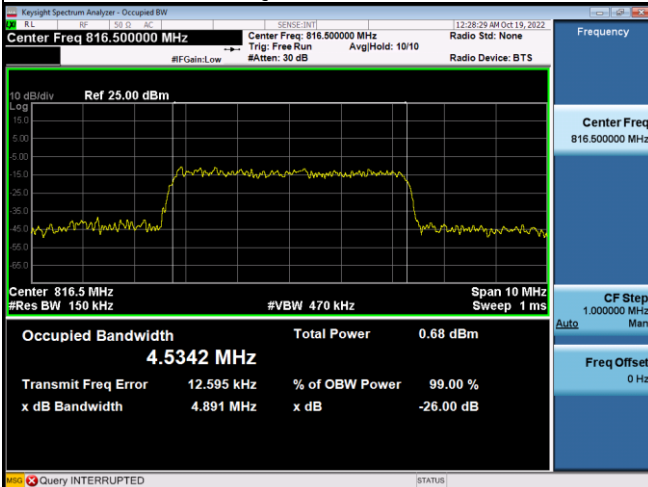


Spectrum Plot

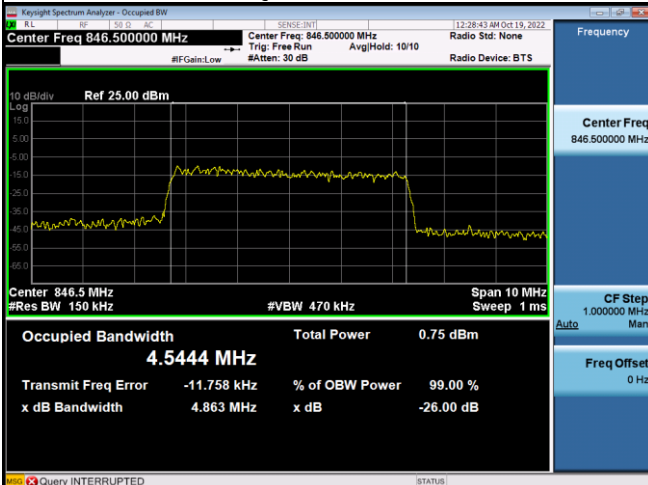
QPSK-26815



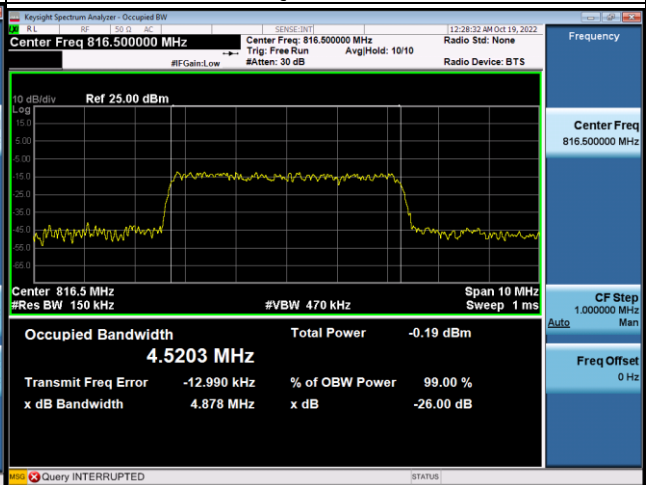
QPSK-26915



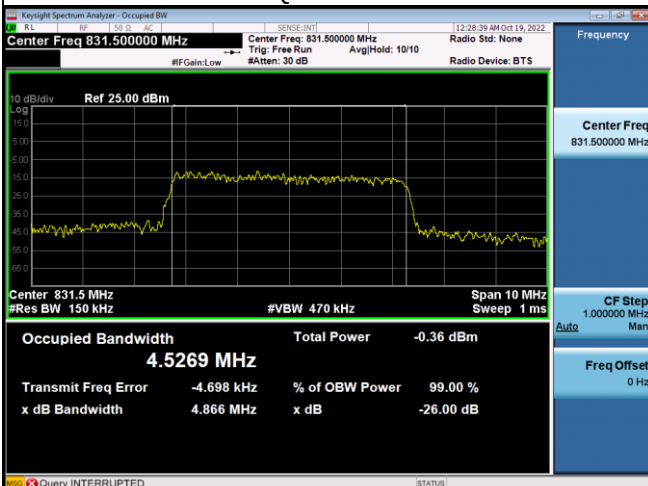
QPSK-27015



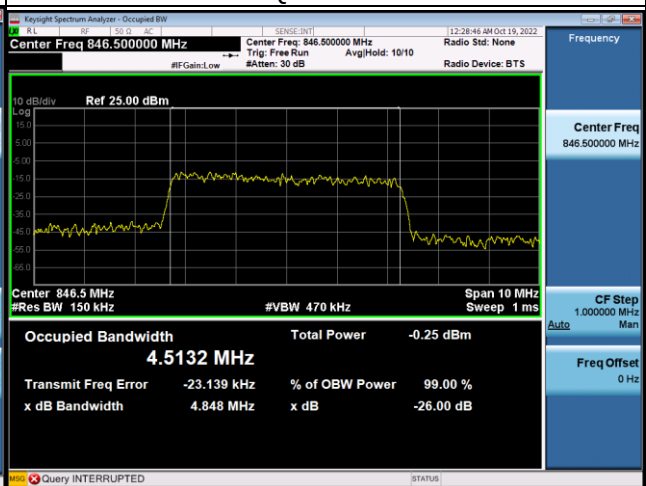
16QAM-26815



16QAM-26915

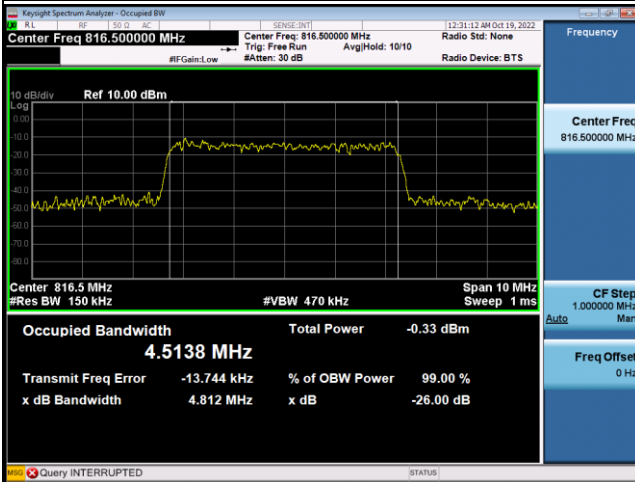


16QAM-27015

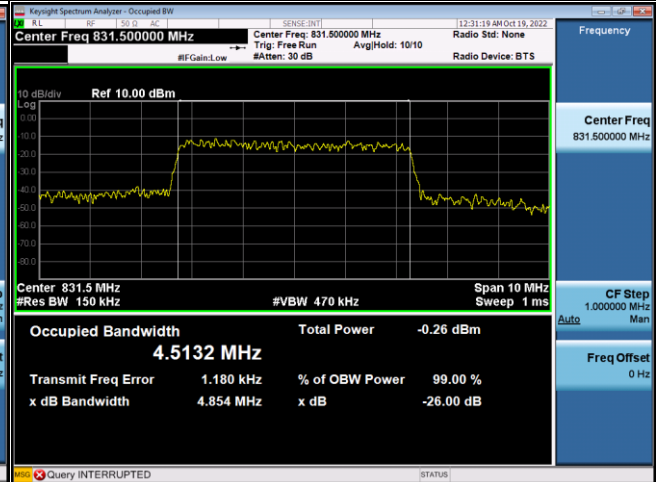


Spectrum Plot

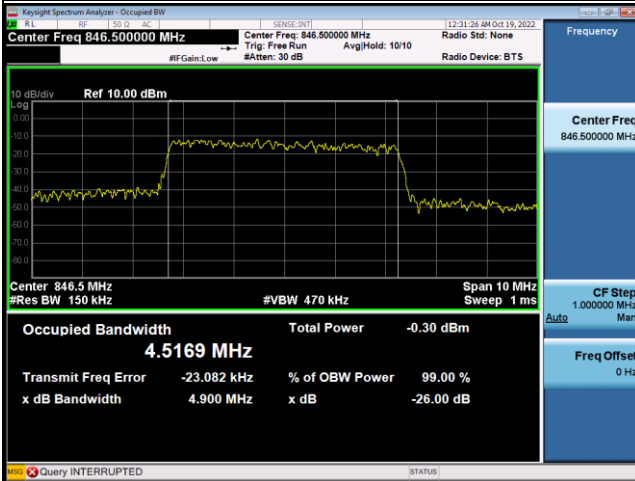
64QAM-26815



64QAM-26915



64QAM-27015

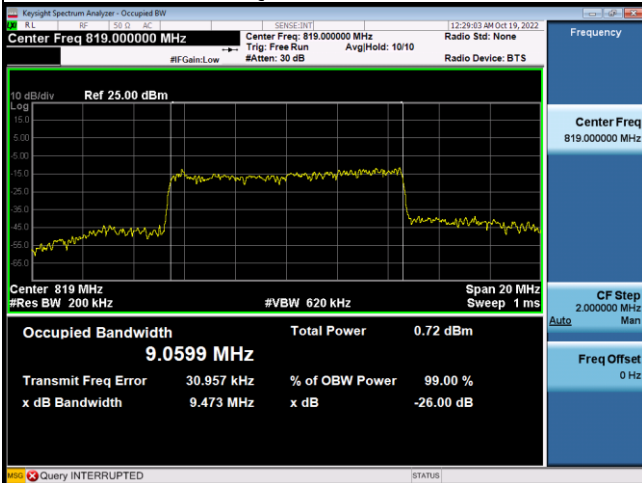


-

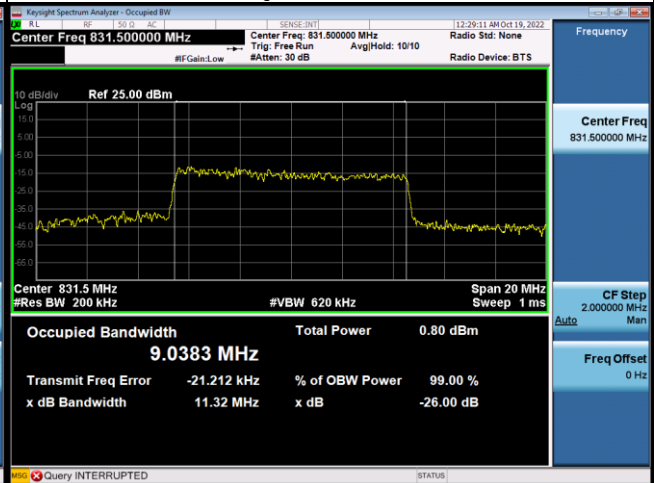
LTE Band 26_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0599	26840	829	9.473
26915	836.5	9.0383	26915	836.5	11.32
26990	844	8.8645	26990	844	9.428
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0149	26840	829	9.522
26915	836.5	8.9918	26915	836.5	10.94
26990	844	8.8535	26990	844	9.433
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0379	26840	829	9.510
26915	836.5	8.9975	26915	836.5	9.586
26990	844	8.9031	26990	844	9.435

Spectrum Plot

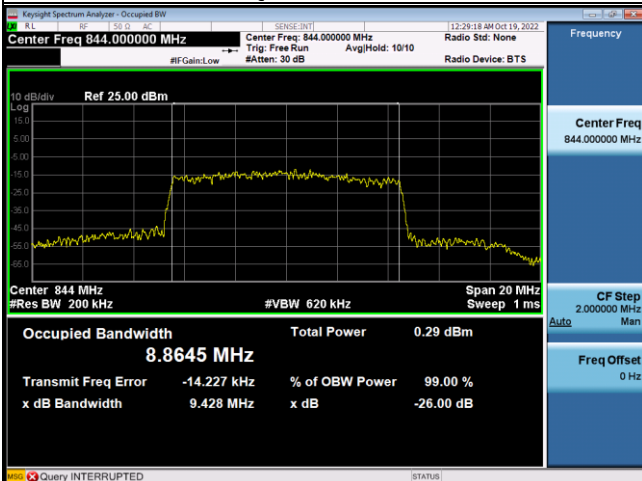
QPSK-26840



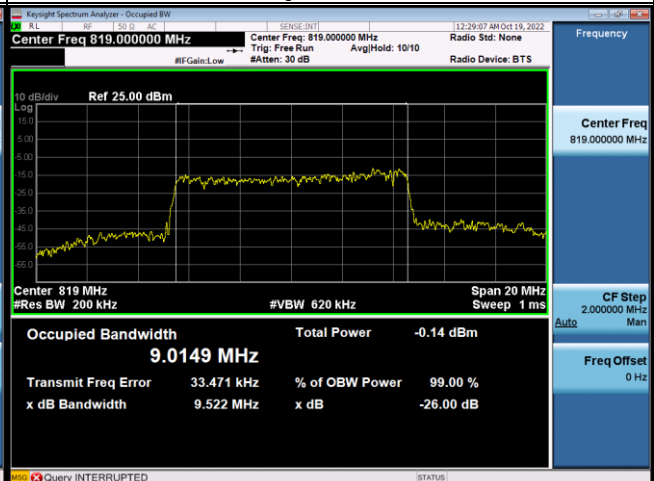
QPSK-26915



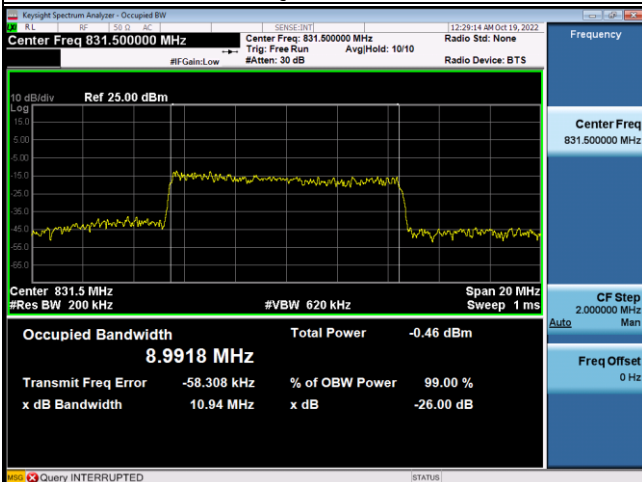
QPSK-26990



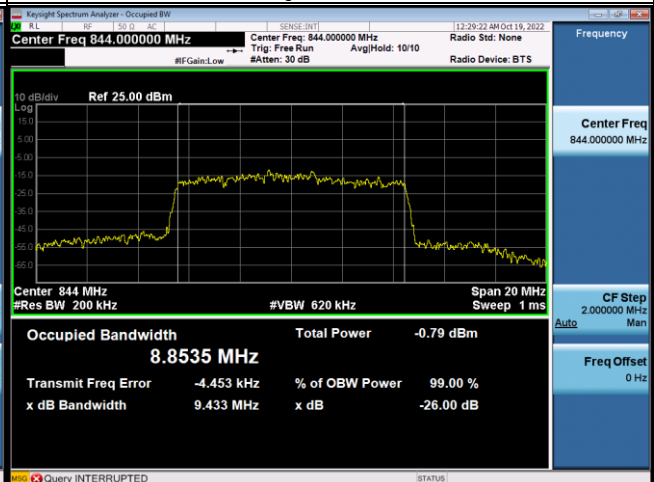
16QAM-26840



16QAM-26915

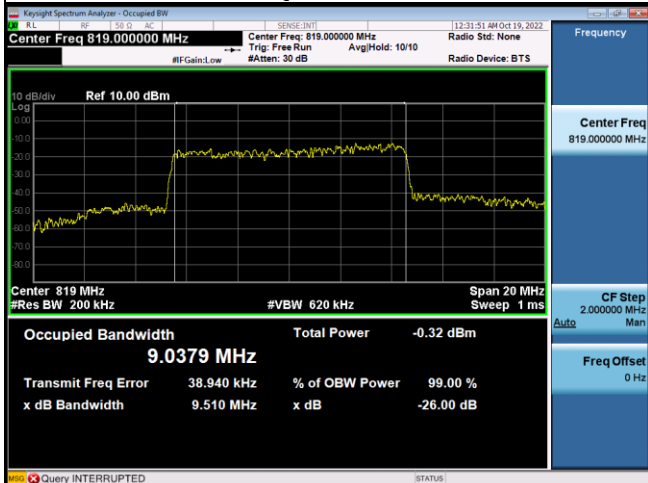


16QAM-26990

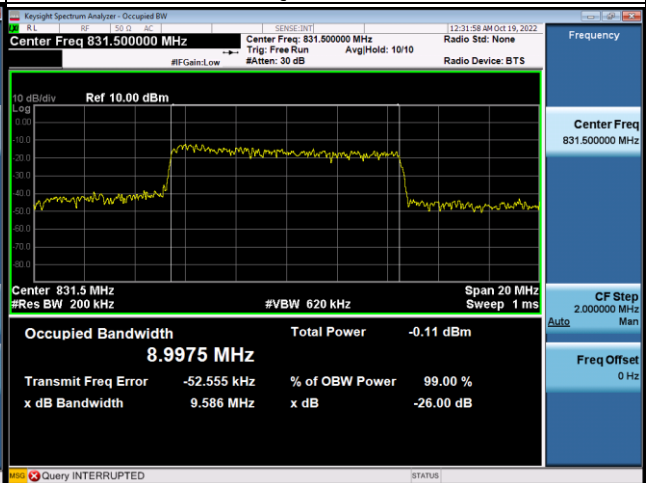


Spectrum Plot

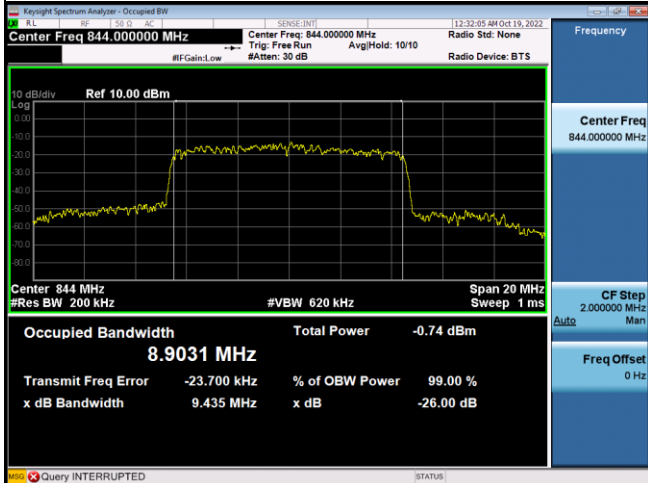
64QAM-26840



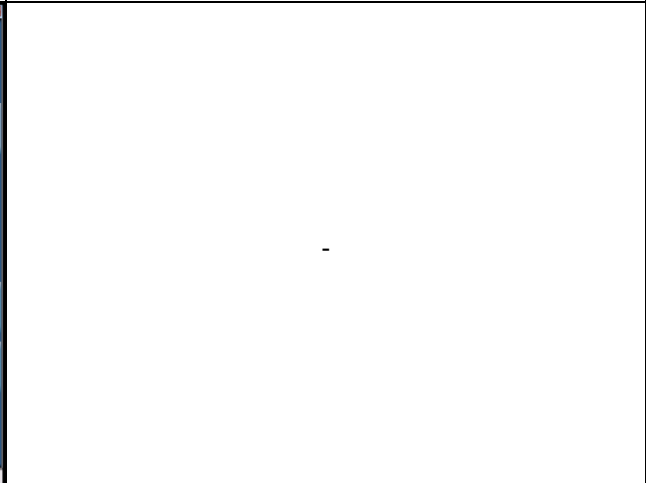
64QAM-26915



64QAM-26990



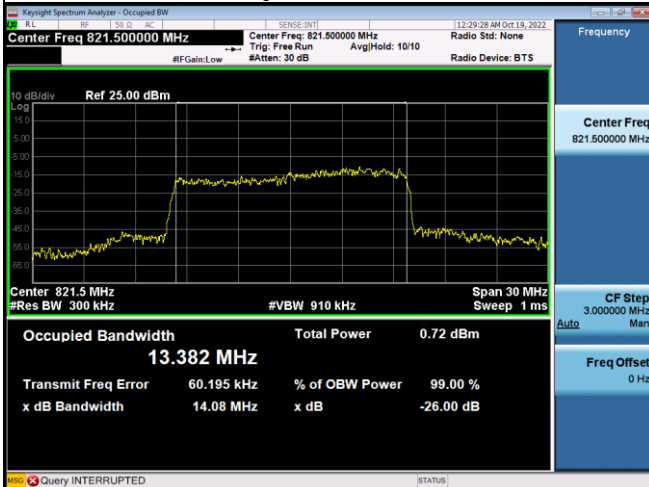
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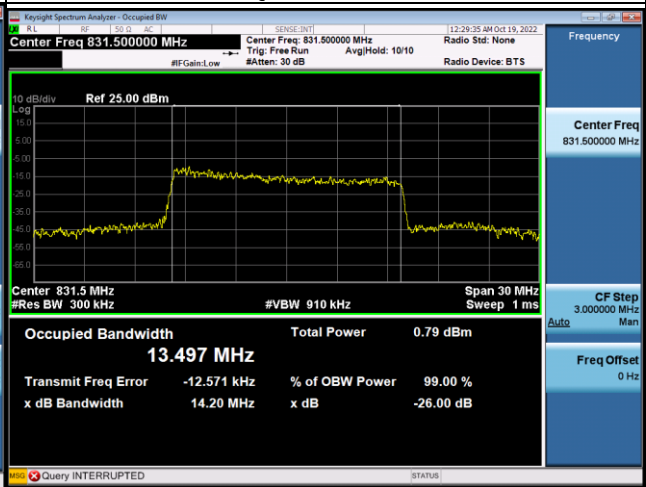
LTE Band 26_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.382	26865	831.5	14.08
26915	836.5	13.497	26915	836.5	14.20
26965	841.5	13.256	26965	841.5	14.09
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.406	26865	831.5	14.14
26915	836.5	13.548	26915	836.5	14.17
26965	841.5	13.282	26965	841.5	14.08
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.307	26865	831.5	14.14
26915	836.5	13.481	26915	836.5	14.13
26965	841.5	13.259	26965	841.5	14.08

Spectrum Plot

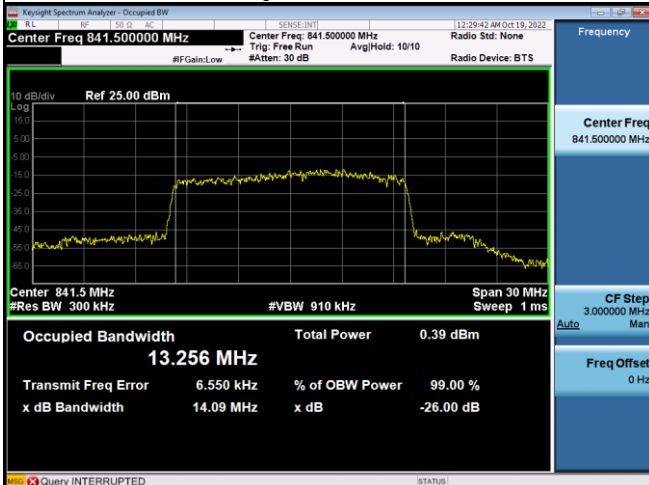
QPSK-26865



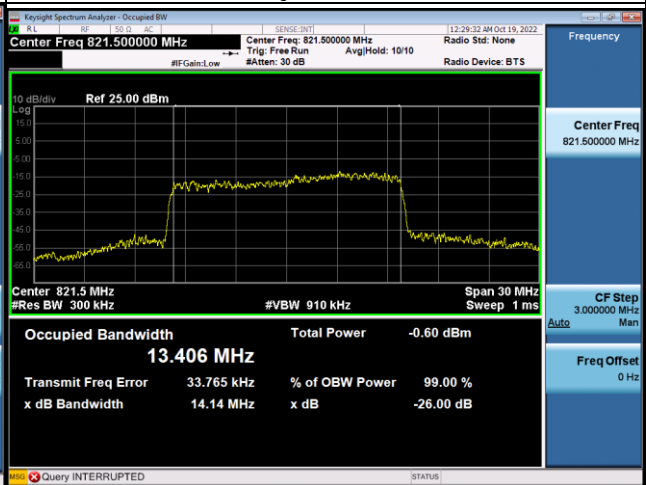
QPSK-26915



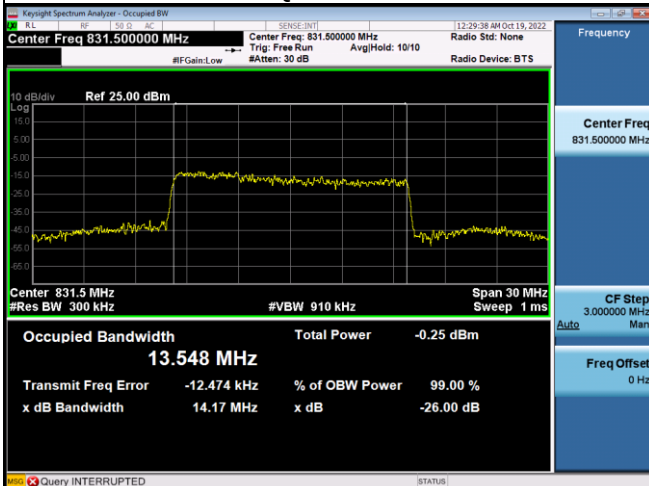
QPSK-26965



16QAM-26865



16QAM-26915

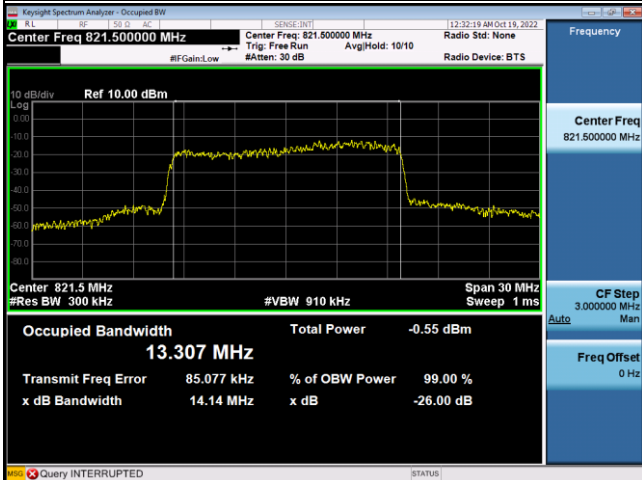


16QAM-26965

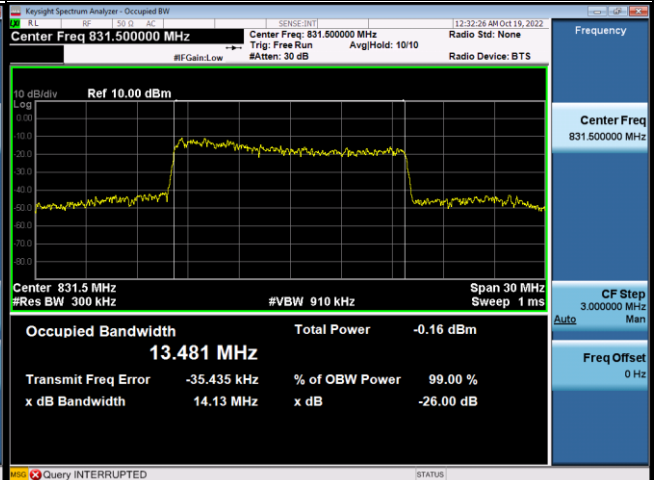


Spectrum Plot

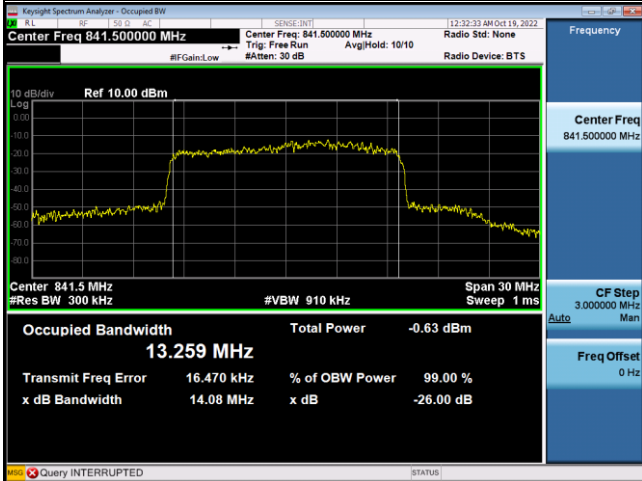
64QAM-26865



64QAM-26915



64QAM-26965



APPENDIX C CONDUCTED SPURIOUS EMISSION

GSM 850 Spectrum Plot			
GSM		GSM	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
KeySight Spectrum Analyzer - Sweep SA Start Freq 9.000 kHz Stop 150.00 kHz Mkr1 9.000 kHz -44.554 dBm Center Freq 79.500 kHz Start Freq 9.000 kHz Stop Freq 150.00 kHz CF Step 14.100 kHz Freq Offset 0 Hz Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 174.0 ms (1001 pts)		KeySight Spectrum Analyzer - Sweep SA Start Freq 150.000 kHz Stop 30.00 MHz Mkr1 150 kHz -51.509 dBm Center Freq 15.075000 MHz Start Freq 150.000 kHz Stop Freq 30.000000 MHz CF Step 2.985000 MHz Freq Offset 0 Hz Start 0.15 MHz #Res BW 10 kHz #VBW 30 kHz Sweep 368.3 ms (1001 pts)	
GSM		EDGE	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
KeySight Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz Stop 10.000 GHz Mkr1 5.28419 GHz -43.703 dBm Center Freq 5.015000000 GHz Start Freq 30.000000 MHz Stop Freq 10.00000000 GHz CF Step 997.000000 MHz Freq Offset 0 Hz Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 16.67 ms (1001 pts)		KeySight Spectrum Analyzer - Sweep SA Start Freq 9.000 kHz Stop 150.00 kHz Mkr1 9.564 kHz -45.11 dBm Center Freq 79.500 kHz Start Freq 9.000 kHz Stop Freq 150.00 kHz CF Step 14.100 kHz Freq Offset 0 Hz Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 174.0 ms (1001 pts)	
EDGE		EDGE	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
KeySight Spectrum Analyzer - Sweep SA Start Freq 150.000 kHz Stop 30.00 MHz Mkr1 150 kHz -52.54 dBm Center Freq 15.075000 MHz Start Freq 150.000 kHz Stop Freq 30.000000 MHz CF Step 2.985000 MHz Freq Offset 0 Hz Start 0.15 MHz #Res BW 10 kHz #VBW 30 kHz Sweep 368.3 ms (1001 pts)		KeySight Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz Stop 10.000 GHz Mkr1 3.62917 GHz -43.629 dBm Center Freq 5.015000000 GHz Start Freq 30.000000 MHz Stop Freq 10.00000000 GHz CF Step 997.000000 MHz Freq Offset 0 Hz Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 16.67 ms (1001 pts)	

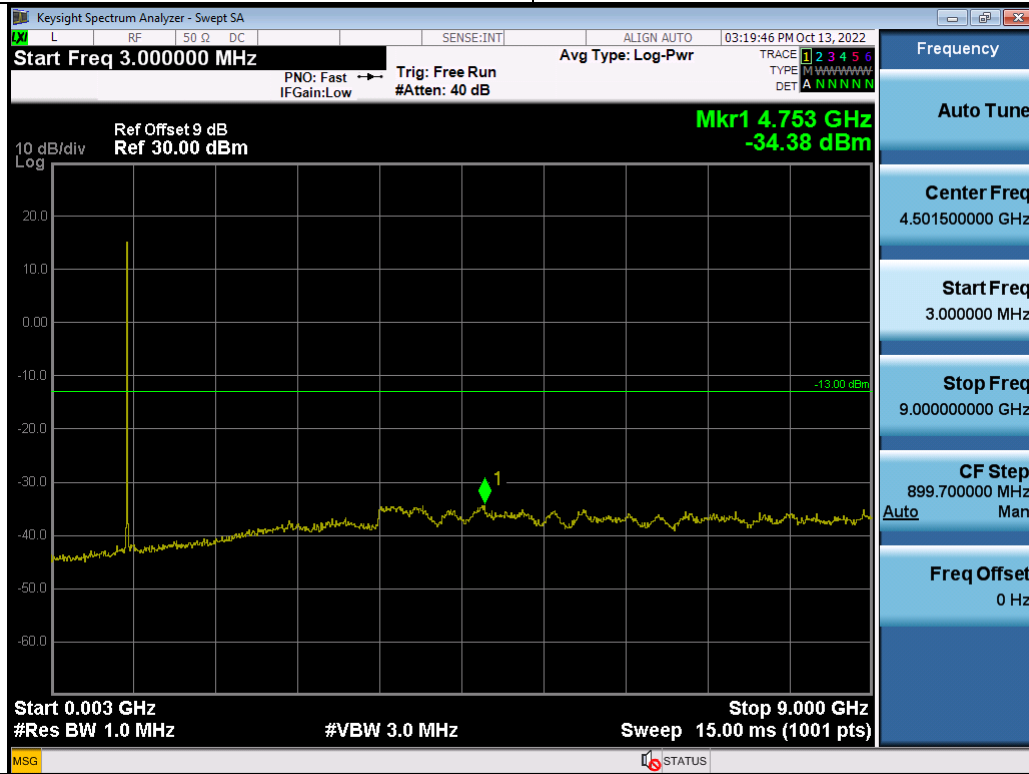
WCDMA Band V_WCDMA Spectrum Plot

Channel

4183

Frequency (MHz)

836.6



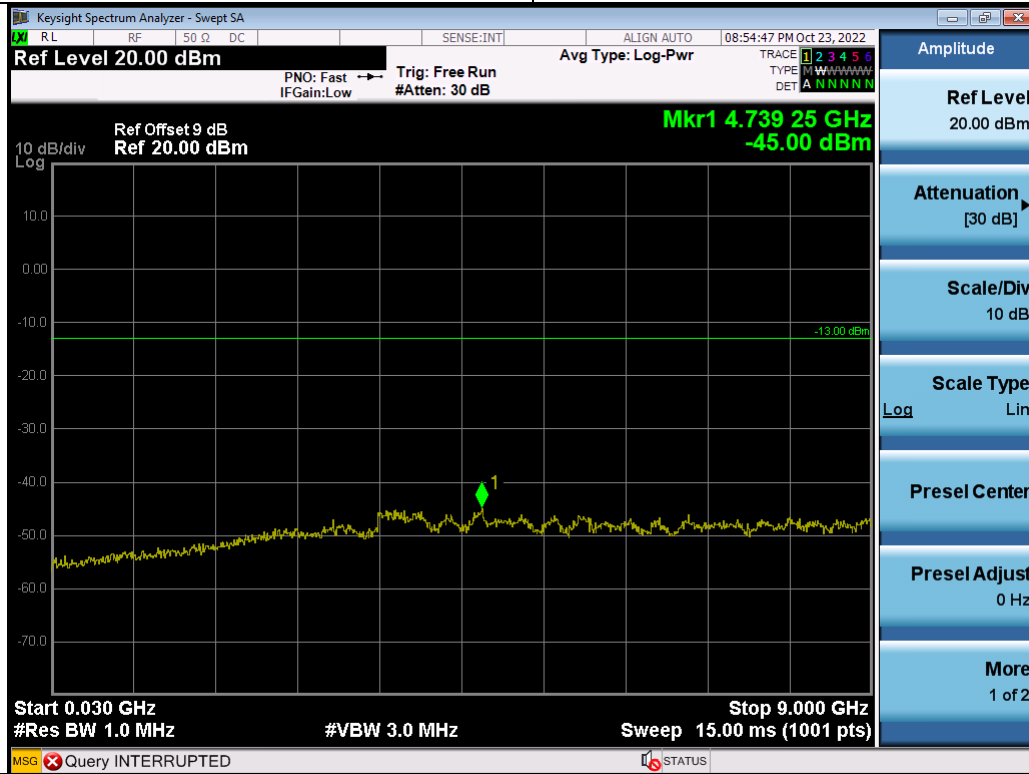
LTE Band 5_1.4M Spectrum Plot

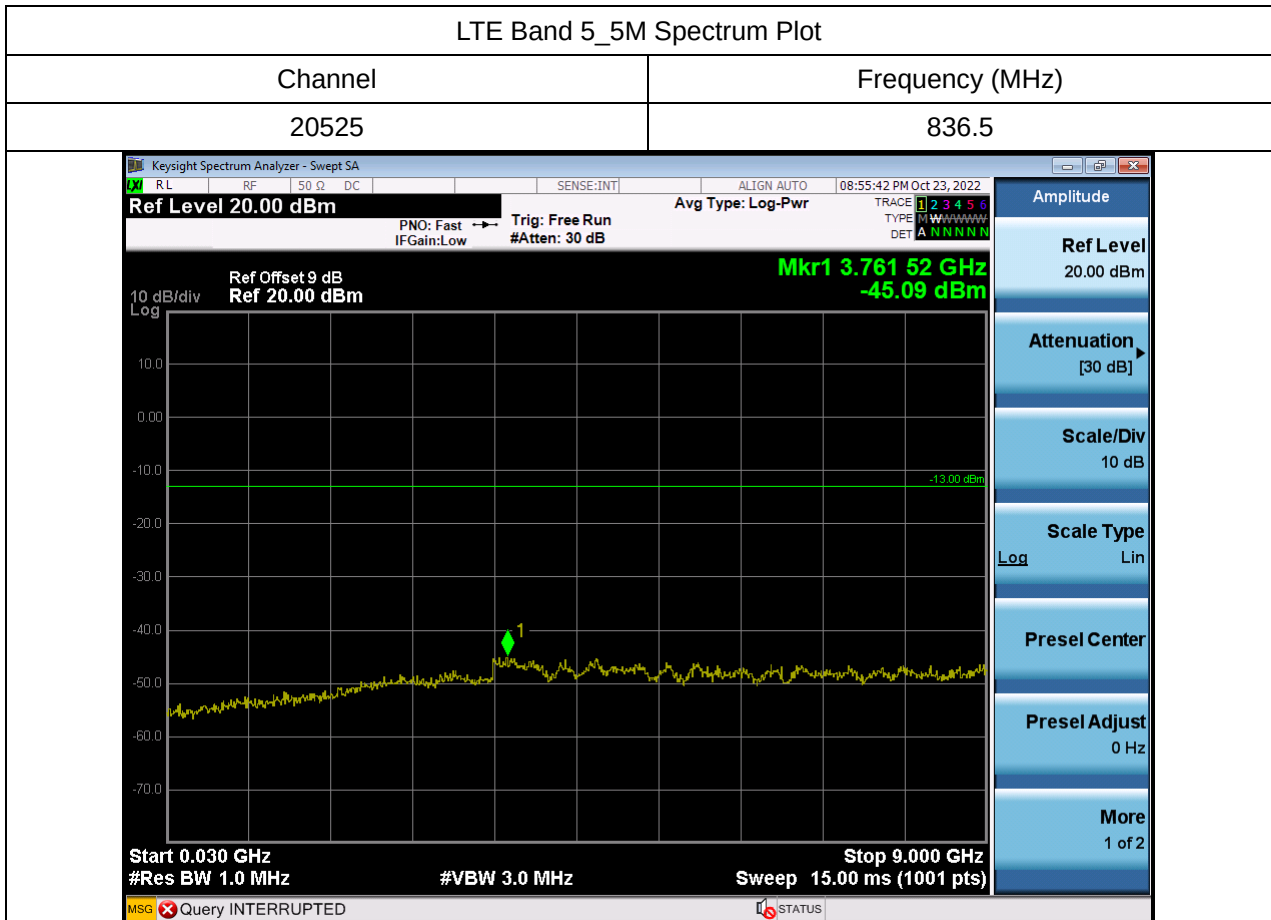
Channel

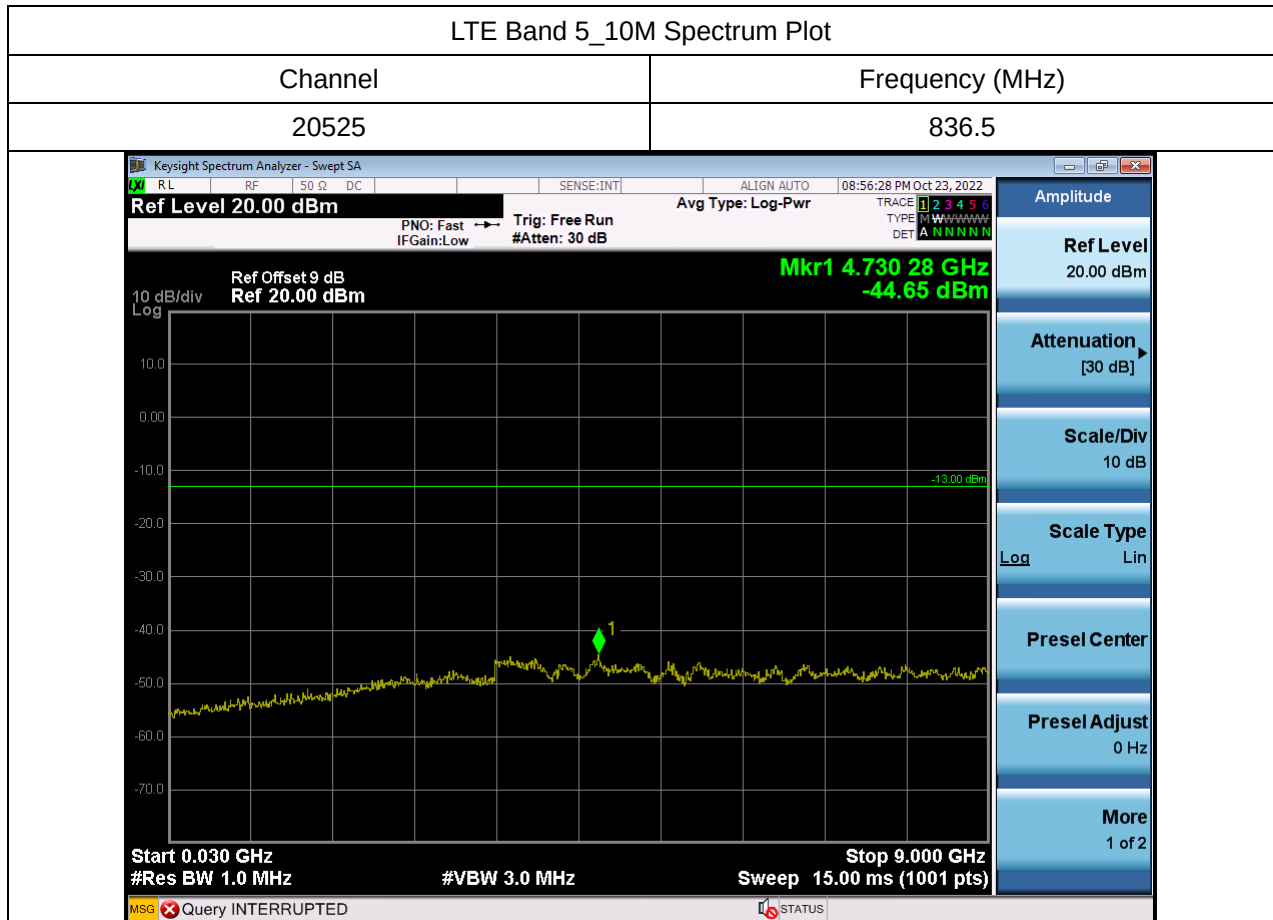
20525

Frequency (MHz)

836.5







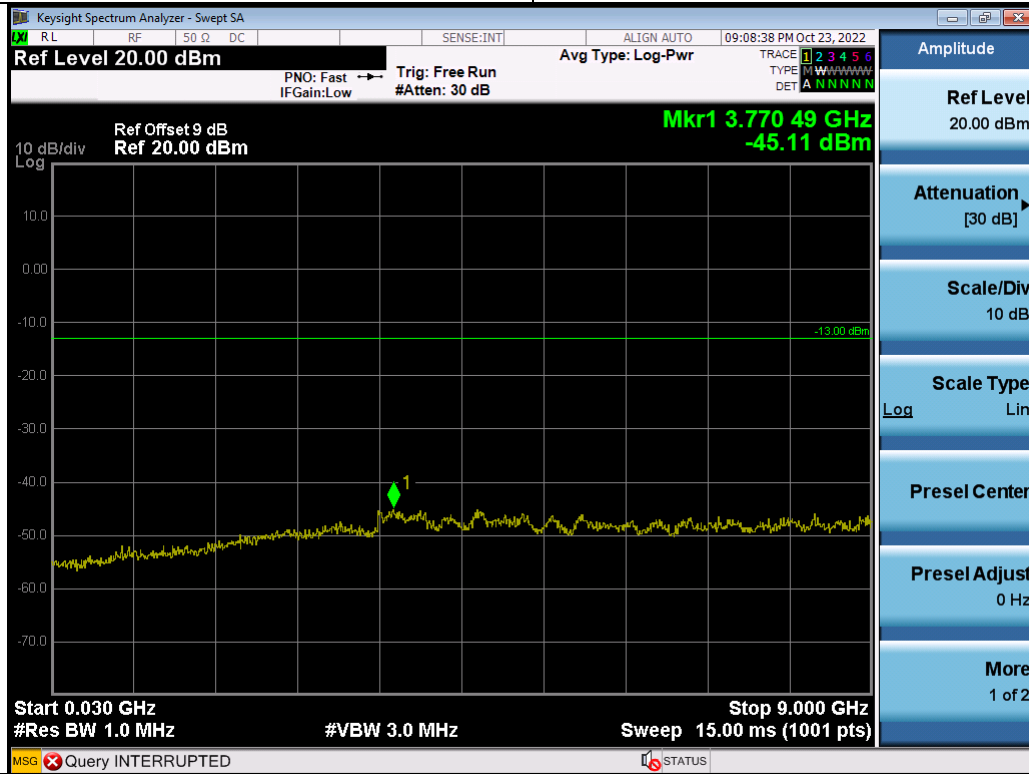
LTE Band 26_1.4M Spectrum Plot

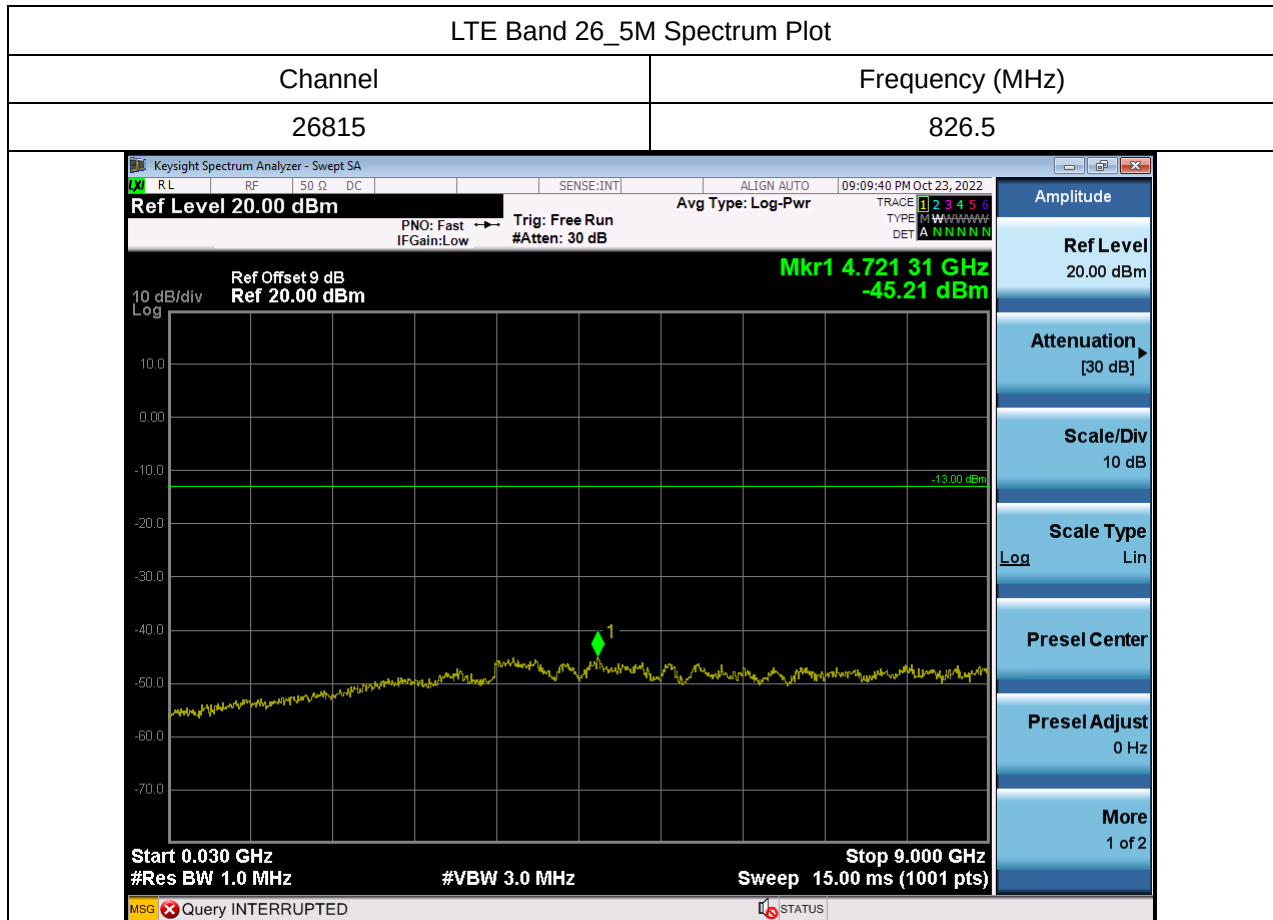
Channel

26797

Frequency (MHz)

824.7





LTE Band 26_15M Spectrum Plot

Channel

26865

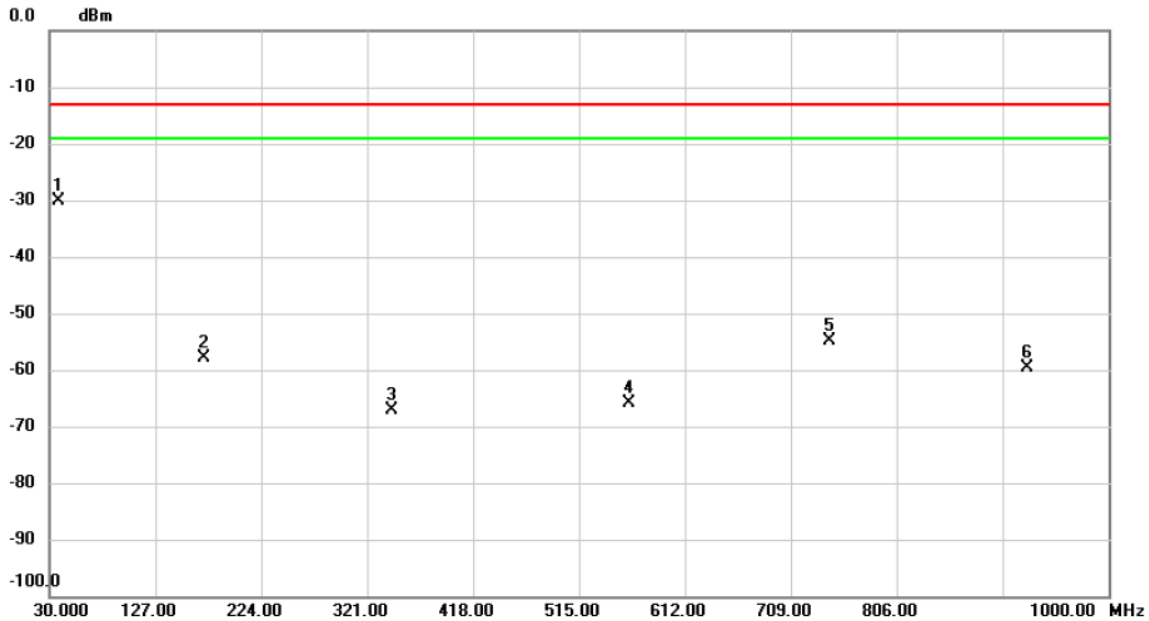
Frequency (MHz)

831.5



APPENDIX D RADIATED SPURIOUS EMISSIONS

Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Vertical
Temp	23°C	Hum.	59%

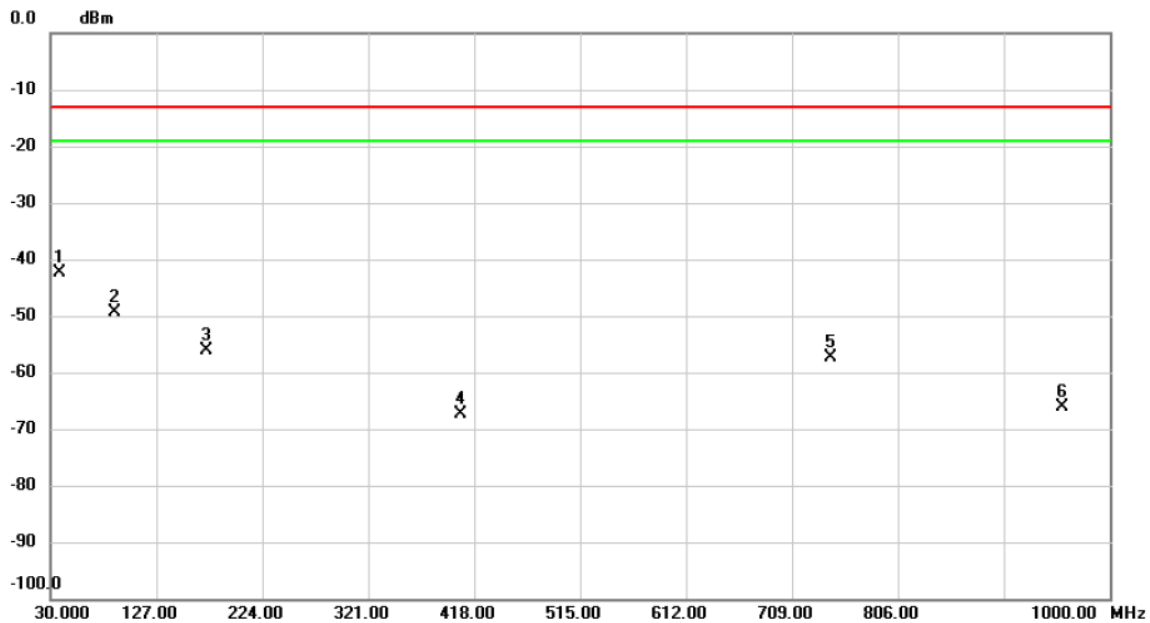


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	37.8247	-53.00	22.82	-30.18	-13.00	-17.18	peak	
2		171.1673	-74.42	16.46	-57.96	-13.00	-44.96	peak	
3		343.8597	-76.12	8.93	-67.19	-13.00	-54.19	peak	
4		560.6547	-76.29	10.53	-65.76	-13.00	-52.76	peak	
5		745.0840	-64.75	9.91	-54.84	-13.00	-41.84	peak	
6		924.9867	-70.90	11.26	-59.64	-13.00	-46.64	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Horizontal
Temp	23°C	Hum.	59%

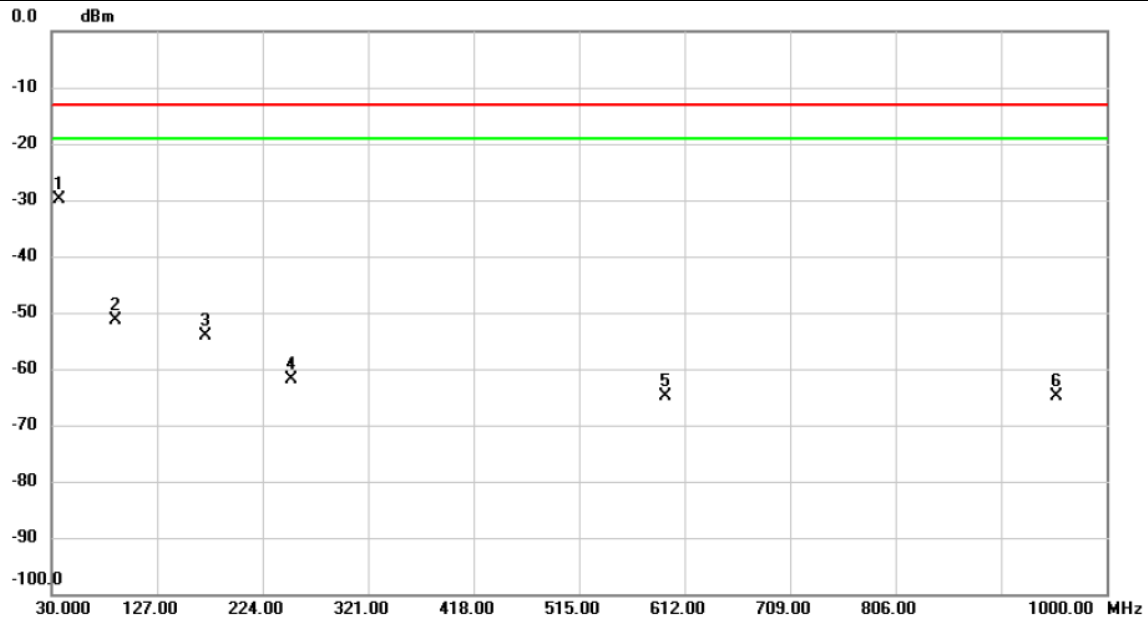


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	38.1802	-67.09	24.70	-42.39	-13.00	-29.39	peak	
2		88.6850	-64.69	15.36	-49.33	-13.00	-36.33	peak	
3		173.3983	-68.52	12.30	-56.22	-13.00	-43.22	peak	
4		405.2606	-75.66	8.30	-67.36	-13.00	-54.36	peak	
5		744.7283	-66.66	9.18	-57.48	-13.00	-44.48	peak	
6		956.2853	-76.02	9.95	-66.07	-13.00	-53.07	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Vertical
Temp	23°C	Hum.	59%



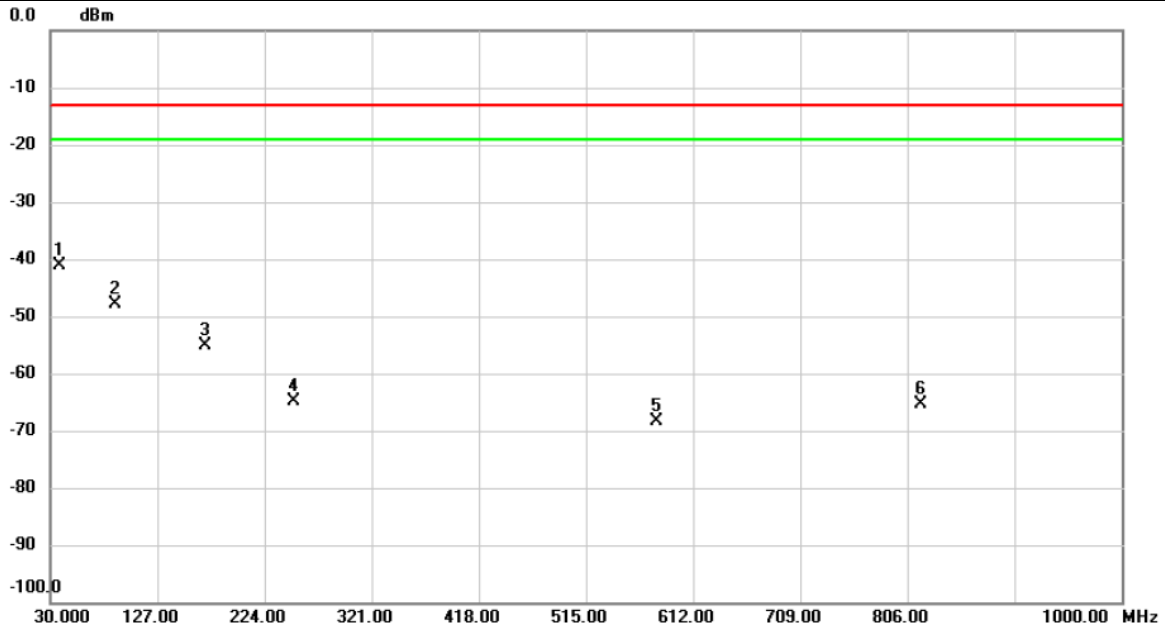
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	37.7277	-52.63	22.80	-29.83	-13.00	-16.83	peak	
2		88.9113	-68.79	17.39	-51.40	-13.00	-38.40	peak	
3		171.7817	-70.43	16.33	-54.10	-13.00	-41.10	peak	
4		249.9960	-74.12	12.14	-61.98	-13.00	-48.98	peak	
5		594.8957	-75.61	10.66	-64.95	-13.00	-51.95	peak	
6		954.7333	-76.52	11.60	-64.92	-13.00	-51.92	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Horizontal
Temp	23°C	Hum.	59%

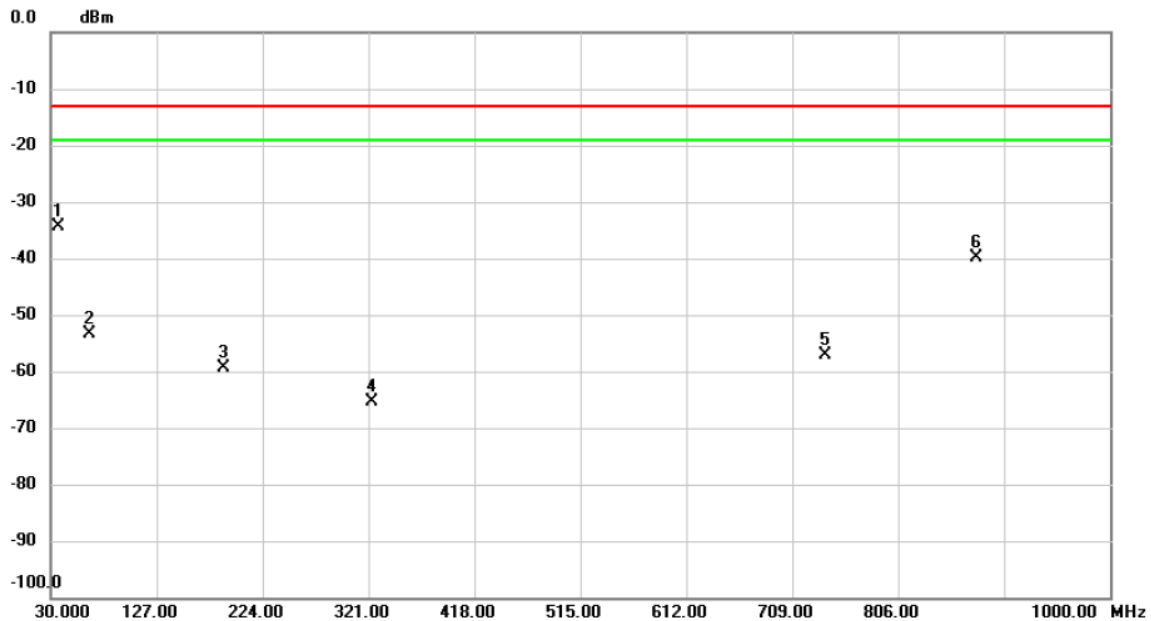


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	38.0510	-65.72	24.63	-41.09	-13.00	-28.09	peak	
2		88.8790	-63.33	15.34	-47.99	-13.00	-34.99	peak	
3		170.5530	-68.23	13.00	-55.23	-13.00	-42.23	peak	
4		249.9960	-72.09	7.12	-64.97	-13.00	-51.97	peak	
5		578.5027	-75.84	7.51	-68.33	-13.00	-55.33	peak	
6		818.2220	-75.60	10.12	-65.48	-13.00	-52.48	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/10/21
Test Channel	CH20525	Polarization	Vertical
Temp	23°C	Hum.	59%

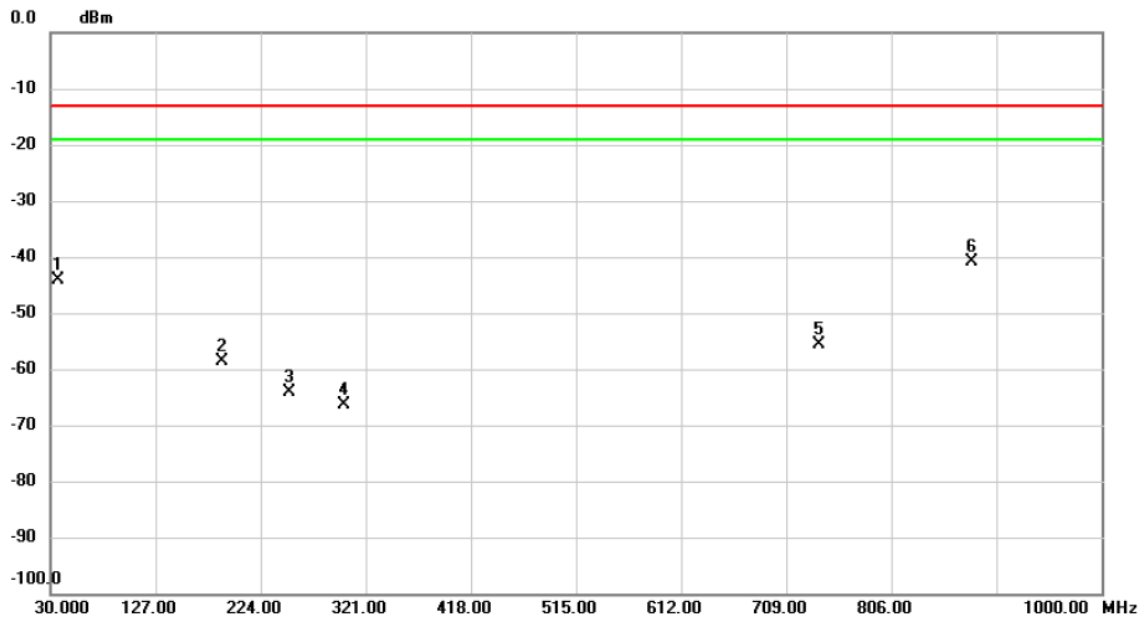


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	36.6607	-56.89	22.60	-34.29	-13.00	-21.29	peak	
2		66.2132	-70.62	17.13	-53.49	-13.00	-40.49	peak	
3		188.5302	-72.16	12.77	-59.39	-13.00	-46.39	peak	
4		324.5242	-74.49	9.09	-65.40	-13.00	-52.40	peak	
5		739.1992	-67.09	9.99	-57.10	-13.00	-44.10	peak	
6		877.6507	-50.46	10.51	-39.95	-13.00	-26.95	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/10/21
Test Channel	CH20525	Polarization	Horizontal
Temp	23°C	Hum.	59%

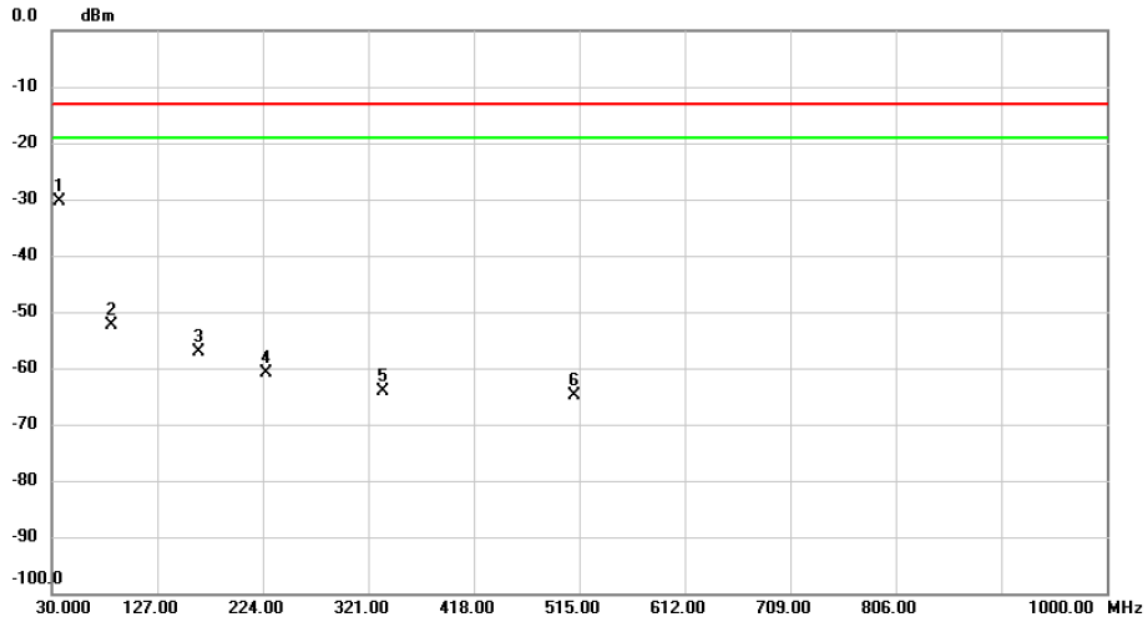


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		36.9517	-68.06	24.02	-44.04	-13.00	-31.04	peak	
2		188.0453	-66.83	8.20	-58.63	-13.00	-45.63	peak	
3		250.0283	-71.34	7.12	-64.22	-13.00	-51.22	peak	
4		300.7593	-72.73	6.40	-66.33	-13.00	-53.33	peak	
5		739.0053	-64.82	9.15	-55.67	-13.00	-42.67	peak	
6	*	879.9787	-50.44	9.46	-40.98	-13.00	-27.98	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/10/21
Test Channel	CH26915	Polarization	Vertical
Temp	23°C	Hum.	59%



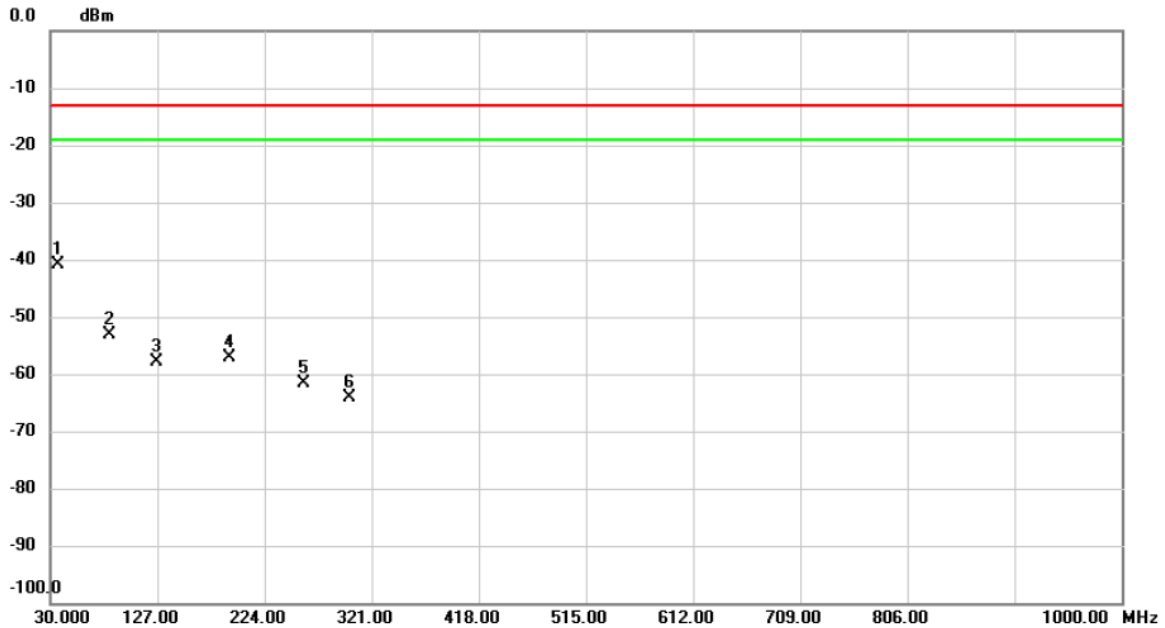
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	37.2103	-55.18	24.85	-30.33	-13.00	-17.33	peak	
2		84.4170	-71.83	19.42	-52.41	-13.00	-39.41	peak	
3		165.3473	-75.73	18.50	-57.23	-13.00	-44.23	peak	
4		227.1363	-75.44	14.52	-60.92	-13.00	-47.92	peak	
5		334.3860	-75.36	11.16	-64.20	-13.00	-51.20	peak	
6		510.1500	-75.98	11.07	-64.91	-13.00	-51.91	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/10/21
Test Channel	CH26915	Polarization	Horizontal
Temp	23°C	Hum.	59%



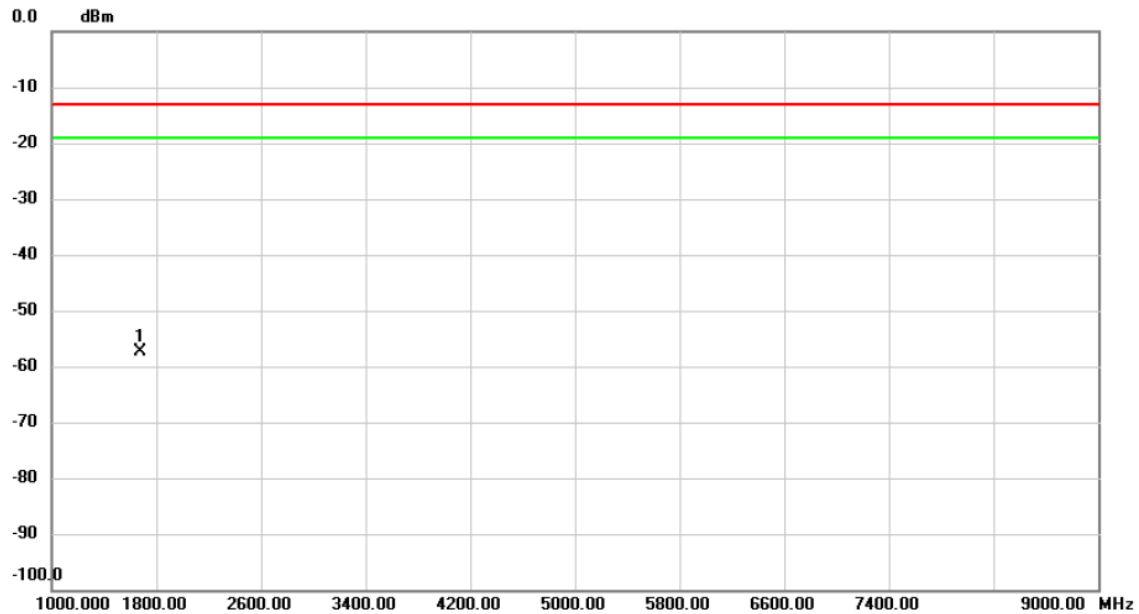
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	36.9517	-67.09	26.17	-40.92	-13.00	-27.92	peak	
2		84.0613	-71.35	18.16	-53.19	-13.00	-40.19	peak	
3		126.7736	-73.68	15.93	-57.75	-13.00	-44.75	peak	
4		192.4427	-66.64	9.47	-57.17	-13.00	-44.17	peak	
5		259.8577	-70.79	9.12	-61.67	-13.00	-48.67	peak	
6		300.8240	-72.77	8.55	-64.22	-13.00	-51.22	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Vertical
Temp	23°C	Hum.	59%

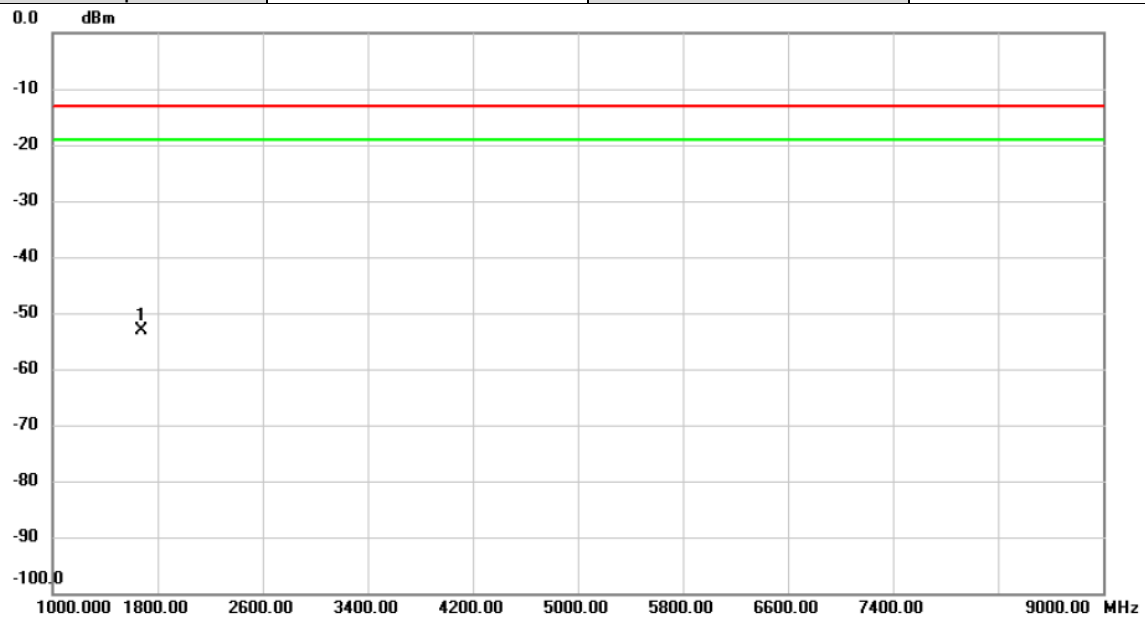


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.867	-62.00	4.53	-57.47	-13.00	-44.47	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Horizontal
Temp	23°C	Hum.	59%

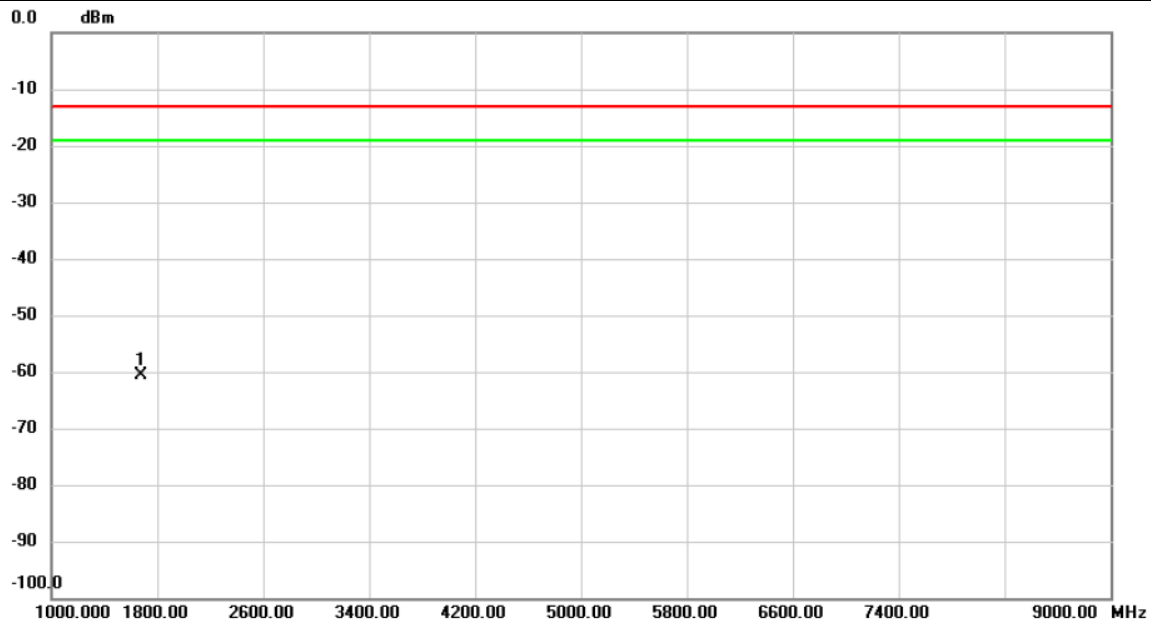


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.600	-57.61	4.52	-53.09	-13.00	-40.09	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Vertical
Temp	23°C	Hum.	59%

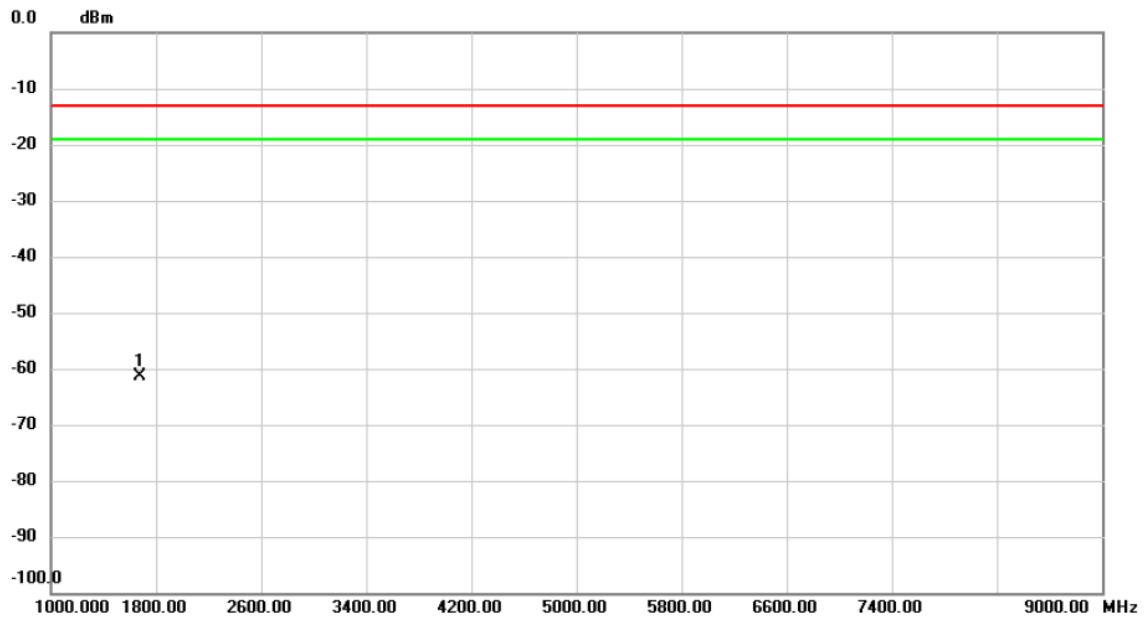


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1672.800	-65.16	4.53	-60.63	-13.00	-47.63	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Horizontal
Temp	23°C	Hum.	59%

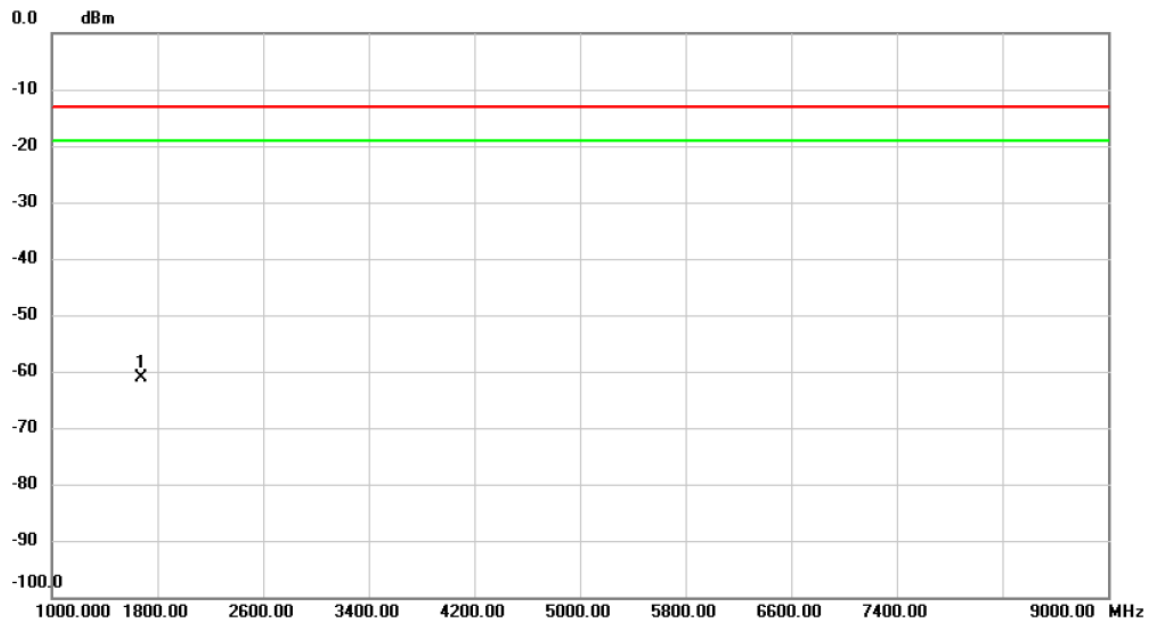


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1672.800	-65.90	4.52	-61.38	-13.00	-48.38	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/10/20
Test Channel	CH20525	Polarization	Vertical
Temp	23°C	Hum.	59%

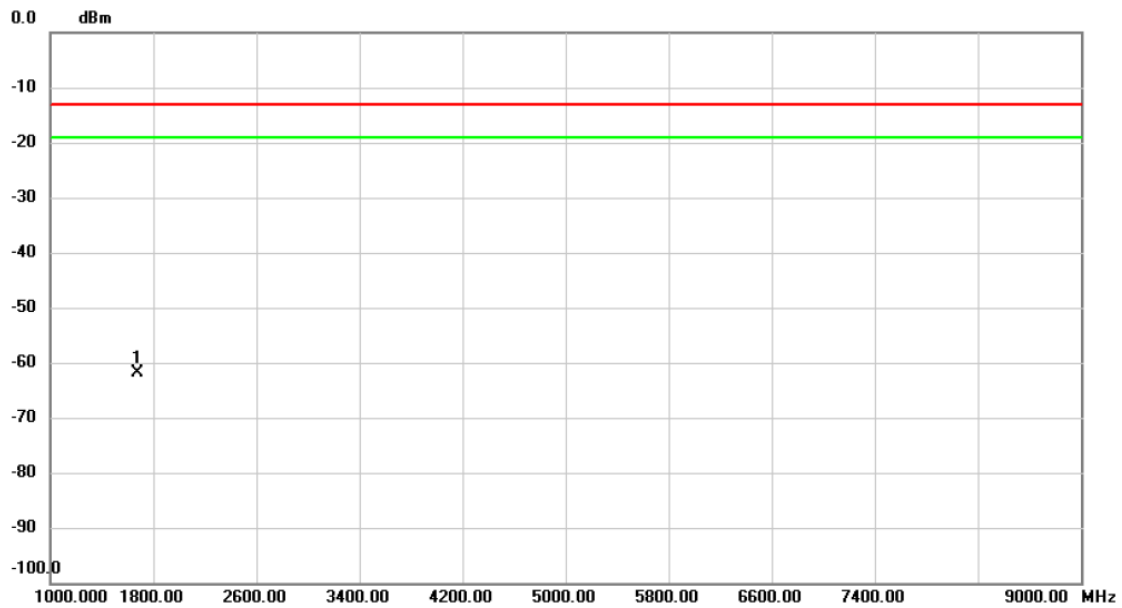


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-65.74	4.53	-61.21	-13.00	-48.21	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/10/20
Test Channel	CH20525	Polarization	Horizontal
Temp	23°C	Hum.	59%

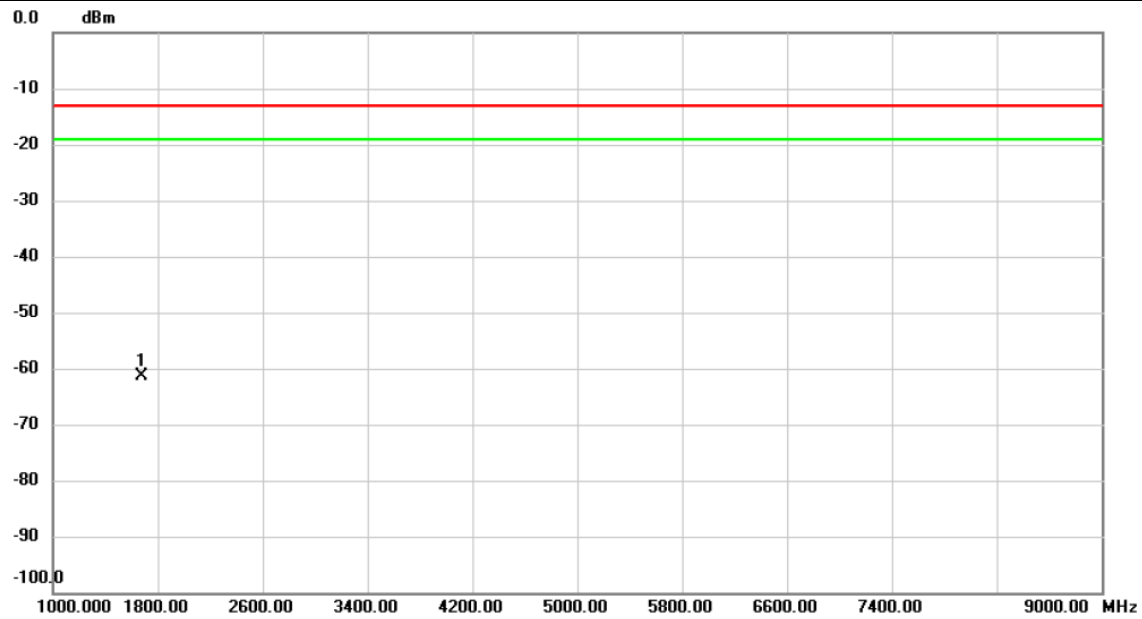


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.44	4.52	-61.92	-13.00	-48.92	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/10/20
Test Channel	CH26915	Polarization	Vertical
Temp	23°C	Hum.	59%

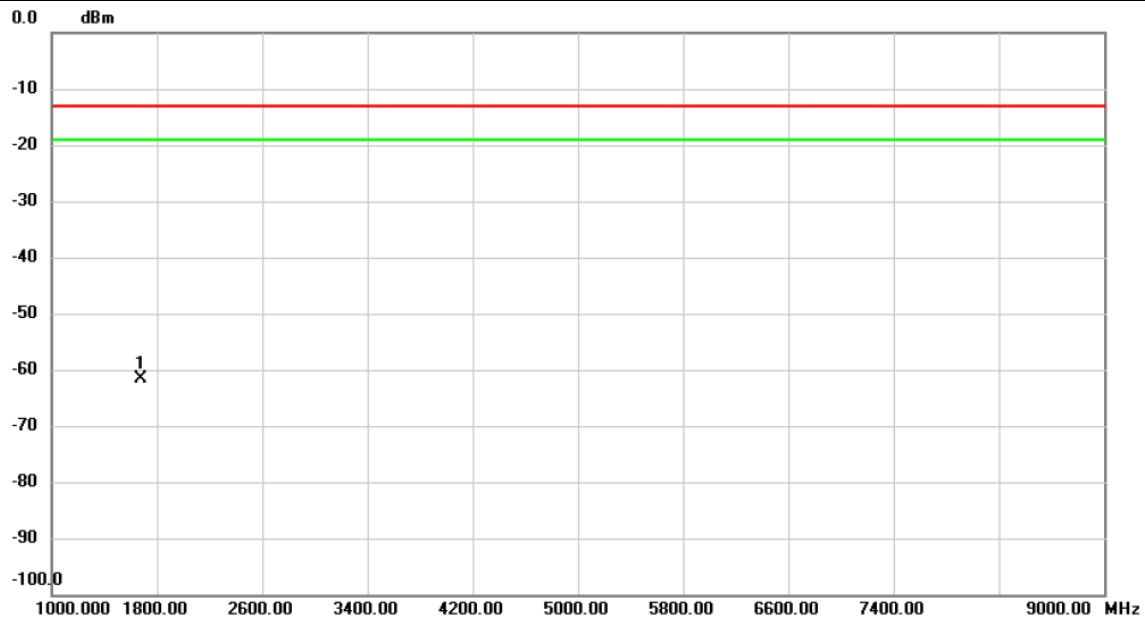


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.00	4.53	-61.47	-13.00	-48.47	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/10/20
Test Channel	CH26915	Polarization	Horizontal
Temp	23°C	Hum.	59%



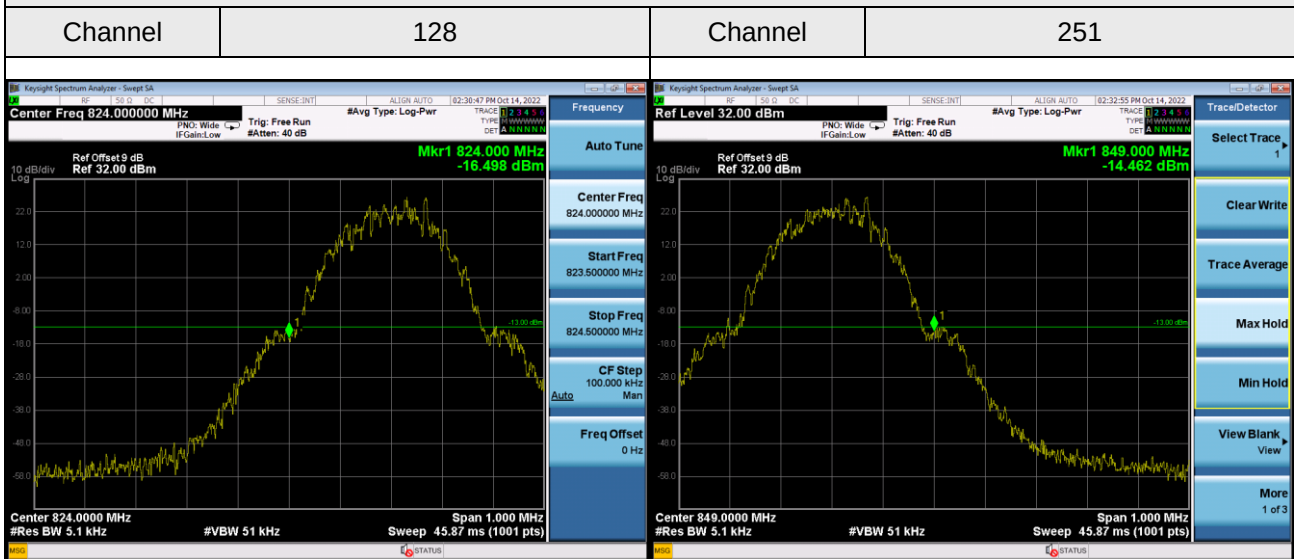
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1673.000	-66.24	4.52	-61.72	-13.00	-48.72	peak	

REMARKS:

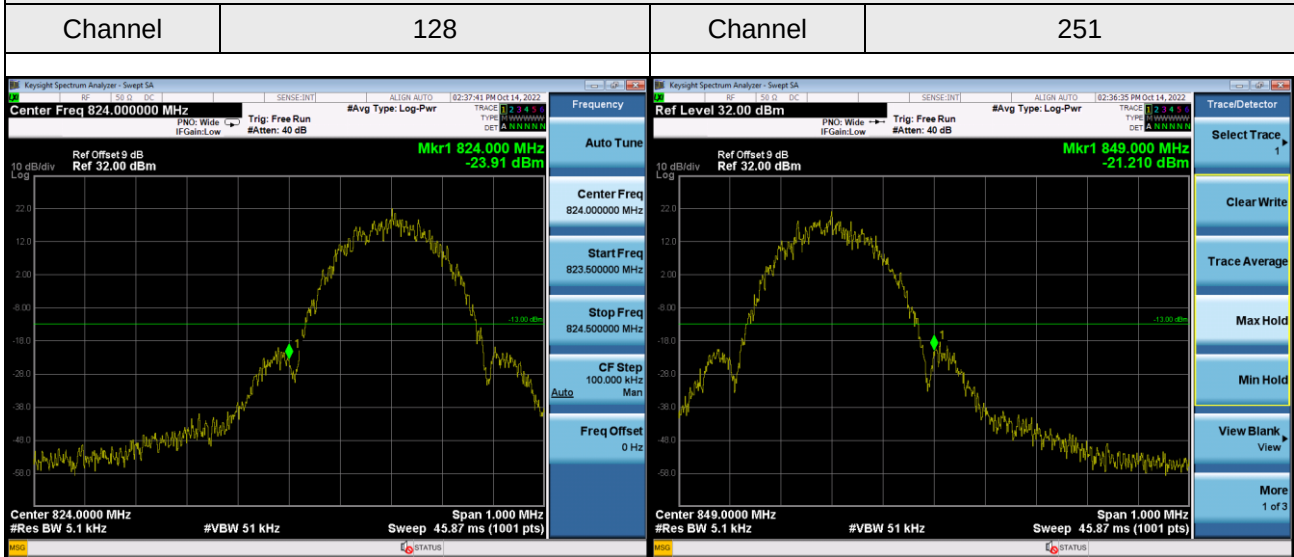
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E BAND EDGE

GSM850_GSM Spectrum Plot



GSM850_EDGE Spectrum Plot



WCDMA Band V_WCDMA Spectrum Plot

Channel

4132

Channel

4233

