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**D1. CONDUCTED OUTPUT POWER**

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.35	23.52	23.72
1.4	1	2		23.12	23.23	23.51
1.4	1	5		22.92	23.01	23.28
1.4	3	0		22.68	22.75	23.03
1.4	3	1		22.46	22.50	22.74
1.4	3	2		22.18	22.28	22.48
1.4	6	0		21.94	21.98	22.19
1.4	1	0	16-QAM	23.15	23.28	23.52
1.4	1	2		22.94	23.02	23.31
1.4	1	5		22.71	22.74	23.03
1.4	3	0		22.43	22.53	22.83
1.4	3	1		22.16	22.32	22.59
1.4	3	2		21.95	22.02	22.31
1.4	6	0		21.69	21.74	22.04
3	1	0	QPSK	23.55	23.65	23.82
3	1	7		23.34	23.42	23.60
3	1	14		23.10	23.18	23.37
3	8	0		22.82	22.91	23.08
3	8	4		22.55	22.68	22.84
3	8	7		22.27	22.40	22.59
3	15	0		21.98	22.17	22.38
3	1	0	16-QAM	23.29	23.36	23.52
3	1	7		23.08	23.13	23.28
3	1	14		22.83	22.87	23.05
3	8	0		22.63	22.57	22.82
3	8	4		22.34	22.29	22.56
3	8	7		22.13	22.00	22.32
3	15	0		21.93	21.76	22.03



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.68	23.75	23.92
5	1	12		23.44	23.47	23.63
5	1	24		23.17	23.26	23.41
5	12	0		22.96	22.97	23.16
5	12	6		22.70	22.69	22.90
5	12	11		22.44	22.45	22.70
5	25	0		22.16	22.22	22.46
5	1	0	16-QAM	23.46	23.46	23.69
5	1	12		23.23	23.24	23.45
5	1	24		22.97	22.99	23.21
5	12	0		22.70	22.73	22.95
5	12	6		22.46	22.45	22.70
5	12	11		22.21	22.20	22.45
5	25	0		21.93	21.97	22.18
10	1	0	QPSK	23.89	23.95	23.99
10	1	24		23.62	23.72	23.70
10	1	49		23.34	23.44	23.48
10	25	0		23.05	23.15	23.26
10	25	12		22.83	22.88	23.04
10	25	24		22.58	22.59	22.75
10	50	0		22.34	22.37	22.55
10	1	0	16-QAM	23.59	23.68	23.77
10	1	24		23.34	23.42	23.49
10	1	49		23.05	23.17	23.26
10	25	0		22.77	22.89	22.97
10	25	12		22.52	22.64	22.76
10	25	24		22.31	22.34	22.49
10	50	0		22.04	22.12	22.27



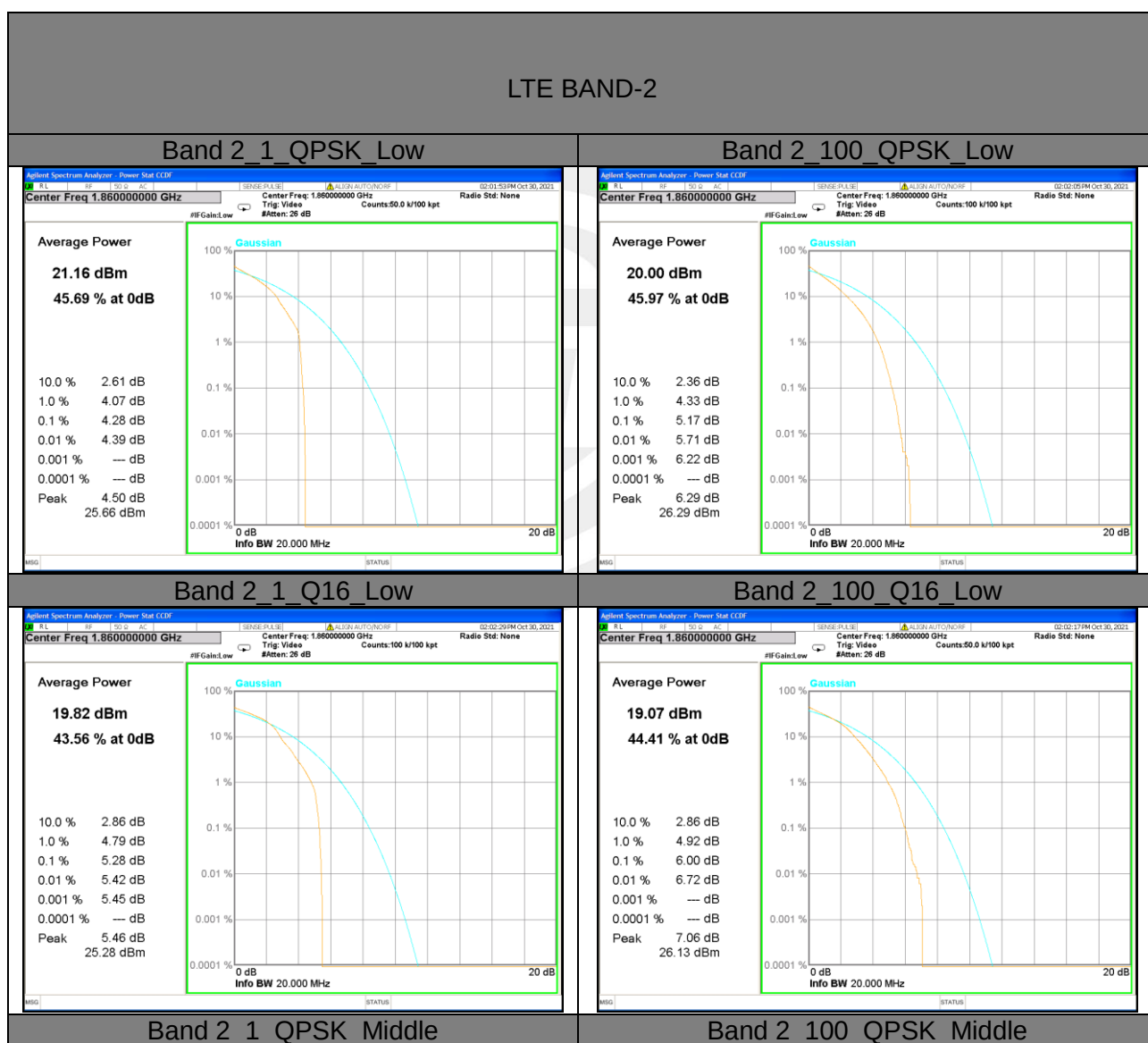
LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.02	24.12	24.23
15	1	37		23.79	23.90	23.95
15	1	74		23.57	23.60	23.71
15	36	0		23.29	23.33	23.46
15	36	18		23.04	23.08	23.16
15	36	39		22.78	22.81	22.92
15	75	0		22.53	22.60	22.72
15	1	0	16-QAM	23.79	23.83	23.98
15	1	38		23.56	23.55	23.74
15	1	75		23.34	23.32	23.49
15	36	0		23.12	23.07	23.27
15	36	18		22.91	22.82	23.02
15	36	39		22.69	22.58	22.75
15	75	0		22.42	22.35	22.52
20	1	0	QPSK	24.52	24.62	24.86
20	1	49		24.31	24.41	24.63
20	1	99		24.04	24.15	24.37
20	50	0		23.74	23.88	24.16
20	50	24		23.49	23.62	23.91
20	50	49		23.26	23.35	23.64
20	100	0		23.02	23.11	23.42
20	1	0	16-QAM	24.27	24.40	24.63
20	1	49		24.01	24.12	24.38
20	1	99		23.72	23.89	24.14
20	50	0		23.51	23.67	23.90
20	50	24		23.31	23.46	23.63
20	50	49		23.03	23.23	23.40
20	100	0		22.75	22.97	23.18



D2. PEAK-TO-AVERAGE RADIO

LTE Band 2 PAR [dBm]					
BW [MHz]	RB Size	Modulation	Lowest	Middle	Highest
			P-A	P-A	P-A
20	1	QPSK	4.28	4.22	4.57
20	100		5.17	5.07	5.22
20	1	16-QAM	5.28	5.32	5.26
20	100		6	5.95	6.09
Limit			≤13dB		

LTE BAND-2



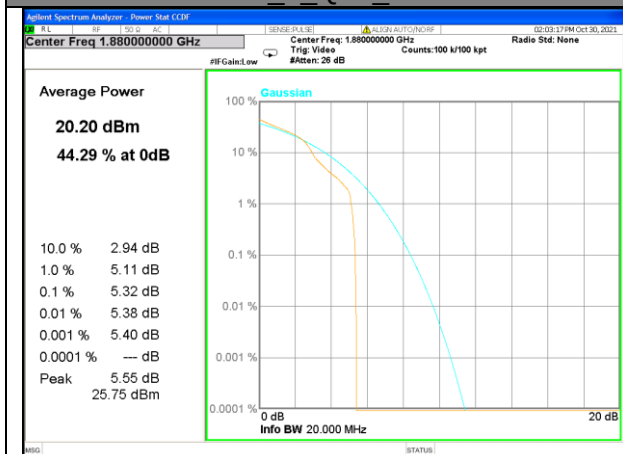




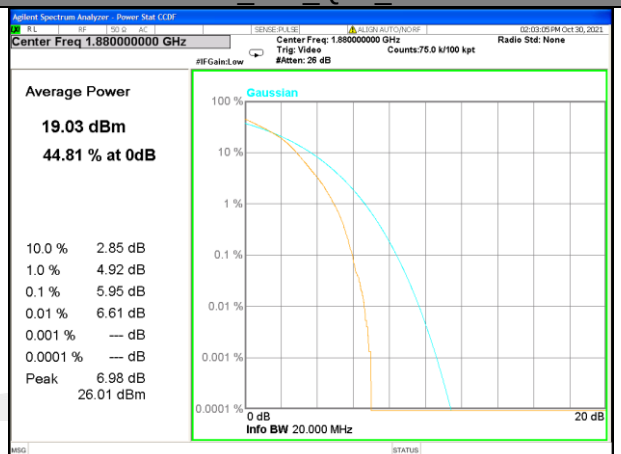
LTE BAND-2

LTE BAND-2

Band 2_1_Q16_Middle



Band 2_100_Q16_Middle



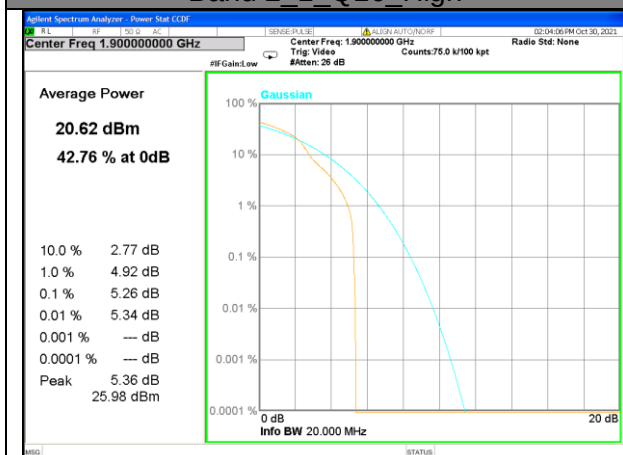
Band 2_1_QPSK_High



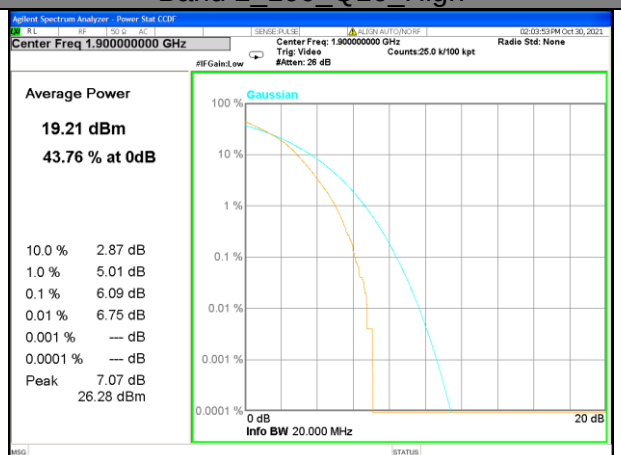
Band 2_100_QPSK_High



Band 2_1_Q16_High



Band 2_100_Q16_High



**D3. TRANSMITTER RADIATED POWER (EIRP/ERP)**

Radiated Power (EIRP) for LTE Band 2 / 1.4M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	12.52	2.37	10.40	20.55	Horizontal	Pass
	1	0	Middle	12.84	2.39	10.42	20.87	Horizontal	Pass
	1	0	Highest	12.9	2.40	10.44	20.94	Horizontal	Pass
	1	0	Lowest	13.95	2.37	10.40	21.98	Vertical	Pass
	1	0	Middle	14.23	2.39	10.42	22.26	Vertical	Pass
	1	0	Highest	14.29	2.40	10.44	22.33	Vertical	Pass
16QAM	1	0	Lowest	12.51	2.37	10.40	20.54	Horizontal	Pass
	1	0	Middle	12.4	2.39	10.42	20.43	Horizontal	Pass
	1	0	Highest	12.68	2.40	10.44	20.72	Horizontal	Pass
	1	0	Lowest	13.82	2.37	10.40	21.85	Vertical	Pass
	1	0	Middle	13.87	2.39	10.42	21.90	Vertical	Pass
	1	0	Highest	14.16	2.40	10.44	22.20	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for LTE Band 2 / 3M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	12.87	2.37	10.40	20.90	Horizontal	Pass
	1	0	Middle	13.06	2.39	10.42	21.09	Horizontal	Pass
	1	0	Highest	13.1	2.40	10.44	21.14	Horizontal	Pass
	1	0	Lowest	14.24	2.37	10.40	22.27	Vertical	Pass
	1	0	Middle	14.4	2.39	10.42	22.43	Vertical	Pass
	1	0	Highest	14.54	2.40	10.44	22.58	Vertical	Pass
16QAM	1	0	Lowest	12.47	2.37	10.40	20.50	Horizontal	Pass
	1	0	Middle	12.62	2.39	10.42	20.65	Horizontal	Pass
	1	0	Highest	12.85	2.40	10.44	20.89	Horizontal	Pass
	1	0	Lowest	13.94	2.37	10.40	21.97	Vertical	Pass
	1	0	Middle	14.07	2.39	10.42	22.10	Vertical	Pass
	1	0	Highest	14.23	2.40	10.44	22.27	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for LTE Band 2 / 5M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	12.95	2.37	10.40	20.98	Horizontal	Pass
	1	0	Middle	13.18	2.39	10.42	21.21	Horizontal	Pass
	1	0	Highest	13.36	2.40	10.44	21.40	Horizontal	Pass
	1	0	Lowest	14.26	2.37	10.40	22.29	Vertical	Pass
	1	0	Middle	14.49	2.39	10.42	22.52	Vertical	Pass
	1	0	Highest	14.68	2.40	10.44	22.72	Vertical	Pass
16QAM	1	0	Lowest	12.76	2.37	10.40	20.79	Horizontal	Pass
	1	0	Middle	12.6	2.39	10.42	20.63	Horizontal	Pass
	1	0	Highest	13.02	2.40	10.44	21.06	Horizontal	Pass
	1	0	Lowest	14.17	2.37	10.40	22.20	Vertical	Pass
	1	0	Middle	14.09	2.39	10.42	22.12	Vertical	Pass
	1	0	Highest	14.42	2.40	10.44	22.46	Vertical	Pass
Limit	EIRP<2W=33dBm								



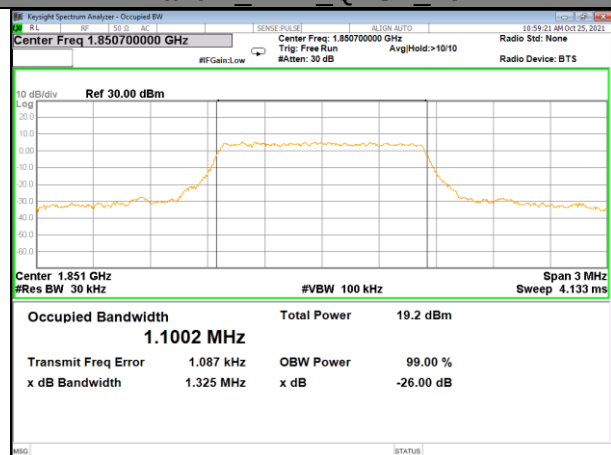
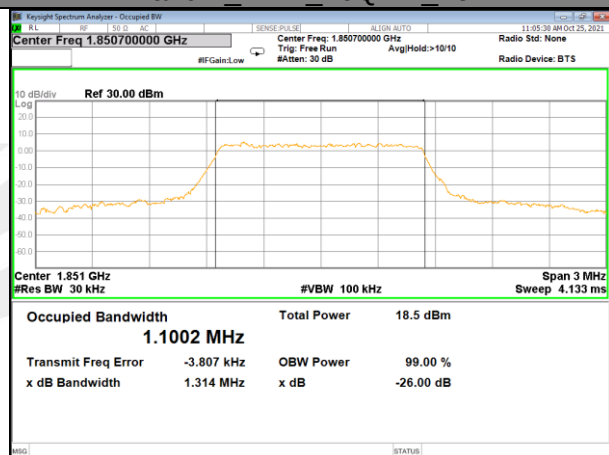
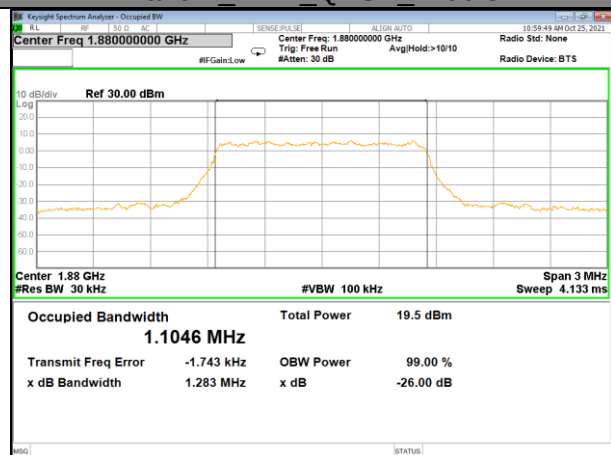
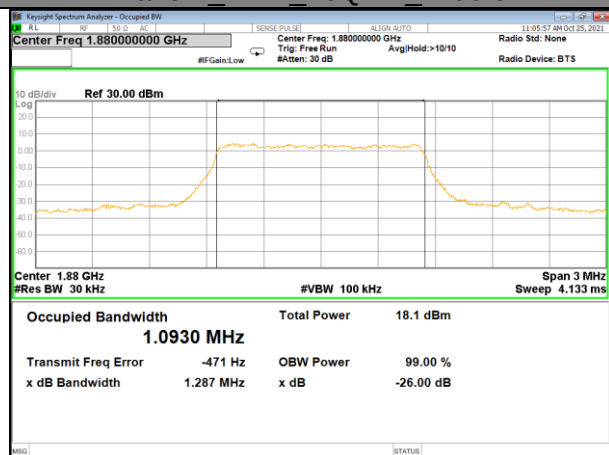
Radiated Power (EIRP) for LTE Band 2 / 10M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	13.1	2.37	10.40	21.13	Horizontal	Pass
	1	0	Middle	13.07	2.39	10.42	21.10	Horizontal	Pass
	1	0	Highest	13.33	2.40	10.44	21.37	Horizontal	Pass
	1	0	Lowest	14.57	2.37	10.40	22.60	Vertical	Pass
	1	0	Middle	14.56	2.39	10.42	22.59	Vertical	Pass
	1	0	Highest	14.7	2.40	10.44	22.74	Vertical	Pass
16QAM	1	0	Lowest	12.82	2.37	10.40	20.85	Horizontal	Pass
	1	0	Middle	13.1	2.39	10.42	21.13	Horizontal	Pass
	1	0	Highest	13.07	2.40	10.44	21.11	Horizontal	Pass
	1	0	Lowest	14.17	2.37	10.40	22.20	Vertical	Pass
	1	0	Middle	14.41	2.39	10.42	22.44	Vertical	Pass
	1	0	Highest	14.4	2.40	10.44	22.44	Vertical	Pass
Limit	EIRP<2W=33dBm								

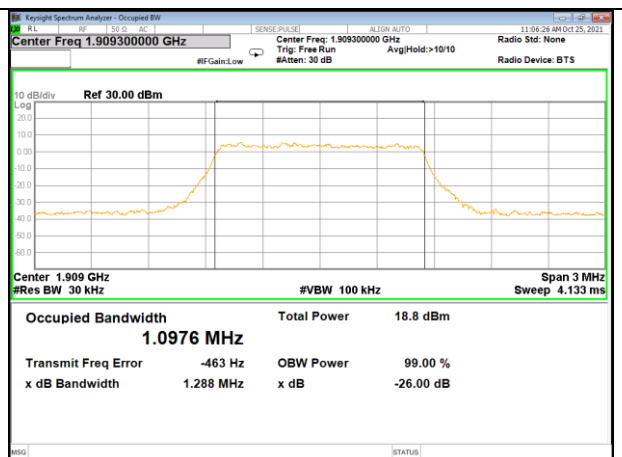
Radiated Power (EIRP) for LTE Band 2 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	13.16	2.37	10.40	21.19	Horizontal	Pass
	1	0	Middle	13.38	2.39	10.42	21.41	Horizontal	Pass
	1	0	Highest	13.51	2.40	10.44	21.55	Horizontal	Pass
	1	0	Lowest	14.65	2.37	10.40	22.68	Vertical	Pass
	1	0	Middle	14.82	2.39	10.42	22.85	Vertical	Pass
	1	0	Highest	14.84	2.40	10.44	22.88	Vertical	Pass
16QAM	1	0	Lowest	13.05	2.37	10.40	21.08	Horizontal	Pass
	1	0	Middle	12.94	2.39	10.42	20.97	Horizontal	Pass
	1	0	Highest	13.29	2.40	10.44	21.33	Horizontal	Pass
	1	0	Lowest	14.4	2.37	10.40	22.43	Vertical	Pass
	1	0	Middle	14.43	2.39	10.42	22.46	Vertical	Pass
	1	0	Highest	14.65	2.40	10.44	22.69	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for LTE Band 2 / 20M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	13.76	2.37	10.40	21.79	Horizontal	Pass
	1	0	Middle	13.92	2.39	10.42	21.95	Horizontal	Pass
	1	0	Highest	14.01	2.40	10.44	22.05	Horizontal	Pass
	1	0	Lowest	15.17	2.37	10.40	23.20	Vertical	Pass
	1	0	Middle	15.22	2.39	10.42	23.25	Vertical	Pass
	1	0	Highest	15.42	2.40	10.44	23.46	Vertical	Pass
16QAM	1	0	Lowest	13.49	2.37	10.40	21.52	Horizontal	Pass
	1	0	Middle	13.5	2.39	10.42	21.53	Horizontal	Pass
	1	0	Highest	13.87	2.40	10.44	21.91	Horizontal	Pass
	1	0	Lowest	14.87	2.37	10.40	22.90	Vertical	Pass
	1	0	Middle	14.98	2.39	10.42	23.01	Vertical	Pass
	1	0	Highest	15.23	2.40	10.44	23.27	Vertical	Pass
Limit	EIRP<2W=33dBm								

**D4. OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26DB BANDWIDTH)**

LTE Band 2 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.1	1.325	1.1046	1.283	1.096	1.294
1.4	16-QAM	1.1	1.314	1.093	1.287	1.098	1.288
3	QPSK	2.6835	2.928	2.69	2.933	2.684	2.926
3	16-QAM	2.682	2.942	2.6839	2.939	2.6797	2.923
5	QPSK	4.522	5.024	4.512	5.017	4.4981	5.003
5	16-QAM	4.527	5.038	4.504	5.004	4.532	5.027
10	QPSK	8.921	9.63	8.923	9.613	8.927	9.742
10	16-QAM	8.927	9.622	8.922	9.636	8.906	9.634
15	QPSK	13.427	14.7	13.409	14.74	13.443	14.74
15	16-QAM	13.461	14.74	13.438	14.65	13.438	14.64
20	QPSK	17.874	19.18	17.831	19.08	17.894	19.45
20	16-QAM	17.878	19.2	17.838	19.13	17.861	19.36

LTE BAND-2**LTE BAND-2****Band 2_1.4M_QPSK_Low****Band 2_1.4M_16QAM_Low****Band 2_1.4M_QPSK_Middle****Band 2_1.4M_16QAM_Middle****Band 2_1.4M_QPSK_High****Band 2_1.4M_16QAM_High**





LTE BAND-2

LTE BAND-2





LTE BAND-2

LTE BAND-2





LTE BAND-2

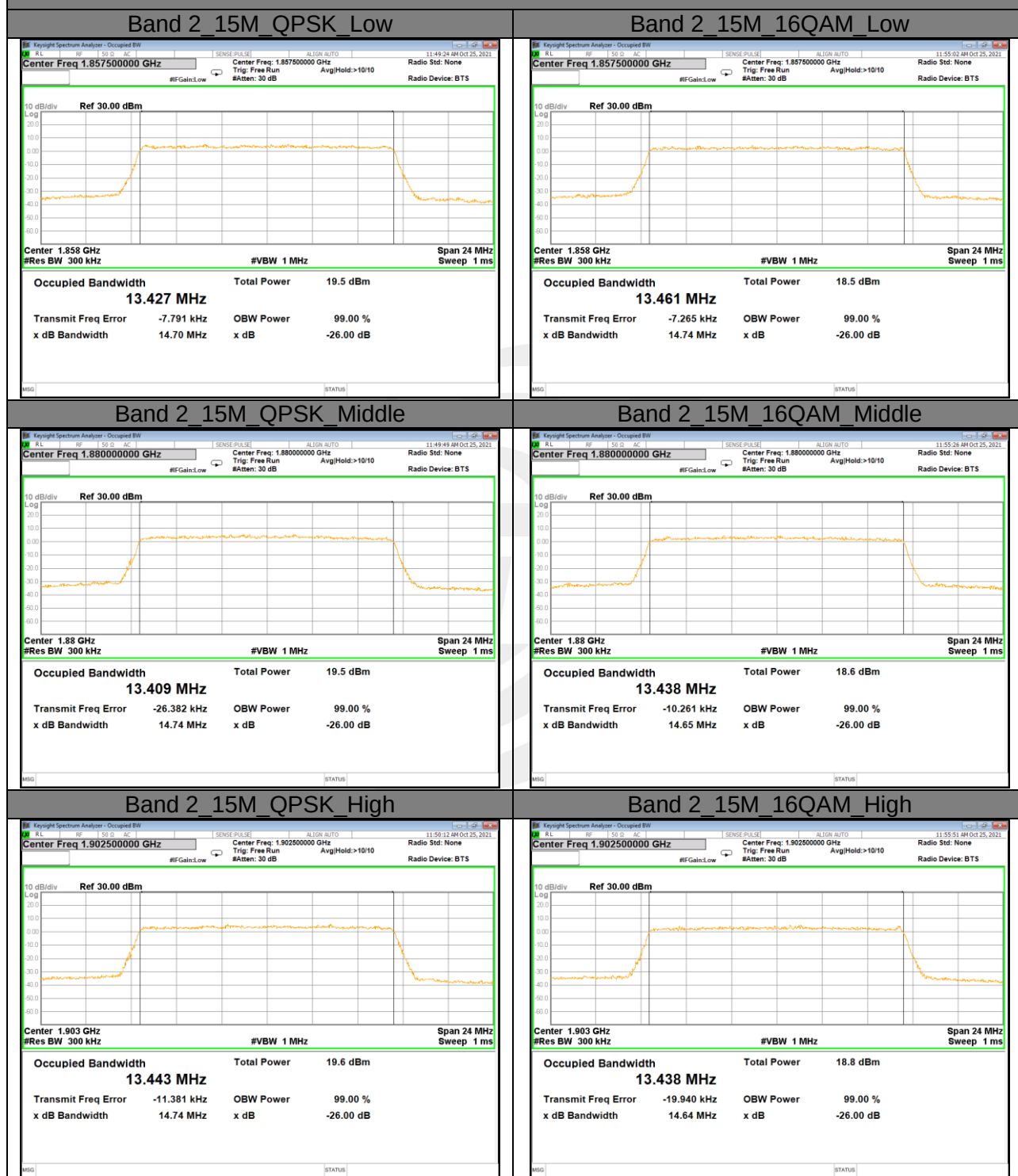
LTE BAND-2





LTE BAND-2

LTE BAND-2

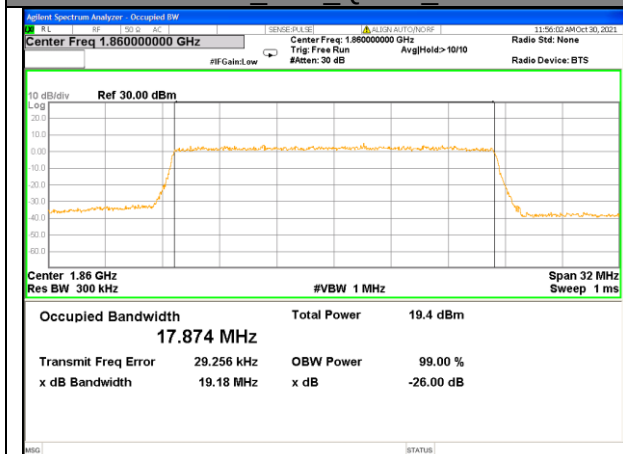




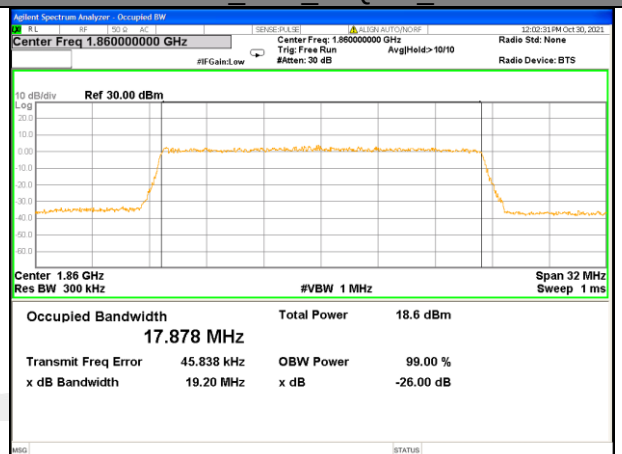
LTE BAND-2

LTE BAND-2

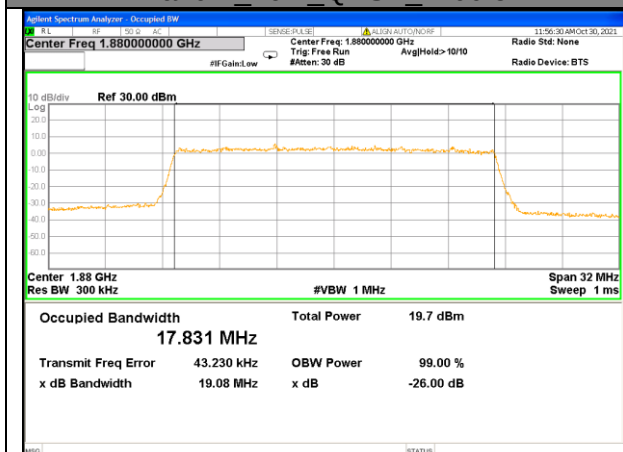
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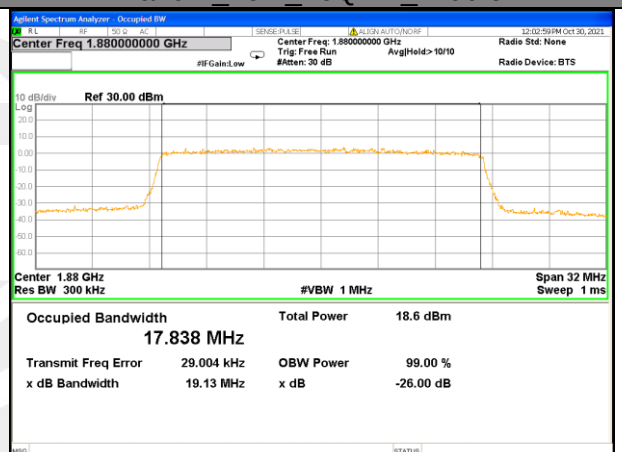
Band 2_20M_16QAM_Low



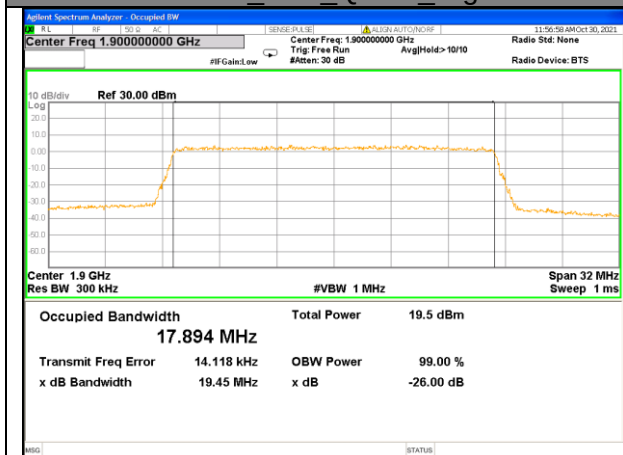
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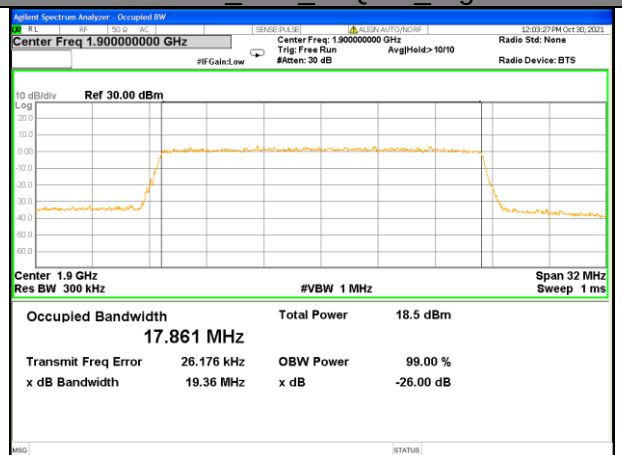
Band 2_20M_16QAM_Middle



Band 2_20M_QPSK_High



Band 2_20M_16QAM_High



**D5. FREQUENCY STABILITY**

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	18.45	0.010	2.5ppm	PASS
40		34.12	0.018		
30		14.48	0.008		
20		14.32	0.008		
10		23.78	0.013		
0		33.72	0.018		
-10		26.49	0.014		
-20		19.78	0.011		
-30		30.72	0.016		
20	Maximum Voltage	30.66	0.016		
20	BEP	20.41	0.011		

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.17	0.019	2.5ppm	PASS
40		20.62	0.011		
30		14.72	0.008		
20		19.32	0.010		
10		30.74	0.016		
0		20.93	0.011		
-10		32.61	0.017		
-20		30.73	0.016		
-30		25.71	0.014		
20	Maximum Voltage	30.74	0.016		
20	BEP	25.68	0.014		



D6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

LTE BAND-2

LTE BAND-2





LTE BAND-2

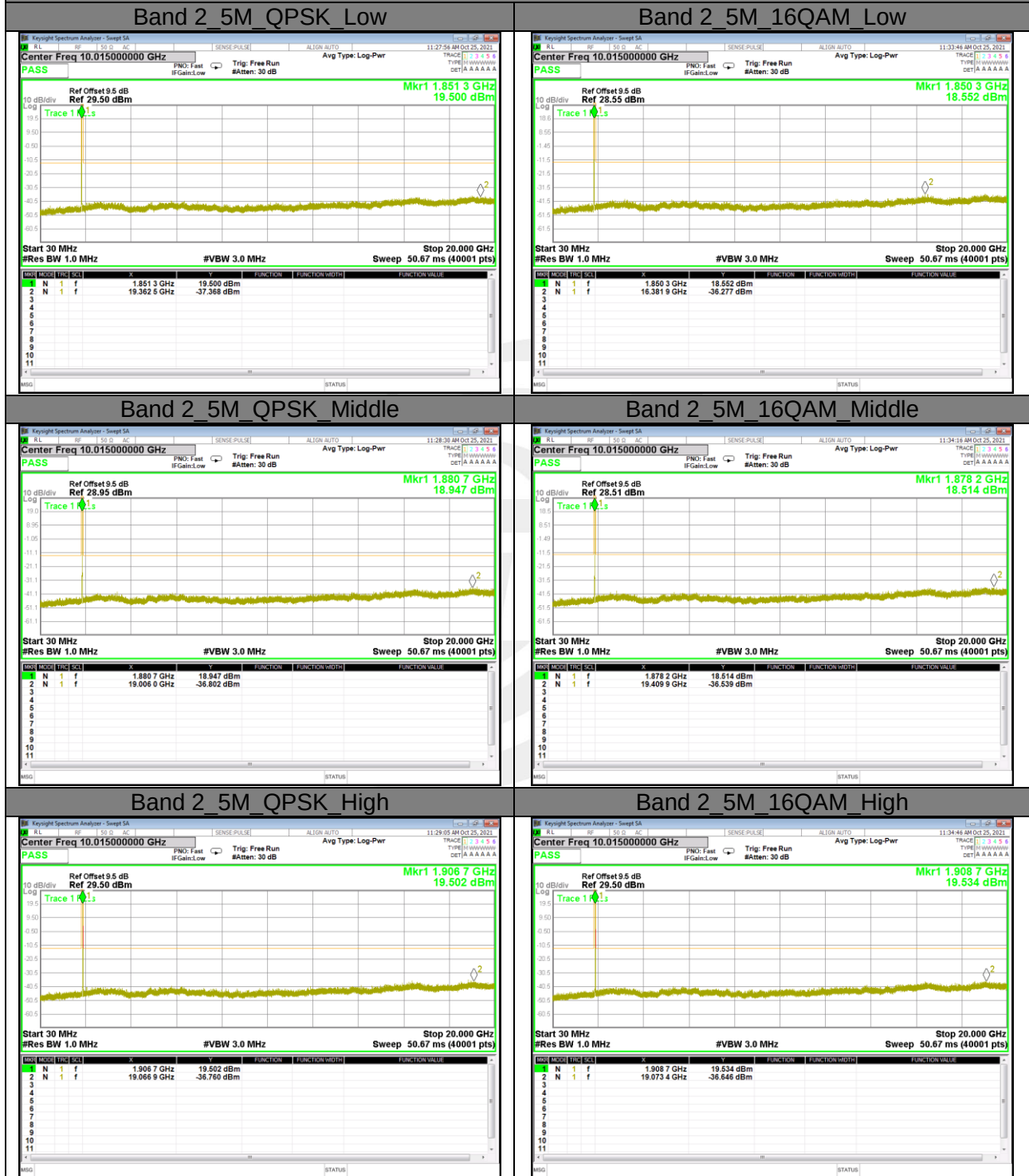
LTE BAND-2





LTE BAND-2

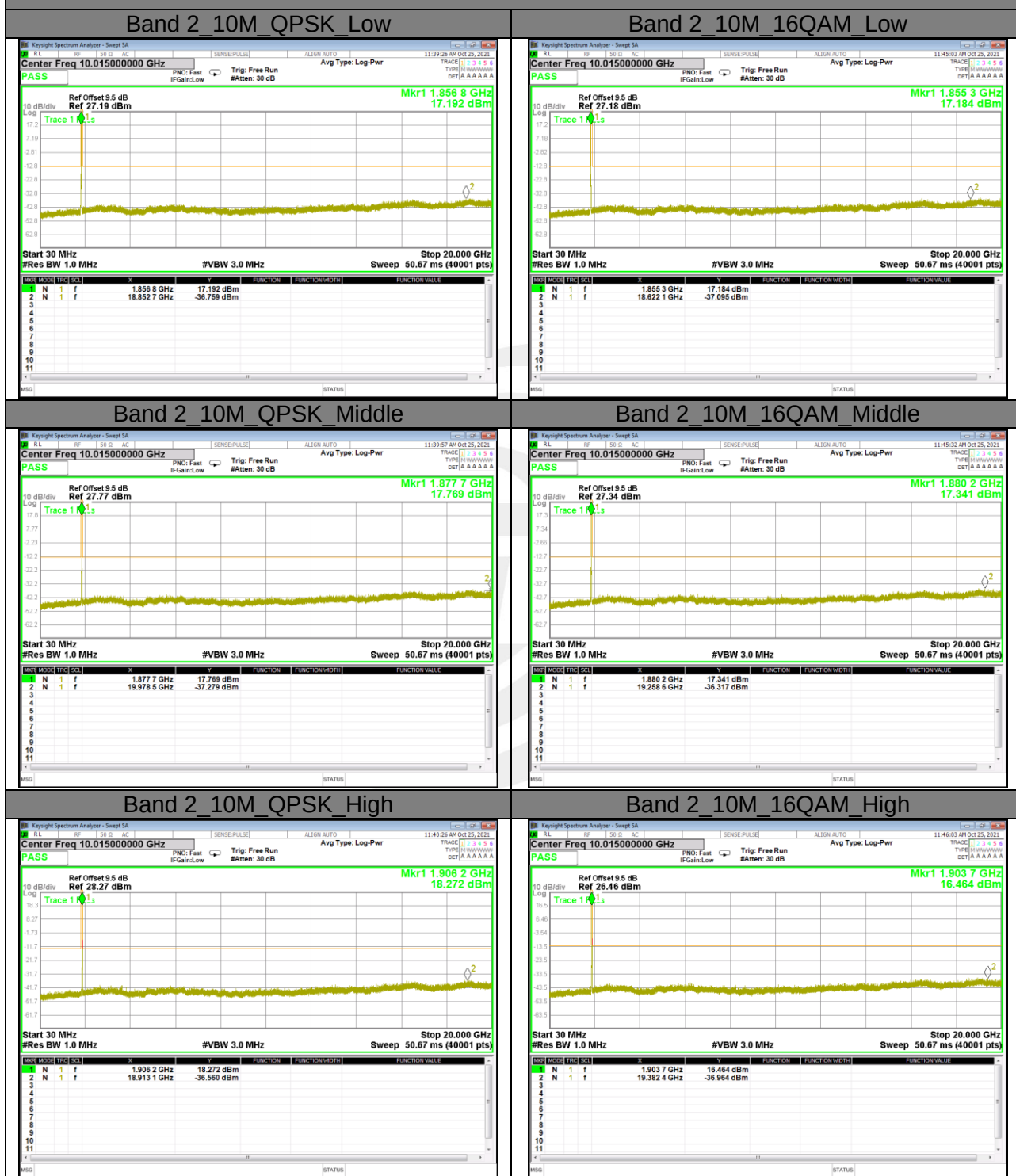
LTE BAND-2





LTE BAND-2

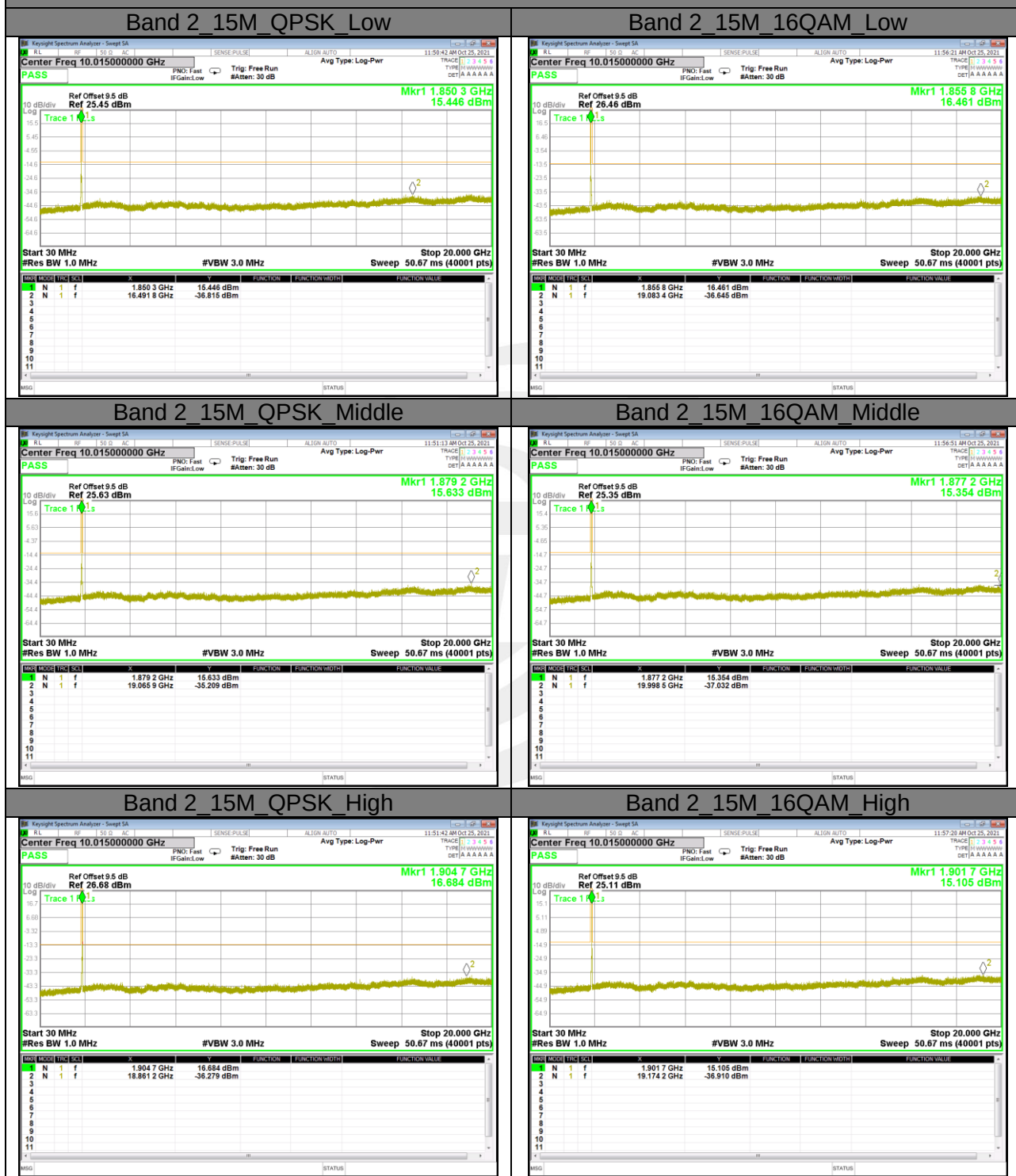
LTE BAND-2





LTE BAND-2

LTE BAND-2





LTE BAND-2

LTE BAND-2

