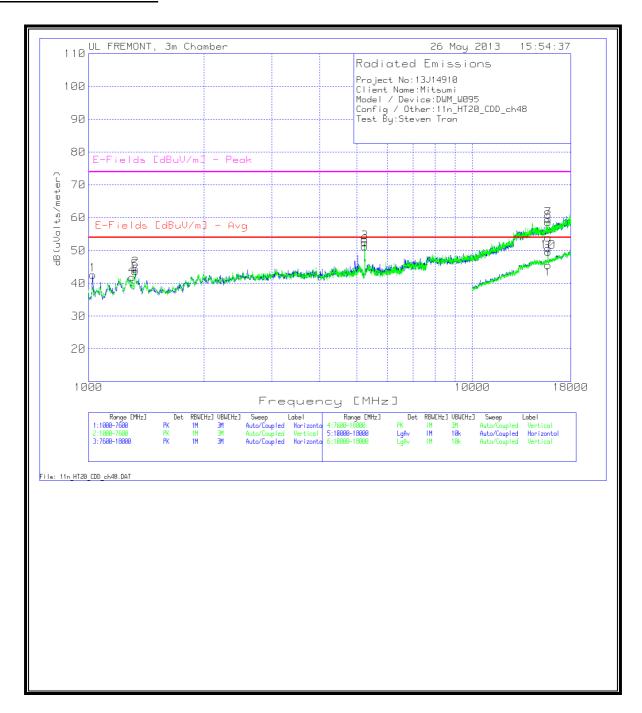
MID CHANNEL 40 DATA

Test Frequency (MHz) 1300.15 5195.502 7600MHz Test Frequency	Meter Reading (dBuV) 45.39 39.72	Detector	T119 Ant Factor (dB)		T159 BRF (dB)			Average	E-Fields [dBuV/m]	Peak Margin	Height [cm]	Polarity
5195.502 7600MHz Test Frequency				Cable Loss (dB)		eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	Peak	(dB)		, , , ,
7600MHz Test Frequency	39.72	PK	30.2	-32.9	0	42.69	54	-11.31	74	-31.31	99	Horz
Test Frequency		PK	34.3	-24.7	0.9	50.22	-	-		-	201	Horz
(MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor (dB)	T34 Preamp/ Cable Loss (dB)	T159 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
1326.537	46.5	PK	29.9	-32.8	0	43.6	54	-10.4	74	-30.4	201	Vert
5195.502	40.06	PK	34.3	-24.7	0.9	50.56	-	-	-		201	Vert
00 - 18000MHz												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor (dB)	T34 Preamp/ Cable Loss (dB)	T159 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
15598.801	34.98	PK	40.4	-16.6	0.4	59.18	-	-	74	-14.82	100	Horz
18000MHz							l					
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor (dB)	T34 Preamp/ Cable Loss (dB)	T159 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
15593.603	34.92	PK	40.4	-16.6	0.3	59.02	-	-	74	-14.98	201	Vert
000 - 18000MHz												
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor (dB)	T34 Preamp/ Cable Loss (dB)	T159 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
Test Frequency	Reading	Detector		Cable Loss	T159 BRF (dB)						Height [cm]	Polarity
Test Frequency (MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)		eter)	Avg	Margin (dB)	Peak	(dB)		
Test Frequency (MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB) -16.6		eter) 51.19	Avg 54	Margin (dB)	Peak	(dB) -22.81	99	Horz
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency	Reading (dBuV) 26.99 Meter Reading	PK	40.4 T119 Ant	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss	0.4	eter) 51.19 dB(uVolts/m	54 E-Fields [dBuV/m] -	-2.81 Average	Peak 74 E-Fields [dBuV/m]	-22.81 Peak Margin	99	Horz
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency (MHz) 15601.199	Reading (dBuV) 26.99 Meter Reading (dBuV)	PK Detector	40.4 T119 Ant Factor (dB)	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB)	0.4 T159 BRF (dB)	51.19 dB(uVolts/m eter)	54 E-Fields [dBuV/m] - Avg	-2.81 Average Margin (dB)	Peak 74 E-Fields [dBuV/m] Peak	-22.81 Peak Margin (dB)	99 Height [cm]	Polarity
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency (MHz)	Reading (dBuV) 26.99 Meter Reading (dBuV)	PK Detector	40.4 T119 Ant Factor (dB)	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB) -16.6	0.4 T159 BRF (dB)	ster) 51.19 dB(uVolts/m eter) 49.79	S4 E-Fields [dBuV/m] - Avg 54	-2.81 Average Margin (dB)	Peak 74 E-Fields [dBuV/m] Peak	-22.81 Peak Margin (dB) -24.21	99 Height [cm]	Horz Polarity
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency (MHz) 15601.199 00 - 18000MHz Test Frequency	Reading (dBuV) 26.99 Meter Reading (dBuV) 25.59 Meter Reading	PK Detector	Factor (dB) 40.4 T119 Ant Factor (dB) 40.4 T119 Ant	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss	0.4 T159 BRF (dB)	dB(uVolts/m eter) dB(uVolts/m	54 E-Fields [dBuV/m] - Avg 54 E-Fields [dBuV/m] -	Average Margin (dB) -2.81 Average Margin (dB) -4.21	Peak 74 E-Fields [dBuV/m] Peak 74 E-Fields [dBuV/m]	-22.81 Peak Margin (dB) -24.21 Peak Margin	99 Height [cm]	Polarity Vert
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency (MHz) 15601.199 000 - 18000MHz Test Frequency (MHz)	Reading (dBuV) 26.99 Meter Reading (dBuV) 25.59 Meter Reading (dBuV)	PK Detector PK Detector	Factor (dB) 40.4 T119 Ant Factor (dB) 40.4 T119 Ant Factor (dB)	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB)	0.4 T159 BRF (dB) 0.4	dB(uVolts/m eter) dB(uVolts/m eter) dB(uVolts/m eter)	F-Fields [dBuV/m] - Avg E-Fields [dBuV/m] - Avg	Average Margin (dB) -2.81 Average Margin (dB) -4.21 Average Margin (dB)	Peak 74 E-Fields [dBuV/m] Peak 74 E-Fields [dBuV/m]	-22.81 Peak Margin (dB) -24.21 Peak Margin	99 Height [cm] 201 Height [cm]	Polarity Vert
Test Frequency (MHz) 15601.199 - 18000MHz Test Frequency (MHz) 15601.199 00 - 18000MHz Test Frequency (MHz)	Reading (dBuV) 26.99 Meter Reading (dBuV) 25.59 Meter Reading (dBuV)	PK Detector PK Detector	Factor (dB) 40.4 T119 Ant Factor (dB) 40.4 T119 Ant Factor (dB)	Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB) -16.6 T34 Preamp/ Cable Loss (dB) -16.6	0.4 T159 BRF (dB) 0.4	dB(uVolts/m eter) dB(uVolts/m eter) dB(uVolts/m eter) dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg 54 E-Fields [dBuV/m] - Avg 54 E-Fields [dBuV/m] - Avg	Average Margin (dB) -2.81 Average Margin (dB) -4.21 Average Margin (dB)	Peak 74 E-Fields [dBuV/m] Peak 74 E-Fields [dBuV/m]	-22.81 Peak Margin (dB) -24.21 Peak Margin (dB)	99 Height [cm] 201 Height [cm]	Polarity Vert
	5195.502 00 - 18000MHz Test Frequency (MHz) 15598.801 - 18000MHz Test Frequency (MHz) 15593.603	5195.502 40.06	5195.502 40.06 PK	S195.502	5195.502	S195.502	S195.502	S195.502	S195.502	S195.502	S195.502	S195.502

HIGH CHANNEL 48 GRAPH

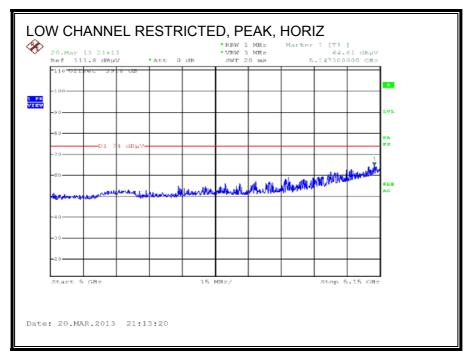


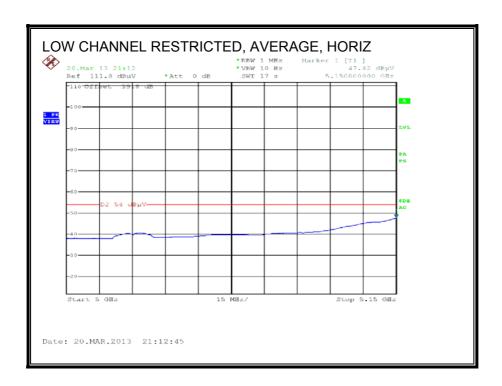
HIGH CHANNEL 48 DATA

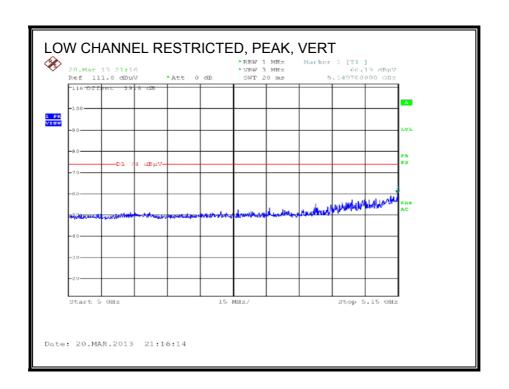
Average Margin -11.43 -9.47 - Average Margin -12.09 -10.37 - Average Margin Average Margin Average Margin - Average Margin	E-Fields [dBuV/m] - Peak 74 - 74 E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak E-Fields [dBuV/m] - Peak	-31.43 -29.47 - - -32.09 -30.37 - - -14.43	Height [cm] 99 99 201	Polarity Horz Horz Horz Horz Vert Vert Vert Vert Polarity Polarity
Average Margin -12.09 -10.37 - Average Margin Average Average	E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	-29.47	99 201 Height [cm] 201 201 201 Height [cm]	Polarity Vert Vert Vert Vert Vert Horz
Average Margin -12.09 -10.37 - Average Margin Average Average Average	E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak 74 C-Fields [dBuV/m] - Peak	- 32.09 - 30.37 - Peak Margin	201 Height [cm] 201 201 201 4Height [cm] Height [cm]	Polarity Vert Vert Vert Vert Horz
Average Average Average	- Peak 74 74 E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	-32.09 -30.37 - - Peak Margin	201 201 201 Height [cm]	Polarity Vert Vert Vert Polarity Horz
Average Average Average	- Peak 74 74 E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	-32.09 -30.37 - - Peak Margin	201 201 201 Height [cm]	Vert Vert Vert Polarity
Average Average Average	- Peak 74 74 E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	-32.09 -30.37 - - Peak Margin	201 201 201 Height [cm]	Vert Vert Vert Polarity
-10.37 - Average Margin - Average	74 - E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	-30.37 - Peak Margin	201 201 Height [cm]	Vert Vert Polarity Horz
Average Margin	E-Fields [dBuV/m] - Peak 74 E-Fields [dBuV/m] - Peak	Peak Margin	201 Height [cm]	Polarity Horz
Margin Average	- Peak 74 E-Fields [dBuV/m] - Peak	-14.43	99	Horz
Margin Average	- Peak 74 E-Fields [dBuV/m] - Peak	-14.43	99	Horz
Average	E-Fields [dBuV/m] - Peak			
	- Peak	Peak Margin	Height [cm]	Polarity
	- Peak	Peak Margin	Height [cm]	Polarity
-				
	74	-15.33	201	Vert
		15105	201	Yen
Average	E-Fields [dBuV/m]	Dook Margin	Height [cm]	Polarity
vg Margin	- Peak			
-3.27	74	-23.27	99	Horz
Average vg Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
-4.33	74	-24.33	201	Vert
Average vg Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
-11.47		-	100	Horz
Average vg Margin	E-Fields [dBuV/m] - Peak	Peak Margin	Height [cm]	Polarity
-13.42		-	199	Vert
	-3.27 Average Margin -4.33 Average Margin -11.47 Average Margin	-3.27 74 Average E-Fields [dBuV/m] - Peak - Peak	-3.27 74 -23.27 Average E-Fields [dBuV/m] Peak Margin	-3.27 74 -23.27 99 Average E-Fields GBuV/m Peak Margin Height Cm

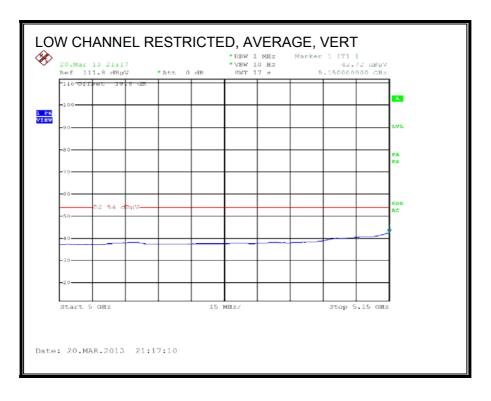
9.4. 802.11n HT20 SDM MCS8 2TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



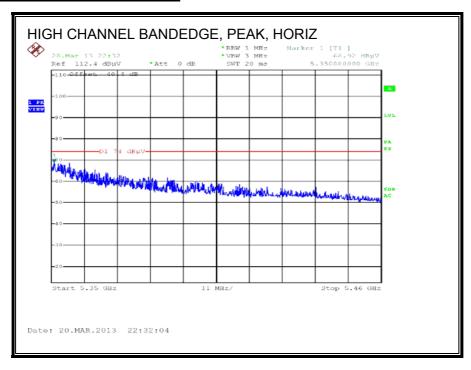


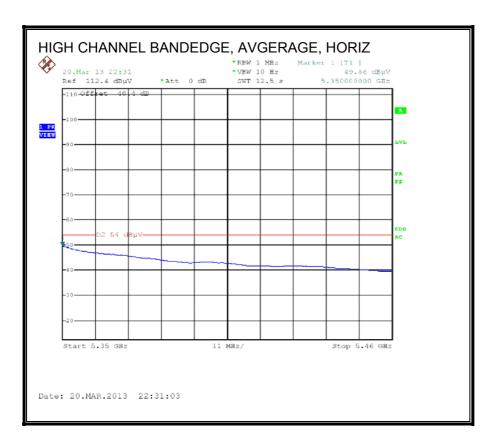


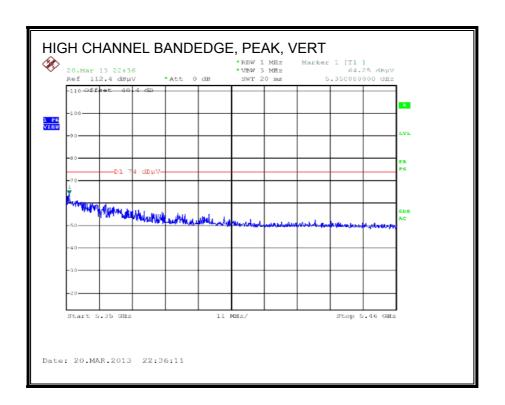


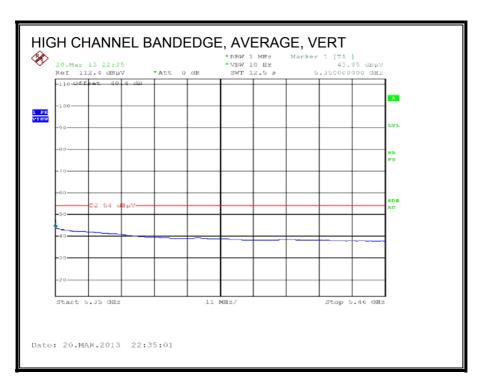
REPORT NO: 13J14910-6 DATE: JULY 09, 2013 FCC ID: EW4DWMW095A IC: 4250A-DWMW095A

AUTHORIZED BANDEDGE (HIGH CHANNEL)



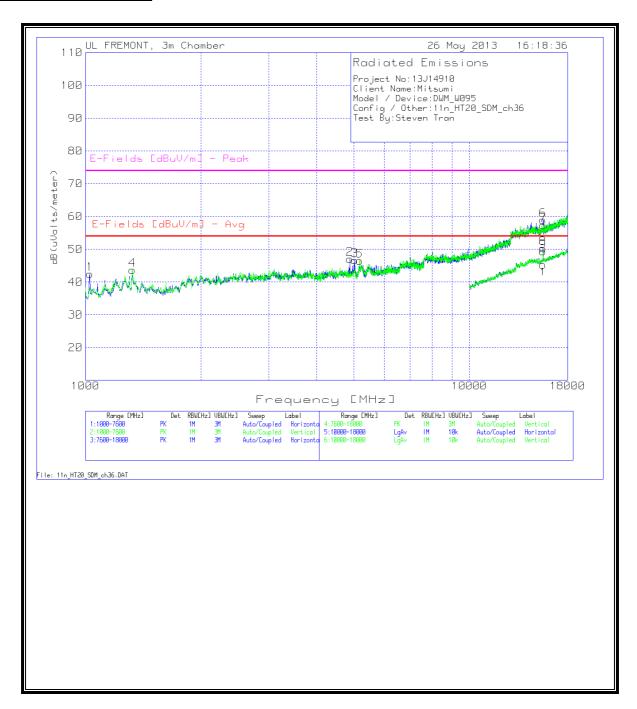






HARMONICS AND SPURIOUS EMISSIONS

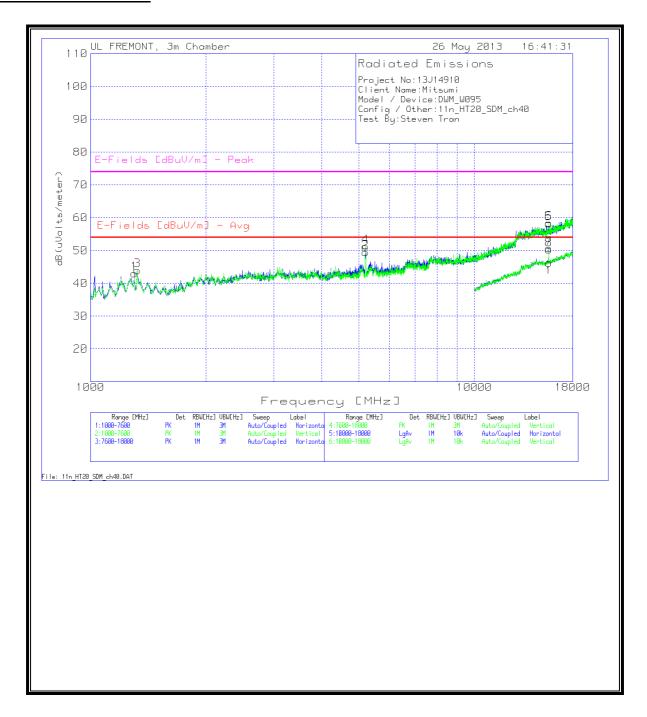
LOW CHANNEL 36 GRAPH



LOW CHANNEL 36 DATA

	00 - 7600MHz Test Frequency	Meter	Detector	T119 Ant		T159 BRF [dB]		E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak	'		ĺ
1	1026.387	49.05	PK	27.2	-33.8	0	42.45	54	-11.55	74	-31.55	100	Horz
2	4878.861	38.11	PK	34	-25.2	0.2	47.11	54	-6.89	74	-26.89	201	Horz
3	5027.286	36.6	PK	34.1	-24.9	0.9	46.7	54	-7.3	74	-27.3	201	Horz
ertical 1000 -	770054139					لــــــــــــــــــــــــــــــــــــــ							
erticai 1000 - Marker No.	Test Frequency	Meter	Detector	T119 Ant	T34	T159 BRF [dB]	dB(uVolts/m	E-Fields	Margin	E-Fields	Margin	Height [cm]	Polarity
MdIne	(MHz)	Reading (dBuV)	Detect.	Factor [dB/m] (dB)	Preamp/Cabl e Loss [dB] (dB)		eter)	[dBuV/m] - Avg	Mar _b	[dBuV/m] - Peak	Irras p.s.	Height [co,	F0,
4	1326.537	46.57	PK	29.9	-32.8	0	43.67	54	-10.33	74	-30.33	201	Vert
*5	5179.01	36.15	PK	34.2	-24.7	0.9	46.55	-		-	-	201	Vert
												-	
orizontal 760 Marker No.	00 - 18000MHz Test Frequency	Meter	Detector	T119 Ant	T34 Dreamp/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak			
6	15531.234	34.59	PK	40.3	-16.5	0.5	58.89	-	-	74	-15.11	99	Horz
ertical 7600 -	1900084117											<u> </u>	
ertical 7600 - Marker No.	- 18000MHz Test Frequency	Meter	Detector	T119 Ant	T34 Preamp/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak			·
7	15541.629	33.07	PK	40.3	-16.5	0.5	57.37	-	-	74	-16.63	201	Vert
*	000 - 18000MHz					ــــــــــــــــــــــــــــــــــــــ							
lorizontal 100 Marker No.	Test Frequency	Meter	Detector	T119 Ant	T34 Dreamp/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
Vidikei iv	(MHz)	Reading (dBuV)	Detecto.	Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak	Peak murg	Height ton.,	Polar,
8	15541.229	26.06	PK	40.3	-16.5	0.5	50.36	-	-	74	-23.64	100	Horz
1 1 1 2 2 2 2													
ertical 10000 Marker No.	0 - 18000MHz Test Frequency	Meter	Detector	T119 Ant	T24 Droamn/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak			
9	15545.227	25.14	PK	40.3	-16.5	0.4	49.34			74	-24.66	201	Vert
*	000 - 18000MHz					ــــــــــــــــــــــــــــــــــــــ						-	
Horizontal 100 Marker No.		Meter	Detector	T119 Ant	T24 Dreamp/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
Widing	(MHz)	Reading (dBuV)		Factor (dB)	Cable Loss (dB)	(dB)	meter)	[dBuV/m] - Avg	Margin	[dBuV/m] - Peak			
	15556.309	16.96	AV	40.3	-16.5	0.5	43.89	54	-10.11		-	100	Horz
8													
	**************************************				T34 Proamp/	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
ertical 10000		Meter	Detector	1 1119 Ant			ublusere.			[dBuV/m] -	Peak mang	neightien	Poru,
8 Vertical 10000 Marker No.	0 - 18000MHz Test Frequency (MHz) 15632.457	Meter Reading (dBuV) 15.44	Detector	T119 Ant Factor (dB)	Cable Loss (dB)	(dB)	meter) 36.54	[dBuV/m] - Avg	Margin	Peak		201	Vert

MID CHANNEL 40 GRAPH

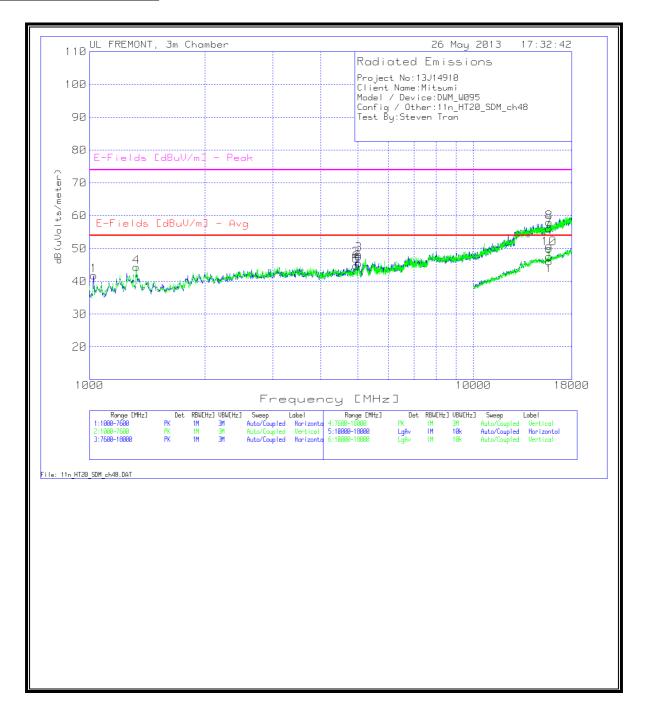


47173 BENICIA STREET, FREMONT, CA 94538, USA This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

MID CHANNEL 40 DATA

	00 - 7600MHz Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	Corrected	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading(d		Factor	Gain [dB]	[dB]	,	Reading	[dBuV/m] - Avg		[dBuV/m] - Peak	(dB)		
		BuV)		[dB/m]				dB(uVolts/						
1	1023.088	48.15	PK	27.5	-36	2.2	0	meter)	53.97	-11.12	74	24.45	100	
2	1023.088	48.15	PK PK	27.5 27.8	-36 -35.9	3.2 3.2	0	42.85 43.13	53.97	-11.12 -10.84	74	-31.15 -30.87	200	Horz
3	4898.651	41.1	PK	34.6	-34.9	7.1	0.2	48.1	53.97	-5.87	74	-25.9	100	Horz
*4	5205.397	40.58	PK	34.8	-34.9	7.4	0.9	48.78	-		-		200	Horz
ertical 1000		Motor	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	Corrected	E-Fields	Augrago	E-Fields	Peak Margin	Height [cm]	Delarit
marker No.	Test Frequency (MHz)	Meter Reading(d BuV)	Detector	Factor [dB/m]	Gain [dB]	[dB]	1159 BKF [GB]	Reading dB(uVolts/met	[dBuV/m] - Avg	Average Margin (dB)	[dBuV/m] - Peak	(dB)	Height [cm]	Polarity
5	1075.862	46.87	PK	27.8	-35.9	3.2	0	er) 41.97	53.97	-12	74	-32.03	200	Vert
*6	5205.397	42.34	PK	34.8	-34.9	7.4	0.9	50.54	-	-12	-	-32.03	200	Vert
	00 - 18000MHz													
Marker No.	Test Frequency (MHz)	Meter Reading(d BuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Corrected Reading dB(uVolts/met er)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
7	10396.202	35.71	PK	38.1	-34.5	10.7	0.2	50.21	-		74	-23.79	200	Horz
8	13868.066	33.73	PK	39.2	-32.1	12.6	0.4	53.83	-	-	74	-20.17	100	Horz
ertical 7600	- 18000MHz								l					
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	Corrected	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading(d BuV)		Factor [dB/m]	Gain [dB]	[dB]		Reading dB(uVolts/met er)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
9	10391.004	37.36	PK	38.1	-34.5	10.7	0.3	51.96	-	-	74	-22.04	200	Vert
10	15598.801	32.27	PK	41.1	-32.9	13.5	0.2	54.17		-	74	-19.83	200	Vert
lorizontal 10	000 - 18000MHz													
	Test Frequency (MHz)	Meter Reading(d BuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Corrected Reading dB(uVolts/met er)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
		5017					0.2	40.68	-	-	68.2	-27.52	100	Horz
11	10399.8	26.18	PK	38.1	-34.5	10.7					68.2	-25.09	200	Horz
	10399.8 13898.051	_	PK PK	38.1 39.2	-34.5 -32.1	10.7 12.6	0.6	43.11	-	-		-25.05		
11 12	13898.051	26.18							-			-23.03		
11 12		26.18				12.6		43.11 Corrected Reading dB(uVolts/met	E-Fields [dBuV/m] - Avg	Average	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
11 12 ertical 10000	13898.051 0 - 18000MHz Test Frequency	26.18 22.81 Meter Reading(d	PK	39.2 T345 Ant Factor	-32.1 T145 Preamp	12.6 Cable Factor	0.6	43.11 Corrected Reading	E-Fields [dBuV/m] - Avg	Average	E-Fields	Peak Margin		Polarity Vert Vert
11		26.18							-	-		-25.05		

HIGH CHANNEL 48 GRAPH

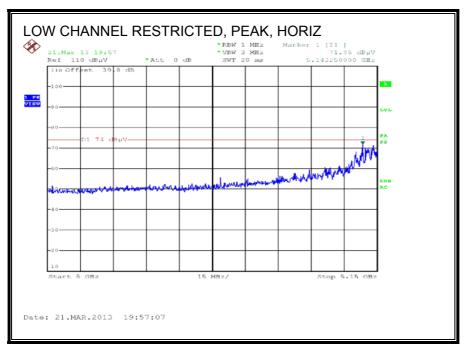


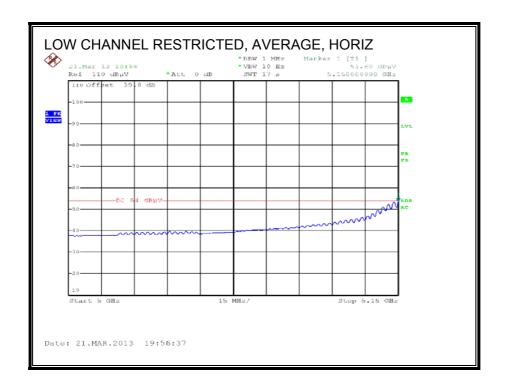
HIGH CHANNEL 48 DATA

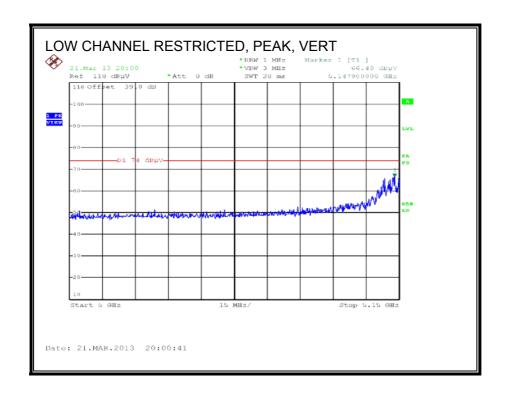
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Reading dB(uVolts/m	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	1026.387	48.34	PK	27.5	-36	3.2	0	eter) 43.04	53.97	-10.93	74	-30.96	100	Horz
2	1075.862	48.4	PK	27.8	-35.9	3.2	0	43.5	53.97	-10.47	74	-30.5	100	Horz
3	5271.364	37.28	PK	34.9	-34.9	7.4	0.9	45.58	-	-	68.2	-22.62	200	Horz
ertical 1000 -	7600MHz													
Marker No.	Test Frequency (MHz)	Meter Reading(dBu V)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 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
4	1075.862	47.45	PK	27.8	-35.9	3.2	0	42.55	53.97	-11.42	74	-31.45	200	Vert
6	2025.787 5268.066	43.38 37.2	PK PK	31.8 34.9	-35 -34.9	7.4	0.9	44.38 45.5	53.97	-9.59	74 68.2	-29.62 -22.7	100 100	Vert Vert
		37.2	FIN	34.5	-54.5	7.04	0.5	45.5			00.2	-22.7	100	veit
lorizontal 760 Marker No.	Test Frequency (MHz)	Meter Reading(dBu V)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	[dB]	T192 HPF [dB]	Reading dB(uVolts/m eter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
7	13748.526	34.13	PK PK	39.1	-32.1	12.5	0.6	54.23	-	-	68.2	-13.97	100	Horz
8	17864.868	32.1	PK	42.2	-31.3	14.8	0.4	58.2		-	74	-15.8	200	Horz
ertical 7600 -														
Marker No.	Test Frequency (MHz)	Meter Reading(dBu V)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	[dB]	0.3	Corrected Reading dB(uVolts/m eter) 51.55	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	-22.45	Height [cm]	Polarity
orizontal 100 Marker No.	Test Frequency (MHz)	Meter Reading(dBu V)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 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	13734.133	22.4	PK	39.1	-32.1	12.5	0.7	42.6	-		68.2	-25.6	100	Horz
11	17740.13	21.47	PK	42.2	-31.4	14.7	0.2	47.17	53.97	-6.8	74	-26.83	200	Horz
ertical 10000	18000MHz													
Marker No.	Test Frequency (MHz)	Meter Reading(dBu V)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 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
12	11863.068	23.84	PK	39.1	-33.4	11.5	0.2	41.24	53.97	-12.73	74	-32.76	100	Vert
K - Peak dete IP - Quasi-Pea IV - Average d	tor k detector													

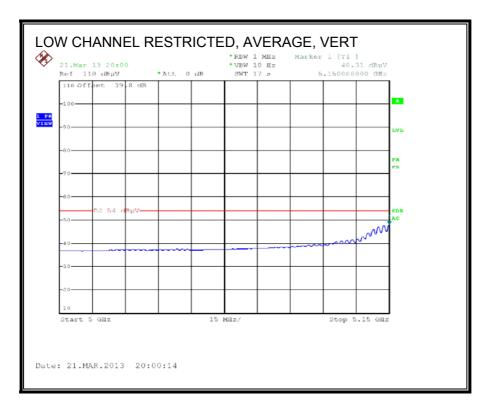
9.5. 802.11n HT40 CDD MCS0 2TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

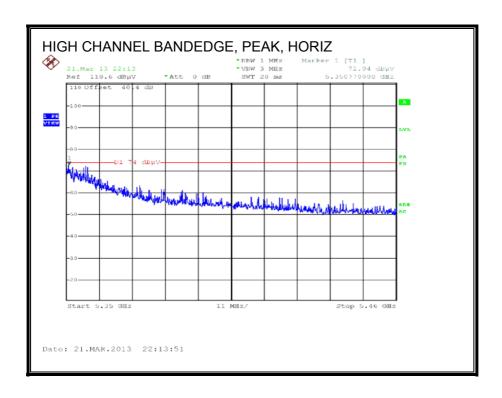


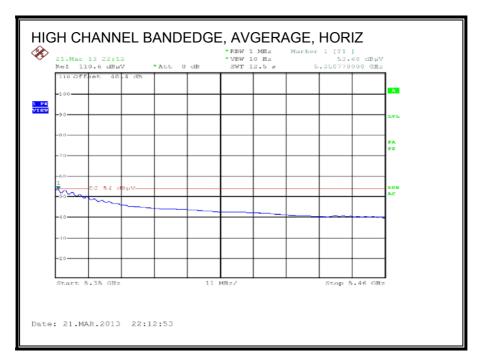


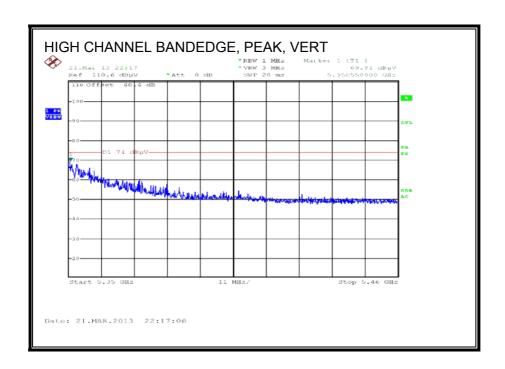


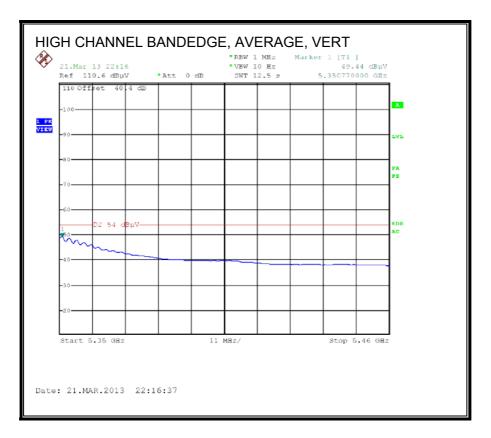


AUTHORIZED BANDEDGE (HIGH CHANNEL)



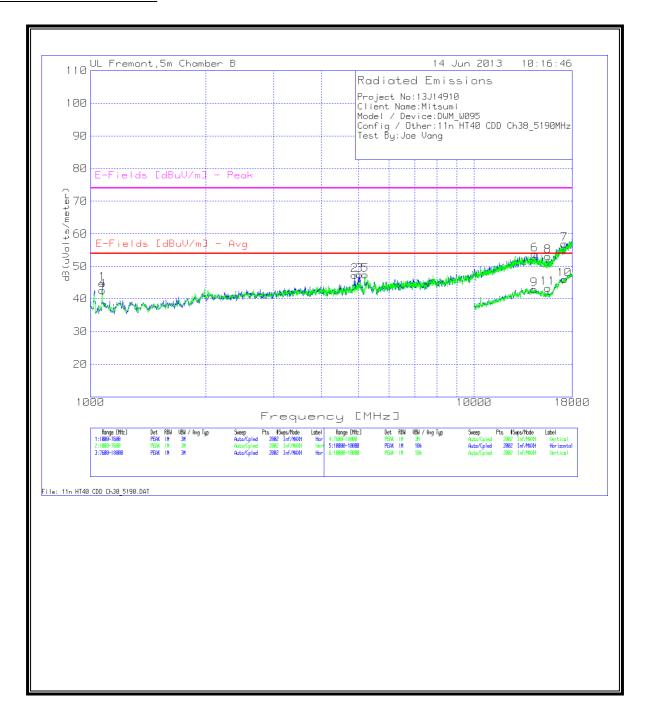






HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL 38 GRAPH



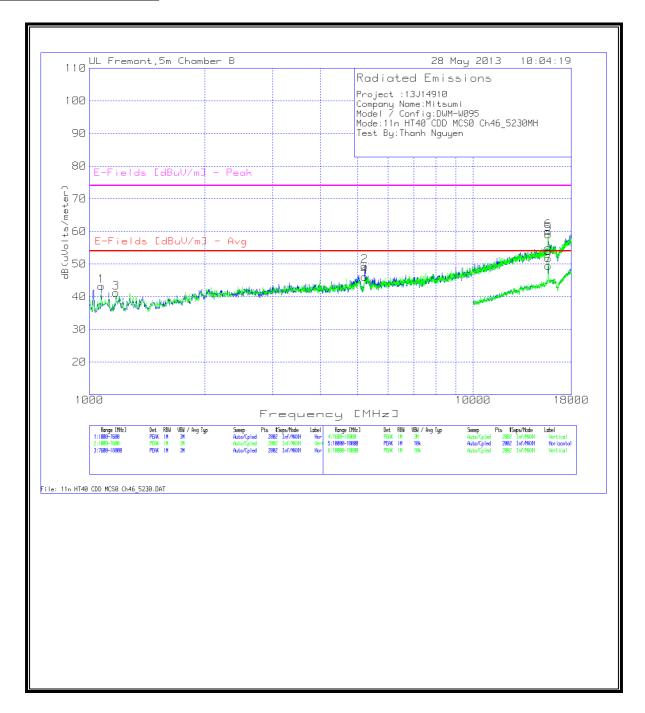
LOW CHANNEL 38 DATA

1		Meter Reading	Detector	T345 Ant Factor	T145 Preamp Gain [dB]		T159 BRF [dB]		E-Fields [dBuV/m] -	Average	E-Fields [dBuV/m] -	Peak Margin	Height [cm]	Polarity
_	Frequency (MHz)	(dBuV)		[dB/m]	Gain [dB]	[dB]		Reading dB(uVolts/m eter)	Avg	Margin (dB)	Peak	(dB)		
	1075.862	49.61	PK	27.8	-35.9	3.2	0	44.71	53.97	-9.26	74	-29.29	100	Horz
2	4875.562	40.31	PK	34.6	-34.9	7.1	0.2	47.31	53.97	-6.66	74	-26.69	200	Horz
3	5020.69	39.68	PK	34.6	-34.9	7.2	0.9	47.48	53.97	-6.49	74	-26.52	200	Horz
ertical 1000 -	7600MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	Corrected Reading	E-Fields [dBuV/m] -	Average Margin (dB)	E-Fields [dBuV/m] -	Peak Margin (dB)	Height [cm]	Polarity
	(MHz)	(dBuV)		[dB/m]	,	,		dB(uVolts/m eter)	Avg		Peak	(,		
4	1075.862	47.42	PK	27.8	-35.9	3.2	0	42.52	53.97	-11.45	74	-31.48	200	Vert
5	5202.099	39.28	PK	34.8	-34.9	7.4	0.9	47.48	-	-	68.2	-20.72	200	Vert
orizontal 760	0 - 18000MP+													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	Corrected	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency (MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		Reading dB(uVolts/m	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		,
6	14367.016	33.45	PK	39.6	-32.4	12.8	0.3	eter) 53.75			74	-20.25	100	Horz
7	17178.811	32.36	PK	41.6	-31.7	14.4	0.3	56.96	-	-	74	-17.04	100	Horz
ertical 7600 -														
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	Corrected Reading	E-Fields [dBuV/m] -	Average Margin (dB)	E-Fields [dBuV/m] -	Peak Margin (dB)	Height [cm]	Polarity
	(MHz)	(dBuV)		[dB/m]	Guin (ub)	(db)		dB(uVolts/m eter)	Avg	margin (db)	Peak	(us)		
8	15578.011	31.24	PK	41	-32.9	13.5	0.3	53.14	-	-	74	-20.86	200	Vert
lorizontal 100	00 - 18000MHz													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	Corrected	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency (MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		Reading dB(uVolts/m eter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
9	14333.833	22.6	PK	39.6	-32.4	12.8	0.3	42.9	-	-	68.2	-25.3	100	Horz
10	17196.402	21.21	PK	41.6	-31.7	14.4	0.4	45.91	-	-	68.2	-22.29	200	Horz
	190008444													
fortical 10000	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	Corrected	E-Fields	Margin (dB)	E-Fields	Margin (dB)	Height [cm]	Polarity
ertical 10000 Marker No.		Reading(dBu		Factor [dB/m]	Gain [dB]	[dB]		Reading dB(uVolts/m eter)	[dBuV/m] - Avg		[dBuV/m] - Peak			,
	Frequency (MHz)	V)						- ceci,				_		
/ertical 10000 Marker No.			PK	41	-32.9	13.5	0.3	43.21	53.97	-10.76	74	-30.79	200	Vert

47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HIGH CHANNEL 46 GRAPH

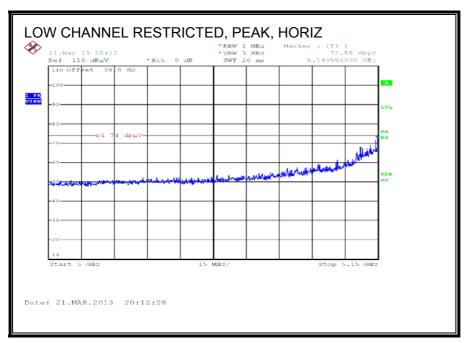


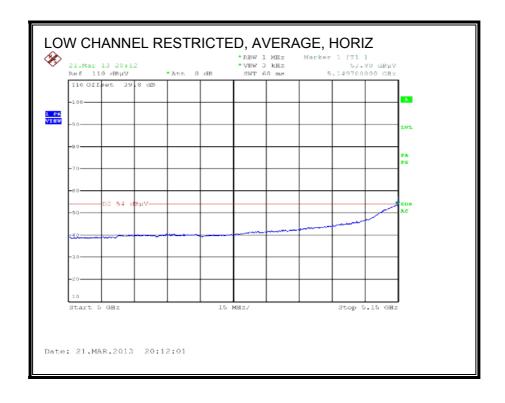
HIGH CHANNEL 46 DATA

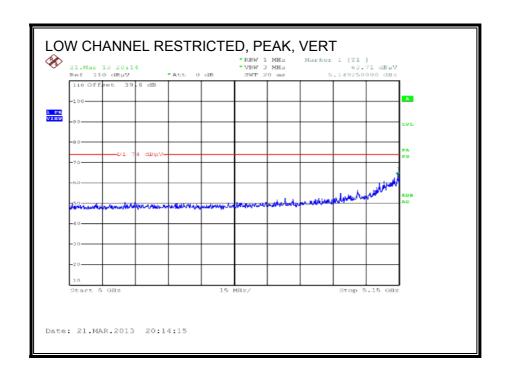
Marker No.														- 1 1
	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	[dB]	T159 BRF [dB]	Corrected Reading dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
1	1075.862	48.15	PK	27.8	-35.9	3.2	0	43.25	53.97	-10.72	74	-30.75	100	Horz
2	5215.292	41.05	PK	34.9	-34.9	7.4	0.9	49.35	6	127	68.2	-18.85	200	Horz
ertical 1000 -	7600MHz			1.7										
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [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	1174.813	45.42	PK	28.2	-35.7	3.3	0	41.22	53.97	-12.75	74	-32.78	200	Vert
4	5218.591	37.74	PK	34.9	-34.9	7.4	0.9	46.04		1.0	68.2	-22.16	200	Vert
orizontal 760	00 - 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]	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	15676.762	36.79	PK	41.2	-32.9	13.6	0.4	59.09	-	-	74	-14.91	100	Horz
ertical 7600 -	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]	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	15687.156	37.79	PK	41.2	-32.9	13.6	0.4	60.09	-	-	74	-13.91	200	Vert
orizontal 100	000 - 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]	Corrected Reading dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
				41.2	-32.9	13.6	0.4	49.47	53.97	-4.5	74	-24.53	100	Horz
7	15685.157	27.17	PK	7416										
		27.17	PK	TAIL										
7 Vertical 10000 Marker No.		27.17 Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [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

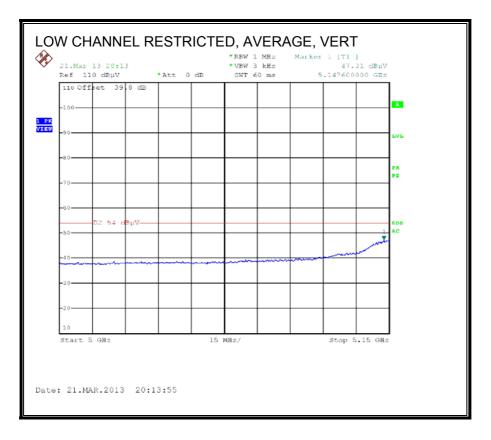
9.6. 802.11n HT40 SDM MCS8 2TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

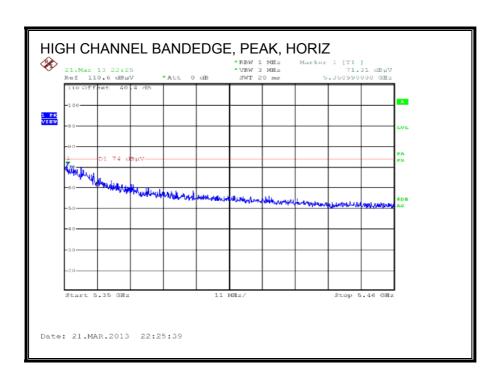


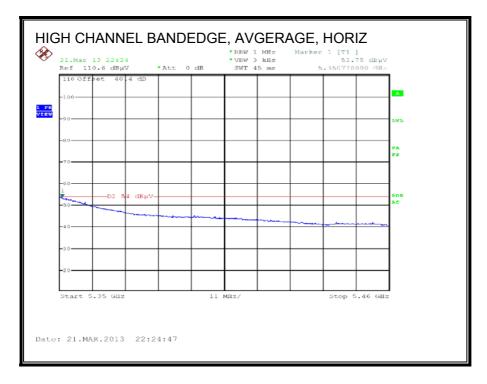


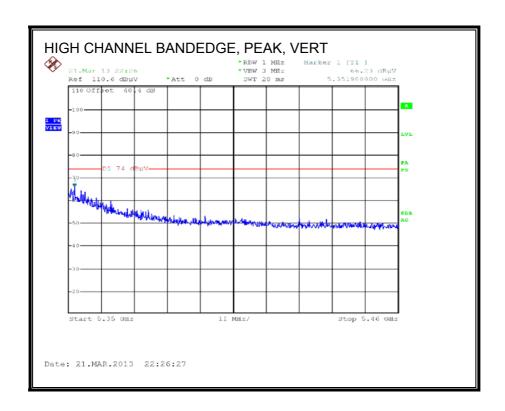


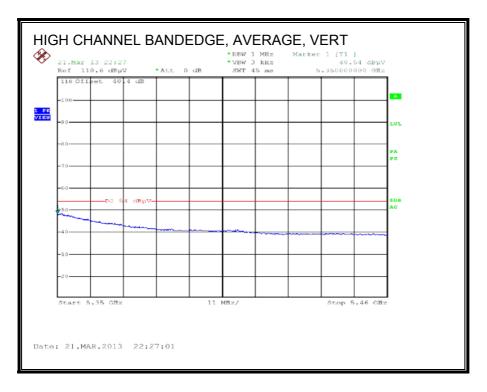


AUTHORIZED BANDEDGE (HIGH CHANNEL)



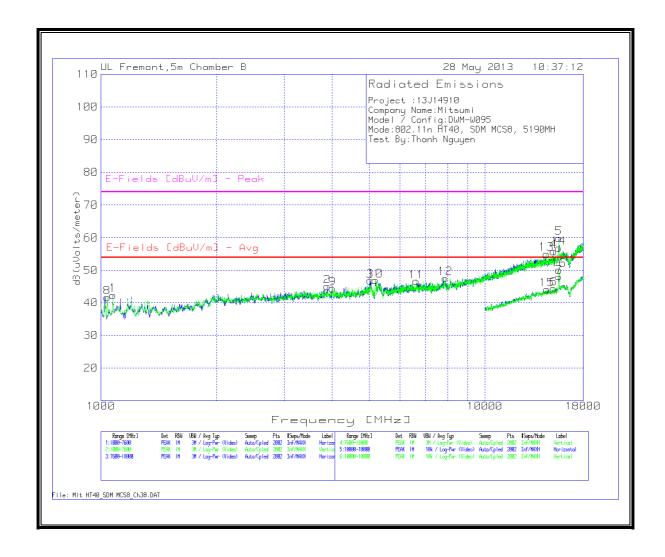






HARMONICS AND SPURIOUS EMISSIONS

Low Channel

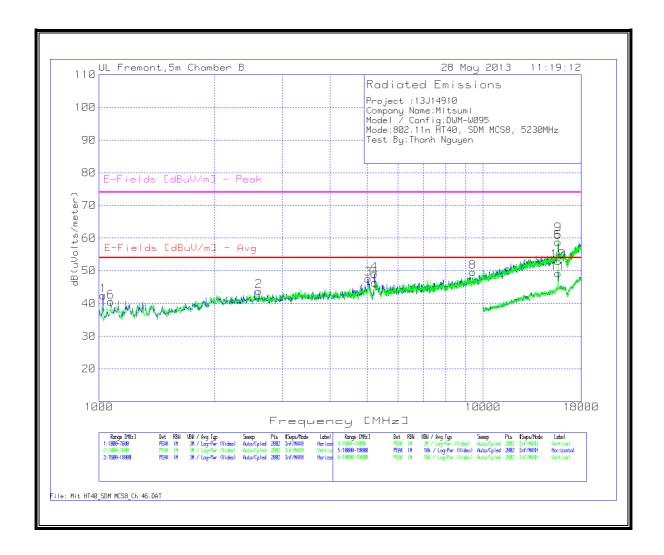


LOW CHANNEL 38 DATA

roject :13J149 company Nam														
	g:DWM-W095													
	HT40, SDM MCS	e rannau												
		6, 5190IVIN												
est By:Thanh	Nguyen													
lorizontal 100														
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/me	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency	Reading		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] -	Margin (dB)	[dBuV/m] -	(dB)		
	(MHz)	(dBuV)							Avg		Peak			
1	1075.862	47.27	PK	27.8	-35.9	3.2	0	42.37	53.97	-11.6	74	-31.63	100	Horz
2	3889.355	39.76	PK	33.9	-34.9	6.1	0.1	44.96	53.97	-9.01	74	-29.04	200	Horz
3	5030.585	39.03	PK	34.6	-34.9	7.2	0.9	46.83	53.97	-7.14	74	-27.17	200	Horz
ertical 1000 -	7600MHz													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/me	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency	Reading		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] -	Margin (dB)	[dBuV/m] -	(dB)		
	(MHz)	(dBuV)							Avg		Peak			
8	1039.58	46.67	PK	27.6	-35.9	3.2	0	41.57	53.97	-12.4	74	-32.43	200	Vert
9	4011.394	38.95	PK	33.9	-34.8	6.2	0.1	44.35	53.97	-9.62	74	-29.65	100	Vert
*10	5185.607	38.75	PK	34.8	-34.9	7.4	0.9	46.95	-	-	-	-	200	Vert
11	6620.39	37.18	PK	35.9	-35	8.4	0.1	46.58	-	-	68.2	-21.62	100	Vert
orizontal 760	0 - 18000MHz													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/me	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency	Reading		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] -	Margin (dB)	[dBuV/m] -	(dB)		
	(MHz)	(dBuV)							Avg		Peak			
4	15089.455	34.79	PK	40.1	-32.9	13.2	0.6	55.79	-	-	68.2	-12.41	100	Horz
5	15583.208	38.13	PK	41	-32.9	13.5	0.2	59.93	-	-	74	-14.07	100	Horz
ertical 7600 -	18000MHz													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/me	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency	Reading		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] -	Margin (dB)	[dBuV/m] -	(dB)		
	(MHz)	(dBuV)							Avg		Peak	' '		
12	7880.66	36.94	PK	36.1	-35.1	9.2	0.5	47.64	-	-	68.2	-20.56	100	Vert
13	14465.767	34.58	PK	39.7	-32.5	12.9	0.4	55.08	-		68.2	-13.12	100	Vert
14	15546.827	34.77	PK	41	-32.9	13.5	0.5	56.87	-	-	74	-17.13	200	Vert
orizontal 100	00 - 18000MHz								E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
orizontal 100		Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	I 1192 HPF IdBI	dB(uVolts/me						
	Test		Detector		T145 Preamp Gain [dB]	Cable Factor [dB]	1192 HPF [dB]	dB(uVolts/me ter)			[dBuV/m] -	(dB)		
	Test Frequency	Reading	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	1192 HPF (dB)	dB(uVolts/me ter)	[dBuV/m] -	Margin (dB)	[dBuV/m] - Peak	(dB)		
Marker No.	Test Frequency (MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		ter)			Peak		200	Horz
Marker No.	Test Frequency (MHz) 15077.461	Reading (dBuV) 23.24	PK	Factor [dB/m] 40.1	Gain [dB]	[dB]	0.7	ter)	[dBuV/m] - Avg -	Margin (dB)	Peak 68.2	-23.86	200	Horz
Marker No.	Test Frequency (MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] -		Peak		200 100	Horz Horz
Marker No. 6 7	Test Frequency (MHz) 15077.461 15573.213	Reading (dBuV) 23.24	PK	Factor [dB/m] 40.1	Gain [dB]	[dB]	0.7	ter)	[dBuV/m] - Avg -	Margin (dB)	Peak 68.2	-23.86		
6 7 ertical 10000	Test Frequency (MHz) 15077.461 15573.213	Reading (dBuV) 23.24 26.16	PK PK	Factor [dB/m] 40.1 41	-32.9 -32.9	[dB] 13.2 13.5	0.7	ter) 44.34 48.06	[dBuV/m] - Avg - 53.97	Margin (dB)	Peak 68.2 74	-23.86 -25.94	100	Horz
Marker No. 6 7	Test Frequency (MHz) 15077.461 15573.213 -18000MHz Test	Reading (dBuV) 23.24 26.16	PK	40.1 41 T345 Ant	Gain [dB] -32.9 -32.9 T145 Preamp	[dB] 13.2 13.5 Cable Factor	0.7	44.34 48.06 dB(uVolts/me	[dBuV/m] - Avg - 53.97	Margin (dB)5.91 Average	Peak 68.2 74 E-Fields	-23.86 -25.94 Peak Margin		Horz
6 7 ertical 10000	Test Frequency (MHz) 15077.461 15573.213 -18000MHz Test Frequency	Reading (dBuV) 23.24 26.16 Meter Reading	PK PK	Factor [dB/m] 40.1 41	-32.9 -32.9	[dB] 13.2 13.5	0.7	ter) 44.34 48.06	[dBuV/m] - Avg - 53.97 E-Fields [dBuV/m] -	Margin (dB)	Peak 68.2 74 E-Fields [dBuV/m] -	-23.86 -25.94	100	Horz
6 7 ertical 10000 Marker No.	Test Frequency (MHz) 15077.461 15573.213 - 18000MHz Test Frequency (MHz)	Reading (dBuV) 23.24 26.16 Meter Reading (dBuV)	PK PK Detector	40.1 41 T345 Ant Factor [dB/m]	-32.9 -32.9 -32.9 T145 Preamp Gain [dB]	[dB] 13.2 13.5 Cable Factor [dB]	0.7 0.3 T192 HPF [dB]	44.34 48.06 dB(uVolts/me ter)	[dBuV/m] - Avg - 53.97 E-Fields [dBuV/m] - Avg	-5.91 Average Margin (dB)	Peak 68.2 74 E-Fields [dBuV/m] - Peak	-23.86 -25.94 Peak Margin (dB)	100 Height [cm]	Polarity
6 7 ertical 10000	Test Frequency (MHz) 15077.461 15573.213 -18000MHz Test Frequency	Reading (dBuV) 23.24 26.16 Meter Reading	PK PK	40.1 41 T345 Ant	Gain [dB] -32.9 -32.9 T145 Preamp	[dB] 13.2 13.5 Cable Factor	0.7	44.34 48.06 dB(uVolts/me	[dBuV/m] - Avg - 53.97 E-Fields [dBuV/m] -	Margin (dB)5.91 Average	Peak 68.2 74 E-Fields [dBuV/m] -	-23.86 -25.94 Peak Margin	100	

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

High Channel

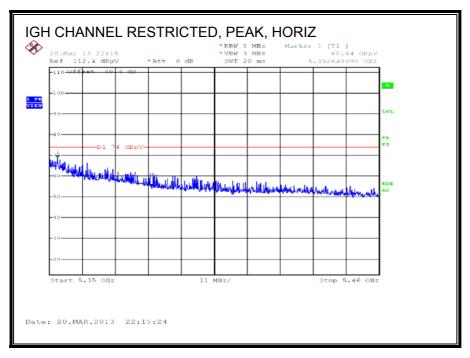


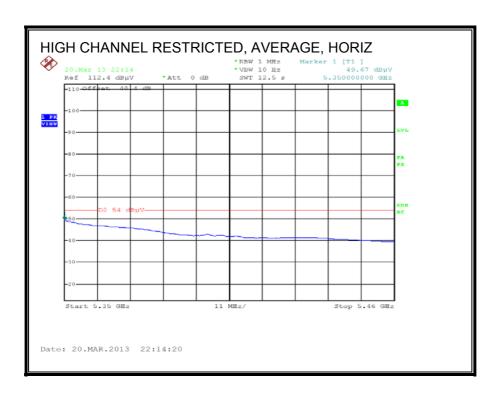
HIGH CHANNEL 46 DATA

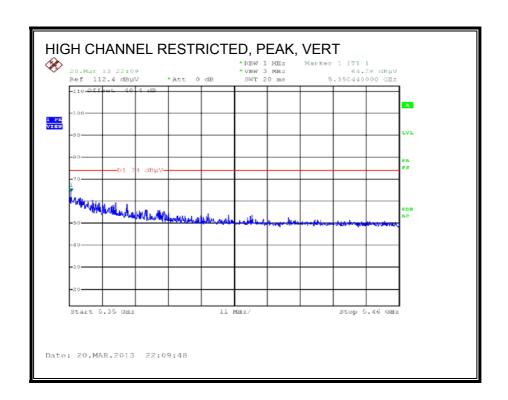
Horizontal 100	00 - 7600MHz													
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/met	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading		Factor	Gain [dB]	[dB]		er)	[dBuV/m] - Avg		[dBuV/m] - Peak	(dB)		
		(dBuV)		[dB/m]										
1	1026.387	47.78	PK	27.5	-36	3.2	0	42.48	53.97	-11.49	74	-31.52	100	Horz
2	2609.595	41.43	PK	32.6	-35.1	4.8	0.1	43.83	53.97	-10.14	74	-30.17	100	Horz
3 4	5020.69 5215.292	39.75 40.73	PK PK	34.6 34.9	-34.9 -34.9	7.2	0.9	47.55 49.03	53.97	-6.42	74 68.2	-26.45 -19.17	100 200	Horz
*	3213.232	40.73	PK	34.5	*34.7	7.4	0.5	45.03	-		00.2	-15.17	200	HOIZ
ertical 1000 -	- 7600MHz													
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/met		Average	E-Fields	Peak Margin	Height [cm]	Polarit
	(MHz)	Reading		Factor	Gain [dB]	[dB]		er)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
		(dBuV)		[dB/m]								****		
6 *7	1075.862 5225.187	45.45 38.13	PK PK	27.8 34.9	-35.9 -34.9	3.2 7.4	0.9	40.55 46.43	53.97	-13.42	74	-33.45	200	Vert Vert
,	3223.107	30.13	FN	34.3	-34.3	7.4	0.5	40.43	-		-	-	200	vert
orizontal 760	00 - 18000MHz													
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/met		Average	E-Fields	Peak Margin	Height [cm]	Polarit
	(MHz)	Reading		Factor	Gain [dB]	[dB]		er)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
		(dBuV)		[dB/m]										
5	15687.156	36.48	PK	41.2	-32.9	13.6	0.4	58.78	-	-	74	-15.22	100	Horz
ertical 7600 -	. 18000MHz							l			l			
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/met	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading		Factor	Gain [dB]	[dB]		er)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
		(dBuV)		[dB/m]										
8	9398.301	37.46	PK	37.1	-35.1	10.1	0.1	49.66	53.97	-4.31	74	-24.34	200	Vert
9	15687.156	38.84	PK	41.2	-32.9	13.6	0.4	61.14	-	-	74	-12.86	200	Vert
Iorizontal 100	000 - 18000MHz					l		l			l .			
Marker No.	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/met	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarit
	(MHz)	Reading		Factor	Gain [dB]	[dB]		er)	[dBuV/m] - Avg		[dBuV/m] - Peak	(dB)		
		(dBuV)		[dB/m]										
11	15685.157	26.89	PK	41.2	-32.9	13.6	0.4	49.19	53.97	-4.78	74	-24.81	100	Horz
	400008411-													
fortical 10000		Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dR]	dB(uVolts/met	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarit
	Test Frequency		Jetettol	Factor	Gain [dB]	[dB]	Lasz III. (db)	er)	[dBuV/m] - Avg		[dBuV/m] - Peak	(dB)	aigine [call]	- Olulle
	Test Frequency (MHz)	Reading						,		. , ,	, ,	, ,		
	Test Frequency (MHz)	Reading (dBuV)		[dB/m]					53.97	-0.94	74	-20.97	200	
			PK	[dB/m] 41.2	-32.9	13.6	0.4	53.03		015-7	/4			Vert
	(MHz) 15681.159	(dBuV)	PK		-32.9	13.6	0.4	53.03		0.54	,-			Vert
Marker No. 10 /ertical 7600 -	(MHz) 15681.159 18000MHz	(dBuV) 30.73		41.2								Dook March	Height for 3	
Marker No. 10 Tertical 7600 -	(MHz) 15681.159 18000MHz Test Frequency	(dBuV) 30.73 Meter	PK Detector	41.2 T345 Ant	T145 Preamp	Cable Factor		dB(uVolts/met	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	
Marker No.	(MHz) 15681.159 18000MHz	(dBuV) 30.73		41.2								Peak Margin (dB)	Height [cm]	Polarity

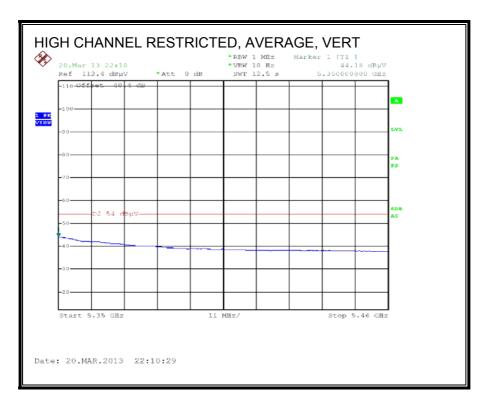
9.7. 802.11a CDD 2TX MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)



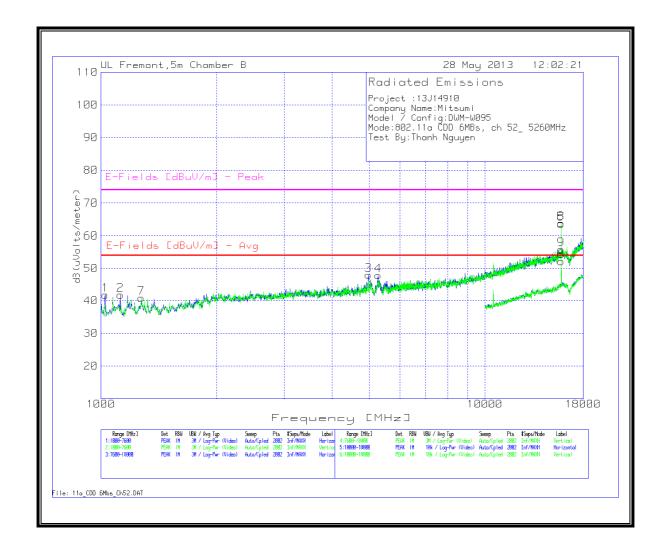






HARMONICS AND SPURIOUS EMISSIONS

Low Channel



LOW CHANNEL 52 DATA

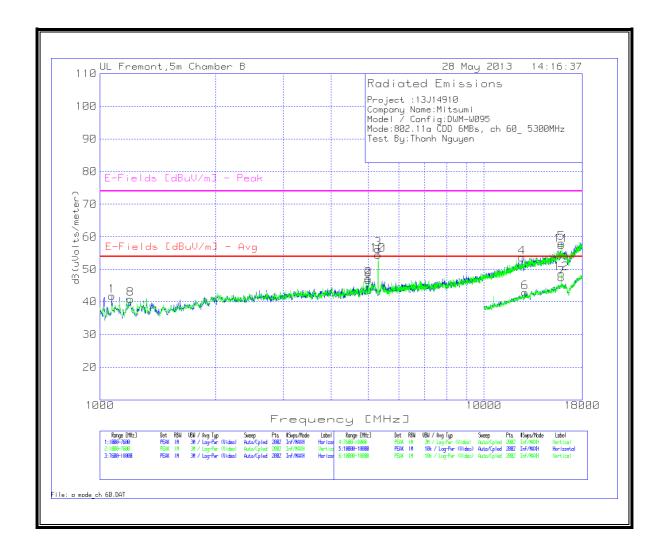
Project :13 Company	.3J14910 / Name:Mitsu	umi												
	Config:DWM													
Mode:802	2.11a CDD 6N	MBs, ch 52_	_5260MHz											
	hanh Nguyer													
	7600													
	al 1000 - 7600		D-toctor	TO SE Ant	T145	Cable	T159 BRF	intervalete	- Floids	Margin	- Fields	Storgin		Polorit
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m]	Margin (dB)	E-Fields [dBuV/m]	Margin (dB)	Height [cm]	Polarity
140.	(MHz)	(dBuV)	1 /	[dB/m]	Gain [dB]	[dB]	[uo]	/metc.,	- Avg	(us,	- Peak	(ub)	Įu	
		1	1!			1	l!	1!		1		i!	1	
1	1026.387	47.05	PK	27.5	-36	3.2	0	41.75	53.97	-12.22	74	-32.25	100	Horz
2	1125.337	46.28	PK	28	-35.8	3.3	0	41.78	53.97	-12.19	74	-32.22	100	Horz
3 *4	4967.916 5264.768	40.64 39.54	PK PK	34.6	-34.9	7.2	0.4	47.94 47.84	53.97	-6.03	74	-26.06	100	Horz
-4	5264.768	39.54	PK	34.9	-34.9	7.4	0.9	47.84		-	-	-	100	Horz
/ertical 1	1000 - 7600MI	Hz												
Marker	Test	Meter	Detector	T345 Ant	T145	Cable	T159 BRF	dB(uVolts	E-Fields	Margin	E-Fields	Margin	Height	Polarity
No.	Frequency	Reading	1	Factor	Preamp	Factor	[dB]		[dBuV/m]	(dB)	[dBuV/m]	(dB)	[cm]	
	(MHz)	(dBuV)	'	[dB/m]	Gain [dB]	[dB]	'	1 '	- Avg	1	- Peak	1		
7	1273.763	44.4	PK	28.6	-35.6	3.4	0	40.8	-	-	68.2	-27.4	200	Vert
	al 7600 - 1800		n-tostor.	TO SE Ant	T4.4E	Cable	T402 UDE	in/w/olte	- Fields	Margin	- stalde	Storain		Palarit
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m]	Margin (dB)	E-Fields [dBuV/m]	Margin (dB)	Height [cm]	Polarity
No.	(MHz)	(dBuV)	1 /	[dB/m]	Gain [dB]	[dB]	[GD]	/metc.,	- Avg	(65)	- Peak	(ub)	[City	
	,,		1!	[66,	Ga		l'	1!		l'		i'	1'	
5	15775.512	41.47	PK	41.3	-32.9	13.6	0.2	63.67	-	-	74	-10.33	100	Horz
'ertical 7	7600 - 18000N	4117						$\overline{}$				$\overline{}$		
Marker	Test	Meter	Detector	T345 Ant	T145	Cable	T192 HPF	dB(uVolts	E-Fields	Margin	E-Fields	Margin	Height	Polarity
No.	Frequency			Factor	Preamp	Factor	[dB]		[dBuV/m]	(dB)	[dBuV/m]	(dB)	[cm]	
1	(MHz)	(dBuV)	1	[dB/m]	Gain [dB]	[dB]		1	- Avg	1	- Peak	'		
8	15780.71	41.67	PK	41.3	-32.9	13.6	0.2	63.87	-	-	74	-10.13	200	Vert
	al 10000 - 180		D-toster	T345 Ant	T145	Cable	T192 HPF	int-Malte	E-Fields	**argin	5 Sields	**-rain	11-iaht	Polorit
Marker No.	Test Frequency	Meter Reading	Detector	Factor	T145 Preamp	Cable Factor	[dB]	dB(uVolts /meter)	[dBuV/m]	Margin (dB)	E-Fields [dBuV/m]	Margin (dB)	Height [cm]	Polarity
No.	(MHz)	(dBuV)		[dB/m]	Gain [dB]	[dB]	[uc,	/metc.,	- Avg	(66)	- Peak	(GD,	įcii.,	
6	15785.107	30.05	PK	41.3	-32.9	13.6	0.2	52.25	53.97	-1.72	74	-21.75	100	Horz
	40004	'												
Vertical 10 Marker	18000 - 18000 Test	Meter	Detector	T345 Ant	T145	Cable	T192 HPF	dB(uVolts	E-Fields	Margin	E-Fields	Margin	Height	Polarit
No.	Frequency		Detecto.	Factor	Preamp	Factor	[dB]		[dBuV/m]	(dB)	[dBuV/m]	(dB)	[cm]	Foldita
	(MHz)	(dBuV)	1 '	[dB/m]	Gain [dB]	[dB]	.=	1	- Avg	1	- Peak	1		
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	\perp	<u> </u>	<u> </u> '	'	<u> </u>	<u> </u>		<u></u> '	<u> </u>	ــــــ
9	15781.109	33.69	PK	41.3	-32.9	13.6	0.2	55.89	53.97	1.92	74	-18.11	200	Vert
Horizonta	al 10000 - 180	000MHz												
Marker	Test	Meter	Detector		1 1	Cable		dB(uVolts		Margin	E-Fields	Margin	Height	Polarit
No.	Frequency		1 '	Factor	Preamp	Factor	[dB]	/meter)	[dBuV/m]	(dB)	[dBuV/m]	(dB)	[cm]	
	(MHz)	(dBuV)	1 '	[dB/m]	Gain [dB]	[dB]	'	1 '	- Avg	1	- Peak	i '	1	
6	15781.1	27.42	Av	41.3	-32.9	13.6	0.2	49.62	53.97	-4.35	-	-	156	Horz
Vartical 1	18000 - 18000	BALL?	لـــــــــا	<u> </u>			لــــــــــــــــــــــــــــــــــــــ		لـــــــــا	<u> </u>			<u> </u>	
Marker	Test	Meter	Detector	T345 Ant	T145	Cable	T192 HPF	dB(uVolts	E-Fields	Margin	E-Fields	Margin	Height	Polarit
No.	Frequency			Factor	Preamp	Factor	[dB]		[dBuV/m]	(dB)	[dBuV/m]	(dB)	[cm]	
	(MHz)	(dBuV)	1 '	[dB/m]	Gain [dB]	[dB]		1	- Avg		- Peak	,		
9	15780.82	27.91	Av	41.3	-32.9	13.6	0.2	50.11	53.97	-3.86	-	-	127	Vert
	+					$\overline{}$	-				 ,			

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

Page 298 of 429

REPORT NO: 13J14910-6 DATE: JULY 09, 2013 FCC ID: EW4DWMW095A IC: 4250A-DWMW095A

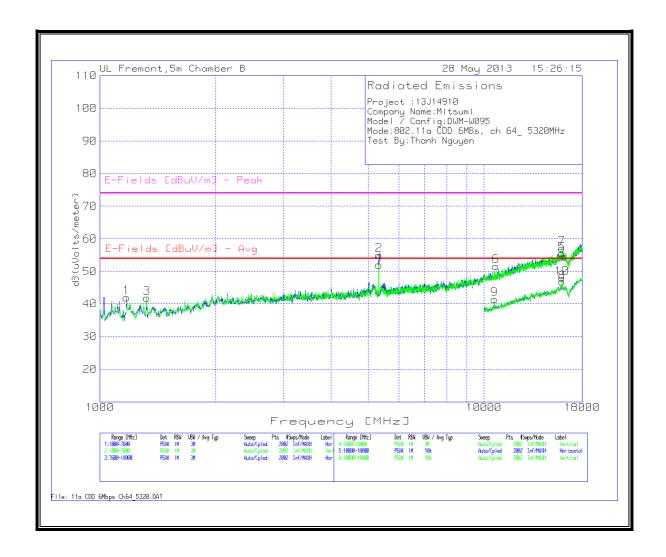
Mid Channel



MID CHANNEL 60 DATA

Marker No.	Test Frequency (MHz)	Meter Reading	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
		Reading					rass one tool						gj	
				Factor [dB/m]	Gain [dB]	[dB]		meter)	[dBuV/m] -	Margin (dB)	[dBuV/m] -	(dB)		
	1075.862	(dBuV) 46.62	PK	27.8	-35.9	3.2	0	41.72	Avg 53.97	-12.25	Peak 74	-32.28	100	Horz
	5000.9	39.59	PK	34.6	-34.9	7.2	0.7	47.19	53.97	-6.78	74	-26.81	100	Horz
*3	5297.751	47.96	PK	34.9	-34.9	7.4	0.9	56.26					200	Horz
ertical 1000 -										-				
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	1159 BKF [dB]	dB(uVolts/me ter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
8	1201.199	44.77	PK	28.4	-35.7	3.4	0	40.87	53.97	-13.1	74	-33.13	200	Vert
9	4997.601	39.11	PK	34.6	-34.9	7.2	0.6	46.61	53.97	-7.36	74	-27.39	200	Vert
*10	5301.049	46.19	PK	34.9	-34.9	7.4	0.9	54.49		-	-		200	Vert
orizontal 7600	0 - 19000MUz													
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/me ter)	E-Fields [dBuV/m] -	Average Margin (dB)	E-Fields [dBuV/m] -	Peak Margin (dB)	Height [cm]	Polarity
	40547.005	25.02	- Bu	20.0	22.5	***		50.70	Avg		Peak	20.07	200	
5	12547.926 15889.855	35.03 35.49	PK PK	39.2 41.5	-32.5 -32.9	11.8	0.2	53.73 58.09	-		74 74	-20.27 -15.91	200 100	Horz
	15005.055	33.43		42.5	52.5	13.7	0.5	30.03			- /-	15.51	200	HOLE
ertical 7600 - :	18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/me ter)	E-Fields [dBuV/m] -	Average Margin (dB)	E-Fields [dBuV/m] -	Peak Margin (dB)	Height [cm]	Polarity
	rrequency	Reading		ractor [ub/iii]	Gain [ub]	[ub]		tery	Avg	margin (ub)	Peak	(ub)		
11	15900.25	34.91	PK	41.5	-32.9	13.7	0.2	57.41			74	-16.59	200	Vert
	00 - 18000MHz													
Marker No.	Test	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts/me	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	Frequency	Reading		Factor [dB/m]	Gain [dB]	[dB]		ter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
6	12802.599	23.22	PK	39.2	-32.1	12	0.5	42.82	-	-	68.2	-25.38	100	Horz
7	15901.049	24.89	PK	41.5	-32.9	13.7	0.2	47.39	53.97	-6.58	74	-26.61	100	Horz
ertical 10000 -	- 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T192 HPF [dB]	dB(uVolts/me ter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
12	15897.051	26.27	PK	41.5	-32.9	13.7	0.2	48.77	53.97	-5.2	74	-25.23	200	Vert
ertical 10000 -		Meter	Detector	T345 Ant	TARE December	Cable Factor	TARRELINE F. In 1	dB(uVolts/me	E-Fields		E-Fields	Peak Margin	Helpha fee 2	Polosit.
	Test	Reading	Detector	Factor [dB/m]	T145 Preamp Gain [dB]	[dB]	1192 HPF [dB]	ter)	[dBuV/m] - Avg	Average Margin (dB)	[dBuV/m] - Peak	(dB)	Height [cm]	Polarity
Marker No.	Frequency	g												

High Channel



HIGH CHANNEL 64 DATA

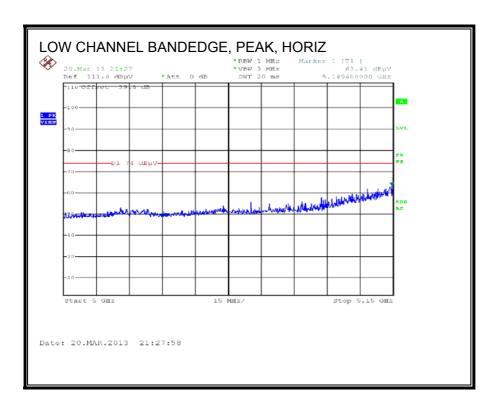
Project:13J14910 Company Name:Mitsumi Model / Config:DWM-W095 Mode:802.11a CDD 6MBs, ch 64_5320MHz Test By:Thanh Nguyen Horizontal 1000 - 7600MHz T345 Ant T145 Cable T159 BRF Corrected E-Fields E-Fields Polarity Meter Detector Margin Margin Height Marker Test Reading Reading [dBuV/m] [dBuV/m] No. Frequenc Factor Preamp Factor [dB] (dB) (dB) [cm] [dB/m] (MHz) (dBuV) Gain [dB] [dB] dB(uVolts - Avg - Peak /meter) 1174.813 46.05 PK 28.2 -35.7 3.3 0 41.85 53.97 -12.12 74 -32.15 200 Horz 5324.138 PK 34.9 -34.9 7.5 0.9 55.01 100 Horz Vertical 1000 - 7600MHz Marker Test Meter Detector T345 Ant T145 Cable T159 BRF Corrected E-Fields Margin E-Fields Margin Height **Polarity** Reading Frequen Factor Factor [dB] Reading [dBuV/m] (dB) [dBuV/m] [cm] (dBuV) [dB/m] Gain [dB] [dB] dB(uVolts - Peak - Avg /meter) 1326.537 45.26 PK 28.5 41.76 74 -35.5 3.5 0 53.97 -12.21 -32.24 200 Vert *4 5324.138 PK 34.9 -34.9 7.5 43.6 0.9 52 200 Vert Horizontal 7600 - 18000MHz T345 Ant T145 Cable T192 HPF Corrected E-Fields E-Fields Polarity Marker Meter Margin Margin Height No. Reading Factor Factor [dB] Reading [dBuV/m] (dB) [dBuV/m] (dB) Preamp [cm] Frequenc (dBuV) [dB/m] Gain [dB] [dB] dB(uVolts - Peak - Avg /meter) 5 15962.619 32.61 PK 41.6 -32.9 13.7 0.5 55.51 74 -18.49 100 Horz Vertical 7600 - 18000MHz T345 Ant T145 Cable E-Fields E-Fields Meter Detector T192 HP Corrected Margin Margin Height Polarity No. Frequency Reading Factor Preamp Factor [dB] Reading [dBuV/m] (dB) [dBuV/m] (dB) [cm] [dB/m] [dB] (dBuV) Gain [dB] dB(uVolts - Peak - Avg /meter) 6 10728.836 36.19 PK 38.3 -34.2 10.9 0.5 51.69 74 -22.31 100 Vert 15957.421 34.46 PK 41.5 -32.9 13.7 0.4 57.16 74 -16.84 200 Vert Horizontal 10000 - 18000MHz T345 Ant Cable Corrected E-Fields E-Fields Polarity Marker Meter Detector T145 T192 HPI Margin Margin Height Test No. Frequency Reading Factor Preamp Factor [dB] Reading [dBuV/m] (dB) [dBuV/m] (dB) [cm] [dB/m] - Avg (dBuV) Gain [dB] [dB] dB(uVolts - Peak /meter) 8 15965.017 23.81 PK 41.6 -32.9 13.7 0.5 46.71 53.97 -7.26 74 -27.29 100 Horz Vertical 10000 - 18000MHz T345 Ant E-Fields E-Fields Test Meter Detector T145 Cable T192 HPF Corrected Margin Margin Height **Polarity** Marker No. Frequenc Reading Factor Preamp Factor [dB] Reading [dBuV/m] (dB) [dBuV/m] (dB) [cm] (dBuV) [dB/m] Gain [dB] [dB] dB(uVolts - Avg - Peak /meter) 10639.68 26.4 PK 38.3 -34.3 10.8 0.2 41.4 53.97 -12.57 74 -32.6 200 Vert 10 PK 41.6 0.5 47.99 53.97 74 Vert 15965.017 25.09 -32.9 13.7 -5.98 -26.01 200

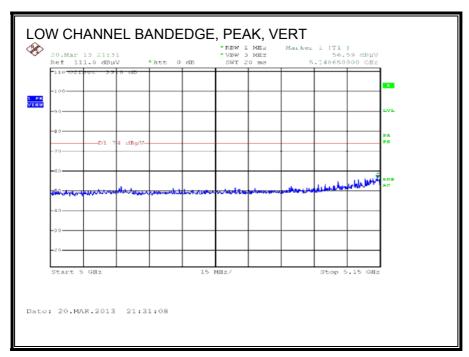
* Fundamental

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

9.8. 802.11n HT20 CDD MCS0 2TX MODE IN THE 5.3 GHz BAND

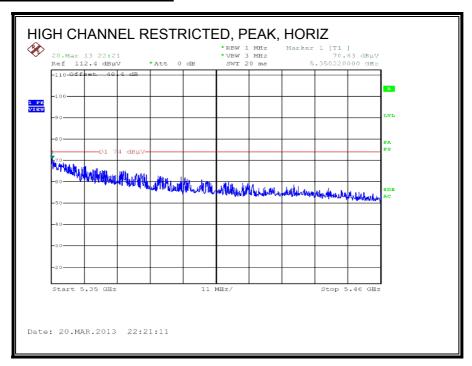
AUTHORIZED BANDEDGE (LOW CHANNEL)

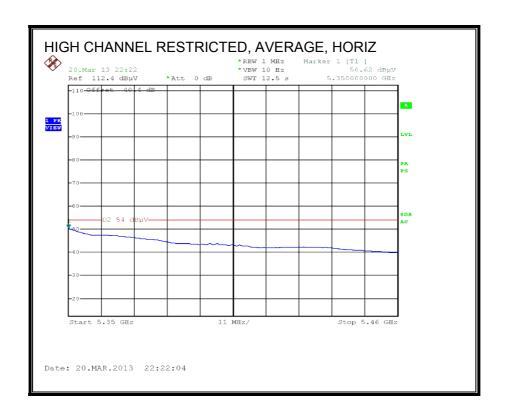


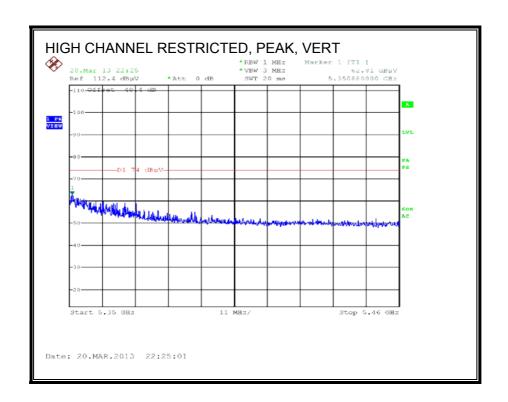


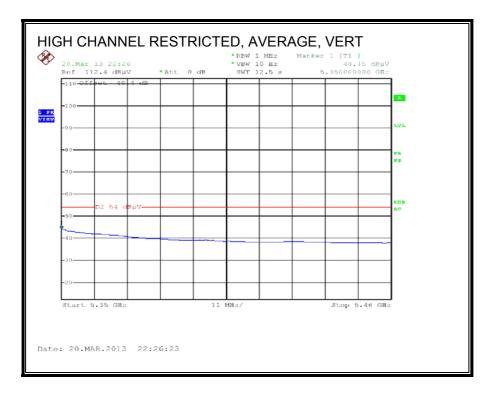
Page 304 of 429

RESTRICTED BANDEDGE (HIGH CHANNEL



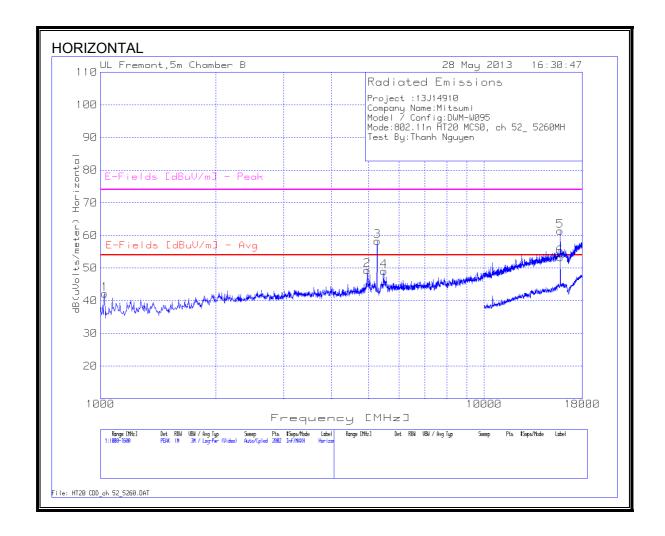


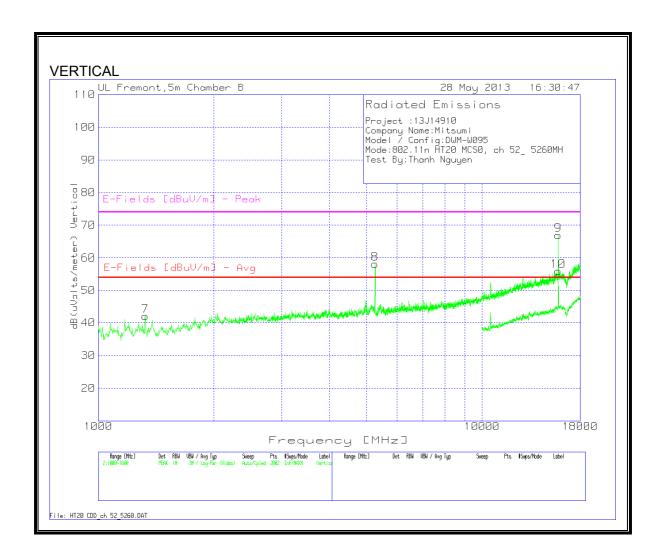




HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL GRAPH





LOW CHANNEL 52 DATA

Marker No.	Test Frequency (MHz)	Meter Reading	Detector	T345 Ant Factor	T145 Preamp Gain [dB]	Cable Factor	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
	(WITZ)	(dBuV)		[dB/m]	Gamilani	[ub]		metery	[dbdv/m] - Avg	margin (ub)	[dodv/m] - reak	(db)		
1	1026.387	47.41	PK	27.5	-36	3.2	0	42.11	53.97	-11.86	74	-31.89	158	Horz
2	4958.021	42.14	PK	34.6	-34.9	7.2	0.3	49.34	53.97	-4.63	74	-24.66	158	Horz
*3	5264.768 5479.16	49.95 40.53	PK PK	34.9 34.9	-34.9 -34.9	7.4	0.9	58.25 49.03			68.2	-19.17	200 158	Horz
*	3473.10	40.33	PK	34.9	-54.3	7.0	0.9	45.03	-		00.2	-19.17	130	HOIZ
ertical 1000 -	7600MHz													
Marker No.	Test Frequency (MHz)	Meter Reading	Detector	T345 Ant Factor	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 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	1326.537	(dBuV) 45.6	PK	[dB/m]	-35.5	3.5	0	42.1	53.97	-11.87	74	-31.9	200	Vert
*8	5261.469	49.81	PK	34.9	-34.9	7.4	0.9	58.11	-	-	-	-	200	Vert
										1			- 1	
orizontal 760 Marker No.	00 - 18000MHz Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Fact	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
warker NO.	(MHz)	Reading (dBuV)	Detector	Factor [dB/m]	Gain [dB]	[dB]	1139 RKF [GB]	meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)	neight [cm]	Polarity
5	15775.512	39.23	PK	41.3	-32.9	13.6	0.2	61.43	. 9	9	74	-12.57	100	Horz
ertical 7600 -	19000841													
ertical 7600 - Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 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	15780.71	44.77	PK	41.3	-32.9	13.6	0.2	66.97		-	74	-7.03	200	Vert
	Tort Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Fast	T159 BRF [dB]	dB(uVolts/	E-Fields	Avorage	E-Fields	Book Bassai	Hoight fami	Polarity
viarker No.	Test Frequency (MHz)	Reading (dBuV)	Detector	Factor [dB/m]	Gain [dB]	[dB]	112A RKI- [qB]	meter)	[dBuV/m] - Avg	Average Margin (dB)	[dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
6	15775.512	31.13	PK	41.3	-32.9	13.6	0.2	53.33	53.97	-0.64	74	-20.67	100	Horz
author took	- 18000MHz													
ertical 10000 Marker No.	- 18000MHz Test Frequency	Meter	Detector	T345 Ant	T145 Preamn	Cable Factor	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
10	15780.71	33.78	PK	41.3	-32.9	13.6	0.2	55.98	53.97	2.01	74	-18.02	200	Vert
orizontal 100	000 - 18000MHz													
	Test Frequency	Meter	Detector	T345 Ant	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolts/	E-Fields	Average	E-Fields	Peak Margin	Height [cm]	Polarity
	(MHz)	Reading (dBuV)		Factor [dB/m]	Gain [dB]	[dB]		meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	(dB)		
6	15780.512	26.35	Av	41.3	-32.9	13.6	0.2	48.55	53.97	-5.42	-		107	Horz
ertical 10000	- 18000MHz													
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T345 Ant Factor [dB/m]	T145 Preamp Gain [dB]	Cable Factor [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Average Margin (dB)	E-Fields [dBuV/m] - Peak	Peak Margin (dB)	Height [cm]	Polarity
10	15778.11	29.08	Av	41.3	-32.9	13.6	0.2	51.28	53.97	-2.69		1.0	132	Vert
Fundament C - Peak dete P - Quasi-Pe V - Average	ector ak detector													

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL GRAPH

