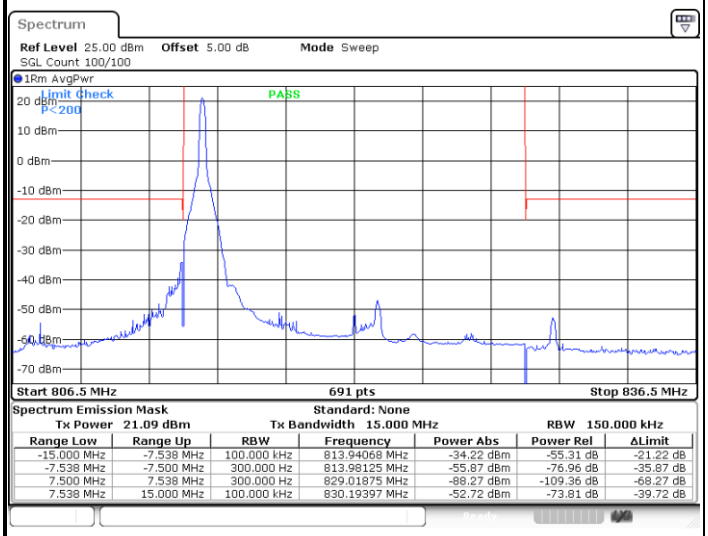
LTE Band 26 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

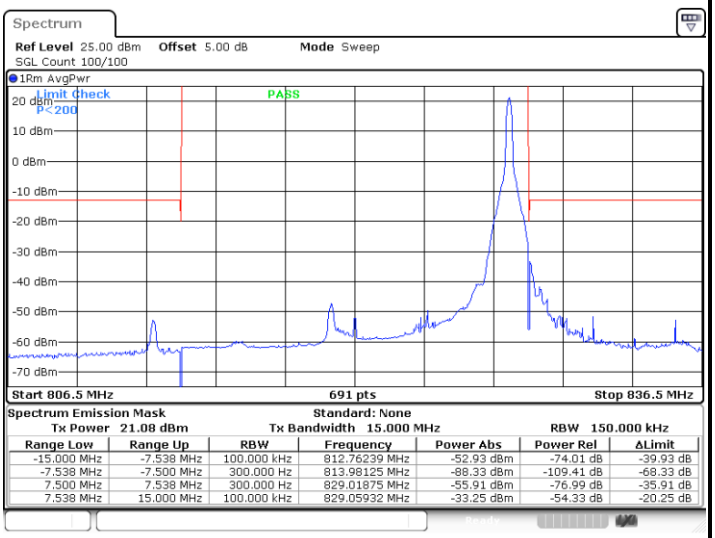


Spectrum Emission Mask Standard: None
Tx Power 21.09 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-34.22 dBm	-55.31 dB	-21.22 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-55.87 dBm	-76.96 dB	-35.87 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-88.27 dBm	-109.36 dB	-68.27 dB
7.538 MHz	15.000 MHz	100.000 kHz	830.19397 MHz	-52.72 dBm	-73.81 dB	-39.72 dB

Date: 28.JUN.2022 03:55:56

Lowest Band Edge / 1 RB max

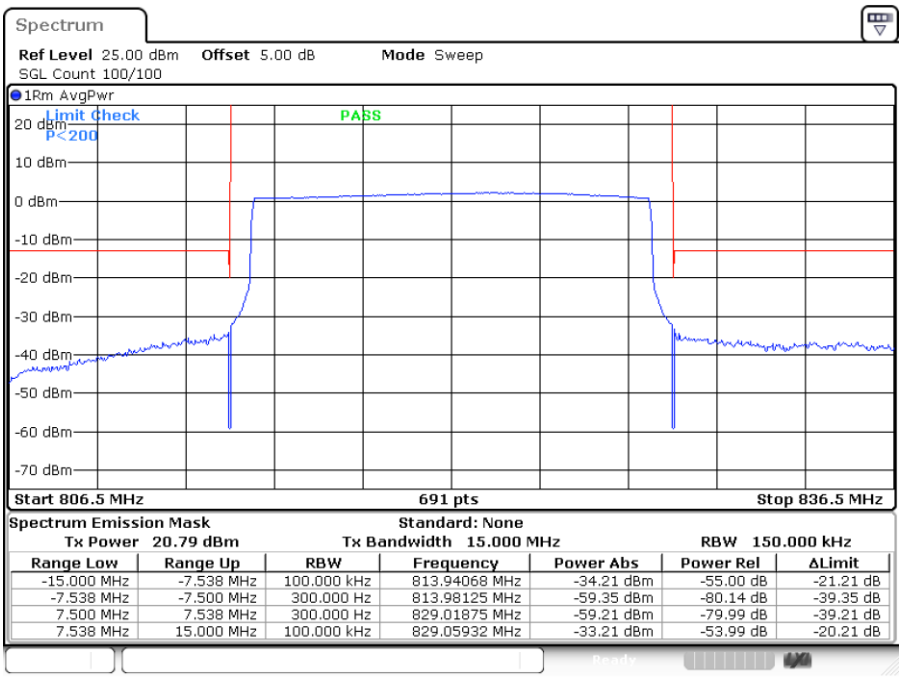


Spectrum Emission Mask Standard: None
Tx Power 21.08 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	812.76239 MHz	-52.93 dBm	-74.01 dB	-39.93 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-88.33 dBm	-109.41 dB	-68.33 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-55.91 dBm	-76.99 dB	-35.91 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05932 MHz	-33.25 dBm	-54.33 dB	-20.25 dB

Date: 28.JUN.2022 03:59:22

Band Edge / Full RB



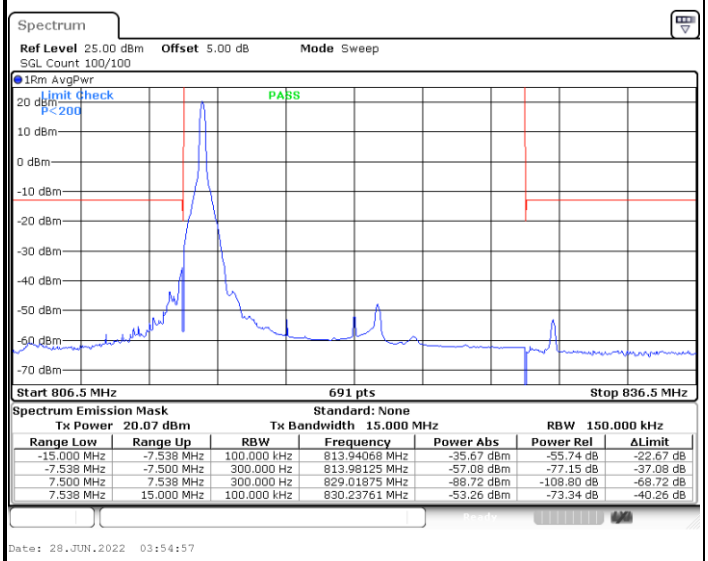
Spectrum Emission Mask Standard: None
Tx Power 20.79 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-34.21 dBm	-55.00 dB	-21.21 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-59.35 dBm	-80.14 dB	-39.35 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-59.21 dBm	-79.99 dB	-39.21 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05932 MHz	-33.21 dBm	-53.99 dB	-20.21 dB

Date: 28.JUN.2022 03:49:45

LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

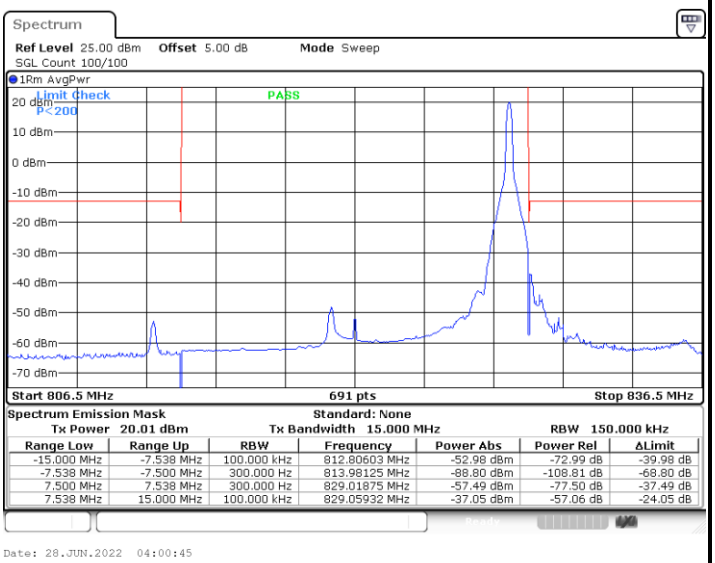


Spectrum Emission Mask Standard: None
Tx Power 20.07 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-35.67 dBm	-55.74 dB	-22.67 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-57.08 dBm	-77.15 dB	-37.08 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-88.72 dBm	-108.80 dB	-68.72 dB
7.538 MHz	15.000 MHz	100.000 kHz	830.23761 MHz	-53.26 dBm	-73.34 dB	-40.26 dB

Date: 28.JUN.2022 03:54:57

Lowest Band Edge / 1 RB max

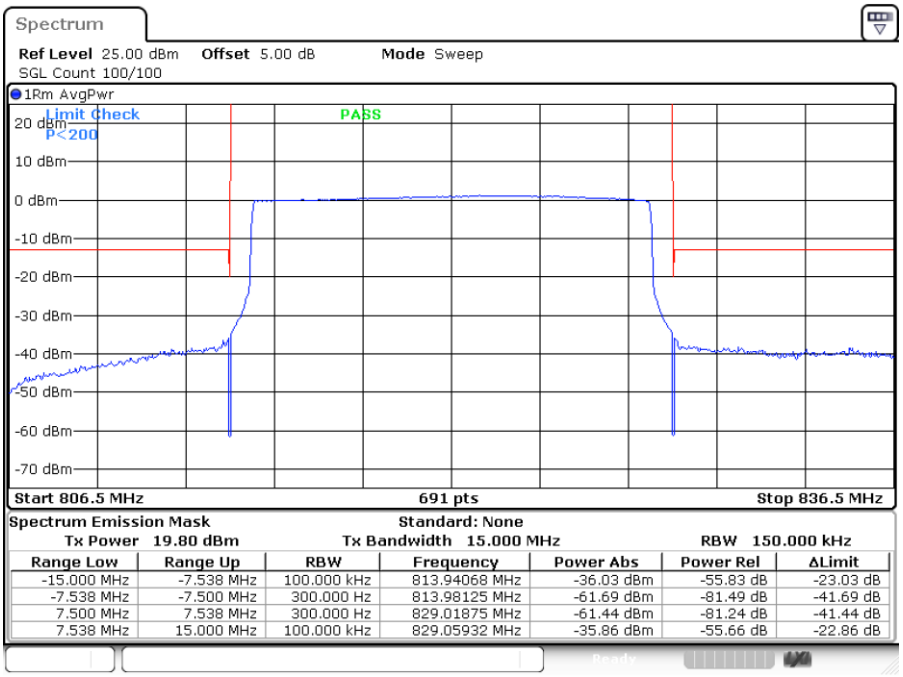


Spectrum Emission Mask Standard: None
Tx Power 20.01 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	812.80603 MHz	-52.98 dBm	-72.99 dB	-39.98 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-88.80 dBm	-108.81 dB	-68.80 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-57.49 dBm	-77.50 dB	-37.49 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05932 MHz	-37.05 dBm	-57.06 dB	-24.05 dB

Date: 28.JUN.2022 04:00:45

Band Edge / Full RB



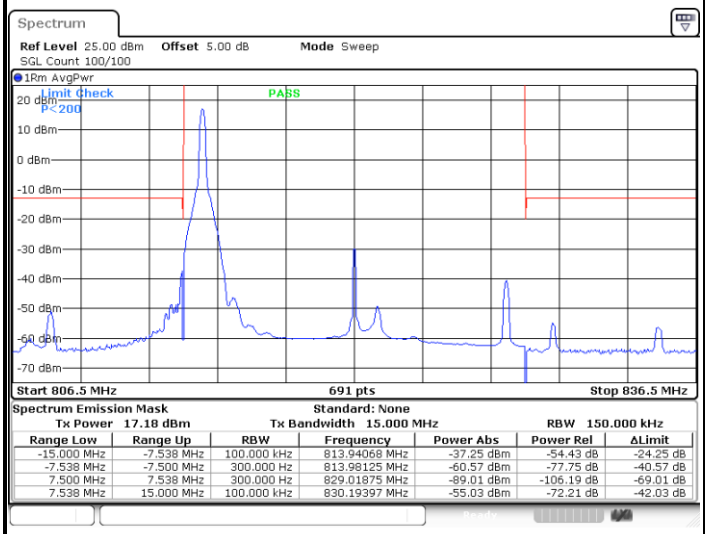
Spectrum Emission Mask Standard: None
Tx Power 19.80 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-36.03 dBm	-55.83 dB	-23.03 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-61.69 dBm	-81.49 dB	-41.69 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-61.44 dBm	-81.24 dB	-41.44 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05932 MHz	-35.86 dBm	-55.66 dB	-22.86 dB

Date: 28.JUN.2022 03:51:06

LTE Band 26 / 15MHz / 256QAM

Lowest Band Edge / 1 RB

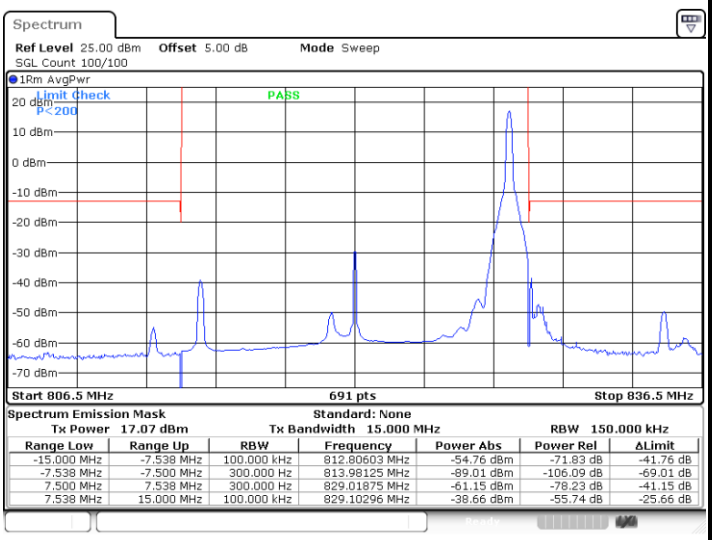


Spectrum Emission Mask — Standard: None
Tx Power 17.18 dBm — Tx Bandwidth 15.000 MHz — RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-37.25 dBm	-54.43 dB	-24.25 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-60.57 dBm	-77.75 dB	-40.57 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-89.01 dBm	-106.19 dB	-69.01 dB
7.538 MHz	15.000 MHz	100.000 kHz	830.19397 MHz	-55.03 dBm	-72.21 dB	-42.03 dB

Date: 28.JUN.2022 03:53:58

Lowest Band Edge / 1 RB max

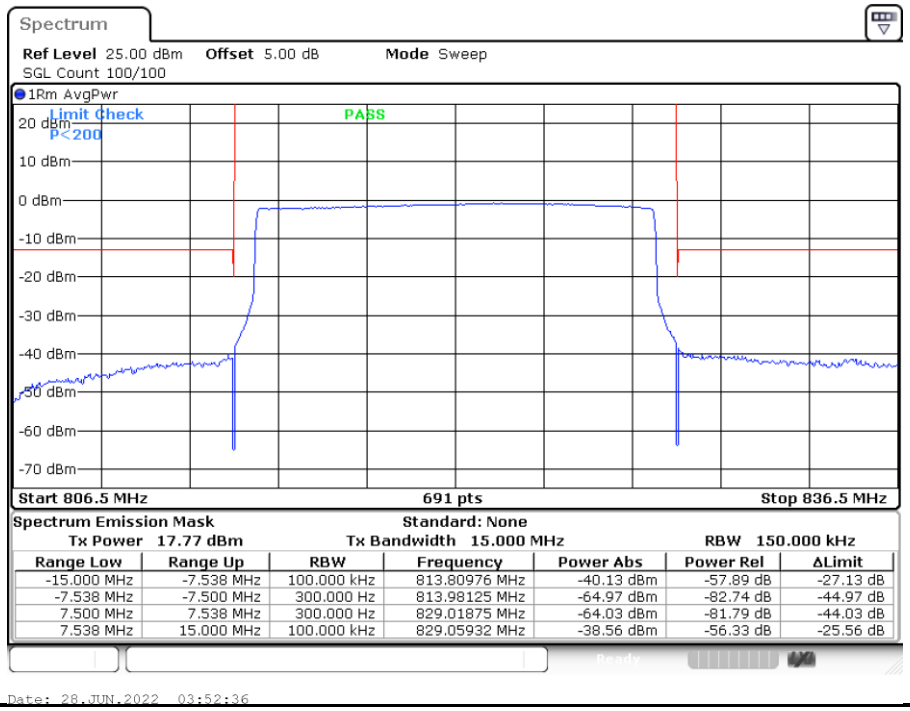


Spectrum Emission Mask — Standard: None
Tx Power 17.07 dBm — Tx Bandwidth 15.000 MHz — RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	812.80603 MHz	-54.76 dBm	-71.83 dB	-41.76 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-89.01 dBm	-106.09 dB	-69.01 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-61.15 dBm	-78.23 dB	-41.15 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.10296 MHz	-38.66 dBm	-55.74 dB	-25.66 dB

Date: 28.JUN.2022 04:01:47

Band Edge / Full RB



Spectrum Emission Mask — Standard: None
Tx Power 17.77 dBm — Tx Bandwidth 15.000 MHz — RBW 150.000 kHz

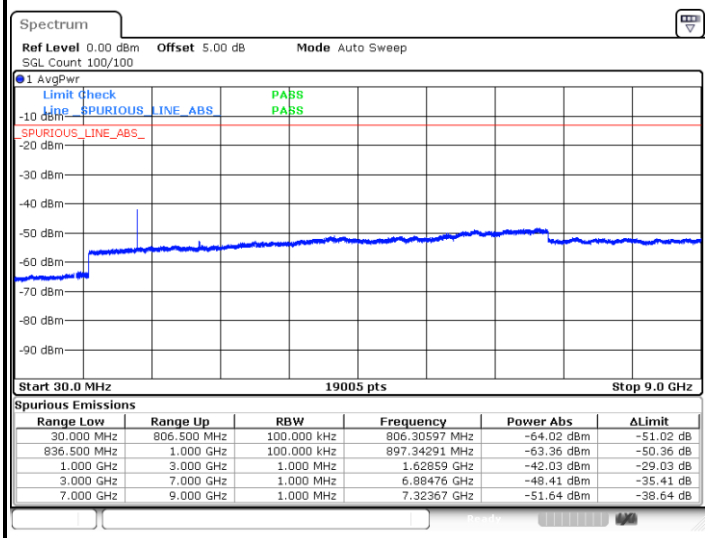
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.80976 MHz	-40.13 dBm	-57.89 dB	-27.13 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.98125 MHz	-64.97 dBm	-82.74 dB	-44.97 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01875 MHz	-64.03 dBm	-81.79 dB	-44.03 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05932 MHz	-38.56 dBm	-56.33 dB	-25.56 dB

Date: 28.JUN.2022 03:52:36

Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

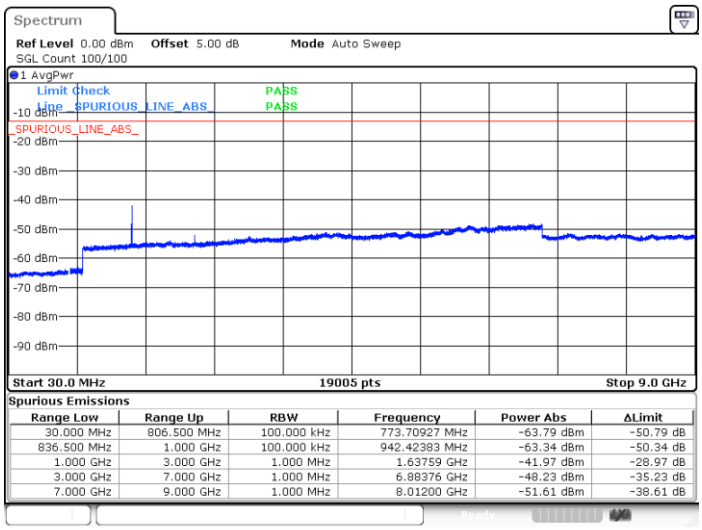


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.30597 MHz	-64.02 dBm	-51.02 dB
836.500 MHz	1.000 GHz	100.000 kHz	897.34291 MHz	-63.36 dBm	-50.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.03 dBm	-29.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88476 GHz	-48.41 dBm	-35.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.32367 GHz	-51.64 dBm	-38.64 dB

Date: 28.JUN.2022 03:18:06

Middle Channel / QPSK

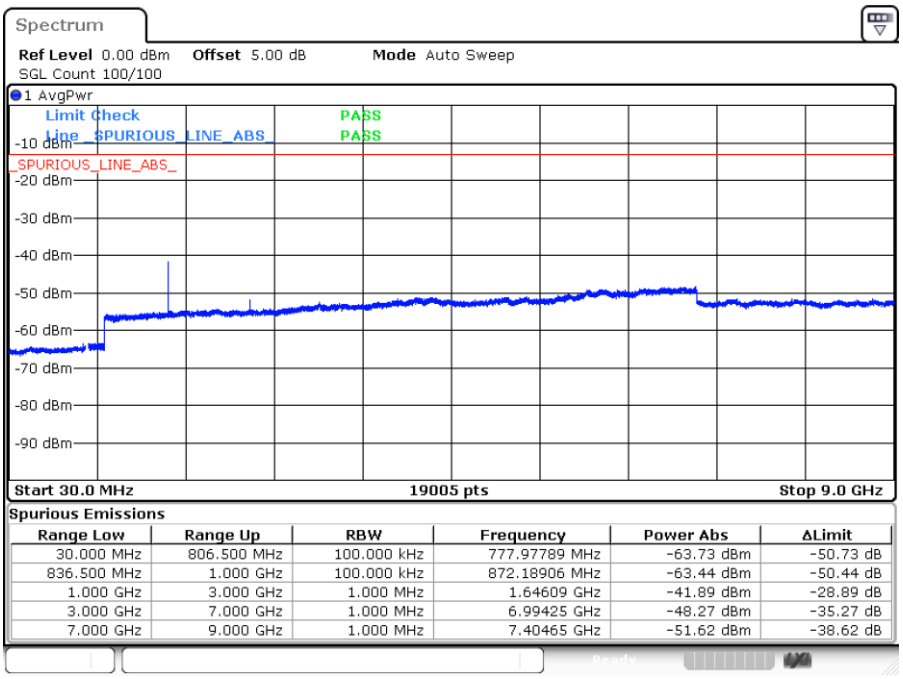


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	773.70927 MHz	-63.79 dBm	-50.79 dB
836.500 MHz	1.000 GHz	100.000 kHz	942.42383 MHz	-63.34 dBm	-50.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-41.97 dBm	-28.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88376 GHz	-48.23 dBm	-35.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01200 GHz	-51.61 dBm	-38.61 dB

Date: 28.JUN.2022 03:19:49

Highest Channel / QPSK



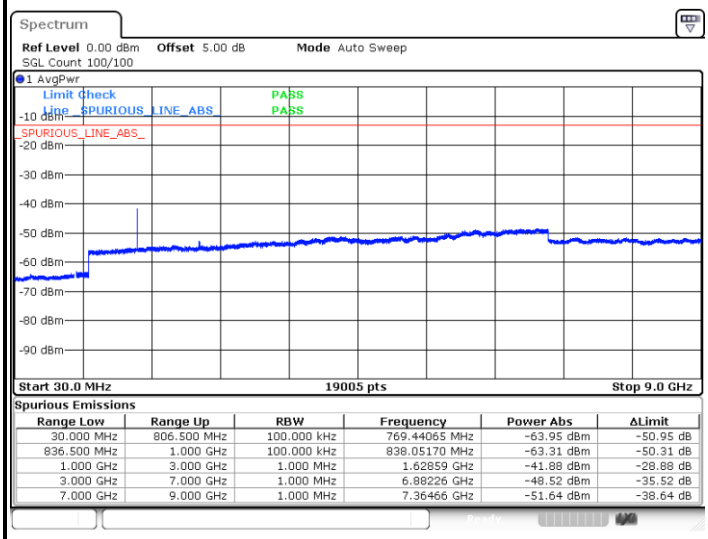
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	777.97789 MHz	-63.73 dBm	-50.73 dB
836.500 MHz	1.000 GHz	100.000 kHz	872.18906 MHz	-63.44 dBm	-50.44 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-41.89 dBm	-28.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-48.27 dBm	-35.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40465 GHz	-51.62 dBm	-38.62 dB

Date: 28.JUN.2022 03:21:32

LTE Band 26 / 3MHz

Lowest Channel / QPSK

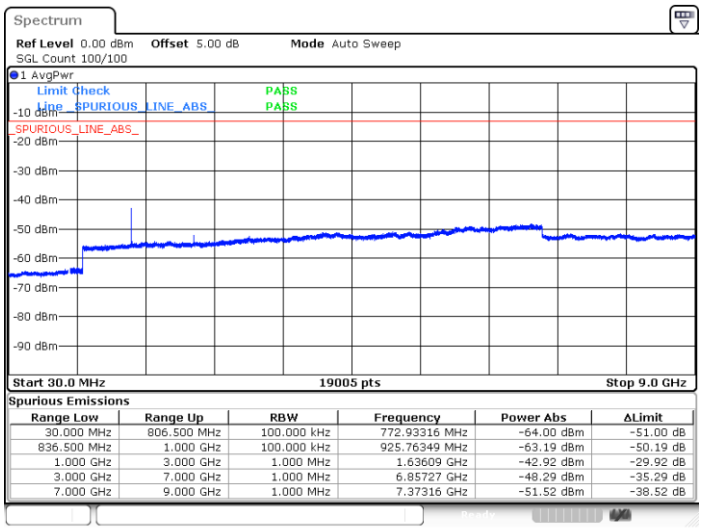


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	769.44065 MHz	-63.95 dBm	-50.95 dB
836.500 MHz	1.000 GHz	100.000 kHz	838.05170 MHz	-63.31 dBm	-50.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-41.88 dBm	-28.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88226 GHz	-48.52 dBm	-35.52 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36466 GHz	-51.64 dBm	-38.64 dB

Date: 28.JUN.2022 03:23:16

Middle Channel / QPSK

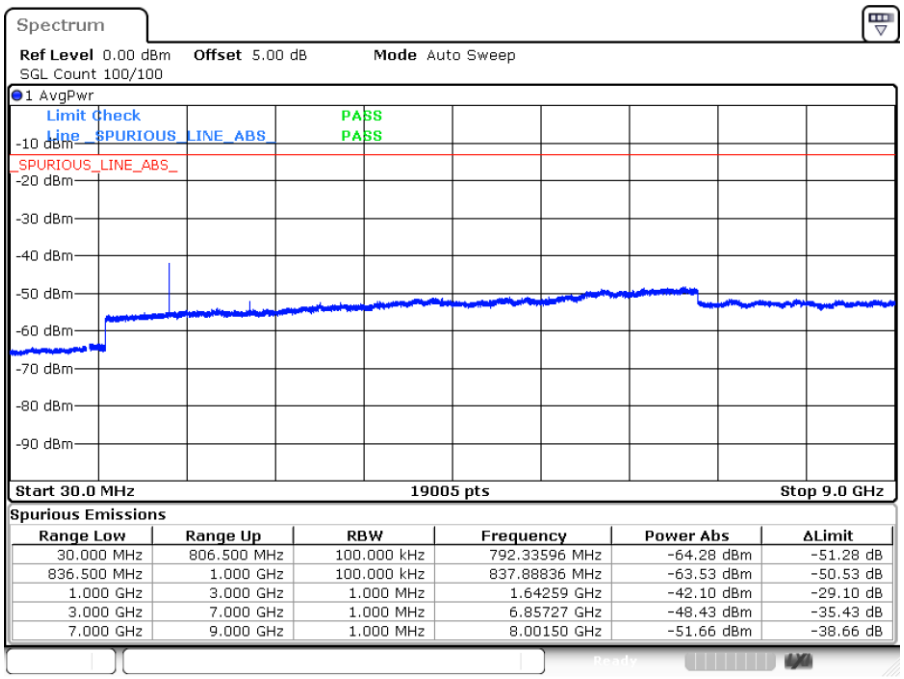


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	772.93316 MHz	-64.00 dBm	-51.00 dB
836.500 MHz	1.000 GHz	100.000 kHz	925.76349 MHz	-63.19 dBm	-50.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63609 GHz	-42.92 dBm	-29.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85727 GHz	-48.29 dBm	-35.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37316 GHz	-51.52 dBm	-38.52 dB

Date: 28.JUN.2022 03:24:59

Highest Channel / QPSK



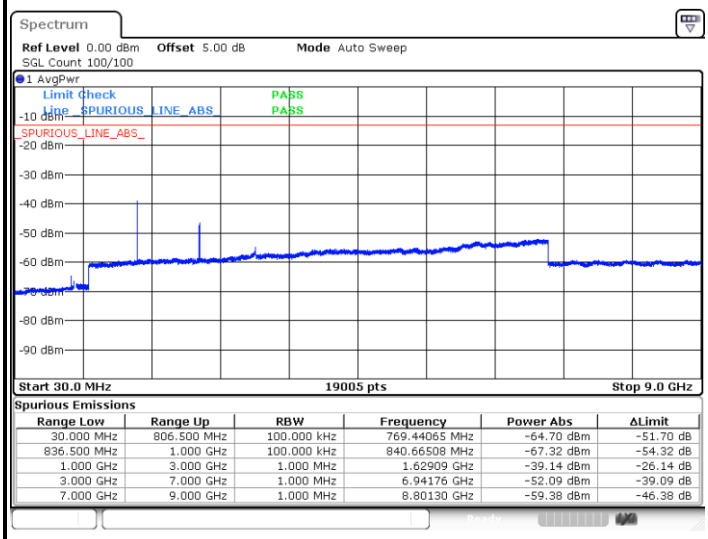
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	792.33596 MHz	-64.28 dBm	-51.28 dB
836.500 MHz	1.000 GHz	100.000 kHz	837.88836 MHz	-63.53 dBm	-50.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-42.10 dBm	-29.10 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85727 GHz	-48.43 dBm	-35.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00150 GHz	-51.66 dBm	-38.66 dB

Date: 28.JUN.2022 03:26:42

LTE Band 26 / 5MHz

Lowest Channel / QPSK

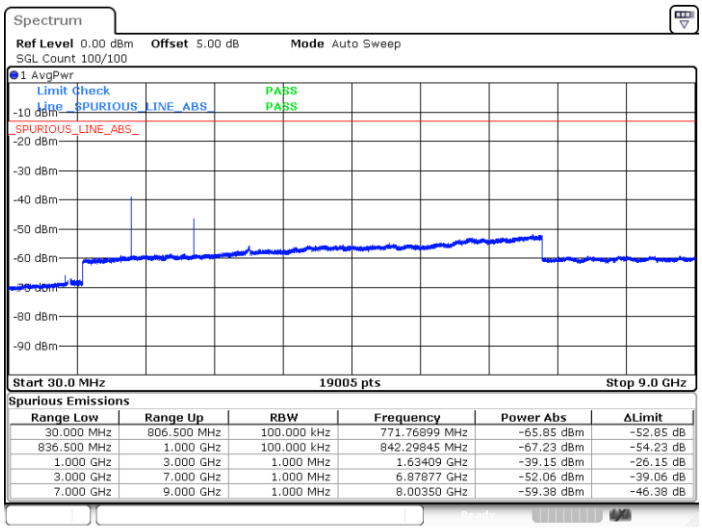


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	769.44065 MHz	-64.70 dBm	-51.70 dB
836.500 MHz	1.000 GHz	100.000 kHz	840.66508 MHz	-67.32 dBm	-54.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-39.14 dBm	-26.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94176 GHz	-52.09 dBm	-39.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.80130 GHz	-59.38 dBm	-46.38 dB

Date: 28.JUN.2022 03:28:25

Middle Channel / QPSK

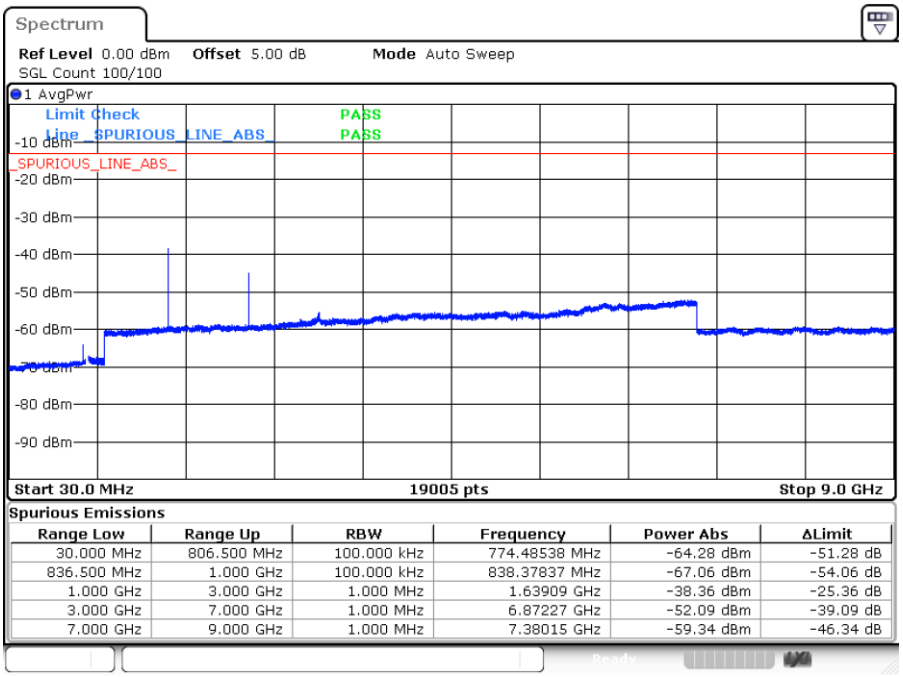


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	771.76899 MHz	-65.85 dBm	-52.85 dB
836.500 MHz	1.000 GHz	100.000 kHz	842.29845 MHz	-67.23 dBm	-54.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-39.15 dBm	-26.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87877 GHz	-52.06 dBm	-39.06 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00350 GHz	-59.38 dBm	-46.38 dB

Date: 28.JUN.2022 03:30:08

Highest Channel / QPSK



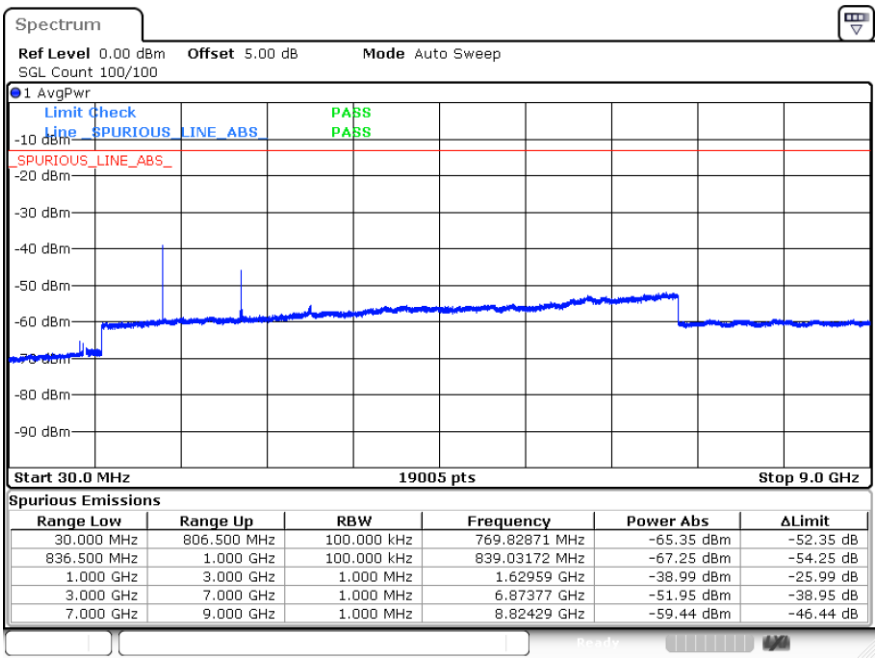
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	774.48538 MHz	-64.28 dBm	-51.28 dB
836.500 MHz	1.000 GHz	100.000 kHz	838.37837 MHz	-67.06 dBm	-54.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-38.36 dBm	-25.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87227 GHz	-52.09 dBm	-39.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38015 GHz	-59.34 dBm	-46.34 dB

Date: 28.JUN.2022 03:31:51

LTE Band 26 / 10MHz

Middle Channel / QPSK



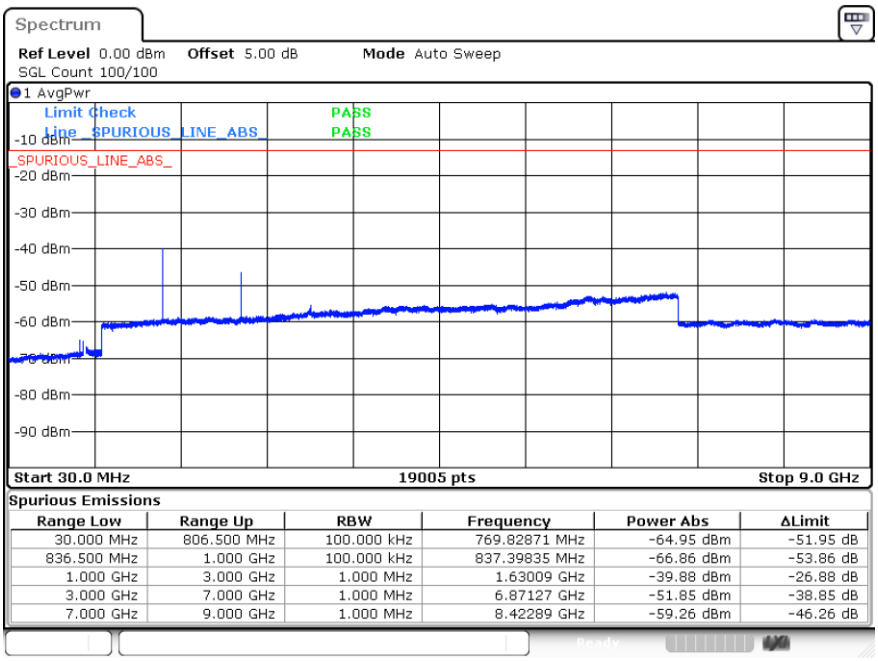
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	769.82871 MHz	-65.35 dBm	-52.35 dB
836.500 MHz	1.000 GHz	100.000 kHz	839.03172 MHz	-67.25 dBm	-54.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-38.99 dBm	-25.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87377 GHz	-51.95 dBm	-38.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.82429 GHz	-59.44 dBm	-46.44 dB

Date: 28.JUN.2022 03:33:35

LTE Band 26 / 15MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	769.82871 MHz	-64.95 dBm	-51.95 dB
836.500 MHz	1.000 GHz	100.000 kHz	837.39835 MHz	-66.86 dBm	-53.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-39.88 dBm	-26.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87127 GHz	-51.85 dBm	-38.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.42289 GHz	-59.26 dBm	-46.26 dB

Date: 28.JUN.2022 03:35:18

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0113	PASS
40	Normal Voltage	0.0062	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0094	
-30	Normal Voltage	0.0126	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Levi zhuo	Temperature :	22~23℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

LTE Band 26 / 10MHz / QPSK(Ant.0)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-64.49	-13	-51.49	-71.46	1.58	10.70	H
	2440	-59.95	-13	-46.95	-68.20	2.102	12.50	H
	3256	-58.35	-13	-45.35	-67.24	2.856	13.90	H
	1632	-64.00	-13	-51.00	-70.97	1.58	10.70	V
	2440	-58.31	-13	-45.31	-66.56	2.10	12.50	V
	3256	-58.57	-13	-45.57	-67.46	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.