



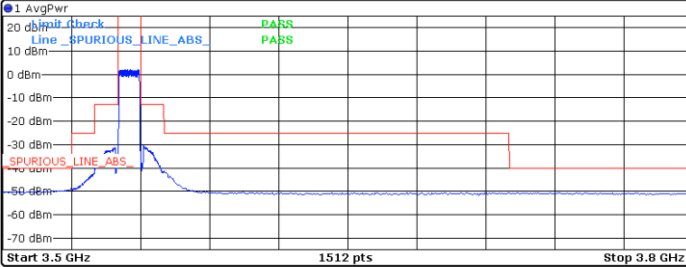
LTE Band 48 / 10MHz

16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB

Spectrum

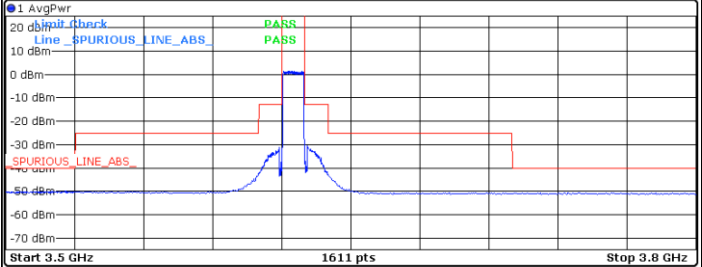
Ref Level 25.00 dBm Offset 17.60 dB Mode Auto Sweep
SGL Count 100/100

Start 3.5 GHz 1512 pts Stop 3.8 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-48.97 dBm	-8.97 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53995 GHz	-42.00 dBm	-17.00 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54869 GHz	-31.06 dBm	-18.06 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.55000 GHz	-35.70 dBm	-22.70 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55547 GHz	2.15 dBm	-27.85 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56004 GHz	-35.71 dBm	-22.71 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56104 GHz	-30.54 dBm	-17.54 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57025 GHz	-41.39 dBm	-16.39 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.75307 GHz	-50.55 dBm	-10.55 dB

Spectrum

Ref Level 25.00 dBm Offset 17.60 dB Mode Auto Sweep
SGL Count 100/100

Start 3.5 GHz 1611 pts Stop 3.8 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52636 GHz	-49.98 dBm	-9.98 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-42.25 dBm	-17.25 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61896 GHz	-31.32 dBm	-18.32 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61999 GHz	-36.08 dBm	-23.08 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62889 GHz	1.39 dBm	-28.61 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63001 GHz	-34.99 dBm	-21.99 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63104 GHz	-30.61 dBm	-17.61 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-43.20 dBm	-18.20 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.74436 GHz	-50.56 dBm	-10.56 dB

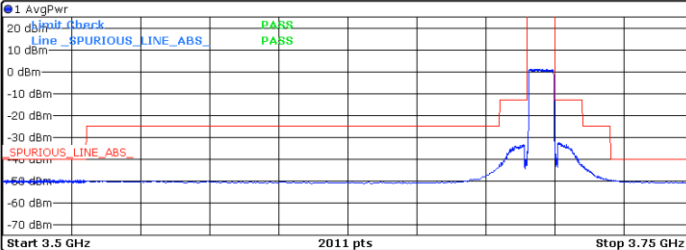
Date: 14.APR.2025 16:47:51

Date: 14.APR.2025 16:50:27

Highest Channel / FullIRB

N/A

Spectrum

Ref Level 25.00 dBm Offset 17.60 dB Mode Auto Sweep
SGL Count 100/100

Start 3.5 GHz 2011 pts Stop 3.75 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52091 GHz	-49.55 dBm	-9.55 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.53408 GHz	-50.19 dBm	-25.19 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67980 GHz	-42.74 dBm	-17.74 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68851 GHz	-33.58 dBm	-20.58 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68998 GHz	-36.59 dBm	-23.59 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69547 GHz	1.18 dBm	-28.82 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70000 GHz	-36.09 dBm	-23.09 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70167 GHz	-32.41 dBm	-19.41 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71054 GHz	-43.35 dBm	-18.35 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72104 GHz	-49.61 dBm	-9.61 dB

Date: 14.APR.2025 16:53:03

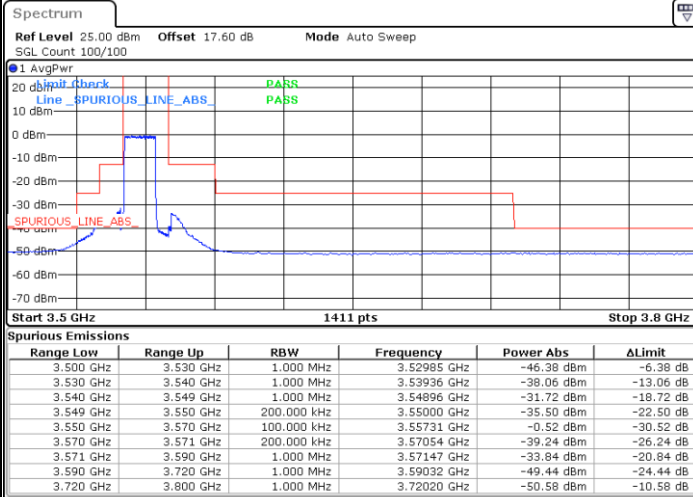


LTE Band 48 / 15MHz

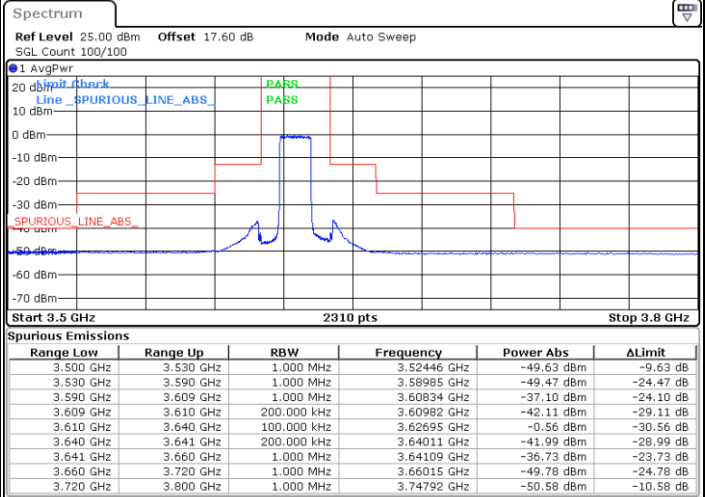
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



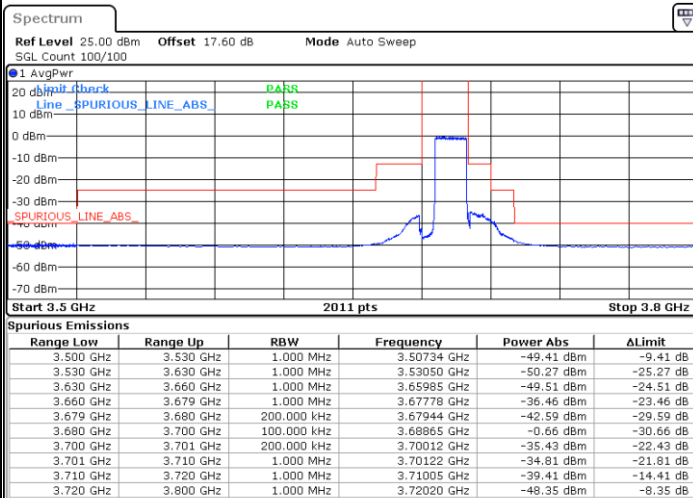
Date: 14.APR.2025 16:55:40



Date: 14.APR.2025 16:58:15

Highest Channel / FullIRB

N/A



Date: 14.APR.2025 17:00:51

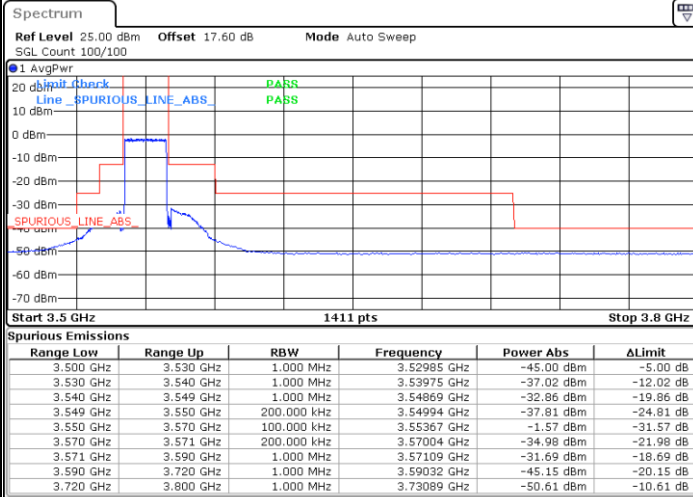


LTE Band 48 / 20MHz

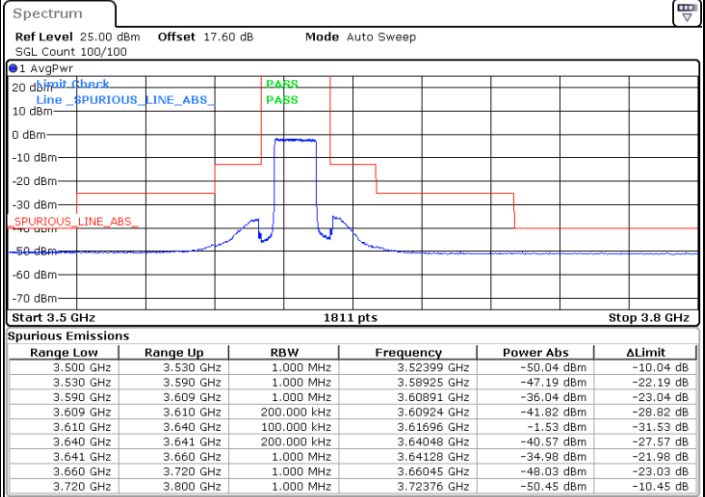
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



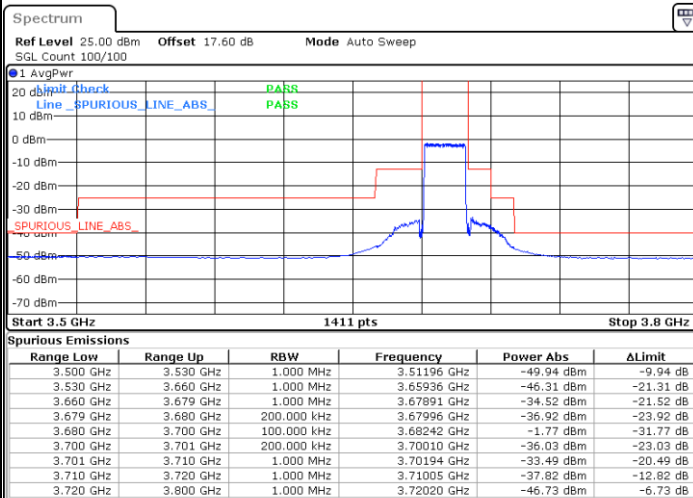
Date: 14.APR.2025 17:03:29



Date: 14.APR.2025 17:06:06

Highest Channel / FullIRB

N/A



Date: 14.APR.2025 17:08:41

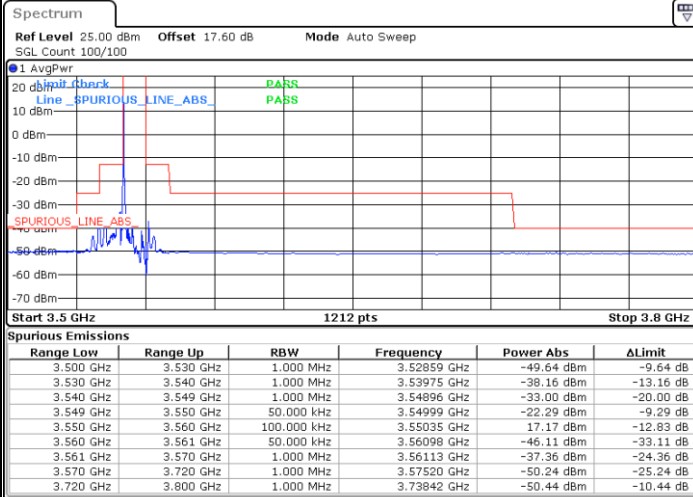


LTE Band 48 / 5MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



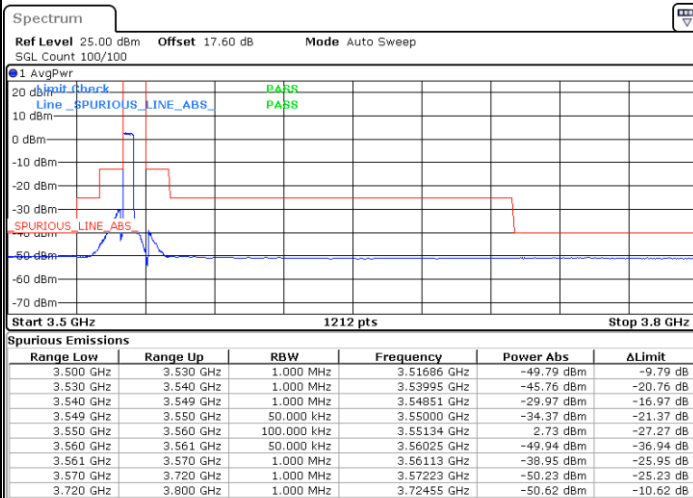
Date: 14.APR.2025 16:25:18



Date: 14.APR.2025 16:40:55

Lowest Channel / FullIRB

N/A



Date: 14.APR.2025 16:33:06

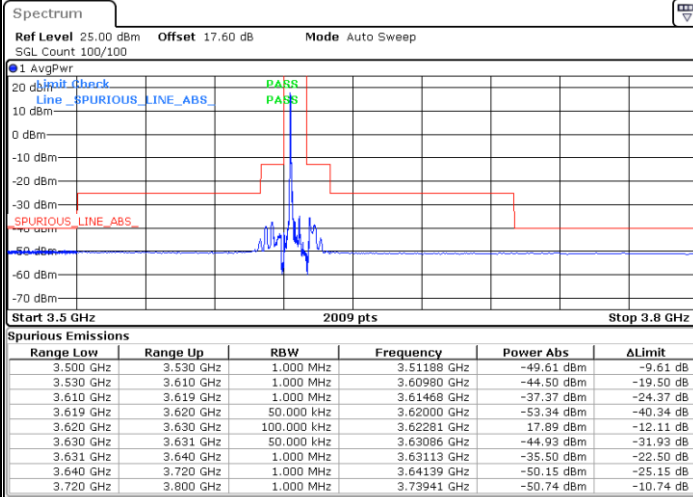


LTE Band 48 / 5MHz

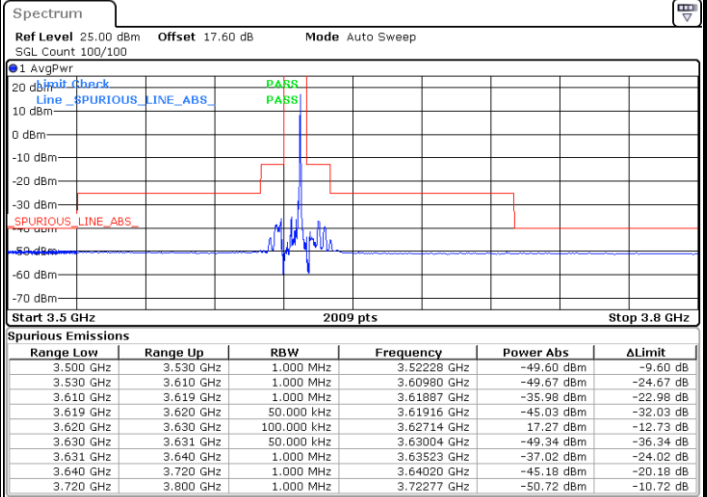
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



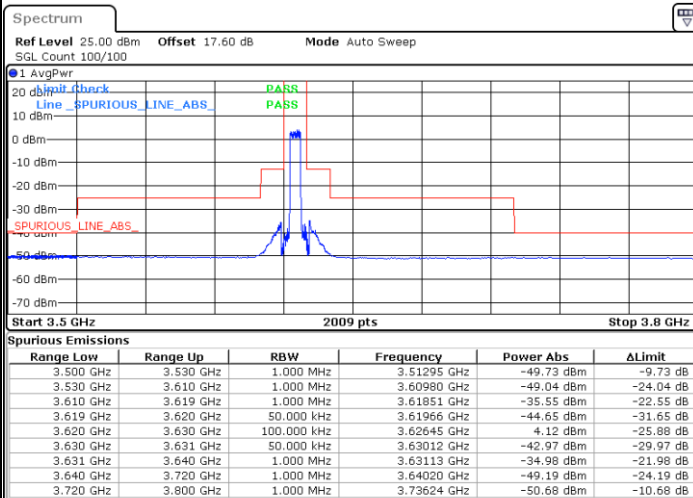
Date: 14.APR.2025 16:27:53



Date: 14.APR.2025 16:43:30

Middle Channel / FullRB

N/A



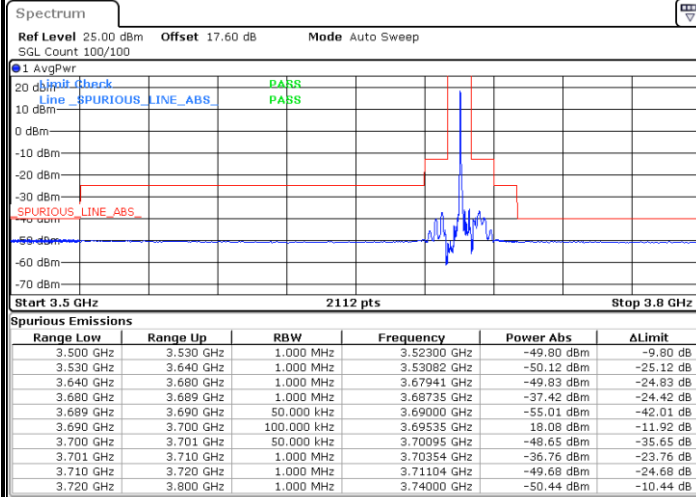
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LTE Band 48 / 5MHz

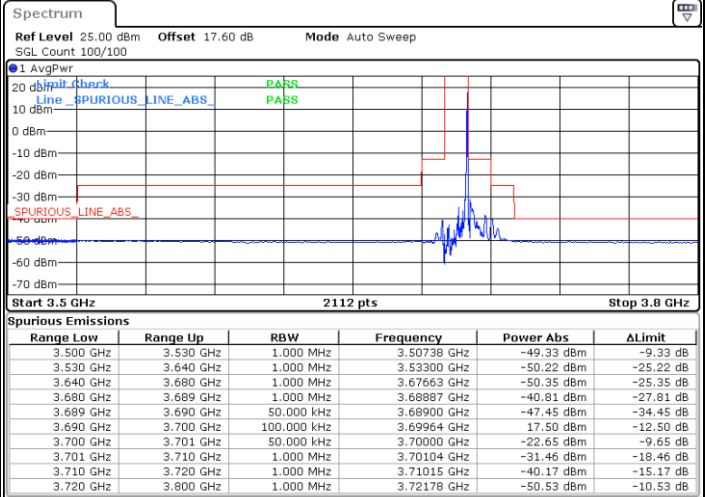
64QAM

Highest Channel / 1RB0



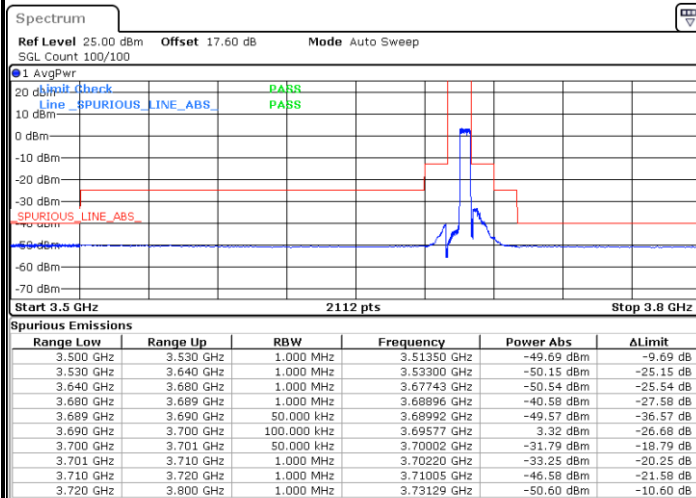
Date: 14.APR.2025 16:30:29

Highest Channel / 1RBmax



Date: 14.APR.2025 16:46:06

Highest Channel / FullIRB



Date: 14.APR.2025 16:38:18

N/A

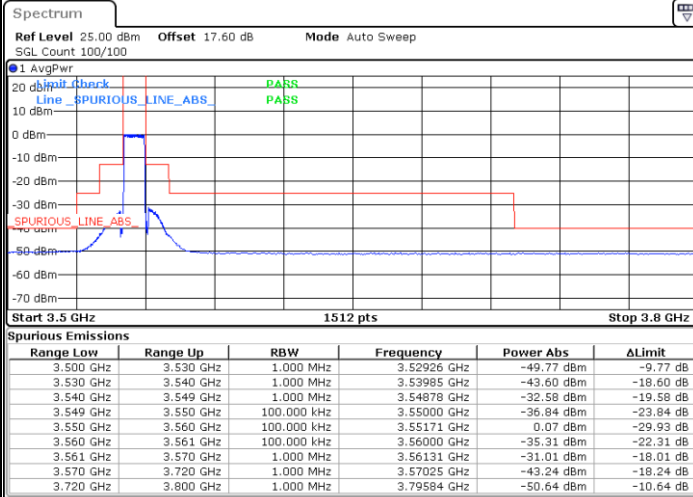


LTE Band 48 / 10MHz

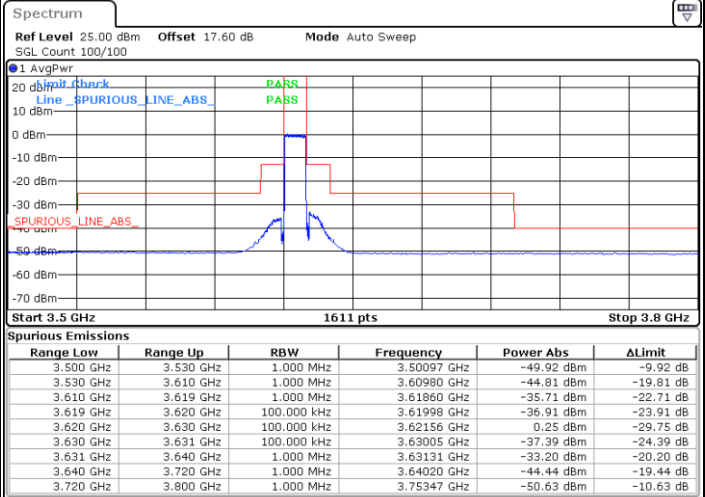
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



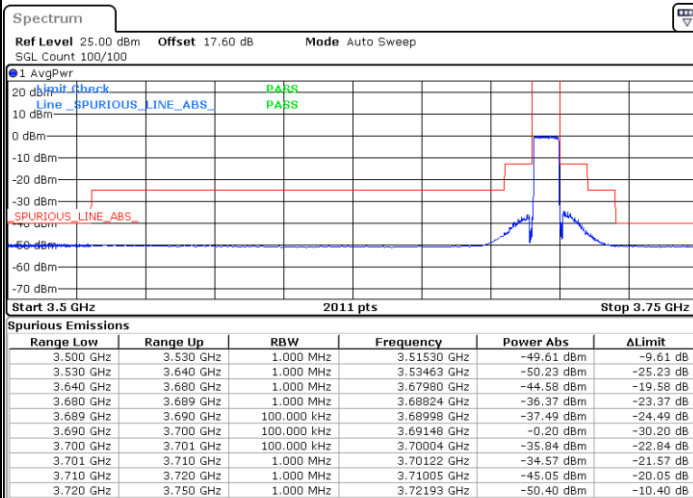
Date: 14.APR.2025 16:48:43



Date: 14.APR.2025 16:51:19

Highest Channel / FullIRB

N/A



Date: 14.APR.2025 16:53:55

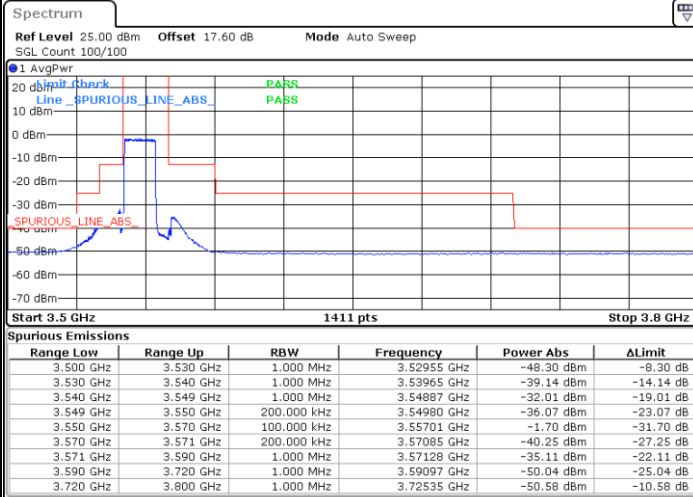


LTE Band 48 / 15MHz

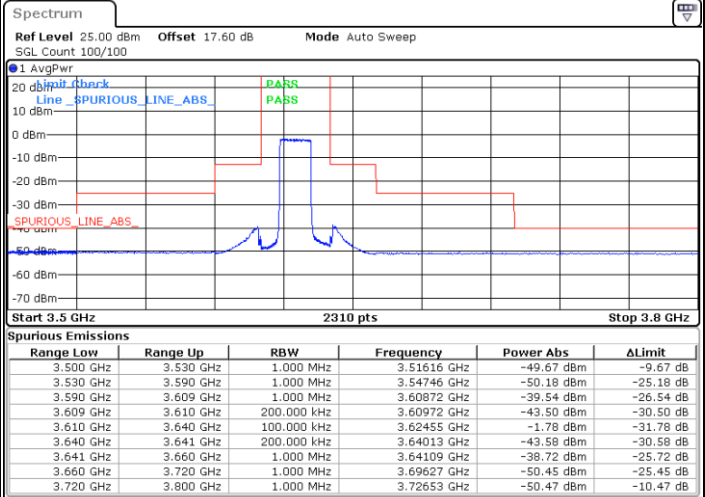
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



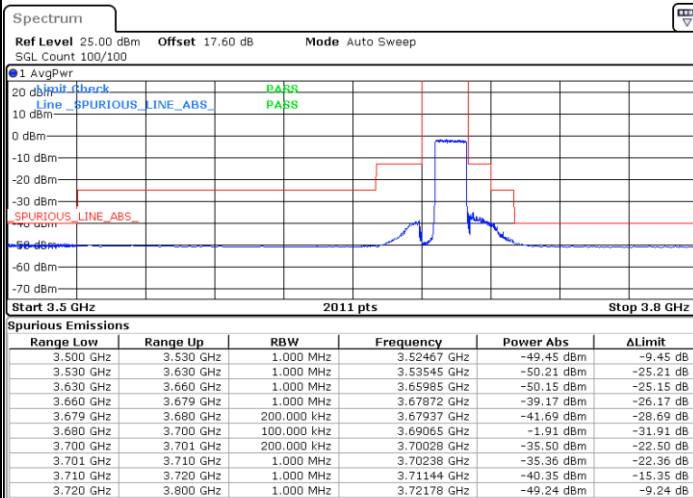
Date: 14.APR.2025 16:56:32



Date: 14.APR.2025 16:59:07

Highest Channel / FullIRB

N/A



Date: 14.APR.2025 17:01:43

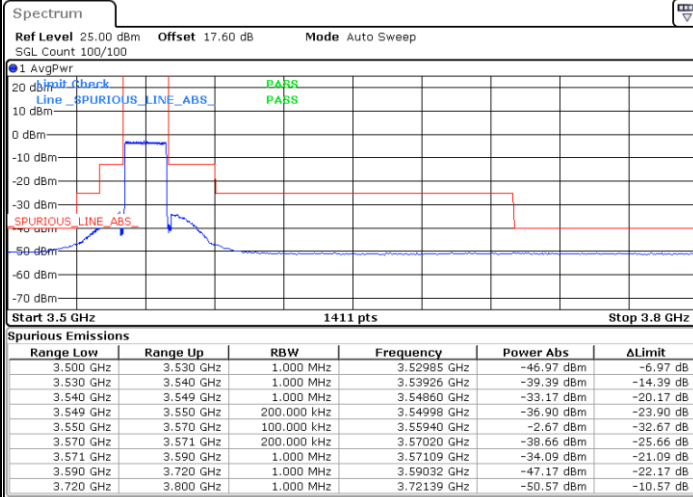


LTE Band 48 / 20MHz

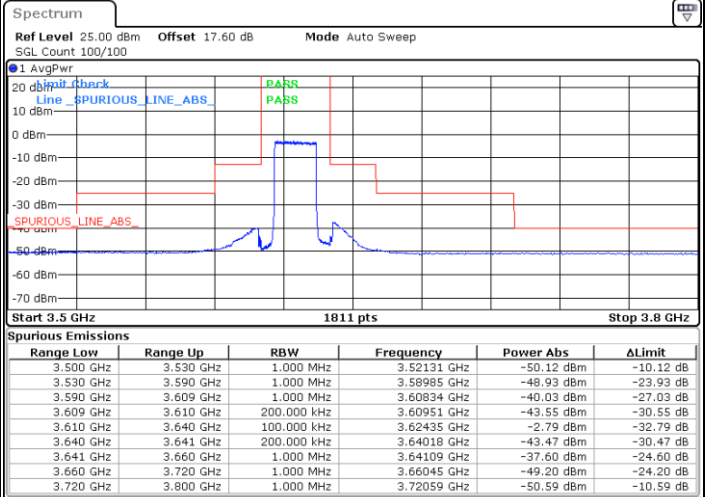
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



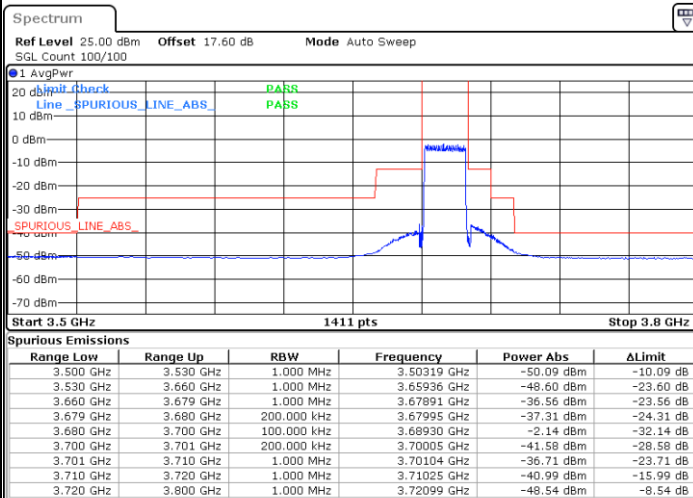
Date: 14.APR.2025 17:04:22



Date: 14.APR.2025 17:06:57

Highest Channel / FullIRB

N/A



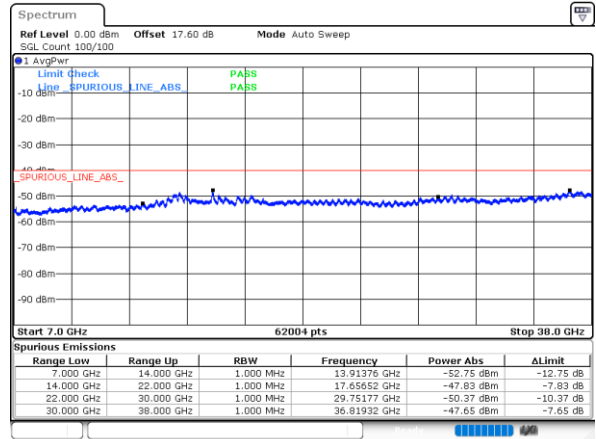
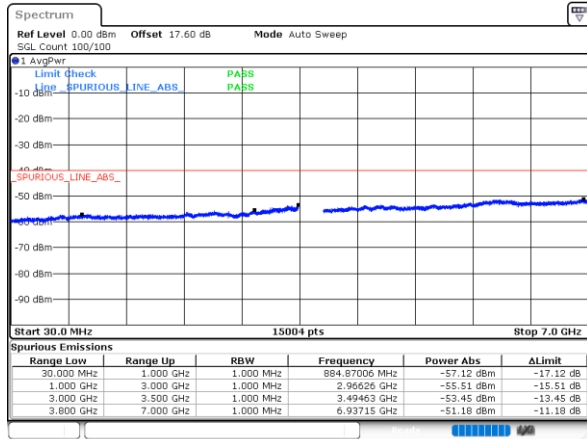
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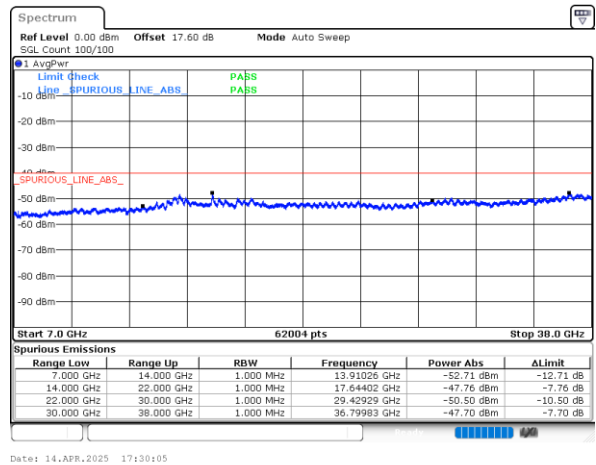
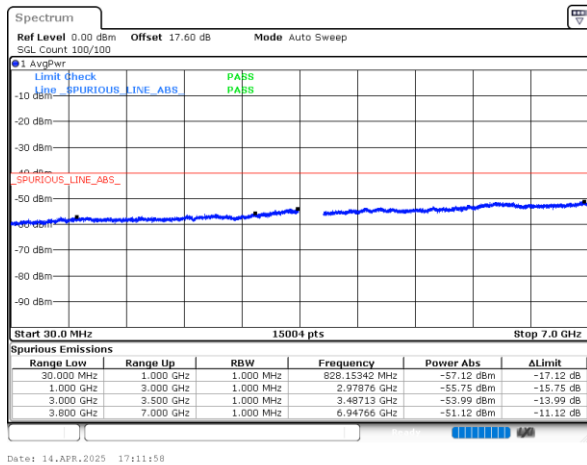
Conducted Spurious Emission

LTE Band 48 / 5MHz

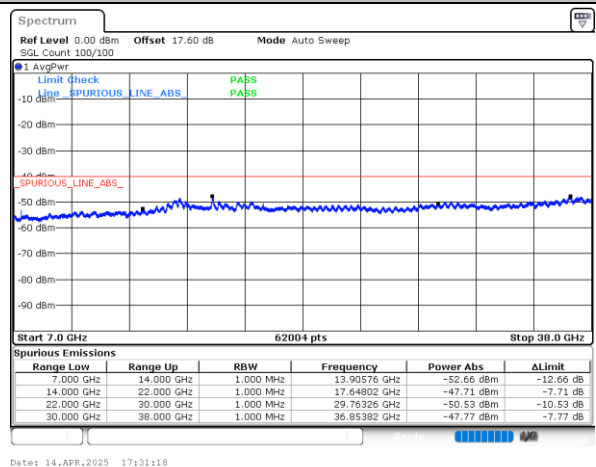
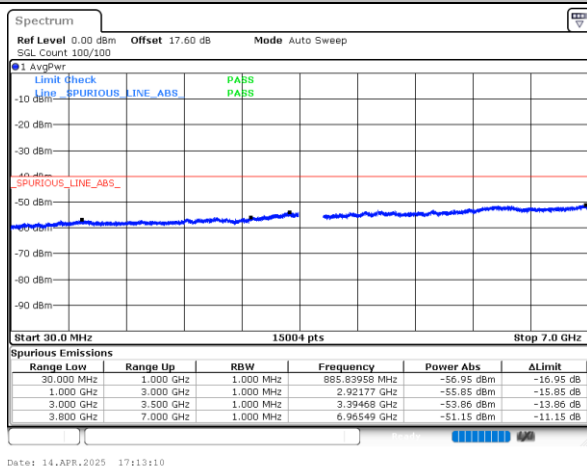
Lowest Channel / QPSK



Middle Channel / QPSK



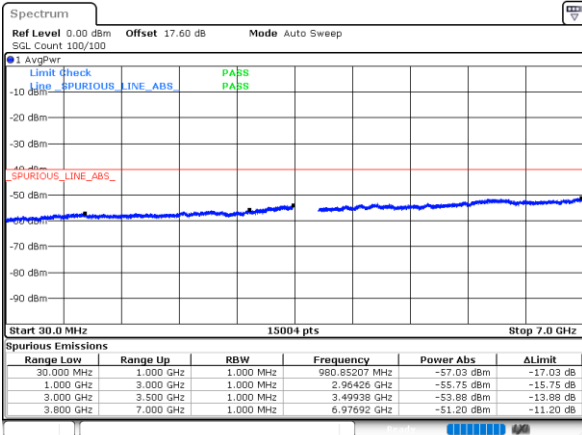
Highest Channel / QPSK



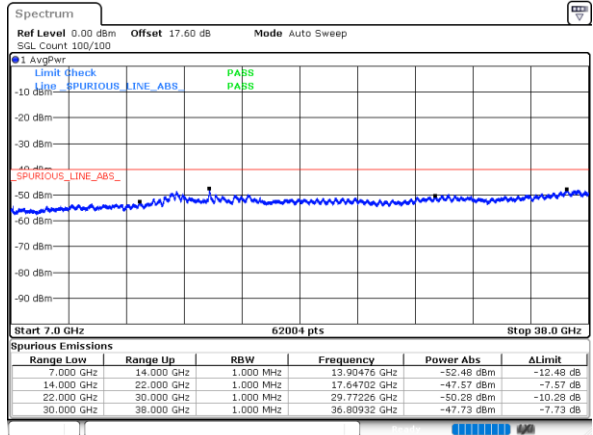


LTE Band 48 / 10MHz

Lowest Channel / QPSK

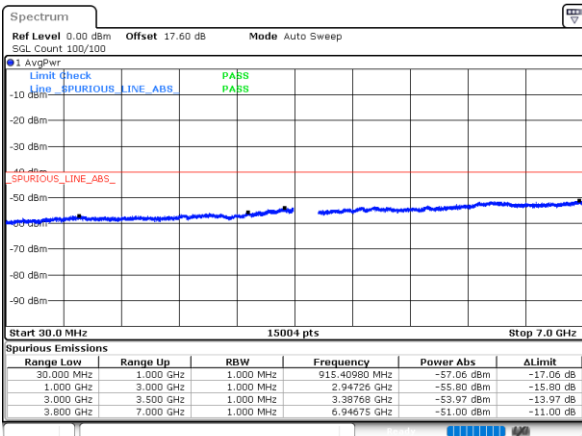


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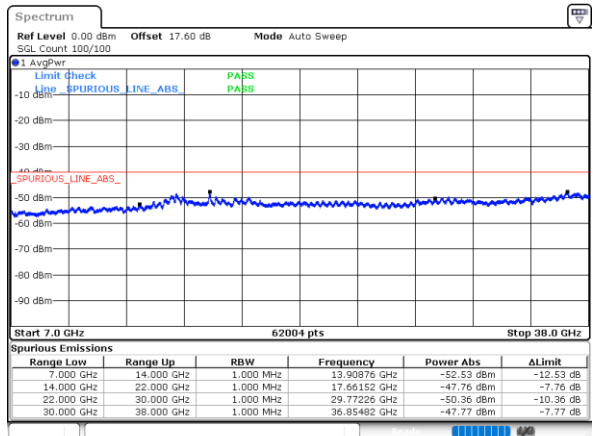


Date: 14.APR.2025 17:13:31

Middle Channel / QPSK

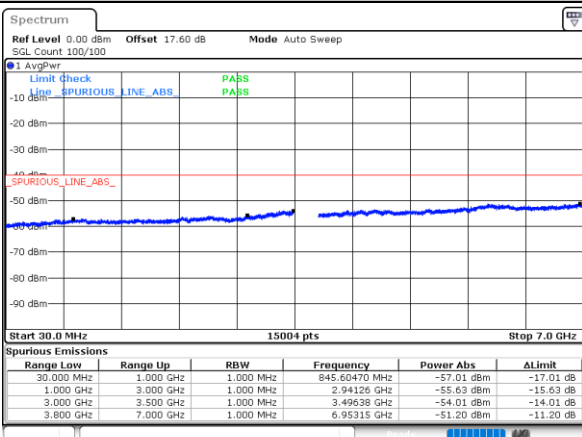


Date: 14.APR.2025 17:15:35

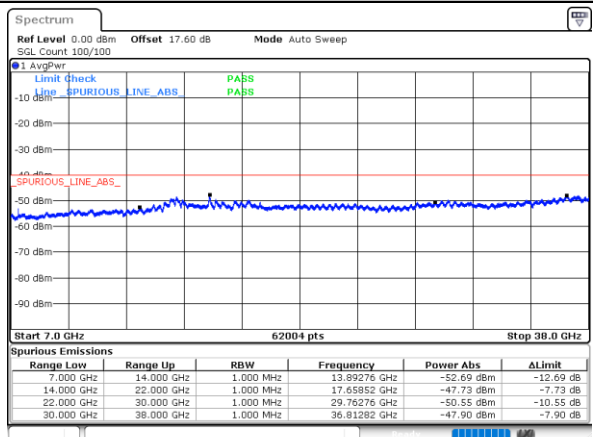


Date: 14.APR.2025 17:13:44

Highest Channel / QPSK



Date: 14.APR.2025 17:16:47

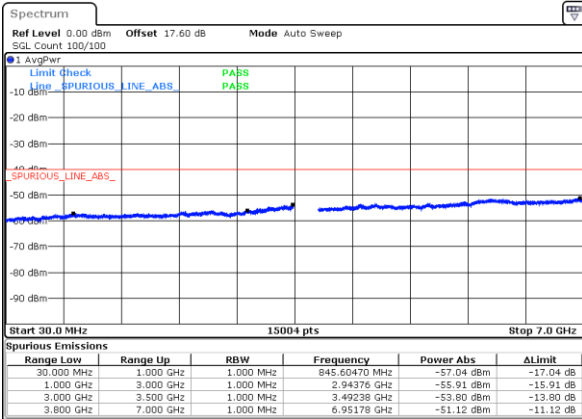


Date: 14.APR.2025 17:13:57

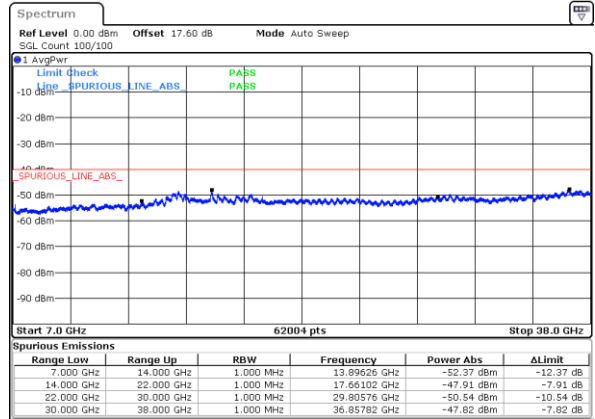


LTE Band 48 / 15MHz

Lowest Channel / QPSK

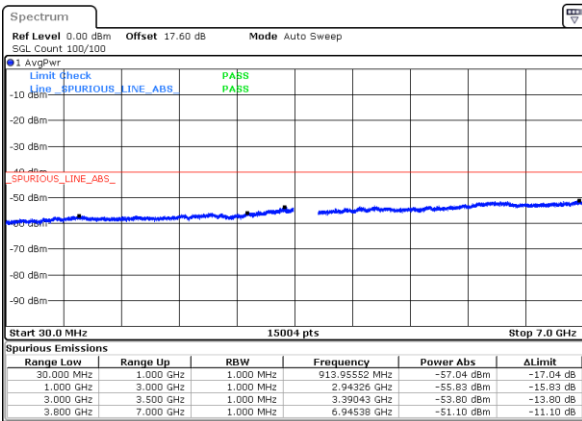


Date: 14.APR.2025 17:18:00

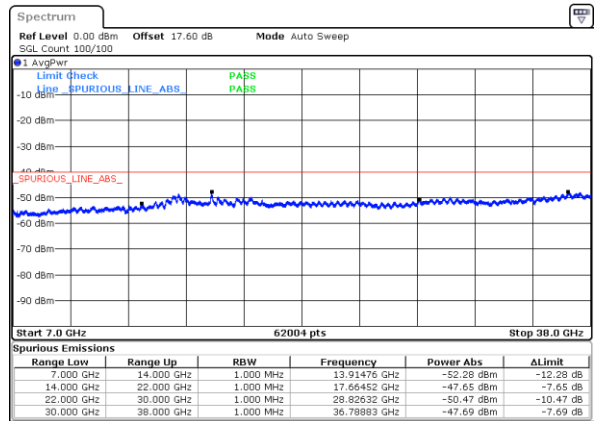


Date: 14.APR.2025 17:13:11

Middle Channel / QPSK

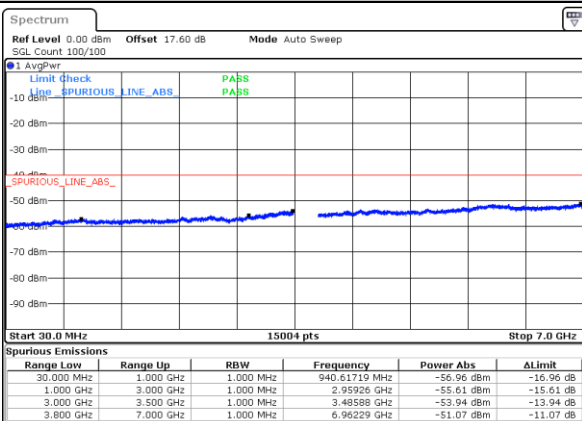


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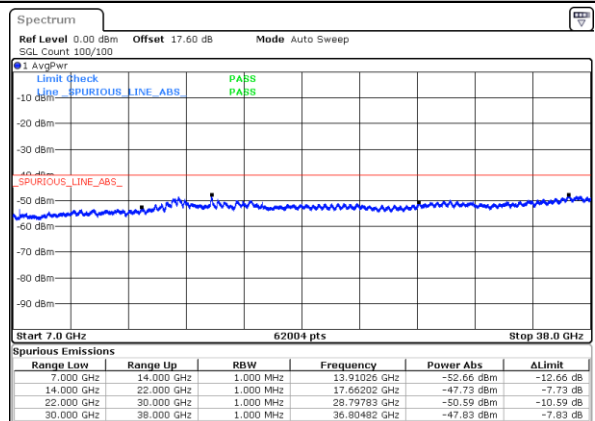


Date: 14.APR.2025 17:13:24

Highest Channel / QPSK



Date: 14.APR.2025 17:20:24

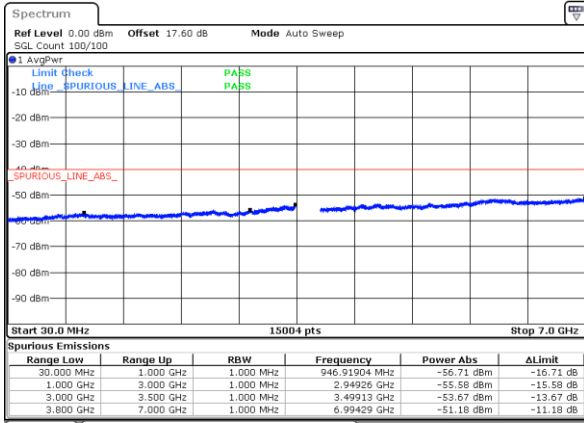


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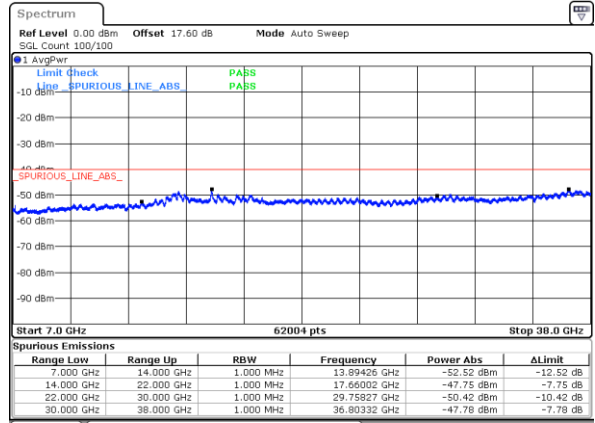


LTE Band 48 / 20MHz

Lowest Channel / QPSK

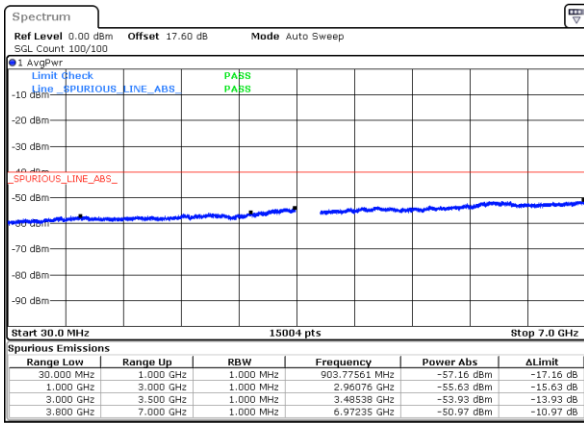


Date: 14.APR.2025 17:21:37

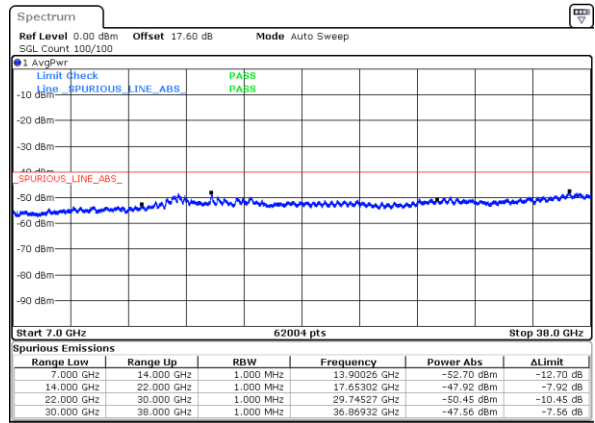


Date: 14.APR.2025 17:13:50

Middle Channel / QPSK

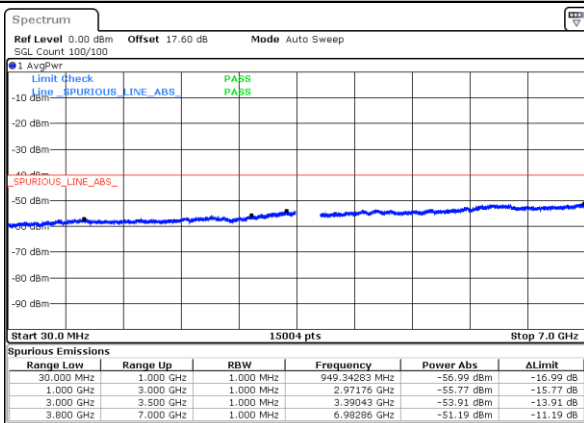


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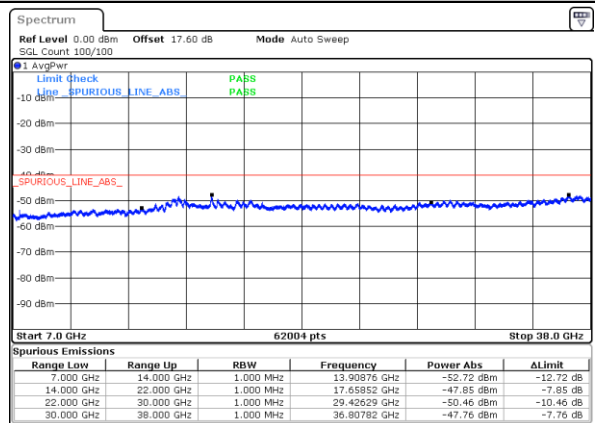


Date: 14.APR.2025 17:41:03

Highest Channel / QPSK



Date: 14.APR.2025 17:24:01



Date: 14.APR.2025 17:42:15

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	0.0014	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0018	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.4 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	L	7102	-48.01	RMS	36.70	-23.46	2.44	-95.23	31.54	-40.00	-8.01	V	0

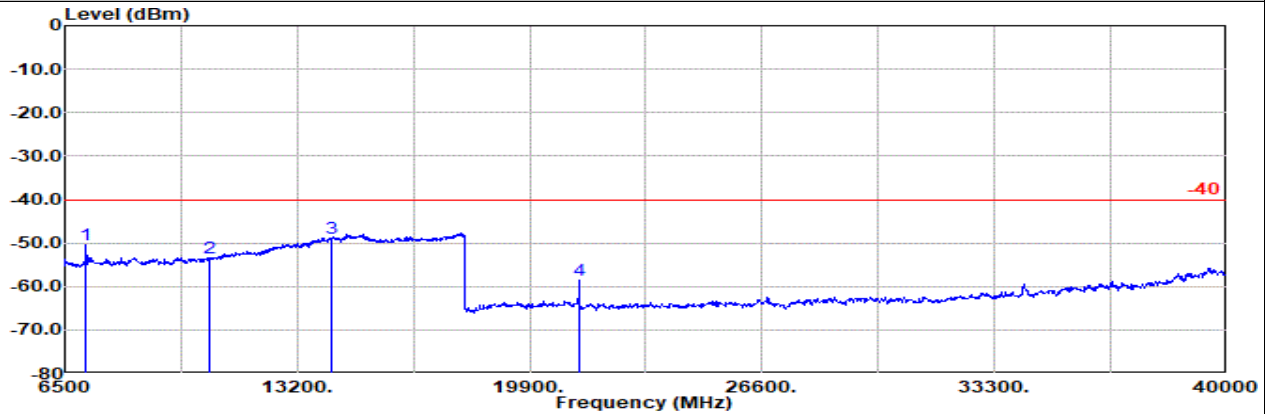


Ant. 0

Part 96 Mode 1

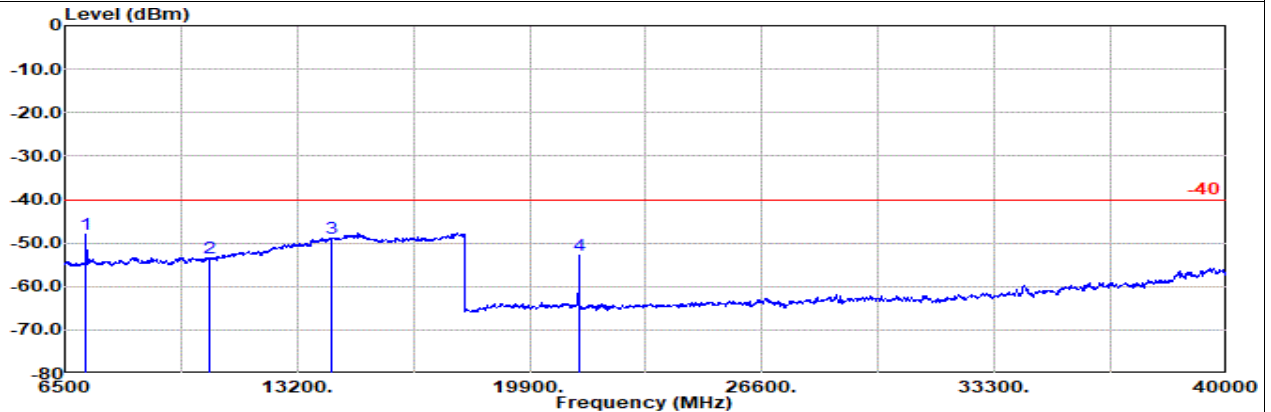
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Horizontal
: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7102.00	-50.39	RMS	36.70	-23.46	2.44	-95.23	29.16	-40.00	-10.39 Horizontal
2	10653.00	-53.46	RMS	37.50	-24.29	2.24	-95.23	26.32	-40.00	-13.46 Horizontal
3	14204.00	-49.00	RMS	40.89	-25.47	2.49	-95.23	28.32	-40.00	-9.00 Horizontal
4	21306.00	-58.61	RMS	38.18	-41.71	-9.54	-95.23	49.69	-40.00	-18.61 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Vertical
: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7102.00	-48.01	RMS	36.70	-23.46	2.44	-95.23	31.54	-40.00	-8.01 Vertical
2	10653.00	-53.51	RMS	37.50	-24.29	2.24	-95.23	26.27	-40.00	-13.51 Vertical
3	14204.00	-48.97	RMS	40.89	-25.47	2.49	-95.23	28.35	-40.00	-8.97 Vertical
4	21306.00	-52.80	RMS	38.18	-41.71	-9.54	-95.23	55.50	-40.00	-12.80 Vertical

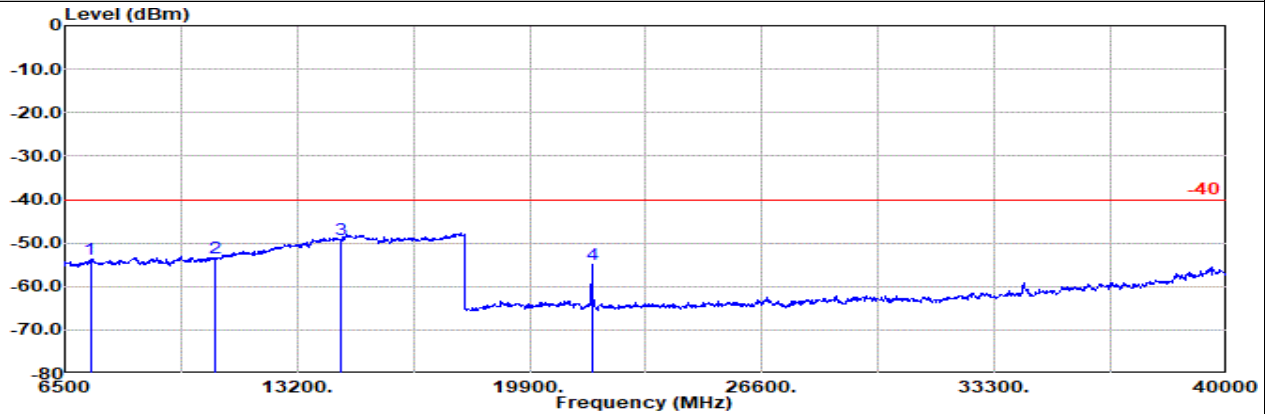


Ant. 0

Part 96 Mode 1

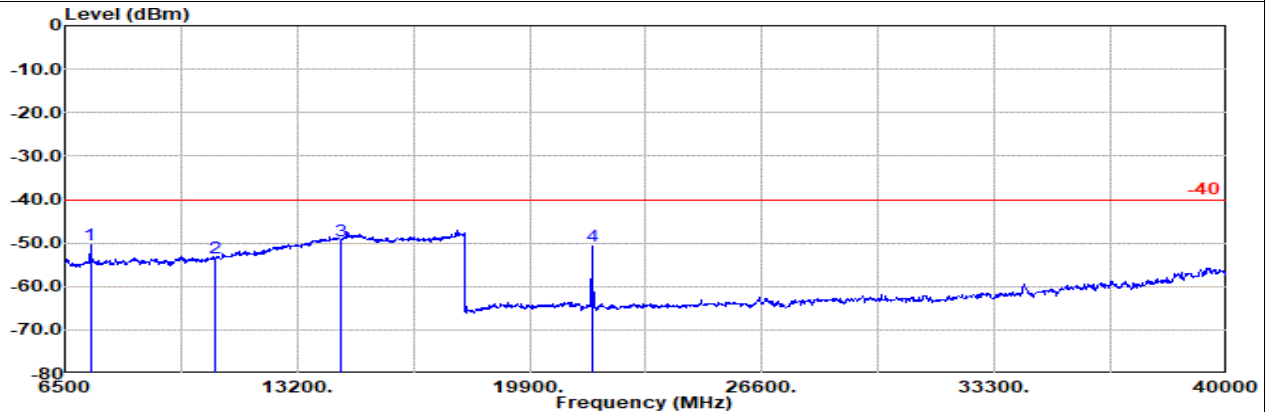
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF		Readin g	Limit	Margin		Pol
					dB/m	dB		dB	dB			dB	dB	
1	7232.00	-53.70	RMS		37.13	-23.47	2.44	-95.23	25.43	-40.00	-13.70	Horizontal		
2	10848.00	-53.47	RMS		37.60	-24.39	2.24	-95.23	26.31	-40.00	-13.47	Horizontal		
3	14464.00	-49.22	RMS		40.98	-25.77	2.49	-95.23	28.31	-40.00	-9.22	Horizontal		
4	21696.00	-55.08	RMS		38.11	-41.22	-9.54	-95.23	52.80	-40.00	-15.08	Horizontal		



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF		Readin g	Limit	Margin		Pol
					dB/m	dB		dB	dB			dB	dB	
1	7232.00	-50.54	RMS		37.13	-23.47	2.44	-95.23	28.59	-40.00	-10.54	Vertical		
2	10848.00	-53.41	RMS		37.60	-24.39	2.24	-95.23	26.37	-40.00	-13.41	Vertical		
3	14464.00	-49.52	RMS		40.98	-25.77	2.49	-95.23	28.01	-40.00	-9.52	Vertical		
4	21696.00	-50.65	RMS		38.11	-41.22	-9.54	-95.23	57.23	-40.00	-10.65	Vertical		

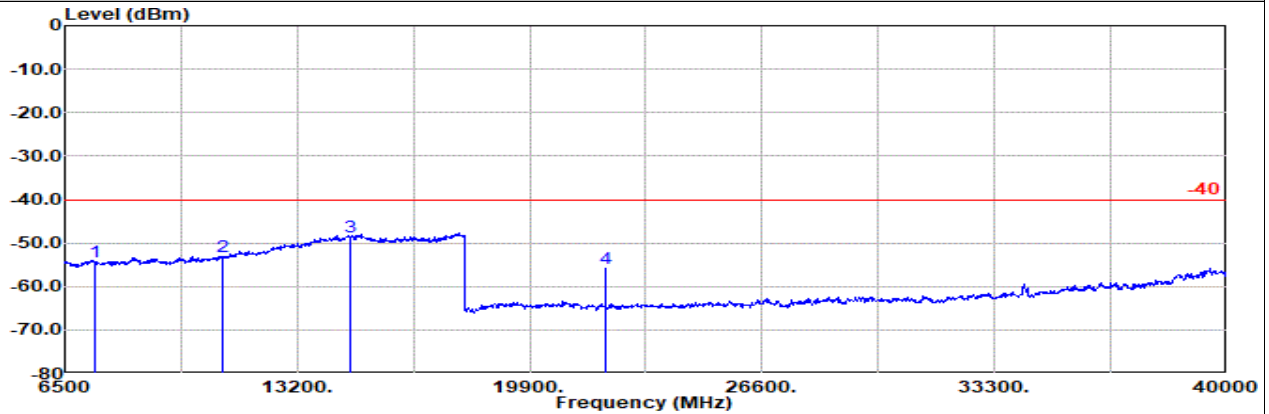


Ant. 0

Part 96 Mode 1

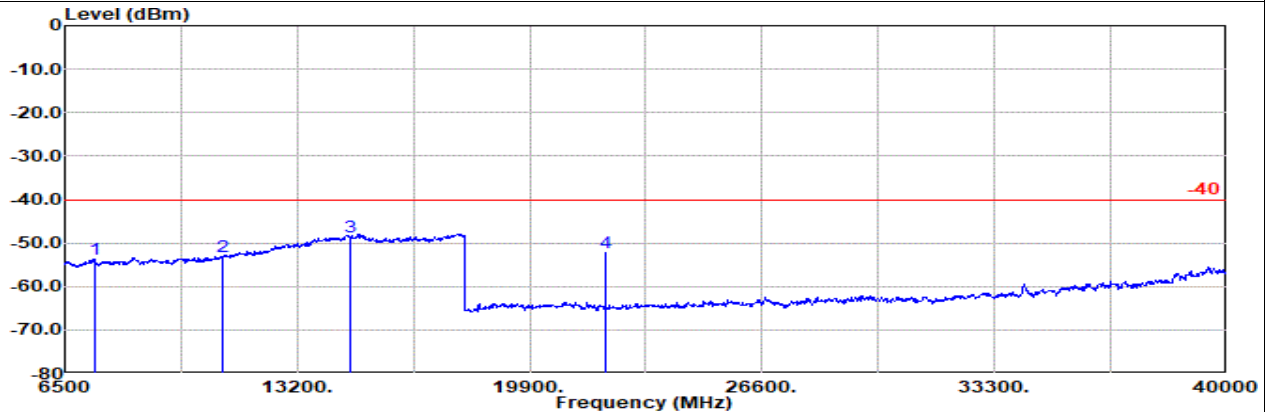
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq Level		Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		Factor	1			g	dBm		
				dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-54.31	RMS	37.28	-23.50	2.26	-95.23	24.88	-40.00	-14.31	Horizontal
2	11043.00	-53.15	RMS	37.97	-24.47	2.25	-95.23	26.33	-40.00	-13.15	Horizontal
3	14724.00	-48.63	RMS	41.55	-26.03	2.50	-95.23	28.58	-40.00	-8.63	Horizontal
4	22086.00	-55.87	RMS	38.23	-40.44	-9.54	-95.23	51.11	-40.00	-15.87	Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1224_240624 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	l			g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-53.72	RMS	37.28	-23.50	2.26	-95.23	25.47	-40.00	-13.72	Vertical
2	11043.00	-53.20	RMS	37.97	-24.47	2.25	-95.23	26.28	-40.00	-13.20	Vertical
3	14724.00	-48.73	RMS	41.55	-26.03	2.50	-95.23	28.48	-40.00	-8.73	Vertical
4	22086.00	-52.12	RMS	38.23	-40.44	-9.54	-95.23	54.86	-40.00	-12.12	Vertical

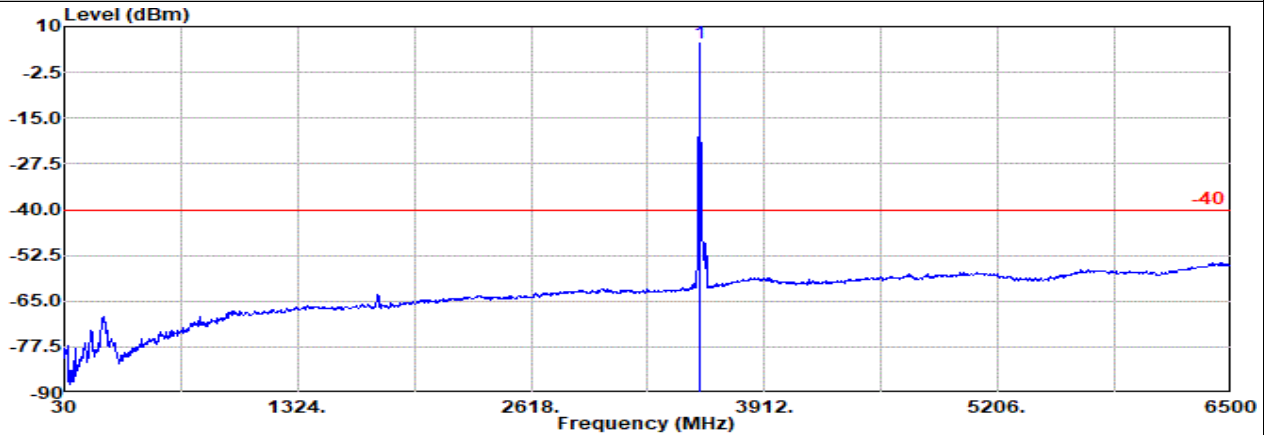


Ant. 0

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L



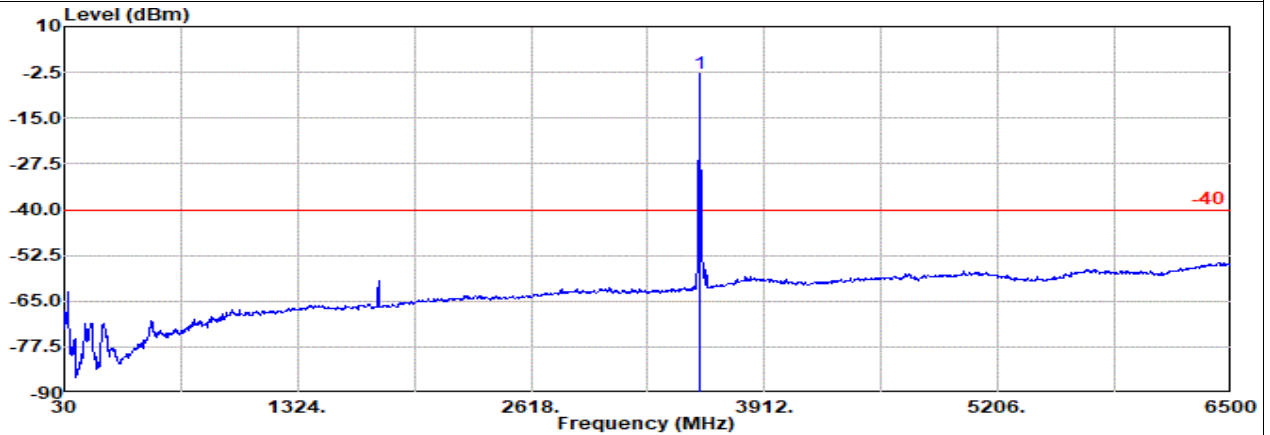
Site : 03CH23-HY

Condition: -40 3m DRH18-E_LE2C05A18EN_240620 Horizontal

: LTE Band 48 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						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3552.00	5.33	RMS	29.40	-24.82	3.37	-95.23	92.61	-40.00	45.33	Horizontal



Site : 03CH23-HY

Condition: -40 3m DRH18-E_LE2C05A18EN_240620 Vertical

: LTE Band 48 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						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3552.00	-3.02	RMS	29.40	-24.82	3.37	-95.23	84.26	-40.00	36.98	Vertical

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