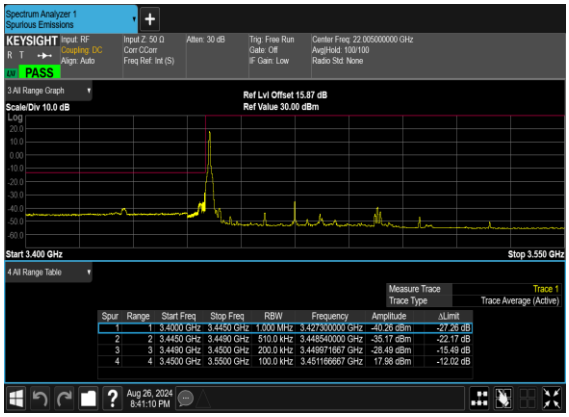
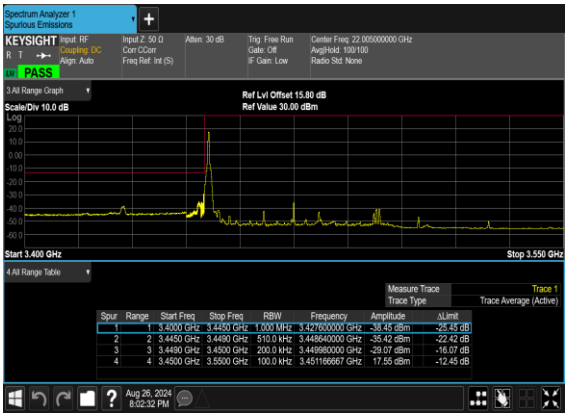
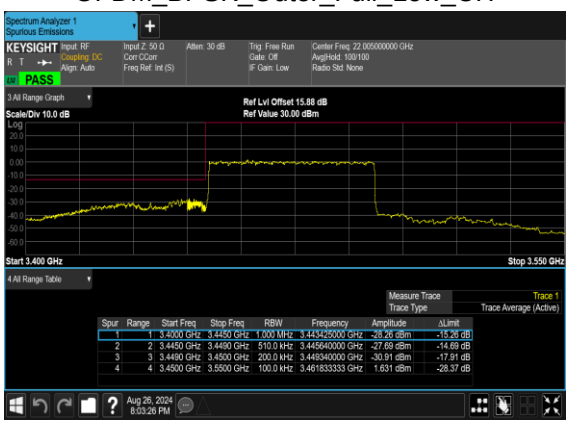
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



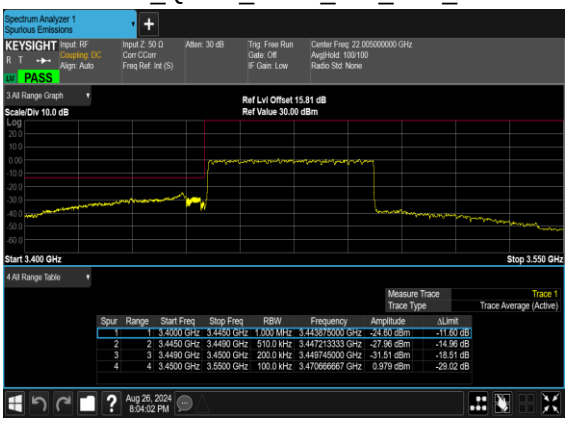
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



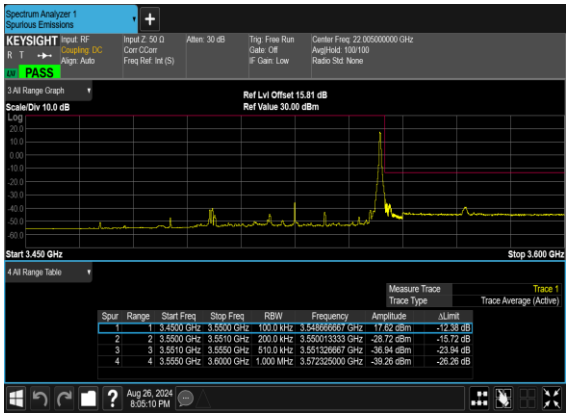
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



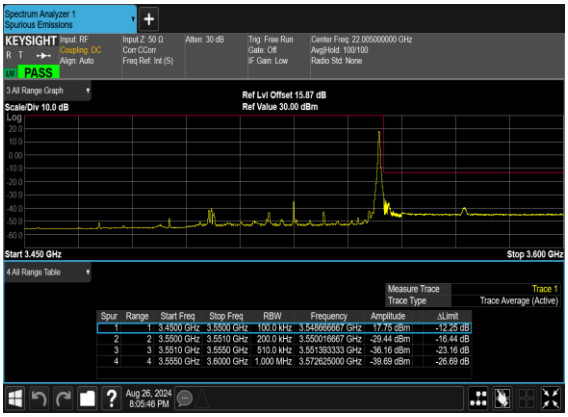
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



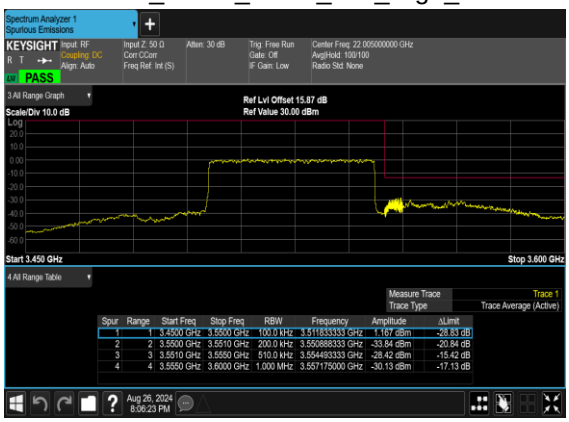
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



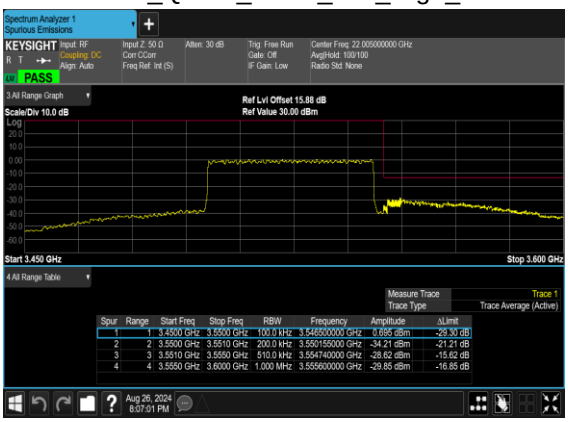
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



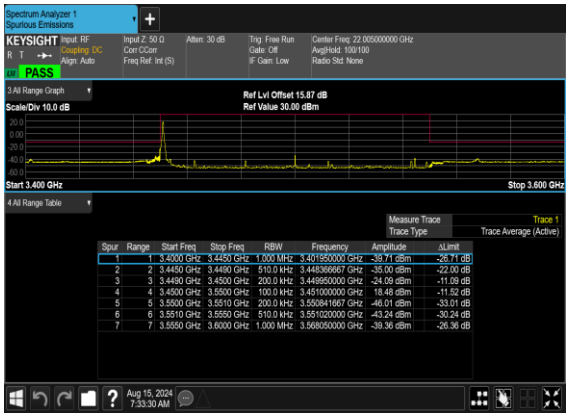
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



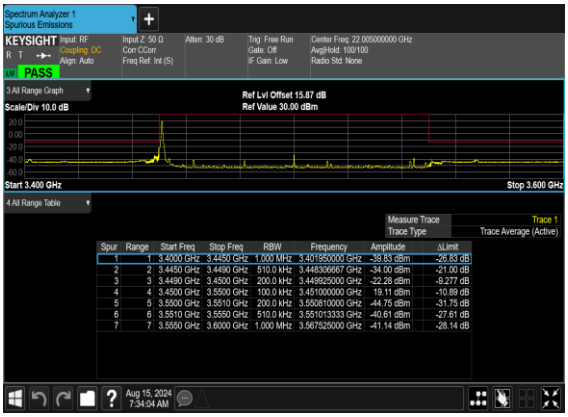
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



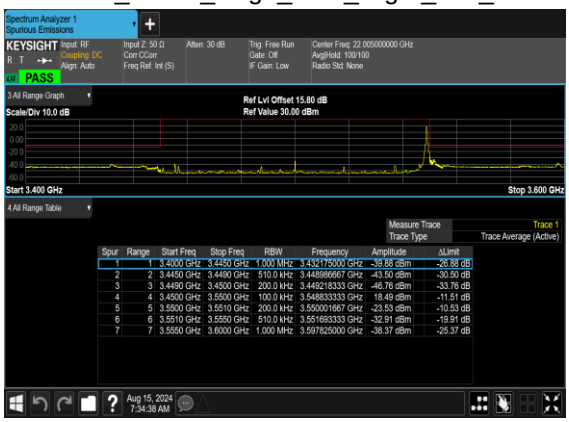
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



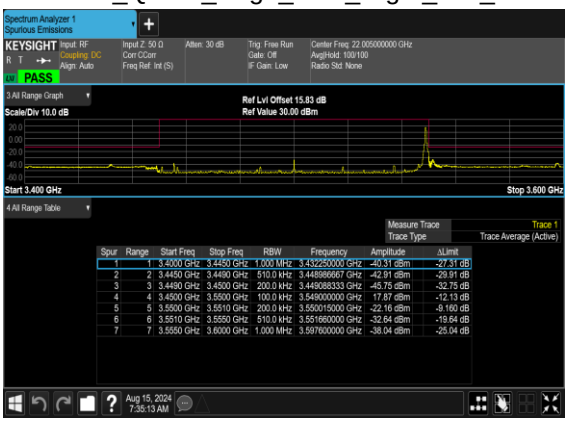
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



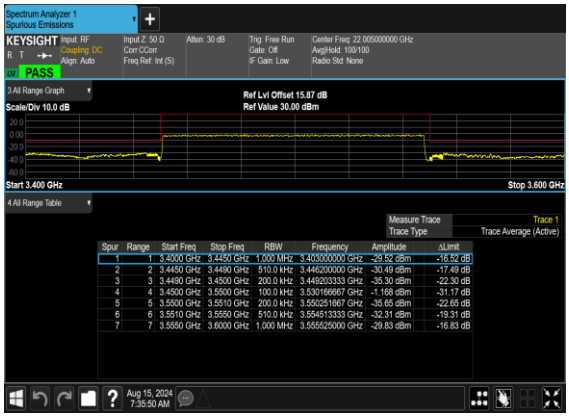
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



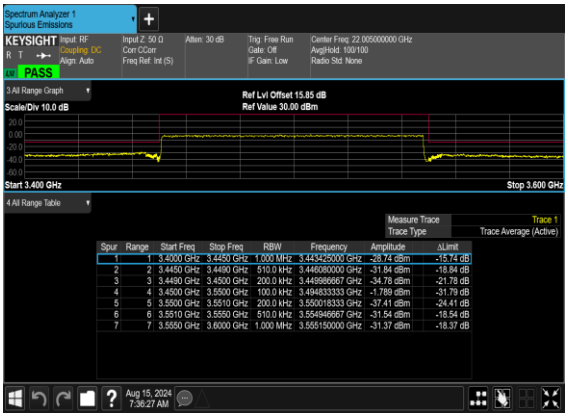
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 23.06.1602

FR1 N78

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.19	24.19	0.2624
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.25	23.25	0.2113
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.15	24.15	0.2600
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.12	24.12	0.2582
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.17	23.17	0.2075
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	26.09	24.09	0.2564
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.22	24.22	0.2642
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.24	23.24	0.2109
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.15	24.15	0.2600
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.09	24.09	0.2564

78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
78	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	26.18	24.18	0.2618
78	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	25.23	23.23	0.2104
78	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.13	24.13	0.2588
78	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.19	23.19	0.2084
78	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	26.08	24.08	0.2559
78	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	25.11	23.11	0.2046
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.11	24.11	0.2576
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.15	24.15	0.2600
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.2	23.2	0.2089
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.21	24.21	0.2636
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.12	24.12	0.2582
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.16	24.16	0.2606
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.2	23.2	0.2089
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.1	24.1	0.2570
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.12	23.12	0.2051
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.03	24.03	0.2529
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.12	23.12	0.2051

78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.13	24.13	0.2588
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.2	23.2	0.2089
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26	24	0.2512
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.1	23.1	0.2042
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.06	24.06	0.2547
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.11	23.11	0.2046
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.09	24.09	0.2564
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.14	23.14	0.2061
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.08	24.08	0.2559
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.17	23.17	0.2075
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.12	24.12	0.2582
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.14	23.14	0.2061
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.18	24.18	0.2618
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.23	23.23	0.2104
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	26.24	24.24	0.2655
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	25.33	23.33	0.2153
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.18	24.18	0.2618
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.21	23.21	0.2094
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.23	23.23	0.2104
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.2	24.2	0.2630

78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.25	23.25	0.2113
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.11	24.11	0.2576
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.18	23.18	0.2080
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.12	24.12	0.2582
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.16	24.16	0.2606
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.23	23.23	0.2104
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.25	24.25	0.2661
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.14	24.14	0.2594
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.04	24.04	0.2535
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.23	24.23	0.2649
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.13	24.13	0.2588
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.99	23.99	0.2506
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.28	23.28	0.2128
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.14	23.14	0.2061
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	25.07	23.07	0.2028
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.84	21.84	0.1528
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.82	21.82	0.1521
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.6	21.6	0.1445
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.91	19.91	0.0979
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.65	19.65	0.0923

78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.55	19.55	0.0902
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.71	22.71	0.1866
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.54	22.54	0.1795
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.46	22.46	0.1762

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25℃
		Relative Humidity :	48~52%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

SA n77 / NR 100MHz / QPSK / ANT4									
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)
Middle	6902.42	-54.25	-13	-41.25	-61.71	-57.55	8.30	11.60	H
	10353.63	-55.94	-13	-42.94	-67.96	-57.46	10.48	12.00	H
	13804.84	-53.88	-13	-40.88	-69.73	-55.58	11.80	13.50	H
	6902.42	-55.47	-13	-42.47	-64.21	-58.77	8.30	11.60	V
	10353.63	-54.08	-13	-41.08	-67.9	-55.60	10.48	12.00	V
	13804.84	-55.20	-13	-42.20	-69.86	-56.90	11.80	13.50	V

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

EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT2 (LTE) & ANT4(NR)									
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)
NR n77 Middle	6902.42	-54.69	-13	-41.69	-62.15	-57.99	8.30	11.60	H
	10353.63	-55.96	-13	-42.96	-67.98	-57.48	10.48	12.00	H
	13804.84	-53.73	-13	-40.73	-69.58	-55.43	11.80	13.50	H
	6902.42	-55.40	-13	-42.40	-64.14	-58.70	8.30	11.60	V
	10353.63	-53.51	-13	-40.51	-67.33	-55.03	10.48	12.00	V
	13804.84	-55.23	-13	-42.23	-69.89	-56.93	11.80	13.50	V
LTE Band30 Middle	4611.00	-57.84	-40	-17.84	-62.79	-64.09	6.45	12.70	H
	6916.50	-53.57	-40	-13.57	-61.07	-56.97	8.40	11.80	H
	9222.00	-58.93	-40	-18.93	-68.45	-61.28	9.65	12.00	H
	4611.00	-58.28	-40	-18.28	-63.36	-64.53	6.45	12.70	V
	6916.50	-52.57	-40	-12.57	-61.17	-55.97	8.40	11.80	V
	9222.00	-55.72	-40	-15.72	-67.47	-58.07	9.65	12.00	V

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