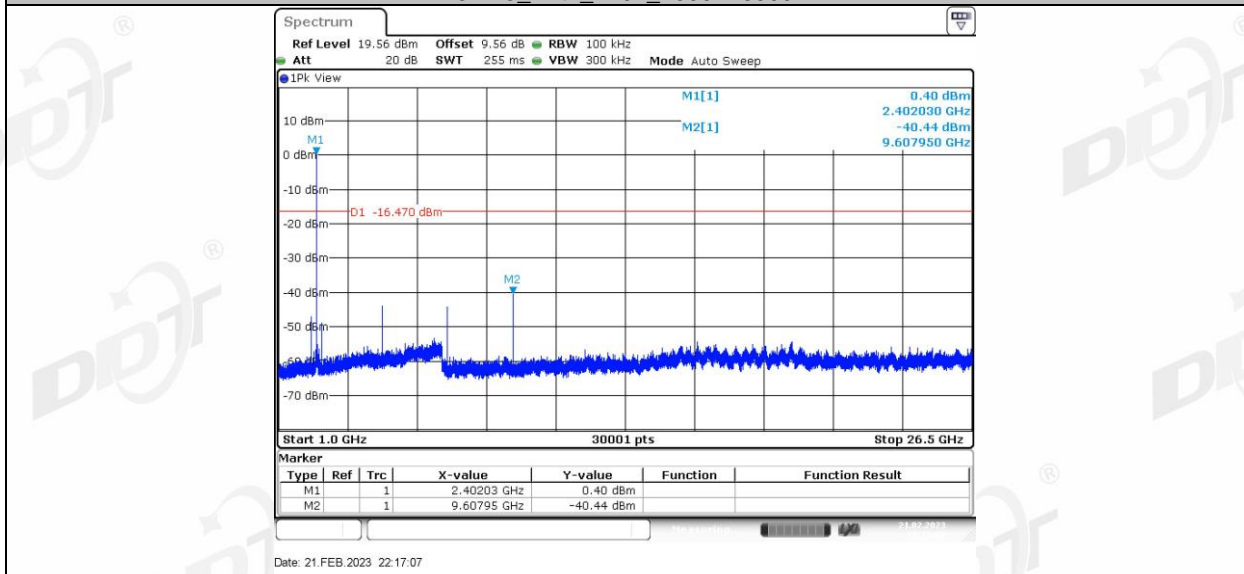
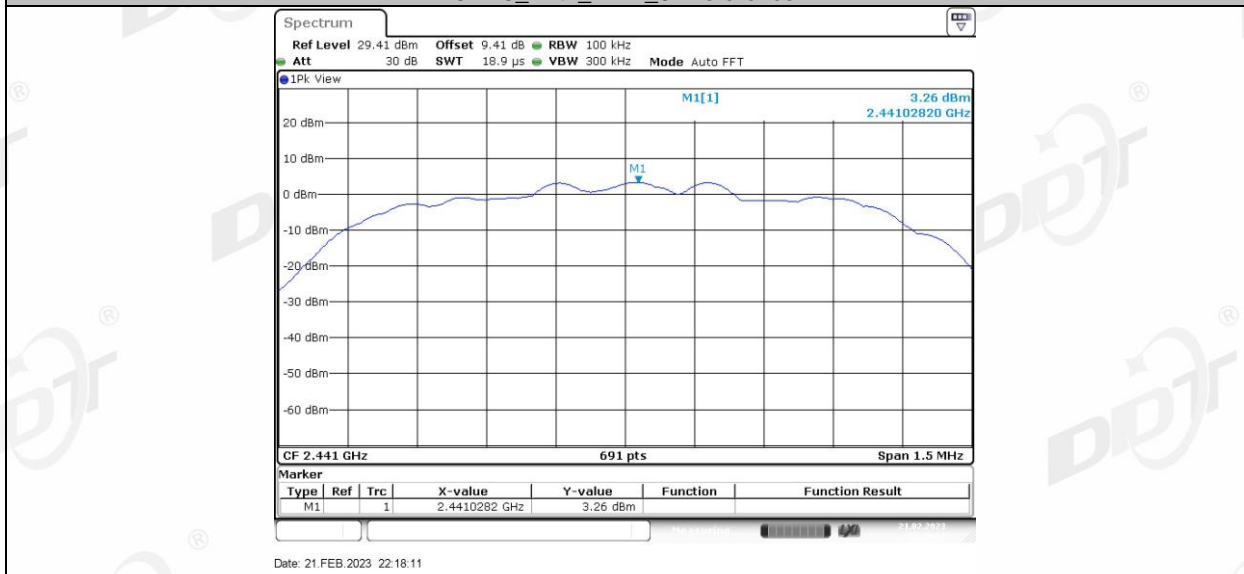


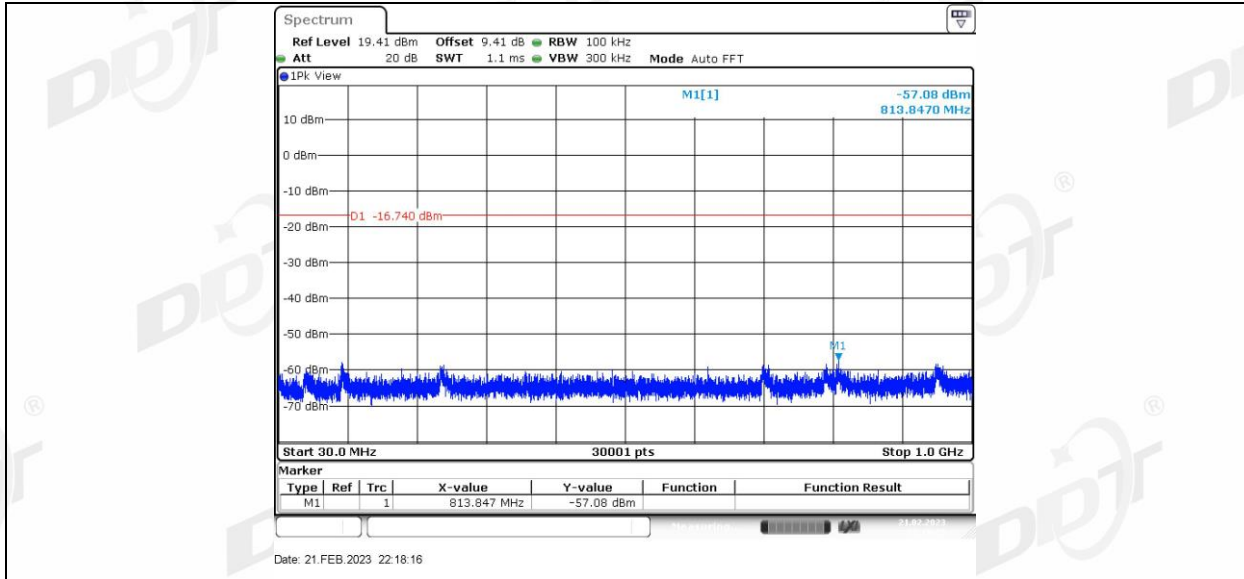
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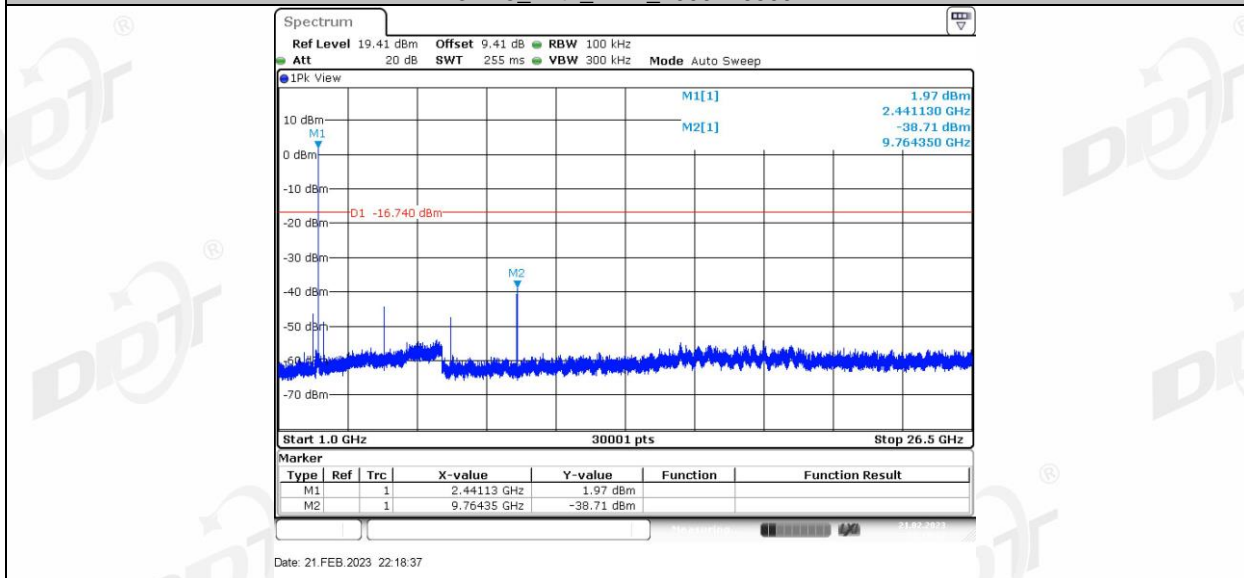
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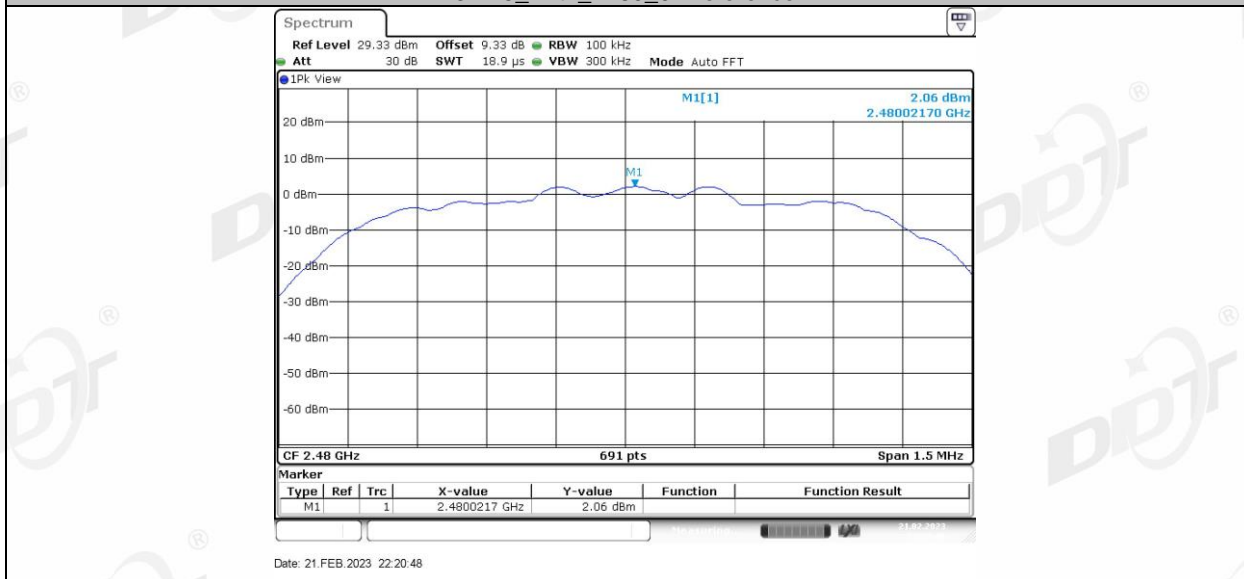
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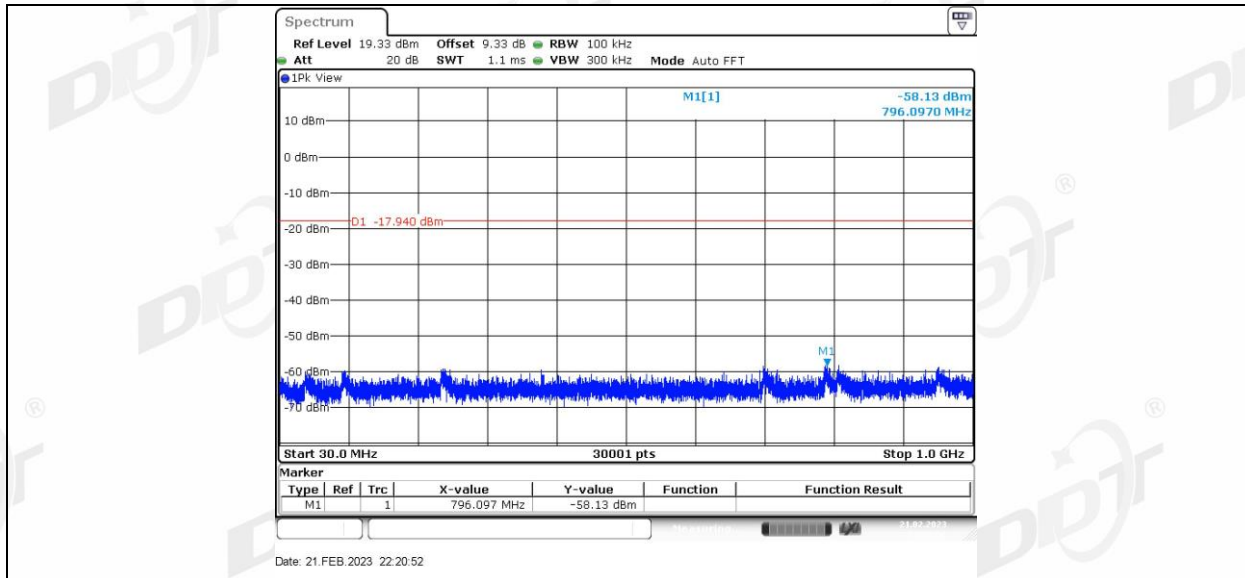
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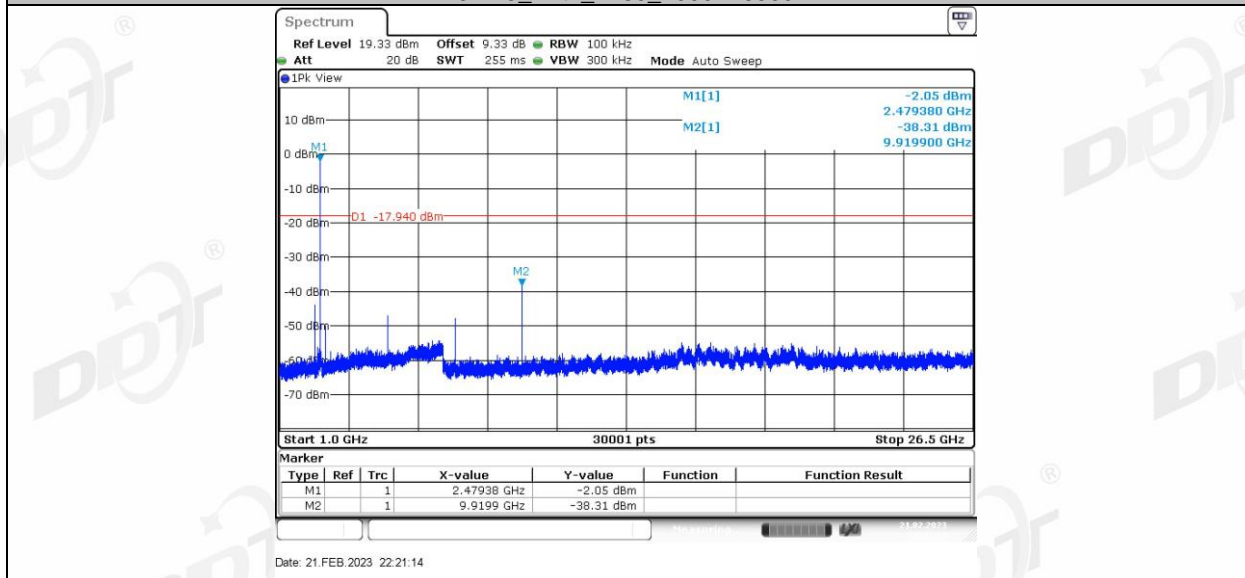
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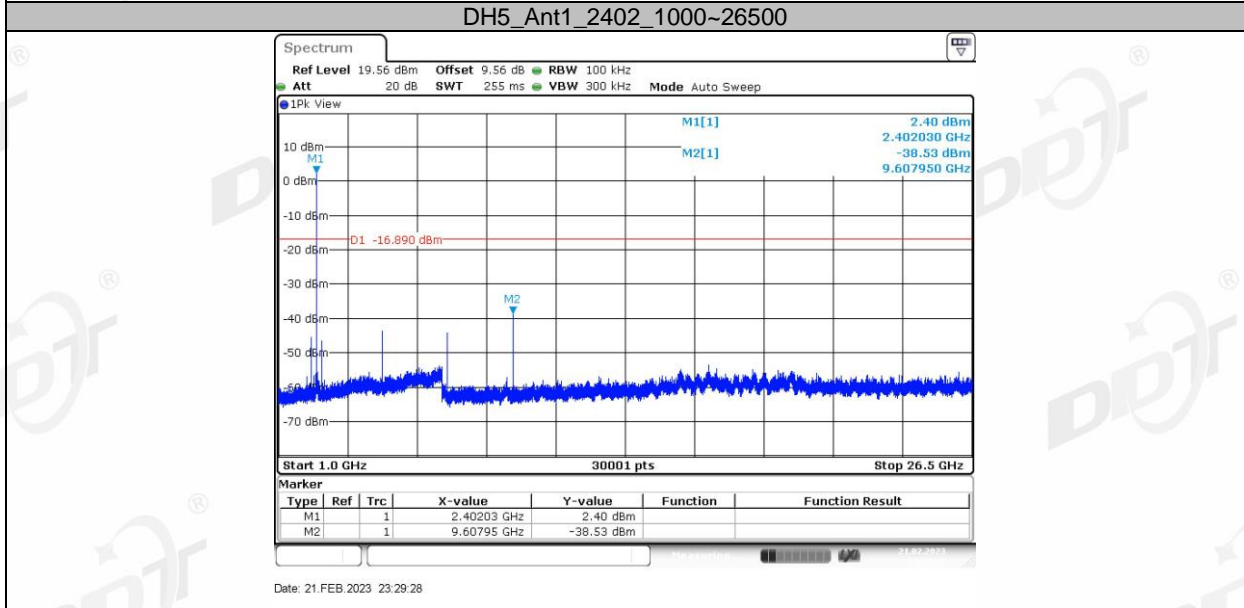
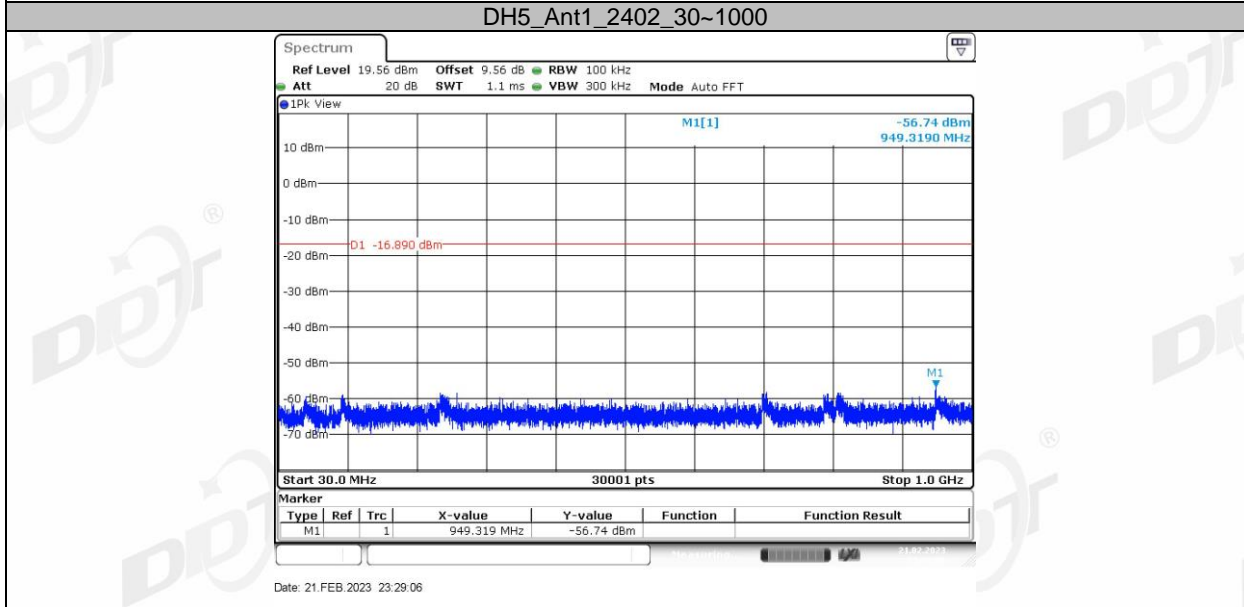
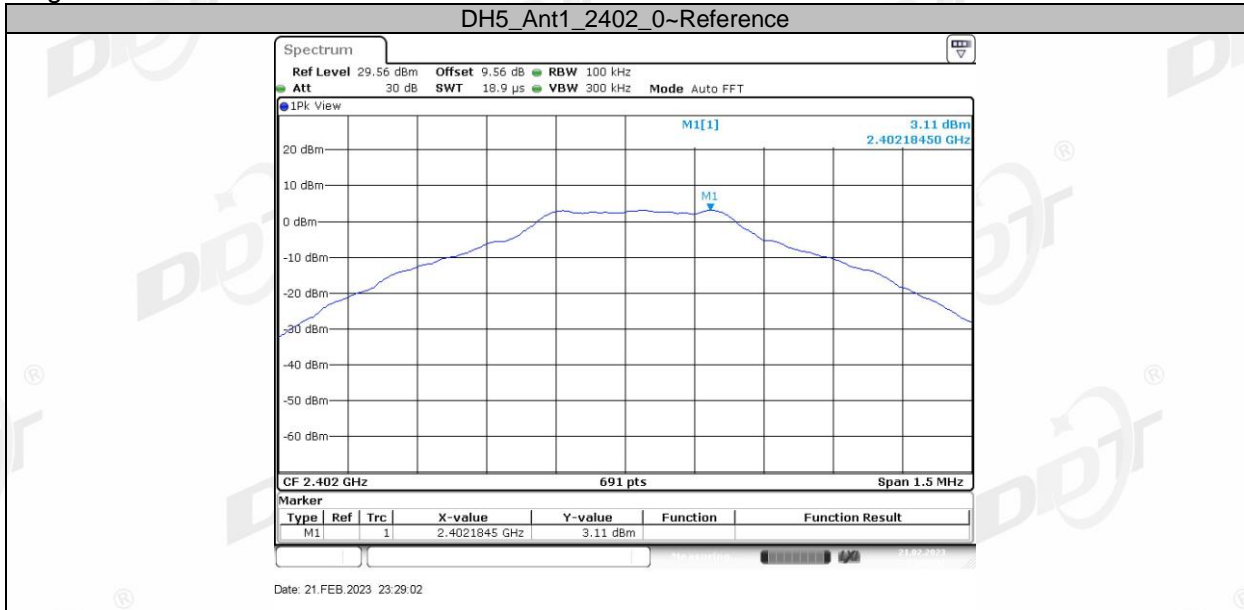
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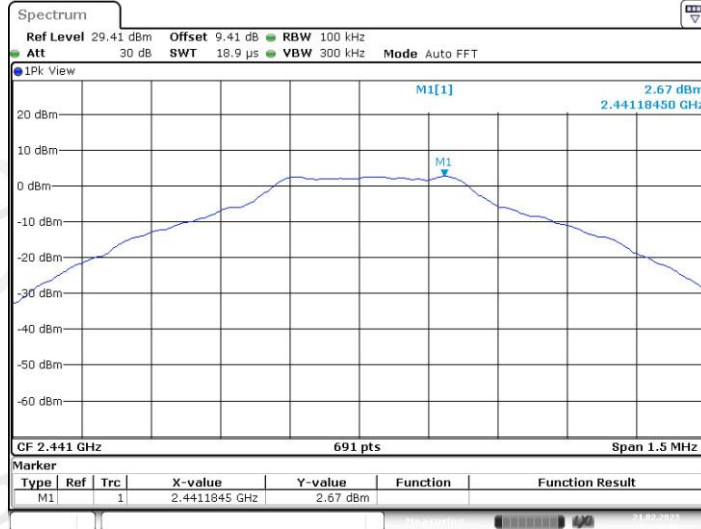
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Right side:

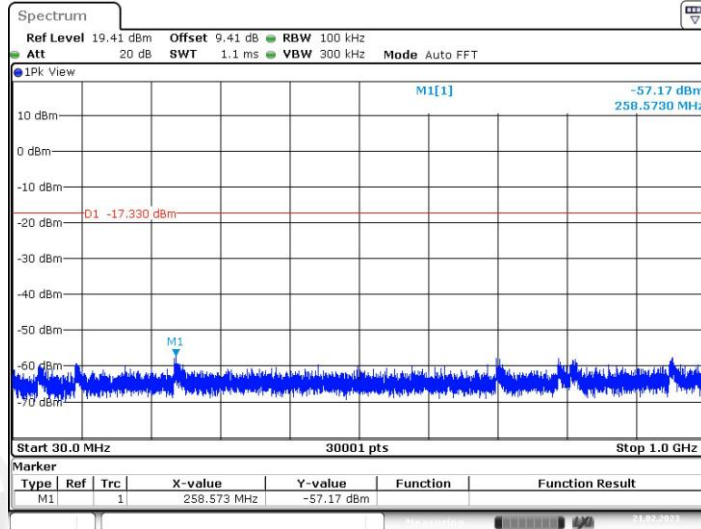


DH5_Ant1_2441_0-Reference



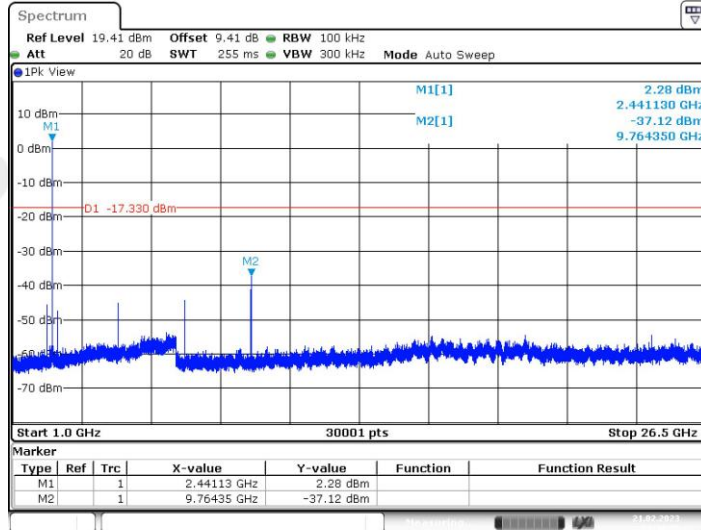
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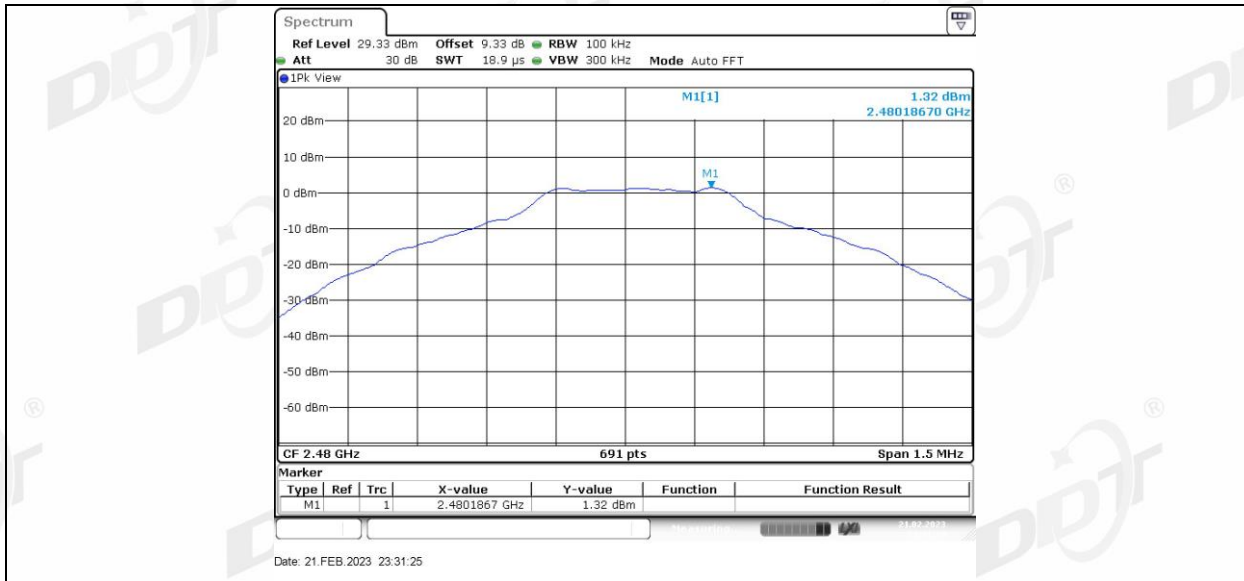
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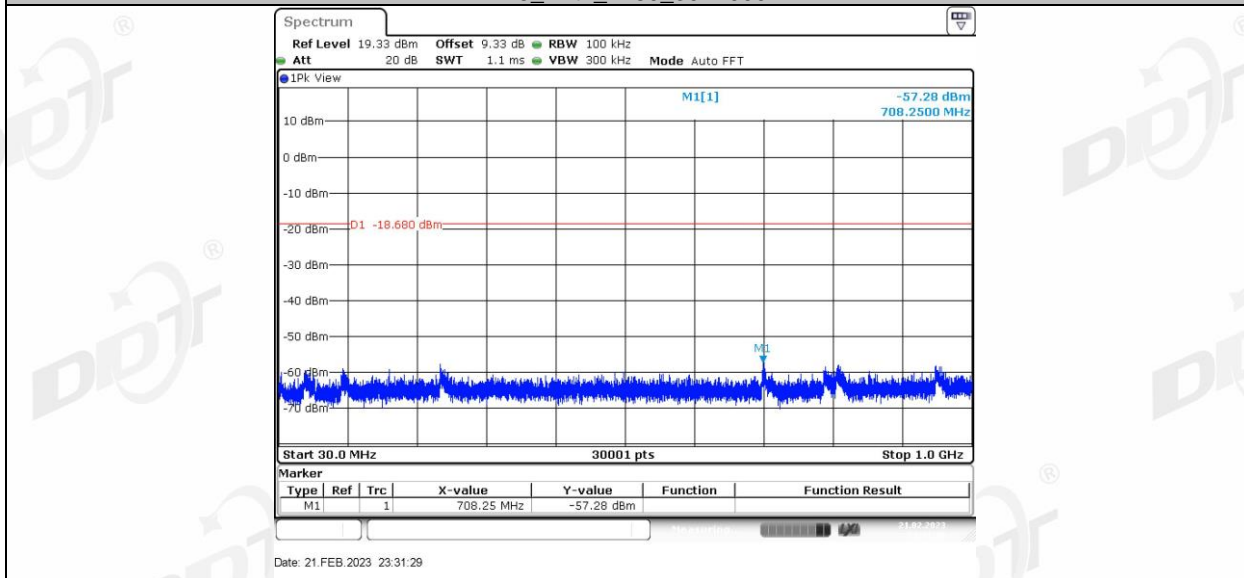


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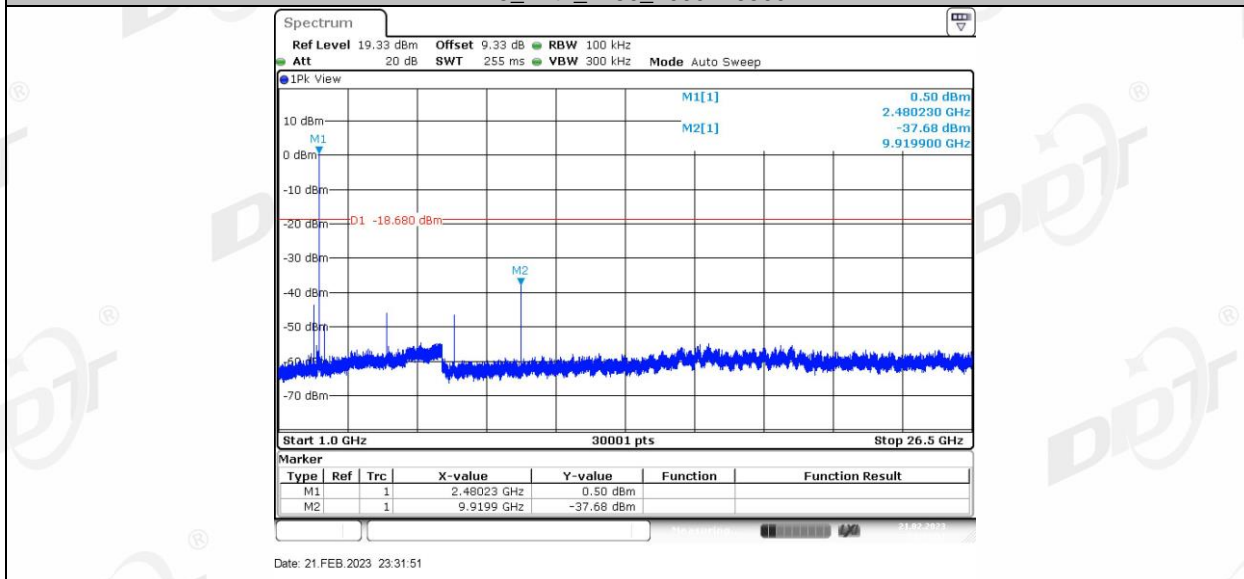
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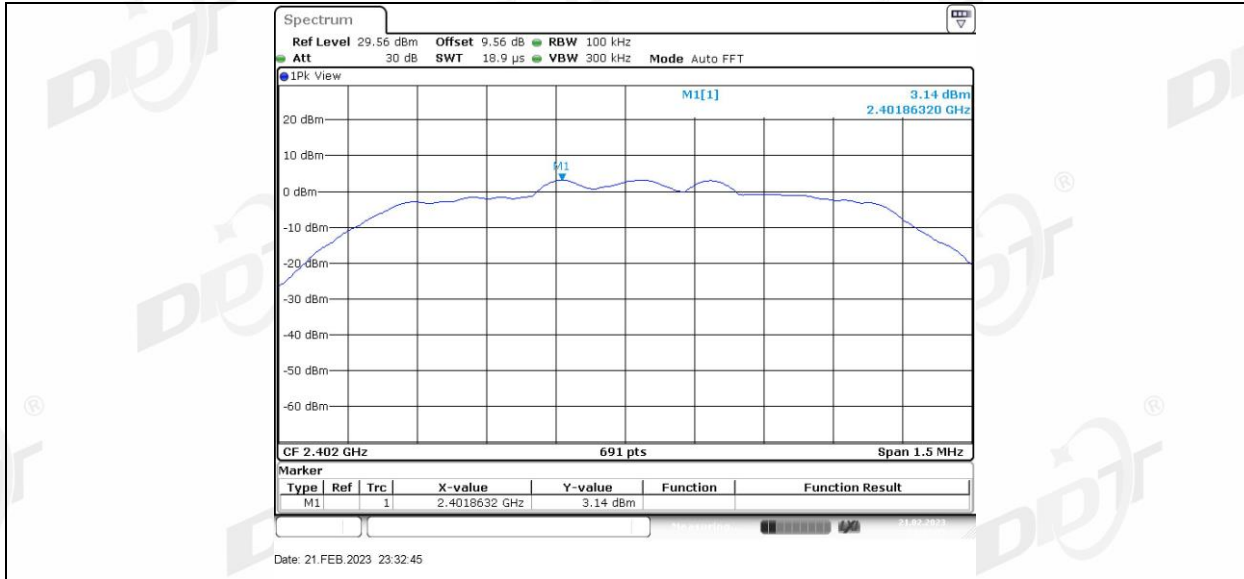
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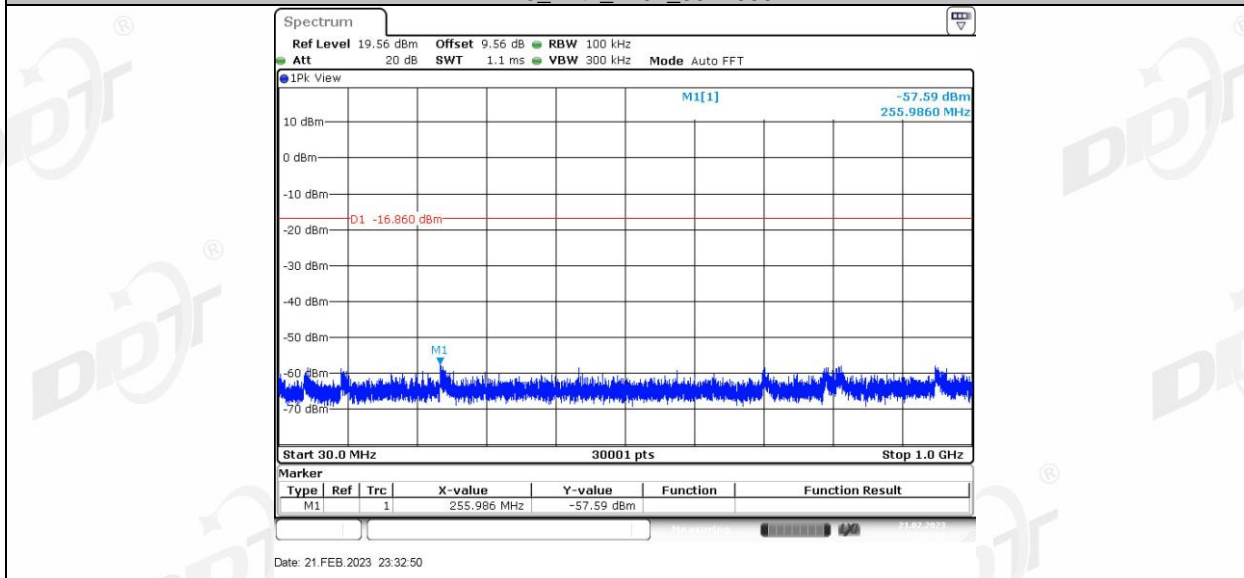
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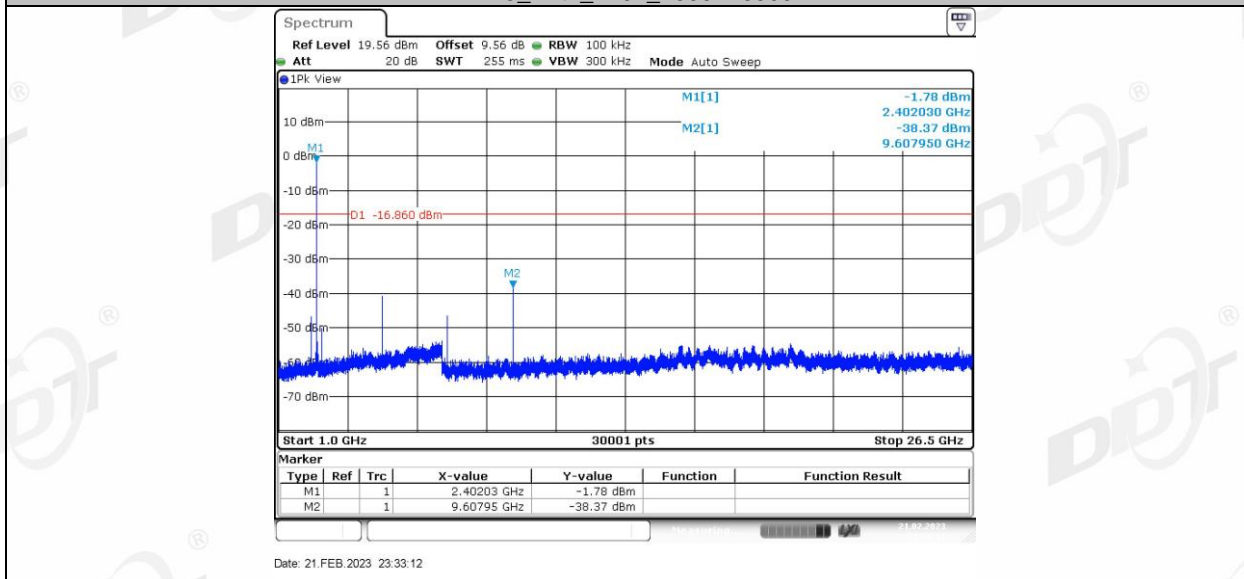
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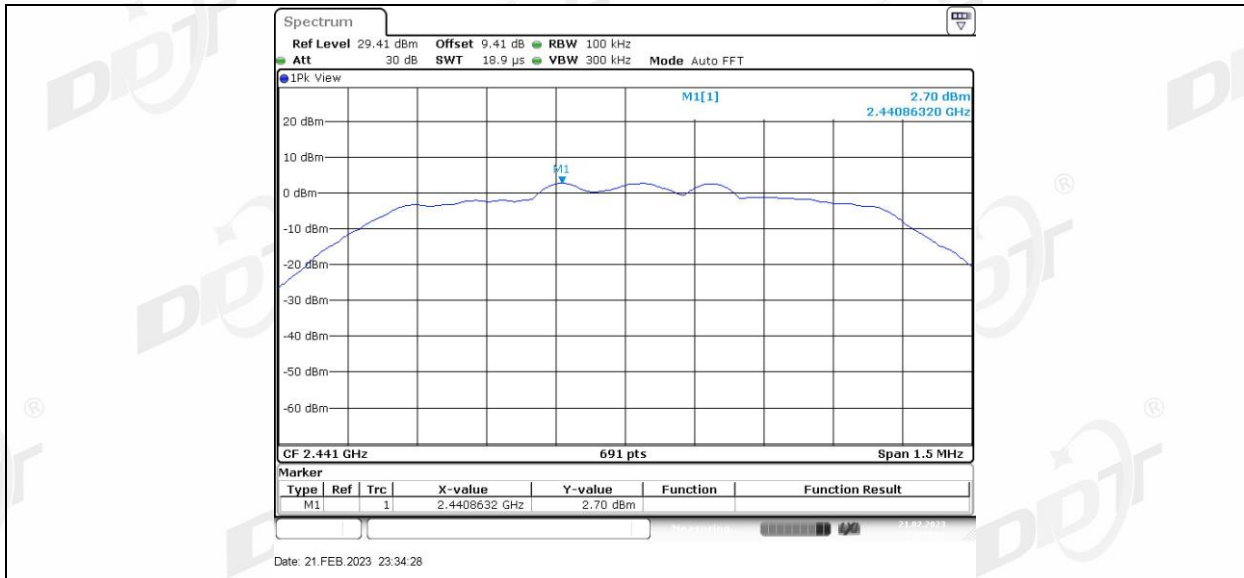
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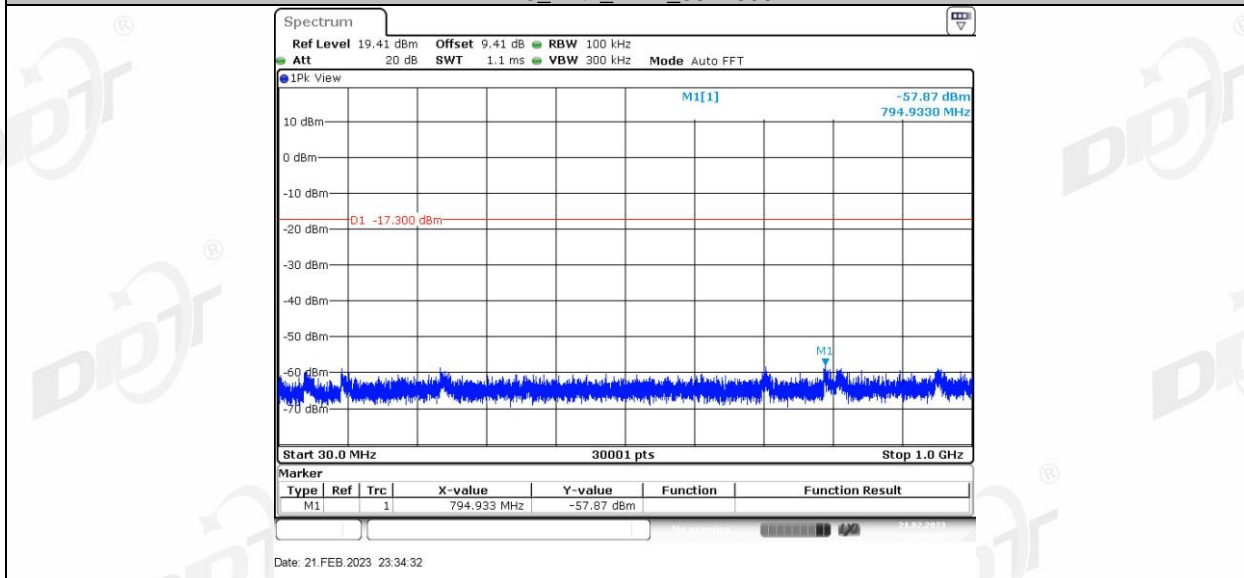
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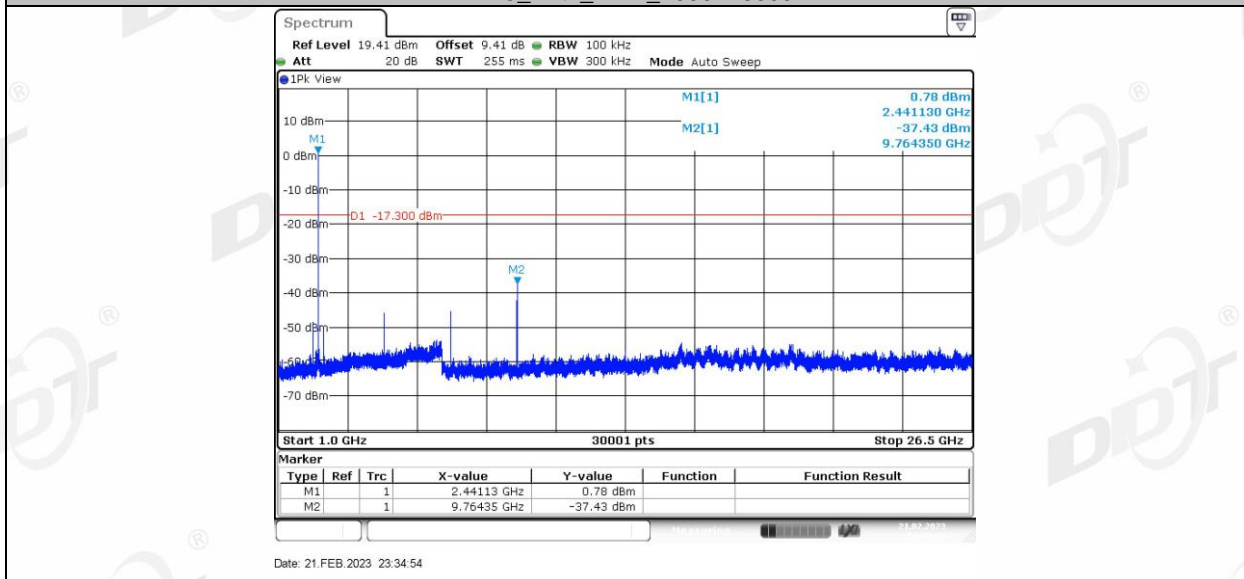
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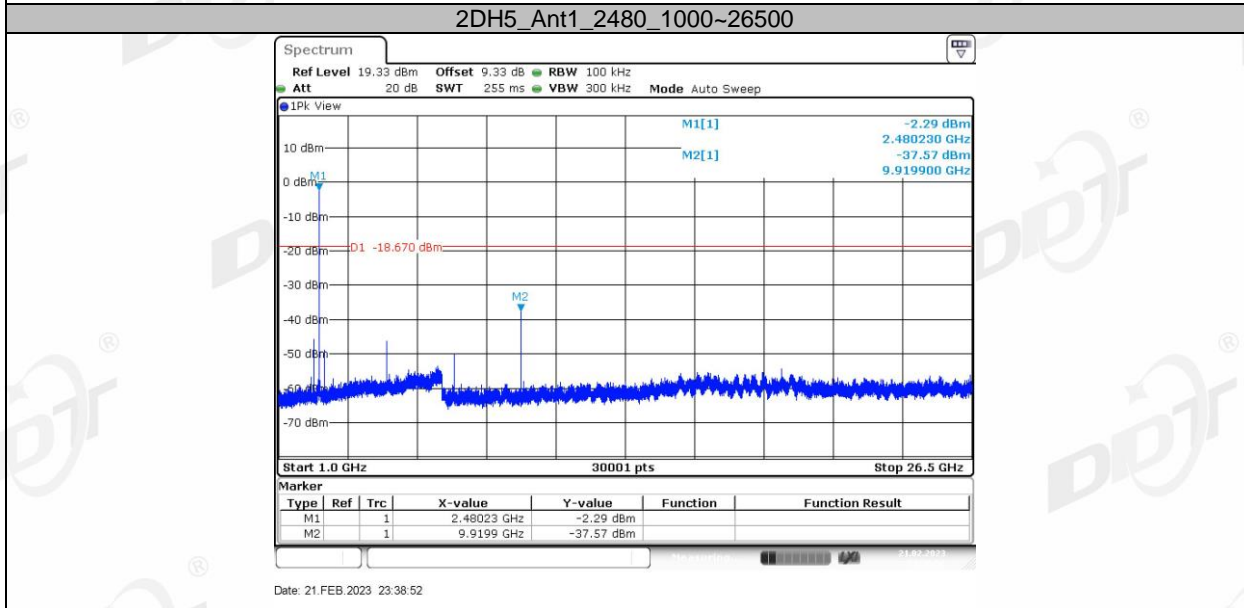
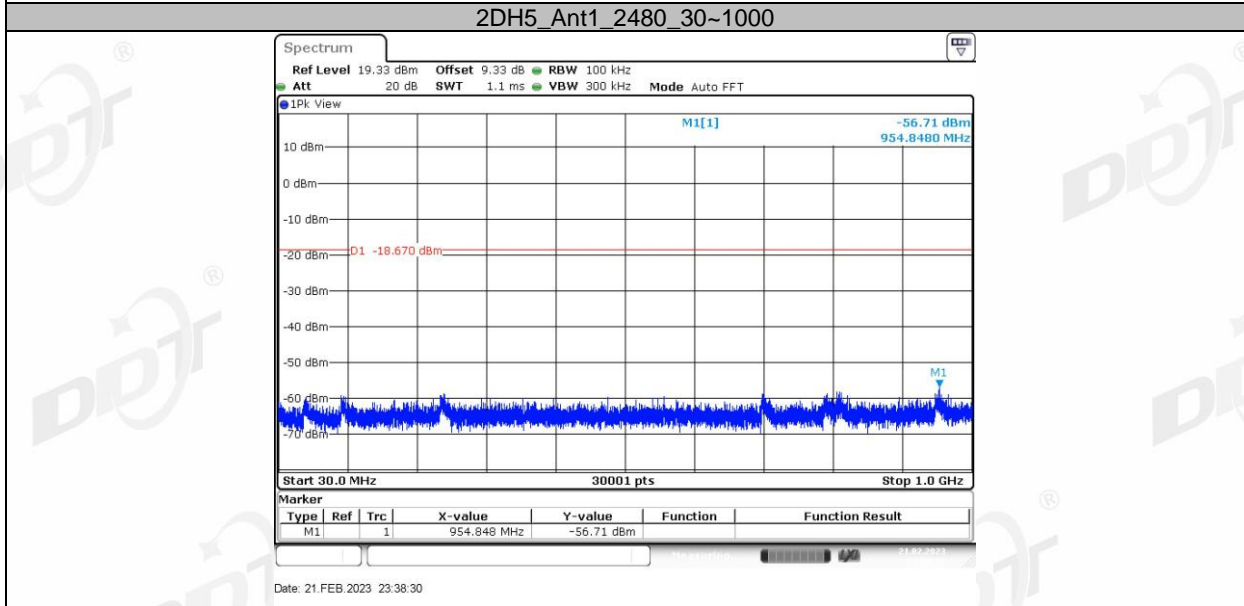
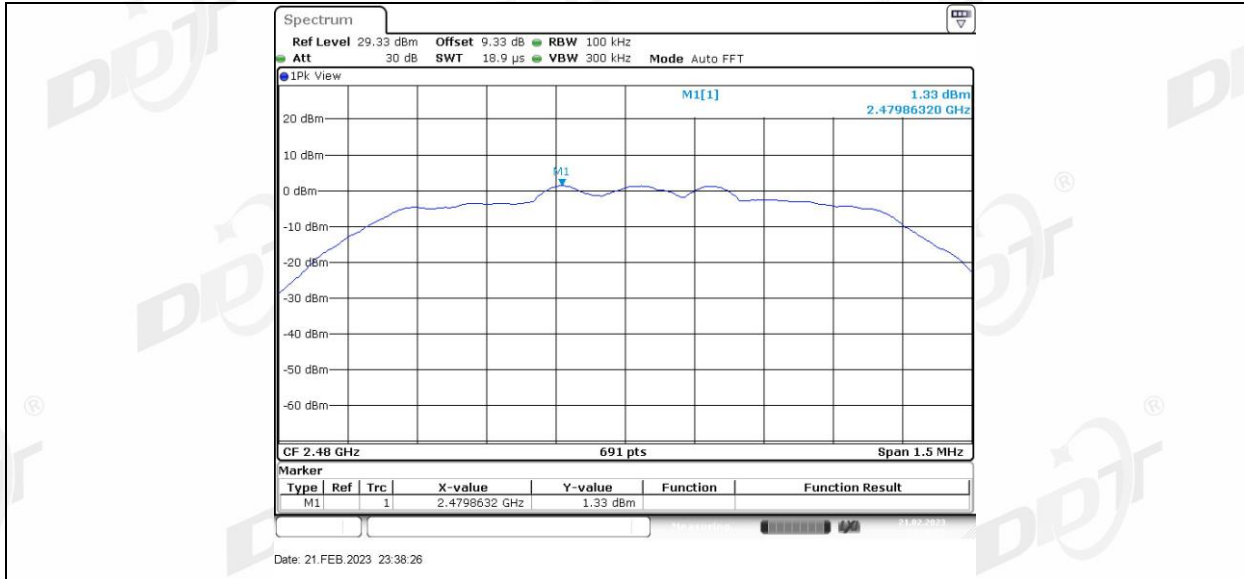
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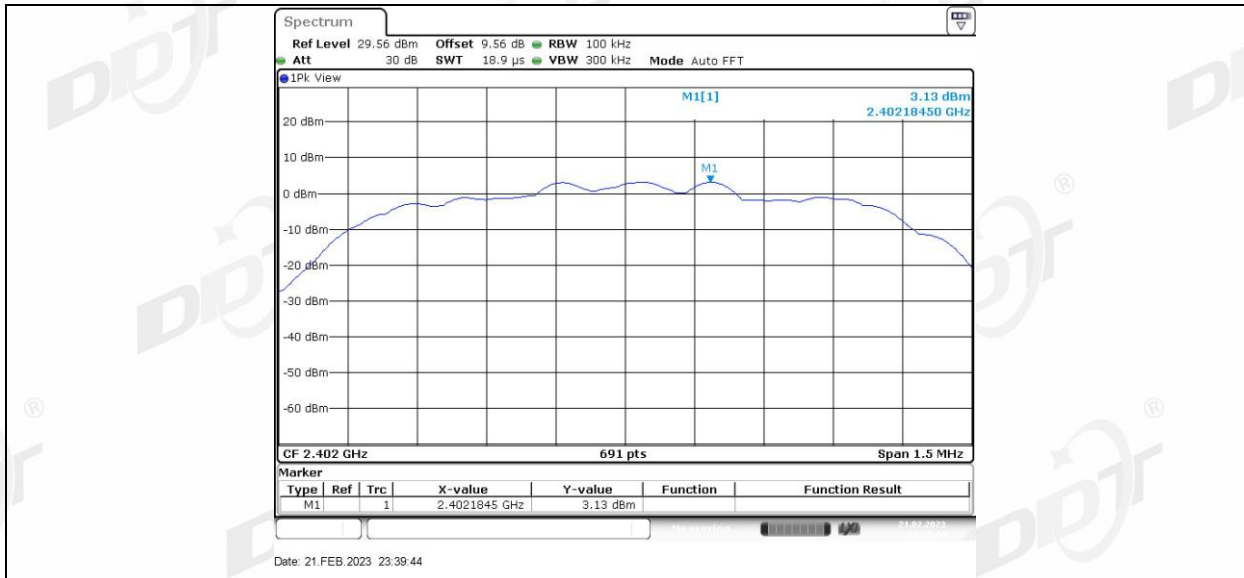


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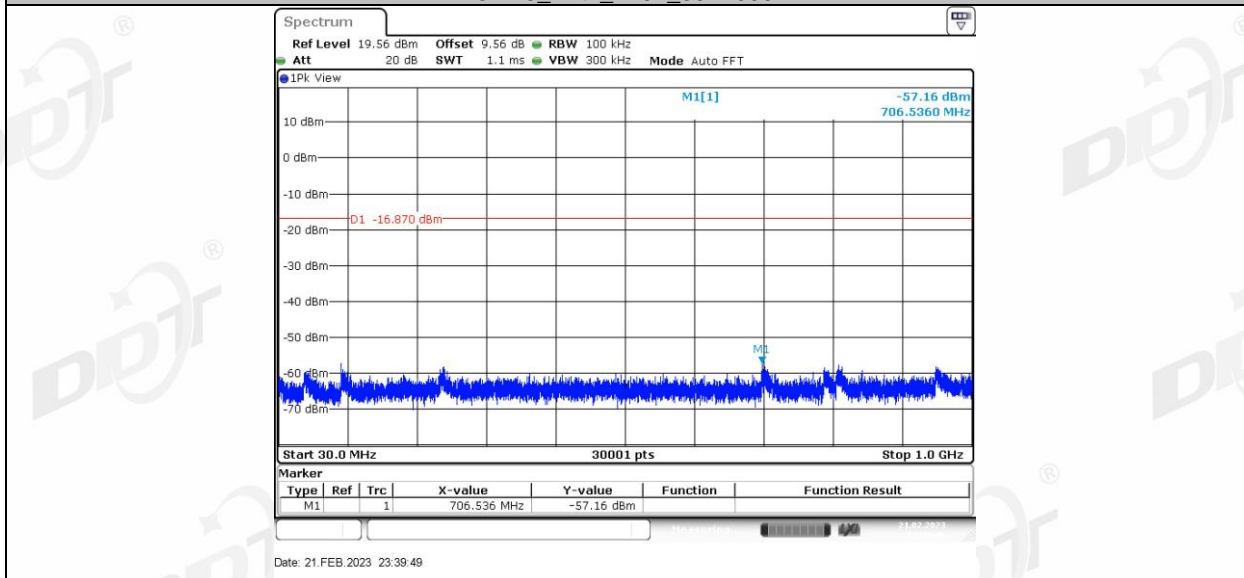


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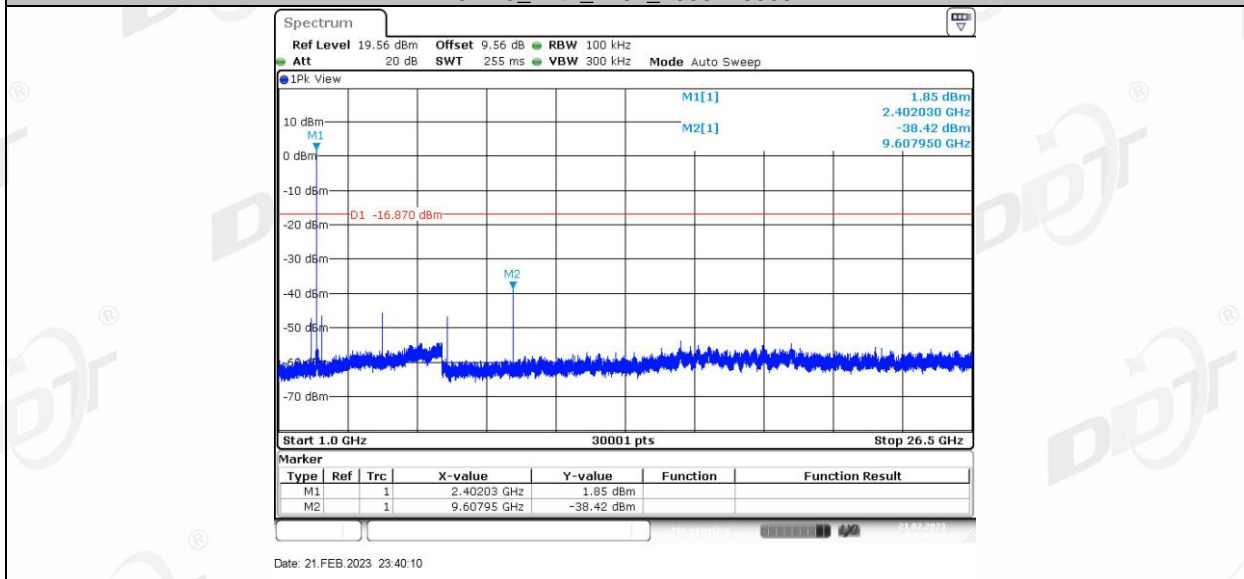




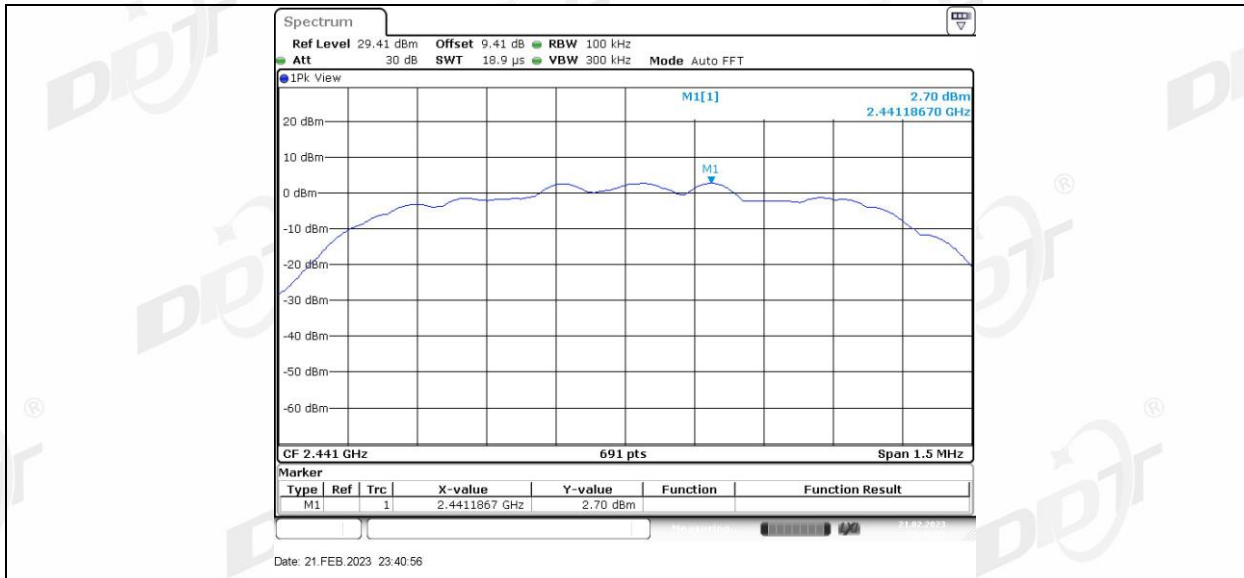
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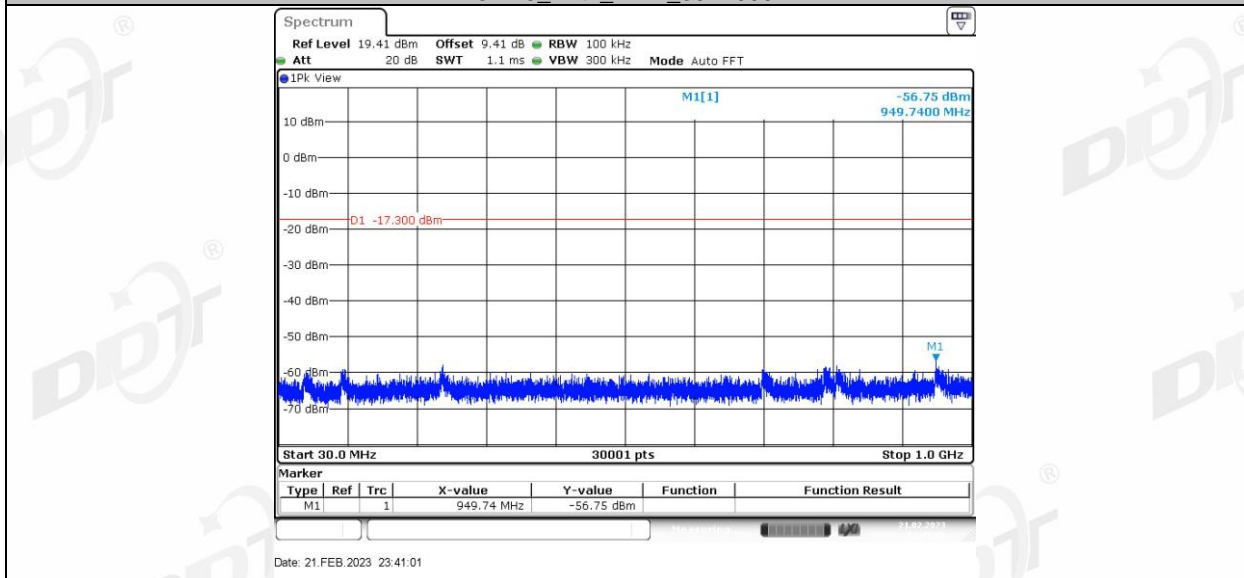
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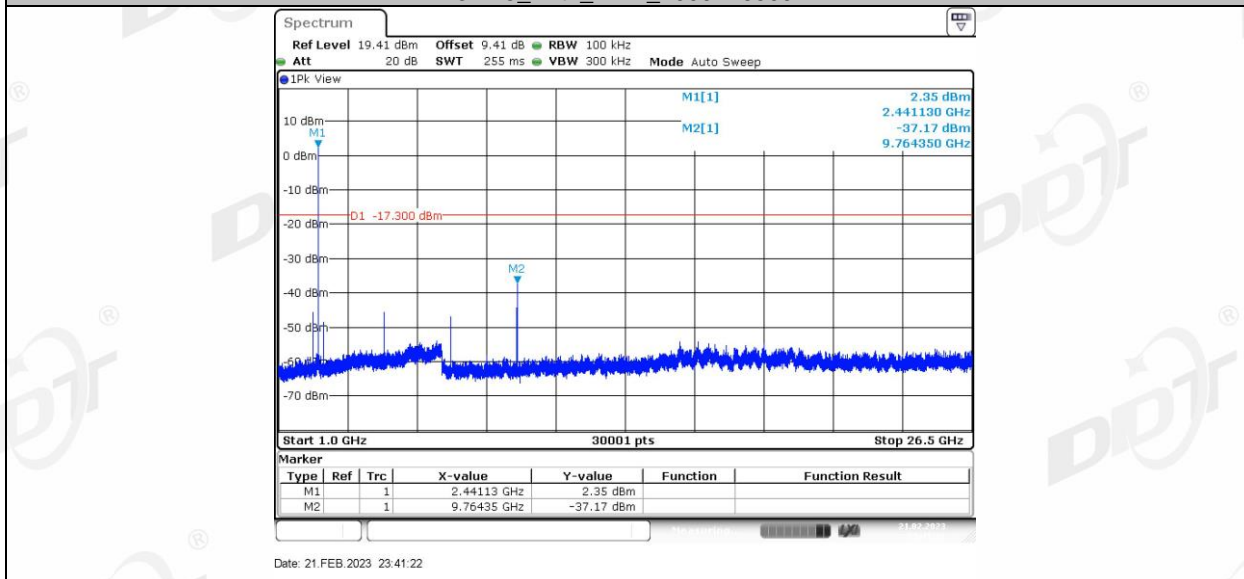
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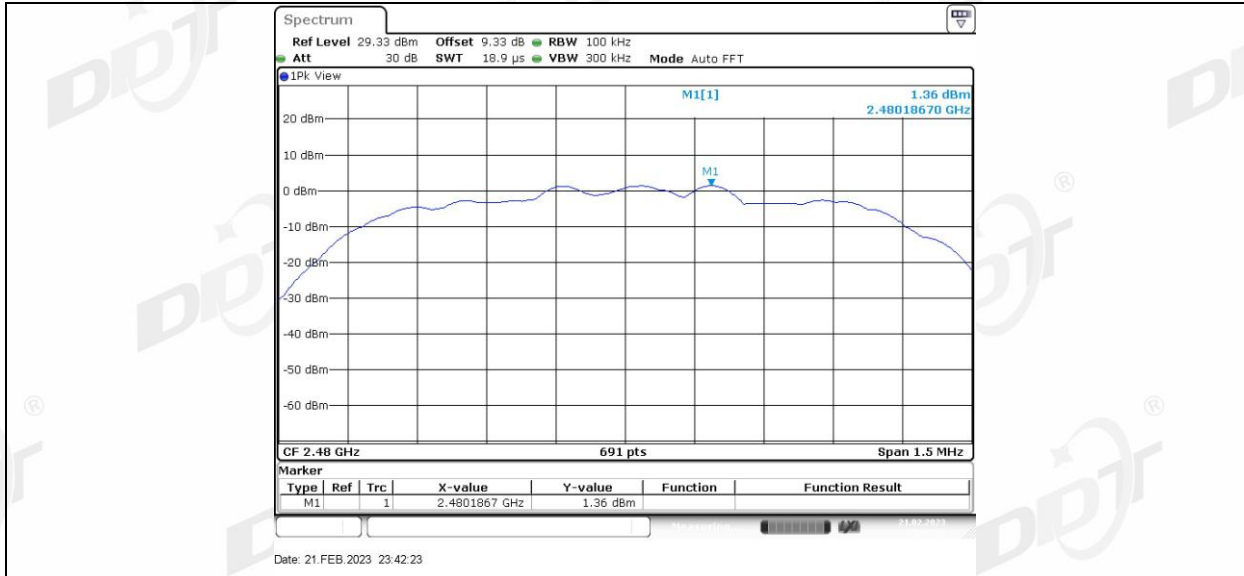
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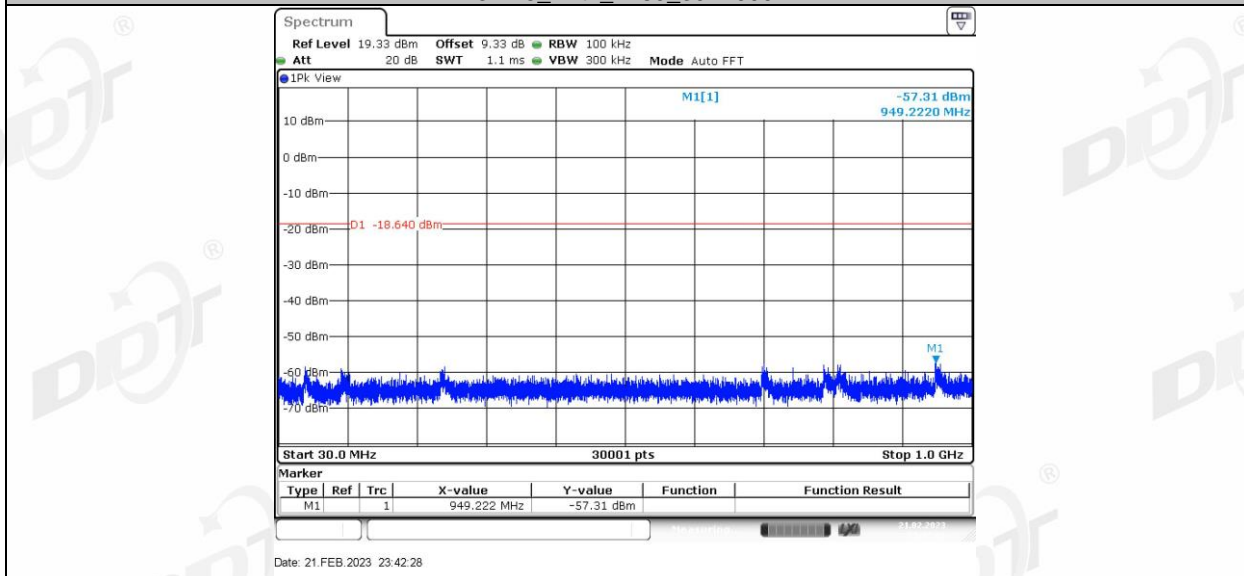
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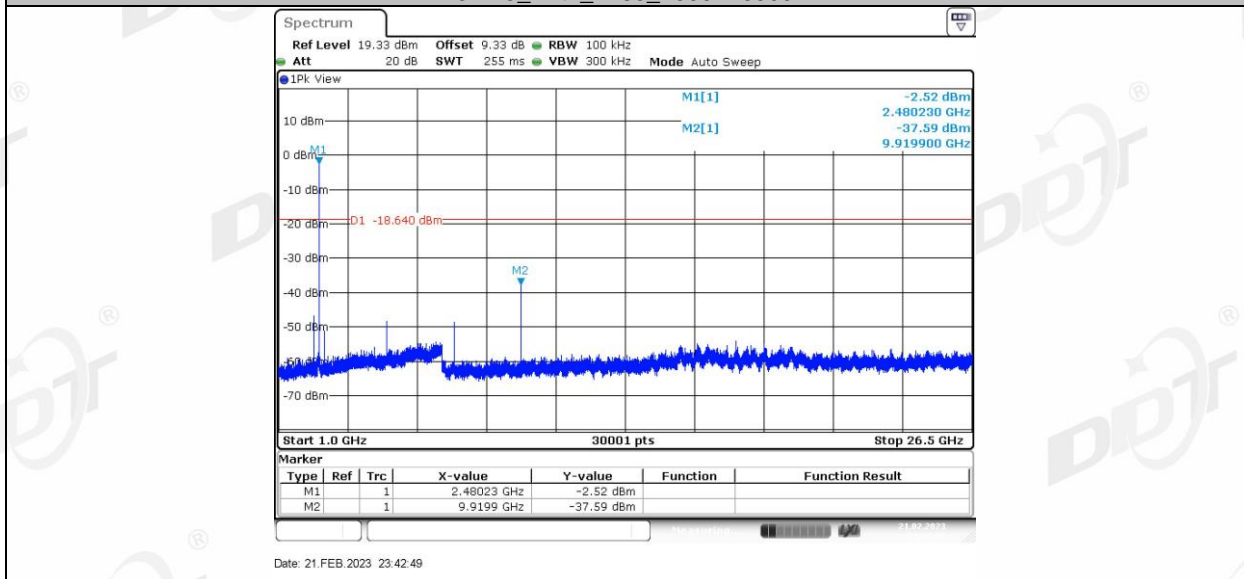
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3DH5_Ant1_2480_30~1000



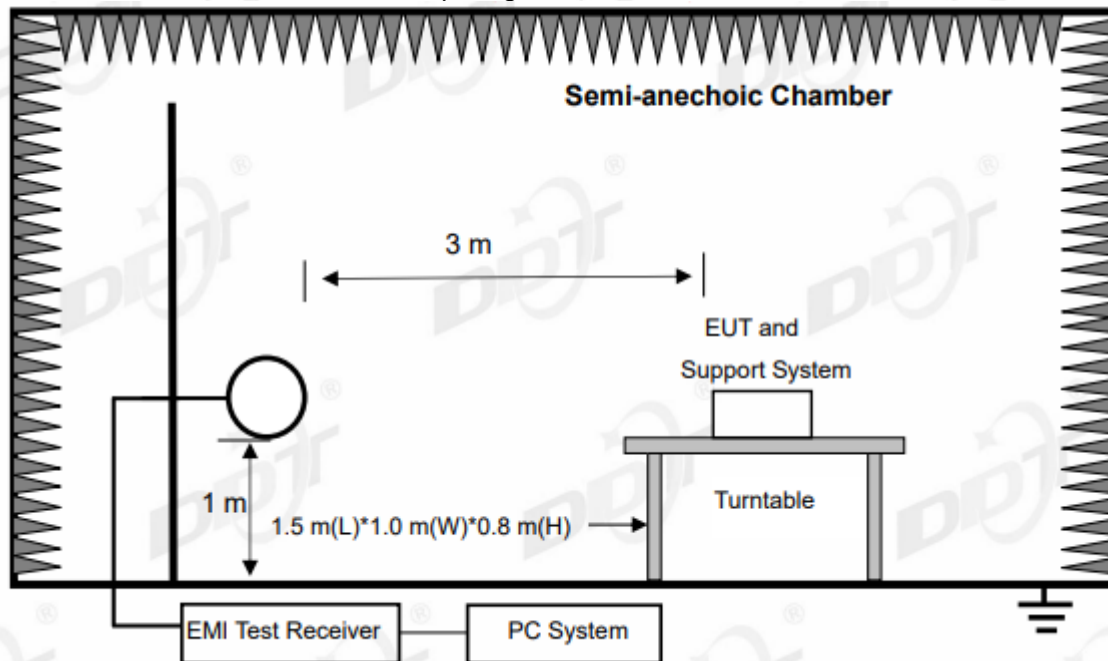
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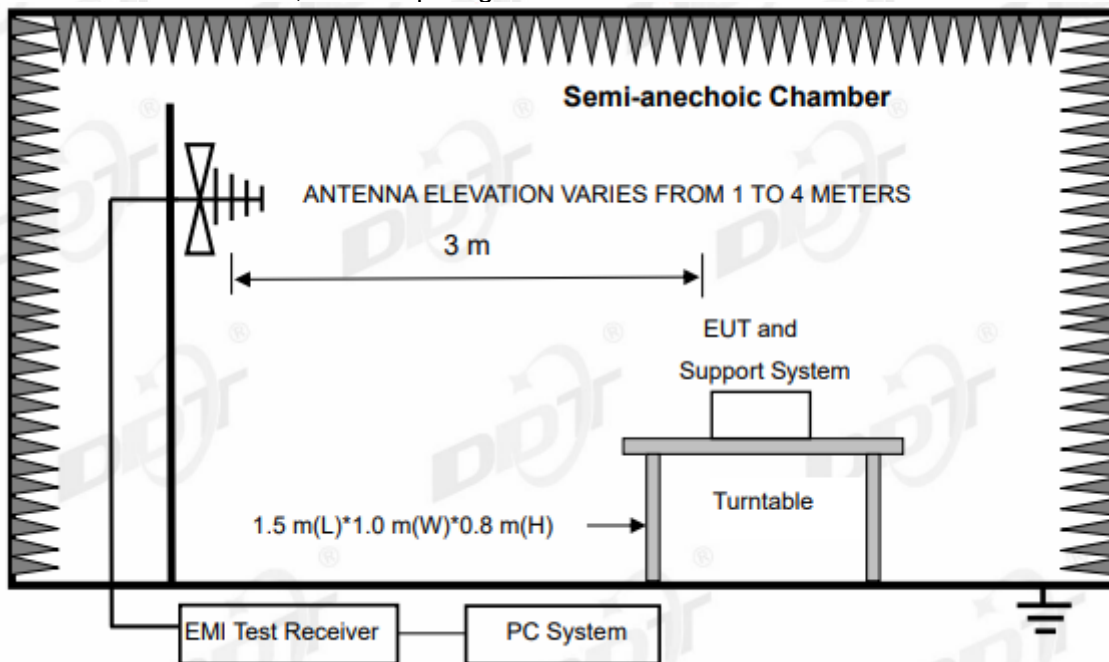
11. Radiated Emission

11.1. Block diagram of test setup

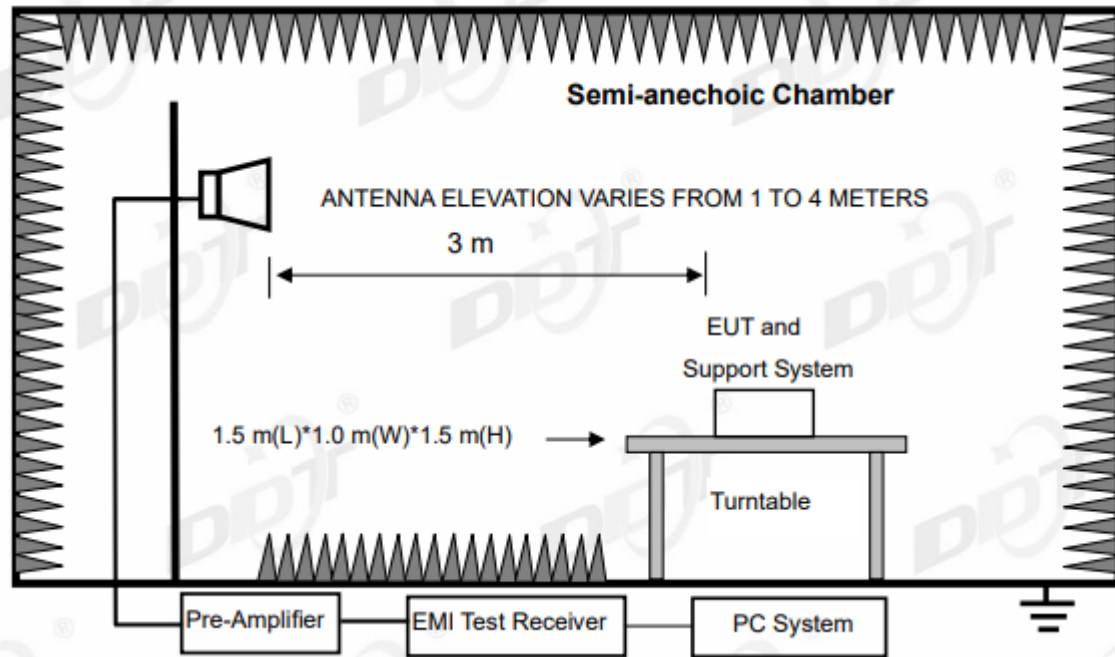
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

11.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

(2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

11.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic

antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

11.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is GFSK Mode)

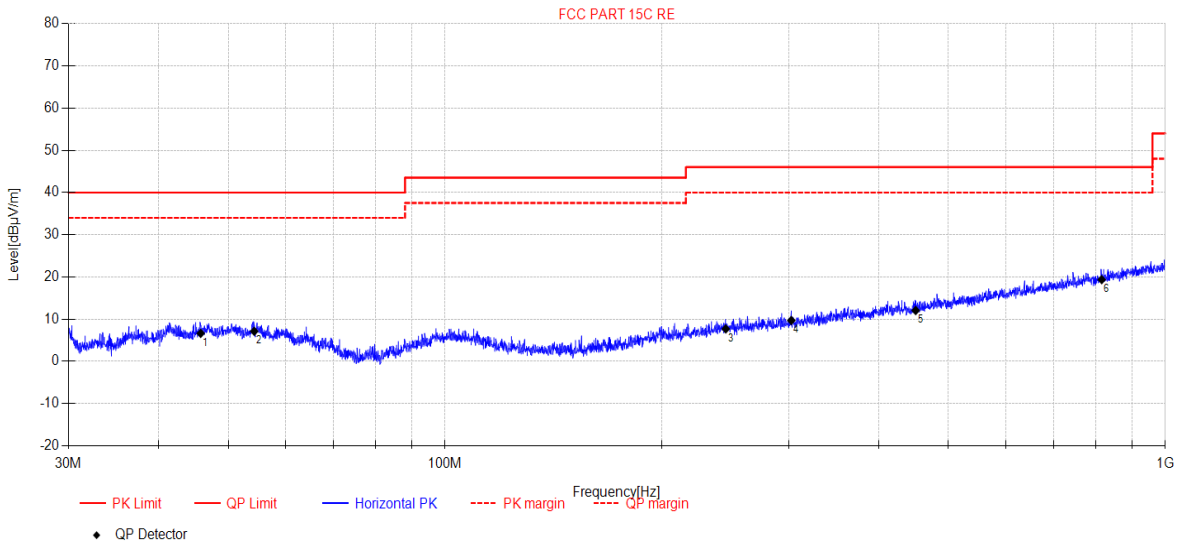
Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK, Tx 2402 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC BELOW
 1G\20230223-194822_H
Memo: BT L



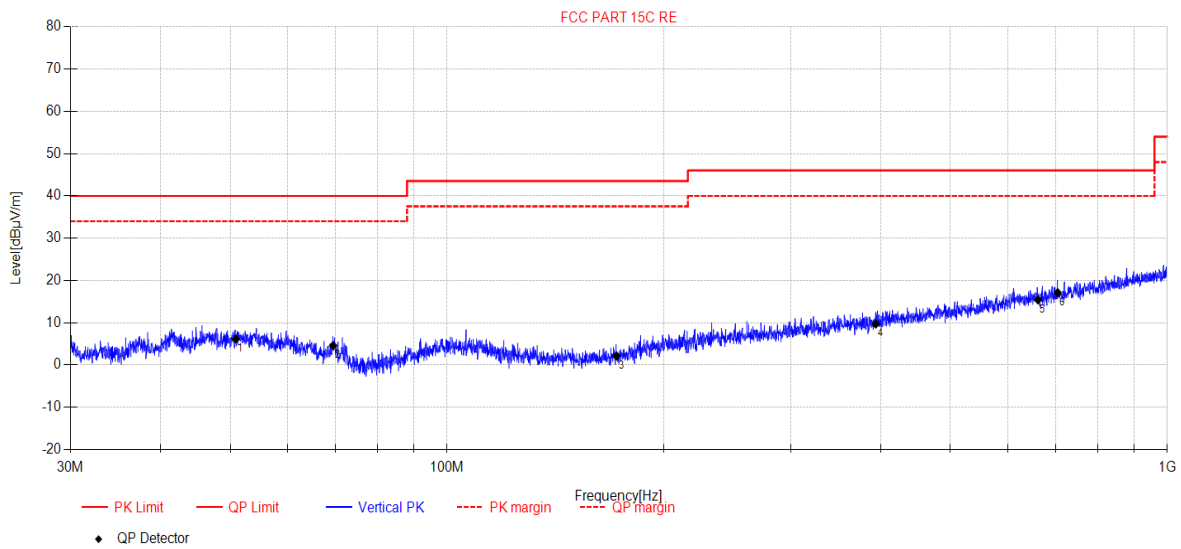
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	45.79	25.06	13.08	0.77	-32.28	6.63	40.00	33.37	QP	Horizontal
2	54.33	25.78	12.77	0.86	-32.28	7.13	40.00	32.87	QP	Horizontal
3	245.33	25.48	12.21	2.20	-32.20	7.69	46.00	38.31	QP	Horizontal
4	302.55	26.2	13.35	2.45	-32.32	9.68	46.00	36.32	QP	Horizontal
5	450.26	25.39	16.11	3.00	-32.45	12.05	46.00	33.95	QP	Horizontal
6	816.00	26.46	21.42	4.18	-32.69	19.37	46.00	26.63	QP	Horizontal

Note:

1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC BELOW 1G\20230223-194906_V
Memo: BT L



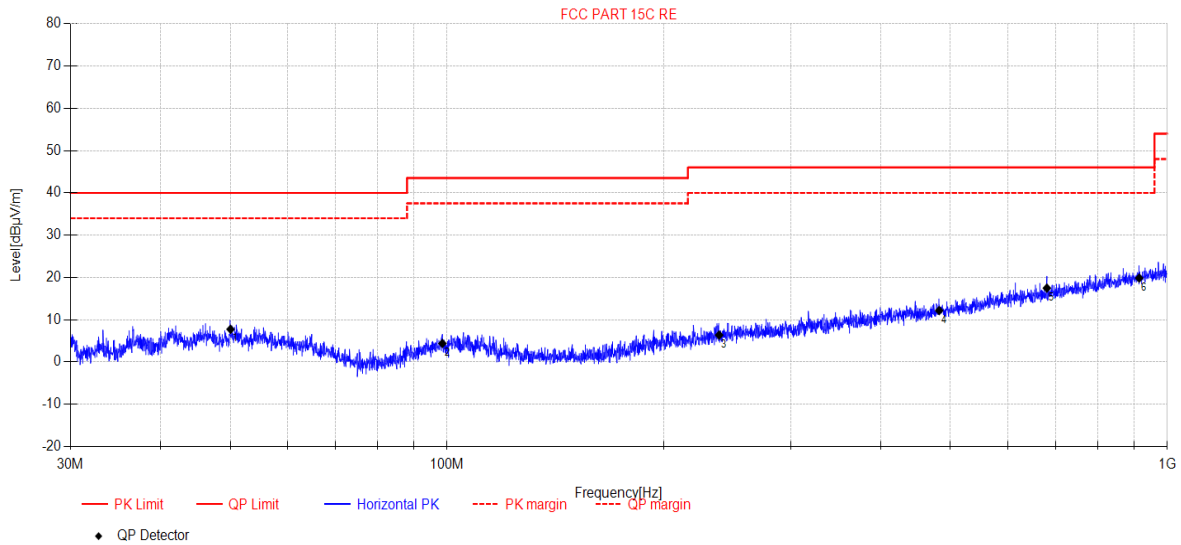
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	50.90	24.51	13.10	0.82	-32.28	6.15	40.00	33.85	QP	Vertical
2	69.49	27.13	8.70	1.04	-32.27	4.60	40.00	35.40	QP	Vertical
3	171.93	23.85	8.69	1.83	-32.22	2.15	43.50	41.35	QP	Vertical
4	393.82	23.97	15.28	2.83	-32.36	9.72	46.00	36.28	QP	Vertical
5	661.21	25.08	19.42	3.73	-32.81	15.42	46.00	30.58	QP	Vertical
6	704.28	26.04	20.09	3.84	-32.86	17.11	46.00	28.89	QP	Vertical

Note:

1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
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 1G\20230223-195154_H
Memo: BT R



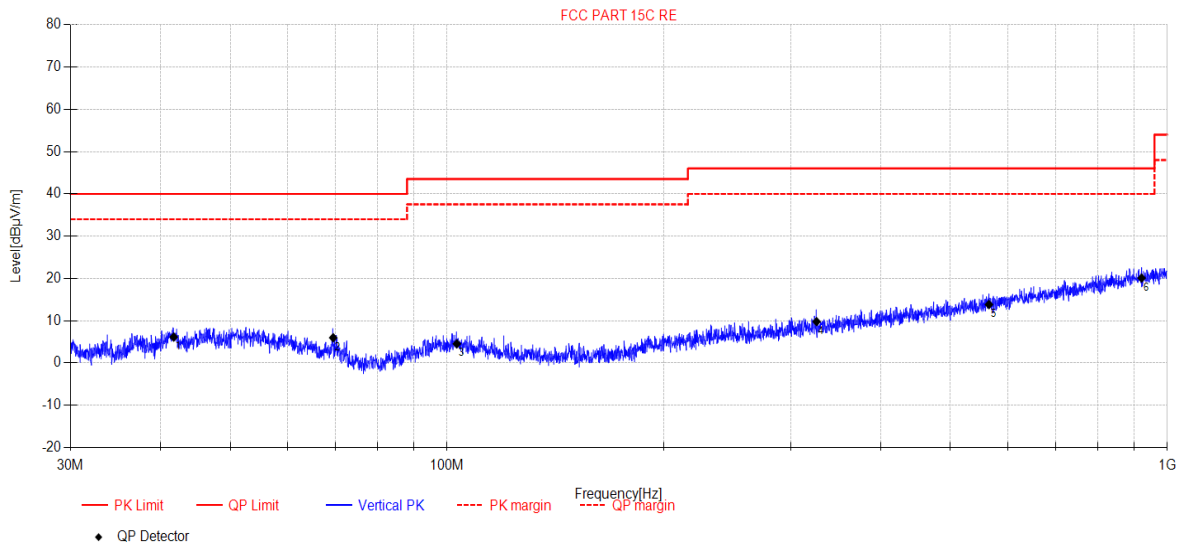
Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	50.05	26.11	13.10	0.81	-32.28	7.74	40.00	32.26	QP	Horizontal
2	98.53	24.5	10.75	1.38	-32.24	4.39	43.50	39.11	QP	Horizontal
3	238.71	24.42	11.97	2.17	-32.19	6.37	46.00	39.63	QP	Horizontal
4	482.29	24.93	16.65	3.09	-32.50	12.17	46.00	33.83	QP	Horizontal
5	680.49	26.82	19.71	3.78	-32.83	17.48	46.00	28.52	QP	Horizontal
6	914.16	24.94	22.50	4.47	-32.06	19.85	46.00	26.15	QP	Horizontal

Note:

1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC BELOW
 1G\20230223-195208_V
Memo: BT R



Final Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	41.74	25.24	12.45	0.73	-32.28	6.14	40.00	33.86	QP	Vertical
2	69.49	28.51	8.70	1.04	-32.27	5.98	40.00	34.02	QP	Vertical
3	103.20	24.36	11.00	1.42	-32.24	4.54	43.50	38.96	QP	Vertical
4	325.90	25.55	14.02	2.55	-32.33	9.79	46.00	36.21	QP	Vertical
5	565.50	25.06	18.02	3.40	-32.65	13.83	46.00	32.17	QP	Vertical
6	921.24	25.08	22.50	4.49	-31.98	20.09	46.00	25.91	QP	Vertical

Note:

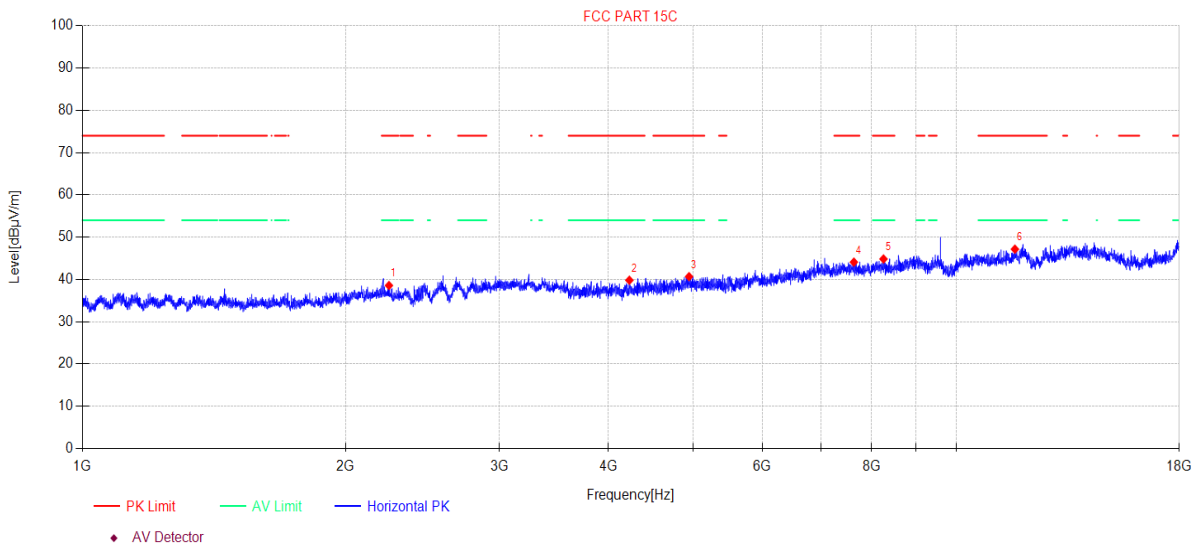
1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\3
Memo: DH5 2402 L

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2242.92	48.25	3.00	27.29	-39.97	38.57	74.00	35.43	PK	Horizontal
2	4226.12	46.79	3.21	31.15	-41.33	39.82	74.00	34.18	PK	Horizontal
3	4945.63	45.72	3.29	32.78	-41.12	40.67	74.00	33.33	PK	Horizontal
4	7636.08	44.84	3.79	36.47	-41.00	44.10	74.00	29.90	PK	Horizontal
5	8255.80	44.42	3.90	37.11	-40.59	44.84	74.00	29.16	PK	Horizontal
6	11671.48	43.04	4.73	38.83	-39.43	47.17	74.00	26.83	PK	Horizontal

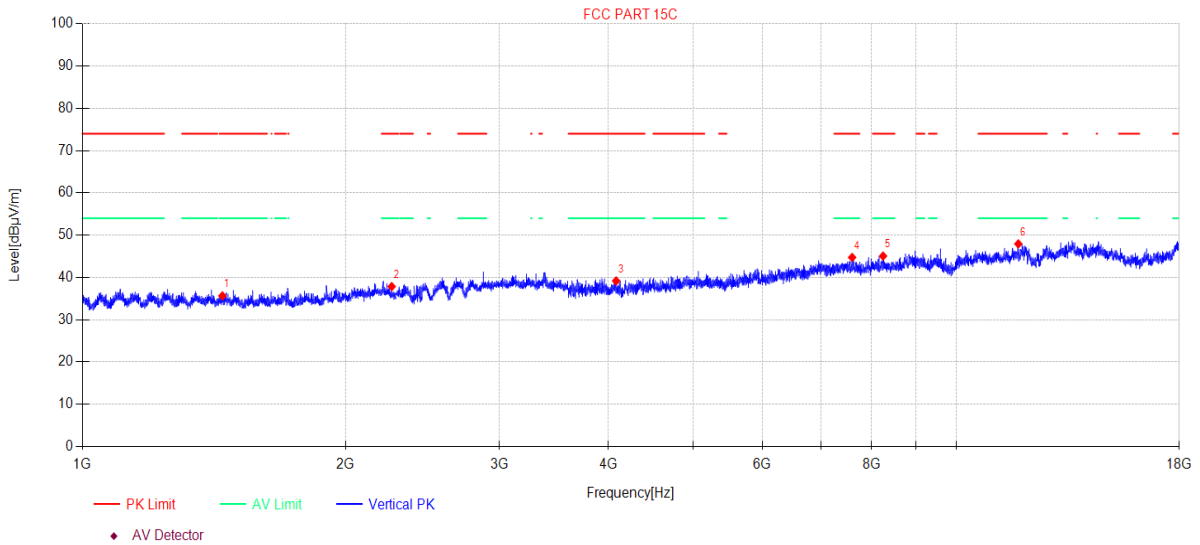
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G4
Memo: DH5 2402 L

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1445.96	46.80	2.11	25.60	-38.87	35.64	74.00	38.36	PK	Vertical
2	2259.18	47.54	3.01	27.30	-39.99	37.86	74.00	36.14	PK	Vertical
3	4080.89	46.50	3.20	30.86	-41.38	39.18	74.00	34.82	PK	Vertical
4	7600.85	45.56	3.78	36.40	-41.00	44.74	74.00	29.26	PK	Vertical
5	8246.27	44.67	3.90	37.10	-40.61	45.06	74.00	28.94	PK	Vertical
6	11776.52	43.65	4.75	38.80	-39.26	47.94	74.00	26.06	PK	Vertical

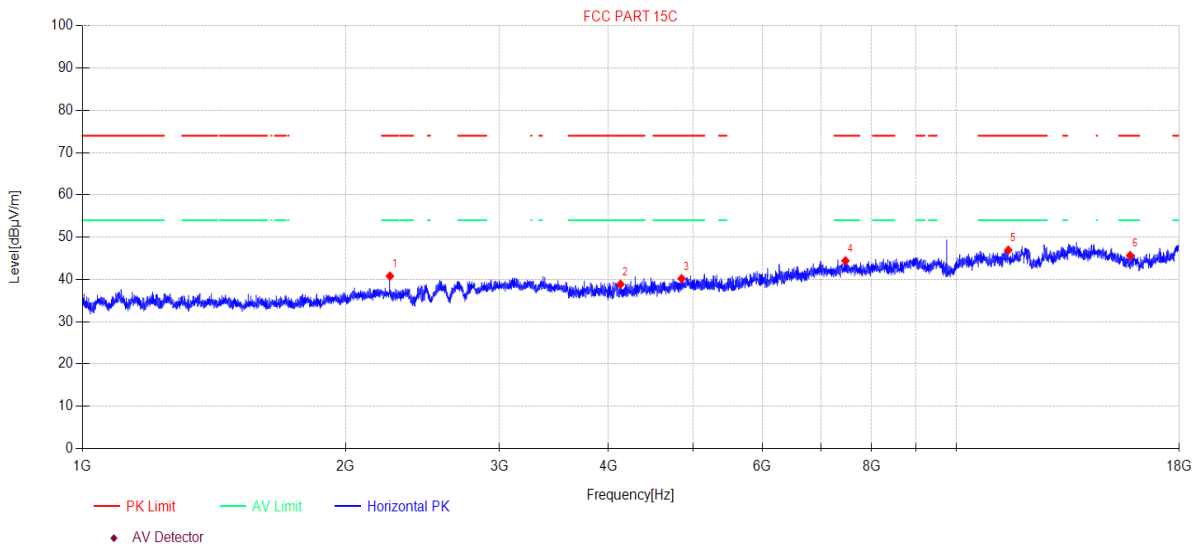
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\5
Memo: DH5 2441 L

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2248.76	50.46	3.00	27.30	-39.97	40.79	74.00	33.21	PK	Horizontal
2	4128.34	46.06	3.20	30.96	-41.36	38.86	74.00	35.14	PK	Horizontal
3	4849.39	45.56	3.28	32.50	-41.15	40.19	74.00	33.81	PK	Horizontal
4	7468.03	45.20	3.75	36.46	-41.00	44.41	74.00	29.59	PK	Horizontal
5	11470.84	42.97	4.69	39.03	-39.75	46.94	74.00	27.06	PK	Horizontal
6	15814.01	41.18	6.56	38.19	-40.27	45.66	74.00	28.34	PK	Horizontal

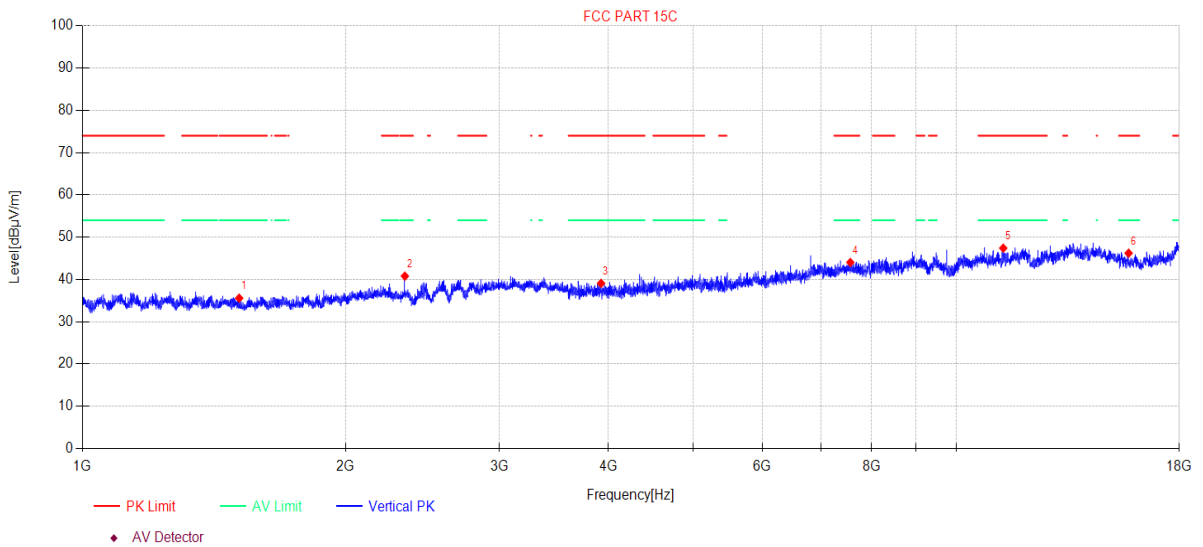
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\6
Memo: DH5 2441 L

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1511.33	46.88	2.19	25.48	-38.97	35.58	74.00	38.42	PK	Vertical
2	2338.91	50.38	3.09	27.38	-40.07	40.78	74.00	33.22	PK	Vertical
3	3922.46	46.66	3.23	30.54	-41.35	39.08	74.00	34.92	PK	Vertical
4	7565.78	44.86	3.77	36.40	-41.00	44.03	74.00	29.97	PK	Vertical
5	11319.35	43.62	4.67	39.10	-39.99	47.40	74.00	26.60	PK	Vertical
6	15750.15	41.68	6.52	38.25	-40.23	46.22	74.00	27.78	PK	Vertical

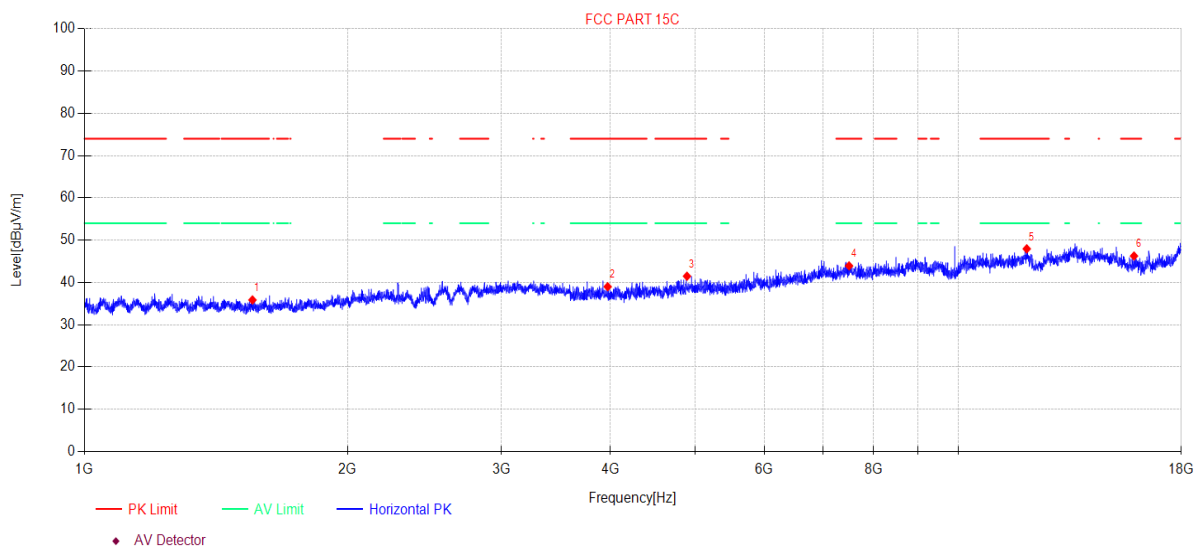
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\7
Memo: DH5 2480 L

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1557.00	47.26	2.24	25.40	-39.04	35.86	74.00	38.14	PK	Horizontal
2	3970.37	46.53	3.20	30.64	-41.38	38.99	74.00	35.01	PK	Horizontal
3	4893.03	46.73	3.29	32.59	-41.13	41.48	74.00	32.52	PK	Horizontal
4	7500.47	44.76	3.76	36.40	-41.00	43.92	74.00	30.08	PK	Horizontal
5	11979.05	43.21	4.79	38.88	-38.93	47.95	74.00	26.05	PK	Horizontal
6	15891.89	41.86	6.61	38.11	-40.32	46.26	74.00	27.74	PK	Horizontal

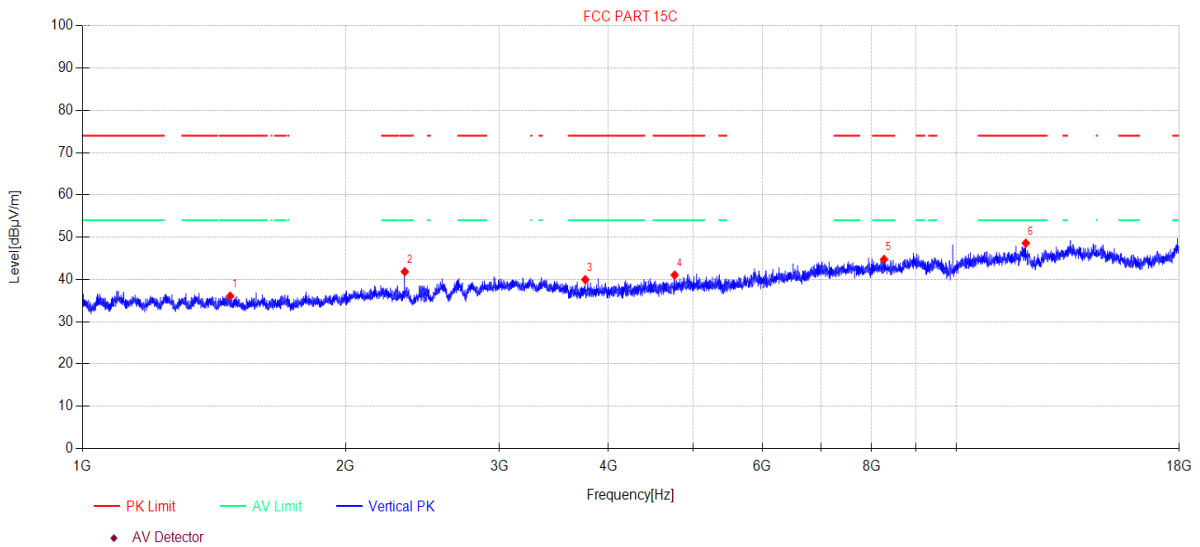
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\8
Memo: DH5 2480 L

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1475.94	47.27	2.15	25.55	-38.91	36.06	74.00	37.94	PK	Vertical
2	2338.23	51.43	3.08	27.38	-40.07	41.82	74.00	32.18	PK	Vertical
3	3762.57	47.76	3.31	30.15	-41.26	39.96	74.00	34.04	PK	Vertical
4	4761.89	46.79	3.27	32.15	-41.17	41.04	74.00	32.96	PK	Vertical
5	8267.74	44.28	3.90	37.14	-40.57	44.75	74.00	29.25	PK	Vertical
6	12013.72	43.77	4.79	38.93	-38.91	48.58	74.00	25.42	PK	Vertical

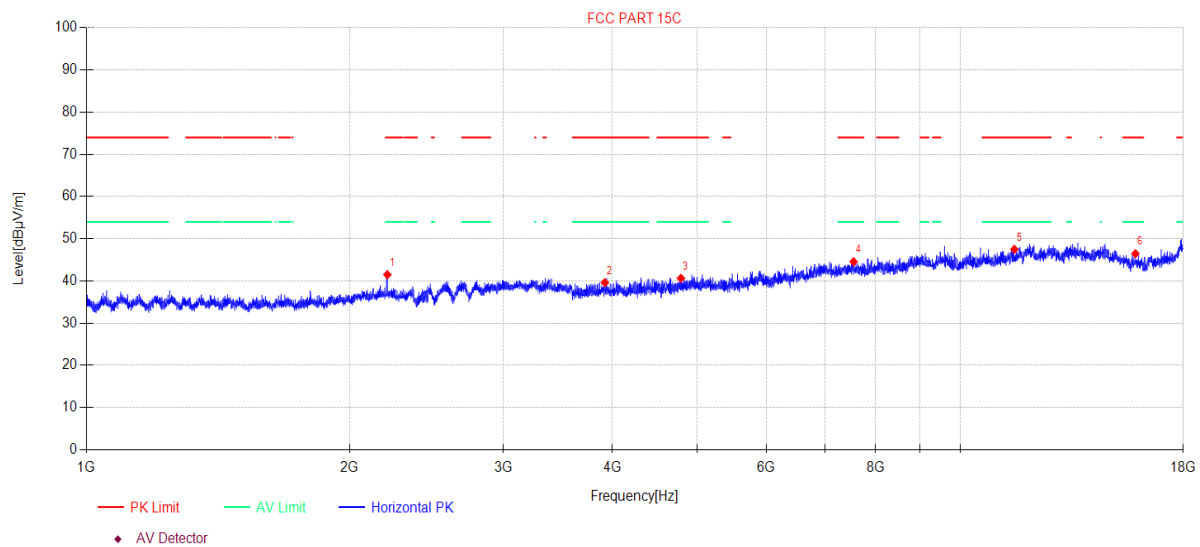
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\43
Memo: DH5 2402 R

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2210.10	51.23	2.97	27.22	-39.93	41.49	74.00	32.51	PK	Horizontal
2	3920.20	47.18	3.23	30.54	-41.35	39.60	74.00	34.40	PK	Horizontal
3	4790.88	46.25	3.28	32.26	-41.16	40.63	74.00	33.37	PK	Horizontal
4	7550.49	45.38	3.77	36.40	-41.00	44.55	74.00	29.45	PK	Horizontal
5	11534.00	43.46	4.71	38.97	-39.65	47.49	74.00	26.51	PK	Horizontal
6	15864.36	42.03	6.60	38.14	-40.31	46.46	74.00	27.54	PK	Horizontal

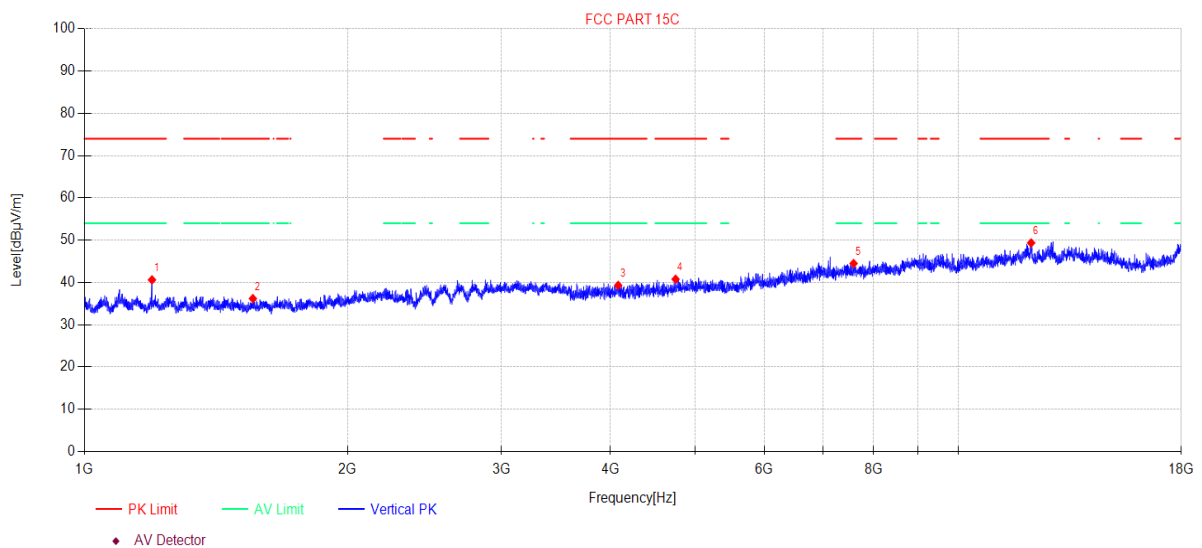
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\44
Memo: DH5 2402 R

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1194.86	51.70	1.81	25.60	-38.49	40.62	74.00	33.38	PK	Vertical
2	1558.80	47.58	2.25	25.40	-39.04	36.19	74.00	37.81	PK	Vertical
3	4082.07	46.63	3.20	30.86	-41.38	39.31	74.00	34.69	PK	Vertical
4	4748.15	46.58	3.27	32.10	-41.18	40.77	74.00	33.23	PK	Vertical
5	7589.87	45.31	3.78	36.40	-41.00	44.49	74.00	29.51	PK	Vertical
6	12118.33	44.45	4.82	39.10	-39.02	49.35	74.00	24.65	PK	Vertical

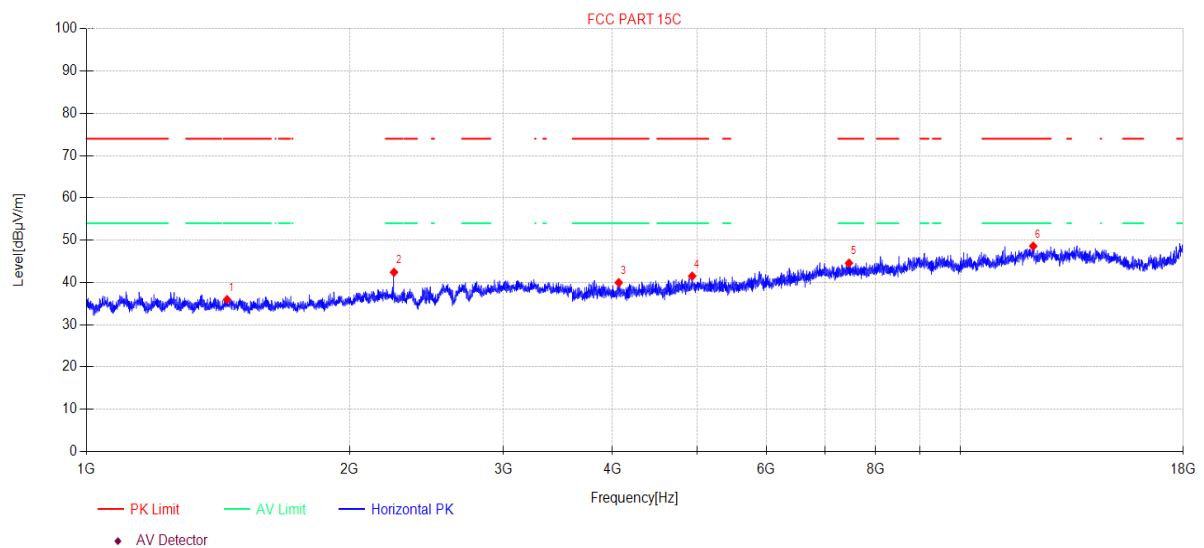
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\45
Memo: DH5 2441 R

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1448.47	47.12	2.11	25.60	-38.87	35.96	74.00	38.04	PK	Horizontal
2	2248.76	52.08	3.00	27.30	-39.97	42.41	74.00	31.59	PK	Horizontal
3	4066.76	47.31	3.20	30.83	-41.38	39.96	74.00	34.04	PK	Horizontal
4	4934.21	46.59	3.29	32.74	-41.12	41.50	74.00	32.50	PK	Horizontal
5	7459.40	45.35	3.75	36.48	-41.00	44.58	74.00	29.42	PK	Horizontal
6	12121.84	43.67	4.83	39.10	-39.02	48.58	74.00	25.42	PK	Horizontal

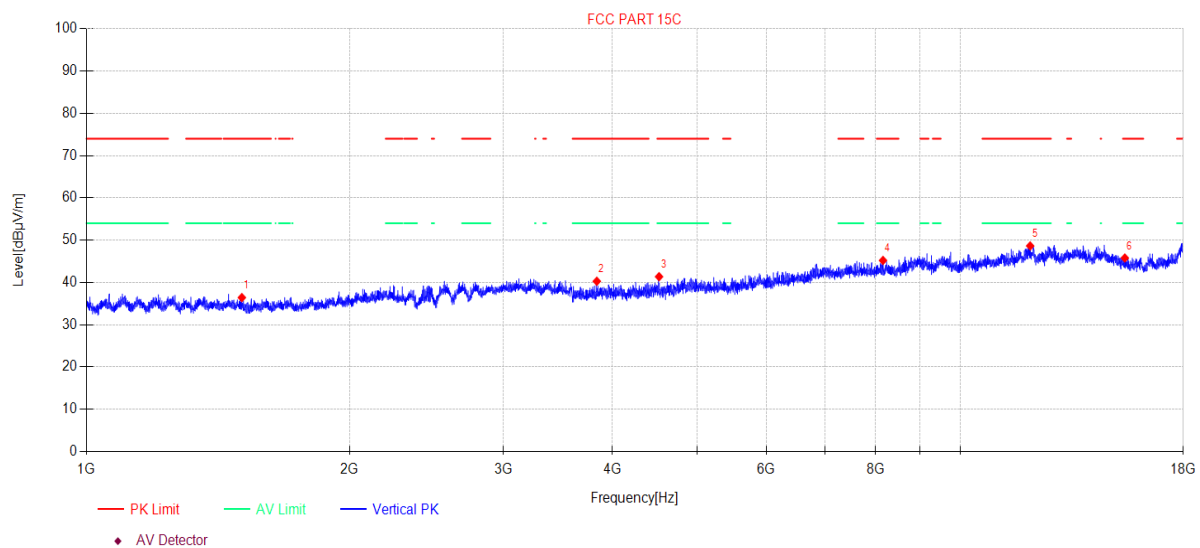
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\46
Memo: DH5 2441 R

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1506.10	47.71	2.18	25.49	-38.96	36.42	74.00	37.58	PK	Vertical
2	3838.36	47.93	3.27	30.38	-41.30	40.28	74.00	33.72	PK	Vertical
3	4521.81	47.72	3.25	31.64	-41.24	41.37	74.00	32.63	PK	Vertical
4	8158.56	45.05	3.89	37.02	-40.75	45.21	74.00	28.79	PK	Vertical
5	12024.14	43.81	4.80	38.95	-38.92	48.64	74.00	25.36	PK	Vertical
6	15430.26	40.83	6.29	38.67	-40.00	45.79	74.00	28.21	PK	Vertical

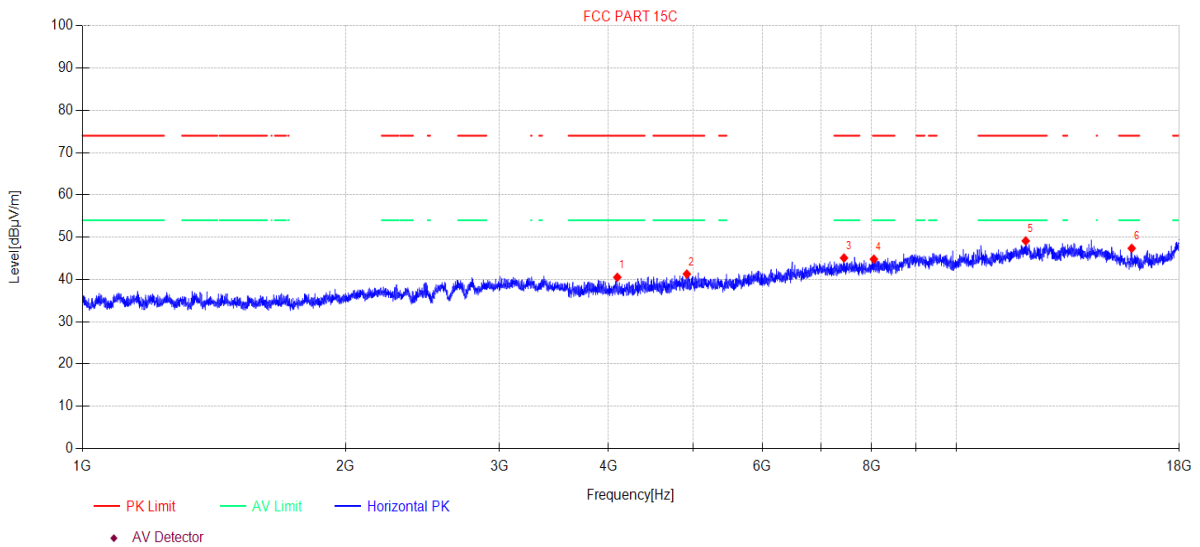
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\47
Memo: DH5 2480 R

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	4093.88	47.79	3.20	30.89	-41.37	40.51	74.00	33.49	PK	Horizontal
2	4917.13	46.45	3.29	32.67	-41.12	41.29	74.00	32.71	PK	Horizontal
3	7440.02	45.84	3.74	36.50	-41.00	45.08	74.00	28.92	PK	Horizontal
4	8048.48	44.84	3.88	37.00	-40.92	44.80	74.00	29.20	PK	Horizontal
5	12010.25	44.31	4.79	38.92	-38.91	49.11	74.00	24.89	PK	Horizontal
6	15878.12	42.95	6.60	38.12	-40.31	47.36	74.00	26.64	PK	Horizontal

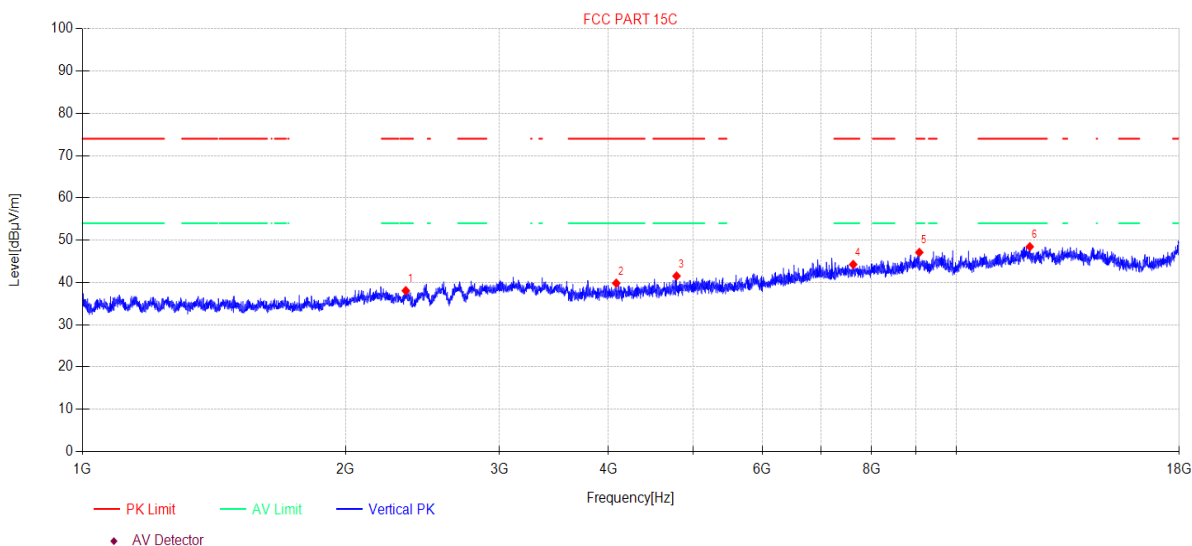
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-23 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\48
Memo: DH5 2480 R

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2344.32	47.65	3.09	27.39	-40.08	38.05	74.00	35.95	PK	Vertical
2	4082.07	47.15	3.20	30.86	-41.38	39.83	74.00	34.17	PK	Vertical
3	4785.34	47.16	3.28	32.24	-41.16	41.52	74.00	32.48	PK	Vertical
4	7622.85	45.02	3.78	36.45	-41.00	44.25	74.00	29.75	PK	Vertical
5	9074.08	44.40	4.00	38.20	-39.49	47.11	74.00	26.89	PK	Vertical
6	12139.37	43.55	4.83	39.10	-39.04	48.44	74.00	25.56	PK	Vertical

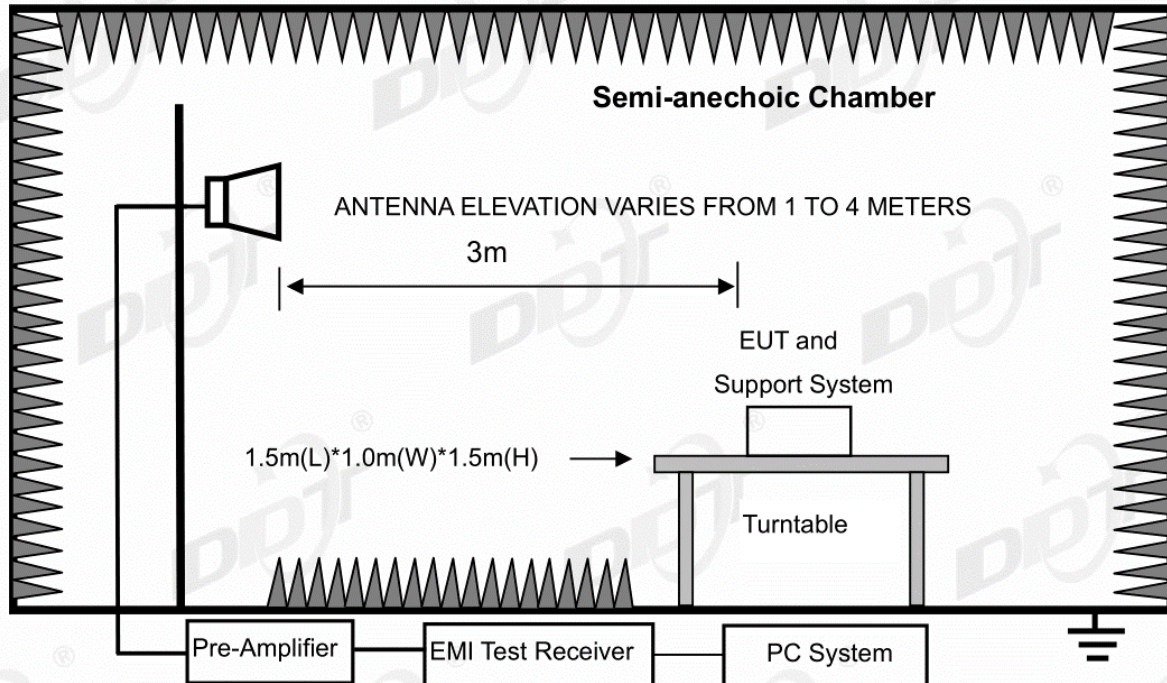
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Band Edge Compliance (Radiated Method)

12.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



12.2. Limit

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

12.3. Test Procedure

Same with Radiated Emission except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

12.4. Test result

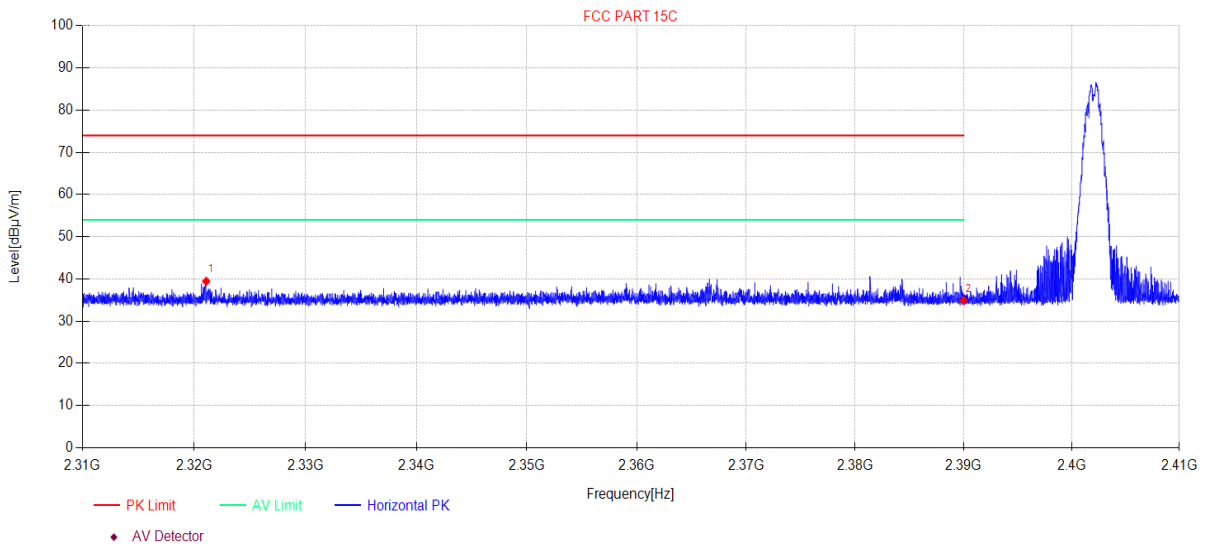
Pass. (See below detailed test result)

Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only. Scan with all mode, the worst case is recorded in this report.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\21
Memo: DH5 2402 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2321.07	49.18	2.98	27.34	-40.05	39.45	74.00	34.55	PK	Horizontal
2	2390.00	44.48	3.06	27.48	-40.13	34.89	74.00	39.11	PK	Horizontal

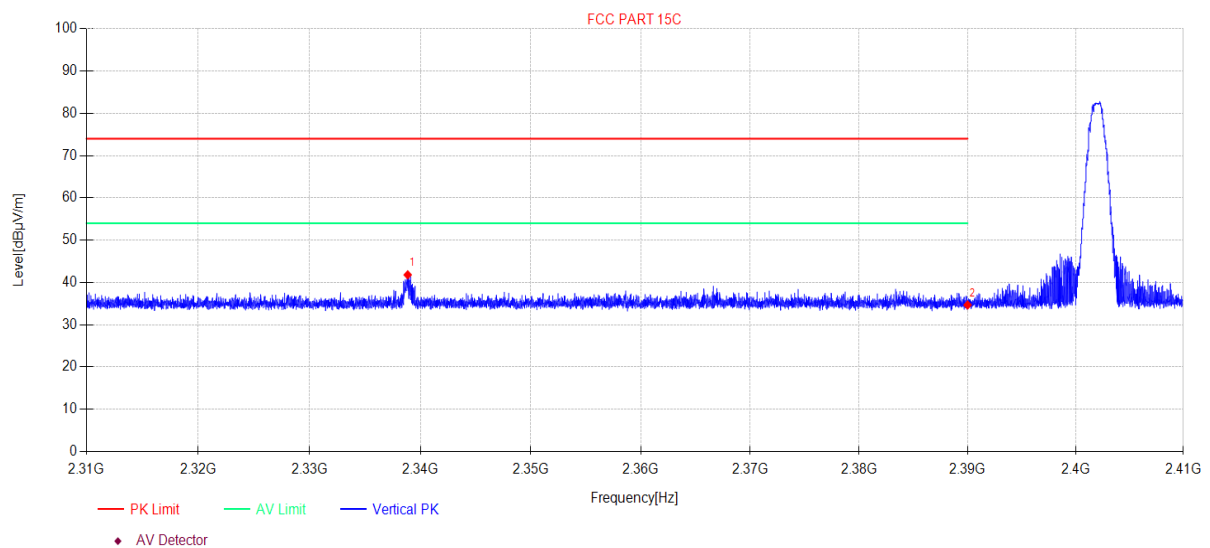
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\22
Memo: DH5 2402 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2338.85	51.49	3.00	27.38	-40.07	41.80	74.00	32.20	PK	Vertical
2	2390.00	44.26	3.06	27.48	-40.13	34.67	74.00	39.33	PK	Vertical

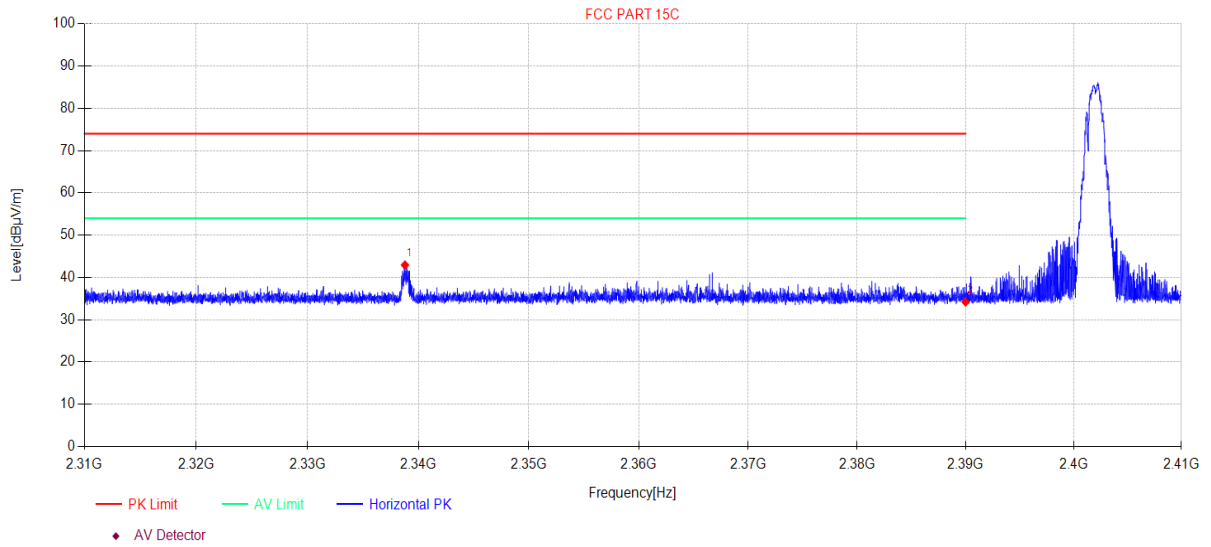
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\23
Memo: 2DH5 2402 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2338.79	52.63	3.00	27.38	-40.07	42.94	74.00	31.06	PK	Horizontal
2	2390.00	43.79	3.06	27.48	-40.13	34.20	74.00	39.80	PK	Horizontal

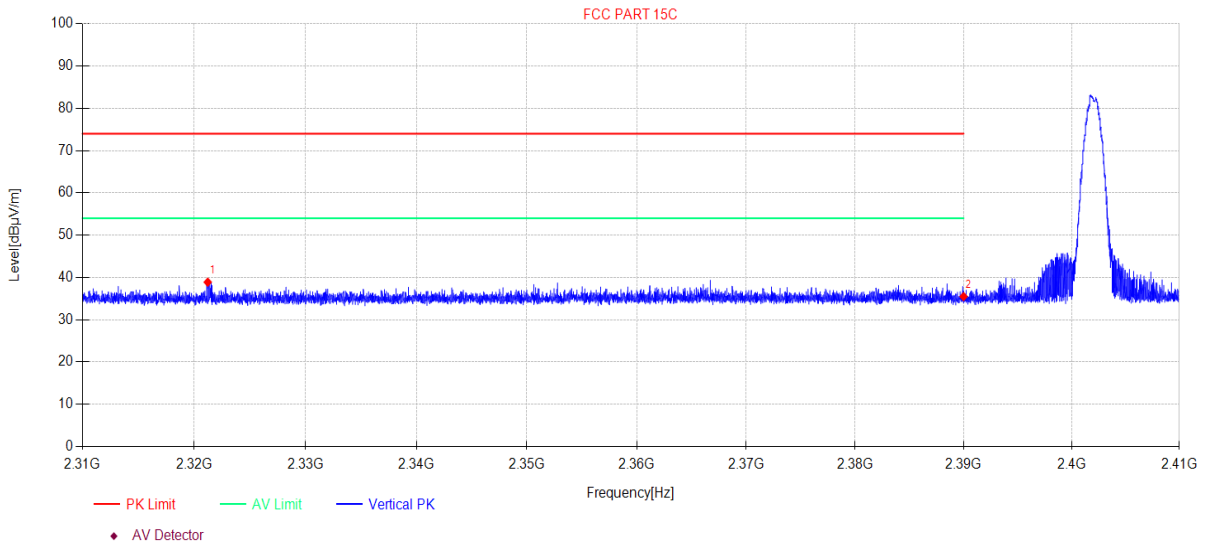
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\24
Memo: 2DH5 2402 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2321.21	48.61	2.98	27.34	-40.05	38.88	74.00	35.12	PK	Vertical
2	2390.00	45.08	3.06	27.48	-40.13	35.49	74.00	38.51	PK	Vertical

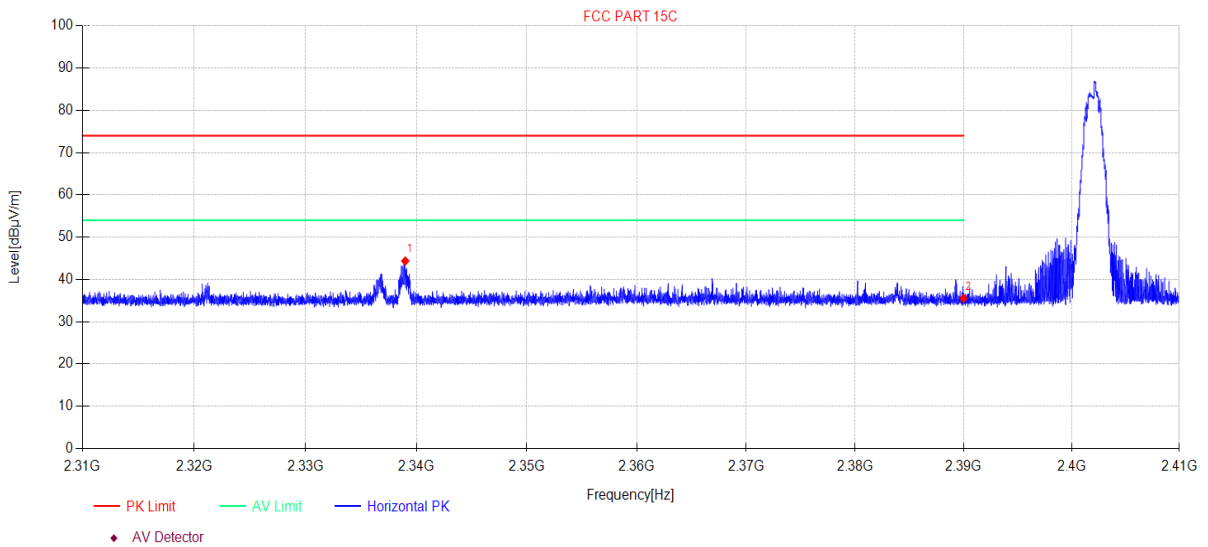
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\25
Memo: 3DH5 2402 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2338.99	54.05	3.00	27.38	-40.07	44.36	74.00	29.64	PK	Horizontal
2	2390.00	45.12	3.06	27.48	-40.13	35.53	74.00	38.47	PK	Horizontal

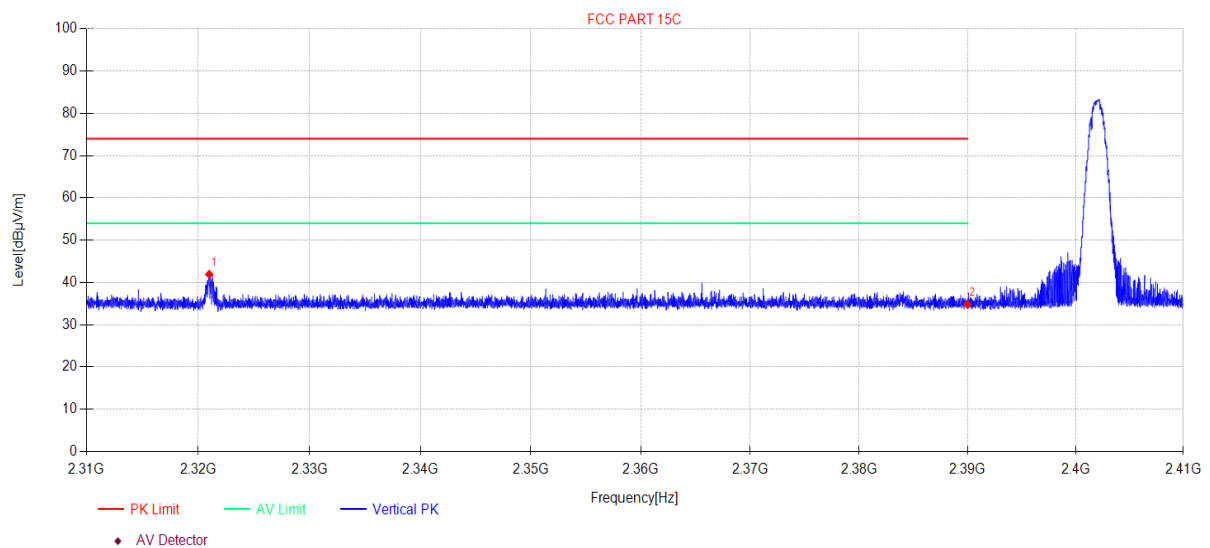
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\26
Memo: 3DH5 2402 L

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2320.99	51.64	2.98	27.34	-40.05	41.91	74.00	32.09	PK	Vertical
2	2390.00	44.38	3.06	27.48	-40.13	34.79	74.00	39.21	PK	Vertical

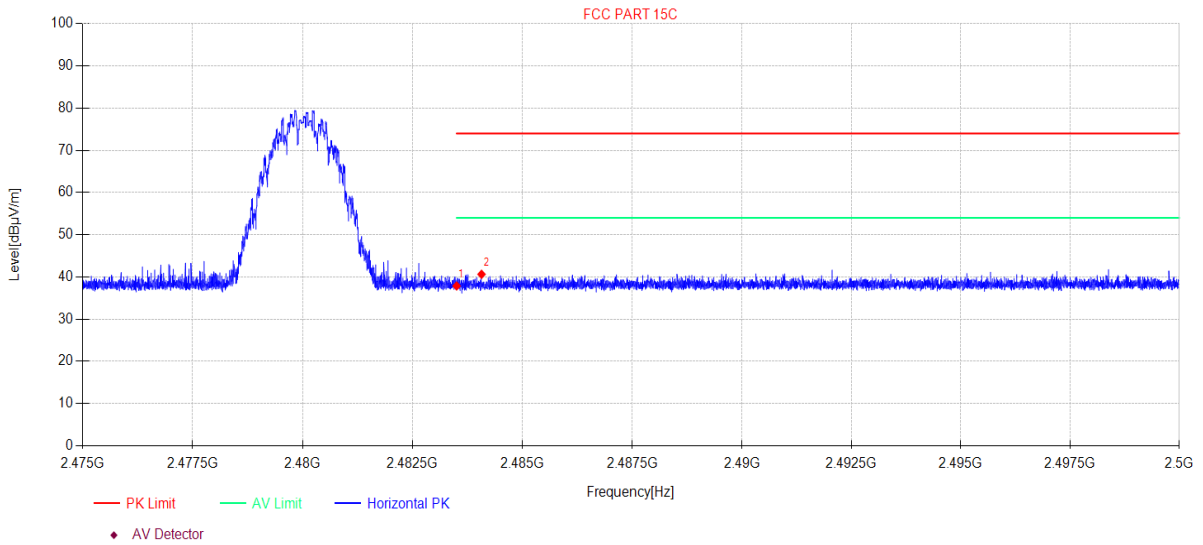
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\31
Memo: DH5 2480 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	47.21	3.15	27.73	-40.23	37.86	74.00	36.14	PK	Horizontal
2	2484.07	49.97	3.15	27.74	-40.23	40.63	74.00	33.37	PK	Horizontal

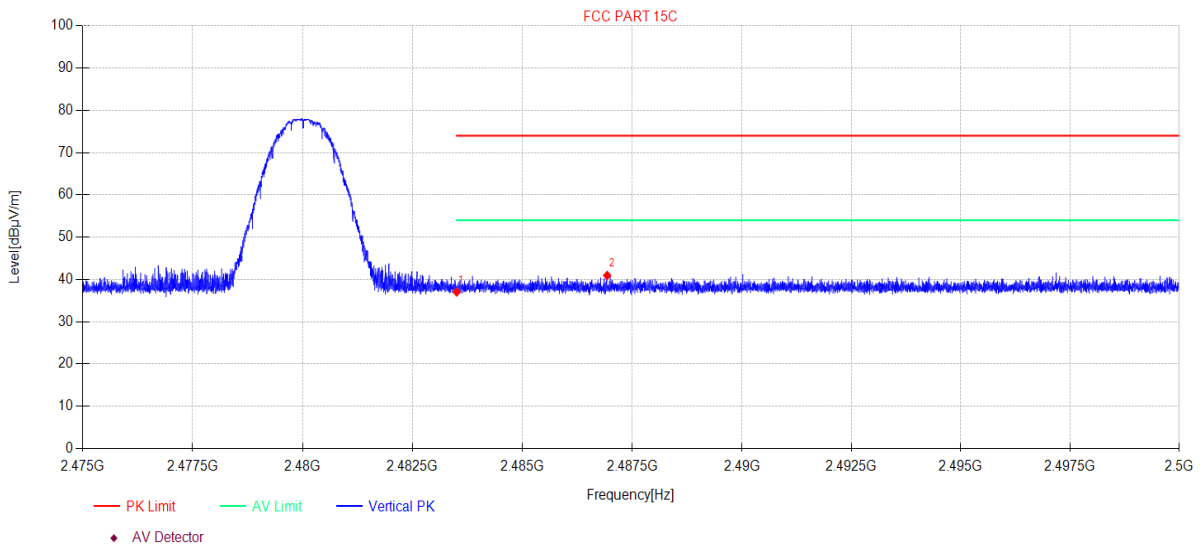
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-22 **Tested By:** Bairong
EUT: TWS Earbuds **Model Number:** JBuds Air Pro ANC
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:22.4°C;Humi:54.1% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22120512-2E JBuds Air Pro ANC\FCC ABOVE 1G\32
Memo: DH5 2480 L

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	46.39	3.15	27.73	-40.23	37.04	74.00	36.96	PK	Vertical
2	2486.93	50.29	3.16	27.75	-40.24	40.96	74.00	33.04	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.