

RF Power Output and Effective Radiated Power

GSM 1900		Conducted Power (dBm)		
		Channel 512	Channel 661	Channel 810
		1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)
GSM(GMSK)	Results	29.13	29.11	28.95
GPRS (GMSK)	1TXslot	29.15	29.48	29.37
	2TXslots	28.14	28.65	28.61
	3TXslots	26.60	26.76	26.78
	4TXslots	25.53	25.61	25.62
EGPRS (8PSK)	1TXslot	26.01	23.08	26.04
	2TXslots	25.28	25.29	25.21
	3TXslots	23.09	23.09	23.02
	4TXslots	21.75	21.84	21.74

WCDMA Band II		Conducted Power (dBm)		
		Channel/Frequency		
		9262/1852.4	9400/1880	9538/1907.6
RMC	12.2k	23.43	23.31	23.23
HSDPA	Subtest 1	22.89	22.73	22.67
	Subtest 2	22.88	22.75	22.64
	Subtest 3	22.35	22.25	22.16
	Subtest 4	22.36	22.26	22.14
HSUPA	Subtest 1	22.85	22.72	22.62
	Subtest 2	21.84	21.70	21.61
	Subtest 3	22.31	22.18	22.10
	Subtest 4	21.77	21.67	21.58
	Subtest 5	22.78	22.65	22.56
DC-HSDPA	Subtest 1	22.77	22.67	22.57
	Subtest 2	22.76	22.66	22.56
	Subtest 3	22.34	22.15	22.07
	Subtest 4	22.33	22.14	22.06

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
LTE Band 2	1.4	18607	1	#0	QPSK	22.81	PASS
LTE Band 2	1.4	18607	1	#Mid	QPSK	22.96	PASS
LTE Band 2	1.4	18607	1	#Max	QPSK	22.91	PASS
LTE Band 2	1.4	18607	3	#0	QPSK	22.86	PASS
LTE Band 2	1.4	18607	3	#Mid	QPSK	22.94	PASS
LTE Band 2	1.4	18607	3	#Max	QPSK	22.90	PASS
LTE Band 2	1.4	18607	6	#0	QPSK	21.95	PASS
LTE Band 2	1.4	18900	1	#0	QPSK	22.81	PASS
LTE Band 2	1.4	18900	1	#Mid	QPSK	22.80	PASS
LTE Band 2	1.4	18900	1	#Max	QPSK	22.59	PASS
LTE Band 2	1.4	18900	3	#0	QPSK	22.95	PASS
LTE Band 2	1.4	18900	3	#Mid	QPSK	22.61	PASS
LTE Band 2	1.4	18900	3	#Max	QPSK	22.68	PASS
LTE Band 2	1.4	18900	6	#0	QPSK	21.80	PASS
LTE Band 2	1.4	19193	1	#0	QPSK	22.76	PASS
LTE Band 2	1.4	19193	1	#Mid	QPSK	22.77	PASS
LTE Band 2	1.4	19193	1	#Max	QPSK	22.51	PASS
LTE Band 2	1.4	19193	3	#0	QPSK	22.70	PASS
LTE Band 2	1.4	19193	3	#Mid	QPSK	22.57	PASS
LTE Band 2	1.4	19193	3	#Max	QPSK	22.66	PASS
LTE Band 2	1.4	19193	6	#0	QPSK	21.63	PASS
LTE Band 2	3	18615	1	#0	QPSK	22.85	PASS
LTE Band 2	3	18615	1	#Mid	QPSK	22.71	PASS
LTE Band 2	3	18615	1	#Max	QPSK	22.71	PASS
LTE Band 2	3	18615	8	#0	QPSK	21.92	PASS
LTE Band 2	3	18615	8	#Mid	QPSK	21.97	PASS
LTE Band 2	3	18615	8	#Max	QPSK	21.90	PASS
LTE Band 2	3	18615	15	#0	QPSK	21.85	PASS
LTE Band 2	3	18900	1	#0	QPSK	22.71	PASS
LTE Band 2	3	18900	1	#Mid	QPSK	22.65	PASS
LTE Band 2	3	18900	1	#Max	QPSK	22.72	PASS
LTE Band 2	3	18900	8	#0	QPSK	21.76	PASS
LTE Band 2	3	18900	8	#Mid	QPSK	21.78	PASS
LTE Band 2	3	18900	8	#Max	QPSK	21.70	PASS
LTE Band 2	3	18900	15	#0	QPSK	21.62	PASS
LTE Band 2	3	19185	1	#0	QPSK	22.63	PASS
LTE Band 2	3	19185	1	#Mid	QPSK	22.61	PASS
LTE Band 2	3	19185	1	#Max	QPSK	22.72	PASS
LTE Band 2	3	19185	8	#0	QPSK	21.59	PASS
LTE Band 2	3	19185	8	#Mid	QPSK	21.58	PASS

LTE Band 2	3	19185	8	#Max	QPSK	21.62	PASS
LTE Band 2	3	19185	15	#0	QPSK	21.58	PASS
LTE Band 2	5	18625	1	#0	QPSK	22.97	PASS
LTE Band 2	5	18625	1	#Mid	QPSK	22.96	PASS
LTE Band 2	5	18625	1	#Max	QPSK	22.81	PASS
LTE Band 2	5	18625	12	#0	QPSK	21.83	PASS
LTE Band 2	5	18625	12	#Mid	QPSK	21.87	PASS
LTE Band 2	5	18625	12	#Max	QPSK	21.82	PASS
LTE Band 2	5	18625	25	#0	QPSK	21.84	PASS
LTE Band 2	5	18900	1	#0	QPSK	22.78	PASS
LTE Band 2	5	18900	1	#Mid	QPSK	22.50	PASS
LTE Band 2	5	18900	1	#Max	QPSK	22.59	PASS
LTE Band 2	5	18900	12	#0	QPSK	21.72	PASS
LTE Band 2	5	18900	12	#Mid	QPSK	21.69	PASS
LTE Band 2	5	18900	12	#Max	QPSK	21.63	PASS
LTE Band 2	5	18900	25	#0	QPSK	21.58	PASS
LTE Band 2	5	19175	1	#0	QPSK	22.47	PASS
LTE Band 2	5	19175	1	#Mid	QPSK	22.43	PASS
LTE Band 2	5	19175	1	#Max	QPSK	22.44	PASS
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LTE Band 2	5	19175	12	#Mid	QPSK	21.43	PASS
LTE Band 2	5	19175	12	#Max	QPSK	21.52	PASS
LTE Band 2	5	19175	25	#0	QPSK	21.52	PASS
LTE Band 2	10	18650	1	#0	QPSK	22.71	PASS
LTE Band 2	10	18650	1	#Mid	QPSK	22.65	PASS
LTE Band 2	10	18650	1	#Max	QPSK	22.60	PASS
LTE Band 2	10	18650	25	#0	QPSK	21.79	PASS
LTE Band 2	10	18650	25	#Mid	QPSK	21.72	PASS
LTE Band 2	10	18650	25	#Max	QPSK	21.53	PASS
LTE Band 2	10	18650	50	#0	QPSK	21.62	PASS
LTE Band 2	10	18900	1	#0	QPSK	22.76	PASS
LTE Band 2	10	18900	1	#Mid	QPSK	22.52	PASS
LTE Band 2	10	18900	1	#Max	QPSK	22.30	PASS
LTE Band 2	10	18900	25	#0	QPSK	21.67	PASS
LTE Band 2	10	18900	25	#Mid	QPSK	21.65	PASS
LTE Band 2	10	18900	25	#Max	QPSK	21.53	PASS
LTE Band 2	10	18900	50	#0	QPSK	21.62	PASS
LTE Band 2	10	19150	1	#0	QPSK	22.24	PASS
LTE Band 2	10	19150	1	#Mid	QPSK	22.57	PASS
LTE Band 2	10	19150	1	#Max	QPSK	22.38	PASS
LTE Band 2	10	19150	25	#0	QPSK	21.28	PASS
LTE Band 2	10	19150	25	#Mid	QPSK	21.27	PASS
LTE Band 2	10	19150	25	#Max	QPSK	21.49	PASS

LTE Band 2	10	19150	50	#0	QPSK	21.42	PASS
LTE Band 2	15	18675	1	#0	QPSK	22.71	PASS
LTE Band 2	15	18675	1	#Mid	QPSK	22.51	PASS
LTE Band 2	15	18675	1	#Max	QPSK	22.53	PASS
LTE Band 2	15	18675	36	#0	QPSK	21.73	PASS
LTE Band 2	15	18675	36	#Mid	QPSK	21.65	PASS
LTE Band 2	15	18675	36	#Max	QPSK	21.46	PASS
LTE Band 2	15	18675	75	#0	QPSK	21.49	PASS
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LTE Band 2	15	18900	1	#Max	QPSK	22.06	PASS
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LTE Band 2	15	18900	36	#Mid	QPSK	21.58	PASS
LTE Band 2	15	18900	36	#Max	QPSK	21.47	PASS
LTE Band 2	15	18900	75	#0	QPSK	21.42	PASS
LTE Band 2	15	19125	1	#0	QPSK	22.28	PASS
LTE Band 2	15	19125	1	#Mid	QPSK	22.30	PASS
LTE Band 2	15	19125	1	#Max	QPSK	22.50	PASS
LTE Band 2	15	19125	36	#0	QPSK	21.29	PASS
LTE Band 2	15	19125	36	#Mid	QPSK	21.28	PASS
LTE Band 2	15	19125	36	#Max	QPSK	21.35	PASS
LTE Band 2	15	19125	75	#0	QPSK	21.21	PASS
LTE Band 2	20	18700	1	#0	QPSK	22.52	PASS
LTE Band 2	20	18700	1	#Mid	QPSK	22.37	PASS
LTE Band 2	20	18700	1	#Max	QPSK	22.54	PASS
LTE Band 2	20	18700	50	#0	QPSK	21.34	PASS
LTE Band 2	20	18700	50	#Mid	QPSK	21.32	PASS
LTE Band 2	20	18700	50	#Max	QPSK	21.37	PASS
LTE Band 2	20	18700	100	#0	QPSK	21.34	PASS
LTE Band 2	20	18900	1	#0	QPSK	22.69	PASS
LTE Band 2	20	18900	1	#Mid	QPSK	22.61	PASS
LTE Band 2	20	18900	1	#Max	QPSK	22.18	PASS
LTE Band 2	20	18900	50	#0	QPSK	21.60	PASS
LTE Band 2	20	18900	50	#Mid	QPSK	21.56	PASS
LTE Band 2	20	18900	50	#Max	QPSK	21.46	PASS
LTE Band 2	20	18900	100	#0	QPSK	21.44	PASS
LTE Band 2	20	19100	1	#0	QPSK	22.23	PASS
LTE Band 2	20	19100	1	#Mid	QPSK	22.33	PASS
LTE Band 2	20	19100	1	#Max	QPSK	22.33	PASS
LTE Band 2	20	19100	50	#0	QPSK	21.33	PASS
LTE Band 2	20	19100	50	#Mid	QPSK	21.30	PASS
LTE Band 2	20	19100	50	#Max	QPSK	21.29	PASS
LTE Band 2	20	19100	100	#0	QPSK	21.30	PASS

LTE Band 2	1.4	18607	1	#0	QAM16	22.07	PASS
LTE Band 2	1.4	18607	1	#Mid	QAM16	22.22	PASS
LTE Band 2	1.4	18607	1	#Max	QAM16	22.08	PASS
LTE Band 2	1.4	18607	3	#0	QAM16	22.20	PASS
LTE Band 2	1.4	18607	3	#Mid	QAM16	22.19	PASS
LTE Band 2	1.4	18607	3	#Max	QAM16	21.74	PASS
LTE Band 2	1.4	18607	6	#0	QAM16	20.83	PASS
LTE Band 2	1.4	18900	1	#0	QAM16	22.28	PASS
LTE Band 2	1.4	18900	1	#Mid	QAM16	22.58	PASS
LTE Band 2	1.4	18900	1	#Max	QAM16	22.49	PASS
LTE Band 2	1.4	18900	3	#0	QAM16	22.13	PASS
LTE Band 2	1.4	18900	3	#Mid	QAM16	22.13	PASS
LTE Band 2	1.4	18900	3	#Max	QAM16	22.15	PASS
LTE Band 2	1.4	18900	6	#0	QAM16	21.12	PASS
LTE Band 2	1.4	19193	1	#0	QAM16	21.29	PASS
LTE Band 2	1.4	19193	1	#Mid	QAM16	21.52	PASS
LTE Band 2	1.4	19193	1	#Max	QAM16	21.44	PASS
LTE Band 2	1.4	19193	3	#0	QAM16	21.46	PASS
LTE Band 2	1.4	19193	3	#Mid	QAM16	21.45	PASS
LTE Band 2	1.4	19193	3	#Max	QAM16	21.60	PASS
LTE Band 2	1.4	19193	6	#0	QAM16	20.72	PASS
LTE Band 2	3	18615	1	#0	QAM16	21.92	PASS
LTE Band 2	3	18615	1	#Mid	QAM16	22.04	PASS
LTE Band 2	3	18615	1	#Max	QAM16	22.07	PASS
LTE Band 2	3	18615	8	#0	QAM16	20.79	PASS
LTE Band 2	3	18615	8	#Mid	QAM16	20.79	PASS
LTE Band 2	3	18615	8	#Max	QAM16	20.72	PASS
LTE Band 2	3	18615	15	#0	QAM16	20.84	PASS
LTE Band 2	3	18900	1	#0	QAM16	22.39	PASS
LTE Band 2	3	18900	1	#Mid	QAM16	22.14	PASS
LTE Band 2	3	18900	1	#Max	QAM16	22.10	PASS
LTE Band 2	3	18900	8	#0	QAM16	20.84	PASS
LTE Band 2	3	18900	8	#Mid	QAM16	20.84	PASS
LTE Band 2	3	18900	8	#Max	QAM16	20.86	PASS
LTE Band 2	3	18900	15	#0	QAM16	20.66	PASS
LTE Band 2	3	19185	1	#0	QAM16	21.71	PASS
LTE Band 2	3	19185	1	#Mid	QAM16	21.27	PASS
LTE Band 2	3	19185	1	#Max	QAM16	21.15	PASS
LTE Band 2	3	19185	8	#0	QAM16	20.59	PASS
LTE Band 2	3	19185	8	#Mid	QAM16	20.60	PASS
LTE Band 2	3	19185	8	#Max	QAM16	20.57	PASS
LTE Band 2	3	19185	15	#0	QAM16	20.79	PASS
LTE Band 2	5	18625	1	#0	QAM16	22.18	PASS

LTE Band 2	5	18625	1	#Mid	QAM16	22.15	PASS
LTE Band 2	5	18625	1	#Max	QAM16	22.15	PASS
LTE Band 2	5	18625	12	#0	QAM16	20.77	PASS
LTE Band 2	5	18625	12	#Mid	QAM16	20.77	PASS
LTE Band 2	5	18625	12	#Max	QAM16	20.82	PASS
LTE Band 2	5	18625	25	#0	QAM16	20.87	PASS
LTE Band 2	5	18900	1	#0	QAM16	21.97	PASS
LTE Band 2	5	18900	1	#Mid	QAM16	21.75	PASS
LTE Band 2	5	18900	1	#Max	QAM16	21.88	PASS
LTE Band 2	5	18900	12	#0	QAM16	20.71	PASS
LTE Band 2	5	18900	12	#Mid	QAM16	20.84	PASS
LTE Band 2	5	18900	12	#Max	QAM16	20.91	PASS
LTE Band 2	5	18900	25	#0	QAM16	20.78	PASS
LTE Band 2	5	19175	1	#0	QAM16	22.26	PASS
LTE Band 2	5	19175	1	#Mid	QAM16	21.94	PASS
LTE Band 2	5	19175	1	#Max	QAM16	21.39	PASS
LTE Band 2	5	19175	12	#0	QAM16	20.78	PASS
LTE Band 2	5	19175	12	#Mid	QAM16	20.80	PASS
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LTE Band 2	10	18900	1	#0	QAM16	22.63	PASS
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LTE Band 2	10	18900	1	#Max	QAM16	22.31	PASS
LTE Band 2	10	18900	25	#0	QAM16	21.04	PASS
LTE Band 2	10	18900	25	#Mid	QAM16	21.04	PASS
LTE Band 2	10	18900	25	#Max	QAM16	20.98	PASS
LTE Band 2	10	19150	1	#0	QAM16	21.24	PASS
LTE Band 2	10	19150	1	#Mid	QAM16	21.64	PASS
LTE Band 2	10	19150	1	#Max	QAM16	21.03	PASS
LTE Band 2	10	19150	25	#0	QAM16	20.83	PASS
LTE Band 2	10	19150	25	#Mid	QAM16	20.85	PASS
LTE Band 2	10	19150	25	#Max	QAM16	20.79	PASS
LTE Band 2	15	18675	1	#0	QAM16	22.12	PASS
LTE Band 2	15	18675	1	#Mid	QAM16	22.06	PASS
LTE Band 2	15	18675	1	#Max	QAM16	21.81	PASS
LTE Band 2	15	18900	1	#0	QAM16	22.48	PASS
LTE Band 2	15	18900	1	#Mid	QAM16	22.18	PASS



LTE Band 2	15	18900	1	#Max	QAM16	22.28	PASS
LTE Band 2	15	19125	1	#0	QAM16	21.29	PASS
LTE Band 2	15	19125	1	#Mid	QAM16	21.43	PASS
LTE Band 2	15	19125	1	#Max	QAM16	21.07	PASS
LTE Band 2	20	18700	1	#0	QAM16	22.02	PASS
LTE Band 2	20	18700	1	#Mid	QAM16	22.39	PASS
LTE Band 2	20	18700	1	#Max	QAM16	21.94	PASS
LTE Band 2	20	18900	1	#0	QAM16	21.19	PASS
LTE Band 2	20	18900	1	#Mid	QAM16	21.64	PASS
LTE Band 2	20	18900	1	#Max	QAM16	21.11	PASS
LTE Band 2	20	19100	1	#0	QAM16	21.00	PASS
LTE Band 2	20	19100	1	#Mid	QAM16	21.53	PASS
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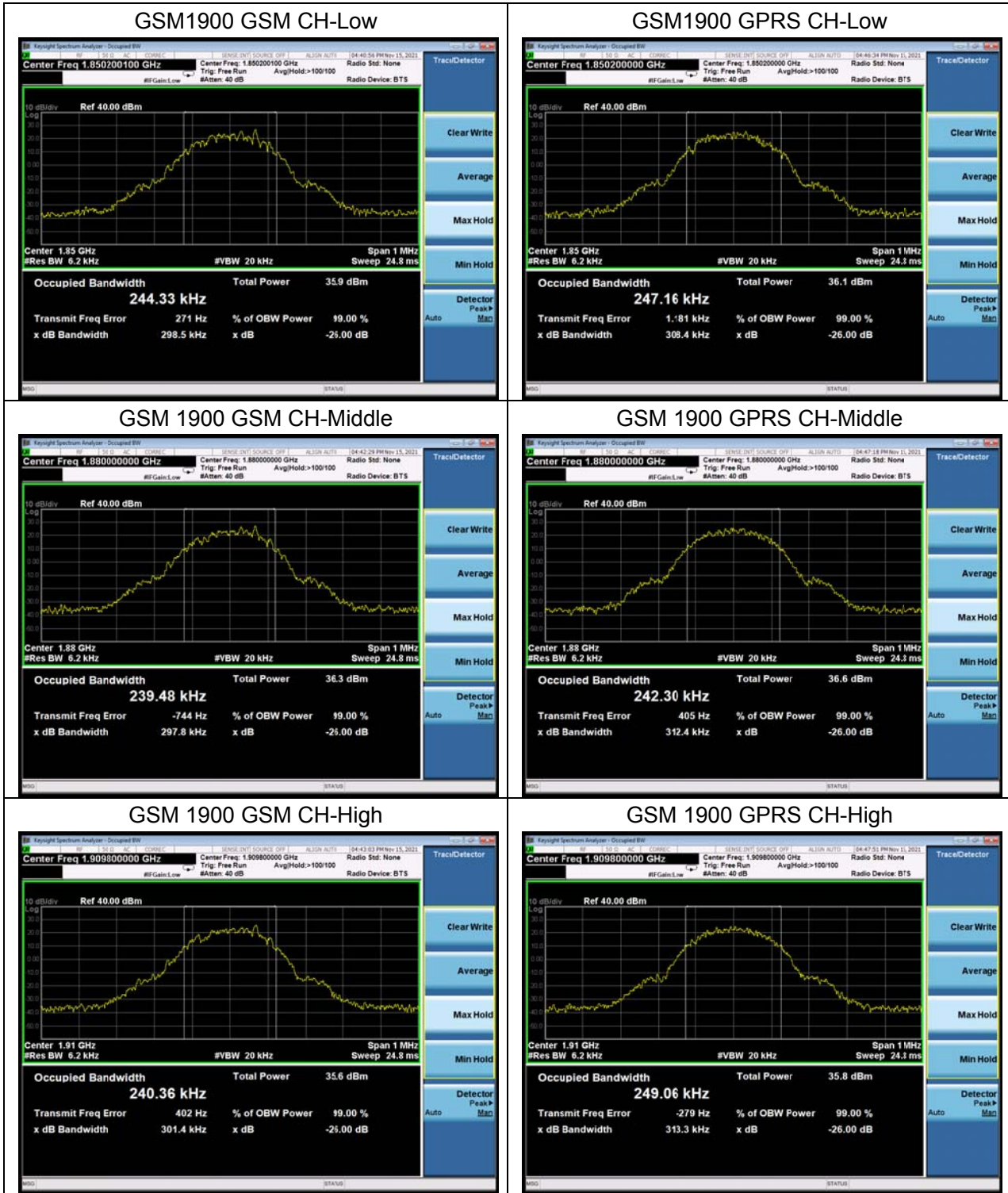
Occupied Bandwidth

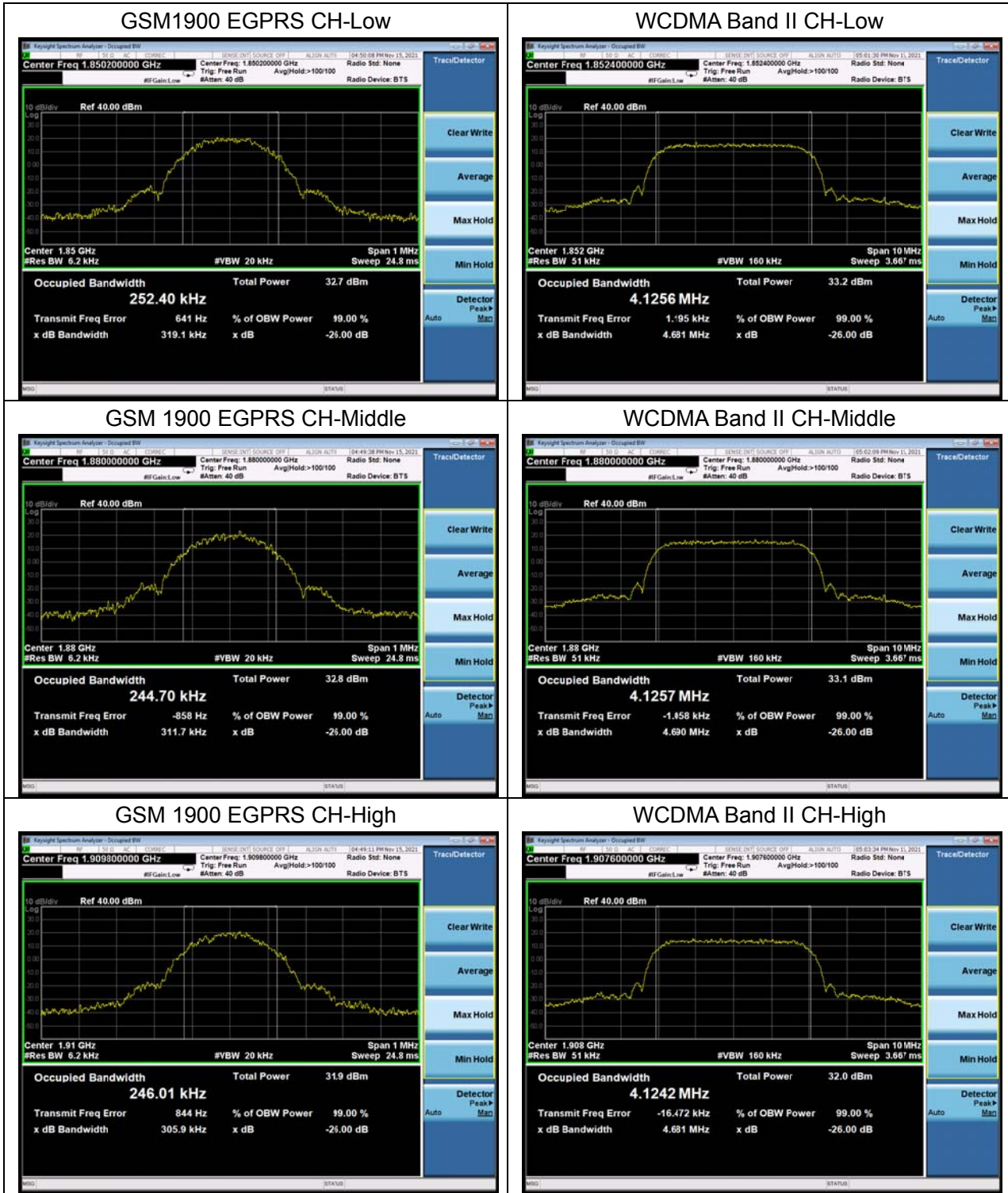
Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
GSM 1900 (GMSK)	512	1850.2	0.2443	0.2985
	661	1880.0	0.2395	0.2978
	810	1909.8	0.2404	0.3014
GPRS 1900 (GMSK)	512	1850.2	0.2472	0.3084
	661	1880.0	0.2423	0.3124
	810	1909.8	0.2491	0.3133
EGPRS 1900 (8PSK)	512	1850.2	0.2524	0.3191
	661	1880.0	0.2447	0.3117
	810	1909.8	0.2460	0.3059
WCDMA Band II	9262	1852.4	4.1256	4.6810
	9400	1880	4.1257	4.6900
	9538	1907.6	4.1242	4.6810

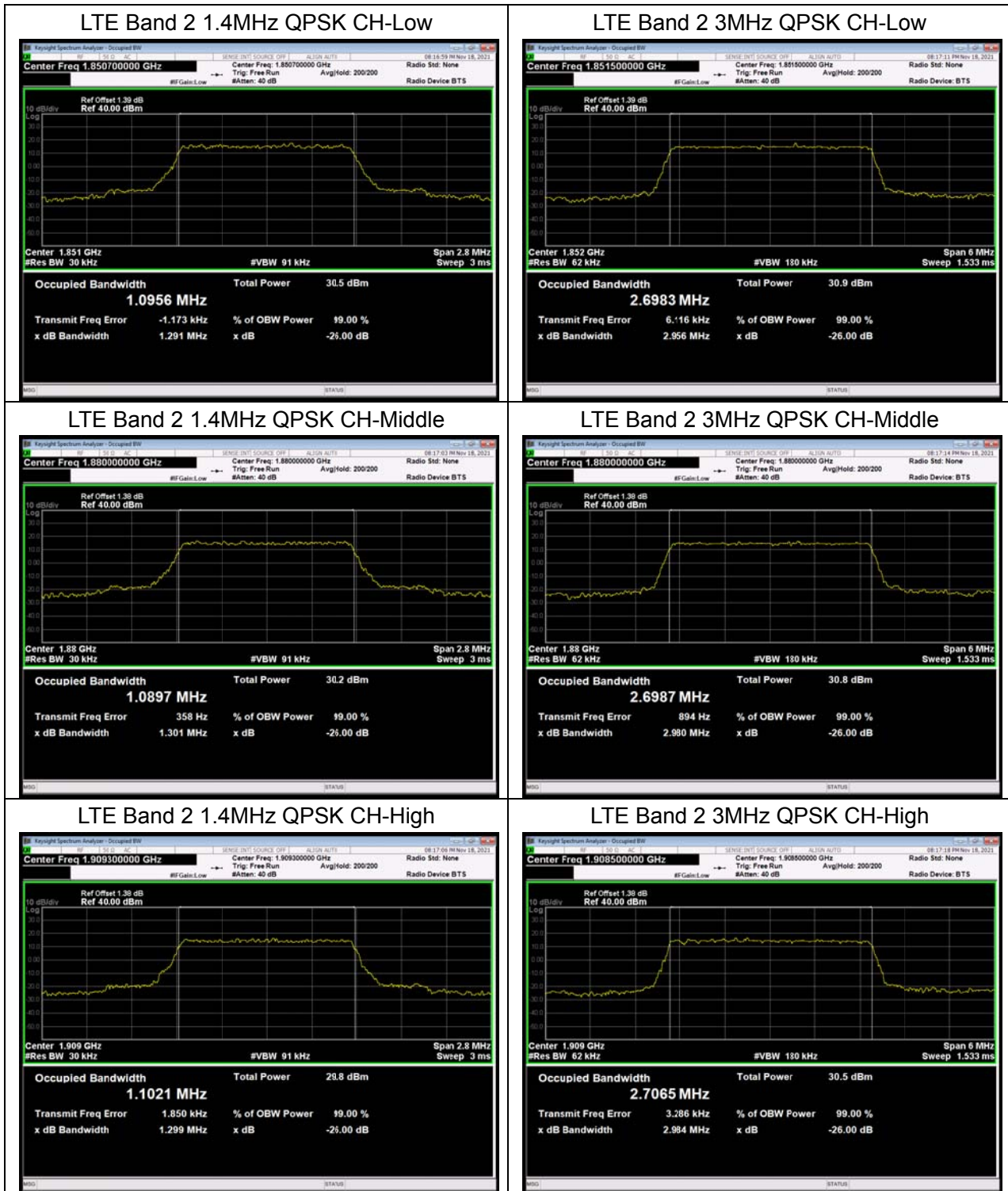
LTE Band 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	18607	1850.7	1.096	1.291
			18900	1880	1.090	1.301
			19193	1909.3	1.102	1.299
		3	18615	1851.5	2.698	2.956
			18900	1880	2.699	2.980
			19185	1908.5	2.706	2.984
		5	18625	1852.5	4.525	5.029
			18900	1880	4.518	4.939
			19175	1907.5	4.505	4.935
		10	18650	1855	8.957	9.660
			18900	1880	8.951	9.745
			19150	1905	8.984	9.707
		15	18675	1857.5	13.436	14.468
			18900	1880	13.410	14.595
			19125	1902.5	13.410	14.653
		20	18700	1860	17.876	19.262
			18900	1880	17.915	19.220
			19100	1900	17.827	19.050



	16QAM	1.4	18607	1850.7	1.104	1.275
			18900	1880	1.090	1.274
			19193	1909.3	1.094	1.285
		3	18615	1851.5	2.688	2.944
			18900	1880	2.698	2.978
			19185	1908.5	2.701	2.983
		5	18625	1852.5	4.507	4.962
			18900	1880	4.507	5.049
			19175	1907.5	4.506	4.955









LTE Band 2 5MHz QPSK CH-Low



LTE Band 2 10MHz QPSK CH-Low



LTE Band 2 5MHz QPSK CH-Middle



LTE Band 2 10MHz QPSK CH-Middle



LTE Band 2 5MHz QPSK CH-High

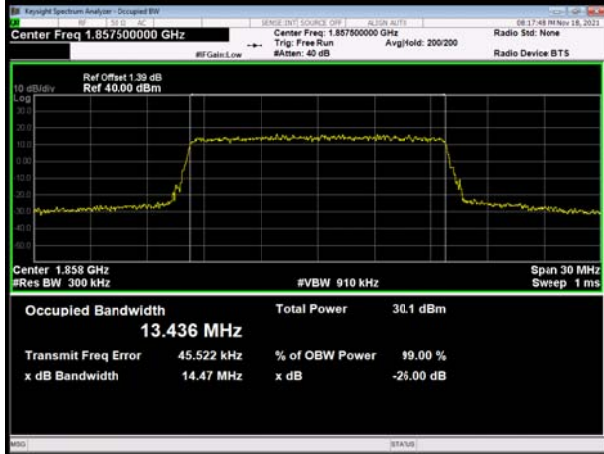


LTE Band 2 10MHz QPSK CH-High

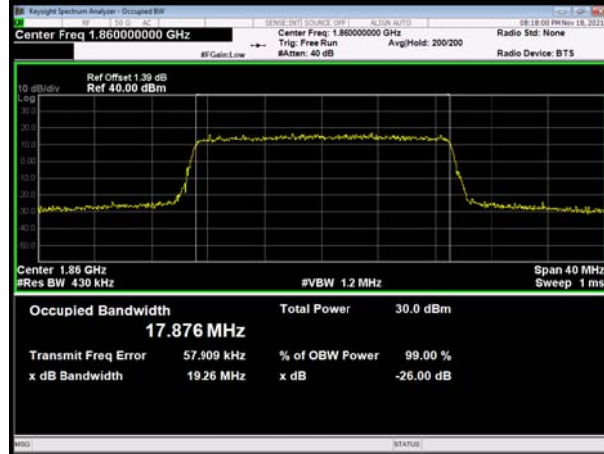




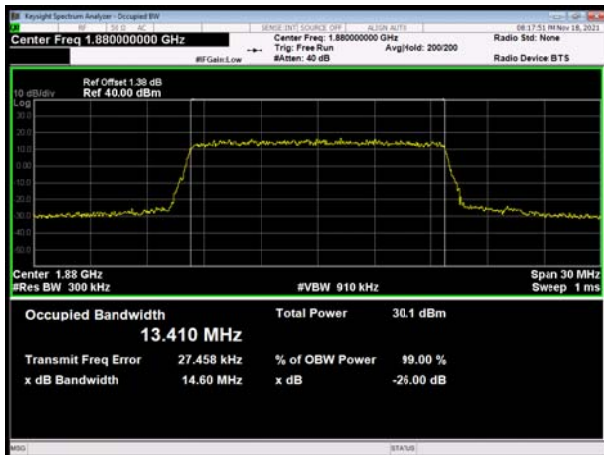
LTE Band 2 15MHz QPSK CH-Low



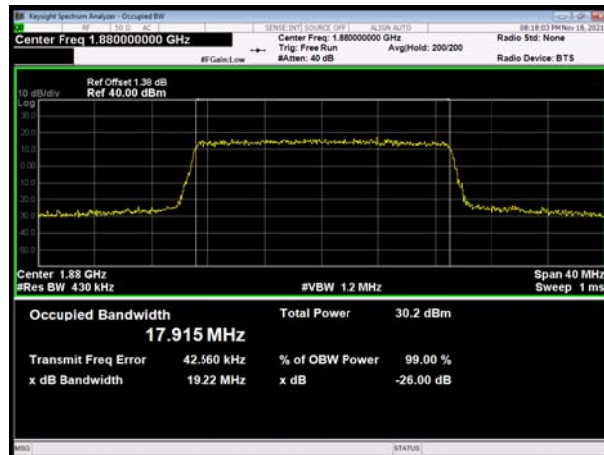
LTE Band 2 20MHz QPSK CH-Low



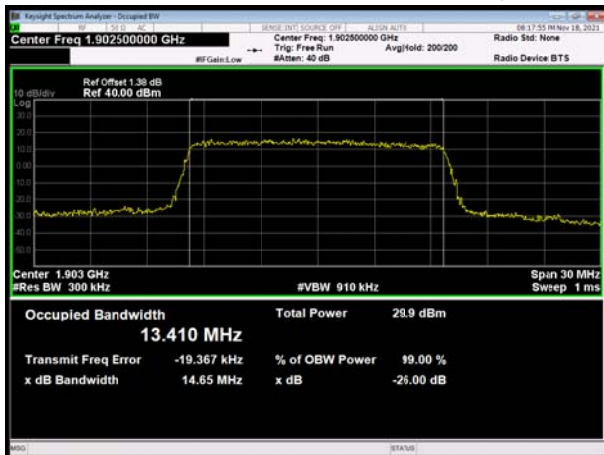
LTE Band 2 15MHz QPSK CH-Middle



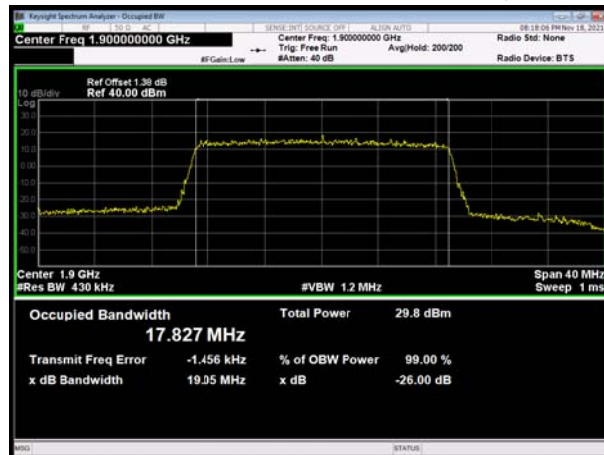
LTE Band 2 20MHz QPSK CH-Middle



LTE Band 2 15MHz QPSK CH-High

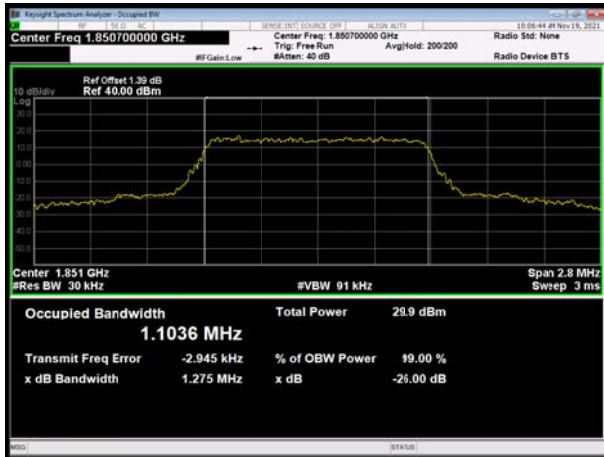


LTE Band 2 20MHz QPSK CH-High

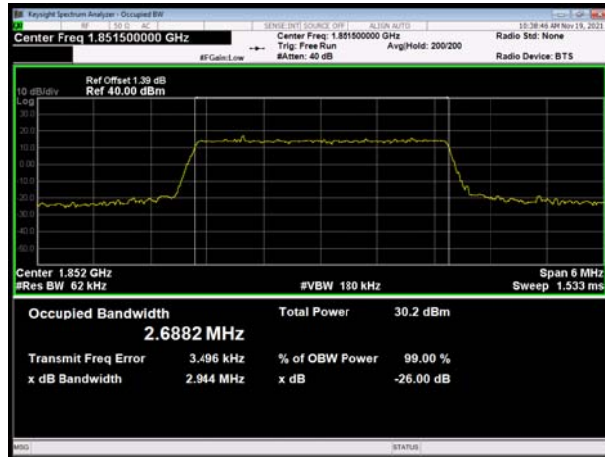




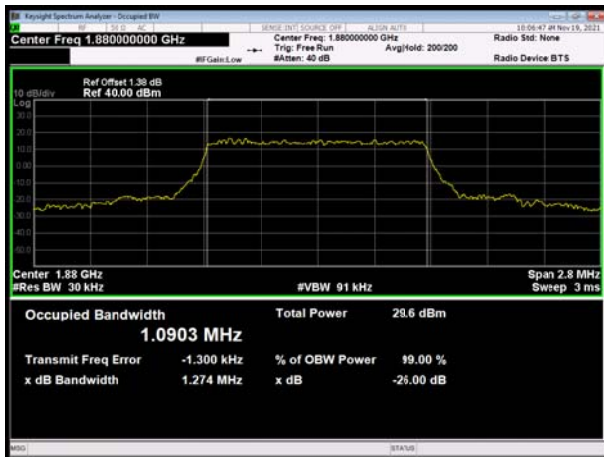
LTE Band 2 1.4MHz 16QAM CH-Low



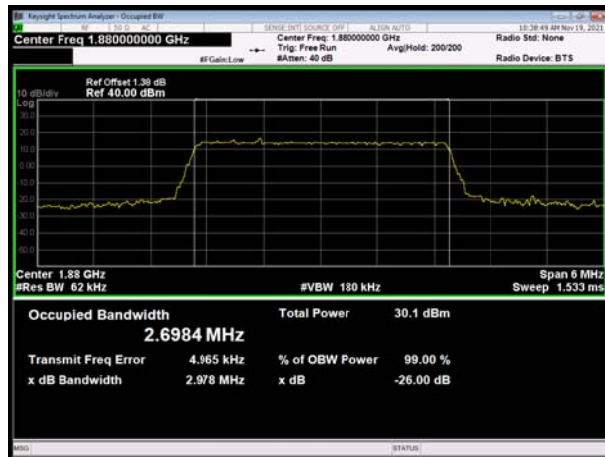
LTE Band 2 3MHz 16QAM CH-Low



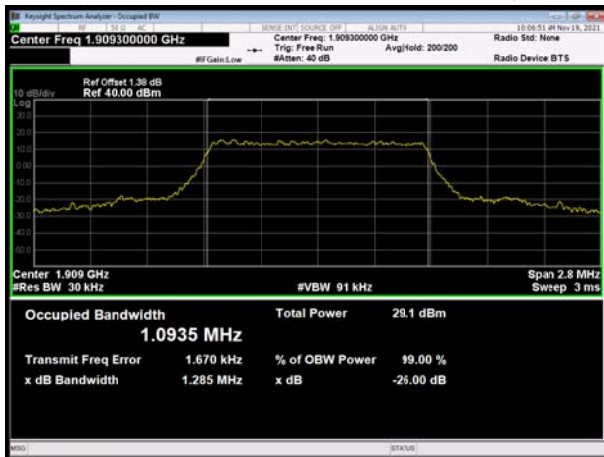
LTE Band 2 1.4MHz 16QAM CH-Middle



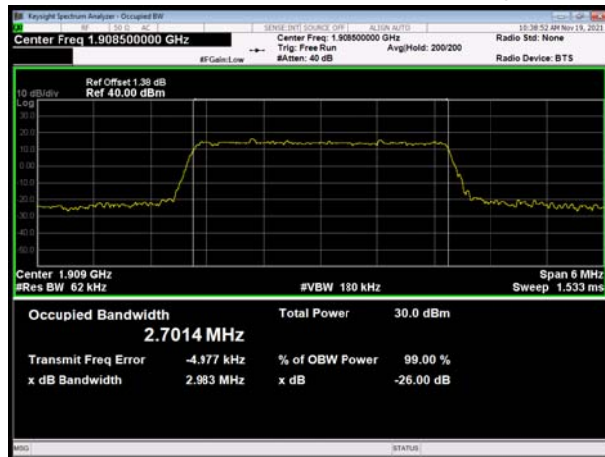
LTE Band 2 3MHz 16QAM CH-Middle



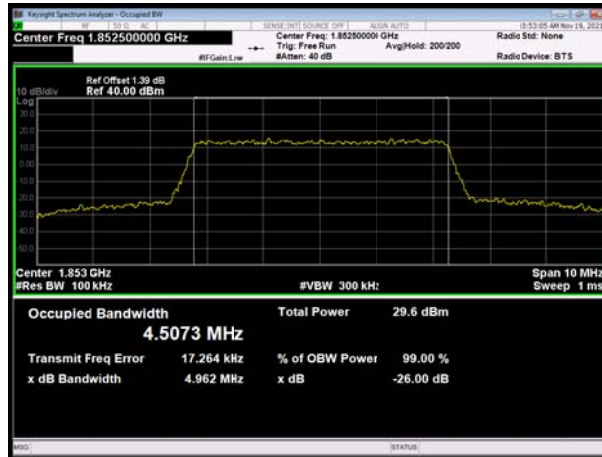
LTE Band 2 1.4MHz 16QAM CH-High



LTE Band 2 3MHz 16QAM CH-High



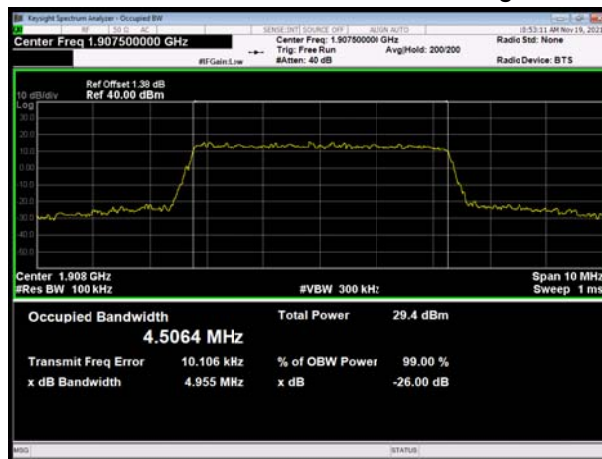
LTE Band 2 5MHz 16QAM CH-Low



LTE Band 2 5MHz 16QAM CH-Middle



LTE Band 2 5MHz 16QAM CH-High



Band Edge Compliance

GSM1900 GSM CH-Low



GSM 1900 GSM CH-High



GSM1900 GPRS CH-Low



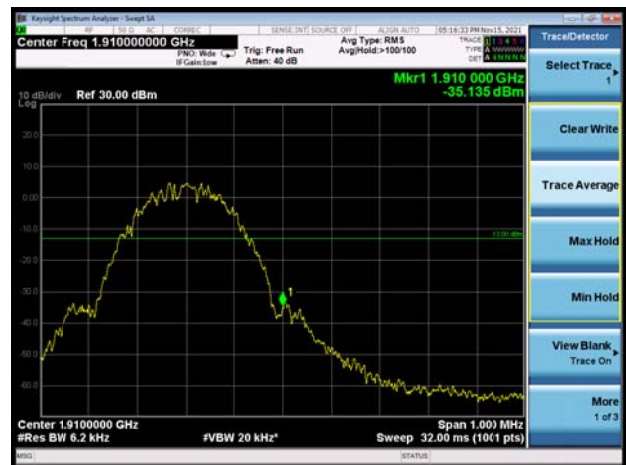
GSM 1900 GPRS CH-High



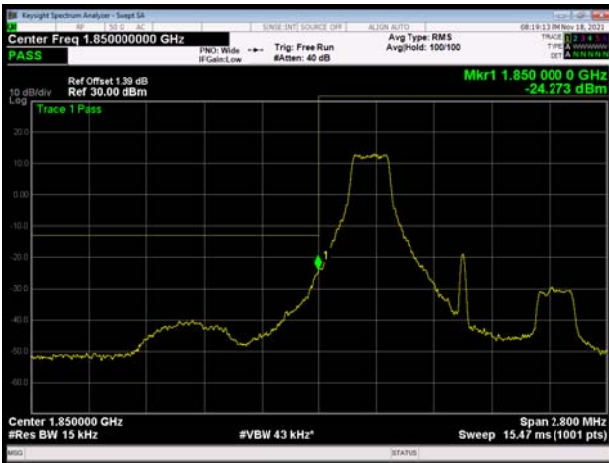
GSM1900 EGPRS CH-Low



GSM 1900 EGPRS CH-High



LTE Band 2 1.4MHz QPSK 1RB CH-Low



LTE Band 2 1.4MHz QPSK 1RB CH-High



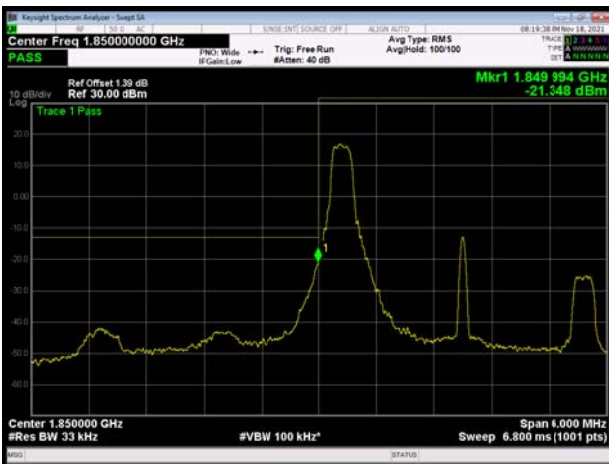
LTE Band 2 1.4MHz QPSK 100%RB CH-Low



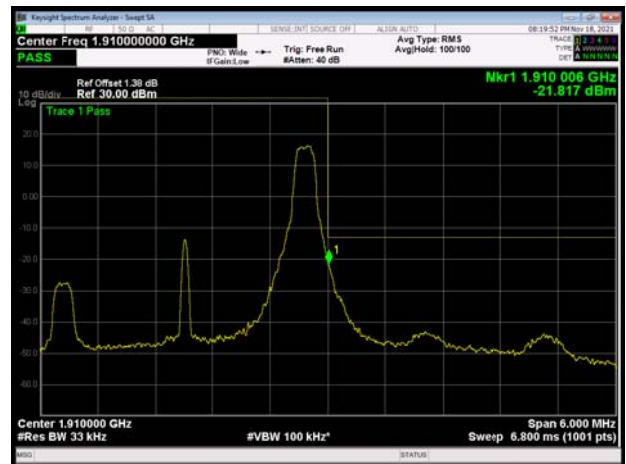
LTE Band 2 1.4MHz QPSK 100%RB CH-High



LTE Band 2 3MHz QPSK 1RB CH-Low

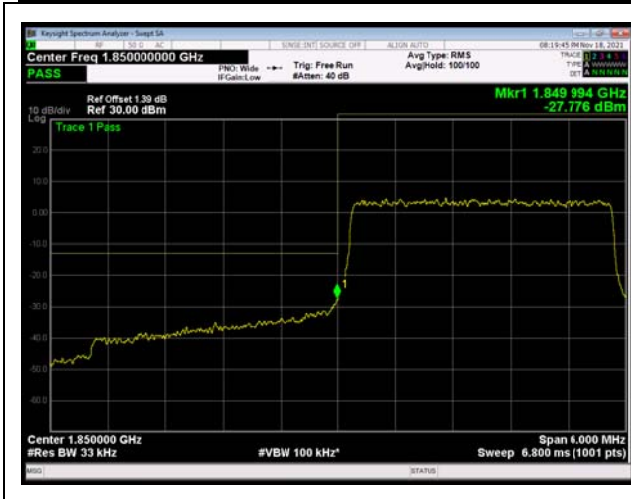


LTE Band 2 3MHz QPSK 1RB CH-High

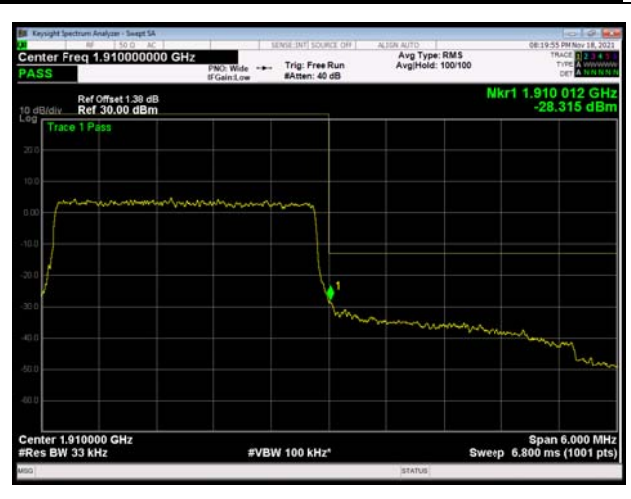


LTE Band 2 3MHz QPSK 100%RB CH-Low

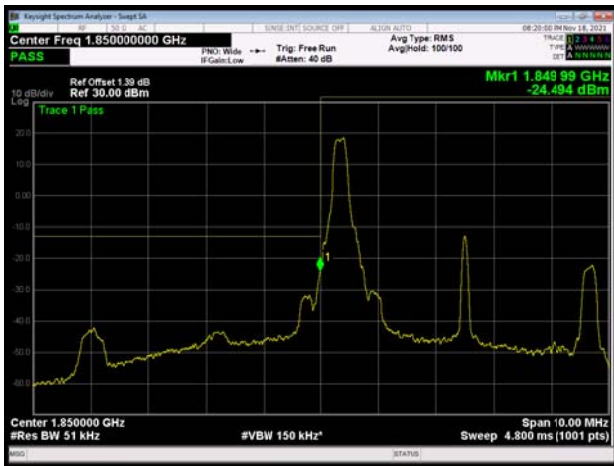
LTE Band 2 3MHz QPSK 100%RB CH-High



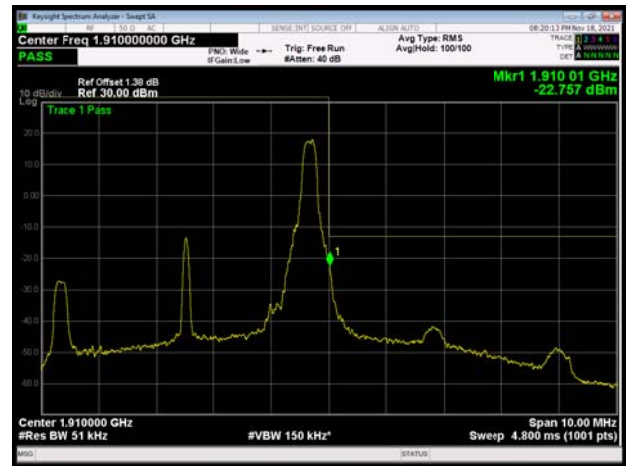
LTE Band 2 5MHz QPSK 1RB CH-Low



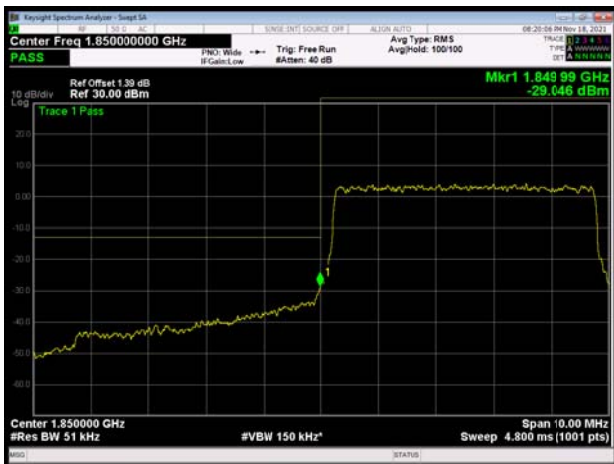
LTE Band 2 5MHz QPSK 1RB CH-High



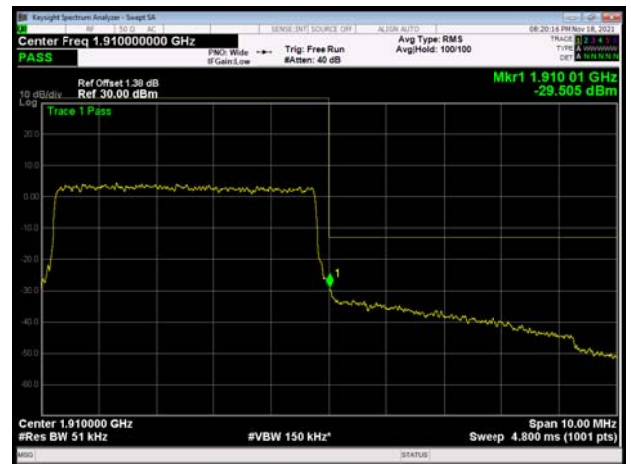
LTE Band 2 5MHz QPSK 100%RB CH-Low



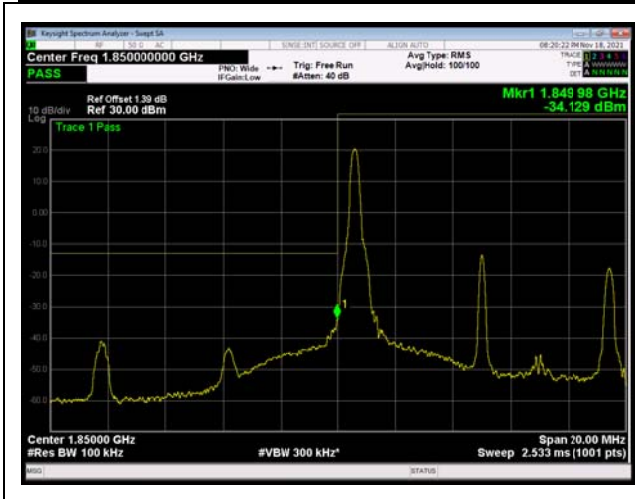
LTE Band 2 5MHz QPSK 100%RB CH-High



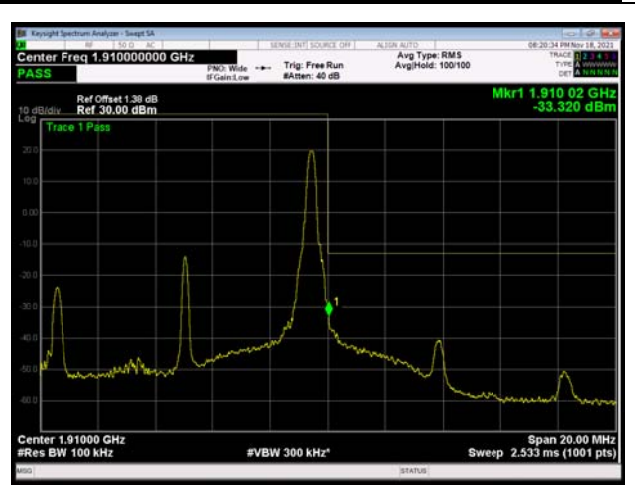
LTE Band 2 10MHz QPSK 1RB CH-Low



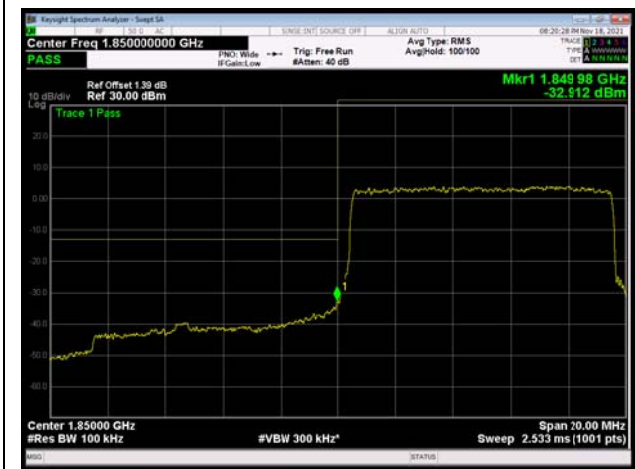
LTE Band 2 10MHz QPSK 1RB CH-High



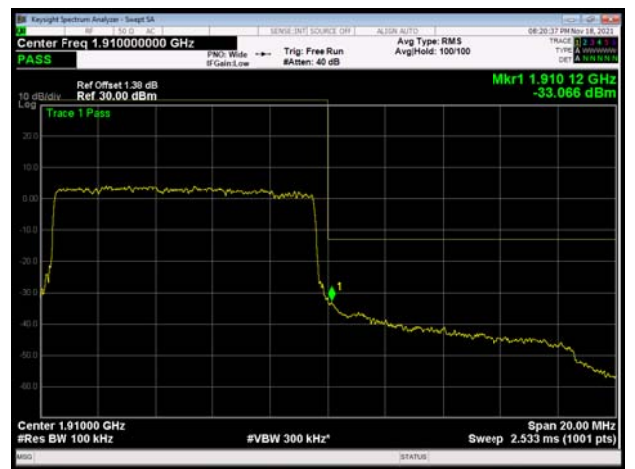
LTE Band 2 10MHz QPSK 100%RB CH-Low



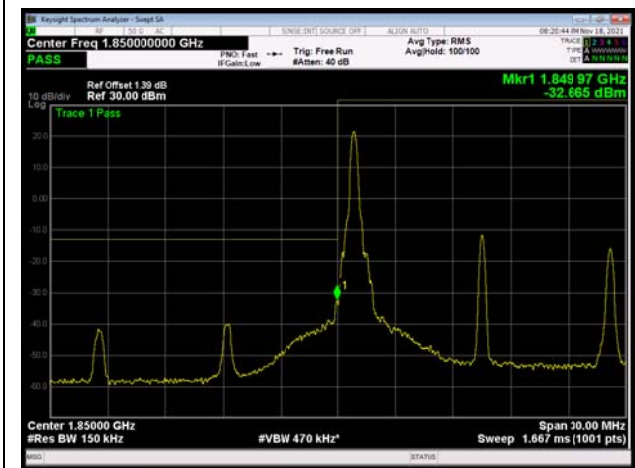
LTE Band 2 10MHz QPSK 100%RB CH-High



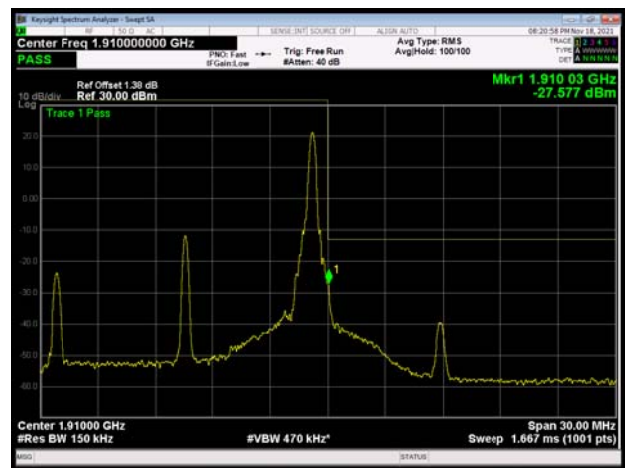
LTE Band 2 15MHz QPSK 1RB CH-Low



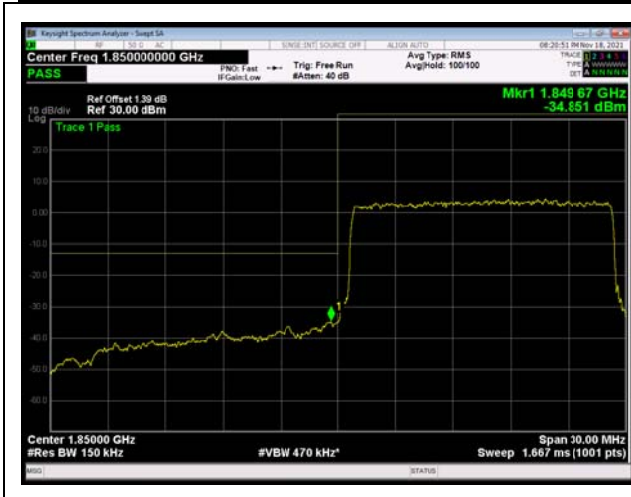
LTE Band 2 15MHz QPSK 1RB CH-High



LTE Band 2 15MHz QPSK 100%RB CH-Low



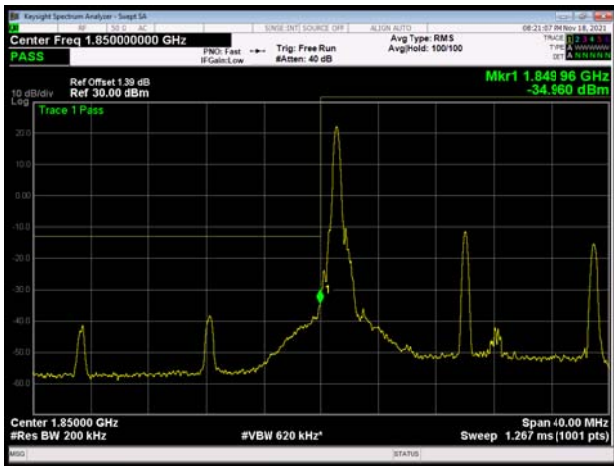
LTE Band 2 15MHz QPSK 100%RB CH-High



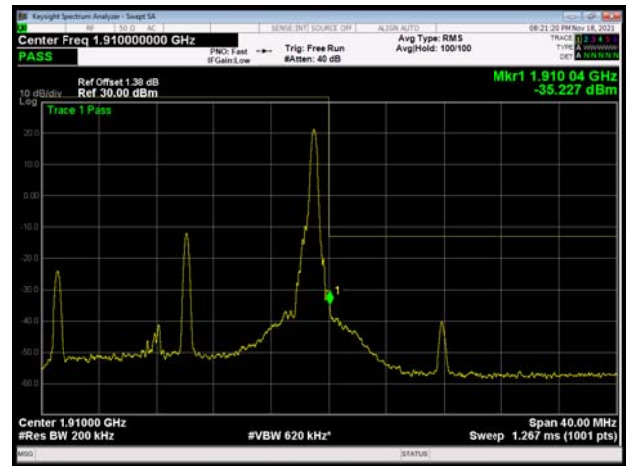
LTE Band 2 20MHz QPSK 1RB CH-Low



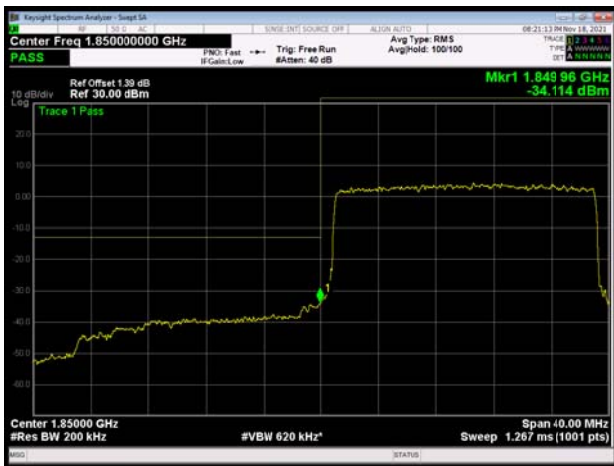
LTE Band 2 20MHz QPSK 1RB CH-High



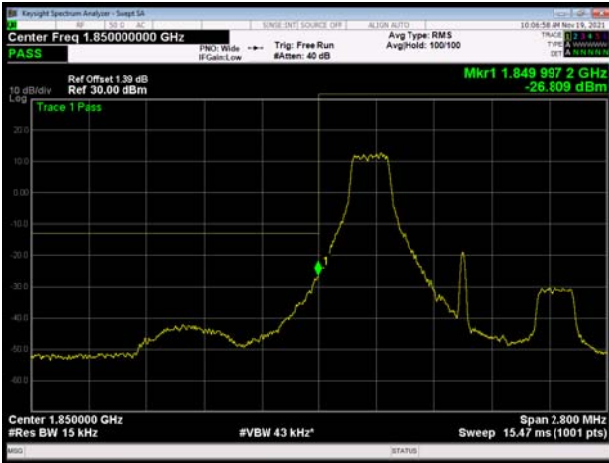
LTE Band 2 20MHz QPSK 100%RB CH-Low



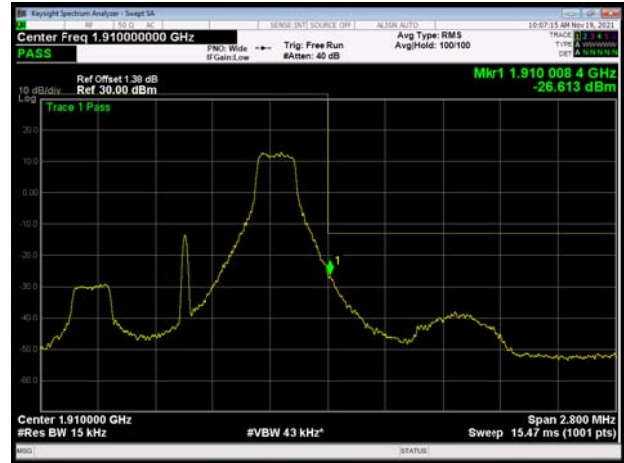
LTE Band 2 20MHz QPSK 100%RB CH-High



LTE Band 2 1.4MHz 16QAM 1RB CH-Low



LTE Band 2 1.4MHz 16QAM 1RB CH-High



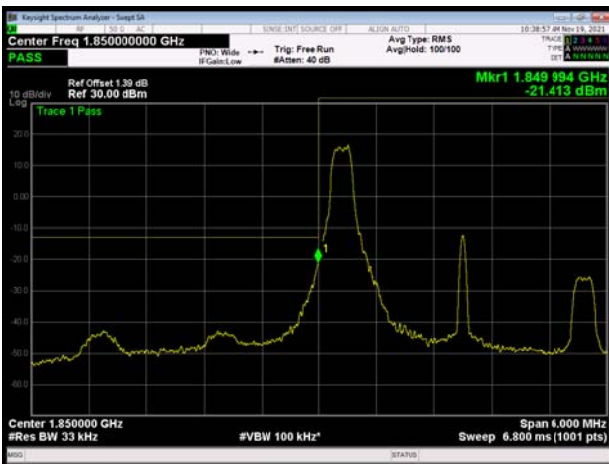
LTE Band 2 1.4MHz 16QAM 100%RB CH-Low



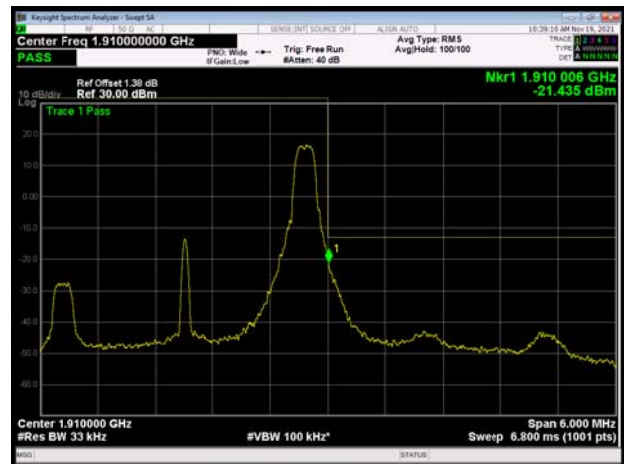
LTE Band 2 1.4MHz 16QAM 100%RB CH-High



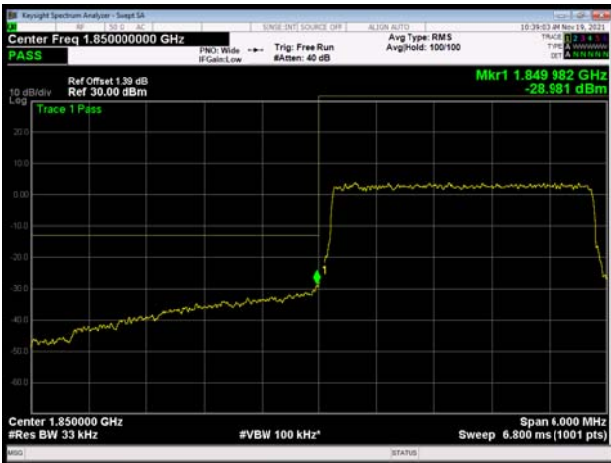
LTE Band 2 3MHz 16QAM 1RB CH-Low



LTE Band 2 3MHz 16QAM 1RB CH-High



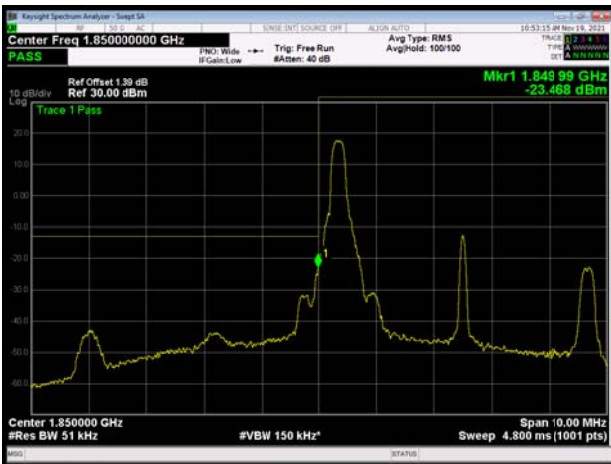
LTE Band 2 3MHz 16QAM 100%RB CH-Low



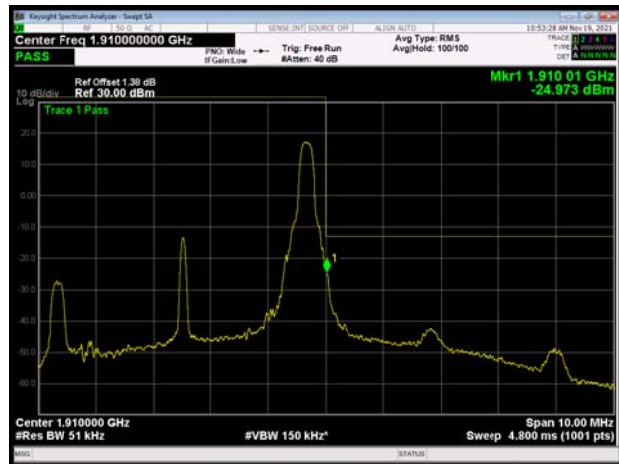
LTE Band 2 3MHz 16QAM 100%RB CH-High



LTE Band 2 5MHz 16QAM 1RB CH-Low



LTE Band 2 5MHz 16QAM 1RB CH-High



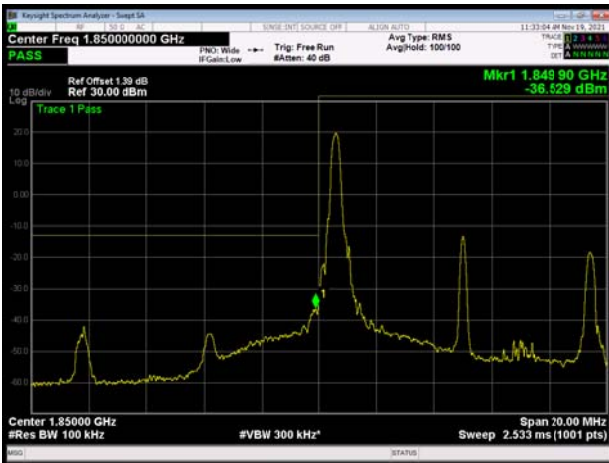
LTE Band 2 5MHz 16QAM 100%RB CH-Low



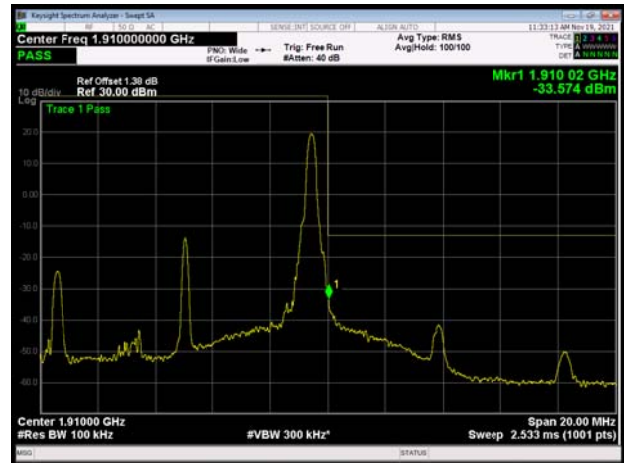
LTE Band 2 5MHz 16QAM 100%RB CH-High



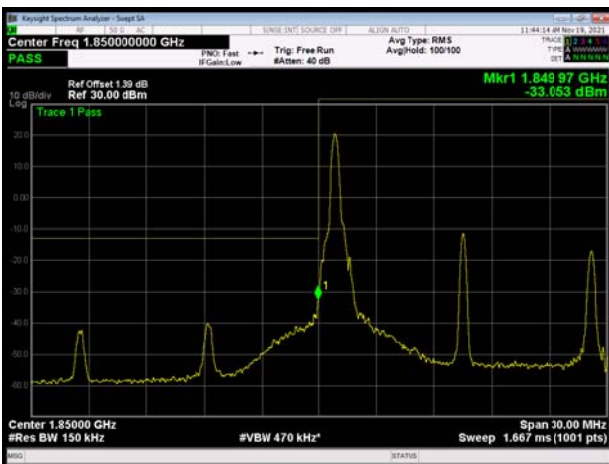
LTE Band 2 10MHz 16QAM 1RB CH-Low



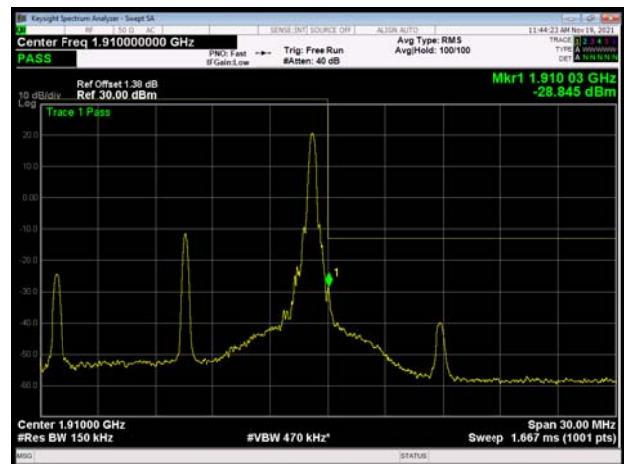
LTE Band 2 10MHz 16QAM 1RB CH-High



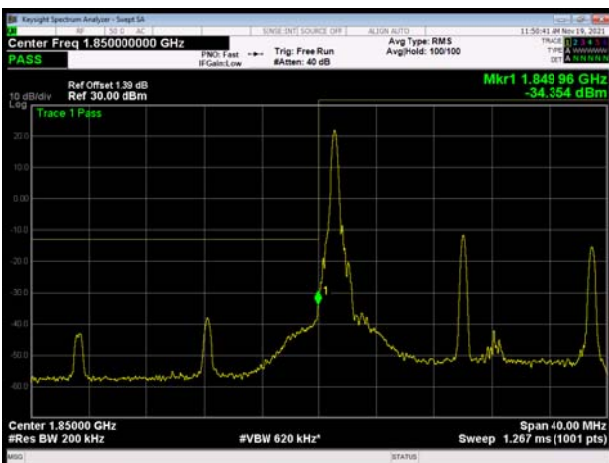
LTE Band 2 15MHz 16QAM 1RB CH-Low



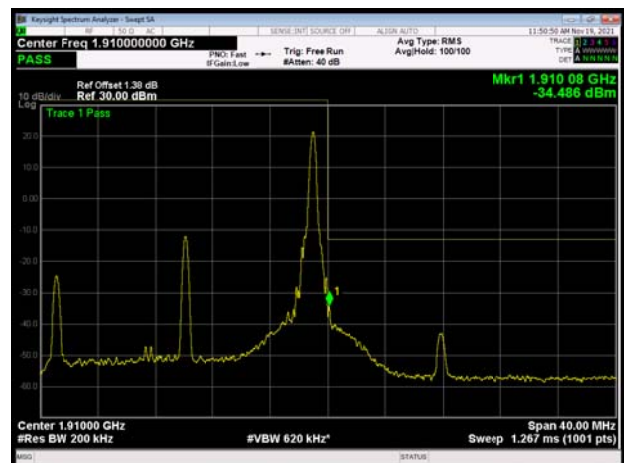
LTE Band 2 15MHz 16QAM 1RB CH-High



LTE Band 2 20MHz 16QAM 1RB CH-Low



LTE Band 2 20MHz 16QAM 1RB CH-High



Peak-to-Average Power Ratio (PAPR)

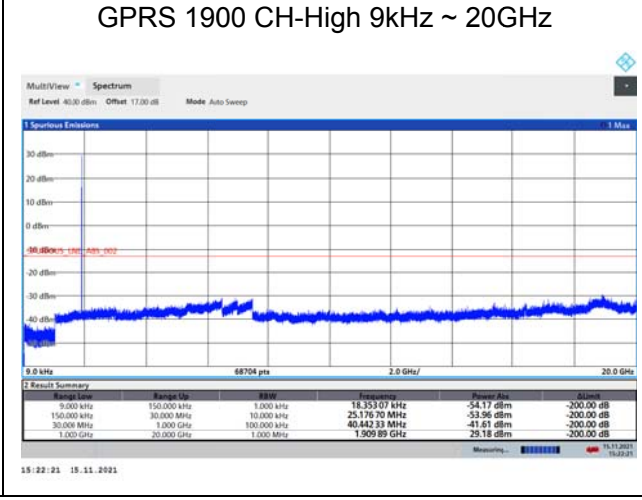
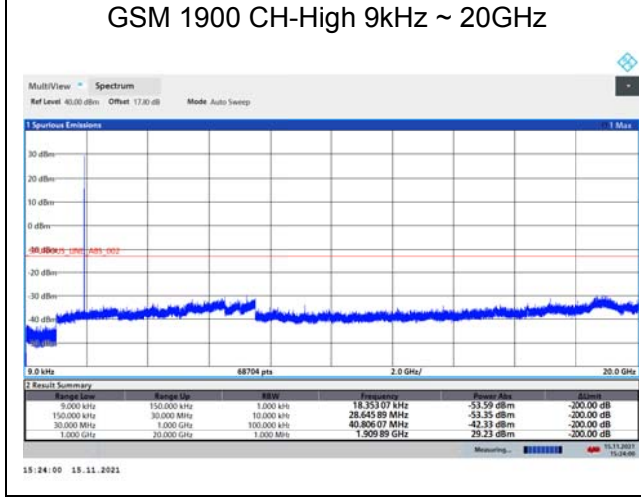
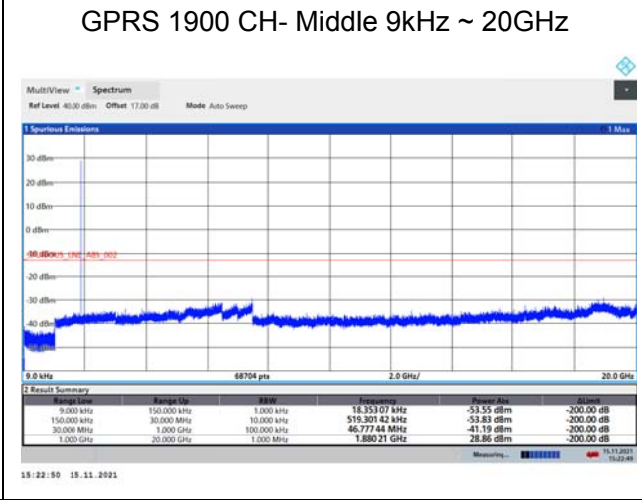
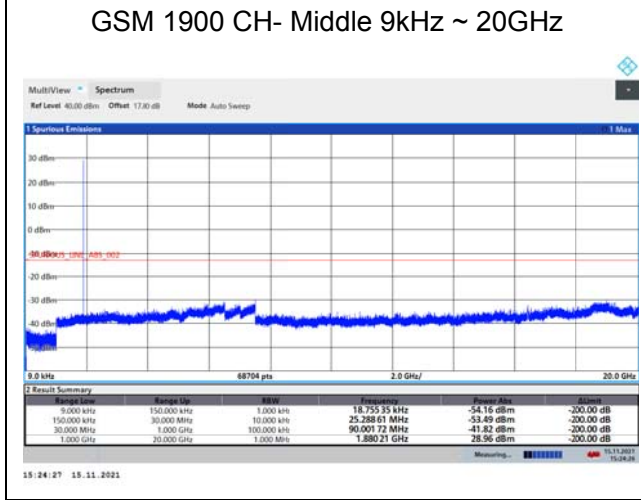
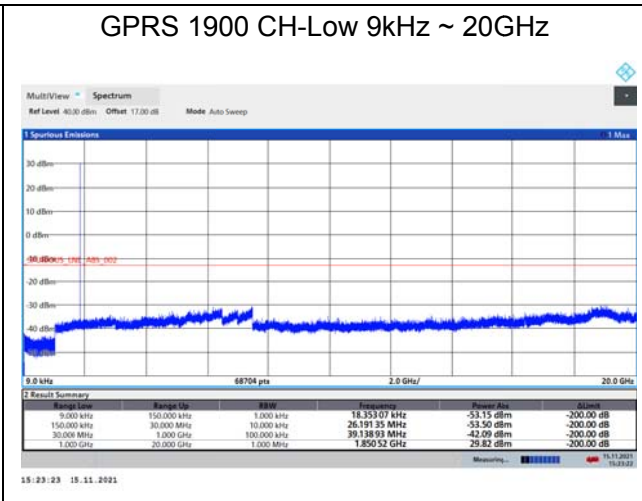
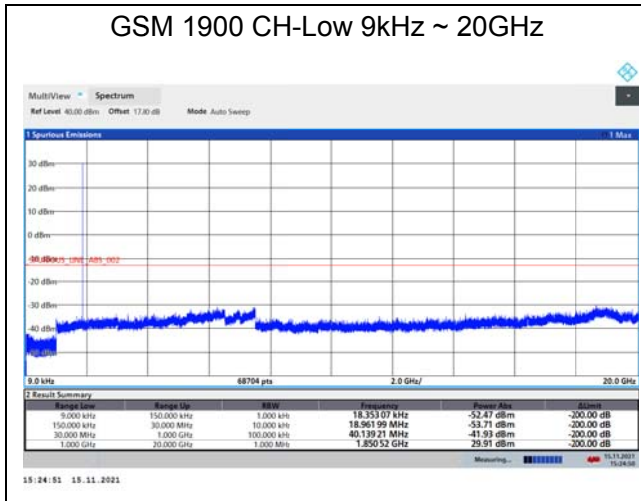
Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 1900 (GMSK)	512	1850.2	30.60	27.82	2.78	≤13	PASS
	661	1880	30.74	27.96	2.78	≤13	PASS
	810	1909.8	29.96	27.16	2.80	≤13	PASS
GPRS 1900 (GMSK)	512	1850.2	30.60	27.83	2.77	≤13	PASS
	661	1880	30.75	27.97	2.78	≤13	PASS
	810	1909.8	29.97	27.17	2.80	≤13	PASS
EGPRS 1900 (8PSK)	512	1850.2	29.63	24.03	5.60	≤13	PASS
	661	1880	29.75	24.06	5.69	≤13	PASS
	810	1909.8	28.95	23.31	5.64	≤13	PASS
WCDMA Band II	9262	1852.4	27.17	24.14	3.03	≤13	PASS
	9400	1880	27.30	24.18	3.12	≤13	PASS
	9538	1907.6	26.20	23.17	3.03	≤13	PASS

LTE Band 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	18607	1850.7	27.40	22.25	5.15	≤13	PASS
		18900	1880.0	27.41	22.21	5.20	≤13	PASS
		19193	1909.3	26.89	21.78	5.11	≤13	PASS
	3	18615	1851.5	27.46	22.29	5.17	≤13	PASS
		18900	1880	27.46	22.21	5.25	≤13	PASS
		19185	1908.5	27.12	22.00	5.12	≤13	PASS
	5	18625	1852.5	27.40	22.29	5.11	≤13	PASS
		18900	1880	27.44	22.21	5.23	≤13	PASS
		19175	1907.5	27.08	22.08	5.00	≤13	PASS
	10	18650	1855	27.32	22.24	5.08	≤13	PASS
		18900	1880	27.45	22.29	5.16	≤13	PASS
		19150	1905	26.88	21.98	4.90	≤13	PASS
	15	18675	1857.5	27.44	22.22	5.22	≤13	PASS
		18900	1880	27.62	22.35	5.27	≤13	PASS
		19125	1902.5	26.98	21.96	5.02	≤13	PASS
20	18700	1860	27.26	22.22	5.04	≤13	PASS	
	18900	1880	27.26	22.11	5.15	≤13	PASS	
	19100	1900	26.86	21.94	4.92	≤13	PASS	
16QAM	1.4	18607	1850.7	27.46	21.41	6.05	≤13	PASS

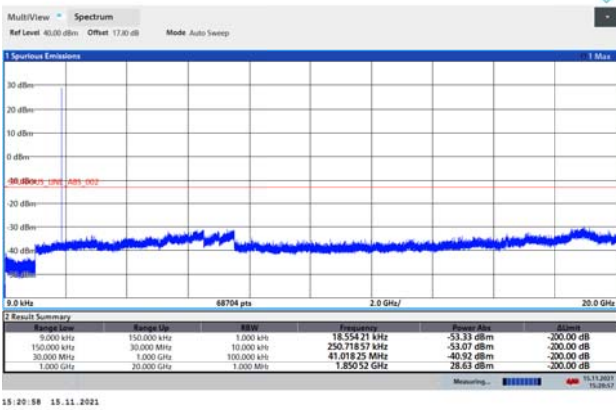


		18900	1880.0	27.86	21.73	6.13	≤13	PASS
		19193	1909.3	27.38	21.35	6.03	≤13	PASS
	3	18615	1851.5	27.64	21.58	6.06	≤13	PASS
		18900	1880	27.85	21.68	6.17	≤13	PASS
		19185	1908.5	27.33	21.33	6.00	≤13	PASS
	5	18625	1852.5	27.52	21.55	5.97	≤13	PASS
		18900	1880	27.57	21.49	6.08	≤13	PASS
		19175	1907.5	27.22	21.37	5.85	≤13	PASS

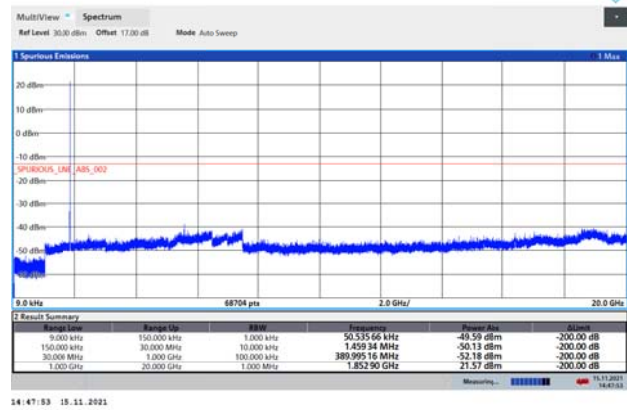
Spurious Emissions at Antenna Terminals



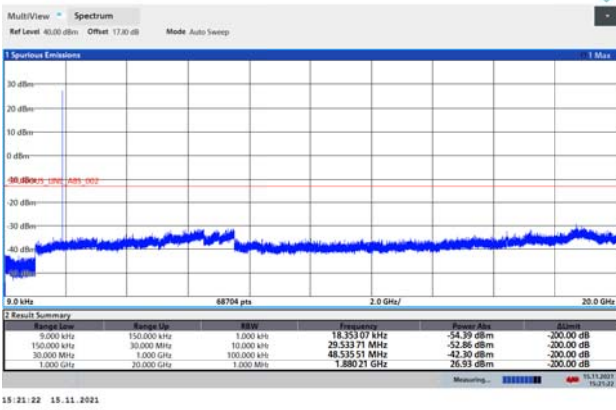
EGPRS 1900 CH-Low 9kHz ~ 20GHz



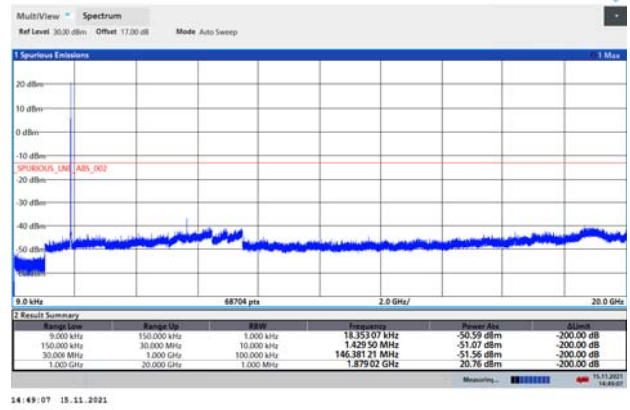
WCDMA BAND II CH-Low 9kHz ~ 20GHz



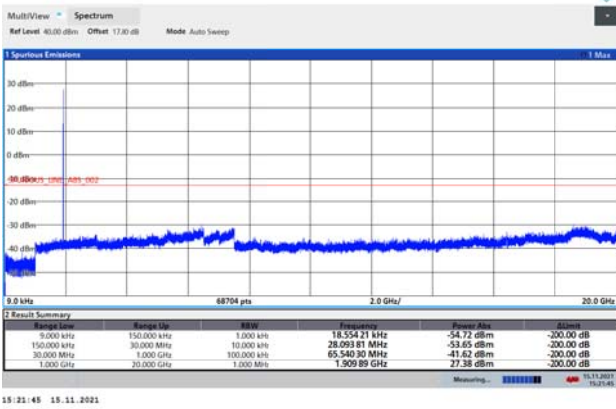
EGPRS 1900 CH- Middle 9kHz ~ 20GHz



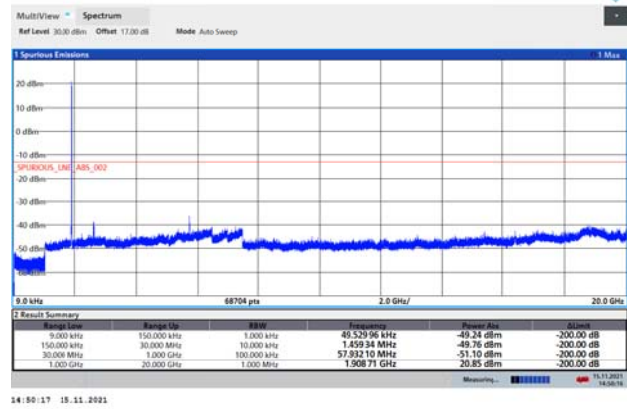
WCDMA BAND II CH- Middle 9kHz ~ 20GHz



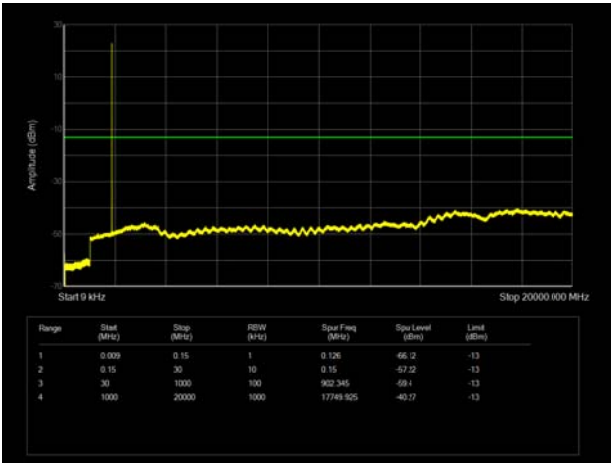
EGPRS 1900 CH-High 9kHz ~ 20GHz



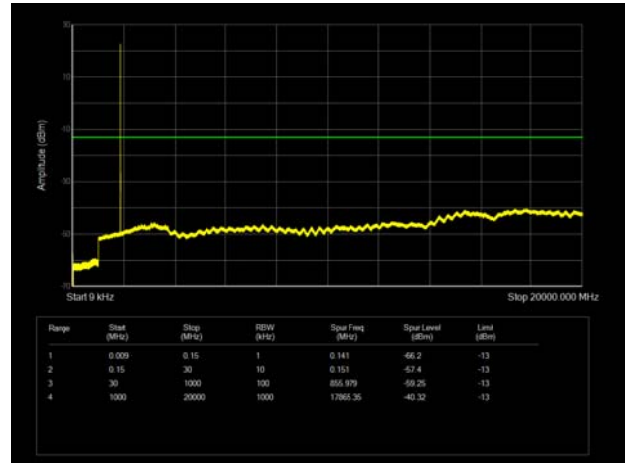
WCDMA BAND II CH-High 9kHz ~ 20GHz



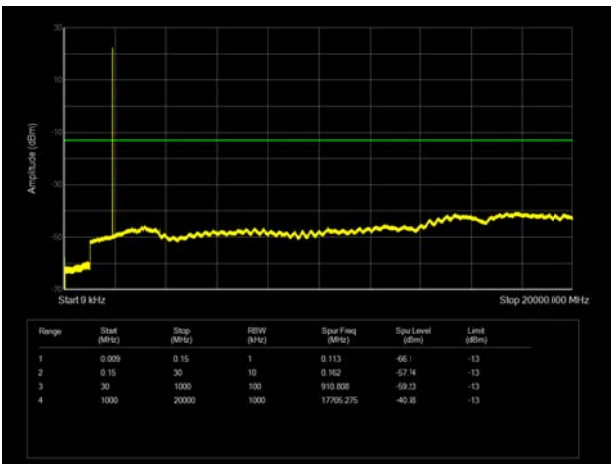
LTE Band 2 1.4MHz CH-Low 9kHz~20GHz



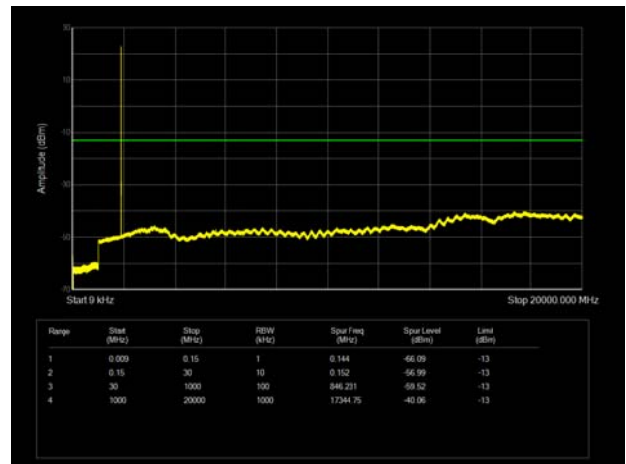
LTE Band 2 3MHz CH-Low 9kHz~20GHz



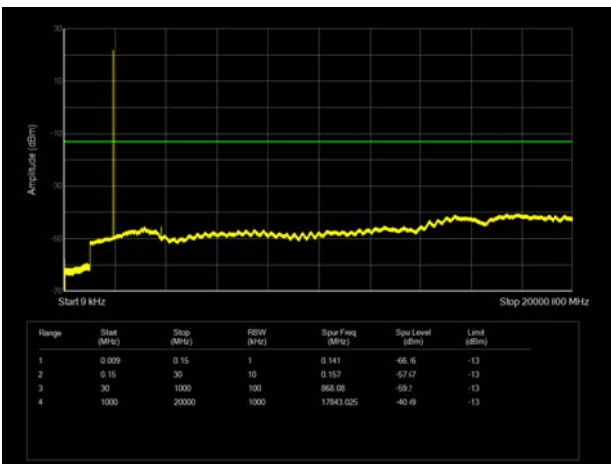
LTE Band 2 1.4MHz CH-Middle 9kHz~20GHz



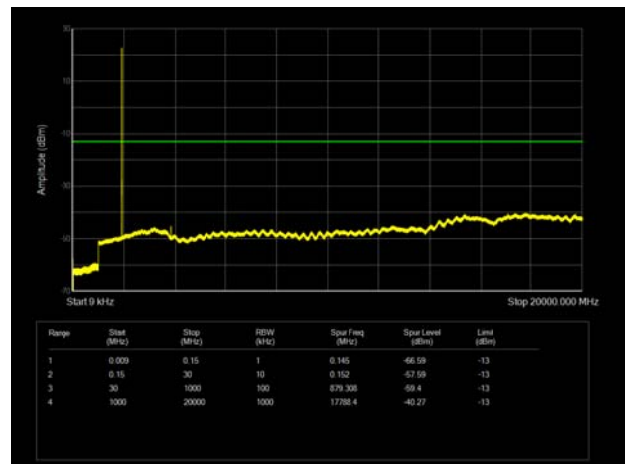
LTE Band 2 3MHz CH-Middle 9kHz~20GHz



LTE Band 2 1.4MHz CH-High 9kHz~20GHz

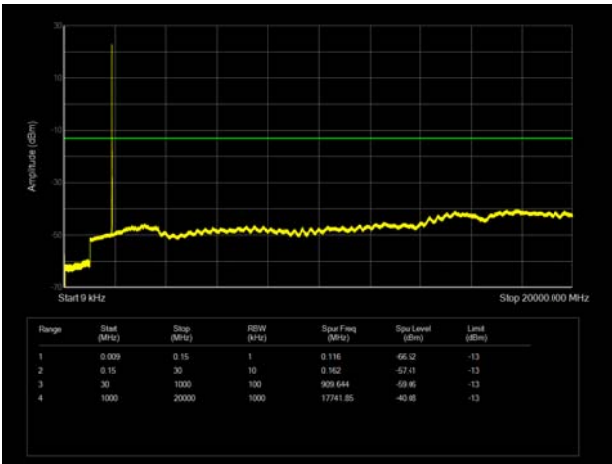


LTE Band 2 3MHz CH-High 9kHz~20GHz

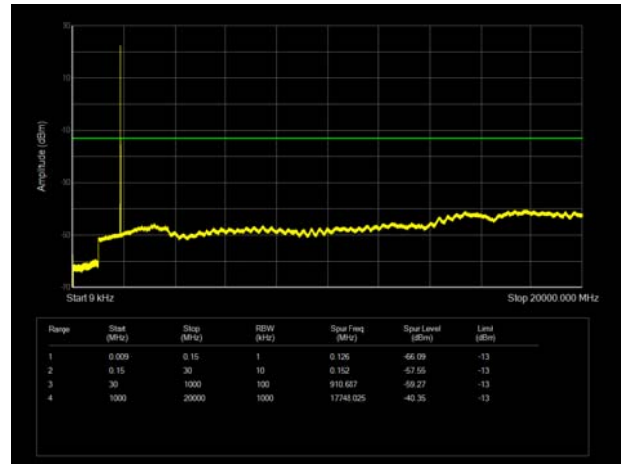




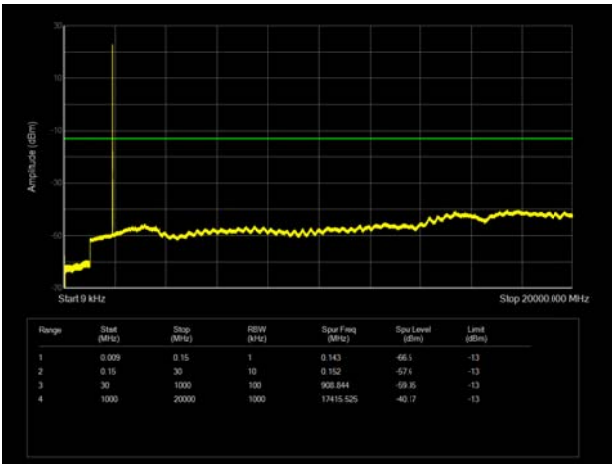
LTE Band 2 5MHz CH-Low 9kHz~20GHz



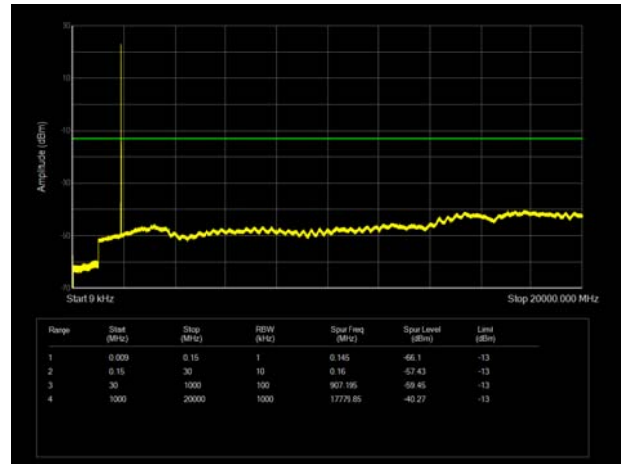
LTE Band 2 10MHz CH-Low 9kHz~20GHz



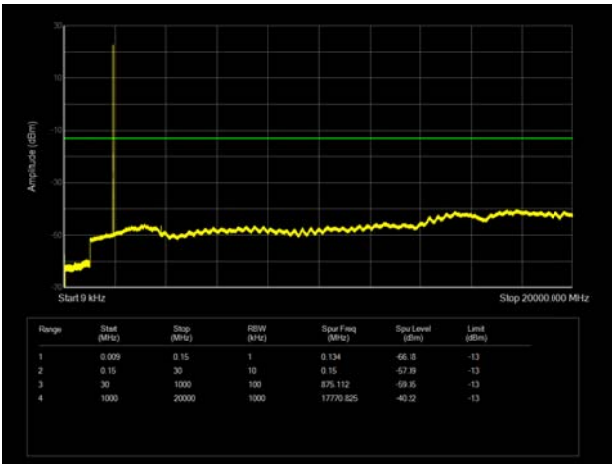
LTE Band 2 5MHz CH-Middle 9kHz~20GHz



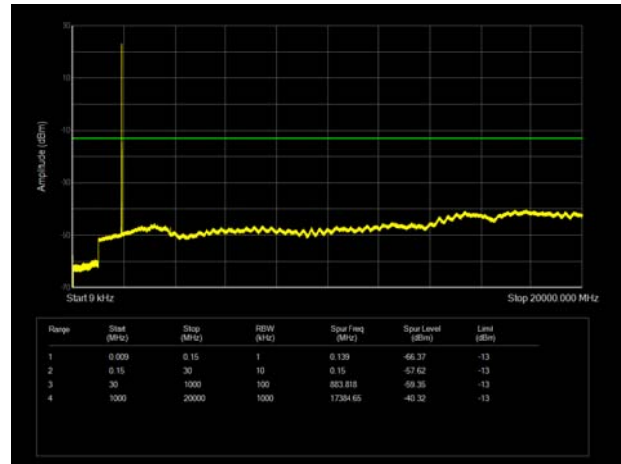
LTE Band 2 10MHz CH-Middle 9kHz~20GHz



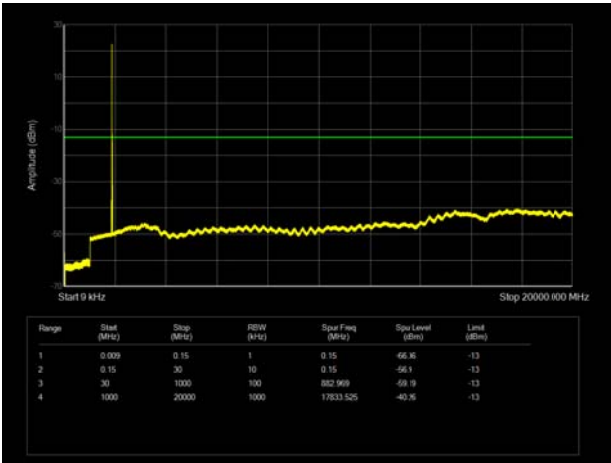
LTE Band 2 5MHz CH-High 9kHz~20GHz



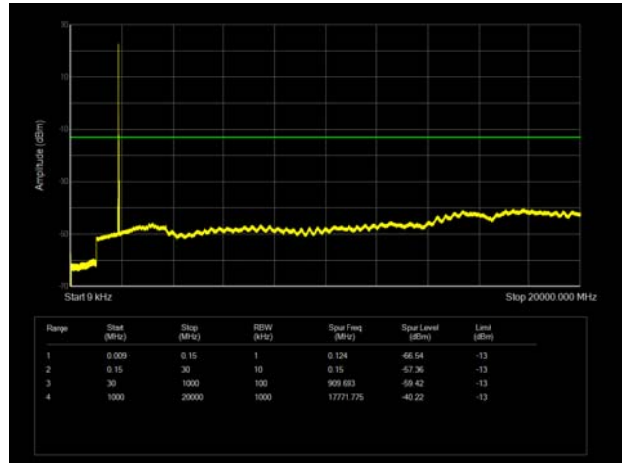
LTE Band 2 10MHz CH-High 9kHz~20GHz



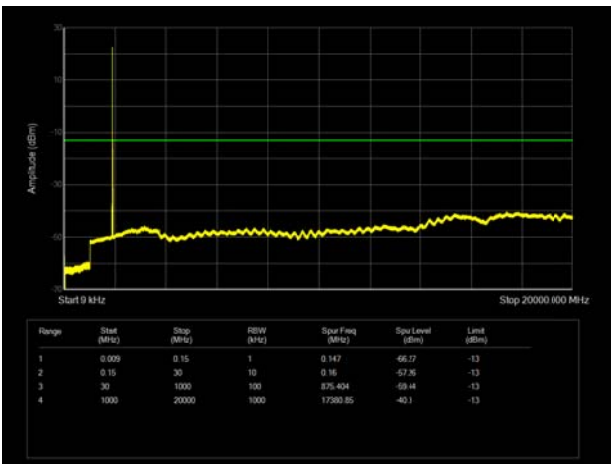
LTE Band 2 15MHz CH-Low 9kHz~20GHz



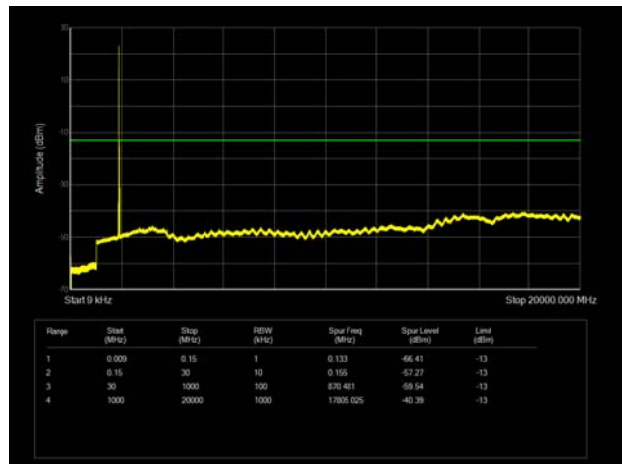
LTE Band 2 20MHz CH-Low 9kHz~20GHz



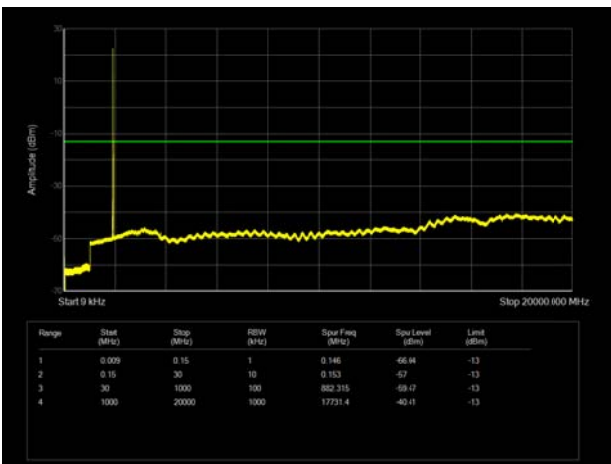
LTE Band 2 15MHz CH-Middle 9kHz~20GHz



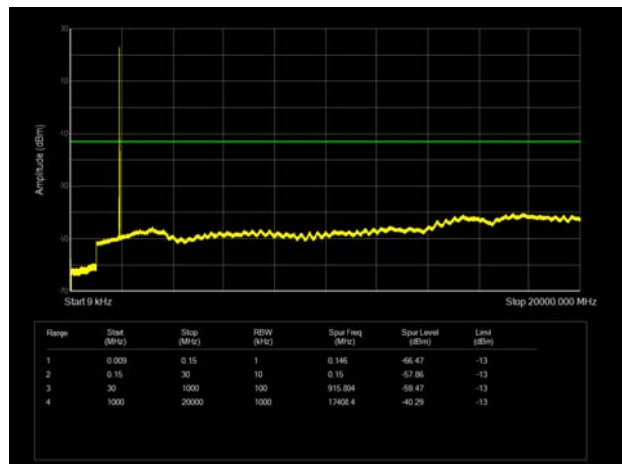
LTE Band 2 20MHz CH-Middle 9kHz~20GHz



LTE Band 2 15MHz CH-High 9kHz~20GHz



LTE Band 2 20MHz CH-High 9kHz~20GHz



Radiates Spurious Emission

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-60.49	5.10	11.05	Horizontal	-54.54	-13.00	41.54	225
3	5640.0	-58.98	5.42	12.65	Horizontal	-51.75	-13.00	38.75	45
4	7520.0	-55.47	6.70	13.85	Horizontal	-48.32	-13.00	35.32	135
5	9400.0	-53.40	7.01	14.75	Horizontal	-45.66	-13.00	32.66	90
6	11280.0	-53.11	7.48	15.95	Horizontal	-44.64	-13.00	31.64	90
7	13160.0	-53.30	7.51	16.55	Horizontal	-44.26	-13.00	31.26	135
8	15040.0	-46.05	8.24	15.35	Horizontal	-38.94	-13.00	25.94	90
9	16920.0	-46.76	8.41	14.95	Horizontal	-40.22	-13.00	27.22	135
10	18800.0	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3762.3	-48.41	2.60	12.50	Horizontal	-38.51	-13.00	25.51	135
3	5642.5	-52.45	3.30	12.50	Horizontal	-43.25	-13.00	30.25	90
4	7516.8	-51.92	4.20	12.20	Horizontal	-43.92	-13.00	30.92	135
5	9398.6	-50.14	4.30	11.10	Horizontal	-43.34	-13.00	30.34	45
6	11278.2	-48.96	5.90	11.90	Horizontal	-42.96	-13.00	29.96	90
7	13160.8	-51.79	5.70	14.00	Horizontal	-43.49	-13.00	30.49	135
8	15040.6	-46.90	5.80	13.10	Horizontal	-39.60	-13.00	26.60	270
9	16918.6	-48.51	6.10	14.60	Horizontal	-40.01	-13.00	27.01	0
10	18800.0	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.1	-49.80	5.10	11.05	Horizontal	-43.85	-13.00	30.85	180
3	5638.6	-52.72	5.42	12.65	Horizontal	-45.49	-13.00	32.49	225
4	7518.0	-48.43	6.70	13.85	Horizontal	-41.28	-13.00	28.28	45
5	9397.8	-43.50	7.01	14.75	Horizontal	-35.76	-13.00	22.76	0
6	11277.4	-51.01	7.48	15.95	Horizontal	-42.54	-13.00	29.54	270
7	13158.8	-52.02	7.51	16.55	Horizontal	-42.98	-13.00	29.98	270
8	15039.2	-46.81	8.24	15.35	Horizontal	-39.70	-13.00	26.70	0
9	16920.6	-47.71	8.41	14.95	Horizontal	-41.17	-13.00	28.17	90
10	18800.0	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

Main Test Instruments

Date of Testing (variant): September 28, 2021~ December 1, 2021

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2021-05-15	2022-05-14
Climate Chamber	Weiss	VT4002	58226119450010	2021-05-15	2022-05-14
Spectrum Analyzer	Key sight	N9020	MY52330084	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2020-12-13	2021-12-12
Signal Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019--9-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2021-12-16