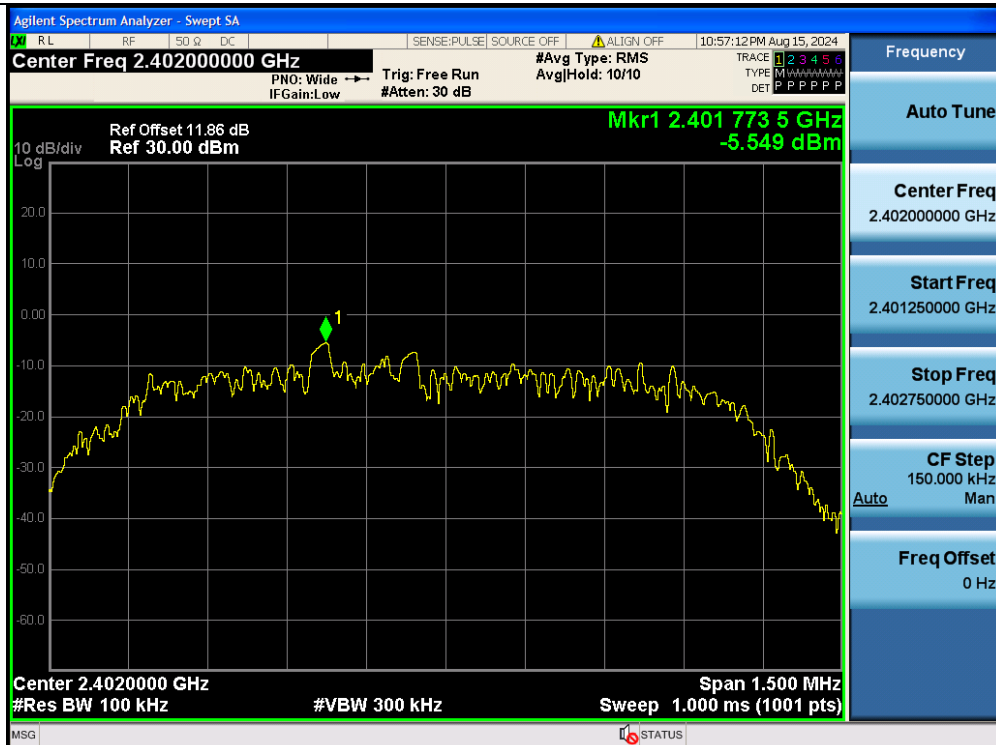
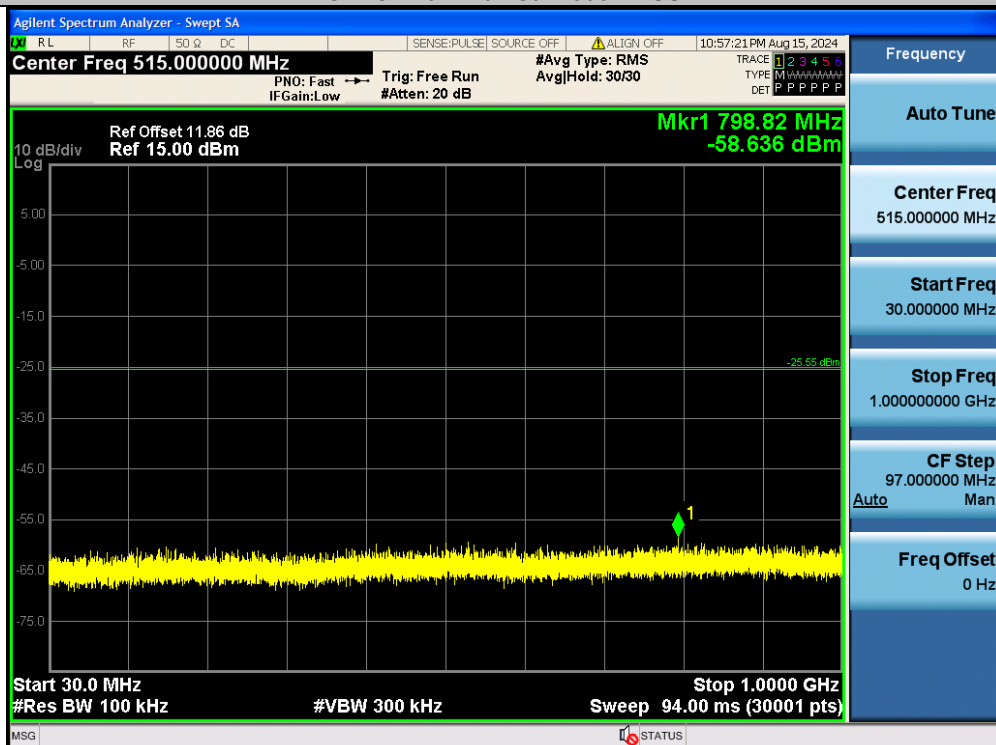
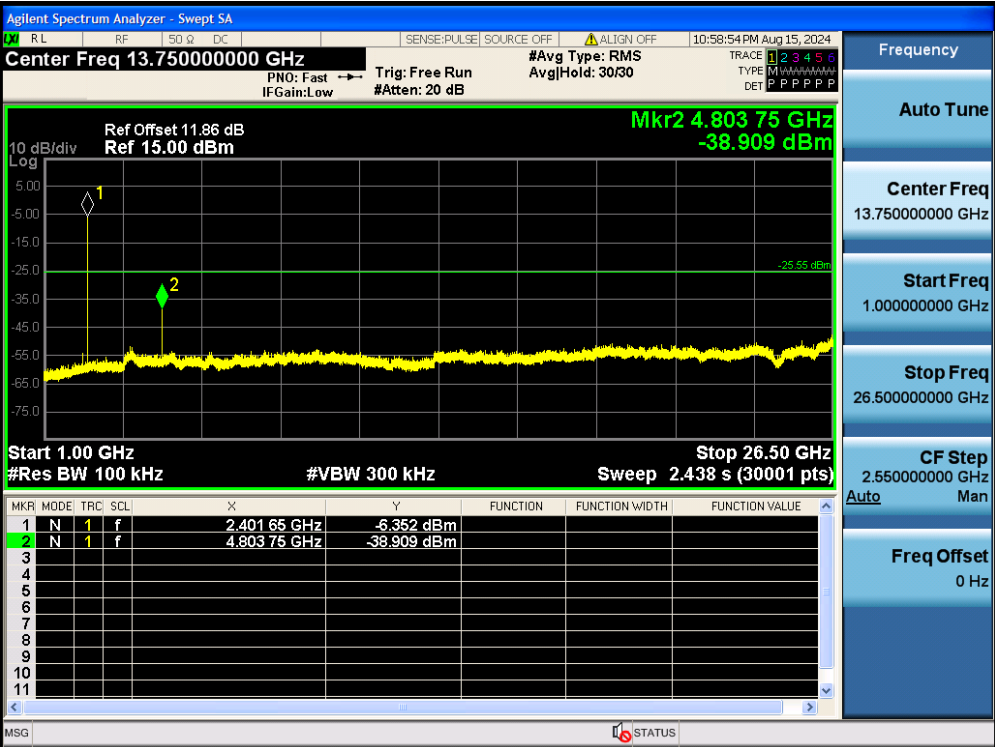




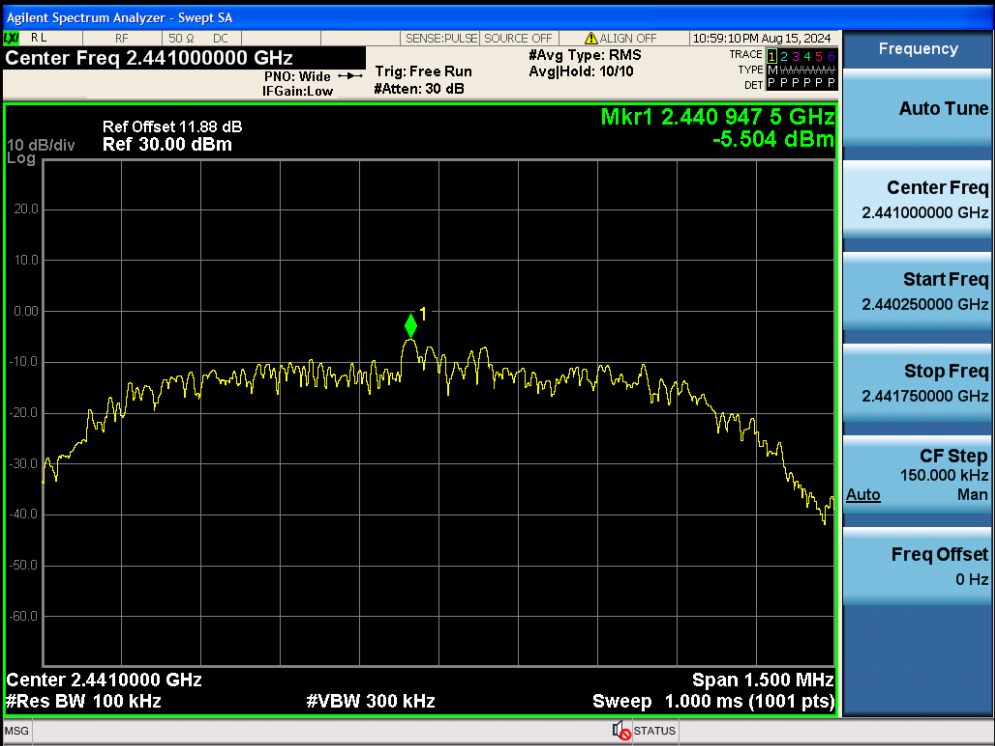
3DH5-Ant1-2402-30-1000-PASS



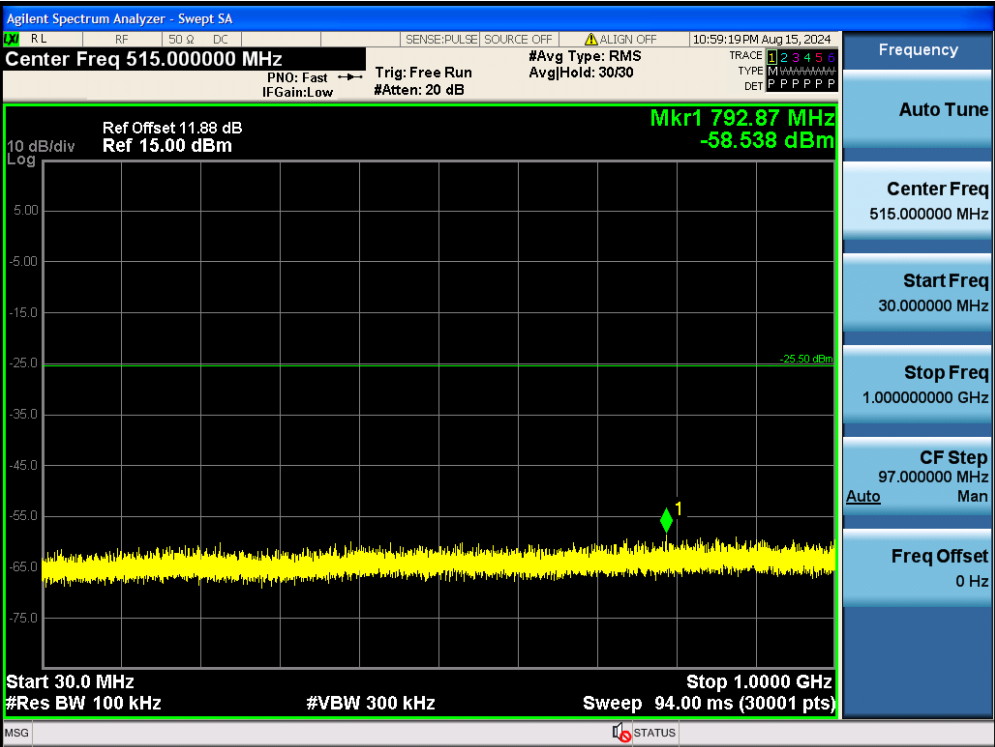
3DH5-Ant1-2402-1000-26500-PASS



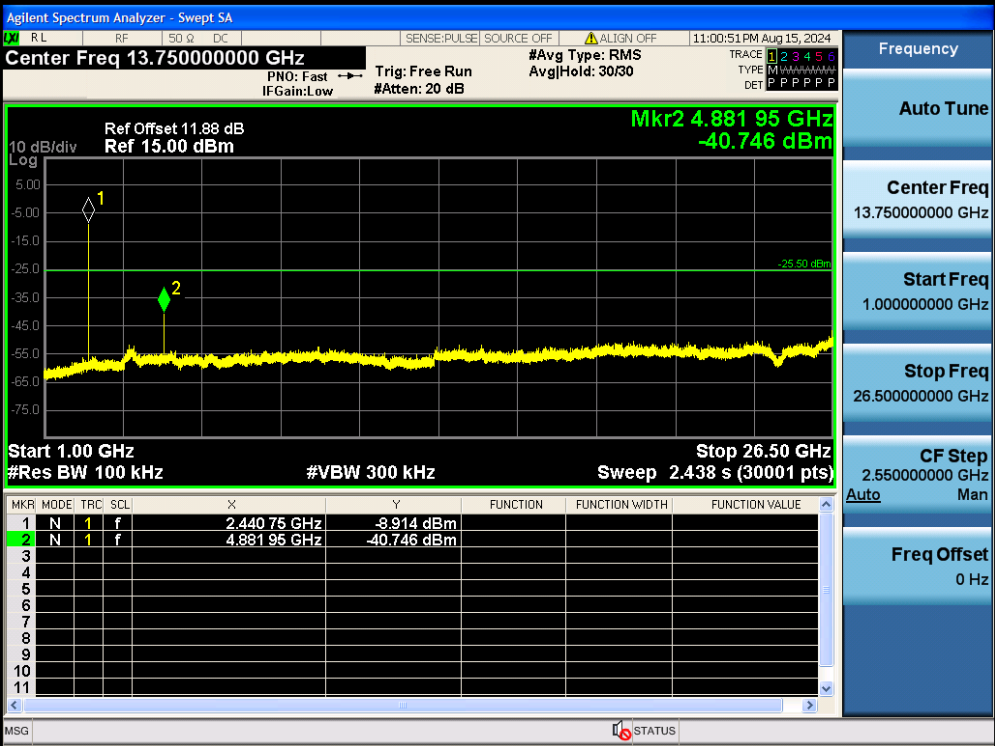
3DH5-Ant1-2441-0~Reference-PASS



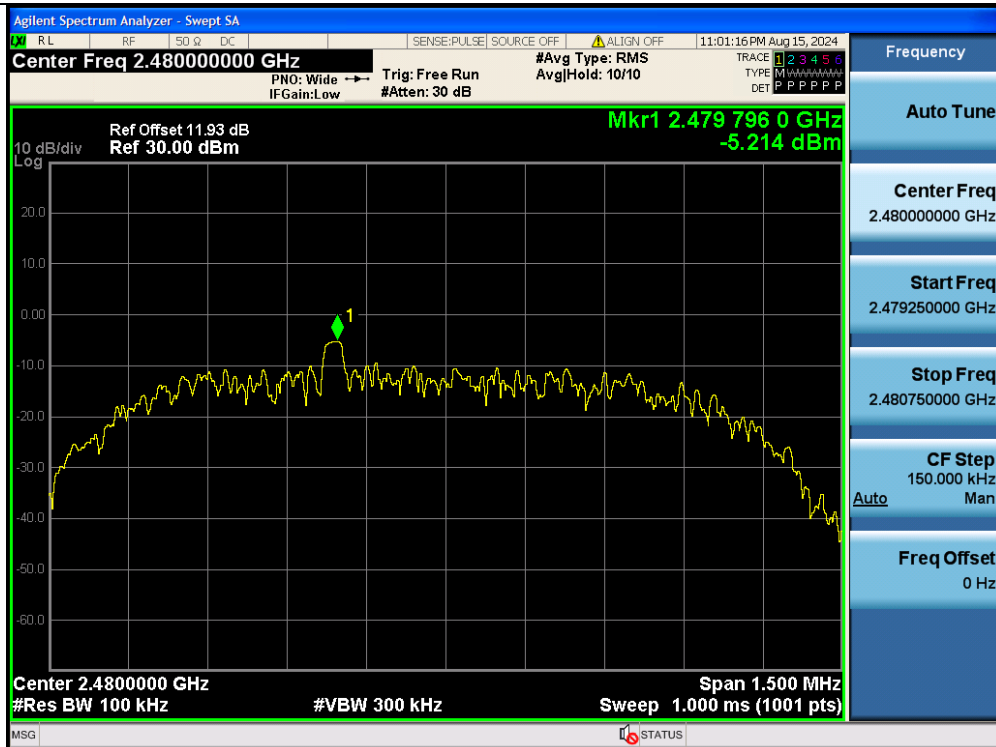
3DH5-Ant1-2441-30~1000-PASS



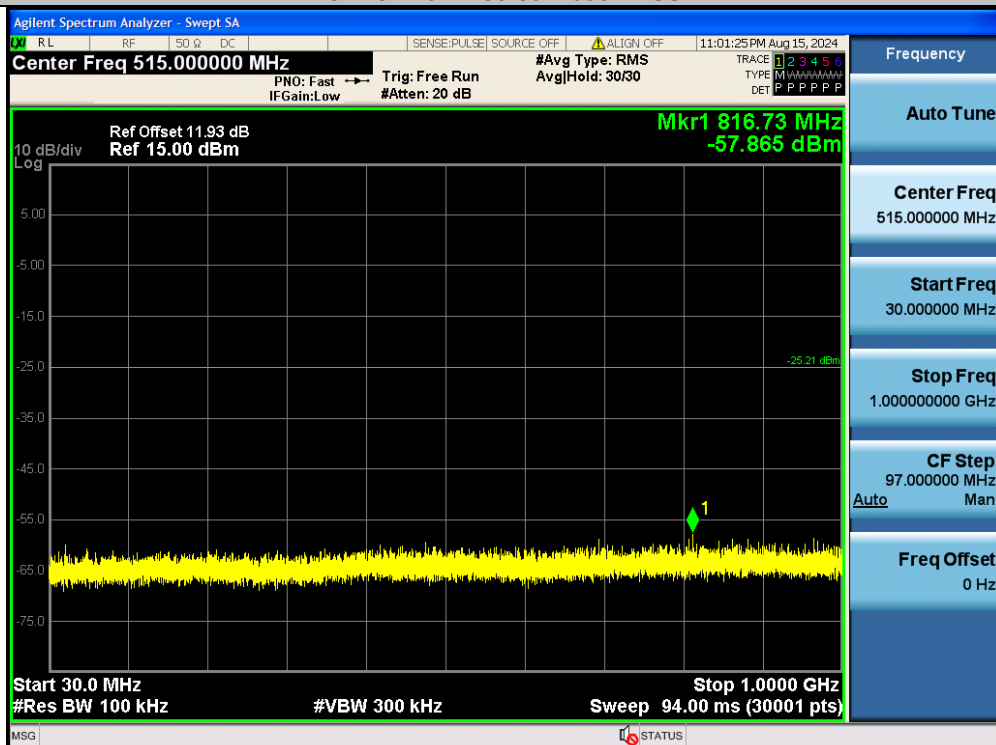
3DH5-Ant1-2441-1000~26500-PASS



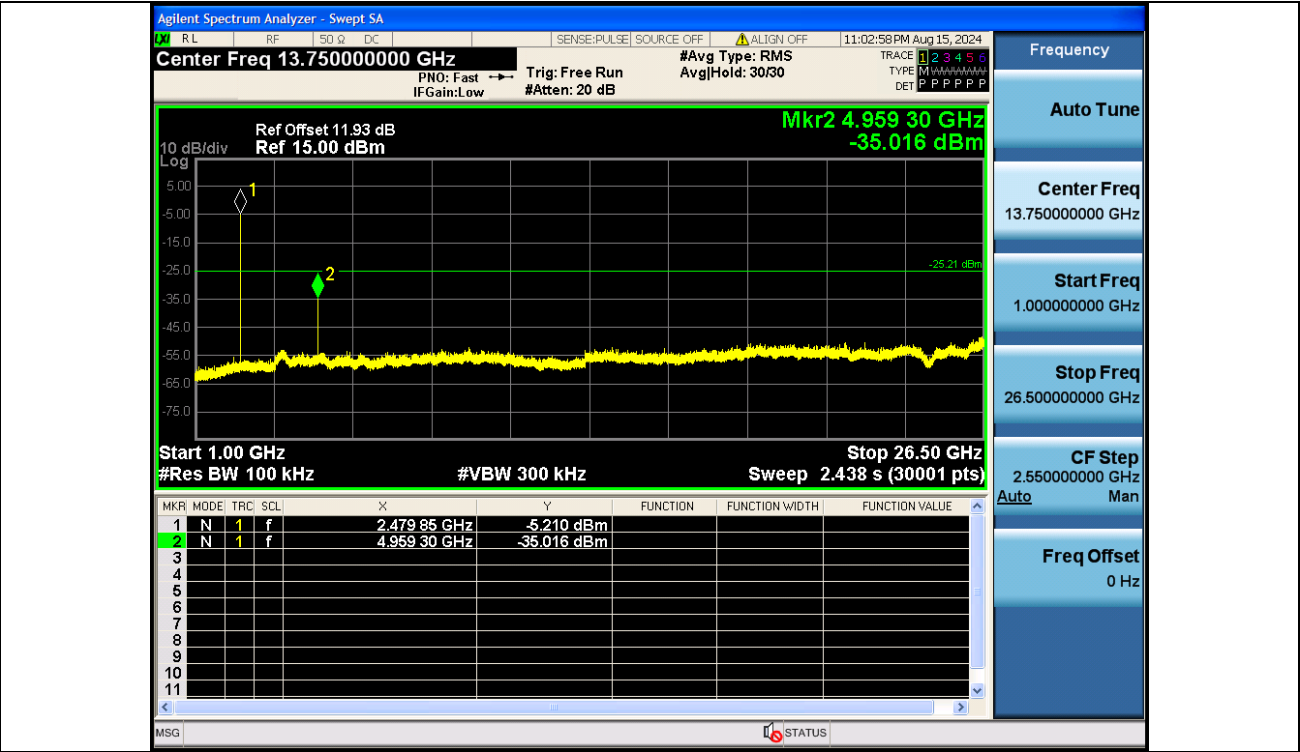
3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30-1000-PASS



3DH5-Ant1-2480-1000-26500-PASS



Appendix A.7: Test Results of Radiated Spurious Emissions

Note:

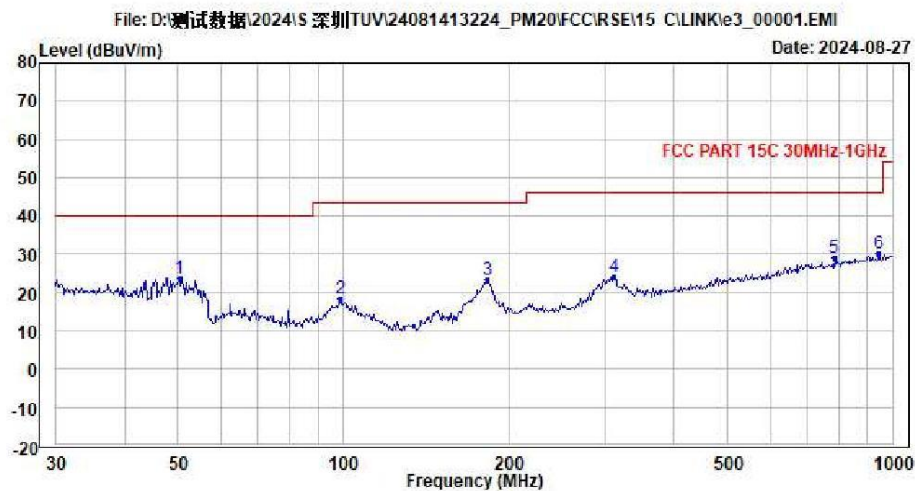
- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz

*Note: The Model PM20 is the factory code, and the actual model is HPBT3BLKPRM.



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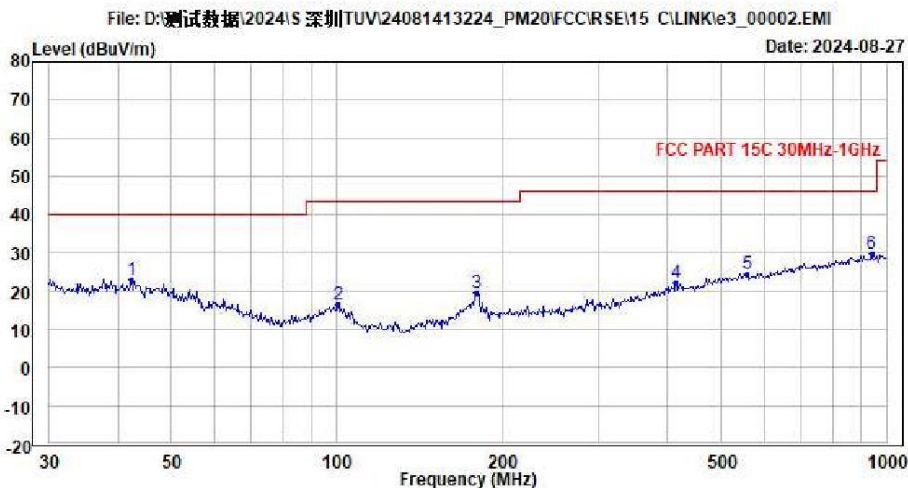


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_LINK
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	50.378	23.91	37.63	14.39	0.00	0.79	28.90	40.00	-16.09	Peak
2	99.034	18.27	34.33	11.80	0.00	1.04	28.90	43.50	-25.23	Peak
3	183.163	23.52	35.31	15.82	0.00	1.37	28.98	43.50	-19.98	Peak
4	310.723	24.07	32.59	18.91	0.00	1.68	29.11	46.00	-21.93	Peak
5	783.539	29.20	26.64	29.24	0.00	2.54	29.22	46.00	-16.80	Peak
6 PP	945.632	30.19	25.08	31.11	0.00	2.98	28.98	46.00	-15.81	Peak



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Condition : 3m Vertical
 Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
 Press : 100.2kpa
 Product : Wireless Heaaphones
 Model No. : PM20
 Power Rating : USB
 Test Engineer : Bowie
 Test Mode : BT_LINK
 Remark :

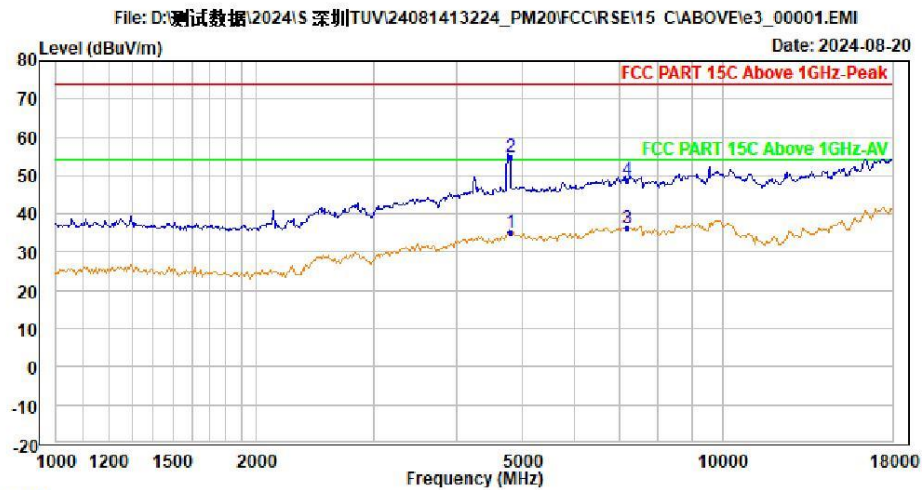
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	42.384	23.07	32.86	18.25	0.00	0.86	28.90	40.00	-16.93	Peak
2	100.555	16.37	32.32	11.90	0.00	1.05	28.90	43.50	-27.13	Peak
3	179.478	19.41	31.24	15.80	0.00	1.35	28.98	43.50	-24.09	Peak
4	415.123	22.37	26.77	22.90	0.00	1.92	29.22	46.00	-23.63	Peak
5	560.266	24.67	26.22	25.70	0.00	2.19	29.44	46.00	-21.33	Peak
6 PP	940.839	29.87	24.88	31.02	0.00	2.96	28.99	46.00	-16.13	Peak

1GHz - 18GHz

*Note: The Model PM20 is the factory code, and the actual model is HPBT3BLKPRM.



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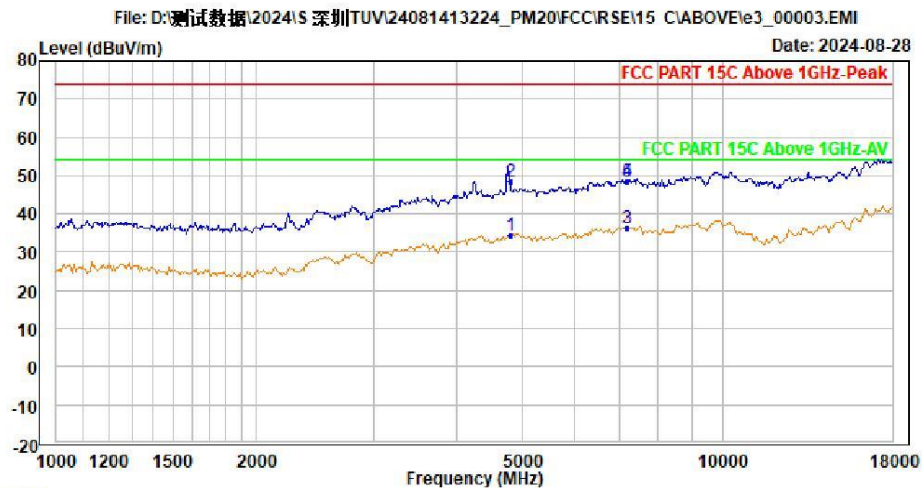


Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_3DH5_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	35.00	36.06	35.48	0.00	9.32	45.86	54.00	-19.00	Average
2 PK	4804.000	54.90	55.96	35.48	0.00	9.32	45.86	74.00	-19.10	Peak
3 PP	7206.000	36.16	34.42	36.94	0.00	10.34	45.54	54.00	-17.84	Average
4	7206.000	48.88	47.14	36.94	0.00	10.34	45.54	74.00	-25.12	Peak



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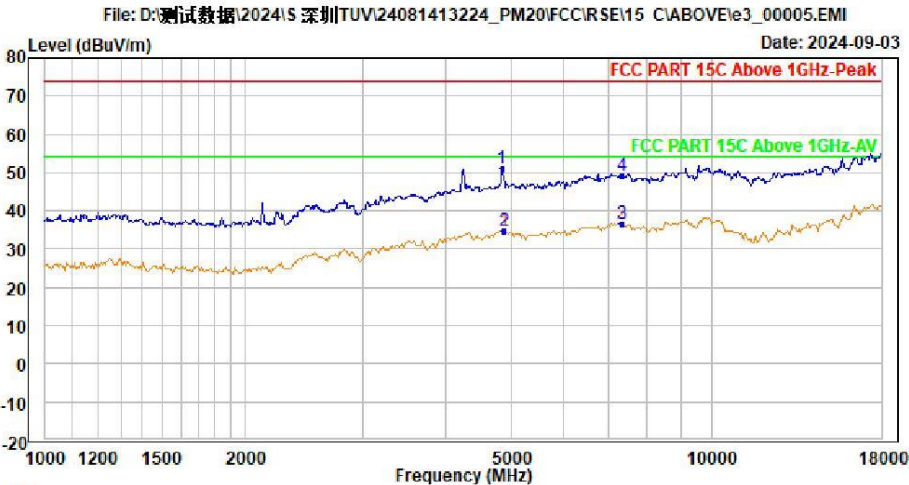


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_3DH5_2402
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4804.000	34.46	35.52	35.48	0.00	9.32	45.86	54.00	-19.54	Average
2 PK	4804.000	48.52	49.58	35.48	0.00	9.32	45.86	74.00	-25.48	Peak
3 PP	7206.000	36.33	34.59	36.94	0.00	10.34	45.54	54.00	-17.67	Average
4	7206.000	48.38	46.64	36.94	0.00	10.34	45.54	74.00	-25.62	Peak
5	7207.945	48.38	46.64	36.94	0.00	10.34	45.54	74.00	-25.62	Peak



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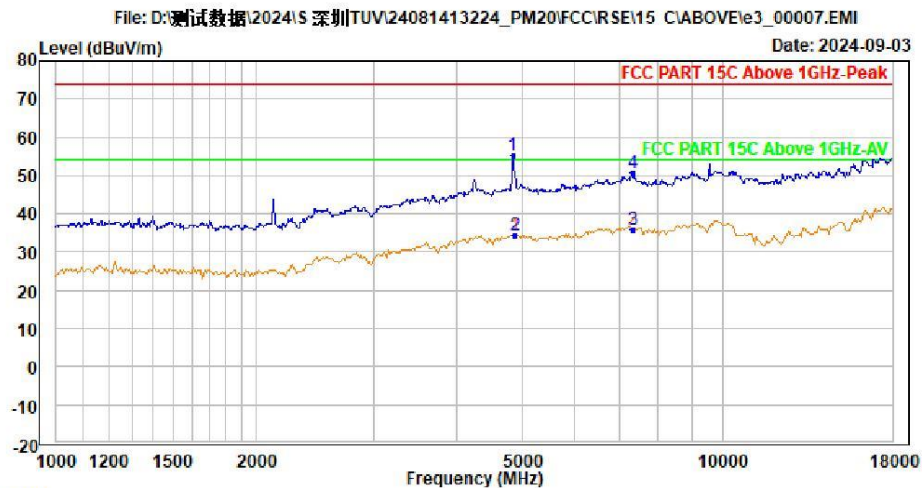


Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_3DH5_2441
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PK 4847.240	50.92	51.94	35.51	0.00	9.34	45.87	74.00	-23.08	Peak
2	4882.000	34.60	35.60	35.53	0.00	9.35	45.88	54.00	-19.40	Average
3	PP 7323.000	36.48	34.71	36.96	0.00	10.37	45.56	54.00	-17.52	Average
4	7323.000	49.14	47.37	36.96	0.00	10.37	45.56	74.00	-24.86	Peak



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Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_3DH5_2441
Remark :

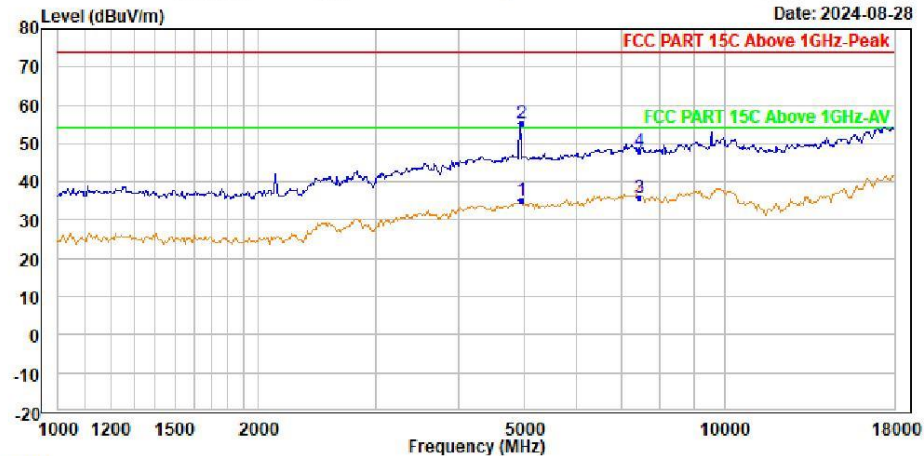
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PK 4847.240	55.17	56.19	35.51	0.00	9.34	45.87	74.00	-18.83	Peak
2	4882.000	34.55	35.55	35.53	0.00	9.35	45.88	54.00	-19.45	Average
3	PP 7323.000	36.04	34.27	36.96	0.00	10.37	45.56	54.00	-17.96	Average
4	7323.000	50.76	48.99	36.96	0.00	10.37	45.56	74.00	-23.24	Peak



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File: D:\测试数据\2024\5 深圳TUV\24081413224_PM20\FCC\IRSE\15 C\ABOVE\le3_00009.EMI

Date: 2024-08-28



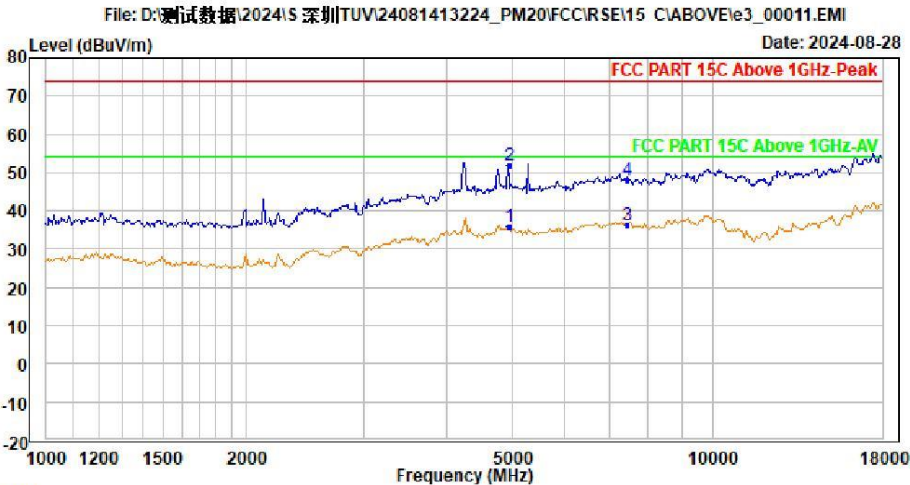
Trace: 1

Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
Press : 100.2kpa
Product : Wireless Heaaphones
Model No. : PM20
Power Rating : USB
Test Engineer : Bowie
Test Mode : BT_3DH5_2480
Remark :

	Freq	Level	Read	Ant	Aux	Cable	Preamp	Limit	Over	
	MHz	dBuV/m	Level	Factor	Factor	Loss	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	35.27	36.20	35.58	0.00	9.38	45.89	54.00	-18.73	Average
2 PK	4960.000	55.25	56.18	35.58	0.00	9.38	45.89	74.00	-18.75	Peak
3 PP	7440.000	35.84	34.03	36.99	0.00	10.41	45.59	54.00	-18.16	Average
4	7440.000	48.11	46.30	36.99	0.00	10.41	45.59	74.00	-25.89	Peak



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Trace: 1
 Condition : 3m Vertical
 Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
 Press : 100.2kpa
 Product : Wireless Heaaphones
 Model No. : PM20
 Power Rating : USB
 Test Engineer : Bowie
 Test Mode : BT_3DH5_2480
 Remark :

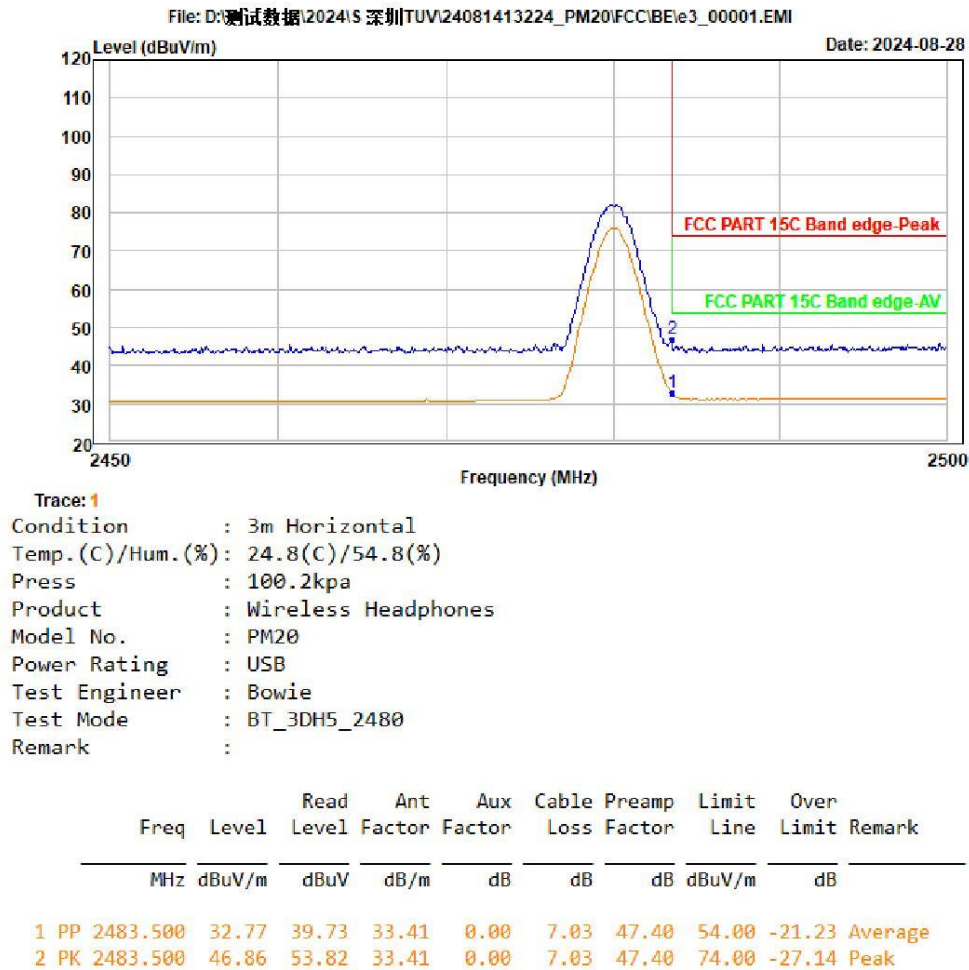
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4960.000	35.83	36.76	35.58	0.00	9.38	45.89	54.00	-18.17	Average
2 PK	4960.000	52.01	52.94	35.58	0.00	9.38	45.89	74.00	-21.99	Peak
3 PP	7440.000	36.21	34.40	36.99	0.00	10.41	45.59	54.00	-17.79	Average
4	7440.000	47.87	46.06	36.99	0.00	10.41	45.59	74.00	-26.13	Peak

Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

*Note: The Model PM20 is the factory code, and the actual model is HPBT3BLKPRM.

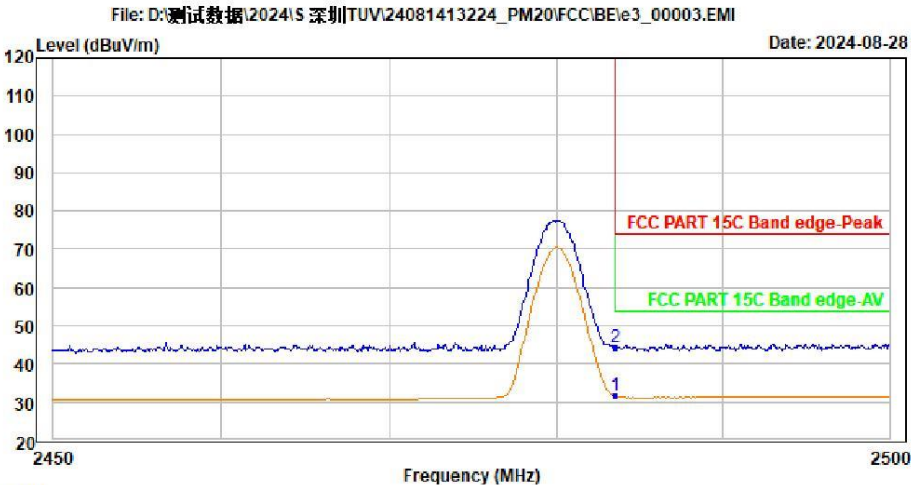


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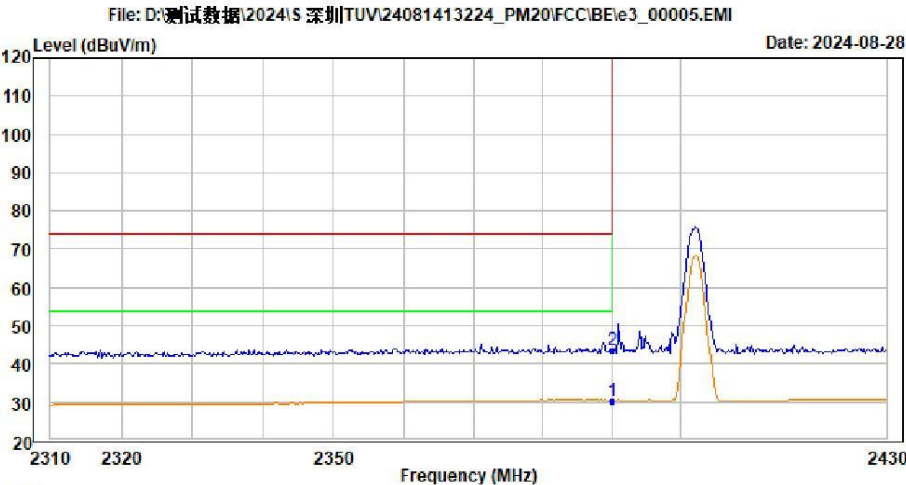


Trace: 1
 Condition : 3m Vertical
 Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
 Press : 100.2kpa
 Product : Wireless Headphones
 Model No. : PM20
 Power Rating : USB
 Test Engineer : Bowie
 Test Mode : BT_3DH5_2480
 Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2483.500	31.71	38.67	33.41	0.00	7.03	47.40	54.00	-22.29	Average
2	PK 2483.500	44.32	51.28	33.41	0.00	7.03	47.40	74.00	-29.68	Peak



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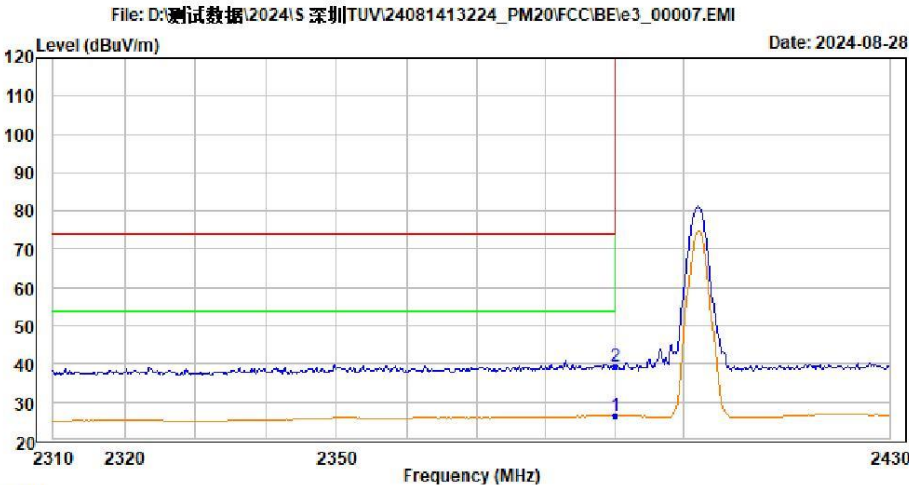


Trace: 1
 Condition : 3m Vertical
 Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
 Press : 100.2kpa
 Product : Wireless Headphones
 Model No. : PM20
 Power Rating : USB
 Test Engineer : Bowie
 Test Mode : BT_3DH5_2402
 Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2390.000	30.28	37.87	32.91	0.00	6.90	47.40	54.00	-23.72	Average
2	PK 2390.000	43.76	51.35	32.91	0.00	6.90	47.40	74.00	-30.24	Peak



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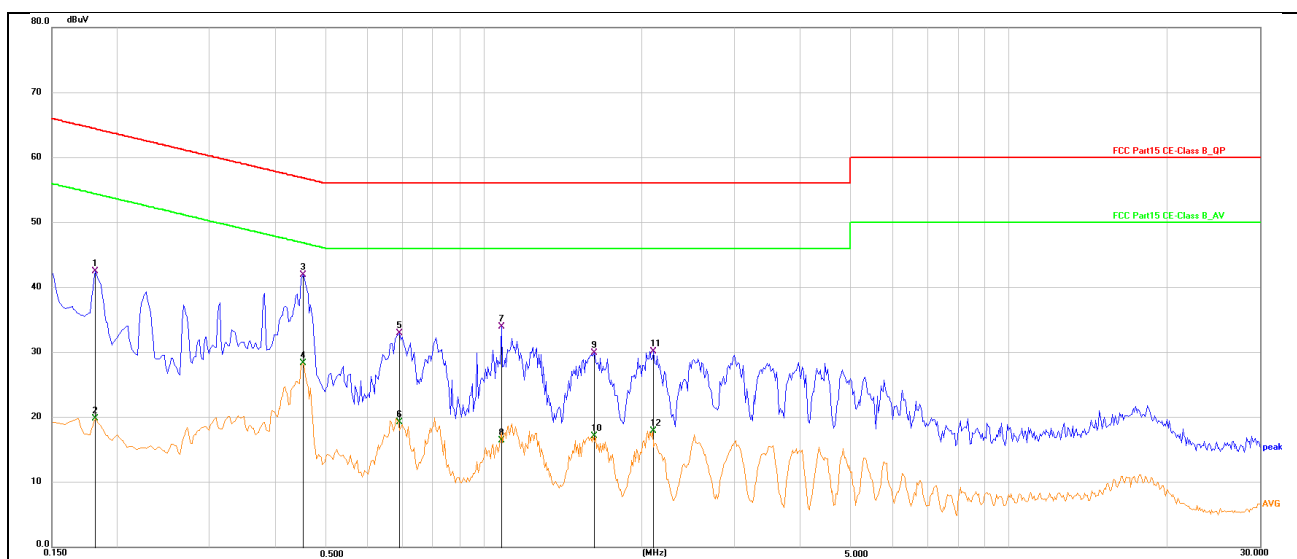


Trace: 1
 Condition : 3m Horizontal
 Temp.(C)/Hum.(%): 24.8(C)/54.8(%)
 Press : 100.2kpa
 Product : Wireless Headphones
 Model No. : PM20
 Power Rating : USB
 Test Engineer : Bowie
 Test Mode : BT_3DH5_2402
 Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	PP 2390.000	26.30	33.89	32.91	0.00	6.90	47.40	54.00	-27.70	Average
2	PK 2390.000	39.26	46.85	32.91	0.00	6.90	47.40	74.00	-34.74	Peak

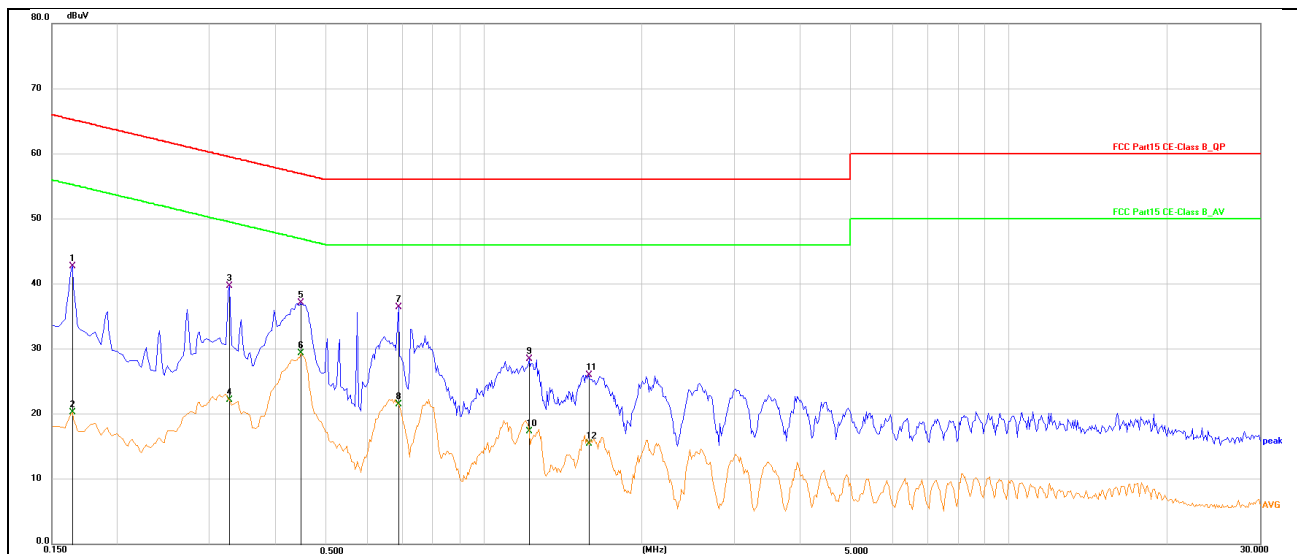
Appendix A.9: Test Results of Conducted Emission

Site:	LAB	Phase: L1	Temperature(°C):26.1(°C)
Limit:	FCC Part15 CE-Class B_QP	atm.press.: 100.2 kpa	Humidity(%): 58.1%RH
EUT:	Wireless Headphones	Test Time:	2024/8/26 10:58:15
M/N.:	HPBT3BLKPRM	Power Rating:	AC120/60Hz
Mode:	Bluetooth connecting	Test Engineer:	linson
Note:			



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1814	32.24	10.18	42.42	64.42	-22.00	QP
2	0.1814	9.61	10.18	19.79	54.42	-34.63	AVG
3	0.4515	31.76	10.16	41.92	56.85	-14.93	QP
4	0.4515	18.17	10.16	28.33	46.85	-18.52	AVG
5	0.6900	22.77	10.20	32.97	56.00	-23.03	QP
6	0.6900	9.08	10.20	19.28	46.00	-26.72	AVG
7	1.0770	23.55	10.34	33.89	56.00	-22.11	QP
8	1.0770	6.09	10.34	16.43	46.00	-29.57	AVG
9	1.6214	19.58	10.27	29.85	56.00	-26.15	QP
10	1.6214	6.88	10.27	17.15	46.00	-28.85	AVG
11	2.1074	19.87	10.24	30.11	56.00	-25.89	QP
12	2.1074	7.61	10.24	17.85	46.00	-28.15	AVG

Site:	LAB	Phase: N	Temperature(°C):26.1(°C)
Limit:	FCC Part15 CE-Class B_QP	atm.press.: 100.2 kpa	Humidity(%): 58.1%RH
EUT:	Wireless Headphones	Test Time:	2024/8/26 11:05:28
M/N.:	HPBT3BLKPRM	Power Rating:	AC120/60Hz
Mode:	Bluetooth connecting	Test Engineer:	linson
Note:			



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1635	32.52	10.16	42.68	65.28	-22.60	QP
2	0.1635	10.04	10.16	20.20	55.28	-35.08	AVG
3	0.3255	29.48	10.13	39.61	59.57	-19.96	QP
4	0.3255	12.03	10.13	22.16	49.57	-27.41	AVG
5	0.4470	26.85	10.23	37.08	56.93	-19.85	QP
6	0.4470	19.16	10.23	29.39	46.93	-17.54	AVG
7	0.6854	26.21	10.25	36.46	56.00	-19.54	QP
8	0.6854	11.28	10.25	21.53	46.00	-24.47	AVG
9	1.2164	18.26	10.20	28.46	56.00	-27.54	QP
10	1.2164	7.10	10.20	17.30	46.00	-28.70	AVG
11	1.5809	15.74	10.26	26.00	56.00	-30.00	QP
12	1.5809	5.17	10.26	15.43	46.00	-30.57	AVG