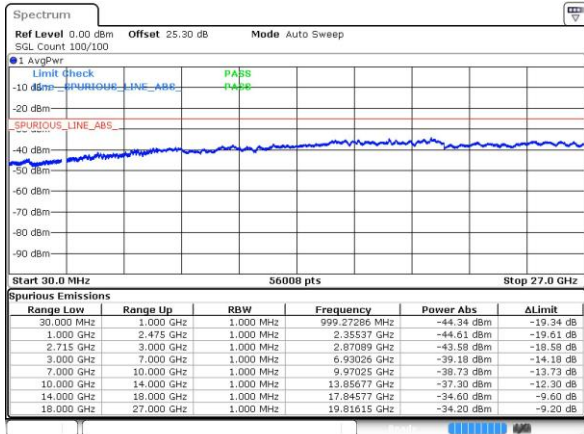




EN-DC

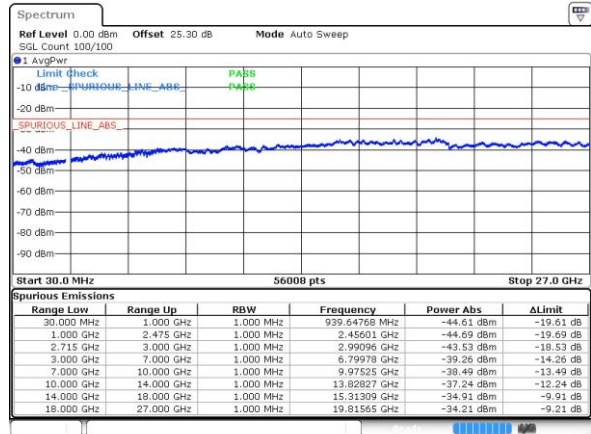
LTE 20MHz + NR 100MHz Lowest Channel

QPSK 1 RB



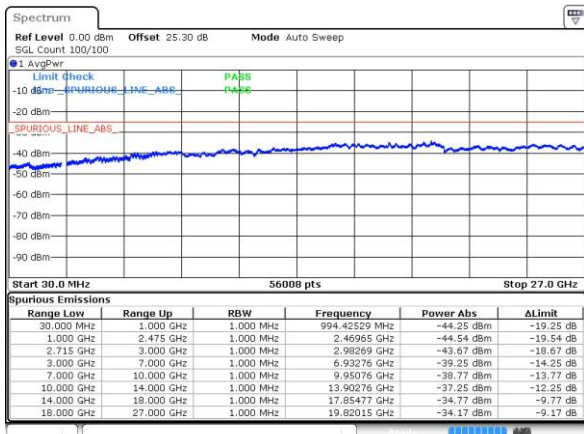
Date: 12.MAR.2019 01:13:49

QPSK Full RB



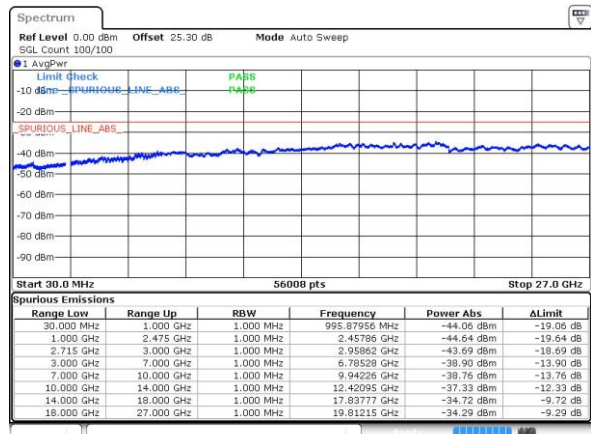
Date: 12.MAR.2019 01:10:11

16QAM 1 RB



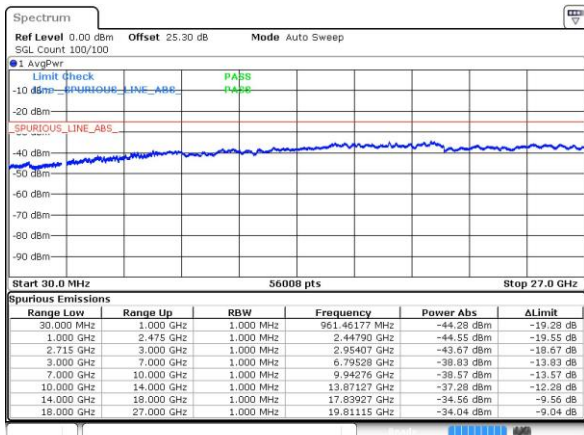
Date: 12.MAR.2019 01:13:06

16QAM Full RB



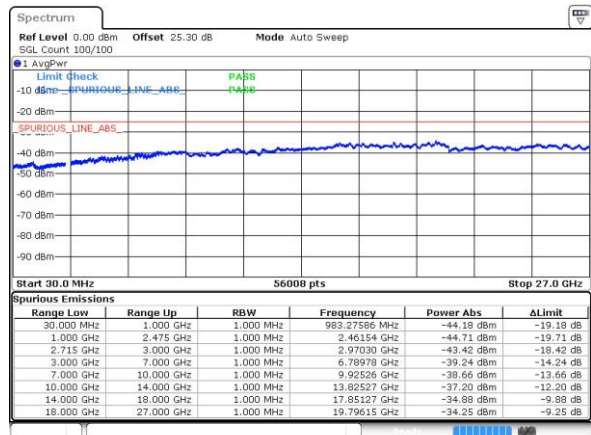
Date: 12.MAR.2019 01:10:54

64QAM 1 RB



Date: 12.MAR.2019 01:12:22

64QAM Full RB



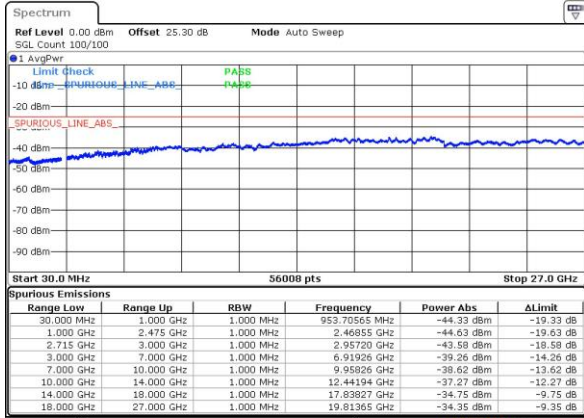
Date: 12.MAR.2019 01:11:38



EN-DC

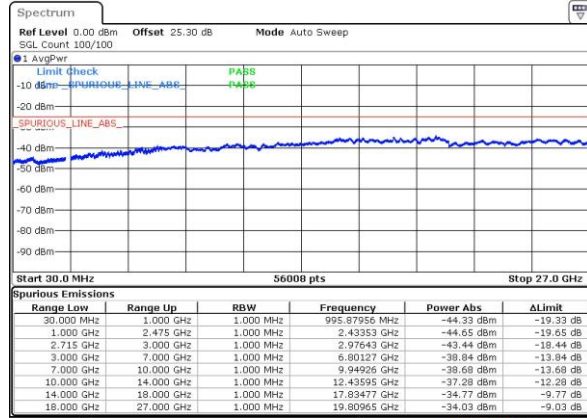
LTE 20MHz + NR 100MHz Middle Channel

QPSK 1 RB



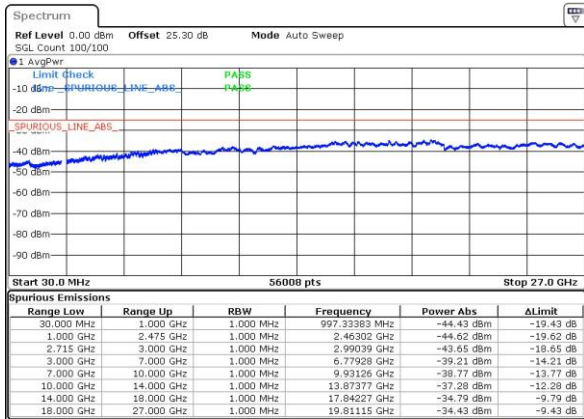
Date: 12 MAR 2019 01:24:38

QPSK Full RB



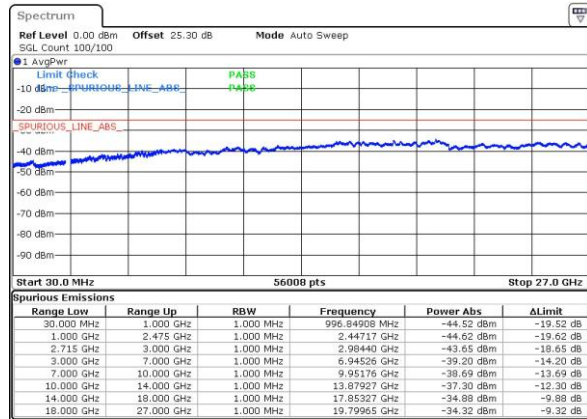
Date: 12 MAR 2019 01:28:47

16QAM 1 RB



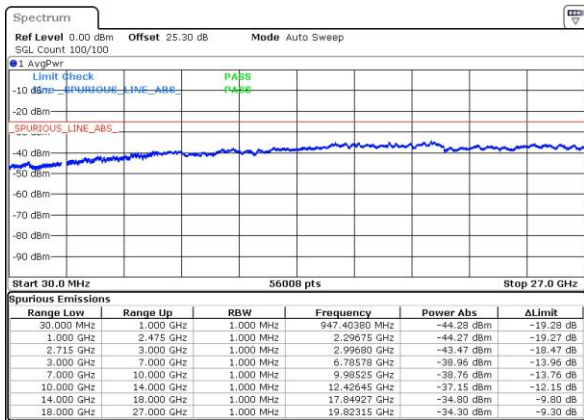
Date: 12 MAR 2019 01:23:34

16QAM Full RB



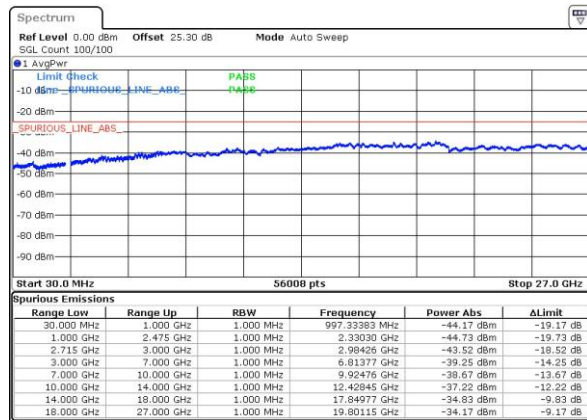
Date: 12 MAR 2019 01:27:33

64QAM 1 RB



Date: 12 MAR 2019 01:20:48

64QAM Full RB



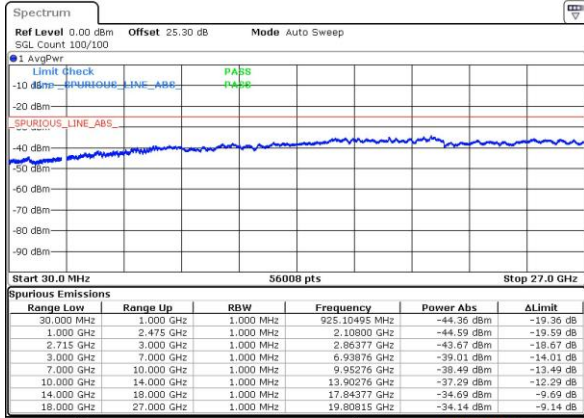
Date: 12 MAR 2019 01:28:20



EN-DC

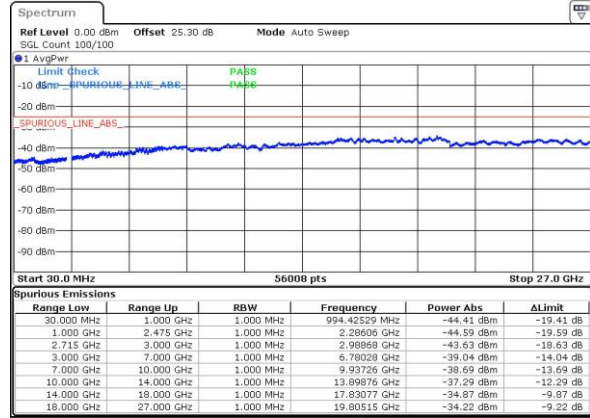
LTE 20MHz + NR 100MHz Highest Channel

QPSK 1 RB



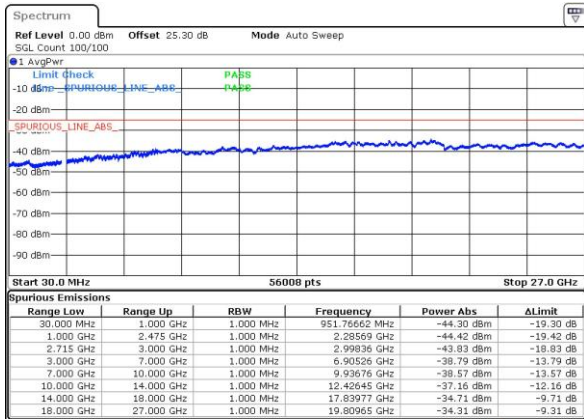
Date: 12.MAR.2019 01:34:04

QPSK Full RB



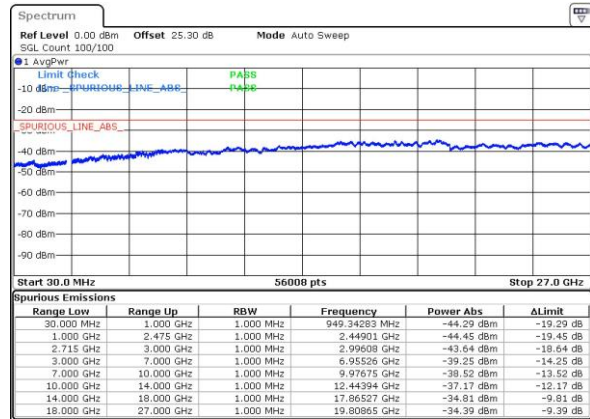
Date: 12.MAR.2019 01:28:19

16QAM 1 RB



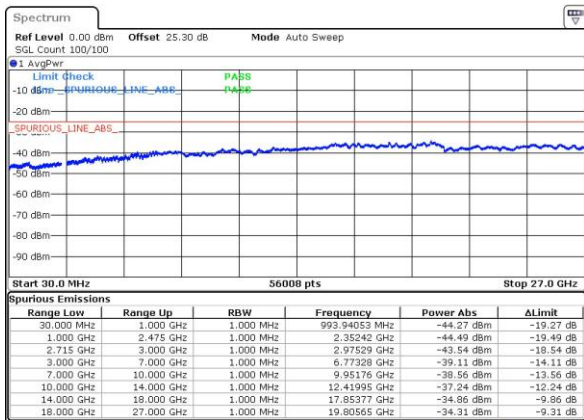
Date: 12.MAR.2019 01:33:12

16QAM Full RB



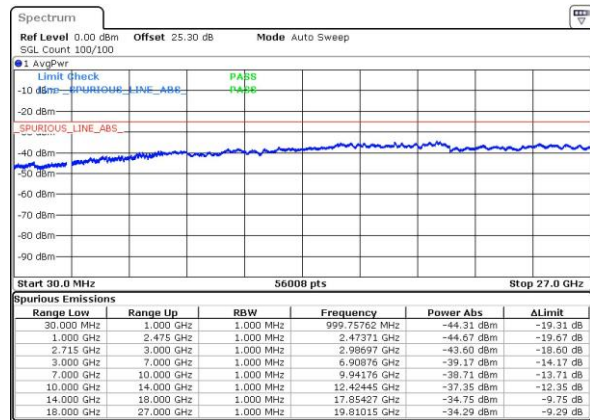
Date: 12.MAR.2019 01:30:06

64QAM 1 RB



Date: 12.MAR.2019 01:32:05

64QAM Full RB



Date: 12.MAR.2019 01:31:21

Frequency Stability

Test Conditions		Band 41 NR / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	CW Tone	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	-1.12	PASS
40	Normal Voltage	-1.12	
30	Normal Voltage	-1.12	
20(Ref.)	Normal Voltage	0.00	
10	Normal Voltage	0.58	
0	Normal Voltage	0.58	
-10	Normal Voltage	0.58	
-20	Normal Voltage	-1.12	
-30	Normal Voltage	-1.12	
20	Maximum Voltage	-1.12	
20	Normal Voltage	0.00	
20	Battery End Point	-1.12	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of EIRP and Radiated Test

EIRP

EN-DC n41 100 + 20 MHz (GT - LC = 1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	0	26.96	0.4961	27.96	0.6245
Middle		1	272	1	99	26.72	0.4698	27.72	0.5914
Highest		273	0	100	0	26.63	0.4603	27.63	0.5795
Lowest	16QAM	1	0	1	0	26.71	0.4686	27.71	0.5899
Middle		1	272	1	99	26.51	0.4478	27.51	0.5637
Highest		273	0	100	0	26.84	0.4826	27.84	0.6075
Lowest	64QAM	1	0	1	0	26.06	0.4041	27.06	0.5087
Middle		1	272	1	99	26.25	0.4218	27.25	0.5310
Highest		273	0	100	0	25.95	0.3938	26.95	0.4958
Limit	EIRP < 2W					Result		PASS	

EN-DC n41 80 + 20 MHz (GT - LC = 1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	0	26.92	0.4921	27.92	0.6195
Middle		1	216	1	99	26.68	0.4661	27.68	0.5868
Highest		217	0	100	0	26.67	0.4641	27.67	0.5843
Lowest	16QAM	1	0	1	0	26.79	0.4776	27.79	0.6013
Middle		1	216	1	99	26.60	0.4574	27.60	0.5759
Highest		217	0	100	0	26.61	0.4577	27.61	0.5762
Lowest	64QAM	1	0	1	0	26.01	0.3990	27.01	0.5024
Middle		1	216	1	99	26.21	0.4181	27.21	0.5264
Highest		217	0	100	0	26.01	0.3990	27.01	0.5024
Limit	EIRP < 2W					Result		PASS	



EN-DC n41 60 + 20 MHz (GT - LC = 1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	0	26.61	0.4576	27.61	0.5761
Middle		1	161	1	99	26.91	0.4909	27.91	0.6181
Highest		162	0	100	0	26.48	0.4451	27.48	0.5603
Lowest	16QAM	1	0	1	0	26.50	0.4462	27.50	0.5618
Middle		1	161	1	99	26.83	0.4818	27.83	0.6065
Highest		162	0	100	0	26.30	0.4267	27.30	0.5372
Lowest	64QAM	1	0	1	0	26.17	0.4142	27.17	0.5214
Middle		1	161	1	99	26.27	0.4241	27.27	0.5339
Highest		162	0	100	0	26.01	0.3994	27.01	0.5028
Limit	EIRP < 2W					Result		PASS	

EN-DC n41 40 + 20 MHz (GT - LC = 1 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	0	26.57	0.4544	27.57	0.5721
Middle		1	105	1	99	26.65	0.4621	27.65	0.5818
Highest		106	0	100	0	26.91	0.4910	27.91	0.6181
Lowest	16QAM	1	0	1	0	26.63	0.4599	27.63	0.5790
Middle		1	105	1	99	26.73	0.4708	27.73	0.5927
Highest		106	0	100	0	26.59	0.4563	27.59	0.5744
Lowest	64QAM	1	0	1	0	26.17	0.4141	27.17	0.5213
Middle		1	105	1	99	26.02	0.3998	27.02	0.5033
Highest		106	0	100	0	26.30	0.4267	27.30	0.5372
Limit	EIRP < 2W					Result		PASS	

**Radiated Spurious Emission****Part 27M**

EN DC LTE 20MHz + NR 100MHz									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4992	-33.55	-25	-8.55	-24.46	-44.82	1.43	12.70	H
	5196	-55.77	-25	-30.77	-46.93	-67.14	1.56	12.94	H
	7440	-58.56	-25	-33.56	-54.79	-67.29	2.45	11.18	H
	7788	-42.53	-25	-17.53	-38.8	-51.10	2.70	11.27	H
	12984	-49.59	-25	-24.59	-52.82	-59.04	3.95	13.41	H
	15586.5	-55.32	-25	-30.32	-60.73	-66.60	3.86	15.14	H
	4992	-35.73	-25	-10.73	-27.15	-47.00	1.43	12.70	V
	5196	-58.29	-25	-33.29	-50.16	-69.66	1.56	12.94	V
	7440	-59.07	-25	-34.07	-55.03	-67.80	2.45	11.18	V
	7788	-44.83	-25	-19.83	-41.18	-53.40	2.70	11.27	V
	12984	-49.60	-25	-24.60	-53.6	-59.05	3.95	13.41	V
	15586.5	-55.94	-25	-30.94	-61.69	-67.22	3.86	15.14	V
Middle	5088	-31.06	-25	-6.06	-22.09	-42.38	1.49	12.81	H
	5292	-52.67	-25	-27.67	-43.94	-64.09	1.63	13.05	H
	7632	-57.36	-25	-32.36	-53.38	-65.96	2.58	11.18	H
	7932	-52.25	-25	-27.25	-49.71	-60.80	2.81	11.36	H
	10176	-53.49	-25	-28.49	-52.97	-61.50	3.12	11.13	H
	13224	-54.21	-25	-29.21	-58.01	-63.46	3.97	13.22	H
	15264	-52.44	-25	-27.44	-57.17	-62.35	3.90	13.81	H
	15862	-52.83	-25	-27.83	-58.67	-65.08	3.99	16.25	H
	5088	-36.71	-25	-11.71	-28.33	-48.03	1.49	12.81	V
	5292	-53.66	-25	-28.66	-45.63	-65.08	1.63	13.05	V
	7632	-54.08	-25	-29.08	-50.17	-62.68	2.58	11.18	V
	7932	-48.91	-25	-23.91	-46.26	-57.46	2.81	11.36	V
	10176	-56.30	-25	-31.30	-55.49	-64.31	3.12	11.13	V
	13224	-52.55	-25	-27.55	-56.9	-61.80	3.97	13.22	V
	15264	-50.40	-25	-25.40	-56.54	-60.31	3.90	13.81	V
	15862	-53.45	-25	-28.45	-59.51	-65.70	3.99	16.25	V



EN DC LTE 20MHz + NR 100MHz									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	5148	-55.16	-25	-30.16	-46.27	-66.51	1.53	12.88	H
	5184	-33.20	-25	-8.20	-24.35	-44.57	1.56	12.92	H
	7728	-51.78	-25	-26.78	-47.96	-60.36	2.65	11.24	H
	7776	-54.23	-25	-29.23	-50.48	-62.81	2.69	11.27	H
	10368	-51.33	-25	-26.33	-51.29	-59.17	3.21	11.05	H
	12852	-49.13	-25	-24.13	-52.3	-58.69	3.90	13.46	H
	15425.5	-54.06	-25	-29.06	-59.17	-64.7	3.85	14.49	H
	15552	-55.67	-25	-30.67	-61.02	-66.83	3.84	15.01	H
	5148	-57.47	-25	-32.47	-49.23	-68.82	1.53	12.88	V
	5184	-31.92	-25	-6.92	-23.76	-43.29	1.56	12.92	V
	7728	-44.44	-25	-19.44	-40.69	-53.02	2.65	11.24	V
	7776	-49.49	-25	-24.49	-45.82	-58.07	2.69	11.27	V
	10368	-54.61	-25	-29.61	-54.34	-62.45	3.21	11.05	V
	12852	-48.65	-25	-23.65	-52.04	-58.21	3.90	13.46	V
	15425.5	-54.93	-25	-29.93	-60.75	-65.57	3.85	14.49	V
	15552	-55.33	-25	-30.33	-61.04	-66.49	3.84	15.01	V

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