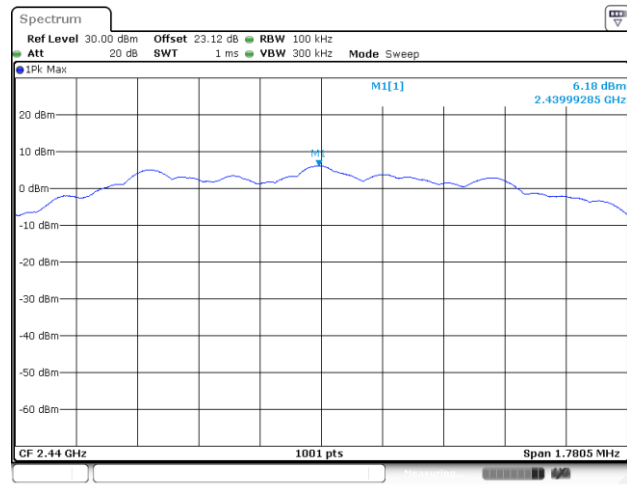




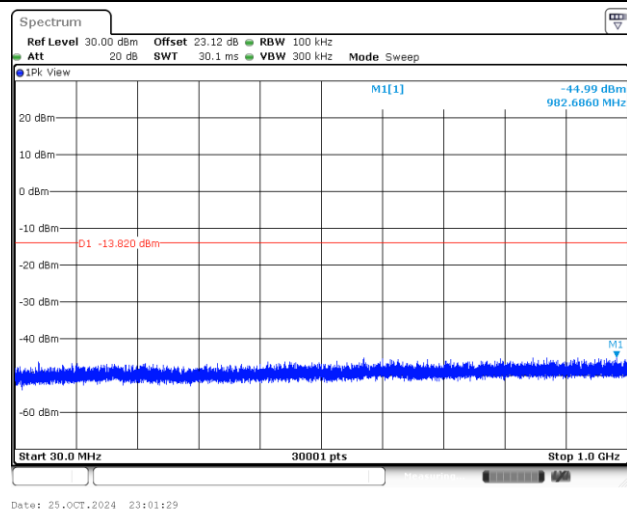
Channel 19

100kHz PSD reference Level Plot

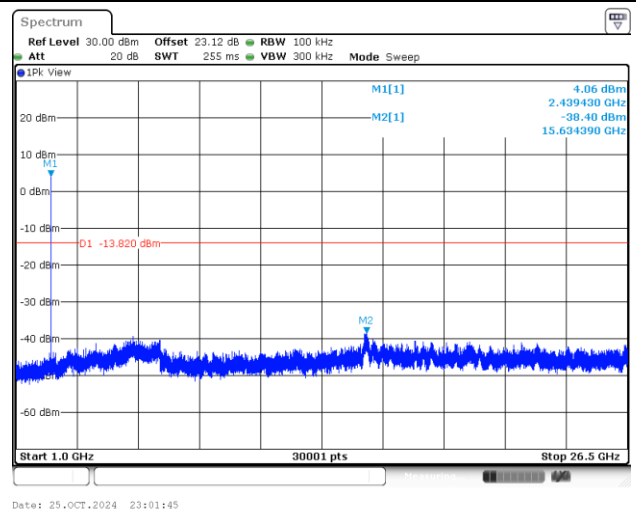


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



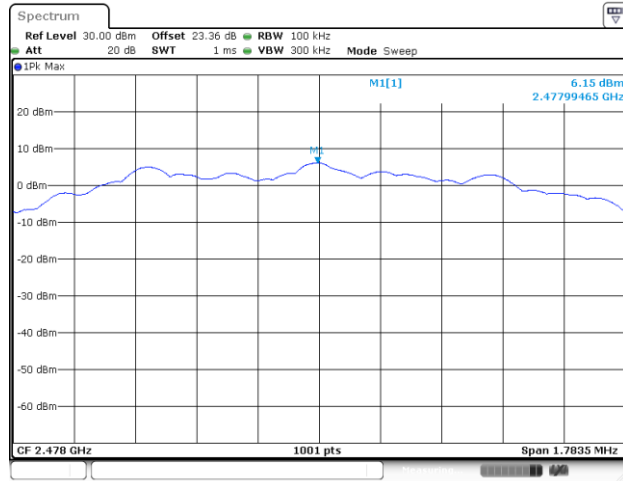
Spurious Emission 1GHz~26.5GHz Plot



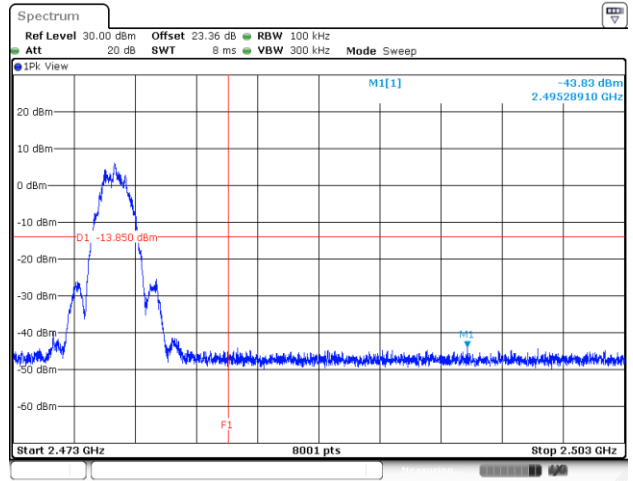


Channel 38

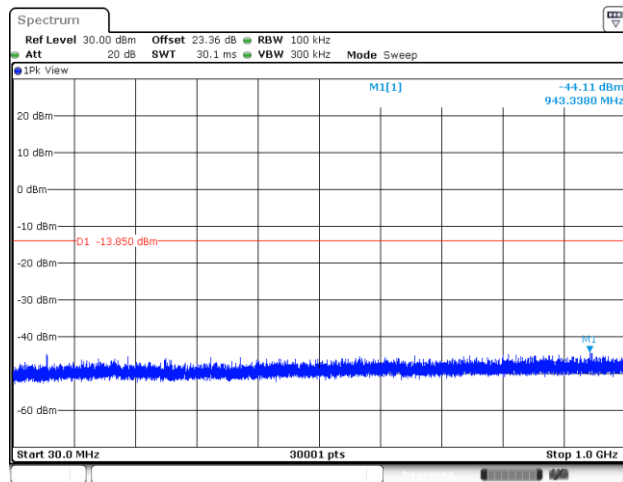
100kHz PSD reference Level Plot



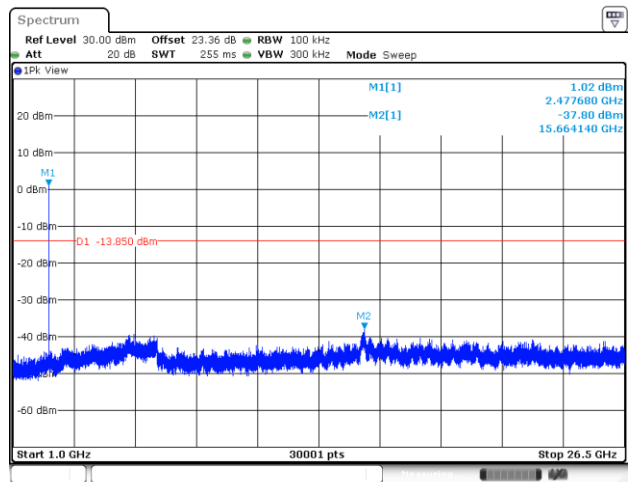
Low Channel Plot



Spurious Emission 30MHz~1GHz Plot

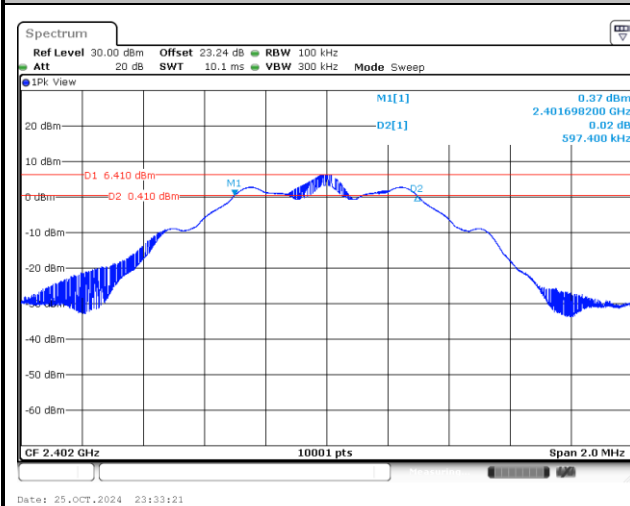
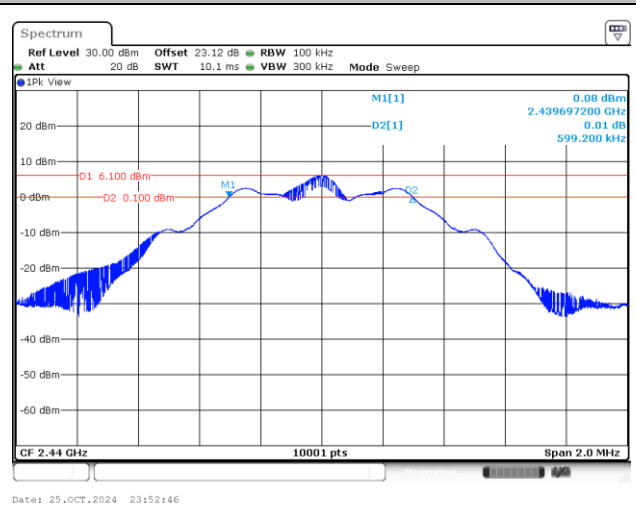
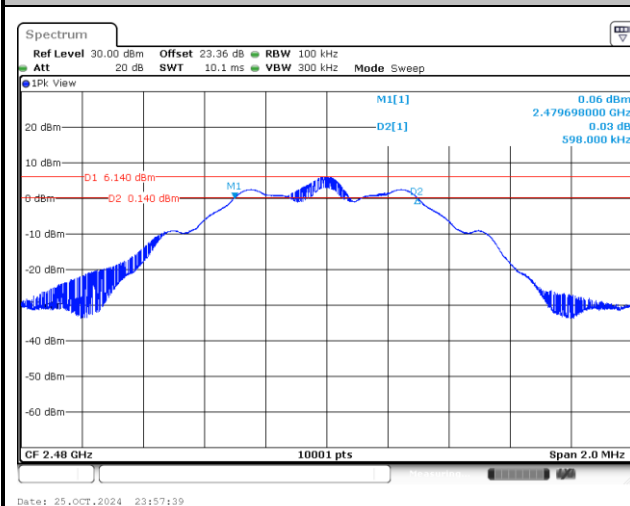


Spurious Emission 1GHz~26.5GHz Plot

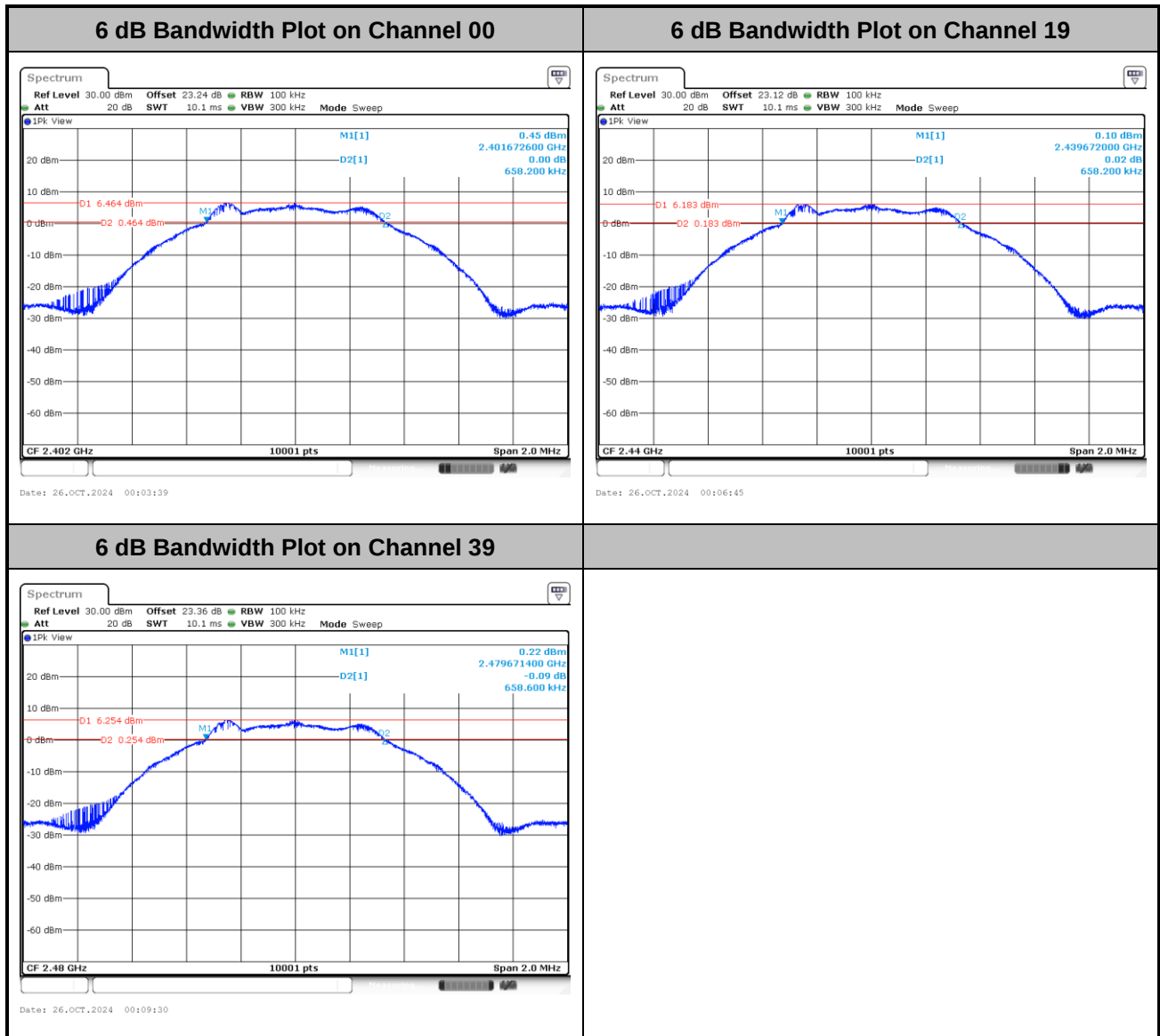


**6dB Bandwidth**

<125Kbps>

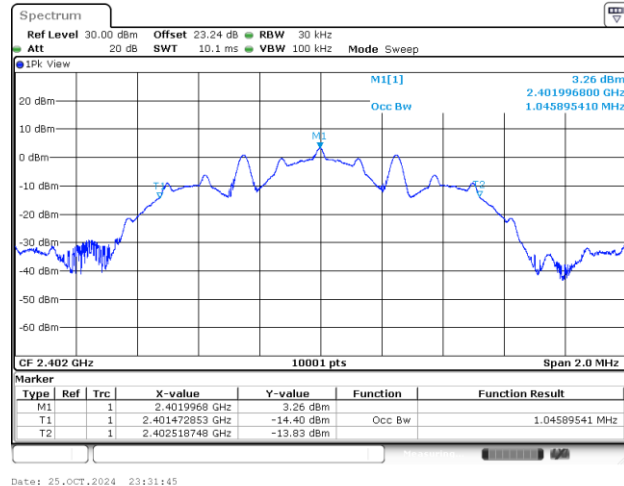
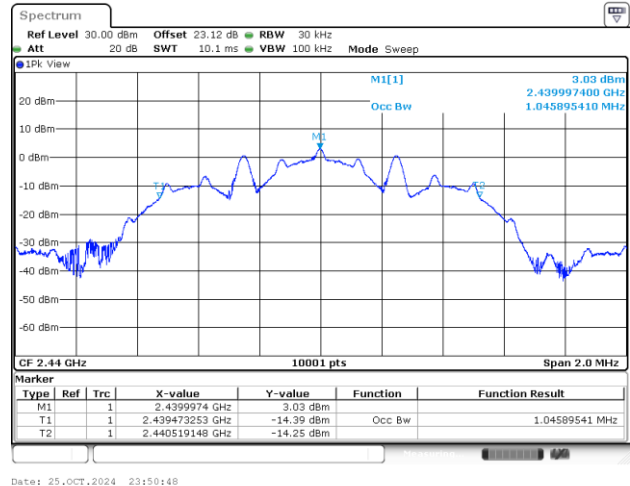
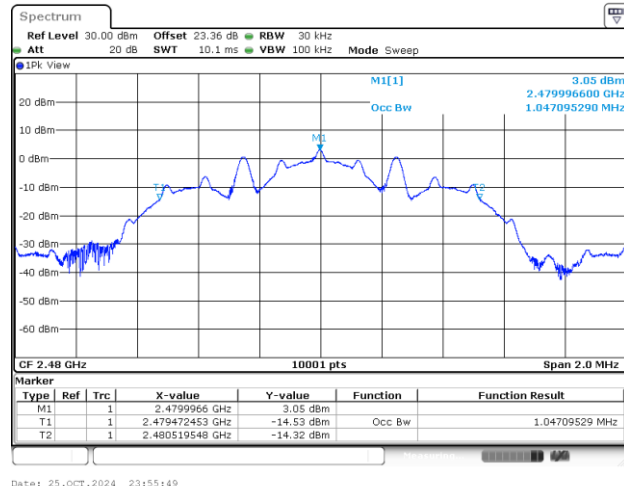
6 dB Bandwidth Plot on Channel 00**6 dB Bandwidth Plot on Channel 19****6 dB Bandwidth Plot on Channel 39**

<500Kbps>



**99% Occupied Bandwidth**

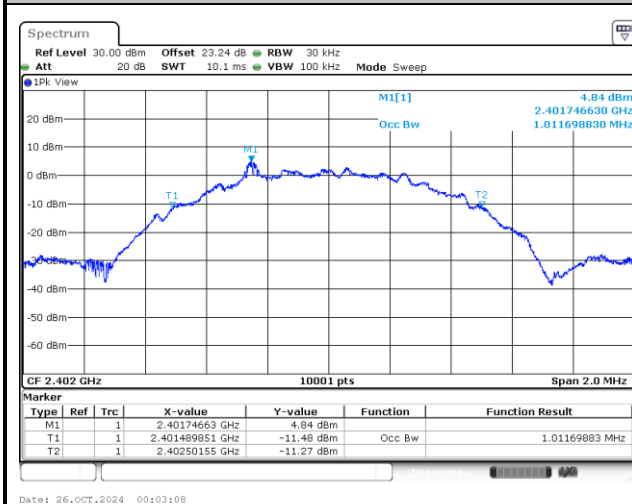
<125Kbps>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

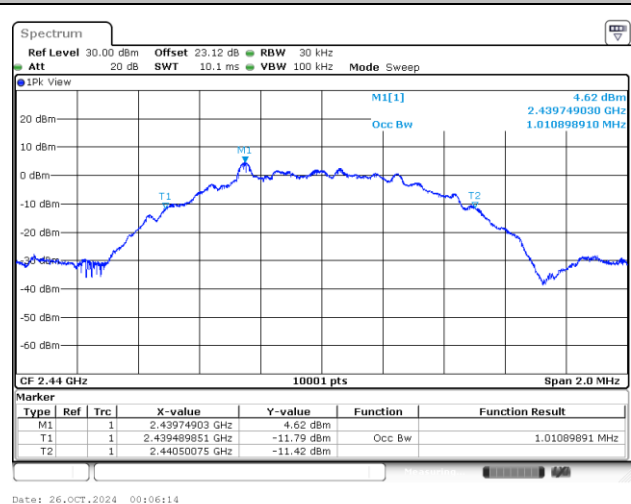


<500Kbps>

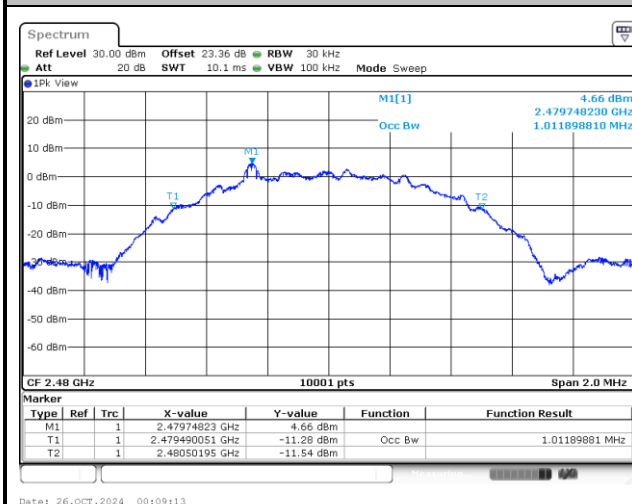
99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19

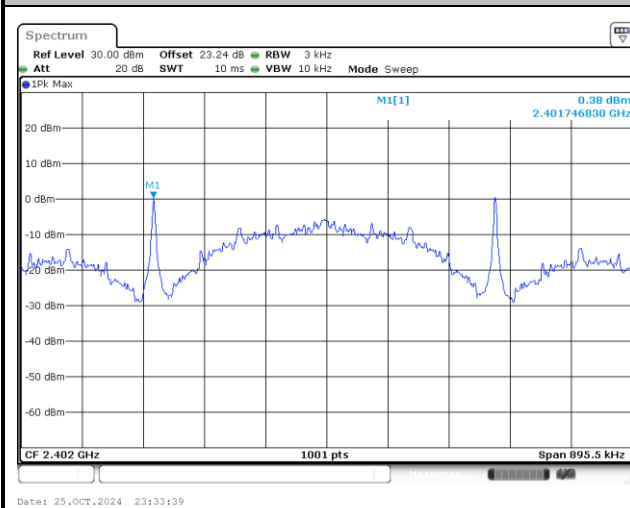
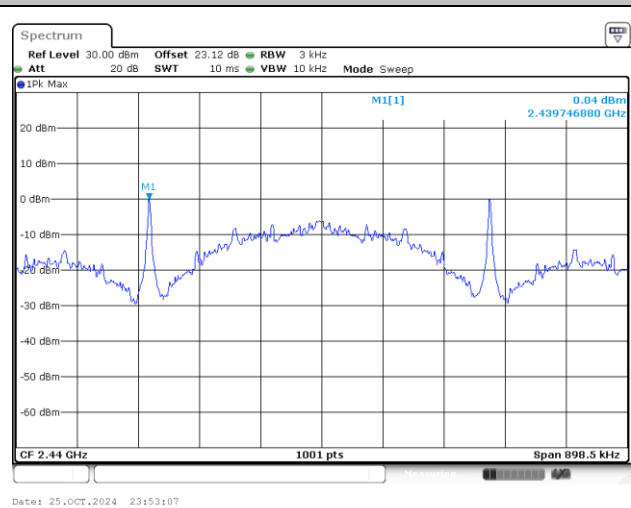
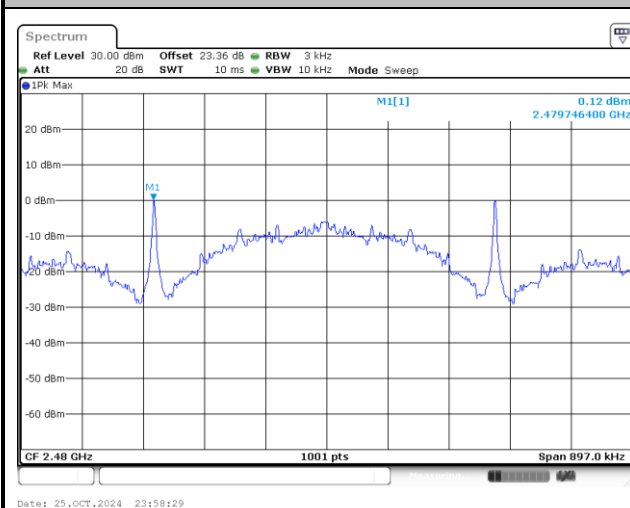


99% Occupied Bandwidth Plot on Channel 39



**Power Spectral Density (dBm/3kHz)**

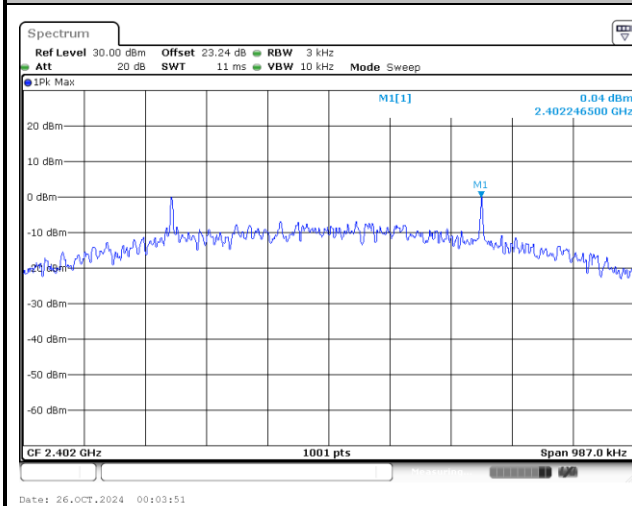
<125Kbps>

Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

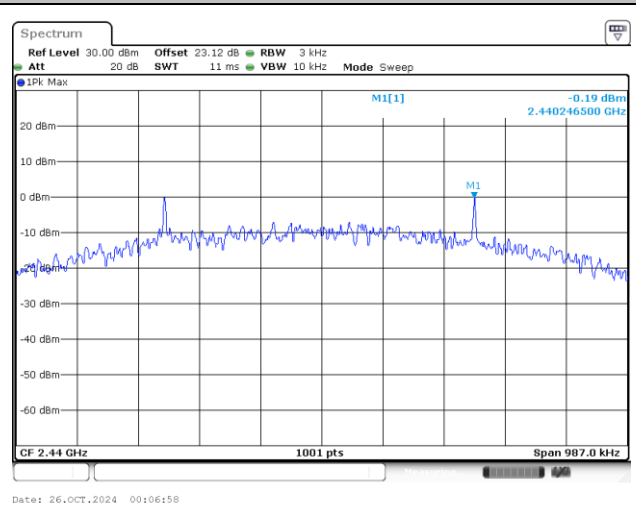


<500Kbps>

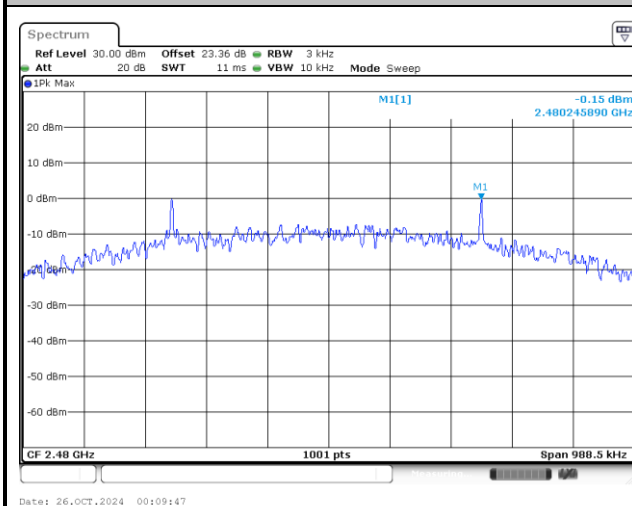
Power Density (dBm/3kHz) Plot Channel 00



Power Density (dBm/3kHz) Plot Channel 19

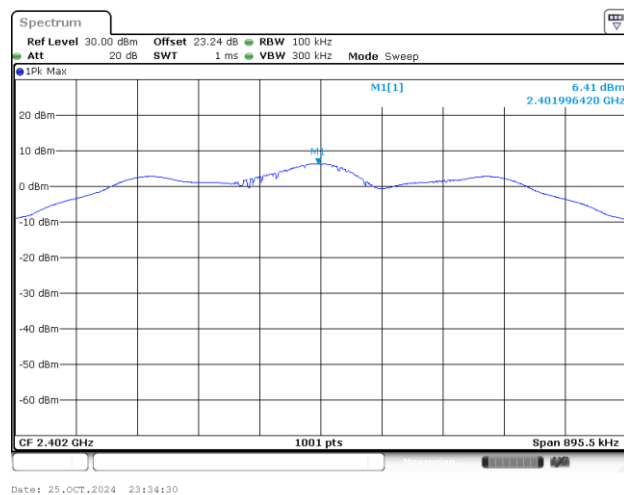
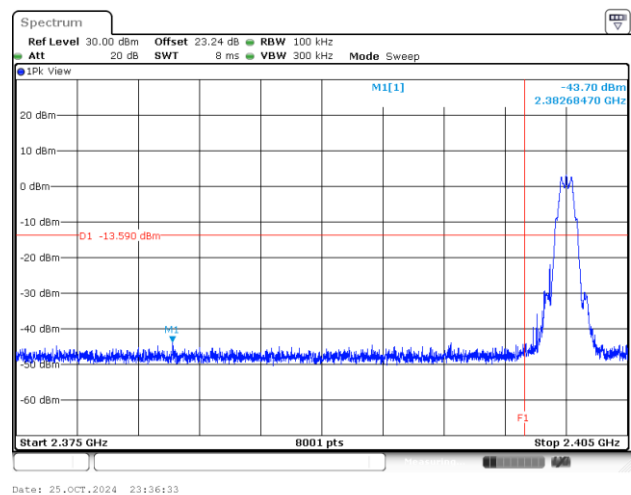
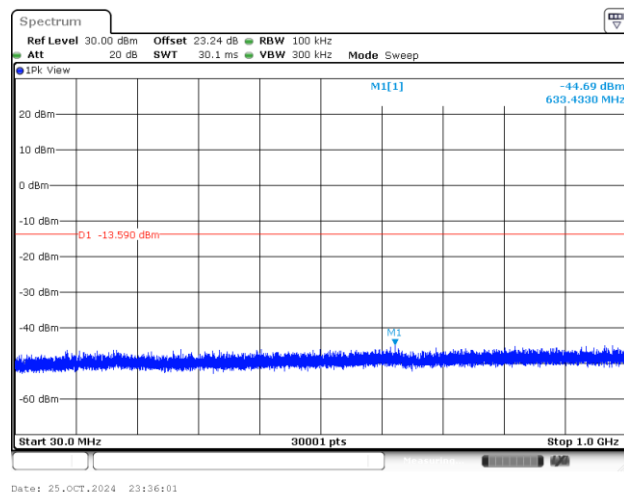
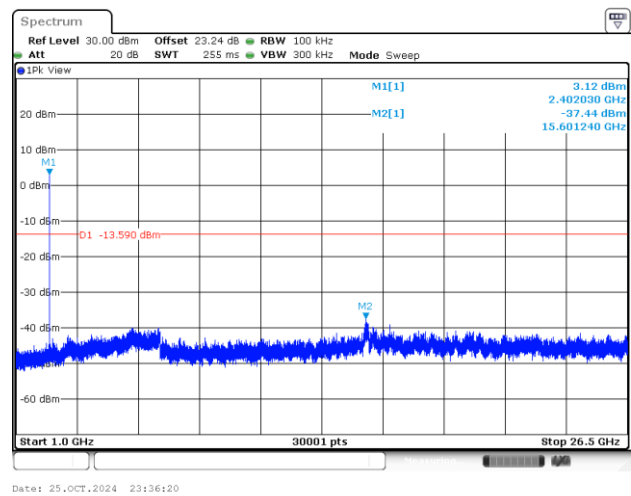


Power Density (dBm/3kHz) Plot Channel 39



**Band Edge and Conducted Spurious Emission**

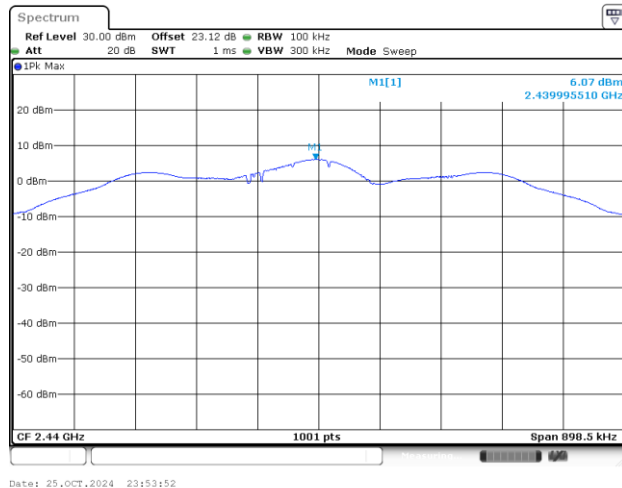
<125Kbps>

Channel 00**100kHz PSD reference Level Plot****Low Channel Plot****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**



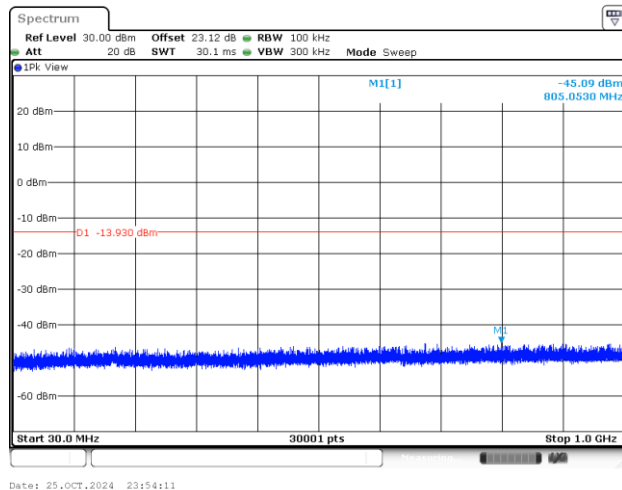
Channel 19

100kHz PSD reference Level Plot

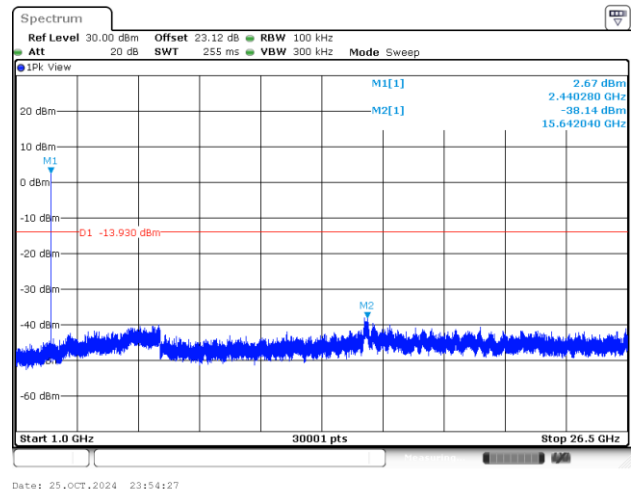


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



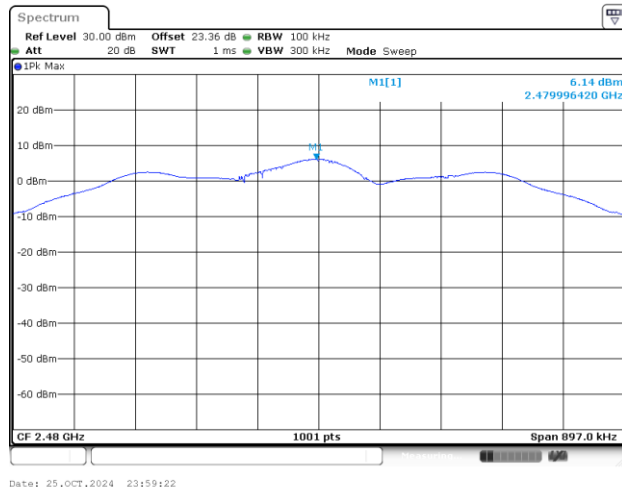
Spurious Emission 1GHz~26.5GHz Plot



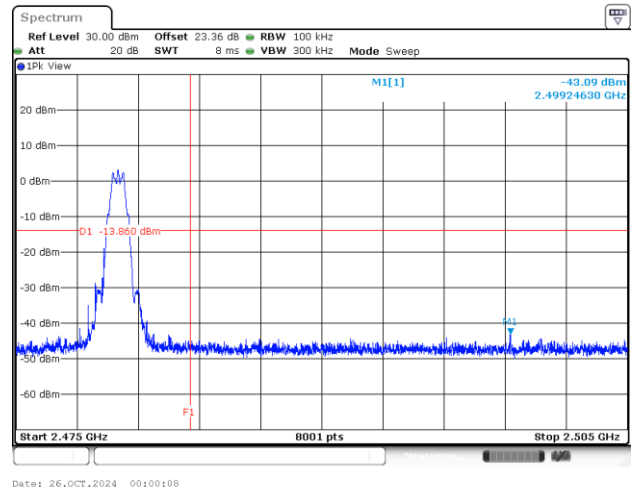


Channel 39

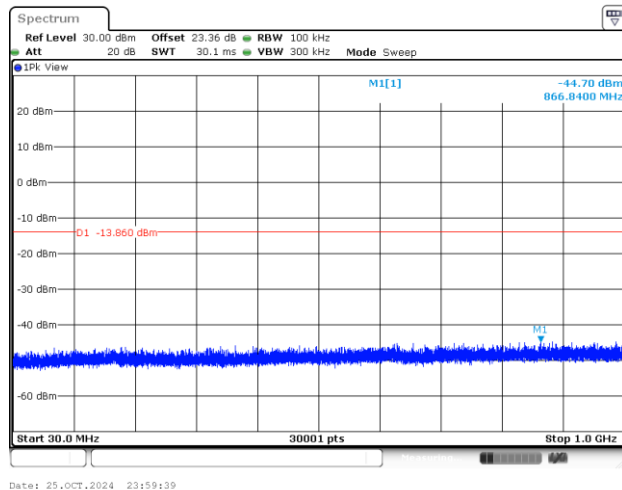
100kHz PSD reference Level Plot



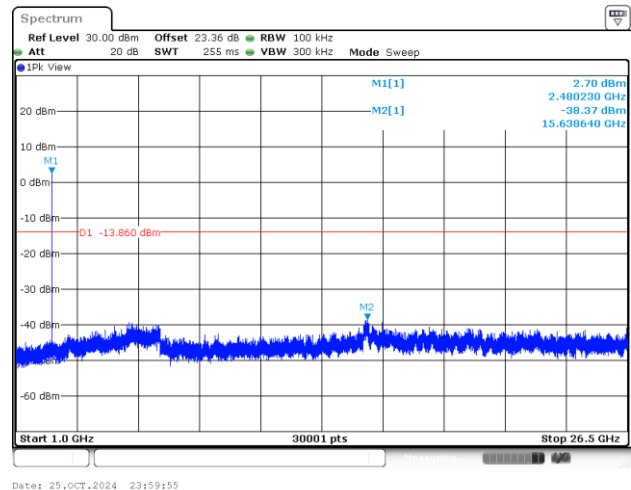
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot

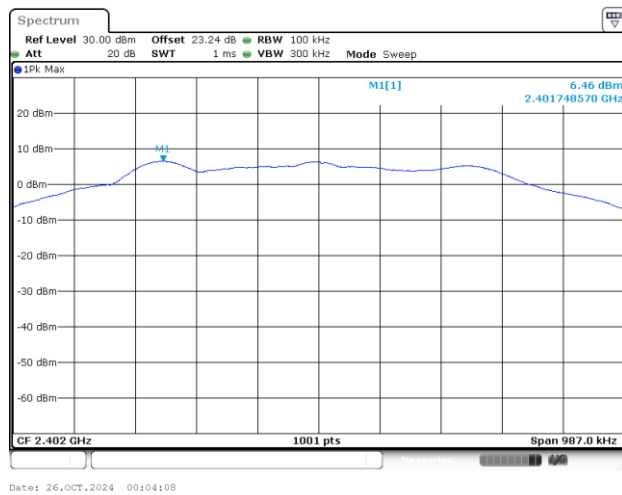




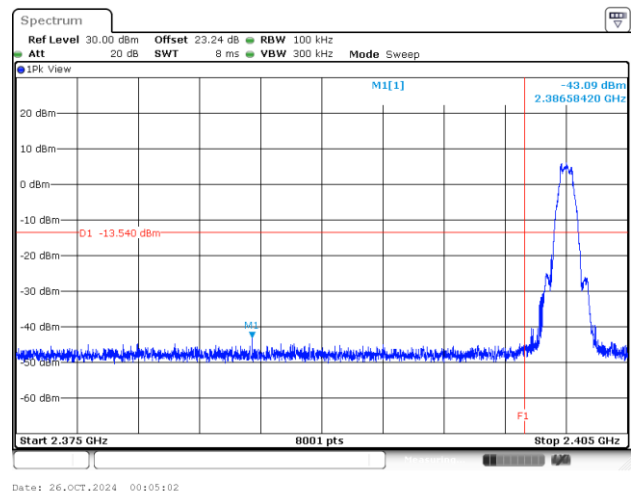
<500Kbps>

Channel 00

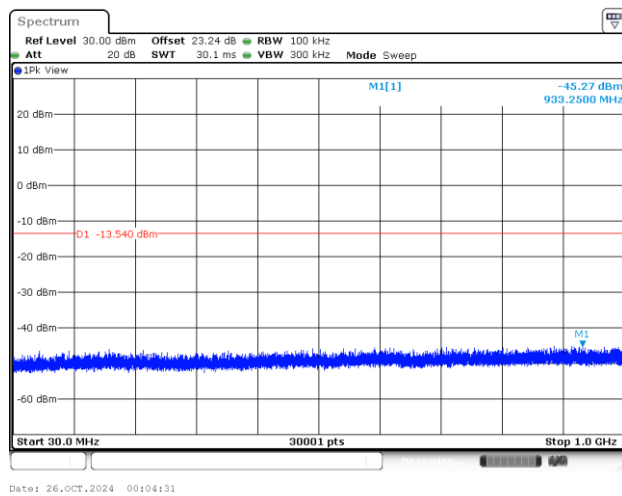
100kHz PSD reference Level Plot



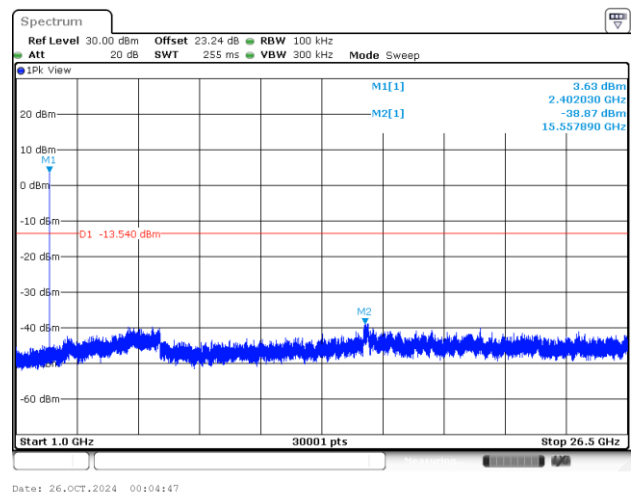
Low Channel Plot



Spurious Emission 30MHz~1GHz Plot



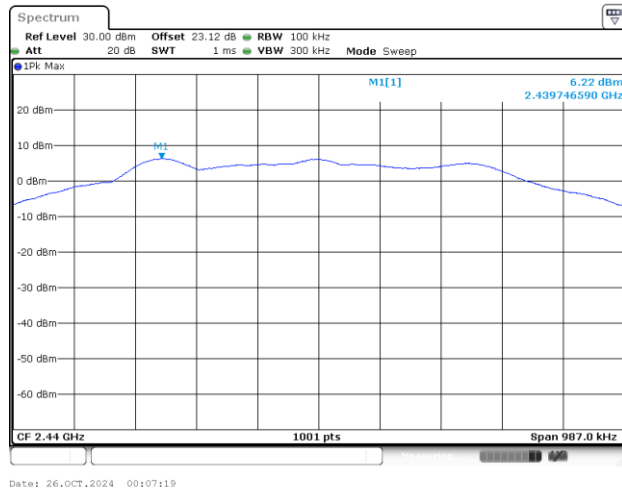
Spurious Emission 1GHz~26.5GHz Plot





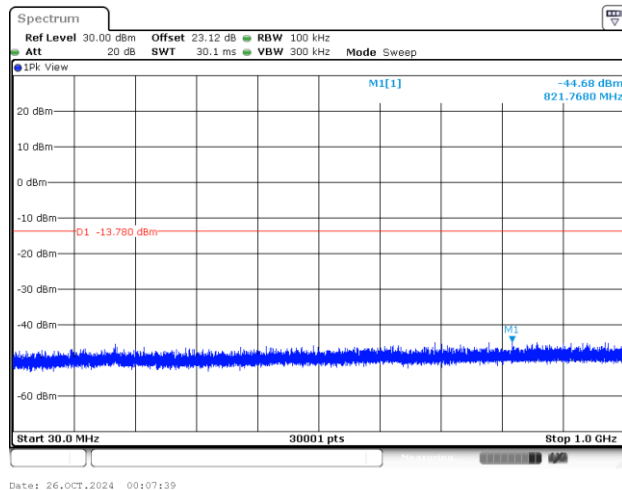
Channel 19

100kHz PSD reference Level Plot

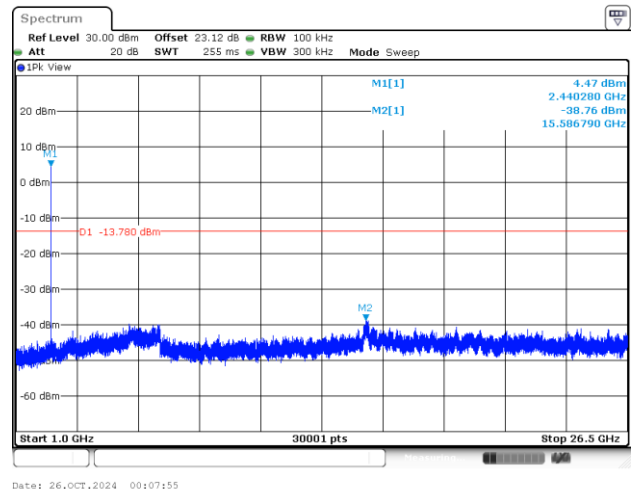


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



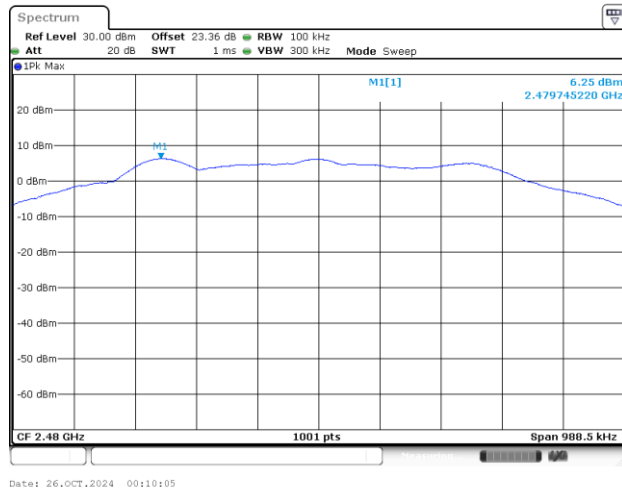
Spurious Emission 1GHz~26.5GHz Plot



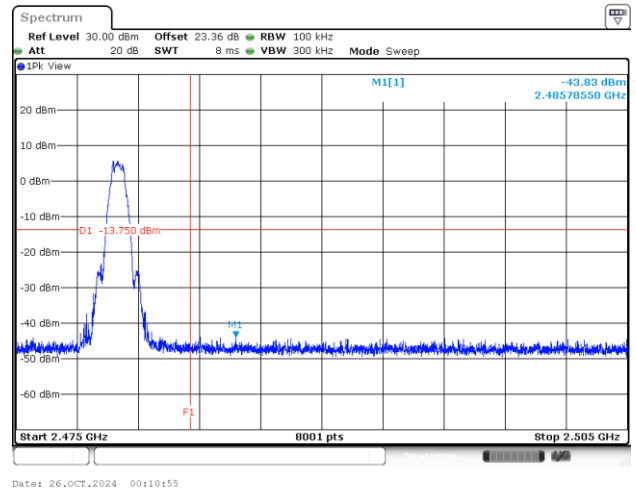


Channel 39

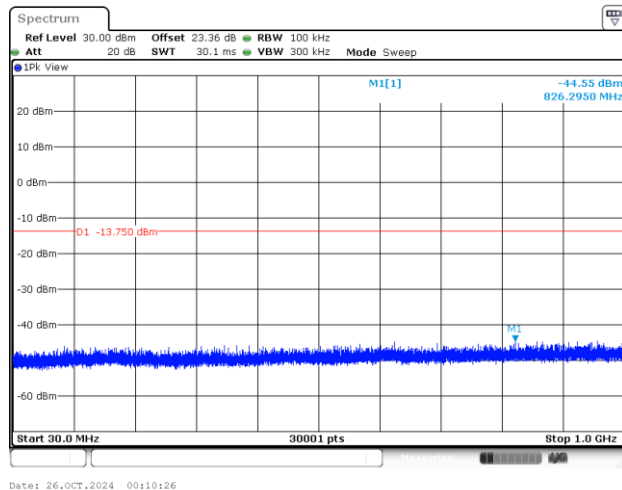
100kHz PSD reference Level Plot



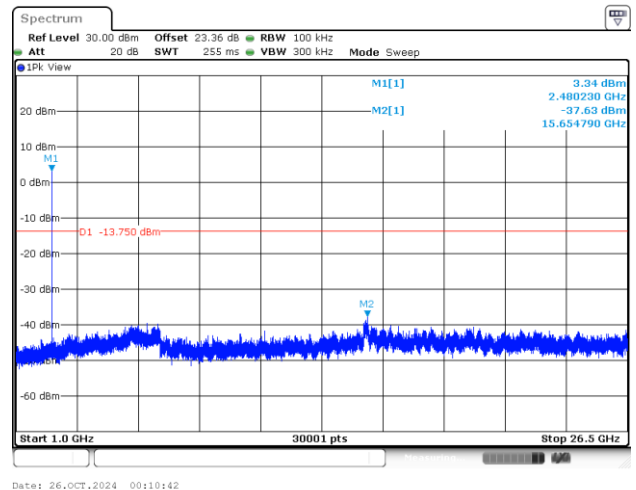
Low Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





Appendix B. AC Conducted Emission Test Results

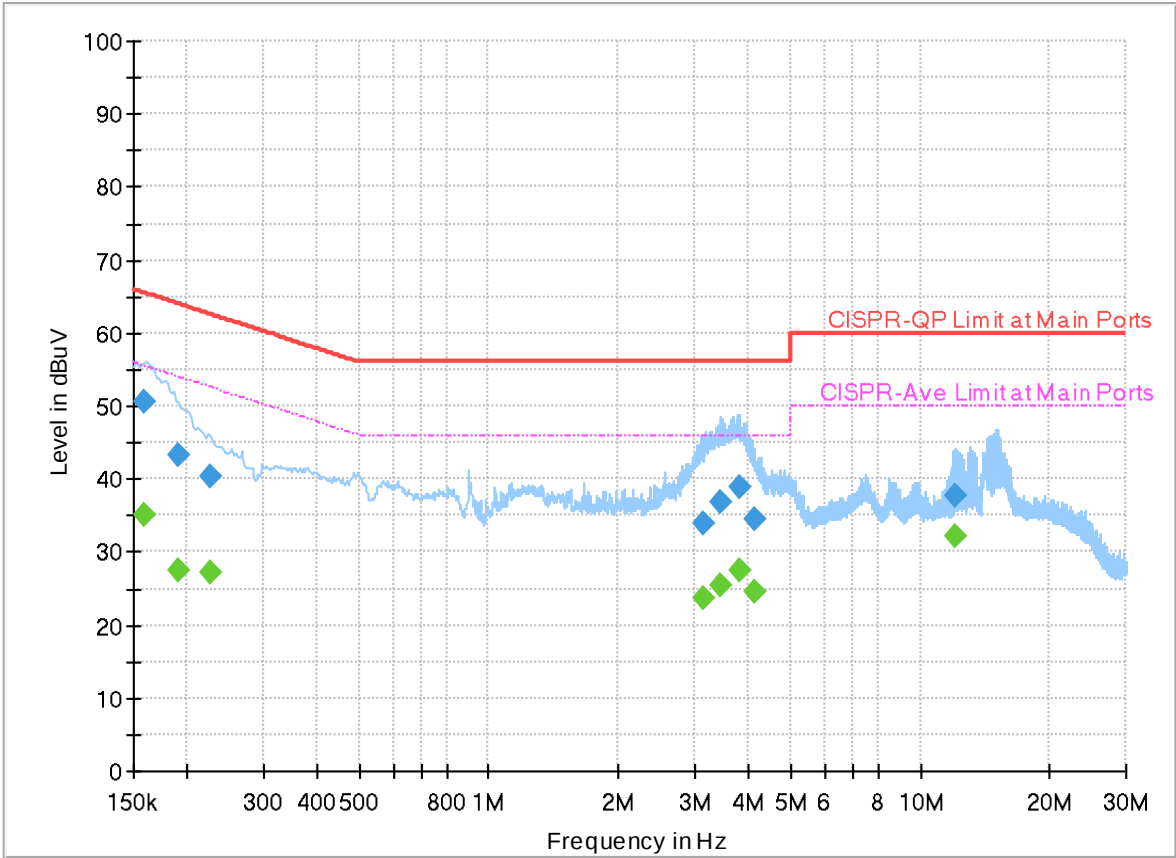
Test Engineer :	Louis Chung	Temperature :	23.7~26.1°C
		Relative Humidity :	43.8~45.5%

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

491243
Mode 1
Power from system
Line

Full Spectrum



Final_Result

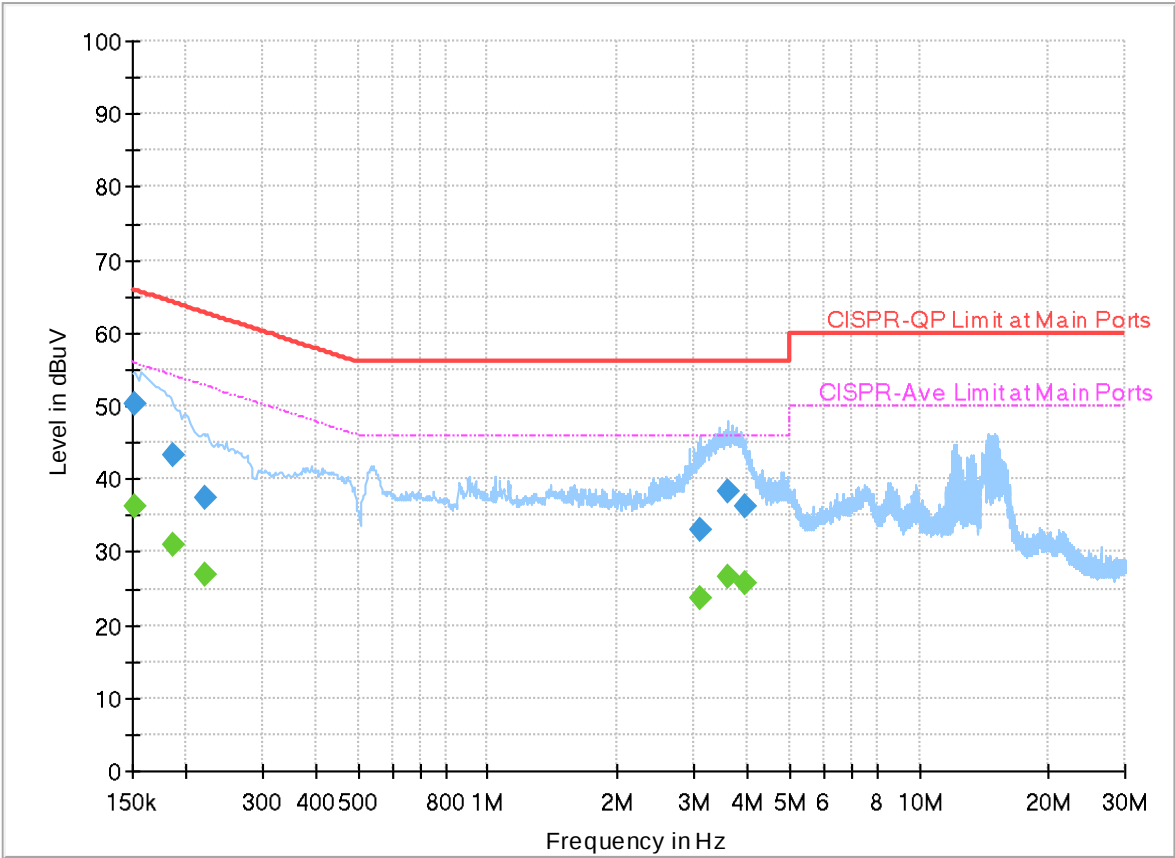
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.159450	50.44	---	65.49	15.05	L1	FLO	20.0
0.159450	---	35.03	55.49	20.46	L1	FLO	20.0
0.189870	43.27	---	64.04	20.77	L1	FLO	20.0
0.189870	---	27.42	54.04	26.62	L1	FLO	20.0
0.225330	40.27	---	62.62	22.35	L1	FLO	20.0
0.225330	---	27.09	52.62	25.53	L1	FLO	20.0
3.133680	33.78	---	56.00	22.22	L1	FLO	20.1
3.133680	---	23.56	46.00	22.44	L1	FLO	20.1
3.435900	36.88	---	56.00	19.12	L1	FLO	20.1
3.435900	---	25.44	46.00	20.56	L1	FLO	20.1
3.819120	39.03	---	56.00	16.97	L1	FLO	20.1
3.819120	---	27.36	46.00	18.64	L1	FLO	20.1
4.137000	34.41	---	56.00	21.59	L1	FLO	20.1
4.137000	---	24.66	46.00	21.34	L1	FLO	20.1
12.063750	37.68	---	60.00	22.32	L1	FLO	20.2
12.063750	---	32.02	50.00	17.98	L1	FLO	20.2

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

491243
Mode 1
Power from system
Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.152250	50.19	---	65.88	15.69	N	FLO	20.1
0.152250	---	36.30	55.88	19.58	N	FLO	20.1
0.186000	43.34	---	64.21	20.87	N	FLO	20.0
0.186000	---	31.13	54.21	23.08	N	FLO	20.0
0.219750	37.57	---	62.83	25.26	N	FLO	20.0
0.219750	---	26.99	52.83	25.84	N	FLO	20.0
3.119280	33.18	---	56.00	22.82	N	FLO	20.1
3.119280	---	23.61	46.00	22.39	N	FLO	20.1
3.611760	38.16	---	56.00	17.84	N	FLO	20.1
3.611760	---	26.48	46.00	19.52	N	FLO	20.1
3.952950	36.38	---	56.00	19.62	N	FLO	20.1
3.952950	---	25.67	46.00	20.33	N	FLO	20.1



Appendix C. Conducted Spurious Emission

Test Engineer :	Kai Liao, KenWu, and Leo Li	Temperature :	22.3~24.9°C
		Relative Humidity :	52.5~72.4%

<Ant. 1>

2.4GHz 2400~2483.5MHz

BLE (Band Edge)

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz		2323.26	-43.87	-22.67	-21.2	-48.13	3	1.26	0	0	P
		2323.39	-53.49	-12.29	-41.2	-57.75	3	1.26	0	0	A
	*	2402	9.52	-	-	5.24	3	1.28	0	0	P
	*	2402	8.61	-	-	4.33	3	1.28	0	0	A
BLE 1Mbps CH 19 2440MHz		2366	-46.16	-24.96	-21.2	-50.43	3	1.27	0	0	P
		2366	-53.97	-12.77	-41.2	-58.24	3	1.27	0	0	A
	*	2440	9.26	-	-	4.96	3	1.3	0	0	P
	*	2440	7.9	-	-	3.6	3	1.3	0	0	A
		2483.55	-47.91	-26.71	-21.2	-52.24	3	1.33	0	0	P
		2486.91	-58.78	-17.58	-41.2	-63.11	3	1.33	0	0	A
BLE 1Mbps CH 39 2480MHz	*	2480	9.86	-	-	5.53	3	1.33	0	0	P
	*	2480	7.71	-	-	3.38	3	1.33	0	0	A
		2484.16	-42.25	-21.05	-21.2	-46.58	3	1.33	0	0	P
		2483.52	-50.22	-9.02	-41.2	-54.55	3	1.33	0	0	A
Remark	1. No other spurious found.										
	2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz		2388	-43.43	-22.23	-21.2	-47.7	3	1.27	0	0	P
		2357.19	-52.87	-11.67	-41.2	-57.14	3	1.27	0	0	A
	*	2404	9.7	-	-	5.42	3	1.28	0	0	P
	*	2404	6.88	-	-	2.6	3	1.28	0	0	A
BLE 2Mbps CH 19 2440MHz		2386.16	-47.91	-26.71	-21.2	-52.18	3	1.27	0	0	P
		2373.14	-57.37	-16.17	-41.2	-61.64	3	1.27	0	0	A
	*	2440	9.54	-	-	5.24	3	1.3	0	0	P
	*	2440	7.93	-	-	3.63	3	1.3	0	0	A
		2483.55	-46.71	-25.51	-21.2	-51.04	3	1.33	0	0	P
		2483.5	-56.88	-15.68	-41.2	-61.21	3	1.33	0	0	A
BLE 2Mbps CH 38 2478MHz	*	2478	9.89	-	-	5.56	3	1.33	0	0	P
	*	2478	7.36	-	-	3.03	3	1.33	0	0	A
		2483.6	-42.14	-20.94	-21.2	-46.47	3	1.33	0	0	P
		2483.8	-50.44	-9.24	-41.2	-54.77	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz		2389.17	-44.43	-23.23	-21.2	-48.7	3	1.27	0	0	P
		2323.335	-53.16	-11.96	-41.2	-57.42	3	1.26	0	0	A
	*	2402	9.82	-	-	5.54	3	1.28	0	0	P
	*	2402	9.09	-	-	4.81	3	1.28	0	0	A
BLE 125kbps CH 19 2440MHz		2365.72	-45.92	-24.72	-21.2	-50.19	3	1.27	0	0	P
		2366.14	-54.08	-12.88	-41.2	-58.35	3	1.27	0	0	A
	*	2440	9.46	-	-	5.16	3	1.3	0	0	P
	*	2440	8.36	-	-	4.06	3	1.3	0	0	A
		2483.69	-48.32	-27.12	-21.2	-52.65	3	1.33	0	0	P
		2486.77	-59.32	-18.12	-41.2	-63.65	3	1.33	0	0	A
BLE 125kbps CH 39 2480MHz	*	2480	10.06	-	-	5.73	3	1.33	0	0	P
	*	2480	9.25	-	-	4.92	3	1.33	0	0	A
		2484.72	-41.97	-20.77	-21.2	-46.3	3	1.33	0	0	P
		2483.52	-50.35	-9.15	-41.2	-54.68	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz		2323.125	-44.25	-23.05	-21.2	-48.51	3	1.26	0	0	P
		2323.23	-53.06	-11.86	-41.2	-57.32	3	1.26	0	0	A
	*	2402	9.73	-	-	5.45	3	1.28	0	0	P
	*	2402	9.1	-	-	4.82	3	1.28	0	0	A
BLE 500kbps CH 19 2440MHz		2366	-45.91	-24.71	-21.2	-50.18	3	1.27	0	0	P
		2366.14	-54.41	-13.21	-41.2	-58.68	3	1.27	0	0	A
	*	2440	9.46	-	-	5.16	3	1.3	0	0	P
	*	2440	8.72	-	-	4.42	3	1.3	0	0	A
		2486	-49.08	-27.88	-21.2	-53.41	3	1.33	0	0	P
		2484.67	-59.08	-17.88	-41.2	-63.41	3	1.33	0	0	A
BLE 500kbps CH 39 2480MHz	*	2480	9.86	-	-	5.53	3	1.33	0	0	P
	*	2480	6.49	-	-	2.16	3	1.33	0	0	A
		2483.68	-40.63	-19.43	-21.2	-44.96	3	1.33	0	0	P
		2483.52	-50.35	-9.15	-41.2	-54.68	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



2.4GHz 2400~2483.5MHz

BLE (Harmonic)

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz		3202.6	-54.93	-33.73	-21.2	-60.52	3	2.59	0	0	P
		4804	-56.11	-34.91	-21.2	-61.5	3	2.39	0	0	P
		6405.2	-64.83	-43.63	-21.2	-70.81	3	2.98	0	0	P
		7206	-63.87	-42.67	-21.2	-69.82	3	2.95	0	0	P
BLE 1Mbps CH 19 2440MHz		3253.3	-59.4	-38.2	-21.2	-64.92	3	2.52	0	0	P
		4880	-54.63	-33.43	-21.2	-59.98	3	2.35	0	0	P
		6506.5	-65.15	-43.95	-21.2	-71.18	3	3.03	0	0	P
		7320	-64.81	-43.61	-21.2	-70.74	3	2.93	0	0	P
BLE 1Mbps CH 39 2480MHz		3306.6	-67.77	-46.57	-21.2	-73.19	3	2.42	0	0	P
		4960	-53.44	-32.24	-21.2	-58.9	3	2.46	0	0	P
		6613.2	-66.45	-45.25	-21.2	-72.49	3	3.04	0	0	P
		7440	-69.24	-48.04	-21.2	-75.24	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz		3205.3	-62.27	-41.07	-21.2	-67.86	3	2.59	0	0	P
		4808	-55.57	-34.37	-21.2	-60.97	3	2.4	0	0	P
		6410.5	-64.47	-43.27	-21.2	-70.48	3	3.01	0	0	P
		7212	-64.22	-43.02	-21.2	-70.16	3	2.94	0	0	P
BLE 2Mbps CH 19 2440MHz		3253.3	-60.86	-39.66	-21.2	-66.38	3	2.52	0	0	P
		4880	-54.88	-33.68	-21.2	-60.23	3	2.35	0	0	P
		6506.5	-64.28	-43.08	-21.2	-70.31	3	3.03	0	0	P
		7320	-65.19	-43.99	-21.2	-71.12	3	2.93	0	0	P
BLE 2Mbps CH 38 2478MHz		3303.9	-68.43	-47.23	-21.2	-73.85	3	2.42	0	0	P
		4956	-53.5	-32.3	-21.2	-58.95	3	2.45	0	0	P
		6607.8	-65.8	-44.6	-21.2	-71.81	3	3.01	0	0	P
		7434	-69.29	-48.09	-21.2	-75.29	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz		3202.6	-60.5	-39.3	-21.2	-66.09	3	2.59	0	0	P
		4804	-56.23	-35.03	-21.2	-61.62	3	2.39	0	0	P
		6405.2	-64.4	-43.2	-21.2	-70.38	3	2.98	0	0	P
		7206	-63.63	-42.43	-21.2	-69.58	3	2.95	0	0	P
BLE 125kbps CH 19 2440MHz		3253.3	-59.94	-38.74	-21.2	-65.46	3	2.52	0	0	P
		4880	-54.71	-33.51	-21.2	-60.06	3	2.35	0	0	P
		6506.5	-64.18	-42.98	-21.2	-70.21	3	3.03	0	0	P
		7320	-65.84	-44.64	-21.2	-71.77	3	2.93	0	0	P
BLE 125kbps CH 39 2480MHz		3306.6	-66.82	-45.62	-21.2	-72.24	3	2.42	0	0	P
		4960	-52.75	-31.55	-21.2	-58.21	3	2.46	0	0	P
		6613.2	-65.95	-44.75	-21.2	-71.99	3	3.04	0	0	P
		7440	-69.61	-48.41	-21.2	-75.61	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz		3202.6	-60.36	-39.16	-21.2	-65.95	3	2.59	0	0	P
		4804	-56.16	-34.96	-21.2	-61.55	3	2.39	0	0	P
		6405.2	-64.73	-43.53	-21.2	-70.71	3	2.98	0	0	P
		7206	-63.41	-42.21	-21.2	-69.36	3	2.95	0	0	P
BLE 500kbps CH 19 2440MHz		3253.3	-60.21	-39.01	-21.2	-65.73	3	2.52	0	0	P
		4880	-54.44	-33.24	-21.2	-59.79	3	2.35	0	0	P
		6506.5	-65.46	-44.26	-21.2	-71.49	3	3.03	0	0	P
		7320	-65.72	-44.52	-21.2	-71.65	3	2.93	0	0	P
BLE 500kbps CH 39 2480MHz		3306.6	-66.8	-45.6	-21.2	-72.22	3	2.42	0	0	P
		4960	-52.96	-31.76	-21.2	-58.42	3	2.46	0	0	P
		6613.2	-66.08	-44.88	-21.2	-72.12	3	3.04	0	0	P
		7440	-68.11	-46.91	-21.2	-74.11	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission above 18GHz****BLE (SHF)**

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps SHF		23817	-59.92	-38.72	-21.2	-72.23	3	9.31	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission below 1GHz****BLE (LF)**

BLE Ant. 1	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps LF		31.94	-85.69	-30.49	-55.2	-93.6	3	0.19	0	4.7	P
		121.18	-85.66	-33.96	-51.7	-93.7	3	0.28	0	4.7	P
		283.17	-84.87	-35.67	-49.2	-93.05	3	0.41	0	4.7	P
		488.81	-83.79	-34.59	-49.2	-92.08	3	0.55	0	4.7	P
		826.37	-79.67	-30.47	-49.2	-88.27	3	0.73	0	4.7	P
		903	-78.5	-29.3	-49.2	-87.07	3	0.77	0	4.7	P
Remark	1. No other spurious found. 2. All results are PASS against limit line.										



<Ant. 2>

2.4GHz 2400~2483.5MHz

BLE (Band Edge)

BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz		2322.61	-44.23	-23.03	-21.2	-48.49	3	1.26	0	0	P
		2321.96	-53.02	-11.82	-41.2	-57.28	3	1.26	0	0	A
	*	2402	9.43	-	-	5.15	3	1.28	0	0	P
	*	2402	8.86	-	-	4.58	3	1.28	0	0	A
BLE 1Mbps CH 19 2440MHz		2365.58	-46.17	-24.97	-21.2	-50.44	3	1.27	0	0	P
		2365.3	-55.78	-14.58	-41.2	-60.05	3	1.27	0	0	A
	*	2440	9.13	-	-	4.83	3	1.3	0	0	P
	*	2440	8.62	-	-	4.32	3	1.3	0	0	A
		2484.53	-48.82	-27.62	-21.2	-53.15	3	1.33	0	0	P
		2484.67	-58.79	-17.59	-41.2	-63.12	3	1.33	0	0	A
BLE 1Mbps CH 39 2480MHz	*	2480	9.92	-	-	5.59	3	1.33	0	0	P
	*	2480	9.33	-	-	5	3	1.33	0	0	A
		2485.44	-40.93	-19.73	-21.2	-45.26	3	1.33	0	0	P
		2483.56	-49.81	-8.61	-41.2	-54.14	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz		2389.3	-43.2	-22	-21.2	-47.47	3	1.27	0	0	P
		2356.28	-53.37	-12.17	-41.2	-57.63	3	1.26	0	0	A
	*	2404	9.46	-	-	5.18	3	1.28	0	0	P
	*	2404	8.08	-	-	3.8	3	1.28	0	0	A
BLE 2Mbps CH 19 2440MHz		2387.98	-48.47	-27.27	-21.2	-52.74	3	1.27	0	0	P
		2359.98	-57.54	-16.34	-41.2	-61.81	3	1.27	0	0	A
	*	2440	9.18	-	-	4.88	3	1.3	0	0	P
	*	2440	7.57	-	-	3.27	3	1.3	0	0	A
		2483.9	-47.72	-26.52	-21.2	-52.05	3	1.33	0	0	P
		2483.5	-56.56	-15.36	-41.2	-60.89	3	1.33	0	0	A
BLE 2Mbps CH 38 2478MHz	*	2478	9.84	-	-	5.51	3	1.33	0	0	P
	*	2478	8.26	-	-	3.93	3	1.33	0	0	A
		2483.52	-41.43	-20.23	-21.2	-45.76	3	1.33	0	0	P
		2483.68	-49.9	-8.7	-41.2	-54.23	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz		2322.285	-43.89	-22.69	-21.2	-48.15	3	1.26	0	0	P
		2322.18	-53.43	-12.23	-41.2	-57.69	3	1.26	0	0	A
	*	2402	9.57	-	-	5.29	3	1.28	0	0	P
	*	2402	8.92	-	-	4.64	3	1.28	0	0	A
BLE 125kbps CH 19 2440MHz		2364.04	-46.38	-25.18	-21.2	-50.65	3	1.27	0	0	P
		2365.44	-55.96	-14.76	-41.2	-60.23	3	1.27	0	0	A
	*	2440	9.54	-	-	5.24	3	1.3	0	0	P
	*	2440	8.79	-	-	4.49	3	1.3	0	0	A
		2489.64	-49.46	-28.26	-21.2	-53.79	3	1.33	0	0	P
		2490.62	-59.36	-18.16	-41.2	-63.69	3	1.33	0	0	A
BLE 125kbps CH 39 2480MHz	*	2480	10.04	-	-	5.71	3	1.33	0	0	P
	*	2480	9.3	-	-	4.97	3	1.33	0	0	A
		2483.56	-41.08	-19.88	-21.2	-45.41	3	1.33	0	0	P
		2483.52	-50.32	-9.12	-41.2	-54.65	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz		2345.49	-44.7	-23.5	-21.2	-48.96	3	1.26	0	0	P
		2321.97	-54.03	-12.83	-41.2	-58.29	3	1.26	0	0	A
	*	2402	9.39	-	-	5.11	3	1.28	0	0	P
	*	2402	8.89	-	-	4.61	3	1.28	0	0	A
BLE 500kbps CH 19 2440MHz		2365.44	-46.31	-25.11	-21.2	-50.58	3	1.27	0	0	P
		2365.58	-56.22	-15.02	-41.2	-60.49	3	1.27	0	0	A
	*	2440	9.2	-	-	4.9	3	1.3	0	0	P
	*	2440	8.65	-	-	4.35	3	1.3	0	0	A
		2484.04	-49.28	-28.08	-21.2	-53.61	3	1.33	0	0	P
		2485.79	-59.15	-17.95	-41.2	-63.48	3	1.33	0	0	A
BLE 500kbps CH 39 2480MHz	*	2480	10.06	-	-	5.73	3	1.33	0	0	P
	*	2480	9.32	-	-	4.99	3	1.33	0	0	A
		2485.12	-42.24	-21.04	-21.2	-46.57	3	1.33	0	0	P
		2483.52	-50.5	-9.3	-41.2	-54.83	3	1.33	0	0	A
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



2.4GHz 2400~2483.5MHz

BLE (Harmonic)

BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps CH 00 2402MHz		3202.6	-56.1	-34.9	-21.2	-61.69	3	2.59	0	0	P
		4804	-54.54	-33.34	-21.2	-59.93	3	2.39	0	0	P
		6405.2	-64.04	-42.84	-21.2	-70.02	3	2.98	0	0	P
		7206	-64.42	-43.22	-21.2	-70.37	3	2.95	0	0	P
BLE 1Mbps CH 19 2440MHz		3253.3	-60.9	-39.7	-21.2	-66.42	3	2.52	0	0	P
		4880	-53.85	-32.65	-21.2	-59.2	3	2.35	0	0	P
		6506.5	-62.62	-41.42	-21.2	-68.65	3	3.03	0	0	P
		7320	-65.94	-44.74	-21.2	-71.87	3	2.93	0	0	P
BLE 1Mbps CH 39 2480MHz		3306.6	-58.39	-37.19	-21.2	-63.81	3	2.42	0	0	P
		4960	-54.44	-33.24	-21.2	-59.9	3	2.46	0	0	P
		6613.2	-65.33	-44.13	-21.2	-71.37	3	3.04	0	0	P
		7440	-67.73	-46.53	-21.2	-73.73	3	3	0	0	P
Remark	1. No other spurious found.										
	2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 2Mbps CH 01 2404MHz		3205.3	-58.68	-37.48	-21.2	-64.27	3	2.59	0	0	P
		4808	-55.31	-34.11	-21.2	-60.71	3	2.4	0	0	P
		6410.5	-63.03	-41.83	-21.2	-69.04	3	3.01	0	0	P
		7212	-64.64	-43.44	-21.2	-70.58	3	2.94	0	0	P
BLE 2Mbps CH 19 2440MHz		3253.3	-61.97	-40.77	-21.2	-67.49	3	2.52	0	0	P
		4880	-54.82	-33.62	-21.2	-60.17	3	2.35	0	0	P
		6506.5	-63.48	-42.28	-21.2	-69.51	3	3.03	0	0	P
		7320	-67.17	-45.97	-21.2	-73.1	3	2.93	0	0	P
BLE 2Mbps CH 38 2478MHz		3303.9	-67.09	-45.89	-21.2	-72.51	3	2.42	0	0	P
		4956	-54.82	-33.62	-21.2	-60.27	3	2.45	0	0	P
		6607.8	-65.51	-44.31	-21.2	-71.52	3	3.01	0	0	P
		7434	-70.22	-49.02	-21.2	-76.22	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 125kbps CH 00 2402MHz		3202.6	-60.12	-38.92	-21.2	-65.71	3	2.59	0	0	P
		4804	-55.12	-33.92	-21.2	-60.51	3	2.39	0	0	P
		6405.2	-63.53	-42.33	-21.2	-69.51	3	2.98	0	0	P
		7206	-64.34	-43.14	-21.2	-70.29	3	2.95	0	0	P
BLE 125kbps CH 19 2440MHz		3253.3	-61.24	-40.04	-21.2	-66.76	3	2.52	0	0	P
		4880	-54.88	-33.68	-21.2	-60.23	3	2.35	0	0	P
		6506.5	-63.62	-42.42	-21.2	-69.65	3	3.03	0	0	P
		7320	-66.67	-45.47	-21.2	-72.6	3	2.93	0	0	P
BLE 125kbps CH 39 2480MHz		3306.6	-68.91	-47.71	-21.2	-74.33	3	2.42	0	0	P
		4960	-54.64	-33.44	-21.2	-60.1	3	2.46	0	0	P
		6613.2	-64.94	-43.74	-21.2	-70.98	3	3.04	0	0	P
		7440	-70.6	-49.4	-21.2	-76.6	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										



BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 500kbps CH 00 2402MHz		3202.59	-60.59	-39.39	-21.2	-66.18	3	2.59	0	0	P
		4804	-55.33	-34.13	-21.2	-60.72	3	2.39	0	0	P
		6405.2	-63.73	-42.53	-21.2	-69.71	3	2.98	0	0	P
		7206	-64.78	-43.58	-21.2	-70.73	3	2.95	0	0	P
BLE 500kbps CH 19 2440MHz		3253.3	-60.84	-39.64	-21.2	-66.36	3	2.52	0	0	P
		4880	-54.65	-33.45	-21.2	-60	3	2.35	0	0	P
		6506.5	-64.19	-42.99	-21.2	-70.22	3	3.03	0	0	P
		7320	-67.67	-46.47	-21.2	-73.6	3	2.93	0	0	P
BLE 500kbps CH 39 2480MHz		3306.6	-58.13	-36.93	-21.2	-63.55	3	2.42	0	0	P
		4960	-54.29	-33.09	-21.2	-59.75	3	2.46	0	0	P
		6613.2	-65.56	-44.36	-21.2	-71.6	3	3.04	0	0	P
		7440	-70.59	-49.39	-21.2	-76.59	3	3	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission above 18GHz****BLE (SHF)**

BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps SHF		23719	-61.4	-40.2	-21.2	-73.78	3	9.38	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

**Emission below 1GHz****BLE (LF)**

BLE Ant. 2	Note	Frequency (MHz)	Level (dBm)	Margin (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Average (P/A)
BLE 1Mbps LF		79.47	-87.5	-32.3	-55.2	-95.51	3	0.31	0	4.7	P
		176.47	-86.54	-34.84	-51.7	-94.63	3	0.39	0	4.7	P
		278.32	-86.43	-37.23	-49.2	-94.59	3	0.46	0	4.7	P
		540.22	-86.07	-36.87	-49.2	-94.51	3	0.74	0	4.7	P
		827.34	-79.58	-30.38	-49.2	-88.18	3	0.9	0	4.7	P
		903	-79.51	-30.31	-49.2	-88.08	3	0.87	0	4.7	P
Remark	1. No other spurious found. 2. All results are PASS against limit line.										



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 Margin limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for conducted spurious emission is shown as below:

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	MIMO	Groun ding	Peak
					Line	Level	Factor	Loss	Factor	Factor	Avg.
		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
BLE CH 00 2402MHz		2390	-45.8	-24.6	-21.2	-48.44	2	0.64	0	0	P
		2390	-59.91	-18.71	-41.2	-62.58	2	0.67	0	0	A

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBm) = Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
3. Margin Limit(dB) = Level(dBm) – Limit Line(dBm)

For Peak Limit @ 2390MHz:

1. Level(dBm)
= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
= 2(dBi) + 0.64(dB) - 48.44(dBm)
= -45.8 (dBm)
2. Margin Limit(dB)
= Level(dBm) – Limit Line(dBm)
= -45.8(dBm) + 21.2(dBm)
= -24.6(dB)

For Average Limit @ 2390MHz:

1. Level(dBm)
= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)
= 2(dBi) + 0.67(dB) - 62.58(dBm)
= -59.91 (dBm)
2. Margin Limit(dB)
= Level(dBm) – Limit Line(dBm)
= -59.91(dBm) + 41.2(dBm)
= -18.71(dB)

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



Appendix D. Conducted Spurious Emission Plots

Test Engineer :	Kai Liao, KenWu, and Leo Li	Temperature :	22.3~24.9°C
		Relative Humidity :	52.5~72.4%

Note symbol

-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz

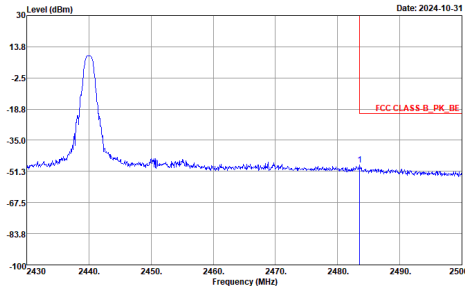
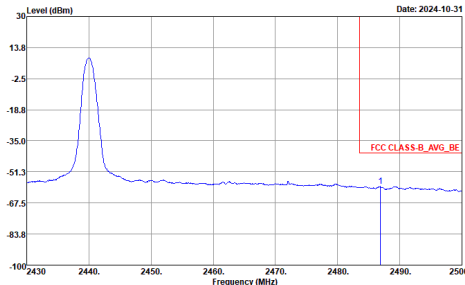
BLE (Band Edge)

Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 1.100kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 1.100kHz Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:3000.000KHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:1.100KHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:1.100KHz Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VEW:1.100kHz Detector : Peak	Left Blank



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH39 2480MHz	
	CSE	Fundamental
Peak	Level (dBm) Date: 2024-10-31 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Level (dBm) Date: 2024-10-31 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	Level (dBm) Date: 2024-10-31 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.100kHz Detector : Peak	Level (dBm) Date: 2024-10-31 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.100kHz Detector : Peak



Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH01 2404MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.200KHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.200KHz Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak	Left Blank
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 1.250KHz Detector : Peak	Left Blank



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH38 2478MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak



Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.100KHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.100KHz Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.100kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_AVG_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.100kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	Left Blank
Average	Site : TH05-HY Condition : FCC CLASS-B AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 0.100kHz Detector : Peak	Left Blank



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH39 2480MHz	
	CSE	Fundamental
Peak	Level (dBm) Date: 2024-10-31 Frequency (MHz) Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak	Level (dBm) Date: 2024-10-31 Frequency (MHz) Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak
Average	Level (dBm) Date: 2024-10-31 Frequency (MHz) Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 0.100KHz Detector : Peak	Level (dBm) Date: 2024-10-31 Frequency (MHz) Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 0.100KHz Detector : Peak

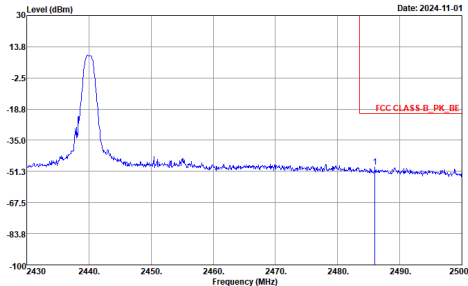
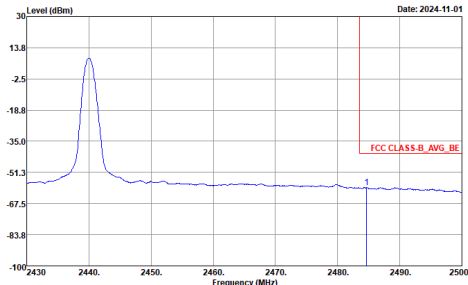


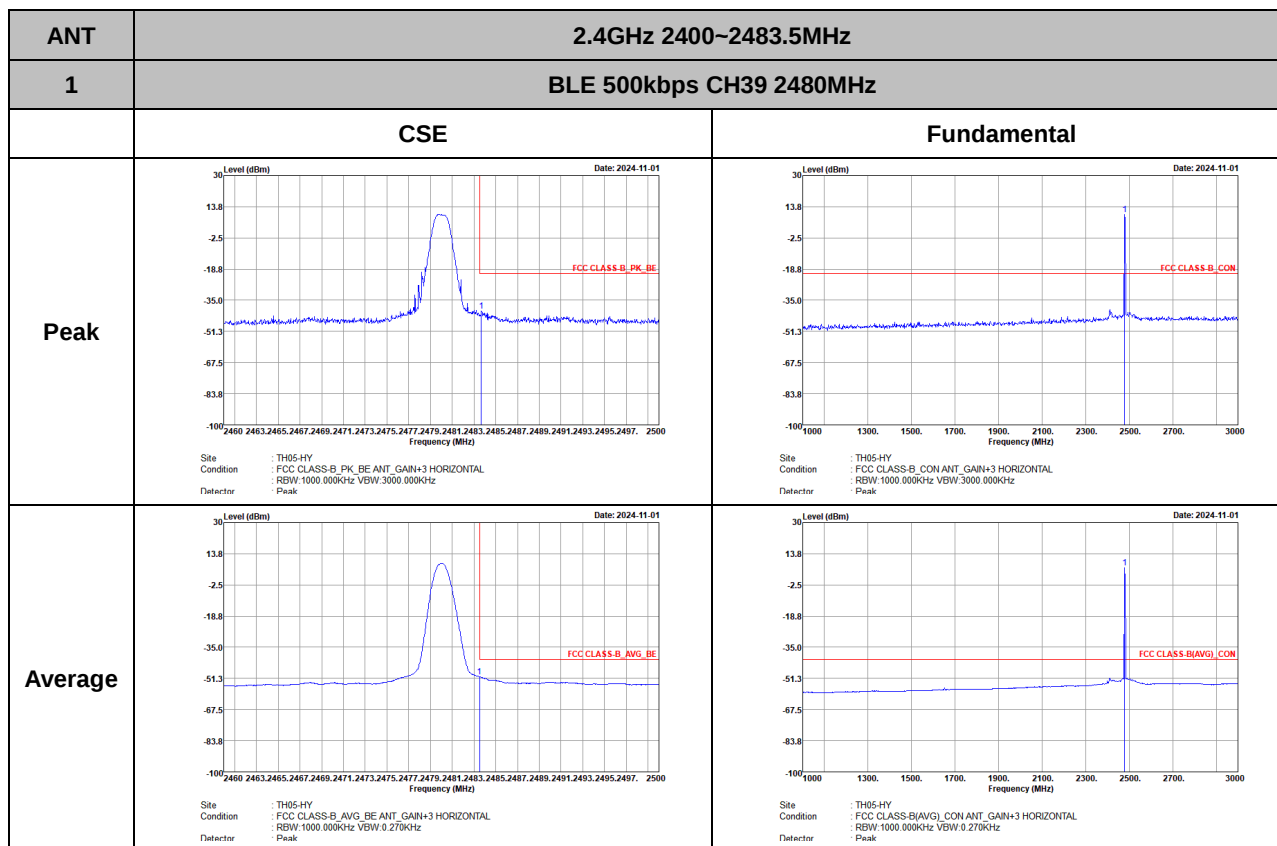
Ant.	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 0.270kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 0.270kHz Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak



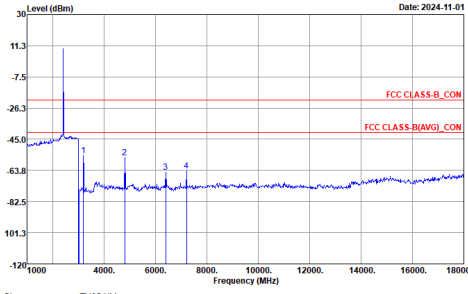
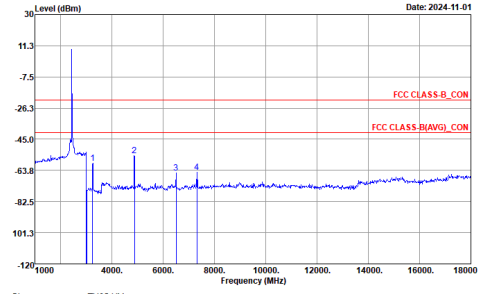
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:3000.000kHz Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:0.270kHz Peak	Left Blank



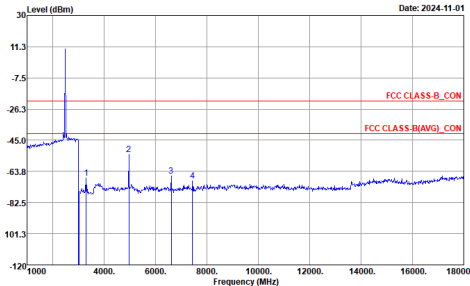


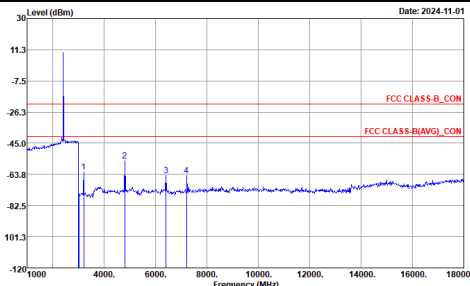
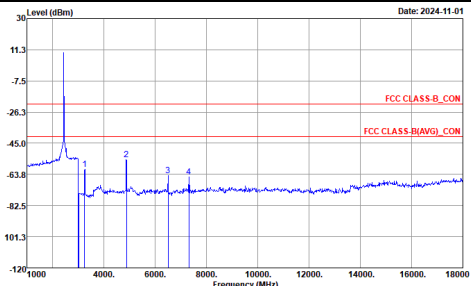
2.4GHz 2400~2483.5MHz

BLE (Harmonic)

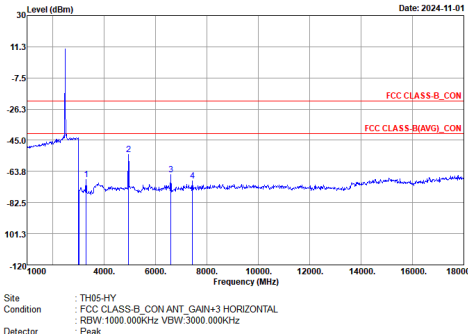
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH00 2402MHz	BLE 1Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz Detector : Peak

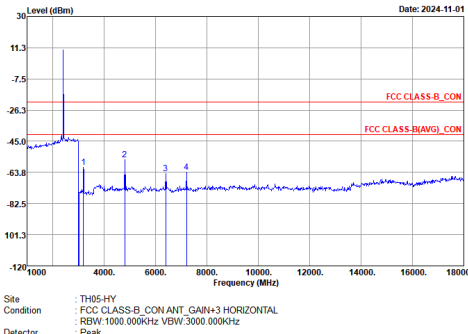
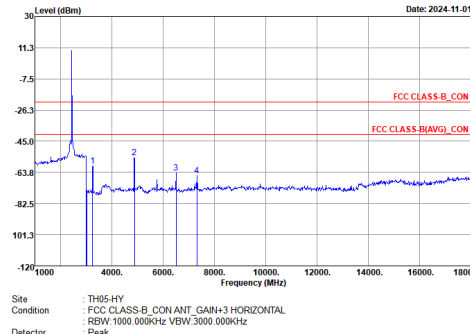


ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Blank

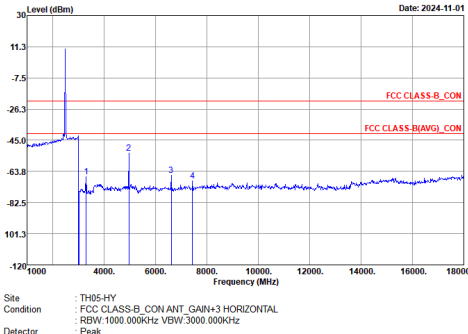
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH01 2404MHz	BLE 2Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak

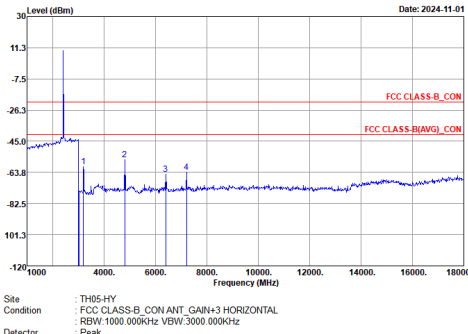
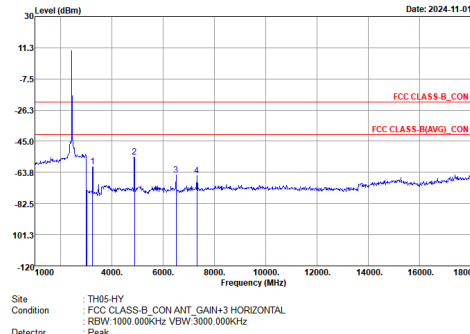


ANT	2.4GHz 2400~2483.5MHz	
1	BLE 2Mbps CH38 2478MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	Blank

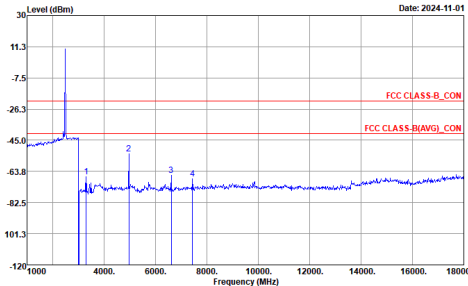
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH00 2402MHz	BLE 125kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak



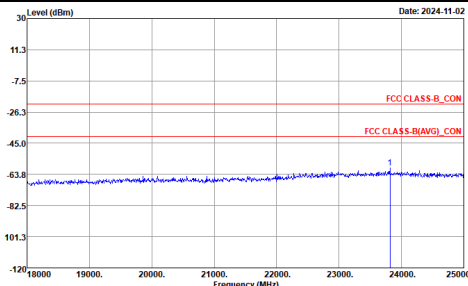
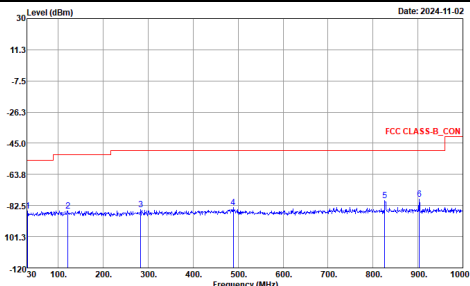
ANT	2.4GHz 2400~2483.5MHz	
1	BLE 125kbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Blank

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH00 2402MHz	BLE 500kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak



ANT	2.4GHz 2400~2483.5MHz	
1	BLE 500kbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	Blank

Emission above 18GHz and below 1GHz

ANT	2.4GHz 2400~2483.5MHz	
1	BLE 1Mbps SHF	BLE 1Mbps LF
	Emission above 18GHz	Emission below 1GHz
Peak	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 120.000kHz VBW: 300.000kHz Detector : Peak



2.4GHz 2400~2483.5MHz

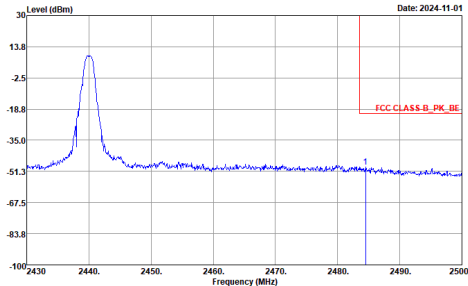
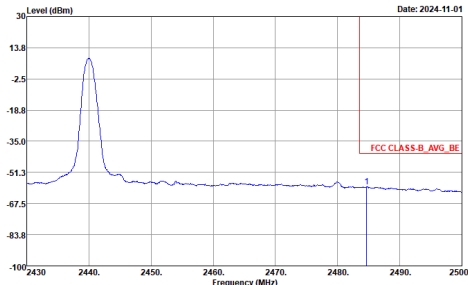
BLE (Band Edge)

Ant.	2.4GHz 2400~2483.5MHz	
2	BLE1Mbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.100kHz Detector : Peak	Left Blank



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps CH39 2480MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.100kHz Peak

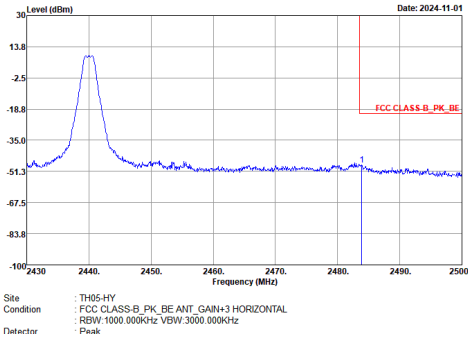
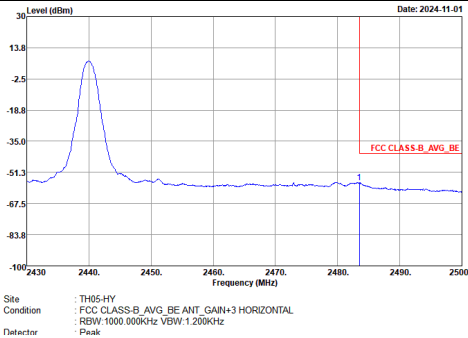


Ant.	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH01 2404MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B, PK, BE ANT. GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B, CON ANT. GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B, AVG, BE ANT. GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG), CON ANT. GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.200kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH19 2440MHz - R	
	CSE	Fundamental
Peak		Left Blank
Average		Left Blank



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH38 2478MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz Detector : Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VBW:1.200kHz Detector : Peak

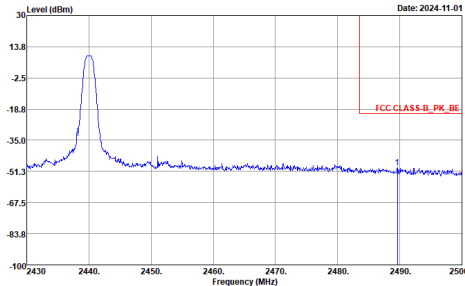
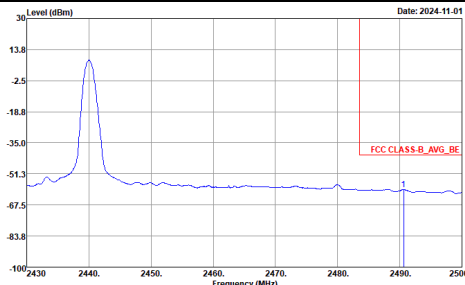


Ant.	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.100KHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.100KHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:3000.000KHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:0.100KHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VEW:0.100KHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT. GAIN+3 HORIZONTAL RBW: 1000.000KHz VEW: 3000.000KHz Detector : Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B AVG_BE ANT. GAIN+3 HORIZONTAL RBW: 1000.000KHz VEW: 0.100KHz Detector : Peak	Left Blank



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH39 2480MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:0.100kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VEW:0.100kHz Peak

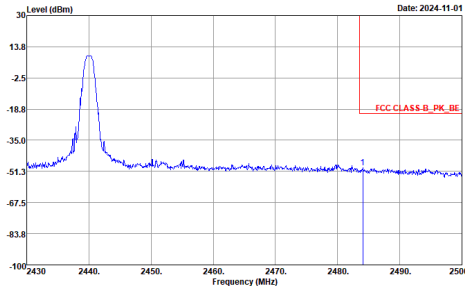
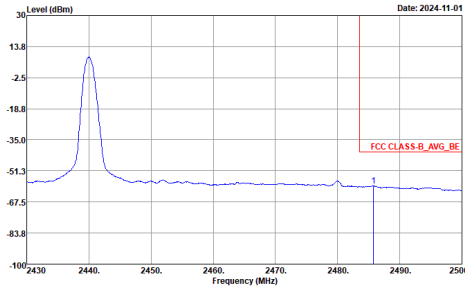


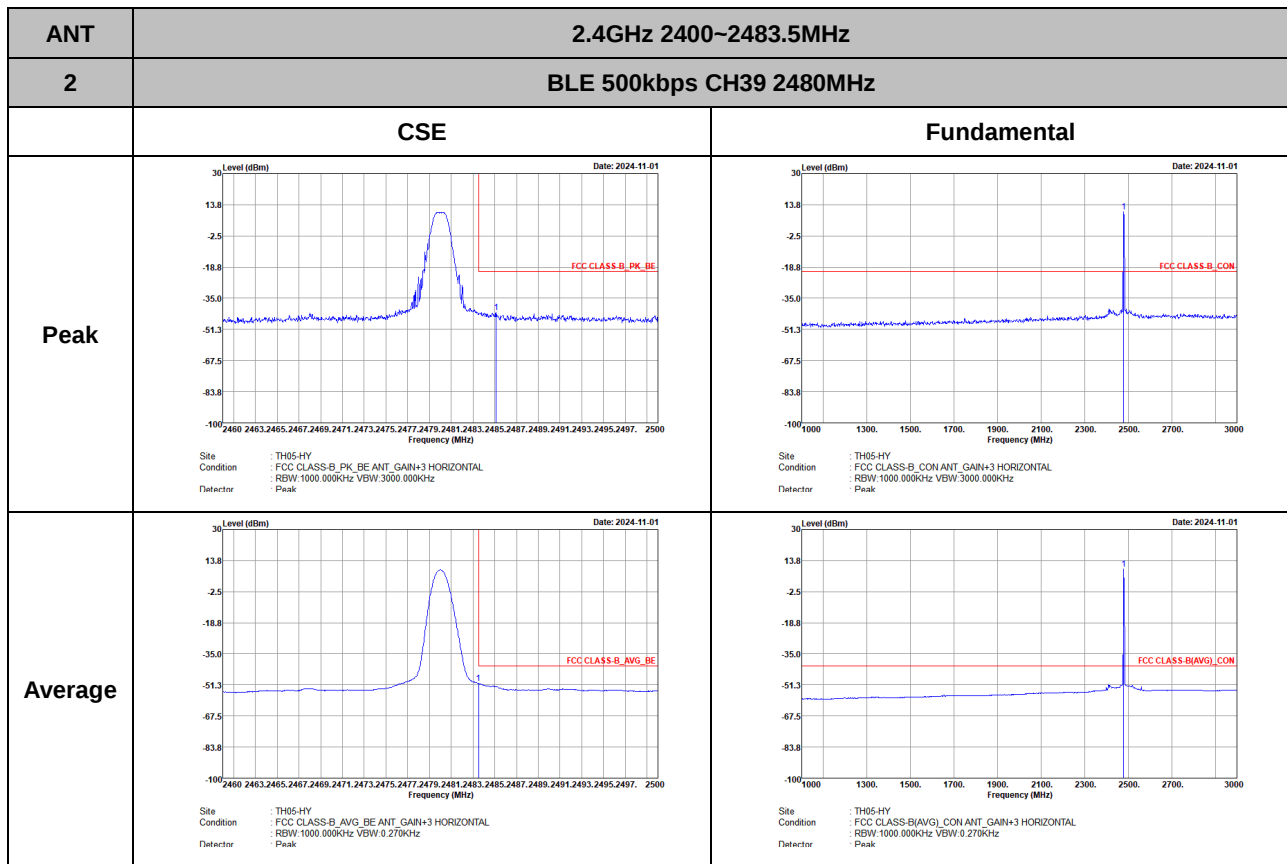
Ant.	2.4GHz 2400~2483.5MHz	
2	BLE 500kbps CH00 2402MHz	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 500kbps CH19 2440MHz - L	
	CSE	Fundamental
Peak	Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz Peak
Average	Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak	Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000kHz VBW:0.270kHz Peak



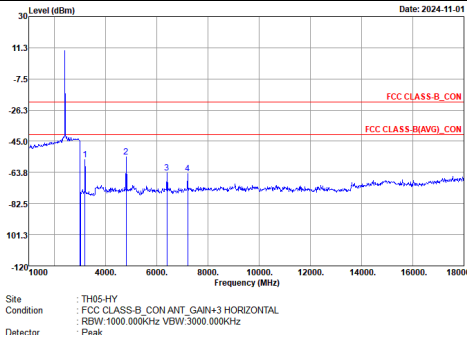
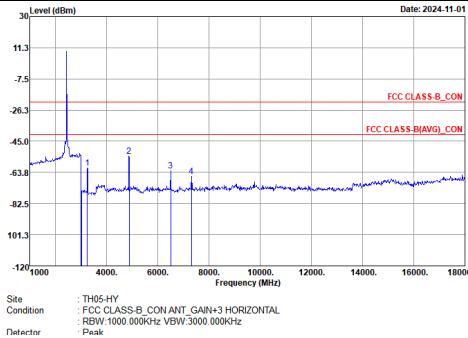
ANT	2.4GHz 2400~2483.5MHz	
2	BLE 500kbps CH19 2440MHz - R	
	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_PK_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 3000.000KHz Detector : Peak	Left Blank
Average	 Site : TH05-HY Condition : FCC CLASS-B_AVG_BE ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VBW: 0.270KHz Detector : Peak	Left Blank

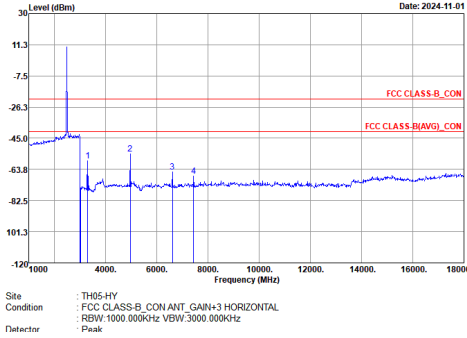




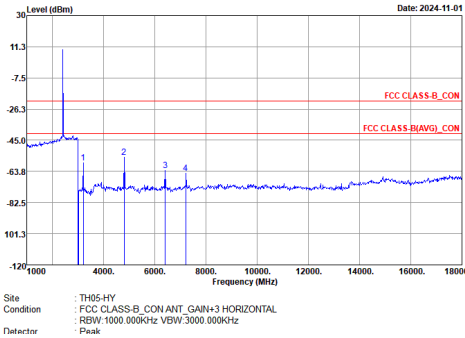
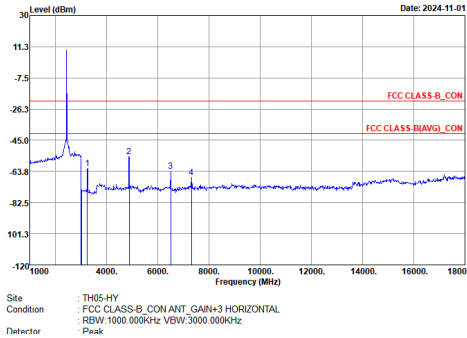
2.4GHz 2400~2483.5MHz

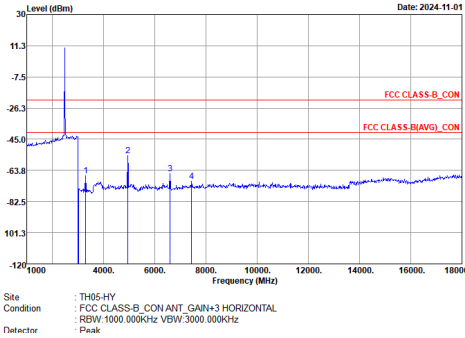
BLE (Harmonic)

ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps CH00 2402MHz	BLE 1Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VSW: 3000.000KHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VSW: 3000.000KHz Detector : Peak

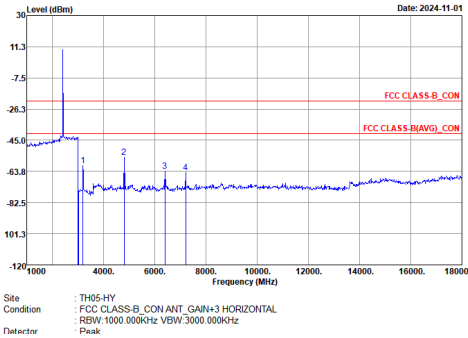
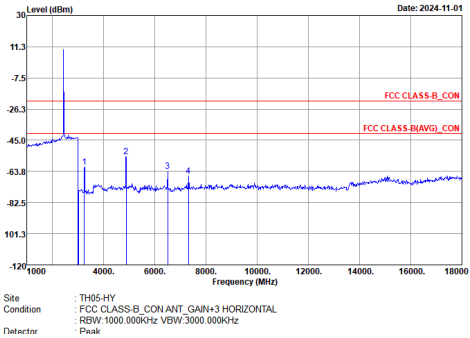
ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW: 1000.000KHz VSW: 3000.000KHz Detector : Peak	Blank

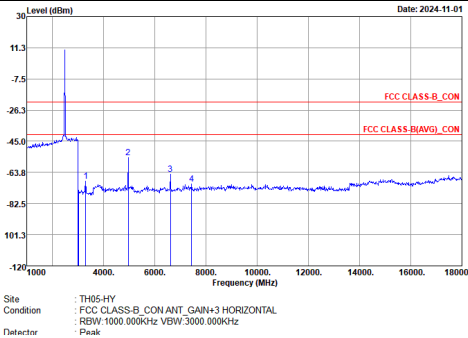


ANT	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH02 2404MHz	BLE 2Mbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak

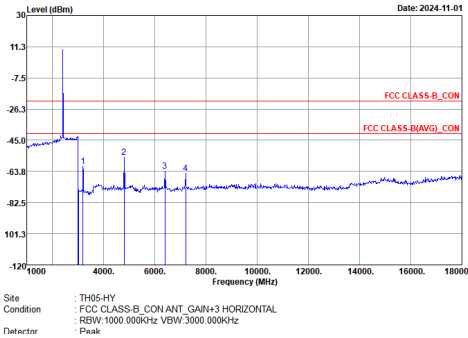
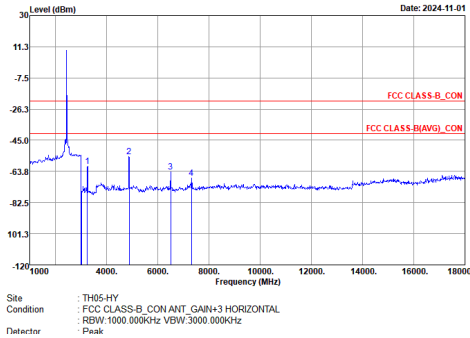
ANT	2.4GHz 2400~2483.5MHz	
2	BLE 2Mbps CH38 2478MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VEW:3000.000kHz Detector : Peak	Blank

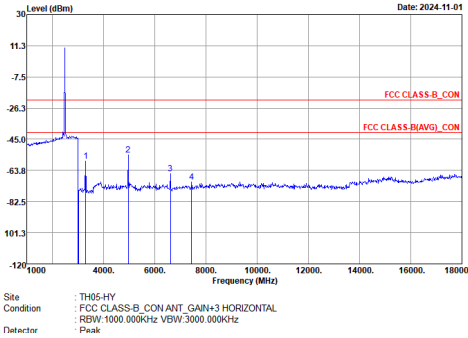


ANT	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH00 2402MHz	BLE 125kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 1000.000kHz VSW: 3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 1000.000kHz VSW: 3000.000kHz Detector : Peak

ANT	2.4GHz 2400~2483.5MHz	
2	BLE 125kbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B, CON ANT, GAIN+3 HORIZONTAL RBW: 1000.000kHz VSW: 3000.000kHz Detector : Peak	Blank



ANT	2.4GHz 2400~2483.5MHz	
2	BLE 500kbps CH00 2402MHz	BLE 500kbps CH19 2440MHz
	Harmonic	Harmonic
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VSW:3000.000kHz Detector : Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VSW:3000.000kHz Detector : Peak

ANT	2.4GHz 2400~2483.5MHz	
2	BLE 500kbps CH39 2480MHz	
	Harmonic	
Peak Average	 Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL RBW:1000.000kHz VSW:3000.000kHz Detector : Peak	Blank



Emission above 18GHz and below 1GHz

ANT	2.4GHz 2400~2483.5MHz	
2	BLE 1Mbps SHF	BLE 1Mbps LF
	Emission above 18GHz	Emission below 1GHz
Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:1000.000KHz VSW:3000.000KHz Peak	Site : TH05-HY Condition : FCC CLASS-B_CON ANT_GAIN+3 HORIZONTAL Detector : RBW:120.000KHz VSW:500.000KHz Peak



Appendix E. Cabinet Radiated Spurious Emission

Test Engineer :	Jack Cheng, Ray Lung, Sky Chang and Jesse Fan	Temperature :	18.7~25.2°C
		Relative Humidity :	51.0~72.0%

Note symbol

-L	Low channel location
-R	High channel location



<Ant. 1>

E1.1. Cabinet Radiated Spurious Emission Test Modes

<1Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	1Mbps	-	-
Mode 13	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	1Mbps	-	SHF
Mode 14	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	1Mbps	-	LF

<2Mbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 4	2400-2483.5	1	Bluetooth-LE GFSK	01	2404	2Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	2Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth-LE GFSK	38	2478	2Mbps	-	-

<125kbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	125 kbps	-	-
Mode 8	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	125 kbps	-	-
Mode 9	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	125 kbps	-	-
-	-	-	-	-	2404	-	-	-

<500kbps>

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 10	2400-2483.5	1	Bluetooth-LE GFSK	00	2402	500 kbps	-	-
Mode 11	2400-2483.5	1	Bluetooth-LE GFSK	19	2440	500 kbps	-	-
Mode 12	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500 kbps	-	-

E1.2. Summary of each worse mode

<1Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth-LE GFSK	00	2335.30	43.92	54.00	-10.08	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	43.85	74.00	-30.15	V	Peak	Pass	-	Harmonic
2	Bluetooth-LE GFSK	19	2366.03	43.04	54.00	-10.96	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	38.87	54.00	-15.13	V	Avg.	Pass	-	Harmonic
3	Bluetooth-LE GFSK	39	2483.52	45.42	54.00	-8.58	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	38.77	54.00	-15.23	H	Avg.	Pass	-	Harmonic
13	SHF	39	23634.16	39.96	74.00	-34.04	H	Peak	Pass	-	SHF
14	LF	39	899.12	40.39	46.00	-5.61	H	Peak	Pass	-	LF

<2Mbps>

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
4	Bluetooth-LE GFSK	01	2389.52	43.03	54.00	-10.97	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	01	7212.00	48.44	74.00	-25.56	H	Peak	Pass	-	Harmonic
5	Bluetooth-LE GFSK	19	2359.79	41.51	54.00	-12.49	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	39.08	54.00	-14.92	H	Avg.	Pass	-	Harmonic
6	Bluetooth-LE GFSK	38	2483.54	43.89	54.00	-10.11	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	38	7434.00	39.21	54.00	-14.79	H	Avg.	Pass	-	Harmonic

**<125kbps>**

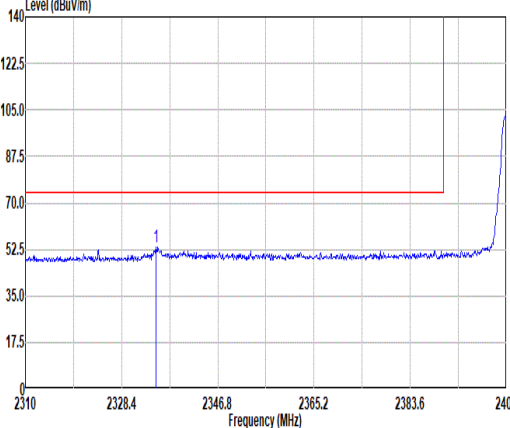
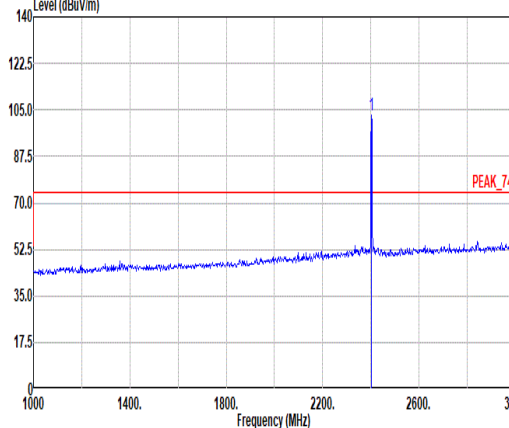
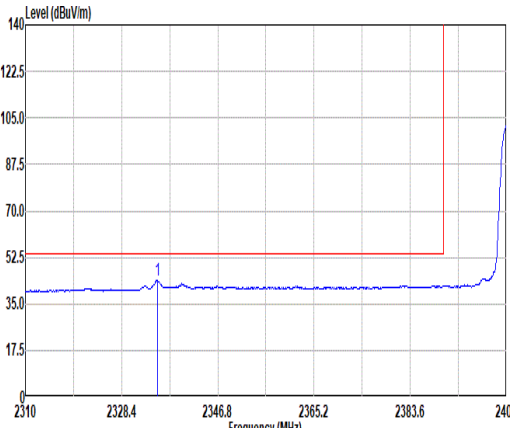
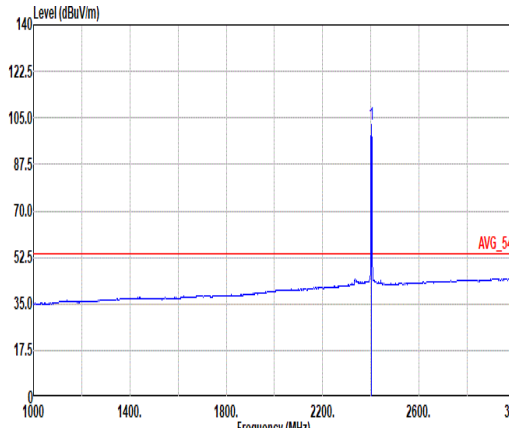
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
7	Bluetooth-LE GFSK	00	2323.34	42.22	54.00	-11.78	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	7206.00	48.20	74.00	-25.80	H	Peak	Pass	-	Harmonic
8	Bluetooth-LE GFSK	19	2366.03	42.70	54.00	-11.30	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	6390.00	54.06	74.00	-19.94	V	Peak	Pass	-	Harmonic
9	Bluetooth-LE GFSK	39	2483.52	44.89	54.00	-9.11	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	39.28	54.00	-14.72	V	Avg.	Pass	-	Harmonic

<500kbps>

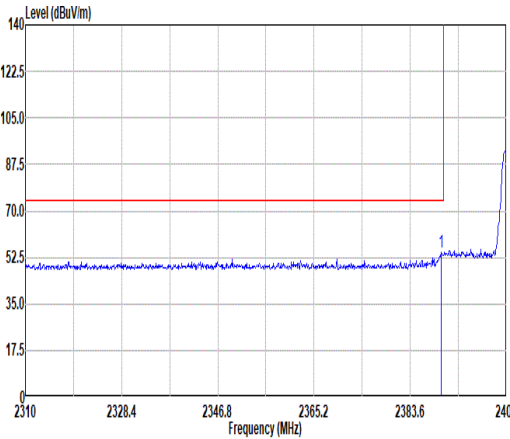
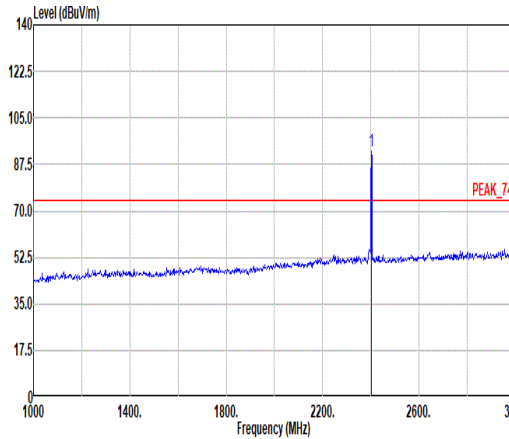
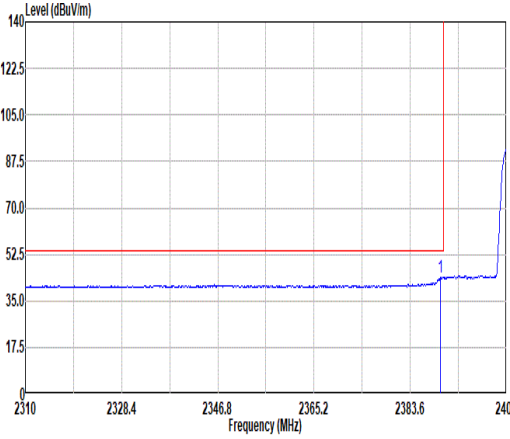
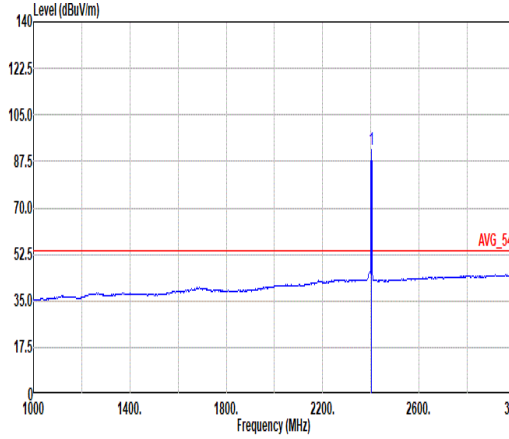
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10	Bluetooth-LE GFSK	00	2389.76	42.23	54.00	-11.77	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	00	4804.00	47.05	74.00	-26.95	V	Peak	Pass	-	Harmonic
11	Bluetooth-LE GFSK	19	2366.16	42.74	54.00	-11.26	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	19	7320.00	39.21	54.00	-14.79	H	Avg.	Pass	-	Harmonic
12	Bluetooth-LE GFSK	39	2483.52	45.09	54.00	-8.91	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	38.90	54.00	-15.10	H	Avg.	Pass	-	Harmonic



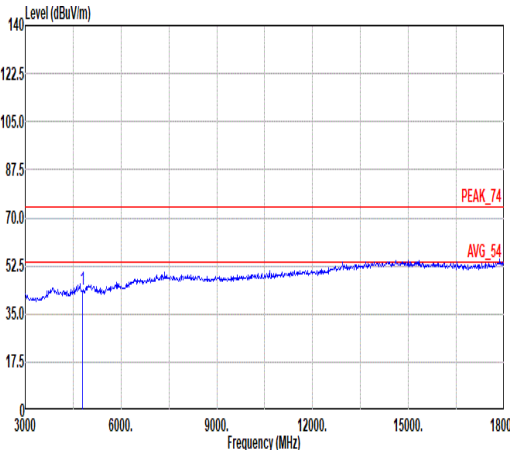
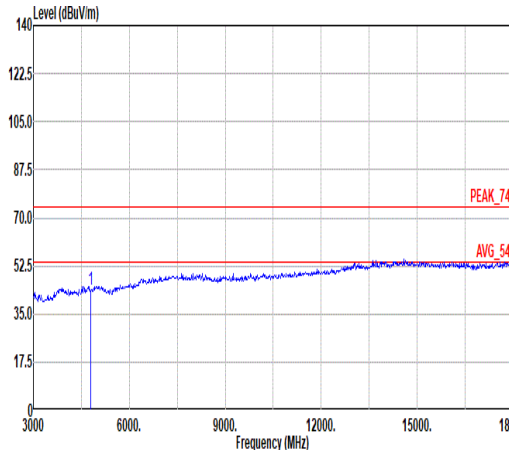
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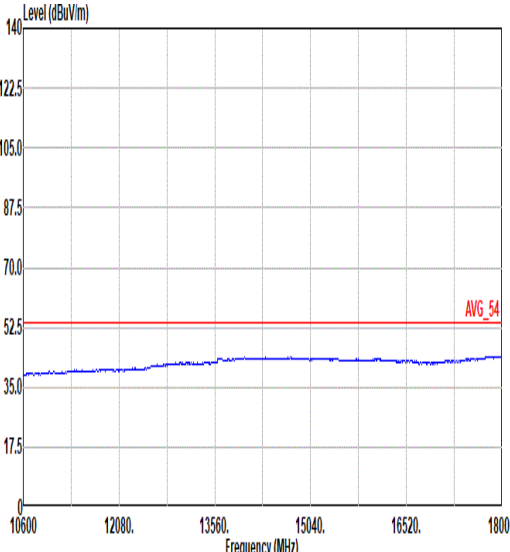
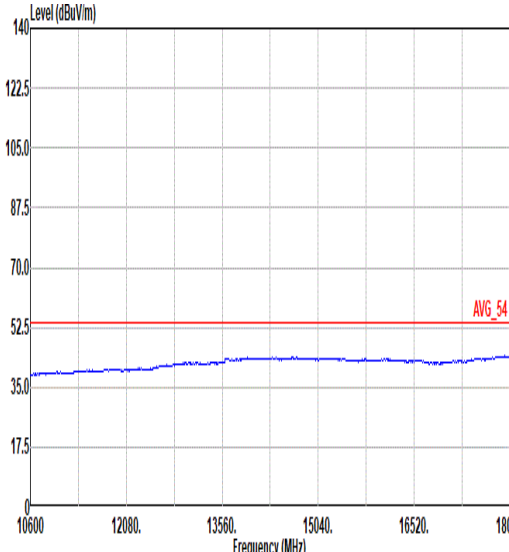


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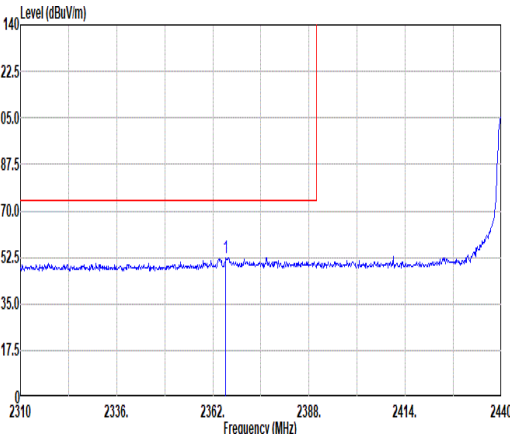
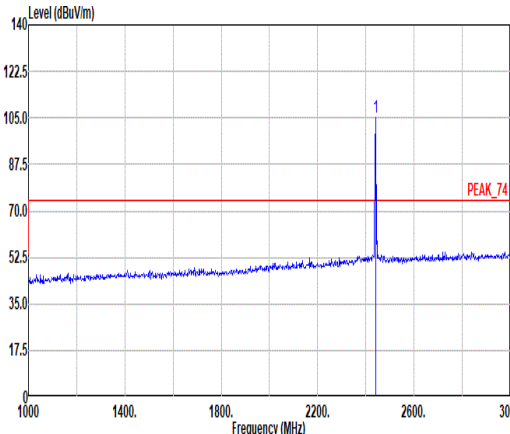
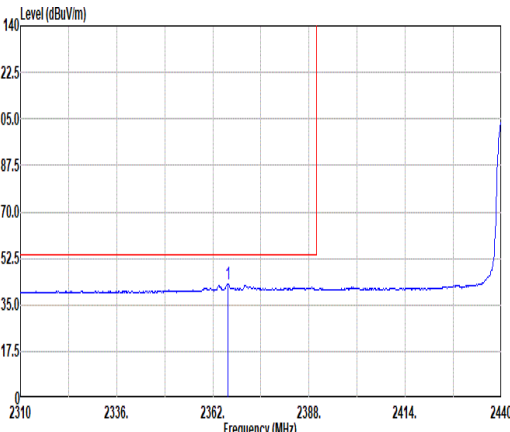
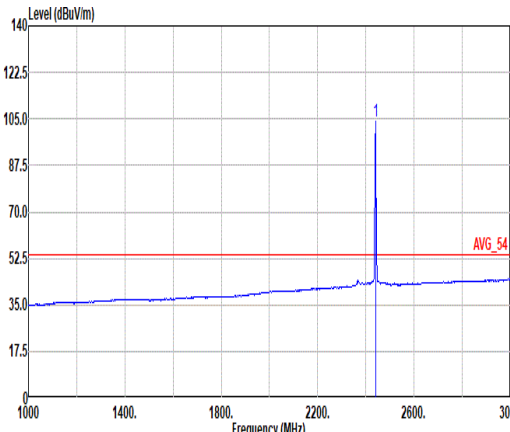


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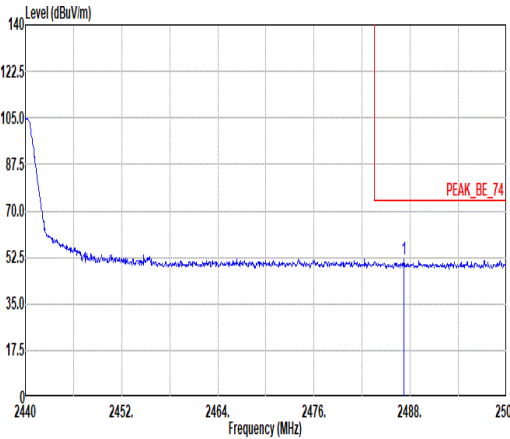
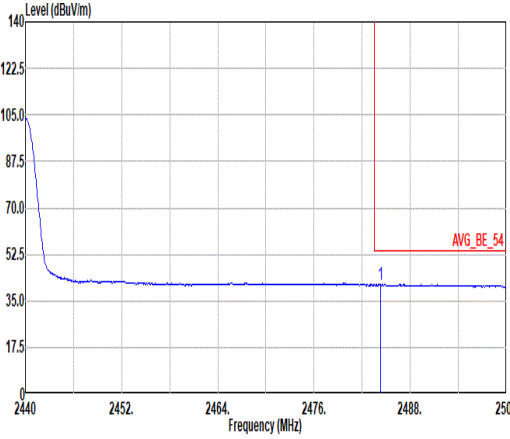


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ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL

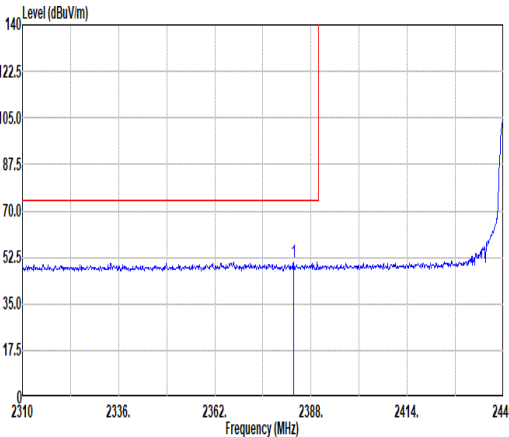
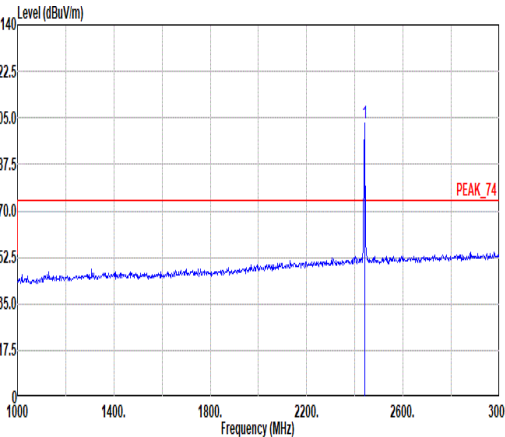
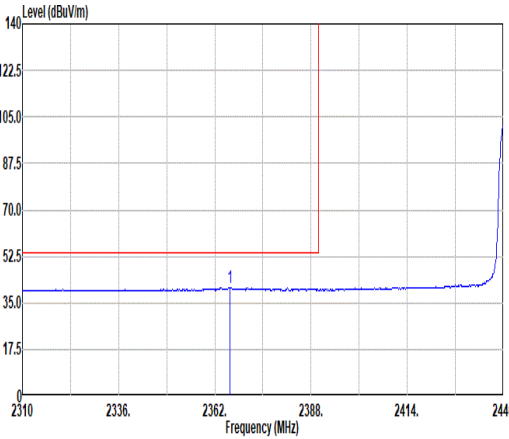
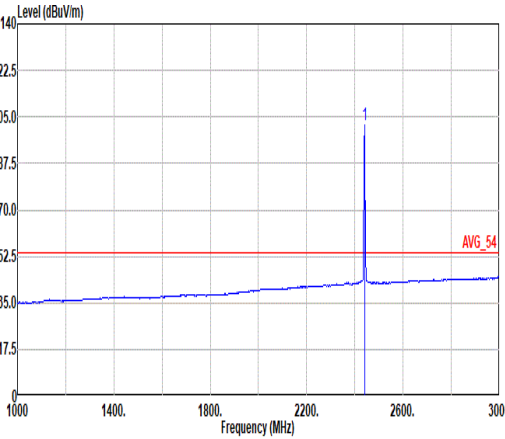


Mode	2																																																																																																		
	Band Edge - L																																																																																																		
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Pol.	Horizontal						Fundamental																																																																																												
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																						
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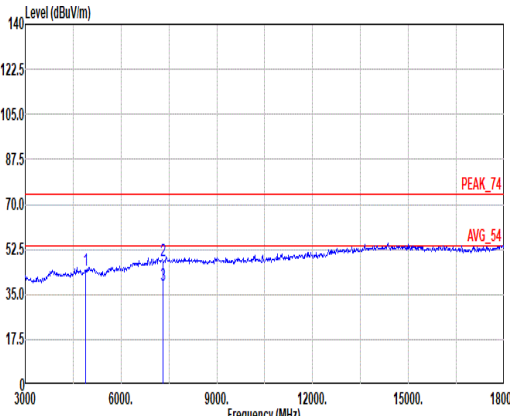
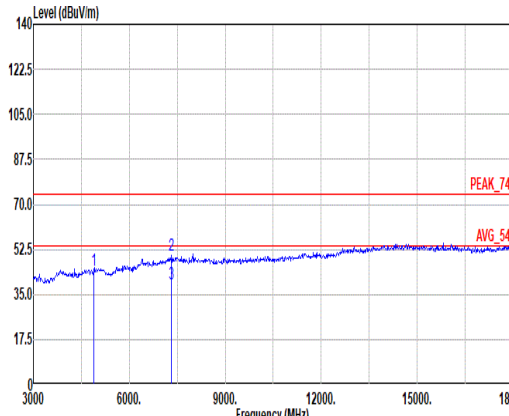


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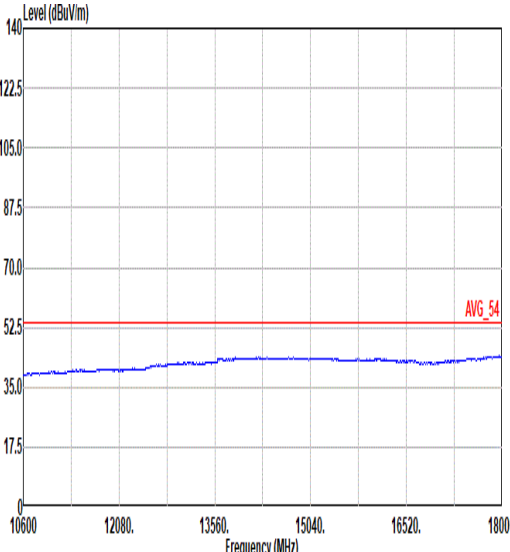
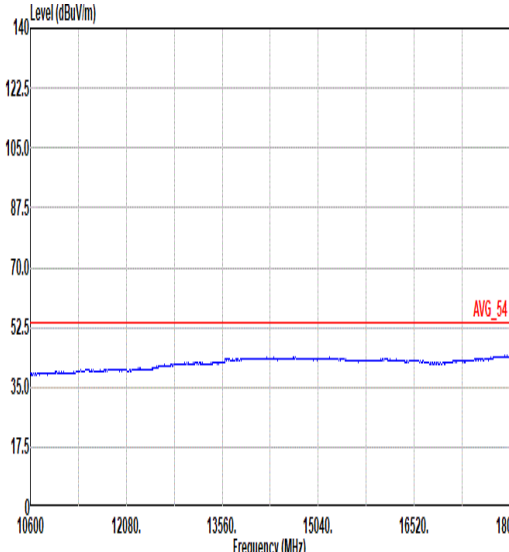


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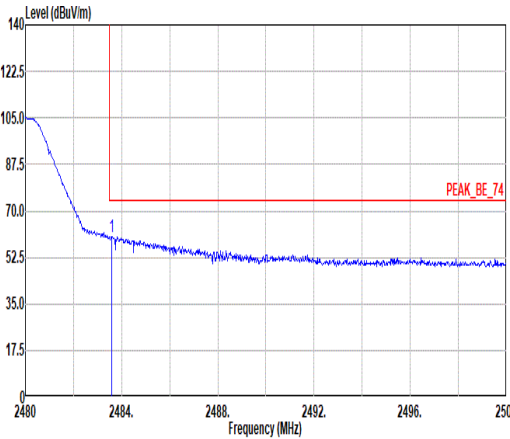
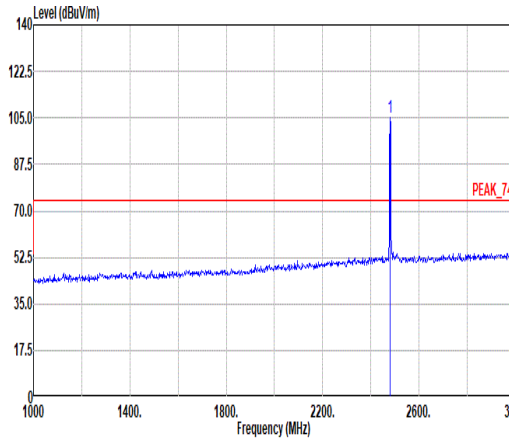
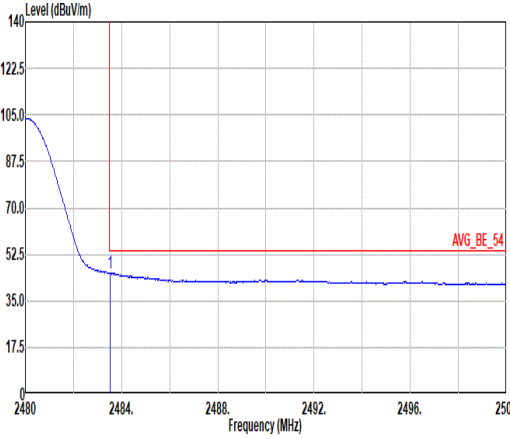
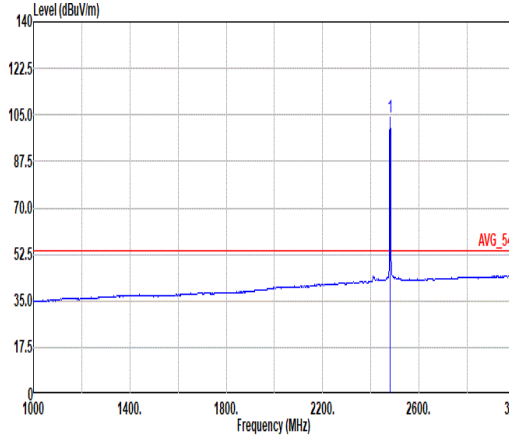


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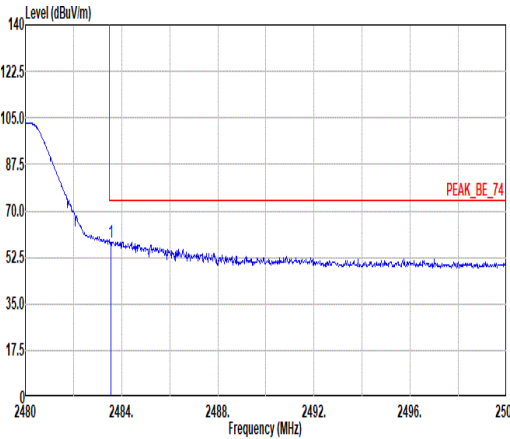
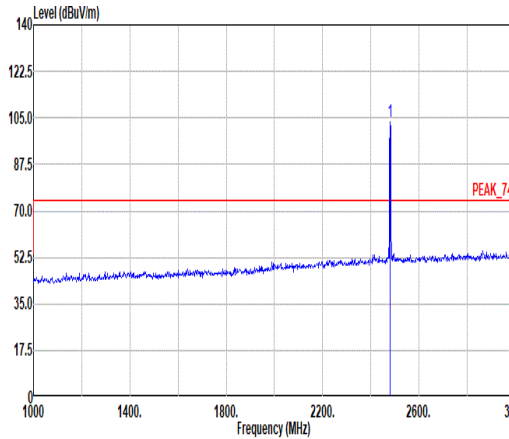
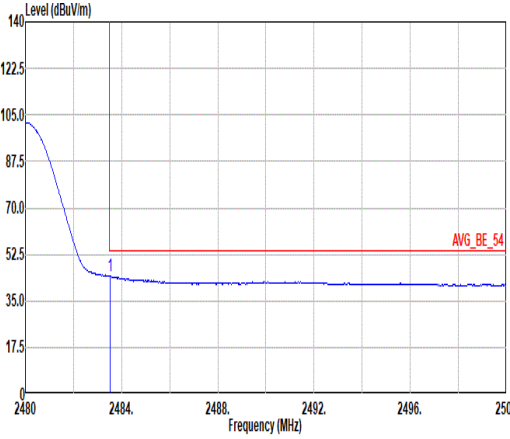
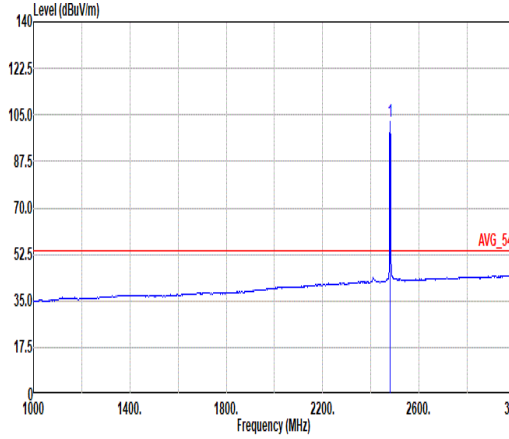


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ANT	1	
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10.6G ~18G Avg.	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL

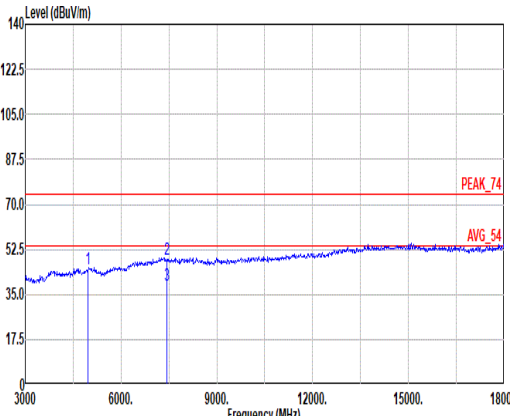
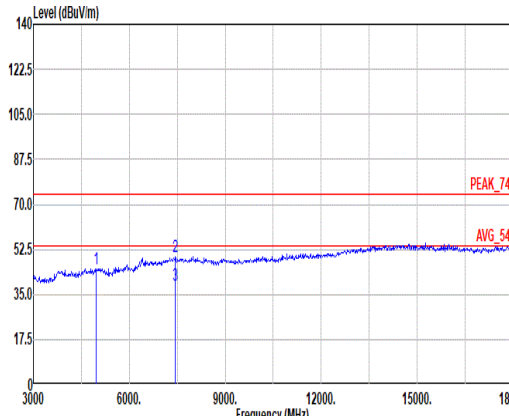


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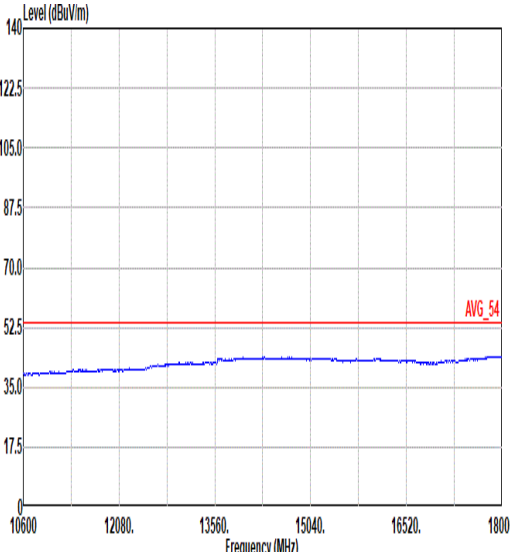
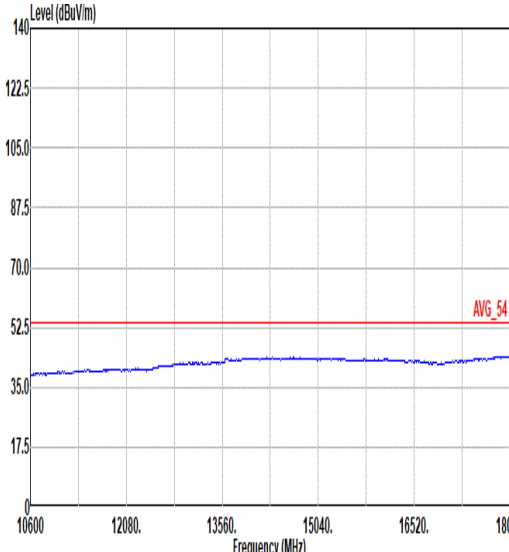


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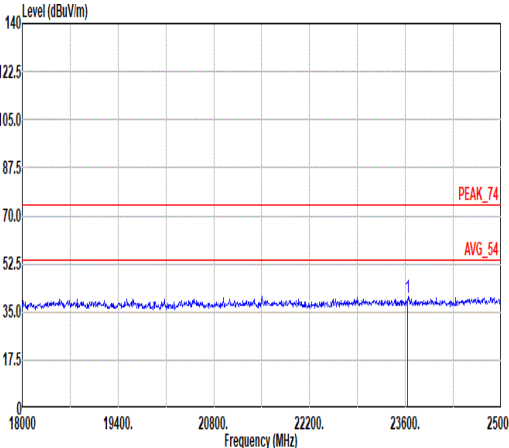
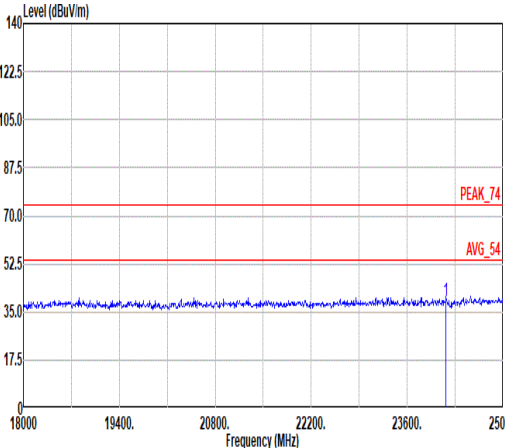


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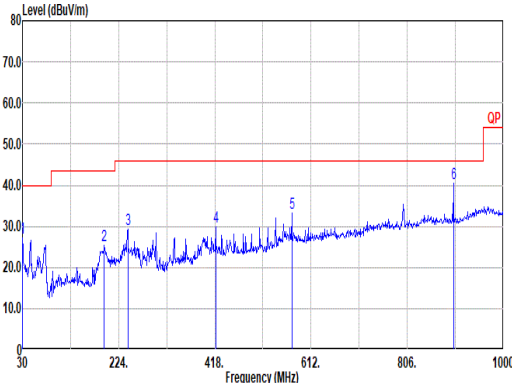
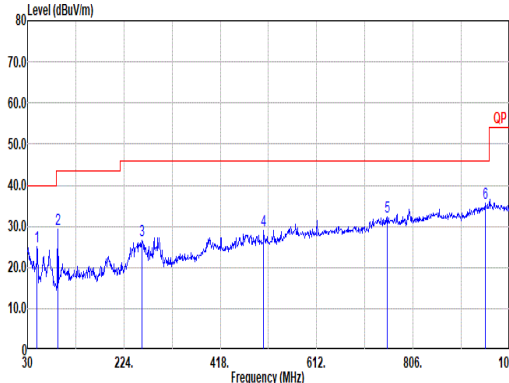


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	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL



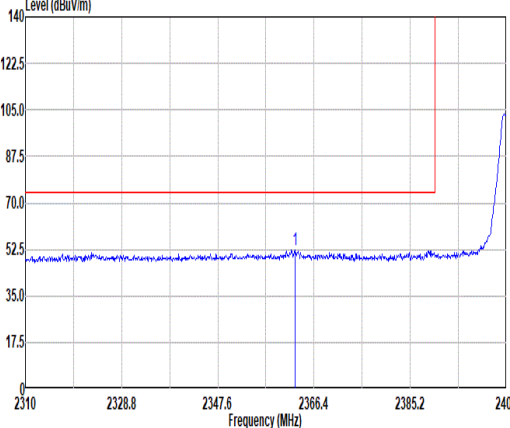
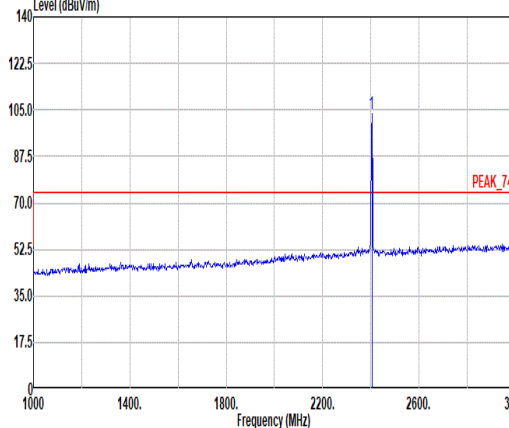
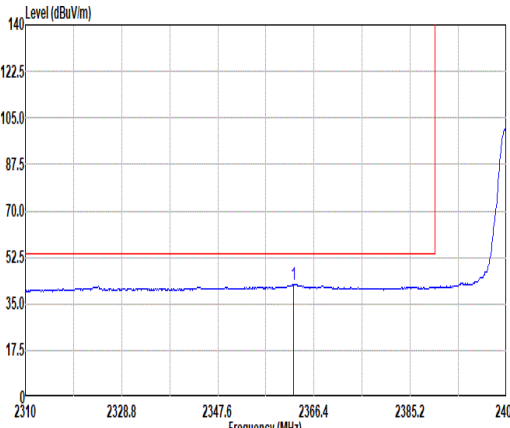
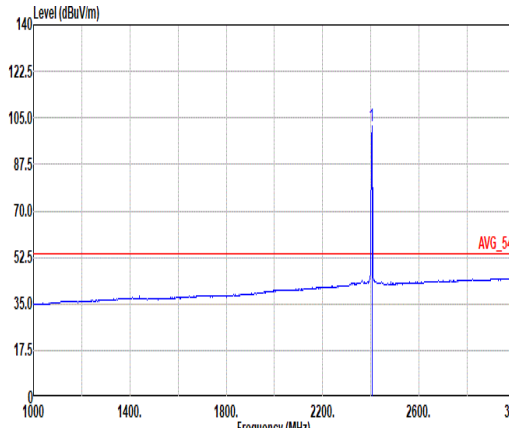
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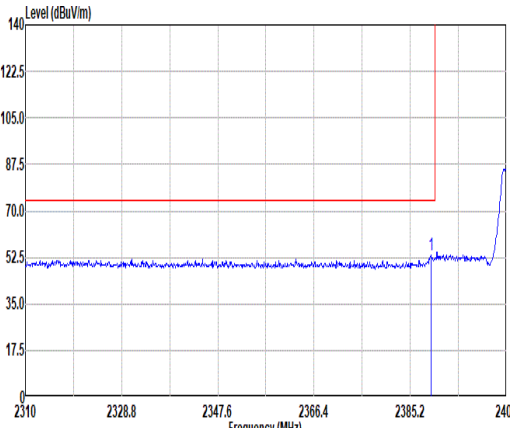
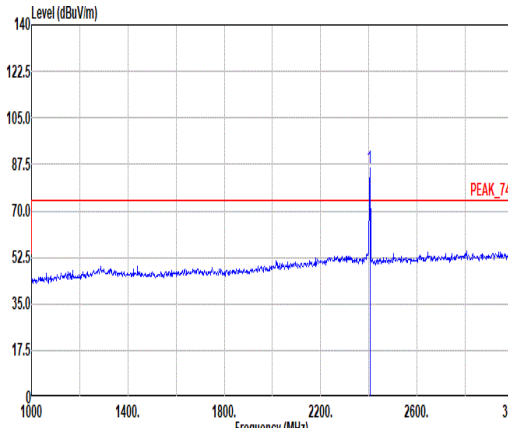
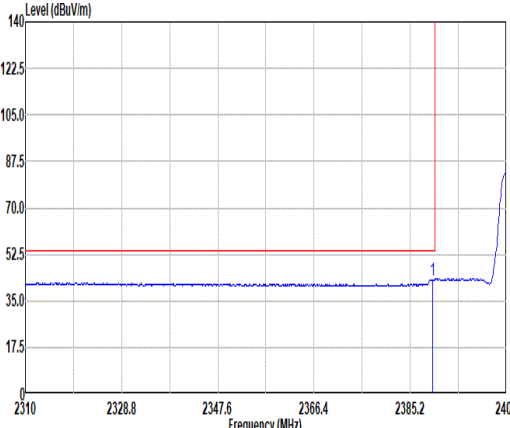
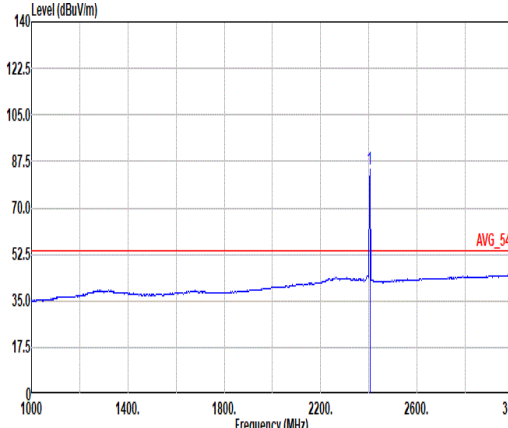
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2	194.90	25.46	43.50	-18.04	40.84	14.74	2.43	32.62	0.07	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
3	242.43	29.26	46.00	-16.74	41.73	17.36	2.71	32.62	0.08	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
4	419.94	29.88	46.00	-16.12	36.69	22.27	3.60	32.78	0.10	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
5	573.20	33.12	46.00	-12.88	35.94	25.65	4.21	32.83	0.15	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
6	899.12	40.39	46.00	-5.61	38.62	28.28	5.32	31.93	0.10	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
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2	91.11	29.33	43.50	-14.17	45.52	14.83	1.63	32.68	0.03	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
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4	505.30	28.84	46.00	-17.16	34.00	23.71	3.93	32.84	0.04	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
5	753.62	32.38	46.00	-13.62	32.57	27.55	4.82	32.68	0.12	--	--	Peak																																																																																																																																																																																																																																																																																																																																																																					
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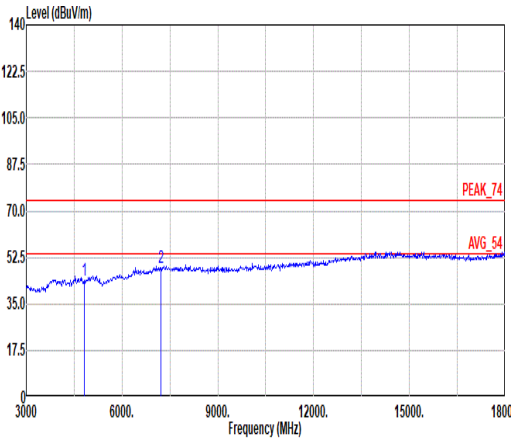
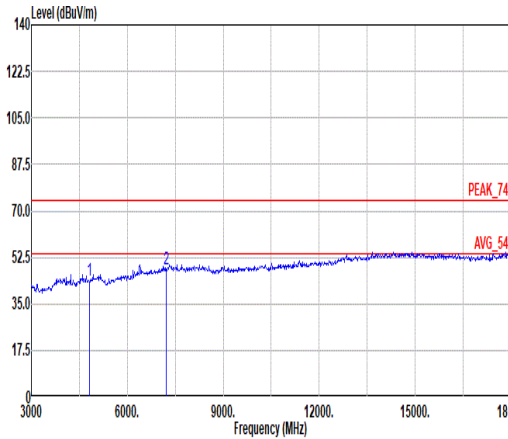
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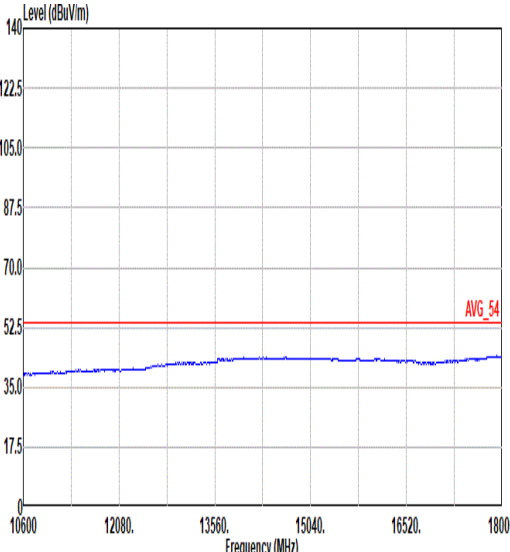
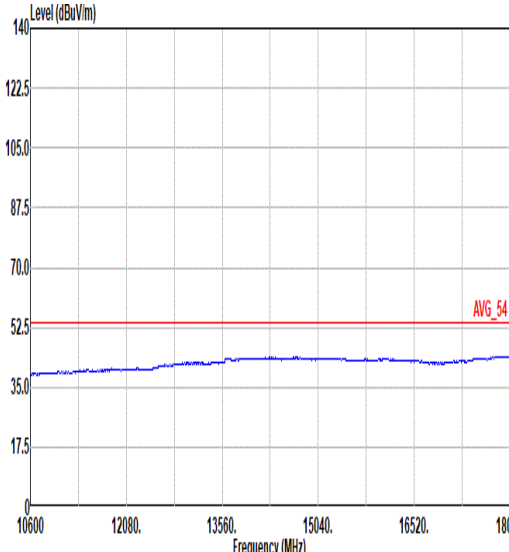


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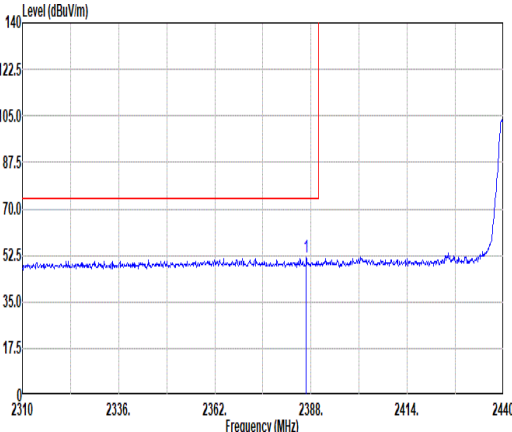
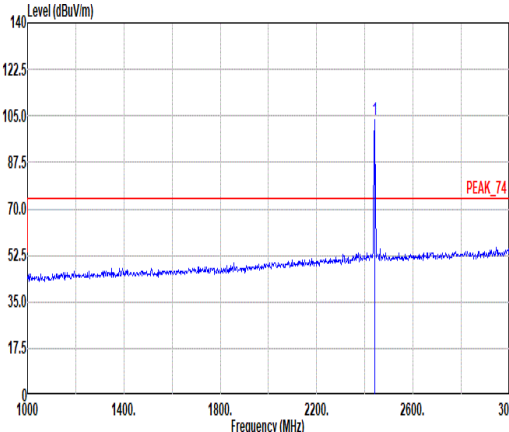
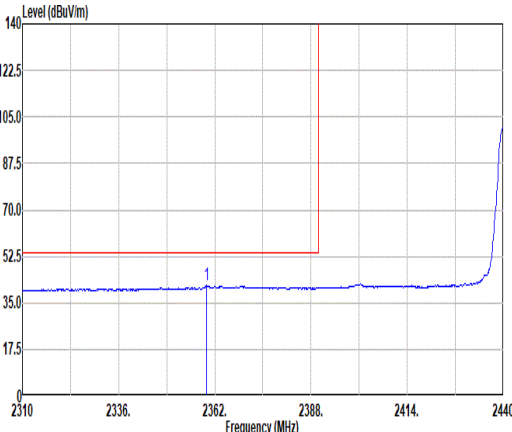
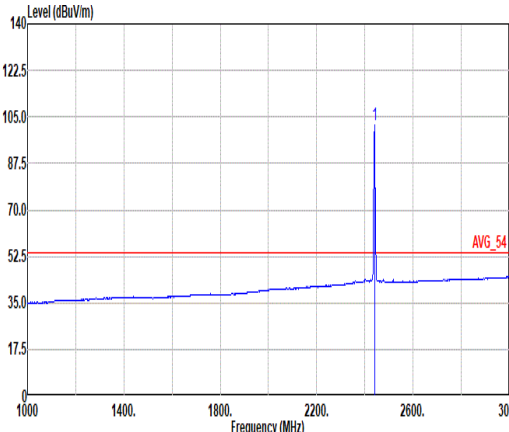


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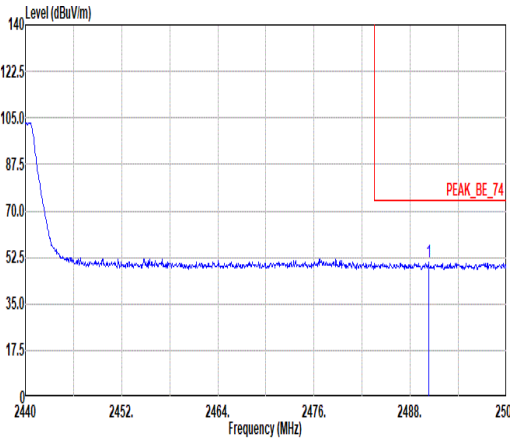
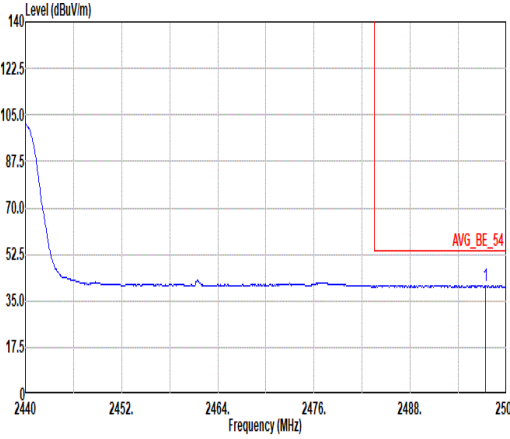


Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK_CH01_2404MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL

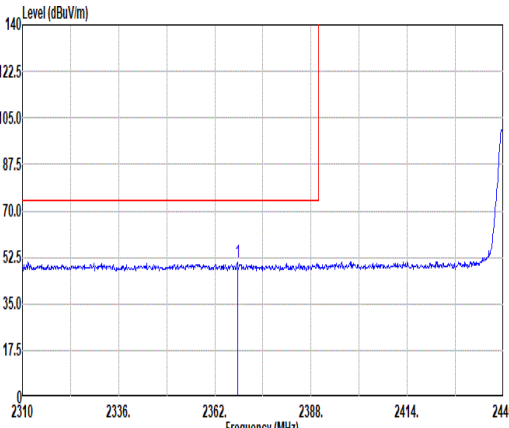
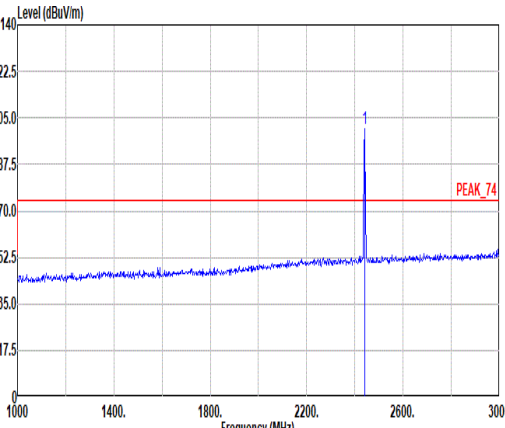
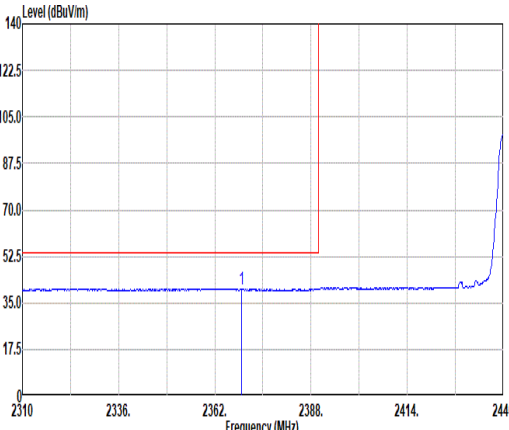
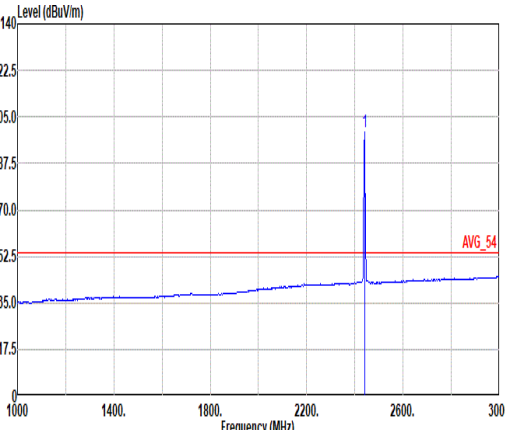


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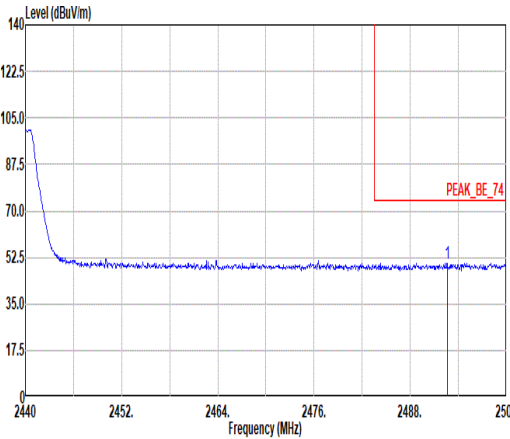
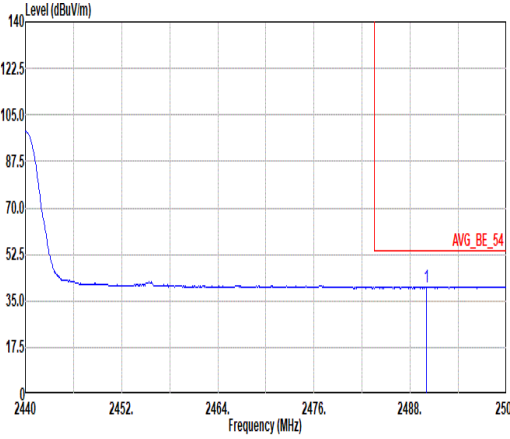


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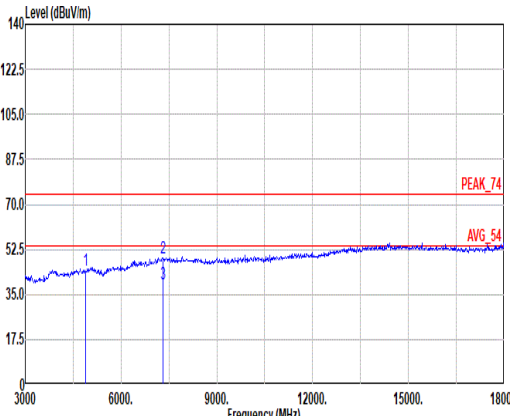
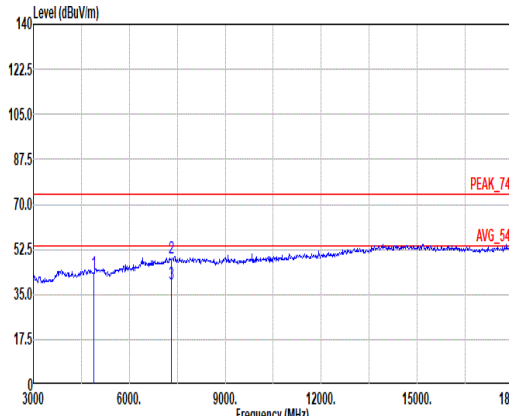


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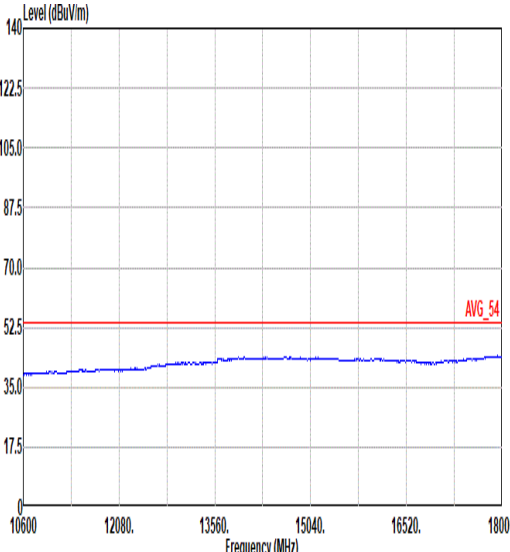
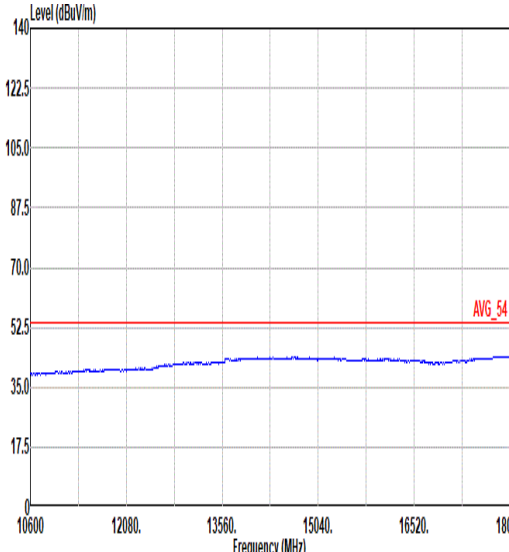


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Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																						
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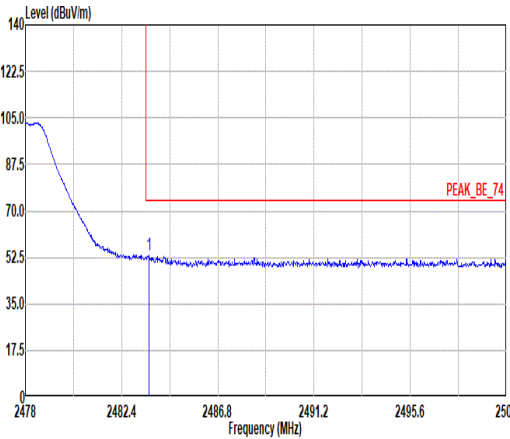
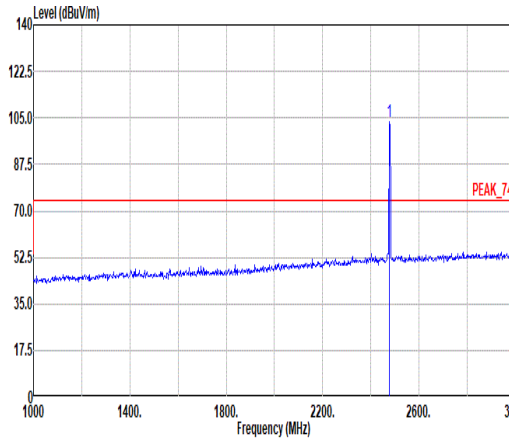
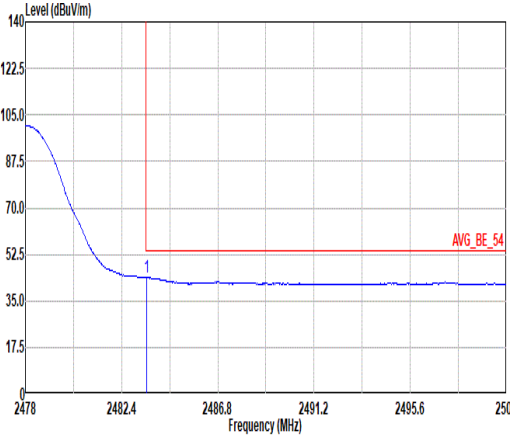
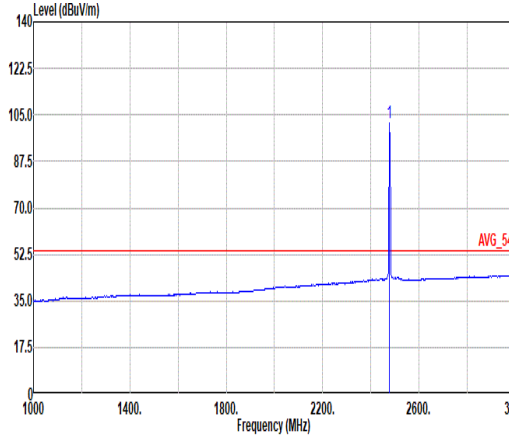


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	Harmonic																																																																																		
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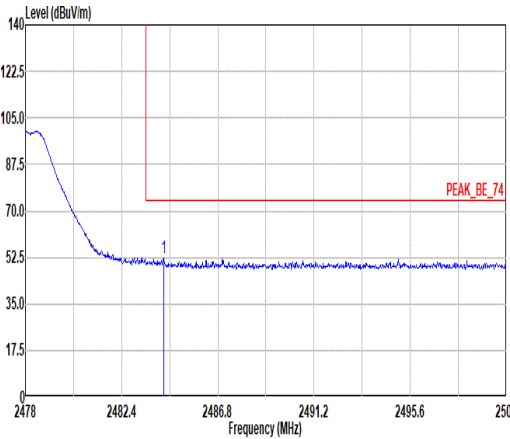
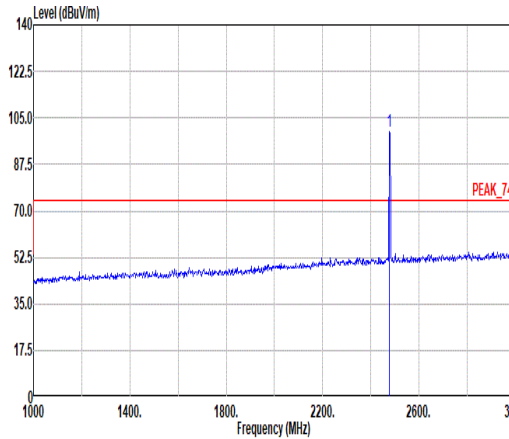
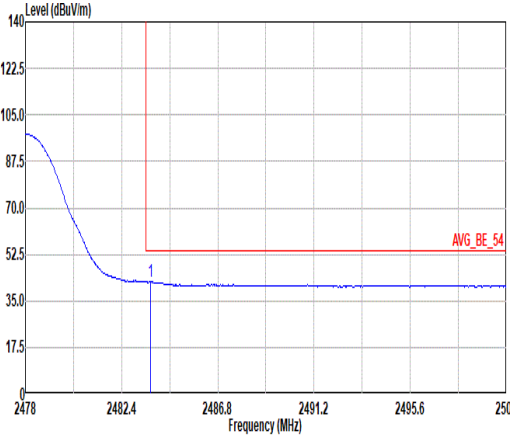
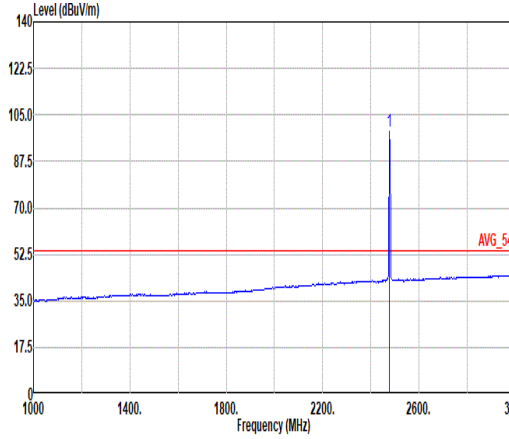


Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK_CH19_2440MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_240711 VERTICAL

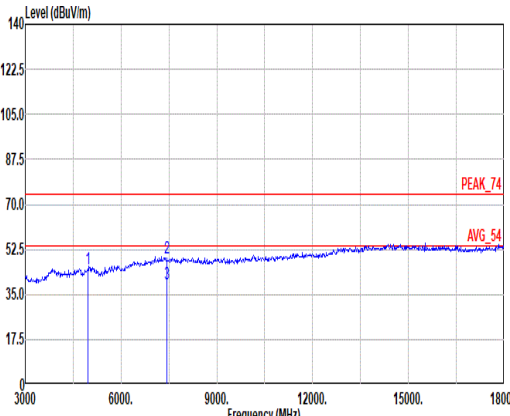
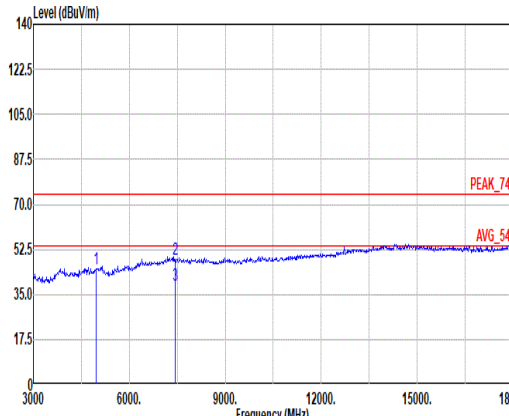


Mode	6																																																																																																		
	Band Edge																																																																																																		
	2400-2483.5_Bluetooth-LE GFSK_CH38_2478MHz																																																																																																		
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Mode	6												
	Harmonic												
	2400-2483.5_Bluetooth-LE GFSK_CH38_2478MHz												
ANT	1												
Pol.	Horizontal						Vertical						
Peak Avg.													
	Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 HORIZONTAL						Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_240711 VERTICAL						
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB		dBuV	dB/m	dB	dB	dB	cm	deg	
1	4956.00	44.98	74.00	-29.02		33.23	32.71	12.82	34.19	0.41	--	--	PEAK
2	7434.00	49.30	74.00	-24.70		32.48	36.80	16.09	36.80	0.73	--	--	PEAK
3	7434.00	39.21	54.00	-14.79		22.39	36.80	16.09	36.80	0.73	--	--	AVERAGE
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB		dBuV	dB/m	dB	dB	dB	cm	deg	
1	4956.00	44.79	74.00	-29.21		33.04	32.71	12.82	34.19	0.41	--	--	PEAK
2	7434.00	48.59	74.00	-25.41		31.77	36.80	16.09	36.80	0.73	--	--	PEAK
3	7434.00	38.78	54.00	-15.22		21.96	36.80	16.09	36.80	0.73	--	--	AVERAGE