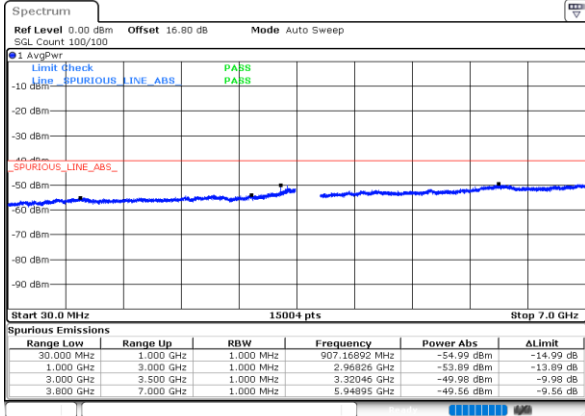


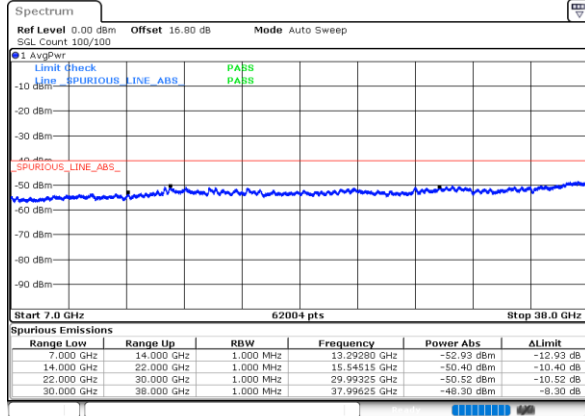


LTE Band 48 / 15MHz

Lowest Channel / QPSK

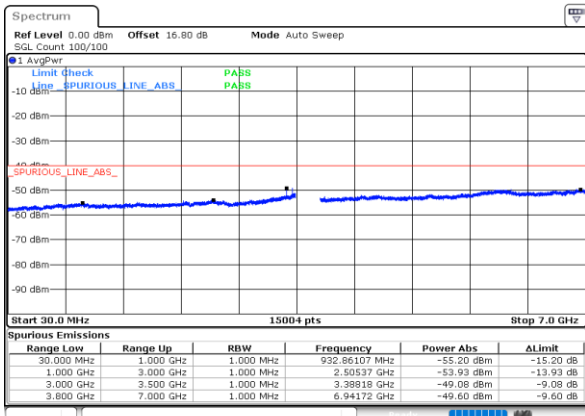


Date: 20_JUL_2023 02:46:38

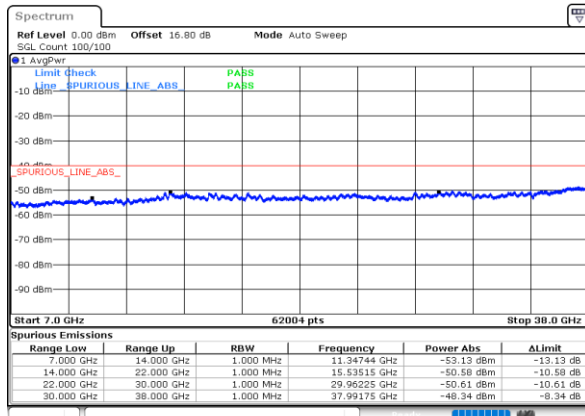


Date: 28_JUL_2023 14:57:26

Middle Channel / QPSK

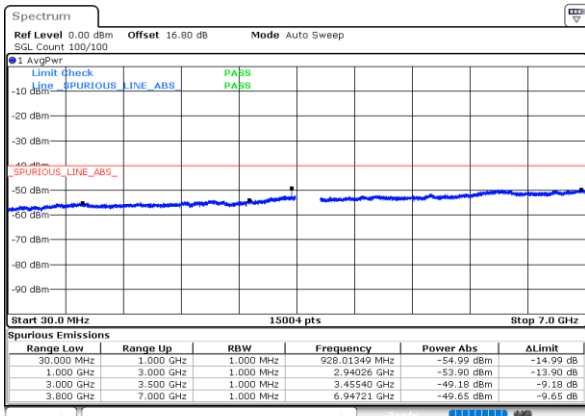


Date: 20_JUL_2023 02:47:46

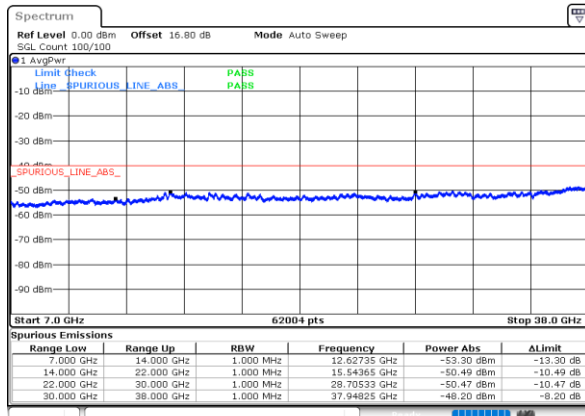


Date: 28_JUL_2023 14:59:05

Highest Channel / QPSK



Date: 20_JUL_2023 02:48:54

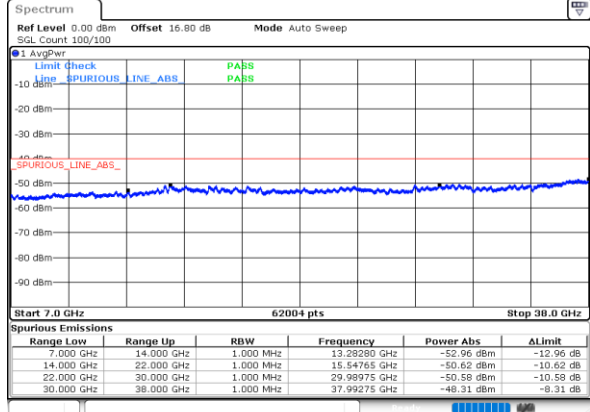
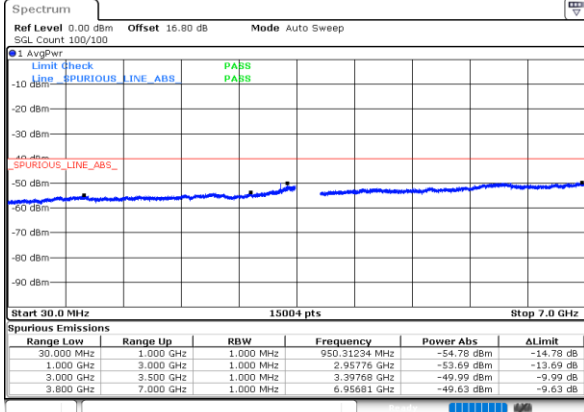


Date: 28_JUL_2023 15:00:43

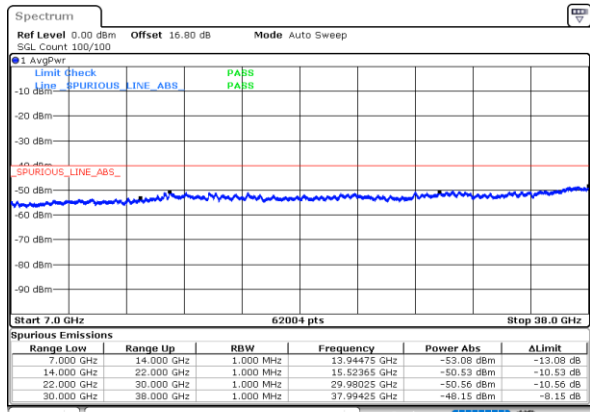
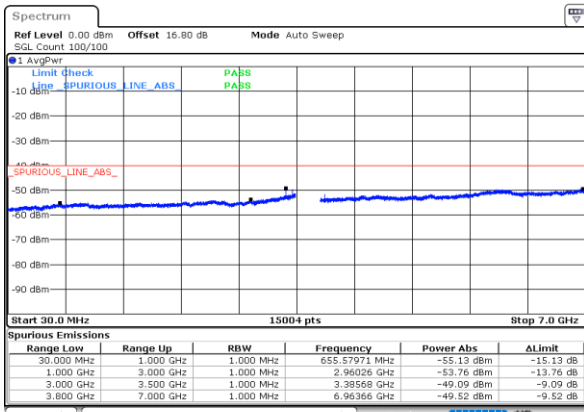


LTE Band 48 / 20MHz

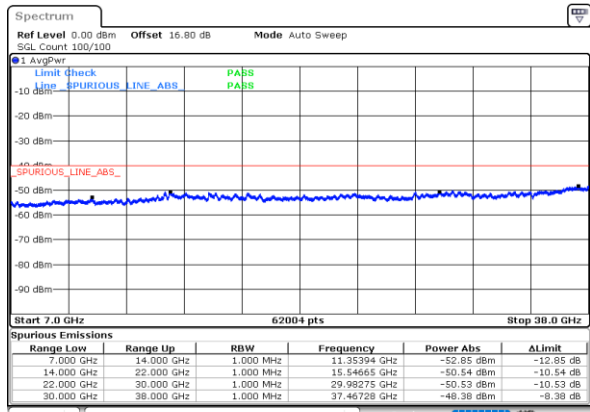
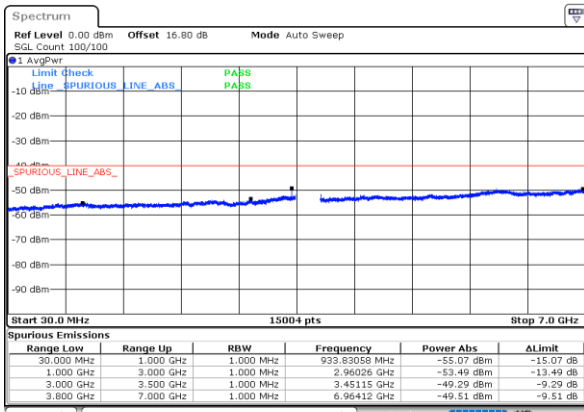
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

- 1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	PoI	Ant
96	1	H	11043.000	-53.59	RMS	38.91	-50.54	-6.33	-95.23	59.60	-40.00	-13.59	V	Tx0Rx0
96	2	L	28409.000	-54.82	RMS	40.00	-29.12	0.00	-95.23	29.53	-40.00	-14.82	V	Tx1Rx1

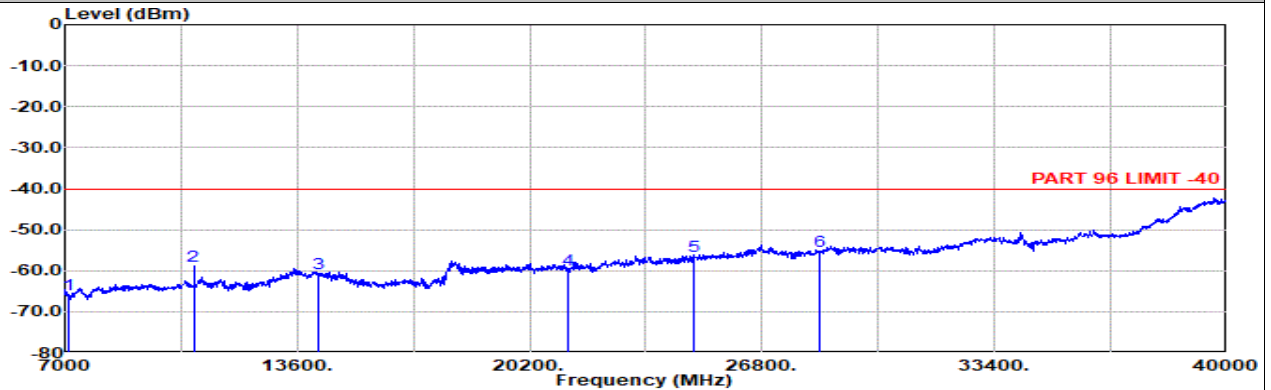


Tx0Rx0

Part 96 Mode 1

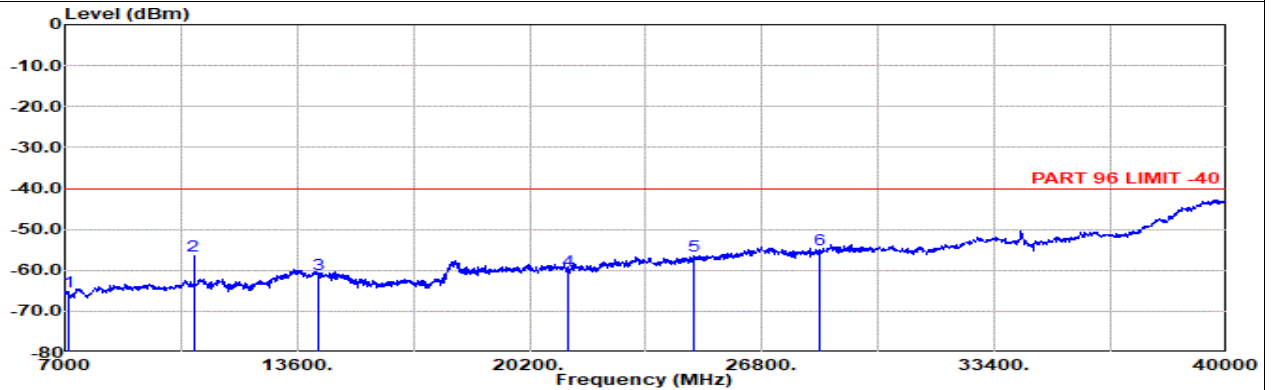
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch55340 1RB0 QPSK

1	2	3	4	5	6					
Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
7102.00	-65.95	RMS	36.52	-53.17	-5.11	-95.23	0.00	-40.00	-25.95	Horizontal
10653.00	-58.77	RMS	39.30	-51.29	-6.25	-95.23	54.70	-40.00	-18.77	Horizontal
14204.00	-60.81	RMS	41.09	-47.48	-6.95	-95.23	47.76	-40.00	-20.81	Horizontal
21307.00	-59.68	RMS	37.96	-31.66	0.00	-95.23	29.25	-40.00	-19.68	Horizontal
24858.00	-56.40	RMS	39.77	-29.86	0.00	-95.23	28.92	-40.00	-16.40	Horizontal
28409.00	-55.33	RMS	40.00	-29.12	0.00	-95.23	29.02	-40.00	-15.33	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch55340 1RB0 QPSK

1	2	3	4	5	6					
Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
7102.00	-65.29	RMS	36.52	-53.17	-5.11	-95.23	51.70	-40.00	-25.29	Vertical
10653.00	-56.37	RMS	39.30	-51.29	-6.25	-95.23	57.10	-40.00	-16.37	Vertical
14204.00	-61.04	RMS	41.09	-47.48	-6.95	-95.23	47.53	-40.00	-21.04	Vertical
21307.00	-60.05	RMS	37.96	-31.66	0.00	-95.23	28.88	-40.00	-20.05	Vertical
24858.00	-56.49	RMS	39.77	-29.86	0.00	-95.23	28.83	-40.00	-16.49	Vertical
28409.00	-55.03	RMS	40.00	-29.12	0.00	-95.23	29.32	-40.00	-15.03	Vertical

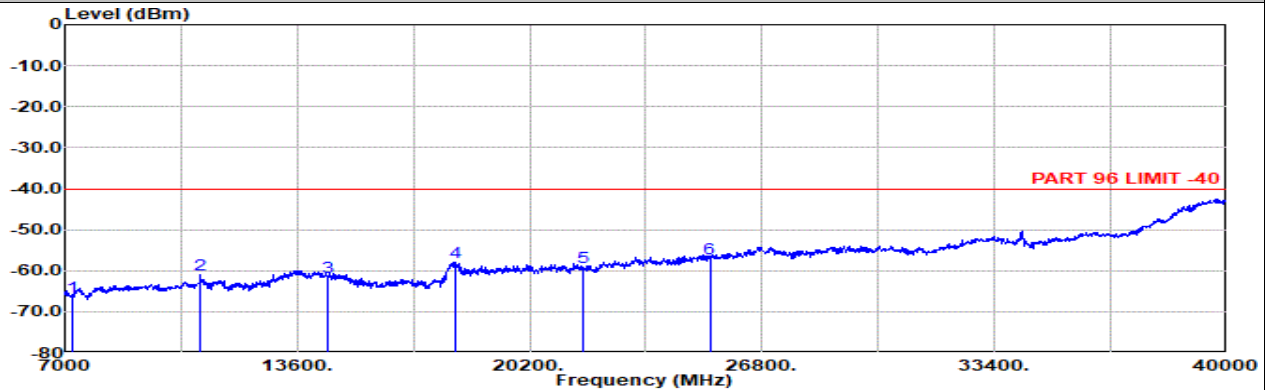


Tx0Rx0

Part 96 Mode 1

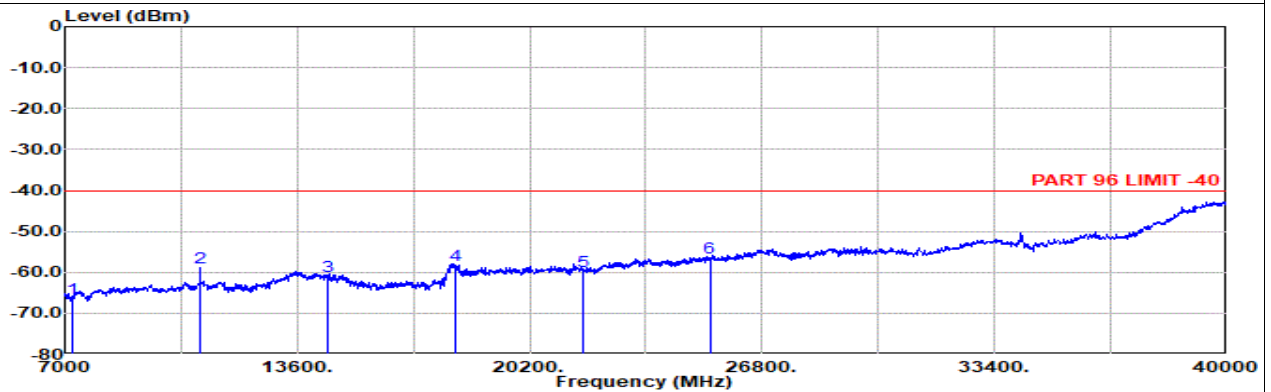
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.37	RMS	37.16	-53.25	-5.23	-95.23	50.18	-40.00	-26.37	Horizontal
2	10848.00	-60.89	RMS	39.30	-50.91	-6.29	-95.23	52.24	-40.00	-20.89	Horizontal
3	14464.00	-61.66	RMS	40.80	-47.10	-7.01	-95.23	46.88	-40.00	-21.66	Horizontal
4	18081.00	-58.04	RMS	37.50	-34.13	0.00	-95.23	33.82	-40.00	-18.04	Horizontal
5	21697.00	-59.26	RMS	38.10	-31.62	0.00	-95.23	29.49	-40.00	-19.26	Horizontal
6	25313.00	-56.98	RMS	39.25	-29.52	0.00	-95.23	28.52	-40.00	-16.98	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.32	RMS	37.16	-53.25	-5.23	-95.23	50.23	-40.00	-26.32	Vertical
2	10848.00	-58.88	RMS	39.30	-50.91	-6.29	-95.23	54.25	-40.00	-18.88	Vertical
3	14464.00	-61.03	RMS	40.80	-47.10	-7.01	-95.23	47.51	-40.00	-21.03	Vertical
4	18081.00	-58.37	RMS	37.50	-34.13	0.00	-95.23	33.49	-40.00	-18.37	Vertical
5	21697.00	-59.72	RMS	38.10	-31.62	0.00	-95.23	29.03	-40.00	-19.72	Vertical
6	25313.00	-56.59	RMS	39.25	-29.52	0.00	-95.23	28.91	-40.00	-16.59	Vertical

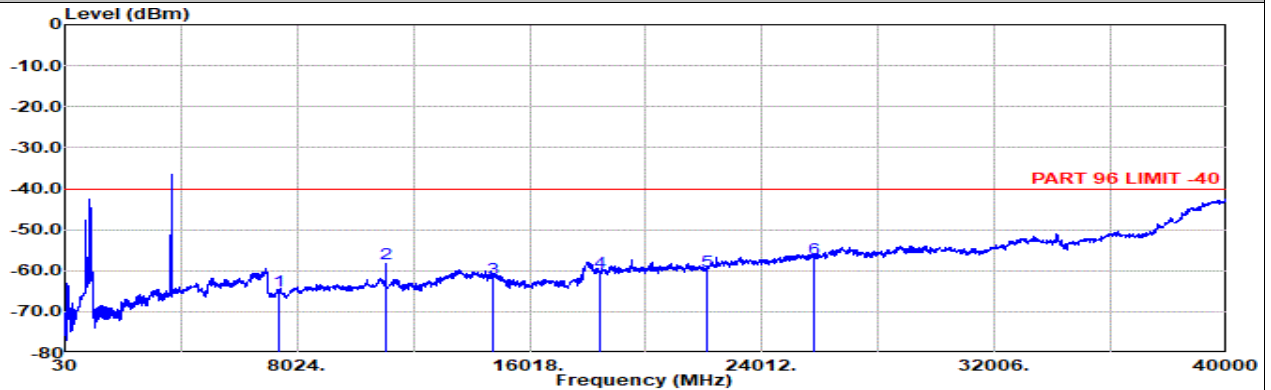


Tx0Rx0

Part 96 Mode 1

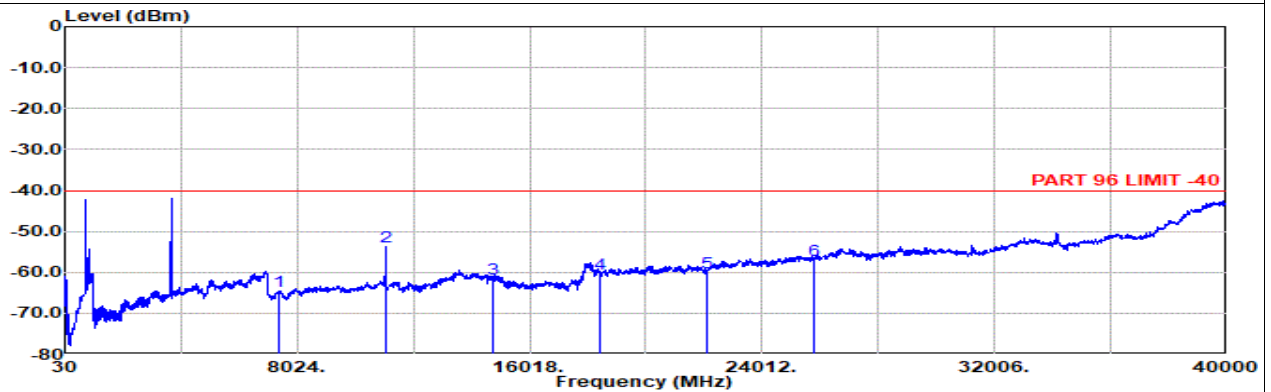
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-64.83	RMS	36.93	-53.19	-5.19	-95.23	51.85	-40.00	-24.83	Horizontal
2	11043.00	-58.32	RMS	38.91	-50.54	-6.33	-95.23	54.87	-40.00	-18.32	Horizontal
3	14724.00	-61.80	RMS	40.65	-46.98	-7.07	-95.23	46.83	-40.00	-21.80	Horizontal
4	18406.00	-60.32	RMS	37.86	-34.08	0.00	-95.23	31.13	-40.00	-20.32	Horizontal
5	22087.00	-60.02	RMS	38.08	-31.61	0.00	-95.23	28.74	-40.00	-20.02	Horizontal
6	25768.00	-57.13	RMS	39.04	-29.13	0.00	-95.23	28.19	-40.00	-17.13	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-64.51	RMS	36.93	-53.19	-5.19	-95.23	52.17	-40.00	-24.51	Vertical
2	11043.00	-53.59	RMS	38.91	-50.54	-6.33	-95.23	59.60	-40.00	-13.59	Vertical
3	14724.00	-61.44	RMS	40.65	-46.98	-7.07	-95.23	47.19	-40.00	-21.44	Vertical
4	18406.00	-60.50	RMS	37.86	-34.08	0.00	-95.23	30.95	-40.00	-20.50	Vertical
5	22087.00	-60.05	RMS	38.08	-31.61	0.00	-95.23	28.71	-40.00	-20.05	Vertical
6	25768.00	-56.92	RMS	39.04	-29.13	0.00	-95.23	28.40	-40.00	-16.92	Vertical

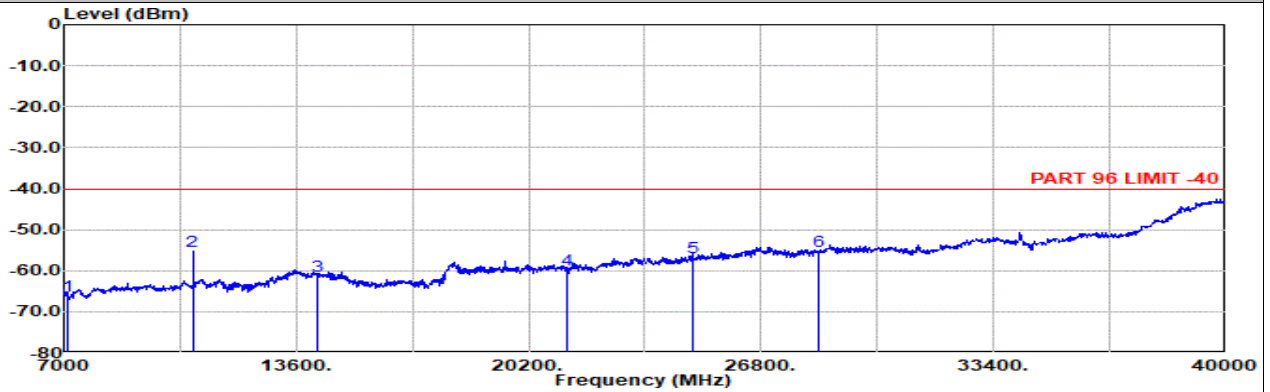


Tx1Rx1

Part 96 Mode 2

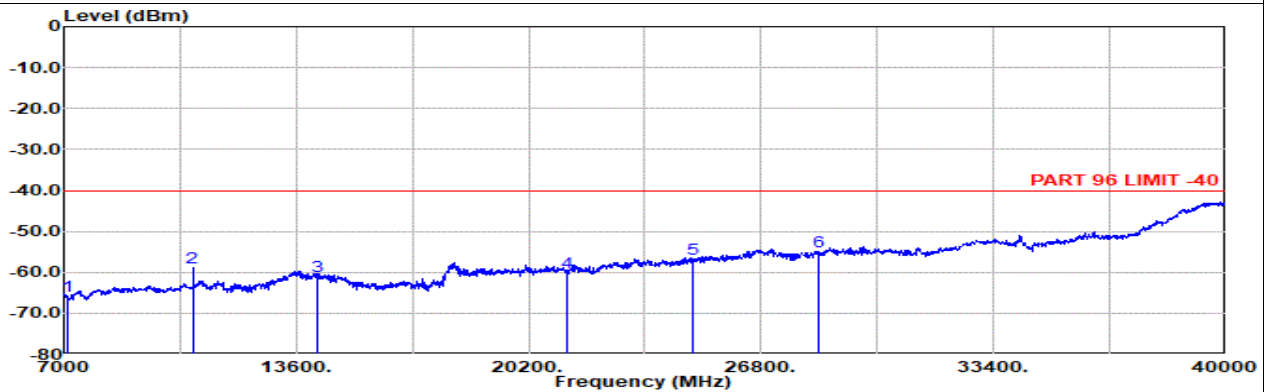
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-66.08	RMS	36.52	-53.17	-5.11	-95.23	50.91	-40.00	-26.08	Horizontal
2	10653.00	-55.26	RMS	39.30	-51.29	-6.25	-95.23	58.21	-40.00	-15.26	Horizontal
3	14204.00	-61.26	RMS	41.09	-47.48	-6.95	-95.23	47.31	-40.00	-21.26	Horizontal
4	21307.00	-59.89	RMS	37.96	-31.66	0.00	-95.23	29.04	-40.00	-19.89	Horizontal
5	24858.00	-56.81	RMS	39.77	-29.86	0.00	-95.23	28.51	-40.00	-16.81	Horizontal
6	28409.00	-55.11	RMS	40.00	-29.12	0.00	-95.23	29.24	-40.00	-15.11	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-65.93	RMS	36.52	-53.17	-5.11	-95.23	51.06	-40.00	-25.93	Vertical
2	10653.00	-58.96	RMS	39.30	-51.29	-6.25	-95.23	54.51	-40.00	-18.96	Vertical
3	14204.00	-60.94	RMS	41.09	-47.48	-6.95	-95.23	47.63	-40.00	-20.94	Vertical
4	21307.00	-60.13	RMS	37.96	-31.66	0.00	-95.23	28.80	-40.00	-20.13	Vertical
5	24858.00	-56.79	RMS	39.77	-29.86	0.00	-95.23	28.53	-40.00	-16.79	Vertical
6	28409.00	-54.82	RMS	40.00	-29.12	0.00	-95.23	29.53	-40.00	-14.82	Vertical

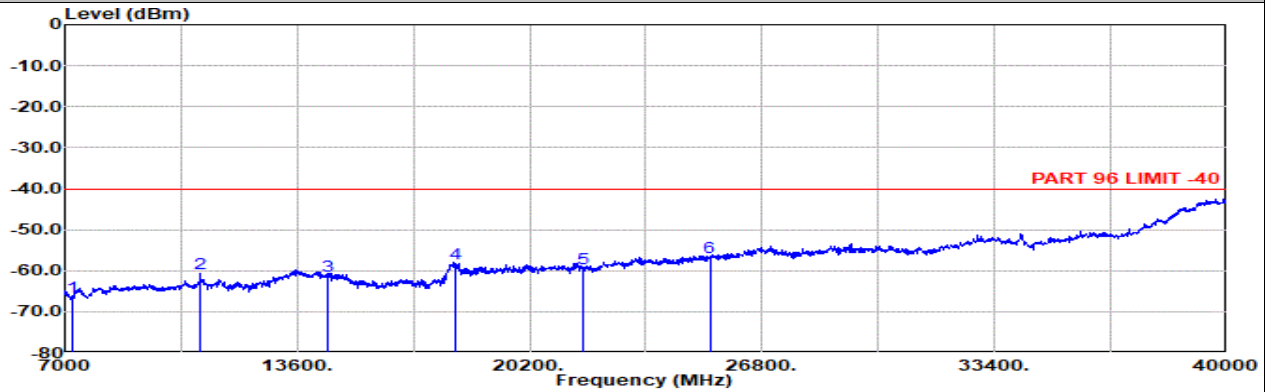


Tx1Rx1

Part 96 Mode 2

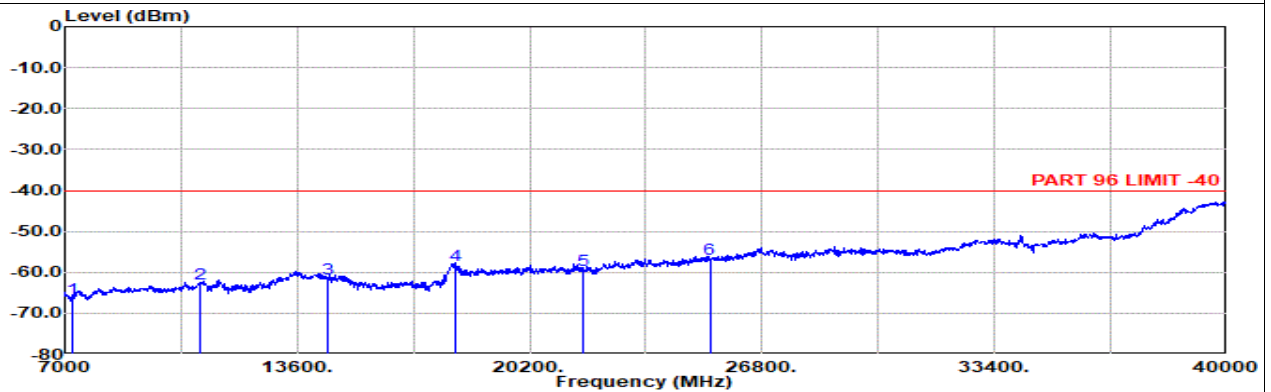
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.42	RMS	37.16	-53.25	-5.23	-95.23	50.13	-40.00	-26.42	Horizontal
2	10848.00	-60.80	RMS	39.30	-50.91	-6.29	-95.23	52.33	-40.00	-20.80	Horizontal
3	14464.00	-61.39	RMS	40.80	-47.10	-7.01	-95.23	47.15	-40.00	-21.39	Horizontal
4	18081.00	-58.15	RMS	37.50	-34.13	0.00	-95.23	33.71	-40.00	-18.15	Horizontal
5	21697.00	-59.52	RMS	38.10	-31.62	0.00	-95.23	29.23	-40.00	-19.52	Horizontal
6	25313.00	-56.75	RMS	39.25	-29.52	0.00	-95.23	28.75	-40.00	-16.75	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.39	RMS	37.16	-53.25	-5.23	-95.23	50.16	-40.00	-26.39	Vertical
2	10848.00	-62.85	RMS	39.30	-50.91	-6.29	-95.23	50.28	-40.00	-22.85	Vertical
3	14464.00	-61.71	RMS	40.80	-47.10	-7.01	-95.23	46.83	-40.00	-21.71	Vertical
4	18081.00	-58.14	RMS	37.50	-34.13	0.00	-95.23	33.72	-40.00	-18.14	Vertical
5	21697.00	-59.49	RMS	38.10	-31.62	0.00	-95.23	29.26	-40.00	-19.49	Vertical
6	25313.00	-56.83	RMS	39.25	-29.52	0.00	-95.23	28.67	-40.00	-16.83	Vertical

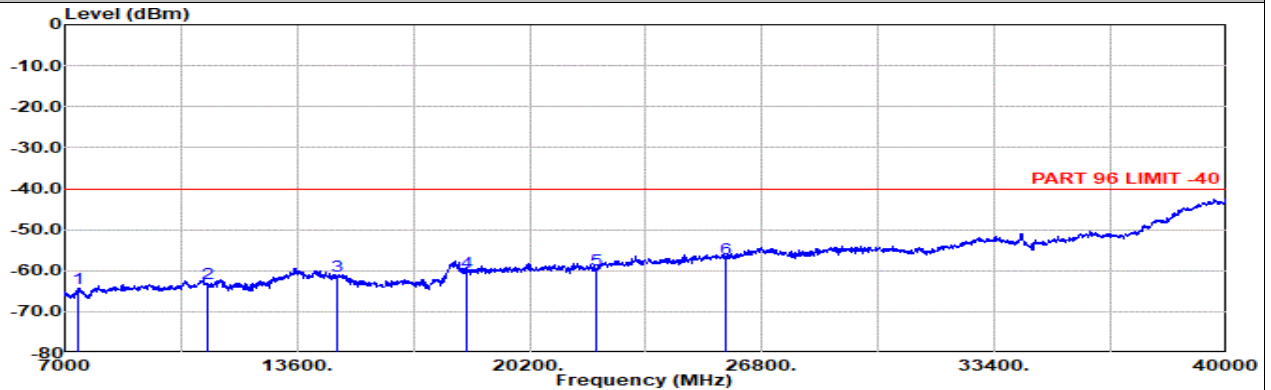


Tx1Rx1

Part 96 Mode 2

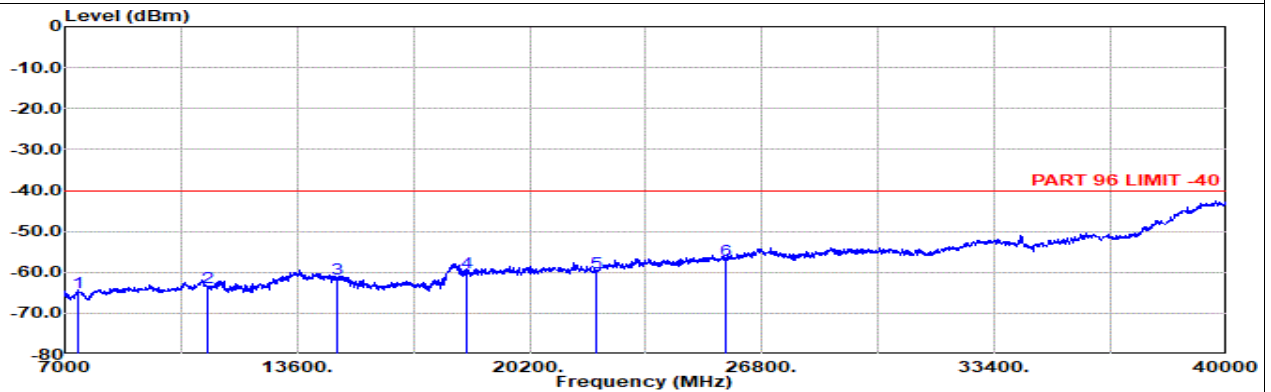
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal
 : LTE Band 48 20M Ch56640 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1 7362.00	-64.28	RMS	36.93	-53.19	-5.19	-95.23	52.40	-40.00	-24.28	Horizontal
2 11043.00	-63.23	RMS	38.91	-50.54	-6.33	-95.23	49.96	-40.00	-23.23	Horizontal
3 14724.00	-61.34	RMS	40.65	-46.98	-7.07	-95.23	47.29	-40.00	-21.34	Horizontal
4 18406.00	-60.39	RMS	37.86	-34.08	0.00	-95.23	31.06	-40.00	-20.39	Horizontal
5 22087.00	-59.75	RMS	38.08	-31.61	0.00	-95.23	29.01	-40.00	-19.75	Horizontal
6 25768.00	-57.04	RMS	39.04	-29.13	0.00	-95.23	28.28	-40.00	-17.04	Horizontal



Site : 03CH12-HY
 Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical
 : LTE Band 48 20M Ch56640 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1 7362.00	-64.77	RMS	36.93	-53.19	-5.19	-95.23	51.91	-40.00	-24.77	Vertical
2 11043.00	-63.78	RMS	38.91	-50.54	-6.33	-95.23	49.41	-40.00	-23.78	Vertical
3 14724.00	-61.47	RMS	40.65	-46.98	-7.07	-95.23	47.16	-40.00	-21.47	Vertical
4 18406.00	-59.94	RMS	37.86	-34.08	0.00	-95.23	31.51	-40.00	-19.94	Vertical
5 22087.00	-60.02	RMS	38.08	-31.61	0.00	-95.23	28.74	-40.00	-20.02	Vertical
6 25768.00	-56.97	RMS	39.04	-29.13	0.00	-95.23	28.35	-40.00	-16.97	Vertical

—THE END—