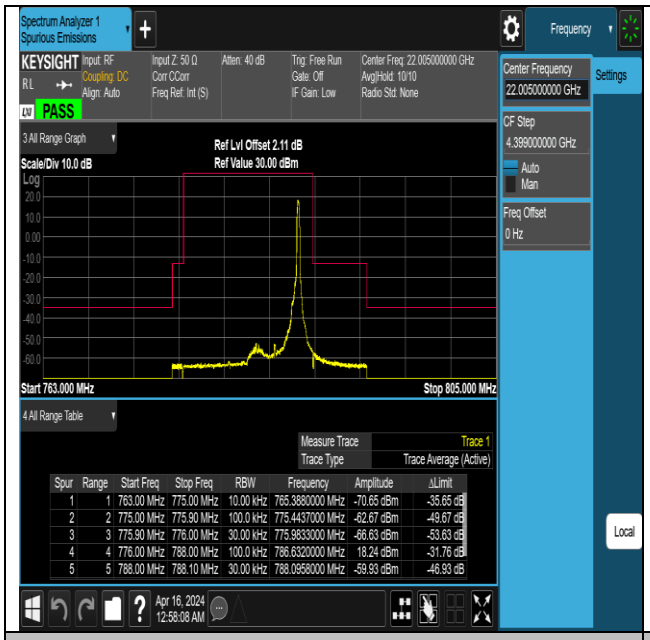
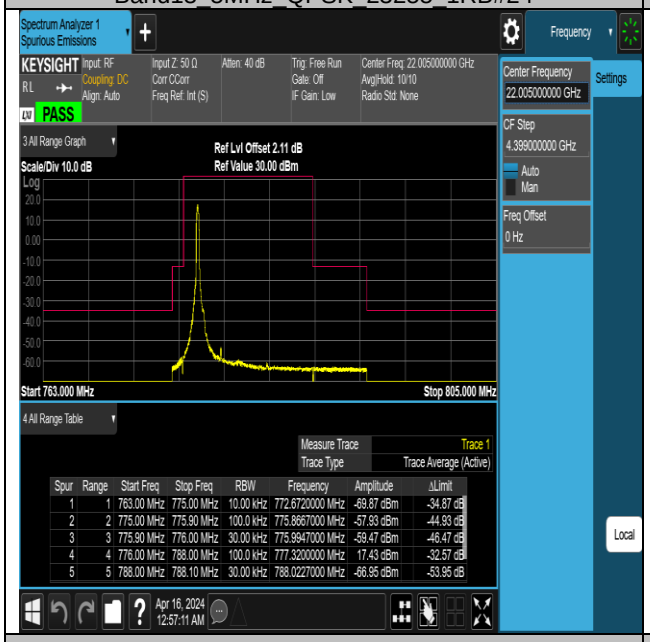


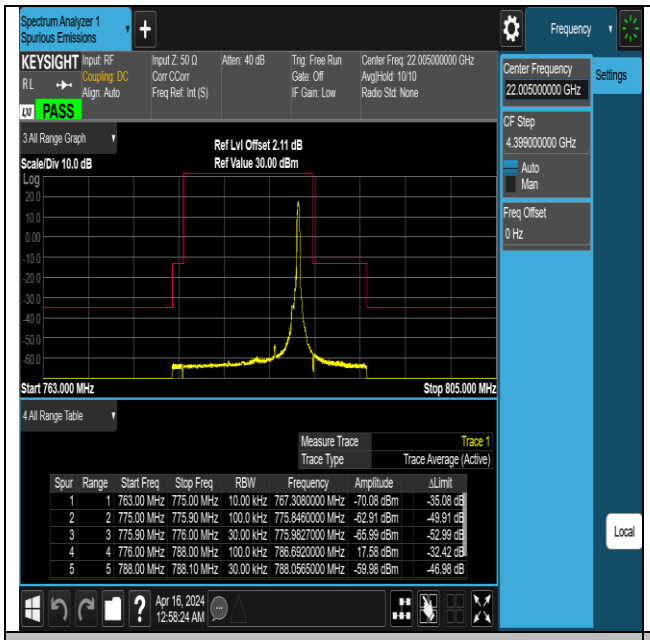
Band13_5MHz_QPSK_23255_1RB#24

Band13_5MHz_QPSK_23255_25RB#0



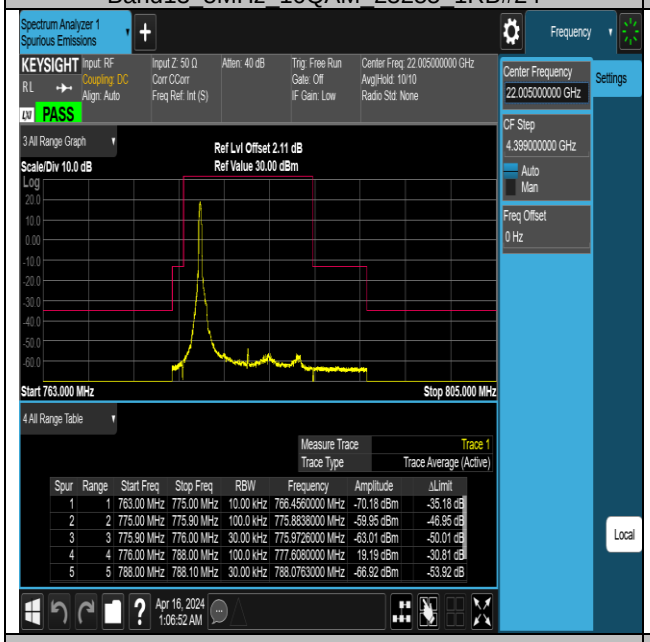
Band13_5MHz_16QAM_23205_1RB#0

Band13_5MHz_16QAM_23205_25RB#0

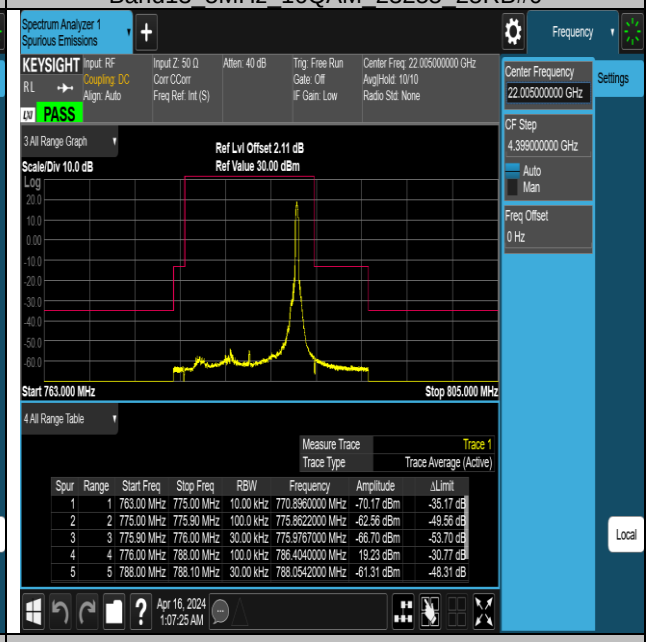


Band13_5MHz_16QAM_23255_1RB#24

Band13_5MHz_16QAM_23255_25RB#0

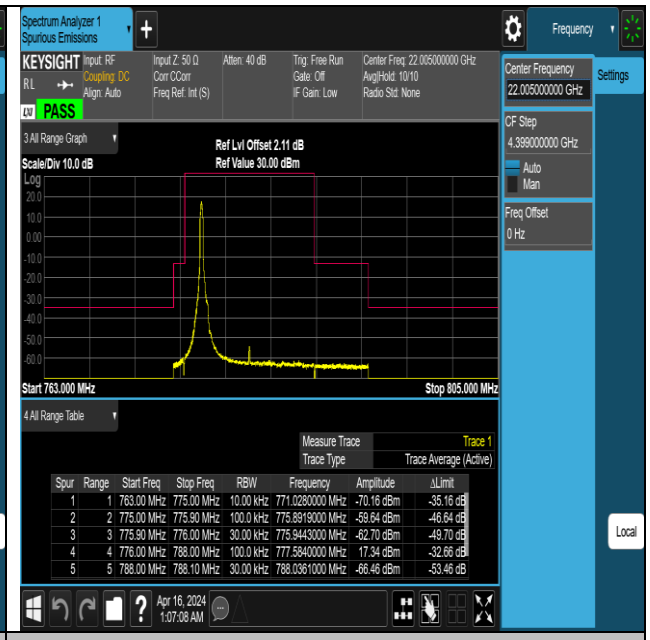


Band13_10MHz_QPSK_23230_1RB#0

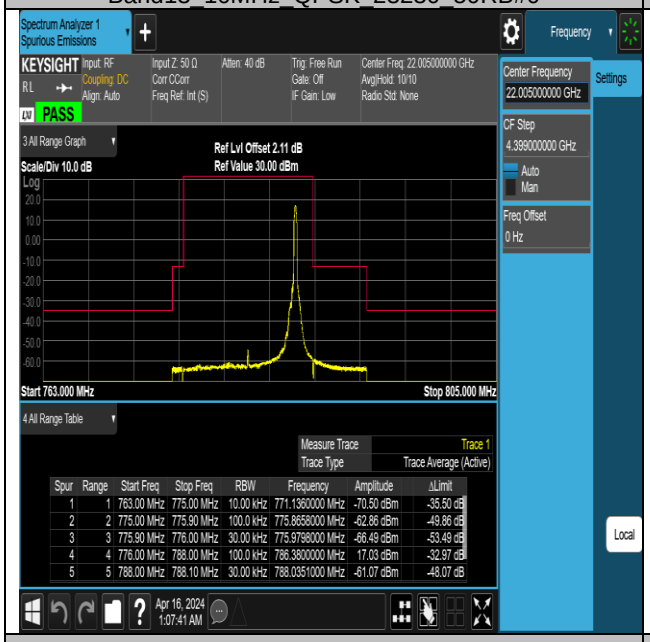


Band13_10MHz_QPSK_23230_1RB#49

Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_1RB#0



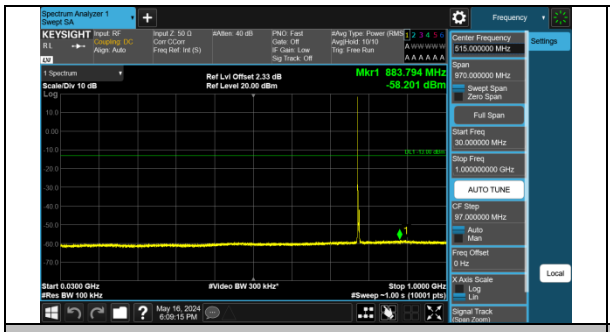
Band13_10MHz_16QAM_23230_1RB#49

Band13_10MHz_16QAM_23230_50RB#0

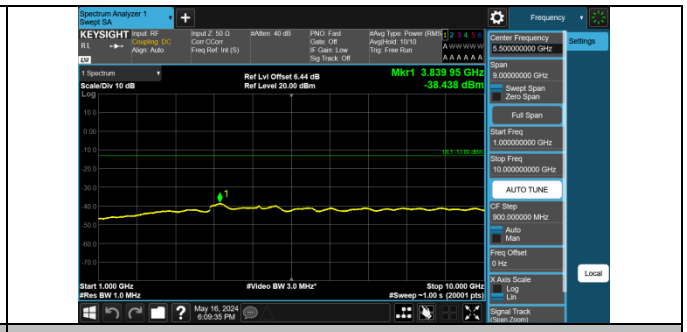
CONDUCTED SPURIOUS EMISSION
TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-58.20	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~10000	-38.44	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-58.38	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~10000	-38.44	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-58.30	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~10000	-38.35	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-58.07	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~10000	-38.50	PASS

TEST GRAPHS

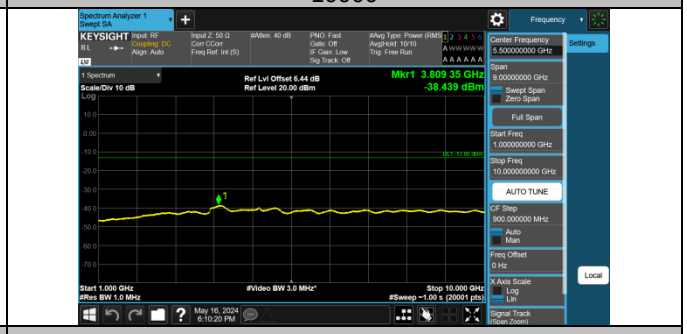


Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

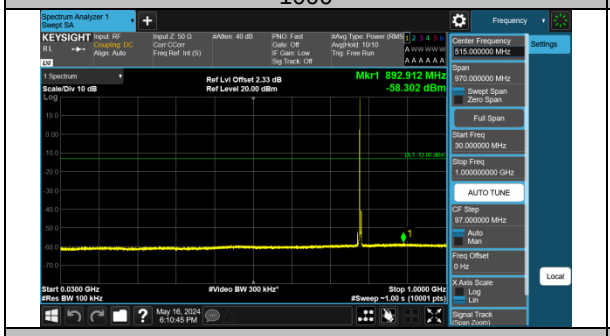


Band13_5MHz_QPSK_23205_1RB#0_1000~10000_1000~10000

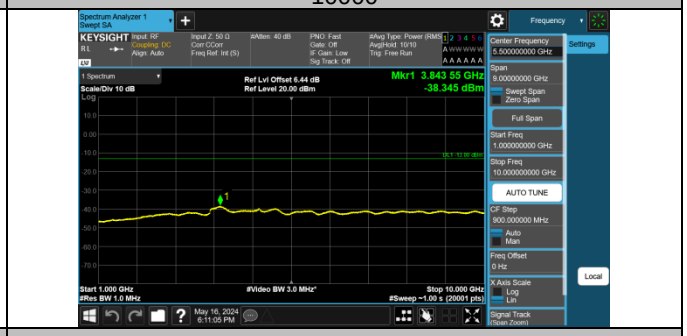
Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000



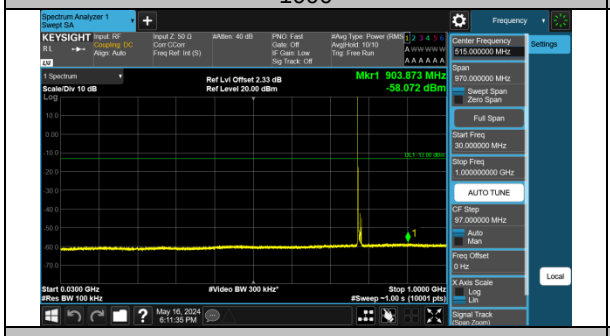
Band13_5MHz_QPSK_23230_1RB#0_1000~10000_1000~10000



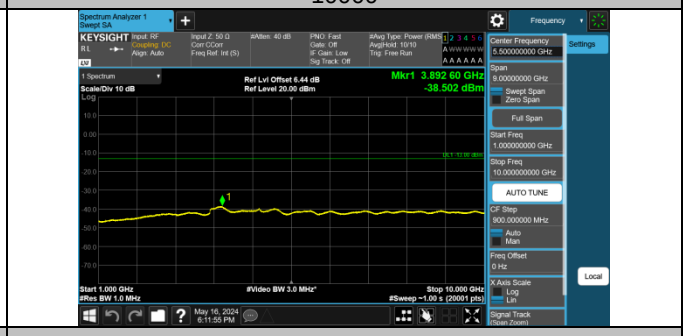
Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000



Band13_5MHz_QPSK_23255_1RB#0_1000~10000_1000~10000



Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000



Band13_10MHz_QPSK_23230_1RB#0_1000~10000_1000~10000

FREQUENCY STABILITY
TEST RESULT

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	VN	NT	873.63	1.12	777.25809	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VL	NT	869.79	1.12	777.2621	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	VH	NT	734.97	0.94	777.2635	--	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VN	NT	959.13	1.22	--	786.73468	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VL	NT	839.12	1.07	--	786.73578	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	VH	NT	599.10	0.76	--	786.73464	777-787	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB #0	NV	-30	-1290.00	-1.65	777.26156	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-20	60.00	0.08	777.26046	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	-10	-1050.00	-1.35	777.2616	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	0	-1210.00	-1.55	777.25964	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	10	-480.00	-0.62	777.26137	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	20	-1020.00	-1.31	777.25913	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	30	830.00	1.06	777.26303	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	40	-510.00	-0.65	777.25929	--	777-787	PASS
Band13	5MHz	QPSK	23205	25RB #0	NV	50	810.00	1.04	777.26176	--	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-30	910.29	1.16	--	786.73445	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-20	757.67	0.97	--	786.73536	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	-10	616.93	0.79	--	786.73412	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	0	442.45	0.56	--	786.73581	777-787	PASS

Band13	5MHz	QPSK	23255	25RB #0	NV	10	204.94	0.26	--	786.73323	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	20	74.90	0.10	--	786.73639	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	30	-69.12	-0.09	--	786.73514	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	40	-77.72	-0.10	--	786.73321	777-787	PASS
Band13	5MHz	QPSK	23255	25RB #0	NV	50	-367.44	-0.47	--	786.7324	777-787	PASS

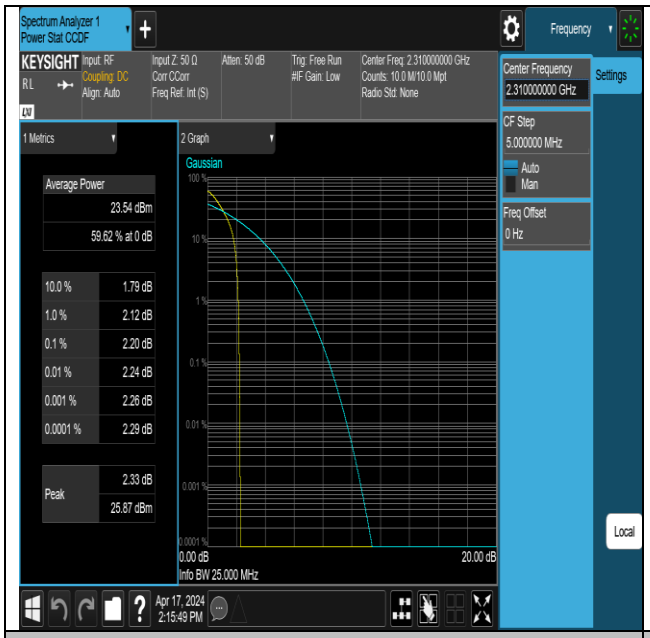
LTE BAND 30

PEAK-TO-AVERAGE RATIO(CCDF)

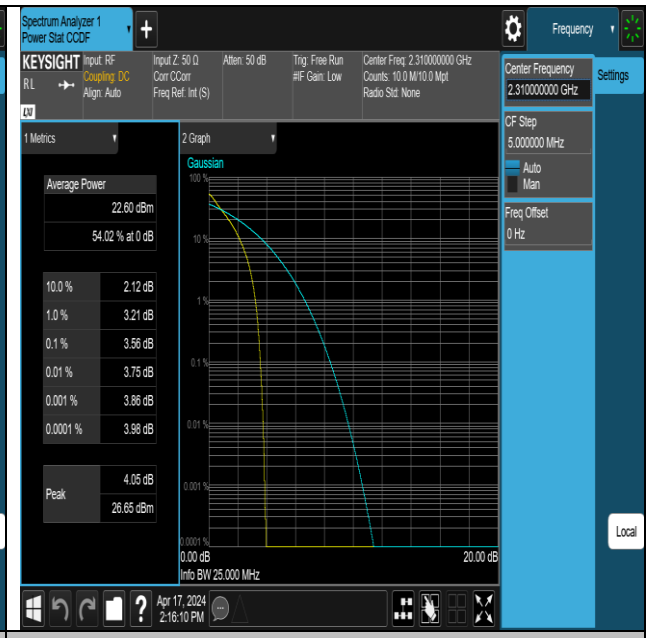
TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	2.20	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	3.56	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	3.34	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	4.42	13	PASS

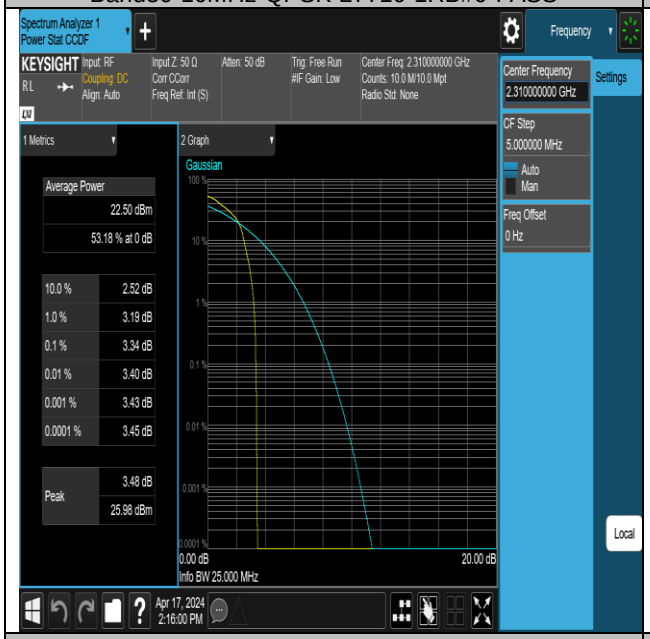
TEST GRAPHS



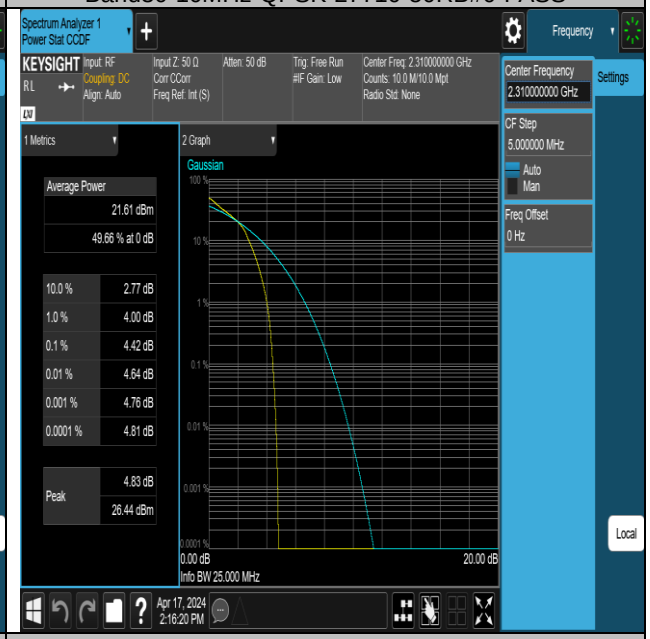
Band30-10MHz-QPSK-27710-1RB#0-PASS



Band30-10MHz-QPSK-27710-50RB#0-PASS



Band30-10MHz-16QAM-27710-1RB#0-PASS

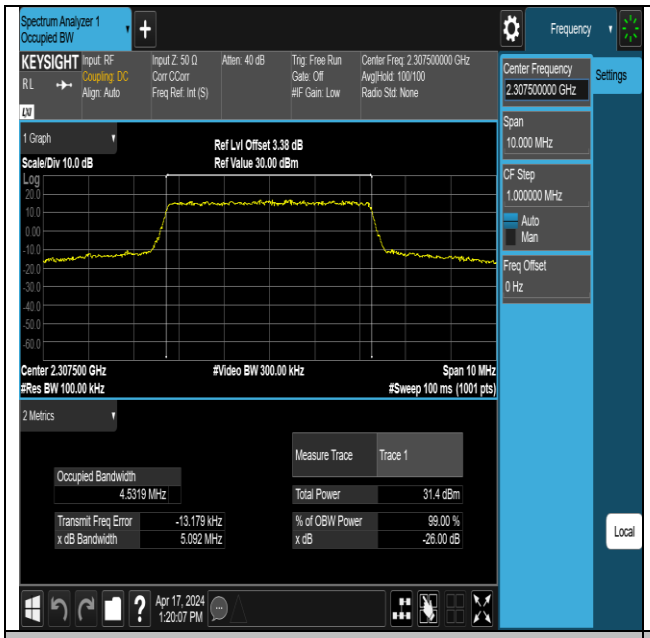


Band30-10MHz-16QAM-27710-50RB#0-PASS

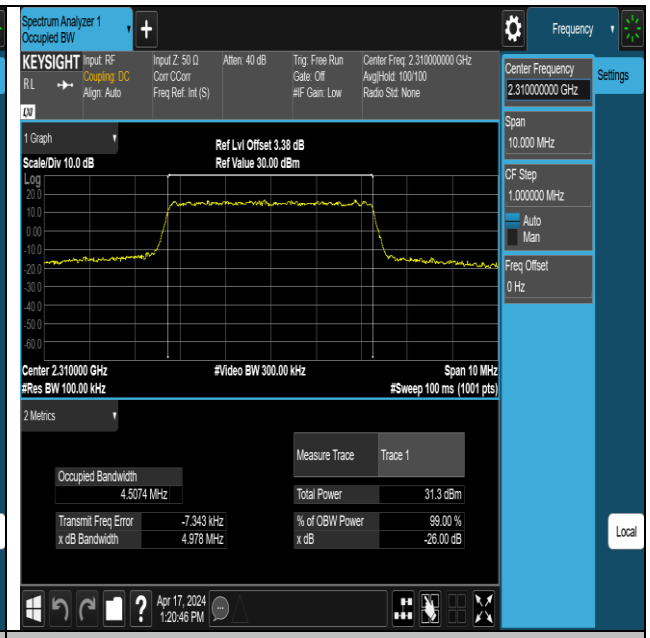
26DB BANDWIDTH AND OCCUPIED BANDWIDTH
TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.5319	5.092	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.5074	4.978	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.5215	5.065	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5232	5.038	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.5095	4.985	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.5155	5.013	PASS
Band30	10MHz	QPSK	27710	50RB#0	9.0009	9.903	PASS
Band30	10MHz	16QAM	27710	50RB#0	9.0007	9.841	PASS

TEST GRAPHS

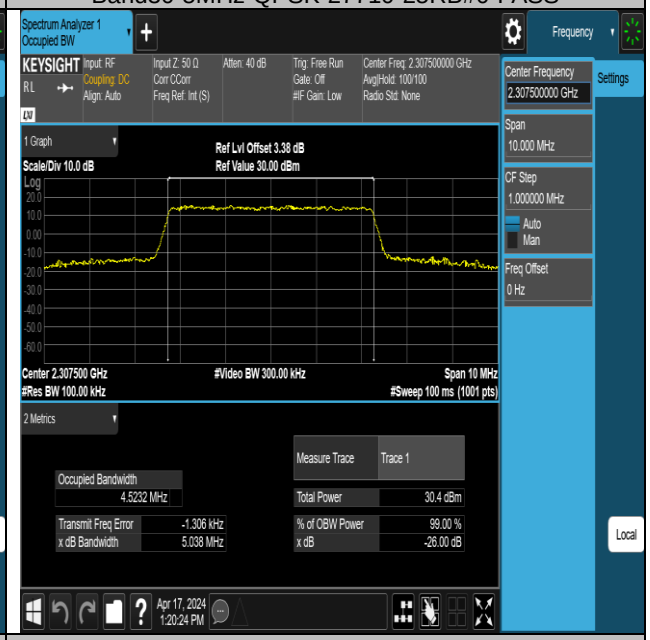


Band30-5MHz-QPSK-27685-25RB#0-PASS



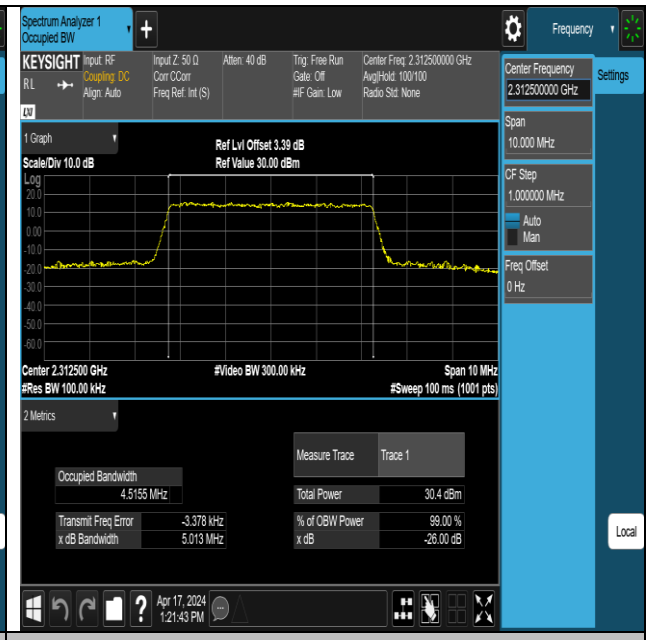
Band30-5MHz-QPSK-27710-25RB#0-PASS

Band30-5MHz-QPSK-27735-25RB#0-PASS

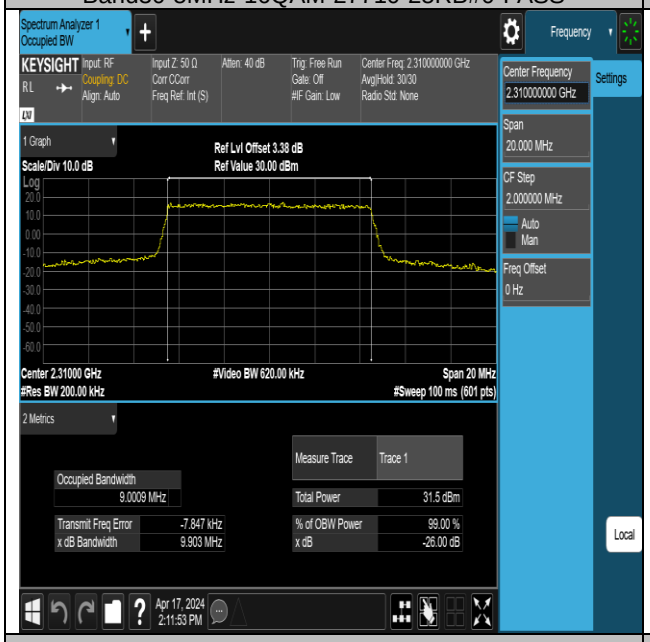


Band30-5MHz-16QAM-27685-25RB#0-PASS

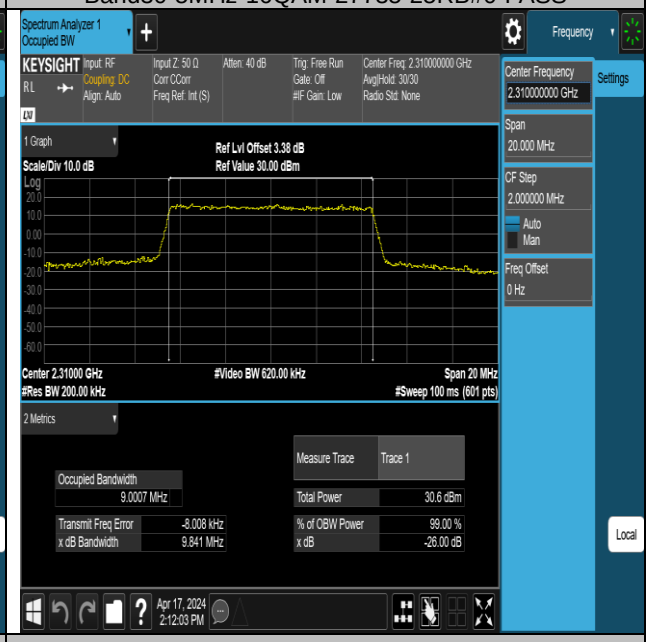
Band30-5MHz-16QAM-27710-25RB#0-PASS



Band30-5MHz-16QAM-27735-25RB#0-PASS



Band30-10MHz-QPSK-27710-50RB#0-PASS

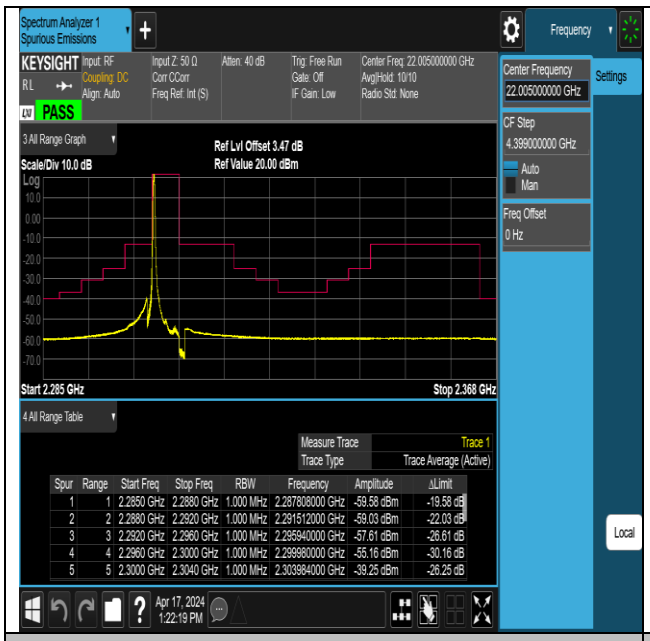


Band30-10MHz-16QAM-27710-50RB#0-PASS

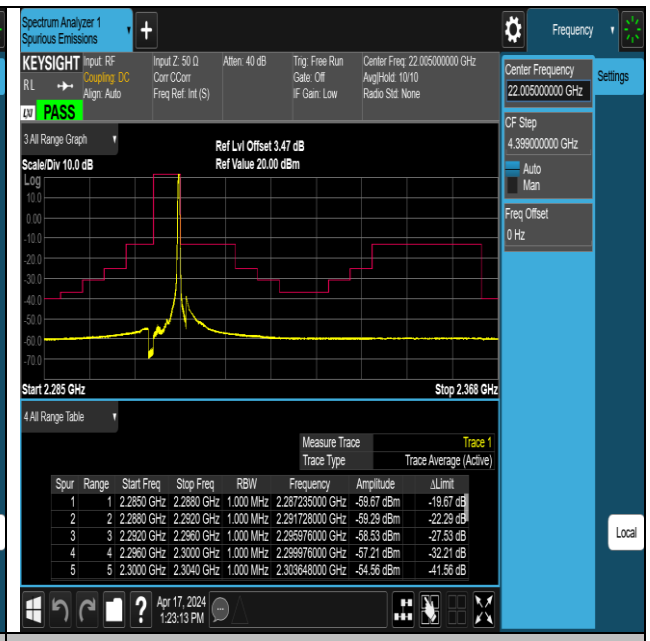
BAND EDGE
TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	-24.65	PASS
Band30	5MHz	QPSK	27685	1RB#24	-25.12	PASS
Band30	5MHz	QPSK	27685	25RB#0	-15.82	PASS
Band30	5MHz	QPSK	27735	1RB#0	-26.25	PASS
Band30	5MHz	QPSK	27735	1RB#24	-26.54	PASS
Band30	5MHz	QPSK	27735	25RB#0	-19.34	PASS
Band30	5MHz	16QAM	27685	1RB#0	-26.67	PASS
Band30	5MHz	16QAM	27685	1RB#24	-27.96	PASS
Band30	5MHz	16QAM	27685	25RB#0	-18.94	PASS
Band30	5MHz	16QAM	27735	1RB#0	-28.31	PASS
Band30	5MHz	16QAM	27735	1RB#24	-28.27	PASS
Band30	5MHz	16QAM	27735	25RB#0	-34.27	PASS
Band30	10MHz	QPSK	27710	1RB#0	-59.46	PASS
Band30	10MHz	QPSK	27710	1RB#49	-59.43	PASS
Band30	10MHz	QPSK	27710	50RB#0	-20.76	FAIL_Final1
Band30	10MHz	QPSK	27710	50RB#0	-31.01	PASS
Band30	10MHz	16QAM	27710	1RB#0	-59.58	PASS
Band30	10MHz	16QAM	27710	1RB#49	-59.57	PASS
Band30	10MHz	16QAM	27710	50RB#0	-26.02	PASS

TEST GRAPHS

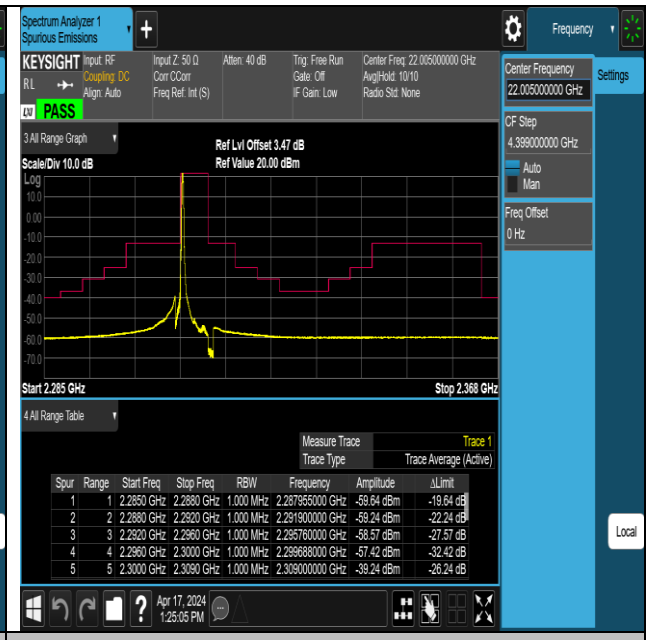


Band30_5MHz_QPSK_27685_1RB#0



Band30_5MHz_QPSK_27685_1RB#24

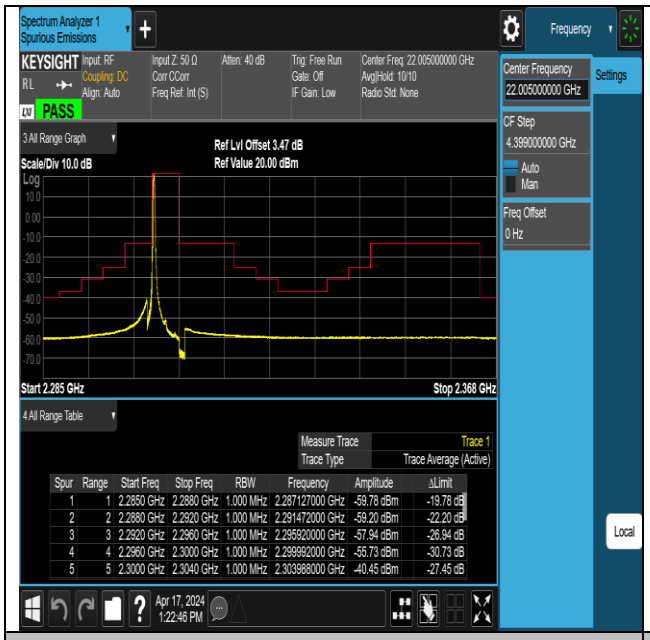
Band30_5MHz_QPSK_27685_25RB#0



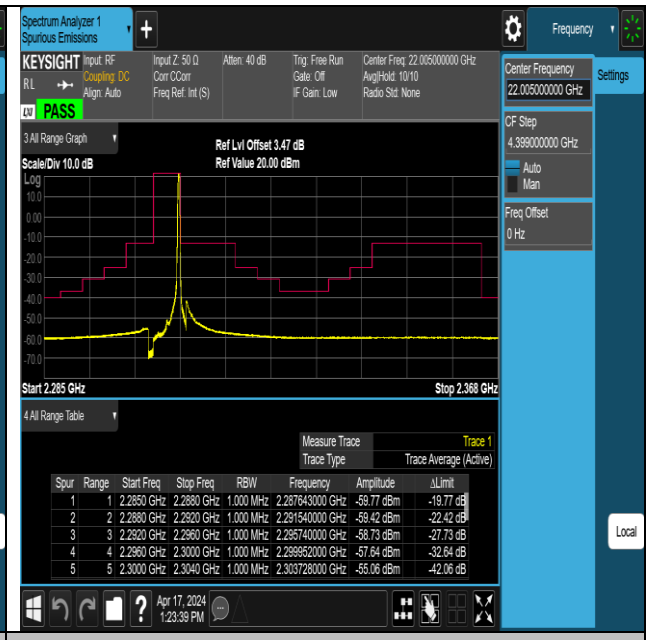
Band30_5MHz_QPSK_27735_1RB#0

Band30_5MHz_QPSK_27735_1RB#24

Band30_5MHz_QPSK_27735_25RB#0

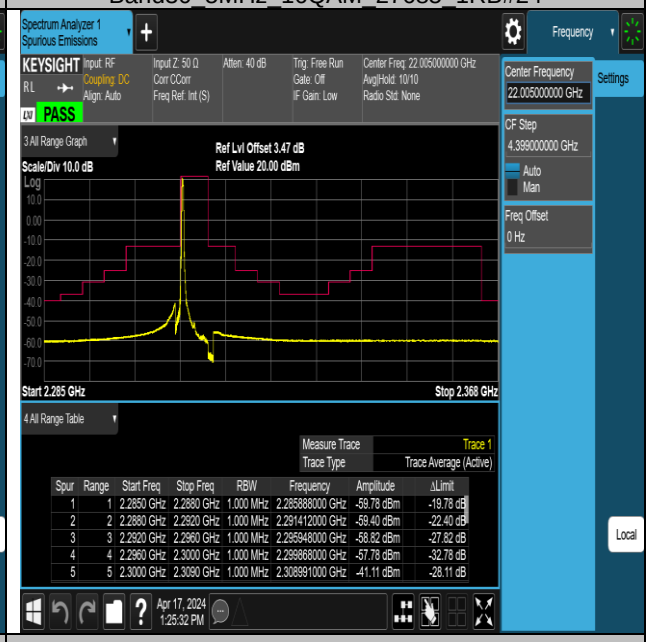


Band30_5MHz_16QAM_27685_1RB#0

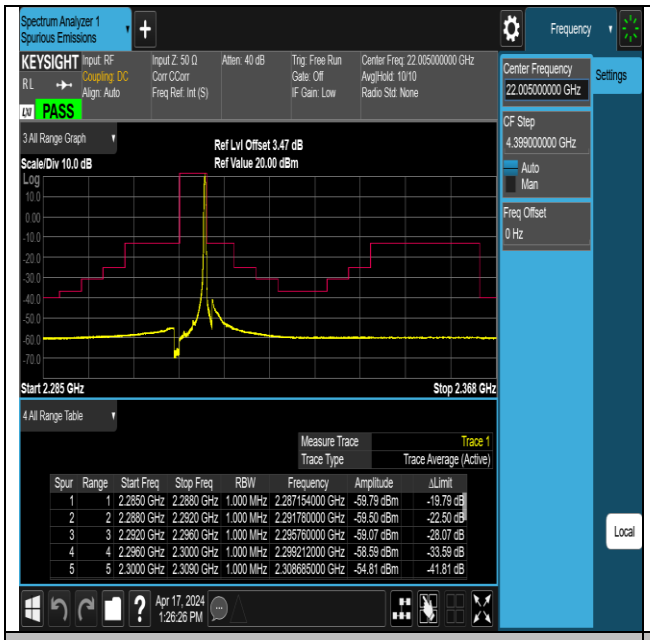


Band30_5MHz_16QAM_27685_1RB#24

Band30_5MHz_16QAM_27685_25RB#0

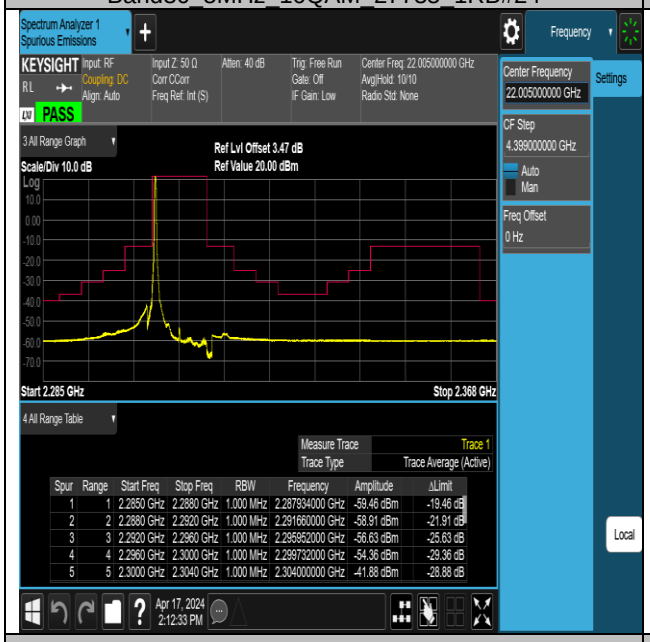


Band30_5MHz_16QAM_27735_1RB#0

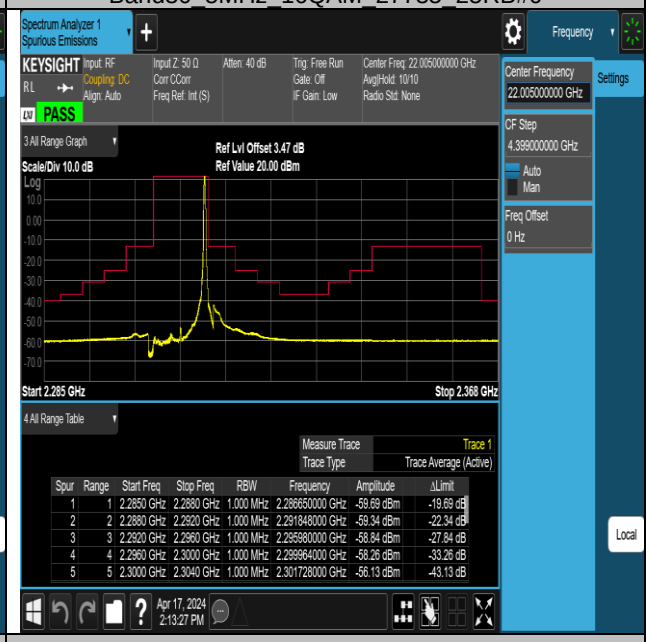


Band30_5MHz_16QAM_27735_1RB#24

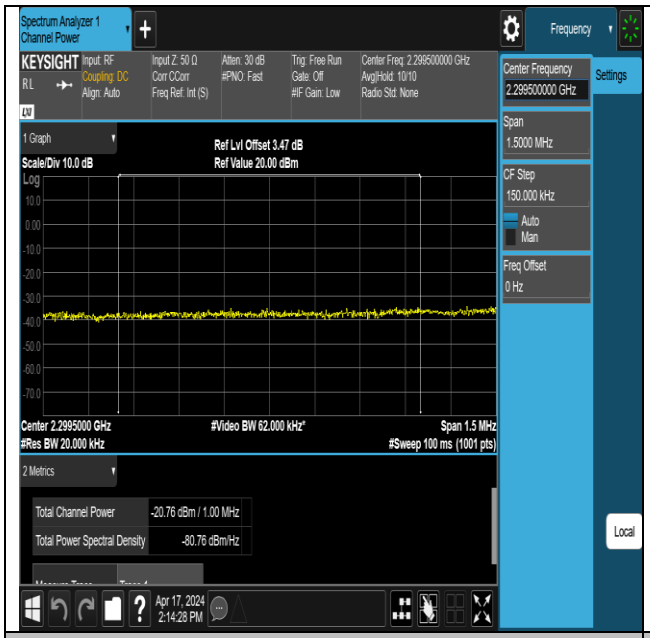
Band30_5MHz_16QAM_27735_25RB#0



Band30_10MHz_QPSK_27710_1RB#0

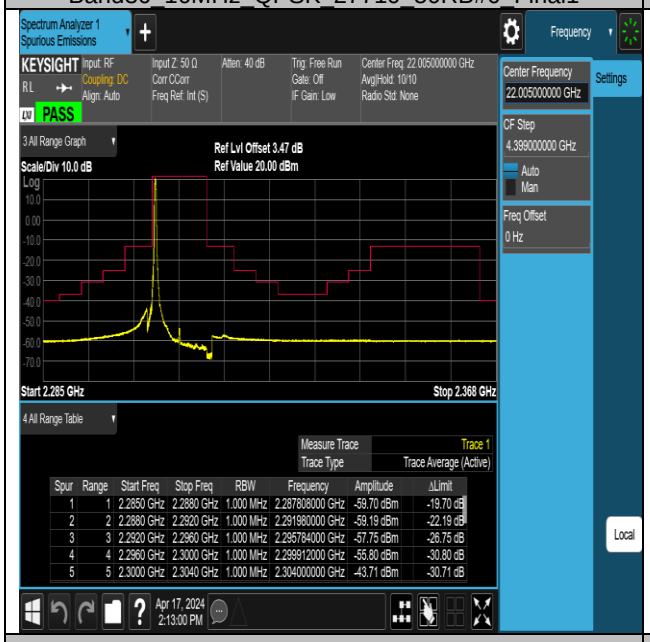


Band30_10MHz_QPSK_27710_1RB#49

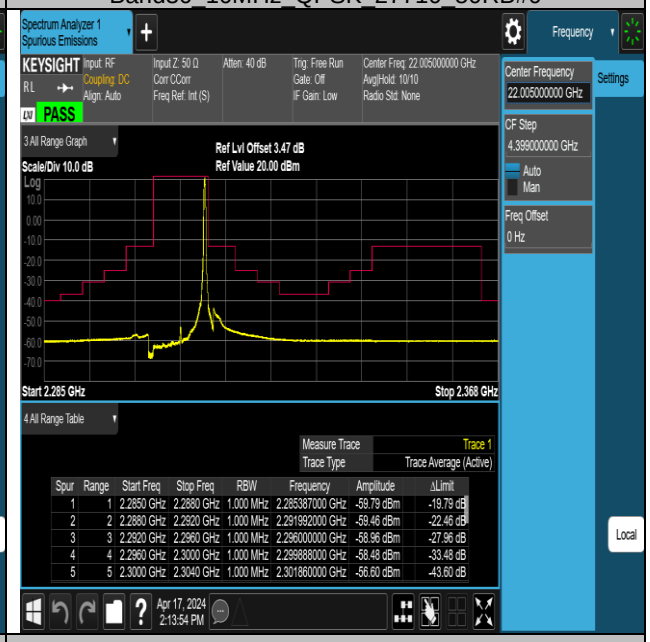


Band30_10MHz_QPSK_27710_50RB#0_Final1

Band30_10MHz_QPSK_27710_50RB#0



Band30_10MHz_16QAM_27710_1RB#0



Band30_10MHz_16QAM_27710_1RB#49

Band30_10MHz_16QAM_27710_50RB#0

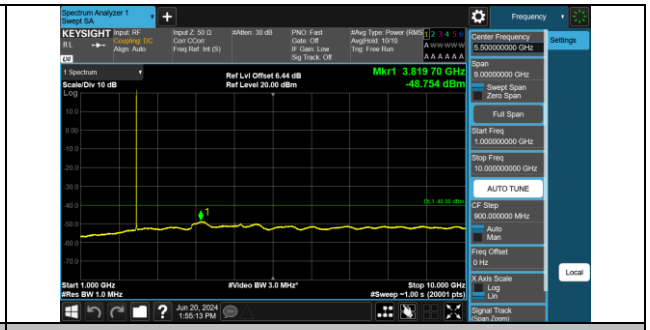
CONDUCTED SPURIOUS EMISSION

TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	30~1000	-59.05	PASS
Band30	5MHz	QPSK	27685	1RB#0	1000~10000	-48.75	PASS
Band30	5MHz	QPSK	27685	1RB#0	10000~20000	-56.42	PASS
Band30	5MHz	QPSK	27685	1RB#0	20000~26500	-54.35	PASS
Band30	5MHz	QPSK	27710	1RB#0	30~1000	-59.04	PASS
Band30	5MHz	QPSK	27710	1RB#0	1000~10000	-48.81	PASS
Band30	5MHz	QPSK	27710	1RB#0	10000~20000	-56.35	PASS
Band30	5MHz	QPSK	27710	1RB#0	20000~26500	-54.20	PASS
Band30	5MHz	QPSK	27735	1RB#0	30~1000	-59.02	PASS
Band30	5MHz	QPSK	27735	1RB#0	1000~10000	-48.75	PASS
Band30	5MHz	QPSK	27735	1RB#0	10000~20000	-56.37	PASS
Band30	5MHz	QPSK	27735	1RB#0	20000~26500	-54.32	PASS
Band30	10MHz	QPSK	27710	1RB#0	30~1000	-59.15	PASS
Band30	10MHz	QPSK	27710	1RB#0	1000~10000	-48.67	PASS
Band30	10MHz	QPSK	27710	1RB#0	10000~20000	-56.44	PASS
Band30	10MHz	QPSK	27710	1RB#0	20000~26500	-54.33	PASS

TEST GRAPHS

Band30_5MHz_QPSK_27685_1RB#0_30~1000_30~1000



Band30_5MHz_QPSK_27685_1RB#0_1000~10000_1000~10000

Band30_5MHz_QPSK_27685_1RB#0_10000~20000_10000~20000

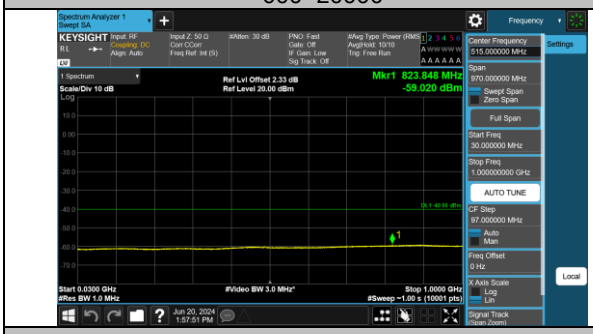
Band30_5MHz_QPSK_27685_1RB#0_20000~26500_20000~26500

Band30_5MHz_QPSK_27710_1RB#0_30~1000_30~1000

Band30_5MHz_QPSK_27710_1RB#0_1000~10000_1000~10000

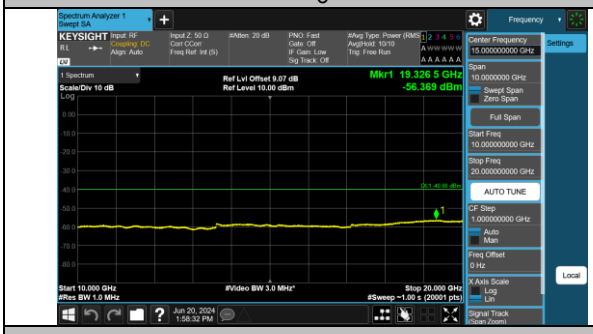
Band30_5MHz_QPSK_27710_1RB#0_10000~20000_10000~20000

Band30_5MHz_QPSK_27710_1RB#0_20000~26500_20000~26500



Band30_5MHz_QPSK_27735_1RB#0_30~1000_30~1000

Band30_5MHz_QPSK_27735_1RB#0_1000~10000_1000~10000



Band30_5MHz_QPSK_27735_1RB#0_10000~20000_10000~20000

Band30_5MHz_QPSK_27735_1RB#0_20000~26500_20000~26500

Band30_10MHz_QPSK_27710_1RB#0_30~1000_30~1000

Band30_10MHz_QPSK_27710_1RB#0_1000~10000_1000~10000

Band30_10MHz_QPSK_27710_1RB#0_10000~20000_10000~20000

Band30_10MHz_QPSK_27710_1RB#0_20000~26500_20000~26500

FREQUENCY STABILITY
TEST RESULT

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB #0	VN	NT	-3440.00	-1.49	2305.25636	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	VL	NT	-4350.00	-1.89	2305.2548	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	VH	NT	-5100.00	-2.21	2305.25485	--	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	VN	NT	-3510.00	-1.52	--	2314.73349	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	VL	NT	-3190.00	-1.38	--	2314.73531	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	VH	NT	-1770.00	-0.77	--	2314.73653	2305-2315	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB #0	NV	-30	-4360.00	-1.89	2305.25494	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	-20	952.20	0.41	2305.25471	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	-10	-4820.00	-2.09	2305.25493	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	0	-3020.00	-1.31	2305.25728	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	10	-4540.00	-1.97	2305.25621	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	20	-5380.00	-2.33	2305.25187	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	30	-3370.00	-1.46	2305.25533	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	40	-3020.00	-1.31	2305.25733	--	2305-2315	PASS
Band30	5MHz	QPSK	27685	25RB #0	NV	50	-3460.00	-1.50	2305.25504	--	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	-30	-890.00	-0.38	--	2314.73756	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	-20	-1470.00	-0.64	--	2314.73623	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	-10	-4150.00	-1.79	--	2314.73475	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	0	-90.00	-0.04	--	2314.73671	2305-2315	PASS
Band3	5MHz	QPSK	27735	25RB	NV	10	-1590.	-0.69	--	2314.	2305-	PASS

0				#0			00			73431	2315	
Band30	5MHz	QPSK	27735	25RB #0	NV	20	-1320.00	-0.57	--	2314.73678	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	30	-4440.00	-1.92	--	2314.73431	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	40	-2820.00	-1.22	--	2314.73423	2305-2315	PASS
Band30	5MHz	QPSK	27735	25RB #0	NV	50	-1730.00	-0.75	--	2314.73422	2305-2315	PASS

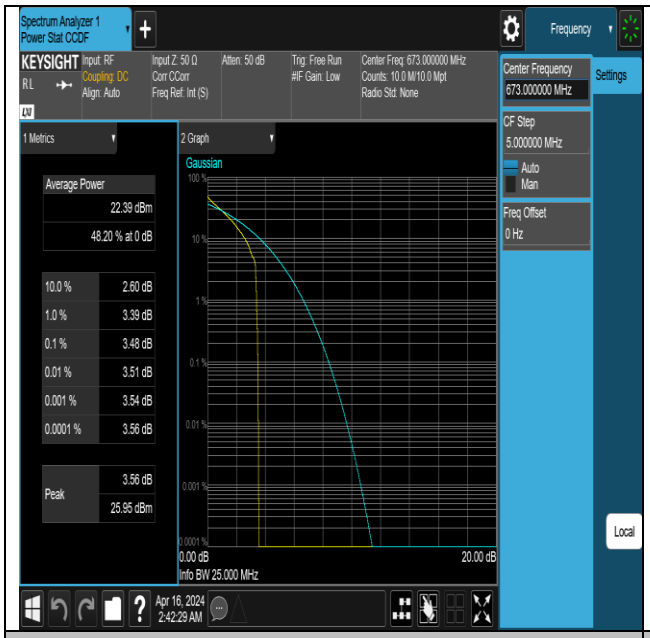
LTE BAND 71

PEAK-TO-AVERAGE RATIO(CCDF)

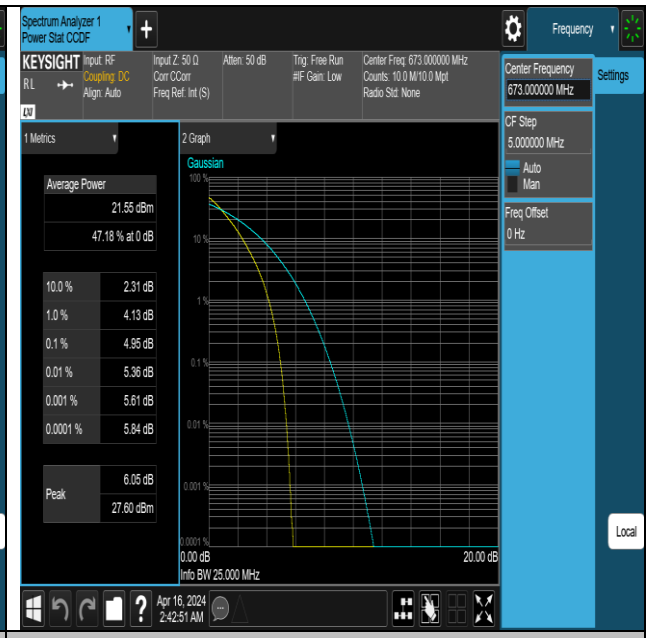
TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	1RB#0	3.48	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	4.95	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	8.42	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.99	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	8.42	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.01	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.39	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.70	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	8.43	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.80	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	5.08	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.81	13	PASS

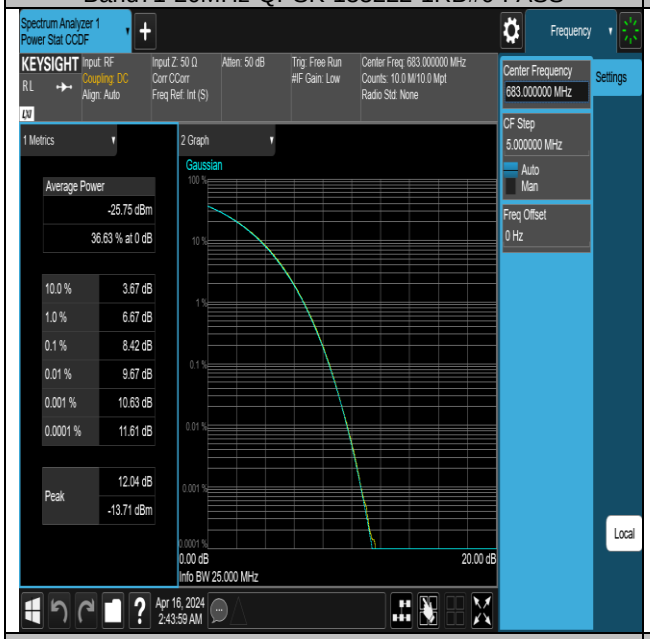
TEST GRAPHS



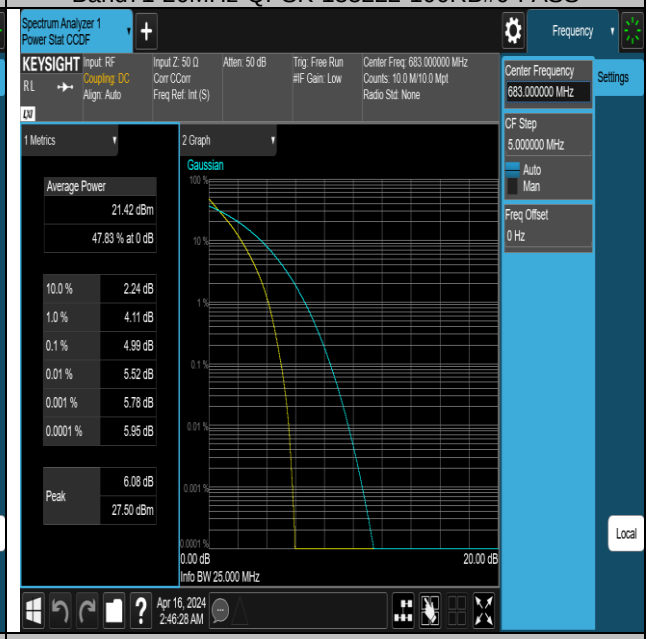
Band71-20MHz-QPSK-133222-1RB#0-PASS



Band71-20MHz-QPSK-133222-100RB#0-PASS



Band71-20MHz-QPSK-133322-1RB#0-PASS



Band71-20MHz-QPSK-133322-100RB#0-PASS