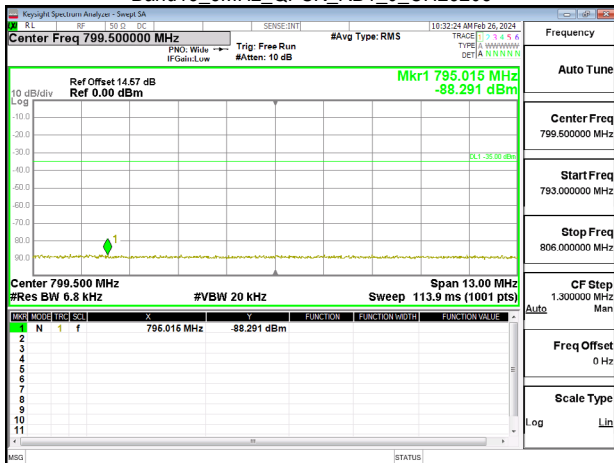
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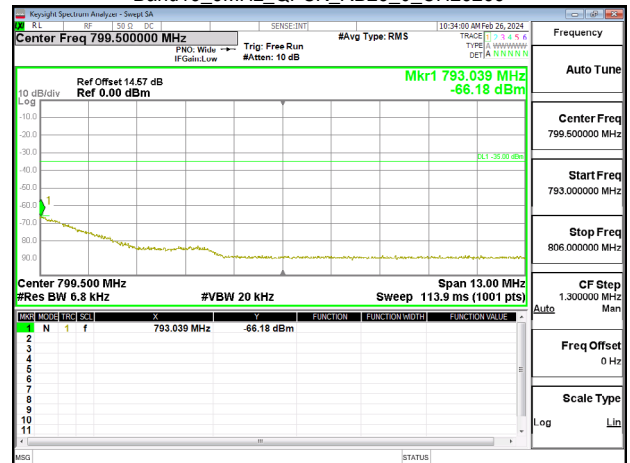
Band13_5MHz_QPSK_RB25_0_CH23205



Band13_5MHz_QPSK_RB1_0_CH23205



Band13_5MHz_QPSK_RB25_0_CH23255



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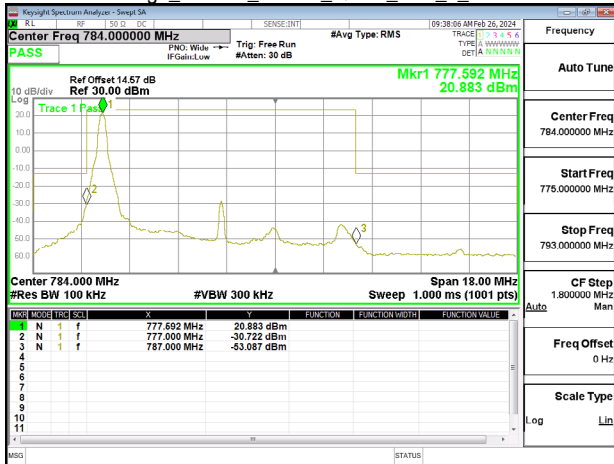
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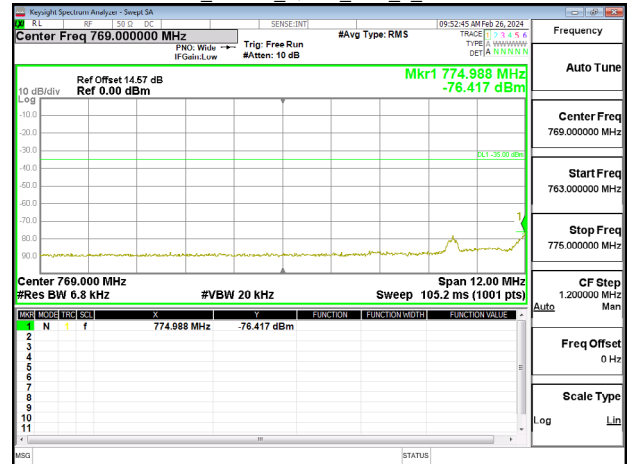
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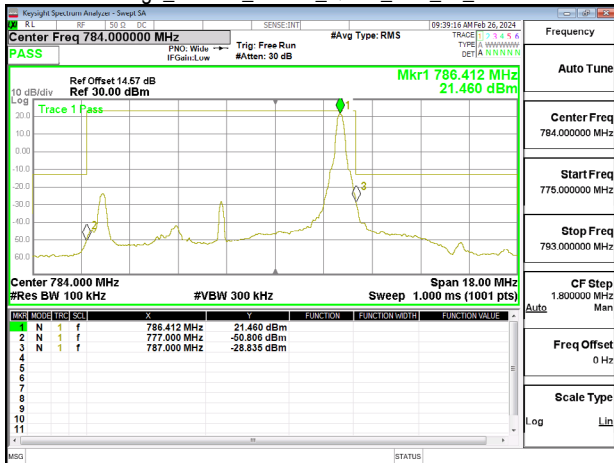
Band Edge_Band13_10MHz_QPSK_RB1_0_CH23230



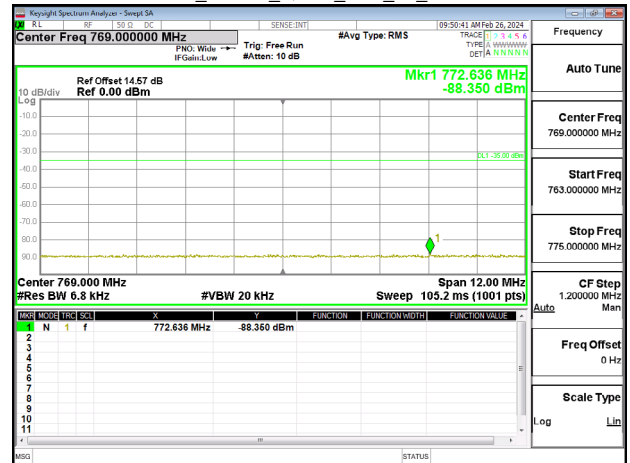
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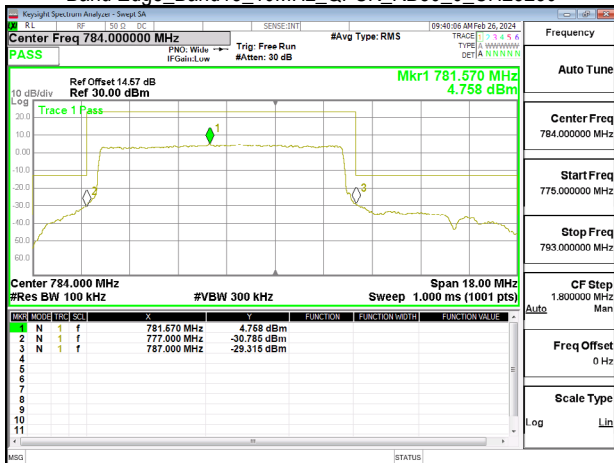
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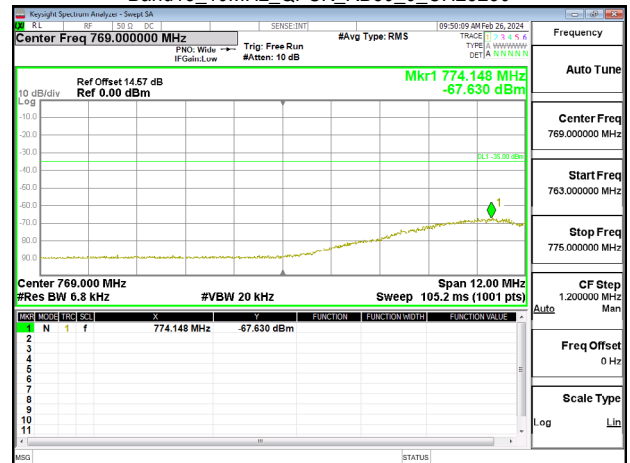
Band13_10MHz_QPSK_RB1_49_CH23230



Band Edge_Band13_10MHz_QPSK_RB50_0_CH23230



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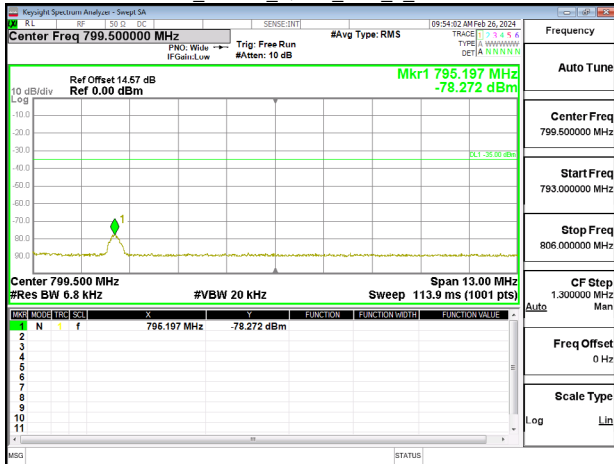


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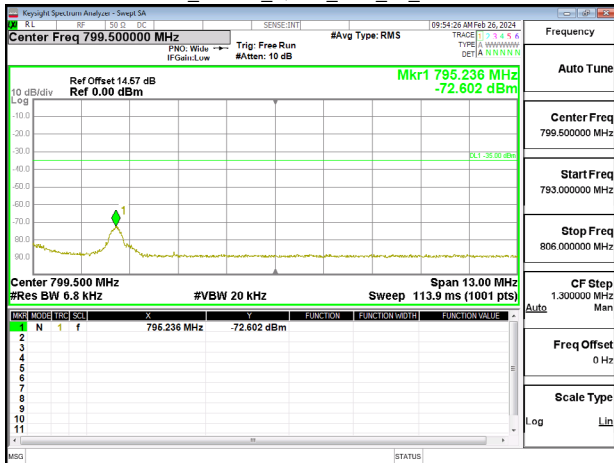
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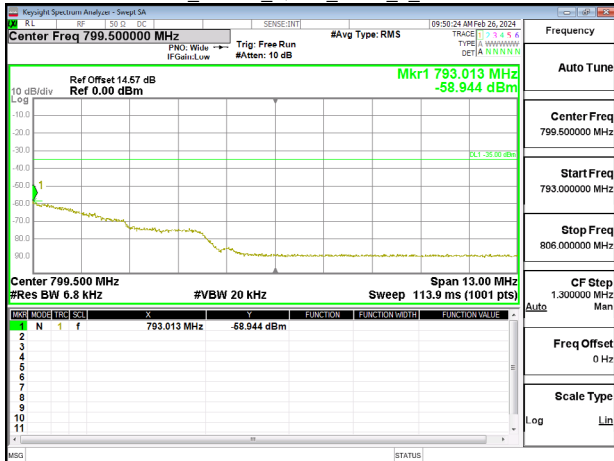
Band13_10MHz_QPSK_RB1_0_CH23230



Band13_10MHz_QPSK_RB1_49_CH23230



Band13_10MHz_QPSK_RB50_0_CH23230



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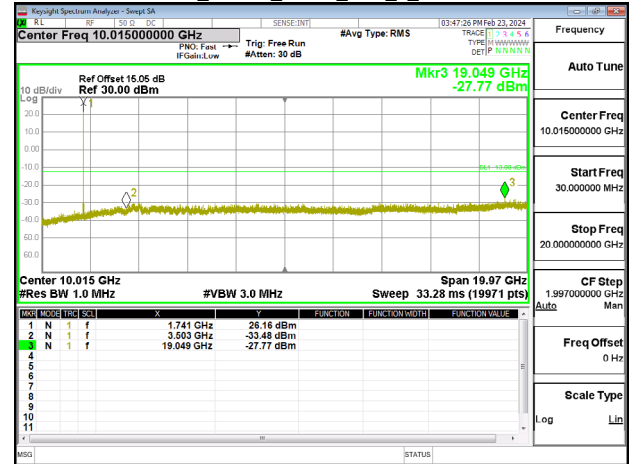
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4 SPURIOUS EMISSION AT ANTENNA TERMINALS:

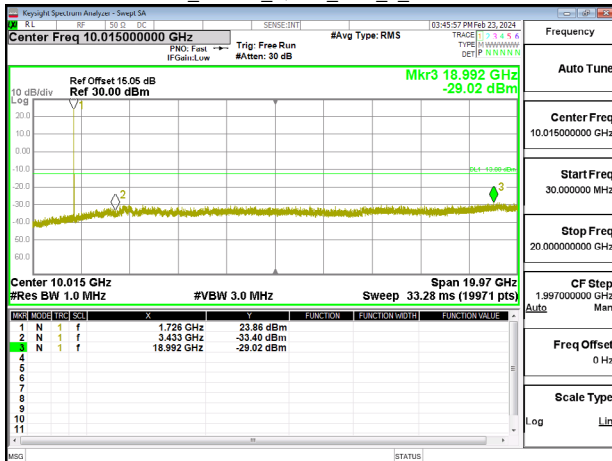
Band4_15MHz_QPSK_RB1_0_CH20025



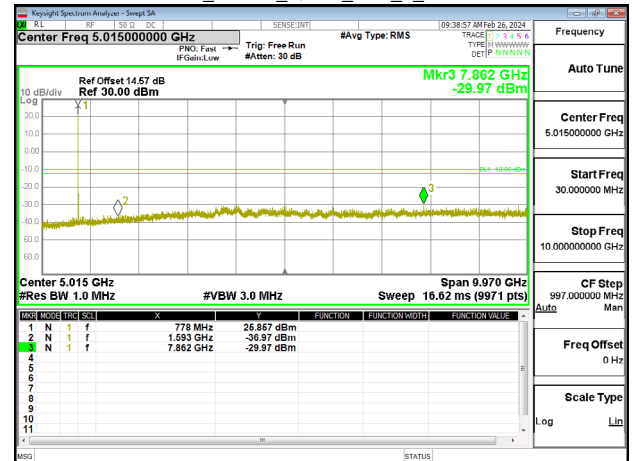
Band4_15MHz_QPSK_RB1_0_CH20325



Band4_15MHz_QPSK_RB1_0_CH20175



Band13_10MHz_QPSK_RB1_0_CH23230



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5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Report Number :TERF2402000334ER

Operation Mode :LTE B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1717.5 MHz

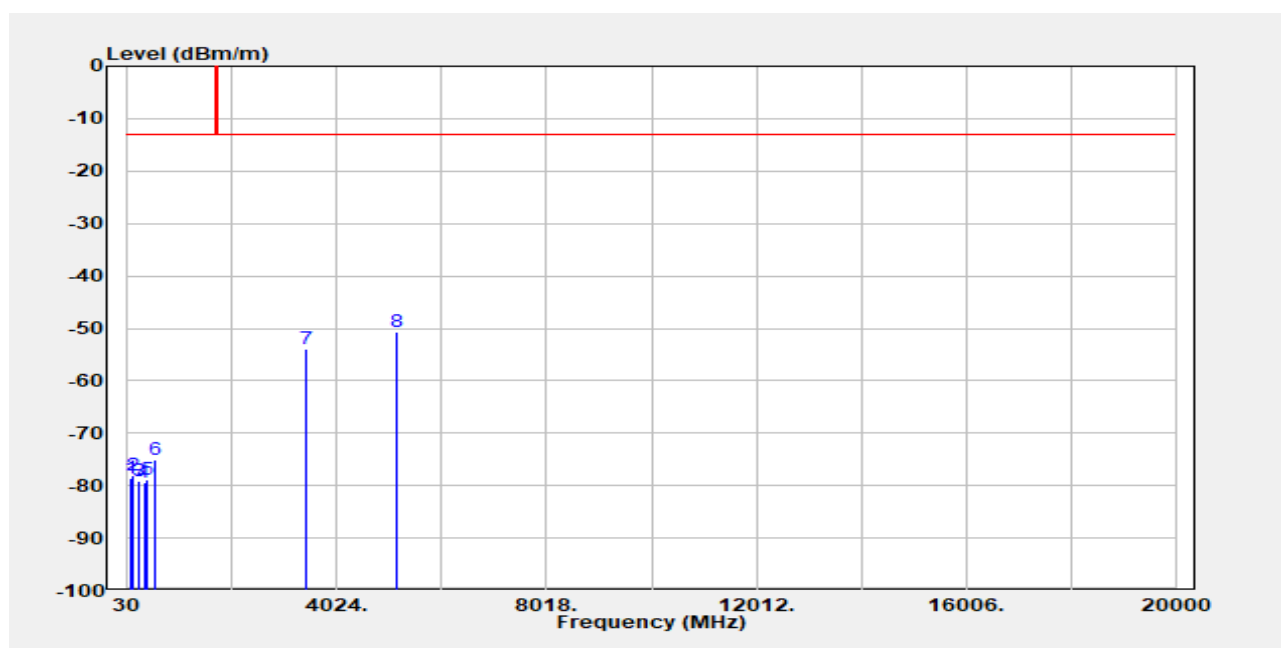
Test Site :SAC 1

Test Date :2024-02-19

Temp./Humi. :26°C/56%

Antenna Pol. :Vertical

Engineer :Cooper Hsu



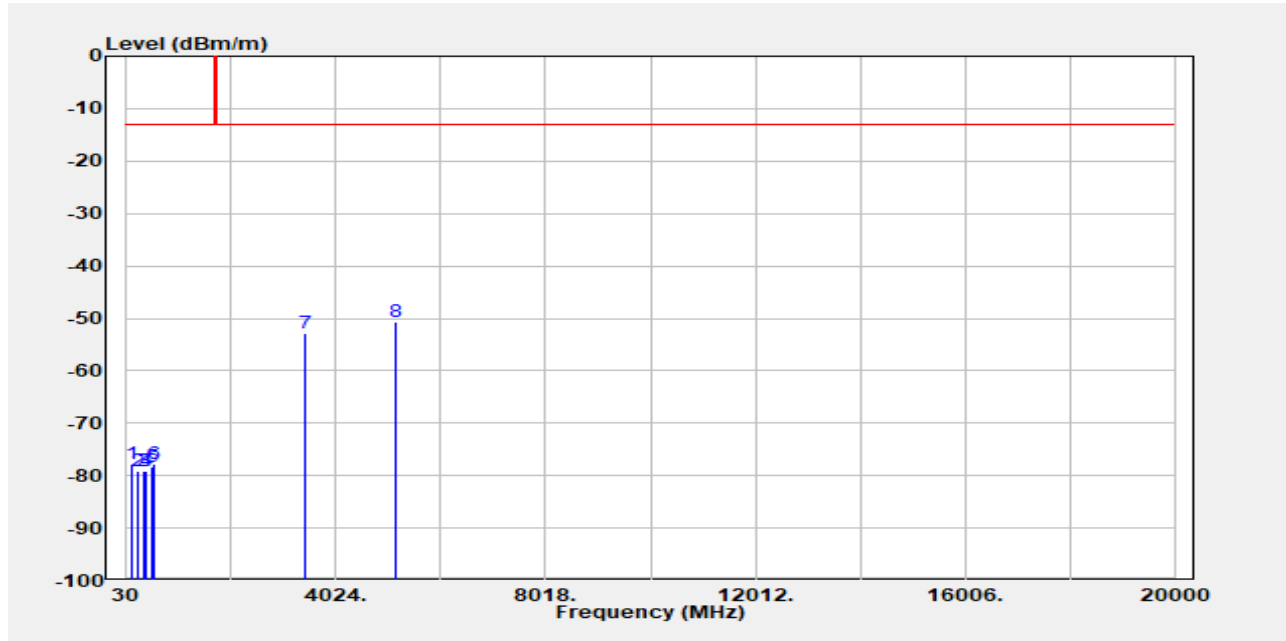
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	-78.57	-76.38	-1.07	-1.12	-13.00	-65.57
140.58	-77.95	-75.02	-1.62	-1.31	-13.00	-64.95
242.43	-79.09	-81.55	4.17	-1.71	-13.00	-66.09
342.34	-79.40	-81.95	4.57	-2.02	-13.00	-66.40
410.24	-78.96	-80.89	4.14	-2.21	-13.00	-65.96
548.95	-75.01	-76.87	4.42	-2.56	-13.00	-62.01
3435.00	-54.01	-60.13	12.53	-6.40	-13.00	-41.01
5152.50	-50.69	-55.15	12.42	-7.96	-13.00	-37.69

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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1717.5 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



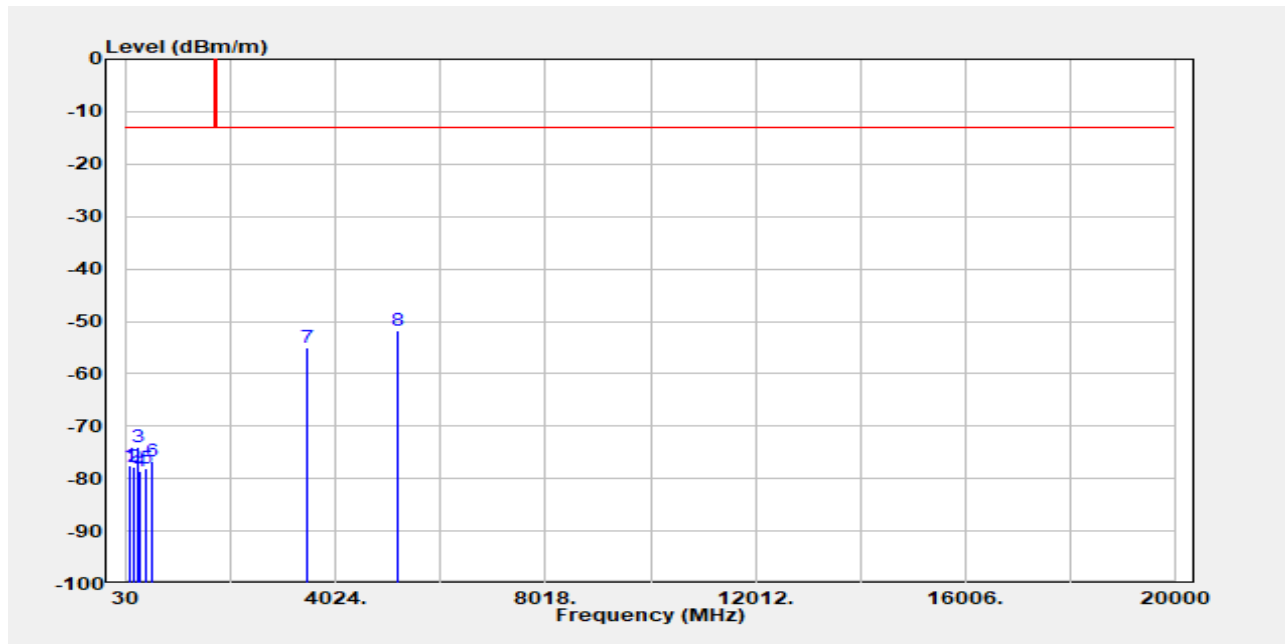
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
125.06	-77.75	-75.24	-1.28	-1.23	-13.00	-64.75
247.28	-79.25	-81.52	4.00	-1.73	-13.00	-66.25
377.26	-79.03	-81.13	4.22	-2.12	-13.00	-66.03
414.12	-79.00	-80.84	4.06	-2.22	-13.00	-66.00
502.39	-78.24	-80.00	4.21	-2.45	-13.00	-65.24
550.89	-77.66	-79.38	4.29	-2.56	-13.00	-64.66
3435.00	-52.97	-59.10	12.53	-6.40	-13.00	-39.97
5152.50	-50.70	-55.16	12.42	-7.96	-13.00	-37.70

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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.5 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



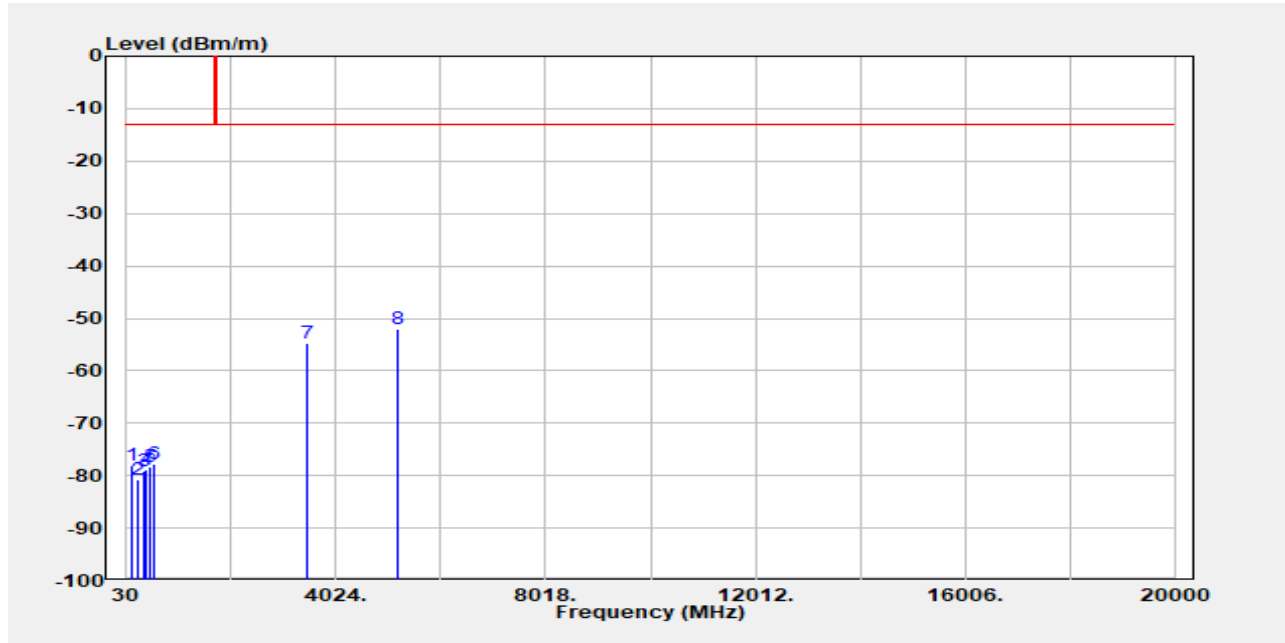
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
96.93	-77.53	-75.34	-1.07	-1.12	-13.00	-64.53
157.07	-77.66	-75.08	-1.20	-1.39	-13.00	-64.66
247.28	-74.03	-76.54	4.24	-1.73	-13.00	-61.03
296.75	-78.54	-80.95	4.29	-1.88	-13.00	-65.54
407.33	-77.98	-79.97	4.19	-2.20	-13.00	-64.98
514.03	-76.79	-78.72	4.40	-2.47	-13.00	-63.79
3465.00	-55.01	-61.02	12.44	-6.44	-13.00	-42.01
5197.50	-51.69	-56.39	12.69	-7.98	-13.00	-38.69

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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.5 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
125.06	-78.03	-75.52	-1.28	-1.23	-13.00	-65.03
244.37	-80.83	-83.07	3.96	-1.73	-13.00	-67.83
361.74	-79.01	-81.51	4.58	-2.08	-13.00	-66.01
412.18	-78.78	-80.66	4.10	-2.21	-13.00	-65.78
491.72	-78.33	-80.01	4.11	-2.42	-13.00	-65.33
542.16	-77.65	-79.34	4.22	-2.53	-13.00	-64.65
3465.00	-54.67	-60.67	12.44	-6.44	-13.00	-41.67
5197.50	-52.09	-56.79	12.69	-7.98	-13.00	-39.09

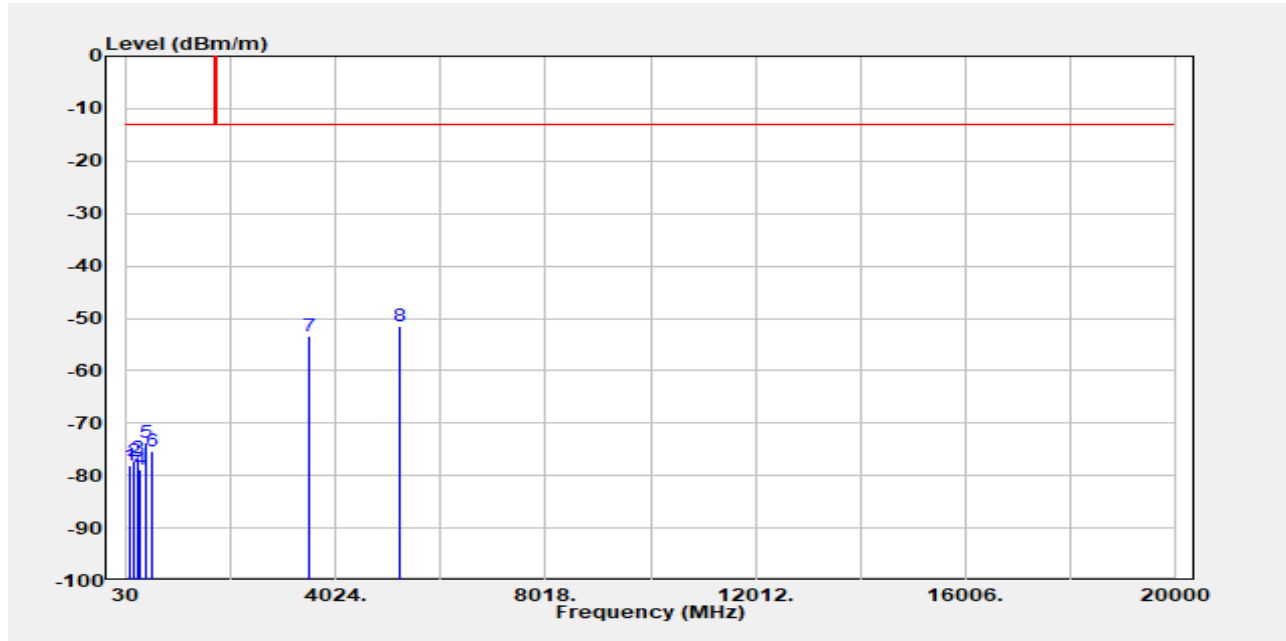
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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1747.5 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



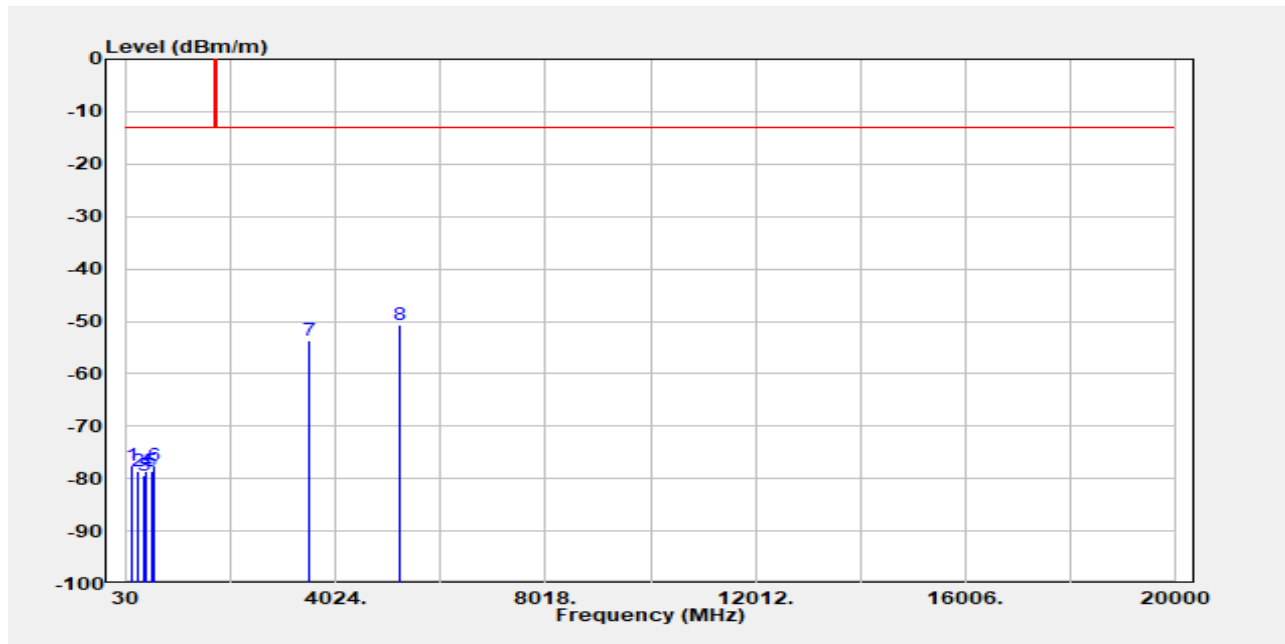
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
95.96	-78.17	-76.10	-0.96	-1.11	-13.00	-65.17
155.13	-77.13	-74.37	-1.39	-1.37	-13.00	-64.13
247.28	-76.68	-79.19	4.24	-1.73	-13.00	-63.68
296.75	-78.84	-81.25	4.29	-1.88	-13.00	-65.84
394.72	-73.75	-75.79	4.21	-2.17	-13.00	-60.75
520.82	-75.37	-77.26	4.38	-2.49	-13.00	-62.37
3495.00	-53.29	-59.14	12.32	-6.47	-13.00	-40.29
5242.50	-51.38	-56.42	13.04	-8.00	-13.00	-38.38

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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1747.5 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



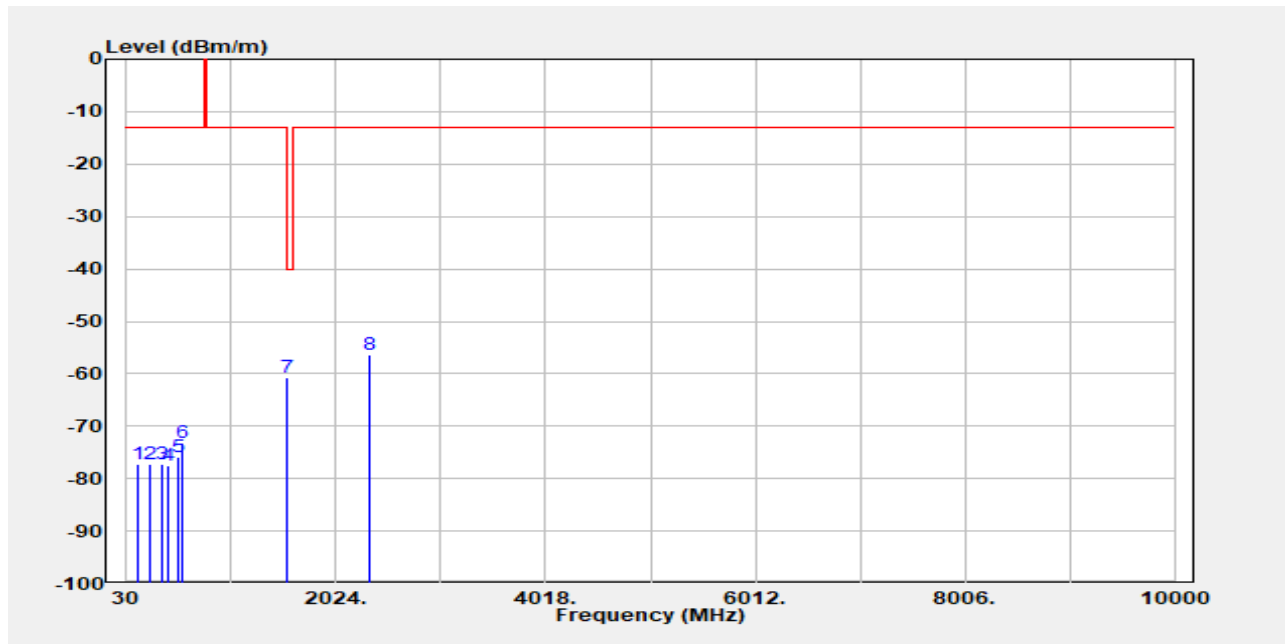
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-77.54	-75.33	-0.98	-1.23	-13.00	-64.54
247.28	-78.51	-80.77	4.00	-1.73	-13.00	-65.51
354.95	-79.43	-81.85	4.48	-2.06	-13.00	-66.43
413.15	-78.72	-80.58	4.08	-2.22	-13.00	-65.72
494.63	-78.47	-80.21	4.16	-2.43	-13.00	-65.47
564.47	-77.43	-79.06	4.22	-2.59	-13.00	-64.43
3495.00	-53.63	-59.49	12.32	-6.47	-13.00	-40.63
5242.50	-50.65	-55.70	13.04	-8.00	-13.00	-37.65

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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



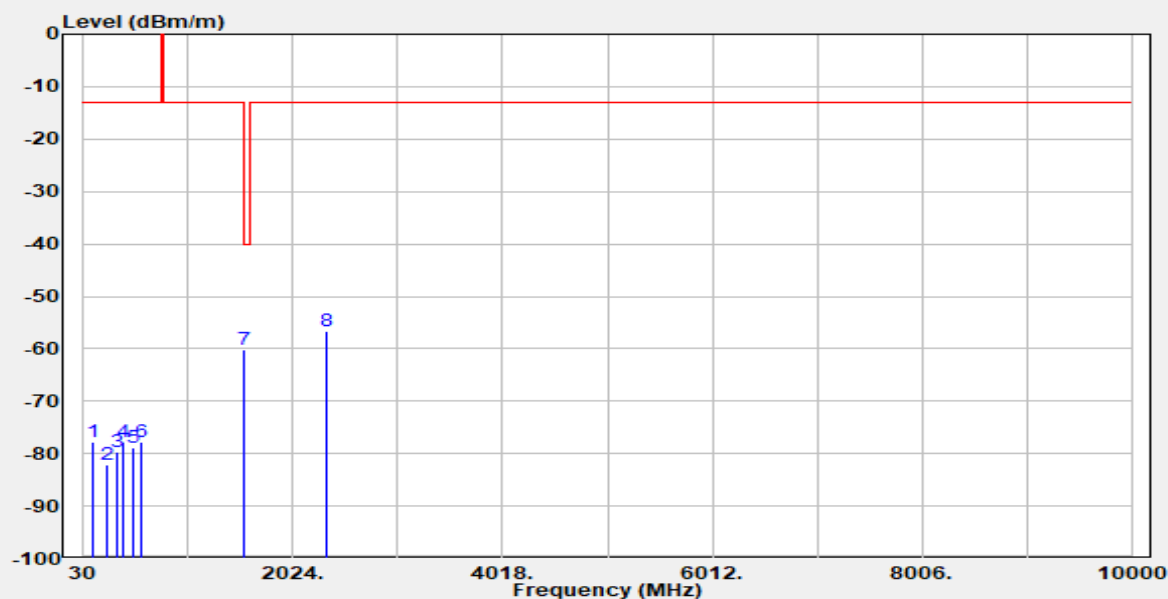
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
137.67	-77.22	-74.31	-1.61	-1.30	-13.00	-64.22
247.28	-77.37	-79.88	4.24	-1.73	-13.00	-64.37
365.62	-77.32	-79.82	4.61	-2.11	-13.00	-64.32
431.58	-77.47	-79.32	4.12	-2.27	-13.00	-64.47
513.06	-75.77	-77.69	4.39	-2.47	-13.00	-62.77
559.62	-73.09	-74.76	4.24	-2.58	-13.00	-60.09
1564.00	-60.67	-65.55	9.10	-4.22	-40.00	-20.67
2346.00	-56.41	-60.97	9.80	-5.24	-13.00	-43.41

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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
124.09	-77.90	-75.69	-0.98	-1.23	-13.00	-64.90
247.28	-81.98	-84.25	4.00	-1.73	-13.00	-68.98
355.92	-79.57	-82.01	4.50	-2.06	-13.00	-66.57
412.18	-77.80	-79.68	4.10	-2.21	-13.00	-64.80
495.60	-78.75	-80.49	4.18	-2.43	-13.00	-65.75
570.29	-77.67	-79.06	3.99	-2.60	-13.00	-64.67
1564.00	-60.28	-65.16	9.10	-4.22	-40.00	-20.28
2346.00	-56.62	-61.18	9.80	-5.24	-13.00	-43.62

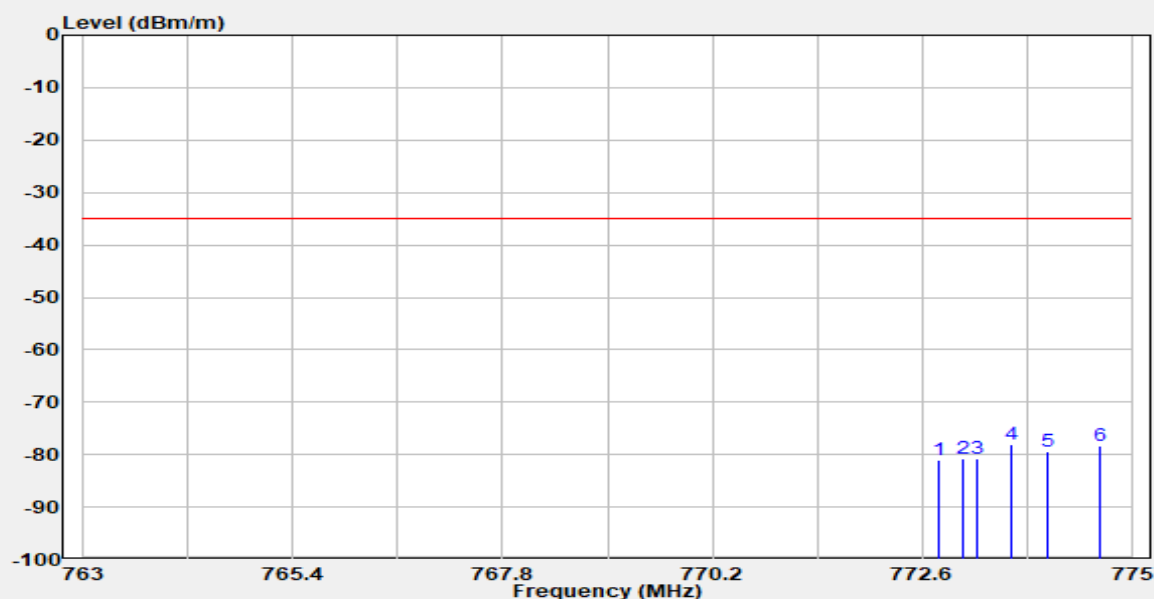
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LTE B13 763-775

Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



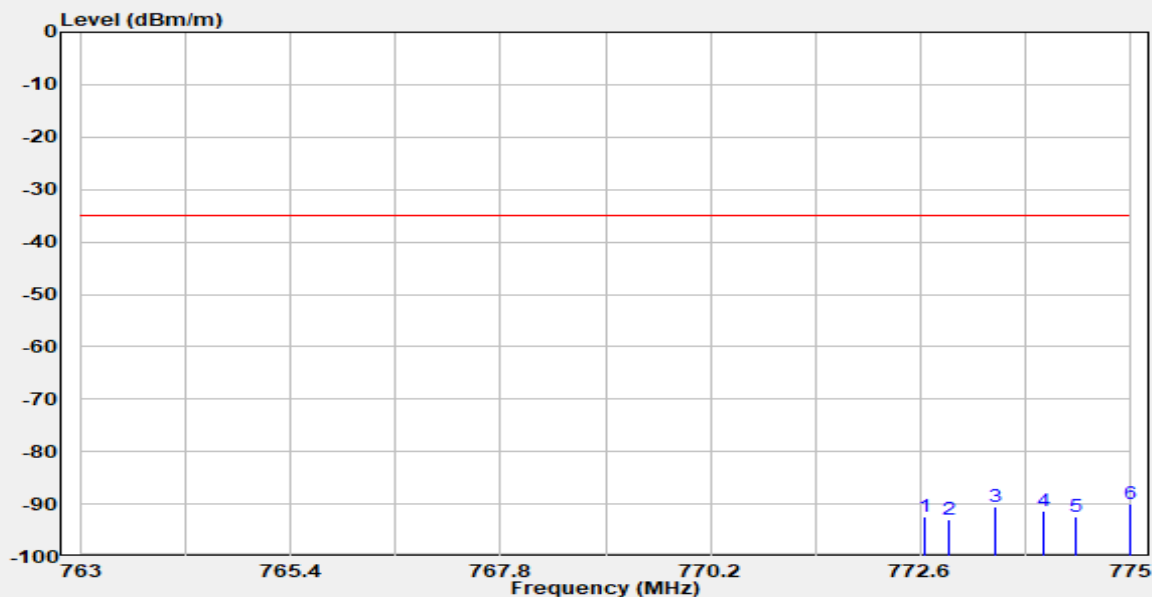
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
772.79	-81.08	-81.55	3.49	-3.02	-35.00	-46.08
773.08	-80.70	-81.17	3.49	-3.02	-35.00	-45.70
773.24	-80.64	-81.10	3.48	-3.02	-35.00	-45.64
773.62	-78.05	-78.51	3.48	-3.02	-35.00	-43.05
774.04	-79.35	-79.81	3.48	-3.02	-35.00	-44.35
774.64	-78.22	-78.67	3.47	-3.02	-35.00	-43.22

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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
772.66	-92.35	-92.68	3.34	-3.02	-35.00	-57.35
772.92	-92.95	-93.28	3.35	-3.02	-35.00	-57.95
773.46	-90.53	-90.87	3.35	-3.02	-35.00	-55.53
774.03	-91.19	-91.53	3.36	-3.02	-35.00	-56.19
774.38	-92.52	-92.87	3.36	-3.02	-35.00	-57.52
775.00	-90.09	-90.44	3.37	-3.02	-35.00	-55.09

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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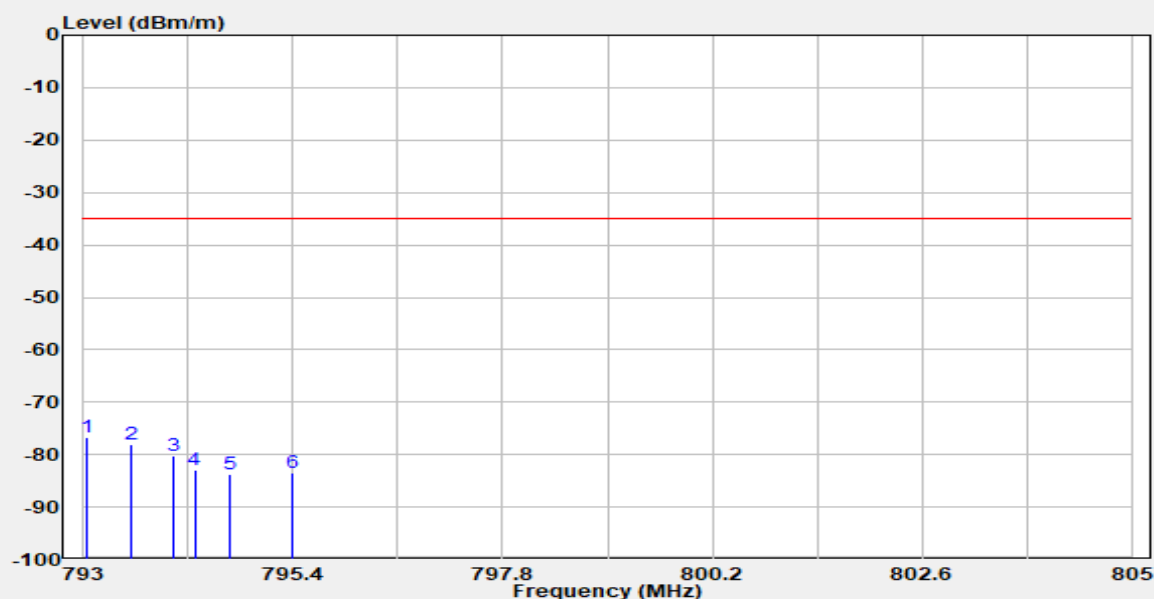
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Member of SGS Group

LTE B13 793-805

Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
793.04	-76.71	-77.53	3.87	-3.05	-35.00	-41.71
793.55	-78.03	-78.85	3.87	-3.05	-35.00	-43.03
794.02	-80.11	-80.94	3.88	-3.06	-35.00	-45.11
794.27	-82.80	-83.62	3.88	-3.06	-35.00	-47.80
794.68	-83.82	-84.65	3.89	-3.06	-35.00	-48.82
795.40	-83.53	-84.37	3.89	-3.06	-35.00	-48.53

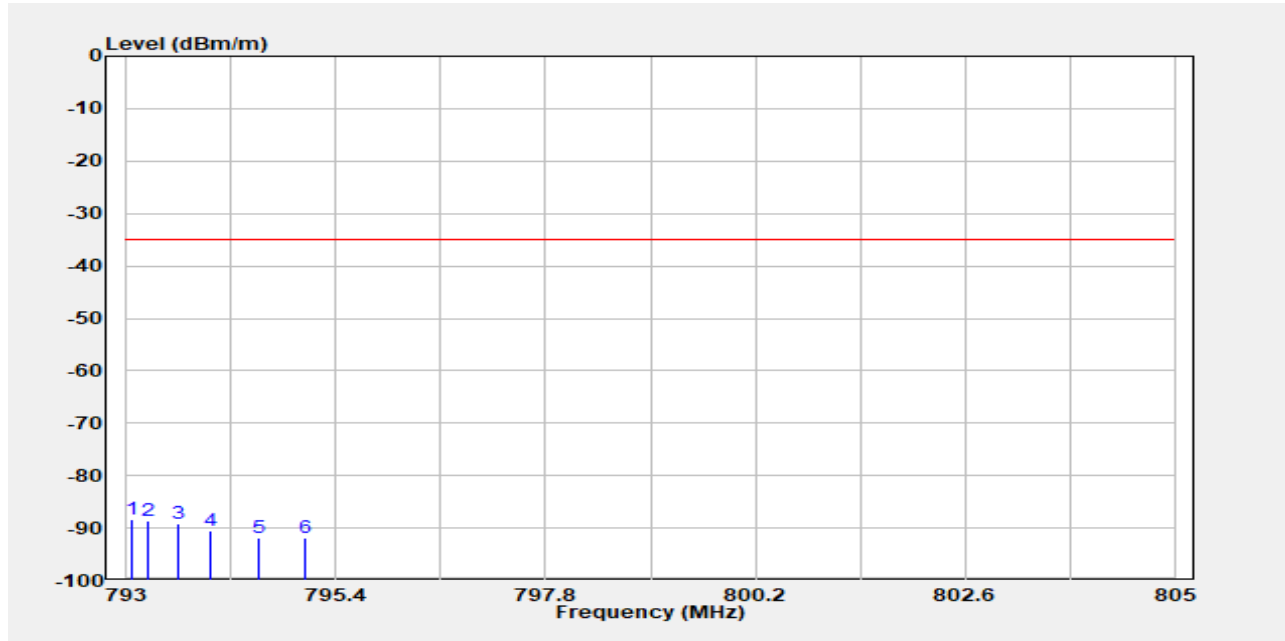
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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-02-19
Temp./Humi. :26°C/56%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
793.06	-88.29	-88.70	3.47	-3.05	-35.00	-53.29
793.24	-88.67	-89.08	3.47	-3.05	-35.00	-53.67
793.59	-89.07	-89.49	3.47	-3.05	-35.00	-54.07
793.96	-90.65	-91.07	3.48	-3.06	-35.00	-55.65
794.51	-91.95	-92.38	3.48	-3.06	-35.00	-56.95
795.05	-91.99	-92.42	3.49	-3.06	-35.00	-56.99

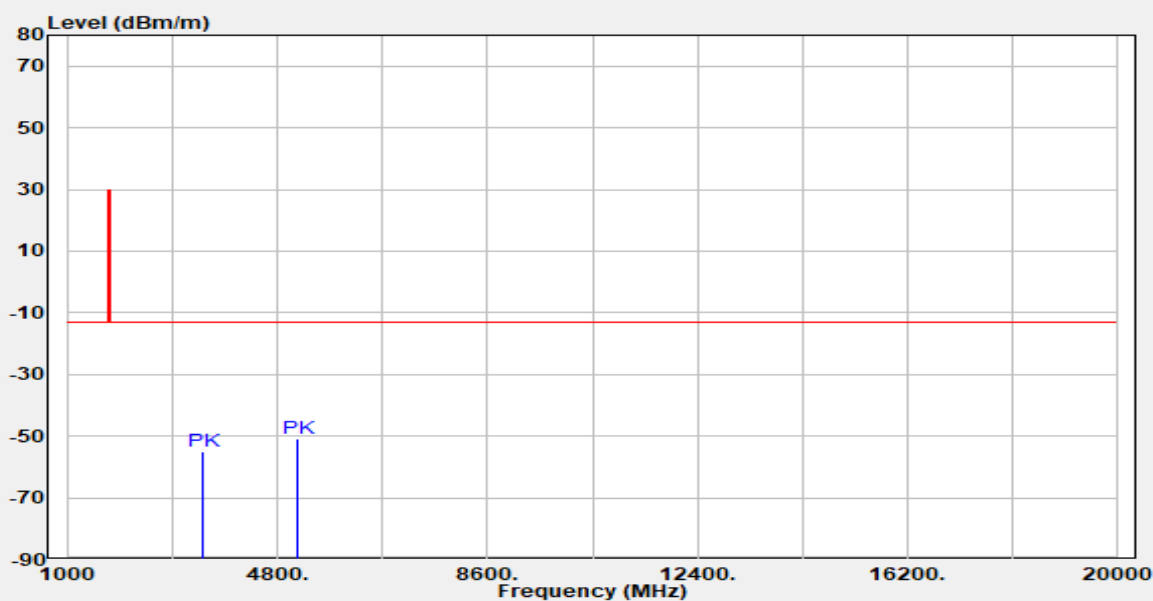
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2nd Source

Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1717.5 MHz

Test Site :SAC 1
Test Date :2024-03-12
Temp./Humi. :23.6°C/59%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



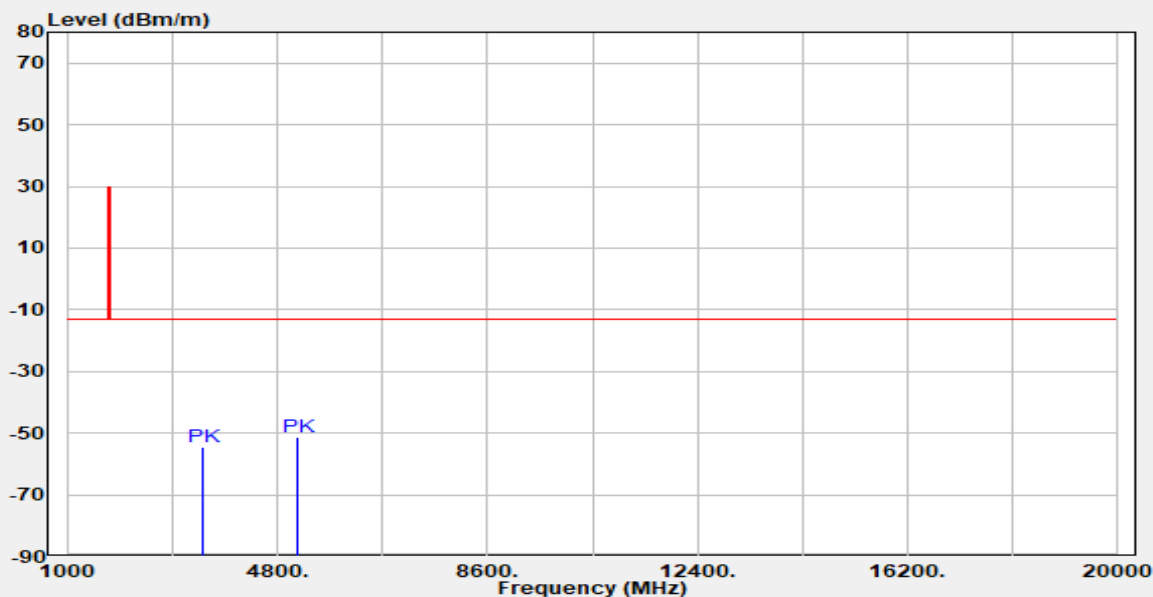
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
3435.00	-54.83	-60.96	12.53	-6.40	-13.00	-41.83
5152.50	-50.94	-55.39	12.42	-7.96	-13.00	-37.94

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Report Number :TERF2402000334ER
Operation Mode :LTE B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1717.5 MHz

Test Site :SAC 1
Test Date :2024-03-12
Temp./Humi. :23.6°C/59%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
3435.00	-54.42	-60.55	12.53	-6.40	-13.00	-41.42
5152.50	-51.45	-55.91	12.42	-7.96	-13.00	-38.45

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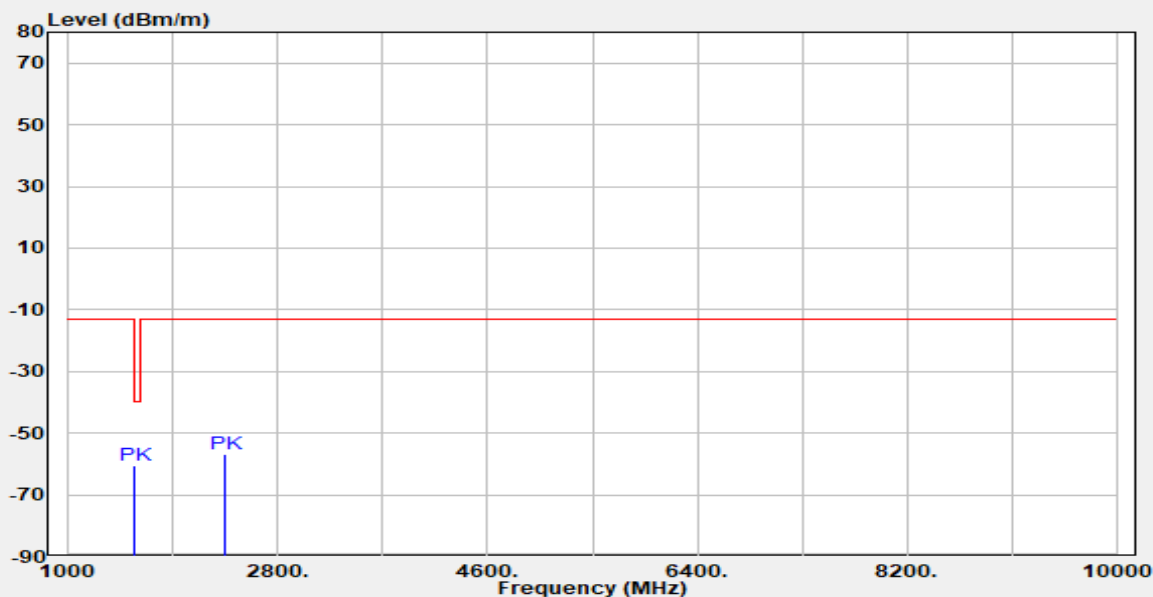
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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-03-12
Temp./Humi. :23.6°C/59%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
1564.00	-60.41	-65.30	9.10	-4.22	-40.00	-20.41
2346.00	-56.94	-61.50	9.80	-5.24	-13.00	-43.94

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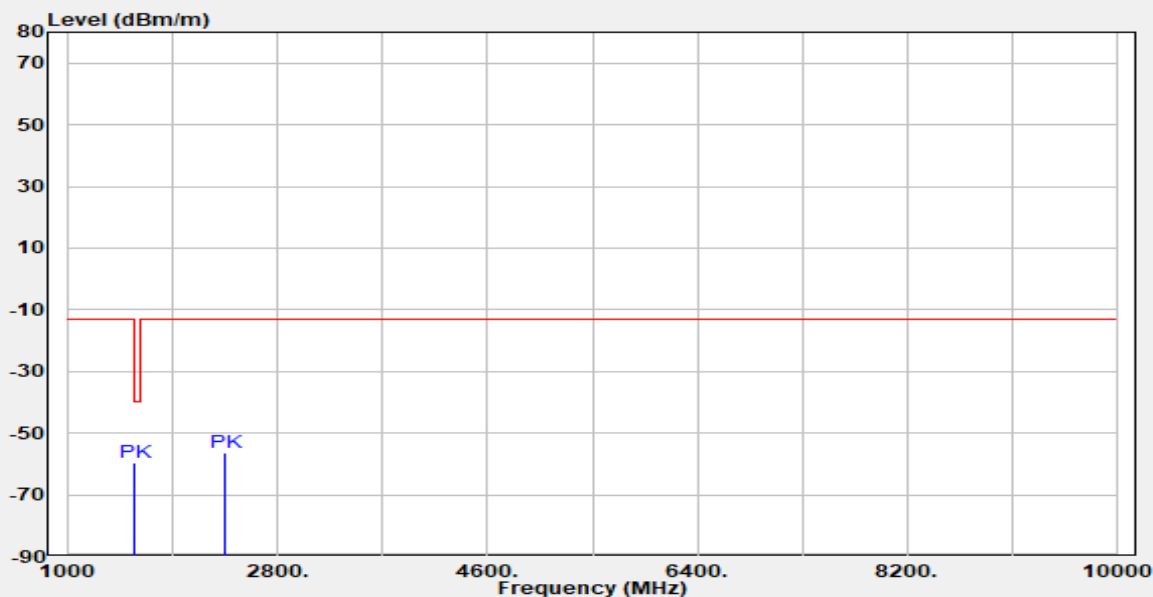
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Report Number :TERF2402000334ER
Operation Mode :LTE B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 1
Test Date :2024-03-12
Temp./Humi. :23.6°C/59%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
1564.00	-59.49	-64.37	9.10	-4.22	-40.00	-19.49
2346.00	-56.42	-60.98	9.80	-5.24	-13.00	-43.42

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6 FREQUENCY STABILITY MEASUREMENT

Note: The battery is rated 3.87V dc.

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						
4.4505	25	1732.499997	-0.0018	+/- 2.5 ppm		
3.87	25	1732.500003	0.0016			
3.2895	25	1732.499996	-0.0021			
3.1 (End Point)	25	1732.500006	0.0033			
Freq. ERROR vs. Temp.						
3.87	-30	1732.500001	0.0006	+/- 2.5 ppm		
3.87	-20	1732.499999	-0.0005			
3.87	-10	1732.500000	0.0001			
3.87	0	1732.500000	-0.0001			
3.87	10	1732.499994	-0.0032			
3.87	20	1732.500000	-0.0002			
3.87	30	1732.499997	-0.0016			
3.87	40	1732.500001	0.0008			
3.87	50	1732.499997	-0.0020			

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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					
4.4505	25	782.000002	0.0026	+/- 2.5 ppm	
3.87	25	782.000002	0.0027		
3.2895	25	781.999999	-0.0015		
3.1 (End Point)	25	781.999999	-0.0014		
Freq. ERROR vs. Temp.					
3.87	-30	782.000003	0.0041	+/- 2.5 ppm	
3.87	-20	782.000009	0.0116		
3.87	-10	782.000003	0.0035		
3.87	0	782.000000	-0.0001		
3.87	10	782.000002	0.0024		
3.87	20	782.000002	0.0027		
3.87	30	781.999997	-0.0036		
3.87	40	781.999996	-0.0046		
3.87	50	781.999998	-0.0029		

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7 PEAK TO AVERAGE RATIO

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	4.64	13	1711.5	19965	5.13	13
1732.5	20175	4.74	13	1732.5	20175	5.02	13
1754.3	20393	4.67	13	1753.5	20385	5.08	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19975	4.84	13	1715.0	20000	4.97	13
1732.5	20175	4.95	13	1732.5	20175	5.14	13
1752.5	20375	4.93	13	1750.0	20350	4.96	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	5.71	13	1720.0	20050	6.45	13
1732.5	20175	5.59	13	1732.5	20175	6.56	13
1747.5	20325	5.42	13	1745.0	20300	6.58	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	5.51	13	782.0	23230	5.79	13
782.0	23230	5.68	13				
784.5	23255	5.51	13				

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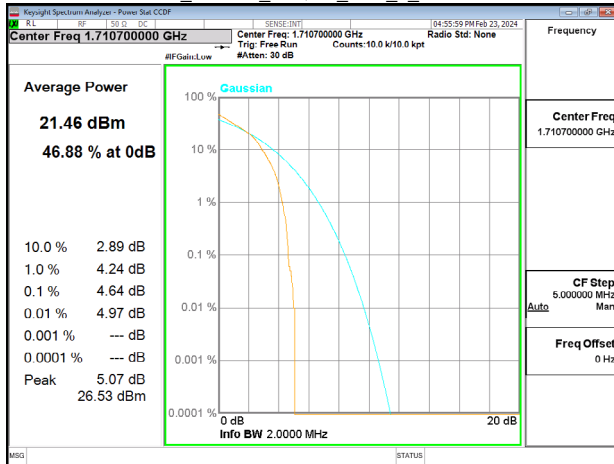
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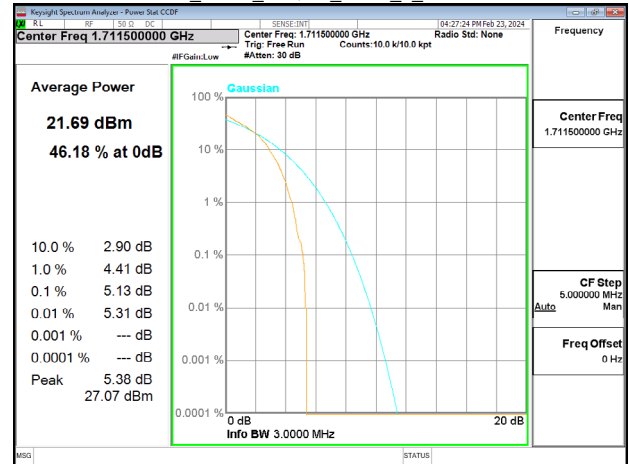
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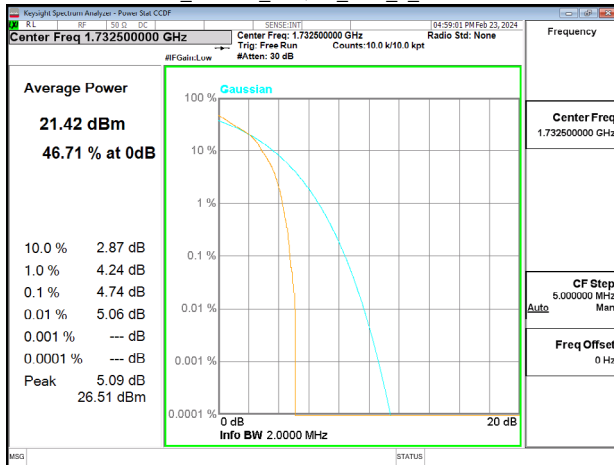
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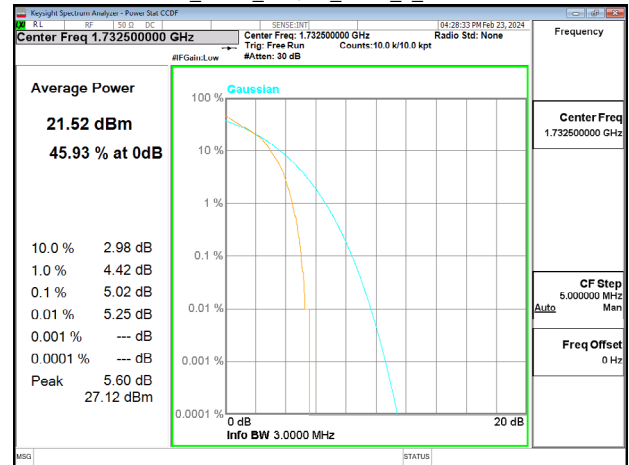
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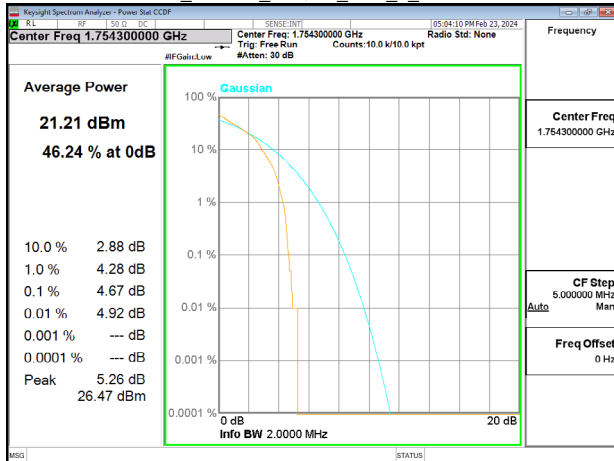
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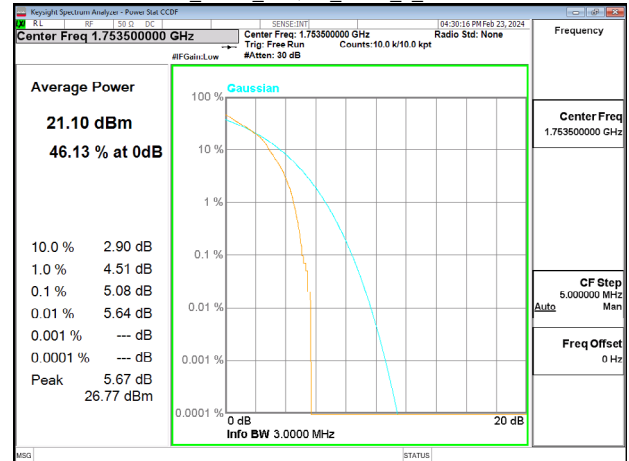
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Band4_1.4MHz_16QAM_RB6_0_CH20393



Band4_3MHz_16QAM_RB15_0_CH20385

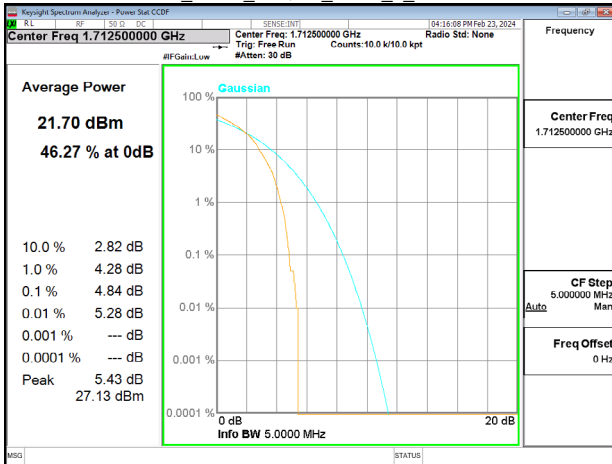


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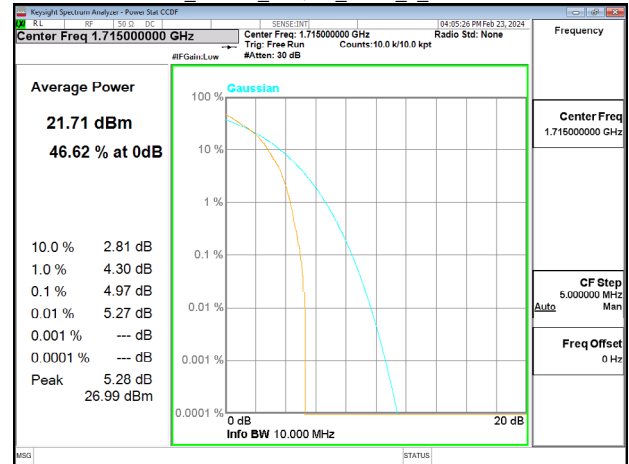
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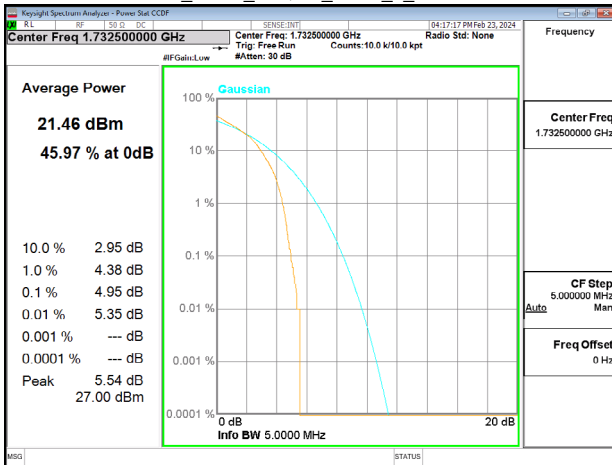
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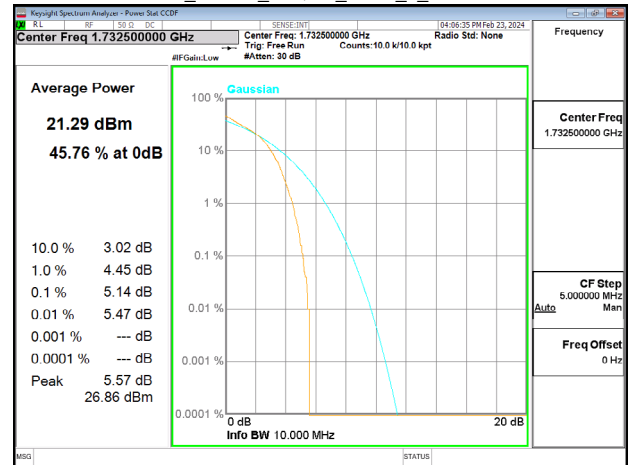
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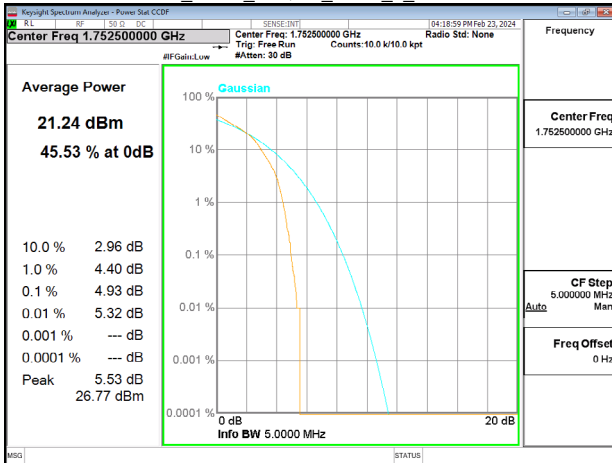
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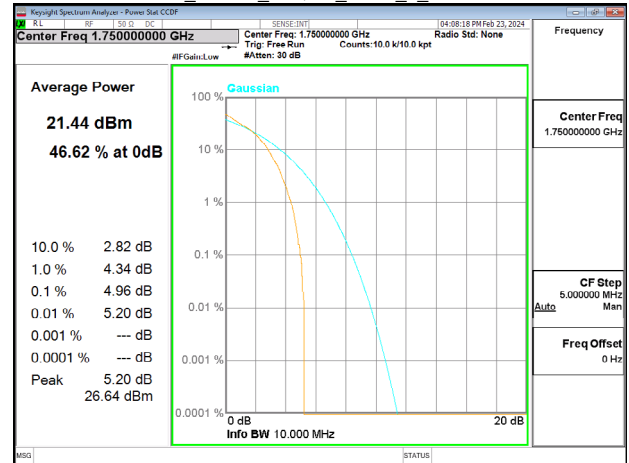
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Band4_5MHz_16QAM_RB25_0_CH20375



Band4_10MHz_16QAM_RB50_0_CH20350

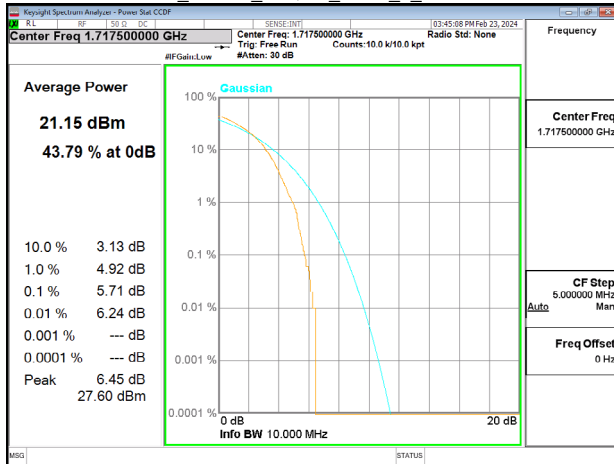


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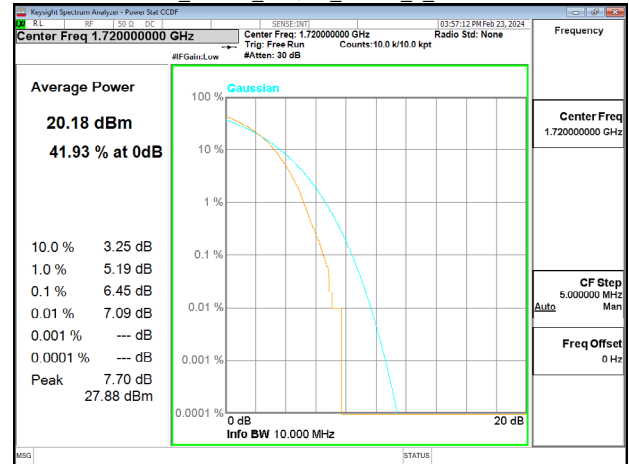
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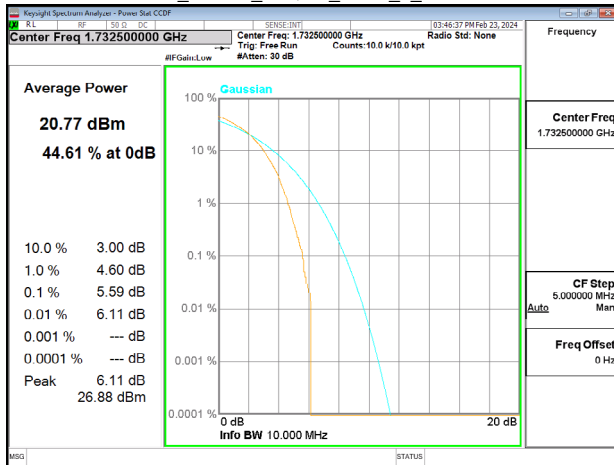
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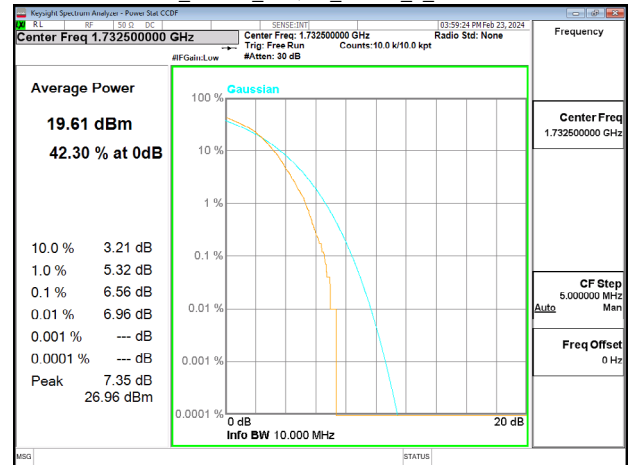
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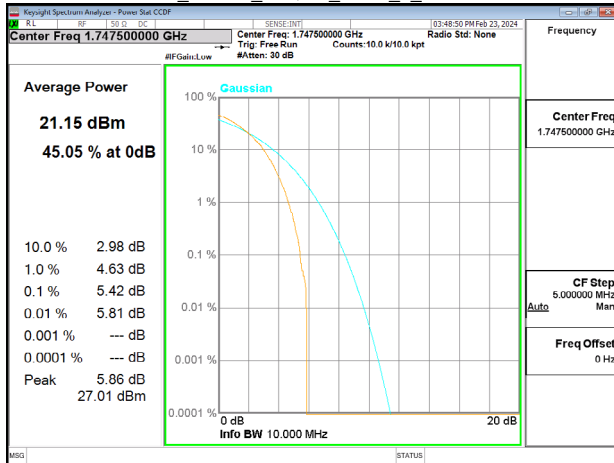
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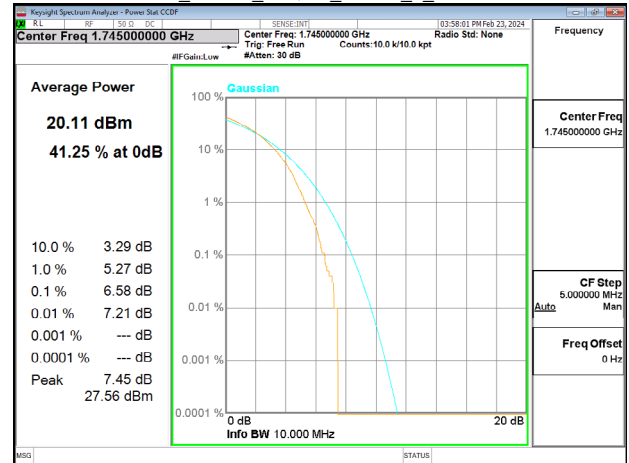
Band4 20MHz 16QAM_RB100_0_CH20175



Band4 15MHz 16QAM_RB75_0_CH20325



Band4 20MHz 16QAM_RB100_0_CH20300



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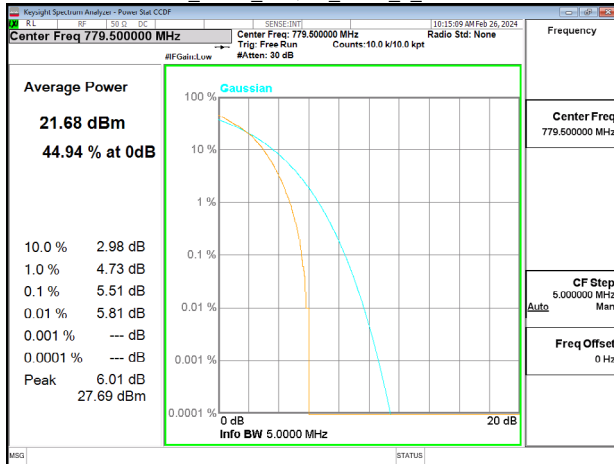
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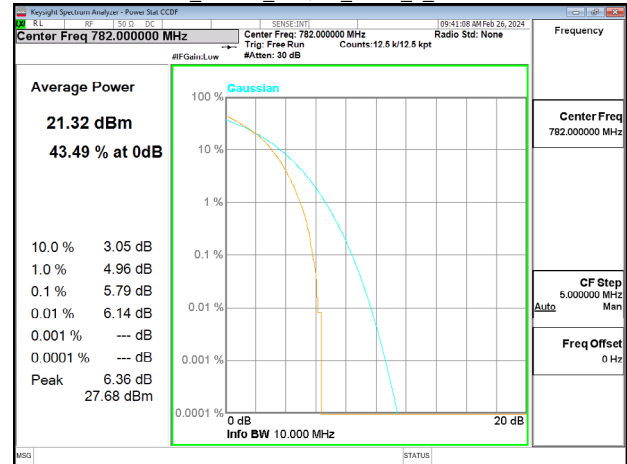
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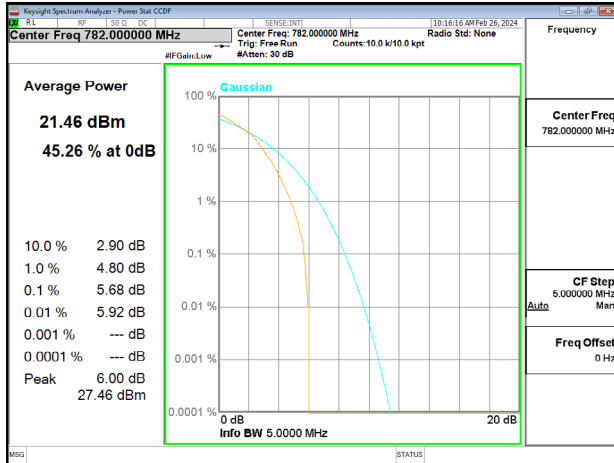
Band13_5MHz_16QAM_RB25_0_CH23205



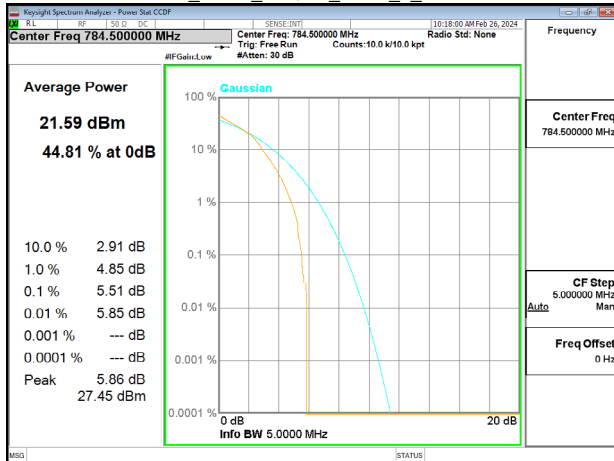
Band13_10MHz_16QAM_RB50_0_CH23230



Band13_5MHz_16QAM_RB25_0_CH23230



Band13_5MHz_16QAM_RB25_0_CH23255



~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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