# Appendix B. Radiated Spurious Emission

Test Engineer :	Elvis Chen, Karl Hou, Stan Hsieh and Lewis He	Temperature :	23~25°C
reat Engineer .	· · · · · · · · · · · · · · · · · · ·	Relative Humidity :	45~47%

<For Sample 2>

# 2.4GHz 2400~2483.5MHz BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dB <sub>µ</sub> V)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		2360.58	51.59	-22.41	74	52.37	27.14	5.33	33.25	260	325	Р	Н
		2383.71	41.8	-12.2	54	42.46	27.19	5.39	33.24	260	325	Α	Н
	*	2402	95.24	-	-	95.84	27.23	5.39	33.22	260	325	Р	Н
	*	2402	94.53	-	-	95.13	27.23	5.39	33.22	260	325	Α	Н
BLE													Н
CH 00													Н
2402MHz		2379.66	51.3	-22.7	74	51.96	27.19	5.39	33.24	297	55	Р	V
2-102111112		2385.78	42.15	-11.85	54	42.77	27.23	5.39	33.24	297	55	Α	V
	*	2402	95.47	-	-	96.07	27.23	5.39	33.22	297	55	Р	V
	*	2402	94.77	-	-	95.37	27.23	5.39	33.22	297	55	Α	V
													V
													V
		2321.34	51.35	-22.65	74	52.29	27.05	5.27	33.26	126	281	Р	Н
		2382.63	41.8	-12.2	54	42.46	27.19	5.39	33.24	126	281	Α	Н
	*	2440	94.66	-	-	95.08	27.37	5.42	33.21	126	281	Р	Н
	*	2440	93.98	-	-	94.4	27.37	5.42	33.21	126	281	Α	Н
BLE		2489.6	51.62	-22.38	74	51.84	27.5	5.46	33.18	126	281	Р	Н
CH 19		2485.32	42.11	-11.89	54	42.37	27.46	5.46	33.18	126	281	Α	Н
2440MHz		2351.67	51.08	-22.92	74	51.86	27.14	5.33	33.25	232	322	Р	V
2-T-TOWN 12		2360.94	41.78	-12.22	54	42.56	27.14	5.33	33.25	232	322	Α	٧
	*	2440	97.19	-	-	97.61	27.37	5.42	33.21	232	322	Р	٧
	*	2440	96.52	-	-	96.94	27.37	5.42	33.21	232	322	Α	V
		2488.6	51.15	-22.85	74	51.37	27.5	5.46	33.18	232	322	Р	٧
		2484.08	41.95	-12.05	54	42.21	27.46	5.46	33.18	232	322	Α	٧

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Page Number : B1 of B16



# SPORTON LAB. FCC RF Test Report

	*	2480	94.67	-	-	94.95	27.46	5.44	33.18	145	1	Р	Н
	*	2480	93.96	-	-	94.24	27.46	5.44	33.18	145	1	Р	Н
		2484.36	51.96	-22.04	74	52.22	27.46	5.46	33.18	145	1	Р	Н
		2496.6	42.09	-11.91	54	42.3	27.5	5.46	33.17	145	1	Α	Н
													Н
BLE													Н
CH 39	*	2480	99.67	-	-	99.95	27.46	5.44	33.18	319	309	Р	V
2480MHz	*	2480	98.98	-	-	99.26	27.46	5.44	33.18	319	309	Α	V
		2497.52	52.3	-21.7	74	52.51	27.5	5.46	33.17	319	309	Р	V
		2484.28	42.25	-11.75	54	42.51	27.46	5.46	33.18	319	309	Α	V
													V
													V
Remark	1.	No other spurious	s found.	•		•		•	•				
Keinark	2.	All results are PA	SS against	Peak and	Average lin	nit line.							

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#### 2.4GHz 2400~2483.5MHz

# BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V
		4806	36.24	-37.76	74	57.88	31.42	7.58	60.64	100	0	Р	Н
													Н
DI E													Н
BLE CH 00													Н
2402MHz		4806	36	-38	74	57.64	31.42	7.58	60.64	100	0	Р	V
2402WITI2													V
													V
													V
		4878	37.59	-36.41	74	58.85	31.56	7.7	60.52	100	0	Р	Н
		7320	44.16	-29.84	74	59.43	36.22	9.49	60.98	100	0	Р	Н
													Н
BLE													Н
CH 19		4878	37.82	-36.18	74	59.08	31.56	7.7	60.52	100	0	Р	V
2440MHz		7320	42.6	-31.4	74	57.87	36.22	9.49	60.98	100	0	Р	V
													٧
													V
		4962	37.96	-36.04	74	58.54	31.73	8.05	60.36	100	0	Р	Н
		7440	44.35	-29.65	74	59.59	36.49	9.61	61.34	100	0	Р	Н
													Н
BLE													Н
CH 39 2480MHz		4962	37.92	-36.08	74	58.5	31.73	8.05	60.36	100	0	Р	V
240UIVITI2		7440	43.29	-30.71	74	58.53	36.49	9.61	61.34	100	0	Р	V
													V
													V
Domoris	1. No	other spuriou	s found.						•				
Remark	2. All	results are PA	SS against F	Peak and	l Average lim	it line.							

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#### **Emission below 1GHz**

# 2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )		( dBµV/m )	(dBµV)	( dB/m )	( dB )	(dB)	( cm )	( deg )	(P/A)	
		30	29.1	-10.9	40	41.27	20	0.65	32.82			Р	Н
		79.68	30.63	-9.37	40	54.51	7.88	0.93	32.69	122	56	Р	Н
		140.7	25.99	-17.51	43.5	45.46	11.87	1.33	32.67			Р	Н
		309.8	22.82	-23.18	46	39.61	14.07	1.88	32.74			Р	Н
		433.7	18.52	-27.48	46	32.19	17.04	2.16	32.87			Р	Н
		630.4	21.41	-24.59	46	31.85	19.96	2.62	33.02			Р	Н
													Н
													Н
													Н
													Н
													Н
2.4GHz													Н
BLE		30.27	34.84	-5.16	40	47.01	20	0.65	32.82	159	255	Р	V
LF		79.14	34.61	-5.39	40	58.49	7.88	0.93	32.69			Р	V
		140.43	24.67	-18.83	43.5	44.14	11.87	1.33	32.67			Р	V
		320.3	22.46	-23.54	46	38.96	14.37	1.88	32.75			Р	V
		326.6	19.23	-26.77	46	35.5	14.55	1.94	32.76			Р	V
		451.2	20.18	-25.82	46	33.44	17.32	2.3	32.88			Р	V
													V
													V
													V
													V
													V
													V

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Page Number : B4 of B16

# Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not
	exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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Page Number : B5 of B16

#### A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	( dBµV/m )	(dB)	(dBµV/m)	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level( $dB\mu V/m$ ) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

#### For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dB $\mu$ V) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level( $dB\mu V/m$ ) Limit Line( $dB\mu V/m$ )
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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# <For Sample 1>

# 2.4GHz 2400~2483.5MHz BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	(deg)	(P/A)	(H/V)
	*	2480	96.48	-	-	96.76	27.46	5.44	33.18	298	55	Р	Н
	*	2480	95.82	-	-	96.1	27.46	5.44	33.18	298	55	Р	Н
		2484.44	51.21	-22.79	74	51.47	27.46	5.46	33.18	298	55	Р	Н
		2485.08	42.53	-11.47	54	42.79	27.46	5.46	33.18	298	55	Α	Н
DI E													Н
BLE CH 39													Н
2480MHz	*	2480	100.02	-	-	100.3	27.46	5.44	33.18	301	318	Р	٧
2400WITI2	*	2480	99.35	-	-	99.63	27.46	5.44	33.18	301	318	Р	٧
		2489.56	51.72	-22.28	74	51.94	27.5	5.46	33.18	301	318	Р	٧
		2486.36	42.4	-11.6	54	42.66	27.46	5.46	33.18	301	318	Α	٧
													٧
													٧
Remark	1. No	o other spuriou	s found.	<u> </u>		1						I	1

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Page Number : B7 of B16

<sup>2.</sup> All results are PASS against Peak and Average limit line.

#### 2.4GHz 2400~2483.5MHz

# BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	( dBµV/m )	Limit (dB)	Line ( dBµV/m )	Level ( dBµV )	Factor ( dB/m )	Loss (dB)	Factor (dB)	Pos ( cm )	Pos ( deg )	Avg.	(H/V)
		4962	38.02	-35.98	74	58.6	31.73	8.05	60.36	100	0	P	Н
		7440	41.76	-32.24	74	57	36.49	9.61	61.34	100	0	Р	Н
DI E													Н
BLE													Н
CH 39 2480MHz		4962	37.89	-36.11	74	58.47	31.73	8.05	60.36	100	0	Р	٧
2400WII 12		7440	42.71	-31.29	74	57.95	36.49	9.61	61.34	100	0	Р	V
													V
													V
Remark		o other spurious		Peak and	Average lim	it line							

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#### **Emission below 1GHz**

# 2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	(dB)	( cm )	( deg )	(P/A)	(H/V)
		81.03	31.82	-8.18	40	55.46	8.12	0.93	32.69	100	114	Р	Н
		105.6	29.83	-13.67	43.5	50.33	11	1.14	32.64			Р	Н
		141.24	30.68	-12.82	43.5	50.17	11.85	1.33	32.67			Р	Н
		326.6	24.72	-21.28	46	40.99	14.55	1.94	32.76			Р	Н
		566.7	20.1	-25.9	46	31.53	18.99	2.57	32.99			Р	Н
		738.9	25.51	-20.49	46	34.17	21.38	2.91	32.95			Р	Н
													Н
													Н
													Н
													Н
2.4GHz													Н
BLE													Н
LF		30	36.36	-3.64	40	48.53	20	0.65	32.82	115	320	Р	V
<b>L</b> 1		80.76	35.47	-4.53	40	59.23	8	0.93	32.69			Р	V
		140.97	23.89	-19.61	43.5	43.36	11.87	1.33	32.67			Р	V
		306.3	19.22	-26.78	46	36.09	13.99	1.88	32.74			Р	V
		671.7	28.26	-17.74	46	38.21	20.38	2.67	33			Р	V
		888.7	24.83	-21.17	46	30.96	23.04	3.2	32.37			Р	V
													V
													V
													V
													V
													V
	1												V

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Page Number : B9 of B16

# Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not
	exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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Page Number : B10 of B16

#### A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	( dBµV/m )	(dB)	(dBµV/m)	(dBµV)	( dB/m )	(dB)	( dB )	( cm )	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level( $dB\mu V/m$ ) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

#### For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dB $\mu$ V) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level( $dB\mu V/m$ ) Limit Line( $dB\mu V/m$ )
- $=43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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# <For Sample 3>

# 2.4GHz 2400~2483.5MHz BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	(deg)	(P/A)	(H/V)
	*	2480	95.39	-	-	95.67	27.46	5.44	33.18	116	305	Р	Н
	*	2480	94.74	-	-	95.02	27.46	5.44	33.18	116	305	Р	Н
		2485.68	52.42	-21.58	74	52.68	27.46	5.46	33.18	116	305	Р	Н
		2485.32	42.08	-11.92	54	42.34	27.46	5.46	33.18	116	305	Α	Н
BLE CH 39 2480MHz													Н
													Н
	*	2480	99.93	-	-	100.21	27.46	5.44	33.18	248	291	Р	٧
	*	2480	99.26	-	-	99.54	27.46	5.44	33.18	248	291	Р	٧
		2483.68	52.38	-21.62	74	52.64	27.46	5.46	33.18	248	291	Р	<b>V</b>
		2483.52	42.48	-11.52	54	42.74	27.46	5.46	33.18	248	291	Α	<b>V</b>
													<b>V</b>
													٧
Remark		o other spurious		Peak and	Average lim	it line							

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Page Number : B12 of B16

#### 2.4GHz 2400~2483.5MHz

# BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		, <b></b> .	,	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	(dBµV/m)	(dB <sub>µ</sub> V)	( dB/m )	( dB )	( dB )	(cm)	( deg )	(P/A)	(H/V)
		4962	38.47	-35.53	74	59.05	31.73	8.05	60.36	100	0	Р	Н
		7440	43.08	-30.92	74	58.32	36.49	9.61	61.34	100	0	Р	Н
DI E													Н
BLE													Н
CH 39 2480MHz		4960	38.08	-35.92	74	58.78	31.73	7.93	60.36	100	0	Р	V
2400WITI2		7440	43.3	-30.7	74	58.54	36.49	9.61	61.34	100	0	Р	V
													٧
		·			·								V
Remark	No other spurious found.												
Kemark	2. All	results are PA	SS against F	Peak and	Average lim	it line.							

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#### **Emission below 1GHz**

# 2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		81.03	28.34	-11.66	40	51.98	8.12	0.93	32.69	147	199	Р	Н
		97.5	27.55	-15.95	43.5	48.89	10.16	1.14	32.64			Р	Н
		148.26	28.77	-14.73	43.5	48.47	11.65	1.33	32.68			Р	Н
		321	20.08	-25.92	46	36.56	14.39	1.88	32.75			Р	Н
		352.5	20.01	-25.99	46	35.61	15.25	1.94	32.79			Р	Н
		850.9	23.75	-22.25	46	30.67	22.51	3.16	32.59			Р	Н
													Н
													Н
													Н
													Н
													Н
2.4GHz													Н
BLE LF		30.81	30.4	-9.6	40	43.11	19.46	0.65	32.82			Р	V
LF		82.65	31.15	-8.85	40	54.66	8.24	0.93	32.68	100	21	Р	V
		149.07	22.63	-20.87	43.5	42.35	11.63	1.33	32.68			Р	V
		319.6	16.48	-29.52	46	32.98	14.37	1.88	32.75			Р	V
		352.5	17.35	-28.65	46	32.95	15.25	1.94	32.79			Р	V
		890.8	25.67	-20.33	46	31.76	23.07	3.2	32.36			Р	V
													V
													V
													V
													V
													V
													V

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# Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not
	exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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#### A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	( dBµV/m )	(dB)	(dBµV/m)	(dB <sub>µ</sub> V)	( dB/m )	(dB)	( dB )	( cm )	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level( $dB\mu V/m$ ) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

#### For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dB $\mu$ V) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level( $dB\mu V/m$ ) Limit Line( $dB\mu V/m$ )
- $=43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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