

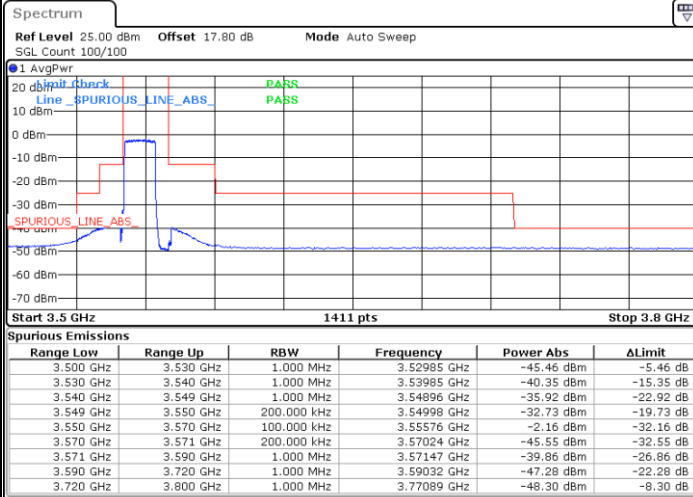


LTE Band 48 / 15MHz

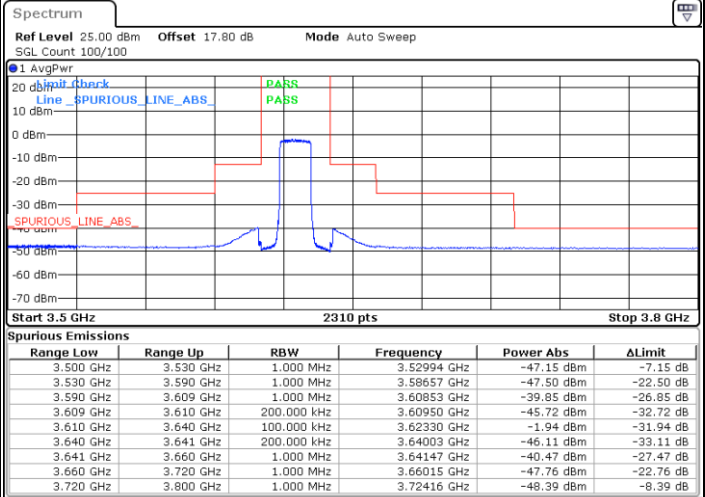
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



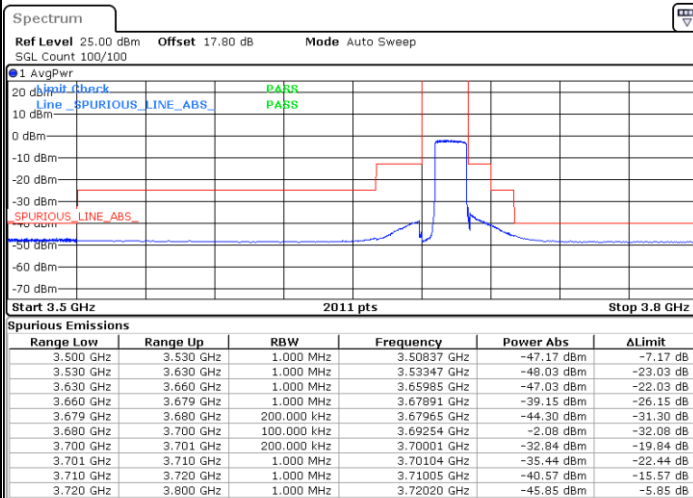
Date: 3.JAN.2025 12:41:29



Date: 3.JAN.2025 12:46:37

Highest Channel / FullIRB

N/A



Date: 3.JAN.2025 12:51:32

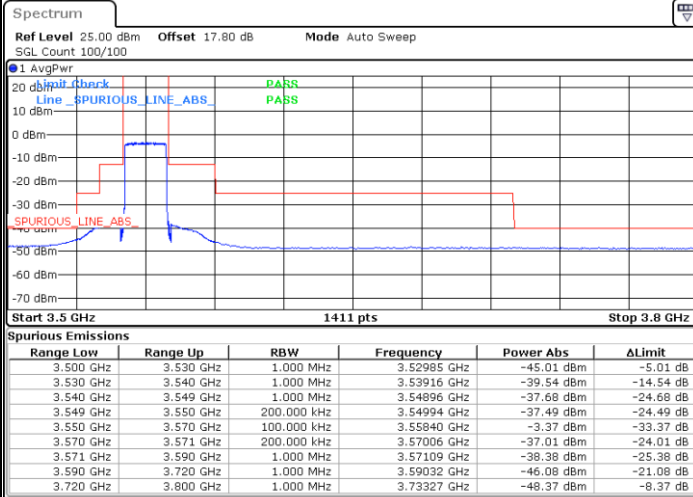


LTE Band 48 / 20MHz

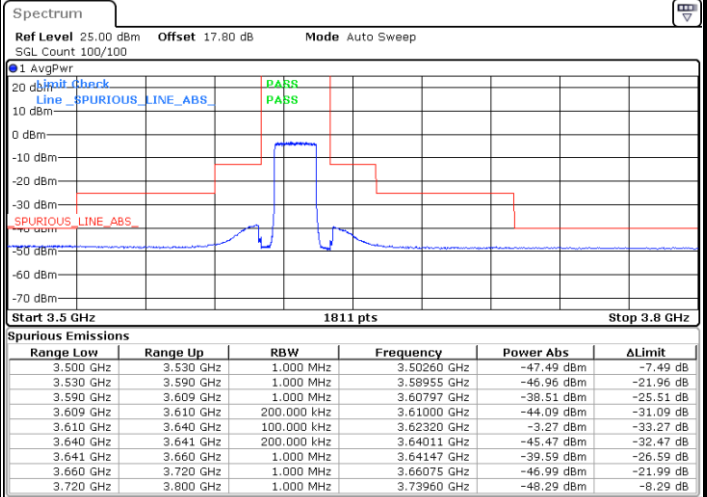
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



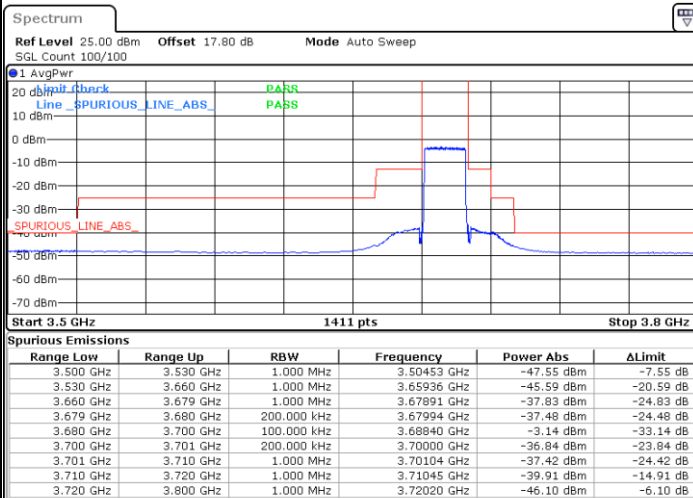
Date: 3.JAN.2025 12:56:34



Date: 3.JAN.2025 13:01:30

Highest Channel / FullIRB

N/A



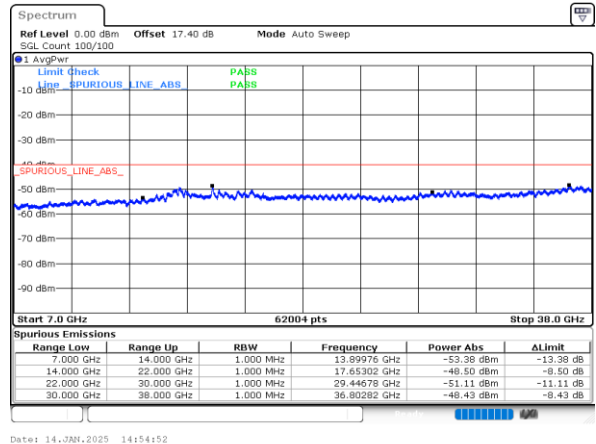
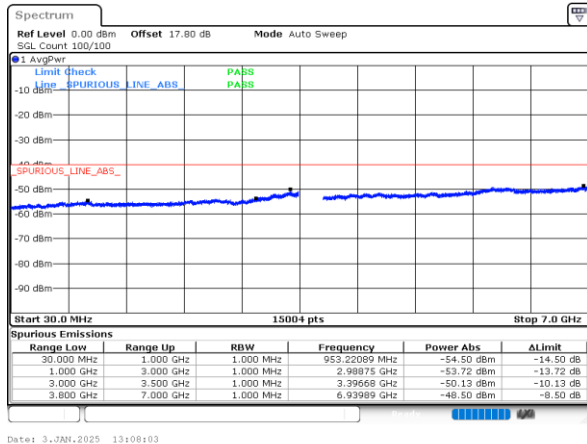
Date: 3.JAN.2025 13:06:28



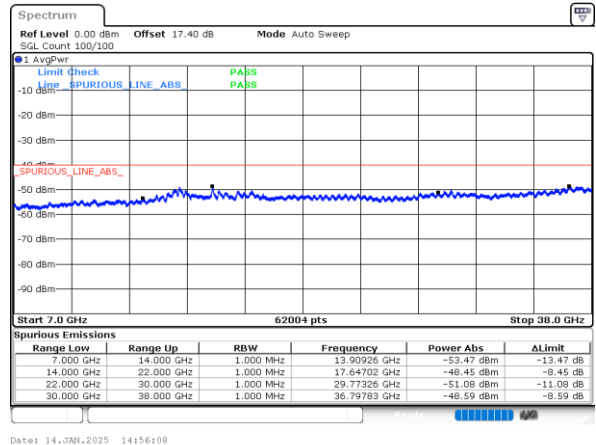
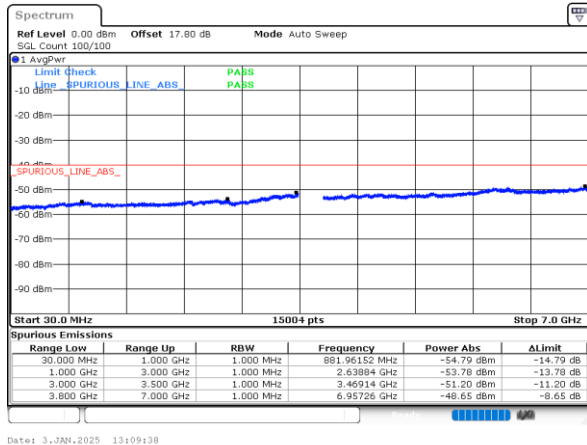
Conducted Spurious Emission

LTE Band 48 / 5MHz

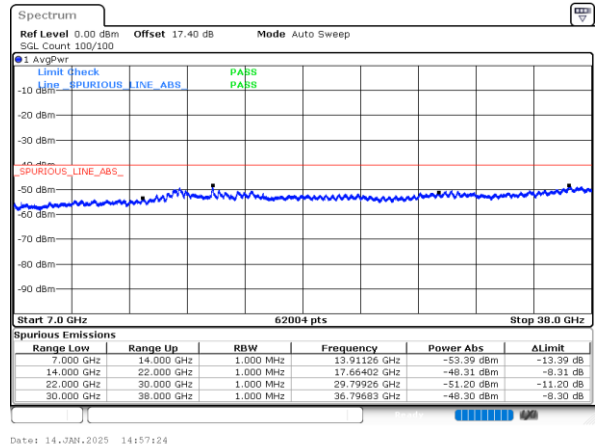
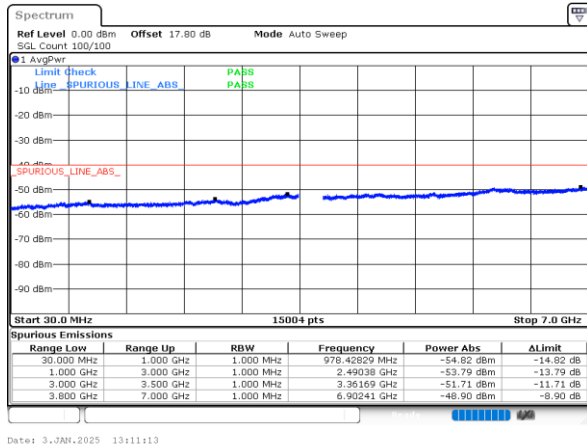
Lowest Channel / QPSK



Middle Channel / QPSK



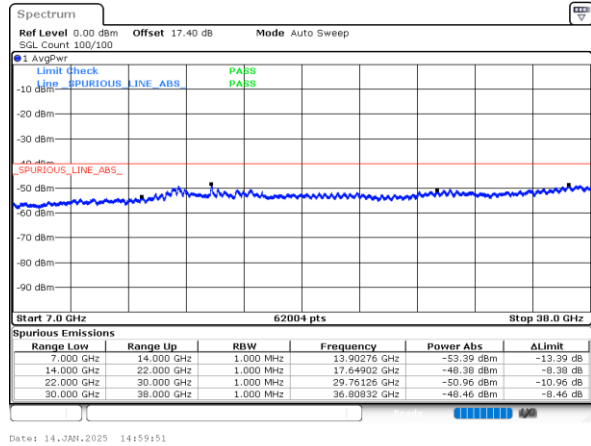
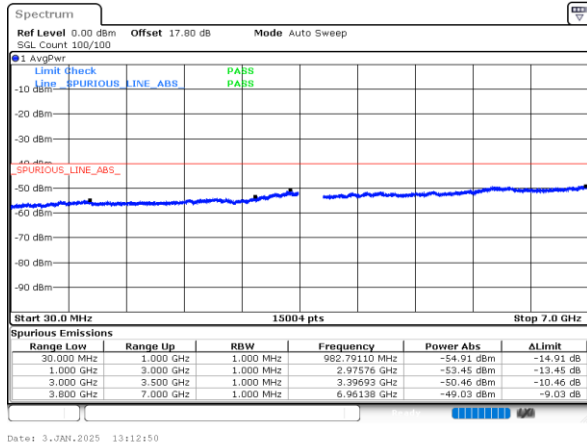
Highest Channel / QPSK



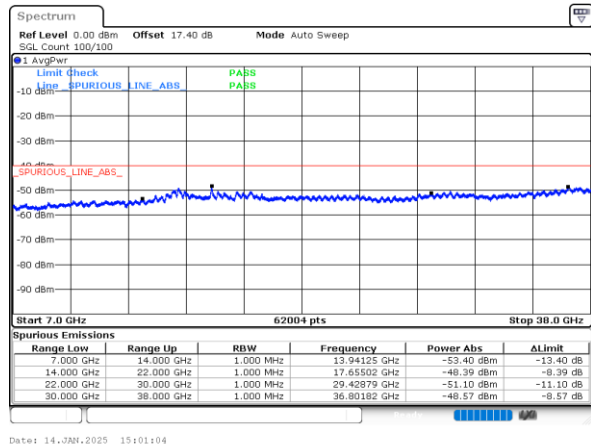
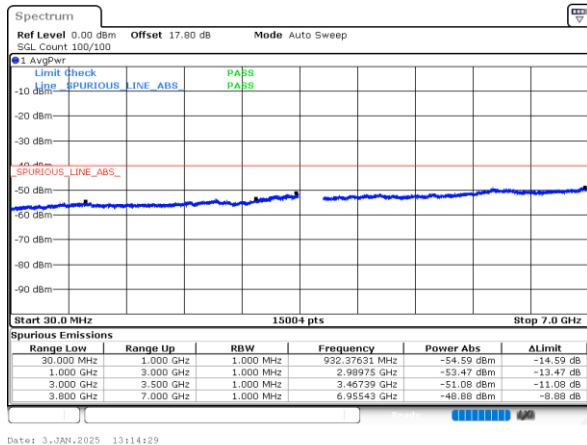


LTE Band 48 / 10MHz

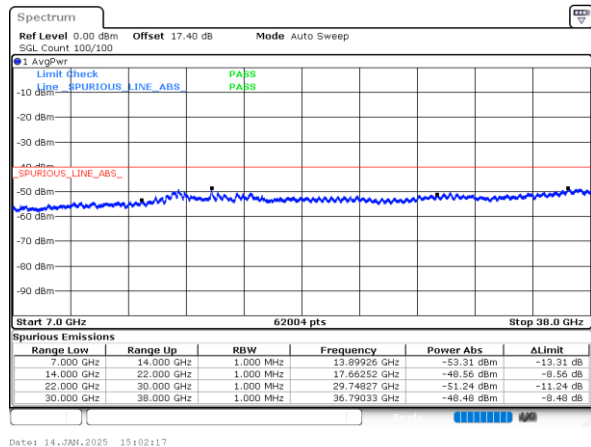
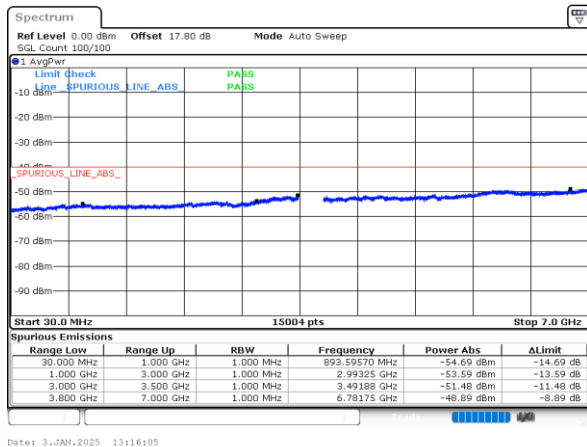
Lowest Channel / QPSK



Middle Channel / QPSK



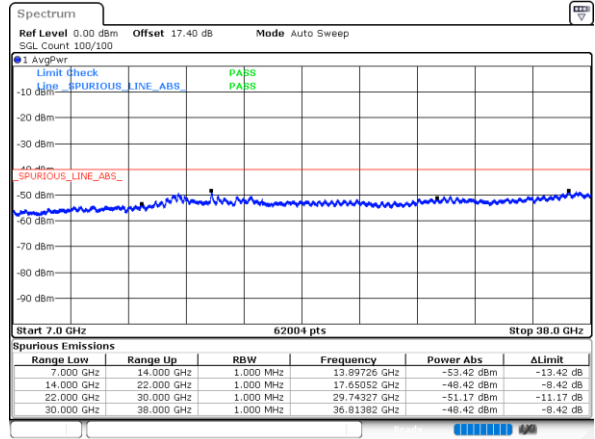
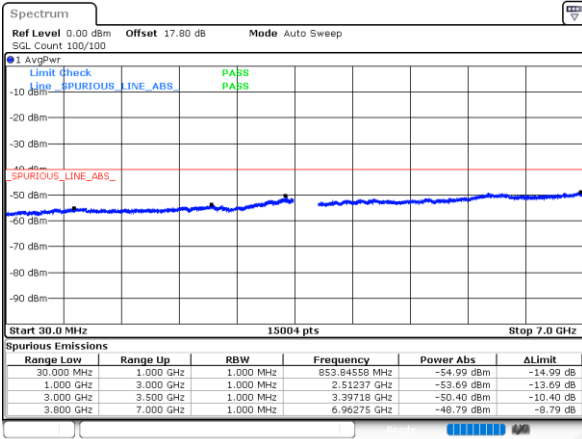
Highest Channel / QPSK



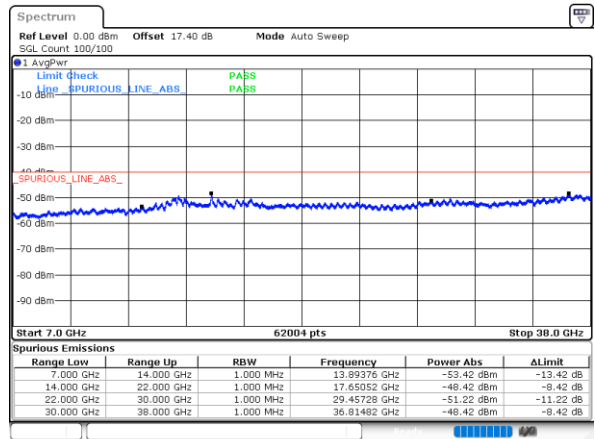
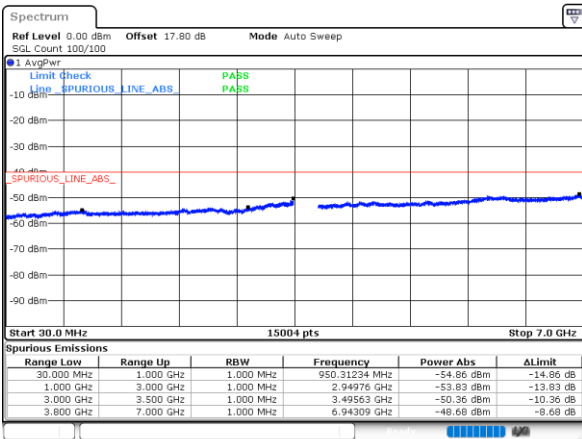


LTE Band 48 / 15MHz

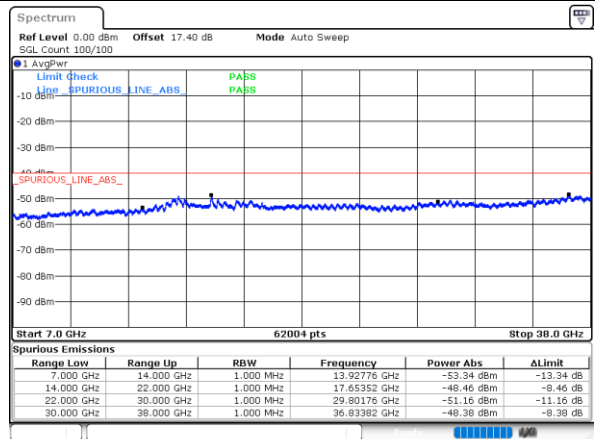
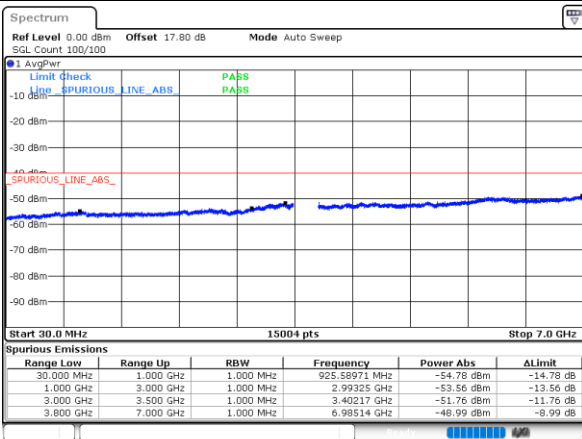
Lowest Channel / QPSK



Middle Channel / QPSK



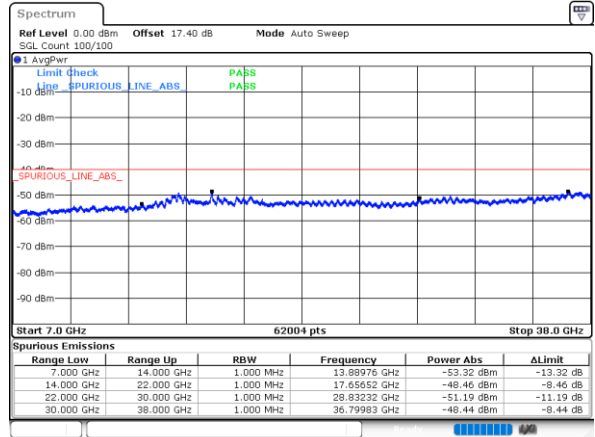
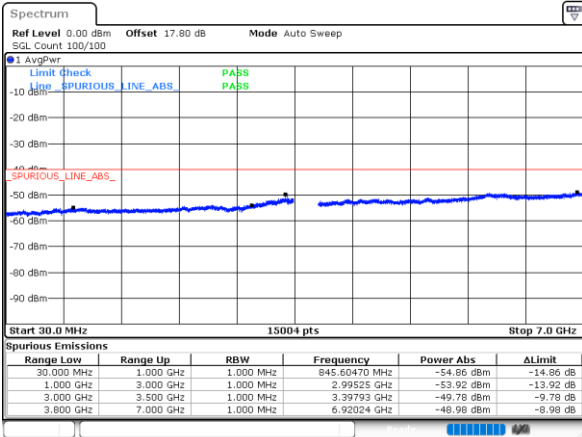
Highest Channel / QPSK



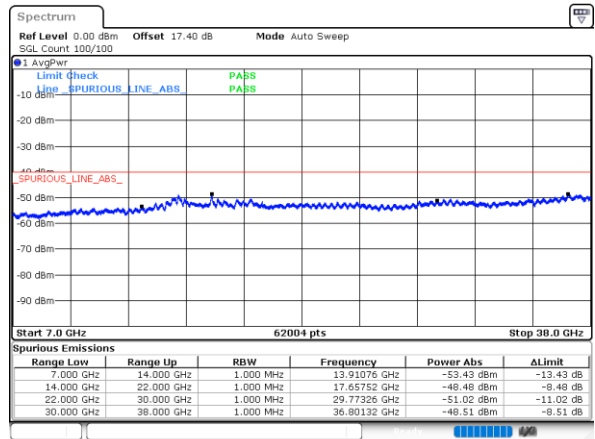
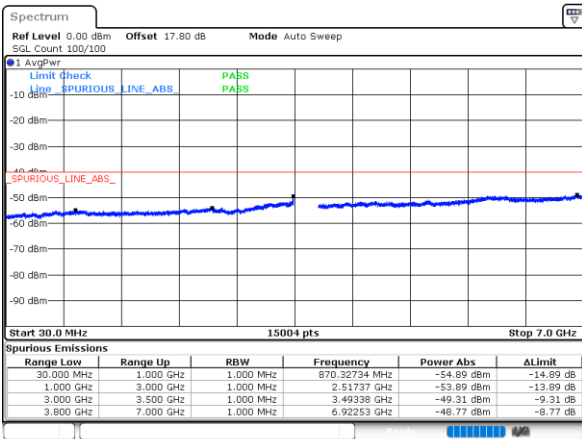


LTE Band 48 / 20MHz

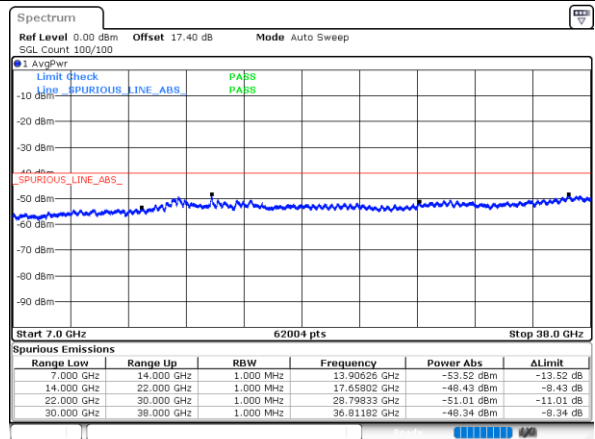
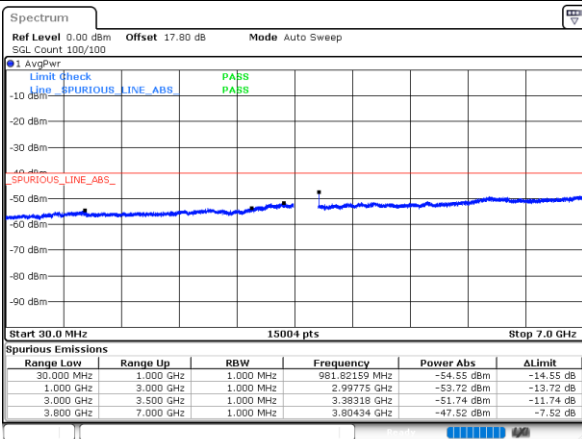
Lowest Channel / QPSK



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	0.0015	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0004	

Note:

1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

B.1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 96	LTE B48	H	14724	-49.62	RMS	41.35	-22.54	0.69	-95.23	26.11	-40.00	-9.62	H	Tx0
2	Part 96	LTE B48	L	10653	-43.42	RMS	37.50	-21.43	0.79	-95.23	34.95	-40.00	-3.42	H	Tx1

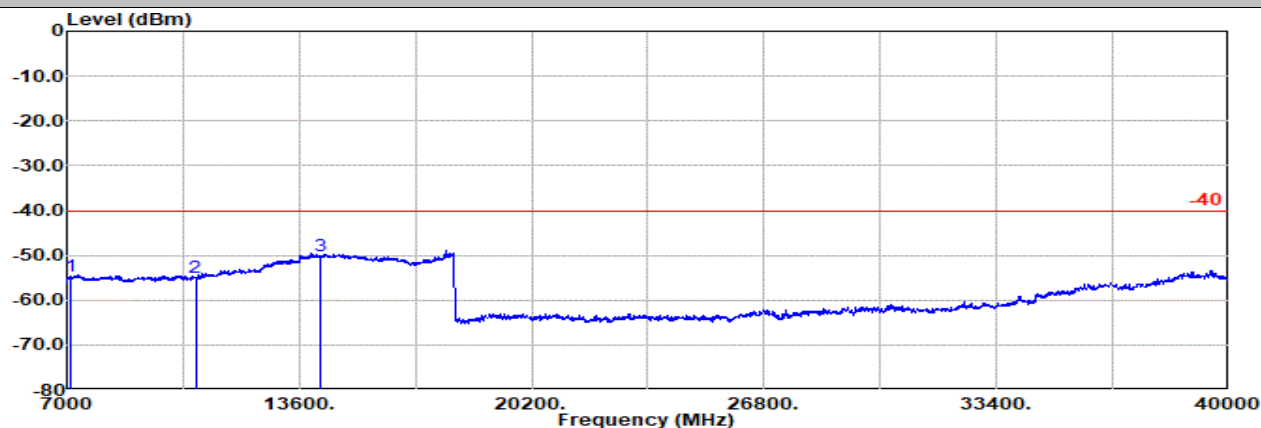


Tx0

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L

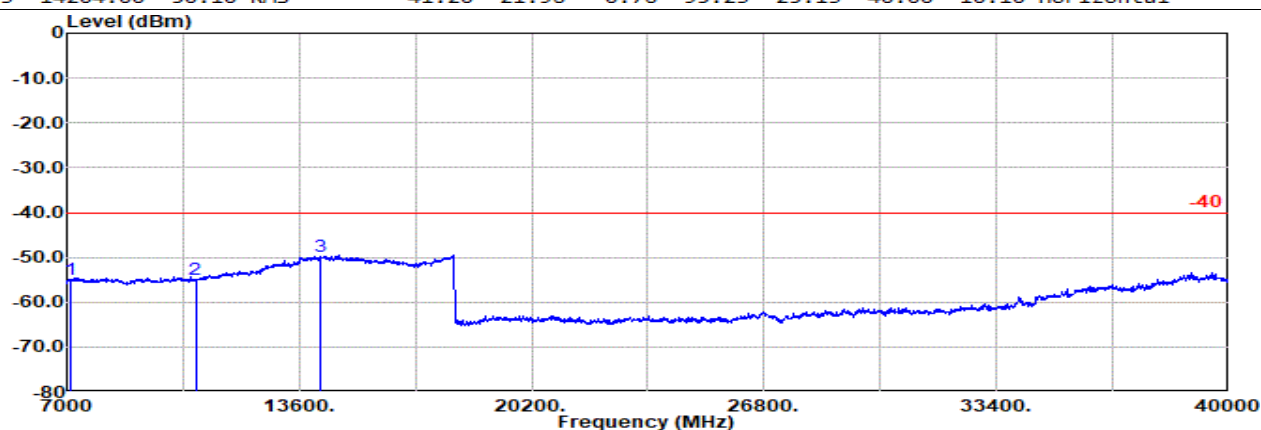


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7102.00	-54.79	RMS	36.30	-20.88	1.38	-95.23	23.64	-40.00	-14.79	Horizontal			
2	10653.00	-54.84	RMS	37.50	-21.43	0.79	-95.23	23.53	-40.00	-14.84	Horizontal			
3	14204.00	-50.10	RMS	41.20	-21.96	0.76	-95.23	25.13	-40.00	-10.10	Horizontal			



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	7102.00	-55.00	RMS	36.30	-20.88	1.38	-95.23	23.43	-40.00	-15.00	Vertical			
2	10653.00	-55.00	RMS	37.50	-21.43	0.79	-95.23	23.37	-40.00	-15.00	Vertical			
3	14204.00	-49.93	RMS	41.20	-21.96	0.76	-95.23	25.30	-40.00	-9.93	Vertical			

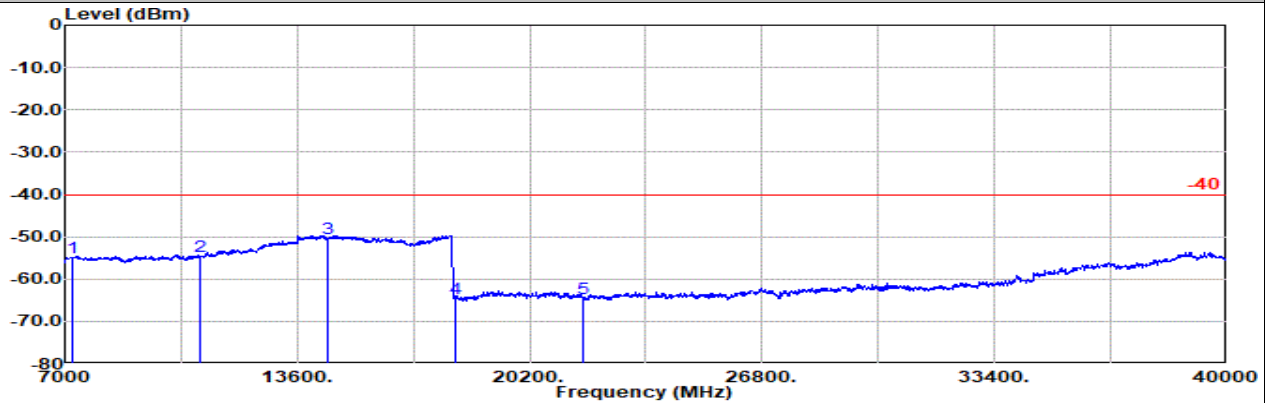


Tx0

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

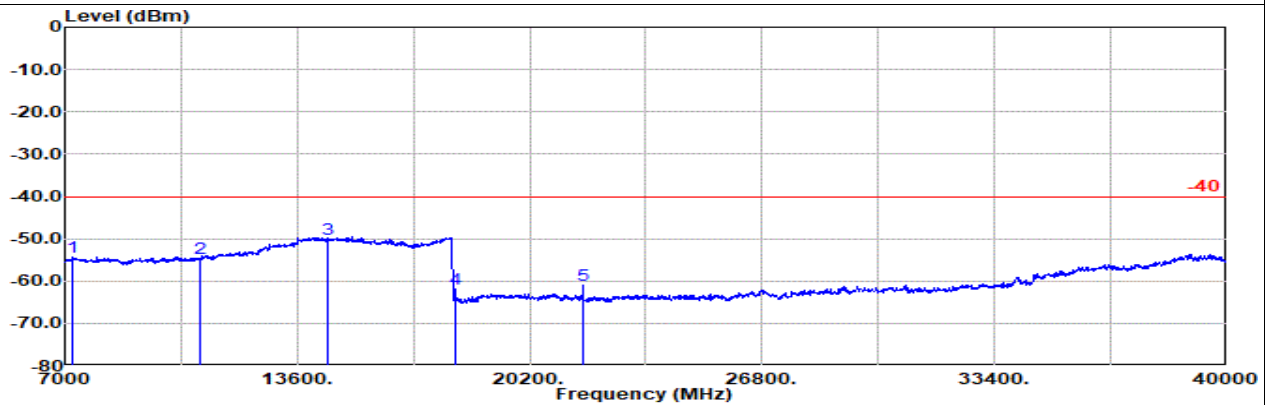


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-54.83	RMS	36.56	-20.81	1.29	-95.23	23.36	-40.00	-14.83	Horizontal
2	10848.00	-54.65	RMS	37.50	-21.41	0.78	-95.23	23.71	-40.00	-14.65	Horizontal
3	14464.00	-50.52	RMS	41.23	-22.55	0.72	-95.23	25.31	-40.00	-10.52	Horizontal
4	18080.00	-64.50	RMS	37.72	-39.66	-9.54	-95.23	42.21	-40.00	-24.50	Horizontal
5	21697.00	-64.46	RMS	38.21	-35.91	-9.54	-95.23	38.01	-40.00	-24.46	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-54.38	RMS	36.56	-20.81	1.29	-95.23	23.81	-40.00	-14.38	Vertical
2	10848.00	-54.54	RMS	37.50	-21.41	0.78	-95.23	23.82	-40.00	-14.54	Vertical
3	14464.00	-50.17	RMS	41.23	-22.55	0.72	-95.23	25.66	-40.00	-10.17	Vertical
4	18080.00	-61.88	RMS	37.72	-39.66	-9.54	-95.23	44.83	-40.00	-21.88	Vertical
5	21697.00	-61.06	RMS	38.21	-35.91	-9.54	-95.23	41.41	-40.00	-21.06	Vertical

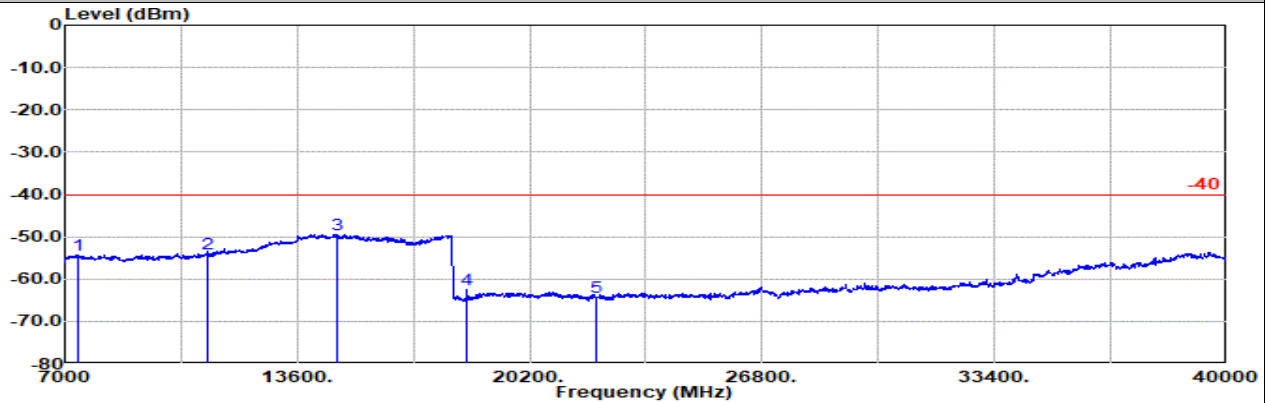


Tx0

Part 96 Mode 1

LTE B48 20M Ch56640 1RB0 QPSK

H

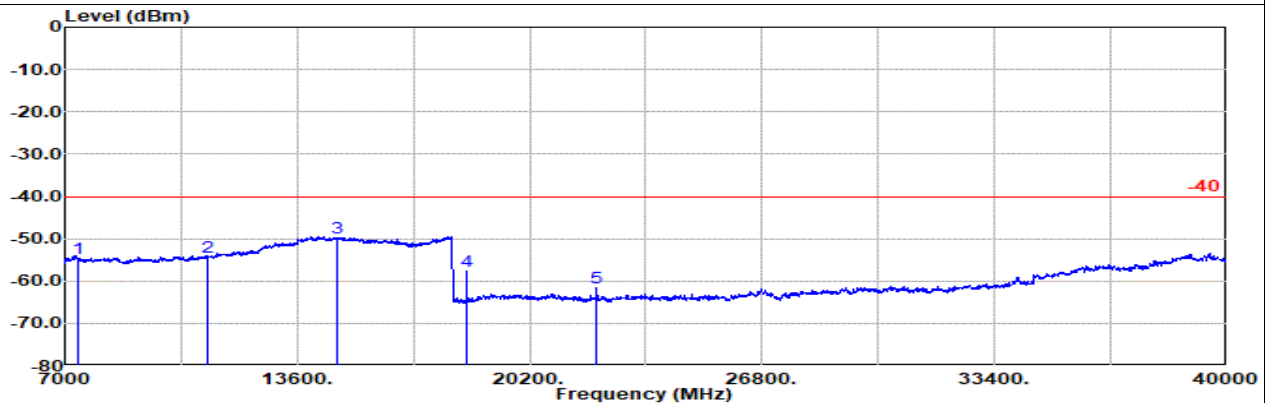


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
1	7362.00	-54.42	RMS		36.80	-20.74	1.23	-95.23	23.52	-40.00	-14.42	Horizontal
2	11043.00	-54.14	RMS		37.79	-21.41	0.77	-95.23	23.94	-40.00	-14.14	Horizontal
3	14724.00	-49.62	RMS		41.35	-22.54	0.69	-95.23	26.11	-40.00	-9.62	Horizontal
4	18405.00	-62.43	RMS		37.93	-39.90	-9.54	-95.23	44.31	-40.00	-22.43	Horizontal
5	22087.00	-64.29	RMS		38.33	-35.08	-9.54	-95.23	37.23	-40.00	-24.29	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
1	7362.00	-54.74	RMS		36.80	-20.74	1.23	-95.23	23.20	-40.00	-14.74	Vertical
2	11043.00	-54.33	RMS		37.79	-21.41	0.77	-95.23	23.75	-40.00	-14.33	Vertical
3	14724.00	-49.89	RMS		41.35	-22.54	0.69	-95.23	25.84	-40.00	-9.89	Vertical
4	18405.00	-57.61	RMS		37.93	-39.90	-9.54	-95.23	49.13	-40.00	-17.61	Vertical
5	22087.00	-61.57	RMS		38.33	-35.08	-9.54	-95.23	39.95	-40.00	-21.57	Vertical

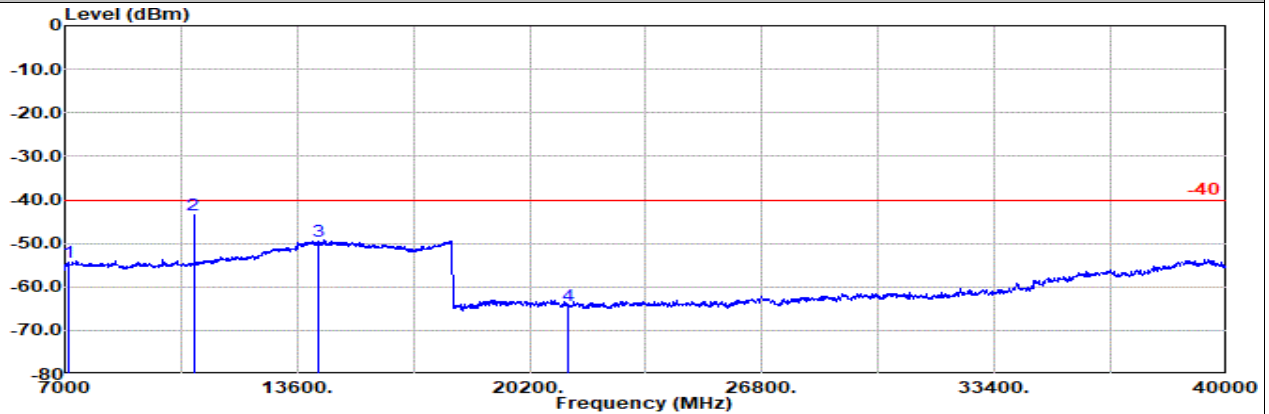


Tx1

Part 96 Mode 2

LTE B48 20M Ch55340 1RB0 QPSK

L

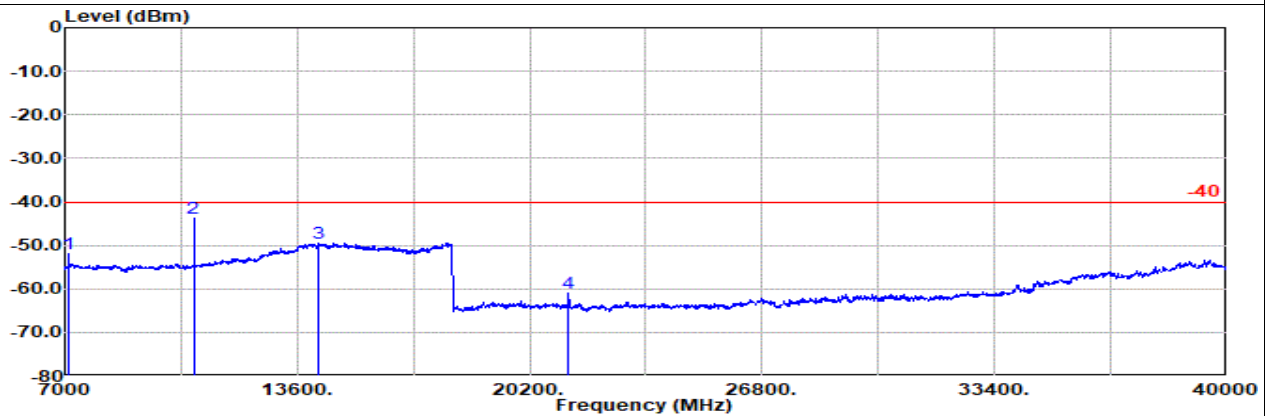


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-54.46	RMS	36.30	-20.88	1.38	-95.23	23.97	-40.00	-14.46	Horizontal
2	10653.00	-43.42	RMS	37.50	-21.43	0.79	-95.23	34.95	-40.00	-3.42	Horizontal
3	14204.00	-49.60	RMS	41.20	-21.96	0.76	-95.23	25.63	-40.00	-9.60	Horizontal
4	21307.00	-64.32	RMS	38.19	-36.46	-9.54	-95.23	38.72	-40.00	-24.32	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-51.79	RMS	36.30	-20.88	1.38	-95.23	26.64	-40.00	-11.79	Vertical
2	10653.00	-43.91	RMS	37.50	-21.43	0.79	-95.23	34.46	-40.00	-3.91	Vertical
3	14204.00	-49.37	RMS	41.20	-21.96	0.76	-95.23	25.86	-40.00	-9.37	Vertical
4	21307.00	-60.91	RMS	38.19	-36.46	-9.54	-95.23	42.13	-40.00	-20.91	Vertical

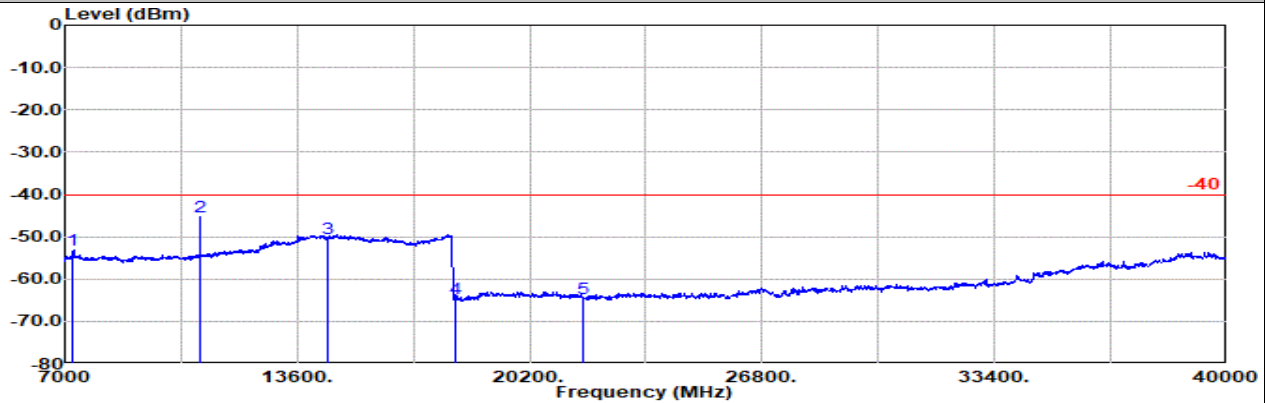


Tx1

Part 96 Mode 2

LTE B48 20M Ch55990 1RB0 QPSK

M

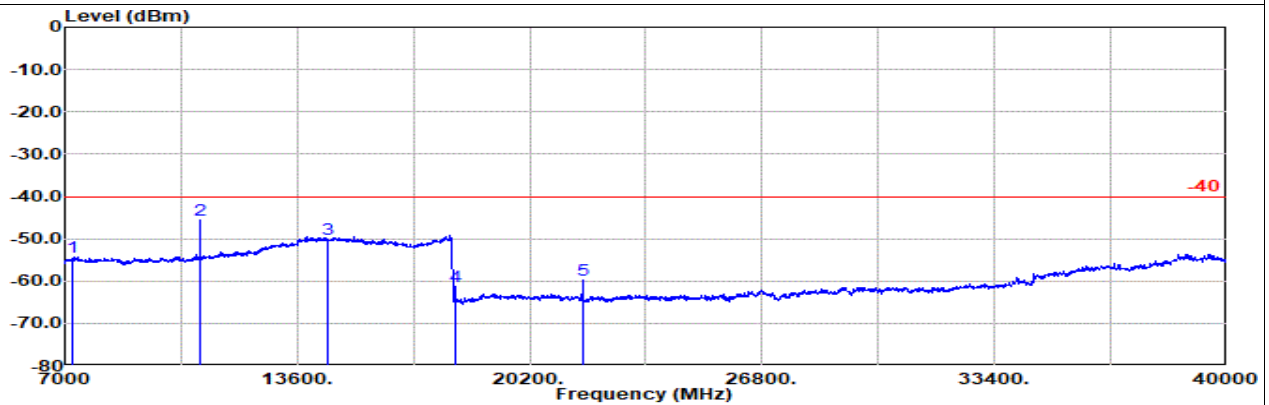


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
1	7232.00	-53.07	RMS		36.56	-20.81	1.29	-95.23	25.12	-40.00	-13.07	Horizontal
2	10848.00	-45.32	RMS		37.50	-21.41	0.78	-95.23	33.04	-40.00	-5.32	Horizontal
3	14464.00	-50.32	RMS		41.23	-22.55	0.72	-95.23	25.51	-40.00	-10.32	Horizontal
4	18080.00	-64.66	RMS		37.72	-39.66	-9.54	-95.23	42.05	-40.00	-24.66	Horizontal
5	21697.00	-64.55	RMS		38.21	-35.91	-9.54	-95.23	37.92	-40.00	-24.55	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
1	7232.00	-54.47	RMS		36.56	-20.81	1.29	-95.23	23.72	-40.00	-14.47	Vertical
2	10848.00	-45.45	RMS		37.50	-21.41	0.78	-95.23	32.91	-40.00	-5.45	Vertical
3	14464.00	-50.22	RMS		41.23	-22.55	0.72	-95.23	25.61	-40.00	-10.22	Vertical
4	18080.00	-61.13	RMS		37.72	-39.66	-9.54	-95.23	45.58	-40.00	-21.13	Vertical
5	21697.00	-59.68	RMS		38.21	-35.91	-9.54	-95.23	42.79	-40.00	-19.68	Vertical

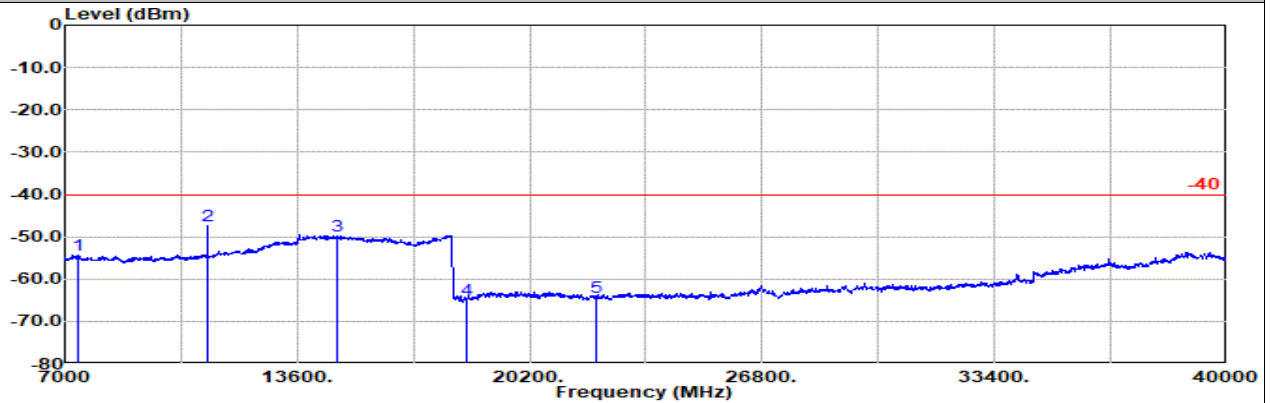


Tx1

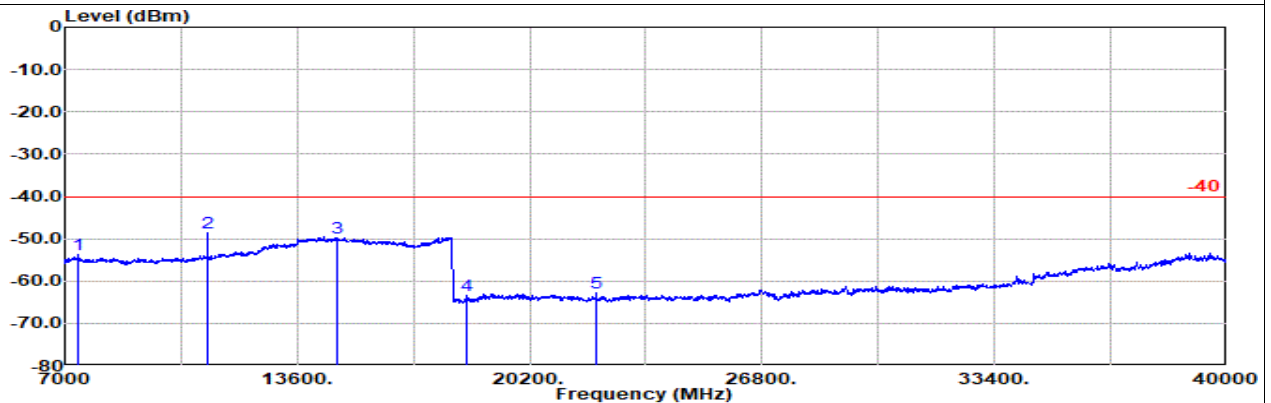
Part 96 Mode 2

LTE B48 20M Ch56640 1RB0 QPSK

H



	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
1	7362.00	-54.41	RMS		36.80	-20.74	1.23	-95.23	23.53	-40.00	-14.41	Horizontal
2	11043.00	-47.42	RMS		37.79	-21.41	0.77	-95.23	30.66	-40.00	-7.42	Horizontal
3	14724.00	-49.91	RMS		41.35	-22.54	0.69	-95.23	25.82	-40.00	-9.91	Horizontal
4	18405.00	-64.94	RMS		37.93	-39.90	-9.54	-95.23	41.80	-40.00	-24.94	Horizontal
5	22087.00	-64.42	RMS		38.33	-35.08	-9.54	-95.23	37.10	-40.00	-24.42	Horizontal



	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
1	7362.00	-53.87	RMS		36.80	-20.74	1.23	-95.23	24.07	-40.00	-13.87	Vertical
2	11043.00	-48.63	RMS		37.79	-21.41	0.77	-95.23	29.45	-40.00	-8.63	Vertical
3	14724.00	-49.91	RMS		41.35	-22.54	0.69	-95.23	25.82	-40.00	-9.91	Vertical
4	18405.00	-63.36	RMS		37.93	-39.90	-9.54	-95.23	43.38	-40.00	-23.36	Vertical
5	22087.00	-62.85	RMS		38.33	-35.08	-9.54	-95.23	38.67	-40.00	-22.85	Vertical

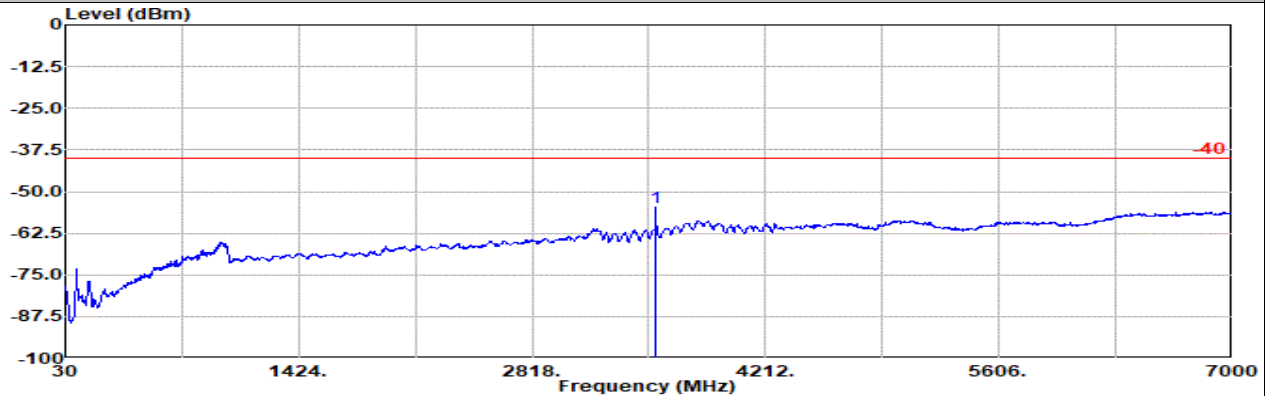


Tx1

Part 96 Mode 2

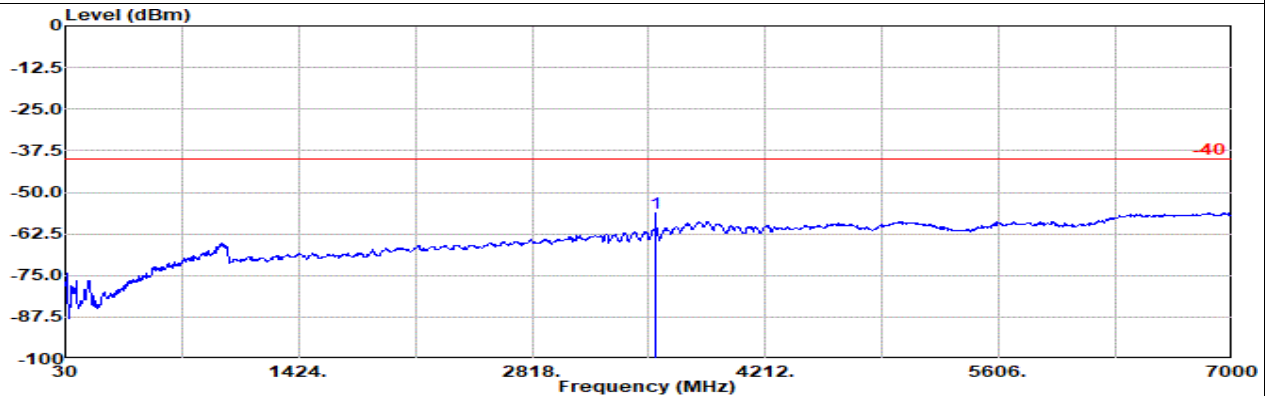
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH21-HY
Condition: -40 3m LF_63303&001_241217 Horizontal
: LTE B48 20M Ch55340 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1				g		
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3560.00	-54.57	RMS	29.18	-22.44	1.07	-95.23	32.85	-40.00	-14.57	Horizontal



Site : 03CH21-HY
Condition: -40 3m LF_63303&001_241217 Vertical
: LTE B48 20M Ch55340 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1				g		
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3560.00	-56.08	RMS	29.18	-22.44	1.07	-95.23	31.34	-40.00	-16.08	Vertical

Remark: The over limit signal #1 is fundamental signal which can be ignored.

————THE END————