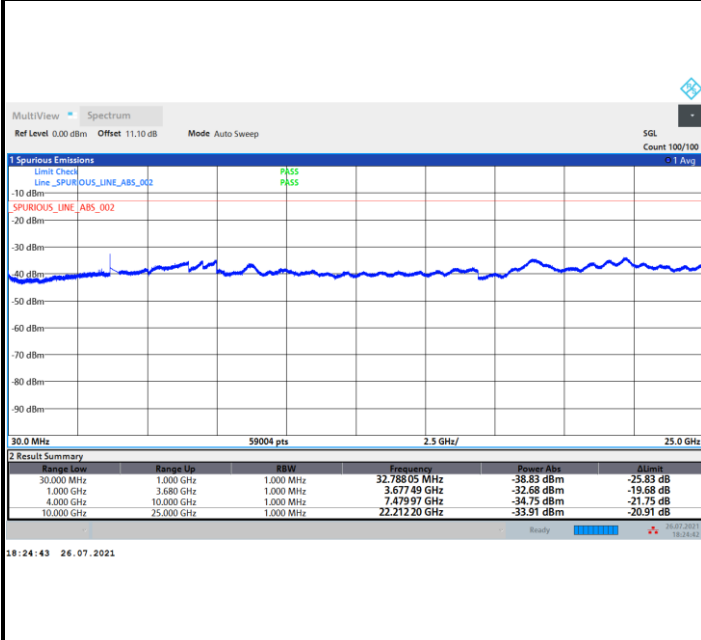




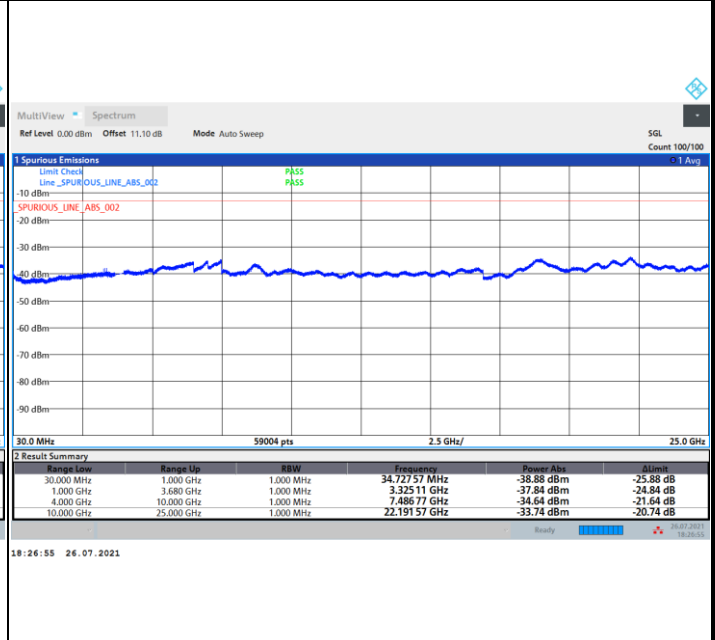
Conducted Spurious Emission

FR1 n77 / 20MHz / DFT-S OFDM / QPSK / 1RB1

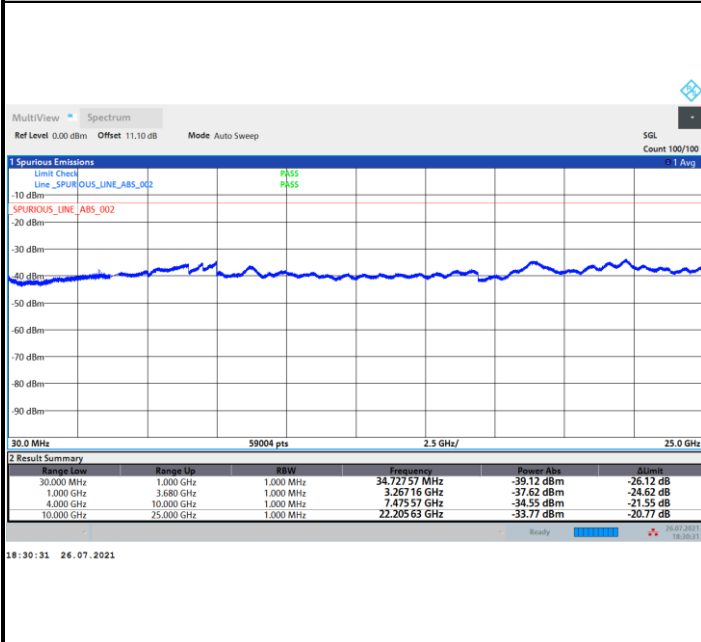
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
40	Normal Voltage	0.0005	PASS
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0003	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.
- 3. EUT can't operate outside the temperatures between -20 °C and 40 °C.



Appendix B. Test Results of Radiated Test

EN-DC 2A-n5A

EN-DC 2A-n5A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	1650	-56.02	-13	-43.02	-75.93	-58.44	4.93	9.50	H
	2475	-54.40	-13	-41.40	-77.48	-56.67	6.08	10.50	H
	3300	-52.19	-13	-39.19	-78.85	-54.11	7.03	11.10	H
									H
	1650	-56.39	-13	-43.39	-76.06	-58.81	4.93	9.50	V
	2475	-54.55	-13	-41.55	-77.58	-56.82	6.08	10.50	V
	3300	-52.03	-13	-39.03	-78.43	-53.95	7.03	11.10	V
									V
Middle	1656	-56.37	-13	-43.37	-76.28	-58.82	4.93	9.54	H
	2483	-54.16	-13	-41.16	-77.27	-56.42	6.09	10.50	H
	3310	-51.99	-13	-38.99	-78.63	-53.92	7.04	11.12	H
									H
	1656	-56.50	-13	-43.50	-76.18	-58.95	4.93	9.54	V
	2483	-54.42	-13	-41.42	-77.46	-56.68	6.09	10.50	V
	3310	-52.31	-13	-39.31	-78.7	-54.24	7.04	11.12	V
									V
Highest	1660	-56.33	-13	-43.33	-76.25	-58.80	4.94	9.56	H
	2490	-54.31	-13	-41.31	-77.43	-56.56	6.10	10.50	H
	3320	-52.57	-13	-39.57	-79.19	-54.50	7.06	11.14	H
									H
	1660	-56.47	-13	-43.47	-76.16	-58.94	4.94	9.56	V
	2490	-54.58	-13	-41.58	-77.63	-56.83	6.10	10.50	V
	3320	-52.52	-13	-39.52	-78.89	-54.45	7.06	11.14	V
									V

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



EN-DC 48A-n5A

EN-DC 48A-n5A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-56.21	-13	-43.21	-76.12	-58.66	4.93	9.54	H
	2483	-53.86	-13	-40.86	-76.96	-56.12	6.09	10.50	H
	3310	-52.02	-13	-39.02	-78.66	-53.95	7.04	11.12	H
									H
	1656	-56.28	-13	-43.28	-75.96	-58.73	4.93	9.54	V
	2483	-53.93	-13	-40.93	-76.97	-56.19	6.09	10.50	V
	3310	-52.42	-13	-39.42	-78.81	-54.35	7.04	11.12	V
									V

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

EN-DC 66A-n5A

EN-DC 66A-n5A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-56.46	-13	-43.46	-76.37	-58.91	4.93	9.54	H
	2483	-54.42	-13	-41.42	-77.53	-56.68	6.09	10.50	H
	3310	-51.86	-13	-38.86	-78.5	-53.79	7.04	11.12	H
									H
	1656	-56.73	-13	-43.73	-76.41	-59.18	4.93	9.54	V
	2483	-54.26	-13	-41.26	-77.3	-56.52	6.09	10.50	V
	3310	-52.36	-13	-39.36	-78.75	-54.29	7.04	11.12	V
									V

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



EN-DC 5A-n2A

EN-DC 5A-n2A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	3702	-59.91	-13	-46.91	-78.35	-64.31	7.50	11.90	H
	5553	-58.15	-13	-45.15	-80.62	-61.46	9.19	12.49	H
	7404	-39.06	-13	-26.06	-65.62	-39.60	10.68	11.22	H
									H
	3702	-59.44	-13	-46.44	-77.49	-63.84	7.50	11.90	V
	5553	-58.41	-13	-45.41	-80.82	-61.72	9.19	12.49	V
	7404	-39.16	-13	-26.16	-66.07	-39.70	10.68	11.22	V
									V
Middle	3742	-58.24	-13	-45.24	-76.89	-62.51	7.55	11.82	H
	5610	-55.76	-13	-42.76	-78.41	-58.88	9.24	12.36	H
	7482	-33.62	-13	-20.62	-60.15	-34.35	10.74	11.46	H
									H
	3742	-59.94	-13	-46.94	-78.26	-64.21	7.55	11.82	V
	5610	-57.25	-13	-44.25	-79.88	-60.37	9.24	12.36	V
	7482	-34.23	-13	-21.23	-60.99	-34.96	10.74	11.46	V
									V
Highest	3780	-53.92	-13	-40.92	-72.77	-58.01	7.59	11.68	H
	5673	-57.19	-13	-44.19	-80.09	-60.00	9.30	12.11	H
	7566	-43.70	-13	-30.70	-70.34	-44.60	10.80	11.70	H
									H
	3780	-56.30	-13	-43.30	-74.86	-60.39	7.59	11.68	V
	5673	-57.12	-13	-44.12	-80.12	-59.93	9.30	12.11	V
	7566	-45.08	-13	-32.08	-71.98	-45.98	10.80	11.70	V
									V

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



EN-DC 13A-n2A

EN-DC 13A-n2A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3744	-57.12	-13	-44.12	-75.79	-61.38	7.55	11.81	H
	5610	-55.48	-13	-42.48	-78.13	-58.60	9.24	12.36	H
	7482	-32.57	-13	-19.57	-59.1	-33.30	10.74	11.46	H
									H
	3744	-58.84	-13	-45.84	-77.17	-63.10	7.55	11.81	V
	5610	-57.37	-13	-44.37	-80.03	-60.49	9.24	12.36	V
	7482	-33.75	-13	-20.75	-60.51	-34.48	10.74	11.46	V
									V

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



EN-DC 66A-n2A

EN-DC 13A-662A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	3702	-57.25	-13	-44.25	-75.69	-61.65	7.50	11.90	H
	5553	-58.25	-13	-45.25	-80.72	-61.56	9.19	12.49	H
	7404	-40.47	-13	-27.47	-67.03	-41.01	10.68	11.22	H
									H
	3702	-57.04	-13	-44.04	-75.09	-61.44	7.50	11.90	V
	5553	-57.96	-13	-44.96	-80.38	-61.27	9.19	12.49	V
	7404	-40.66	-13	-27.66	-67.57	-41.20	10.68	11.22	V
									V
Middle	3744	-58.09	-13	-45.09	-76.76	-62.35	7.55	11.81	H
	5610	-55.30	-13	-42.30	-77.95	-58.42	9.24	12.36	H
	7482	-33.19	-13	-20.19	-59.72	-33.92	10.74	11.46	H
									H
	3744	-59.44	-13	-46.44	-77.77	-63.70	7.55	11.81	V
	5610	-57.34	-13	-44.34	-79.97	-60.46	9.24	12.36	V
	7482	-33.65	-13	-20.65	-60.41	-34.38	10.74	11.46	V
									V
Highest	3780	-53.83	-13	-40.83	-72.68	-57.92	7.59	11.68	H
	5670	-56.47	-13	-43.47	-79.36	-59.29	9.30	12.12	H
	7560	-45.15	-13	-32.15	-71.77	-46.06	10.79	11.70	H
									H
	3780	-55.63	-13	-42.63	-74.19	-59.72	7.59	11.68	V
	5670	-56.25	-13	-43.25	-79.23	-59.07	9.30	12.12	V
	7560	-46.20	-13	-33.20	-73.08	-47.11	10.79	11.70	V
									V

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



EN-DC 2A-n66A

EN-DC 2A-n66A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	3420	-54.54	-13	-41.54	-71.91	-58.84	7.16	11.46	H
	5130	-57.71	-13	-44.71	-79.58	-60.47	8.82	11.58	H
	17106	-46.32	-13	-33.32	-79.17	-46.53	16.57	16.79	H
									H
	3420	-54.42	-13	-41.42	-71.59	-58.72	7.16	11.46	V
	5130	-56.75	-13	-43.75	-78.57	-59.51	8.82	11.58	V
	17106	-48.78	-13	-35.78	-81.15	-48.99	16.57	16.79	V
									V
Middle	3474	-55.09	-13	-42.09	-72.5	-59.66	7.22	11.80	H
	5205	-55.24	-13	-42.24	-77.2	-58.26	8.89	11.91	H
	15625	-44.66	-13	-31.66	-75.56	-44.72	15.79	15.85	H
	17358	-43.48	-13	-30.48	-77.95	-43.35	16.70	16.57	H
									H
	3474	-55.22	-13	-42.22	-72.58	-59.79	7.22	11.80	V
	5205	-55.62	-13	-42.62	-77.51	-58.64	8.89	11.91	V
	15625	-47.46	-13	-34.46	-78.13	-47.52	15.79	15.85	V
	17358	-45.51	-13	-32.51	-78.31	-45.38	16.70	16.57	V
									V
Highest	3522	-56.82	-13	-43.82	-74.35	-61.44	7.28	11.90	H
	5280	-54.69	-13	-41.69	-76.74	-57.74	8.95	12.00	H
	15846	-46.72	-13	-33.72	-77.56	-46.78	15.90	15.96	H
	17610	-46.27	-13	-33.27	-80.41	-45.30	16.81	15.84	H
									H
	3522	-56.14	-13	-43.14	-73.57	-60.76	7.28	11.90	V
	5280	-53.22	-13	-40.22	-75.16	-56.27	8.95	12.00	V
	15846	-48.47	-13	-35.47	-79.07	-48.53	15.90	15.96	V
	17610	-47.57	-13	-34.57	-80.99	-46.60	16.81	15.84	V
									V

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



EN-DC 5A-n66A

EN-DC 5A-n66A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3474	-56.25	-13	-43.25	-73.66	-60.82	7.22	11.80	H
	5208	-56.48	-13	-43.48	-78.44	-59.51	8.89	11.92	H
	8676	-45.13	-13	-32.13	-72.72	-44.66	11.57	11.10	H
									H
	3474	-59.79	-13	-46.79	-77.15	-64.36	7.22	11.80	V
	5208	-56.90	-13	-43.90	-78.79	-59.93	8.89	11.92	V
	8676	-48.67	-13	-35.67	-76.1	-48.20	11.57	11.10	V
									V

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



EN-DC 13A-n66A

EN-DC 13A-n66A/ 20MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	3420	-57.42	-13	-44.42	-74.79	-61.72	7.16	11.46	H
	5130	-58.50	-13	-45.50	-80.67	-61.26	8.82	11.58	H
	8550	-55.21	-13	-42.21	-82.7	-54.82	11.49	11.10	H
									H
	3420	-59.87	-13	-46.87	-77.04	-64.17	7.16	11.46	V
	5130	-57.63	-13	-44.63	-79.45	-60.39	8.82	11.58	V
	8550	-51.85	-13	-38.85	-79.36	-51.46	11.49	11.10	V
									V
Middle	3474	-55.94	-13	-42.94	-73.35	-60.51	7.22	11.80	H
	5211	-57.47	-13	-44.47	-79.43	-60.50	8.89	11.92	H
	8676	-46.53	-13	-33.53	-74.12	-46.06	11.57	11.10	H
									H
	3474	-59.15	-13	-46.15	-76.51	-63.72	7.22	11.80	V
	5211	-57.09	-13	-44.09	-78.98	-60.12	8.89	11.92	V
	8676	-47.82	-13	-34.82	-75.25	-47.35	11.57	11.10	V
									V
Highest	3522	-55.39	-13	-42.39	-72.92	-60.01	7.28	11.90	H
	7044	-52.54	-13	-39.54	-78.36	-53.35	10.41	11.22	H
	8802	-44.45	-13	-31.45	-72.32	-43.90	11.65	11.10	H
									H
	3522	-56.10	-13	-43.10	-73.53	-60.72	7.28	11.90	V
	7044	-50.52	-13	-37.52	-77.03	-51.33	10.41	11.22	V
	8802	-44.36	-13	-31.36	-71.64	-43.81	11.65	11.10	V
									V

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



EN-DC 2A-n77A

EN-DC 2A-n77A/ 100MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	7500	-53.55	-13	-40.55	-80.49	-54.30	10.75	11.50	H
	11250	-51.86	-13	-38.86	-81.47	-50.80	13.26	12.20	H
	15000	-50.61	-13	-37.61	-81.46	-49.52	15.39	14.30	H
	18750	-62.89	-13	-49.89	-74.61	-63.21	17.38	17.70	H
	22500	-63.20	-13	-50.20	-79.5	-61.67	19.13	17.60	H
	26250	-60.37	-13	-47.37	-80.17	-59.00	20.67	19.30	H
									H
	7500	-53.91	-13	-40.91	-81.05	-54.66	10.75	11.50	V
	11250	-52.31	-13	-39.31	-81.56	-51.25	13.26	12.20	V
	15000	-50.72	-13	-37.72	-81.42	-49.63	15.39	14.30	V
	18750	-63.11	-13	-50.11	-75.06	-63.43	17.38	17.70	V
	22500	-63.00	-13	-50.00	-79.38	-61.47	19.13	17.60	V
	26250	-60.14	-13	-47.14	-80.15	-58.77	20.67	19.30	V
									V
Middle	7680	-46.59	-13	-33.59	-73.88	-47.19	10.88	11.48	H
	11520	-51.92	-13	-38.92	-81.58	-50.93	13.43	12.44	H
	15360	-50.60	-13	-37.60	-81.54	-50.19	15.63	15.22	H
	19200	-59.63	-13	-46.63	-72.42	-59.83	17.58	17.78	H
	23040	-63.21	-13	-50.21	-79.9	-61.32	19.45	17.56	H
	26880	-60.05	-13	-47.05	-80.54	-57.81	21.11	18.86	H
									H
	7680	-46.61	-13	-33.61	-74.13	-47.21	10.88	11.48	V
	11520	-52.24	-13	-39.24	-81.57	-51.25	13.43	12.44	V
	15360	-51.03	-13	-38.03	-81.77	-50.62	15.63	15.22	V
	19200	-62.69	-13	-49.69	-75.75	-62.89	17.58	17.78	V
	23040	-62.66	-13	-49.66	-79.55	-60.77	19.45	17.56	V
	26880	-59.66	-13	-46.66	-80.42	-57.42	21.11	18.86	V
									V



EN-DC 2A-n77A/ 100MHz / BPSK									
Channel	Frequency (MHz)	ERP (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	7860	-48.16	-13	-35.16	-75.66	-48.34	11.02	11.20	H
	11790	-52.03	-13	-39.03	-81.77	-51.39	13.62	12.98	H
	15720	-51.05	-13	-38.05	-81.95	-51.23	15.84	16.02	H
	19650	-60.86	-13	-47.86	-74.8	-61.28	17.84	18.26	H
	23580	-62.63	-13	-49.63	-79.57	-60.93	19.66	17.96	H
	27510	-59.98	-13	-46.98	-80.98	-58.36	21.31	19.69	H
									H
	7860	-47.97	-13	-34.97	-75.56	-48.15	11.02	11.20	V
	11790	-52.18	-13	-39.18	-81.47	-51.54	13.62	12.98	V
	15720	-50.85	-13	-37.85	-81.52	-51.03	15.84	16.02	V
	19650	-61.96	-13	-48.96	-75.9	-62.38	17.84	18.26	V
	23580	-63.52	-13	-50.52	-80.46	-61.82	19.66	17.96	V
	27510	-61.40	-13	-48.40	-82.41	-59.78	21.31	19.69	V
									V

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



EN-DC 66A-n77A

EN-DC 66A-n77A/ 100MHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7680	-46.48	-13	-33.48	-73.77	-47.08	10.88	11.48	H
	11520	-51.65	-13	-38.65	-81.31	-50.66	13.43	12.44	H
	15360	-50.42	-13	-37.42	-81.36	-50.01	15.63	15.22	H
	19200	-58.94	-13	-45.94	-71.69	-59.14	17.58	17.78	H
	23040	-63.24	-13	-50.24	-79.93	-61.35	19.45	17.56	H
	26880	-60.52	-13	-47.52	-81.03	-58.28	21.11	18.86	H
									H
	7680	-47.34	-13	-34.34	-74.86	-47.94	10.88	11.48	V
	11520	-51.85	-13	-38.85	-81.18	-50.86	13.43	12.44	V
	15360	-50.59	-13	-37.59	-81.33	-50.18	15.63	15.22	V
	19200	-59.86	-13	-46.86	-72.92	-60.06	17.58	17.78	V
	23040	-63.29	-13	-50.29	-80.18	-61.40	19.45	17.56	V
	26880	-60.25	-13	-47.25	-81	-58.01	21.11	18.86	V
									V

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