

High ch data

Project :13J14910
Company Name: MITSUMI
Model / Config: DWM_W095/ EUT, Laptop, Test jig
Mode: 11n HT20 CDD Ch165_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	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1026.987	47.95	PK	27.5	-36	3.2	0.1	42.75	53.97	-11.22	74	-31.25	100	Horz
2	1881.559	43.9	PK	31	-35	4.1	0.1	44.1	-	-	68.2	-24.1	200	Horz
3	5299.85	44.48	PK	34.9	-34.9	7.4	0.1	51.98	-	-	68.2	-16.22	200	Horz
4	5448.276	47.69	PK	34.9	-34.9	7.5	0.1	55.29	53.97	1.32	74	-18.71	100	Horz
5	5524.738	48.71	PK	34.9	-34.9	7.6	0.1	56.41	-	-	68.2	-11.79	100	Horz
6	5601.199	44.35	PK	35	-34.9	7.7	0.1	52.25	-	-	68.2	-15.95	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)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	1076.462	44.52	PK	27.8	-35.9	3.2	0.1	39.72	53.97	-14.25	74	-34.28	200	Vert
8	1274.363	44.11	PK	28.6	-35.6	3.4	0.1	40.61	-	-	68.2	-27.59	400	Vert
9	5443.778	43.99	PK	34.9	-34.9	7.5	0.1	51.59	53.97	-2.38	74	-22.41	200	Vert
10	5524.738	43.94	PK	34.9	-34.9	7.6	0.1	51.64	-	-	68.2	-16.56	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]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	15677.161	34.03	PK	41.2	-32.9	13.6	0.2	56.13	-	-	74	-17.87	200	Horz
12	16388.806	33.66	PK	41.4	-32.5	13.9	0.2	56.66	-	-	68.2	-11.54	200	Horz
13	17476.262	34.61	PK	42	-31.6	14.5	0.2	59.71	-	-	68.2	-8.49	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]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
14	12778.611	33.68	PK	39.2	-32.1	12	0.2	52.98	-	-	68.2	-15.22	100	Vert
15	17476.262	33.87	PK	42	-31.6	14.5	0.2	58.97	-	-	68.2	-9.23	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]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
16	15657.171	22.92	PK	41.2	-32.9	13.5	0.2	44.92	53.97	-9.05	74	-29.08	200	Horz
17	16332.834	21.84	PK	41.4	-32.6	13.9	0.2	44.74	-	-	68.2	-23.46	100	Horz
18	17476.262	25.01	PK	42	-31.6	14.5	0.2	50.11	-	-	68.2	-18.09	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]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
19	12742.629	23.29	PK	39.2	-32.2	12	0.2	42.49	-	-	68.2	-25.71	100	Vert
20	17472.264	23.93	PK	42	-31.6	14.5	0.2	49.03	-	-	68.2	-19.17	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]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
4	5453.0507	17.43	Av	34.9	-34.9	7.5	0.1	25.03	53.97	-28.94	-	-	139	Horz

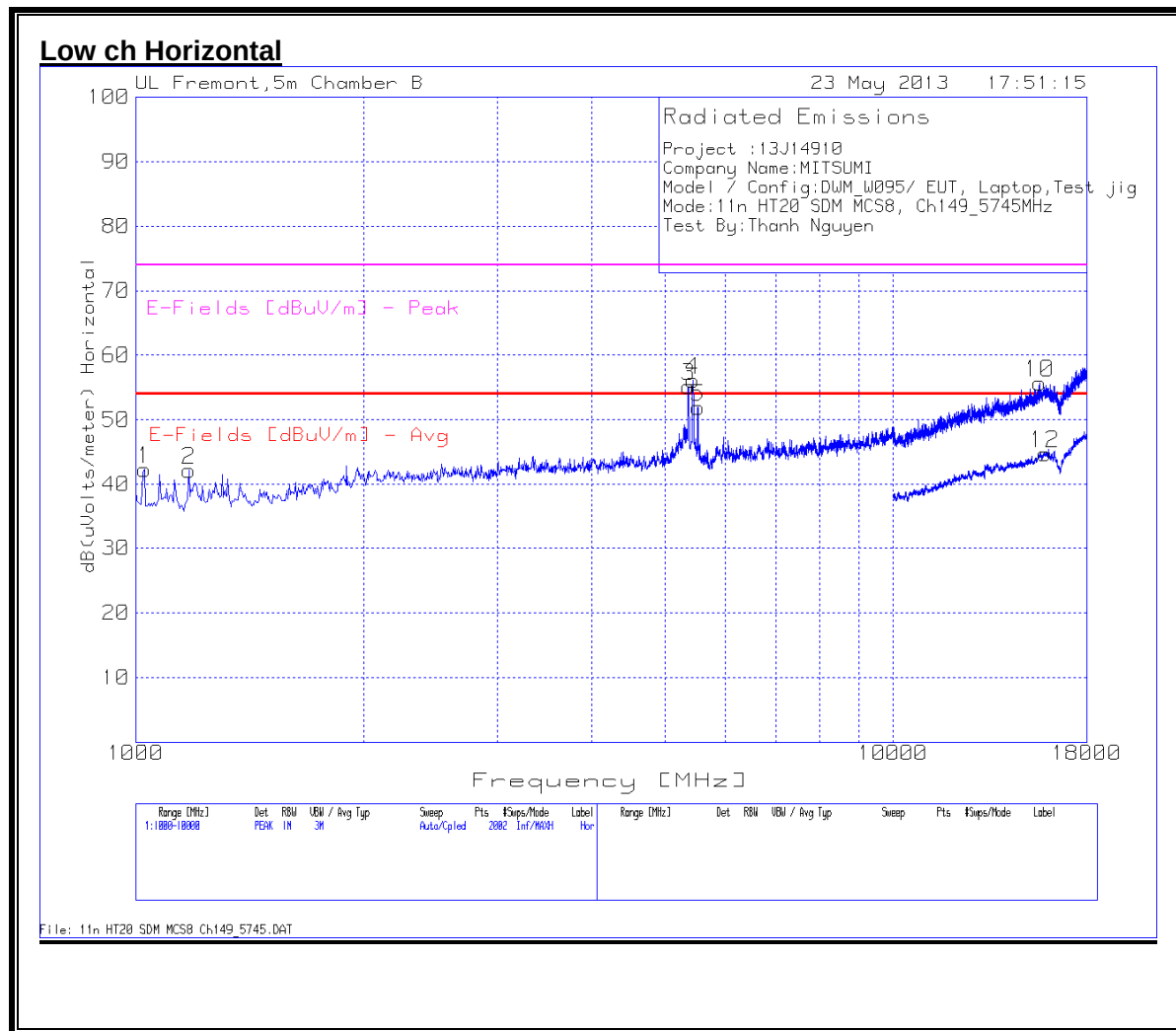
Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
9	5443.9851	12.22	Av	34.9	-34.9	7.5	0.1	19.82	53.97	-34.15	-	-	304	Vert

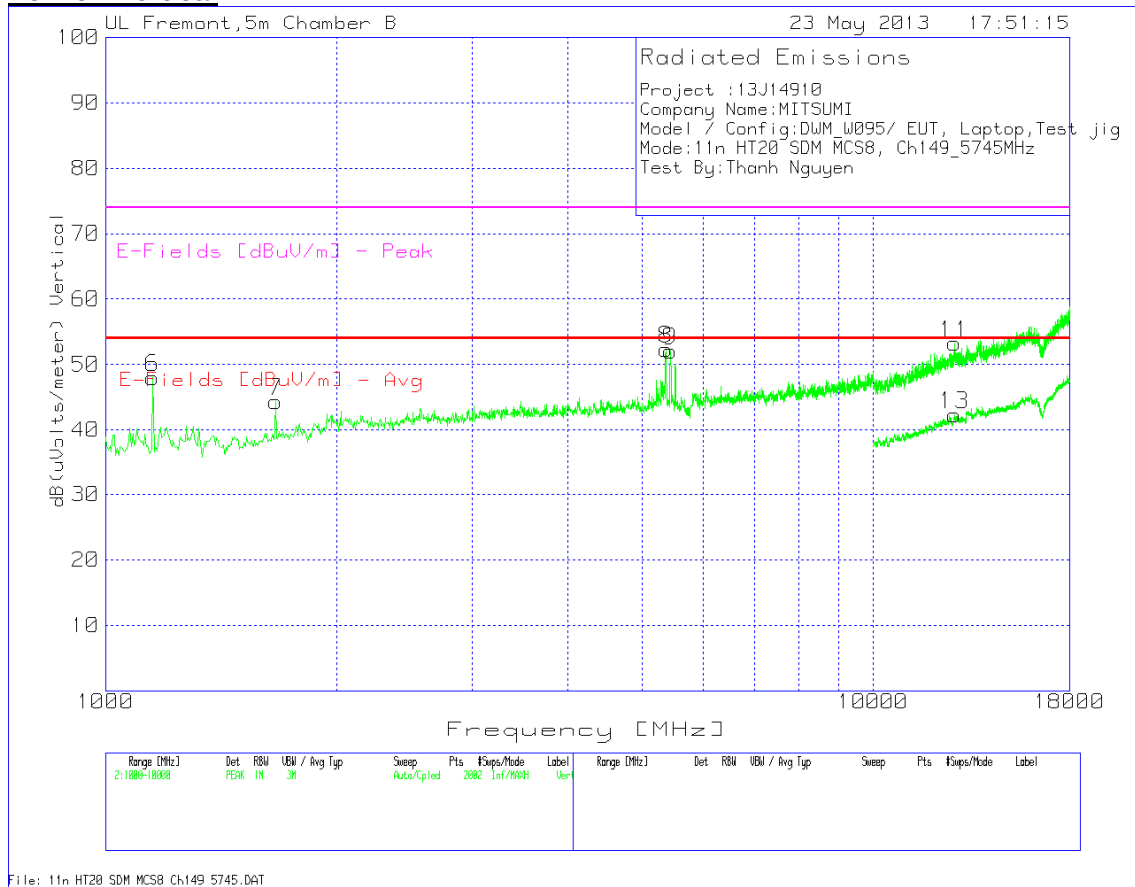
PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

9.2.5 TX ABOVE 1 GHz 802.11n HT20 SDM MCS8 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 SDM MCS8, 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/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
1	1026.987	47.56	PK	27.5	-36	3.2	0.1	42.36	53.97	-11.61	74	-31.64	100	Horz
2	1175.412	46.25	PK	28.2	-35.7	3.3	0.1	42.15	53.97	-11.82	74	-31.85	100	Horz
3	5371.814	47.61	PK	34.9	-34.9	7.5	0.1	55.21	-	-	74	-18.79	100	Horz
4	5448.276	48.48	PK	34.9	-34.9	7.5	0.1	56.08	-	-	74	-17.92	100	Horz
5	5529.235	44.28	PK	34.9	-34.9	7.6	0.1	51.98	-	-	68.2	-16.22	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/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
6	1152.924	52.34	PK	28.1	-35.8	3.3	0.1	48.04	53.97	-5.93	74	-25.96	200	Vert
7	1665.667	45.91	PK	29.5	-35.1	3.9	0.1	44.31	53.97	-9.66	74	-29.69	100	Vert
8	5367.316	44.8	PK	34.9	-34.9	7.5	0.1	52.4	53.97	-1.57	74	-21.6	200	Vert
9	5443.778	44.44	PK	34.9	-34.9	7.5	0.1	52.04	53.97	-1.93	74	-21.96	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 BR [dB]	dB(uVolts/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
10	15625.187	33.89	PK	41.1	-32.9	13.5	0.2	55.79	-	-	74	-18.21	200	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 BR [dB]	dB(uVolts/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
11	12746.627	34.03	PK	39.2	-32.2	12	0.2	53.23	-	-	68.2	-14.97	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 BR [dB]	dB(uVolts/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
12	15873.063	22.35	PK	41.4	-32.9	13.7	0.2	44.75	53.97	-9.22	74	-29.25	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 BR [dB]	dB(uVolts/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
13	12750.625	23.16	PK	39.2	-32.2	12	0.2	42.36	-	-	68.2	-25.84	100	Vert

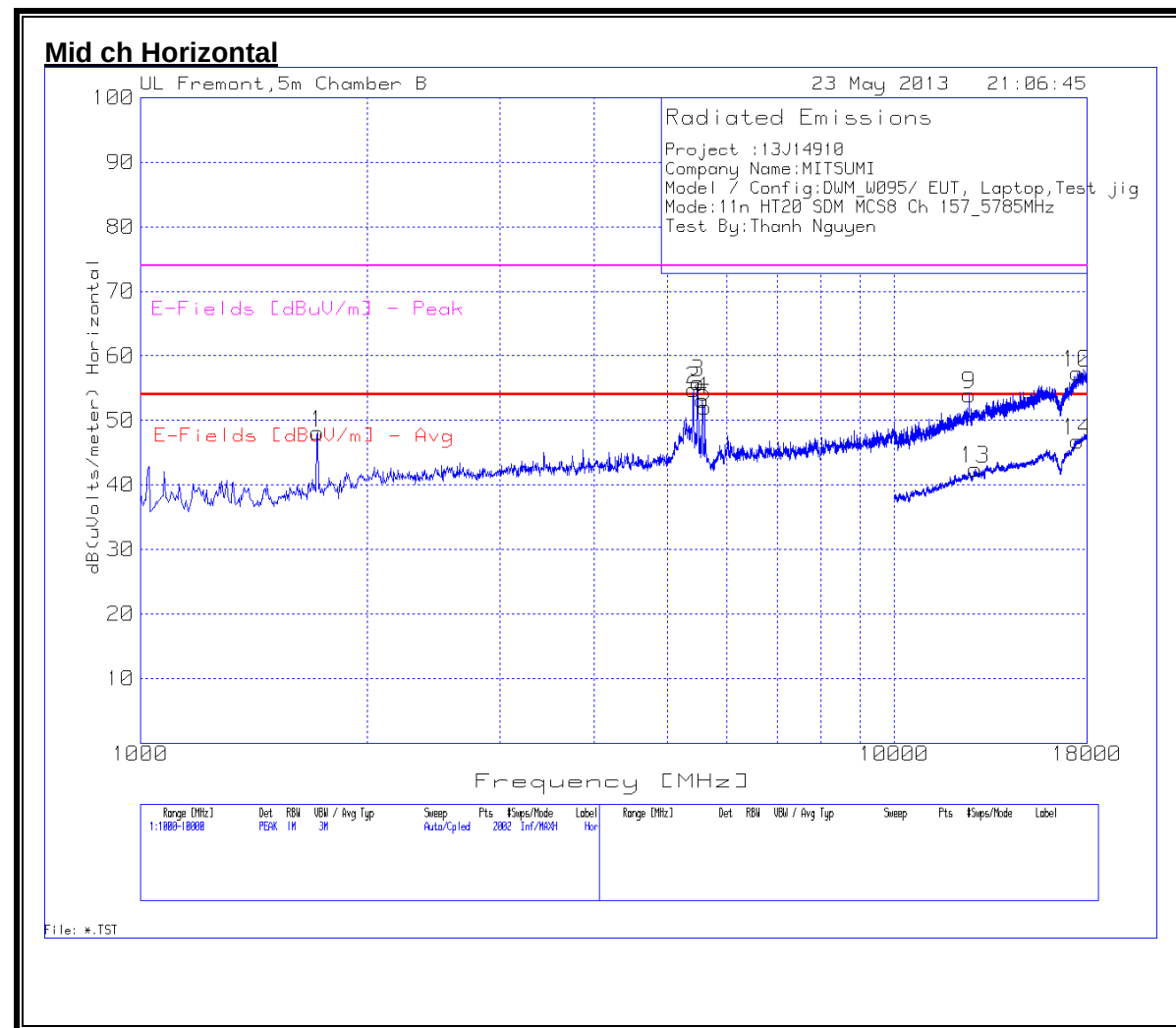
Horizontal 1000 - 10000MHz

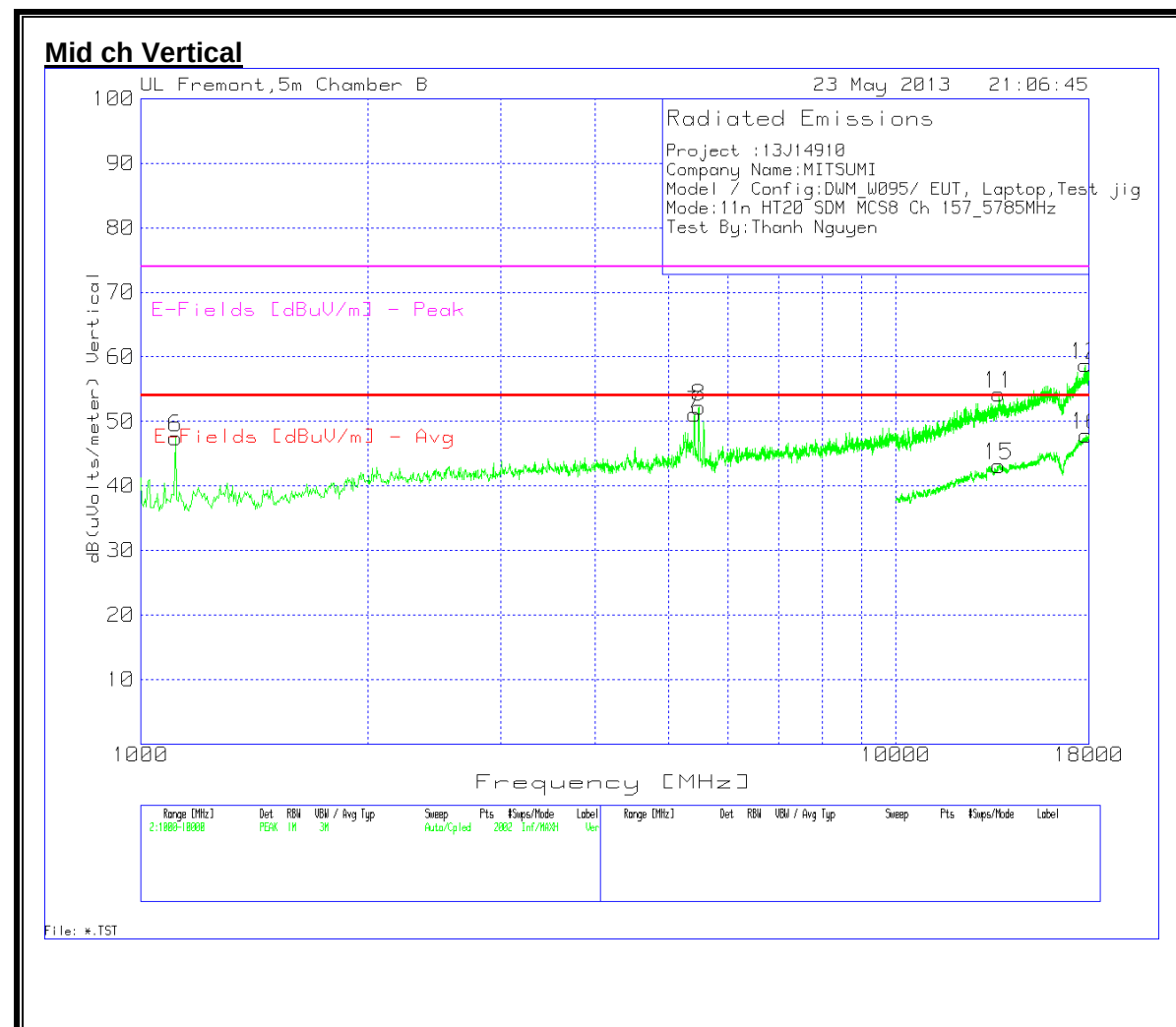
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	dB(uVolts/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
3	5371.6068	30.25	Av	34.9	-34.9	7.5	0.1	37.85	53.97	-16.12	-	-	170	Horz
4	5449.4705	31.44	Av	34.9	-34.9	7.5	0.1	39.04	53.97	-14.93	-	-	146	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/m eter)	FCC Part 15C 15.209 Avg	Average Margin	FCC Part 15C Peak	Peak Margin	Height [cm]	Polarity
8	5370.0111	22.79	Av	34.9	-34.9	7.5	0.1	30.39	53.97	-23.58	-	-	195	Vert
9	5444.207	22.5	Av	34.9	-34.9	7.5	0.1	30.1	53.97	-23.87	-	-	110	Vert

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





MID CHANNEL DATA

Project :13J14910
Company Name:MITSUMI
Model / Config:DWM_W095/ EUT, Laptop,Test jig
Mode:11n HT20 SDM MCS8 Ch 157_5785MHz
Test By:Thanh Nguyen

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency	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	1719.64	49.28	PK	29.9	-35.1	3.9	0.1	48.08	53.97	-5.89	74	-25.92	300	Horz
2	5412.294	47.13	PK	34.9	-34.9	7.5	0.1	54.73	53.97	0.76	74	-19.27	100	Horz
3	5488.756	48.17	PK	34.9	-34.9	7.6	0.1	55.87	-	-	68.2	-12.33	100	Horz
4	5565.217	45.41	PK	35	-34.9	7.6	0.1	53.21	-	-	68.2	-14.99	100	Horz
5	5605.697	44.17	PK	35	-34.9	7.7	0.1	52.07	-	-	68.2	-16.13	100	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency	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	1112.444	51.96	PK	27.9	-35.8	3.3	0.1	47.46	53.97	-6.51	74	-26.54	400	Vert
7	5412.294	43.56	PK	34.9	-34.9	7.5	0.1	51.16	53.97	-2.81	74	-22.84	200	Vert
8	5484.258	44.51	PK	34.9	-34.9	7.6	0.1	52.21	-	-	68.2	-15.99	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency	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
9	12566.717	35.01	PK	39.2	-32.4	11.9	0.2	53.91	-	-	74	-20.09	100	Horz
10	17484.258	32.11	PK	42	-31.5	14.5	0.2	57.31	-	-	68.2	-10.89	200	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency	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
11	13690.155	34.38	PK	39.1	-32	12.5	0.2	54.18	-	-	68.2	-14.02	200	Vert
12	17820.09	33.07	PK	42.2	-31.4	14.7	0.2	58.77	-	-	74	-15.23	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency	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
13	12798.601	23.21	PK	39.2	-32.1	12	0.2	42.51	-	-	68.2	-25.69	200	Horz
14	17476.262	21.75	PK	42	-31.6	14.5	0.2	46.85	-	-	68.2	-21.35	200	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency	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
15	13686.157	23.4	PK	39.1	-32	12.5	0.2	43.2	-	-	68.2	-25	100	Vert
16	17848.076	22.1	PK	42.2	-31.3	14.7	0.2	47.9	53.97	-6.07	74	-26.1	200	Vert

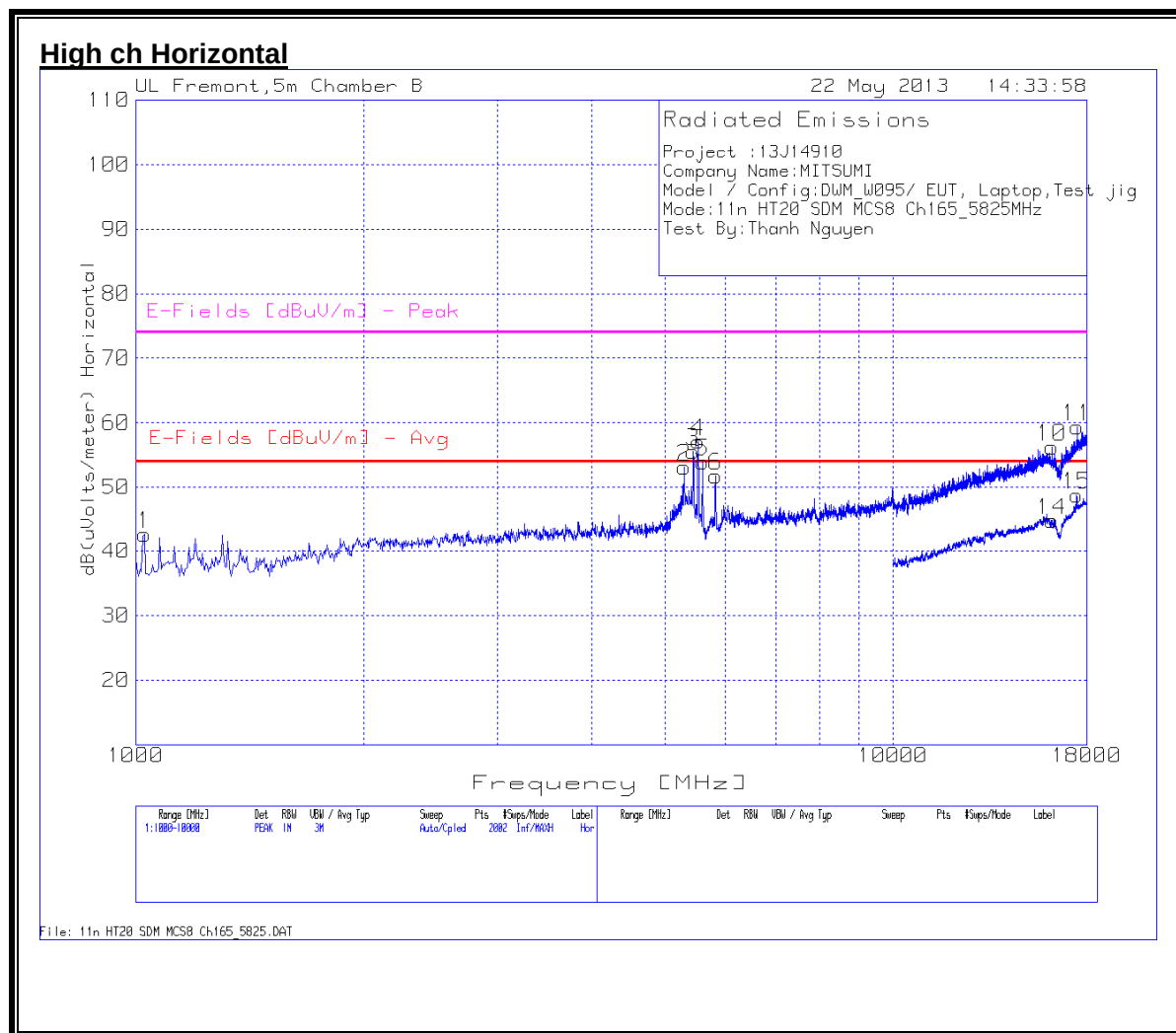
Horizontal 1000 - 10000MHz

Marker No.	Test Frequency	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
2	5412.0665	21.06	Av	34.9	-34.9	7.5	0.1	28.66	53.97	-25.31	-	-	163	Horz

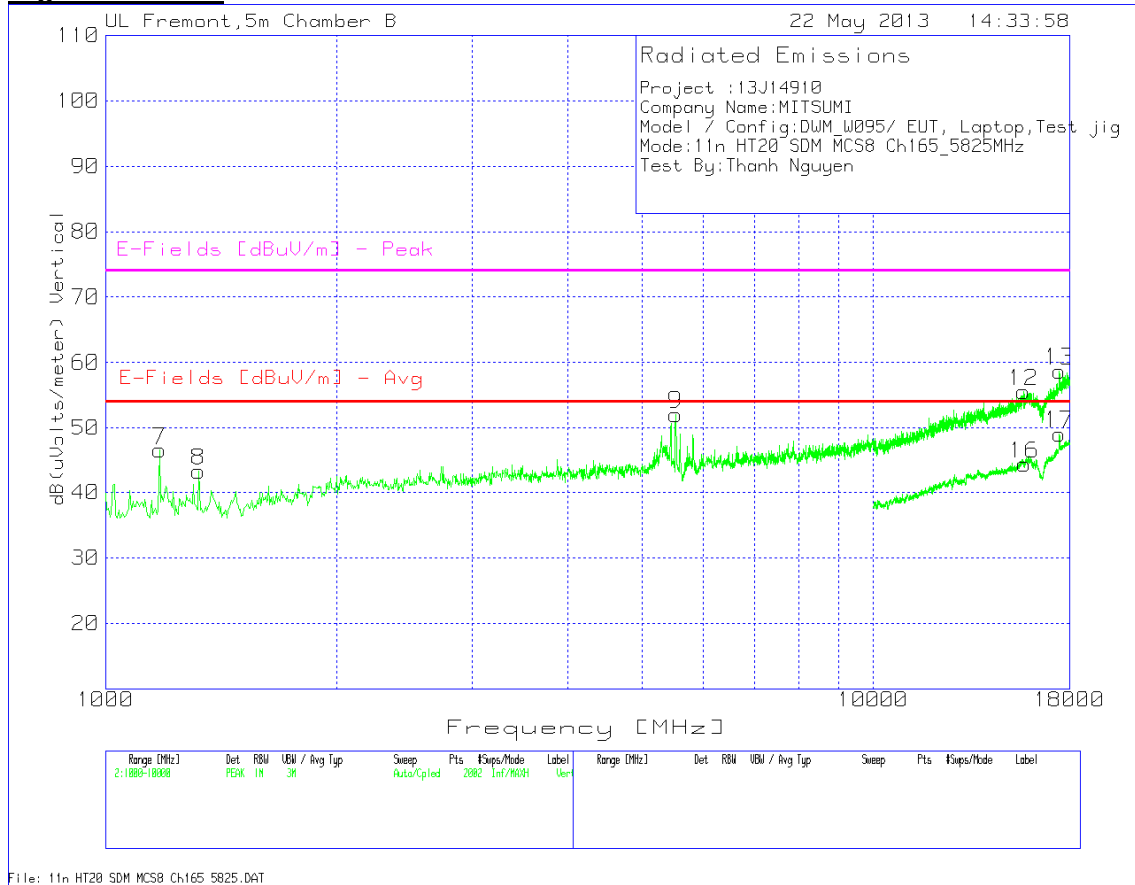
Vertical 1000 - 10000MHz

Marker No.	Test Frequency	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
7	5413.421	20.56	Av	34.9	-34.9	7.5	0.1	28.16	53.97	-25.81	-	-	116	Vert

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



High ch Vertical



HIGH CHANNEL DATA

Project :13J14910

Company Name: MITSUMI

Model / Config: DWM_W095/ EUT, Laptop, Test jig

Mode: 11n HT20 SDM MCS8 Ch165_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]	Corrected Reading 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	5299.85	45.68	PK	34.9	-34.9	7.4	0.1	53.18	-	-	68.2	-15.02	100	Horz
3	5448.276	48	PK	34.9	-34.9	7.5	0.1	55.6	53.97	1.63	74	-18.4	200	Horz
4	5526.987	49.43	PK	34.9	-34.9	7.6	0.1	57.13	-	-	68.2	-11.07	200	Horz
5	5601.199	46.04	PK	35	-34.9	7.7	0.1	53.94	-	-	68.2	-14.26	100	Horz
6	5830.585	43.35	PK	35.4	-34.9	7.8	0.1	51.75	-	-	68.2	-16.45	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]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	1175.412	50.63	PK	28.2	-35.7	3.3	0.1	46.53	53.97	-7.44	74	-27.47	300	Vert
8	1323.838	46.6	PK	28.5	-35.5	3.5	0.1	43.2	53.97	-10.77	74	-30.8	200	Vert
9	5529.235	44.4	PK	34.9	-34.9	7.6	0.1	52.1	-	-	68.2	-16.1	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]	T167 HPF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	16204.898	33.52	PK	41.4	-32.7	13.8	0.2	56.22	-	-	68.2	-11.98	200	Horz
11	17480.26	34.21	PK	42	-31.6	14.5	0.2	59.31	-	-	68.2	-8.89	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]	T167 HPF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
12	15709.145	33.41	PK	41.2	-32.9	13.6	0.2	55.51	-	-	74	-18.49	200	Vert
13	17472.264	33.58	PK	42	-31.6	14.5	0.2	58.68	-	-	68.2	-9.52	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]	T167 HPF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
14	16196.902	22.03	PK	41.4	-32.7	13.8	0.2	44.73	53.97	-9.24	74	-29.27	400	Horz
15	17472.264	23.73	PK	42	-31.6	14.5	0.2	48.83	-	-	68.2	-19.37	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]	T167 HPF [dB]	Corrected Reading dB(uVolts /meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
16	15717.141	22.21	PK	41.2	-32.9	13.6	0.2	44.31	53.97	-9.66	74	-29.69	300	Vert
17	17472.264	24.01	PK	42	-31.6	14.5	0.2	49.11	-	-	68.2	-19.09	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
3	5448.4369	22.18	Av	34.9	-34.9	7.5	0.1	29.78	53.97	-24.19	-	-	153	Horz

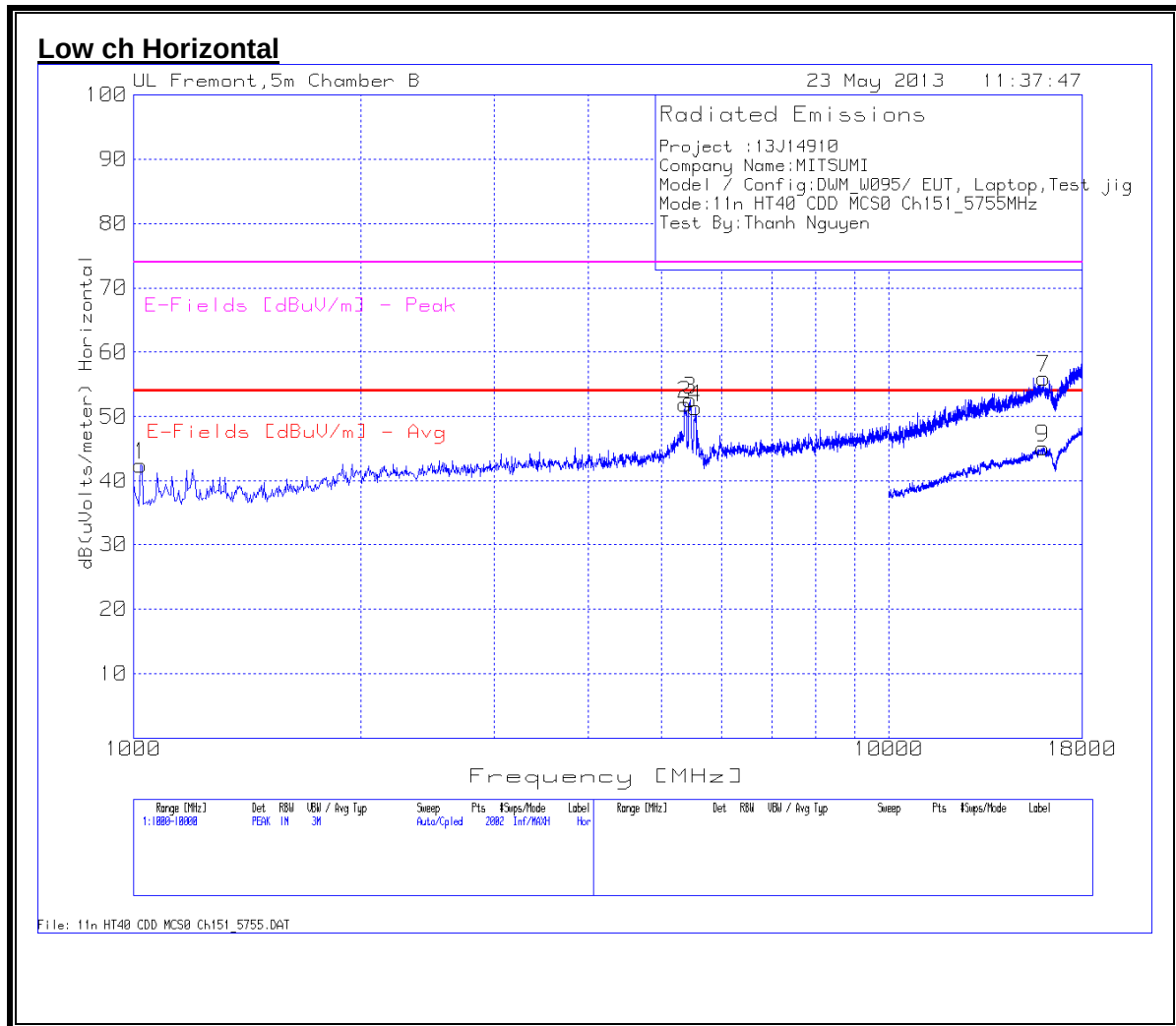
PK - Peak detector

QP - Quasi-Peak detector

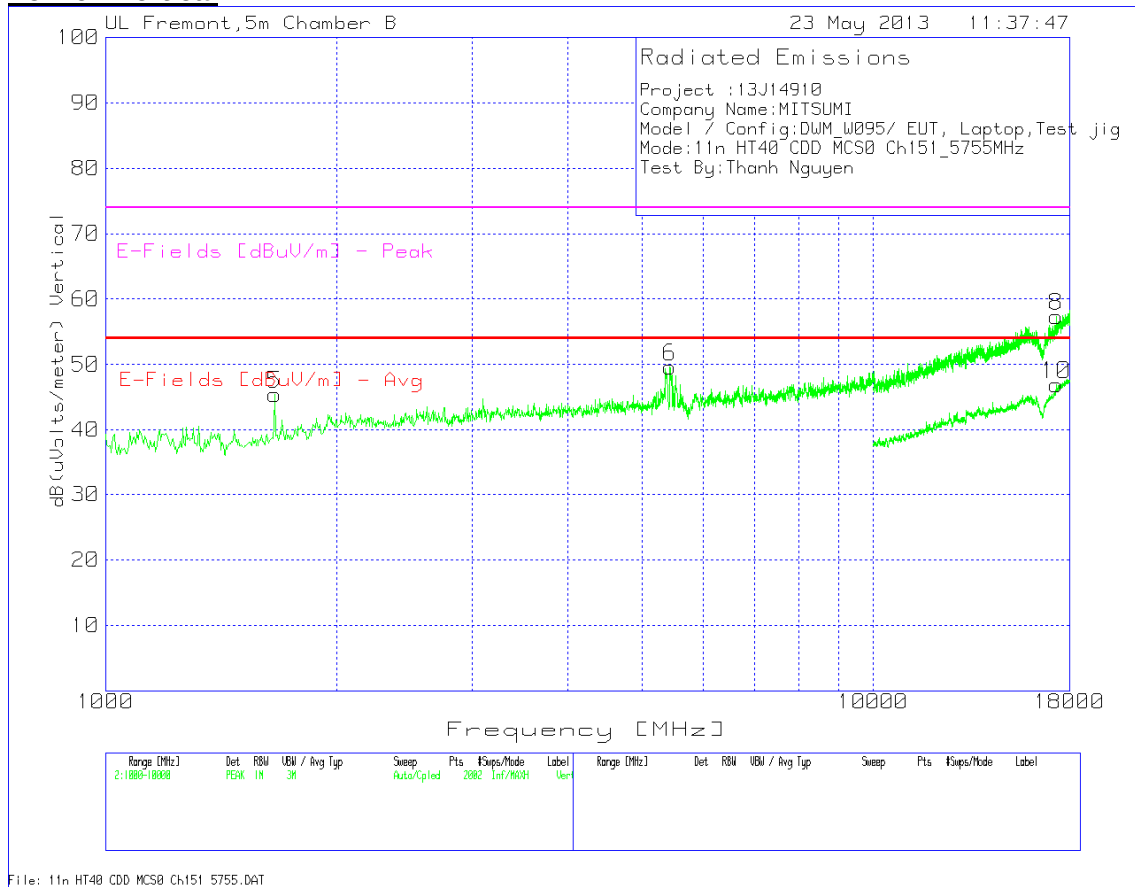
Av - Average detector

9.2.6 TX ABOVE 1 GHz 802.11n HT40 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 HT40 CDD MCS0 Ch151_5755MHz

Test By: Thanh Nguyen

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency	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
1	1022.489	47.67	PK	27.5	-36	3.2	0.1	42.47	53.97	-11.5	74	-31.53	100	Horz
2	5371.814	44.3	PK	34.9	-34.9	7.5	0.1	51.9	53.97	-2.07	74	-22.1	100	Horz
3	5461.769	44.9	PK	34.9	-34.9	7.6	0.1	52.6	-	-	68.2	-15.6	100	Horz
4	5547.226	43.59	PK	35	-34.9	7.6	0.1	51.39	-	-	68.2	-16.81	100	Horz

Vertical 1000 - 10000MHz

Marker No.	Test Frequency	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
5	1661.169	47.09	PK	29.4	-35.1	3.9	0.1	45.39	53.97	-8.58	74	-28.61	100	Vert
6	5434.783	42.03	PK	34.9	-34.9	7.5	0.1	49.63	53.97	-4.34	74	-24.37	200	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T167 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	16036.982	33.27	PK	41.6	-32.9	13.8	0.2	55.97	-	-	74	-18.03	100	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T167 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	17324.338	32.52	PK	41.7	-31.6	14.5	0.2	57.32	-	-	68.2	-10.88	100	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T167 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
9	16004.998	22.59	PK	41.6	-32.9	13.7	0.2	45.19	53.97	-8.78	74	-28.81	200	Horz

Vertical 10000 - 18000MHz

Marker No.	Test Frequency	Meter Reading [dBuV]	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T167 HPF [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	17316.342	22.09	PK	41.7	-31.6	14.5	0.2	46.89	-	-	68.2	-21.31	100	Vert

Horizontal 1000 - 10000MHz

Marker No.	Test Frequency	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
2	5372.762	31.28	Av	34.9	-34.9	7.5	0.1	38.88	53.97	-15.09	-	-	143	Horz

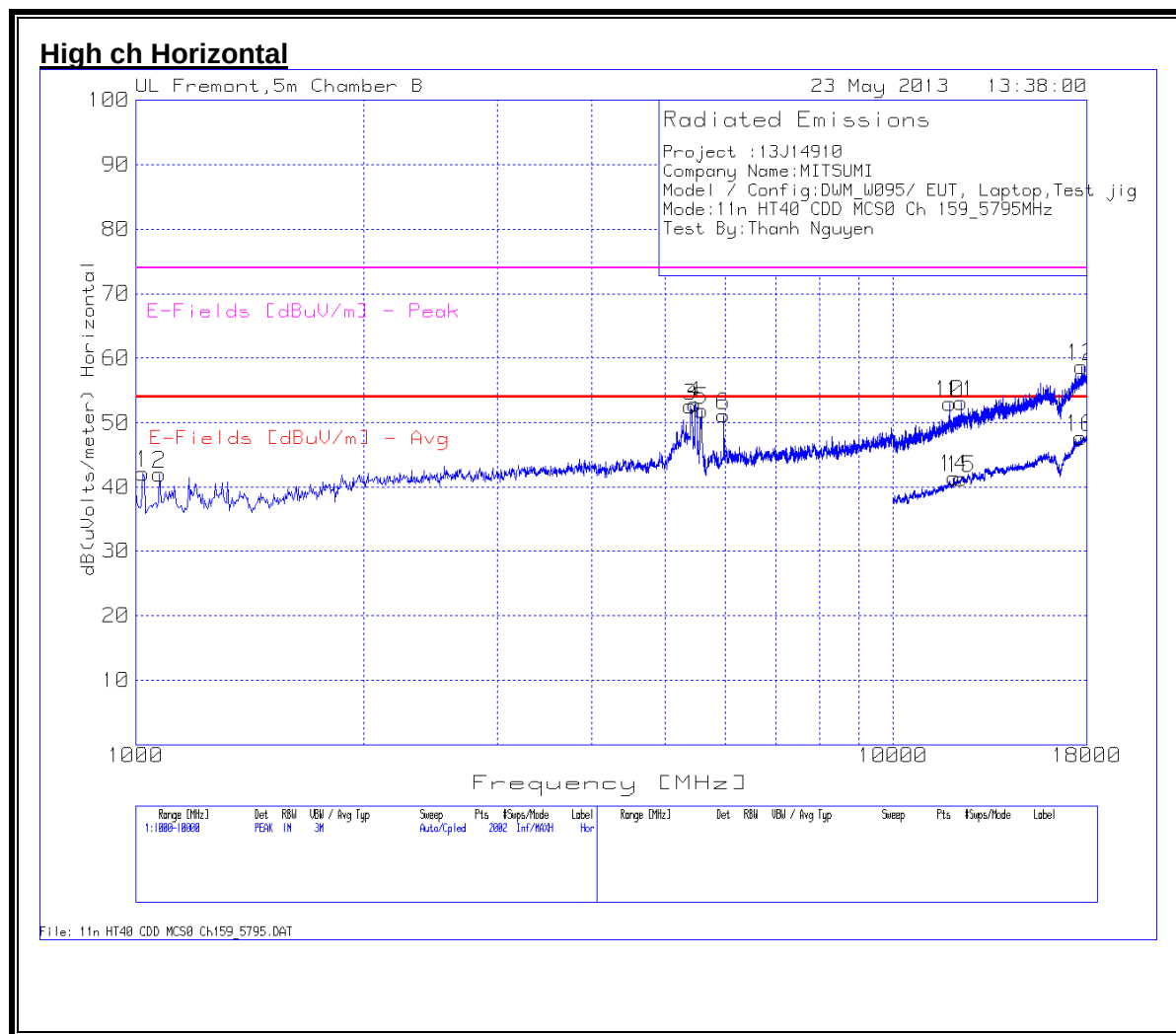
Vertical 1000 - 10000MHz

Marker No.	Test Frequency	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
6	5444.342	28.93	Av	34.9	-34.9	7.5	0.1	36.53	53.97	-17.44	-	-	164	Vert

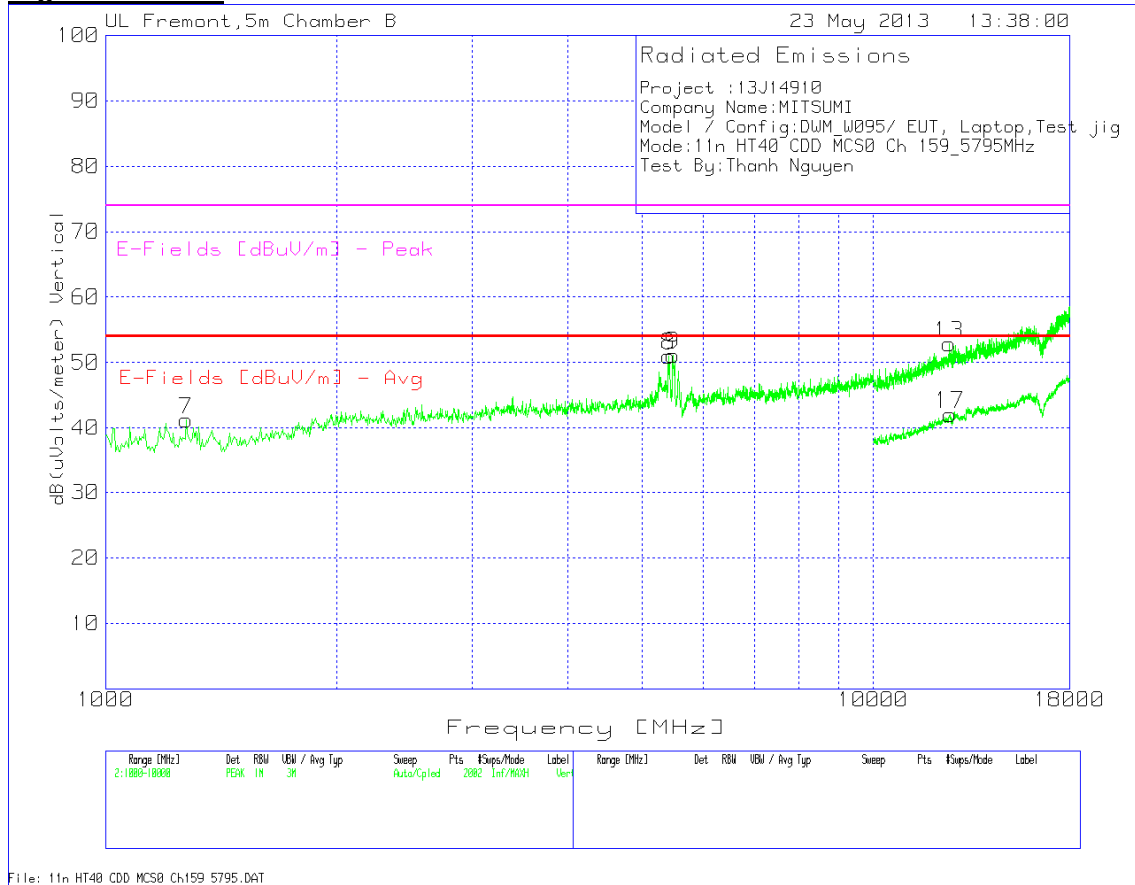
PK - Peak detector

QP - Quasi-Peak detector

Av - Average detector



High ch Vertical



HIGH CHANNEL DATA

Project :13J14910
Company Name: MITSUMI
Model / Config: DWM_W095/ EUT, Laptop, Test jig
Mode: 11n HT40 CDD MCS0 Ch 159_5795MHz
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/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1022.489	47.39	PK	27.5	-36	3.2	0.1	42.19	53.97	-11.78	74	-31.81	100	Horz
2	1076.462	46.9	PK	27.8	-35.9	3.2	0.1	42.1	53.97	-11.87	74	-31.9	100	Horz
3	5403.298	44.95	PK	34.9	-34.9	7.5	0.1	52.55	53.97	-1.42	74	-21.45	100	Horz
4	5475.262	45.18	PK	34.9	-34.9	7.6	0.1	52.88	-	-	68.2	-15.32	100	Horz
5	5587.706	44.08	PK	35	-34.9	7.6	0.1	51.88	-	-	68.2	-16.32	100	Horz
6	5979.01	42.29	PK	35.8	-34.9	7.9	0.1	51.19	-	-	68.2	-17.01	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/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	1274.363	44.68	PK	28.6	-35.6	3.4	0.1	41.18	-	-	68.2	-27.02	300	Vert
8	5407.796	43.36	PK	34.9	-34.9	7.5	0.1	50.96	53.97	-3.01	74	-23.04	200	Vert
9	5484.258	43.39	PK	34.9	-34.9	7.6	0.1	51.09	-	-	68.2	-17.11	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]	T167 HPF [dB]	Corrected Reading dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
10	11863.068	35.58	PK	39.1	-33.4	11.5	0.2	52.98	-	-	74	-21.02	200	Horz
11	12282.859	34.89	PK	39.2	-32.9	11.7	0.2	53.09	-	-	74	-20.91	200	Horz
12	17732.134	33.02	PK	42.2	-31.4	14.7	0.2	58.72	-	-	74	-15.28	200	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]	T167 HPF [dB]	Corrected Reading dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
13	12554.723	34.02	PK	39.2	-32.5	11.9	0.2	52.82	-	-	74	-21.18	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]	T167 HPF [dB]	Corrected Reading dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
14	12018.991	23.81	PK	39.2	-33.3	11.6	0.2	41.51	53.97	-12.46	74	-32.49	100	Horz
15	12278.861	23.15	PK	39.2	-32.9	11.7	0.2	41.35	53.97	-12.62	74	-32.65	100	Horz
16	17668.166	22.27	PK	42.1	-31.4	14.6	0.2	47.77	53.97	-6.2	74	-26.23	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]	T167 HPF [dB]	Corrected Reading dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
17	12574.713	23.13	PK	39.2	-32.4	11.9	0.2	42.03	53.97	-11.94	74	-31.97	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/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	5403.4223	28.05	Av	34.9	-34.9	7.5	0.1	35.65	53.97	-18.32	-	-	137	Horz

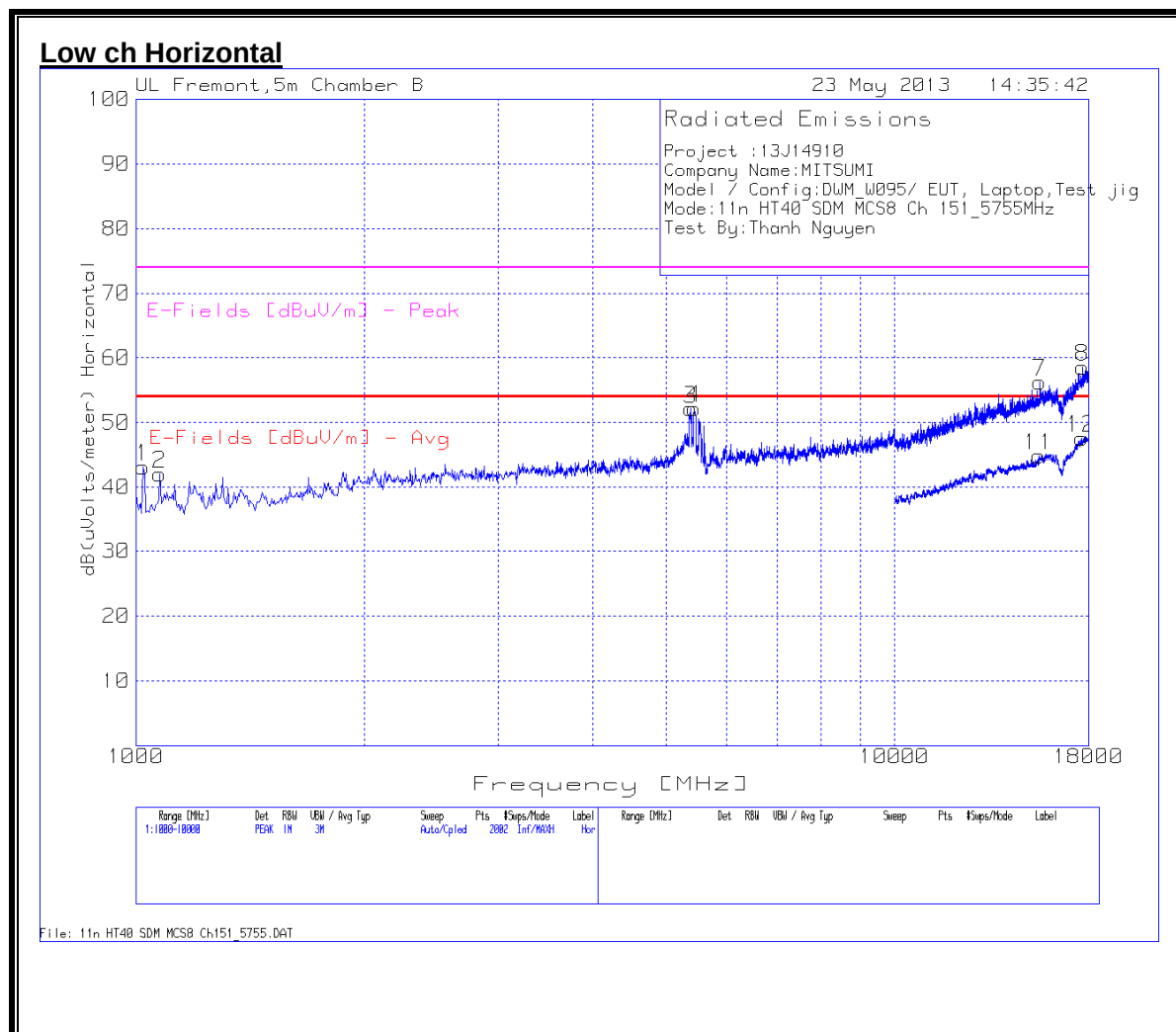
Vertical 1000 - 10000MHz

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/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	5414.7553	20.77	Av	34.9	-34.9	7.5	0.1	28.37	53.97	-25.6	-	-	292	Vert

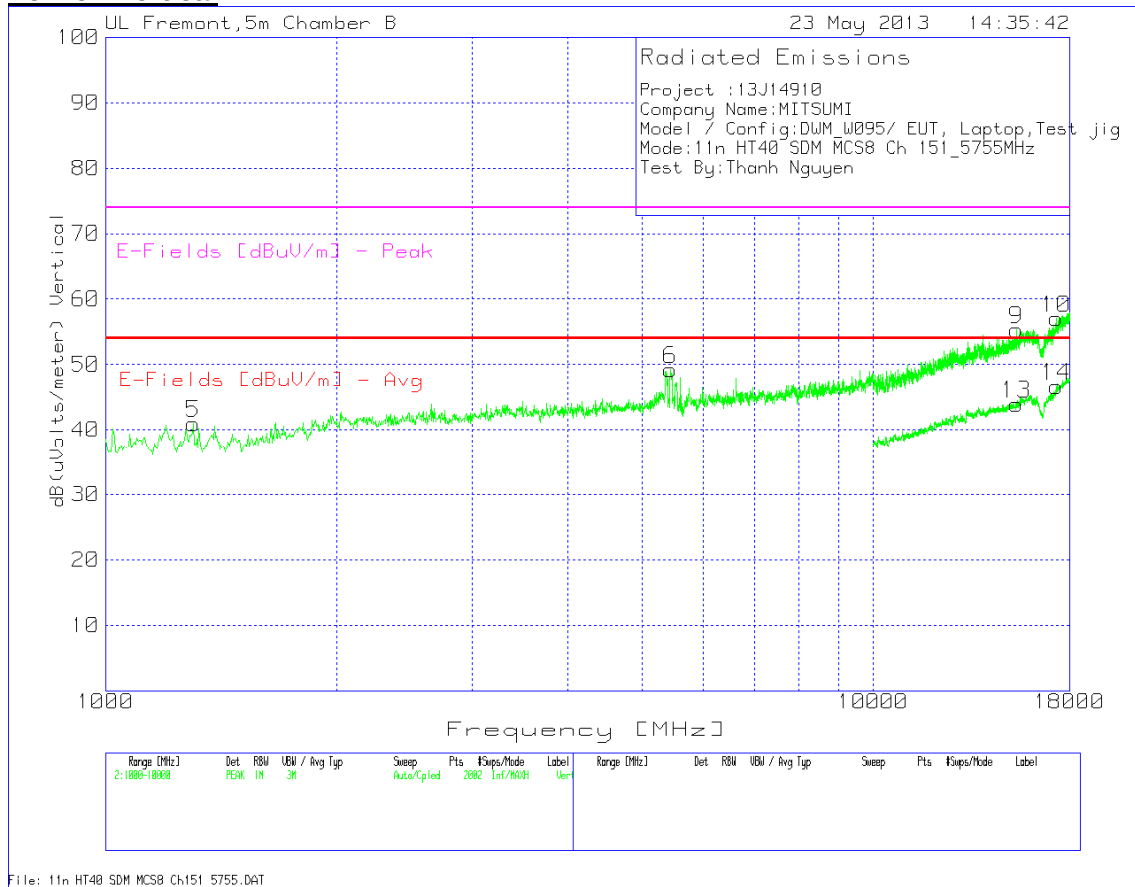
PK - Peak detector
QP - Quasi-Peak detector
Av - Average detector

9.2.7 TX ABOVE 1 GHz 802.11n HT40 SDM MCS8 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 HT40 SDM MCS8 Ch 151_5755MHz
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]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1022.489	48.29	PK	27.5	-36	3.2	0.1	43.09	53.97	-10.88	74	-30.91	100	Horz
2	1076.462	46.82	PK	27.8	-35.9	3.2	0.1	42.02	53.97	-11.95	74	-31.98	100	Horz
3	5385.307	44.54	PK	34.9	-34.9	7.5	0.1	52.14	53.97	-1.83	74	-21.86	100	Horz
4	5448.276	44.61	PK	34.9	-34.9	7.5	0.1	52.21	53.97	-1.76	74	-21.79	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]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
5	1301.349	44.32	PK	28.5	-35.5	3.5	0.1	40.92	53.97	-13.05	74	-33.08	400	Vert
6	5448.276	41.64	PK	34.9	-34.9	7.5	0.1	49.24	53.97	-4.73	74	-24.76	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 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	15513.243	34.57	PK	40.9	-32.9	13.5	0.2	56.27	-	-	74	-17.73	100	Horz
8	17700.15	32.93	PK	42.2	-31.4	14.7	0.2	58.63	-	-	74	-15.37	200	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 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
9	15369.315	34.03	PK	40.6	-32.9	13.4	0.2	55.33	-	-	74	-18.67	200	Vert
10	17300.35	32.42	PK	41.7	-31.7	14.4	0.2	57.02	-	-	68.2	-11.18	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 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	15501.249	23.14	PK	40.9	-32.9	13.5	0.2	44.84	53.97	-9.13	74	-29.16	200	Horz
12	17648.176	22.18	PK	42.1	-31.5	14.6	0.2	47.58	-	-	68.2	-20.62	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]	T163 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
13	15357.321	22.61	PK	40.6	-32.9	13.4	0.2	43.91	53.97	-10.06	74	-30.09	200	Vert
14	17316.342	21.86	PK	41.7	-31.6	14.5	0.2	46.66	-	-	68.2	-21.54	200	Vert

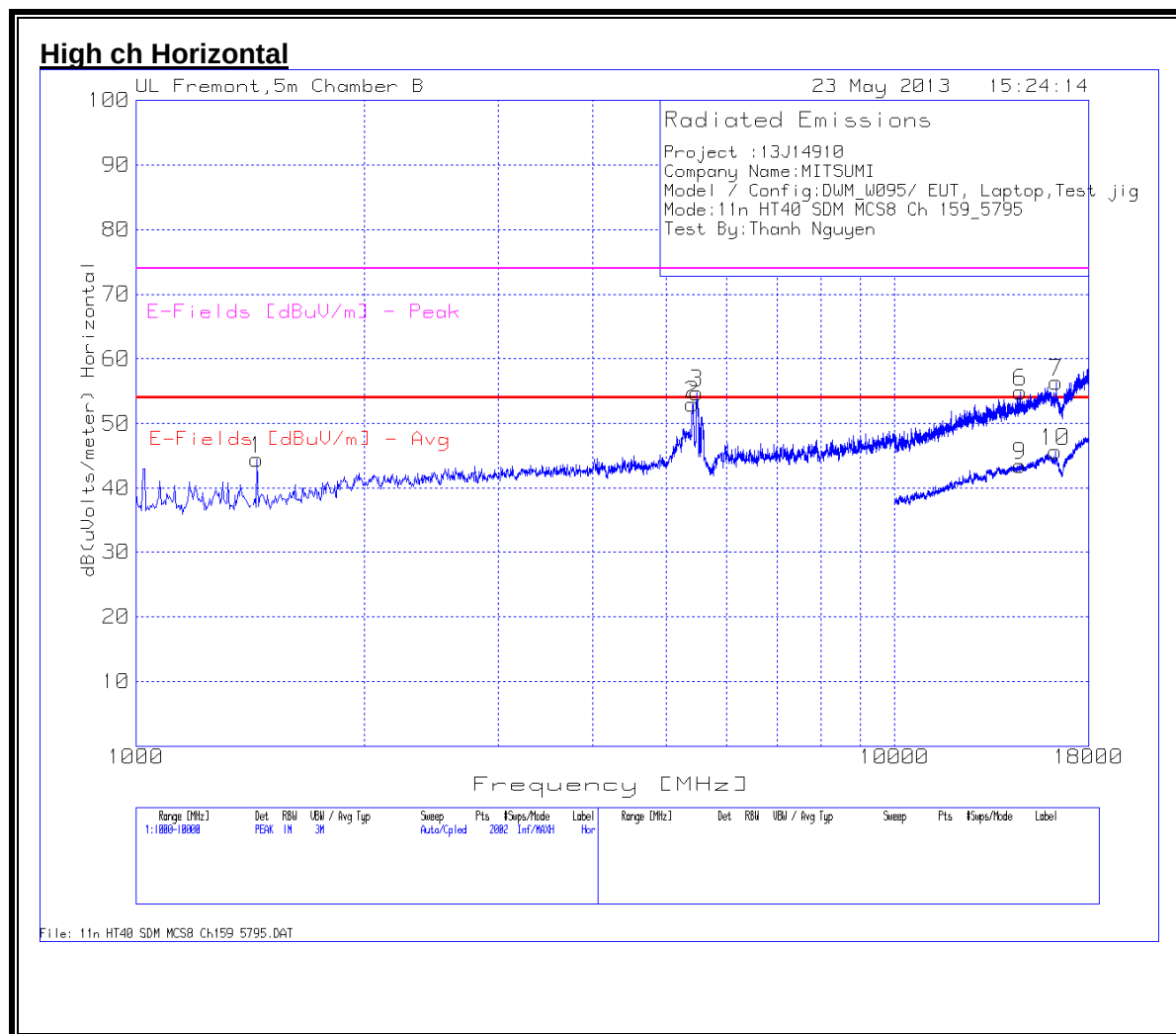
Horizontal 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
3	5383.889	22.54	Av	34.9	-34.9	7.5	0.1	30.14	53.97	-23.83	-	-	362	Horz
4	5447.326	21.33	Av	34.9	-34.9	7.5	0.1	28.93	53.97	-25.04	-	-	222	Horz

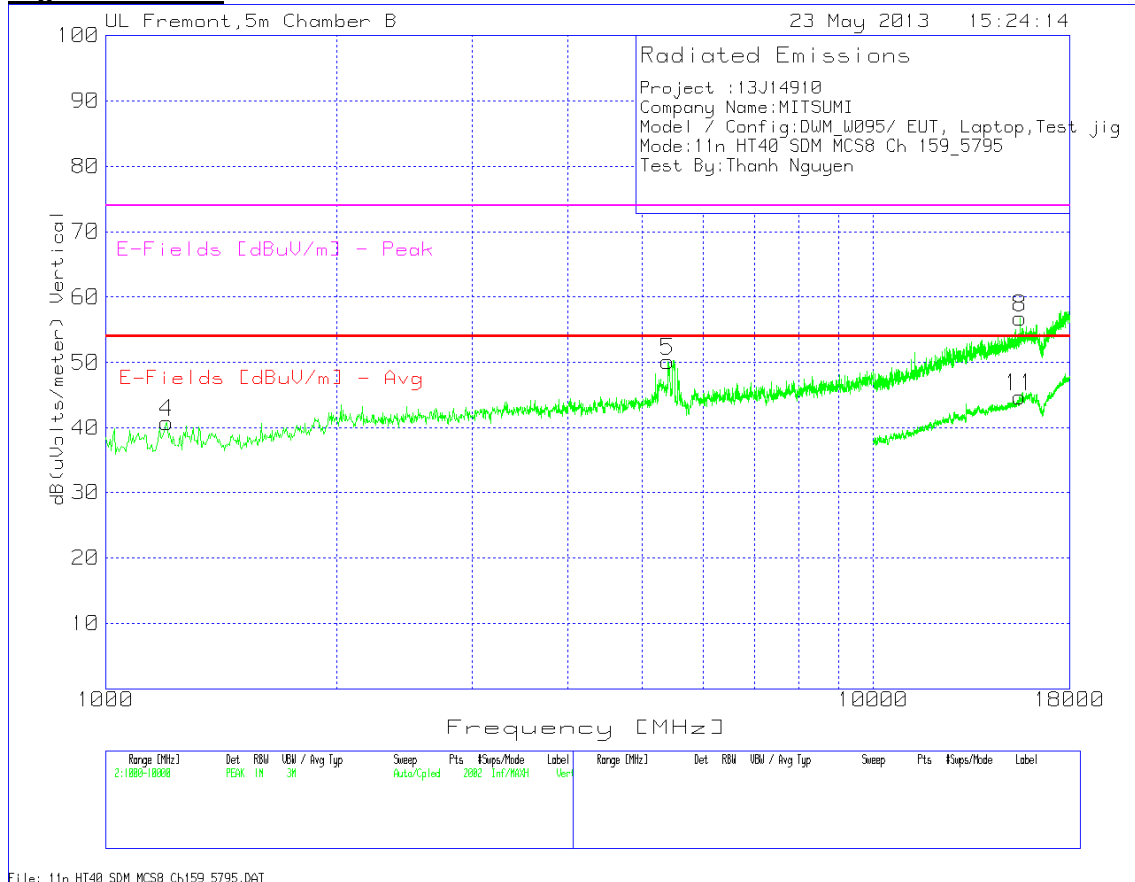
Vertical 1000 - 10000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T163 BR [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	5449.526	21.25	Av	34.9	-34.9	7.5	0.1	28.85	53.97	-25.12	-	-	270	Vert

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



High ch Vertical



HIGH CHANNEL DATA

Project :13J14910

Company Name:MITSUMI

Model / Config:DWM_W095/ EUT, Laptop,Test jig

Mode:11n HT40 SDM MCS8 Ch 159_5795

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/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1445.277	47.75	PK	28.3	-35.3	3.6	0.1	44.45	-	-	68.2	-29.55	100	Horz
2	5412.294	45.48	PK	34.9	-34.9	7.5	0.1	53.08	53.97	-0.89	74	-20.92	100	Horz
3	5479.76	47.1	PK	34.9	-34.9	7.6	0.1	54.8	-	-	68.2	-19.2	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/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
4	1202.399	44.6	PK	28.4	-35.7	3.4	0.1	40.8	53.97	-13.17	74	-33.2	100	Vert
5	5403.298	42.57	PK	34.9	-34.9	7.5	0.1	50.17	53.97	-3.8	74	-23.83	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]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	14645.677	34.62	PK	39.8	-32.7	13	0.2	54.92	-	-	68.2	-19.08	200	Horz
7	16332.834	33.55	PK	41.4	-32.6	13.9	0.2	56.45	-	-	68.2	-17.55	200	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]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
8	15513.243	35.17	PK	40.9	-32.9	13.5	0.2	56.87	-	-	74	-17.13	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]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
9	14625.687	23.19	PK	39.8	-32.7	13	0.2	43.49	-	-	68.2	-30.51	200	Horz
10	16300.85	22.85	PK	41.4	-32.6	13.9	0.2	45.75	-	-	68.2	-28.25	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]	dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11	15505.247	23.01	PK	40.9	-32.9	13.5	0.2	44.71	53.97	-9.26	74	-29.29	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/m eter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
2	5412.2983	13.04	Av	34.9	-34.9	7.5	0.1	20.64	53.97	-33.33	-	-	304	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/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	5403.8379	11.27	Av	34.9	-34.9	7.5	0.1	18.87	53.97	-35.1	-	-	364	Vert

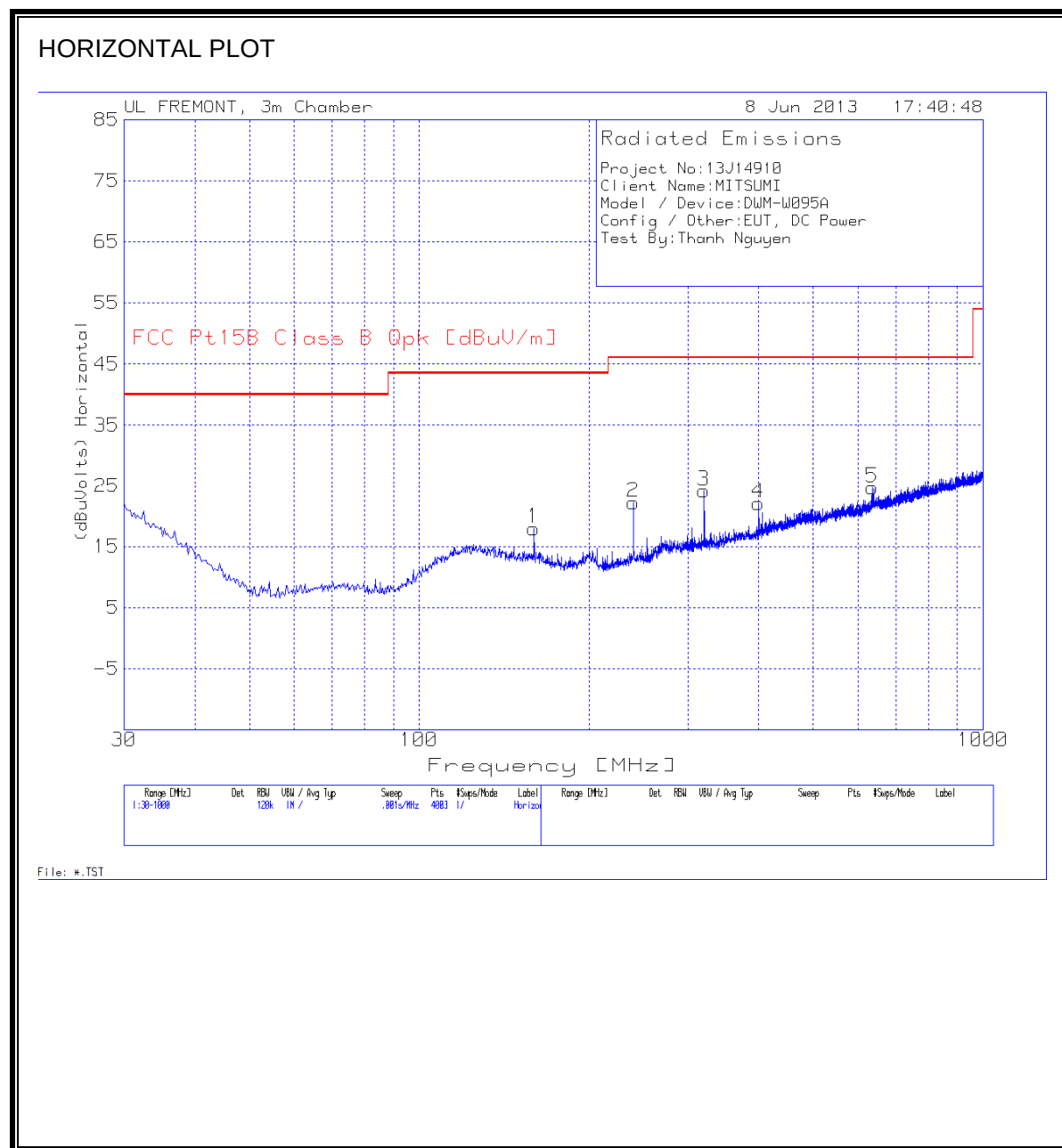
PK - Peak detector

QP - Quasi-Peak detector

Av - Average detector

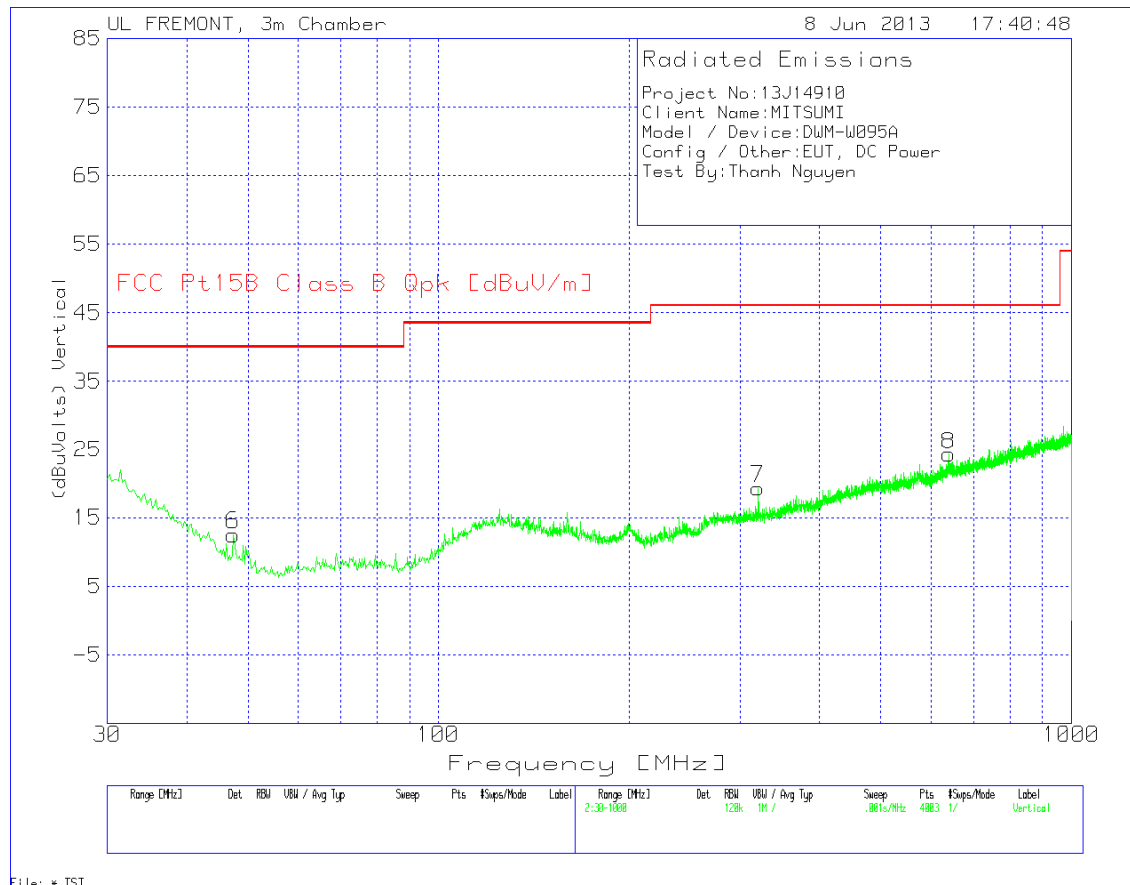
9.3. WORST-CASE BELOW 1 GHz

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



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

VERTICAL PLOT



EMISSIONS DATA

Project No:13J14910											
Client Name:MITSUMI											
Model / Device:DWM-W095A											
Config / Other:EUT, DC Power											
Test By:Thanh Nguyen											
Marker No.	Test Frequency	Meter Reading	Detector	Antenna T185	3m Loop	DC Corr [dB]	(dBuVolts)	FCC Pt15B Class B Qpk [dBuV/m]	Margin (dB)	Height [cm]	Polarity
Horizontal 30 - 1000MHz											
1	159.8826	31.83	PK	12.2	-26.2	0.1	17.93	43.52	-25.59	301	Horz
2	239.8476	36.03	PK	11.6	-25.5	0.1	22.23	46.02	-23.79	100	Horz
3	320.055	35.44	PK	13.8	-25.2	0.1	24.14	46.02	-21.88	100	Horz
4	400.02	32.26	PK	15.4	-25.7	0.1	22.06	46.02	-23.96	100	Horz
5	635.311	30.33	PK	19.6	-25.3	0.1	24.73	46.02	-21.29	400	Horz
Vertical 30 - 1000MHz											
6	47.4469	30.65	PK	9	-27.3	0.1	12.45	40	-27.55	99	Vert
7	320.055	30.59	PK	13.8	-25.2	0.1	19.29	46.02	-26.73	249	Vert
8	639.4304	29.73	PK	19.7	-25.3	0.1	24.23	46.02	-21.79	99	Vert

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

Project No:13J14910

Client Name:MITSUMI

Model/Device:EUT; Tx Worst Case

Test Volt/Freq: 120VAC/60Hz

Test By: K. NGUYEN

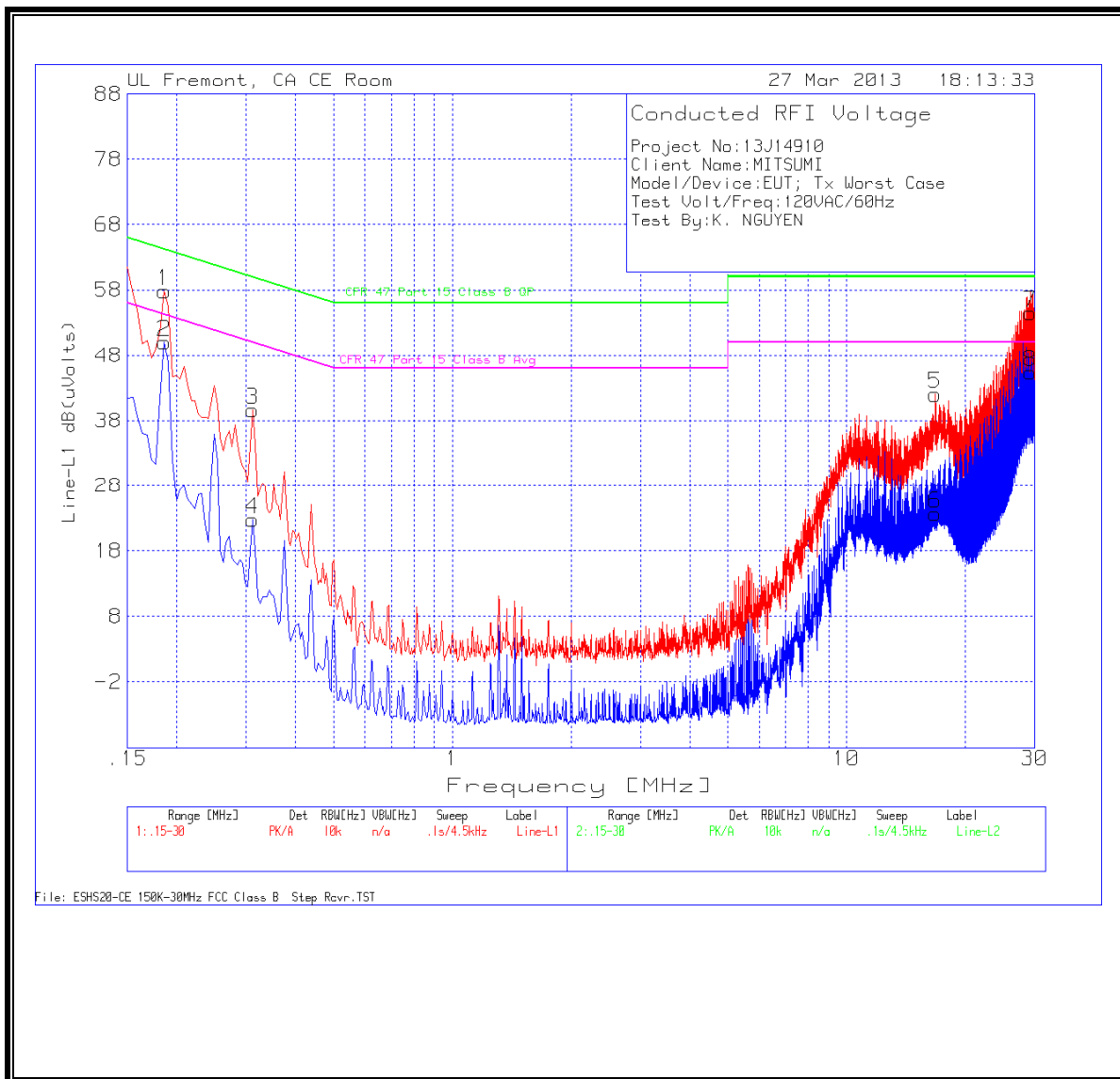
Line-L1 .15 - 30MHz

Test Frequency	Meter Reading	Detector	T24 IL L1.TXT (dB)	LC Cables (dB)	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
0.186	57.75	PK	0.1	0	57.85	64.2	-6.35	-	-
0.186	49.88	Av	0.1	0	49.98	-	-	54.2	-4.22
0.312	39.52	PK	0.1	0	39.62	59.9	-20.28	-	-
0.312	22.68	Av	0.1	0	22.78	-	-	49.9	-27.12
16.8135	41.62	PK	0.2	0.2	42.02	60	-17.98	-	-
16.8135	23.21	Av	0.2	0.2	23.61	-	-	50	-26.39
29.3325	53.71	PK	0.5	0.3	54.51	60	-5.49	-	-
29.3325	44.56	Av	0.5	0.3	45.36	-	-	50	-4.64

Line-L2 .15 - 30MHz

Test Frequency	Meter Reading	Detector	T24 IL L2.TXT (dB)	LC Cables (dB)	dB(uVolts)	CFR 47 Part 15 Class B QP	Margin	CFR 47 Part 15 Class B Avg	Margin
0.186	56.96	PK	0.1	0	57.06	64.2	-7.14	-	-
0.186	52.72	Av	0.1	0	52.82	-	-	54.2	-1.38
0.312	36.34	PK	0.1	0	36.44	59.9	-23.46	-	-
0.312	30.58	Av	0.1	0	30.68	-	-	49.9	-19.22
16.818	38.56	PK	0.2	0.2	38.96	60	-21.04	-	-
16.818	22.94	Av	0.2	0.2	23.34	-	-	50	-26.66
29.454	50.58	PK	0.5	0.3	51.38	60	-8.62	-	-

LINE 1 RESULTS



LINE 2 RESULTS

