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Appendix B

E-UTRA BAND 30



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1 Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB	Result	EIRP	Limit	Verdic
DAND	Daridwidth	Woddiation	Chamilei	Configuration	(dBm)	(dBm)	(dBm)	t
BAND 30	5MHz	QPSK	27685	1RB#0	22.95	22.95	24.00	PASS
BAND 30	5MHz	QPSK	27685	1RB#12	22.80	22.80	24.00	PASS
BAND 30	5MHz	QPSK	27685	1RB#24	22.73	22.73	24.00	PASS
BAND 30	5MHz	QPSK	27685	12RB#0	21.88	21.88	24.00	PASS
BAND 30	5MHz	QPSK	27685	12RB#6	21.86	21.86	24.00	PASS
BAND 30	5MHz	QPSK	27685	12RB#13	21.66	21.66	24.00	PASS
BAND 30	5MHz	QPSK	27685	25RB#0	21.88	21.88	24.00	PASS
BAND 30	5MHz	QPSK	27710	1RB#0	22.83	22.83	24.00	PASS
BAND 30	5MHz	QPSK	27710	1RB#12	22.73	22.73	24.00	PASS
BAND 30	5MHz	QPSK	27710	1RB#24	22.66	22.66	24.00	PASS
BAND 30	5MHz	QPSK	27710	12RB#0	21.76	21.76	24.00	PASS
BAND 30	5MHz	QPSK	27710	12RB#6	21.78	21.78	24.00	PASS
BAND 30	5MHz	QPSK	27710	12RB#13	21.70	21.70	24.00	PASS
BAND 30	5MHz	QPSK	27710	25RB#0	21.72	21.72	24.00	PASS
BAND 30	5MHz	QPSK	27735	1RB#0	22.81	22.81	24.00	PASS
BAND 30	5MHz	QPSK	27735	1RB#12	22.62	22.62	24.00	PASS
BAND 30	5MHz	QPSK	27735	1RB#24	22.58	22.58	24.00	PASS
BAND 30	5MHz	QPSK	27735	12RB#0	21.80	21.80	24.00	PASS
BAND 30	5MHz	QPSK	27735	12RB#6	21.68	21.68	24.00	PASS
BAND 30	5MHz	QPSK	27735	12RB#13	21.64	21.64	24.00	PASS
BAND 30	5MHz	QPSK	27735	25RB#0	21.65	21.65	24.00	PASS
BAND 30	5MHz	64QAM	27685	1RB#0	21.97	21.97	24.00	PASS
BAND 30	5MHz	64QAM	27685	1RB#12	21.77	21.77	24.00	PASS
BAND 30	5MHz	64QAM	27685	1RB#24	21.54	21.54	24.00	PASS
BAND 30	5MHz	64QAM	27685	12RB#0	20.81	20.81	24.00	PASS
BAND 30	5MHz	64QAM	27685	12RB#6	20.80	20.80	24.00	PASS
BAND 30	5MHz	64QAM	27685	12RB#13	20.63	20.63	24.00	PASS
BAND 30	5MHz	64QAM	27685	25RB#0	20.74	20.74	24.00	PASS
BAND 30	5MHz	64QAM	27710	1RB#0	21.86	21.86	24.00	PASS
BAND 30	5MHz	64QAM	27710	1RB#12	21.76	21.76	24.00	PASS
BAND 30	5MHz	64QAM	27710	1RB#24	21.74	21.74	24.00	PASS
BAND 30	5MHz	64QAM	27710	12RB#0	20.69	20.69	24.00	PASS
BAND 30	5MHz	64QAM	27710	12RB#6	20.65	20.65	24.00	PASS
BAND 30	5MHz	64QAM	27710	12RB#13	20.64	20.64	24.00	PASS
BAND 30	5MHz	64QAM	27710	25RB#0	20.66	20.66	24.00	PASS
BAND 30	5MHz	64QAM	27735	1RB#0	21.80	21.80	24.00	PASS
BAND 30	5MHz	64QAM	27735	1RB#12	21.56	21.56	24.00	PASS
BAND 30	5MHz	64QAM	27735	1RB#24	21.47	21.47	24.00	PASS
BAND 30	5MHz	64QAM	27735	12RB#0	20.75	20.75	24.00	PASS
BAND 30	5MHz	64QAM	27735	12RB#6	20.63	20.63	24.00	PASS
BAND 30	5MHz	64QAM	27735	12RB#13	20.57	20.57	24.00	PASS
BAND 30	5MHz	64QAM	27735	25RB#0	20.58	20.58	24.00	PASS
BAND 30	5MHz	16QAM	27685	1RB#0	22.34	22.34	24.00	PASS
BAND 30	5MHz	16QAM	27685	1RB#12	22.21	22.21	24.00	PASS
BAND 30	5MHz	16QAM	27685	1RB#24	21.92	21.92	24.00	PASS
BAND 30	5MHz	16QAM	27685	12RB#0	20.89	20.89	24.00	PASS
BAND 30	5MHz	16QAM	27685	12RB#6	20.91	20.91	24.00	PASS

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BAND 30	5MHz	16QAM	27685	12RB#13	20.71	20.71	24.00	PASS
BAND 30	5MHz	16QAM	27685	25RB#0	20.80	20.80	24.00	PASS
BAND 30	5MHz	16QAM	27710	1RB#0	22.16	22.16	24.00	PASS
BAND 30	5MHz	16QAM	27710	1RB#12	21.93	21.93	24.00	PASS
BAND 30	5MHz	16QAM	27710	1RB#24	21.85	21.85	24.00	PASS
BAND 30	5MHz	16QAM	27710	12RB#0	20.79	20.79	24.00	PASS
BAND 30	5MHz	16QAM	27710	12RB#6	20.84	20.84	24.00	PASS
BAND 30	5MHz	16QAM	27710	12RB#13	20.78	20.78	24.00	PASS
BAND 30	5MHz	16QAM	27710	25RB#0	20.74	20.74	24.00	PASS
BAND 30	5MHz	16QAM	27735	1RB#0	22.16	22.16	24.00	PASS
BAND 30	5MHz	16QAM	27735	1RB#12	22.03	22.03	24.00	PASS
BAND 30	5MHz	16QAM	27735	1RB#24	21.74	21.74	24.00	PASS
BAND 30	5MHz	16QAM	27735	12RB#0	20.79	20.79	24.00	PASS
BAND 30	5MHz	16QAM	27735	12RB#6	20.65	20.65	24.00	PASS
BAND 30	5MHz	16QAM	27735	12RB#13	20.67	20.67	24.00	PASS
BAND 30	5MHz	16QAM	27735	25RB#0	20.65	20.65	24.00	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	22.82	22.82	24.00	PASS
BAND 30	10MHz	QPSK	27710	1RB#24	22.71	22.71	24.00	PASS
BAND 30	10MHz	QPSK	27710	1RB#49	22.61	22.61	24.00	PASS
BAND 30	10MHz	QPSK	27710	25RB#0	21.87	21.87	24.00	PASS
BAND 30	10MHz	QPSK	27710	25RB#12	21.78	21.78	24.00	PASS
BAND 30	10MHz	QPSK	27710	25RB#25	21.66	21.66	24.00	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	21.84	21.84	24.00	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	21.97	21.97	24.00	PASS
BAND 30	10MHz	64QAM	27710	1RB#24	21.63	21.63	24.00	PASS
BAND 30	10MHz	64QAM	27710	1RB#49	21.65	21.65	24.00	PASS
BAND 30	10MHz	64QAM	27710	25RB#0	20.77	20.77	24.00	PASS
BAND 30	10MHz	64QAM	27710	25RB#12	20.68	20.68	24.00	PASS
BAND 30	10MHz	64QAM	27710	25RB#25	20.57	20.57	24.00	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	20.78	20.78	24.00	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	22.17	22.17	24.00	PASS
BAND 30	10MHz	16QAM	27710	1RB#24	21.86	21.86	24.00	PASS
BAND 30	10MHz	16QAM	27710	1RB#49	21.86	21.86	24.00	PASS
BAND 30	10MHz	16QAM	27710	25RB#0	20.83	20.83	24.00	PASS
BAND 30	10MHz	16QAM	27710	25RB#12	20.71	20.71	24.00	PASS
BAND 30	10MHz	16QAM	27710	25RB#25	20.59	20.59	24.00	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	20.76	20.76	24.00	PASS
N 1 4								

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



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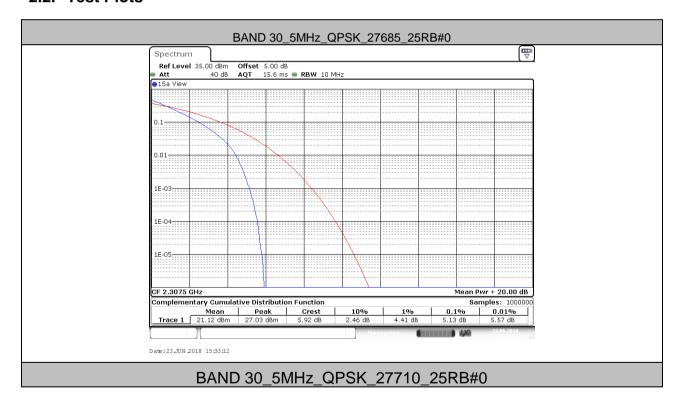
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2 Peak-to-Average Ratio

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 30	5MHz	QPSK	27685	25RB#0	5.13	13	PASS
BAND 30	5MHz	QPSK	27710	25RB#0	4.99	13	PASS
BAND 30	5MHz	QPSK	27735	25RB#0	4.87	13	PASS
BAND 30	5MHz	16QAM	27685	25RB#0	6.06	13	PASS
BAND 30	5MHz	16QAM	27710	25RB#0	5.88	13	PASS
BAND 30	5MHz	16QAM	27735	25RB#0	5.74	13	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	4.75	13	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	5.71	13	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	5.71	13	PASS

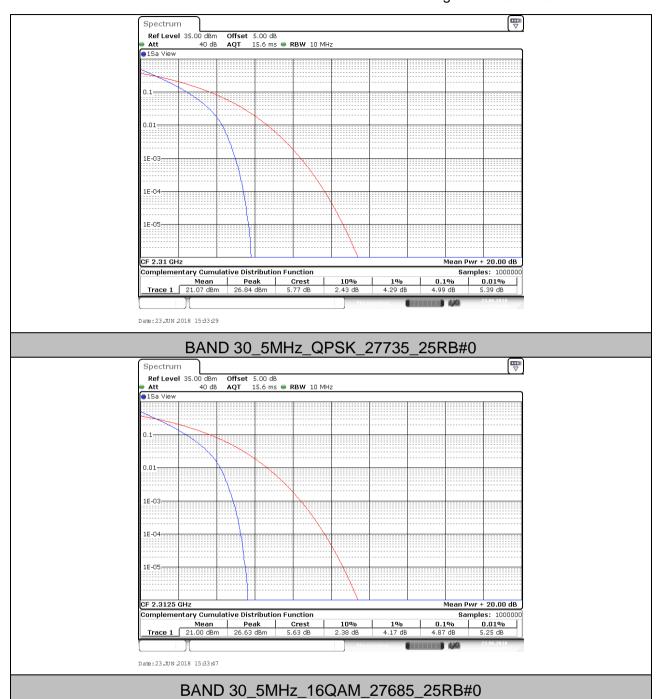
2.2. Test Plots





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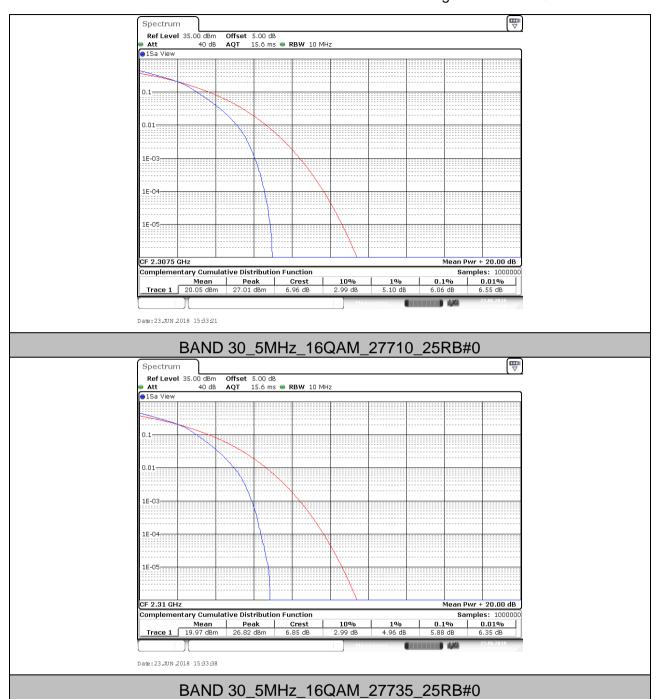
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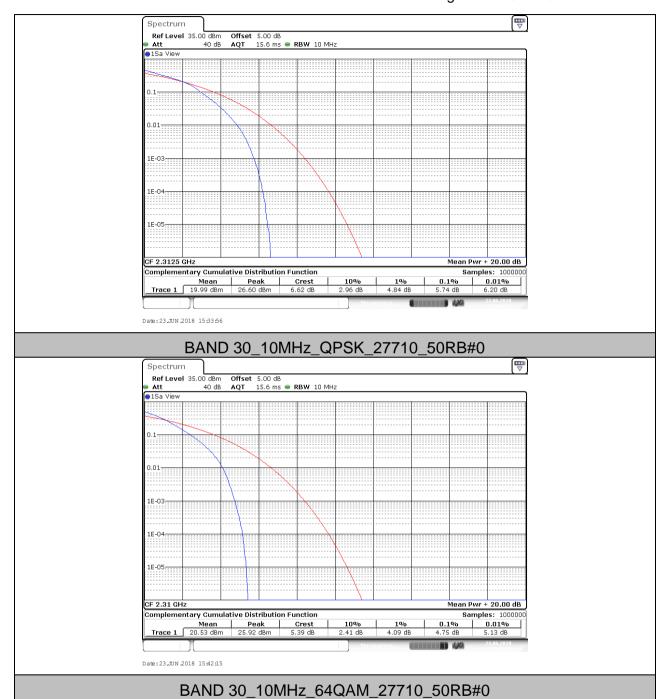
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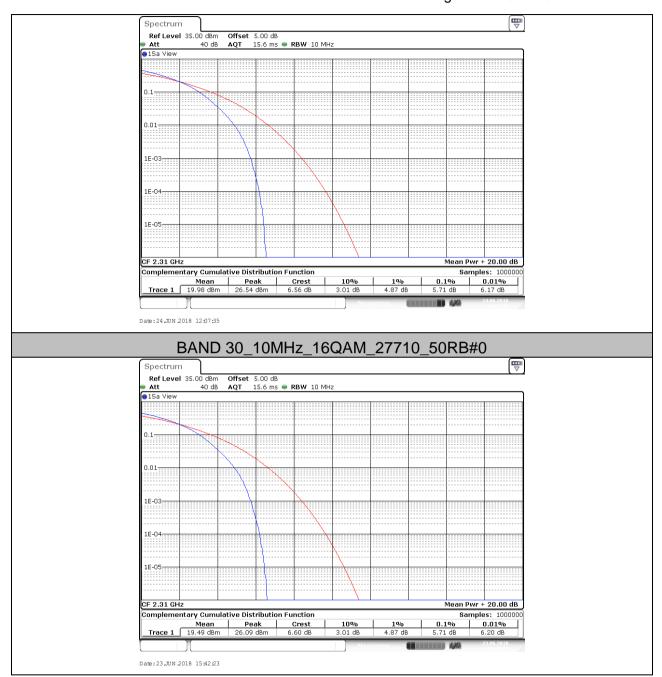
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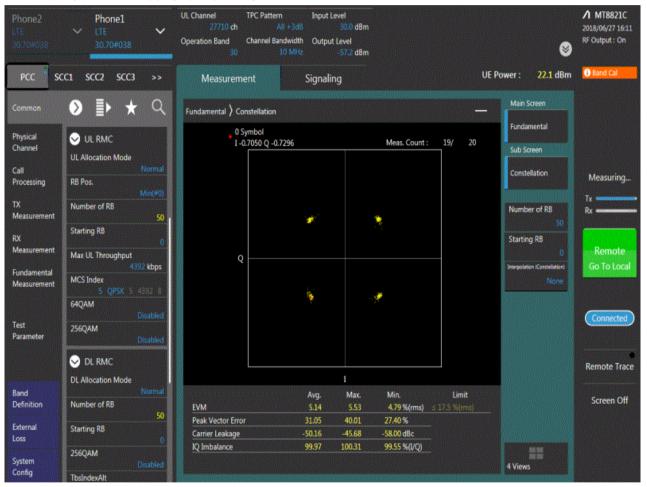
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test BAND = LTE BAND 30

3.1.1.1 Test Mode = LTE /TM1 10MHz

3.1.1.1.1 Test Channel = MCH



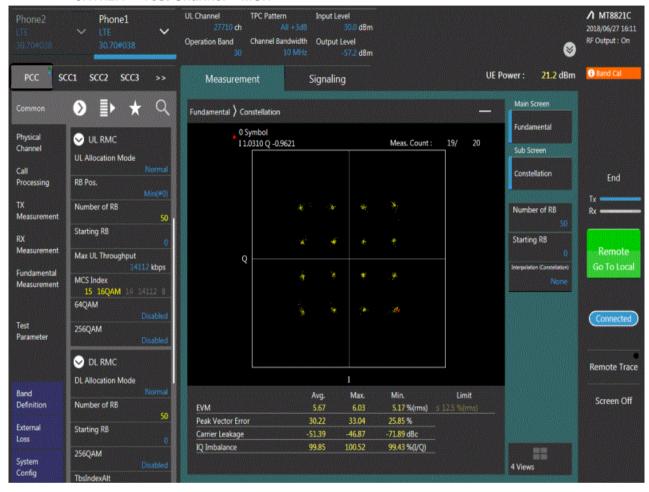


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3.1.1.2 Test Mode = LTE /TM2 10MHz

3.1.1.2.1 Test Channel = MCH



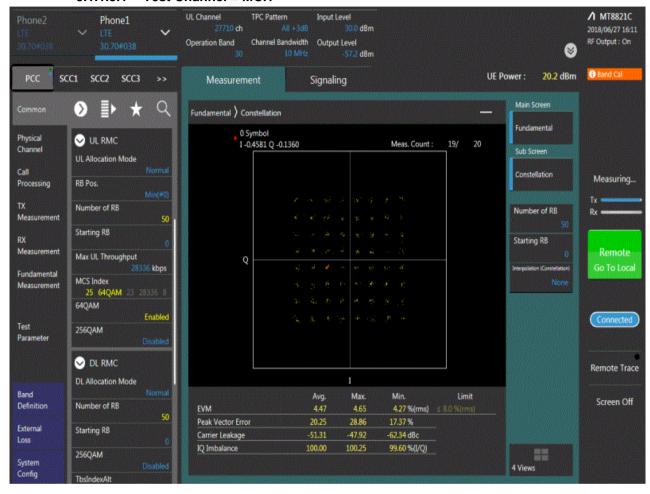


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3.1.1.3 Test Mode = LTE /TM3 10MHz

3.1.1.3.1 Test Channel = MCH





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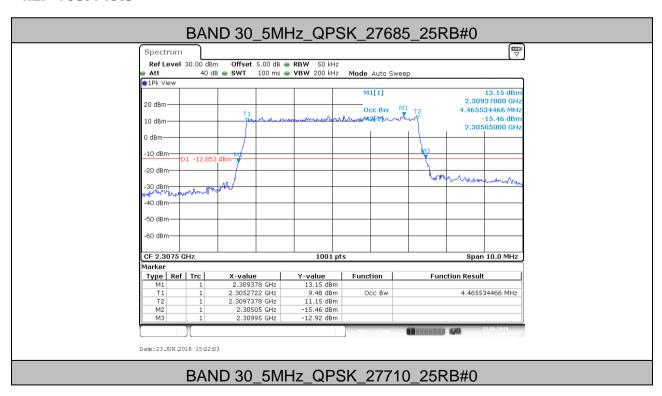
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4 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND 30	5MHz	QPSK	27685	25RB#0	4.466	4.900	PASS
BAND 30	5MHz	QPSK	27710	25RB#0	4.466	4.880	PASS
BAND 30	5MHz	QPSK	27735	25RB#0	4.466	4.880	PASS
BAND 30	5MHz	64QAM	27685	25RB#0	4.476	4.900	PASS
BAND 30	5MHz	64QAM	27710	25RB#0	4.466	4.890	PASS
BAND 30	5MHz	64QAM	27735	25RB#0	4.466	4.910	PASS
BAND 30	5MHz	16QAM	27685	25RB#0	4.486	4.880	PASS
BAND 30	5MHz	16QAM	27710	25RB#0	4.486	4.910	PASS
BAND 30	5MHz	16QAM	27735	25RB#0	4.486	4.910	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	8.911	9.620	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	8.911	9.680	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	8.911	9.680	PASS

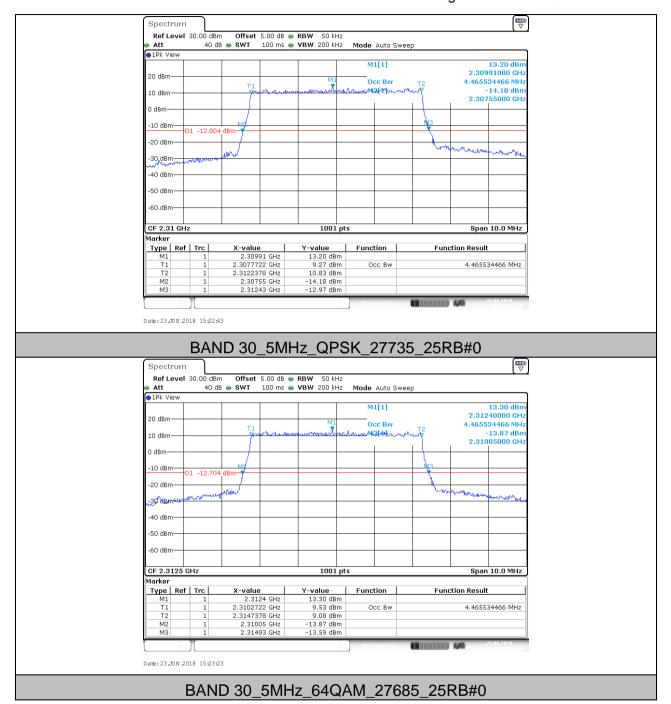
4.2. Test Plots





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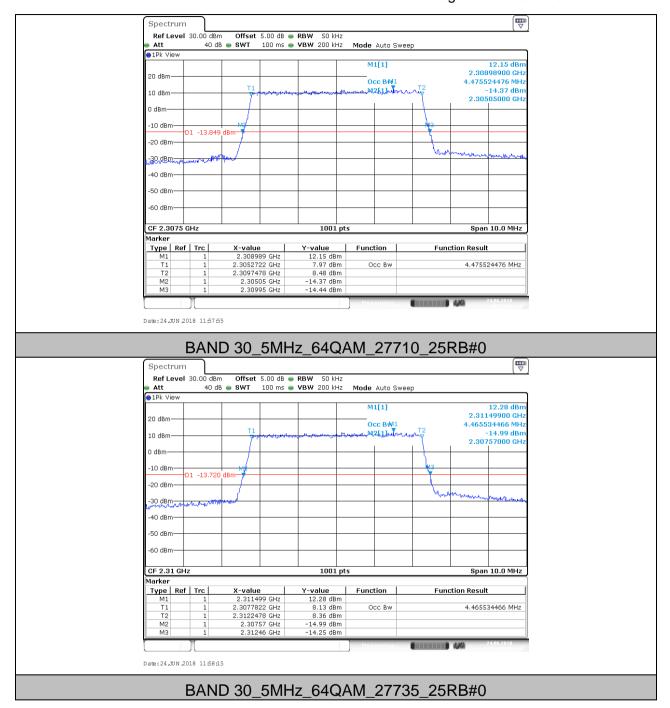
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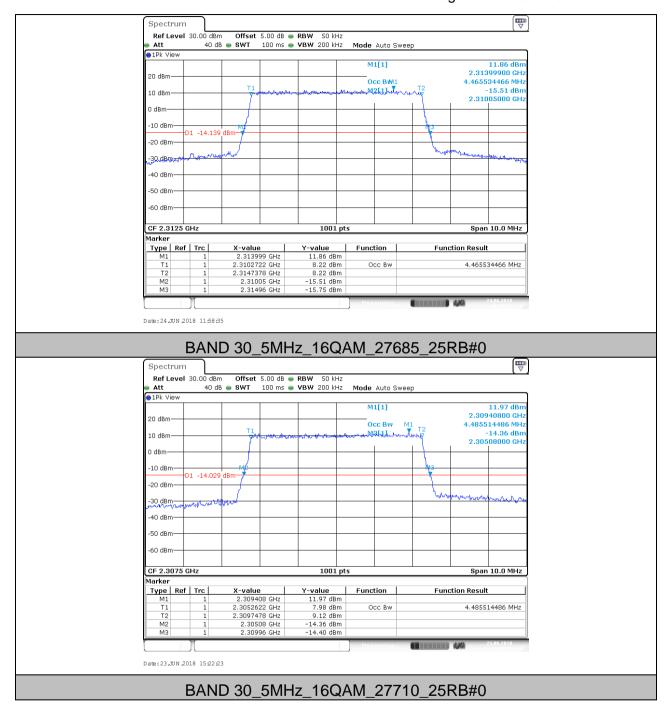
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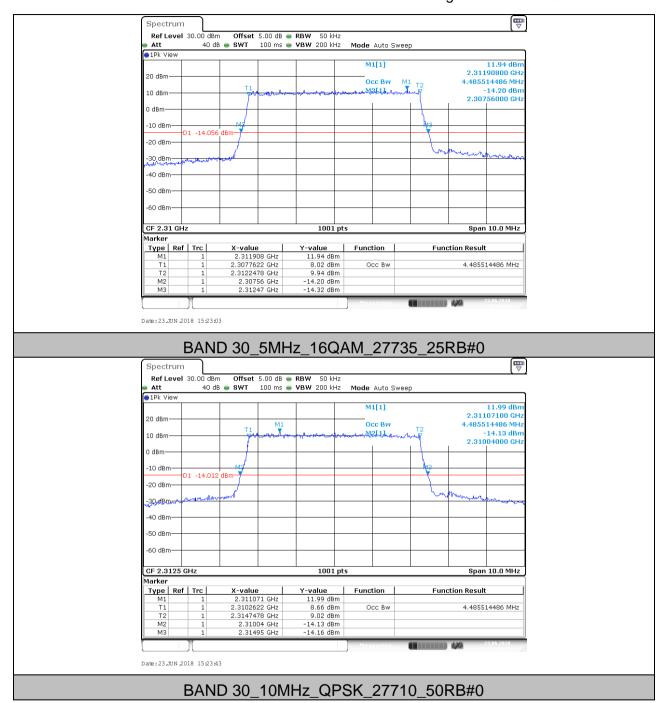
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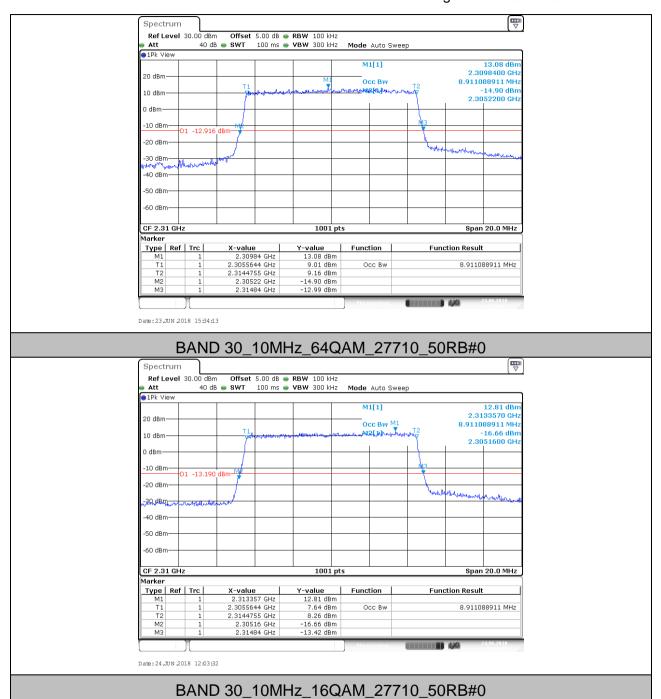
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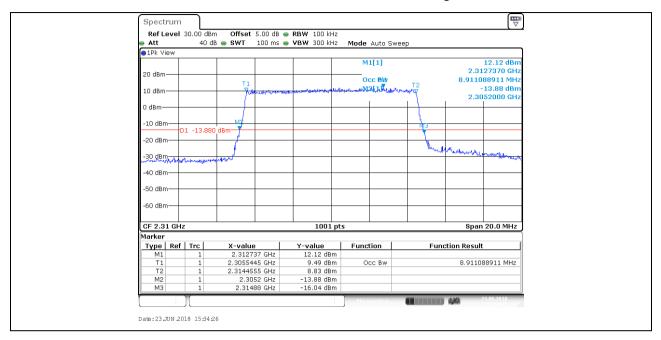
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5 Band Edges Compliance

5.1. Test Result

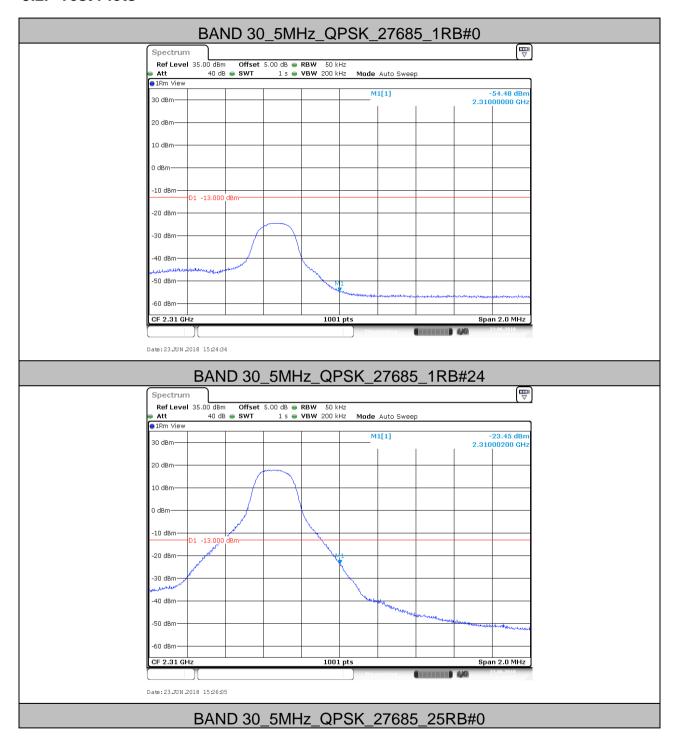
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
BAND 30	5MHz	QPSK	27685	1RB#0	-54.48	PASS
BAND 30	5MHz	QPSK	27685	1RB#24	-23.45	PASS
BAND 30	5MHz	QPSK	27685	25RB#0	-30.29	PASS
BAND 30	5MHz	QPSK	27735	1RB#0	-55.79	PASS
BAND 30	5MHz	QPSK	27735	1RB#24	-23.37	PASS
BAND 30	5MHz	QPSK	27735	25RB#0	-31.05	PASS
BAND 30	5MHz	64QAM	27685	1RB#0	-55.33	PASS
BAND 30	5MHz	64QAM	27685	1RB#24	-23.97	PASS
BAND 30	5MHz	64QAM	27685	25RB#0	-31.06	PASS
BAND 30	5MHz	64QAM	27735	1RB#0	-55.99	PASS
BAND 30	5MHz	64QAM	27735	1RB#24	-23.82	PASS
BAND 30	5MHz	64QAM	27735	25RB#0	-31.15	PASS
BAND 30	5MHz	16QAM	27685	1RB#0	-54.57	PASS
BAND 30	5MHz	16QAM	27685	1RB#24	-23.19	PASS
BAND 30	5MHz	16QAM	27685	25RB#0	-30.86	PASS
BAND 30	5MHz	16QAM	27735	1RB#0	-56.08	PASS
BAND 30	5MHz	16QAM	27735	1RB#24	-23.71	PASS
BAND 30	5MHz	16QAM	27735	25RB#0	-31.82	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	-53.66	PASS
BAND 30	10MHz	QPSK	27710	1RB#49	-33.32	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	-32.57	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	-52.81	PASS
BAND 30	10MHz	64QAM	27710	1RB#49	-33.94	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	-33.47	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	-53.29	PASS
BAND 30	10MHz	16QAM	27710	1RB#49	-34.86	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	-34.78	PASS



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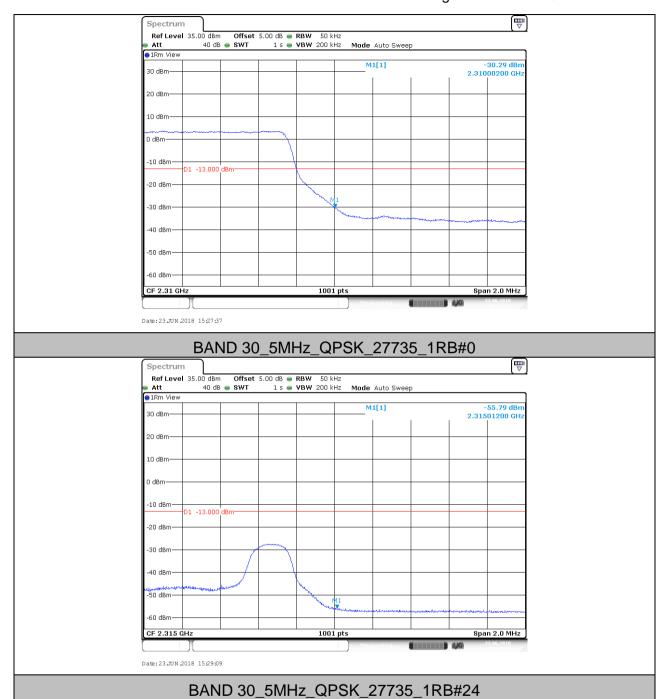
5.2. Test Plots





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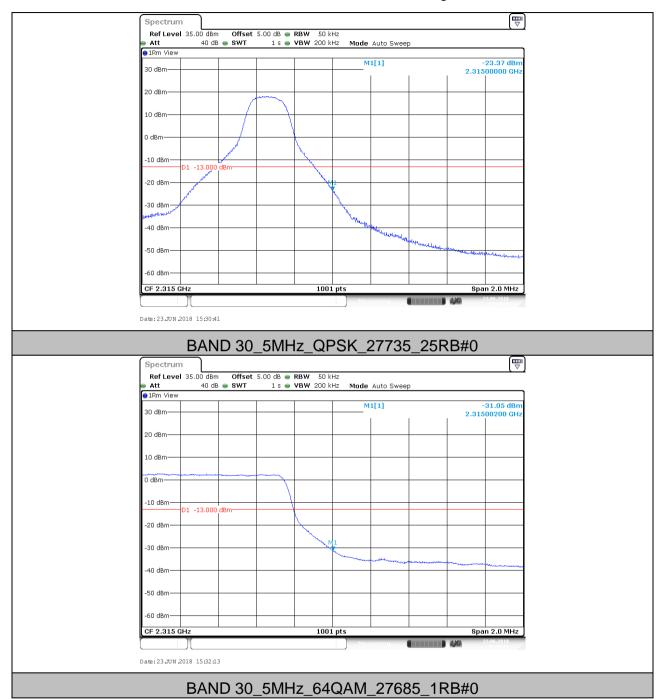
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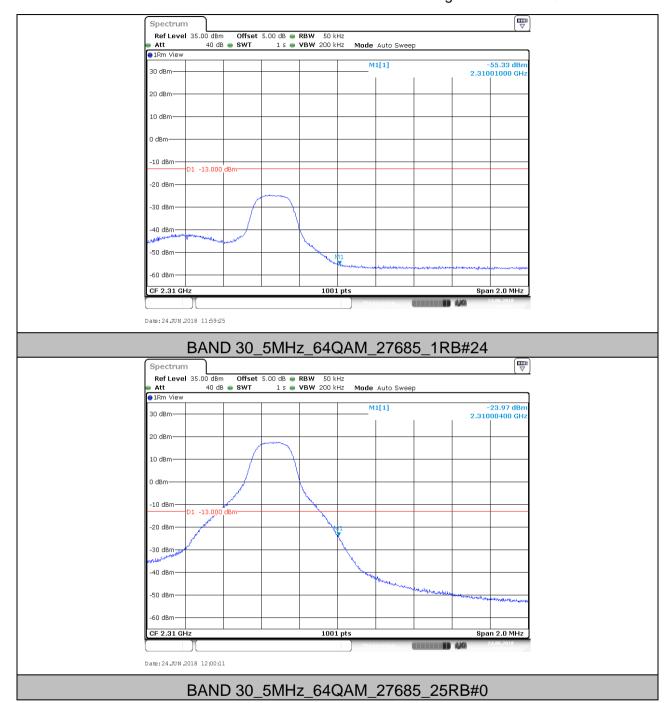
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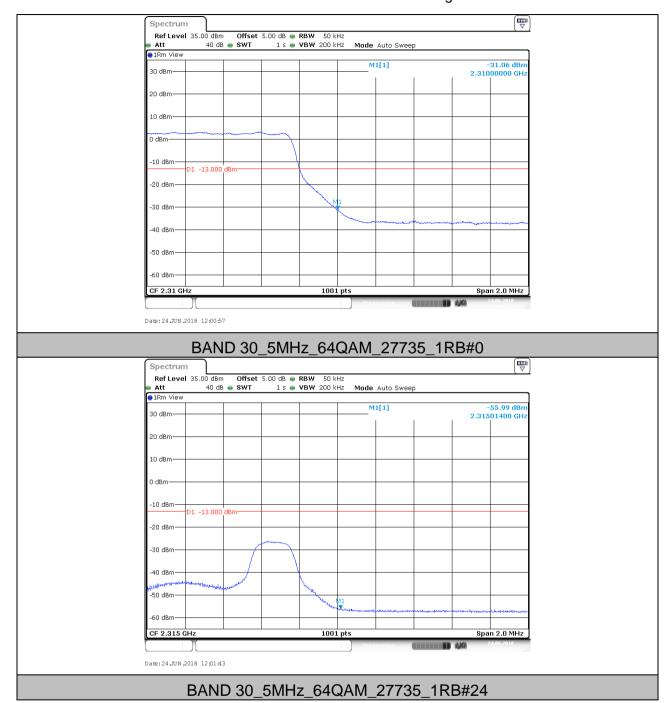
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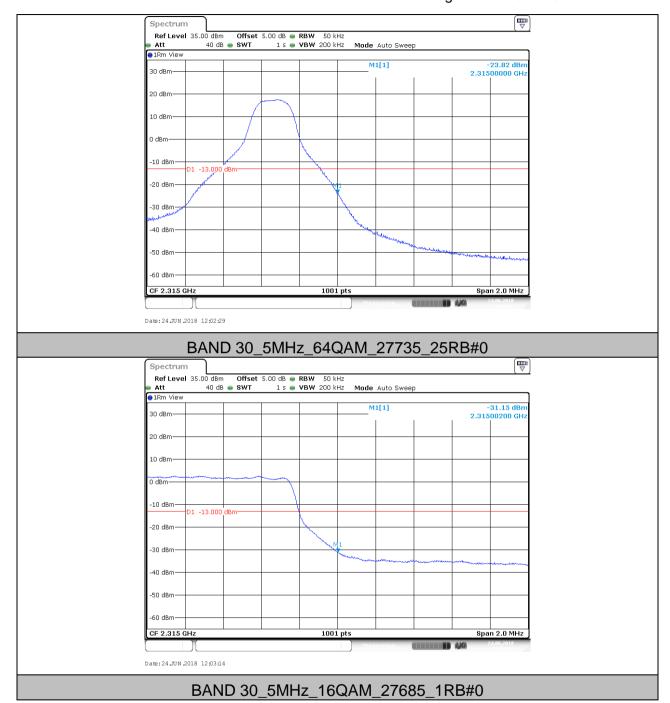
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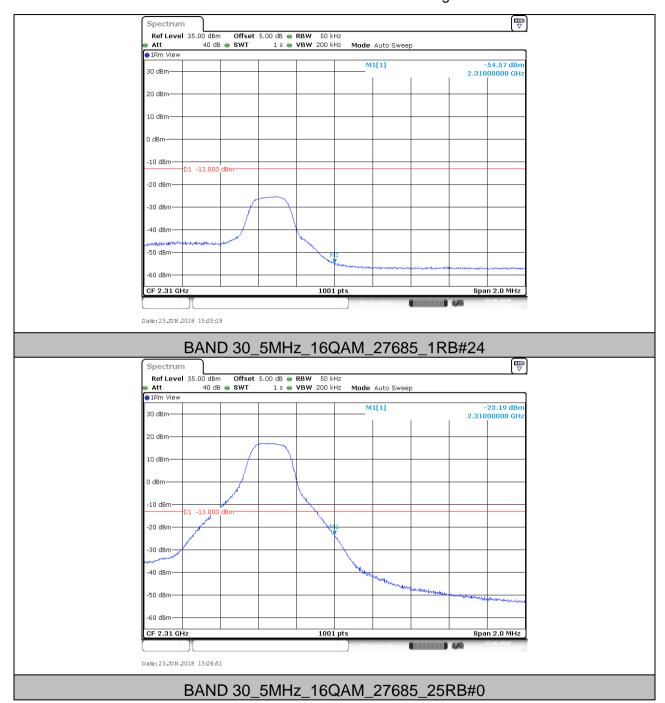
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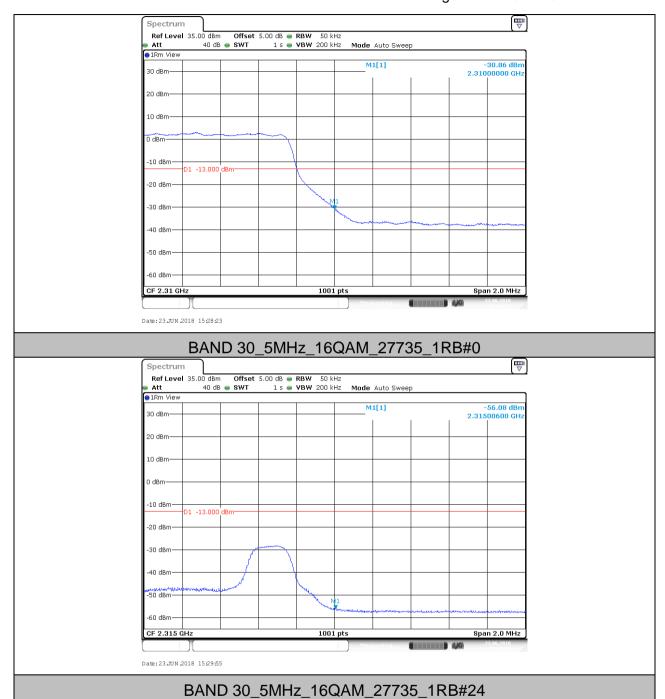
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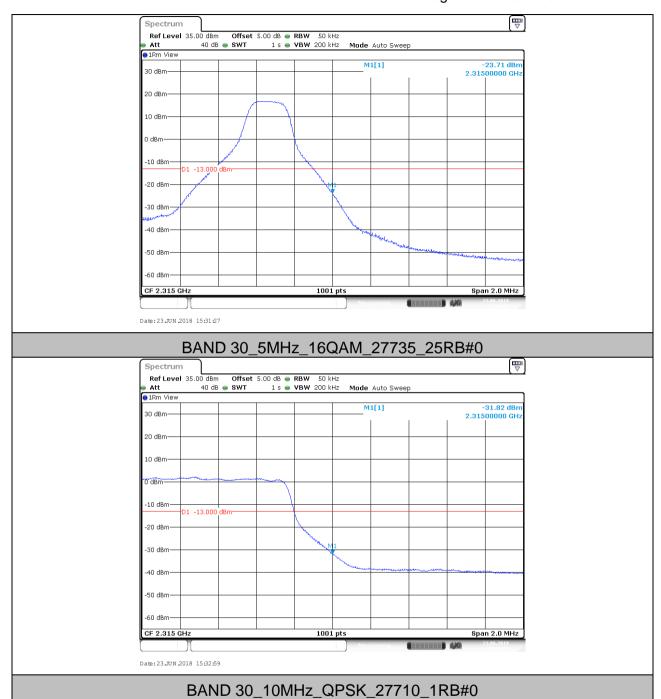
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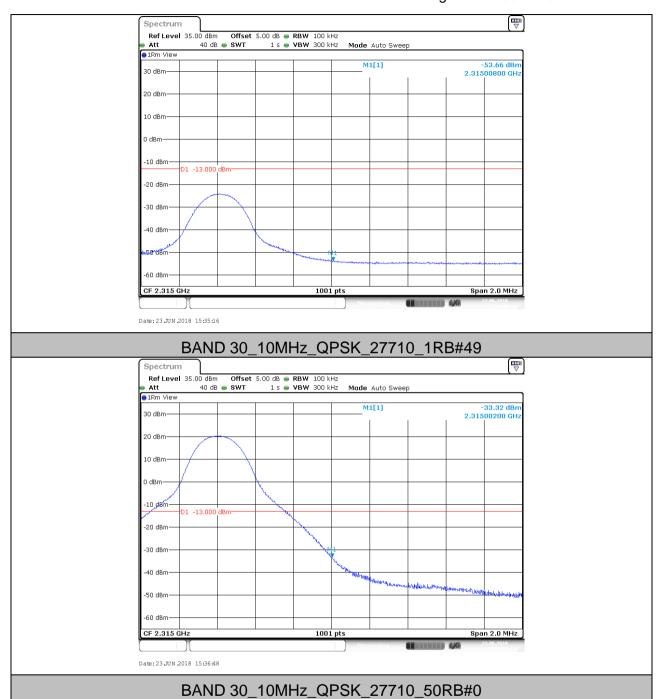
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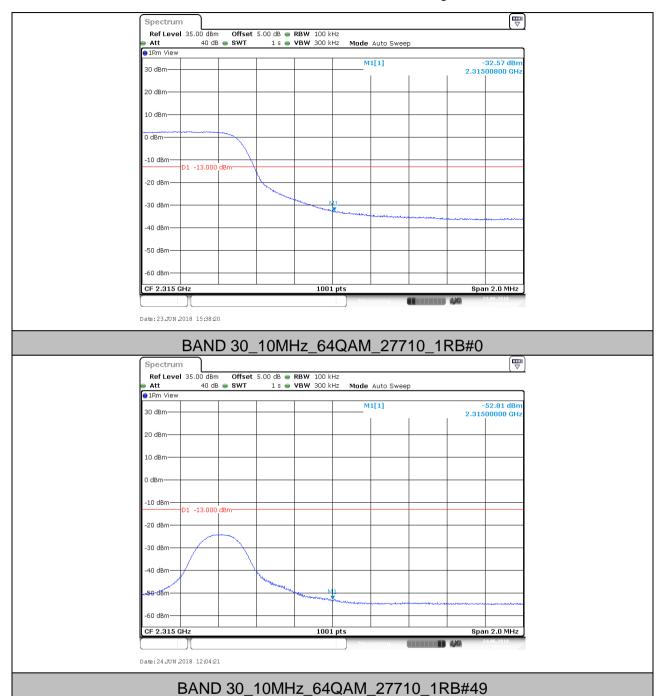
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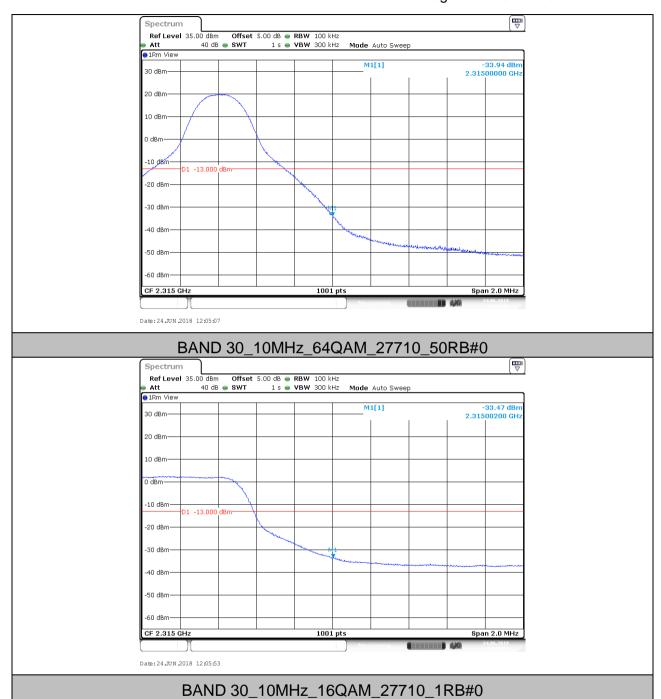
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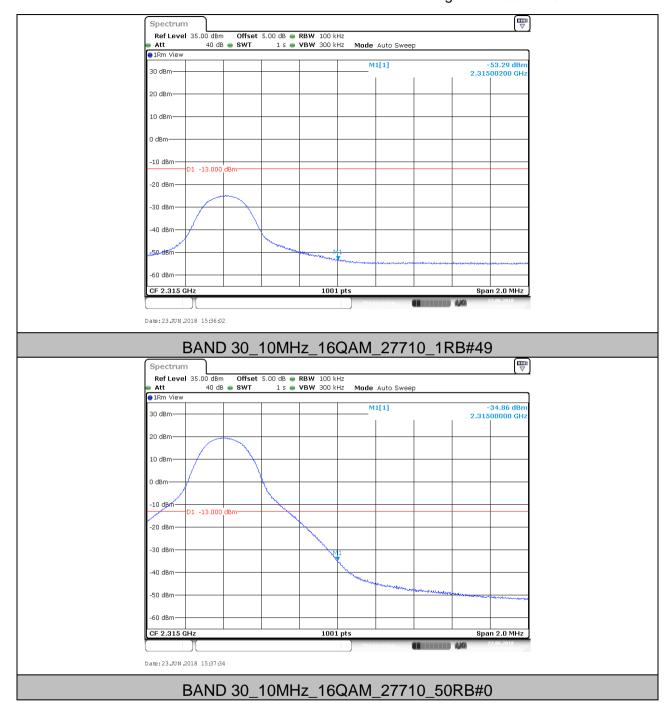
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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowBAND signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k = 4 * (Span / RBW) with k = 4 * (Span / RBW)

6.1. Test Result

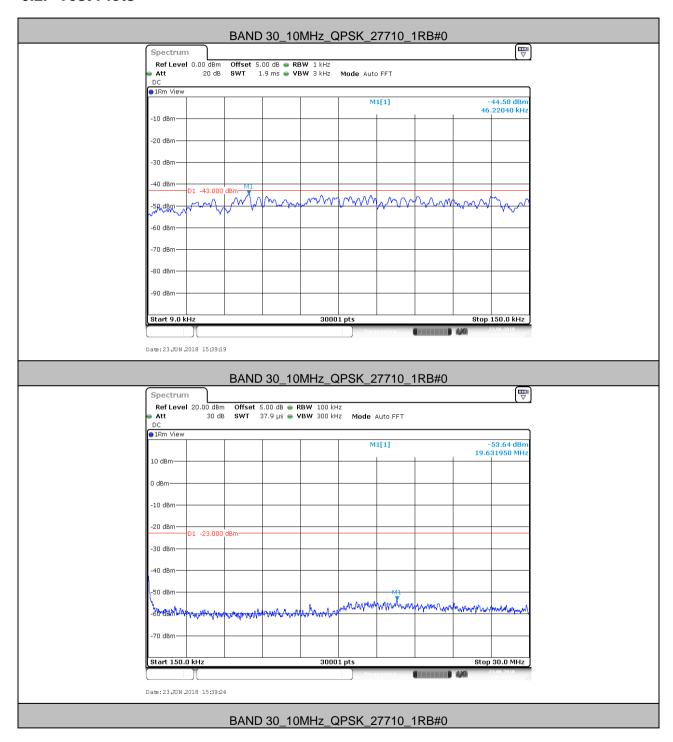
BAND	Bondwidth	Bandwidth Modulation		RB	Frequency	Result	Vardiet
DAIND	Danawiain	iviodulation	Channel	Configuration	Range	(dBm)	Verdict
BAND 30	10MHz	QPSK	27710	1RB#0	Range1:0.009~0.15MHz	-44.58	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	Range2:0.15~30MHz	-53.64	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	Range3:30~1000MHz	-40.81	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	Range4:1000~5000MHz	-50.42	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	Range5:5000~12000MHz	-49.52	PASS
BAND 30	10MHz	QPSK	27710	1RB#0	Range6:12000~18000MHz	-49.62	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range1:0.009~0.15MHz	-44.11	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range2:0.15~30MHz	-53.91	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range3:30~1000MHz	-44.7	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range4:1000~5000MHz	-49.76	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range5:5000~12000MHz	-49.5	PASS
BAND 30	10MHz	64QAM	27710	1RB#0	Range6:12000~18000MHz	-49.57	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range1:0.009~0.15MHz	-43.8	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range2:0.15~30MHz	-52.74	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range3:30~1000MHz	-44.32	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range4:1000~5000MHz	-50.56	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range5:5000~12000MHz	-49.49	PASS
BAND 30	10MHz	16QAM	27710	1RB#0	Range6:12000~18000MHz	-49.65	PASS



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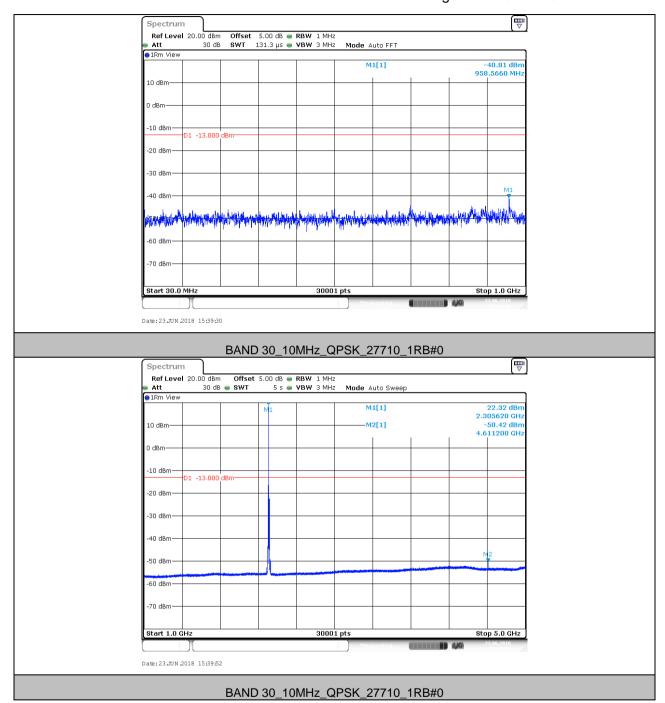
6.2. Test Plots





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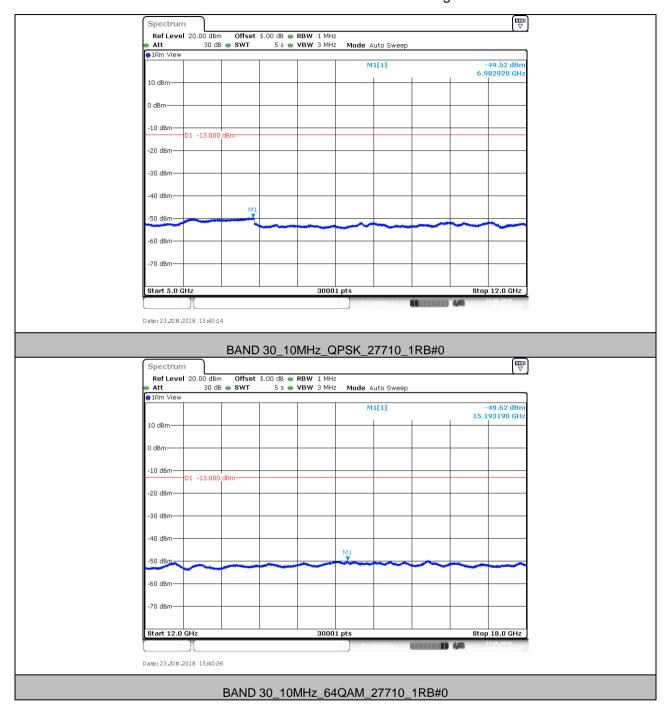
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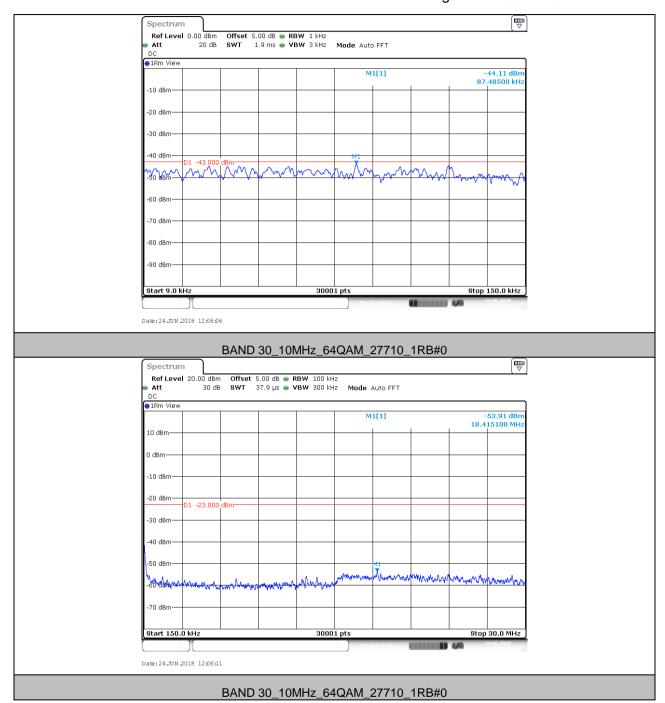
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Report No.: SZEM180500453601

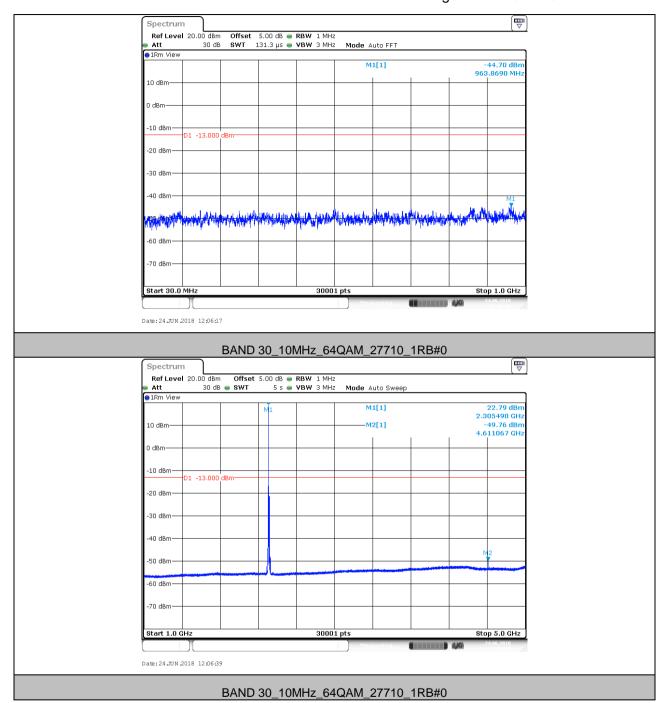
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Report No.: SZEM180500453601

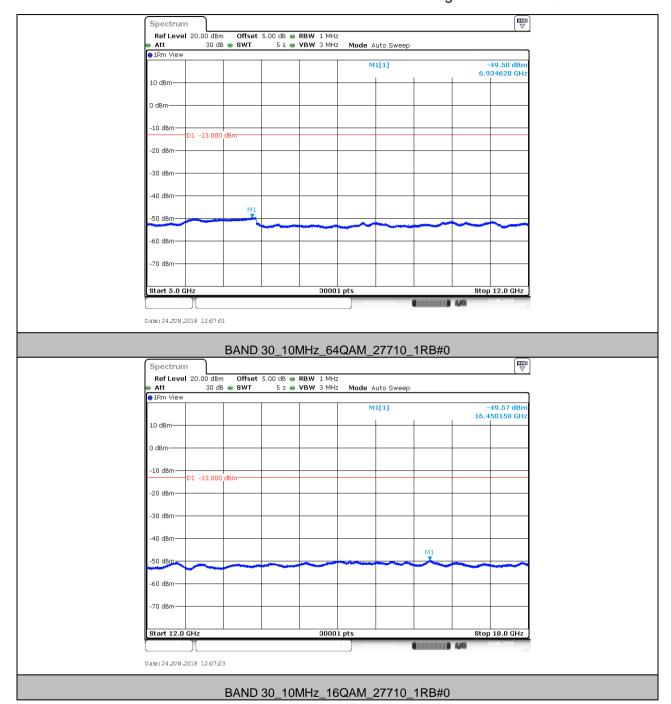
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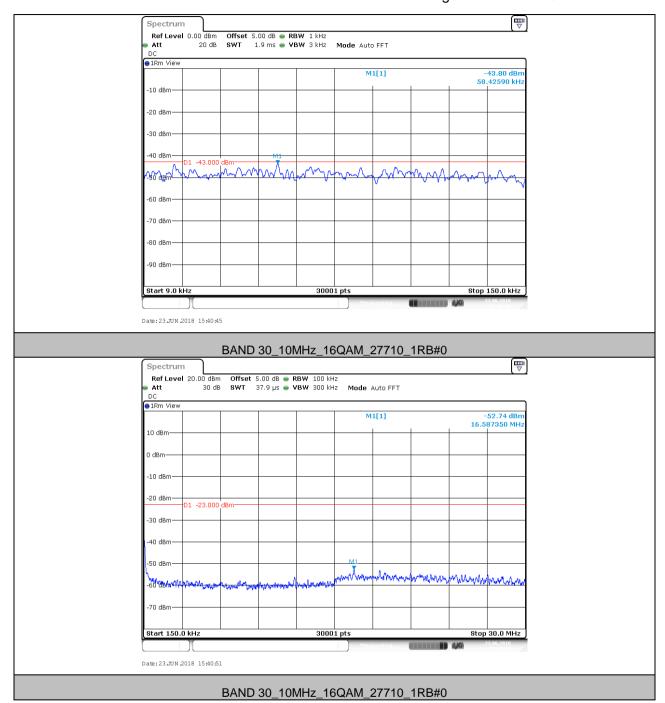
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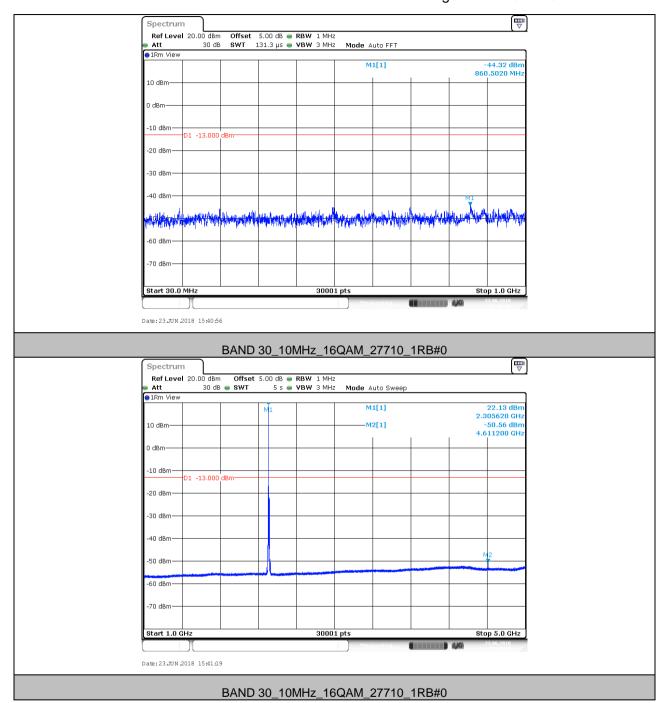
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Report No.: SZEM180500453601

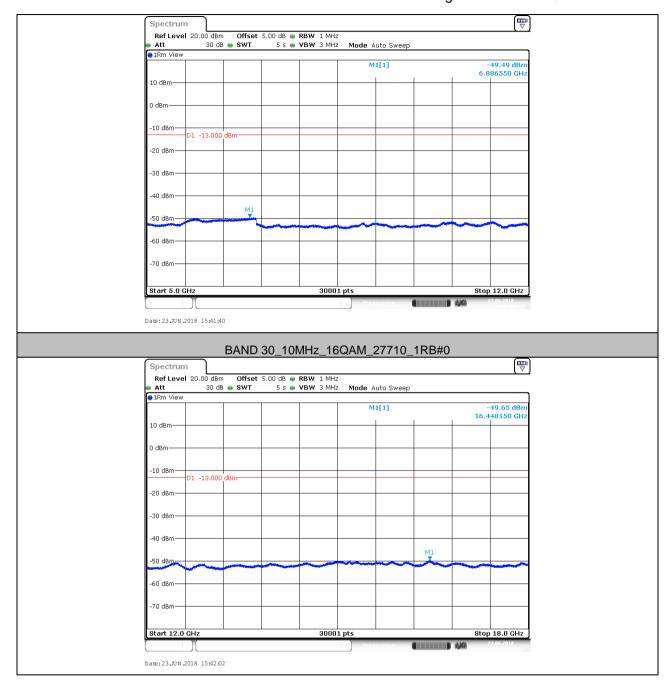
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test BAND = LTE BAND 30

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = MCH

7.1.1.1.1	rest Charmer - W			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.350000	-75.08	-40.00	35.08	Vertical
185.450000	-80.44	-40.00	40.44	Vertical
546.158333	-80.68	-40.00	40.68	Vertical
4611.025000	-60.55	-40.00	20.55	Vertical
6916.575000	-57.60	-40.00	17.60	Vertical
9222.450000	-59.80	-40.00	19.80	Vertical
62.700000	-76.76	-40.00	36.76	Horizontal
161.450000	-72.36	-40.00	32.36	Horizontal
238.000000	-69.34	-40.00	29.34	Horizontal
4611.025000	-66.91	-40.00	26.91	Horizontal
6149.250000	-65.60	-40.00	25.60	Horizontal
9222.450000	-61.39	-40.00	21.39	Horizontal

..NOTE:

¹⁾ The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

²⁾ We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8 Frequency Stability

8.1. Frequency Vs Voltage

	Voltage												
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
BAND 30	10MHz	QPSK	27710	50RB#0	VL	NT	-2.90	-0.001255	±2.5	PASS			
BAND 30	10MHz	QPSK	27710	50RB#0	VN	NT	-3.00	-0.001299	±2.5	PASS			
BAND 30	10MHz	QPSK	27710	50RB#0	VH	NT	-5.70	-0.002468	±2.5	PASS			
BAND 30	10MHz	64QAM	27710	50RB#0	VL	NT	-1.10	-0.000476	±2.5	PASS			
BAND 30	10MHz	64QAM	27710	50RB#0	VN	NT	-5.30	-0.002294	±2.5	PASS			
BAND 30	10MHz	64QAM	27710	50RB#0	VH	NT	1.50	0.000649	±2.5	PASS			
BAND 30	10MHz	16QAM	27710	50RB#0	VL	NT	-4.20	-0.001818	±2.5	PASS			
BAND 30	10MHz	16QAM	27710	50RB#0	VN	NT	-3.50	-0.001515	±2.5	PASS			
BAND 30	10MHz	16QAM	27710	50RB#0	VH	NT	-3.80	-0.001645	±2.5	PASS			

8.2. Frequency Vs Temperature

				Ten	nperature					
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND 30	10MHz	QPSK	27710	50RB#0	NV	-30	-3.90	-0.001688	±2.5	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	NV	-20	-4.10	-0.001775	±2.5	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	NV	0	-1.70	-0.000736	±2.5	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	NV	10	-5.30	-0.002294	±2.5	PASS
BAND 30	10MHz	QPSK	27710	50RB#0	NV	20	-2.80	-0.001212	±2.5	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	NV	-30	-2.30	-0.000996	±2.5	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	NV	-20	0.90	0.000390	±2.5	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	NV	0	-3.40	-0.001472	±2.5	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	NV	10	3.70	0.001602	±2.5	PASS
BAND 30	10MHz	64QAM	27710	50RB#0	NV	20	-5.10	-0.002208	±2.5	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	NV	-30	-4.90	-0.002121	±2.5	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	NV	-20	-1.80	-0.000779	±2.5	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	NV	0	-5.10	-0.002208	±2.5	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	NV	10	-4.90	-0.002121	±2.5	PASS
BAND 30	10MHz	16QAM	27710	50RB#0	NV	20	-5.00	-0.002165	±2.5	PASS

The End