



4.6 MAXIMUM PEAK OUTPUT POWER

4.6.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.6.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100037	Aug. 09, 2008	Aug. 08, 2009

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

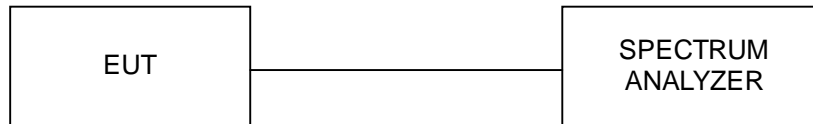
4.6.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.6.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.6.7 TEST RESULTS

For PR-ASK(DRM) – High Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	625.173	27.96	30	PASS
24	914.75	484.172	26.85	30	PASS
49	927.25	459.198	26.62	30	PASS

Channel 0



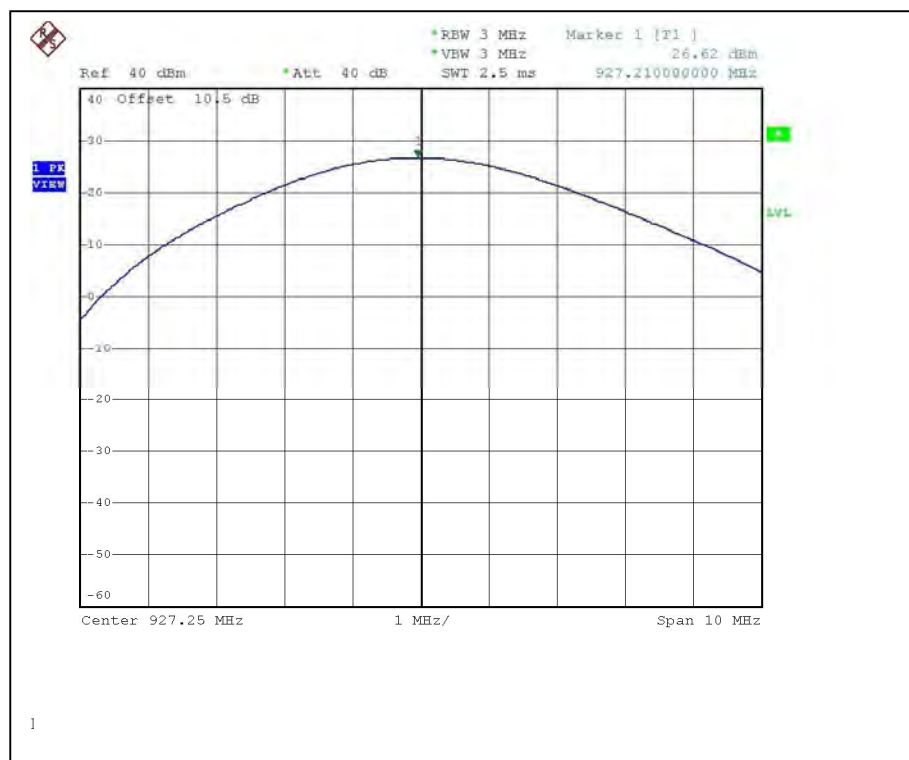


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Channel 24



Channel 49





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For PR-ASK(DRM) – Low Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	338.065	25.29	30	PASS
24	914.75	240.991	23.82	30	PASS
49	927.25	203.704	23.09	30	PASS

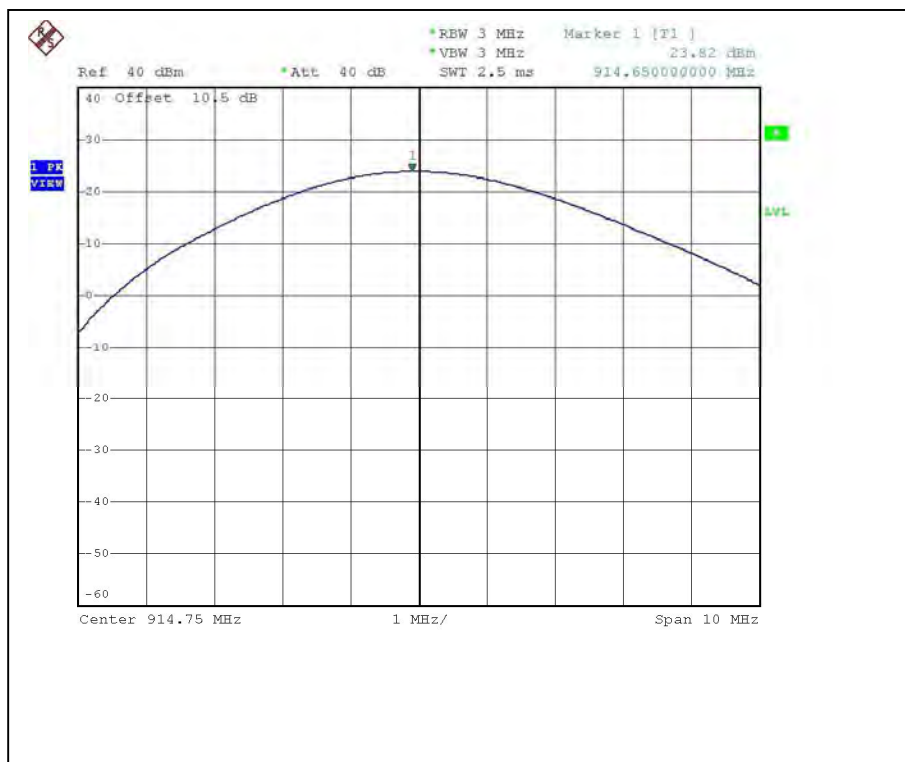
Channel 0





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Channel 24



Channel 49





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For DSB-ASK(MRM) – High Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	717.794	28.56	30	PASS
24	914.75	779.830	28.92	30	PASS
49	927.25	776.247	28.90	30	PASS

Channel 0





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Channel 24



Channel 49





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For DSB-ASK(MRM) – Low Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	14.028	11.47	30	PASS
24	914.75	9.506	9.78	30	PASS
49	927.25	9.162	9.62	30	PASS

Channel 0





A D T

Channel 24



Channel 49





For PR-ASK(XRM) – High Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	760.326	28.81	30	PASS
24	914.75	770.903	28.87	30	PASS
49	927.25	826.038	29.17	30	PASS

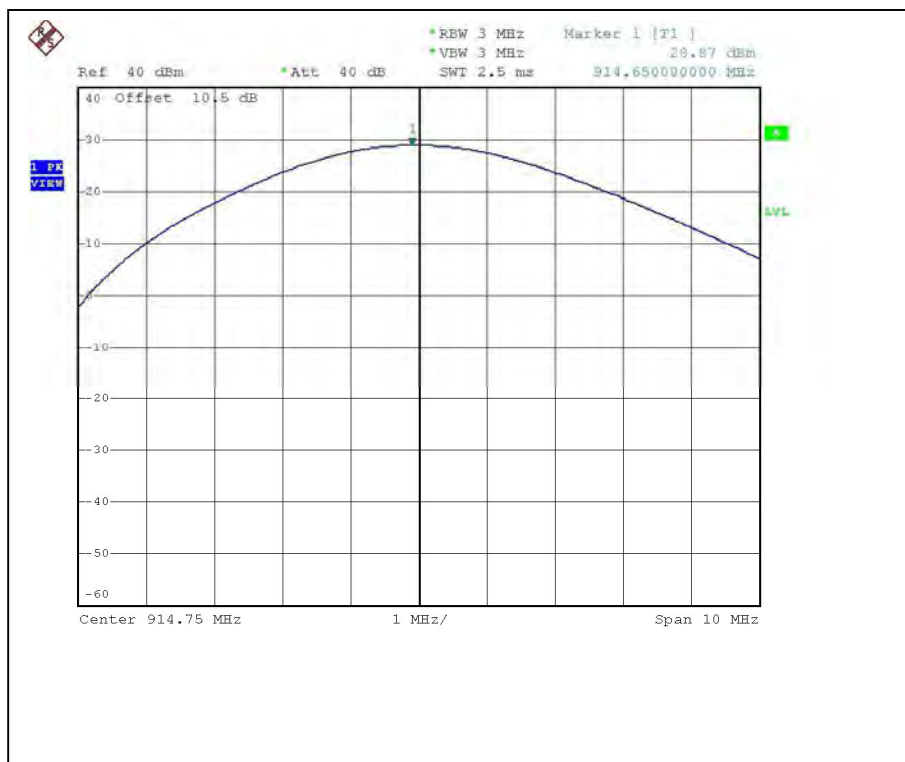
Channel 0





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Channel 24



Channel 49





A D T

For PR-ASK(XRM) – Low Power:

ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 965 hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	902.75	12.735	11.05	30	PASS
24	914.75	9.661	9.85	30	PASS
49	927.25	11.695	10.68	30	PASS

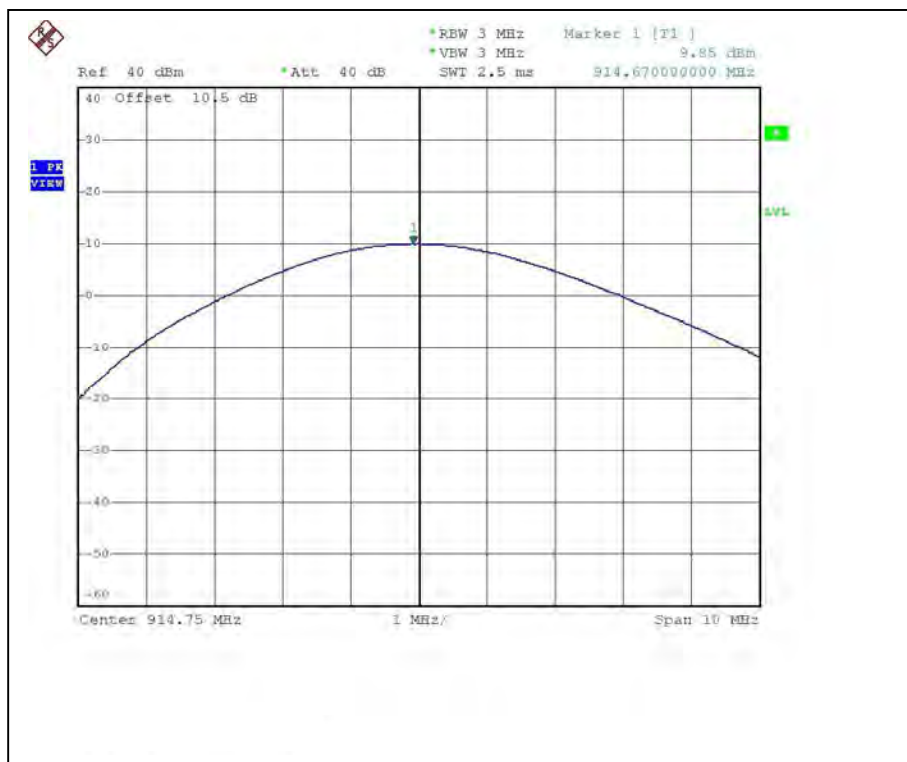
Channel 0



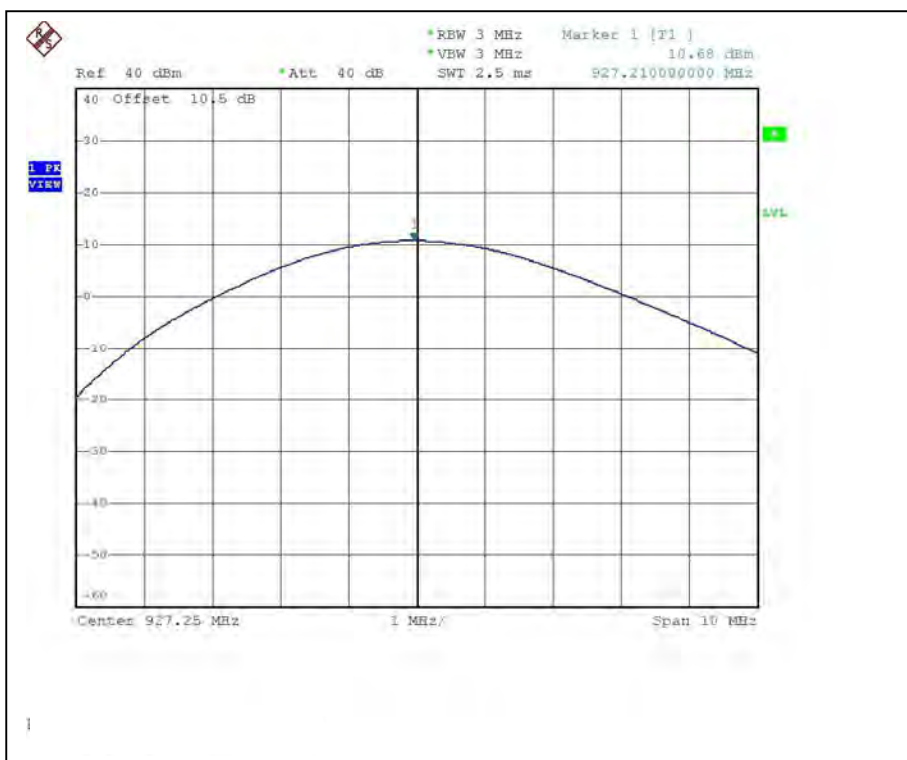


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Channel 24



Channel 49



4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 9, 2008	Dec. 8, 2009
HP Pre_Amplifier	8449B	3008A01923	Nov. 10, 2008	Nov. 9, 2009
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 9, 2008	Sep. 8, 2009
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	April 30, 2008	April 29, 2009
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 09, 2008	Dec. 08, 2009
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2009	Jan. 21, 2010
R&S Loop Antenna	HFH2-Z2	100070	Jan. 14, 2008	Jan. 13, 2010
RF Switches	EMH-011	08009	Oct. 07, 2008	Oct. 06, 2009
RF CABLE (Chaintek)	Sucoflex 106	28077	Aug. 15, 2008	Aug. 14, 2009
RF Cable	8DFB	STCCAB-30M-1GHz	Oct. 07, 2008	Oct. 06, 2009
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in Open Site No. C.

4. The FCC Site Registration No. is 656396.

5. The VCCI Site Registration No. is R-1626.

6. The CANADA Site Registration No. is IC 7450G-3.

4.7.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

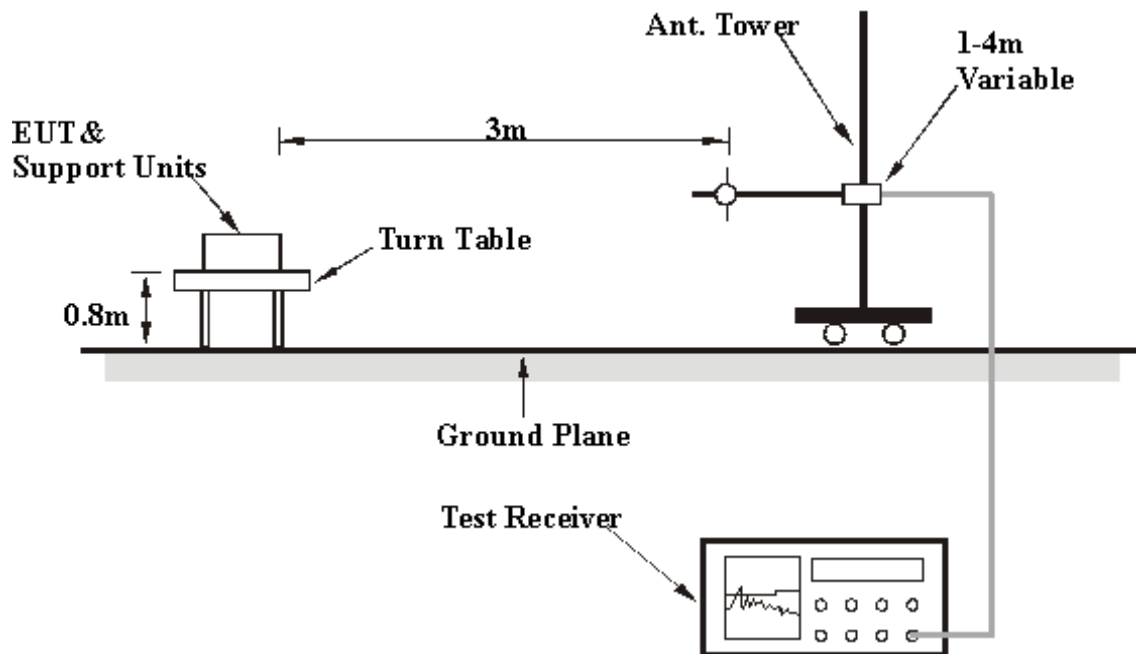
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz.

4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.7.6 TEST RESULTS

For PR-ASK(DRM) – High Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.99	25.64 QP	43.50	-17.86	1.02 H	169	12.66	12.98
2	299.97	25.87 QP	46.00	-20.13	1.79 H	198	8.85	17.02
3	400.01	25.14 QP	46.00	-20.86	1.23 H	65	4.00	21.14
4	600.00	25.89 QP	46.00	-20.11	1.08 H	9	1.12	24.77
5	625.00	31.23 QP	46.00	-14.77	1.31 H	323	5.89	25.34
6	750.00	27.60 QP	46.00	-18.40	1.08 H	7	-0.86	28.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.99	28.41 QP	43.50	-15.09	1.17 V	306	15.43	12.98
2	400.01	32.64 QP	46.00	-13.36	1.63 V	23	11.50	21.14
3	499.96	29.93 QP	46.00	-16.07	1.02 V	223	7.27	22.66
4	625.00	32.70 QP	46.00	-13.30	1.99 V	207	7.36	25.34
5	749.91	36.00 QP	46.00	-10.00	1.02 V	85	7.54	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	57.64 PK	103.25	-45.61	2.20 H	82	26.60	31.04
	2	902.00	44.14 AV	100.15	-56.01	2.20 H	82	13.10	31.04
	3	*902.75	123.25 PK			2.20 H	89	92.20	31.05
	4	*902.75	120.15 AV			2.20 H	89	89.10-	31.05
24	1	*914.75	127.64 PK			1.35 H	139	96.40	31.24
	2	*914.75	125.04 AV			1.35 H	139	93.80	31.24
49	1	*927.25	123.84 PK			1.32 H	141	92.40	31.44
	2	*927.25	121.24 AV			1.32 H	141	89.80	31.44
	3	928.00	58.05 PK	103.84	-45.79	1.32 H	141	26.60	31.45
	4	928.00	44.05 AV	101.24	-57.19	1.32 H	141	12.60	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	52.94 PK	98.75	-45.81	2.09 V	172	21.90	31.04
	2	902.00	39.54 AV	95.35	-55.81	2.09 V	172	8.50	31.04
	3	*902.75	118.75 PK			2.15 V	158	87.70	31.05
	4	*902.75	115.35 AV			2.15 V	158	84.30	31.05
24	1	*914.75	116.94 PK			1.36 V	147	88.60	31.24
	2	*914.75	120.15 AV			1.36 V	147	85.70	31.24
49	1	*927.25	119.54 PK			1.33 V	155	88.10	31.44
	2	*927.25	116.74 AV			1.33 V	155	85.30	31.44
	3	928.00	53.65 PK	99.54	-45.89	1.33 V	155	22.20	31.45
	4	928.00	40.35 AV	96.74	-56.39	1.33 V	155	8.90	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	39.04 PK	74.00	-34.96	1.58 H	160	7.96	31.08
2	2708.25	36.16 AV	54.00	-17.84	1.58 H	160	5.08	31.08
3	3611.00	42.12 PK	74.00	-31.88	1.12 H	178	9.52	32.60
4	3611.00	32.41 AV	54.00	-21.59	1.12 H	178	-0.19	32.60
5	4513.75	43.69 PK	74.00	-30.31	1.35 H	152	8.75	34.94
6	4513.75	33.59 AV	54.00	-20.41	1.35 H	152	-1.35	34.94
7	5416.50	45.59 PK	74.00	-28.41	1.46 H	131	9.16	36.43
8	5416.50	33.49 AV	54.00	-20.51	1.46 H	131	-2.94	36.43
9	8124.75	52.99 PK	74.00	-21.01	1.57 H	207	9.69	43.30
10	8124.75	40.81 AV	54.00	-13.19	1.57 H	207	-2.49	43.30
11	9027.50	53.42 PK	74.00	-20.58	1.66 H	292	9.21	44.21
12	9027.50	41.43 AV	54.00	-12.57	1.66 H	292	-2.78	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	39.40 PK	74.00	-34.60	1.66 V	75	8.32	31.08
2	2708.25	35.24 AV	54.00	-18.76	1.66 V	75	4.16	31.08
3	3611.00	42.07 PK	74.00	-31.93	1.75 V	324	9.47	32.60
4	3611.00	32.34 AV	54.00	-21.66	1.75 V	324	-0.26	32.60
5	4513.75	44.27 PK	74.00	-29.73	1.59 V	21	9.33	34.94
6	4513.75	36.37 AV	54.00	-17.63	1.59 V	21	1.43	34.94
7	5416.50	45.98 PK	74.00	-28.02	1.43 V	76	9.55	36.43
8	5416.50	34.61 AV	54.00	-19.39	1.43 V	76	-1.82	36.43
9	8124.75	52.36 PK	74.00	-21.64	1.65 V	178	9.06	43.30
10	8124.75	40.73 AV	54.00	-13.27	1.65 V	178	-2.57	43.30
11	9027.50	53.48 PK	74.00	-20.52	1.16 V	39	9.27	44.21
12	9027.50	41.56 AV	54.00	-12.44	1.16 V	39	-2.65	44.21

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.17 PK	74.00	-34.83	1.48 H	265	7.99	31.18
2	2744.25	36.23 AV	54.00	-17.77	1.48 H	265	5.05	31.18
3	3659.00	41.86 PK	74.00	-32.14	1.55 H	169	9.13	32.73
4	3659.00	32.57 AV	54.00	-21.43	1.55 H	169	-0.16	32.73
5	4573.75	45.86 PK	74.00	-28.14	1.26 H	73	10.82	35.04
6	4573.75	34.23 AV	54.00	-19.77	1.26 H	73	-0.81	35.04
7	7318.00	51.07 PK	74.00	-22.93	1.38 H	85	9.01	42.06
8	7318.00	39.34 AV	54.00	-14.66	1.38 H	85	-2.72	42.06
9	8232.75	52.55 PK	74.00	-21.45	1.41 H	313	9.21	43.34
10	8232.75	41.00 AV	54.00	-13.00	1.41 H	313	-2.34	43.34
11	9147.50	53.46 PK	74.00	-20.54	1.26 H	241	9.02	44.44
12	9147.50	41.56 AV	54.00	-12.44	1.26 H	241	-2.88	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.28 PK	74.00	-34.72	1.63 V	213	8.10	31.18
2	2744.25	35.39 AV	54.00	-18.61	1.63 V	213	4.21	31.18
3	3659.00	41.51 PK	74.00	-32.49	1.72 V	305	8.78	32.73
4	3659.00	32.49 AV	54.00	-21.51	1.72 V	305	-0.24	32.73
5	4573.75	44.39 PK	74.00	-29.61	1.59 V	169	9.35	35.04
6	4573.75	36.70 AV	54.00	-17.30	1.59 V	169	1.66	35.04
7	7318.00	51.18 PK	74.00	-22.82	1.46 V	182	9.12	42.06
8	7318.00	39.46 AV	54.00	-14.54	1.46 V	182	-2.60	42.06
9	8232.75	52.39 PK	74.00	-21.61	1.57 V	75	9.05	43.34
10	8232.75	40.90 AV	54.00	-13.10	1.57 V	75	-2.44	43.34
11	9147.50	52.88 PK	74.00	-21.12	1.82 V	23	8.44	44.44
12	9147.50	41.63 AV	54.00	-12.37	1.82 V	23	-2.81	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.57 PK	74.00	-32.43	1.75 H	164	10.28	31.29
2	2781.75	36.01 AV	54.00	-17.99	1.75 H	164	4.72	31.29
3	3709.00	42.84 PK	74.00	-31.16	1.62 H	263	9.98	32.86
4	3709.00	32.66 AV	54.00	-21.34	1.62 H	263	-0.20	32.86
5	4636.25	44.92 PK	74.00	-29.08	1.13 H	185	9.77	35.15
6	4636.25	33.93 AV	54.00	-20.07	1.13 H	185	-1.22	35.15
7	7418.00	51.23 PK	74.00	-22.77	1.82 H	306	8.92	42.31
8	7418.00	39.90 AV	54.00	-14.10	1.82 H	306	-2.41	42.31
9	8345.25	51.71 PK	74.00	-22.29	1.91 H	51	8.34	43.37
10	8345.25	41.03 AV	54.00	-12.97	1.91 H	51	-2.34	43.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.77 PK	74.00	-32.23	1.65 V	167	10.48	31.29
2	2781.75	36.09 AV	54.00	-17.91	1.65 V	167	4.80	31.29
3	3709.00	43.11 PK	74.00	-30.89	1.73 V	205	10.25	32.86
4	3709.00	32.79 AV	54.00	-21.21	1.73 V	205	-0.07	32.86
5	4636.25	45.23 PK	74.00	-28.77	1.65 V	38	10.08	35.15
6	4636.25	36.86 AV	54.00	-17.14	1.65 V	38	1.71	35.15
7	7418.00	51.90 PK	74.00	-22.10	1.42 V	119	9.59	42.31
8	7418.00	39.76 AV	54.00	-14.24	1.42 V	119	-2.55	42.31
9	8345.25	52.05 PK	74.00	-21.95	1.80 V	225	8.68	43.37
10	8345.25	40.90 AV	54.00	-13.10	1.80 V	225	-2.47	43.37

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



For PR-ASK(DRM) – Low Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.10	25.12 QP	43.50	-18.38	1.65 H	329	12.14	12.98
2	299.98	25.45 QP	46.00	-20.55	1.33 H	207	8.43	17.02
3	400.00	26.00 QP	46.00	-20.00	1.20 H	307	4.86	21.14
4	599.97	25.20 QP	46.00	-20.80	1.68 H	95	0.43	24.77
5	624.99	30.23 QP	46.00	-15.77	2.00 H	8	4.89	25.34
6	750.00	28.10 QP	46.00	-17.90	1.54 H	84	-0.36	28.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.00	28.40 QP	43.50	-15.10	1.20 V	32	15.42	12.98
2	400.00	32.41 QP	46.00	-13.59	1.02 V	55	11.27	21.14
3	499.99	29.70 QP	46.00	-16.30	1.69 V	93	7.04	22.66
4	625.01	32.71 QP	46.00	-13.29	2.05 V	236	7.37	25.34
5	749.97	36.12 QP	46.00	-9.88	1.32 V	63	7.66	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	56.54 PK	101.25	-44.71	2.19 H	89	25.50	31.04
	2	902.00	42.44 AV	98.15	-55.71	2.19 H	89	11.40	31.04
	3	*902.75	121.25 PK			2.20 H	82	90.20	31.05
	4	*902.75	118.15 AV			2.20 H	82	87.10	31.05
24	1	*914.75	124.84 PK			1.36 H	140	93.60	31.24
	2	*914.75	121.74 AV			1.36 H	140	90.50	31.24
49	1	*927.25	123.64 PK			1.31 H	141	92.20	31.44
	2	*927.25	120.54 AV			1.31 H	141	89.10	31.44
	3	928.00	57.35 PK	103.64	-46.29	1.31 H	141	25.90	31.45
	4	928.00	43.75 AV	100.54	-56.79	1.31 H	141	12.30	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	51.24 PK	96.55	-45.31	2.08 V	288	20.20	31.04
	2	902.00	38.34 AV	93.15	-54.81	2.08 V	288	7.30	31.04
	3	*902.75	116.55 PK			2.15 V	161	85.50	31.05
	4	*902.75	113.15 AV			2.15 V	161	82.10	31.05
24	1	*914.75	114.94 PK			1.37 V	148	83.70	31.24
	2	*914.75	111.64 AV			1.37 V	148	80.40	31.24
49	1	*927.25	116.74 PK			1.34 V	154	85.30	31.44
	2	*927.25	113.64 AV			1.34 V	154	82.20	31.44
	3	928.00	52.15 PK	96.74	-44.59	1.34 V	154	20.70	31.45
	4	928.00	37.85 AV	93.64	-55.79	1.34 V	154	6.40	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



A D T

CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	40.30 PK	74.00	-33.70	1.64 H	157	9.22	31.08
2	2708.25	28.66 AV	54.00	-25.34	1.64 H	157	-2.42	31.08
3	3611.00	42.81 PK	74.00	-31.19	1.48 H	269	10.21	32.60
4	3611.00	29.67 AV	54.00	-24.33	1.48 H	269	-2.93	32.60
5	4513.75	46.32 PK	74.00	-27.68	1.30 H	232	11.38	34.94
6	4513.75	33.65 AV	54.00	-20.35	1.30 H	232	-1.29	34.94
7	5416.50	48.24 PK	74.00	-25.76	1.27 H	304	11.81	36.43
8	5416.50	34.03 AV	54.00	-19.97	1.27 H	304	-2.40	36.43
9	8124.75	54.33 PK	74.00	-19.67	1.59 H	312	11.03	43.30
10	8124.75	40.98 AV	54.00	-13.02	1.59 H	312	-2.32	43.30
11	9027.50	54.94 PK	74.00	-19.06	1.23 H	29	10.73	44.21
12	9027.50	41.54 AV	54.00	-12.46	1.23 H	29	-2.67	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	40.90 PK	74.00	-33.10	1.84 V	23	9.82	31.08
2	2708.25	28.90 AV	54.00	-25.10	1.84 V	23	-2.18	31.08
3	3611.00	43.14 PK	74.00	-30.86	1.40 V	125	10.54	32.60
4	3611.00	29.97 AV	54.00	-24.03	1.40 V	125	-2.63	32.60
5	4513.75	45.62 PK	74.00	-28.38	1.51 V	213	10.68	34.94
6	4513.75	33.00 AV	54.00	-21.00	1.51 V	213	-1.94	34.94
7	5416.50	47.33 PK	74.00	-26.67	1.53 V	324	10.90	36.43
8	5416.50	34.26 AV	54.00	-19.74	1.53 V	324	-2.17	36.43
9	8124.75	54.27 PK	74.00	-19.73	1.42 V	29	10.97	43.30
10	8124.75	40.89 AV	54.00	-13.11	1.42 V	29	-2.41	43.30
11	9027.50	54.63 PK	74.00	-19.37	1.37 V	23	10.42	44.21
12	9027.50	41.59 AV	54.00	-12.41	1.37 V	23	-2.62	44.21

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.50	41.60 PK	74.00	-32.40	1.65 H	159	10.42	31.18
2	2744.50	28.90 AV	54.00	-25.10	1.65 H	159	-2.28	31.18
3	3659.00	42.92 PK	74.00	-31.08	1.41 H	243	10.19	32.73
4	3659.00	29.68 AV	54.00	-24.32	1.41 H	243	-3.05	32.73
5	4573.75	47.41 PK	74.00	-26.59	1.29 H	231	12.37	35.04
6	4573.75	33.84 AV	54.00	-20.16	1.29 H	231	-1.20	35.04
7	7318.00	49.33 PK	74.00	-24.67	1.24 H	303	7.27	42.06
8	7318.00	39.70 AV	54.00	-14.30	1.24 H	303	-2.36	42.06
9	8232.75	55.27 PK	74.00	-18.73	1.51 H	300	11.93	43.34
10	8232.75	40.96 AV	54.00	-13.04	1.51 H	300	-2.38	43.34
11	9147.50	55.62 PK	74.00	-18.38	1.20 H	212	11.18	44.44
12	9147.50	41.50 AV	54.00	-12.50	1.20 H	212	-2.94	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	41.20 PK	74.00	-32.80	1.79 V	29	10.02	31.18
2	2744.25	28.69 AV	54.00	-25.31	1.79 V	29	-2.49	31.18
3	3659.00	42.30 PK	74.00	-31.70	1.38 V	124	9.57	32.73
4	3659.00	29.34 AV	54.00	-24.66	1.38 V	124	-3.39	32.73
5	4573.75	45.74 PK	74.00	-28.26	1.42 V	219	10.70	35.04
6	4573.75	33.20 AV	54.00	-20.80	1.42 V	219	-1.84	35.04
7	7318.00	47.98 PK	74.00	-26.02	1.57 V	327	5.92	42.06
8	7318.00	39.68 AV	54.00	-14.32	1.57 V	327	-2.38	42.06
9	8232.75	54.31 PK	74.00	-19.69	1.36 V	28	10.97	43.34
10	8232.75	40.79 AV	54.00	-13.21	1.36 V	28	-2.55	43.34
11	9147.50	54.82 PK	74.00	-19.18	1.29 V	29	10.38	44.44
12	9147.50	41.90 AV	54.00	-12.10	1.29 V	29	-2.54	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.60 PK	74.00	-32.40	1.65 H	159	10.31	31.29
2	2781.75	28.90 AV	54.00	-25.10	1.65 H	159	-2.39	31.29
3	3709.00	42.33 PK	74.00	-31.67	1.47 H	268	9.47	32.86
4	3709.00	29.70 AV	54.00	-24.30	1.47 H	268	-3.16	32.86
5	4636.25	48.44 PK	74.00	-25.56	1.31 H	242	13.29	35.15
6	4636.25	33.63 AV	54.00	-20.37	1.31 H	242	-1.52	35.15
7	7418.00	49.61 PK	74.00	-24.39	1.25 H	303	7.30	42.31
8	7418.00	39.98 AV	54.00	-14.02	1.25 H	303	-2.33	42.31
9	8345.25	55.29 PK	74.00	-18.71	1.54 H	324	11.92	43.37
10	8345.25	41.34 AV	54.00	-12.66	1.54 H	324	-2.03	43.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.30 PK	74.00	-32.70	1.84 V	31	10.01	31.29
2	2781.75	28.64 AV	54.00	-25.36	1.84 V	31	-2.65	31.29
3	3709.00	42.67 PK	74.00	-31.33	1.36 V	124	9.81	32.86
4	3709.00	29.61 AV	54.00	-24.39	1.36 V	124	-3.25	32.86
5	4636.25	45.73 PK	74.00	-28.27	1.27 V	213	10.58	35.15
6	4636.25	33.54 AV	54.00	-20.46	1.27 V	213	-1.61	35.15
7	7418.00	47.29 PK	74.00	-26.71	1.54 V	326	4.98	42.31
8	7418.00	39.90 AV	54.00	-14.10	1.54 V	326	-2.41	42.31
9	8345.25	54.28 PK	74.00	-19.72	1.39 V	24	10.91	43.37
10	8345.25	40.66 AV	54.00	-13.34	1.39 V	24	-2.71	43.37

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



For DSB-ASK(MRM) – High Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.22	24.89 QP	43.50	-18.61	1.39 H	19	11.90	12.99
2	300.09	25.02 QP	46.00	-20.98	1.25 H	220	8.00	17.02
3	399.94	26.02 QP	46.00	-19.98	1.11 H	18	4.88	21.14
4	597.98	25.24 QP	46.00	-20.76	1.39 H	17	0.51	24.73
5	627.27	29.60 QP	46.00	-16.40	1.80 H	194	4.21	25.39
6	751.13	26.32 QP	46.00	-19.68	1.37 H	106	-2.17	28.49

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.00	28.05 QP	43.50	-15.45	1.04 V	283	15.07	12.98
2	399.62	31.70 QP	46.00	-14.30	1.81 V	71	10.57	21.12
3	499.80	29.48 QP	46.00	-16.52	1.36 V	127	6.83	22.66
4	624.90	32.90 QP	46.00	-13.10	1.39 V	337	7.56	25.34
5	749.91	35.44 QP	46.00	-10.56	1.13 V	156	6.98	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	59.24 PK	101.65	-42.41	1.01 H	271	28.20	31.04
	2	902.00	45.84 AV	100.65	-54.81	1.01 H	271	14.80	31.04
	3	*902.75	121.65 PK			1.00 H	267	90.60	31.05
	4	*902.75	120.65 AV			1.00 H	267	89.60	31.05
24	1	*914.75	129.04 PK			1.36 H	138	97.80	31.24
	2	*914.75	126.74 AV			1.36 H	138	95.50	31.24
49	1	*927.25	127.64 PK			1.33 H	144	96.20	31.44
	2	*927.25	124.94 AV			1.33 H	144	83.50	31.44
	3	928.00	61.05 PK	107.64	-46.59	1.33 H	144	29.60	31.45
	4	928.00	47.55 AV	104.94	-57.39	1.33 H	144	16.10	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	55.04 PK	97.25	-42.21	1.48 V	152	24.00	31.04
	2	902.00	39.94 AV	96.25	-56.31	1.48 V	152	8.90	31.04
	3	*902.75	117.25 PK			1.00 V	137	86.20	31.05
	4	*902.75	116.25 AV			1.00 V	137	85.20	31.05
24	1	*914.75	121.44 PK			1.38 V	148	90.20	31.24
	2	*914.75	118.94 AV			1.38 V	148	87.70	31.24
49	1	*927.25	121.34 PK			1.34 V	154	89.90	31.44
	2	*927.25	118.84 AV			1.34 V	154	87.40	31.44
	3	928.00	56.65 PK	101.34	-44.69	1.34 V	154	25.20	31.45
	4	928.00	42.35 AV	98.84	-56.49	1.34 V	154	10.90	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



A D T

CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	42.63 PK	74.00	-31.37	1.60 H	153	11.55	31.08
2	2708.25	42.13 AV	54.00	-11.87	1.60 H	153	11.05	31.08
3	3611.00	45.84 PK	74.00	-28.16	1.54 H	258	13.24	32.60
4	3611.00	32.92 AV	54.00	-21.08	1.54 H	258	0.32	32.60
5	4513.75	47.11 PK	74.00	-26.89	1.44 H	288	12.17	34.94
6	4513.75	34.26 AV	54.00	-19.74	1.44 H	288	-0.68	34.94
7	5416.50	48.59 PK	74.00	-25.41	1.37 H	305	12.16	36.43
8	5416.50	33.89 AV	54.00	-20.11	1.37 H	305	-2.54	36.43
9	8124.75	53.80 PK	74.00	-20.20	1.63 H	348	10.50	43.30
10	8124.75	40.83 AV	54.00	-13.17	1.63 H	348	-2.47	43.30
11	9027.50	54.28 PK	74.00	-19.72	1.69 H	72	10.07	44.21
12	9027.50	41.51 AV	54.00	-12.49	1.69 H	72	-2.70	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	41.81 PK	74.00	-32.19	1.87 V	0	10.73	31.08
2	2708.25	37.83 AV	54.00	-16.17	1.87 V	0	6.75	31.08
3	3611.00	44.38 PK	74.00	-29.62	1.39 V	111	11.78	32.60
4	3611.00	32.71 AV	54.00	-21.29	1.39 V	111	0.11	32.60
5	4513.75	46.70 PK	74.00	-27.30	1.56 V	303	11.76	34.94
6	4513.75	37.02 AV	54.00	-16.98	1.56 V	303	2.08	34.94
7	5416.50	47.58 PK	74.00	-26.42	1.55 V	302	11.15	36.43
8	5416.50	36.11 AV	54.00	-17.89	1.55 V	302	-0.32	36.43
9	8124.75	54.54 PK	74.00	-19.46	1.45 V	0	11.24	43.30
10	8124.75	40.87 AV	54.00	-13.13	1.45 V	0	-2.43	43.30
11	9027.50	54.24 PK	74.00	-19.76	1.42 V	4	10.03	44.21
12	9027.50	41.50 AV	54.00	-12.50	1.42 V	4	-2.71	44.21

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	41.99 PK	74.00	-32.01	1.62 H	176	10.81	31.18
2	2744.25	41.24 AV	54.00	-12.76	1.62 H	176	10.06	31.18
3	3659.00	43.31 PK	74.00	-30.69	1.52 H	273	10.58	32.73
4	3659.00	32.99 AV	54.00	-21.01	1.52 H	273	0.26	32.73
5	4573.75	45.57 PK	74.00	-28.43	1.43 H	186	10.53	35.04
6	4573.75	34.54 AV	54.00	-19.46	1.43 H	186	-0.50	35.04
7	7318.00	52.64 PK	74.00	-21.36	1.41 H	301	10.58	42.06
8	7318.00	39.99 AV	54.00	-14.01	1.41 H	301	-2.07	42.06
9	8232.75	54.40 PK	74.00	-19.60	1.54 H	291	11.06	43.34
10	8232.75	41.25 AV	54.00	-12.75	1.54 H	291	-2.09	43.34
11	9147.50	54.61 PK	74.00	-19.39	1.53 H	55	10.17	44.44
12	9147.50	41.62 AV	54.00	-12.38	1.53 H	55	-2.82	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	41.08 PK	74.00	-32.92	1.87 V	1	9.90	31.18
2	2744.25	37.96 AV	54.00	-16.04	1.87 V	1	6.78	31.18
3	3659.00	43.17 PK	74.00	-30.83	1.43 V	238	10.44	32.73
4	3659.00	32.98 AV	54.00	-21.02	1.43 V	238	0.25	32.73
5	4573.75	43.60 PK	74.00	-30.40	1.38 V	20	8.56	35.04
6	4573.75	37.54 AV	54.00	-16.46	1.38 V	20	2.50	35.04
7	7318.00	52.10 PK	74.00	-21.90	1.68 V	0	10.04	42.06
8	7318.00	39.89 AV	54.00	-14.11	1.68 V	0	-2.17	42.06
9	8232.75	53.43 PK	74.00	-20.57	1.35 V	53	10.09	43.34
10	8232.75	40.93 AV	54.00	-13.07	1.35 V	53	-2.41	43.34
11	9147.50	54.46 PK	74.00	-19.54	1.78 V	320	10.02	44.44
12	9147.50	41.89 AV	54.00	-12.11	1.78 V	320	-2.55	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	42.55 PK	74.00	-31.45	1.68 H	30	11.26	31.29
2	2781.75	42.01 AV	54.00	-11.99	1.68 H	30	10.72	31.29
3	3709.00	43.47 PK	74.00	-30.53	1.09 H	210	10.61	32.86
4	3709.00	33.24 AV	54.00	-20.76	1.09 H	210	0.38	32.86
5	4636.25	47.38 PK	74.00	-26.62	1.14 H	39	12.23	35.15
6	4636.25	35.01 AV	54.00	-18.99	1.14 H	39	-0.14	35.15
7	7418.00	53.64 PK	74.00	-20.36	1.00 H	255	11.33	42.31
8	7418.00	40.09 AV	54.00	-13.91	1.00 H	255	-2.22	42.31
9	8345.25	54.01 PK	74.00	-19.99	1.00 H	328	10.64	43.37
10	8345.25	41.06 AV	54.00	-12.94	1.00 H	328	-2.31	43.37
11	9267.50	55.70 PK	74.00	-18.30	1.48 H	78	11.04	44.66
12	9267.50	41.74 AV	54.00	-12.26	1.48 H	78	-2.92	44.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.02 PK	74.00	-32.98	1.38 V	261	9.73	31.29
2	2781.75	39.00 AV	54.00	-15.00	1.38 V	261	7.71	31.29
3	3709.00	44.65 PK	74.00	-29.35	1.50 V	27	11.79	32.86
4	3709.00	38.10 AV	54.00	-15.90	1.50 V	27	5.24	32.86
5	4636.25	45.81 PK	74.00	-28.19	1.27 V	29	10.66	35.15
6	4636.25	37.34 AV	54.00	-16.66	1.27 V	29	2.19	35.15
7	7418.00	53.24 PK	74.00	-20.76	1.43 V	57	10.93	42.31
8	7418.00	40.10 AV	54.00	-13.90	1.43 V	57	-2.21	42.31
9	8345.25	54.12 PK	74.00	-19.88	1.04 V	221	10.75	43.37
10	8345.25	41.23 AV	54.00	-12.77	1.04 V	221	-2.14	43.37
11	9267.50	56.06 PK	74.00	-17.94	1.27 V	216	11.40	44.66
12	9267.50	42.01 AV	54.00	-11.99	1.27 V	216	-2.65	44.66

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



For DSB-ASK(MRM) – Low Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.20	24.67 QP	43.50	-18.83	1.52 H	214	11.68	12.99
2	300.09	25.31 QP	46.00	-20.69	1.47 H	54	8.29	17.02
3	400.00	26.01 QP	46.00	-19.99	1.02 H	47	4.87	21.14
4	598.99	25.10 QP	46.00	-20.90	1.45 H	25	0.35	24.75
5	625.09	30.03 QP	46.00	-15.97	1.67 H	9	4.69	25.34
6	750.00	27.90 QP	46.00	-18.10	1.02 H	348	-0.56	28.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.99	28.00 QP	43.50	-15.50	1.02 V	236	15.02	12.98
2	400.00	31.02 QP	46.00	-14.98	1.45 V	23	9.88	21.14
3	500.00	29.10 QP	46.00	-16.90	1.68 V	195	6.44	22.66
4	625.01	32.10 QP	46.00	-13.90	1.62 V	32	6.76	25.34
5	750.01	35.23 QP	46.00	-10.77	1.20 V	326	6.77	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	47.84 PK	84.75	-36.91	1.27 H	139	16.80	31.04
	2	902.00	34.64 AV	81.45	-46.81	1.27 H	139	3.60	31.04
	3	*902.75	104.75 PK			1.31 H	141	73.70	31.05
	4	*902.75	101.45 AV			1.31 H	141	70.40	31.05
24	1	*914.75	113.84 PK			1.36 H	139	82.60	31.24
	2	*914.75	110.84 AV			1.36 H	139	79.60	31.24
49	1	*927.25	109.04 PK			1.31 H	142	77.60	31.44
	2	*927.25	105.54 AV			1.31 H	142	74.10	31.44
	3	928.00	47.85 PK	89.04	-41.19	1.31 H	142	16.40	31.45
	4	928.00	35.15 AV	85.54	-50.39	1.31 H	142	3.70	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	46.14 PK	84.65	-38.51	2.14 V	151	15.10	31.04
	2	902.00	33.14 AV	79.65	-46.51	2.14 V	151	2.10	31.04
	3	*902.75	104.65 PK			2.09 V	24	73.60	31.05
	4	*902.75	99.65 AV			2.09 V	24	68.60	31.05
24	1	*914.75	101.38 PK			1.39 V	146	70.14	31.24
	2	*914.75	97.64 AV			1.39 V	146	66.40	31.24
49	1	*927.25	104.14 PK			1.34 V	154	72.70	31.44
	2	*927.25	100.24 AV			1.34 V	154	-	31.44
	3	928.00	45.05 PK	84.14	-39.09	1.34 V	154	13.60	31.45
	4	928.00	33.15 AV	80.24	-47.09	1.34 V	154	1.70	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



A D T

CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	40.99 PK	74.00	-33.01	1.62 H	165	9.91	31.08
2	2708.25	28.79 AV	54.00	-25.21	1.62 H	165	-2.29	31.08
3	3611.00	43.11 PK	74.00	-30.89	1.57 H	269	10.51	32.60
4	3611.00	28.93 AV	54.00	-25.07	1.57 H	269	-3.67	32.60
5	4513.75	45.03 PK	74.00	-28.97	1.46 H	272	10.09	34.94
6	4513.75	32.65 AV	54.00	-21.35	1.46 H	272	-2.29	34.94
7	5416.50	47.00 PK	74.00	-27.00	1.34 H	308	10.57	36.43
8	5416.50	32.62 AV	54.00	-21.38	1.34 H	308	-3.81	36.43
9	8124.75	53.47 PK	74.00	-20.53	1.63 H	355	10.17	43.30
10	8124.75	40.09 AV	54.00	-13.91	1.63 H	355	-3.21	43.30
11	9027.50	54.09 PK	74.00	-19.91	1.65 H	42	9.88	44.21
12	9027.50	41.71 AV	54.00	-12.29	1.65 H	42	-2.50	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	41.70 PK	74.00	-32.30	1.81 V	15	10.62	31.08
2	2708.25	27.65 AV	54.00	-26.35	1.81 V	15	-3.43	31.08
3	3611.00	43.24 PK	74.00	-30.76	1.39 V	112	10.64	32.60
4	3611.00	28.99 AV	54.00	-25.01	1.39 V	112	-3.61	32.60
5	4513.75	45.89 PK	74.00	-28.11	1.58 V	298	10.95	34.94
6	4513.75	32.01 AV	54.00	-21.99	1.58 V	298	-2.93	34.94
7	5416.50	46.84 PK	74.00	-27.16	1.57 V	316	10.41	36.43
8	5416.50	33.46 AV	54.00	-20.54	1.57 V	316	-2.97	36.43
9	8124.75	54.06 PK	74.00	-19.94	1.57 V	15	10.76	43.30
10	8124.75	40.68 AV	54.00	-13.32	1.57 V	15	-2.62	43.30
11	9127.50	54.14 PK	74.00	-19.86	1.44 V	13	9.74	44.40
12	9127.50	41.39 AV	54.00	-12.61	1.44 V	13	-3.01	44.40

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	41.13 PK	74.00	-32.87	1.56 H	4	9.95	31.18
2	2744.25	27.90 AV	54.00	-26.10	1.56 H	4	-3.28	31.18
3	3659.00	43.70 PK	74.00	-30.30	1.24 H	39	10.97	32.73
4	3659.00	28.95 AV	54.00	-25.05	1.24 H	39	-3.78	32.73
5	4573.75	46.57 PK	74.00	-27.43	1.06 H	313	11.53	35.04
6	4573.75	32.35 AV	54.00	-21.65	1.06 H	313	-2.69	35.04
7	7318.00	52.86 PK	74.00	-21.14	1.15 H	216	10.80	42.06
8	7318.00	39.24 AV	54.00	-14.76	1.15 H	216	-2.82	42.06
9	8232.75	54.41 PK	74.00	-19.59	1.48 H	65	11.07	43.34
10	8232.75	40.86 AV	54.00	-13.14	1.48 H	65	-2.48	43.34
11	9147.50	54.44 PK	74.00	-19.56	1.28 H	19	10.00	44.44
12	9147.50	41.06 AV	54.00	-12.94	1.28 H	19	-3.38	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	41.40 PK	74.00	-32.60	1.27 V	124	10.22	31.18
2	2744.25	28.00 AV	54.00	-26.00	1.27 V	124	-3.18	31.18
3	3659.00	43.60 PK	74.00	-30.40	1.30 V	20	10.87	32.73
4	3659.00	29.24 AV	54.00	-24.76	1.30 V	20	-3.49	32.73
5	4573.75	47.64 PK	74.00	-26.36	1.36 V	100	12.60	35.04
6	4573.75	32.21 AV	54.00	-21.79	1.36 V	100	-2.83	35.04
7	7318.00	52.73 PK	74.00	-21.27	1.01 V	29	10.67	42.06
8	7318.00	38.69 AV	54.00	-15.31	1.01 V	29	-3.37	42.06
9	8232.75	54.04 PK	74.00	-19.96	1.03 V	0	10.70	43.34
10	8232.75	40.50 AV	54.00	-13.50	1.03 V	0	-2.84	43.34
11	9147.50	55.74 PK	74.00	-18.26	1.27 V	0	11.30	44.44
12	9147.50	41.46 AV	54.00	-12.54	1.27 V	0	-2.98	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	41.25 PK	74.00	-32.75	1.53 H	104	9.96	31.29
2	2781.75	28.15 AV	54.00	-25.85	1.53 H	104	-3.14	31.29
3	3709.00	44.10 PK	74.00	-29.90	1.31 H	200	11.24	32.86
4	3709.00	29.34 AV	54.00	-24.66	1.31 H	200	-3.52	32.86
5	4636.25	46.50 PK	74.00	-27.50	1.49 H	31	11.35	35.15
6	4636.25	32.34 AV	54.00	-21.66	1.49 H	31	-2.81	35.15
7	7418.00	53.40 PK	74.00	-20.60	1.28 H	342	11.09	42.31
8	7418.00	39.68 AV	54.00	-14.32	1.28 H	342	-2.63	42.31
9	8345.25	54.50 PK	74.00	-19.50	1.31 H	99	11.13	43.37
10	8345.25	40.30 AV	54.00	-13.70	1.31 H	99	-3.07	43.37
11	9267.50	54.68 PK	74.00	-19.32	1.25 H	26	10.02	44.66
12	9267.50	42.21 AV	54.00	-11.79	1.25 H	26	-2.45	44.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	43.73 PK	74.00	-30.27	1.34 V	283	12.44	31.29
2	2781.75	28.24 AV	54.00	-25.76	1.34 V	283	-3.05	31.29
3	3709.00	42.94 PK	74.00	-31.06	1.02 V	93	10.08	32.86
4	3709.00	29.50 AV	54.00	-24.50	1.02 V	93	-3.36	32.86
5	4636.25	47.00 PK	74.00	-27.00	1.45 V	291	11.85	35.15
6	4636.25	32.63 AV	54.00	-21.37	1.45 V	291	-2.52	35.15
7	7418.00	53.30 PK	74.00	-20.70	1.24 V	301	10.99	42.31
8	7418.00	39.20 AV	54.00	-14.80	1.24 V	301	-3.11	42.31
9	8345.25	53.20 PK	74.00	-20.80	1.29 V	38	9.83	43.37
10	8345.25	40.85 AV	54.00	-13.15	1.29 V	38	-2.52	43.37
11	9267.50	56.66 PK	74.00	-17.34	1.38 V	249	12.00	44.66
12	9267.50	41.50 AV	54.00	-12.50	1.38 V	249	-3.16	44.66

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



For PR-ASK(XRM) – High Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.20	24.90 QP	43.50	-18.60	1.02 H	2	11.91	12.99
2	300.07	26.14 QP	46.00	-19.86	1.02 H	14	9.12	17.02
3	399.99	25.97 QP	46.00	-20.03	1.54 H	216	4.83	21.14
4	598.99	25.70 QP	46.00	-20.30	1.65 H	7	0.95	24.75
5	625.01	31.23 QP	46.00	-14.77	1.85 H	65	5.89	25.34
6	749.98	28.00 QP	46.00	-18.00	1.00 H	28	-0.46	28.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.99	27.96 QP	43.50	-15.54	1.04 V	24	14.98	12.98
2	399.98	32.15 QP	46.00	-13.85	1.95 V	247	11.01	21.14
3	500.00	30.00 QP	46.00	-16.00	1.02 V	24	7.34	22.66
4	624.96	31.02 QP	46.00	-14.98	1.07 V	46	5.68	25.34
5	749.99	34.13 QP	46.00	-11.87	1.65 V	322	5.67	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	60.34 PK	105.05	-44.71	2.82 H	173	29.30	31.04
	2	902.00	46.14 AV	102.25	-56.11	2.82 H	173	15.10	31.04
	3	*902.75	125.05 PK			2.17 H	294	94.00	31.05
	4	*902.75	122.25 AV			2.17 H	294	91.20	31.05
24	1	*914.75	128.64 PK			1.36 H	139	97.40	31.24
	2	*914.75	126.24 AV			1.36 H	139	95.00	31.24
49	1	*927.25	128.44 PK			1.31 H	141	97.00	31.44
	2	*927.25	125.94 AV			1.31 H	141	94.50	31.44
	3	928.00	63.05 PK	108.44	-45.39	1.31 H	141	31.60	31.45
	4	928.00	48.95 AV	105.94	-56.99	1.31 H	141	17.50	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	55.24 PK	99.55	-44.31	1.47 V	16	24.20	31.04
	2	902.00	40.16 AV	96.65	-56.49	1.47 V	16	9.12	31.04
	3	*902.75	119.55 PK			2.15 V	20	88.50	31.05
	4	*902.75	116.65 AV			2.15 V	20	85.60	31.05
24	1	*914.75	120.34 PK			1.39 V	148	89.10	31.24
	2	*914.75	117.34 AV			1.39 V	148	86.10	31.24
49	1	*927.25	121.44 PK			1.35 V	156	90.00	31.44
	2	*927.25	118.94 AV			1.35 V	156	87.50	31.44
	3	928.00	54.75 PK	101.44	-46.69	1.35 V	156	23.30	31.45
	4	928.00	42.15 AV	98.94	-56.79	1.35 V	156	10.70	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



A D T

CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	39.34 PK	74.00	-34.66	1.42 H	154	8.26	31.08
2	2708.25	37.62 AV	54.00	-16.38	1.42 H	154	6.54	31.08
3	3611.00	43.70 PK	74.00	-30.30	1.21 H	163	11.10	32.60
4	3611.00	33.24 AV	54.00	-20.76	1.21 H	163	0.64	32.60
5	4513.75	46.29 PK	74.00	-27.71	1.34 H	151	11.35	34.94
6	4513.75	35.60 AV	54.00	-18.40	1.34 H	151	0.66	34.94
7	5416.50	46.57 PK	74.00	-27.43	1.37 H	129	10.14	36.43
8	5416.50	34.87 AV	54.00	-19.13	1.37 H	129	-1.56	36.43
9	8124.75	54.13 PK	74.00	-19.87	1.42 H	213	10.83	43.30
10	8124.75	41.00 AV	54.00	-13.00	1.42 H	213	-2.30	43.30
11	9027.50	56.27 PK	74.00	-17.73	1.64 H	283	12.06	44.21
12	9027.50	42.30 AV	54.00	-11.70	1.64 H	283	-1.91	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	38.85 PK	74.00	-35.15	1.62 V	63	7.77	31.08
2	2708.25	37.56 AV	54.00	-16.44	1.62 V	63	6.48	31.08
3	3611.00	42.60 PK	74.00	-31.40	1.74 V	29	10.00	32.60
4	3611.00	37.98 AV	54.00	-16.02	1.74 V	29	5.38	32.60
5	4513.75	45.69 PK	74.00	-28.31	1.27 V	28	10.75	34.94
6	4513.75	37.00 AV	54.00	-17.00	1.27 V	28	2.06	34.94
7	5416.50	45.63 PK	74.00	-28.37	1.37 V	43	9.20	36.43
8	5416.50	36.54 AV	54.00	-17.46	1.37 V	43	0.11	36.43
9	8124.75	53.72 PK	74.00	-20.28	1.59 V	184	10.42	43.30
10	8124.75	40.69 AV	54.00	-13.31	1.59 V	184	-2.61	43.30
11	9027.50	54.69 PK	74.00	-19.31	1.23 V	42	10.48	44.21
12	9027.50	41.50 AV	54.00	-12.50	1.23 V	42	-2.71	44.21

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.84 PK	74.00	-34.16	1.41 H	135	8.66	31.18
2	2744.25	38.10 AV	54.00	-15.90	1.41 H	135	6.92	31.18
3	3659.00	43.64 PK	74.00	-30.36	1.23 H	174	10.91	32.73
4	3659.00	33.54 AV	54.00	-20.46	1.23 H	174	0.81	32.73
5	4573.75	46.34 PK	74.00	-27.66	1.24 H	169	11.30	35.04
6	4573.75	35.64 AV	54.00	-18.36	1.24 H	169	0.60	35.04
7	7318.00	46.23 PK	74.00	-27.77	1.29 H	111	4.17	42.06
8	7318.00	39.90 AV	54.00	-14.10	1.29 H	111	-2.16	42.06
9	8232.75	55.67 PK	74.00	-18.33	1.37 H	225	12.33	43.34
10	8232.75	41.23 AV	54.00	-12.77	1.37 H	225	-2.11	43.34
11	9147.50	56.67 PK	74.00	-17.33	1.61 H	293	12.23	44.44
12	9147.50	42.31 AV	54.00	-11.69	1.61 H	293	-2.13	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.67 PK	74.00	-34.33	1.64 V	29	8.49	31.18
2	2744.25	37.30 AV	54.00	-16.70	1.64 V	29	6.12	31.18
3	3659.00	43.40 PK	74.00	-30.60	1.63 V	172	10.67	32.73
4	3659.00	37.80 AV	54.00	-16.20	1.63 V	172	5.07	32.73
5	4573.75	46.72 PK	74.00	-27.28	1.33 V	39	11.68	35.04
6	4573.75	37.34 AV	54.00	-16.66	1.33 V	39	2.30	35.04
7	7318.00	46.53 PK	74.00	-27.47	1.29 V	48	4.47	42.06
8	7318.00	39.99 AV	54.00	-14.01	1.29 V	48	-2.07	42.06
9	8232.75	54.76 PK	74.00	-19.24	1.43 V	192	11.42	43.34
10	8232.75	40.86 AV	54.00	-13.14	1.43 V	192	-2.48	43.34
11	9147.50	55.72 PK	74.00	-18.28	1.34 V	37	11.28	44.44
12	9147.50	42.00 AV	54.00	-12.00	1.34 V	37	-2.44	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



A D T

CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	40.63 PK	74.00	-33.37	1.43 H	137	9.34	31.29
2	2781.75	37.78 AV	54.00	-16.22	1.43 H	137	6.49	31.29
3	3709.00	43.92 PK	74.00	-30.08	1.18 H	164	11.06	32.86
4	3709.00	34.23 AV	54.00	-19.77	1.18 H	164	1.37	32.86
5	4636.25	47.24 PK	74.00	-26.76	1.20 H	153	12.09	35.15
6	4636.25	35.30 AV	54.00	-18.70	1.20 H	153	0.15	35.15
7	7418.00	47.63 PK	74.00	-26.37	1.21 H	121	5.32	42.31
8	7418.00	39.87 AV	54.00	-14.13	1.21 H	121	-2.44	42.31
9	8345.25	56.34 PK	74.00	-17.66	1.34 H	231	12.97	43.37
10	8345.25	41.21 AV	54.00	-12.79	1.34 H	231	-2.16	43.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	40.23 PK	74.00	-33.77	1.67 V	34	8.94	31.29
2	2781.75	37.36 AV	54.00	-16.64	1.67 V	34	6.07	31.29
3	3709.00	43.54 PK	74.00	-30.46	1.59 V	174	10.68	32.86
4	3709.00	37.65 AV	54.00	-16.35	1.59 V	174	4.79	32.86
5	4636.25	47.24 PK	74.00	-26.76	1.37 V	63	12.09	35.15
6	4636.25	37.68 AV	54.00	-16.32	1.37 V	63	2.53	35.15
7	7418.00	55.23 PK	74.00	-18.77	1.31 V	59	12.92	42.31
8	7418.00	40.00 AV	54.00	-14.00	1.31 V	59	-2.31	42.31
9	8345.25	55.64 PK	74.00	-18.36	1.29 V	134	12.27	43.37
10	8345.25	41.23 AV	54.00	-12.77	1.29 V	134	-2.14	43.37

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



For PR-ASK(XRM) – Low Power:

CHANNEL	0	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.01	25.32 QP	43.50	-18.18	1.25 H	36	12.34	12.98
2	300.00	25.45 QP	46.00	-20.55	1.32 H	65	8.43	17.02
3	399.99	26.43 QP	46.00	-19.57	2.03 H	16	5.29	21.14
4	599.99	25.33 QP	46.00	-20.67	1.37 H	219	0.56	24.77
5	625.01	30.50 QP	46.00	-15.50	1.02 H	56	5.16	25.34
6	750.00	27.90 QP	46.00	-18.10	1.11 H	9	-0.56	28.46

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	200.01	27.86 QP	43.50	-15.64	1.54 V	105	14.88	12.98
2	400.00	32.54 QP	46.00	-13.46	2.00 V	157	11.40	21.14
3	499.99	31.05 QP	46.00	-14.95	1.47 V	85	8.39	22.66
4	625.00	31.02 QP	46.00	-14.98	1.56 V	32	5.68	25.34
5	750.00	33.46 QP	46.00	-12.54	1.64 V	98	5.00	28.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	0, 24, 49	FREQUENCY RANGE	Below 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak Peak(PK)
ENVIRONMENTAL CONDITIONS	22deg. C, 67%RH, 965 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	47.94 PK	89.95	-42.01	2.17 H	301	16.90	31.04
	2	902.00	34.64 AV	86.15	-51.51	2.17 H	301	3.60	31.04
	3	*902.75	109.95 PK			1.99 H	290	78.90	31.05
	4	*902.75	106.15 AV			1.99 H	290	75.10	31.05
24	1	*914.75	110.44 PK			1.35 H	140	79.20	31.24
	2	*914.75	107.04 AV			1.35 H	140	75.80	31.24
49	1	*927.25	109.44 PK			1.32 H	141	78.00	31.44
	2	*927.25	105.64 AV			1.32 H	141	74.20	31.44
	3	928.00	46.35 PK	89.44	-43.09	1.32 H	141	14.90	31.45
	4	928.00	34.35 AV	85.64	-51.29	1.32 H	141	2.90	31.45

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

channel	No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
0	1	902.00	45.74 PK	83.45	-37.71	2.08 V	198	14.70	31.04
	2	902.00	32.94 AV	80.25	-47.31	2.08 V	198	1.90	31.04
	3	*902.75	103.45 PK			2.16 V	146	72.40	31.05
	4	*902.75	100.25 AV			2.16 V	146	69.20	31.05
24	1	*914.75	104.34 PK			1.38 V	148	73.10	31.24
	2	*914.75	100.64 AV			1.38 V	148	69.40	31.24
49	1	*927.25	104.64 PK			1.35 V	155	73.20	31.44
	2	*927.25	100.84 AV			1.35 V	155	69.40	31.44
	3	928.00	45.85 PK	84.64	-38.79	1.35 V	155	14.40	31.45
	4	928.00	33.25 AV	80.84	-47.59	1.35 V	155	1.80	31.45

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



A D T

CHANNEL	Channel 0	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	39.33 PK	74.00	-34.67	1.48 H	164	8.25	31.08
2	2708.25	28.34 AV	54.00	-25.66	1.48 H	164	-2.74	31.08
3	3611.00	43.68 PK	74.00	-30.32	1.20 H	165	11.08	32.60
4	3611.00	28.90 AV	54.00	-25.10	1.20 H	165	-3.70	32.60
5	4513.75	46.18 PK	74.00	-27.82	1.33 H	158	11.24	34.94
6	4513.75	32.65 AV	54.00	-21.35	1.33 H	158	-2.29	34.94
7	5416.50	46.44 PK	74.00	-27.56	1.35 H	131	10.01	36.43
8	5416.50	33.68 AV	54.00	-20.32	1.35 H	131	-2.75	36.43
9	8124.75	54.08 PK	74.00	-19.92	1.48 H	218	10.78	43.30
10	8124.75	40.98 AV	54.00	-13.02	1.48 H	218	-2.32	43.30
11	9027.50	55.89 PK	74.00	-18.11	1.67 H	243	11.68	44.21
12	9027.50	41.54 AV	54.00	-12.46	1.67 H	243	-2.67	44.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2708.25	38.78 PK	74.00	-35.22	1.60 V	65	7.70	31.08
2	2708.25	27.90 AV	54.00	-26.10	1.60 V	65	-3.18	31.08
3	3611.00	42.52 PK	74.00	-31.48	1.73 V	31	9.92	32.60
4	3611.00	29.67 AV	54.00	-24.33	1.73 V	31	-2.93	32.60
5	4513.75	45.67 PK	74.00	-28.33	1.28 V	27	10.73	34.94
6	4513.75	32.19 AV	54.00	-21.81	1.28 V	27	-2.75	34.94
7	5416.50	45.61 PK	74.00	-28.39	1.35 V	48	9.18	36.43
8	5416.50	33.49 AV	54.00	-20.51	1.35 V	48	-2.94	36.43
9	8124.75	53.70 PK	74.00	-20.30	1.60 V	188	10.40	43.30
10	8124.75	40.69 AV	54.00	-13.31	1.60 V	188	-2.61	43.30
11	9027.50	54.66 PK	74.00	-19.34	1.20 V	45	10.45	44.21
12	9027.50	41.50 AV	54.00	-12.50	1.20 V	45	-2.71	44.21

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



CHANNEL	Channel 24	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.82 PK	74.00	-34.18	1.40 H	141	8.64	31.18
2	2744.25	28.70 AV	54.00	-25.30	1.40 H	141	-2.48	31.18
3	3659.00	43.57 PK	74.00	-30.43	1.28 H	175	10.84	32.73
4	3659.00	29.46 AV	54.00	-24.54	1.28 H	175	-3.27	32.73
5	4573.75	46.26 PK	74.00	-27.74	1.25 H	183	11.22	35.04
6	4573.75	33.61 AV	54.00	-20.39	1.25 H	183	-1.43	35.04
7	7318.00	46.21 PK	74.00	-27.79	1.31 H	126	4.15	42.06
8	7318.00	39.70 AV	54.00	-14.30	1.31 H	126	-2.36	42.06
9	8232.75	55.43 PK	74.00	-18.57	1.41 H	223	12.09	43.34
10	8232.75	40.90 AV	54.00	-13.10	1.41 H	223	-2.44	43.34
11	9147.50	55.86 PK	74.00	-18.14	1.65 H	283	11.42	44.44
12	9147.50	41.57 AV	54.00	-12.43	1.65 H	283	-2.86	44.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2744.25	39.63 PK	74.00	-34.37	1.63 V	23	8.45	31.18
2	2744.25	28.64 AV	54.00	-25.36	1.63 V	23	-2.54	31.18
3	3659.00	43.38 PK	74.00	-30.62	1.62 V	177	10.65	32.73
4	3659.00	29.20 AV	54.00	-24.80	1.62 V	177	-3.53	32.73
5	4573.75	46.69 PK	74.00	-27.31	1.35 V	45	11.65	35.04
6	4573.75	32.19 AV	54.00	-21.81	1.35 V	45	-2.85	35.04
7	7318.00	46.48 PK	74.00	-27.52	1.25 V	56	4.42	42.06
8	7318.00	39.38 AV	54.00	-14.62	1.25 V	56	-2.68	42.06
9	8232.75	54.73 PK	74.00	-19.27	1.44 V	199	11.39	43.34
10	8232.75	40.69 AV	54.00	-13.31	1.44 V	199	-2.65	43.34
11	9147.50	55.69 PK	74.00	-18.31	1.38 V	31	11.25	44.44
12	9147.50	41.68 AV	54.00	-12.32	1.38 V	31	-2.76	44.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



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CHANNEL	Channel 49	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 63%RH, 965 hPa	TESTED BY	Wen Yu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	40.53 PK	74.00	-33.47	1.45 H	141	9.24	31.29
2	2781.75	28.44 AV	54.00	-25.56	1.45 H	141	-2.85	31.29
3	3709.00	43.81 PK	74.00	-30.19	1.20 H	165	10.95	32.86
4	3709.00	29.86 AV	54.00	-24.14	1.20 H	165	-3.00	32.86
5	4636.25	47.15 PK	74.00	-26.85	1.28 H	158	12.00	35.15
6	4636.25	32.90 AV	54.00	-21.10	1.28 H	158	-2.25	35.15
7	7418.00	47.58 PK	74.00	-26.42	1.35 H	126	5.27	42.31
8	7418.00	39.48 AV	54.00	-14.52	1.35 H	126	-2.83	42.31
9	8345.25	55.92 PK	74.00	-18.08	1.33 H	245	12.55	43.37
10	8345.25	41.08 AV	54.00	-12.92	1.33 H	245	-2.29	43.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2781.75	40.21 PK	74.00	-33.79	1.66 V	37	8.92	31.29
2	2781.75	28.24 AV	54.00	-25.76	1.66 V	37	-3.05	31.29
3	3709.00	43.53 PK	74.00	-30.47	1.61 V	182	10.67	32.86
4	3709.00	29.20 AV	54.00	-24.80	1.61 V	182	-3.66	32.86
5	4636.25	47.21 PK	74.00	-26.79	1.34 V	69	12.06	35.15
6	4636.25	32.36 AV	54.00	-21.64	1.34 V	69	-2.79	35.15
7	7418.00	55.20 PK	74.00	-18.80	1.28 V	63	12.89	42.31
8	7418.00	39.65 AV	54.00	-14.35	1.28 V	63	-2.66	42.31
9	8345.25	55.61 PK	74.00	-18.39	1.24 V	138	12.24	43.37
10	8345.25	40.69 AV	54.00	-13.31	1.24 V	138	-2.68	43.37

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

4.8 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF CONDUCTED OUT-BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100037	Aug. 09, 2008	Aug. 08, 2009

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 20 MHz bandwidth from band edge. The band edges was measured and recorded.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation

4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.8.6 TEST RESULTS

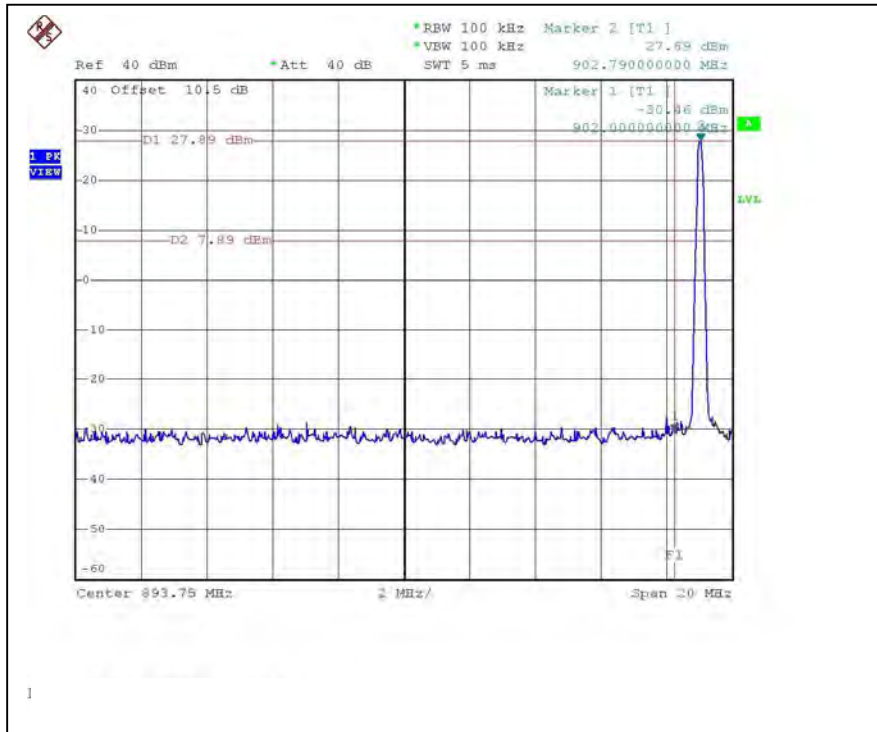
The spectrum plots are attached on the following pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).



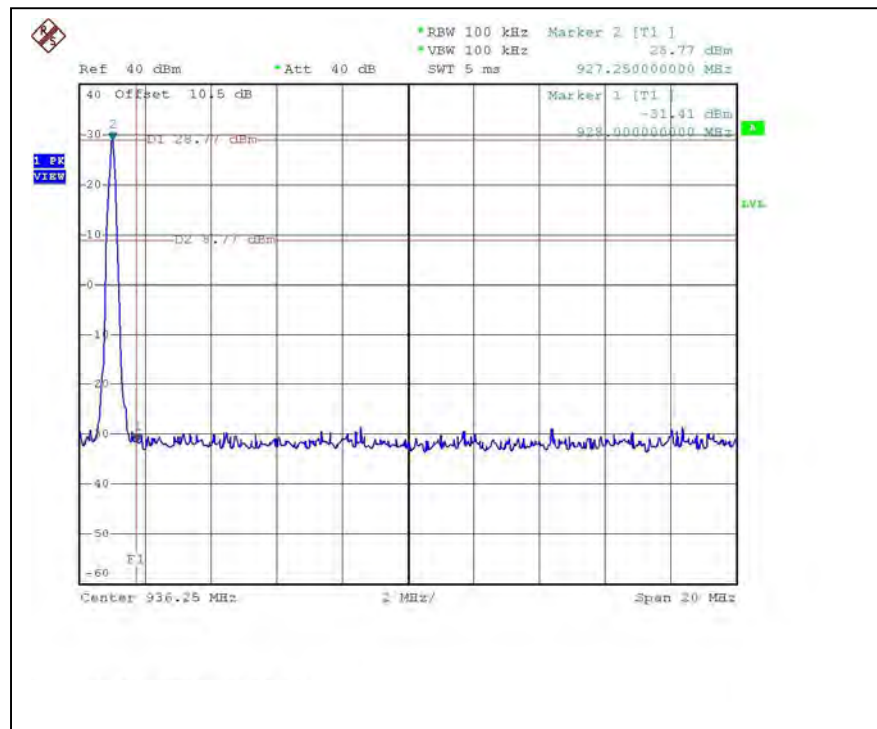
A D T

For PR-ASK(DRM) – High Power:

CH0



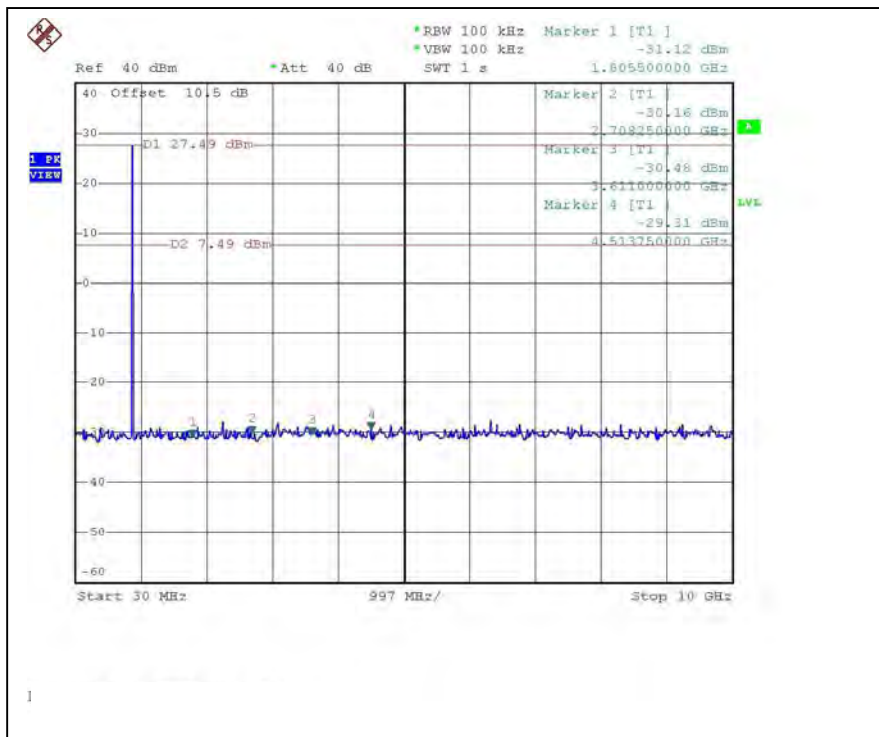
CH49



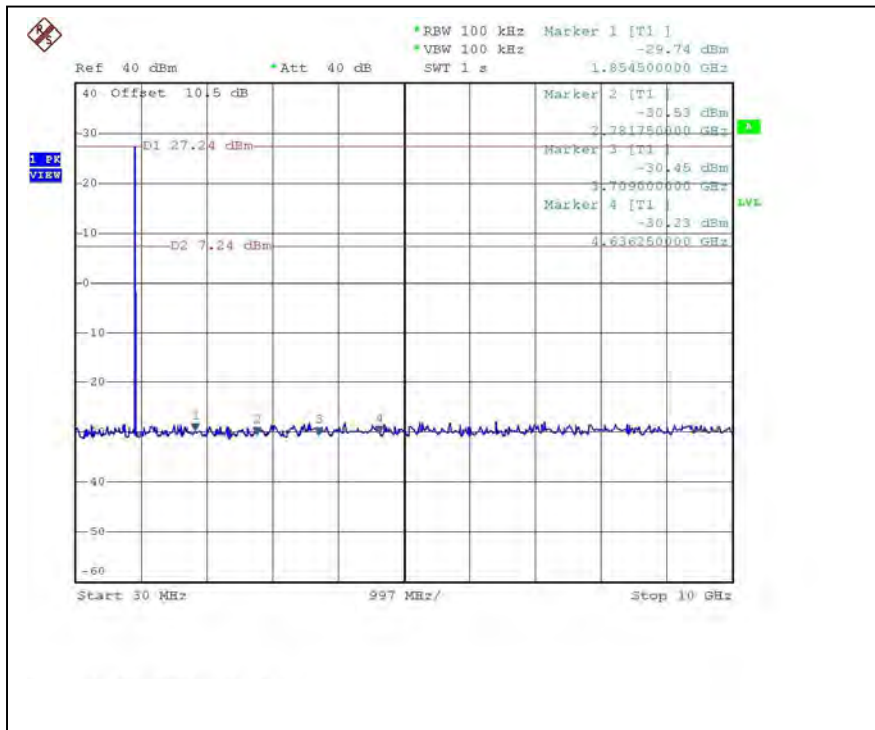


A D T

CH0



CH49

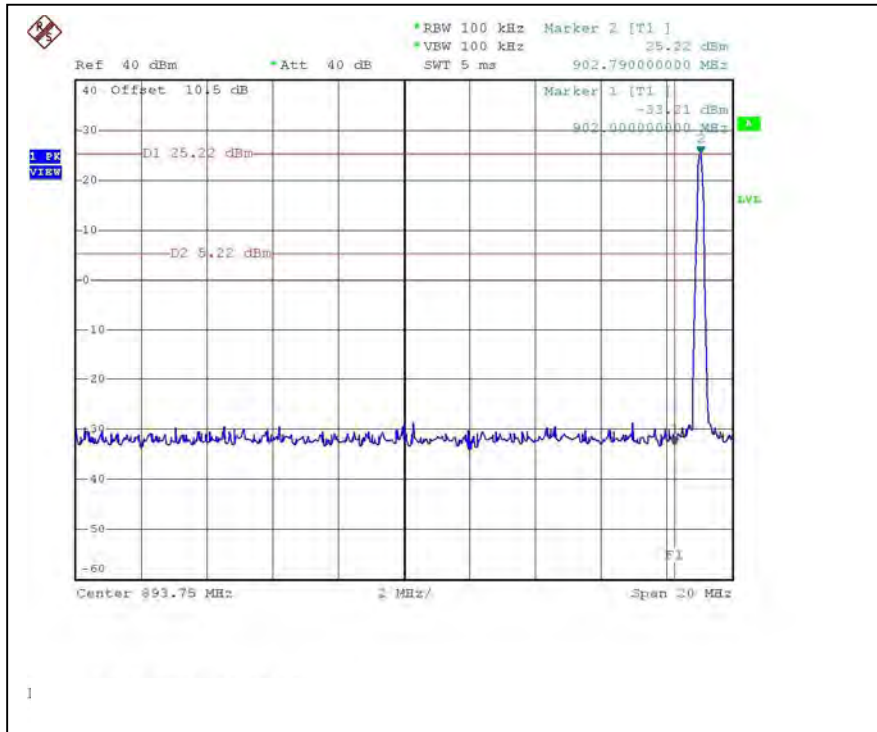




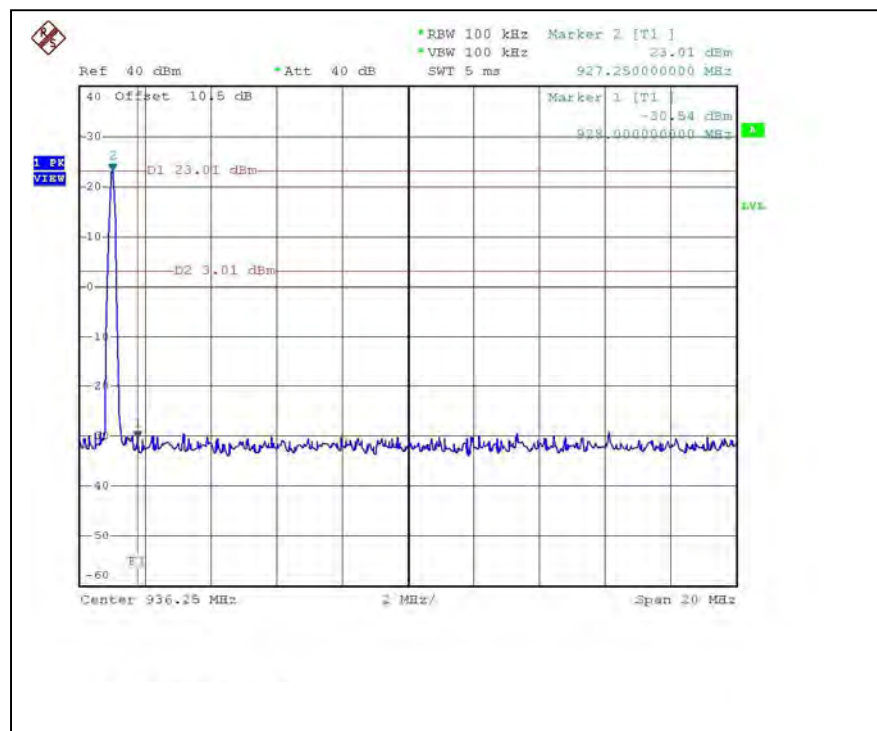
A D T

For PR-ASK(DRM) – Low Power:

CH0



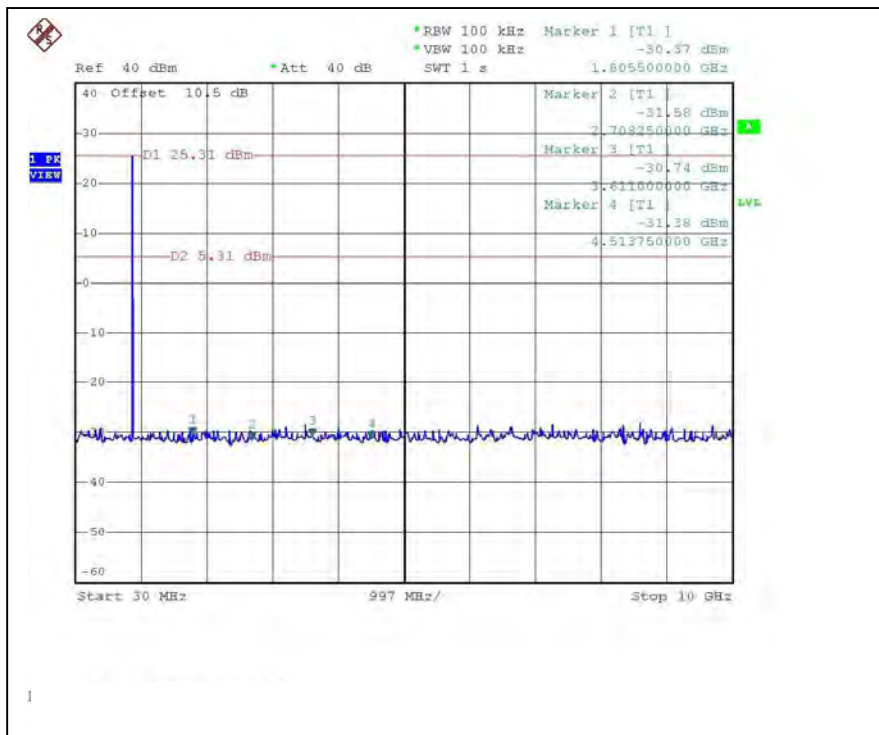
CH49



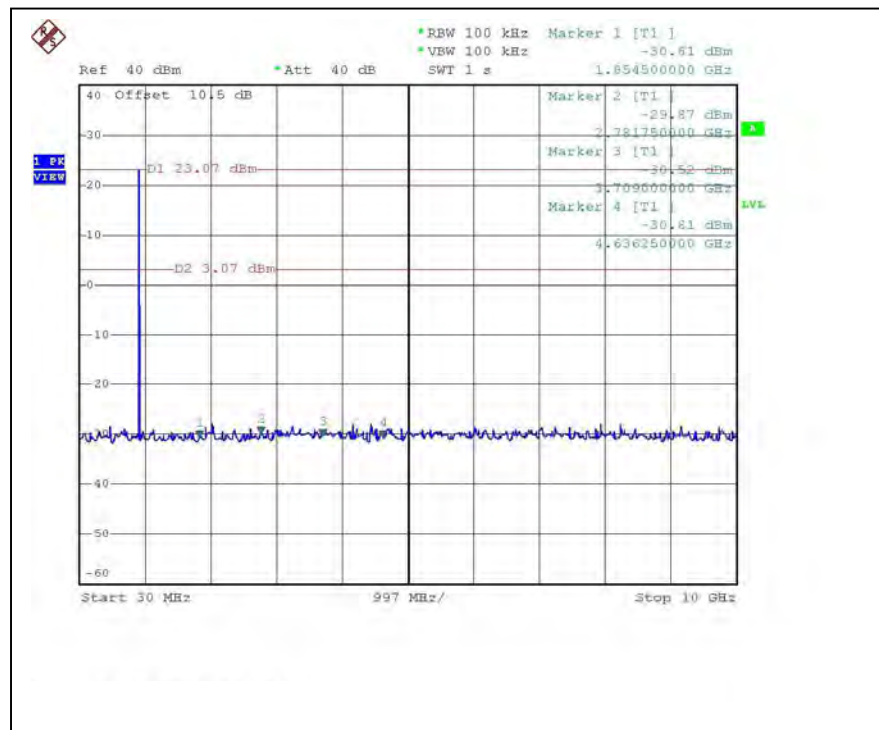


A D T

CH0



CH49

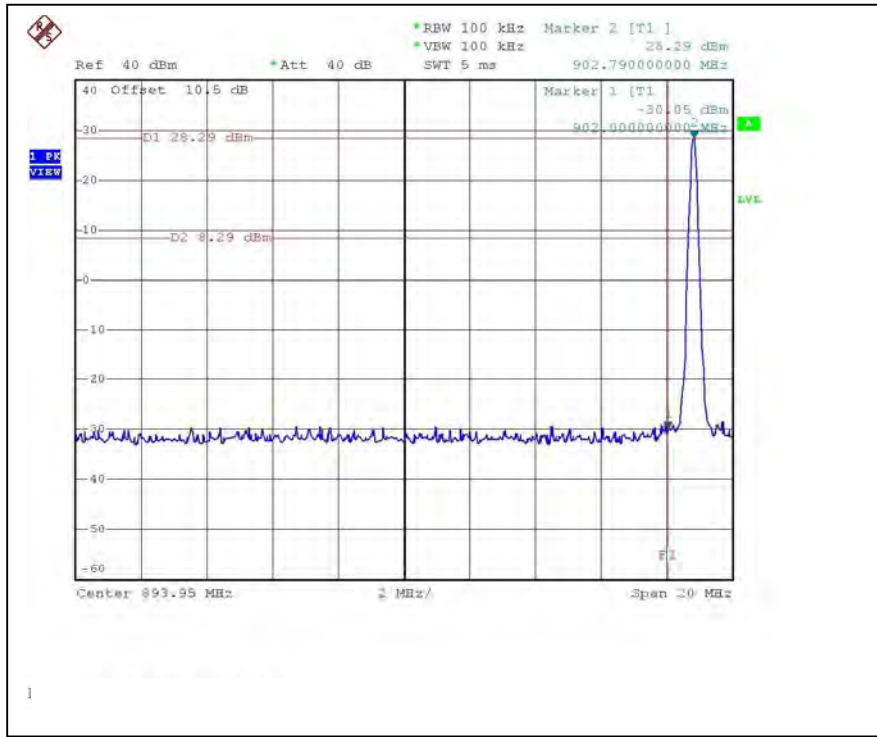




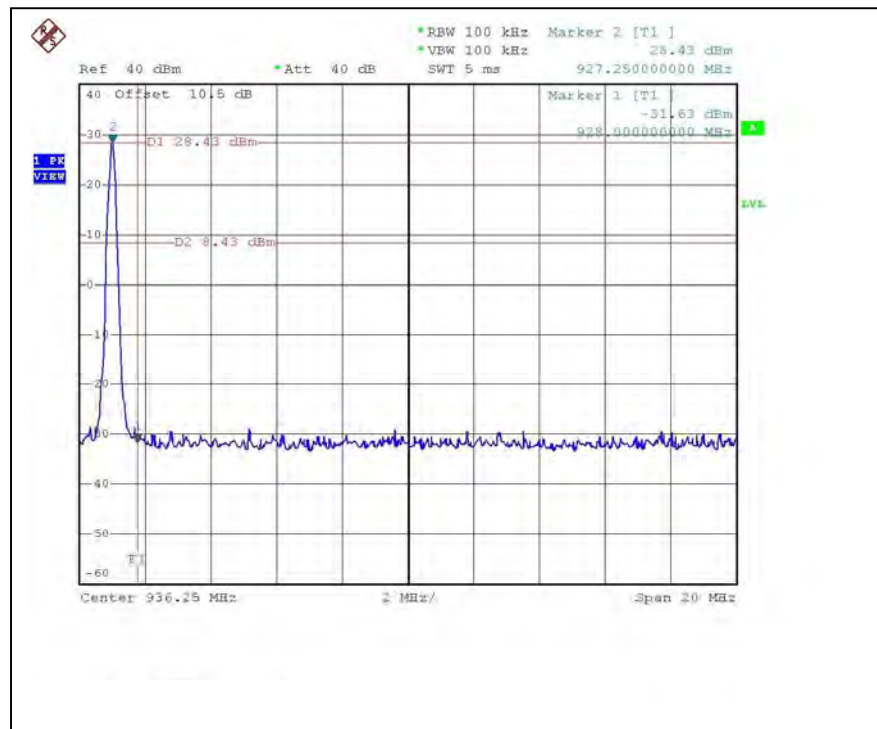
A D T

For DSB-ASK(MRM) – High Power:

CH0



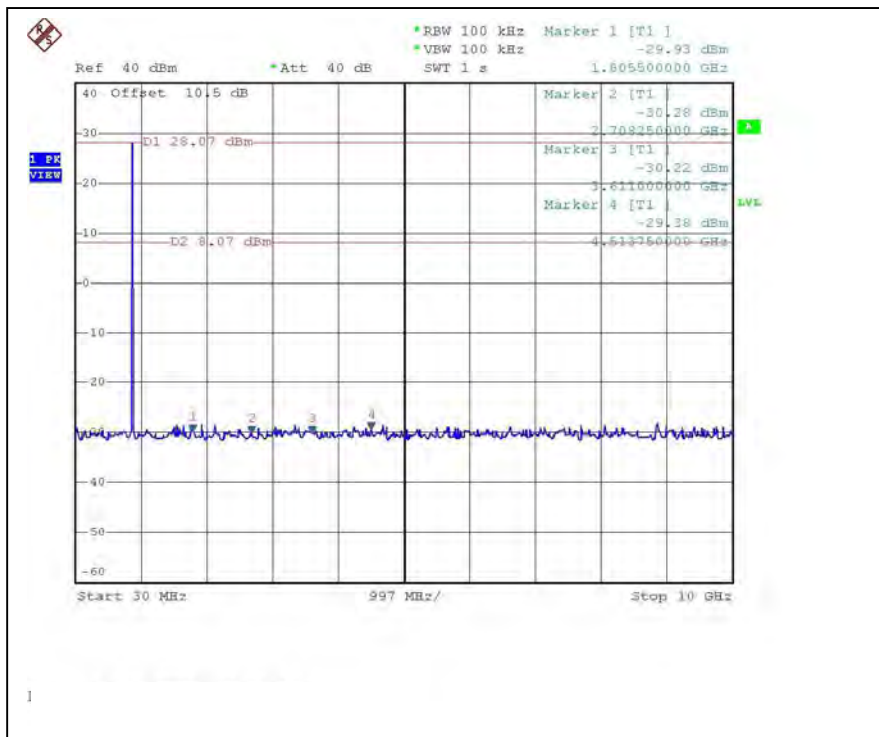
CH49



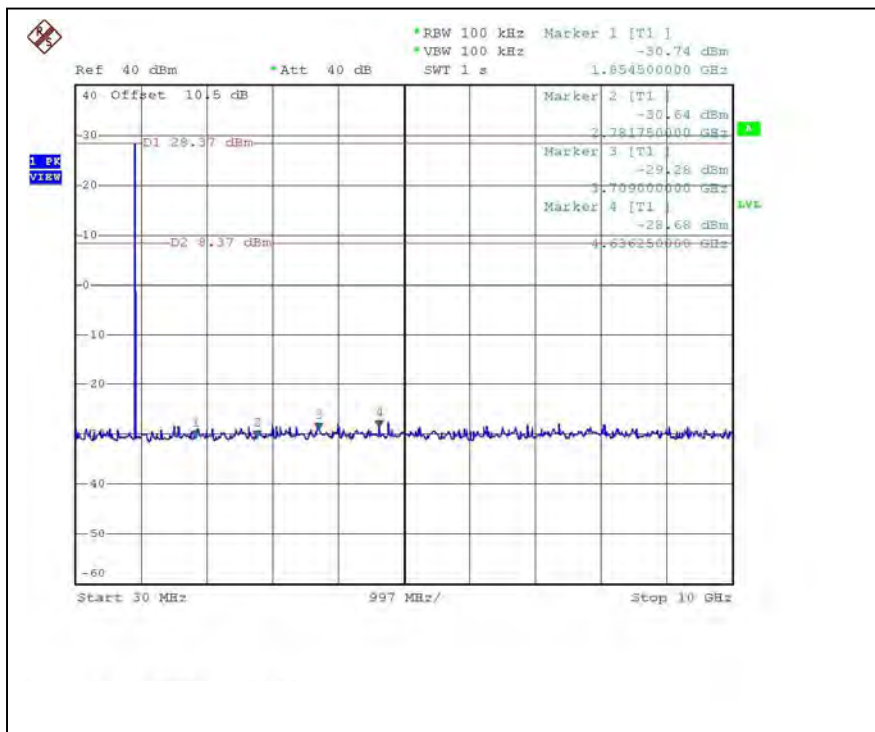


A D T

CH0



CH49

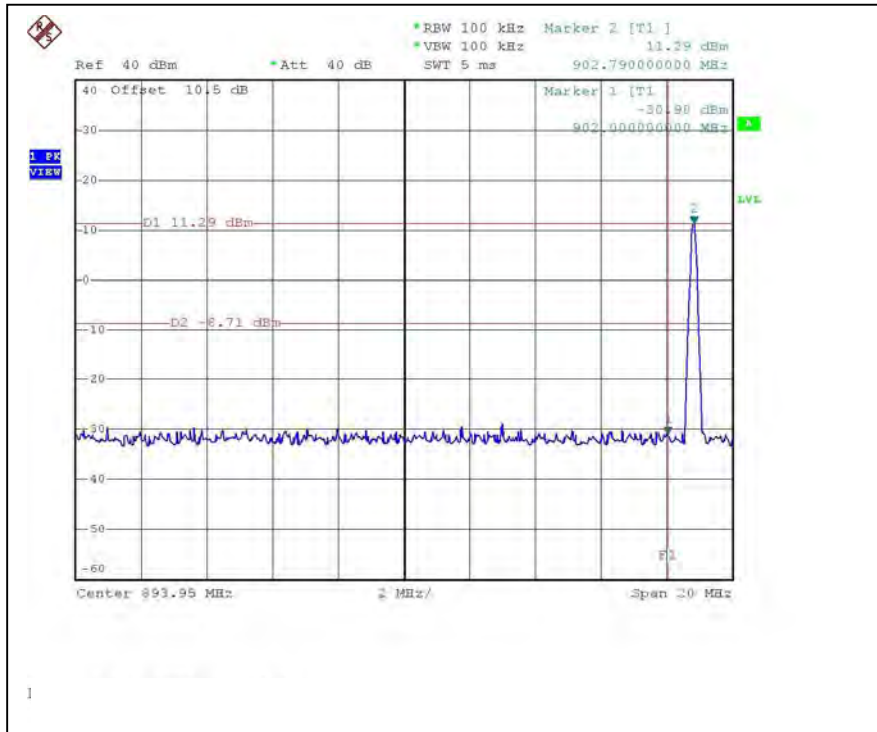




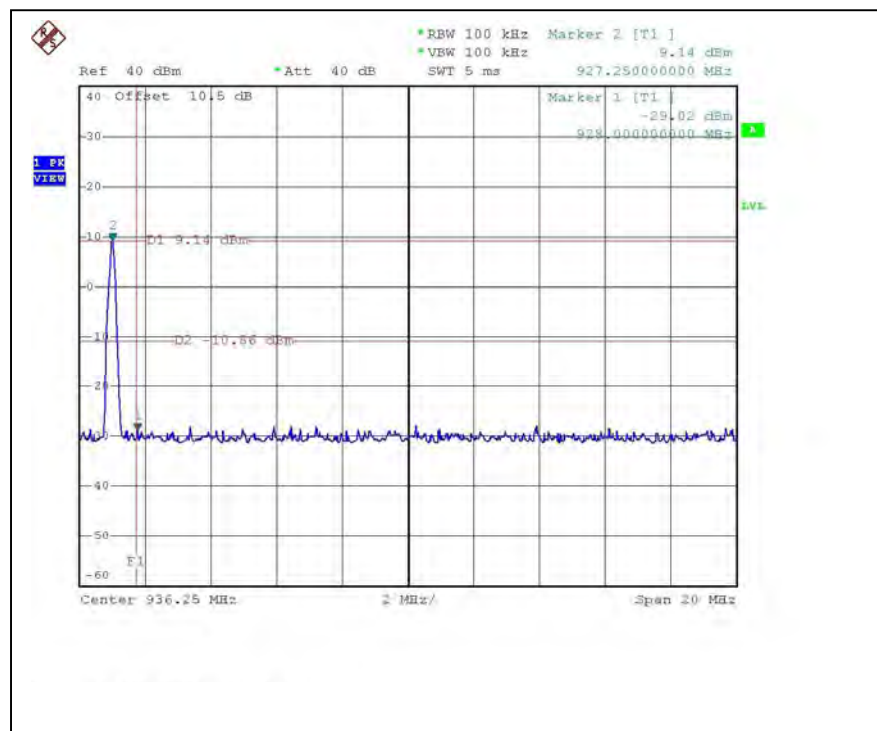
A D T

For DSB-ASK(MRM) – Low Power:

CH0



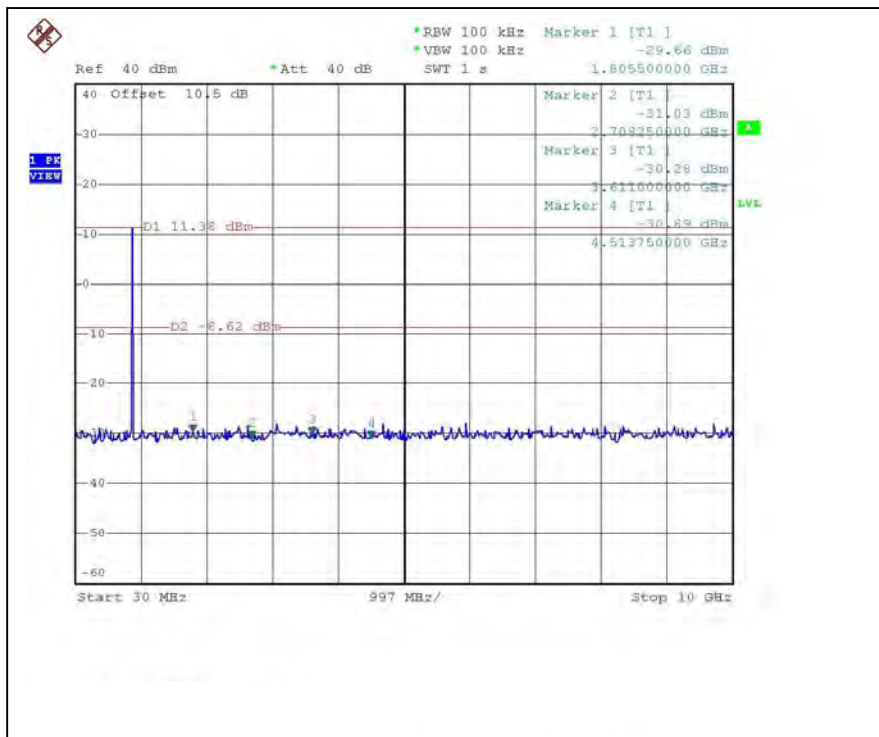
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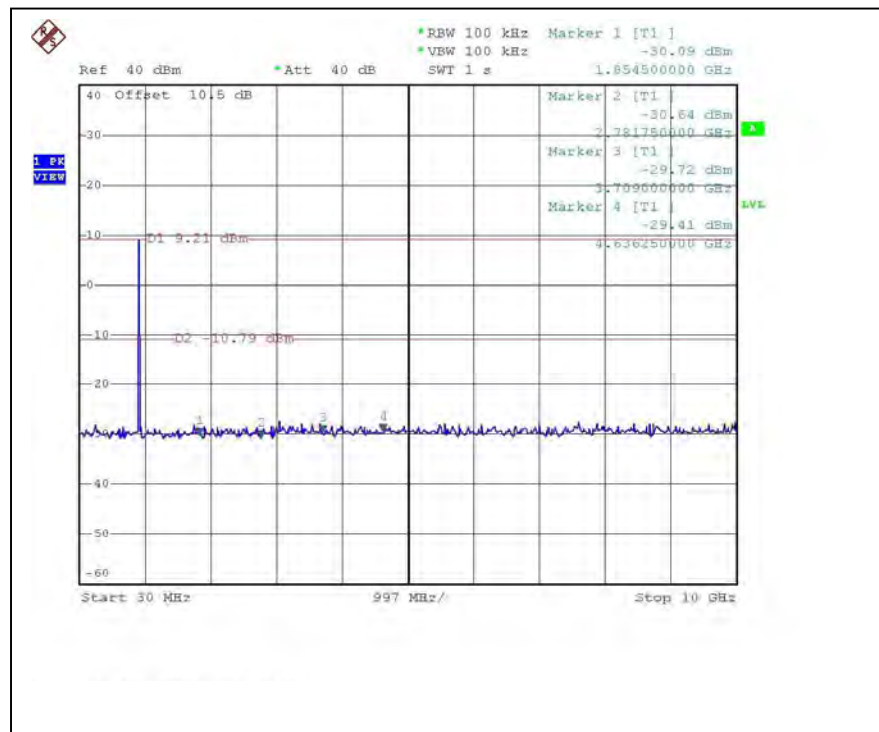


A D T

CH0



CH49

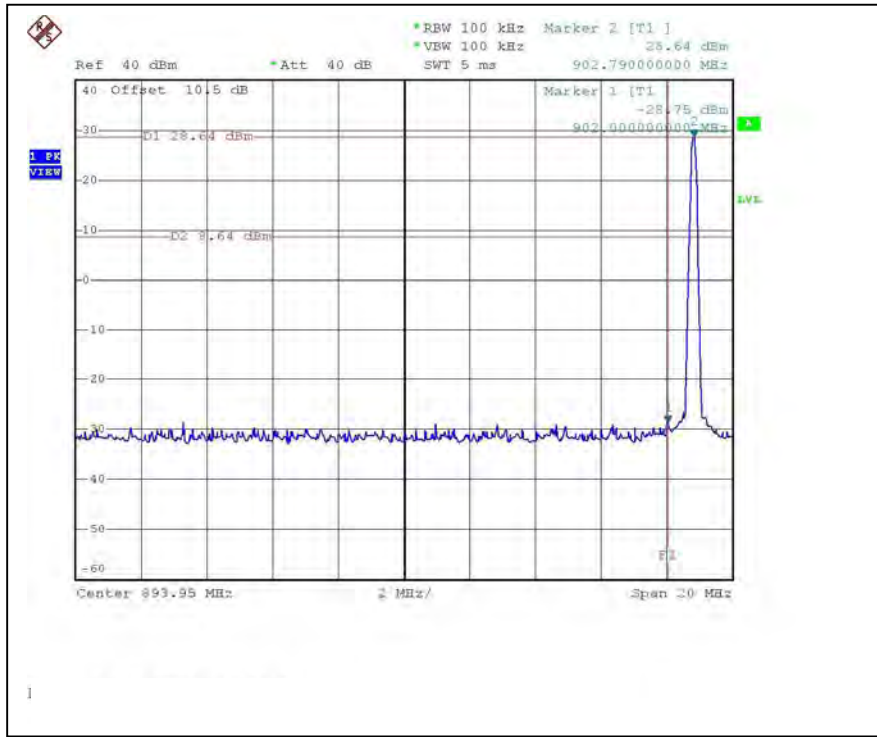




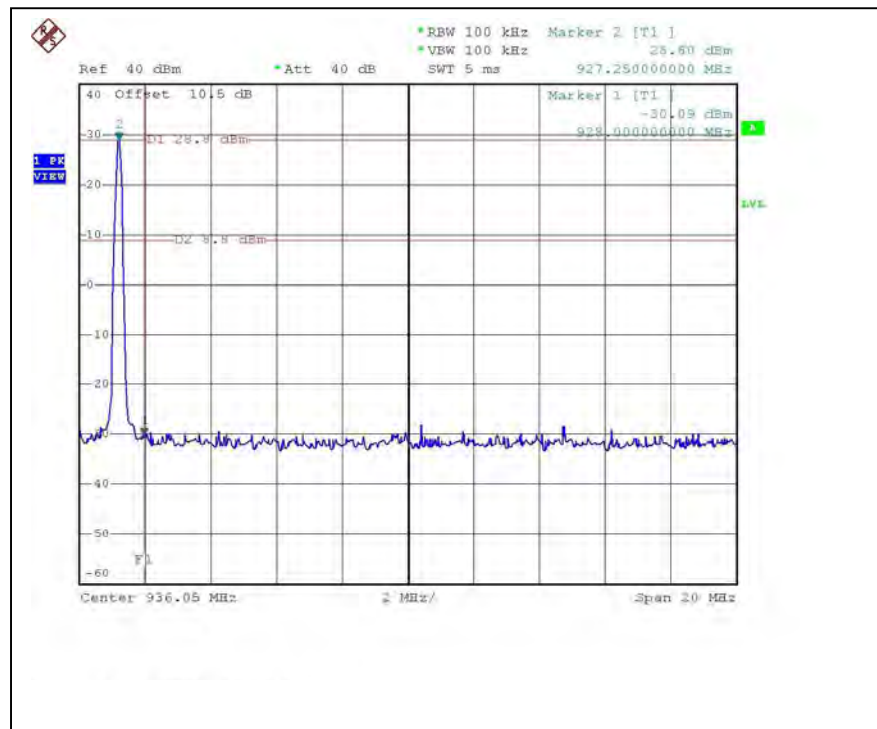
A D T

For PR-ASK(XRM) – High Power:

CH0



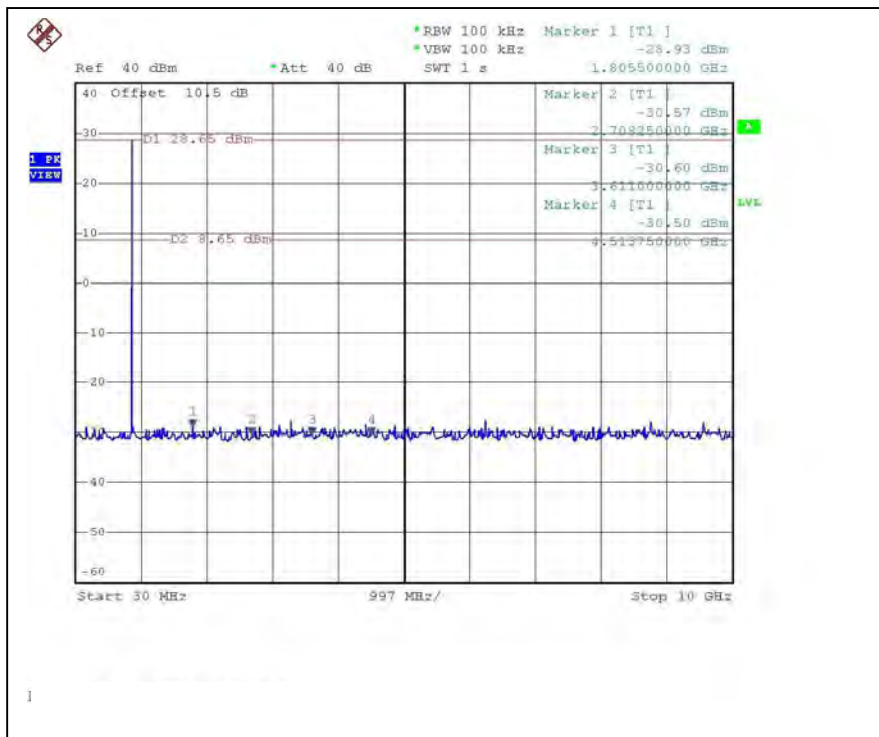
CH49



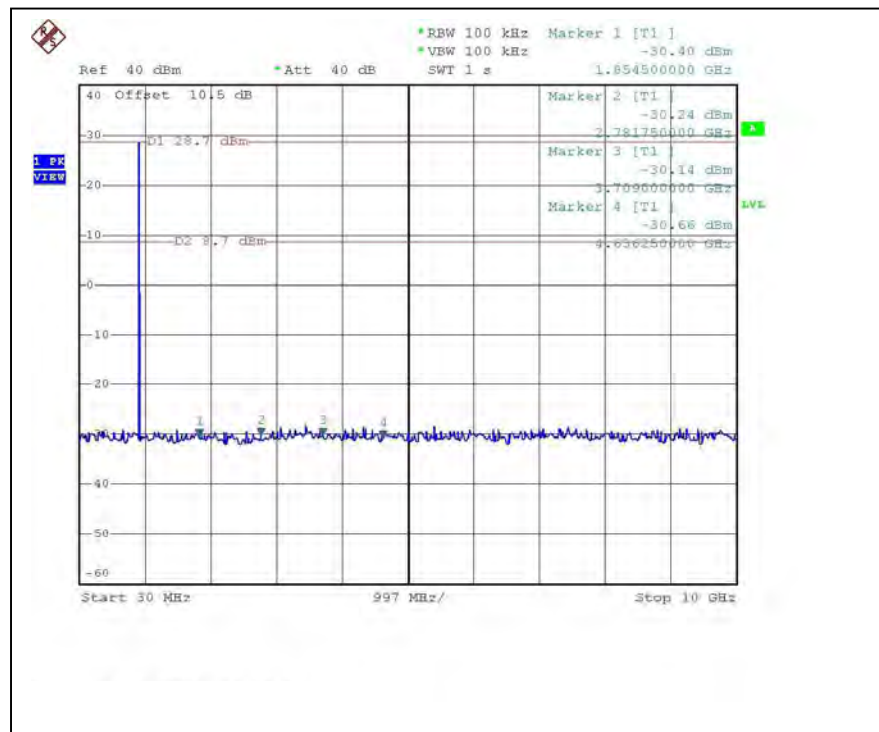


A D T

CH0



CH49

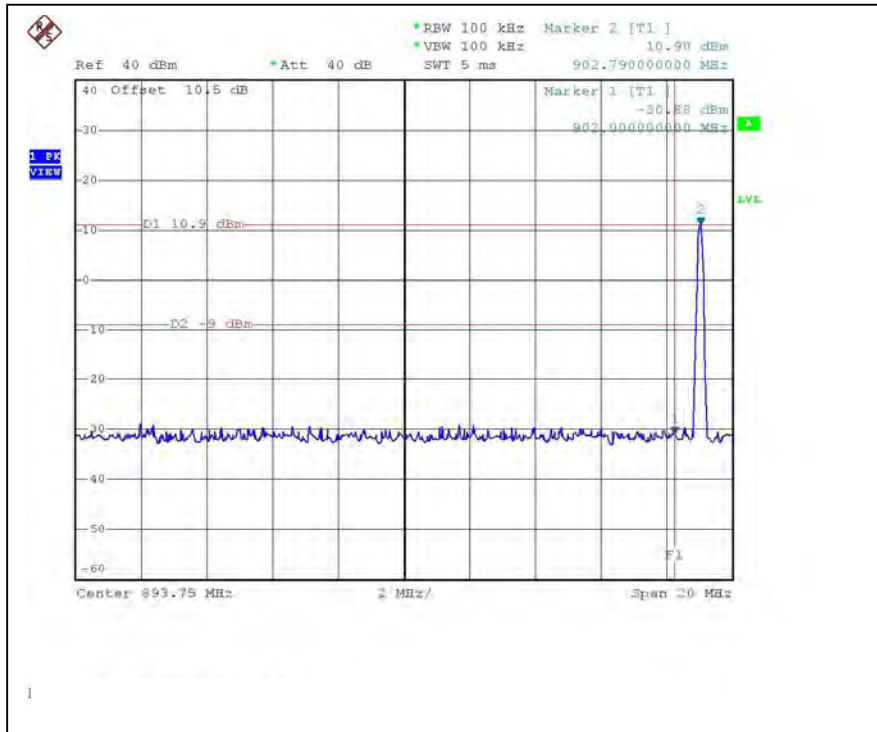




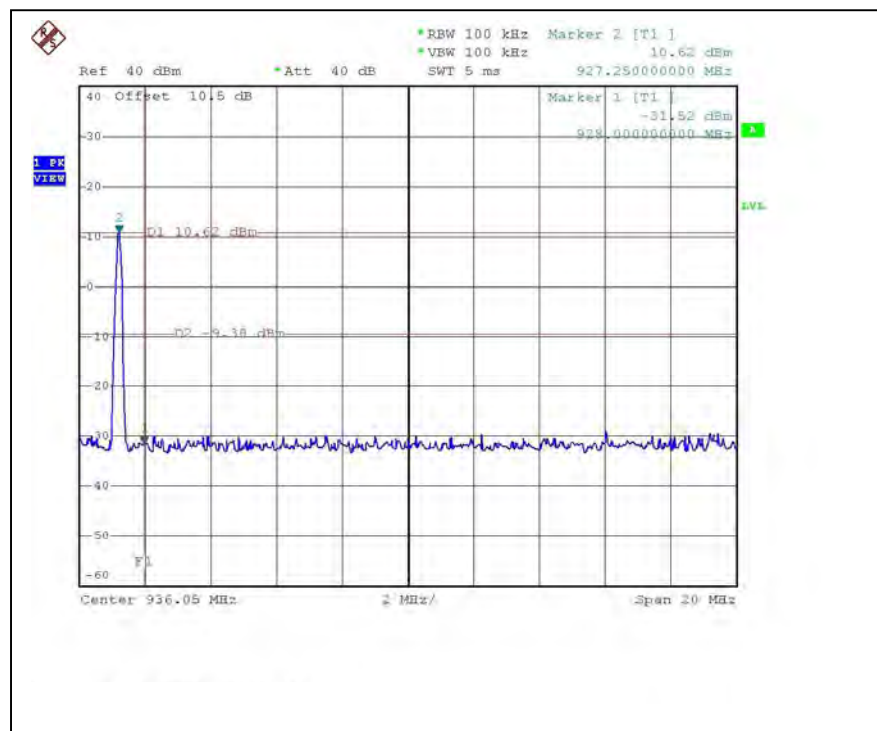
A D T

For PR-ASK(XRM) – Low Power:

CH0



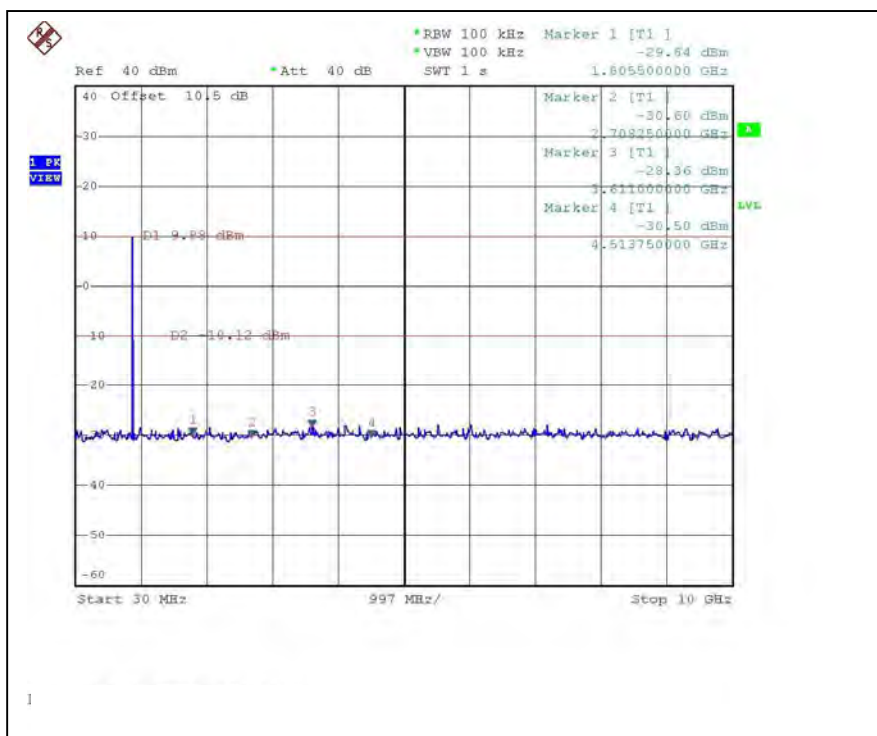
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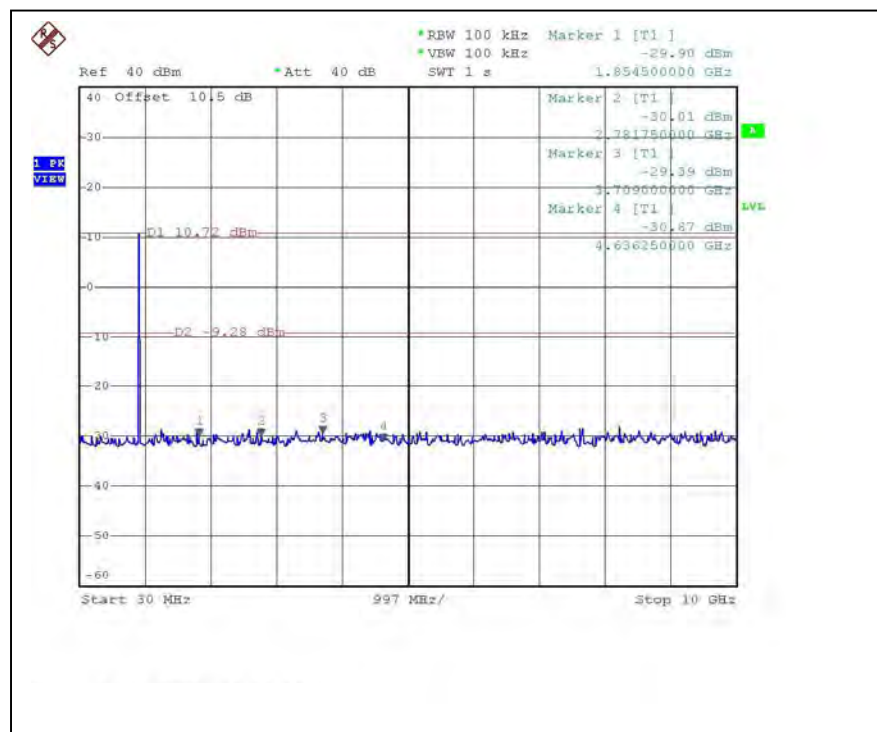


A D T

CH0



CH49



4.9 ANTENNA REQUIREMENT

4.9.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.9.2 ANTENNA CONNECTED CONSTRUCTION

There is one antenna provided to this EUT:

Antenna Type	Connector Type	Gain (dBi)	Cable loss (dB)	Net Gain (dBi)
Dipole Antenna	SMA Female	2	0.3	1.7



5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA (MOU)
Russia	CERTIS (MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Email: service@adt.com.tw

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

--- END ---