

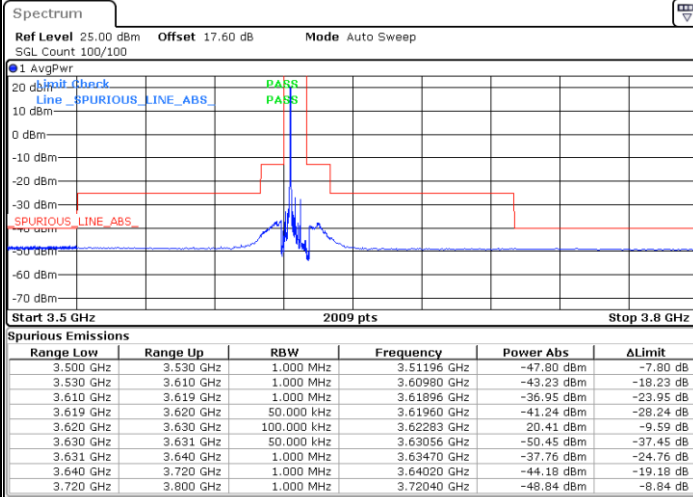


LTE Band 48 / 5MHz

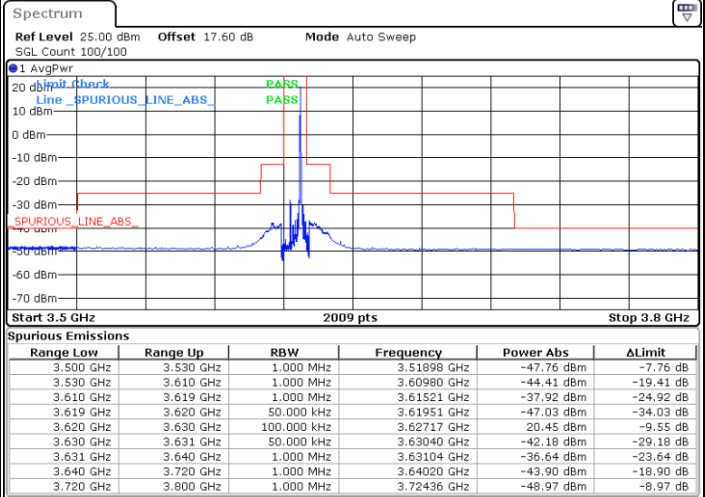
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



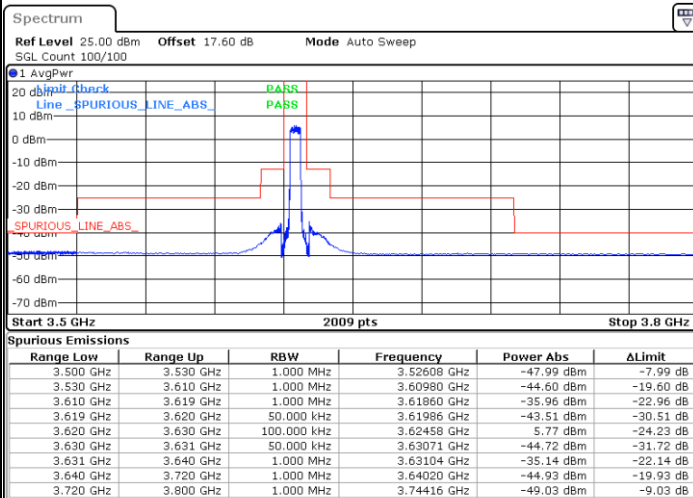
Date: 7.JAN.2025 21:01:04



Date: 7.JAN.2025 21:22:41

Middle Channel / FullRB

N/A



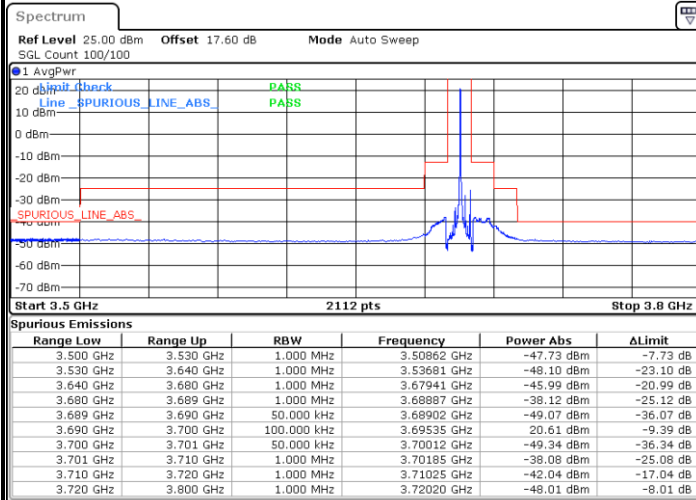
Date: 7.JAN.2025 21:11:53



LTE Band 48 / 5MHz

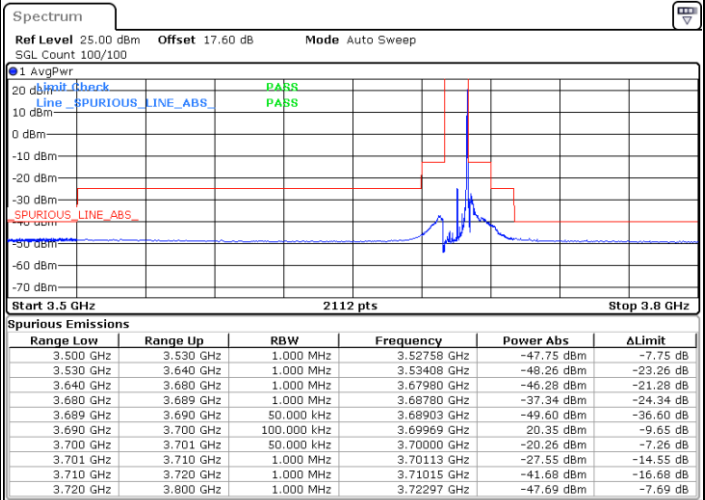
16QAM

Highest Channel / 1RB0



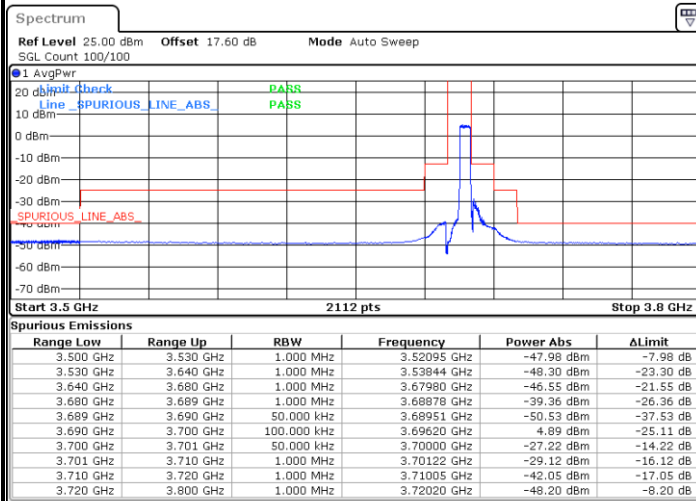
Date: 7.JAN.2025 21:04:39

Highest Channel / 1RBmax



Date: 7.JAN.2025 21:26:17

Highest Channel / FullIRB



Date: 7.JAN.2025 21:15:28

N/A

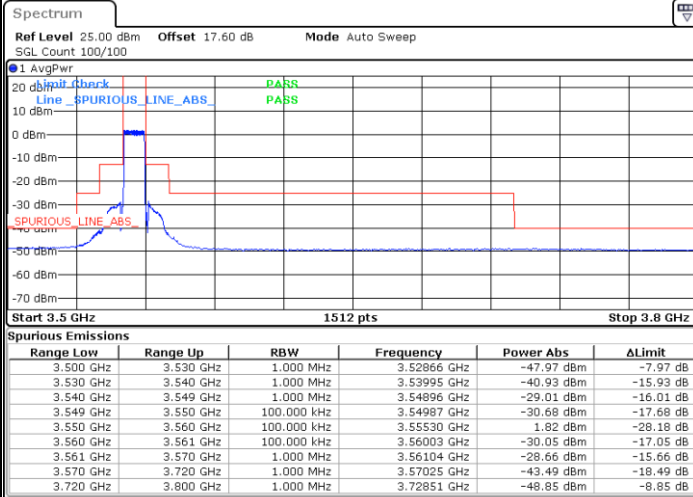


LTE Band 48 / 10MHz

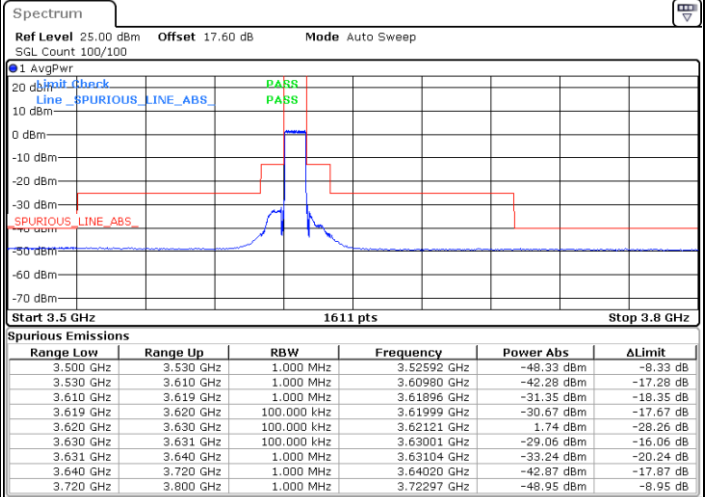
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



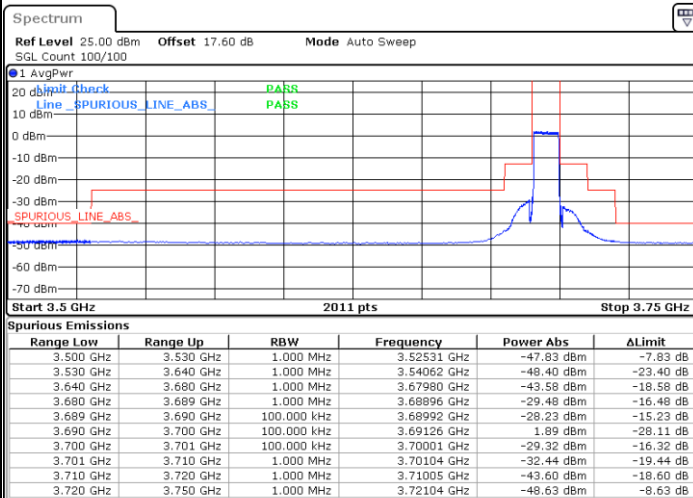
Date: 7.JAN.2025 21:47:43



Date: 7.JAN.2025 21:51:19

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 21:54:54

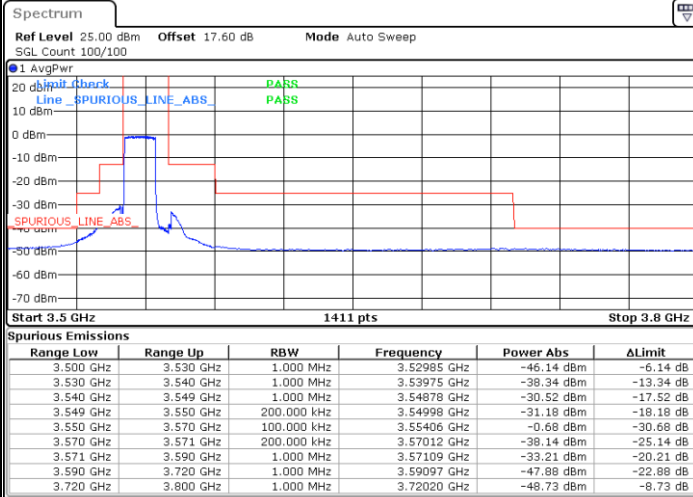


LTE Band 48 / 15MHz

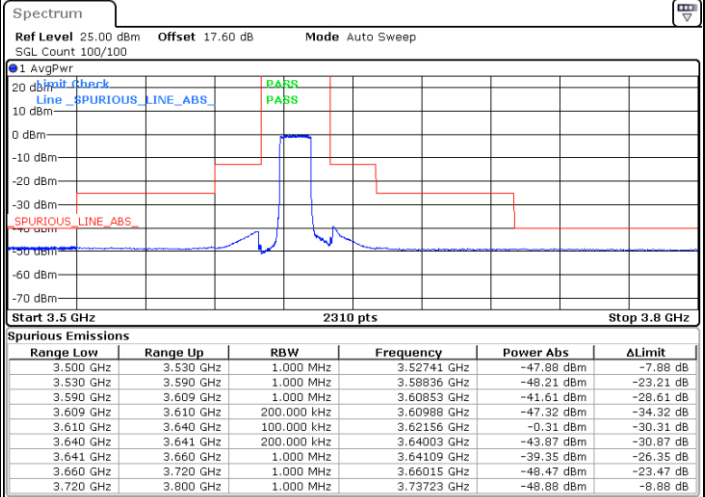
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



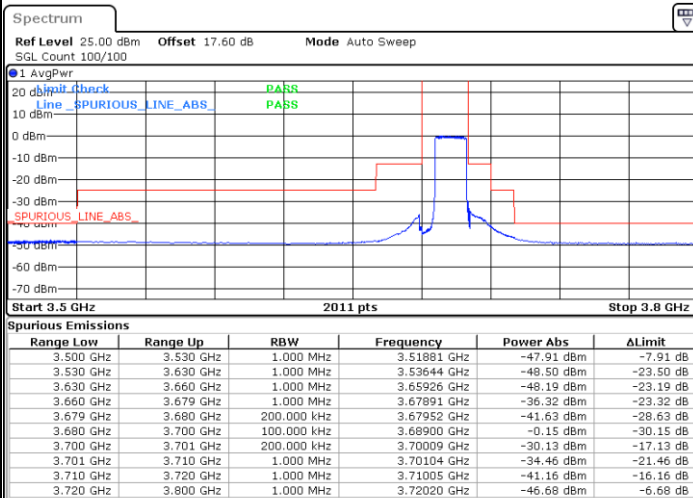
Date: 7, JAN, 2025 21:58:33



Date: 7, JAN, 2025 22:02:09

Highest Channel / FullIRB

N/A



Date: 7, JAN, 2025 22:05:44

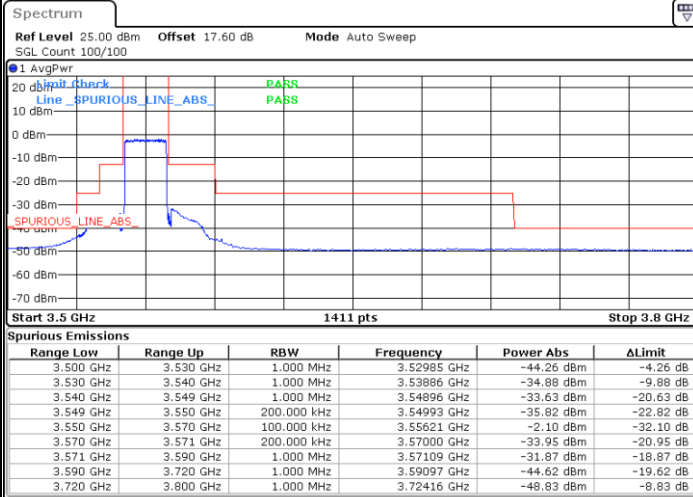


LTE Band 48 / 20MHz

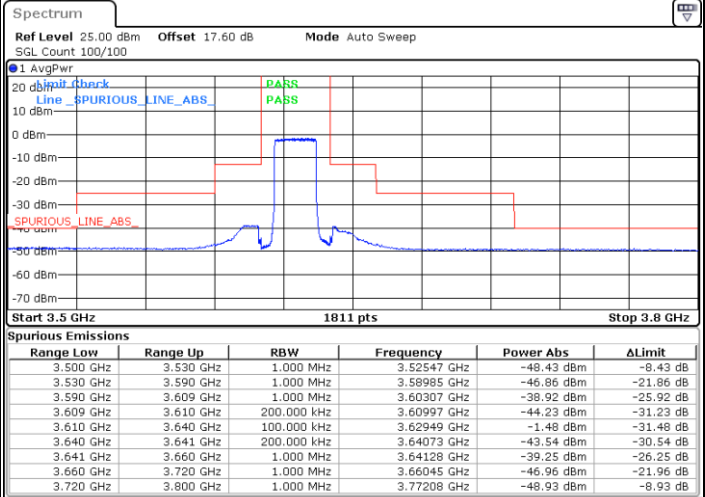
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



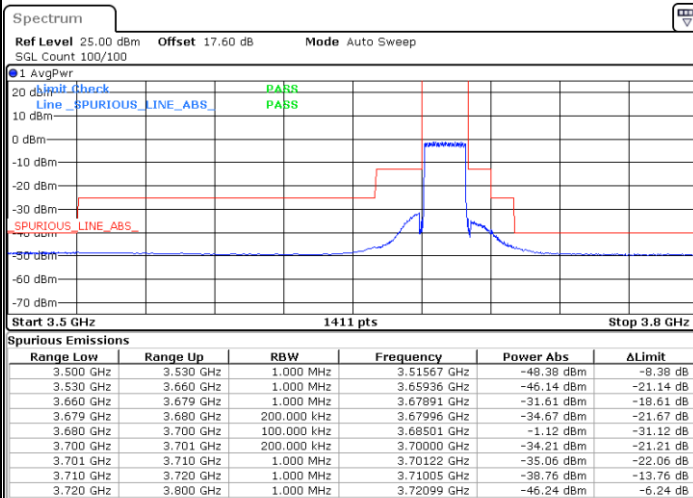
Date: 7.JAN.2025 22:14:41



Date: 7.JAN.2025 22:18:18

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 22:21:53

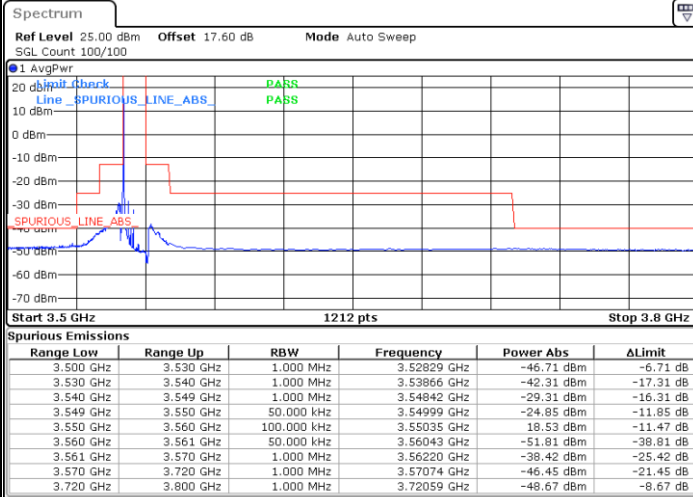


LTE Band 48 / 5MHz

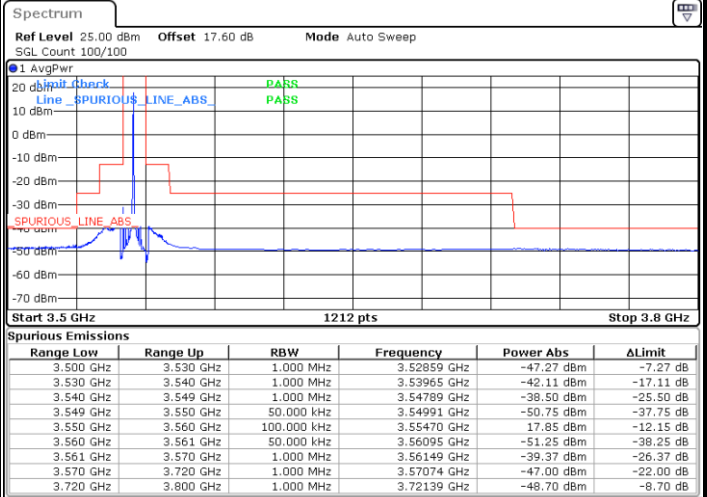
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



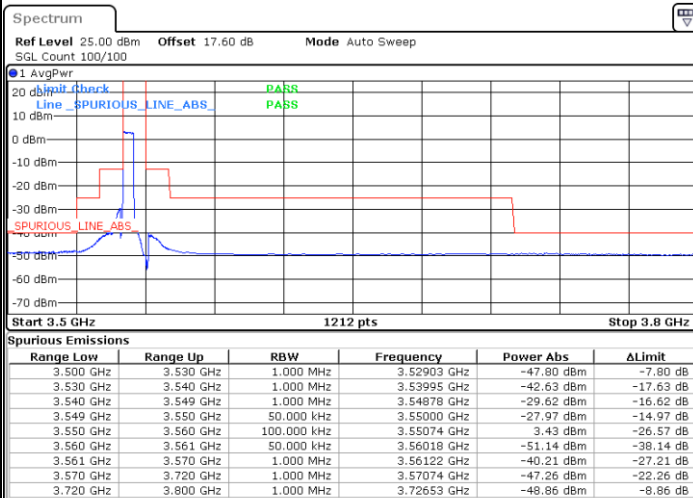
Date: 7.JAN.2025 20:57:33



Date: 7.JAN.2025 21:19:59

Lowest Channel / FullIRB

N/A



Date: 7.JAN.2025 21:09:11

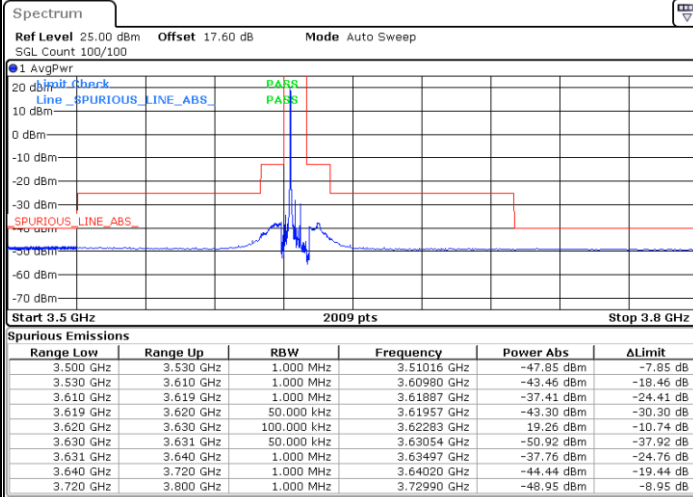


LTE Band 48 / 5MHz

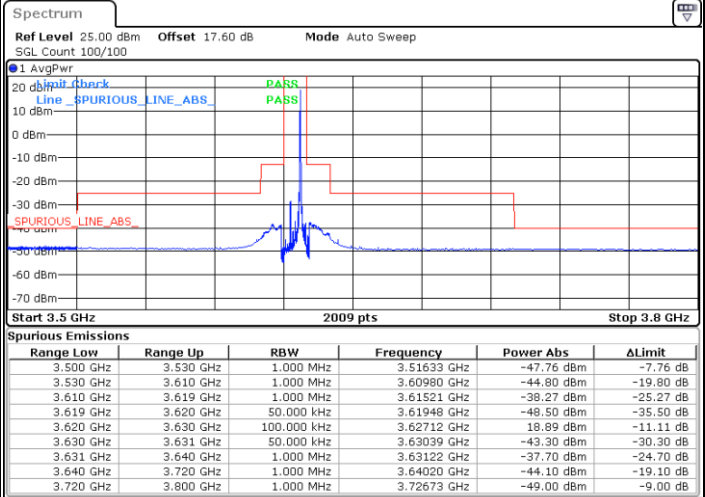
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



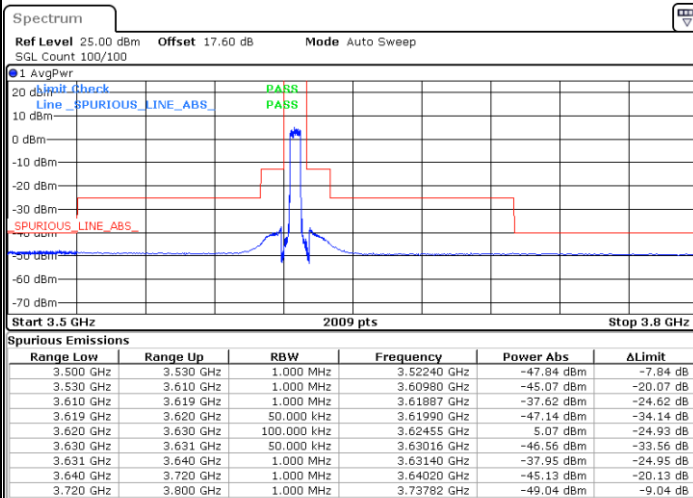
Date: 7.JAN.2025 21:01:58



Date: 7.JAN.2025 21:23:34

Middle Channel / FullRB

N/A



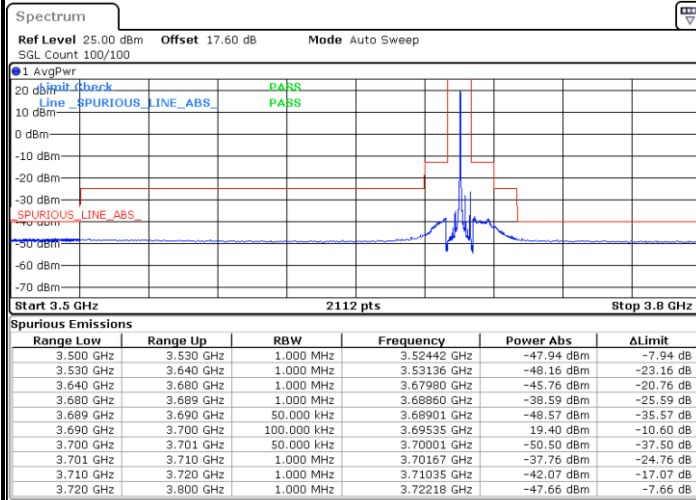
Date: 7.JAN.2025 21:12:46



LTE Band 48 / 5MHz

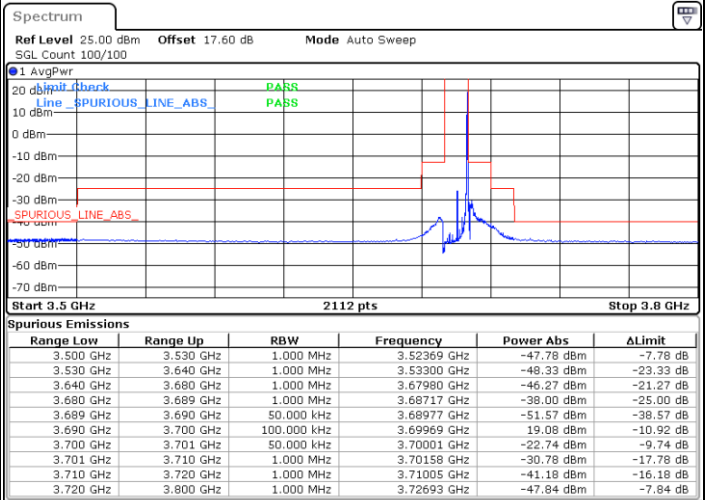
64QAM

Highest Channel / 1RB0



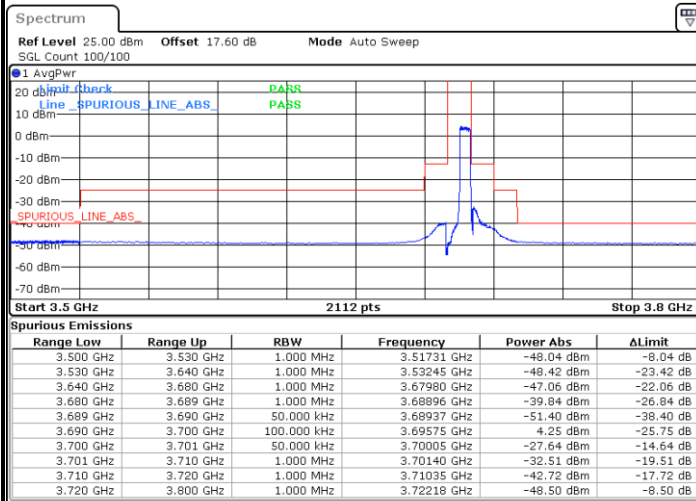
Date: 7.JAN.2025 21:05:34

Highest Channel / 1RBmax



Date: 7.JAN.2025 21:27:16

Highest Channel / FullIRB



Date: 7.JAN.2025 21:16:22

N/A

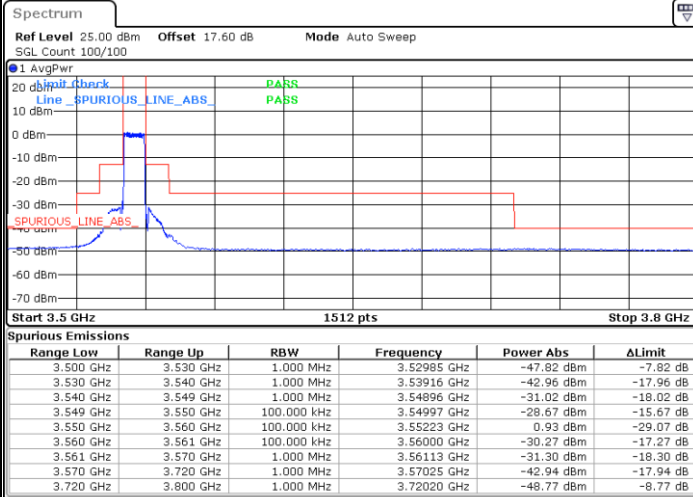


LTE Band 48 / 10MHz

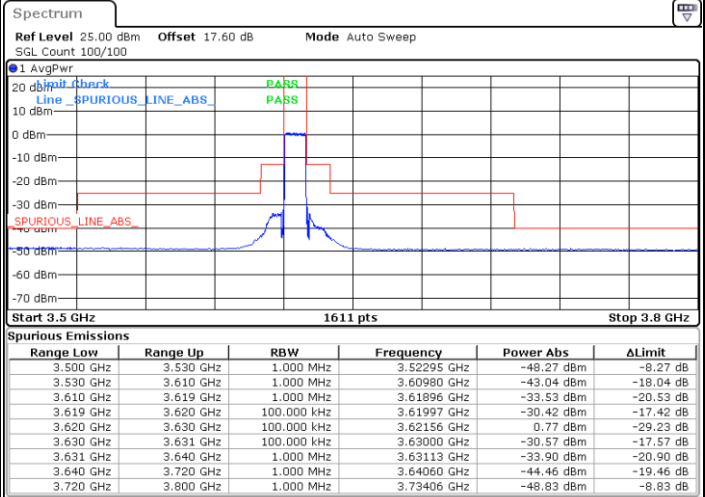
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



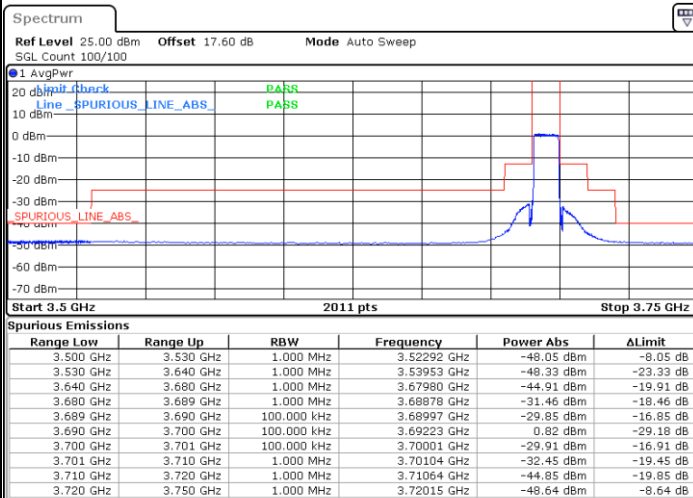
Date: 7.JAN.2025 21:48:37



Date: 7.JAN.2025 21:52:13

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 21:55:49

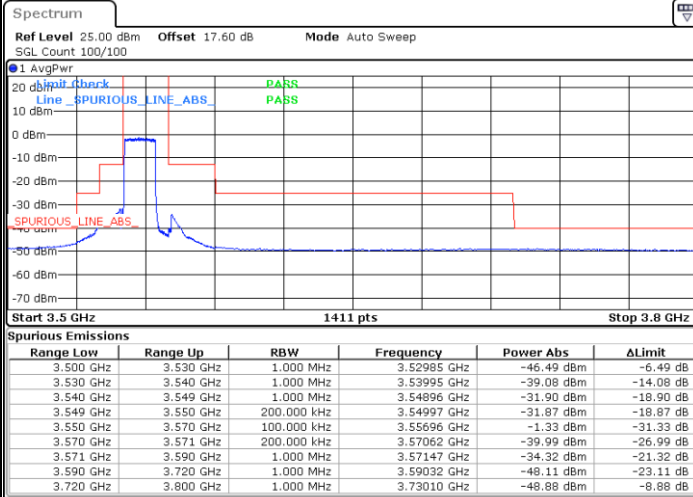


LTE Band 48 / 15MHz

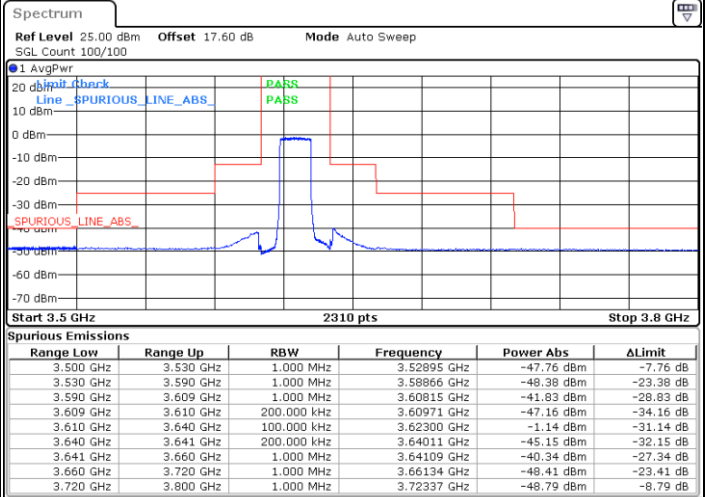
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



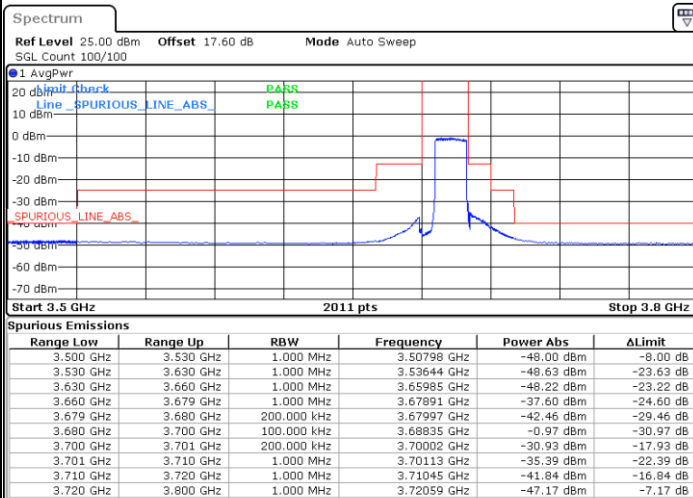
Date: 7.JAN.2025 21:59:27



Date: 7.JAN.2025 22:03:02

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 22:06:38

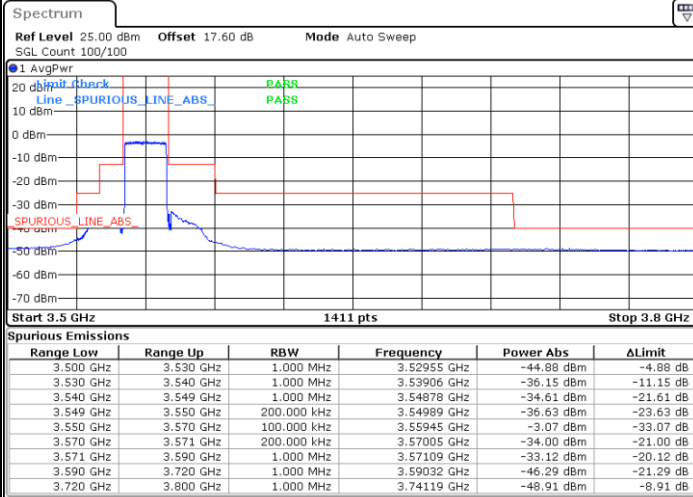


LTE Band 48 / 20MHz

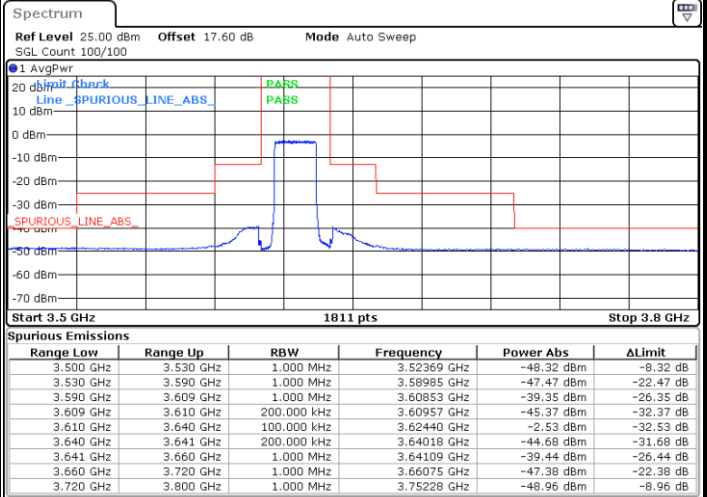
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



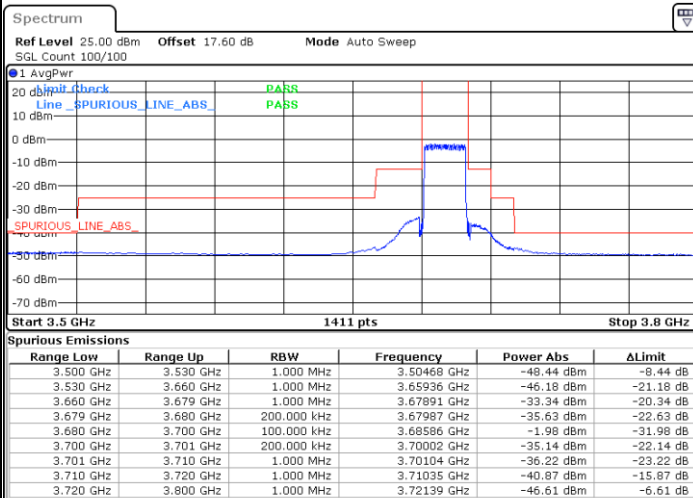
Date: 7.JAN.2025 22:15:36



Date: 7.JAN.2025 22:19:11

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 22:22:52

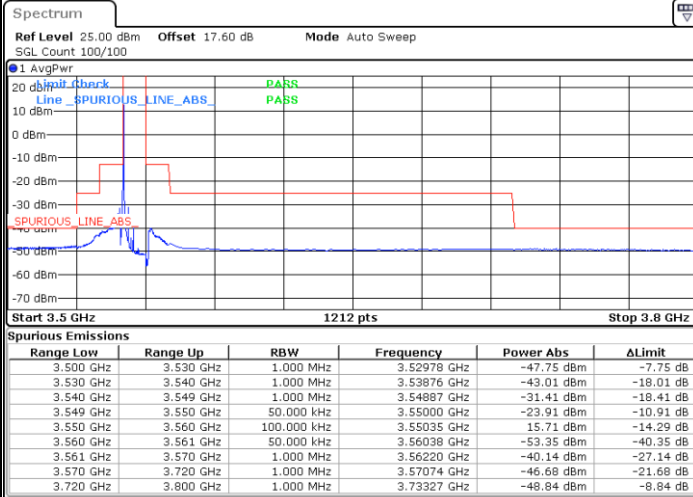


LTE Band 48 / 5MHz

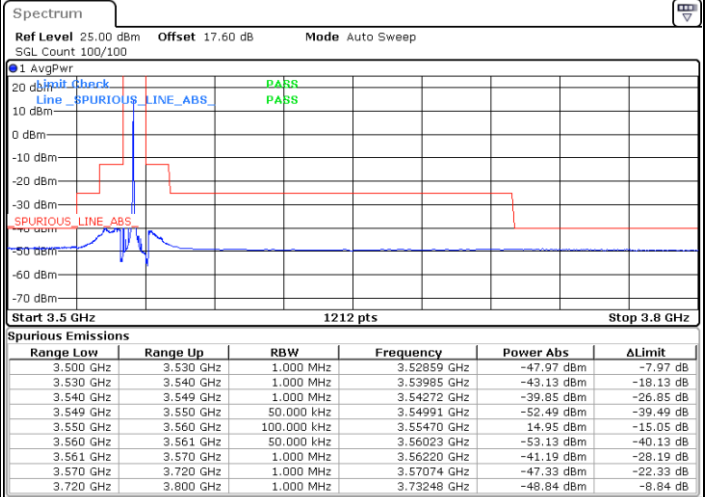
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



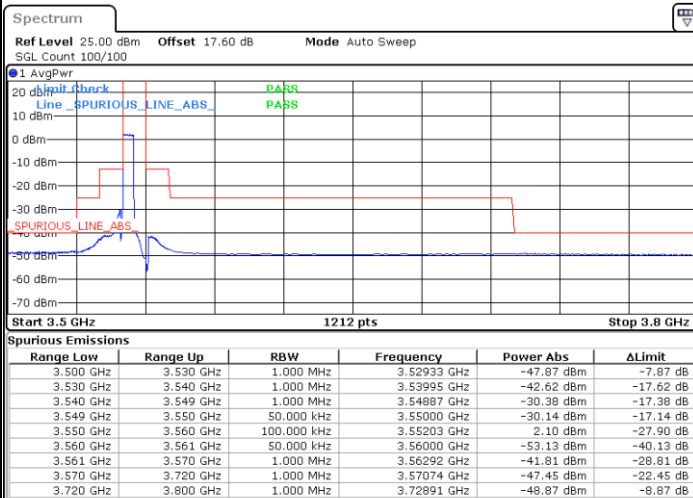
Date: 7.JAN.2025 20:59:17



Date: 7.JAN.2025 21:20:53

Lowest Channel / FullIRB

N/A



Date: 7.JAN.2025 21:10:05

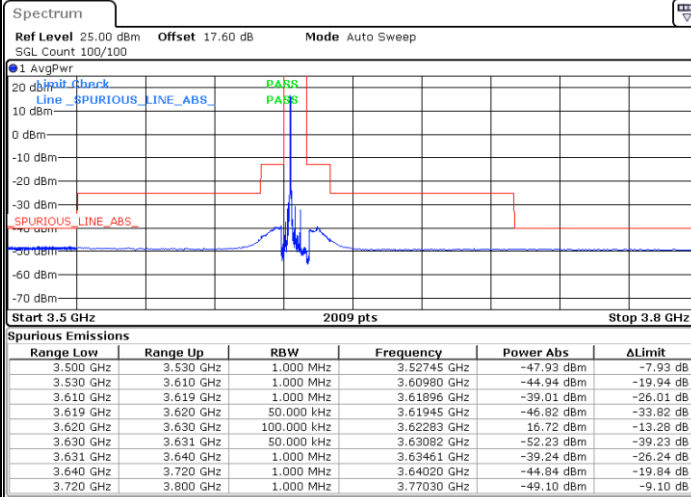


LTE Band 48 / 5MHz

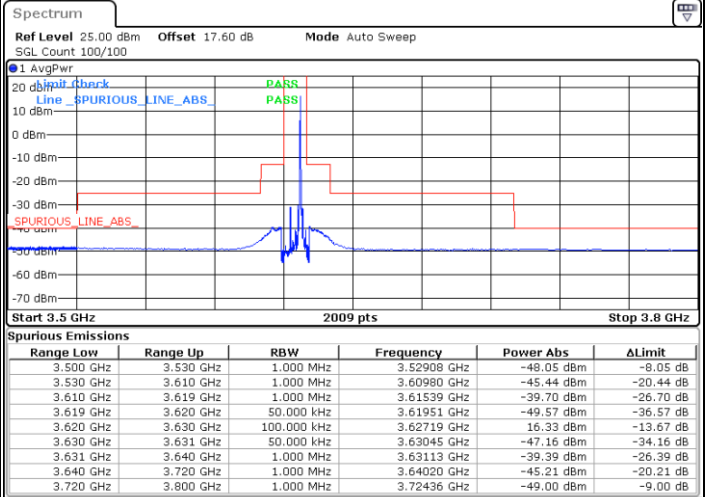
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



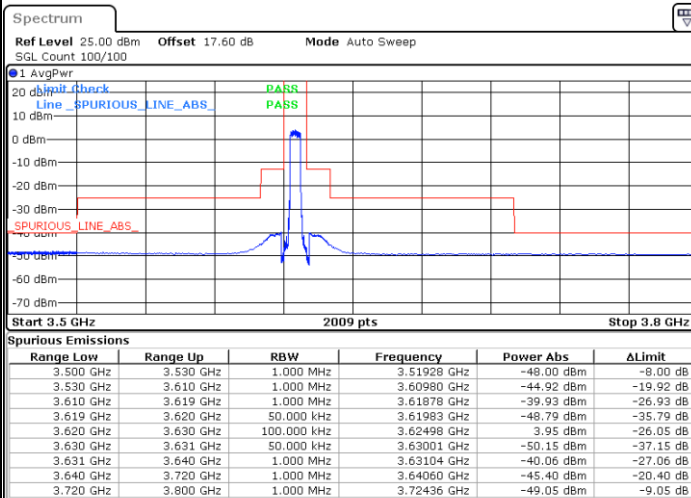
Date: 7.JAN.2025 21:02:51



Date: 7.JAN.2025 21:24:28

Middle Channel / FullRB

N/A



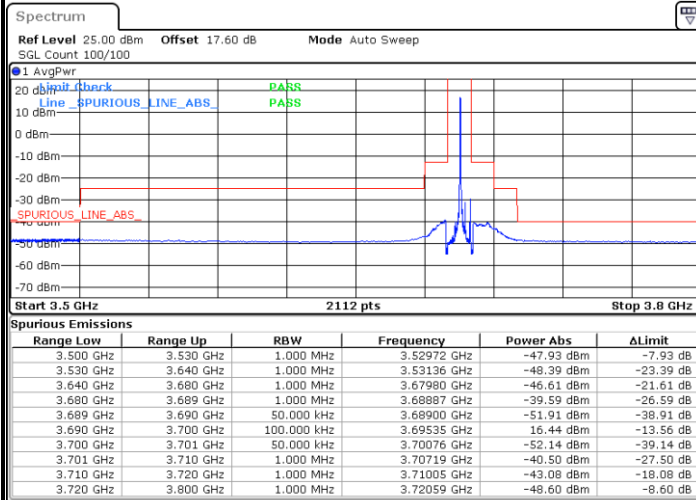
Date: 7.JAN.2025 21:13:40



LTE Band 48 / 5MHz

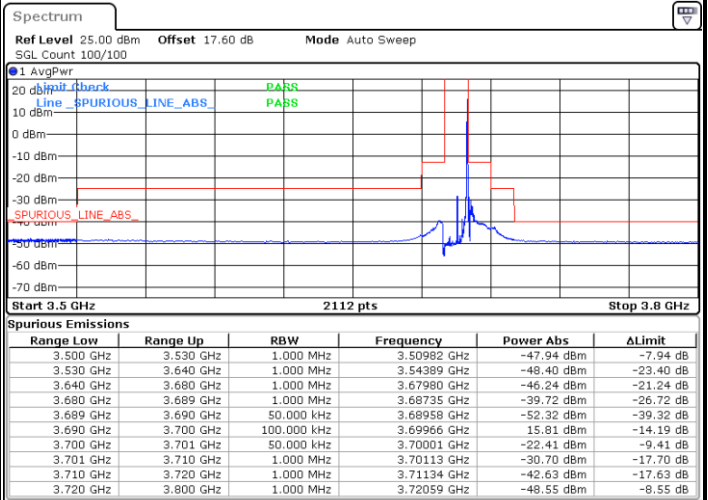
256QAM

Highest Channel / 1RB0



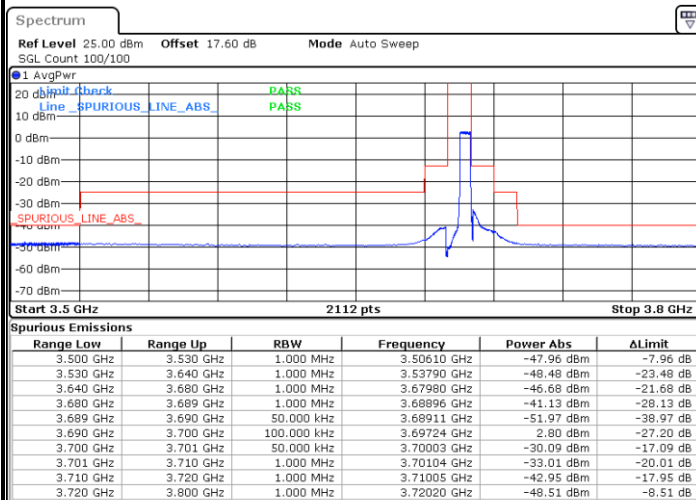
Date: 7.JAN.2025 21:06:28

Highest Channel / 1RBmax



Date: 7.JAN.2025 21:28:10

Highest Channel / FullIRB



Date: 7.JAN.2025 21:17:16

N/A

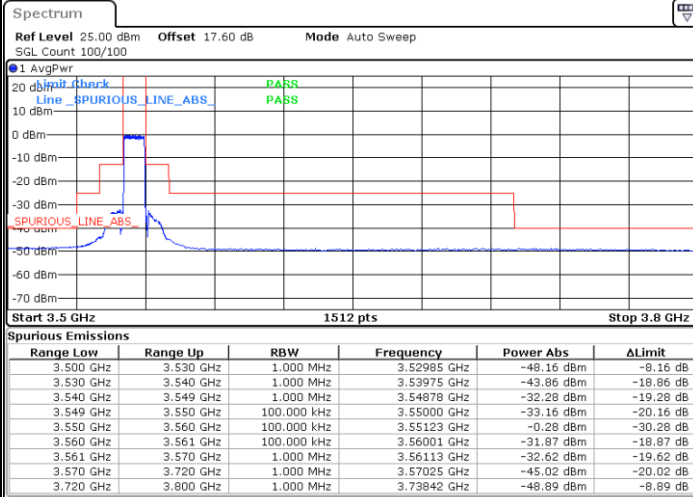


LTE Band 48 / 10MHz

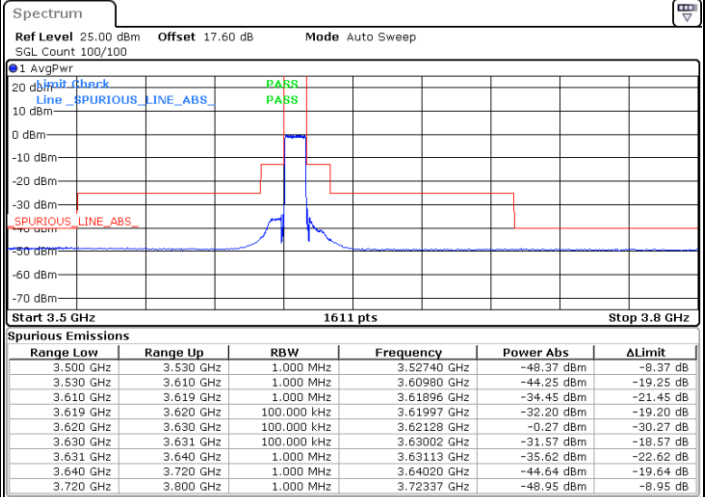
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



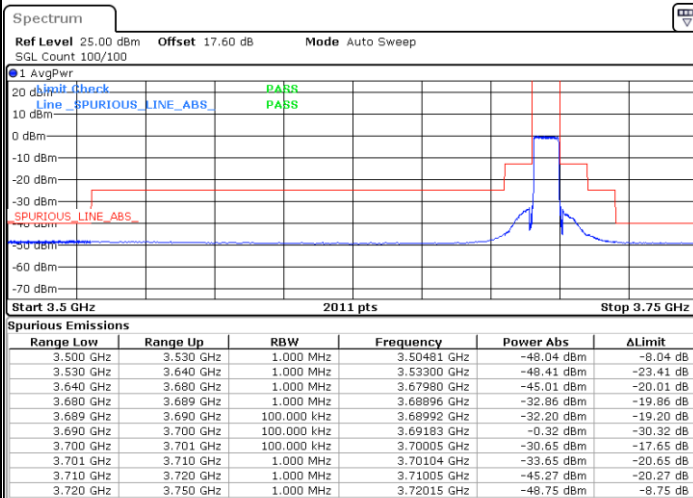
Date: 7.JAN.2025 21:49:32



Date: 7.JAN.2025 21:53:06

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 21:56:43

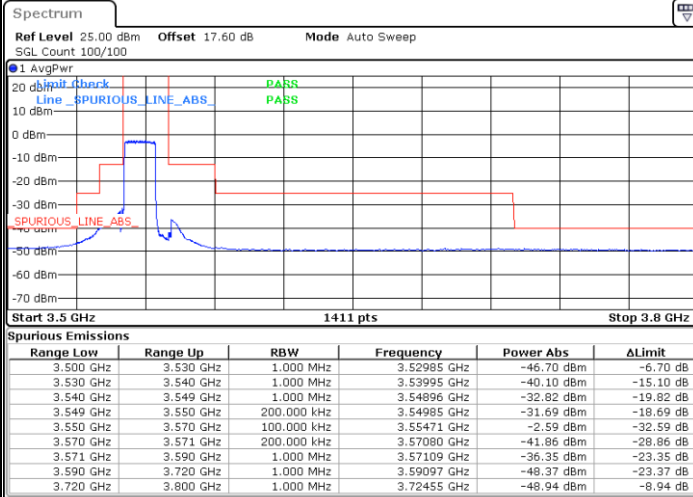


LTE Band 48 / 15MHz

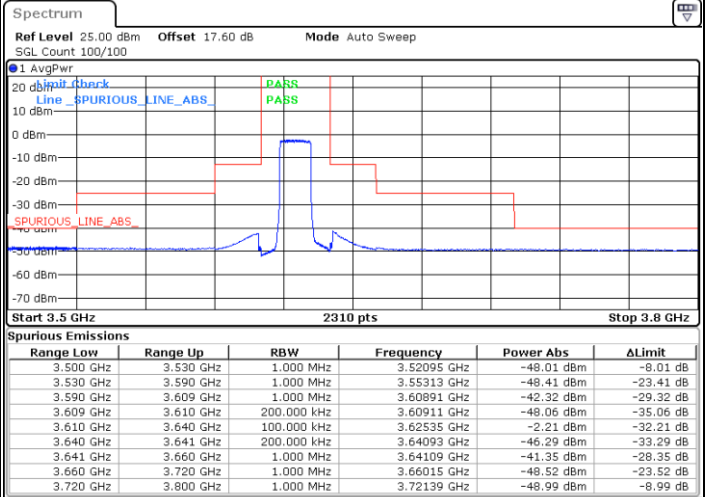
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



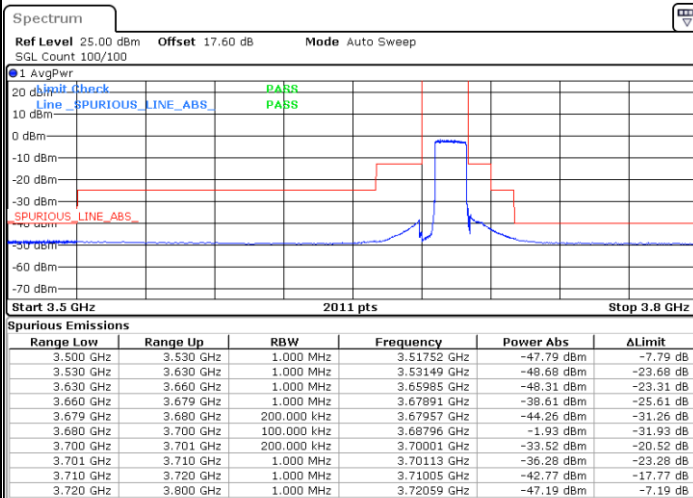
Date: 7.JAN.2025 22:00:22



Date: 7.JAN.2025 22:03:56

Highest Channel / FullIRB

N/A



Date: 7.JAN.2025 22:07:33

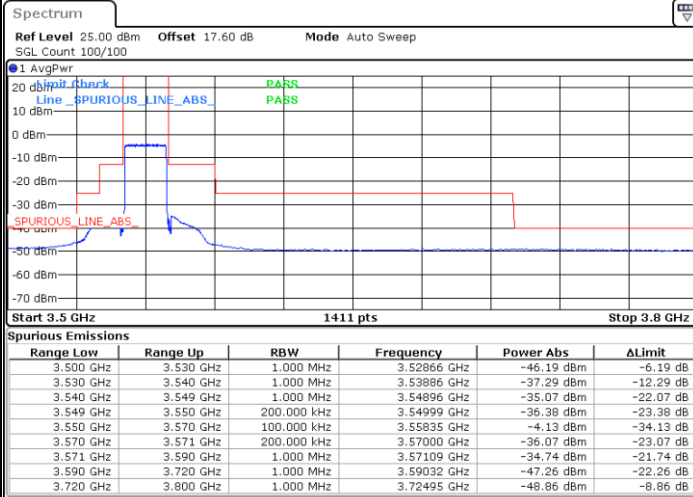


LTE Band 48 / 20MHz

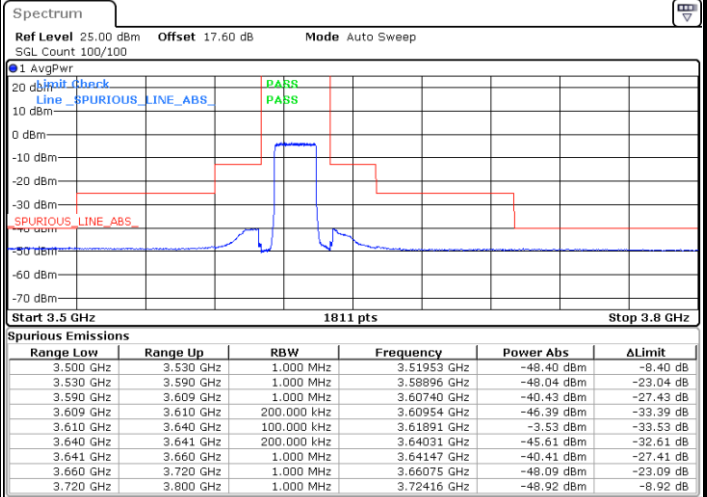
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



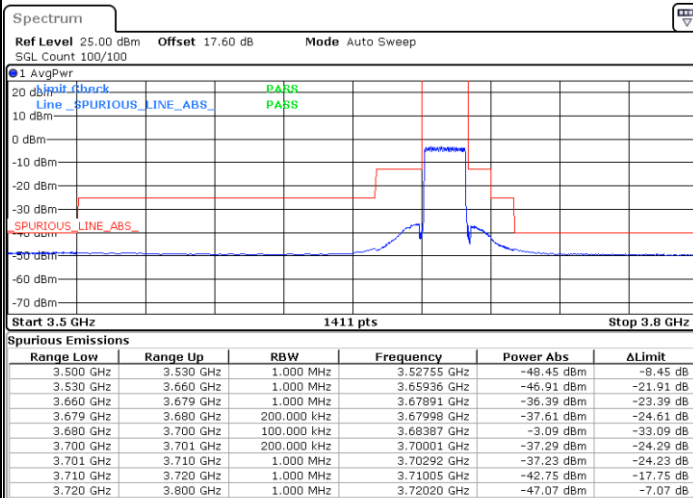
Date: 7, JAN, 2025 22:16:30



Date: 7, JAN, 2025 22:20:05

Highest Channel / FullIRB

N/A



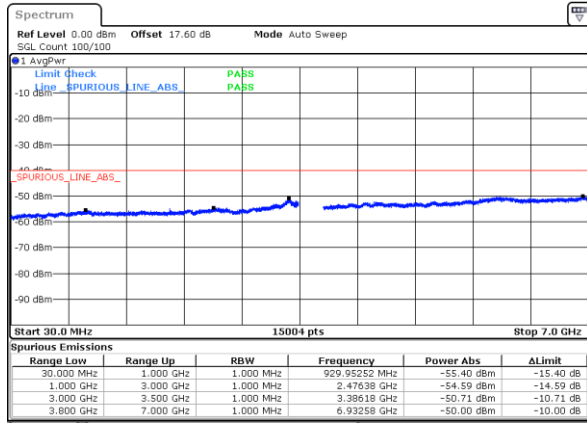
Date: 7, JAN, 2025 22:23:51



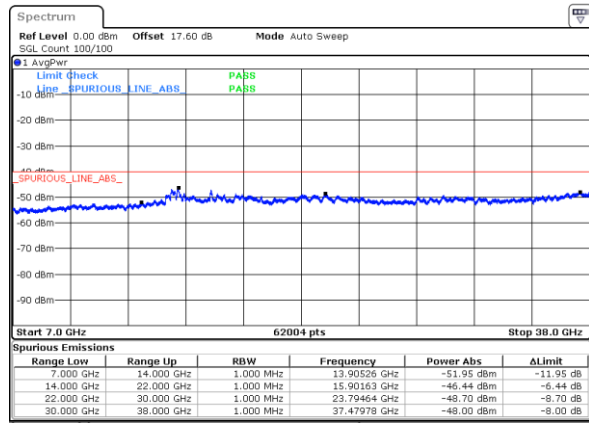
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

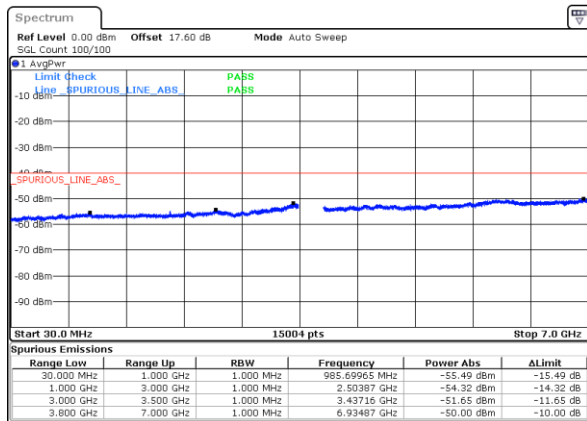


Date: 7.JAN.2025 22:25:12

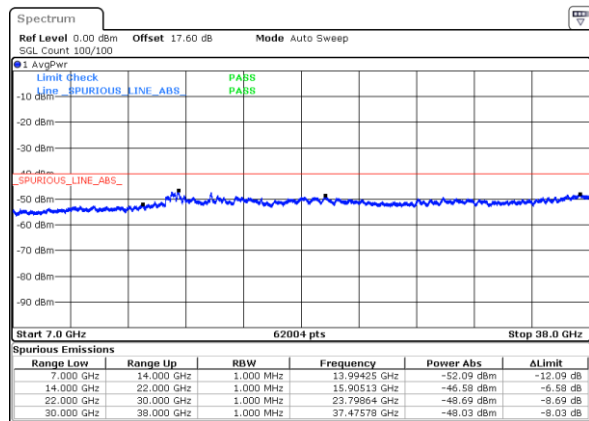


Date: 11.FEB.2025 16:37:55

Middle Channel / QPSK

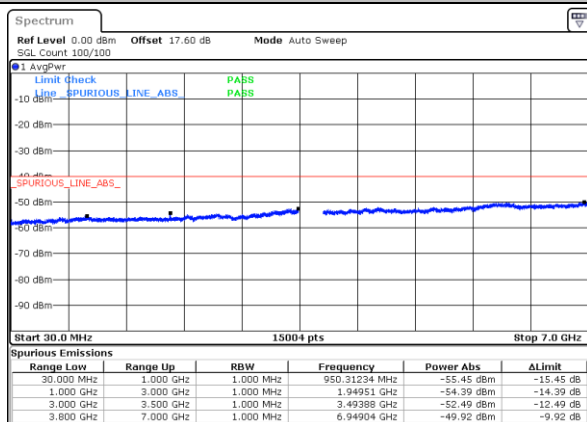


Date: 7.JAN.2025 22:26:31

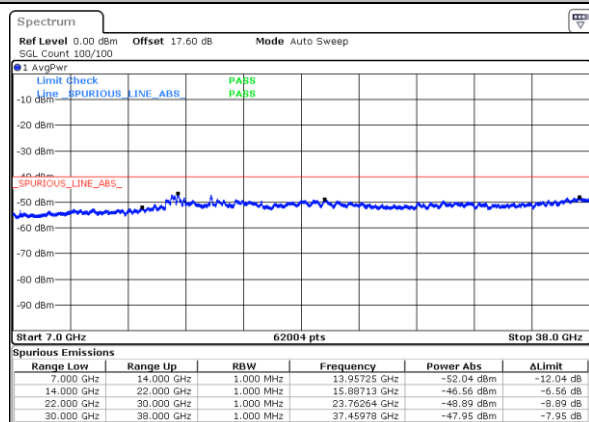


Date: 11.FEB.2025 16:40:09

Highest Channel / QPSK



Date: 7.JAN.2025 22:27:49

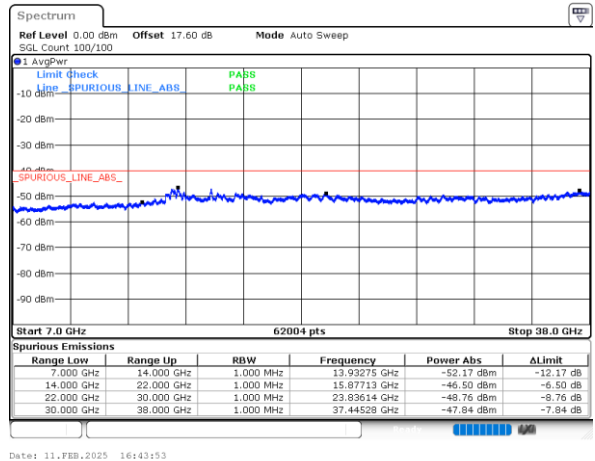
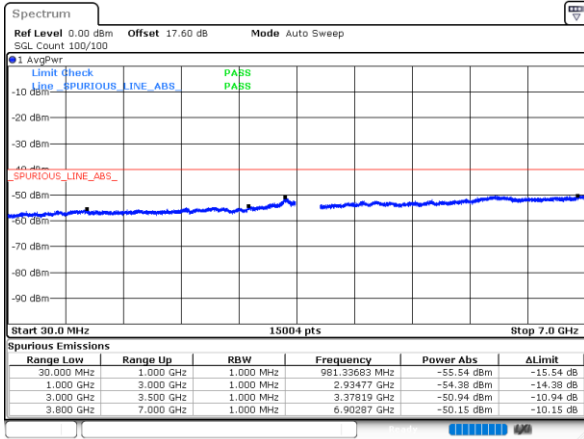


Date: 11.FEB.2025 16:42:03

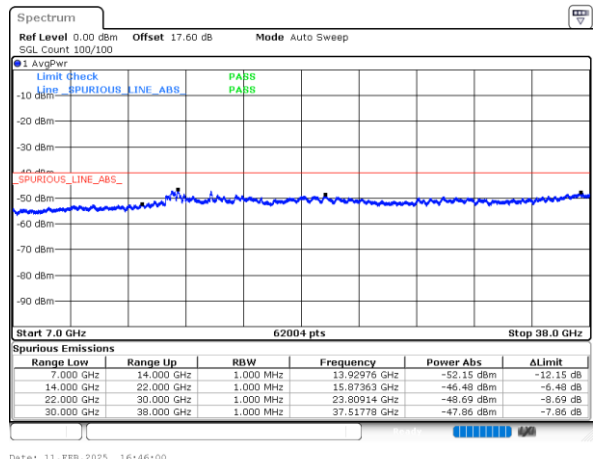
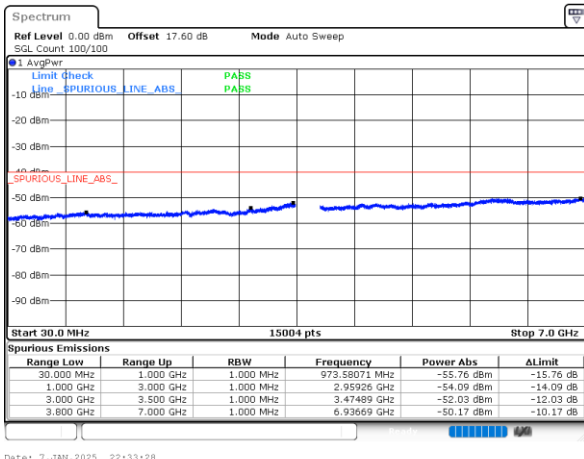


LTE Band 48 / 10MHz

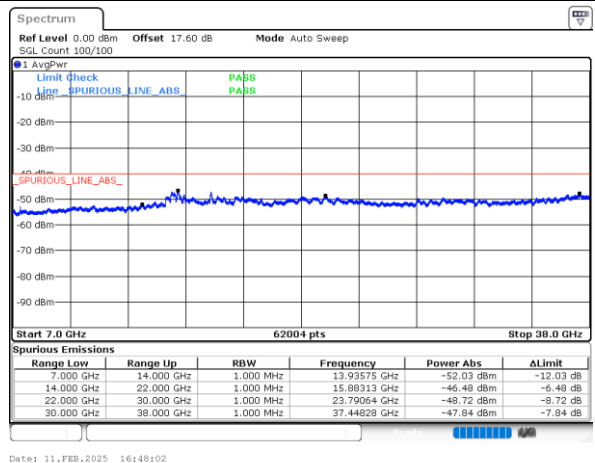
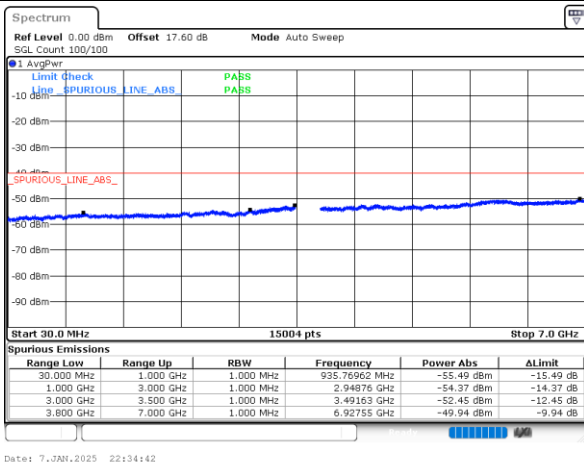
Lowest Channel / QPSK



Middle Channel / QPSK



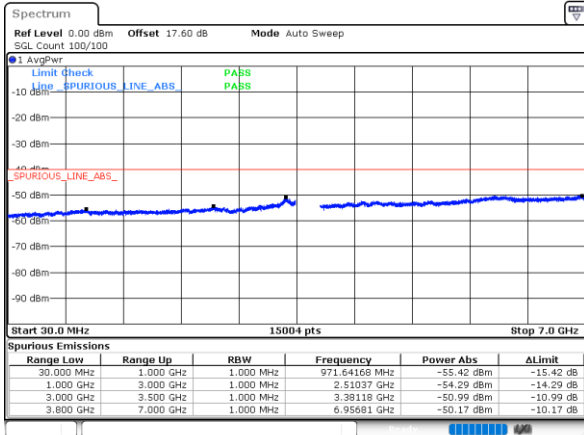
Highest Channel / QPSK



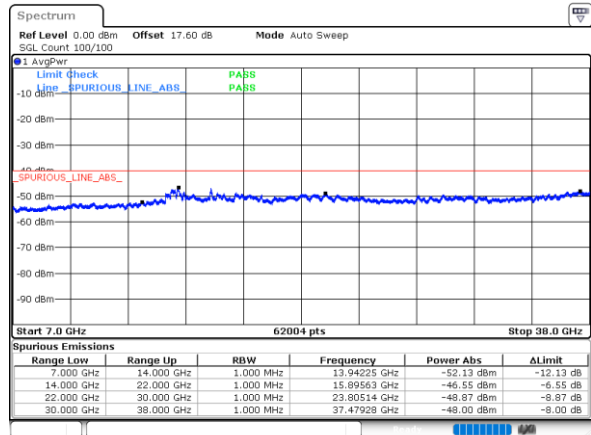


LTE Band 48 / 15MHz

Lowest Channel / QPSK

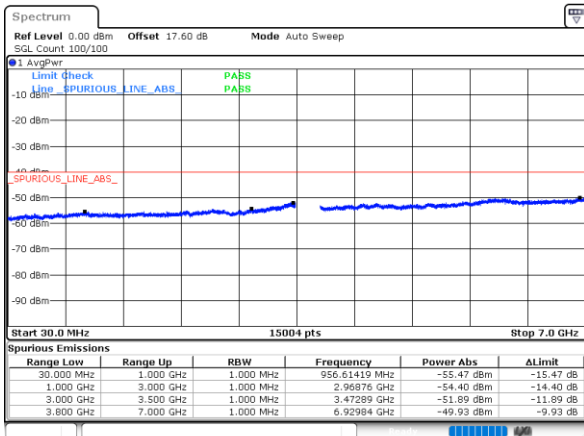


Date: 7.JAN.2025 22:35:58

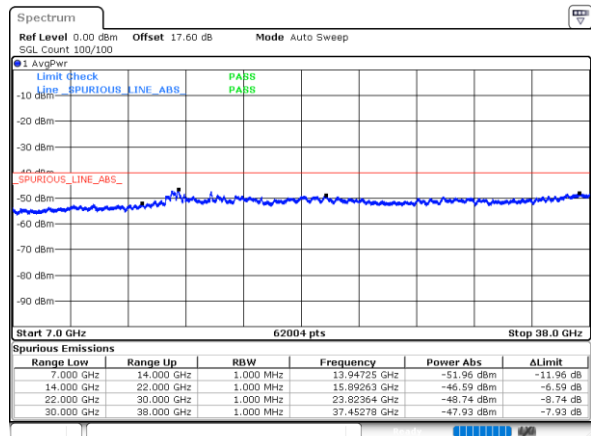


Date: 11.FEB.2025 16:50:39

Middle Channel / QPSK

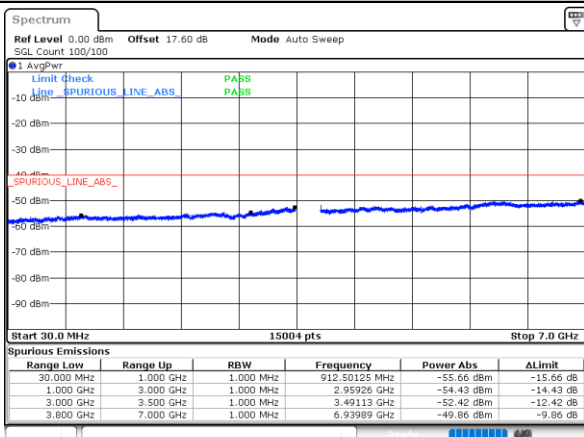


Date: 7.JAN.2025 22:37:15

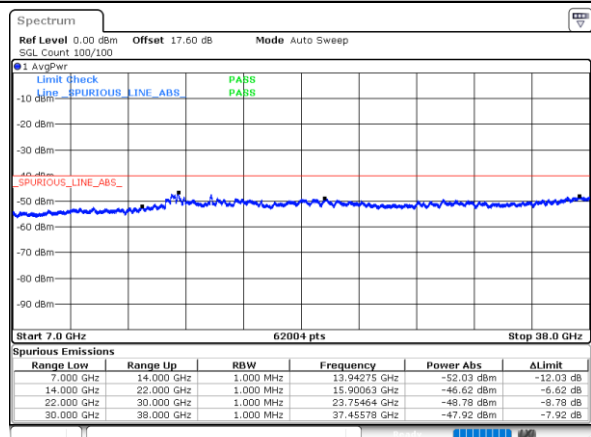


Date: 11.FEB.2025 16:50:31

Highest Channel / QPSK



Date: 7.JAN.2025 22:38:29

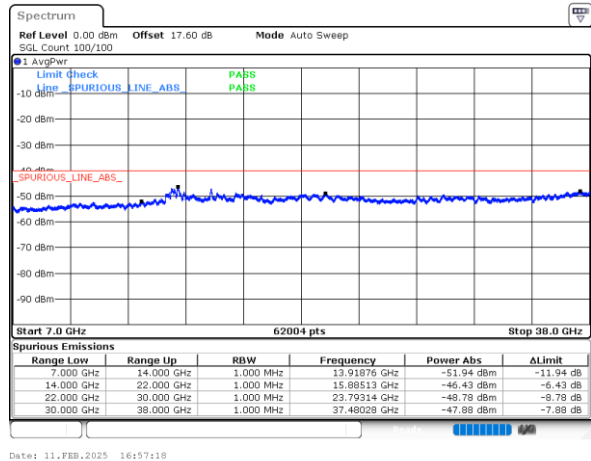
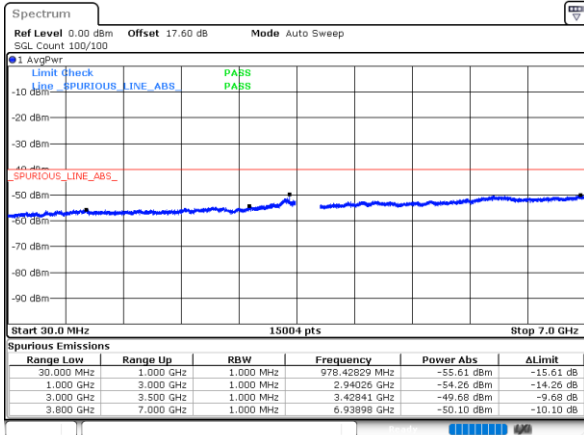


Date: 11.FEB.2025 16:54:28

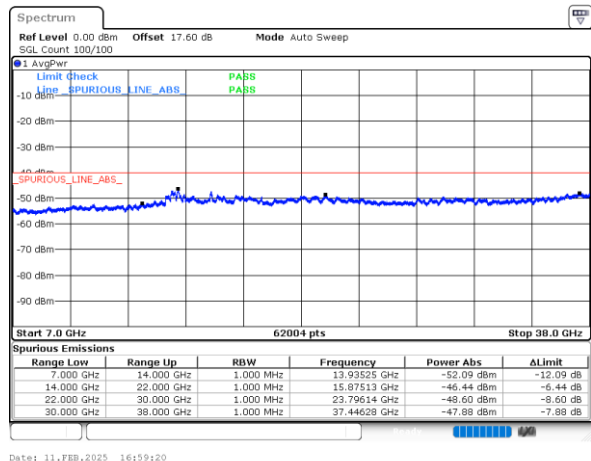
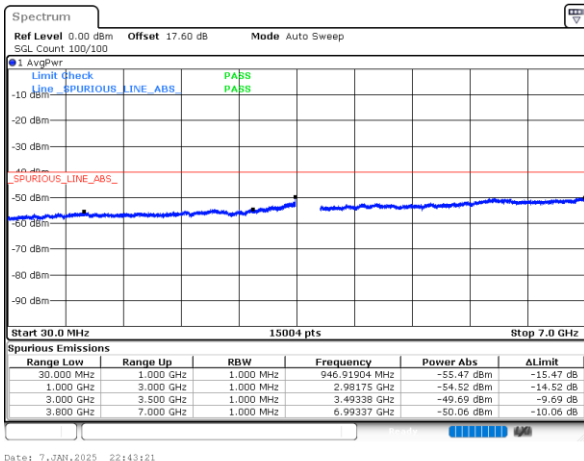


LTE Band 48 / 20MHz

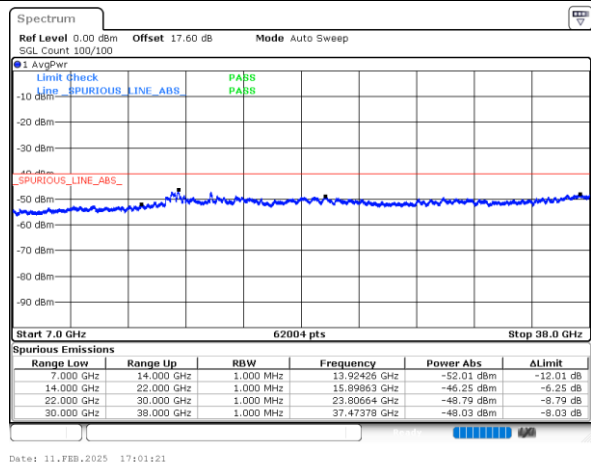
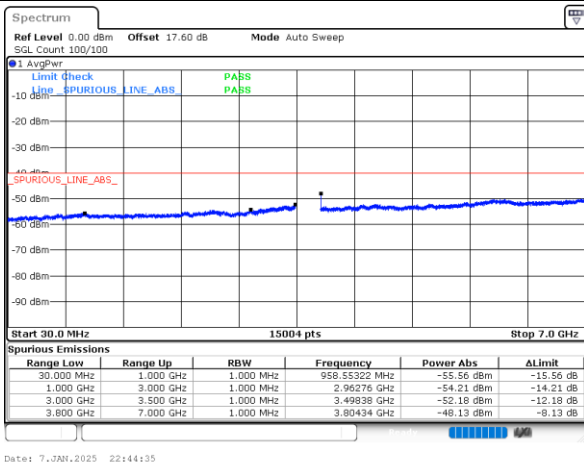
Lowest Channel / QPSK



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	0.0003	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0007	

Note:

1. Normal Voltage = 3.9 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

B1. 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	-49.42	RMS	41.35	-22.54	0.74	-95.23	26.26	-40.00	-9.42	V	Tx0
2	Part 96	LTE B48	H	14724	-49.58	RMS	41.35	-22.54	0.74	-95.23	26.10	-40.00	-9.58	V	Tx1

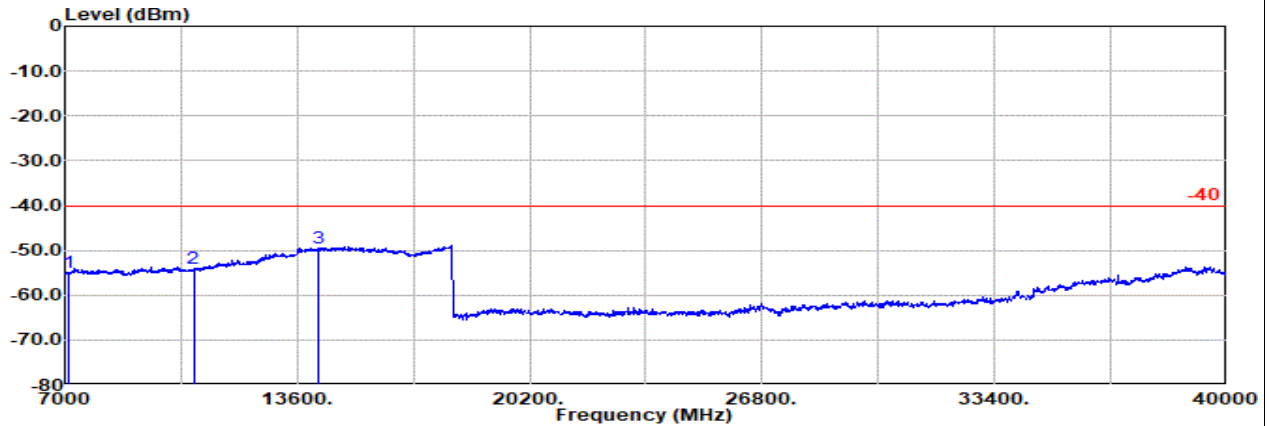


Tx0

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L

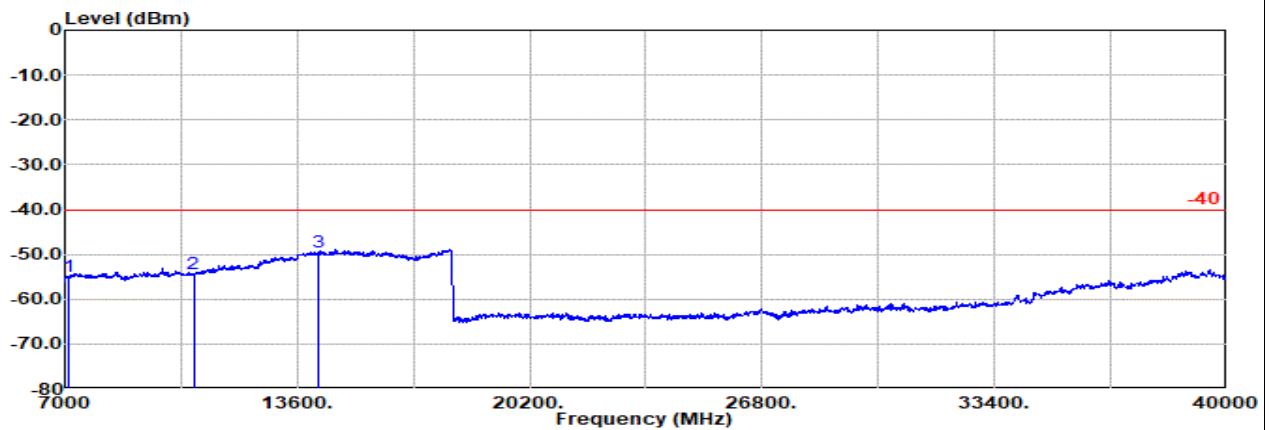


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-54.84	RMS	36.30	-20.88	1.00	-95.23	23.97	-40.00	-14.84	Horizontal
2	10653.00	-54.15	RMS	37.50	-21.43	0.89	-95.23	24.12	-40.00	-14.15	Horizontal
3	14204.00	-49.55	RMS	41.20	-21.96	0.65	-95.23	25.79	-40.00	-9.55	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	-54.87	RMS	36.30	-20.88	1.00	-95.23	23.94	-40.00	-14.87	Vertical
2	10653.00	-54.41	RMS	37.50	-21.43	0.89	-95.23	23.86	-40.00	-14.41	Vertical
3	14204.00	-49.65	RMS	41.20	-21.96	0.65	-95.23	25.69	-40.00	-9.65	Vertical

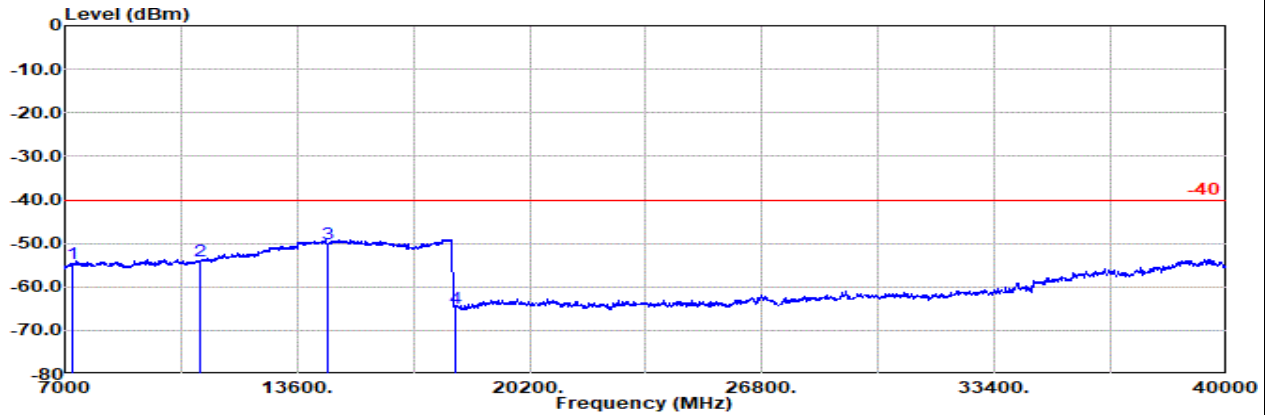


Tx0

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

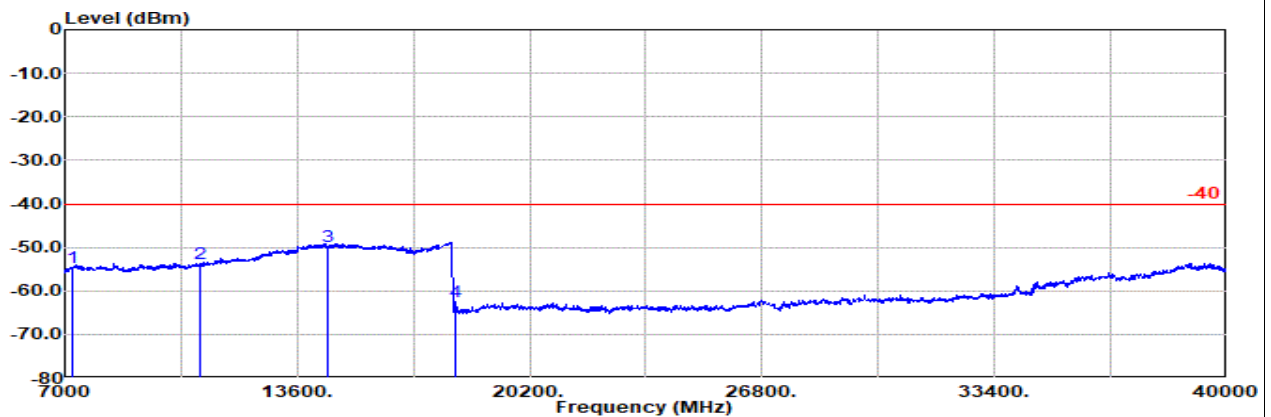


Site : 03CH21-HY

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	-54.78	RMS	36.56	-20.81	1.00	-95.23	23.70	-40.00	-14.78	Horizontal
2	10848.00	-53.89	RMS	37.50	-21.41	0.90	-95.23	24.35	-40.00	-13.89	Horizontal
3	14464.00	-50.03	RMS	41.23	-22.55	0.70	-95.23	25.82	-40.00	-10.03	Horizontal
4	18080.00	-64.76	RMS	37.72	-39.66	-9.54	-95.23	41.95	-40.00	-24.76	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	-54.51	RMS	36.56	-20.81	1.00	-95.23	23.97	-40.00	-14.51	Vertical
2	10848.00	-53.72	RMS	37.50	-21.41	0.90	-95.23	24.52	-40.00	-13.72	Vertical
3	14464.00	-49.70	RMS	41.23	-22.55	0.70	-95.23	26.15	-40.00	-9.70	Vertical
4	18080.00	-62.51	RMS	37.72	-39.66	-9.54	-95.23	44.20	-40.00	-22.51	Vertical

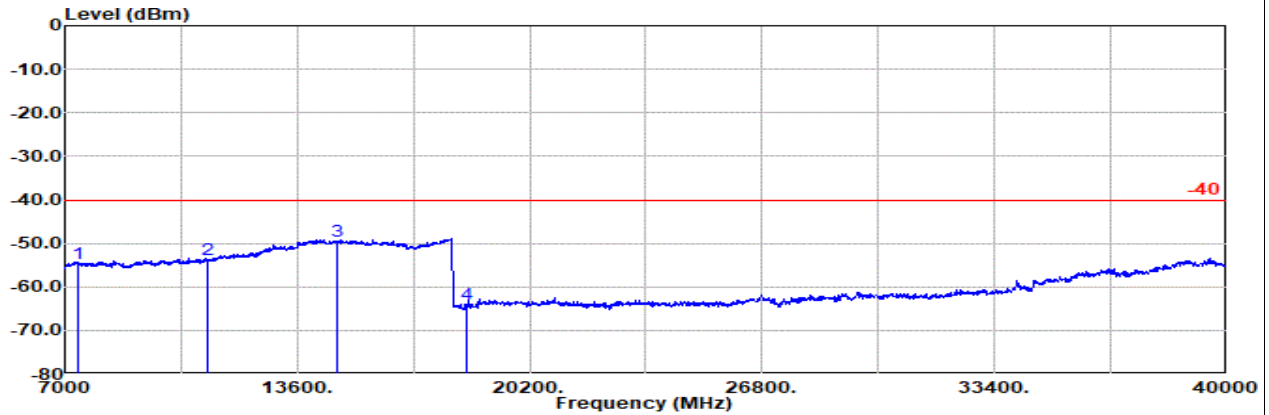


Tx0

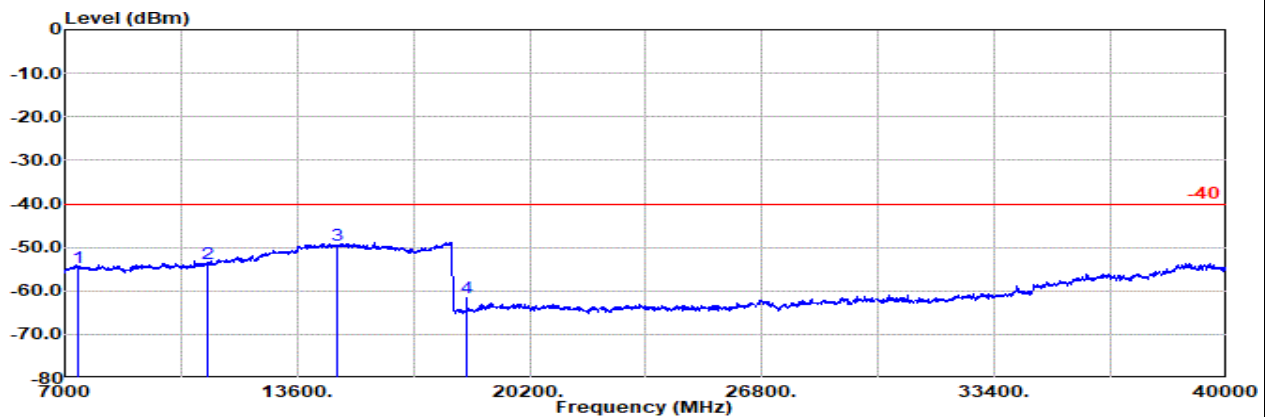
Part 96 Mode 1

LTE B48 20M Ch56640 1RB0 QPSK

H



	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	-54.54	RMS	36.80	-20.74	1.06	-95.23	23.57	-40.00	-14.54	Horizontal
2	11043.00	-53.76	RMS	37.79	-21.41	0.91	-95.23	24.18	-40.00	-13.76	Horizontal
3	14724.00	-49.54	RMS	41.35	-22.54	0.74	-95.23	26.14	-40.00	-9.54	Horizontal
4	18405.00	-63.90	RMS	37.93	-39.90	-9.54	-95.23	42.84	-40.00	-23.90	Horizontal



	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	-54.64	RMS	36.80	-20.74	1.06	-95.23	23.47	-40.00	-14.64	Vertical
2	11043.00	-53.72	RMS	37.79	-21.41	0.91	-95.23	24.22	-40.00	-13.72	Vertical
3	14724.00	-49.42	RMS	41.35	-22.54	0.74	-95.23	26.26	-40.00	-9.42	Vertical
4	18405.00	-61.49	RMS	37.93	-39.90	-9.54	-95.23	45.25	-40.00	-21.49	Vertical

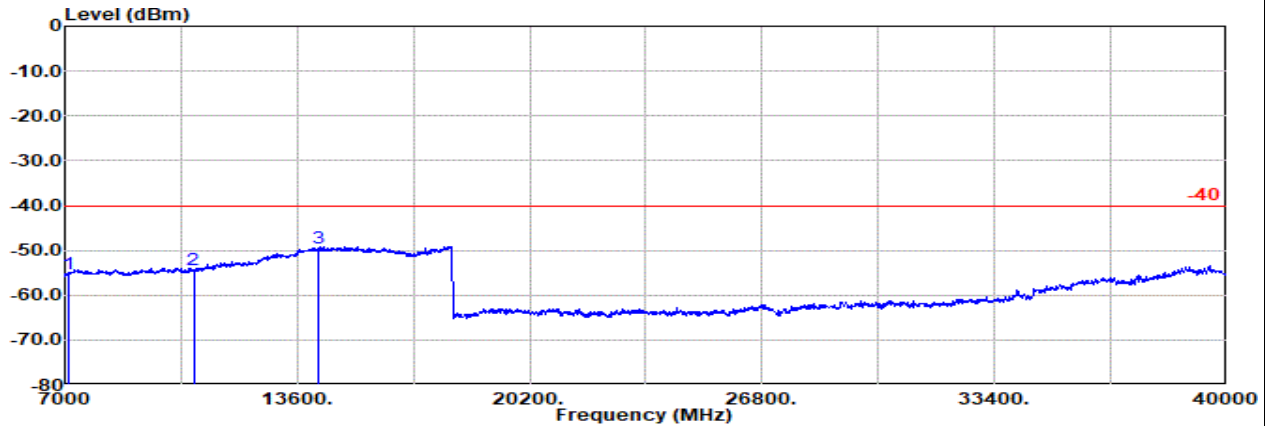


Tx1

Part 96 Mode 2

LTE B48 20M Ch55340 1RB0 QPSK

L

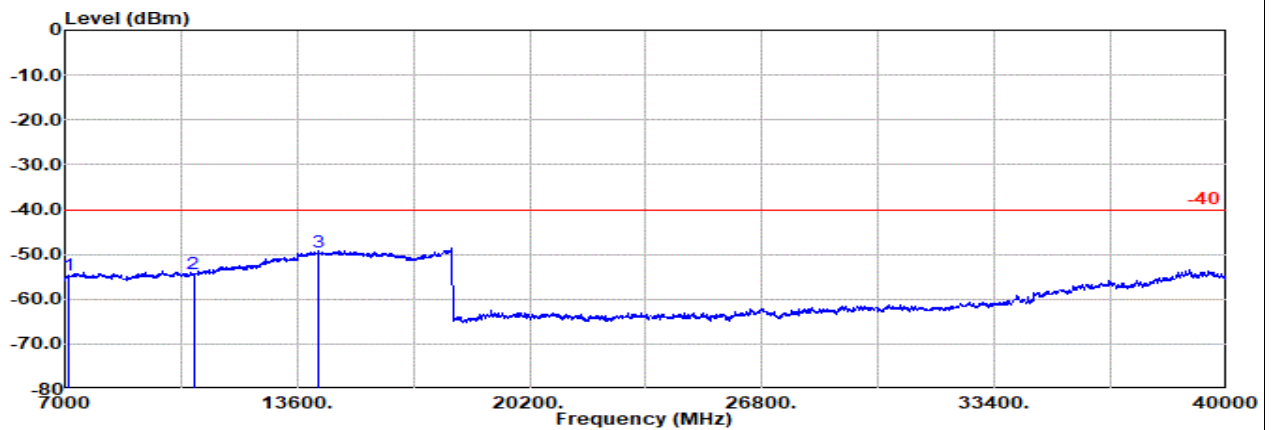


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-55.15	RMS	36.30	-20.88	1.00	-95.23	23.66	-40.00	-15.15	Horizontal
2	10653.00	-54.44	RMS	37.50	-21.43	0.89	-95.23	23.83	-40.00	-14.44	Horizontal
3	14204.00	-49.59	RMS	41.20	-21.96	0.65	-95.23	25.75	-40.00	-9.59	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch55340 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	7102.00	-54.72	RMS	36.30	-20.88	1.00	-95.23	24.09	-40.00	-14.72	Vertical
2	10653.00	-54.25	RMS	37.50	-21.43	0.89	-95.23	24.02	-40.00	-14.25	Vertical
3	14204.00	-49.61	RMS	41.20	-21.96	0.65	-95.23	25.73	-40.00	-9.61	Vertical

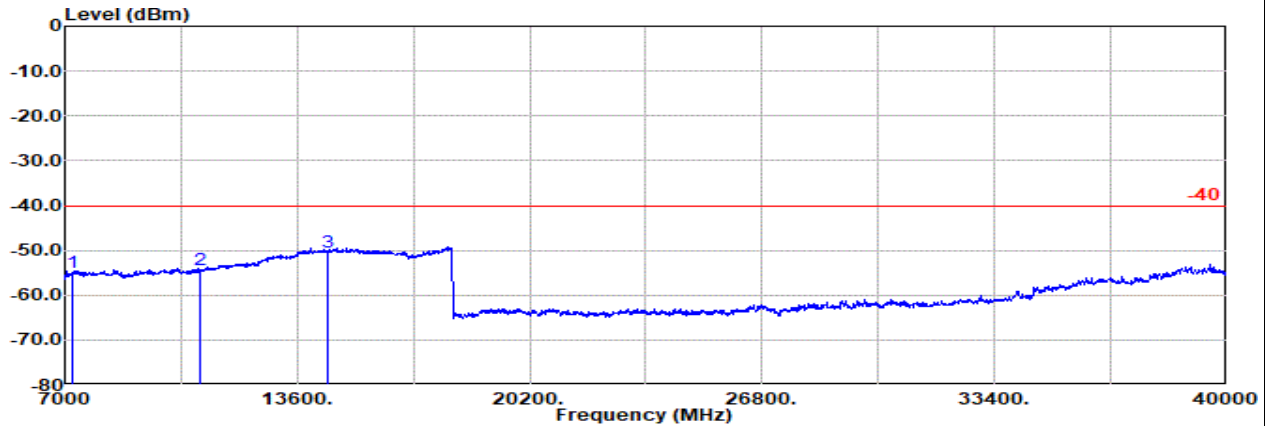


Tx1

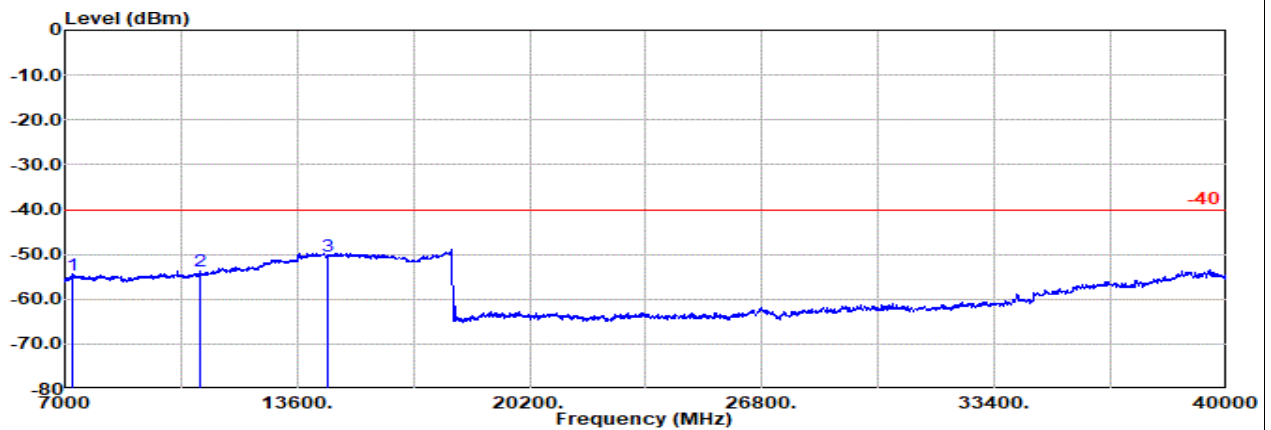
Part 96 Mode 2

LTE B48 20M Ch55990 1RB0 QPSK

M



	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	dB			dBuV	dBm	dB	
1	7232.00	-54.98	RMS	36.56	-20.81	1.00	-95.23	23.50	-40.00	-14.98	Horizontal
2	10848.00	-54.38	RMS	37.50	-21.41	0.90	-95.23	23.86	-40.00	-14.38	Horizontal
3	14464.00	-50.43	RMS	41.23	-22.55	0.70	-95.23	25.42	-40.00	-10.43	Horizontal



	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	dB			dBuV	dBm	dB	
1	7232.00	-54.78	RMS	36.56	-20.81	1.00	-95.23	23.70	-40.00	-14.78	Vertical
2	10848.00	-53.78	RMS	37.50	-21.41	0.90	-95.23	24.46	-40.00	-13.78	Vertical
3	14464.00	-50.35	RMS	41.23	-22.55	0.70	-95.23	25.50	-40.00	-10.35	Vertical

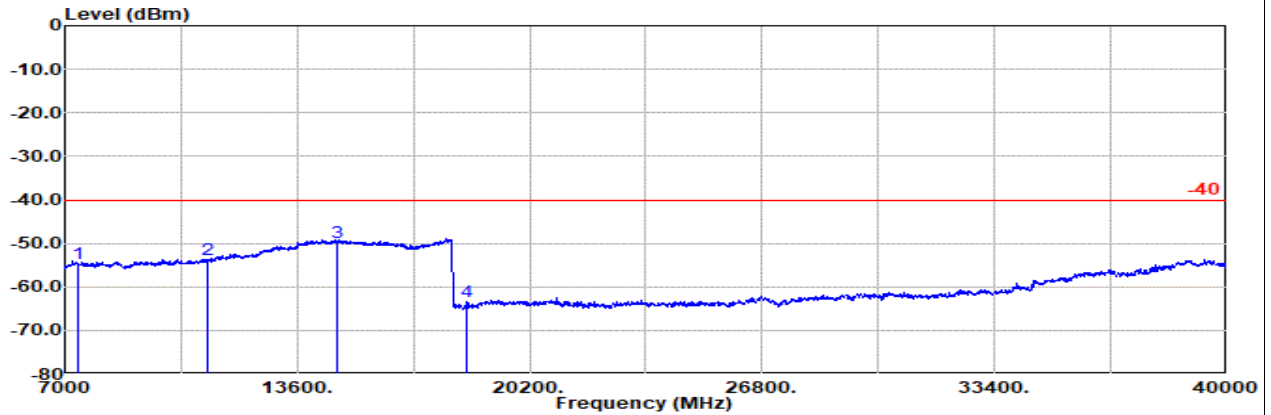


Tx1

Part 96 Mode 2

LTE B48 20M Ch56640 1RB0 QPSK

H

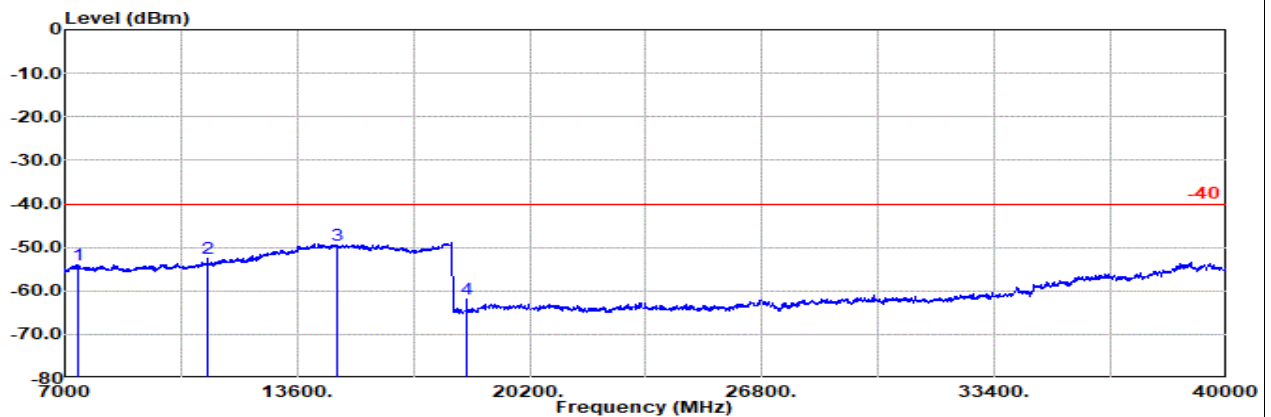


Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Horizontal

: LTE B48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-54.54	RMS	36.80	-20.74	1.06	-95.23	23.57	-40.00	-14.54	Horizontal
2	11043.00	-53.64	RMS	37.79	-21.41	0.91	-95.23	24.30	-40.00	-13.64	Horizontal
3	14724.00	-49.76	RMS	41.35	-22.54	0.74	-95.23	25.92	-40.00	-9.76	Horizontal
4	18405.00	-63.35	RMS	37.93	-39.90	-9.54	-95.23	43.39	-40.00	-23.35	Horizontal



Site : 03CH21-HY

Condition: -40 1m BBHA9170_1223_240624 Vertical

: LTE B48 20M Ch56640 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	7362.00	-54.04	RMS	36.80	-20.74	1.06	-95.23	24.07	-40.00	-14.04	Vertical
2	11043.00	-52.43	RMS	37.79	-21.41	0.91	-95.23	25.51	-40.00	-12.43	Vertical
3	14724.00	-49.58	RMS	41.35	-22.54	0.74	-95.23	26.10	-40.00	-9.58	Vertical
4	18405.00	-61.96	RMS	37.93	-39.90	-9.54	-95.23	44.78	-40.00	-21.96	Vertical

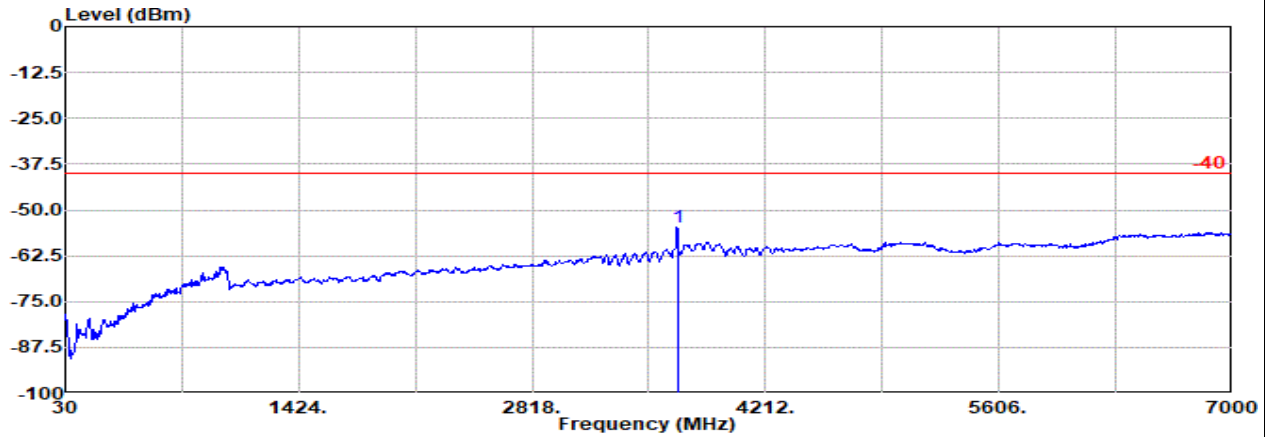


Tx0

Part 96 Mode 1

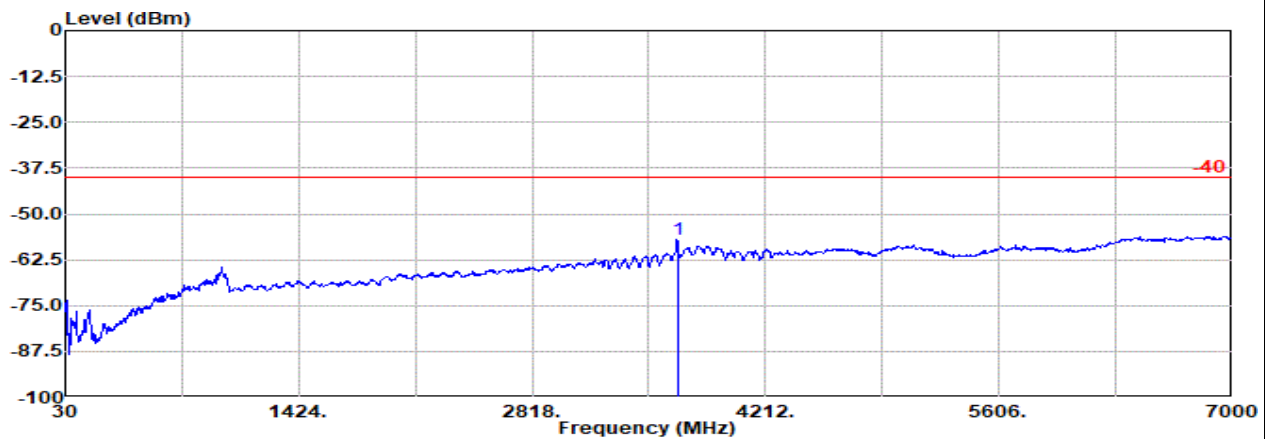
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH21-HY
Condition: -40 3m LF_63303&001_241217 Horizontal
: LTE B48 20M Ch56640 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3690.00	-54.73	RMS	29.56	-22.26	1.01	-95.23	32.19	-40.00	-14.73	Horizontal



Site : 03CH21-HY
Condition: -40 3m LF_63303&001_241217 Vertical
: LTE B48 20M Ch56640 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	3690.00	-56.87	RMS	29.56	-22.26	1.01	-95.23	30.05	-40.00	-16.87	Vertical

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

————THE END————