

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29	54.33	PK1	30.2	-36.9	0	47.63	-	-	74	-26.37	-	-	151	176	H
	* 1.29	51.8	AD1	30.1	-36.9	.2	45.2	54	-8.8	-	-	-	-	151	176	H
5	* 4.84	46.94	PK1	34	-29.8	0	51.14	-	-	74	-22.86	-	-	345	107	V
	* 4.84	37.78	AD1	34	-29.8	.2	42.18	54	-11.82	-	-	-	-	345	107	V
6	* 4.92	46.44	PK1	33.9	-29.2	0	51.14	-	-	74	-22.86	-	-	358	144	V
	* 4.92	37.05	AD1	33.9	-29.2	.2	41.95	54	-12.05	-	-	-	-	358	144	V
3	* 4.996	44.09	PK1	33.9	-28.6	0	49.39	-	-	74	-24.61	-	-	2	164	H
	* 4.996	31.86	AD1	33.9	-28.6	.2	37.36	54	-16.64	-	-	-	-	2	164	H
4	* 4.92	46.44	PK1	33.9	-29.2	0	51.14	-	-	74	-22.86	-	-	358	144	V
	* 4.92	37.05	AD1	33.9	-29.2	.2	41.95	54	-12.05	-	-	-	-	358	144	V
2	3.01	44.03	PK1	32.8	-31.2	0	45.63	-	-	-	-	68.2	-22.57	191	378	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

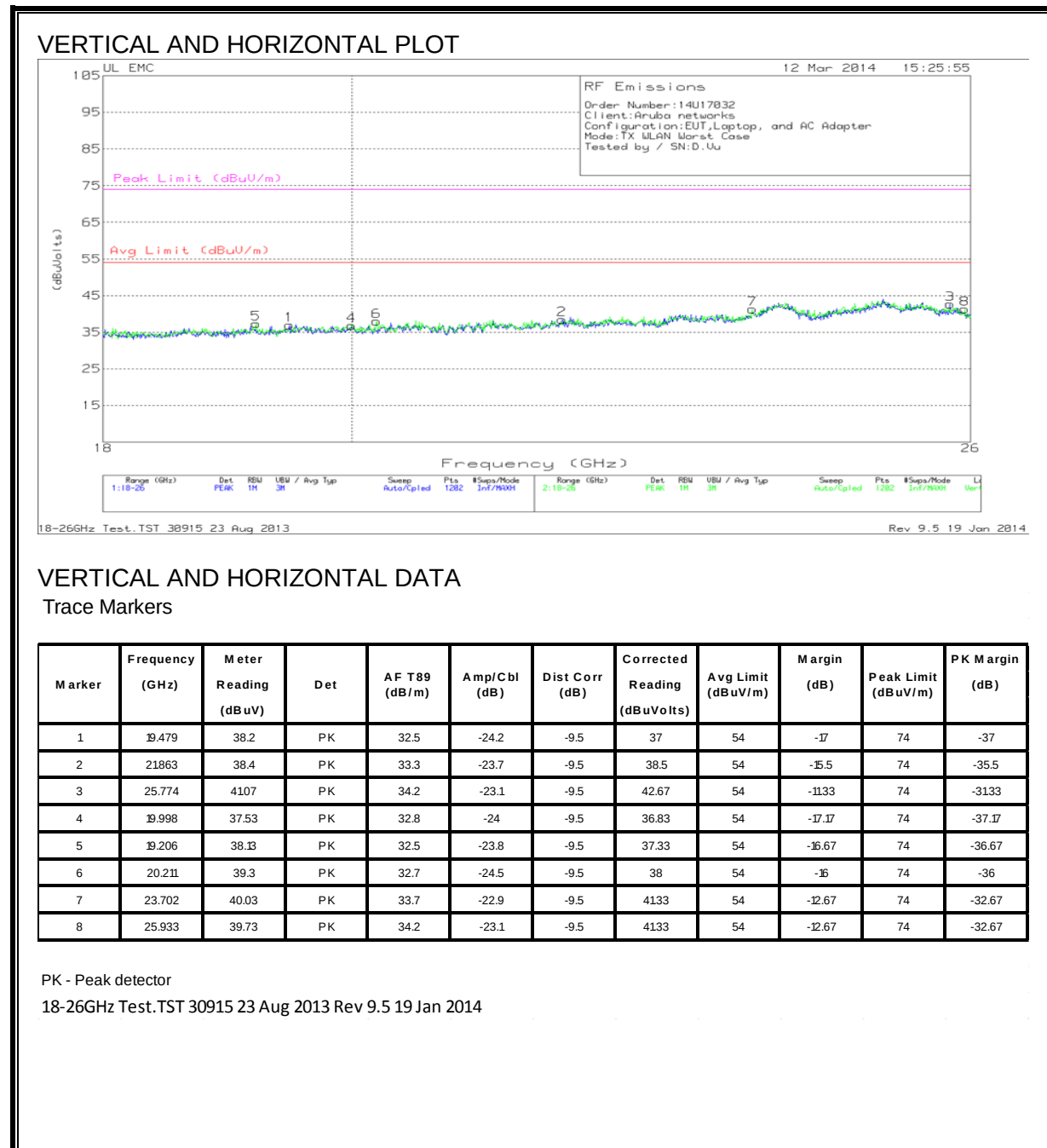
AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 24 Mar 2014

Rev 9.5 09 May 2014

9.3. WORST-CASE ABOVE 18 GHz

18GHz to 26 GHz



26 GHz to 40GHz

VERTICAL AND HORIZONTAL PLOT



VERTICAL AND HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	26.567	45.97	PK	35.4	-33.2	-9.5	38.67	54	-15.33	74	-35.33
2	30.118	47.33	PK	35.9	-35.9	-9.5	37.83	54	-16.17	74	-36.17
3	39.215	48.77	PK	38.4	-36	-9.5	41.67	54	-12.33	74	-32.33
4	27.158	45.13	PK	35.5	-33.8	-9.5	37.33	54	-16.67	74	-36.67
5	35.486	49.47	PK	37.9	-37.2	-9.5	40.67	54	-13.33	74	-33.33
6	39.223	49.83	PK	38.5	-36	-9.5	42.83	54	-11.17	74	-31.17

PK - Peak detector

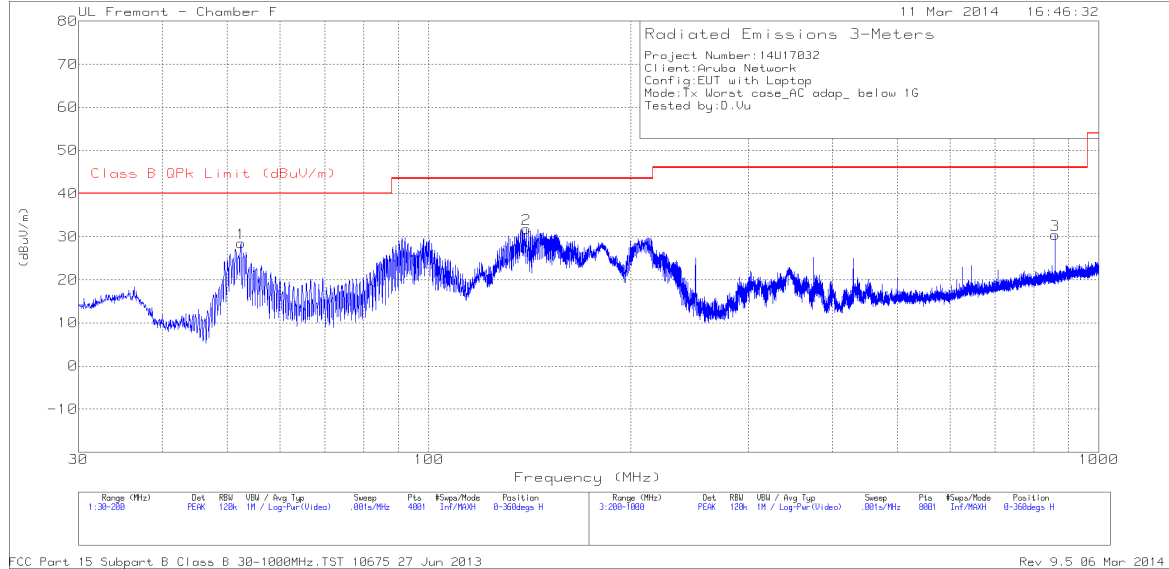
26-40GHz Test.TST 30915 2 Aug 2013 Rev 9.5 19 Jan 2014

9.4. WORST-CASE BELOW 1 GHz

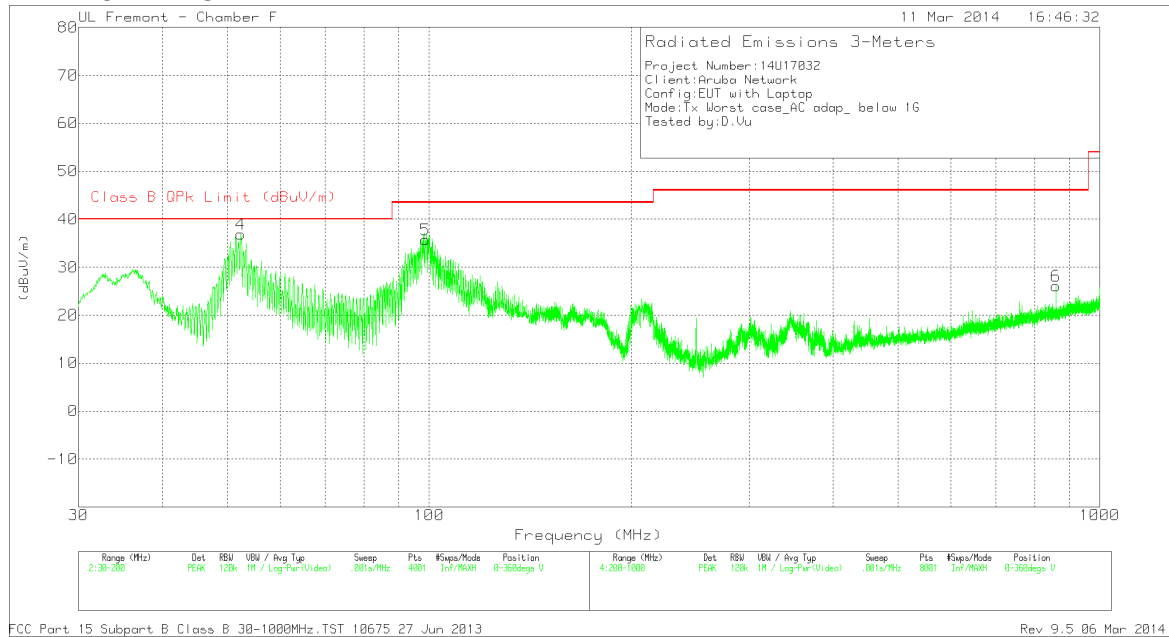
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

AC Adapter

HORIZONTAL PLOT



VERTICAL PLOT



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.44	53.32	PK	7.6	-32.4	28.52	40	-11.48	0-360	401	H
2	139.82	49.85	PK	13.2	-31.2	31.85	43.52	-11.67	0-360	201	H
4	52.355	61.66	PK	7.6	-32.4	36.86	40	-3.14	0-360	100	V
	52.4441	57.93	QP	7.8	-32.6	33.13	40	-6.87	70	124	V
5	98.7225	57	PK	10.1	-31.4	35.7	43.52	-7.82	0-360	100	V
3	860	37.45	PK	21.8	-28.8	30.45	46.02	-15.57	0-360	100	H
6	860.1	33.08	PK	21.8	-28.8	26.08	46.02	-19.94	0-360	201	V

PK - Peak detector

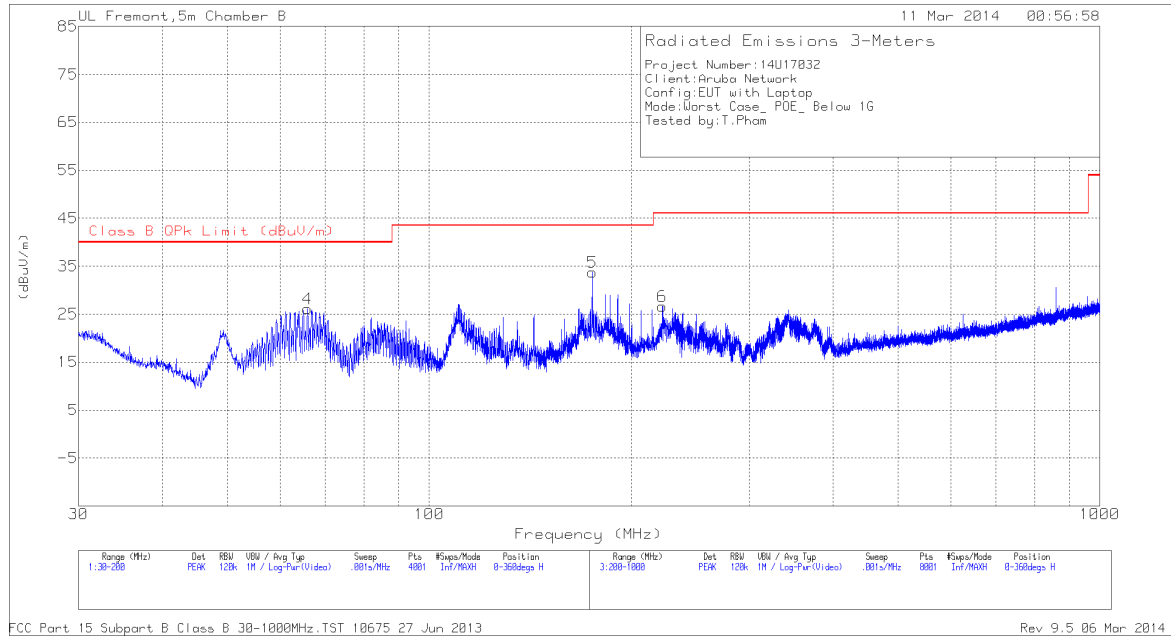
QP - Quasi-Peak detector

FCC Part 15 Subpart B Class B 30-1000MHz.TST 10675 27 Jun 2013

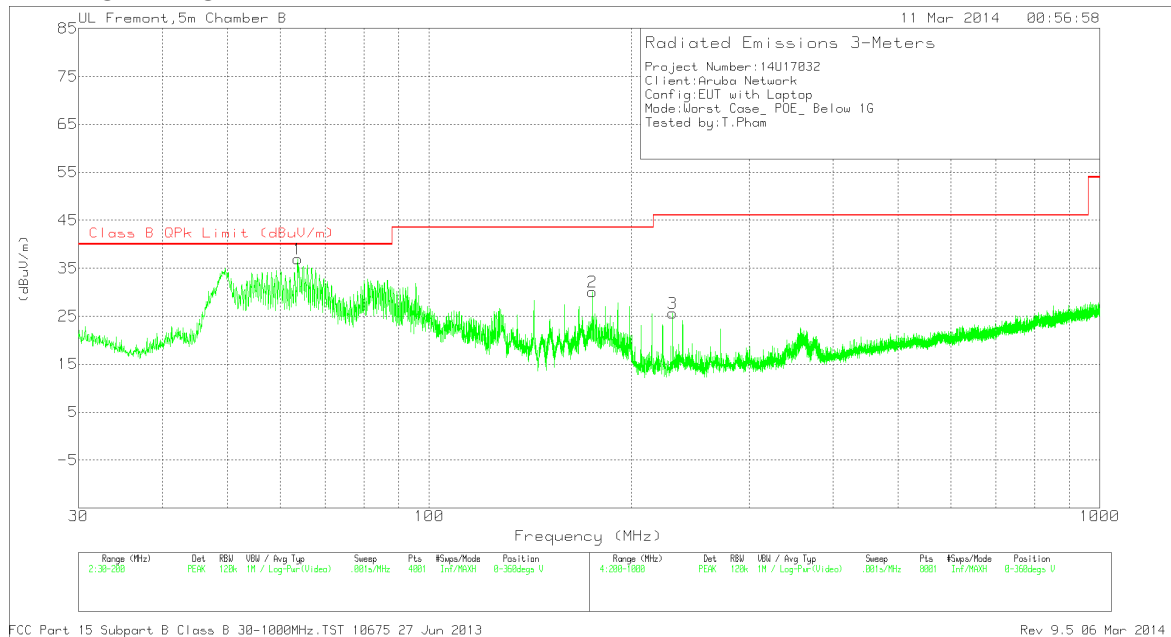
Rev 9.5 06 Mar 2014

POE

HORIZONTAL PLOT



VERTICAL PLOT



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.66	57.71	PK	7.7	-28.5	36.91	40	-3.09	0-360	100	V
	63.6441	57.93	QP	7.8	-32.6	33.13	40	-6.87	70	124	V
4	65.8275	46.62	PK	8	-28.5	26.12	40	-13.88	0-360	400	H
5	175.0525	49.31	PK	11.5	-27.1	33.71	43.52	-9.81	0-360	201	H
2	175.095	45.62	PK	11.5	-27.1	30.02	43.52	-13.5	0-360	100	V
6	222.8	42.82	PK	10.6	-26.8	26.62	46.02	-19.4	0-360	100	H
3	230.8	41.24	PK	11	-26.6	25.64	46.02	-20.38	0-360	201	V

PK - Peak detector

QP - Quasi-Peak detector

FCC Part 15 Subpart B Class B 30-1000MHz.TST 10675 27 Jun 2013

Rev 9.5 06 Mar 2014

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

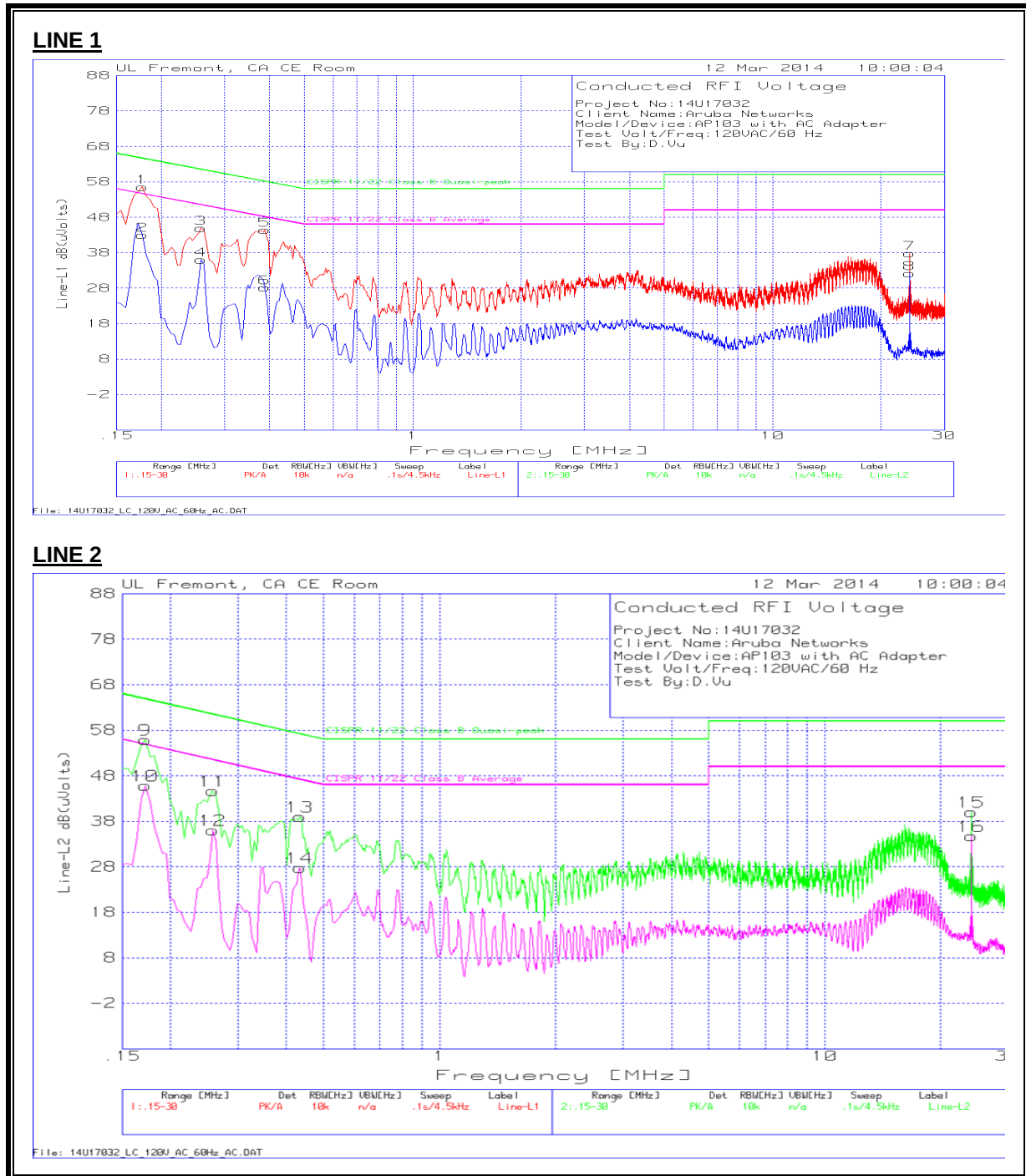
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

AC ADAPTER – 120VAC



Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	0.177	55.48	PK	11	0	56.58	64.6	-8.02	-	-
2	0.177	41.92	Av	11	0	43.02	-	-	54.6	-11.58
3	0.258	44.24	PK	0.7	0	44.94	61.5	-16.56	-	-
4	0.258	35.33	Av	0.7	0	36.03	-	-	51.5	-15.47
5	0.3885	43.97	PK	0.4	0	44.37	58.1	-13.73	-	-
6	0.3885	27.75	Av	0.4	0	28.15	-	-	48.1	-19.95
7	24	37.34	PK	0.3	0.2	37.84	60	-22.16	-	-
8	24	31.71	Av	0.3	0.2	32.21	-	-	50	-17.79

Line-L2 .15 - 30MHz

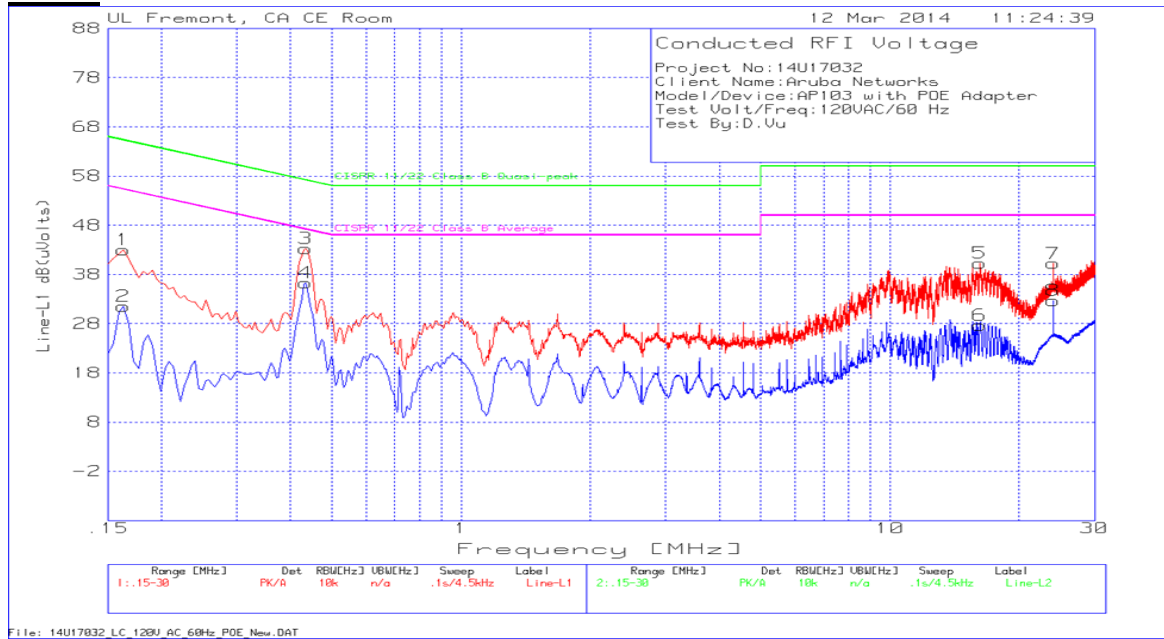
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading	CISPR 11/22 Class B Quasi-	Margin to Limit (dB)	CISPR 11/22 Class B	Margin to Limit (dB)
9	0.1725	54.67	PK	12	0	55.87	64.8	-8.93	-	-
10	0.1725	44.69	Av	12	0	45.89	-	-	54.8	-8.91
11	0.258	43.95	PK	0.7	0	44.65	61.5	-16.85	-	-
12	0.258	35.29	Av	0.7	0	35.99	-	-	51.5	-15.51
13	0.4335	38.64	PK	0.4	0	39.04	57.2	-18.16	-	-
14	0.4335	27.43	Av	0.4	0	27.83	-	-	47.2	-19.37
15	24	39.48	PK	0.3	0.2	39.98	60	-20.02	-	-
16	24	34.22	Av	0.3	0.2	34.72	-	-	50	-15.28

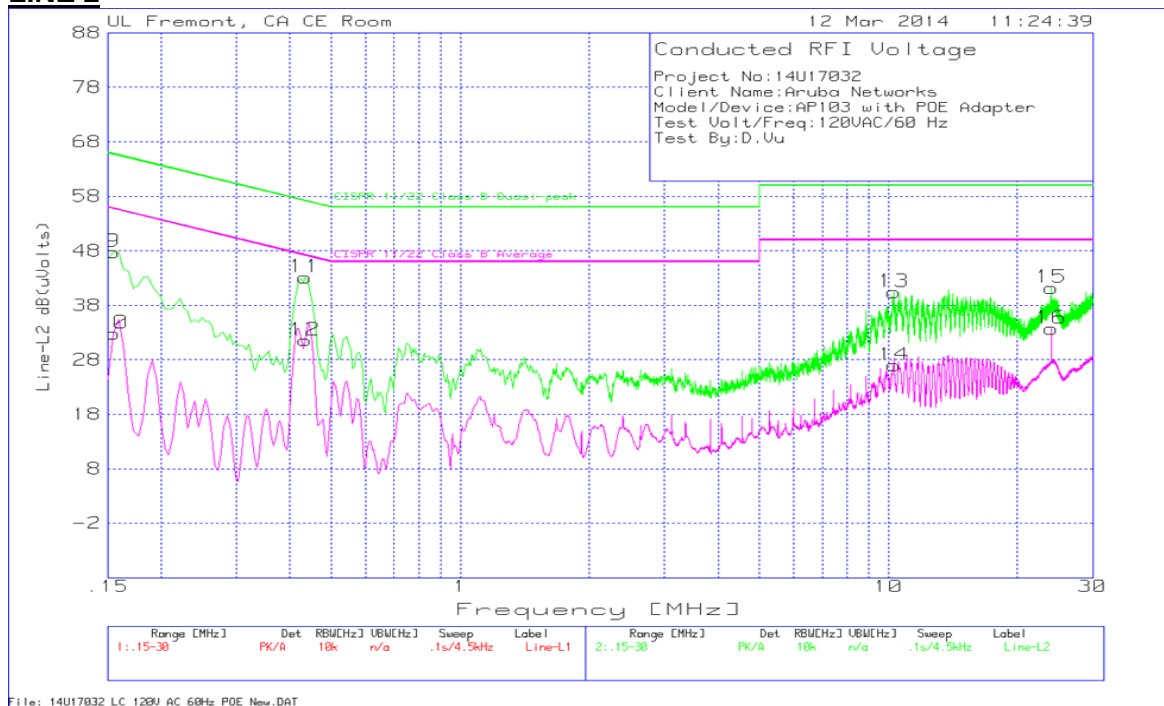
PK - Peak detector
Av - average detection

POE ADAPTER – 120 VAC

LINE 1



LINE 2



Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	0.1635	41.77	PK	12	0	42.97	65.3	-22.33	-	-
2	0.1635	30.33	Av	12	0	31.53	-	-	55.3	-23.77
3	0.4335	42.84	PK	0.4	0	43.24	57.2	-13.96	-	-
4	0.4335	35.93	Av	0.4	0	36.33	-	-	47.2	-10.87
5	16.2105	39.84	PK	0.3	0.2	40.34	60	-19.66	-	-
6	16.2105	27.16	Av	0.3	0.2	27.66	-	-	50	-22.34
7	24	39.73	PK	0.3	0.2	40.23	60	-19.77	-	-
8	24	32.14	Av	0.3	0.2	32.64	-	-	50	-17.36

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
9	0.1545	46.32	PK	14	0	47.72	65.8	-18.08	-	-
10	0.1545	31.47	Av	14	0	32.87	-	-	55.8	-22.93
11	0.4335	42.7	PK	0.4	0	43.1	57.2	-14.1	-	-
12	0.4335	31.19	Av	0.4	0	31.59	-	-	47.2	-15.61
13	10.284	39.97	PK	0.2	0.2	40.37	60	-19.63	-	-
14	10.284	26.56	Av	0.2	0.2	26.96	-	-	50	-23.04
15	24	40.71	PK	0.3	0.2	41.21	60	-18.79	-	-
16	24	33.27	Av	0.3	0.2	33.77	-	-	50	-16.23

PK - Peak detector

Av - average detection