



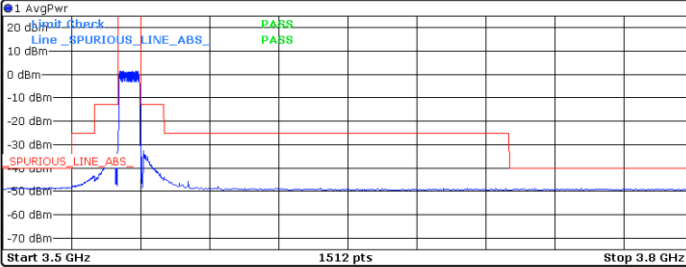
LTE Band 48 / 10MHz

256QAM

Lowest Channel / FullIRB

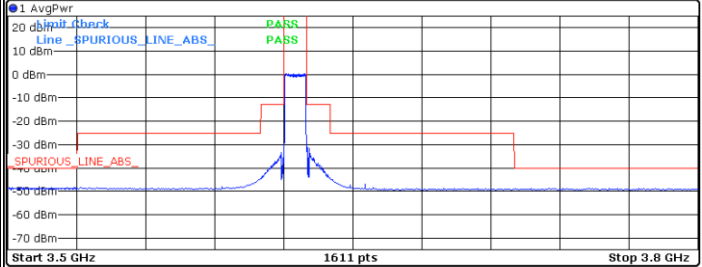
Middle Channel / FullIRB

Spectrum

Ref Level 25.00 dBm Offset 16.80 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52599 GHz	-48.23 dBm	-8.23 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53985 GHz	-43.54 dBm	-18.54 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54887 GHz	-34.15 dBm	-21.15 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54997 GHz	-32.89 dBm	-19.89 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55103 GHz	1.49 dBm	-28.51 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56001 GHz	-30.77 dBm	-17.77 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56122 GHz	-32.59 dBm	-19.59 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57025 GHz	-43.75 dBm	-18.75 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.73129 GHz	-48.94 dBm	-8.94 dB

Spectrum

Ref Level 25.00 dBm Offset 16.80 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51923 GHz	-48.48 dBm	-8.48 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-44.53 dBm	-19.53 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61896 GHz	-33.31 dBm	-20.31 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61991 GHz	-32.11 dBm	-19.11 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62904 GHz	0.35 dBm	-29.65 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63001 GHz	-30.36 dBm	-17.36 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63113 GHz	-31.72 dBm	-18.72 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-44.72 dBm	-19.72 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72733 GHz	-48.72 dBm	-8.72 dB

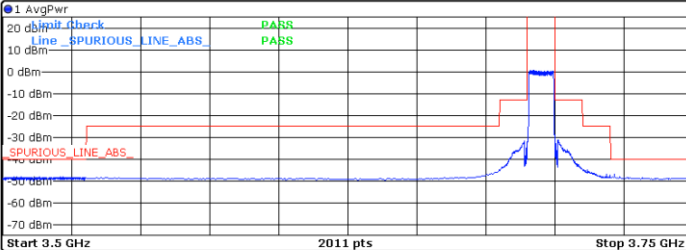
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Date: 27.JUN.2024 09:57:50

Highest Channel / FullIRB

N/A

Spectrum

Ref Level 25.00 dBm Offset 16.80 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52193 GHz	-48.24 dBm	-8.24 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.53735 GHz	-48.63 dBm	-23.63 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67980 GHz	-45.16 dBm	-20.16 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68896 GHz	-31.71 dBm	-18.71 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.68999 GHz	-32.02 dBm	-19.02 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69103 GHz	0.62 dBm	-29.38 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70000 GHz	-32.32 dBm	-19.32 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-31.23 dBm	-18.23 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71035 GHz	-44.85 dBm	-19.85 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72134 GHz	-47.08 dBm	-7.08 dB

Date: 27.JUN.2024 09:59:28

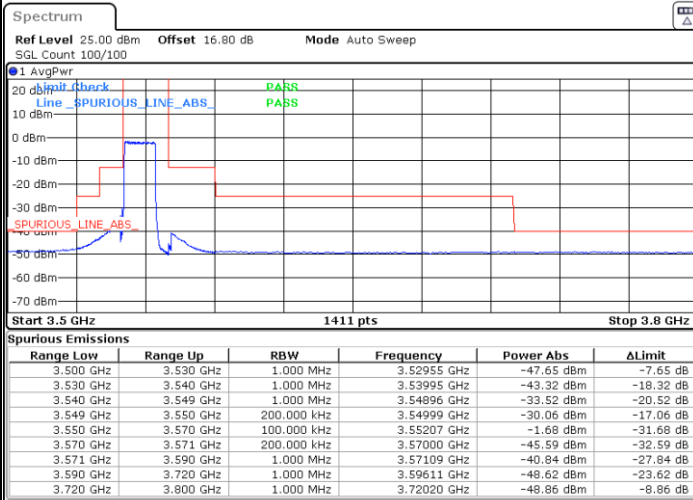


LTE Band 48 / 15MHz

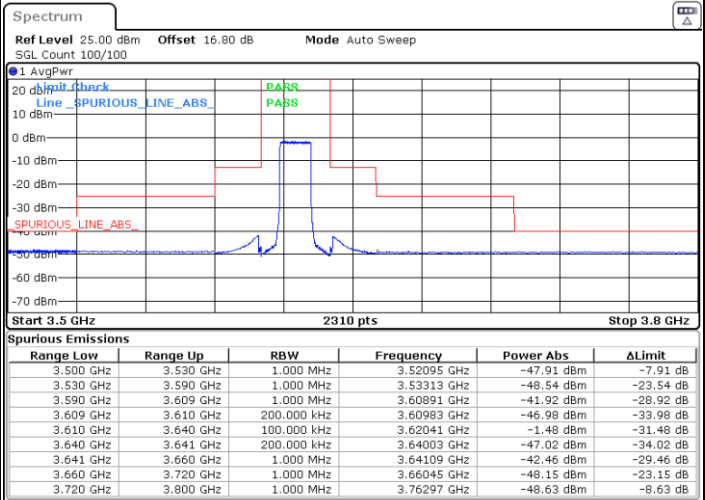
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



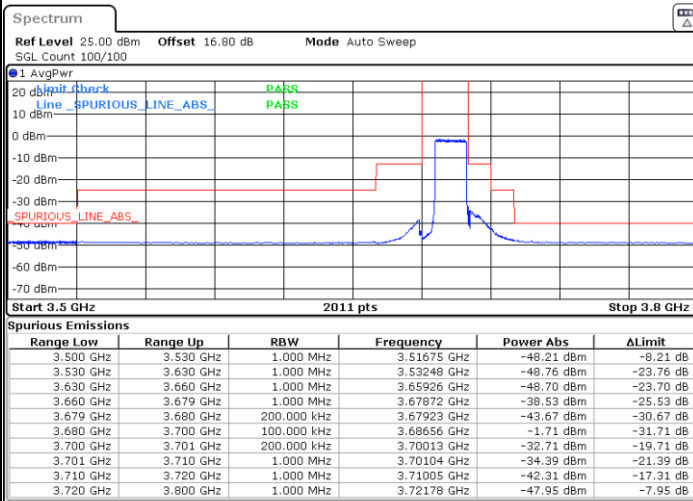
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Date: 27.JUN.2024 10:03:49

Highest Channel / FullIRB

N/A



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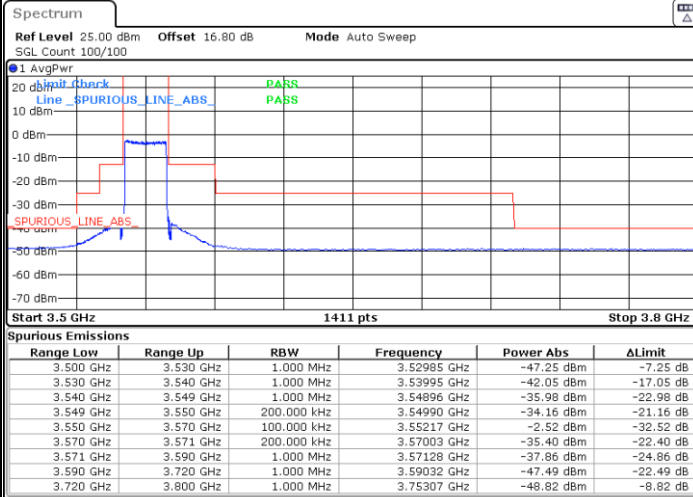


LTE Band 48 / 20MHz

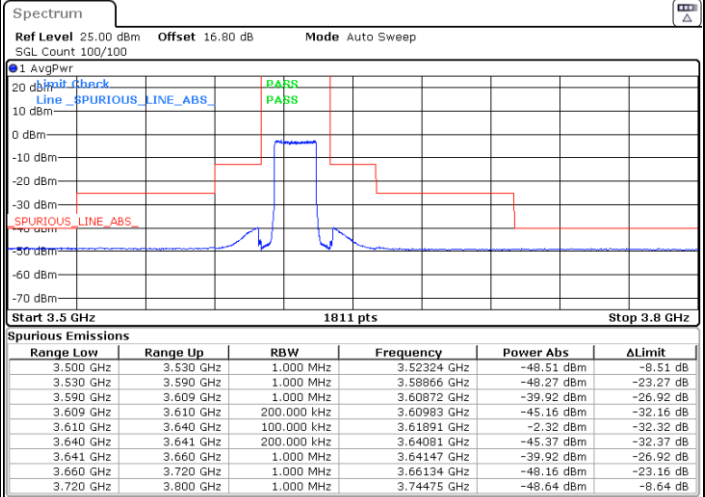
256QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



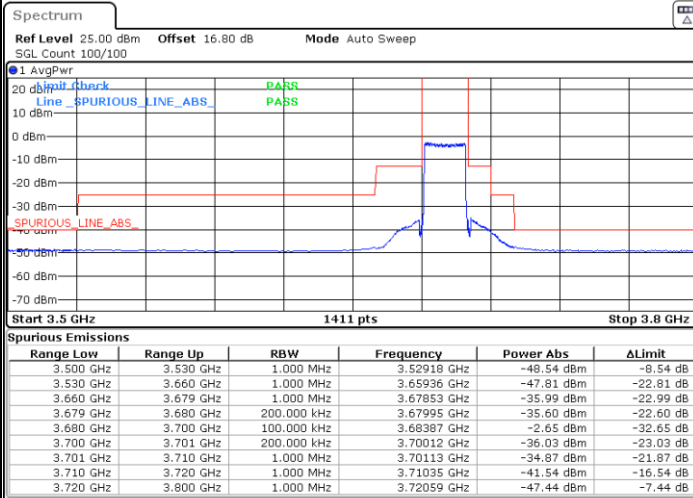
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Date: 27.JUN.2024 10:08:01

Highest Channel / FullIRB

N/A



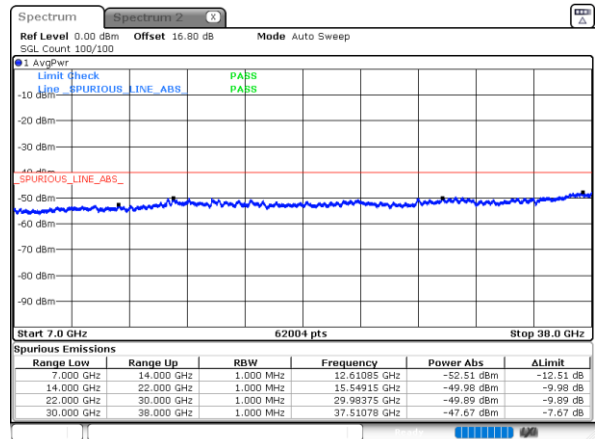
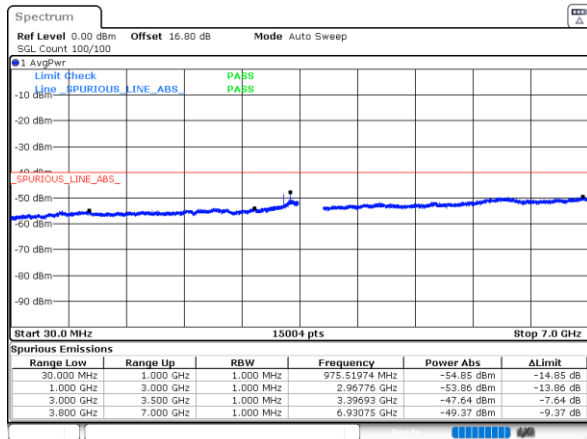
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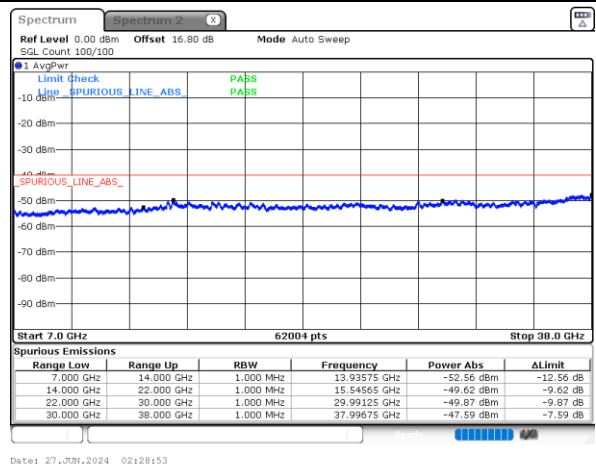
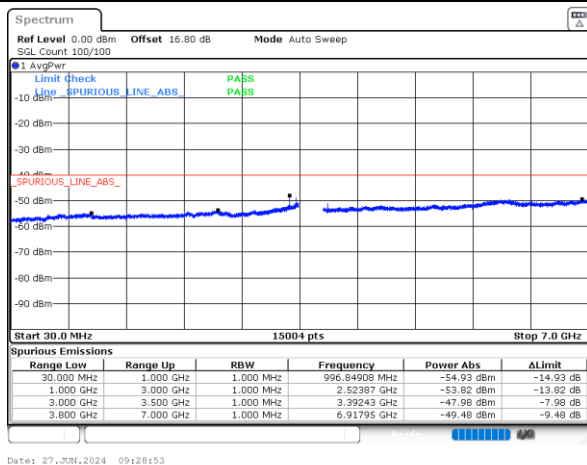
Conducted Spurious Emission

LTE Band 48 / 5MHz

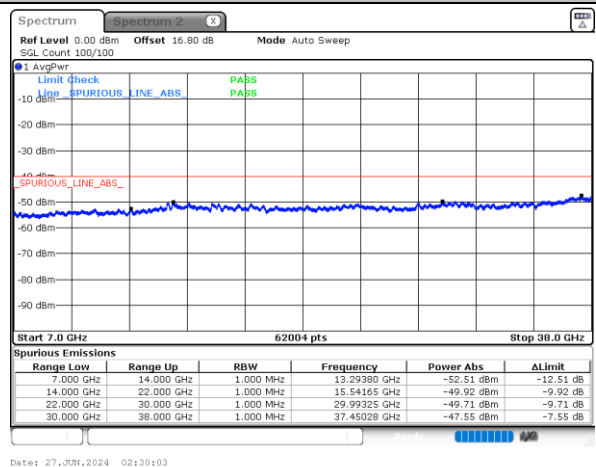
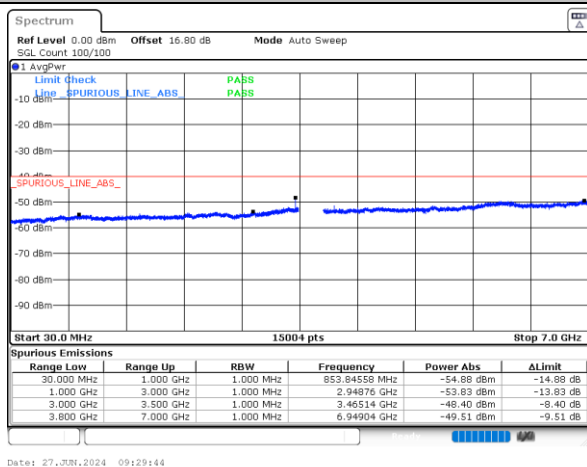
Lowest Channel / QPSK



Middle Channel / QPSK



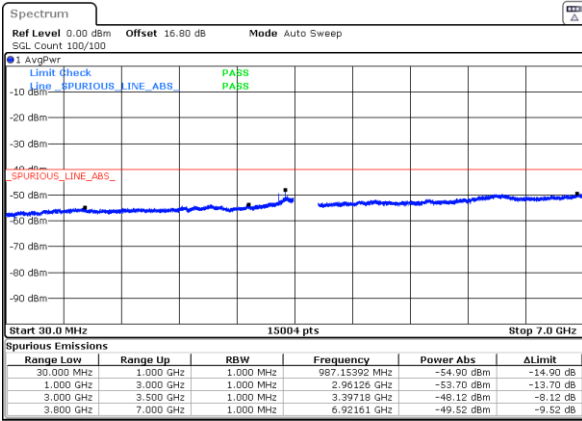
Highest Channel / QPSK



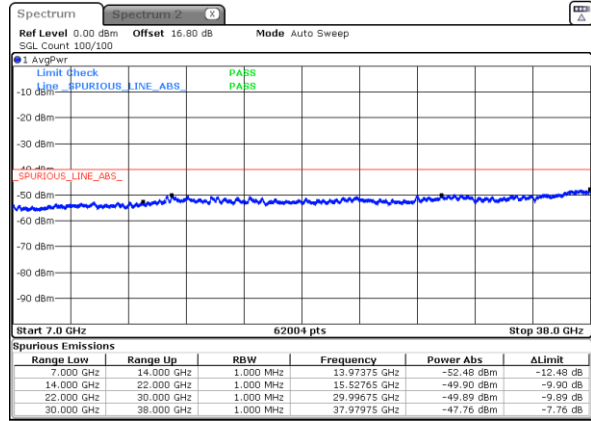


LTE Band 48 / 10MHz

Lowest Channel / QPSK

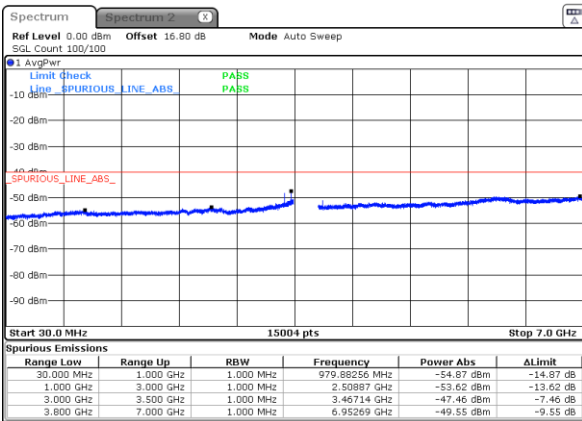


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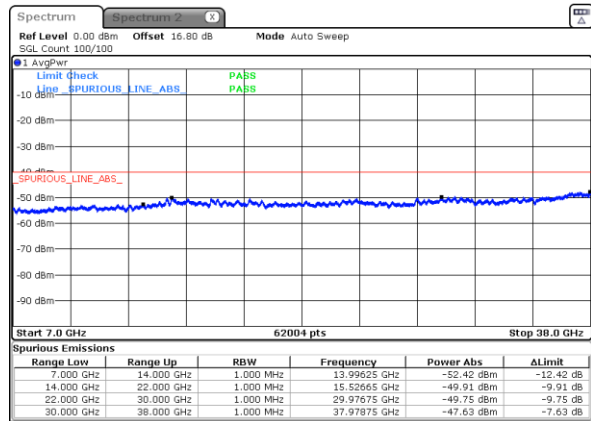


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Middle Channel / QPSK

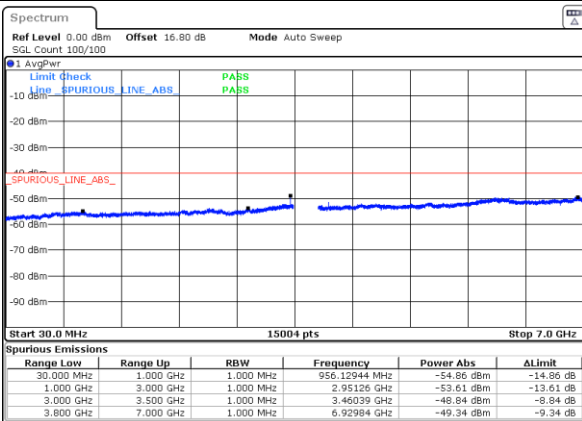


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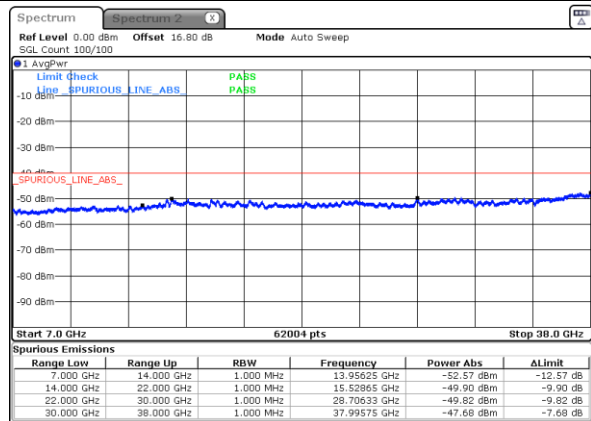


Date: 27 JUN 2024 02:13:26

Highest Channel / QPSK



Date: 27 JUN 2024 09:32:20

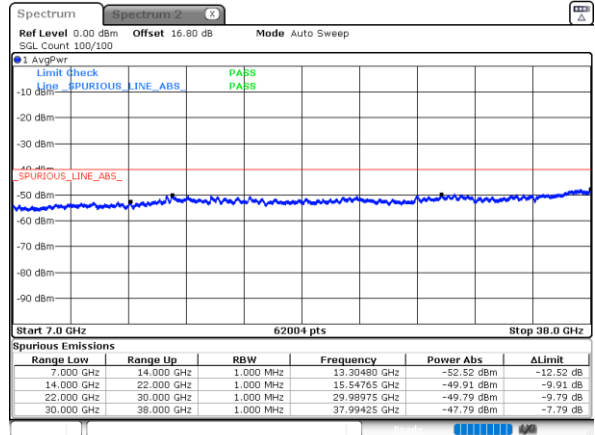
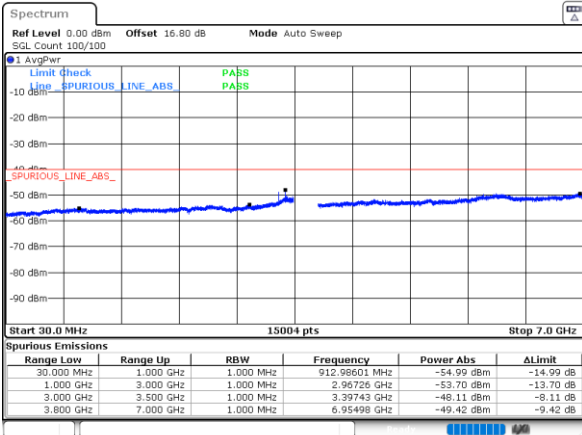


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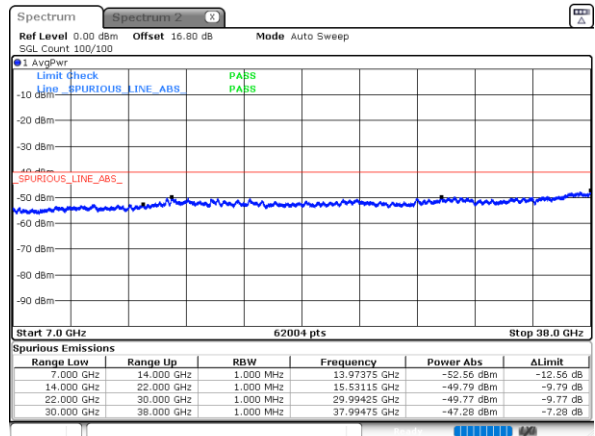
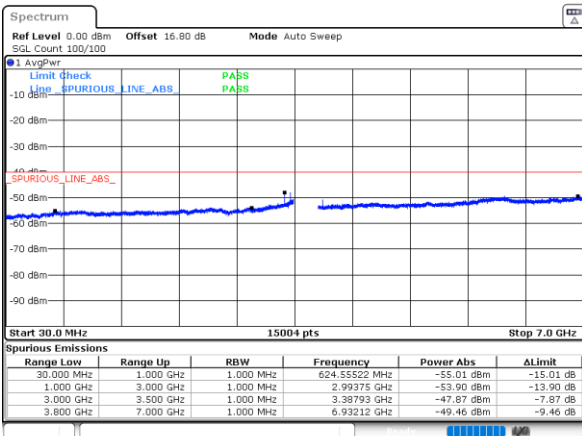


LTE Band 48 / 15MHz

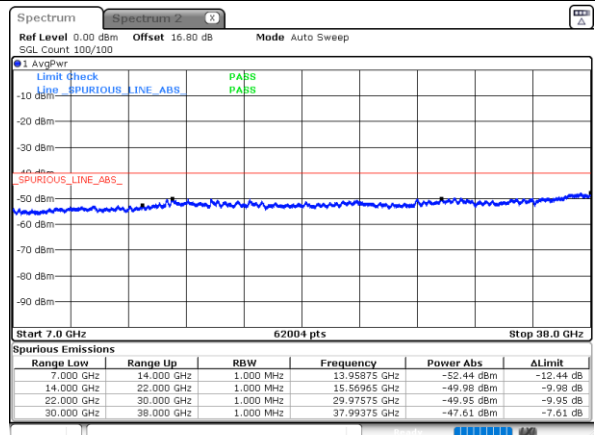
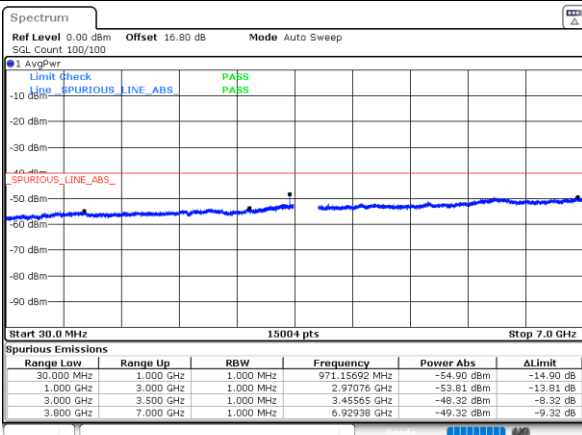
Lowest Channel / QPSK



Middle Channel / QPSK



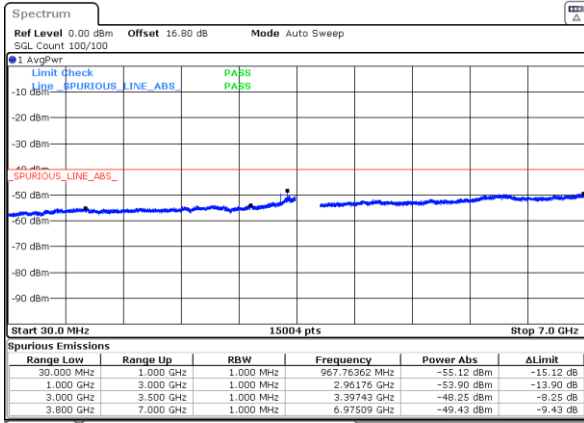
Highest Channel / QPSK



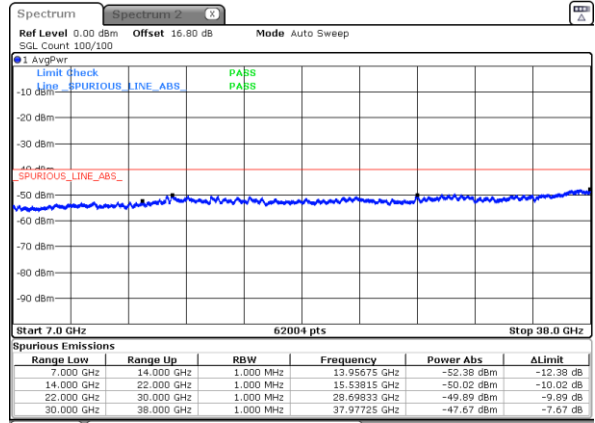


LTE Band 48 / 20MHz

Lowest Channel / QPSK

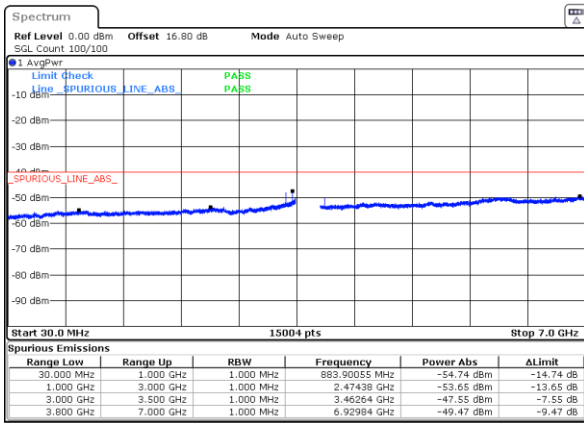


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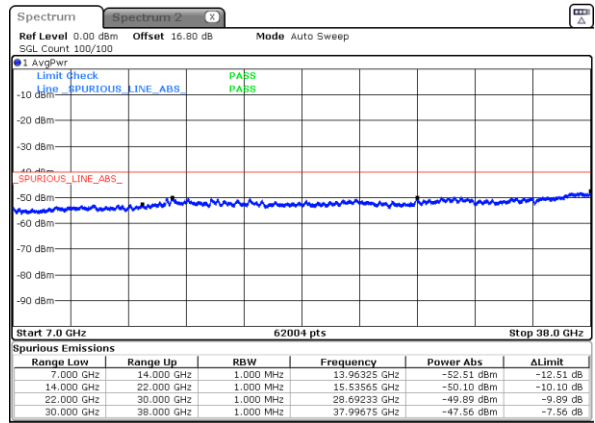


Date: 27 JUN 2024 02:13:23

Middle Channel / QPSK

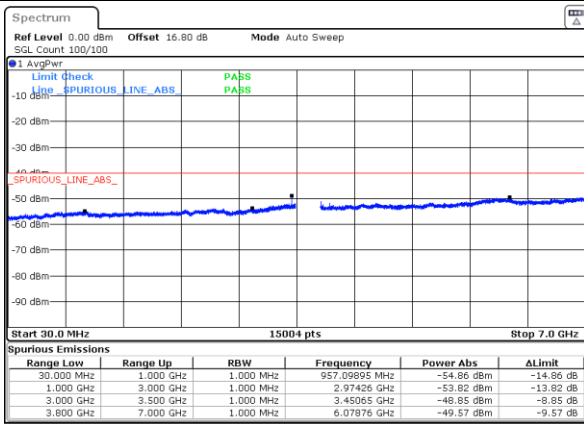


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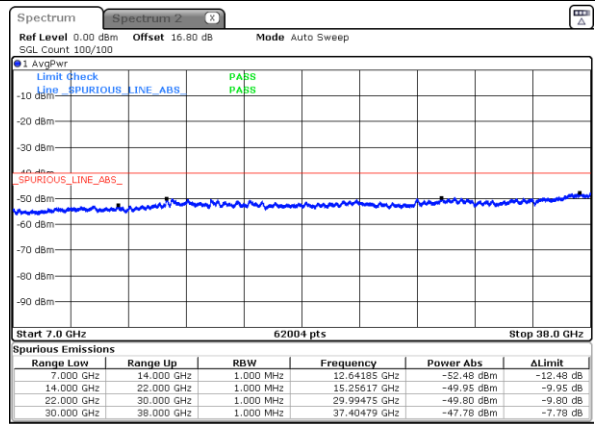


Date: 27 JUN 2024 02:13:33

Highest Channel / QPSK



Date: 27 JUN 2024 09:37:32



Date: 27 JUN 2024 02:14:48

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	0.0007	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 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)	Amp\Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 96	LTE B48	L	14204	-48.90	RMS	40.79	-25.32	2.52	-95.23	28.34	-40.00	-8.90	H	TX0
2	Part 96	LTE B48	L	14204	-48.93	RMS	40.79	-25.32	2.52	-95.23	28.31	-40.00	-8.93	V	TX1

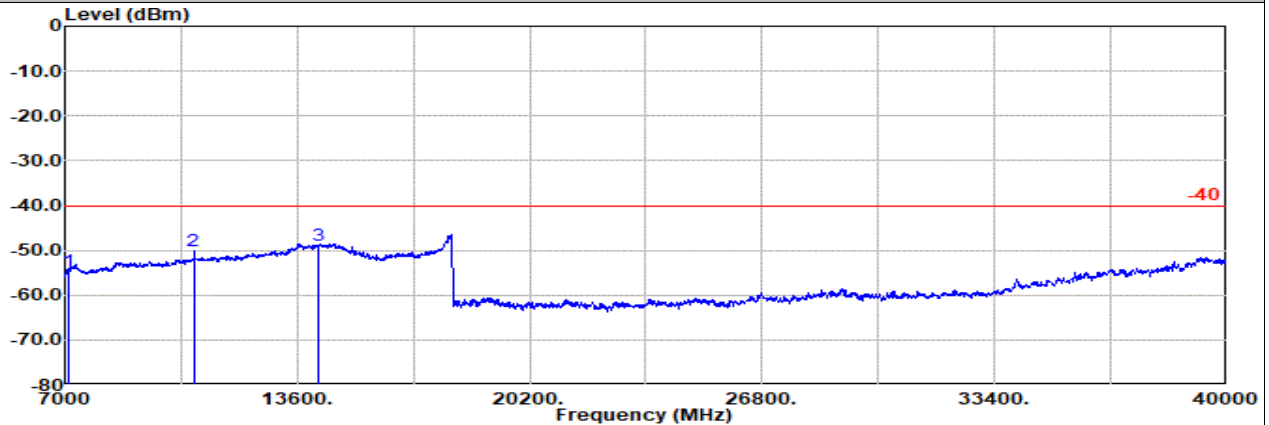


TX0

Part 96 Mode 1

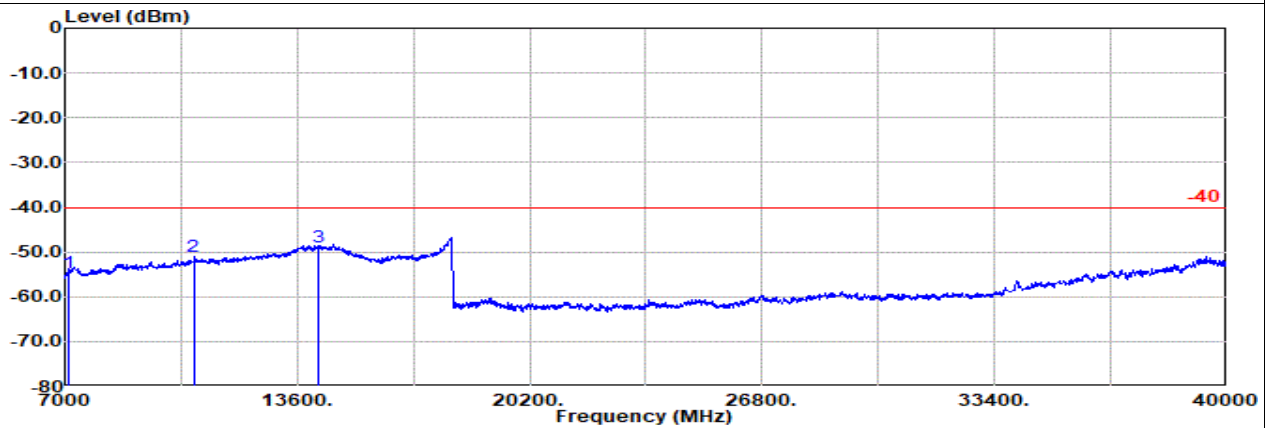
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Horizontal
: LTE Band 48 20M Ch55340 1RB0 QPSK

	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	7102.00	-54.65	RMS	36.41	-23.14	2.49	-95.23	24.82	-40.00	-14.65 Horizontal
2	10653.00	-50.22	RMS	39.09	-24.08	2.15	-95.23	27.85	-40.00	-10.22 Horizontal
3	14204.00	-48.90	RMS	40.79	-25.32	2.52	-95.23	28.34	-40.00	-8.90 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Vertical
: LTE Band 48 20M Ch55340 1RB0 QPSK

	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	7102.00	-54.55	RMS	36.41	-23.14	2.49	-95.23	24.92	-40.00	-14.55 Vertical
2	10653.00	-50.98	RMS	39.09	-24.08	2.15	-95.23	27.09	-40.00	-10.98 Vertical
3	14204.00	-48.92	RMS	40.79	-25.32	2.52	-95.23	28.32	-40.00	-8.92 Vertical

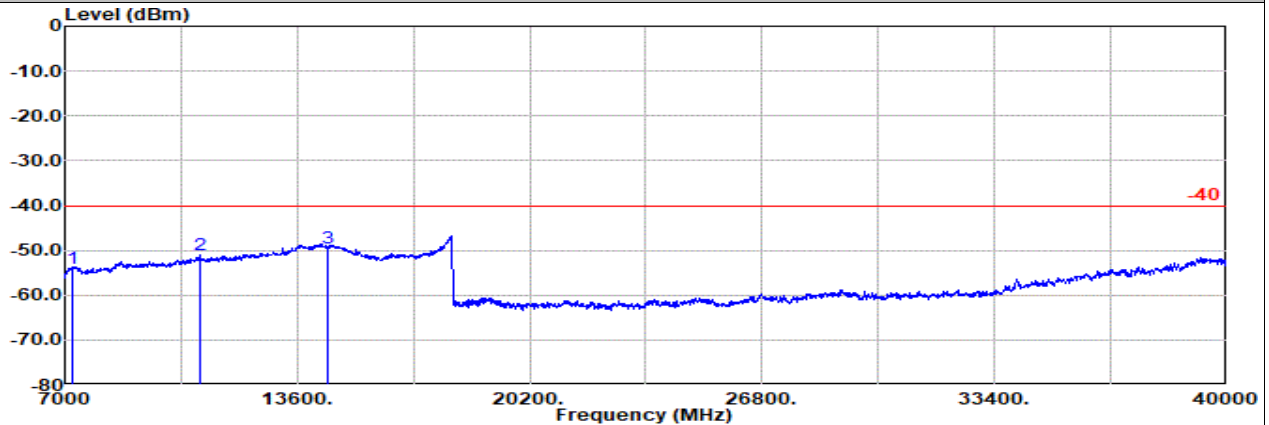


TX0

Part 96 Mode 1

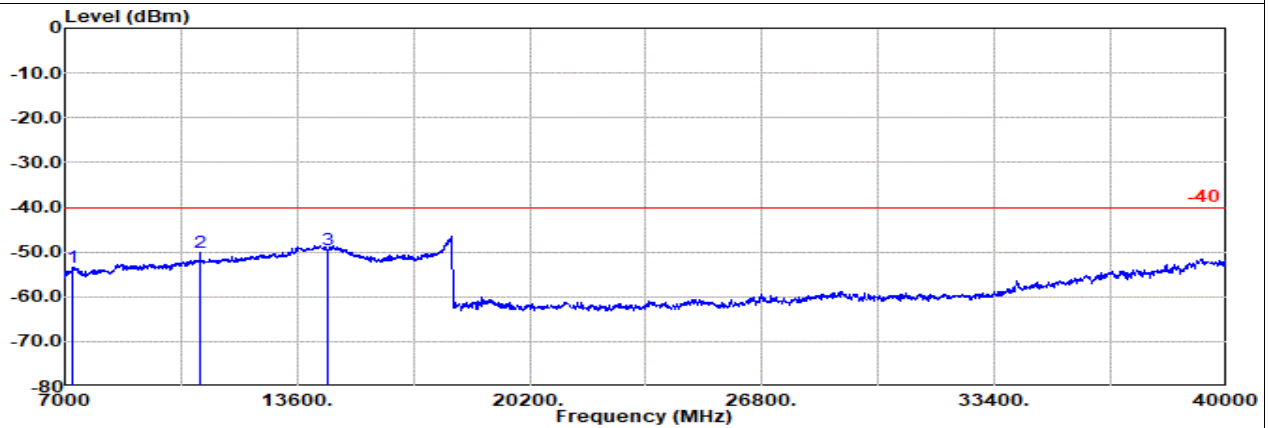
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-53.95	RMS	37.06	-23.05	2.50	-95.23	24.77	-40.00	-13.95 Horizontal
2	10848.00	-50.91	RMS	39.00	-24.16	2.16	-95.23	27.32	-40.00	-10.91 Horizontal
3	14464.00	-49.36	RMS	40.53	-25.53	2.57	-95.23	28.30	-40.00	-9.36 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-53.50	RMS	37.06	-23.05	2.50	-95.23	25.22	-40.00	-13.50 Vertical
2	10848.00	-50.13	RMS	39.00	-24.16	2.16	-95.23	28.10	-40.00	-10.13 Vertical
3	14464.00	-49.45	RMS	40.53	-25.53	2.57	-95.23	28.21	-40.00	-9.45 Vertical

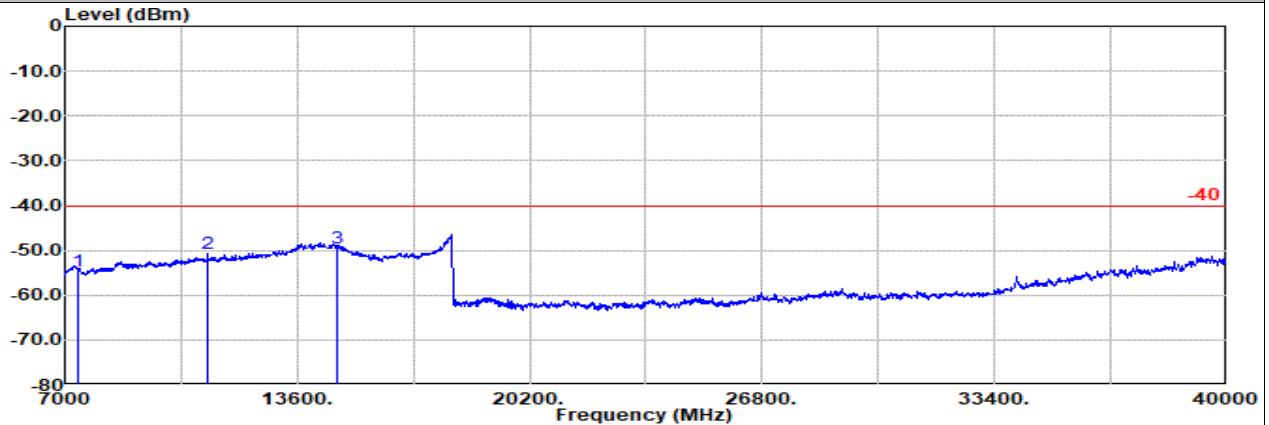


TX0

Part 96 Mode 1

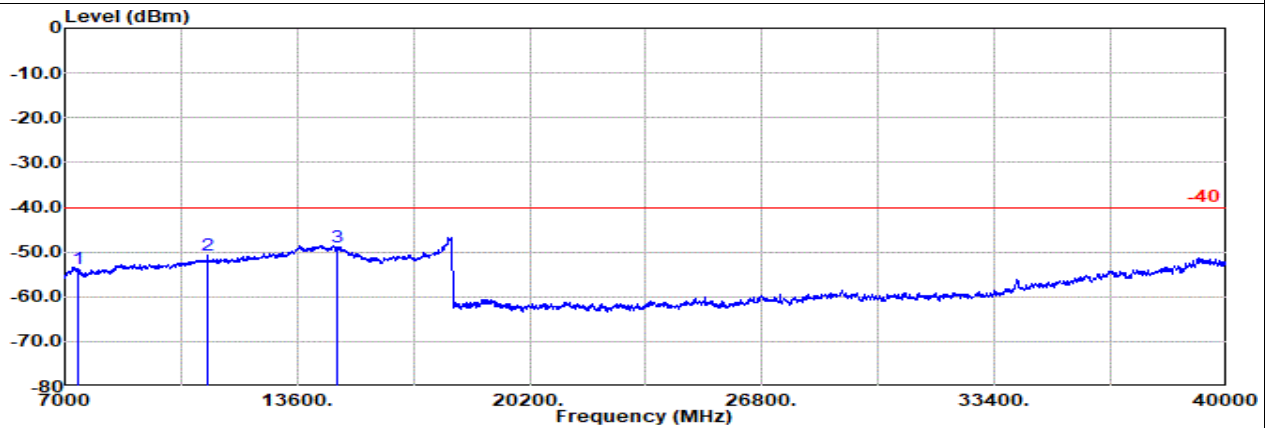
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit g	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7362.00	-54.54	RMS	36.85	-22.84	2.36	-95.23	24.32	-40.00	-14.54 Horizontal
2	11043.00	-50.78	RMS	38.73	-24.21	2.17	-95.23	27.76	-40.00	-10.78 Horizontal
3	14724.00	-49.52	RMS	40.35	-25.76	2.62	-95.23	28.50	-40.00	-9.52 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit g	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	7362.00	-53.76	RMS	36.85	-22.84	2.36	-95.23	25.10	-40.00	-13.76 Vertical
2	11043.00	-50.59	RMS	38.73	-24.21	2.17	-95.23	27.95	-40.00	-10.59 Vertical
3	14724.00	-49.00	RMS	40.35	-25.76	2.62	-95.23	29.02	-40.00	-9.00 Vertical

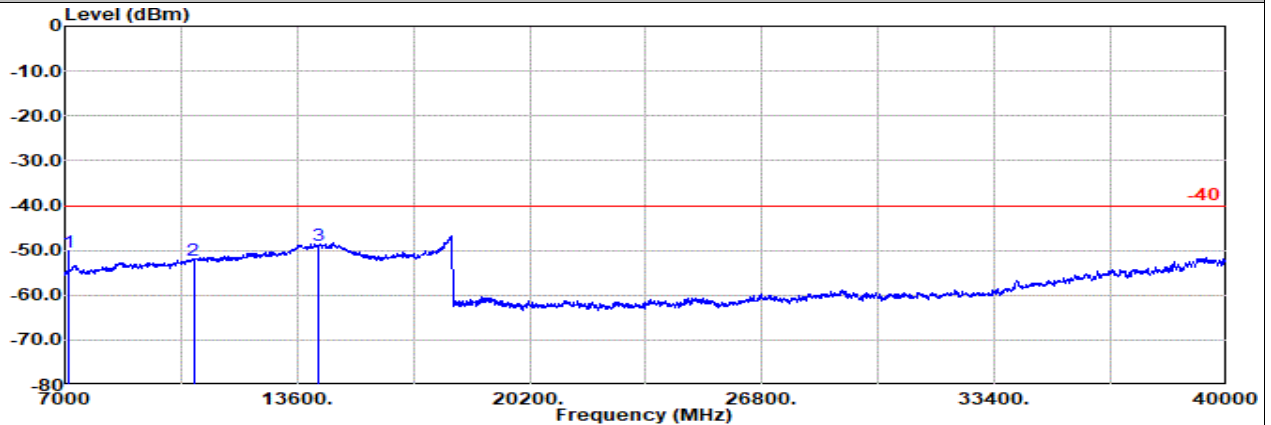


TX1

Part 96 Mode 2

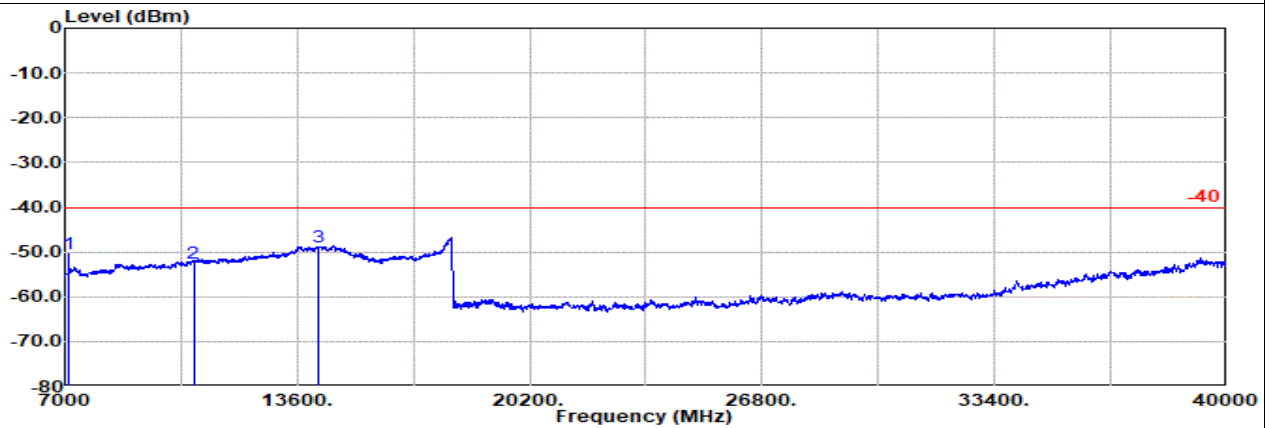
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 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
1	7102.00	-50.29	RMS		36.41	-23.14	2.49	-95.23	29.18	-40.00
2	10653.00	-52.36	RMS		39.09	-24.08	2.15	-95.23	25.71	-40.00
3	14204.00	-48.97	RMS		40.79	-25.32	2.52	-95.23	28.27	-40.00



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 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
1	7102.00	-50.29	RMS		36.41	-23.14	2.49	-95.23	29.18	-40.00
2	10653.00	-52.42	RMS		39.09	-24.08	2.15	-95.23	25.65	-40.00
3	14204.00	-48.93	RMS		40.79	-25.32	2.52	-95.23	28.31	-40.00

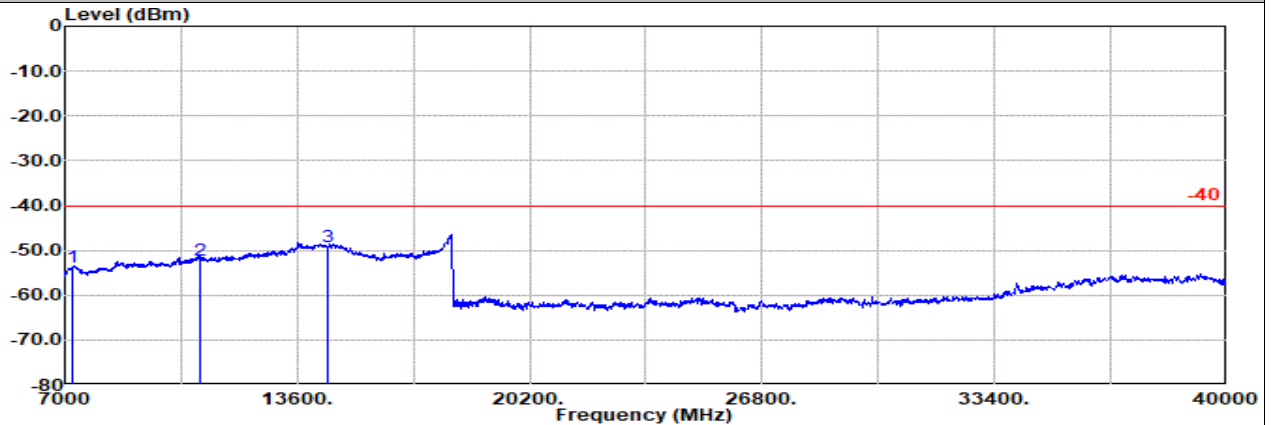


TX1

Part 96 Mode 2

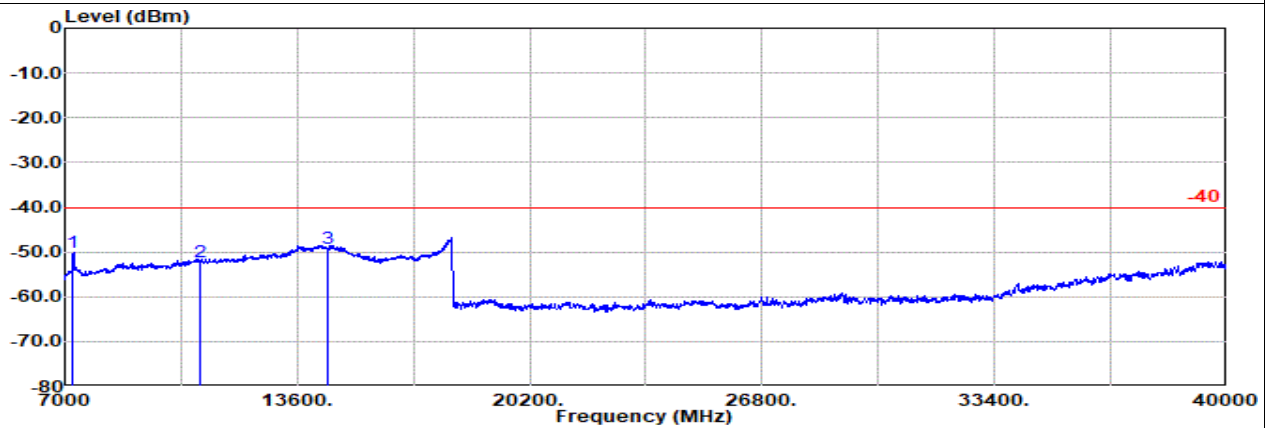
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-53.73	RMS	37.06	-23.05	2.50	-95.23	24.99	-40.00	-13.73 Horizontal
2	10848.00	-52.14	RMS	39.00	-24.16	2.16	-95.23	26.09	-40.00	-12.14 Horizontal
3	14464.00	-49.12	RMS	40.53	-25.53	2.57	-95.23	28.54	-40.00	-9.12 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	7232.00	-50.05	RMS	37.06	-23.05	2.50	-95.23	28.67	-40.00	-10.05 Vertical
2	10848.00	-52.18	RMS	39.00	-24.16	2.16	-95.23	26.05	-40.00	-12.18 Vertical
3	14464.00	-49.21	RMS	40.53	-25.53	2.57	-95.23	28.45	-40.00	-9.21 Vertical

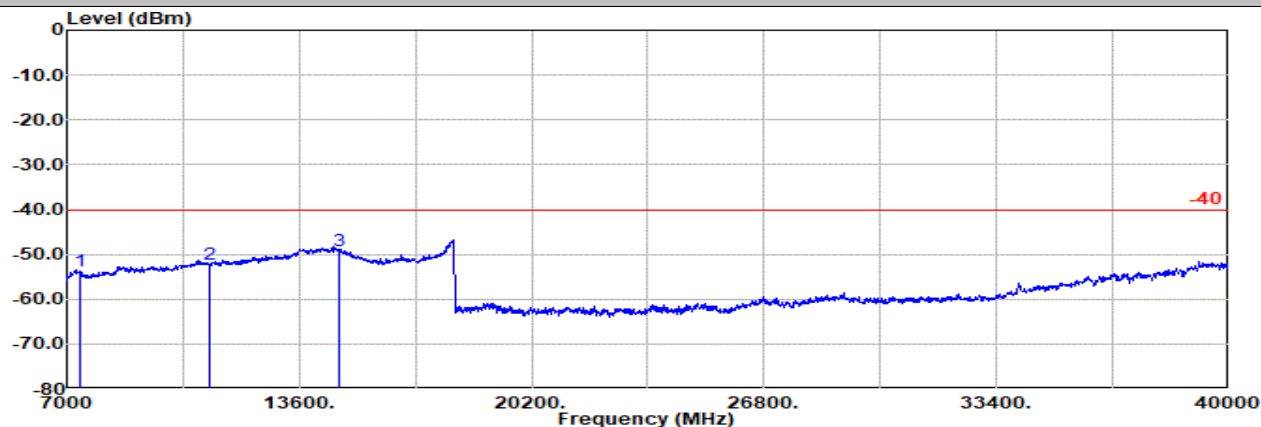


TX1

Part 96 Mode 2

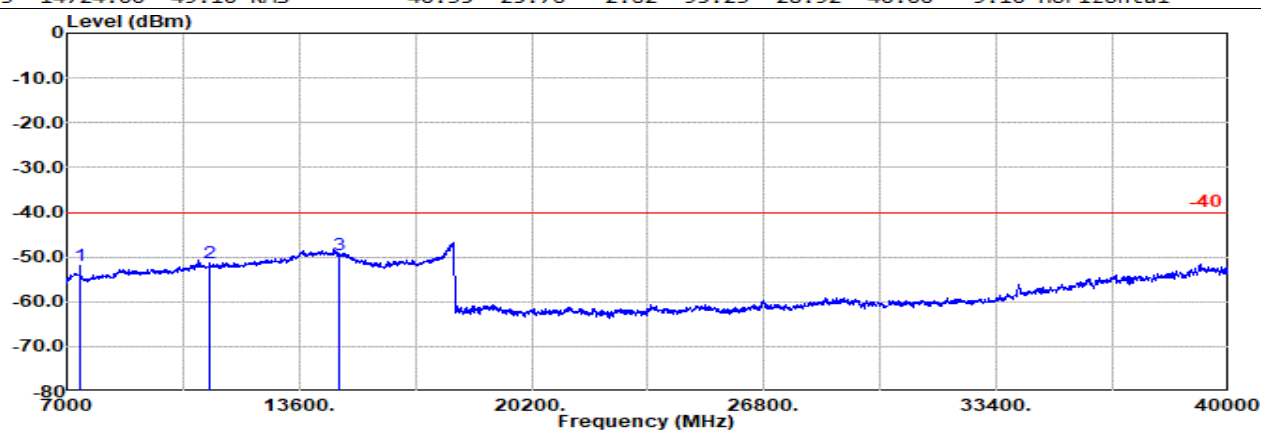
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	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	7362.00	-53.65	RMS	36.85	-22.84	2.36	-95.23	25.21	-40.00	-13.65 Horizontal
2	11043.00	-52.16	RMS	38.73	-24.21	2.17	-95.23	26.38	-40.00	-12.16 Horizontal
3	14724.00	-49.10	RMS	40.35	-25.76	2.62	-95.23	28.92	-40.00	-9.10 Horizontal



Site : 03CH23-HY
Condition: -40 1m SHF_1223_230710 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

	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	7362.00	-51.94	RMS	36.85	-22.84	2.36	-95.23	26.92	-40.00	-11.94 Vertical
2	11043.00	-51.44	RMS	38.73	-24.21	2.17	-95.23	27.10	-40.00	-11.44 Vertical
3	14724.00	-49.58	RMS	40.35	-25.76	2.62	-95.23	28.44	-40.00	-9.58 Vertical

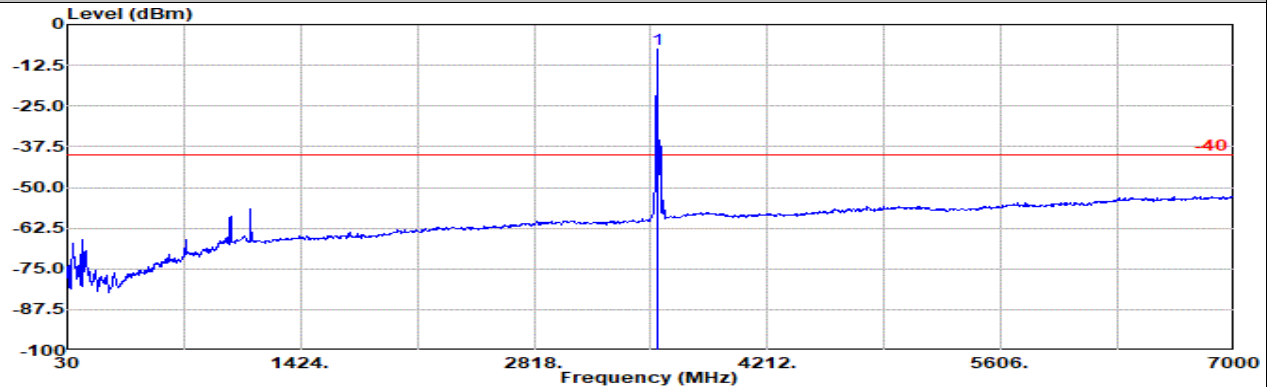


TX0

Part 96 Mode 1

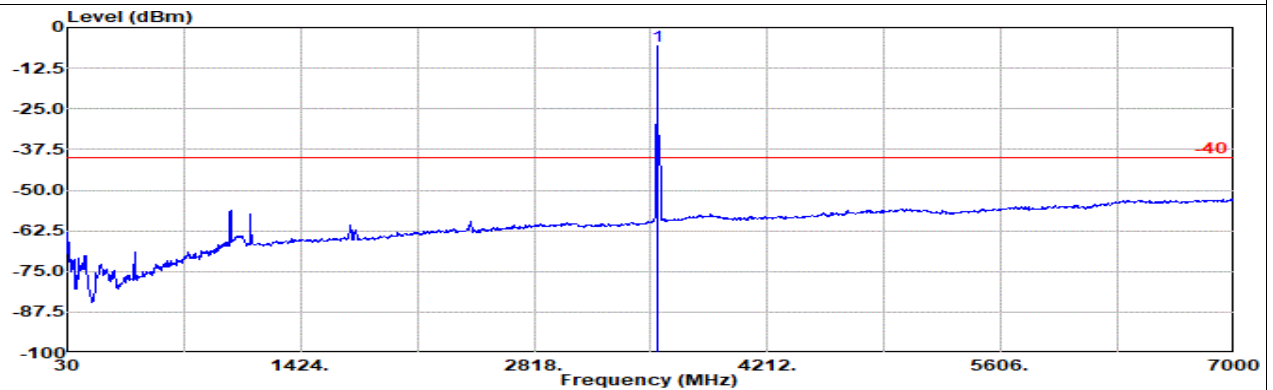
LTE B48 20M Ch55340 1RB0 QPSK

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.

1	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB		dB	dBuV	dBm	dB	
1	3556.00	-7.51	RMS		29.40	-23.40	3.64	-95.23	78.08	-40.00	32.49	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.

1	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB		dB	dBuV	dBm	dB	
1	3556.00	-5.59	RMS		29.40	-23.40	3.64	-95.23	80.00	-40.00	34.41	Vertical

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

————THE END————