

MID CHANNEL DATA

Project :13J14910
Company Name: MITSUMI
Model / Config: EUT
Mode: n mode HT40 CDD MCS0 Mid ch_2437
Test By: Lieu Nguyen

Horizontal 1000 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
1	2431.177	50.29	PK	32.4	-35	4.7	0.9	53.29	-	-	68.2	-14.91	200	Horz
2	2834.624	49	PK	32.9	-35.2	5.1	0.9	52.7	54	-1.3	74	-21.3	200	Horz
3	1594.554	46.91	PK	28.9	-35.2	3.8	0.6	45.01	-	-	68.2	-23.19	200	Horz
4	7306.52	37.33	PK	35.8	-35	8.9	0.3	47.33	54	-6.67	74	-26.67	100	Horz

Vertical 1000 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
*5	2439.67	53.19	PK	32.4	-35	4.7	0.9	56.19	-	-	-	-	200	Vert
6	1594.554	45.97	PK	28.9	-35.2	3.8	0.6	44.07	-	-	68.2	-24.13	200	Vert
7	2834.624	41.96	PK	32.9	-35.2	5.1	0.9	45.66	54	-8.34	74	-28.34	200	Vert
8	7298.026	43.65	PK	35.8	-35	8.9	0.2	53.55	54	-0.45	74	-20.45	200	Vert
9	2656.258	37.23	PK	32.7	-35.1	4.9	0.9	40.63	54	-13.37	74	-33.37	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
10	12534.733	23.2	PK	39.2	-32.5	11.8	0.4	42.1	54	-11.9	74	-31.9	200	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
11	11763.118	23.46	PK	39	-33.5	11.4	0.5	40.86	54	-13.14	74	-33.14	100	Vert

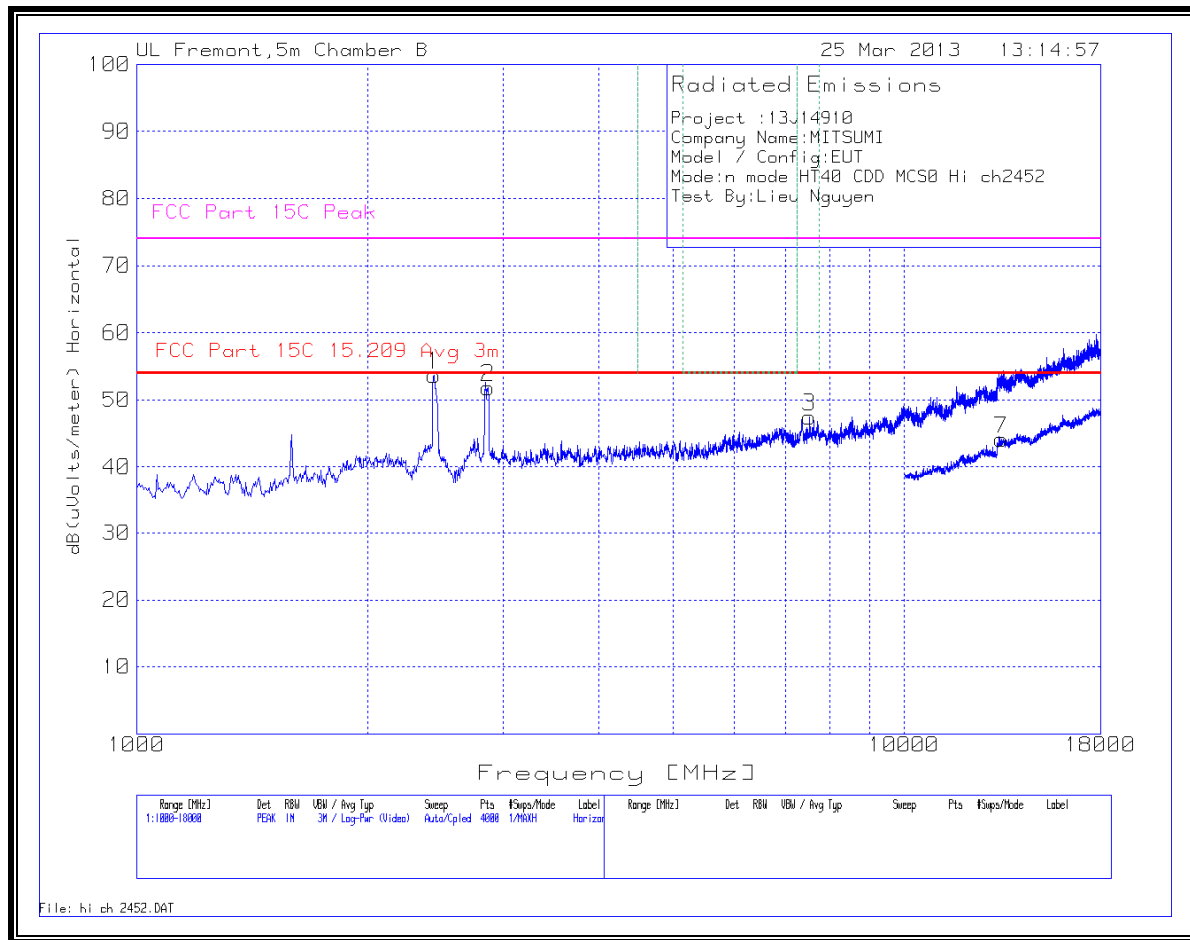
Average detector

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
2	2832.699	39.82	Av	32.9	-35.2	5.1	0.9	43.52	54	-10.48	74	-30.48	194	Horz
8	7298	33.47	Av	35.8	-35	8.9	0.2	43.37	54	-10.63	74	-30.63	153	Vert

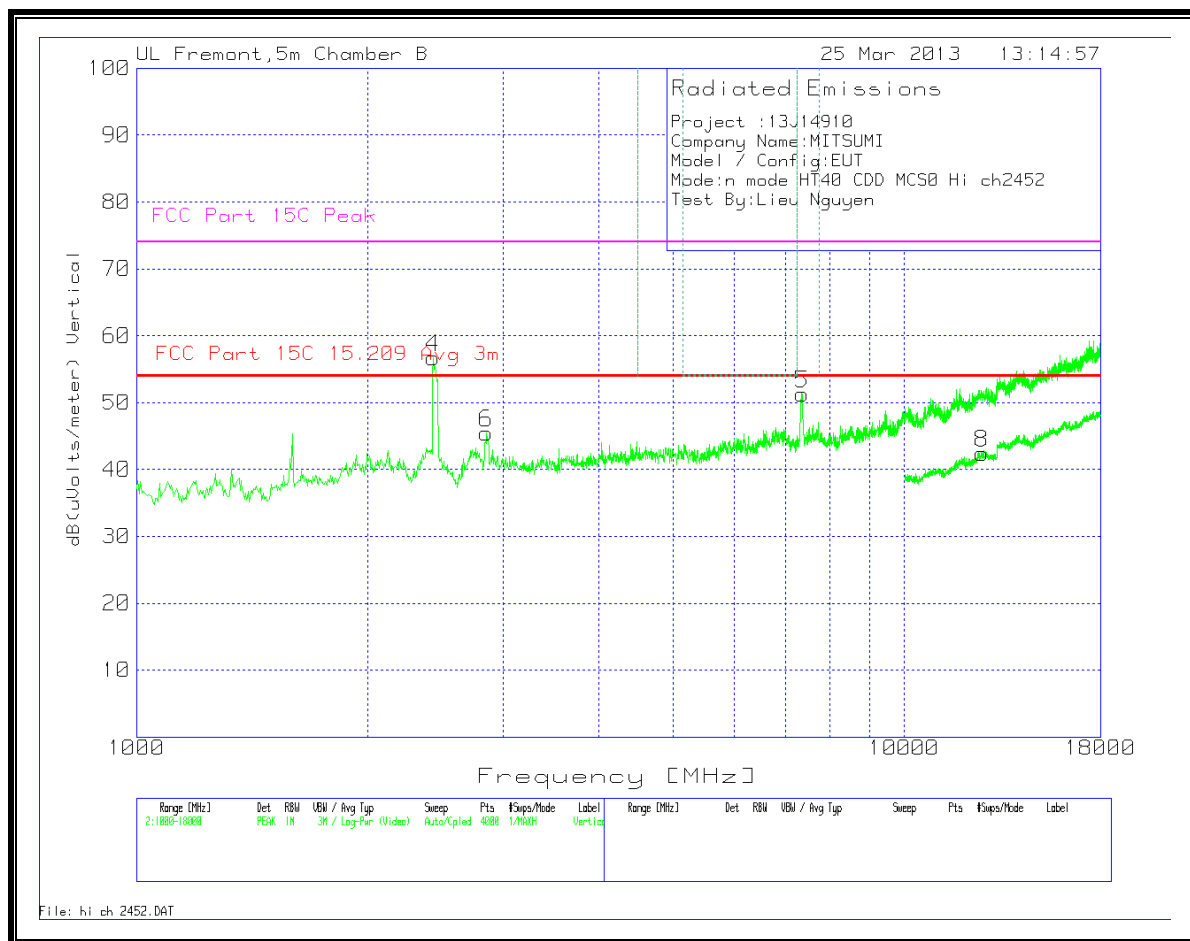
* Fundamental

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

**HIGH CHANNEL
HORIZONTAL**



VERTICAL



HIGH CHANNEL DATA

Project :13J14910
Company Name: MITSUMI
Model / Config: EUT
Mode: n mode HT40 CDD MCS0 Hi ch2452
Test By: Lieu Nguyen

Horizontal 1000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
1	2443.917	50.64	PK	32.4	-35	4.7	0.9	53.64	-	-	68.2	-14.56	153	Horz
2	2872.845	48.08	PK	32.9	-35.2	5.1	0.9	51.78	54	-2.22	74	-22.22	153	Horz
3	7523.108	37.15	PK	36	-35	9	0.3	47.45	54	-6.55	74	-26.55	153	Horz

Vertical 1000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
4	2435.423	53.73	PK	32.4	-35	4.7	0.9	56.73	-	-	68.2	-11.47	200	Vert
5	7357.482	41.18	PK	35.9	-35	8.9	0.3	51.28	54	-2.72	74	-22.72	200	Vert
6	2855.858	41.83	PK	32.9	-35.2	5.1	0.8	45.43	54	-8.57	74	-28.57	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
7	13394.303	24.19	PK	39.1	-31.9	12.3	0.4	44.09	54	-9.91	74	-29.91	200	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
8	12614.693	23.25	PK	39.2	-32.4	11.9	0.5	42.45	54	-11.55	74	-31.55	200	Vert

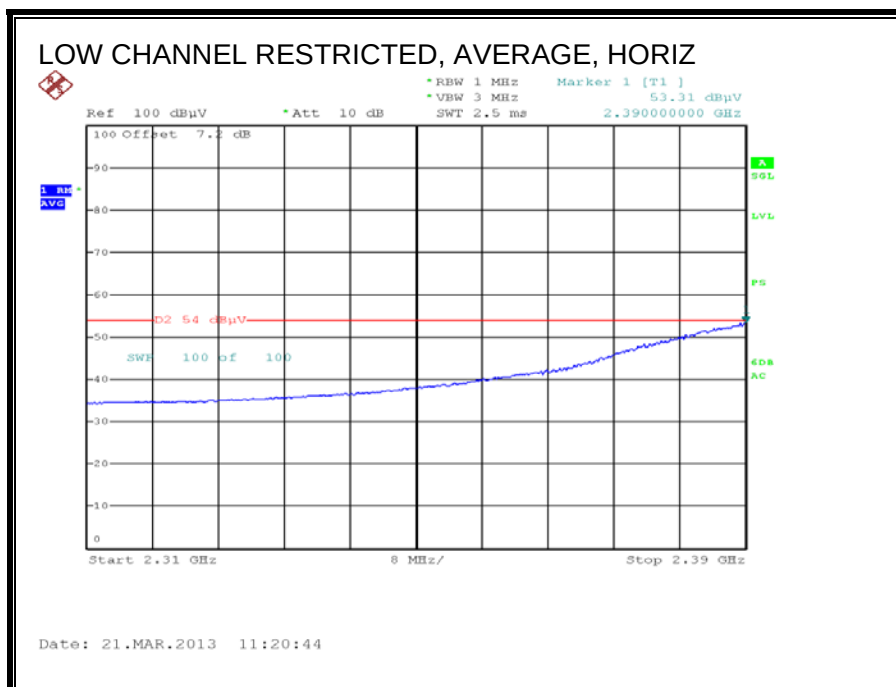
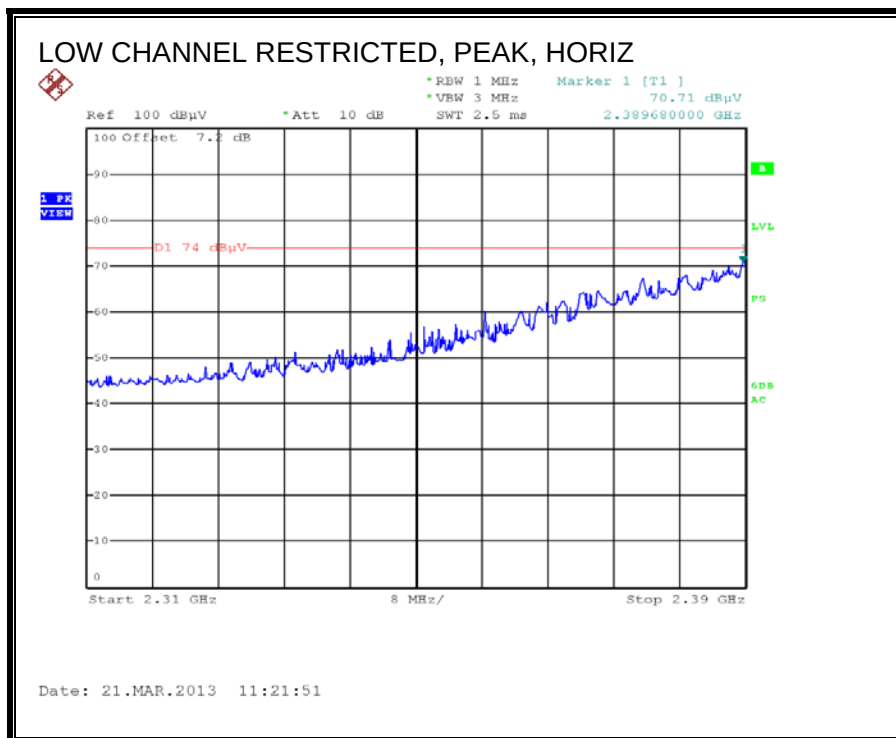
Average detector

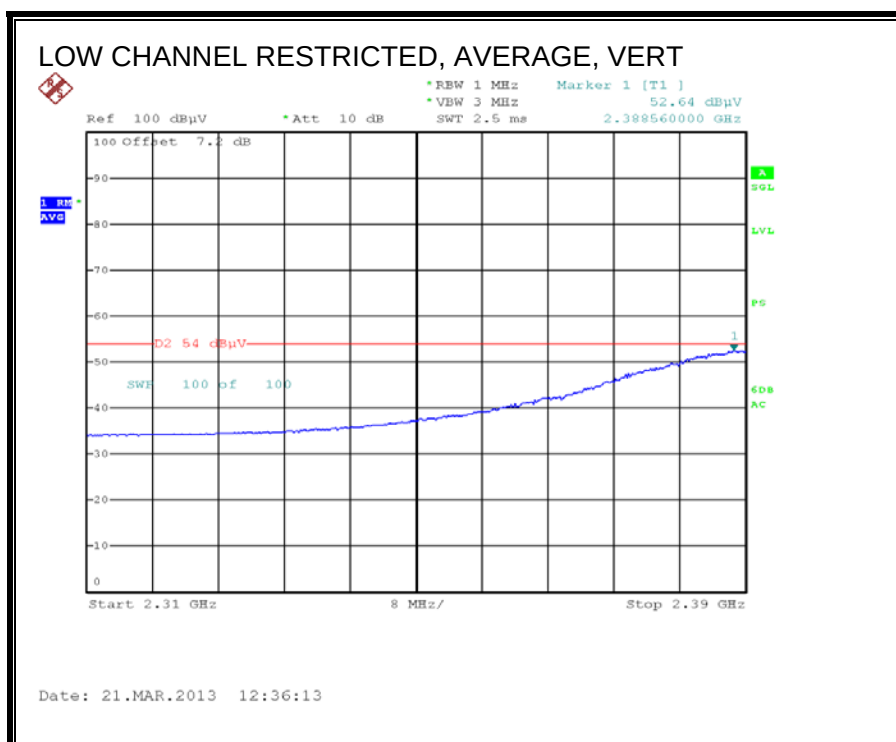
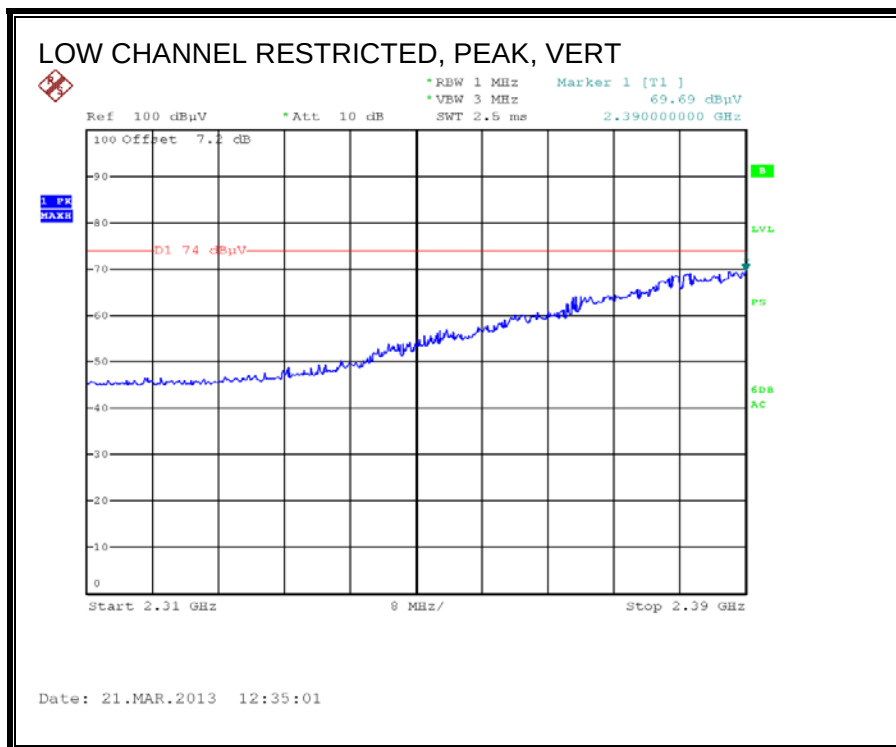
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	Preamp Gain	Cable Factor	T160 BRF	dB(uVolts /meter)	FCC Part 15C 15.209 Avg 3m	Margin	FCC Part 15C Peak	Margin	Height [cm]	Polarity
2	2872.77	38.32	Av	32.9	-35.2	5.1	0.9	42.02	54	-11.98	74	-31.98	217	Horz
5	7357	32.91	Av	35.9	-35	8.9	0.3	43.01	54	-10.99	74	-30.99	158	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

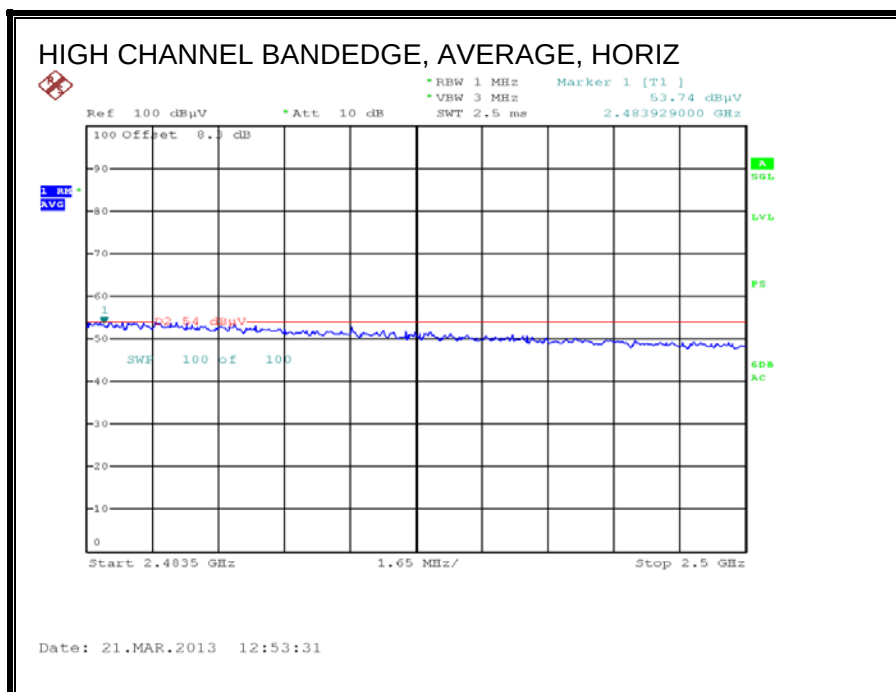
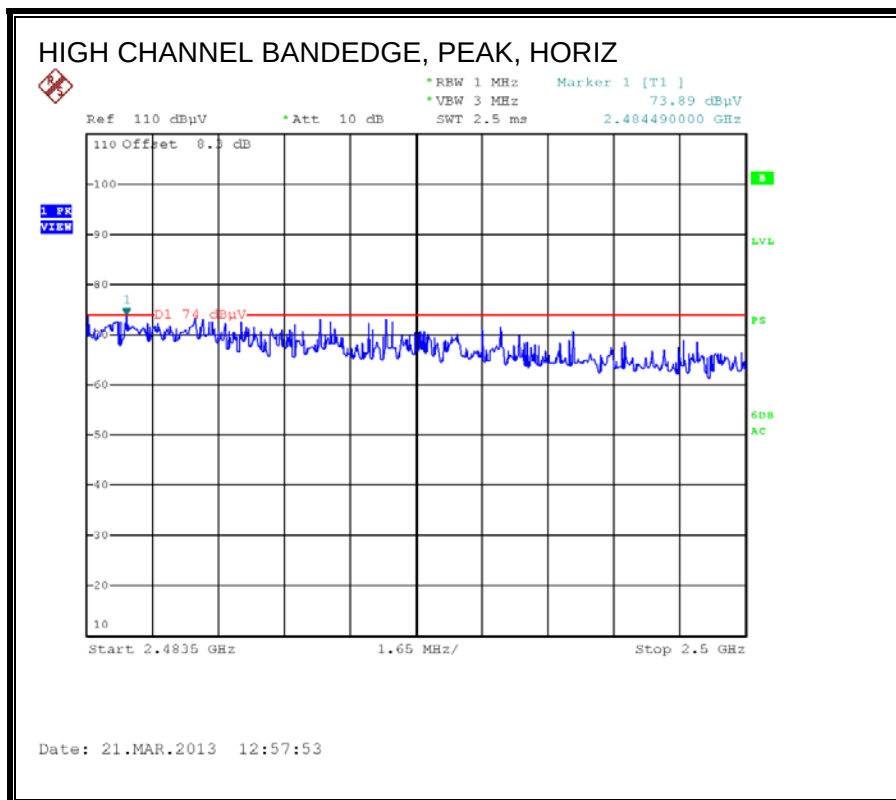
9.2.6 802.11n HT40 SDM MCS8 2TX MODE, 2.4 GHz BAND

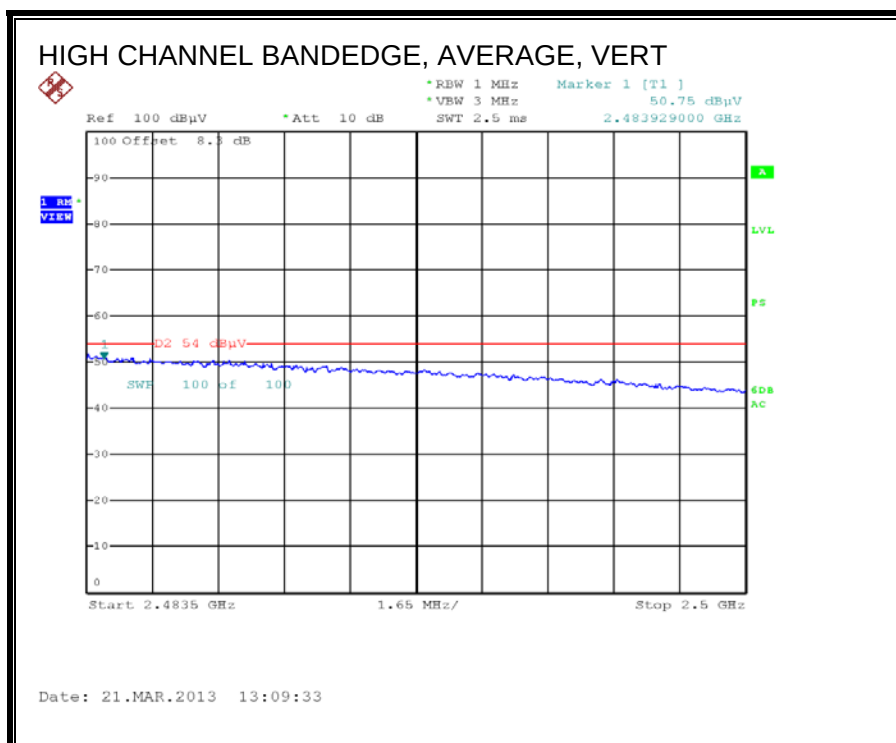
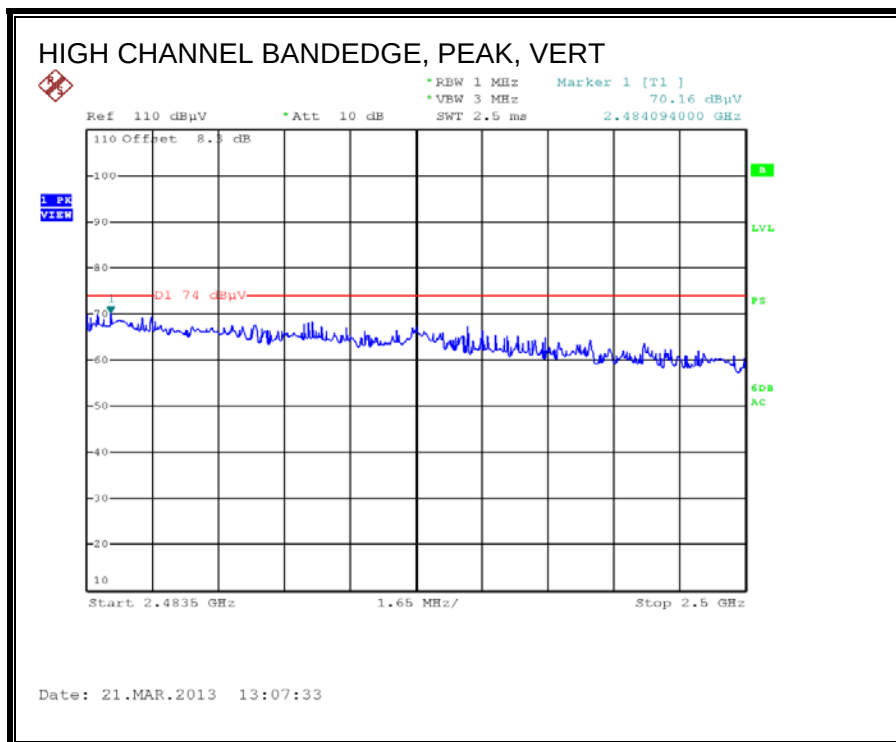
RESTRICTED BANDEDGE (LOW CHANNEL)





AUTHORIZED BANDEDGE (HIGH CHANNEL)

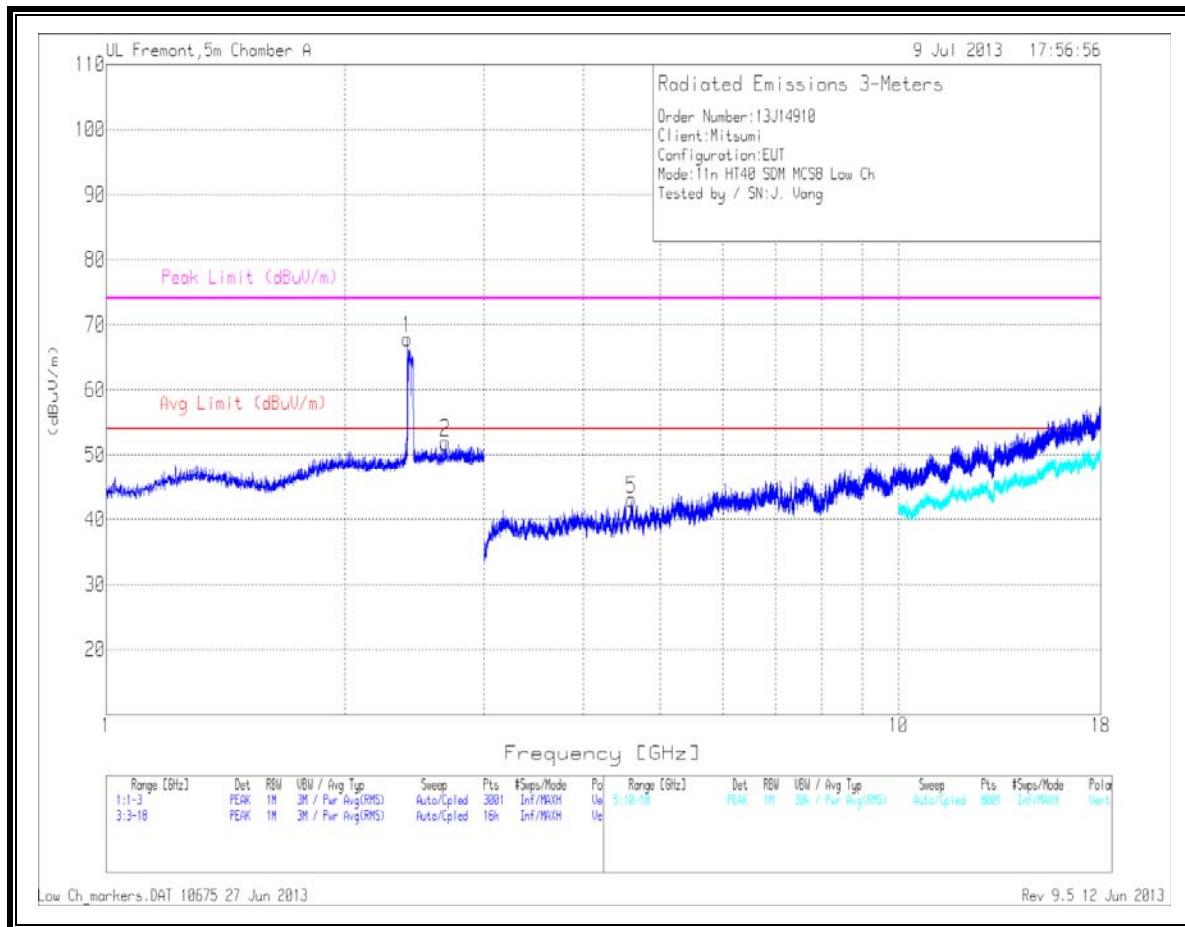




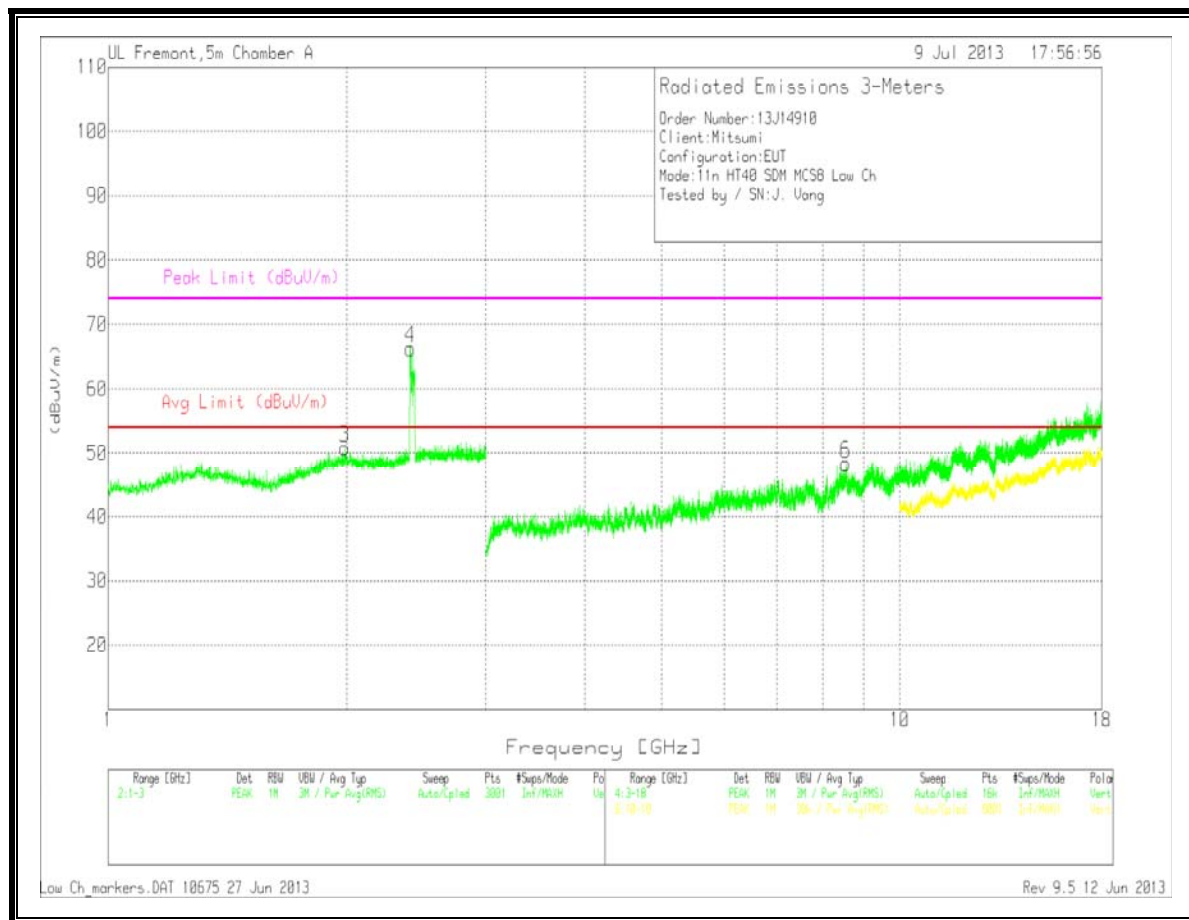
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



LOW CHANNEL DATA

Project :13J14910

Company Name:MITSUMI

Model / Config:EUT

Mode: 11n HT40 SDM MCS8 Low Ch

Test By: J. Vang

Frequenc (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*2.399	58.56	PK	32.1	-22.8	67.86	-	-	-	-	0-360	100	H
2.679	41.7	PK	32.7	-22.5	51.9	53.97	-2.07	74	-22.1	0-360	200	H
1.99	42.5	PK	31.9	-23.6	50.8	53.97	-3.17	74	-23.2	0-360	200	V
*2.408	56.95	PK	32.1	-22.8	66.25	-	-	-	-	0-360	200	V
4.604	36.65	PK	33.9	-27.5	43.05	53.97	-10.92	74	-30.95	0-360	100	H
8.546	38.15	PK	35.7	-25.5	48.35	53.97	-5.62	74	-25.65	0-360	100	V

Average detector

Frequenc (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.679	26.6	Av	32.7	-22.5	36.8	53.97	-17.17	-	-	261	337	H
1.989	27.38	Av	31.9	-23.6	35.68	53.97	-18.29	-	-	184	103	V
8.556	22.29	Av	35.7	-25.4	32.59	53.97	-21.38	-	-	346	154	V

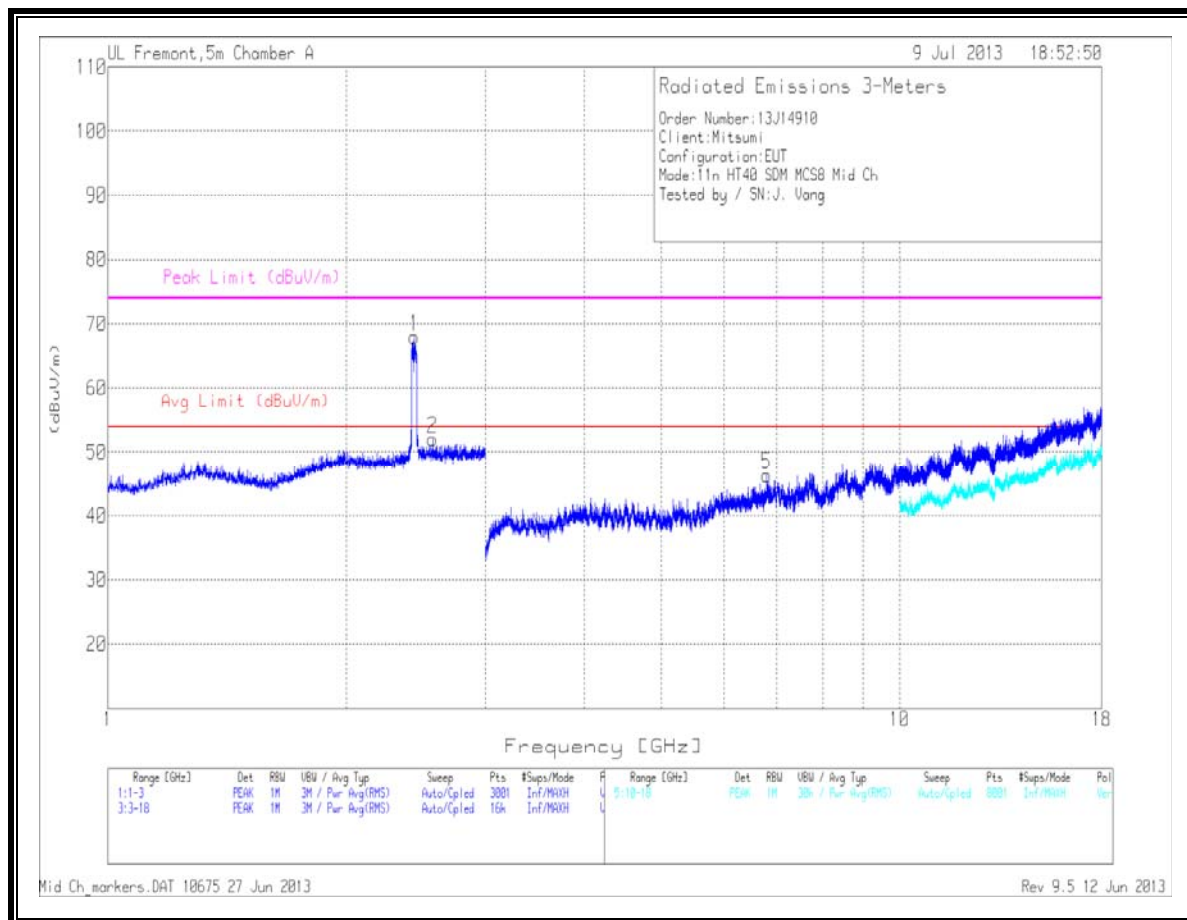
* Fundamental

PK - Peak detector

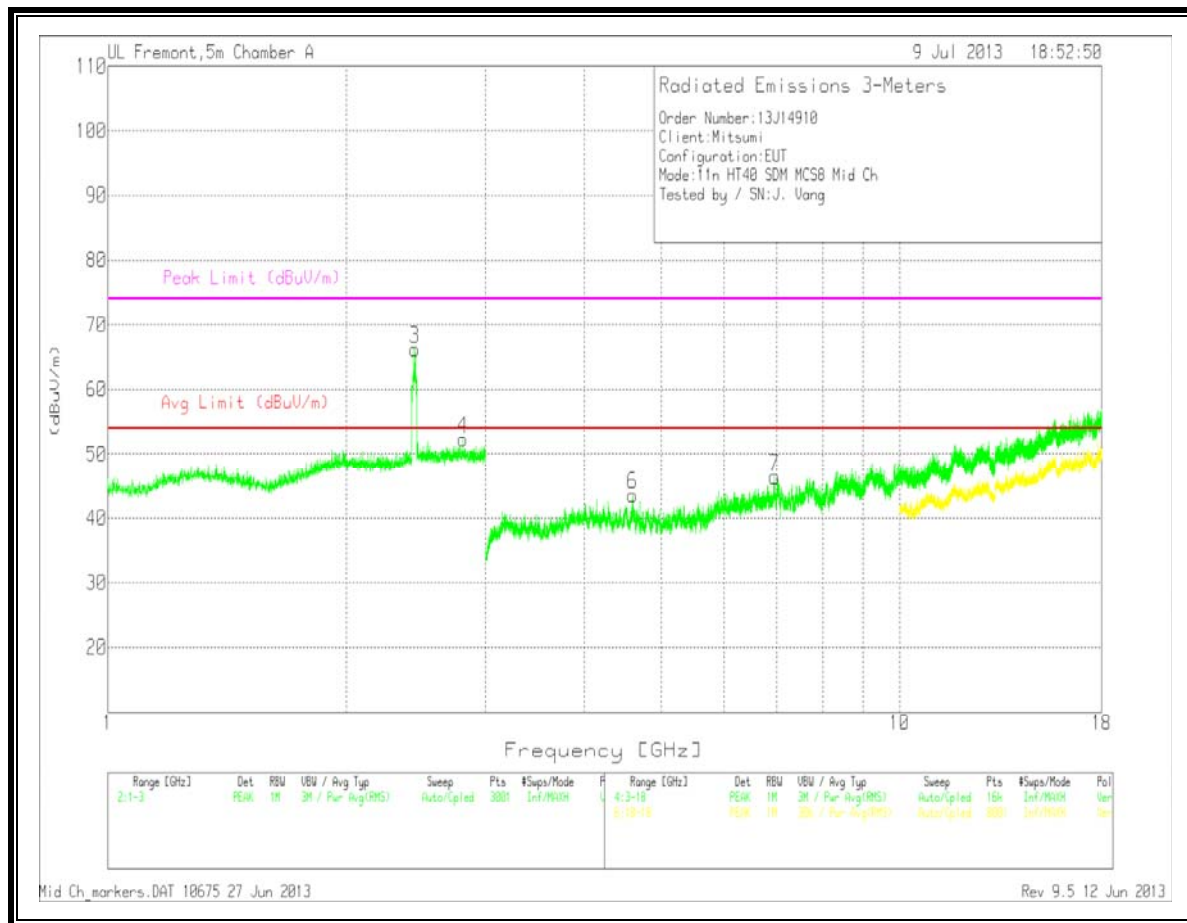
QP - Quasi-Peak detector

Av - Average detector

**MID CHANNEL
HORIZONTAL**



VERTICAL



MID CHANNEL DATA

Project :13J14910

Company Name: MITSUMI

Model / Config: EUT

Mode: 11n HT40 SDM MCS8 Mid Ch

Test By: J. Vang

Frequenc (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*2.439	58.49	PK	32.3	-22.8	67.99	-	-	-	-	0-360	200	H
2.573	42.08	PK	32.7	-22.7	52.08	53.97	-1.89	74	-21.92	0-360	200	H
*2.442	56.72	PK	32.3	-22.8	66.22	-	-	-	-	0-360	100	V
2.809	41.74	PK	32.6	-22	52.34	-	-	68.2	-15.86	0-360	200	V
6.794	38	PK	35.4	-27	46.4	53.97	-7.57	74	-27.6	0-360	100	H
4.6	37.17	PK	33.9	-27.5	43.57	53.97	-10.4	74	-30.43	0-360	200	V
6.952	37.15	PK	35.4	-26.1	46.45	53.97	-7.52	74	-27.55	0-360	200	V

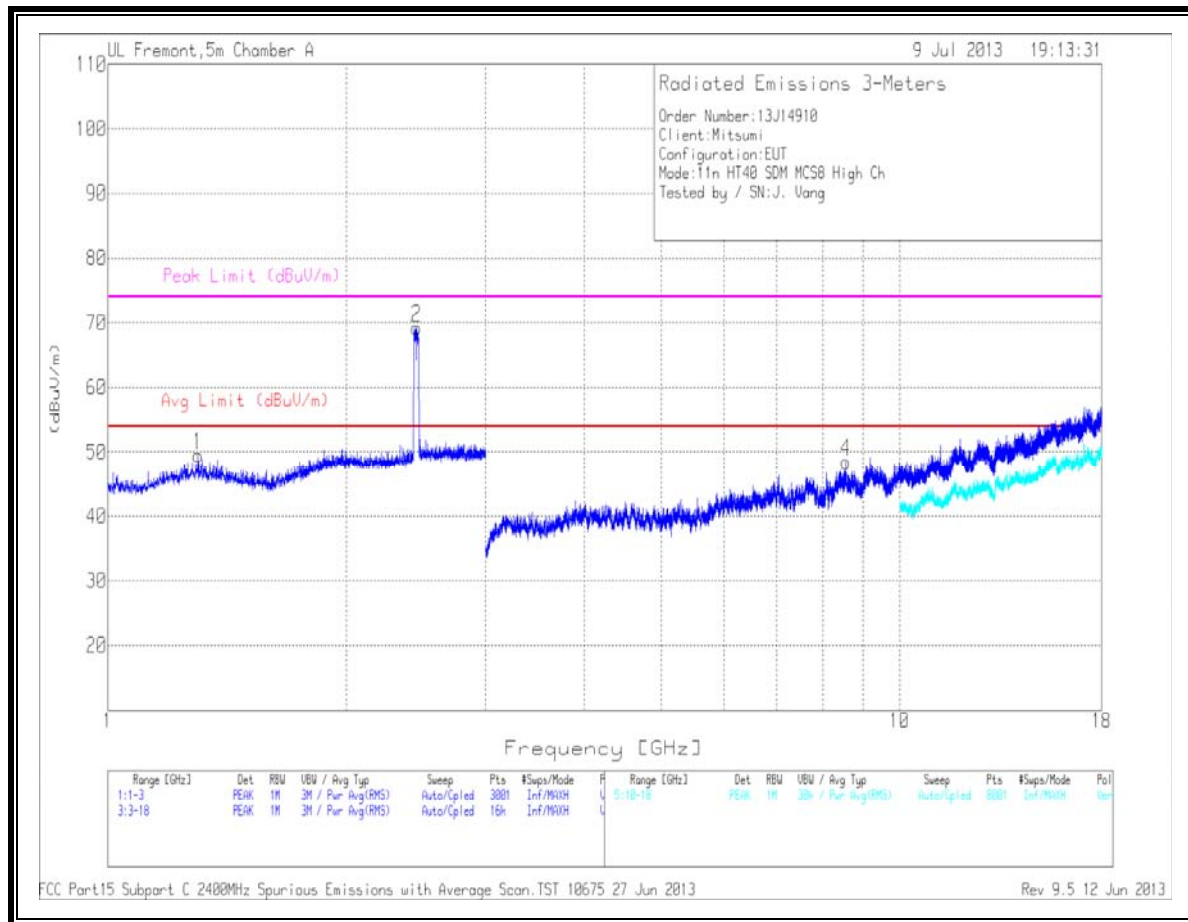
* Fundamental

PK - Peak detector

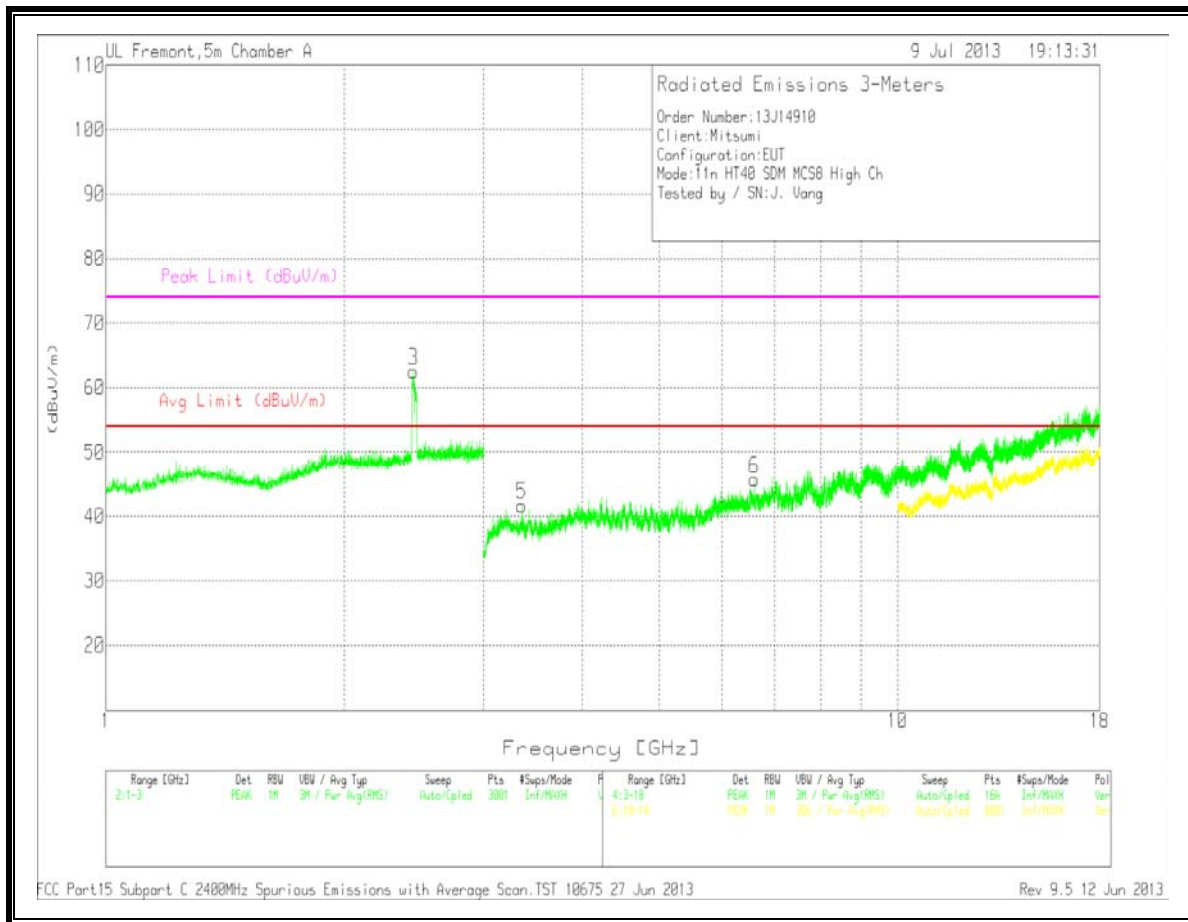
QP - Quasi-Peak detector

Av - Average detector

**HIGH CHANNEL
HORIZONTAL**



VERTICAL



HIGH CHANNEL DATA

Project :13J14910

Company Name: MITSUMI

Model / Config: EUT

Mode: 11n HT40 SDM MCS8 High Ch

Test By: J. Vang

Frequenc (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.3	44.34	PK	30.3	-25.1	49.54	53.97	-4.43	74	-24.46	0-360	200	H
*2.455	59.65	PK	32.4	-22.8	69.25	-	-	-	-	0-360	200	H
*2.447	53.03	PK	32.3	-22.8	62.53	-	-	-	-	0-360	200	V
8.557	38.2	PK	35.7	-25.4	48.5	53.97	-5.47	74	-25.5	0-360	100	H
3.353	38.77	PK	33	-30.1	41.67	53.97	-12.3	74	-32.33	0-360	200	V
6.593	37.14	PK	35.5	-26.9	45.74	53.97	-8.23	74	-28.26	0-360	100	V

Average detector

Frequenc (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.298	28.85	Av	30.3	-25.1	34.05	53.97	-19.92	-	-	123	237	H
8.556	22.33	Av	35.7	-25.4	32.63	53.97	-21.34	-	-	301	263	H

* Fundamental

PK - Peak detector

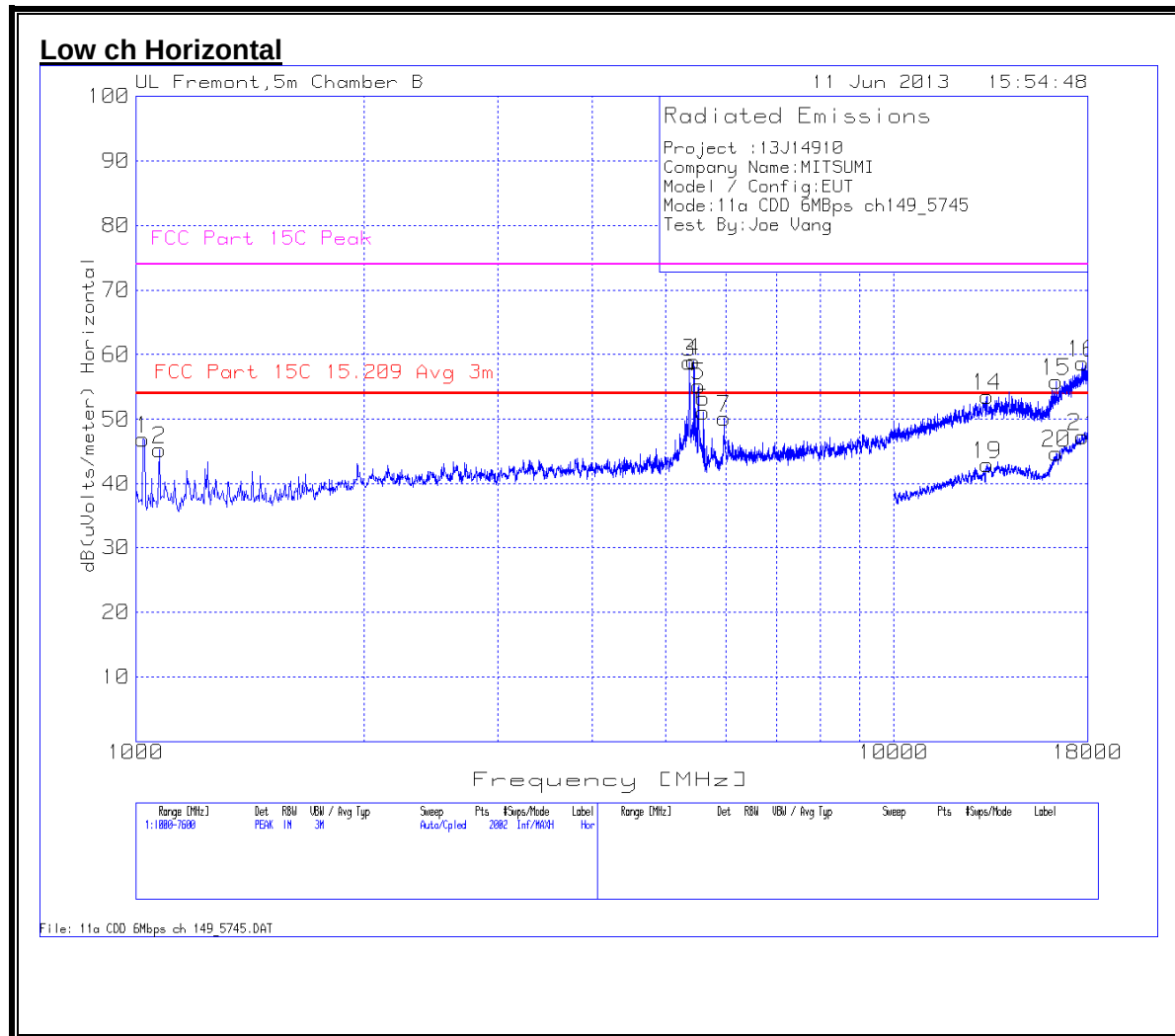
QP - Quasi-Peak detector

Av - Average detector

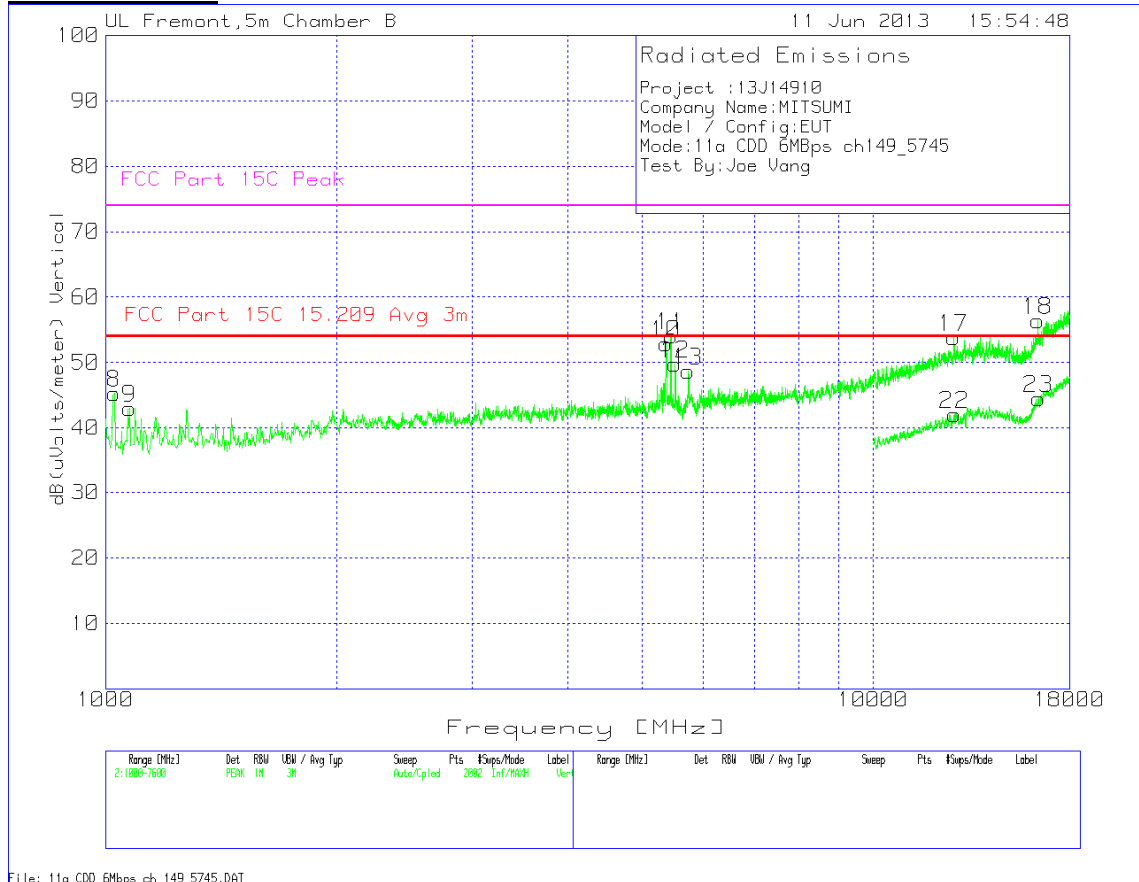
9.2.3 802.11a CDD 2TX MODE, 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Low ch Vertical



Low ch data

Project :13J14910
Company Name: MITSUMI
Model / Config: EUT
Mode: 11a CDD 6MBps ch149_5745
Test By: Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1023.088	52.08	PK	27.5	-36	3.2	0.1	46.88	53.97	-7.09	74	-27.12	100	Horz
2	1075.862	50.16	PK	27.8	-35.9	3.2	0.1	45.36	53.97	-8.61	74	-28.64	100	Horz
3	5367.016	51.24	PK	34.9	-34.9	7.5	0.1	58.84	53.97	4.87	74	-15.16	100	Horz
4	5446.177	51.38	PK	34.9	-34.9	7.5	0.1	58.98	53.97	5.01	74	-15.02	100	Horz
5	5525.337	47.48	PK	34.9	-34.9	7.6	0.1	55.18	-	-	68.2	-13.02	100	Horz
6	5601.199	43.22	PK	35	-34.9	7.7	0.1	51.12	-	-	68.2	-17.08	100	Horz
7	5970.615	41.29	PK	35.8	-34.9	7.9	0.1	50.19	-	-	68.2	-18.01	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	1026.387	50.47	PK	27.5	-36	3.2	0.1	45.27	53.97	-8.7	74	-28.73	200	Vert
9	1075.862	47.83	PK	27.8	-35.9	3.2	0.1	43.03	53.97	-10.94	74	-30.97	100	Vert
10	5370.315	45.26	PK	34.9	-34.9	7.5	0.1	52.86	53.97	-1.11	74	-21.14	100	Vert
11	5449.475	46.55	PK	34.9	-34.9	7.5	0.1	54.15	53.97	0.18	74	-19.85	100	Vert
12	5518.741	42.07	PK	34.9	-34.9	7.6	0.1	49.77	-	-	68.2	-18.43	100	Vert
*13	5743.028	40.53	PK	35.2	-34.9	7.8	0.1	48.73	-	-	-	-	100	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
14	13280.76	33.39	PK	39.1	-31.9	12.3	0.7	53.59	-	-	74	-20.41	200	Horz
15	16388.806	32.52	PK	41.4	-32.5	13.9	0.6	55.92	-	-	68.2	-18.08	100	Horz
16	17750.525	33.06	PK	42.2	-31.4	14.7	0.2	58.76	-	-	74	-15.24	200	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
17	12735.032	34.62	PK	39.2	-32.2	12	0.2	53.82	-	-	68.2	-20.18	100	Vert
18	16388.806	32.96	PK	41.4	-32.5	13.9	0.6	56.36	-	-	68.2	-17.64	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
19	13274.363	23.05	PK	39.1	-31.9	12.2	0.6	43.05	53.97	-10.92	74	-30.95	100	Horz
20	16392.804	21.27	PK	41.4	-32.5	14	0.6	44.77	-	-	68.2	-29.23	100	Horz
21	17736.132	21.58	PK	42.2	-31.4	14.7	0.3	47.38	53.97	-6.59	74	-26.62	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
22	12750.625	22.71	PK	39.2	-32.2	12	0.3	42.01	-	-	68.2	-31.99	100	Vert
23	16396.802	20.97	PK	41.4	-32.5	14	0.6	44.47	-	-	68.2	-29.53	200	Vert

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	5367.2532	32.64	Av	34.9	-34.9	7.5	0.1	40.24	53.97	-13.73	-	-	141	Horz
4	5447.9493	33.55	Av	34.9	-34.9	7.5	0.1	41.15	53.97	-12.82	-	-	141	Horz

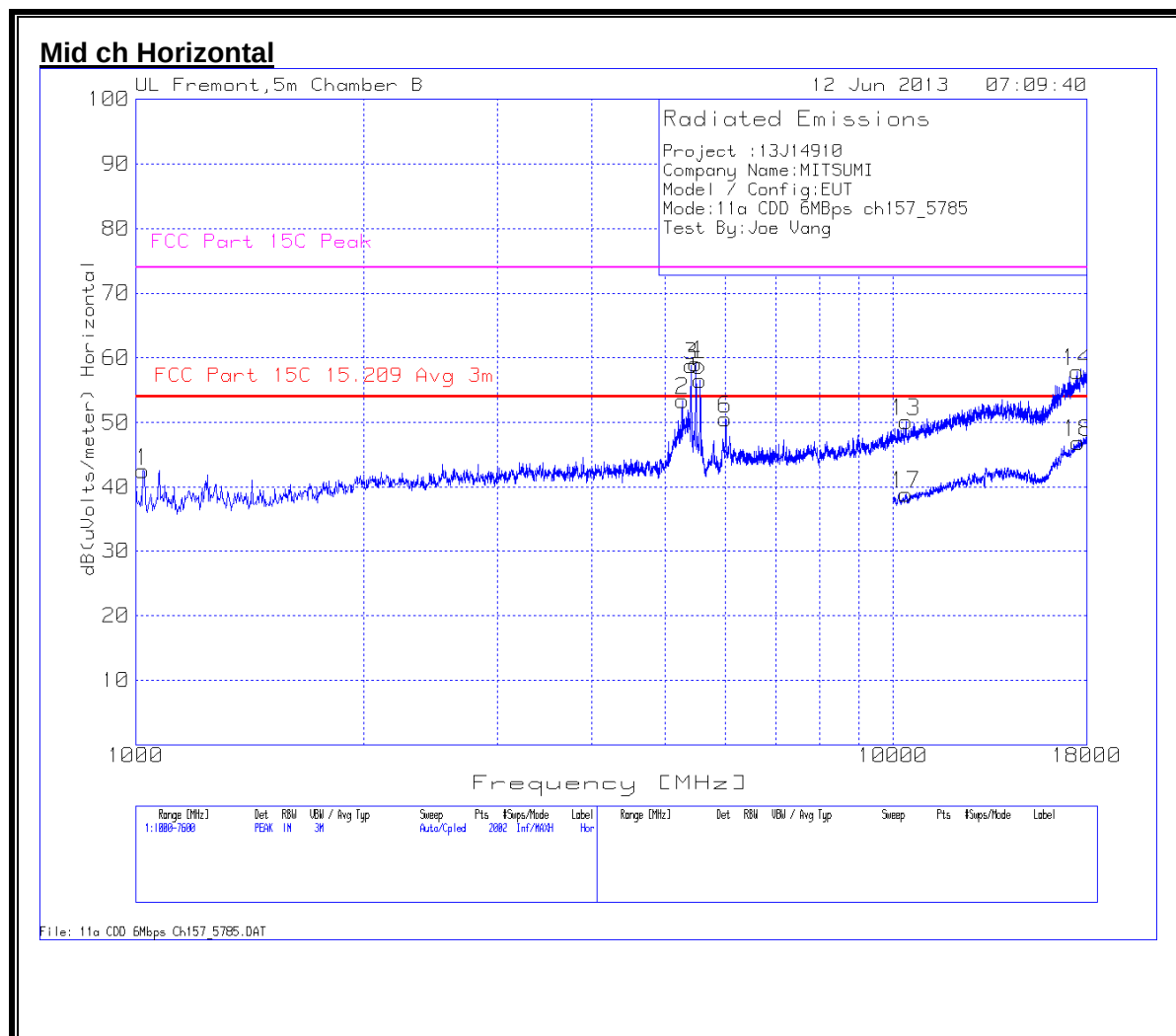
Vertical 1000 - 7600MHz

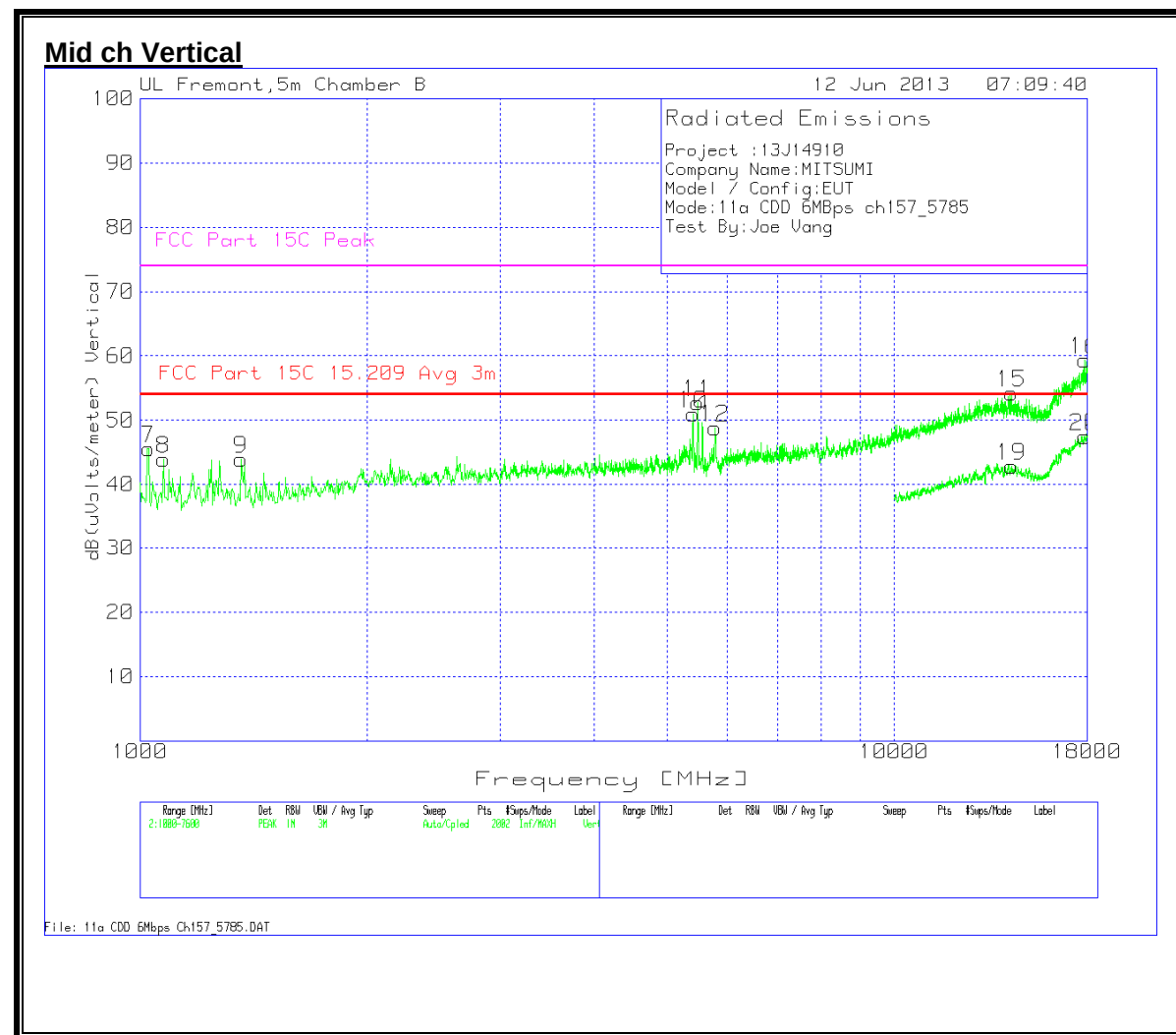
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	5368.7714	29.71	Av	34.9	-34.9	7.5	0.1	37.31	53.97	-16.66	-	-	273	Vert
11	5449.8266	28.94	Av	34.9	-34.9	7.5	0.1	36.54	53.97	-17.43	-	-	264	Vert

* Fundamental

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

MID CHANNEL





Mid ch data

Project :13J14910
Company Name:MITSUMI
Model / Config:EUT
Mode:11a CDD 6MBps ch157_5785 MHz
Test By:Joe Vang

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1023.088	47.73	PK	27.5	-36	3.2	0.1	42.53	53.97	-11.44	74	-31.47	133	Horz
2	5268.066	45.88	PK	34.9	-34.9	7.4	0.1	53.38	-	-	68.2	-14.82	133	Horz
3	5413.193	51.29	PK	34.9	-34.9	7.5	0.1	58.89	53.97	4.92	74	-15.11	133	Horz
4	5482.459	51.46	PK	34.9	-34.9	7.6	0.1	59.16	-	-	68.2	-9.04	133	Horz
5	5555.022	48.7	PK	35	-34.9	7.6	0.1	56.5	-	-	68.2	-11.7	133	Horz
6	6010.195	41.44	PK	35.9	-34.9	8	0.1	50.54	-	-	68.2	-17.66	133	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	1026.387	50.82	PK	27.5	-36	3.2	0.1	45.62	53.97	-8.35	74	-28.38	200	Vert
8	1075.862	48.76	PK	27.8	-35.9	3.2	0.1	43.96	53.97	-10.01	74	-30.04	200	Vert
9	1362.819	47.41	PK	28.4	-35.4	3.5	0.1	44.01	53.97	-9.96	74	-29.99	100	Vert
10	5409.895	43.39	PK	34.9	-34.9	7.5	0.1	50.99	53.97	-2.98	74	-23.01	100	Vert
11	5485.757	45.06	PK	34.9	-34.9	7.6	0.1	52.76	-	-	68.2	-15.44	100	Vert
*12	5785.907	40.51	PK	35.3	-34.9	7.8	0.1	48.81	-	-	-	-	100	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
13	10391.004	35.57	PK	38.1	-34.5	10.7	0.3	50.17	-	-	68.2	-18.03	100	Horz
14	17495.852	32.64	PK	42	-31.5	14.6	0.1	57.84	-	-	68.2	-10.36	200	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
15	14299.45	34.1	PK	39.5	-32.4	12.8	0.3	54.3	-	-	68.2	-13.9	200	Vert
16	17870.065	33.31	PK	42.2	-31.3	14.8	0.4	59.41	-	-	74	-14.59	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
17	10395.802	24.3	PK	38.1	-34.5	10.7	0.3	38.9	-	-	68.2	-29.3	200	Horz
18	17528.236	21.32	PK	42	-31.5	14.6	0.5	46.92	-	-	68.2	-21.28	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T193 HPF	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
19	14305.847	22.65	PK	39.5	-32.4	12.8	0.3	42.85	-	-	68.2	-25.35	200	Vert
20	17848.076	21.4	PK	42.2	-31.3	14.7	0.5	47.5	-	-	68.2	-20.7	100	Vert

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	5412.5251	31.4	Av	34.9	-34.9	7.5	0.1	39	53.97	-14.97	-	-	126	Horz

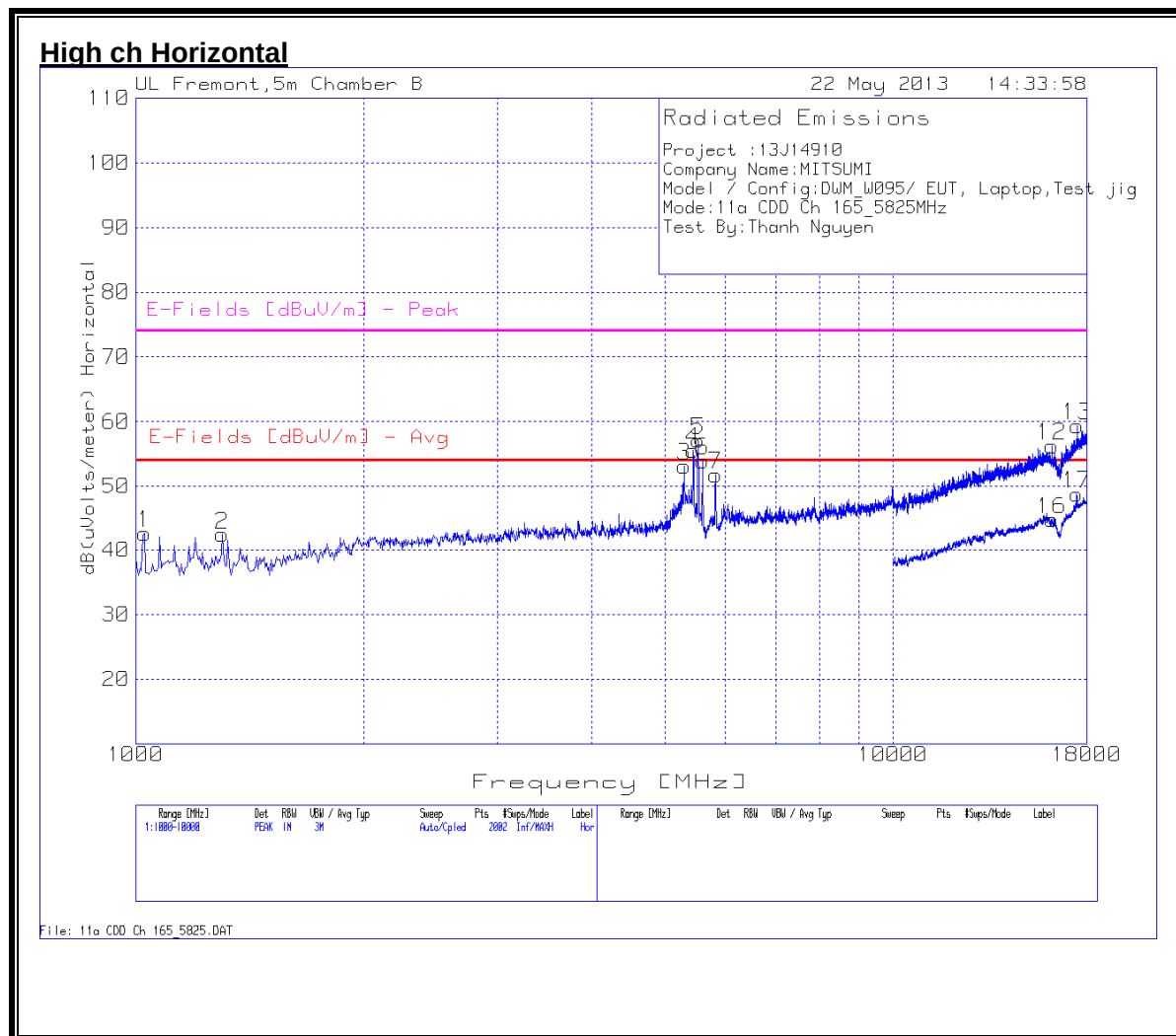
Vertical 1000 - 7600MHz

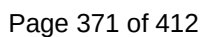
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 1-20GHz 5730-5840MHz Band	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	4309.4064	12.78	Av	34.2	-34.9	6.5	0.1	18.68	53.97	-35.29	-	-	291	Vert

* Fundamental

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

HIGH CHANNEL





High ch data

Project :13J14910
Company Name: MITSUMI
Model / Config: DWM_W095/ EUT, Laptop, Test jig
Mode: 11a CDD Ch 165_5825MHz
Test By: Thanh Nguyen

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1026.987	47.75	PK	27.5	-36	3.2	0.1	42.55	53.97	-11.42	74	-31.45	100	Horz
2	1301.349	45.78	PK	28.5	-35.5	3.5	0.1	42.38	53.97	-11.59	74	-31.62	100	Horz
3	5299.85	45.68	PK	34.9	-34.9	7.4	0.1	53.18	-	-	68.2	-20.82	100	Horz
4	5448.276	48	PK	34.9	-34.9	7.5	0.1	55.6	53.97	1.63	74	-18.4	200	Horz
5	5526.987	49.43	PK	34.9	-34.9	7.6	0.1	57.13	-	-	68.2	-16.87	200	Horz
6	5601.199	46.04	PK	35	-34.9	7.7	0.1	53.94	-	-	68.2	-20.06	100	Horz
*7	5830.585	43.35	PK	35.4	-34.9	7.8	0.1	51.75	-	-	-	-	200	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	1175.412	50.63	PK	28.2	-35.7	3.3	0.1	46.53	53.97	-7.44	74	-27.47	300	Vert
9	1323.838	46.6	PK	28.5	-35.5	3.5	0.1	43.2	53.97	-10.77	74	-30.8	200	Vert
10	5452.774	43.05	PK	34.9	-34.9	7.5	0.1	50.65	53.97	-3.32	74	-23.35	200	Vert
11	5529.235	44.4	PK	34.9	-34.9	7.6	0.1	52.1	-	-	68.2	-21.9	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
12	16204.898	33.52	PK	41.4	-32.7	13.8	0.2	56.22	-	-	68.2	-17.78	200	Horz
13	17480.26	34.21	PK	42	-31.6	14.5	0.2	59.31	-	-	68.2	-14.69	400	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
14	13910.045	34.05	PK	39.2	-32.1	12.6	0.2	53.95	-	-	68.2	-20.05	400	Vert
15	17472.264	33.58	PK	42	-31.6	14.5	0.2	58.68	-	-	68.2	-15.32	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
16	16196.902	22.03	PK	41.4	-32.7	13.8	0.2	44.73	53.97	-9.24	74	-29.27	400	Horz
17	17472.264	23.73	PK	42	-31.6	14.5	0.2	48.83	-	-	68.2	-25.17	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
18	13882.059	22.95	PK	39.2	-32.1	12.6	0.2	42.85	-	-	68.2	-31.15	400	Vert
19	17472.264	24.01	PK	42	-31.6	14.5	0.2	49.11	-	-	68.2	-24.89	100	Vert

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
4	5447.946	42.94	Av	34.9	-34.9	7.5	0.1	50.54	53.97	-3.43	-	-	148	Horz

Vertical 1000 - 10000MHz

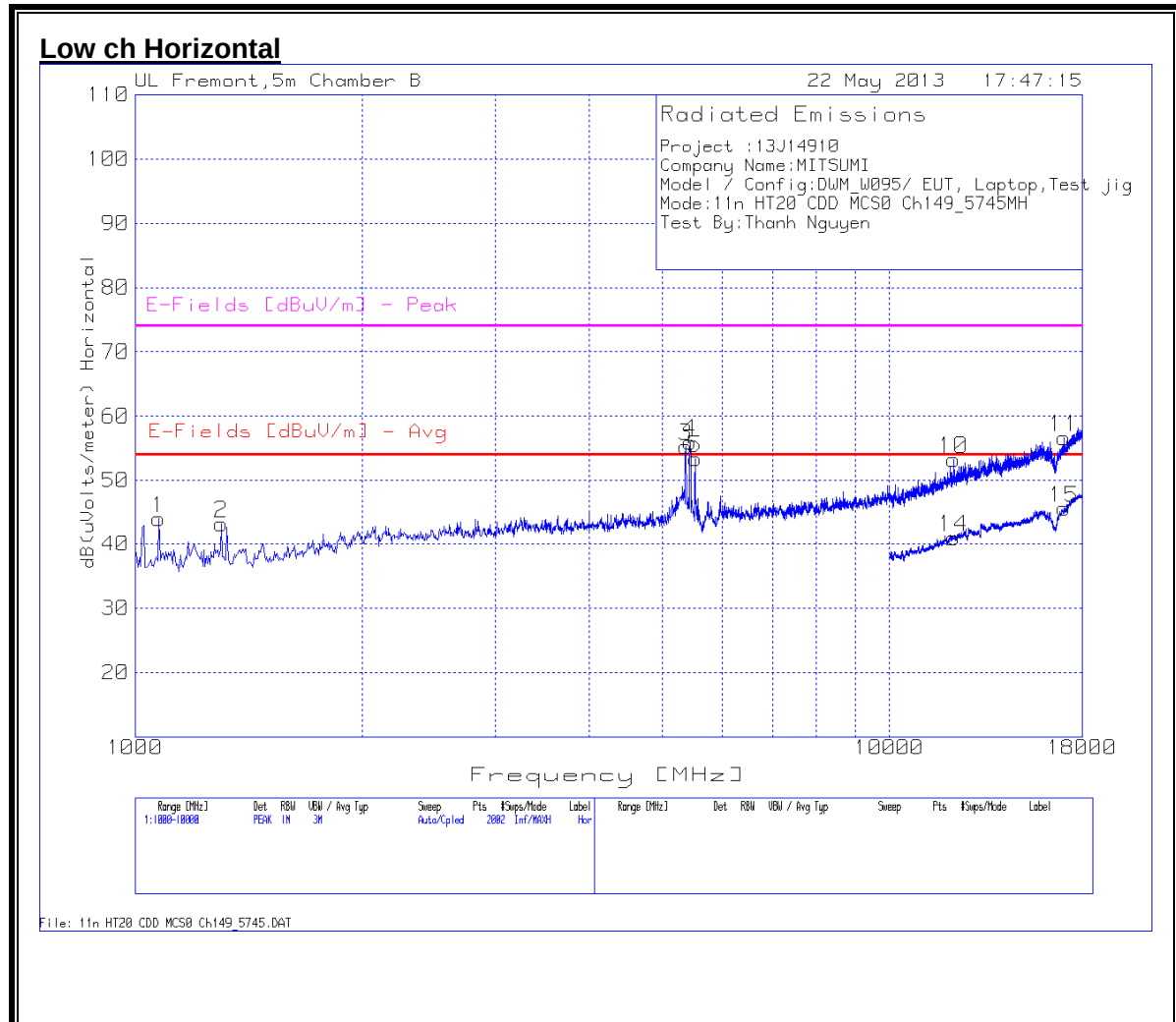
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	5482.36	34.97	Av	34.9	-34.9	7.6	0.1	42.67	53.97	-11.3	-	-	209	Vert

* Fundamental

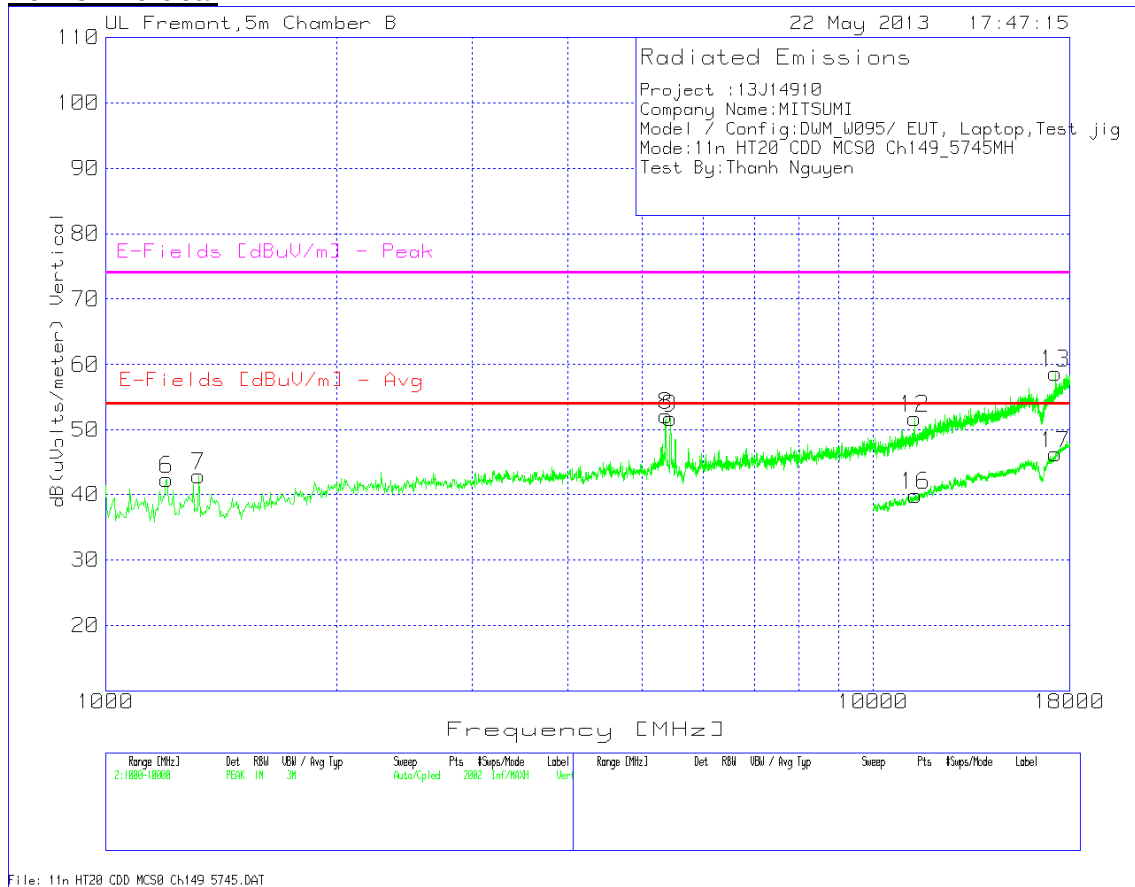
PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

9.2.4 802.11n HT20 CDD MCS0 MODE, 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS



Low ch Vertical



LOW CHANNEL DATA

Project :13J14910
Company Name: MITSUMI
Model / Config: DWM_W095/ EUT, Laptop, Test jig
Mode: 11n HT20 CDD MCS0 Ch149_5745MHz
Test By: Thanh Nguyen

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
1	1076.462	48.7	PK	27.8	-35.9	3.2	0.1	43.9	53.97	-10.07	74	-30.1	100	Horz
2	1301.349	46.52	PK	28.5	-35.5	3.5	0.1	43.12	53.97	-10.85	74	-30.88	100	Horz
3	5371.814	47.7	PK	34.9	-34.9	7.5	0.1	55.3	53.97	1.33	74	-18.7	100	Horz
4	5448.276	48.34	PK	34.9	-34.9	7.5	0.1	55.94	53.97	1.97	74	-18.06	100	Horz
5	5529.235	45.75	PK	34.9	-34.9	7.6	0.1	53.45	-	-	68.2	-14.75	100	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
6	1202.399	46.08	PK	28.4	-35.7	3.4	0.1	42.28	53.97	-11.69	74	-31.72	200	Vert
7	1323.838	46.22	PK	28.5	-35.5	3.5	0.1	42.82	53.97	-11.15	74	-31.18	200	Vert
8	5371.814	44.62	PK	34.9	-34.9	7.5	0.1	52.22	53.97	-1.75	74	-21.78	300	Vert
9	5443.778	44.18	PK	34.9	-34.9	7.5	0.1	51.78	53.97	-2.19	74	-22.22	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
10	12166.917	35.32	PK	39.2	-33.1	11.6	0.2	53.22	-	-	74	-20.78	100	Horz
11	17032.484	32.47	PK	41.5	-31.8	14.3	0.2	56.67	-	-	68.2	-11.53	400	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
12	11323.338	35.51	PK	38.6	-33.7	11.2	0.2	51.81	-	-	74	-22.19	300	Vert
13	17280.36	34.17	PK	41.6	-31.7	14.4	0.2	58.67	-	-	74	-15.33	400	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
14	12166.917	23.08	PK	39.2	-33.1	11.6	0.2	40.98	53.97	-12.99	-	-	200	Horz
15	17020.49	21.32	PK	41.5	-31.8	14.3	0.2	45.52	-	-	74	68.2	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
16	11339.33	23.61	PK	38.6	-33.7	11.2	0.2	39.91	53.97	-14.06	-	-	400	Vert
17	17260.37	21.69	PK	41.6	-31.7	14.4	0.2	46.19	-	-	74	68.2	100	Vert

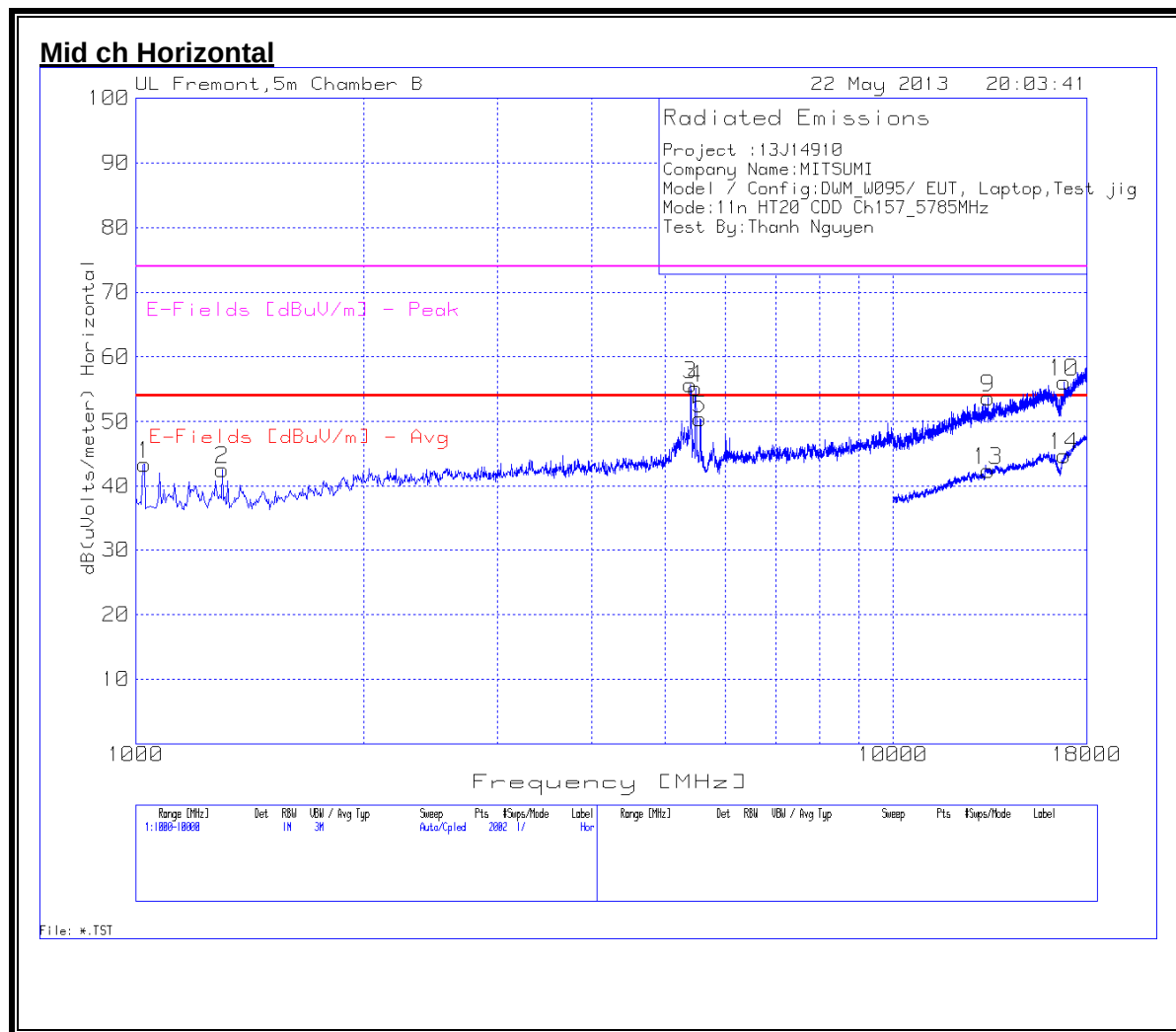
Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
3	5483.056	39.22	Av	34.9	-34.9	7.6	0.1	46.92	53.97	-7.05	-	-	152	Horz
4	5488.046	39.1	Av	34.9	-34.9	7.6	0.1	46.8	53.97	-7.17	-	-	117	Horz

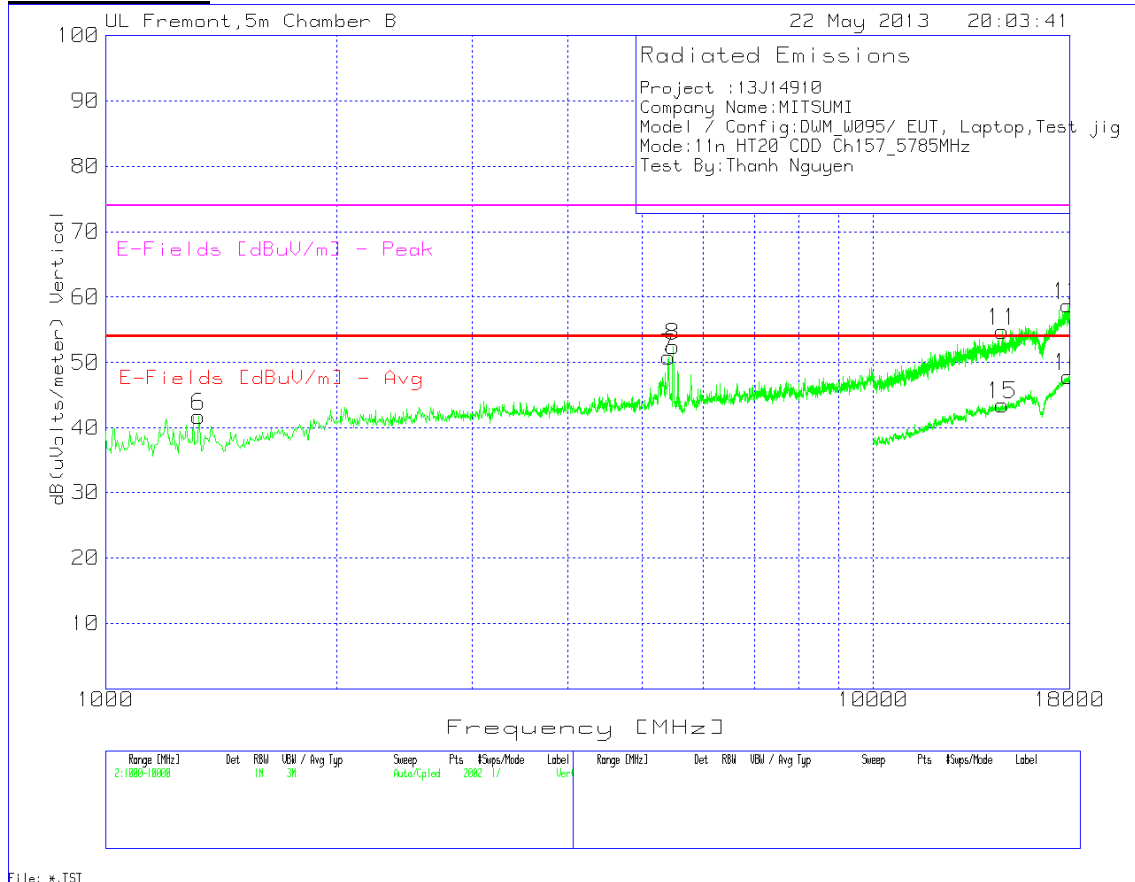
Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	dB(uVolts/meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
8	5447.093	21.66	Av	34.9	-34.9	7.5	0.1	29.26	53.97	-24.71	-	-	370	Vert
9	5490.375	25.88	Av	34.9	-34.9	7.6	0.1	33.58	53.97	-20.39	-	-	355	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector



Mid ch Vertical



MID CHANNEL DATA

Project :13J14910
Company Name:MITSUMI
Model / Config:DWM_W095/ EUT, Laptop,Test jig
Mode:11n HT20 CDD Ch157_5785MHz
Test By:Thanh Nguyen

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
1	1026.987	48.65	PK	27.5	-36	3.2	0.1	43.45	53.97	-10.52	74	-30.55	100	Horz
2	1301.349	45.94	PK	28.5	-35.5	3.5	0.1	42.54	53.97	-11.43	74	-31.46	100	Horz
3	5403.298	48.09	PK	34.9	-34.9	7.5	0.1	55.69	53.97	1.72	74	-18.31	100	Horz
4	5484.258	47.5	PK	34.9	-34.9	7.6	0.1	55.2	-	-	68.2	-13	100	Horz
5	5565.217	42.66	PK	35	-34.9	7.6	0.1	50.46	-	-	68.2	-17.74	100	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
6	1323.838	45.14	PK	28.5	-35.5	3.5	0.1	41.74	53.97	-12.23	74	-32.26	200	Vert
7	5412.294	43.24	PK	34.9	-34.9	7.5	0.1	50.84	53.97	-3.13	74	-23.16	200	Vert
8	5484.258	44.77	PK	34.9	-34.9	7.6	0.1	52.47	-	-	68.2	-15.73	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
9	13346.327	34.04	PK	39.1	-31.9	12.3	0.2	53.74	-	-	74	-20.26	200	Horz
10	16808.596	32.15	PK	41.6	-32	14.2	0.2	56.15	-	-	68.2	-17.85	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
11	14725.637	34.48	PK	39.8	-32.7	13	0.2	54.78	-	-	68.2	-19.22	100	Vert
12	17940.03	32.87	PK	42.2	-31.3	14.8	0.2	58.77	-	-	74	-15.23	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
13	13342.329	22.8	PK	39.1	-31.9	12.3	0.2	42.5	53.97	-11.47	74	-31.5	100	Horz
14	16826.587	20.77	PK	41.6	-32	14.2	0.2	44.77	-	-	68.2	-23.43	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
15	14705.647	23.27	PK	39.8	-32.7	13	0.2	43.57	-	-	68.2	-24.63	100	Vert
16	17948.026	21.92	PK	42.2	-31.3	14.8	0.2	47.82	53.97	-6.15	74	-26.18	200	Vert

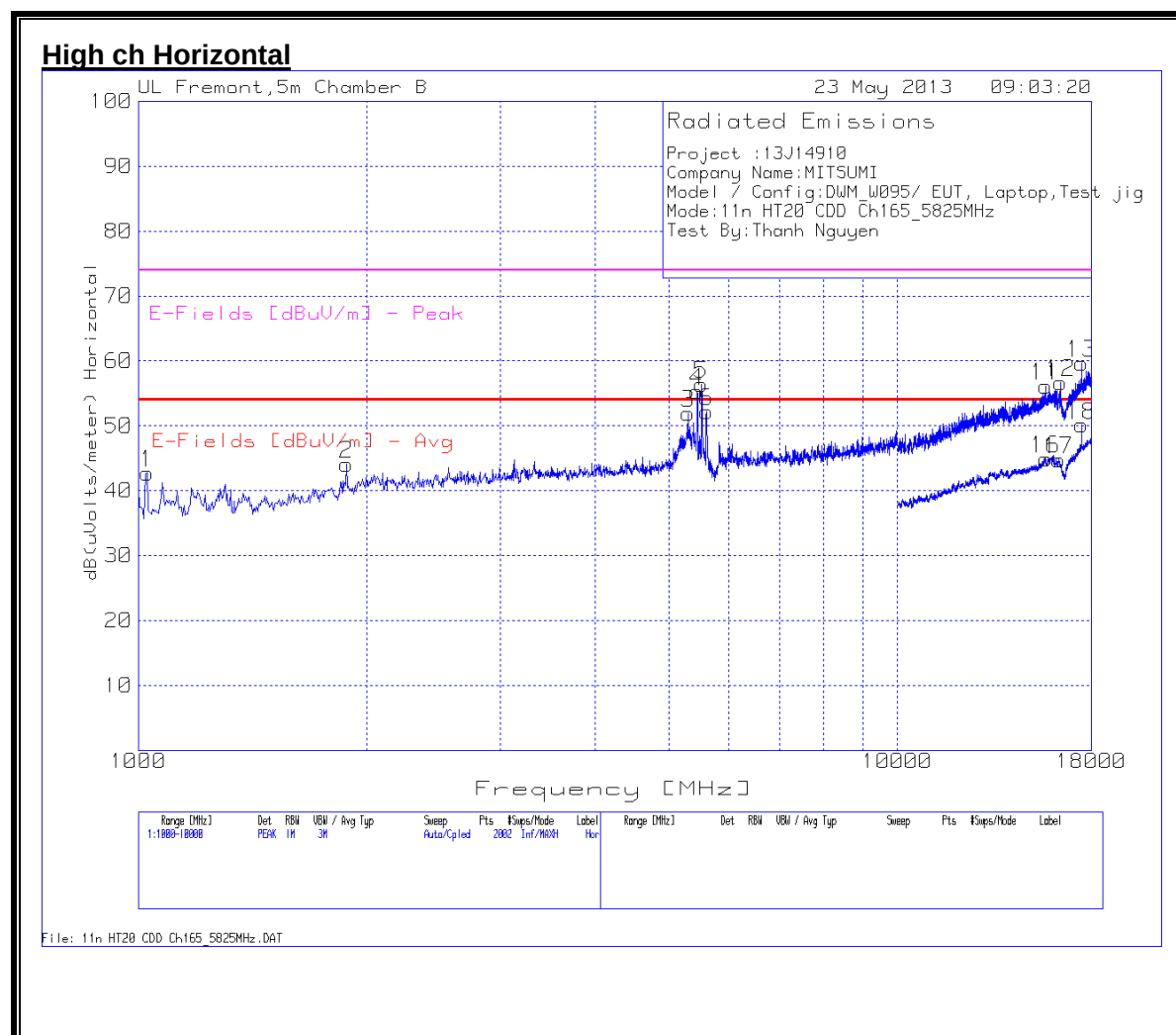
Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	5412.88	40.15	Av	34.9	-34.9	7.5	0.1	47.75	53.97	-6.22	-	-	139	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	5481.315	29.19	Av	34.9	-34.9	7.6	0.1	36.89	53.97	-17.08	-	-	183	Vert

PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector



High ch Vertical

