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

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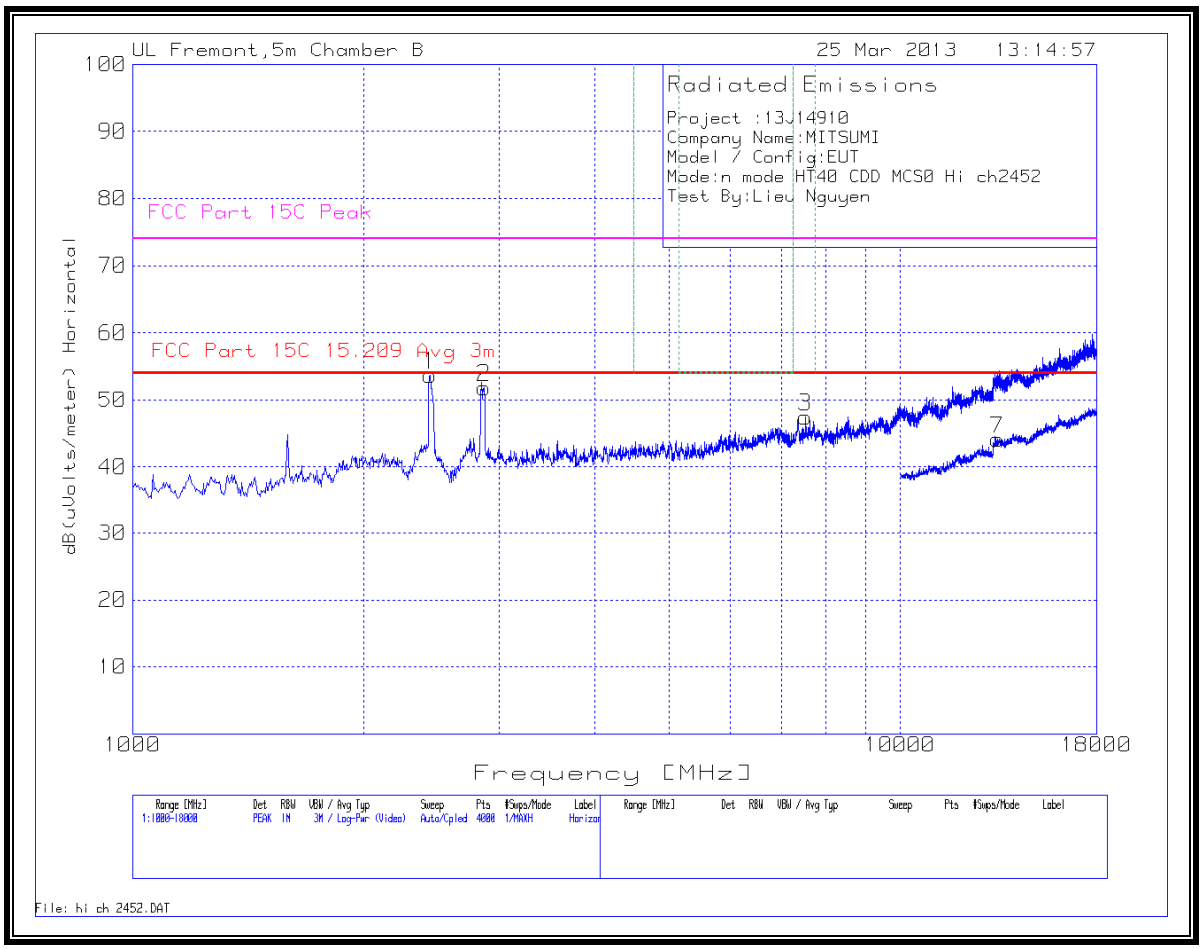
HIGH CHANNEL
HORIZONTAL



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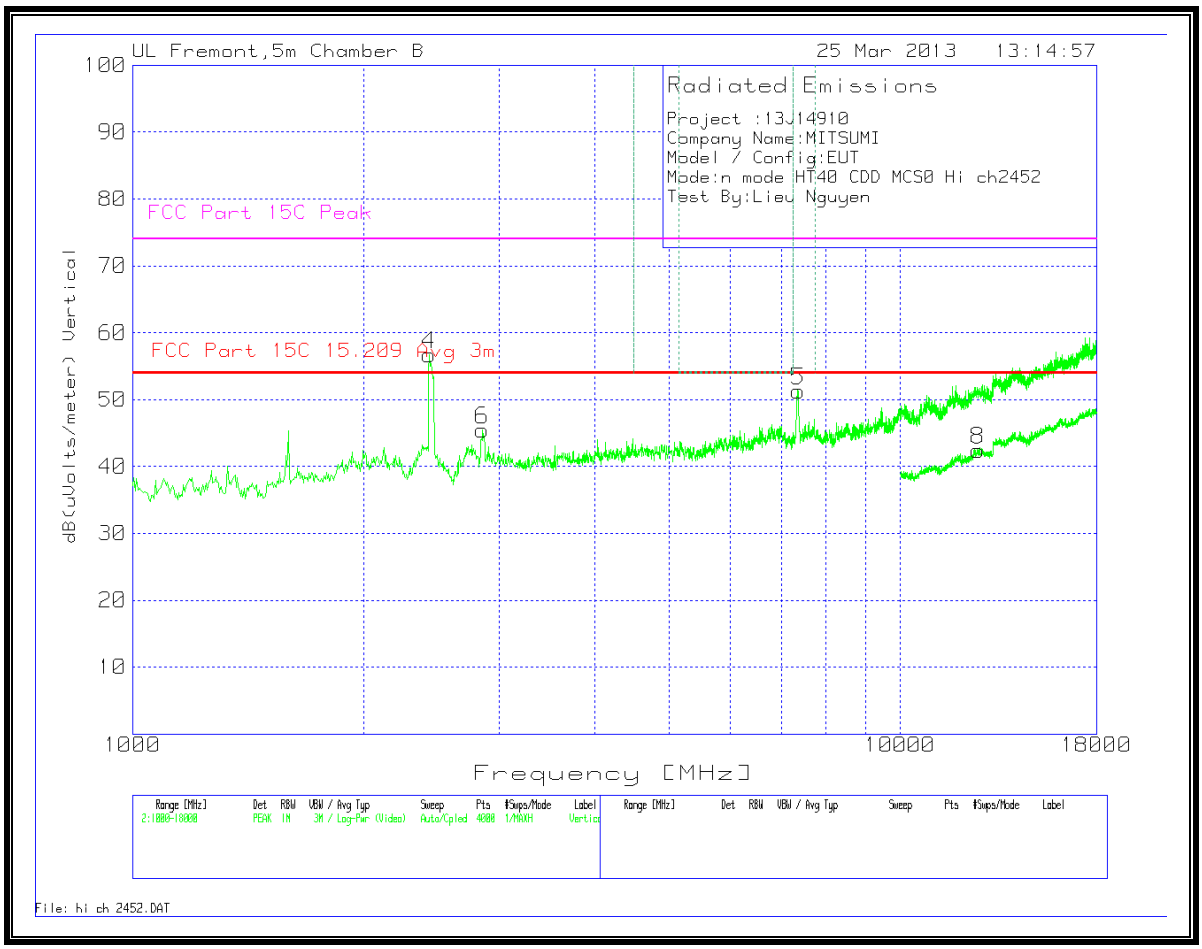
VERTICAL



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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

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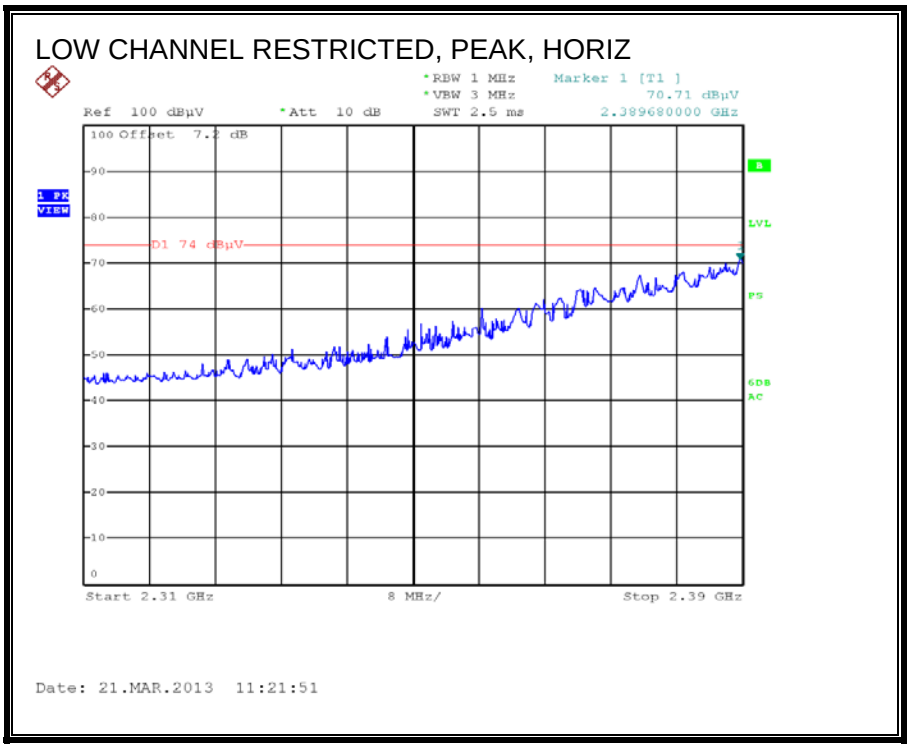
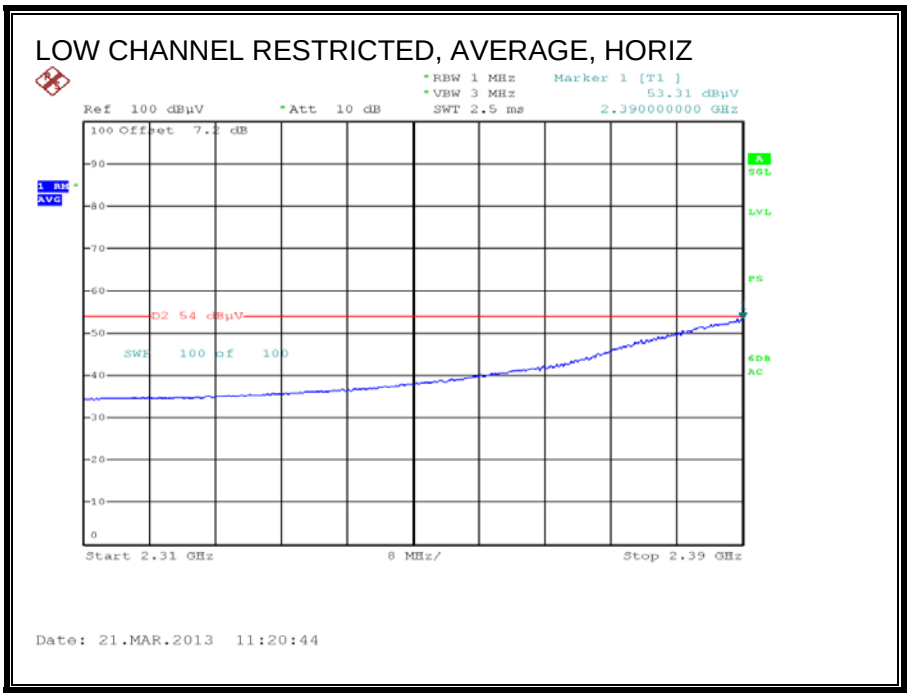
9.2.6 802.11n HT40 SDM MCS8 2TX MODE, 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)





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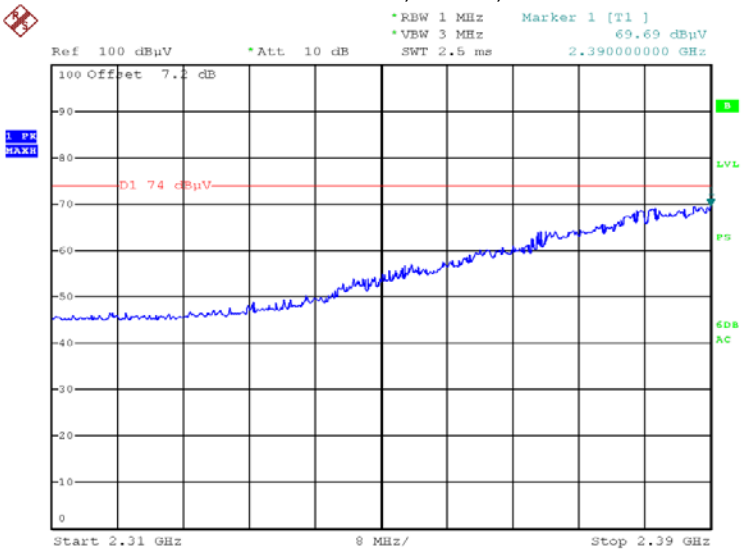
LOW CHANNEL RESTRICTED, PEAK, VERT



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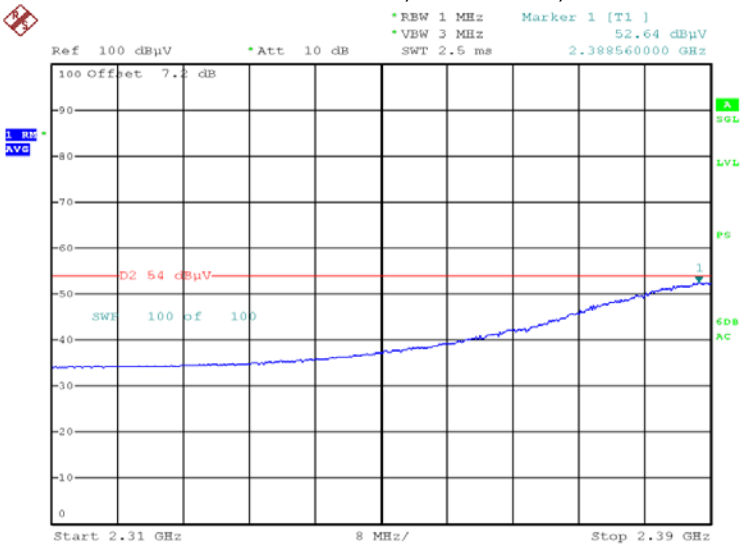
LOW CHANNEL RESTRICTED, AVERAGE, VERT



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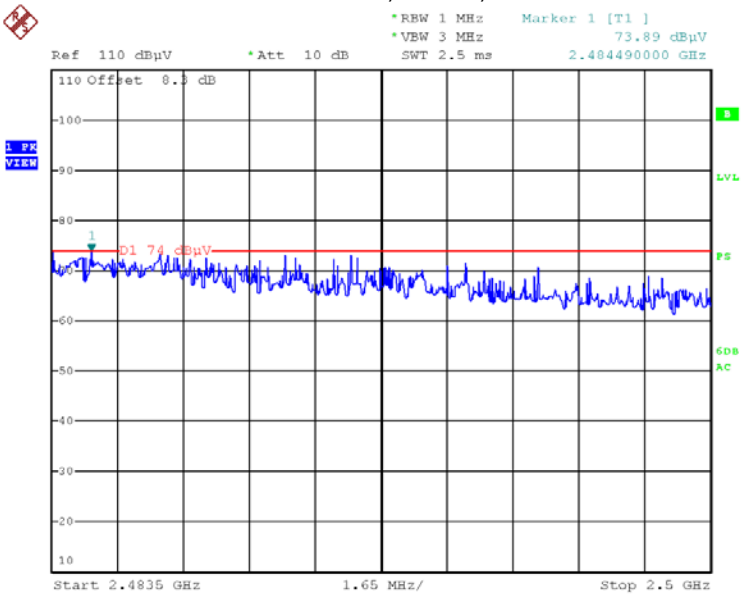
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ



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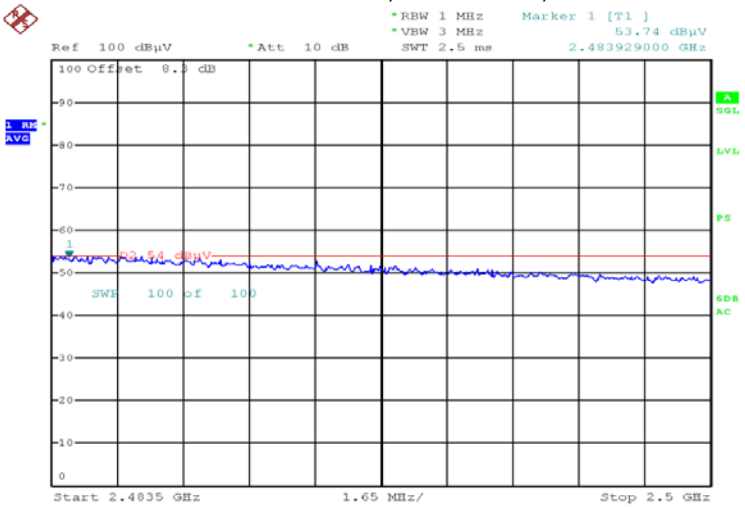
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



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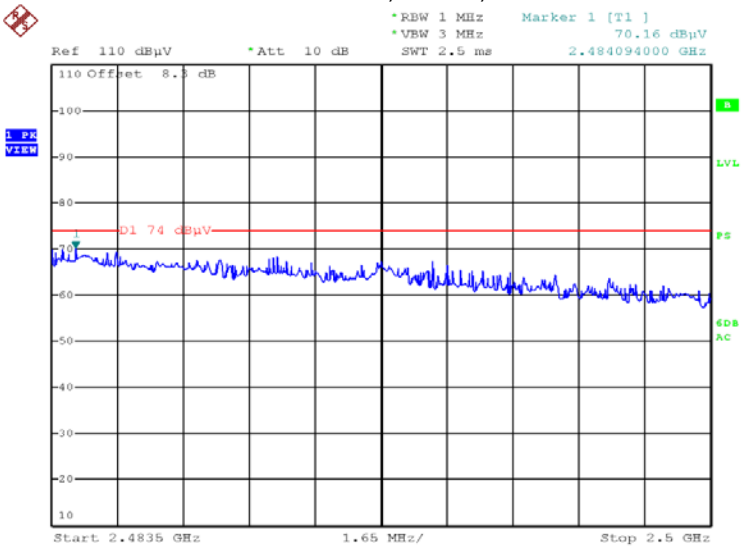
HIGH CHANNEL BANDEDGE, PEAK, VERT



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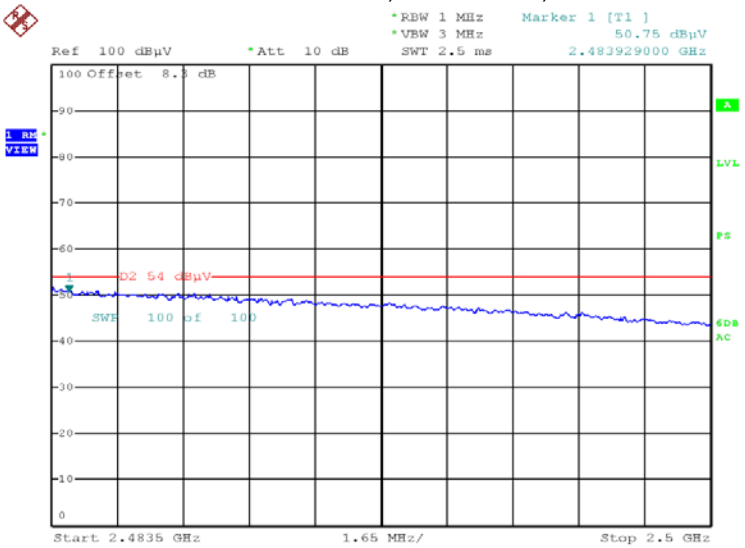
HIGH CHANNEL BANDEDGE, AVERAGE, VERT



Date: 21.MAR.2013 13:09:33

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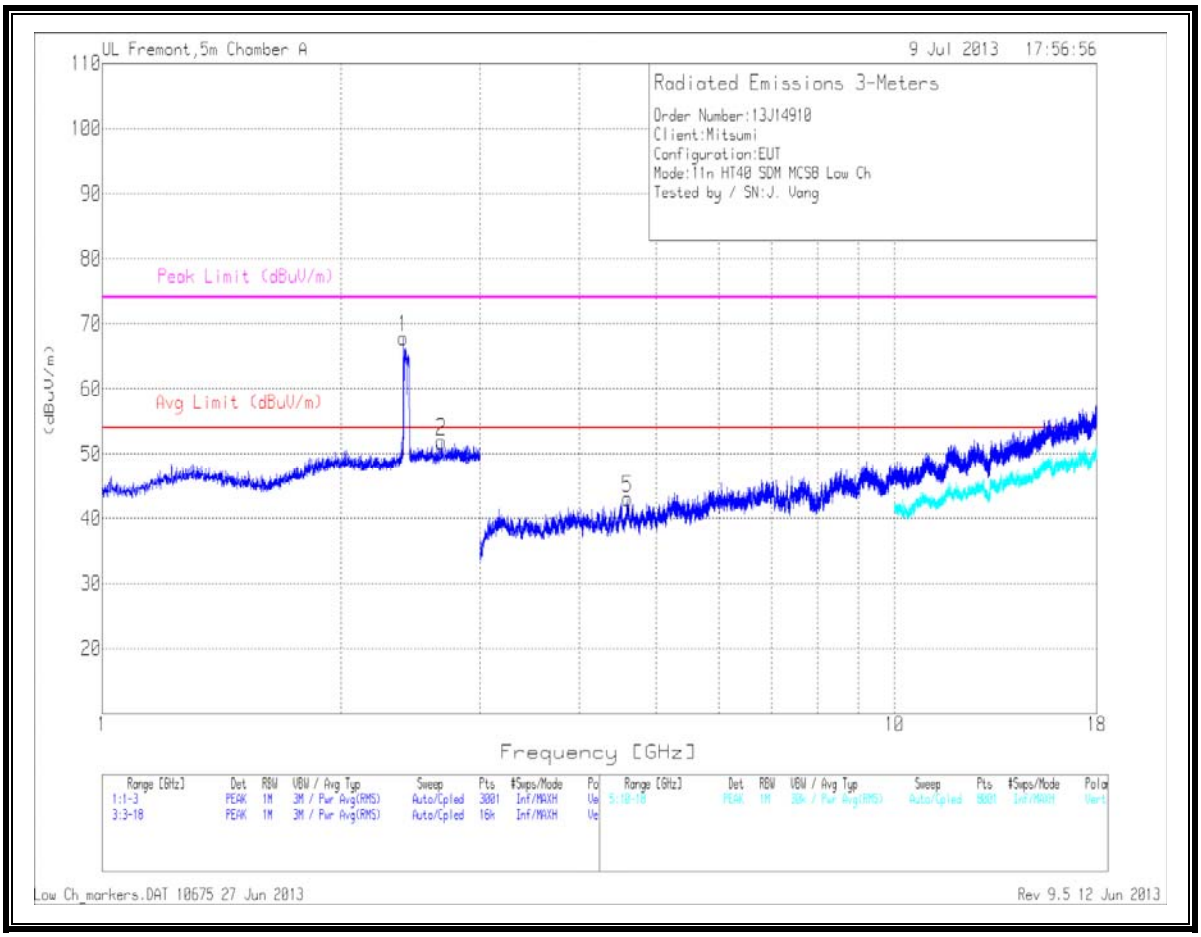
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



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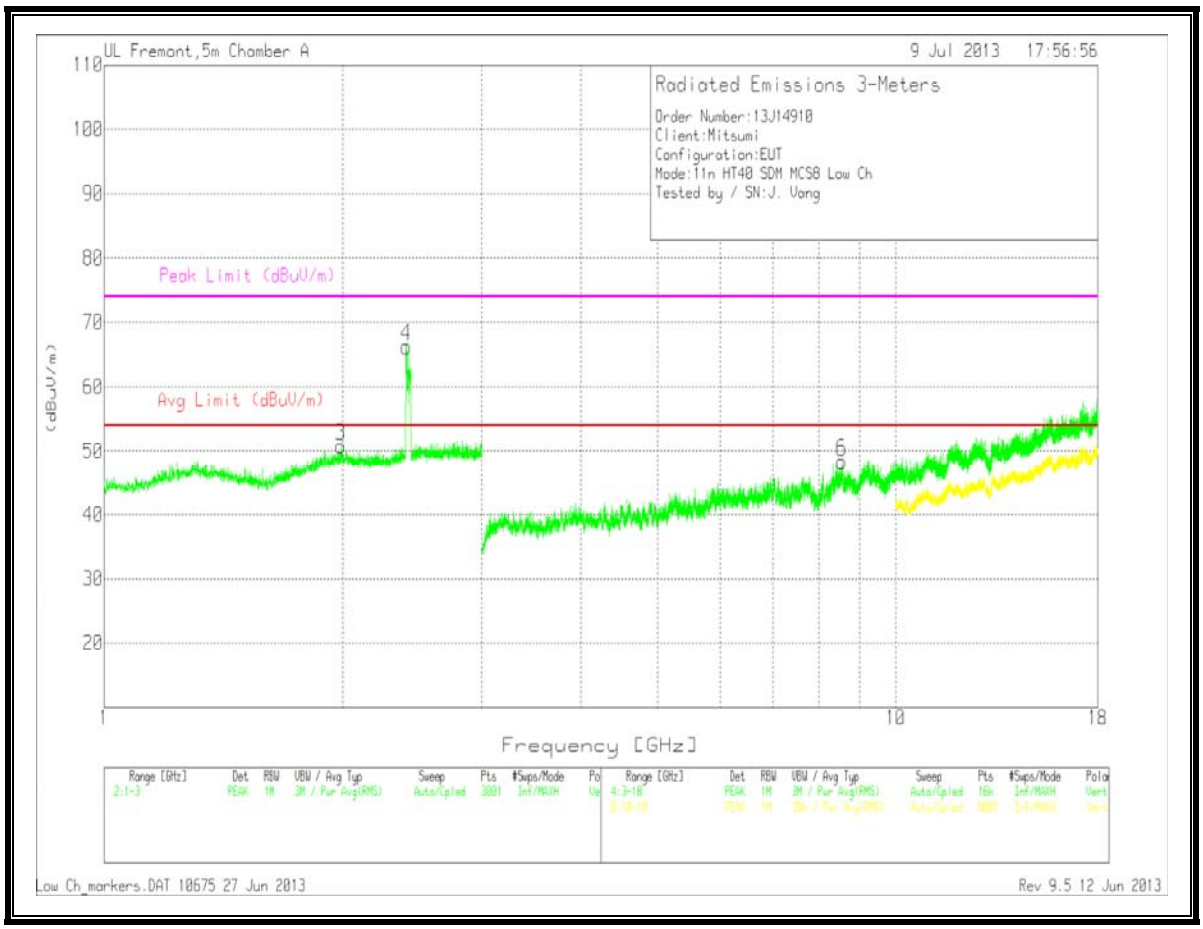
VERTICAL



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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

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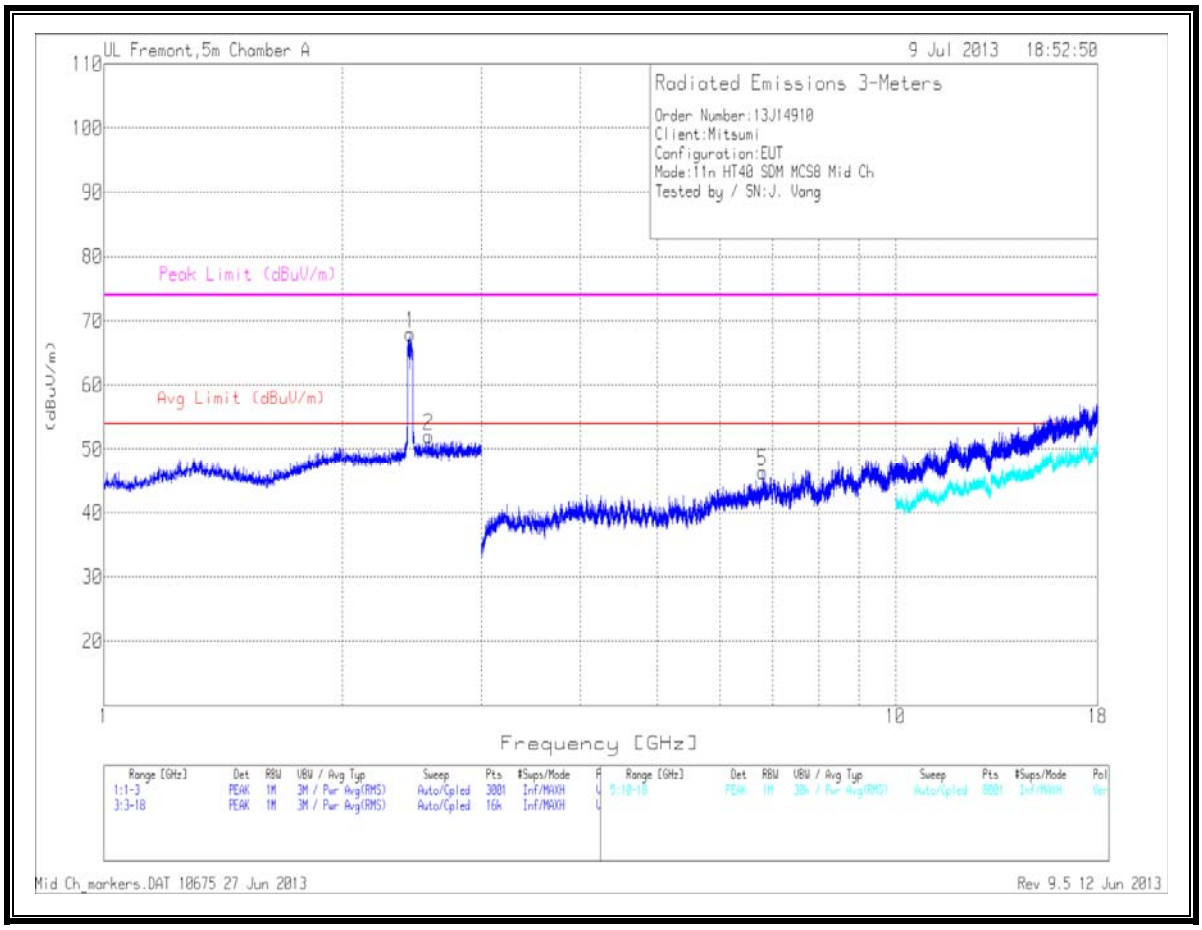
MID CHANNEL
HORIZONTAL



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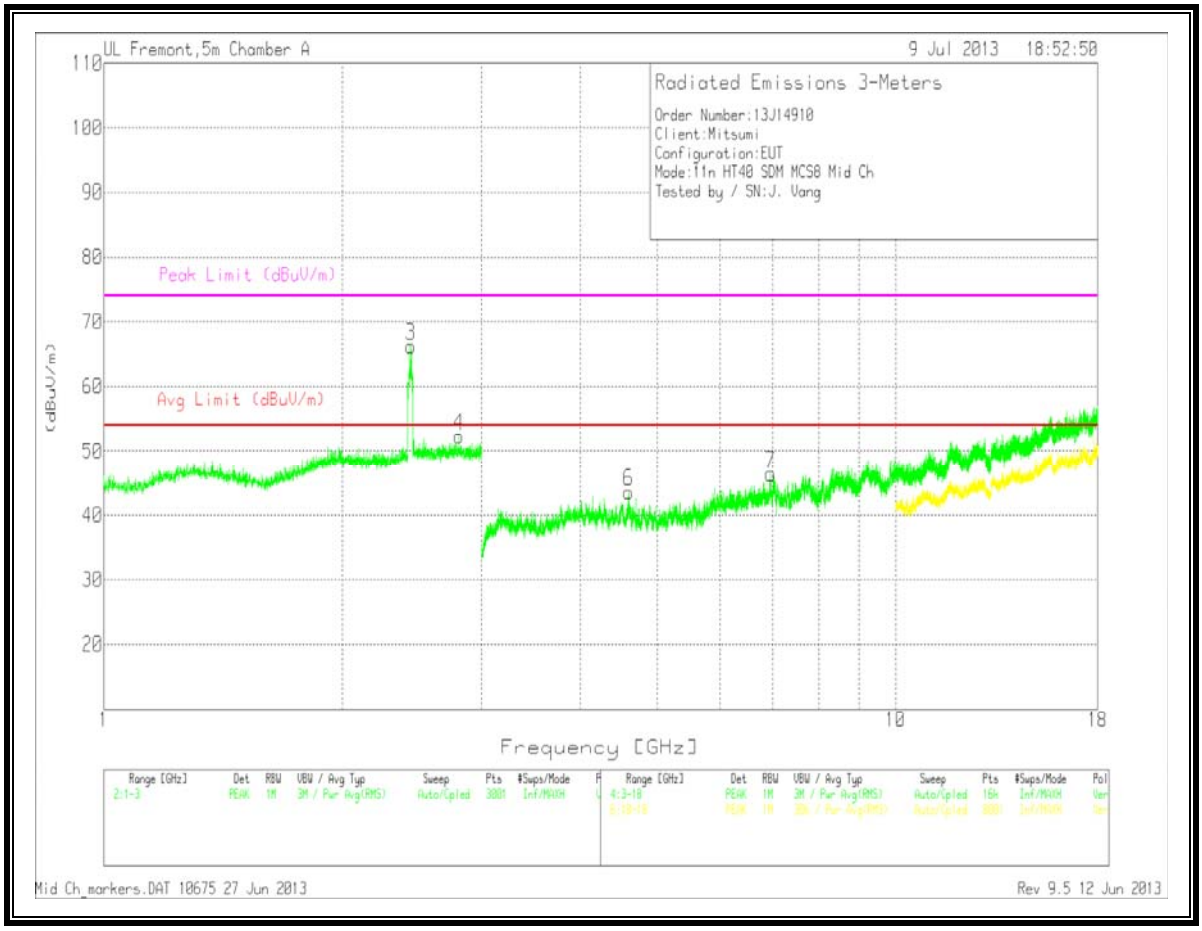
VERTICAL



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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 /Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*2.439	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

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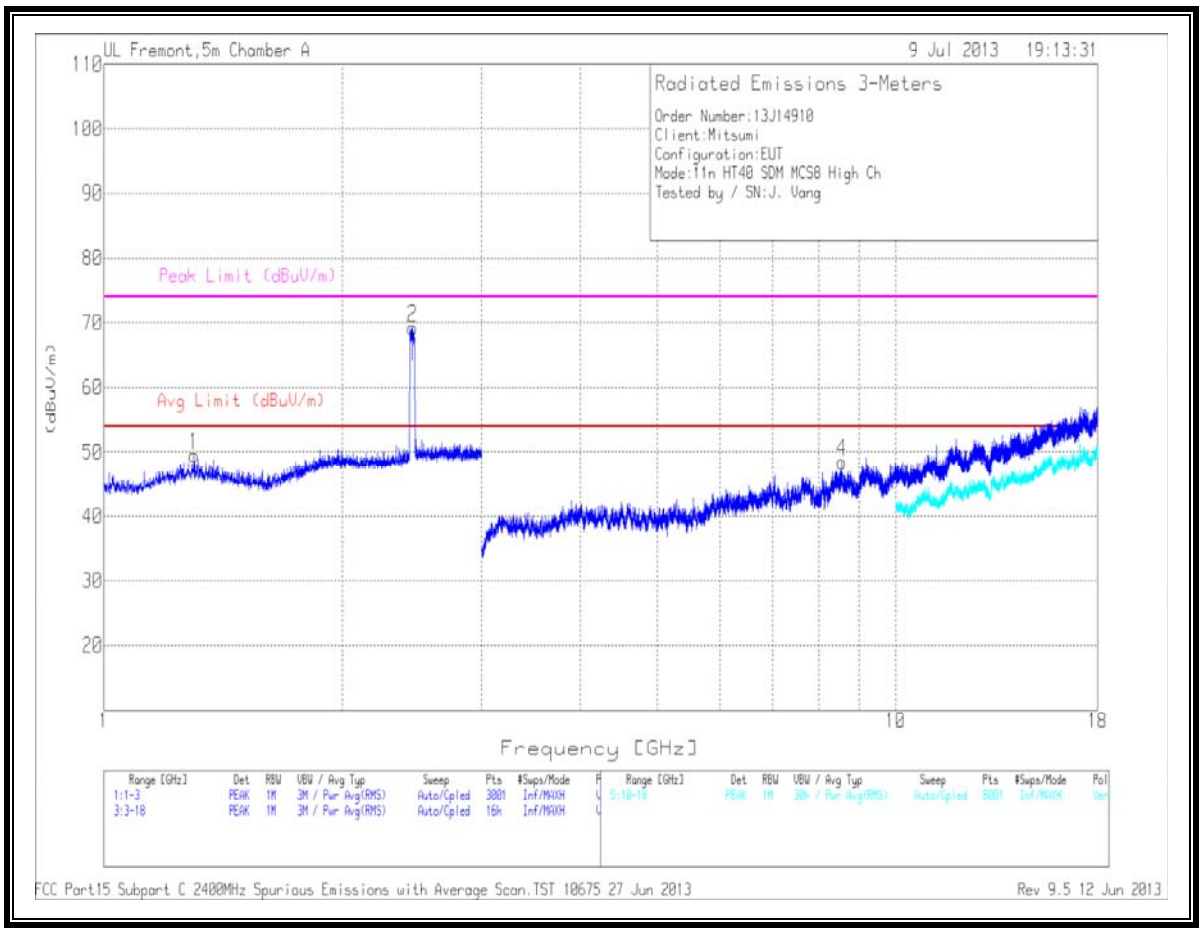
HIGH CHANNEL
HORIZONTAL



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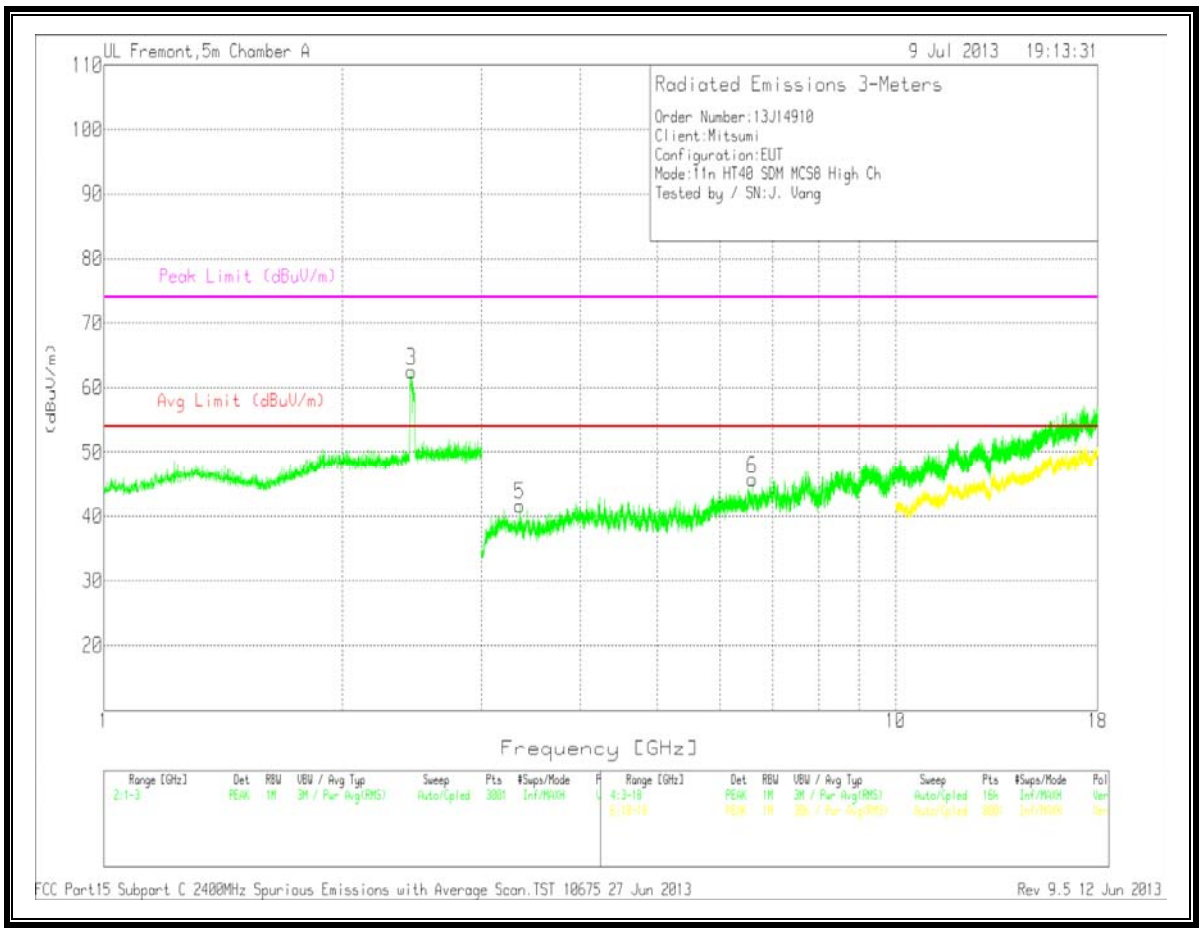
VERTICAL



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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	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
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	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
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

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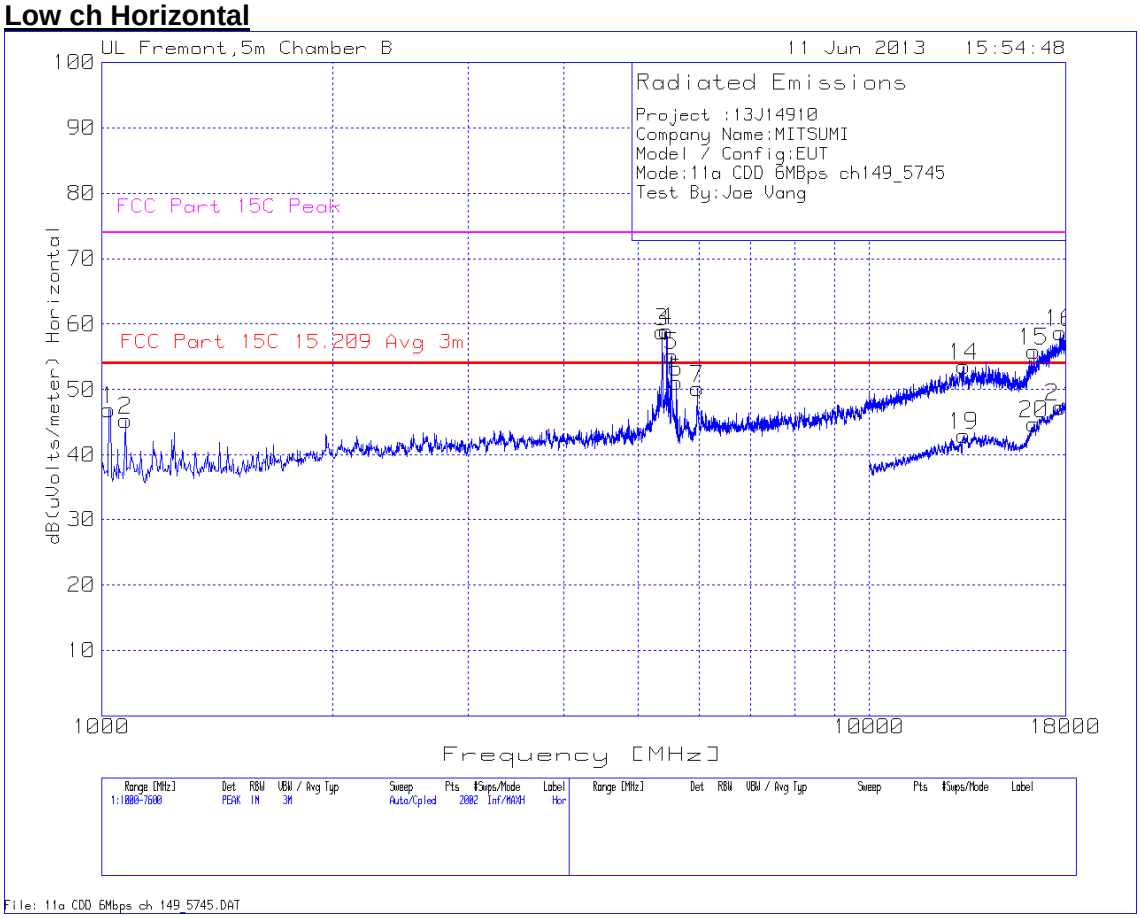
9.2.3 802.11a CDD 2TX MODE, 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

Low ch Horizontal



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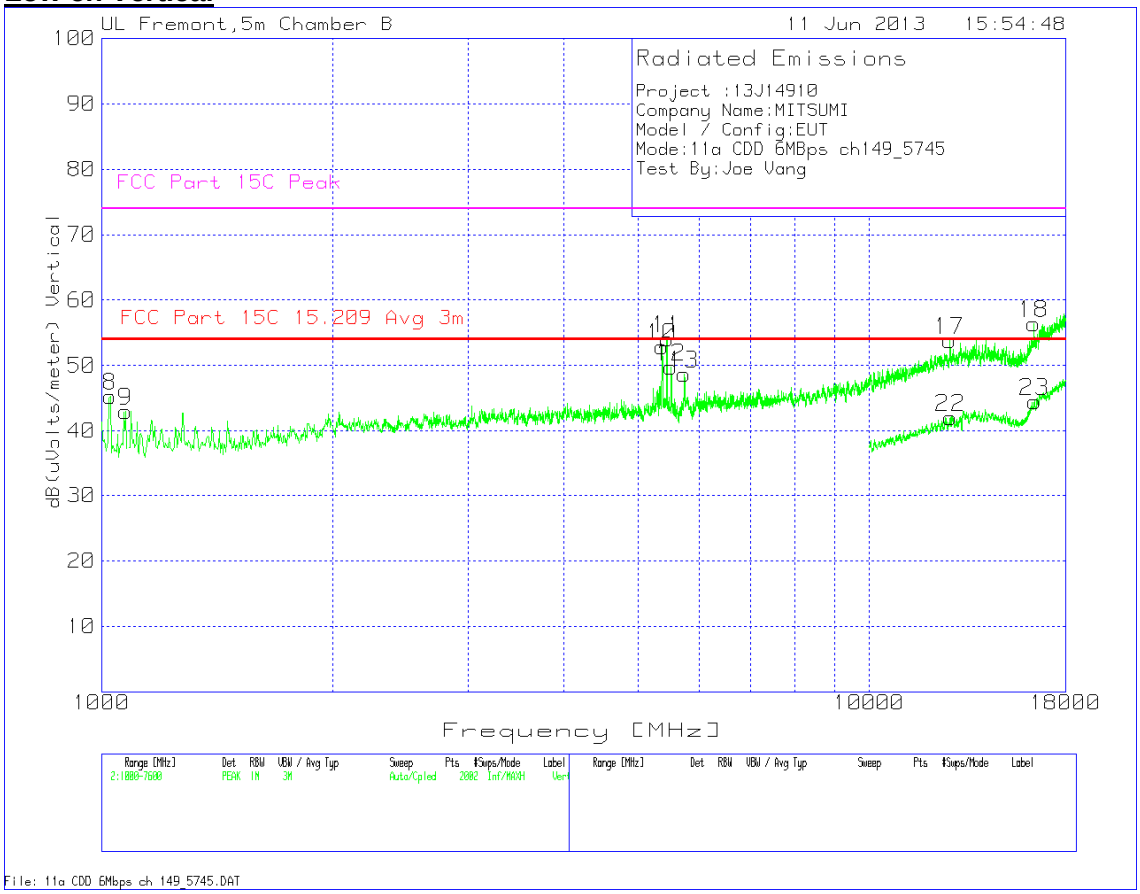
Low ch Vertical



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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

* Fundmental

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

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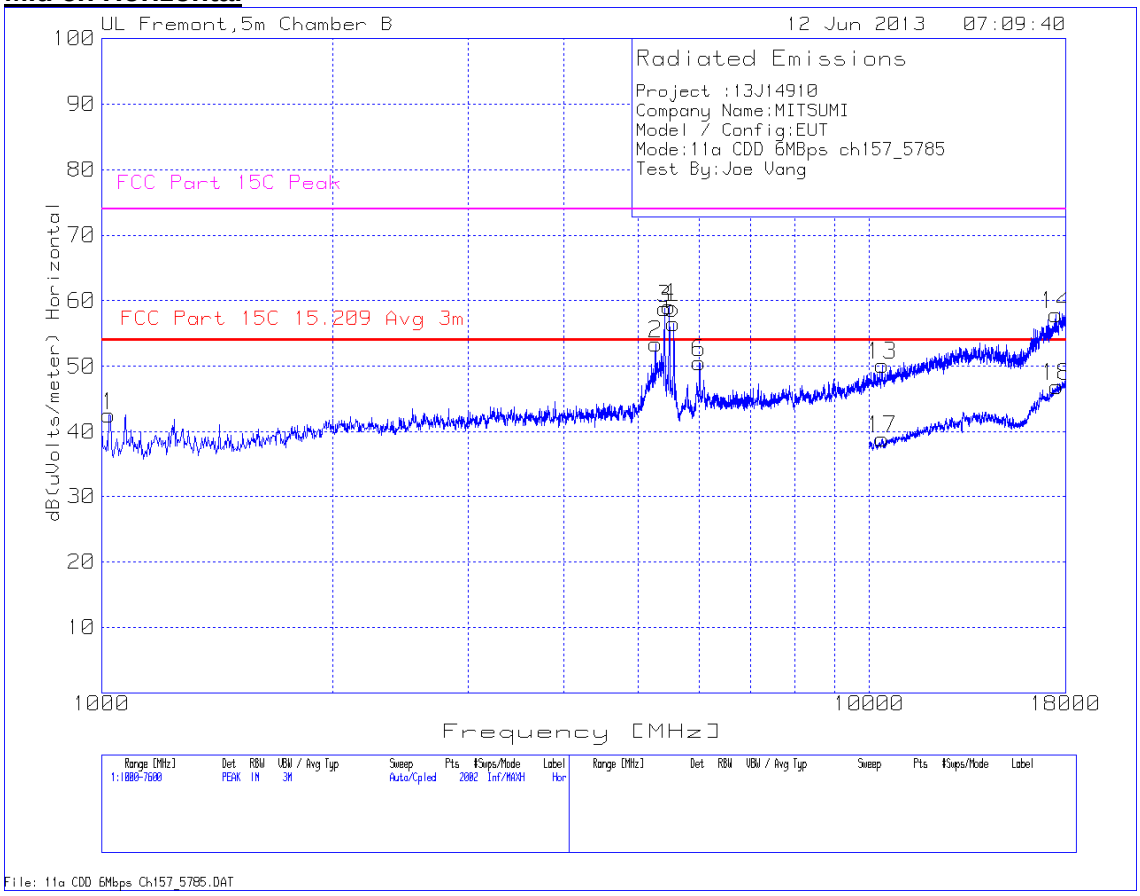
MID CHANNEL

Mid ch Horizontal



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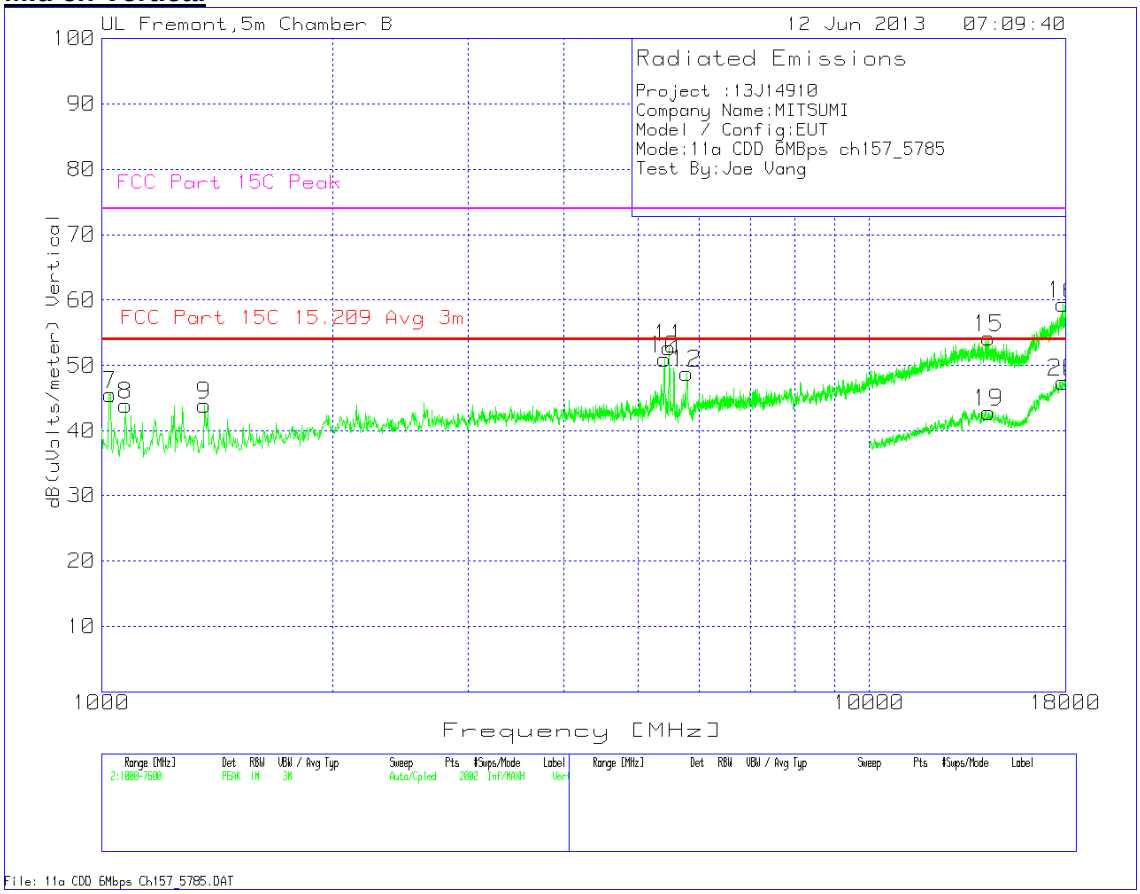
Mid ch Vertical



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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(uVolts/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(uVolts/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(uVolts/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(uVolts/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(uVolts/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(uVolts/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(uVolts/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(uVolts/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

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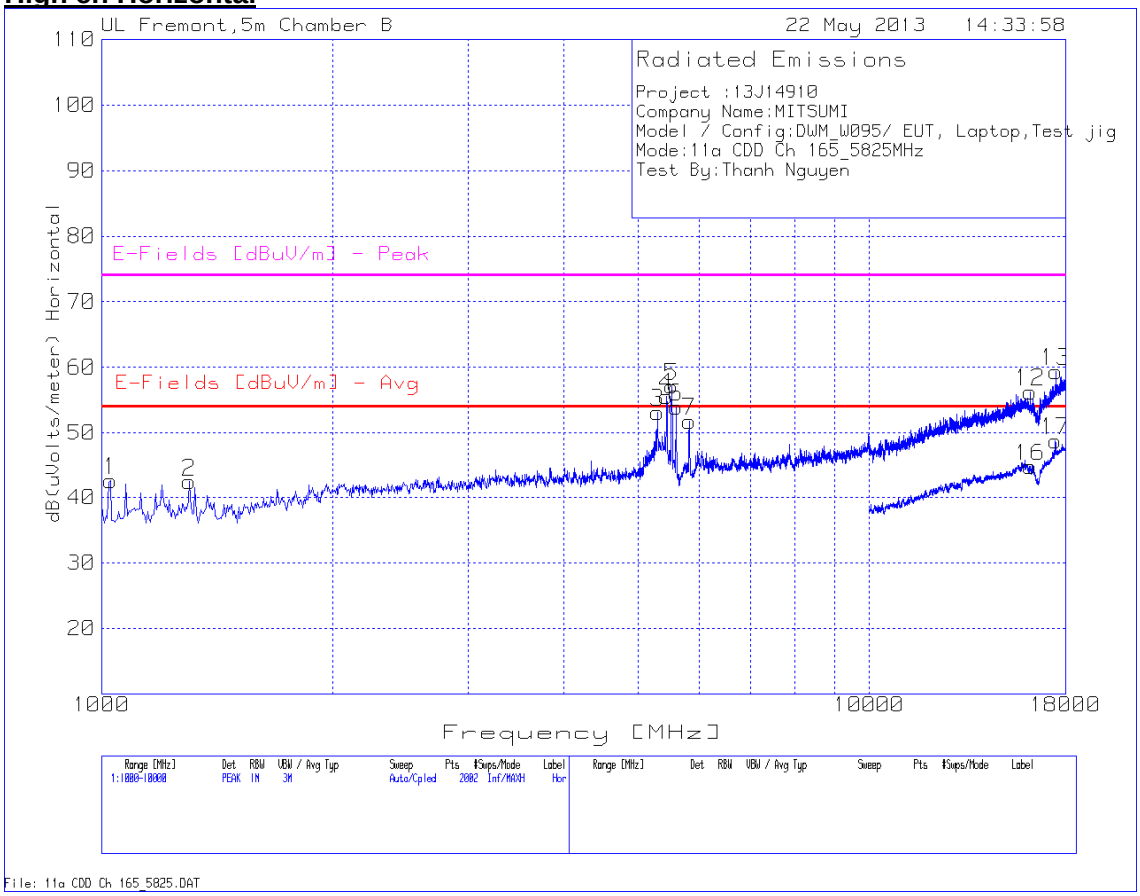
HIGH CHANNEL

High ch Horizontal



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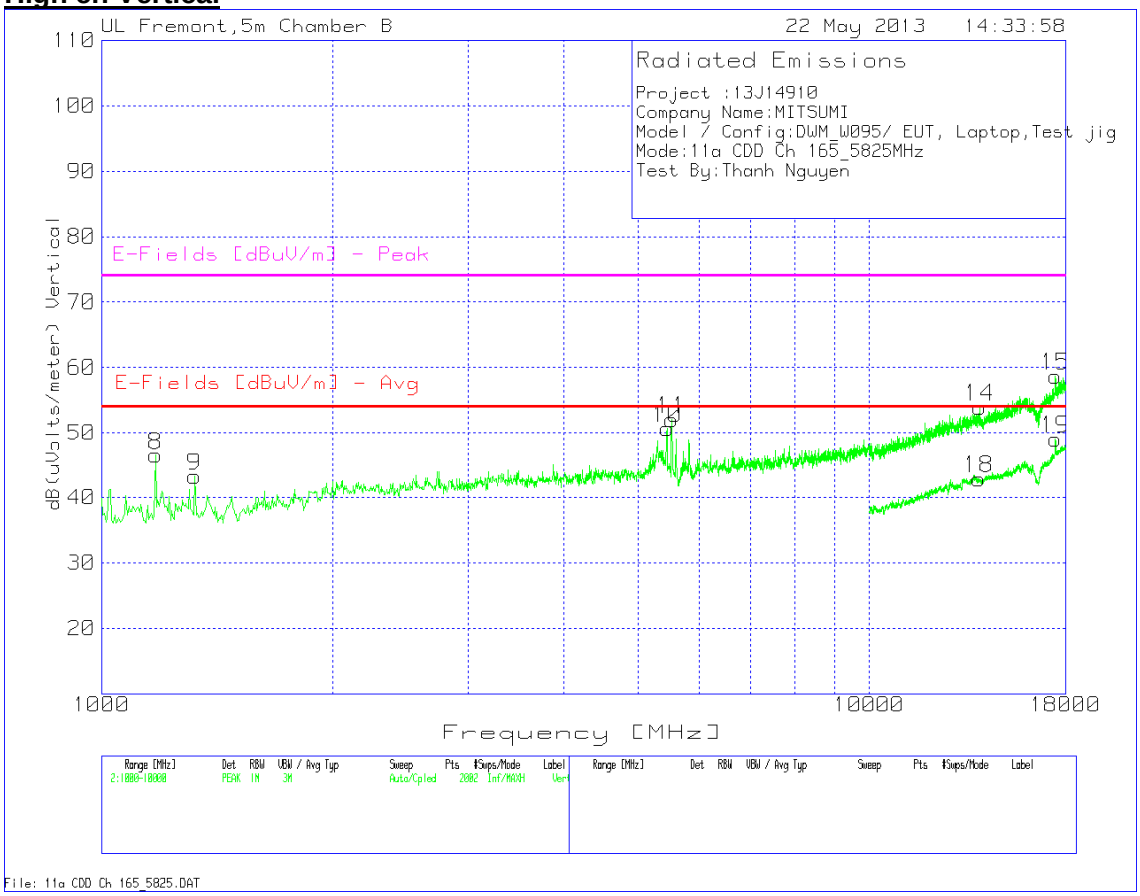
High ch Vertical



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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

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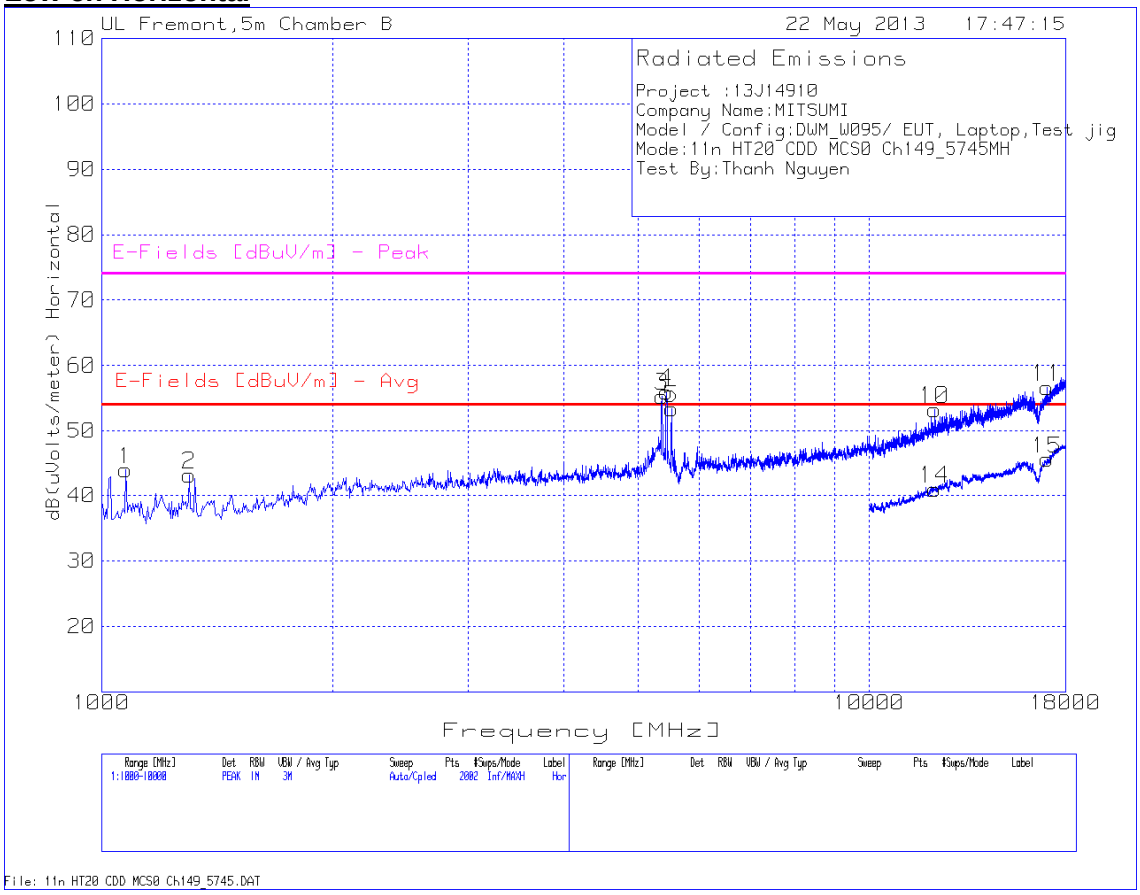
9.2.4 802.11n HT20 CDD MCS0 MODE, 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

Low ch Horizontal



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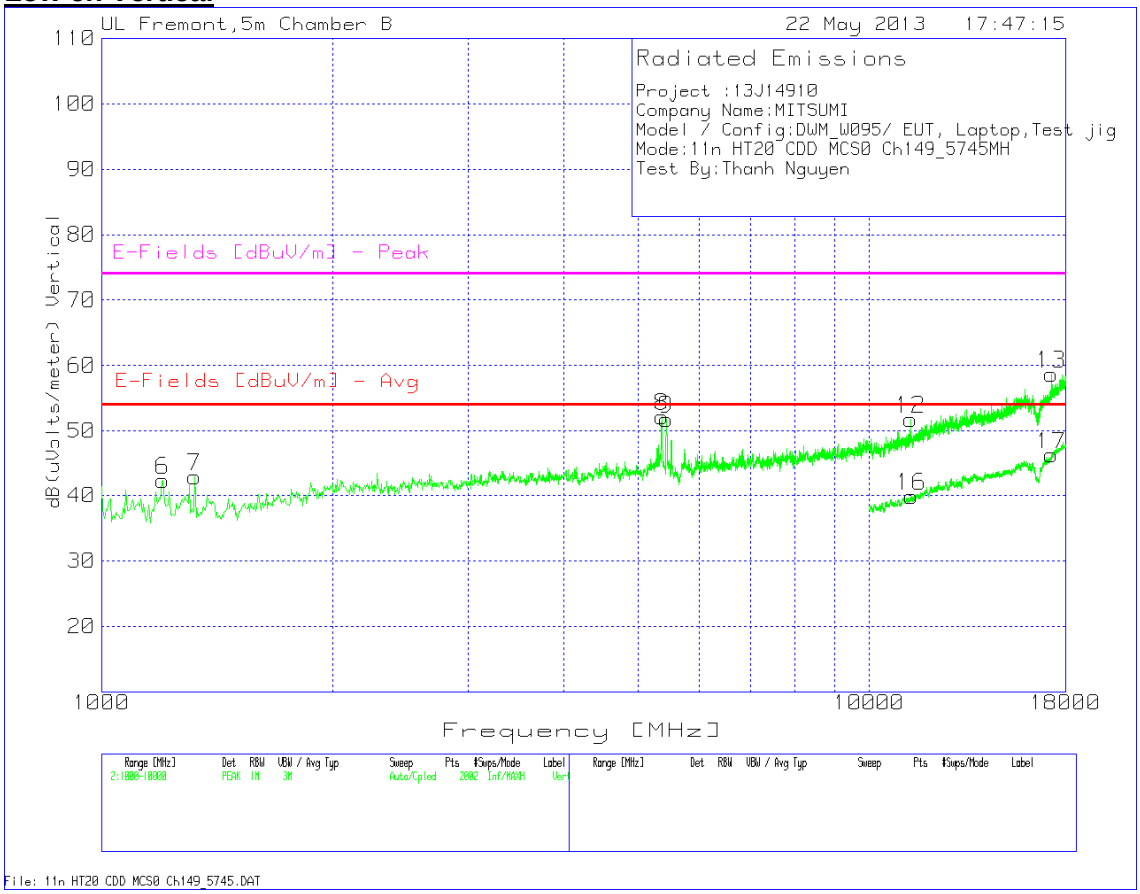
Low ch Vertical



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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 BRF [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 BRF [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 BRF [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 BRF [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

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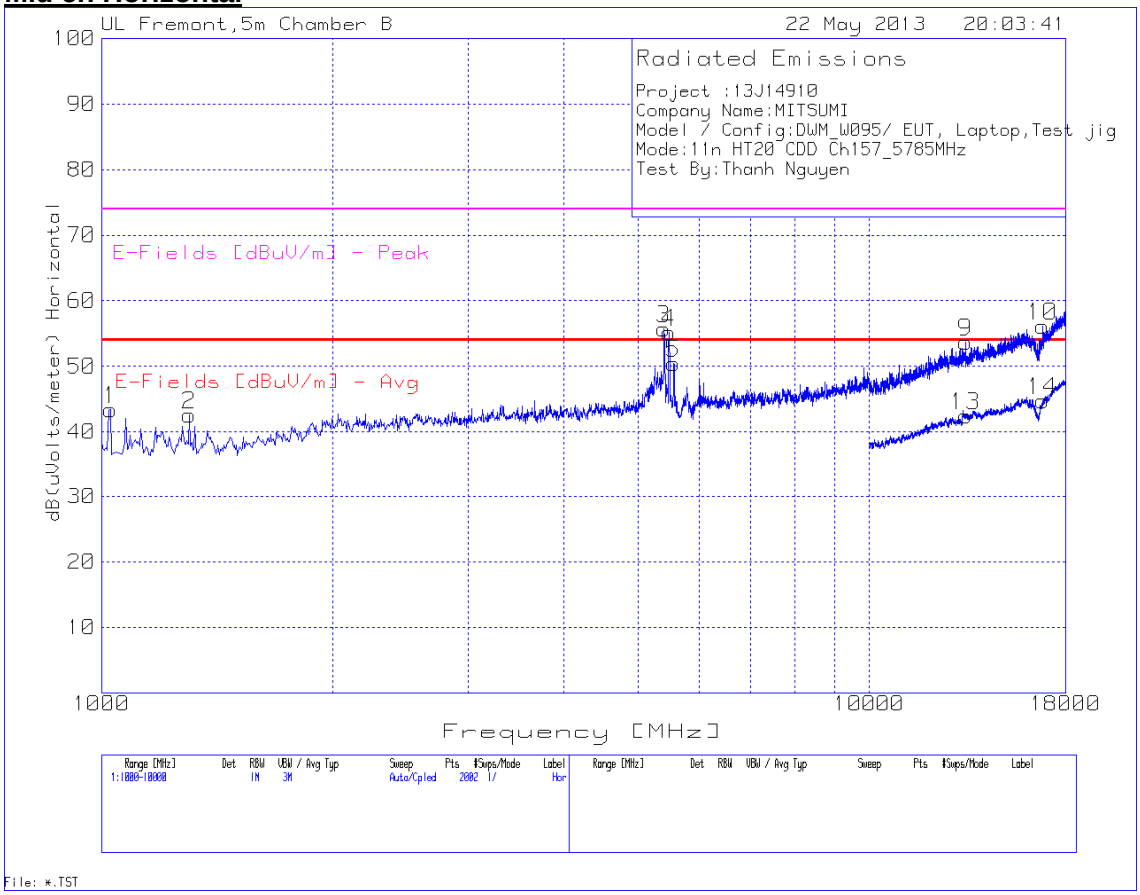
Mid ch Horizontal



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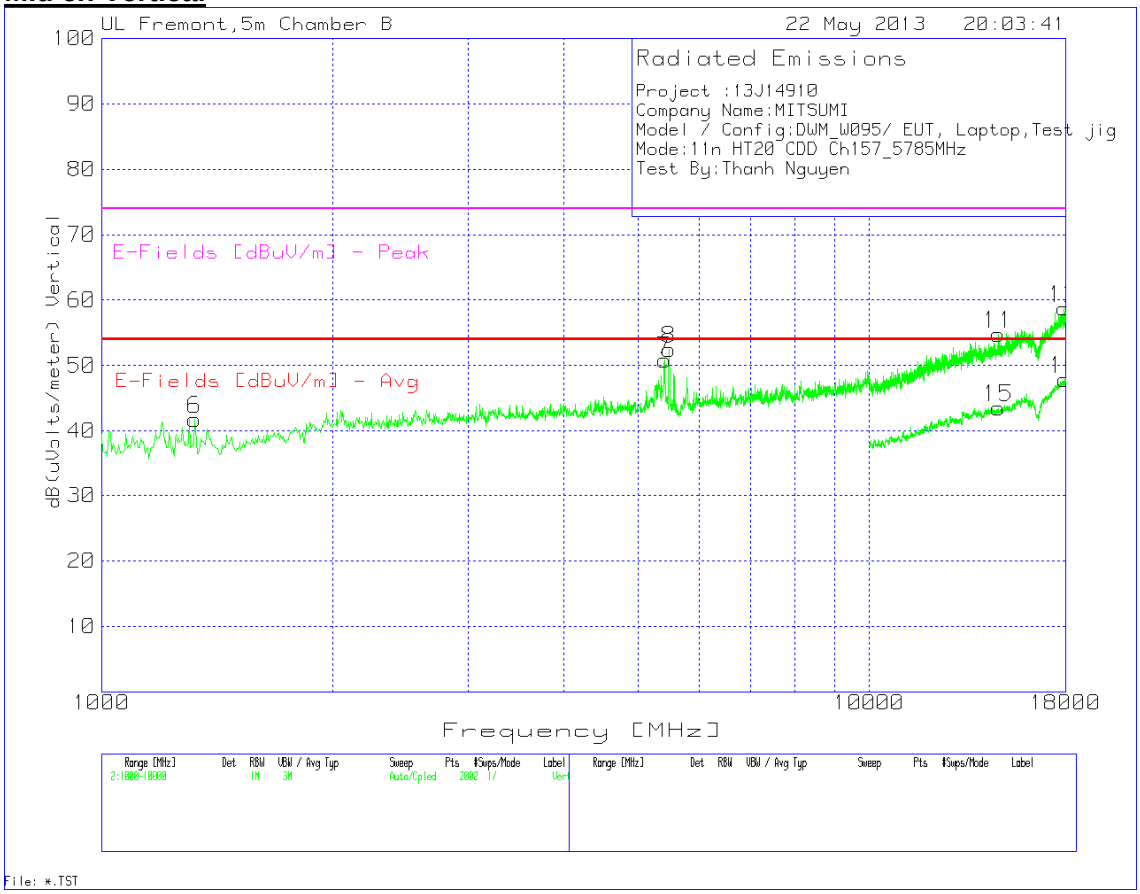
Mid ch Vertical



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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

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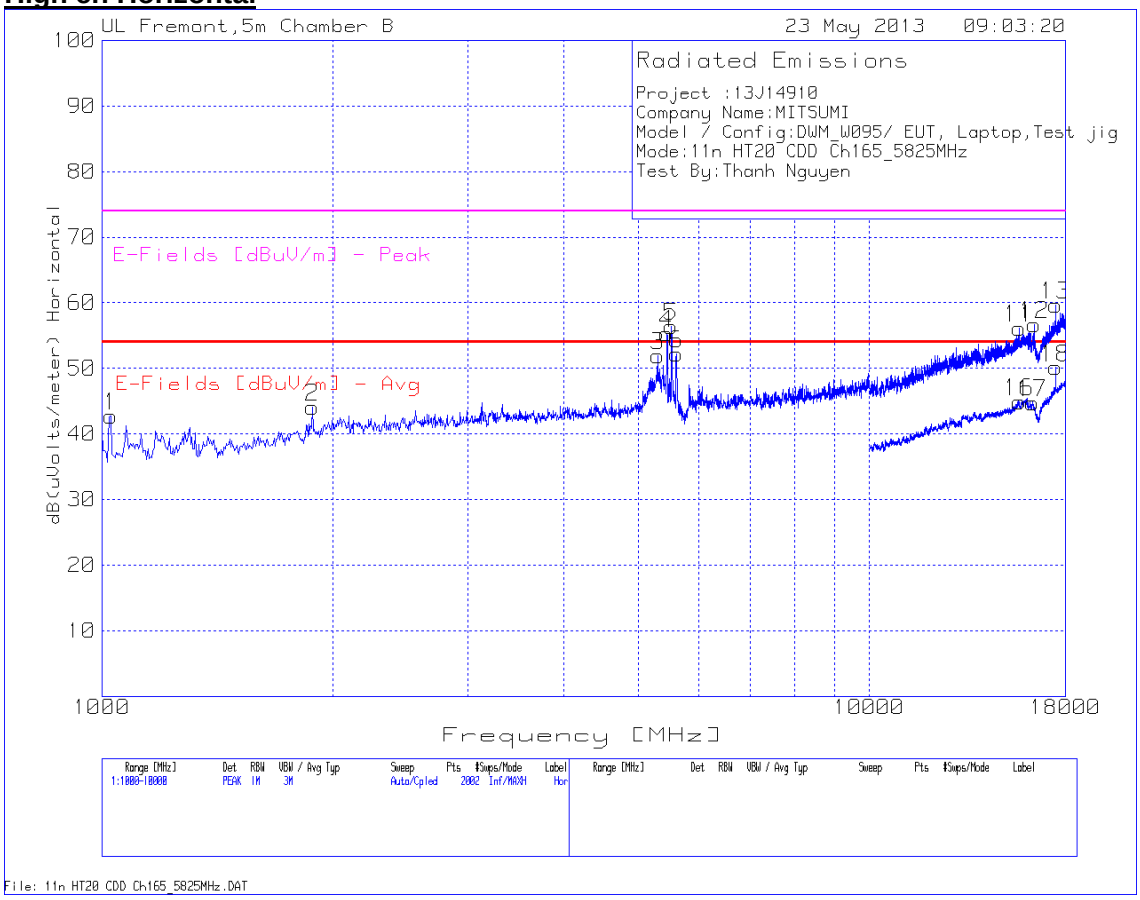
High ch Horizontal



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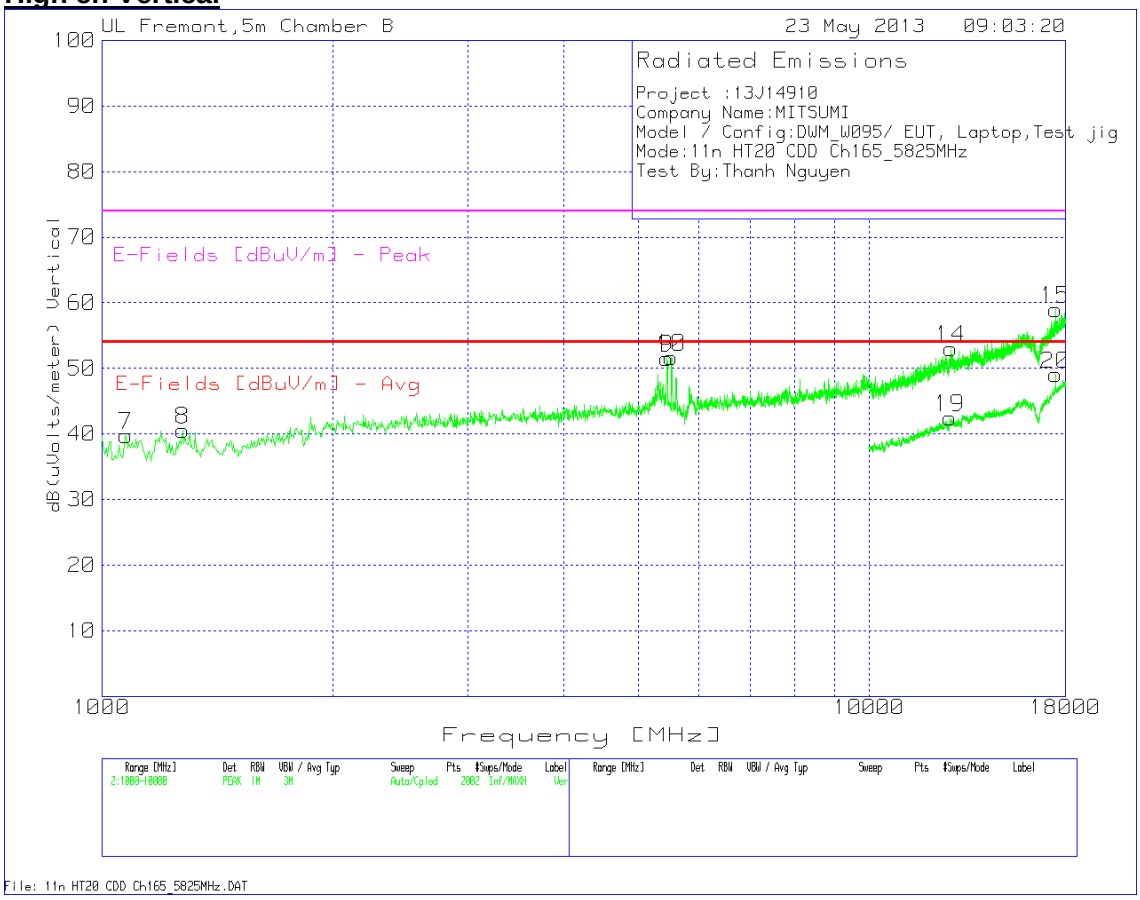
High ch Vertical



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