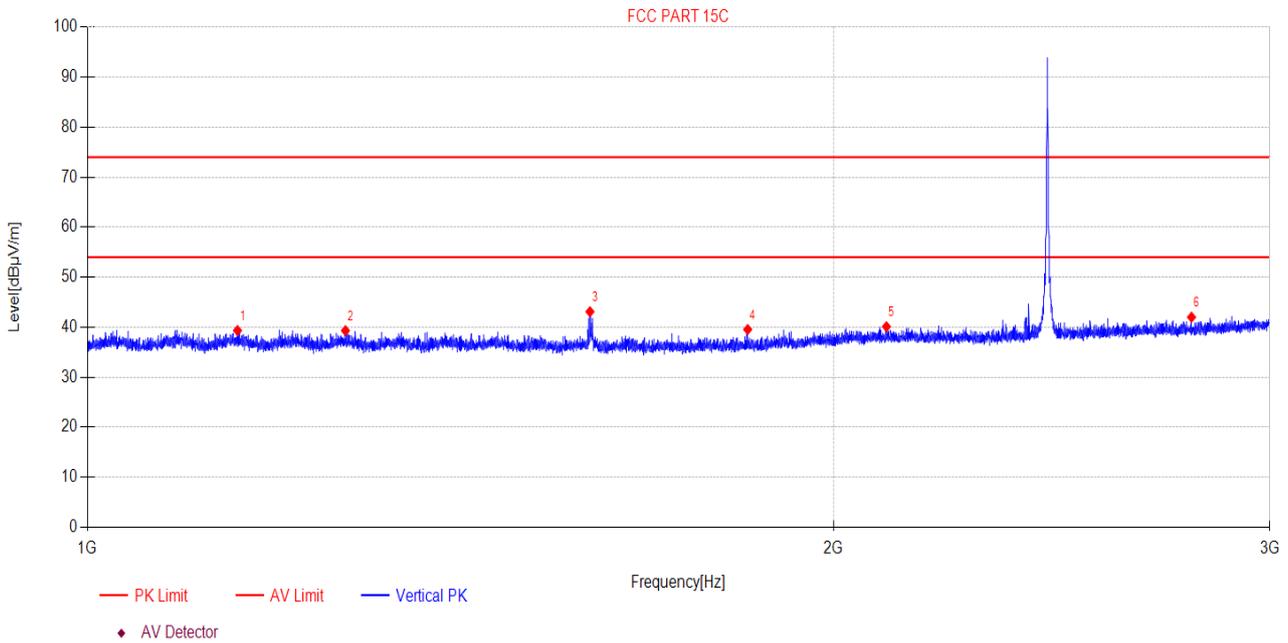


# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\6  
**Memo:** DH5 2441



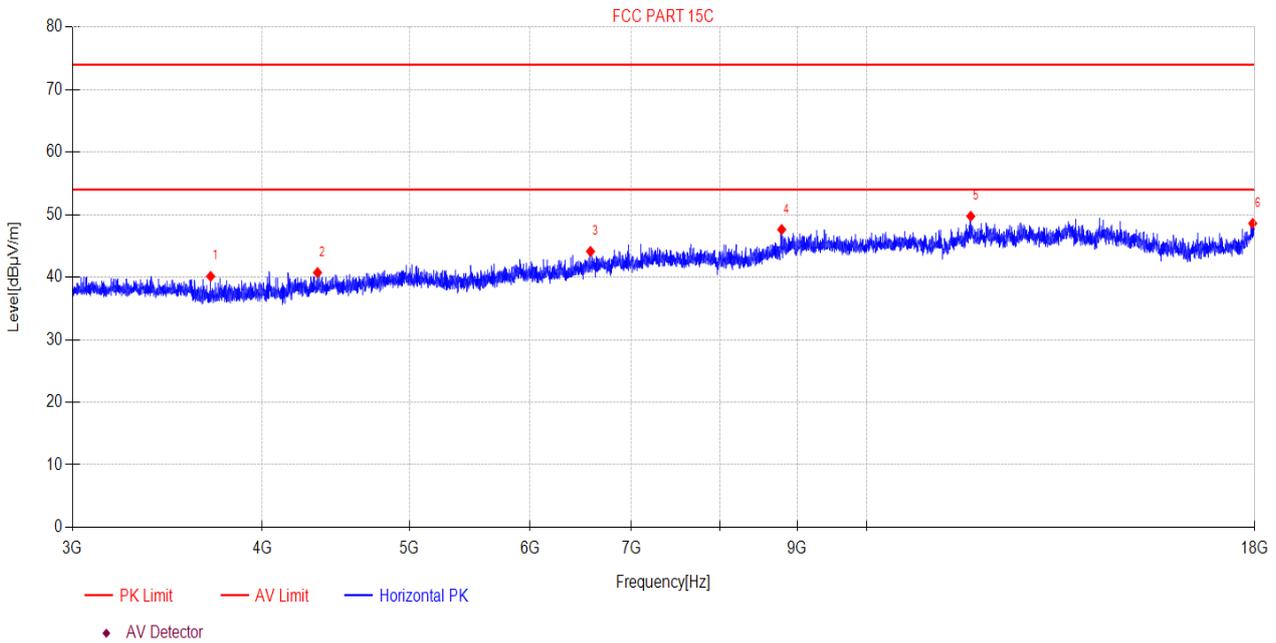
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1149.58	50.23	-10.89	39.34	74.00	34.66	PK	Vertical
2	1270.86	50.26	-10.94	39.32	74.00	34.68	PK	Vertical
3	1595.16	54.59	-11.49	43.10	74.00	30.90	PK	Vertical
4	1846.91	51.08	-11.53	39.55	74.00	34.45	PK	Vertical
5	2101.14	50.25	-10.14	40.11	74.00	33.89	PK	Vertical
6	2789.58	50.66	-8.66	42.00	74.00	32.00	PK	Vertical

**Note:**

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\7  
**Memo:** DH5 2441

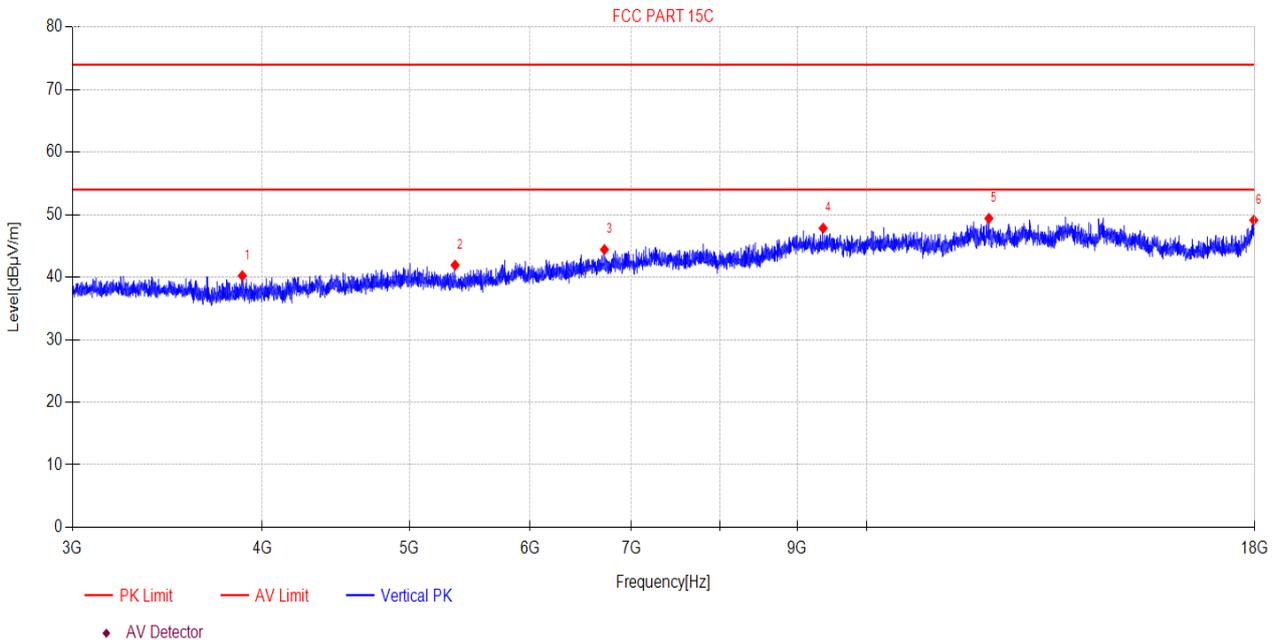


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3698.95	48.15	-8.01	40.14	74.00	33.86	PK	Horizontal
2	4349.27	47.33	-6.60	40.73	74.00	33.27	PK	Horizontal
3	6577.68	45.98	-1.86	44.12	74.00	29.88	PK	Horizontal
4	8787.95	45.28	2.34	47.62	74.00	26.38	PK	Horizontal
5	11705.21	45.46	4.29	49.75	74.00	24.25	PK	Horizontal
6	17945.26	40.24	8.36	48.60	74.00	25.40	PK	Horizontal

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\8  
**Memo:** DH5 2441



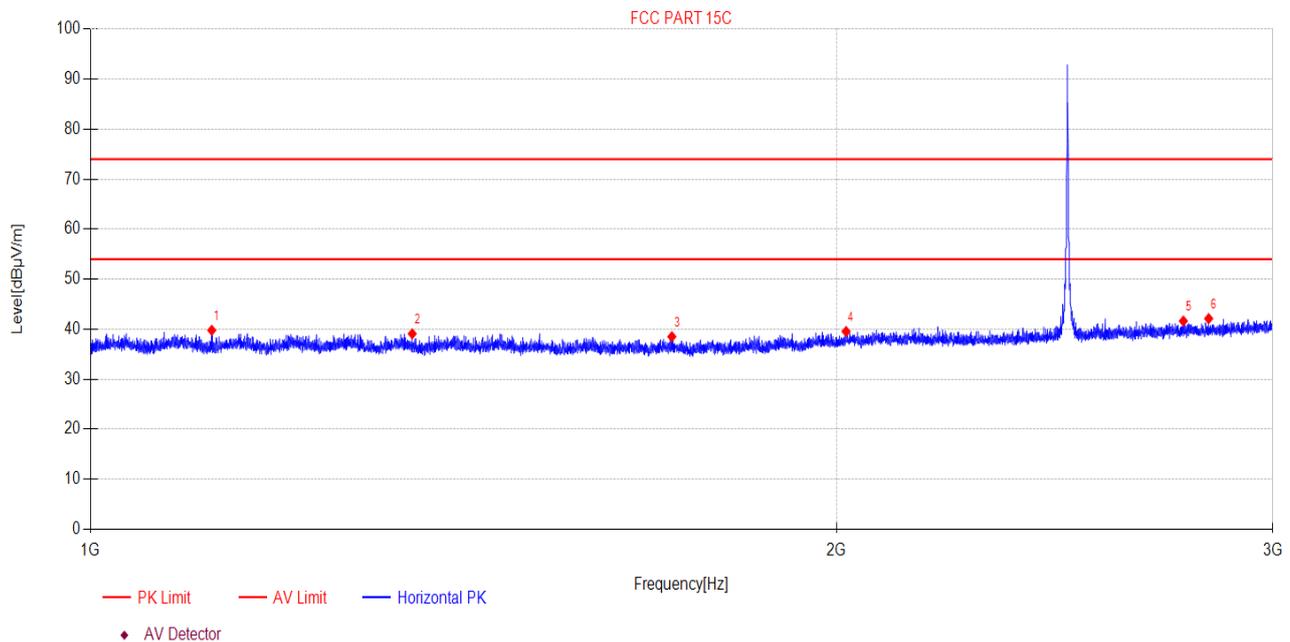
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3880.88	47.87	-7.64	40.23	74.00	33.77	PK	Vertical
2	5357.76	46.50	-4.58	41.92	74.00	32.08	PK	Vertical
3	6718.22	45.91	-1.49	44.42	74.00	29.58	PK	Vertical
4	9358.32	45.05	2.78	47.83	74.00	26.17	PK	Vertical
5	12030.50	44.38	5.02	49.40	74.00	24.60	PK	Vertical
6	17974.22	40.56	8.55	49.11	74.00	24.89	PK	Vertical

**Note:**

1. Level = Reading + Factor.
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:** 2022-11-04 **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\11  
**Memo:** DH5 2480



**Suspected Data List**

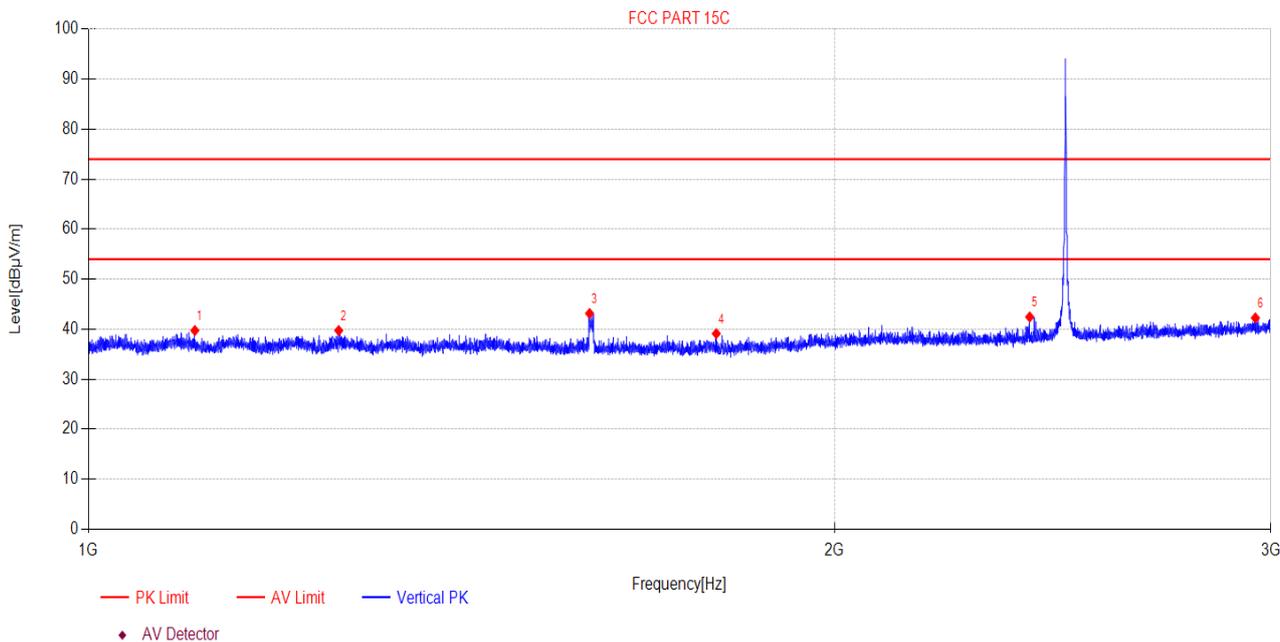
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1119.30	50.72	-10.93	39.79	74.00	34.21	PK	Horizontal
2	1348.53	50.16	-11.07	39.09	74.00	34.91	PK	Horizontal
3	1716.42	50.11	-11.60	38.51	74.00	35.49	PK	Horizontal
4	2018.11	50.08	-10.54	39.54	74.00	34.46	PK	Horizontal
5	2760.92	50.37	-8.73	41.64	74.00	32.36	PK	Horizontal
6	2826.60	50.66	-8.53	42.13	74.00	31.87	PK	Horizontal

**Note:**

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\12  
**Memo:** DH5 2480



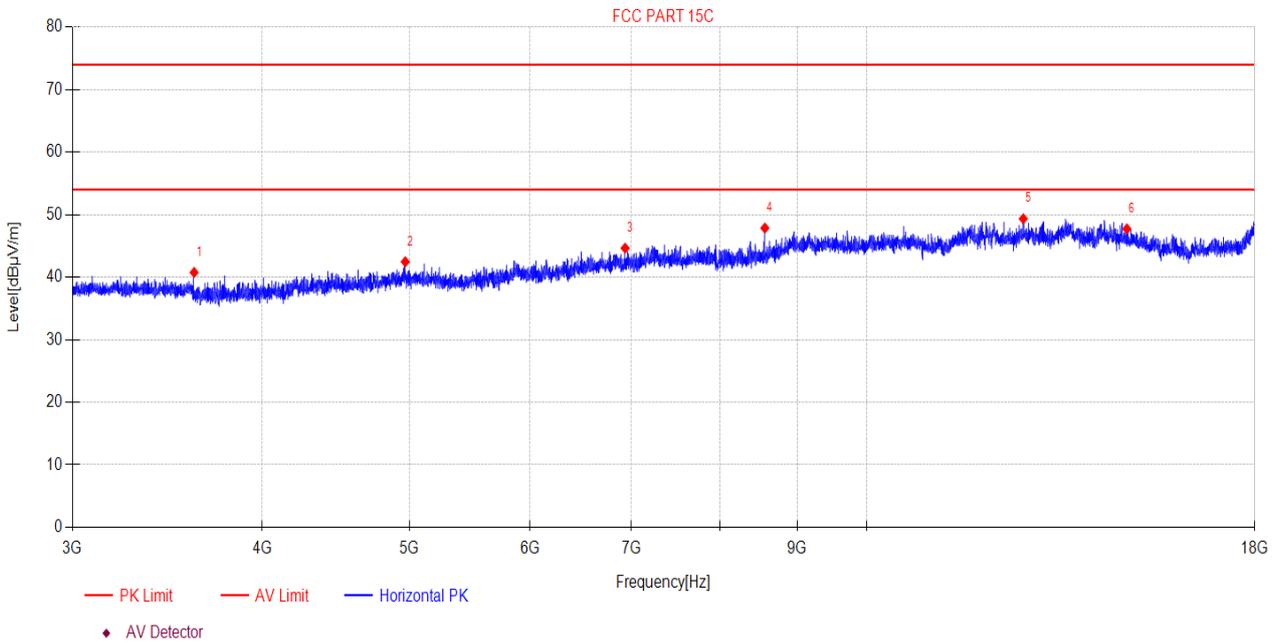
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1103.92	50.69	-10.94	39.75	74.00	34.25	PK	Vertical
2	1261.82	50.65	-10.91	39.74	74.00	34.26	PK	Vertical
3	1593.06	54.64	-11.48	43.16	74.00	30.84	PK	Vertical
4	1792.15	50.71	-11.59	39.12	74.00	34.88	PK	Vertical
5	2397.98	52.14	-9.70	42.44	74.00	31.56	PK	Vertical
6	2957.46	50.24	-7.98	42.26	74.00	31.74	PK	Vertical

**Note:**

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\9  
**Memo:** DH5 2480



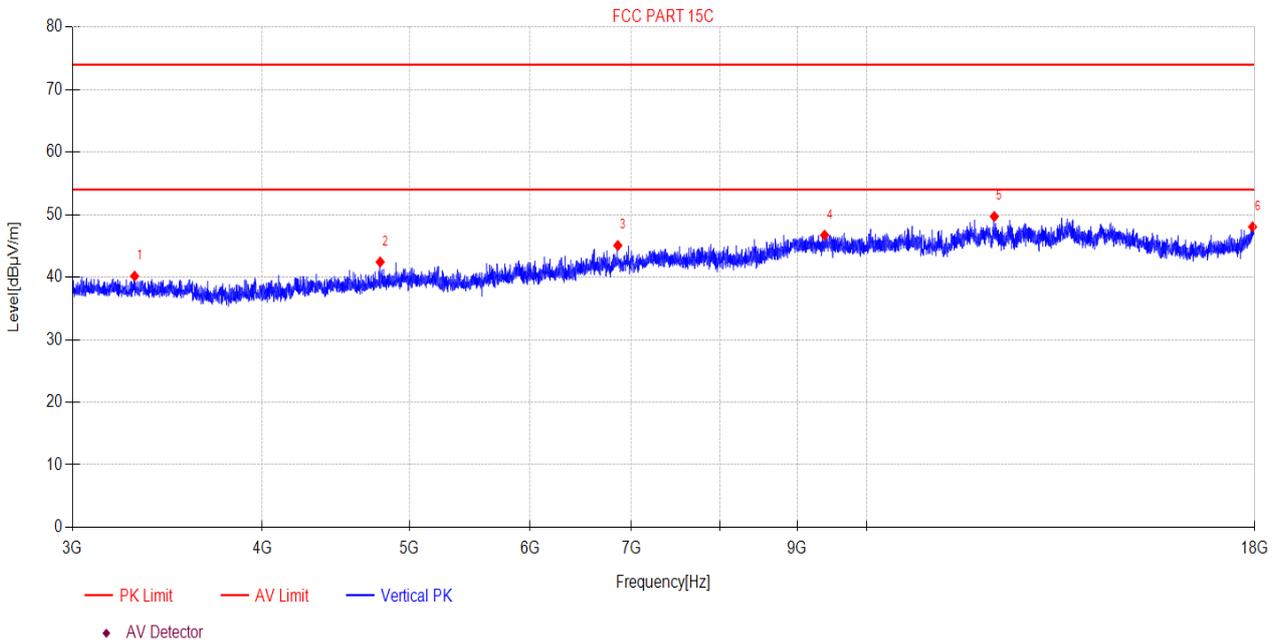
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3607.32	49.01	-8.25	40.76	74.00	33.24	PK	Horizontal
2	4967.63	47.38	-4.91	42.47	74.00	31.53	PK	Horizontal
3	6932.19	45.90	-1.26	44.64	74.00	29.36	PK	Horizontal
4	8567.20	46.29	1.57	47.86	74.00	26.14	PK	Horizontal
5	12674.35	44.40	4.95	49.35	74.00	24.65	PK	Horizontal
6	14828.08	41.83	5.90	47.73	74.00	26.27	PK	Horizontal

**Note:**

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\10  
**Memo:** DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3296.46	48.38	-8.21	40.17	74.00	33.83	PK	Vertical
2	4782.49	47.99	-5.56	42.43	74.00	31.57	PK	Vertical
3	6855.62	46.39	-1.31	45.08	74.00	28.92	PK	Vertical
4	9378.46	43.97	2.76	46.73	74.00	27.27	PK	Vertical
5	12130.06	44.62	5.09	49.71	74.00	24.29	PK	Vertical
6	17942.05	39.71	8.34	48.05	74.00	25.95	PK	Vertical

**Note:**

1. Level = Reading + Factor.
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.

## 11. RF Conducted Spurious Emissions

### 11.1. Block diagram of test setup

Same as section 4.1

### 11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 11.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band



**11.4. Test result**

Left side:

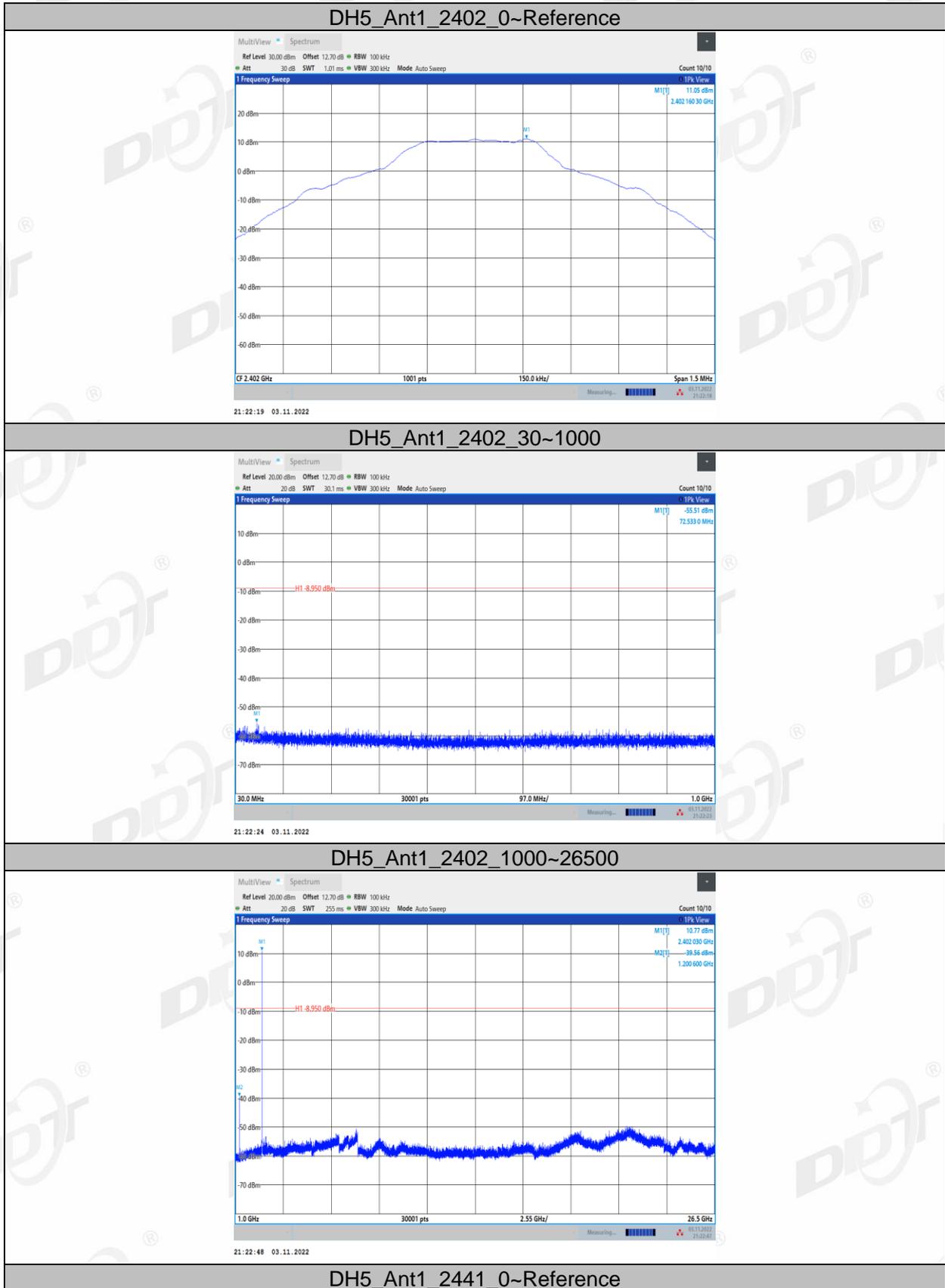
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

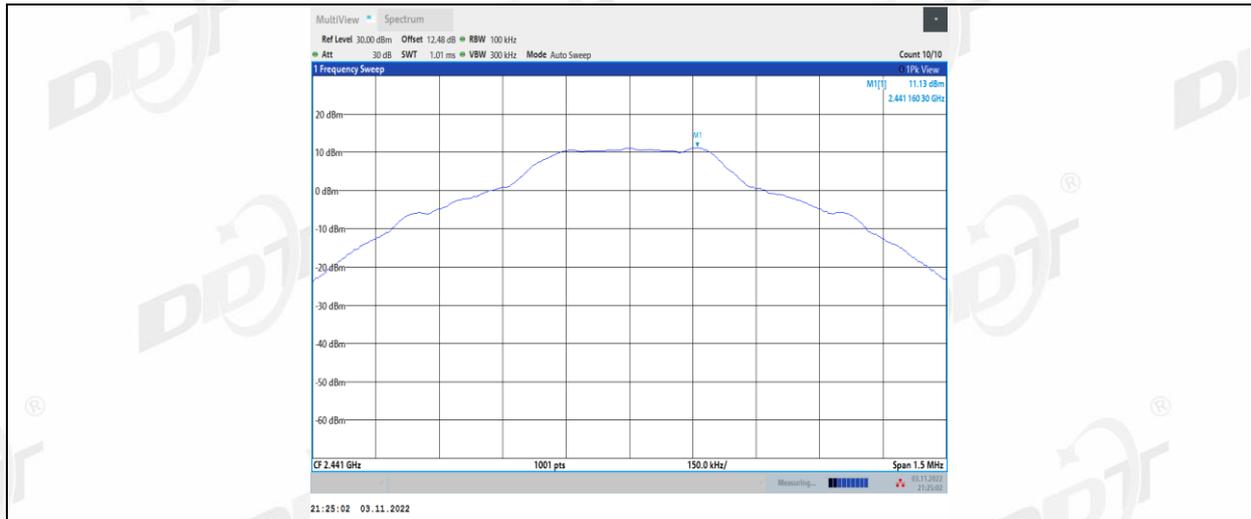
Right side:

Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

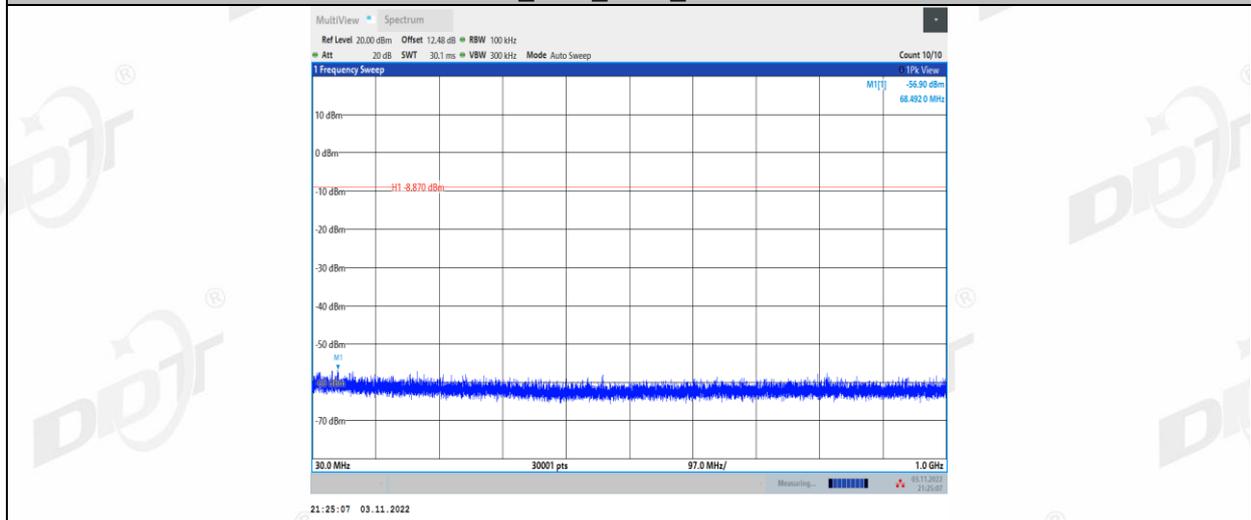
### 11.5. Original test data

Left side:

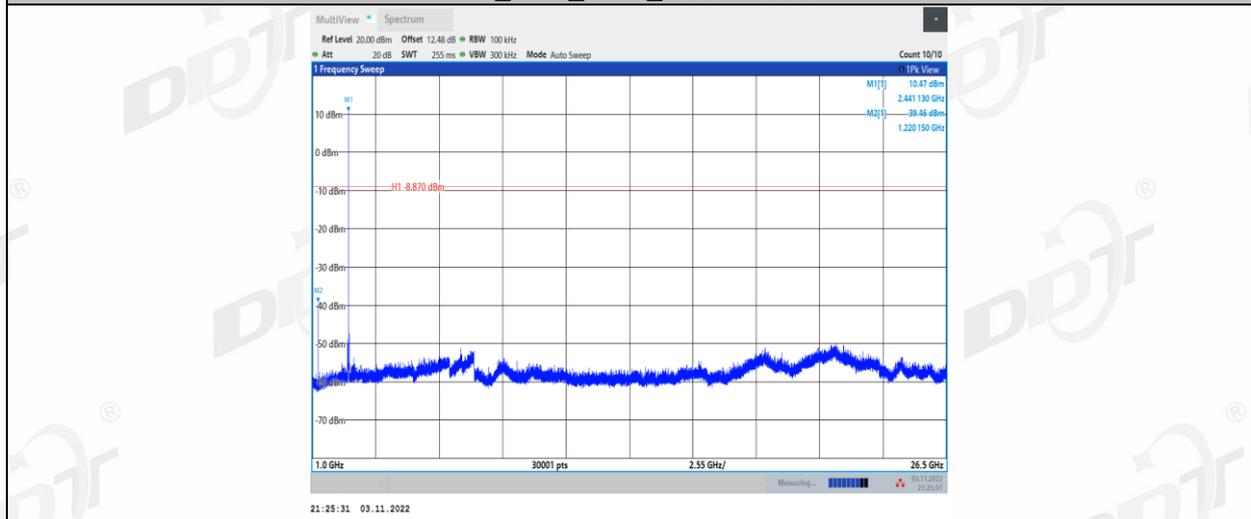




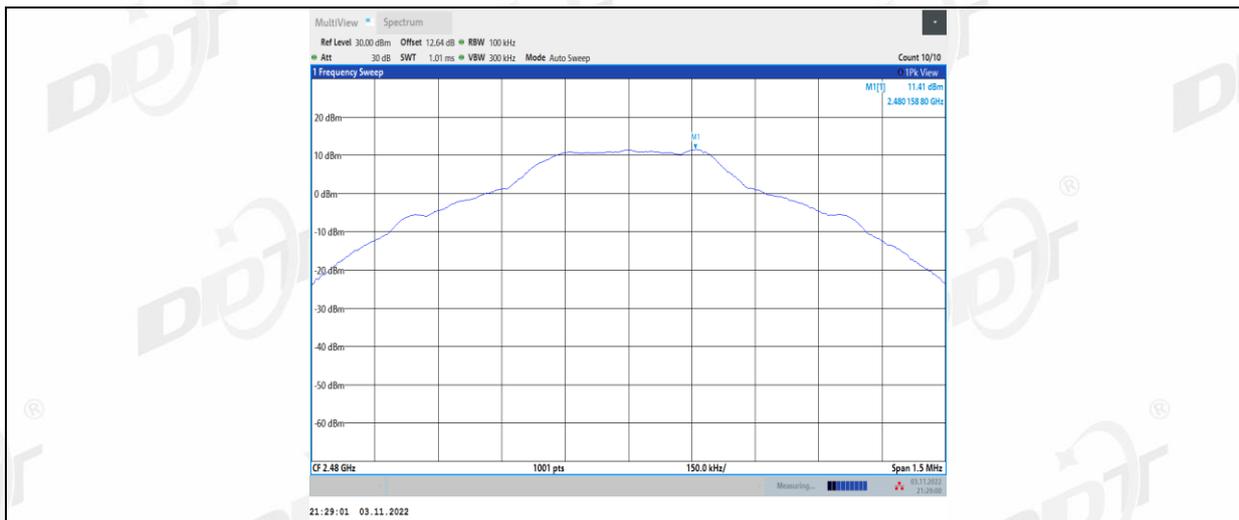
DH5\_Ant1\_2441\_30~1000



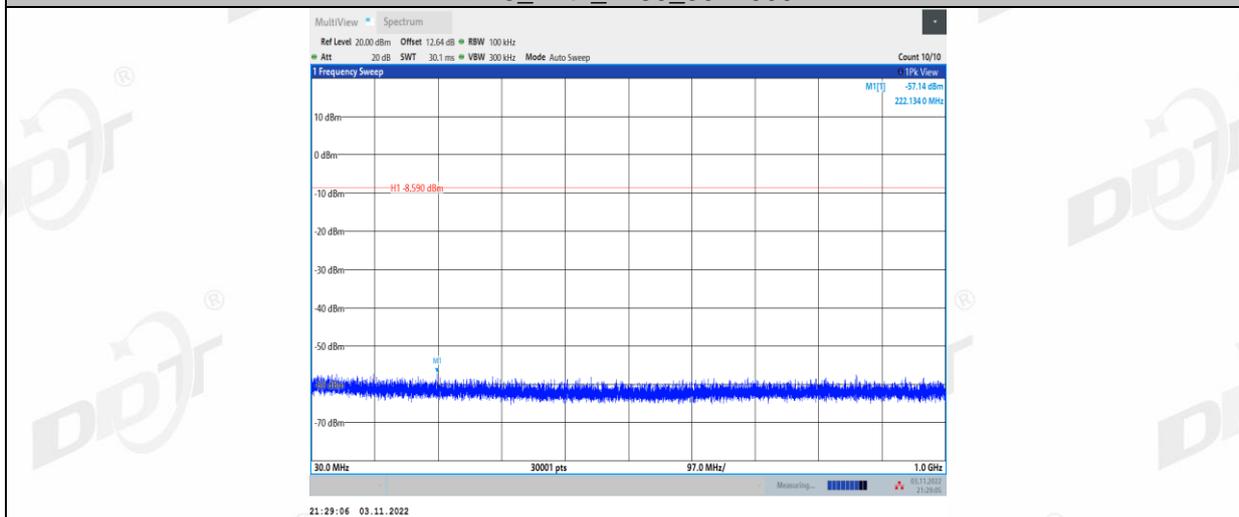
DH5\_Ant1\_2441\_1000~26500



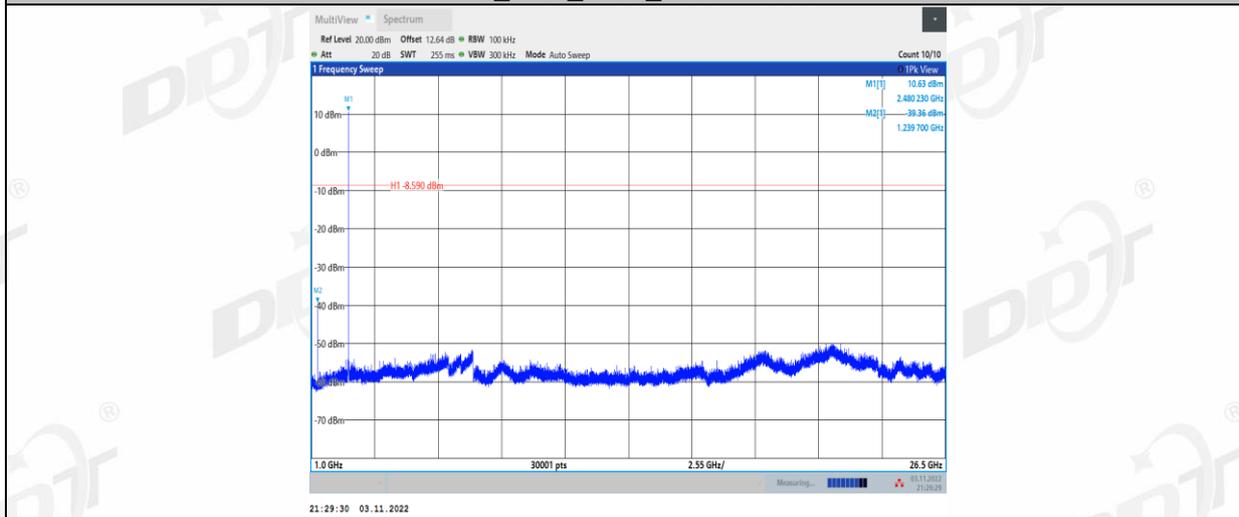
DH5\_Ant1\_2480\_0~Reference



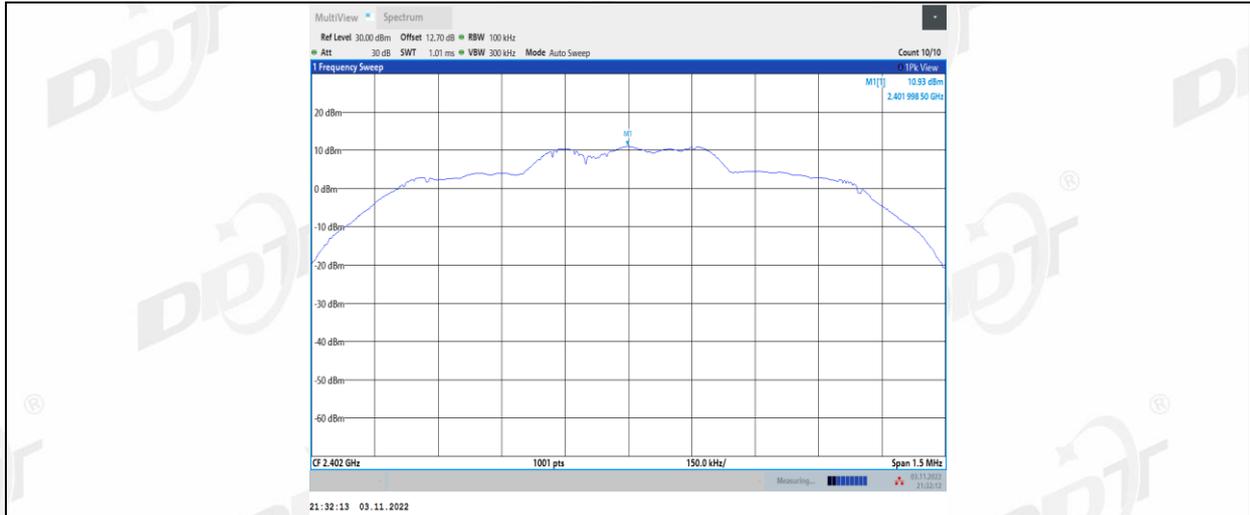
DH5\_Ant1\_2480\_30~1000



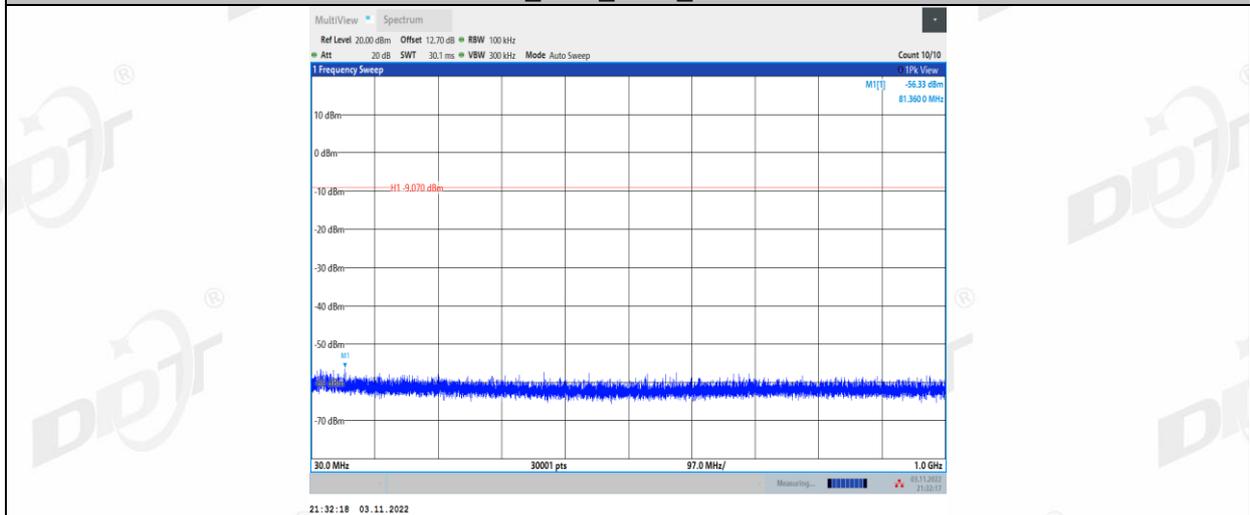
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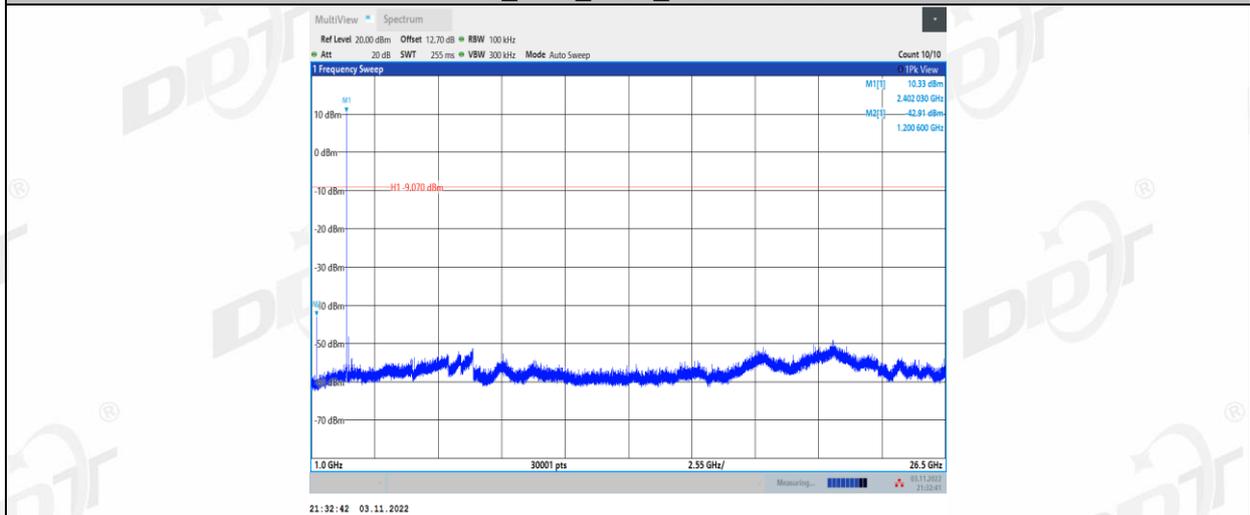
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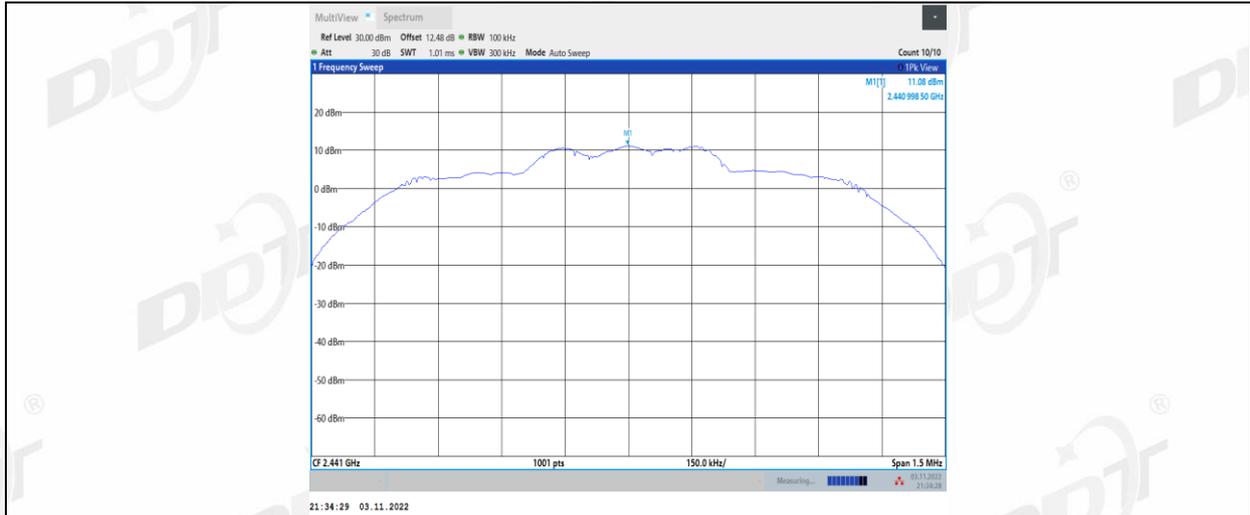
2DH5\_Ant1\_2402\_30~1000



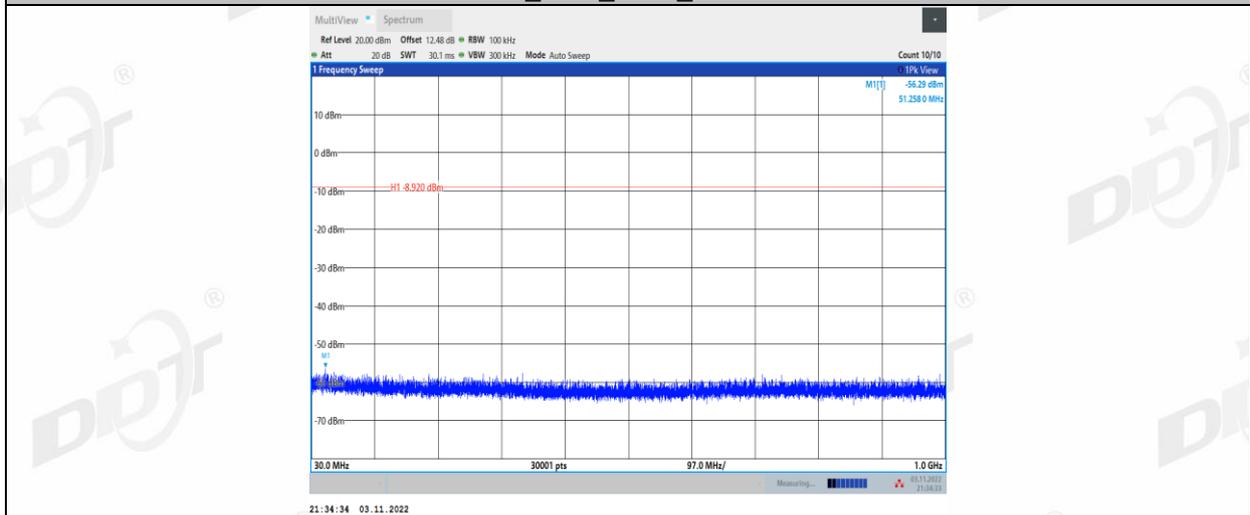
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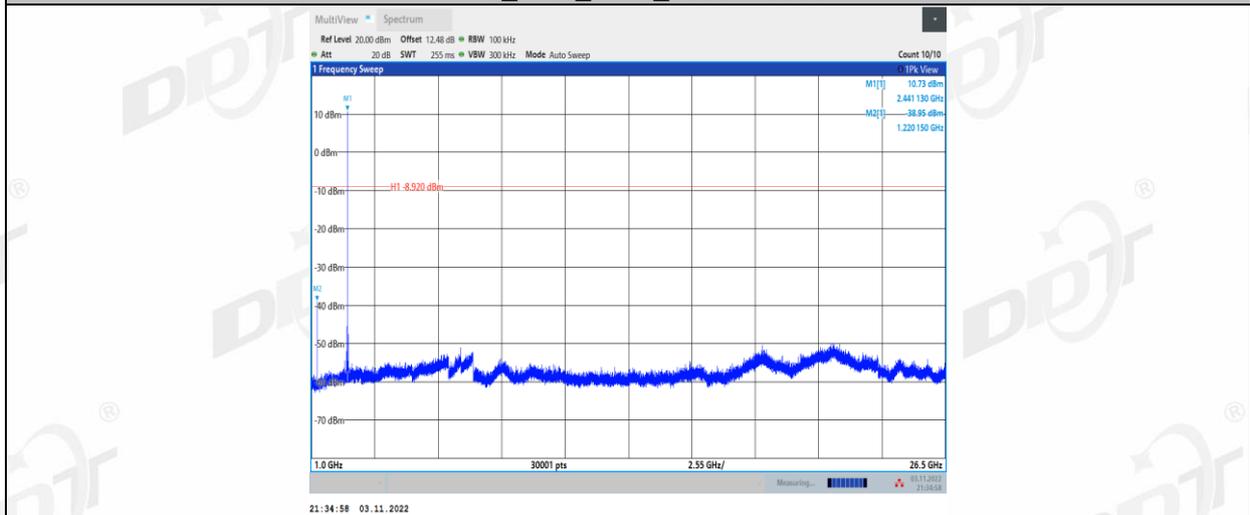
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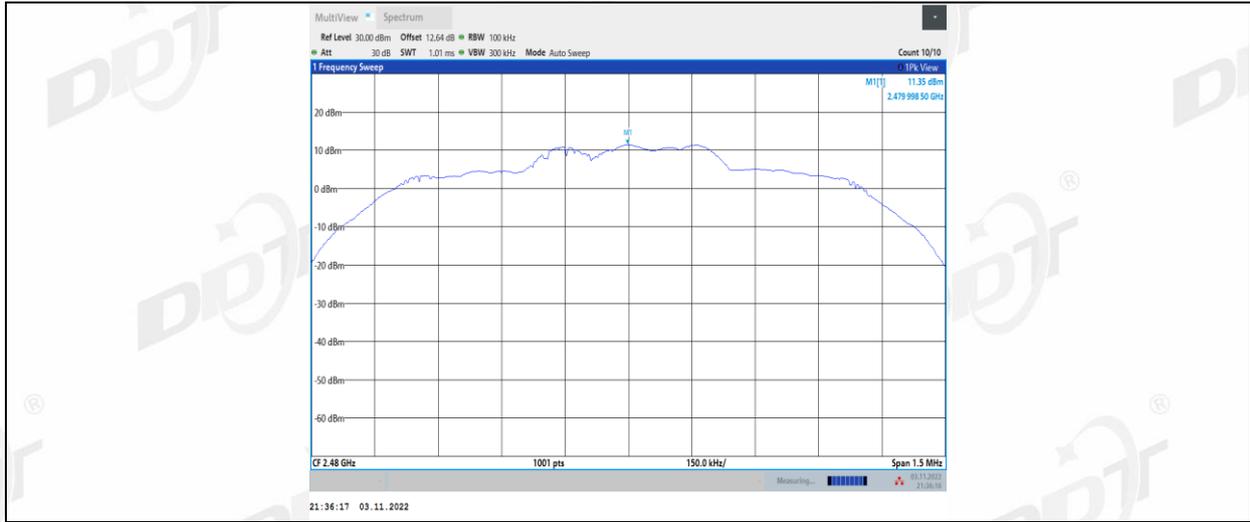
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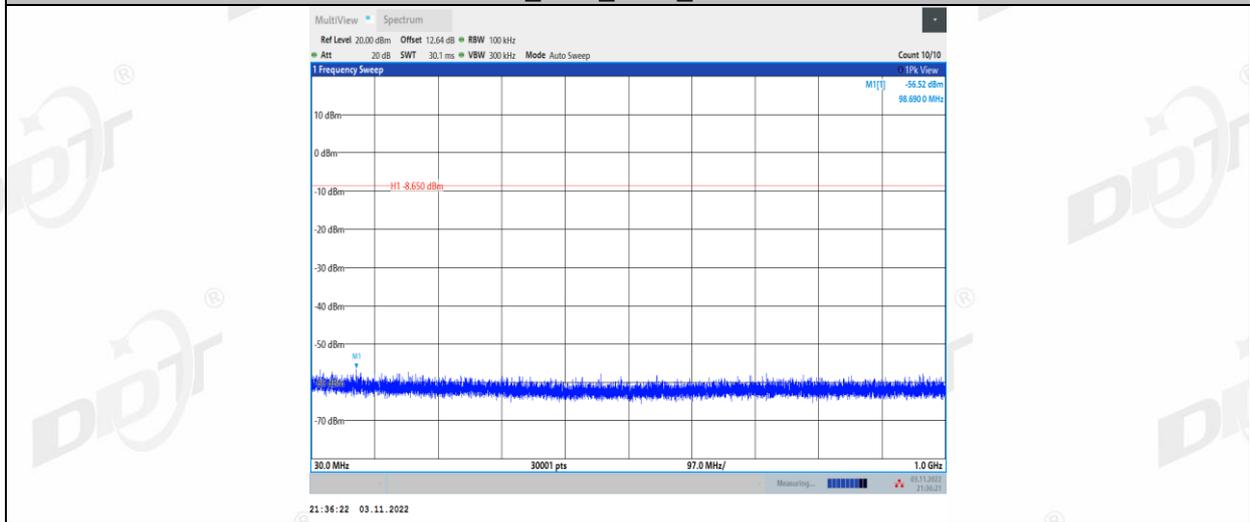
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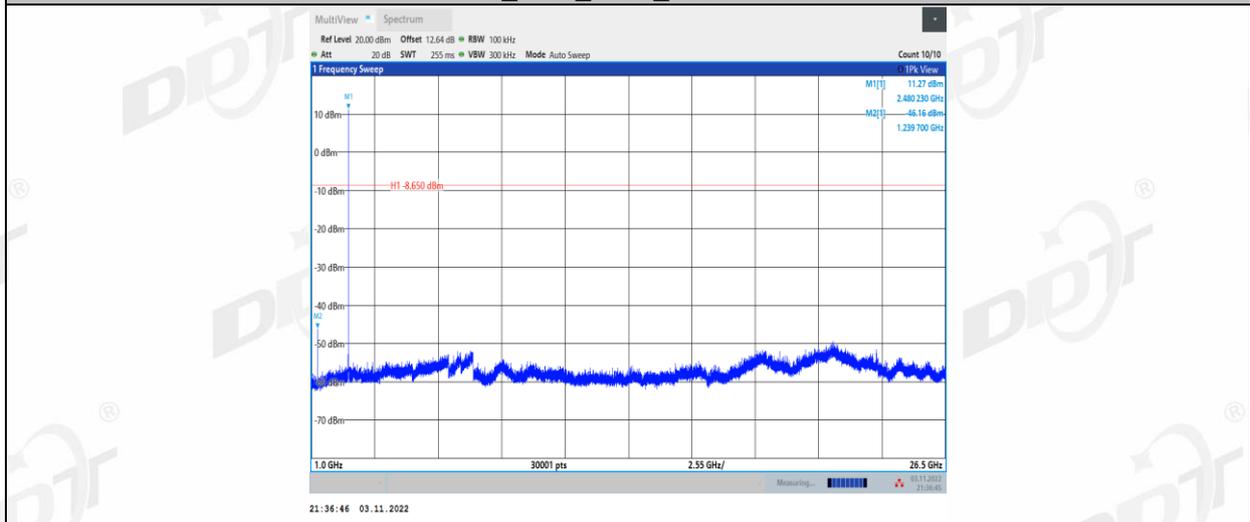
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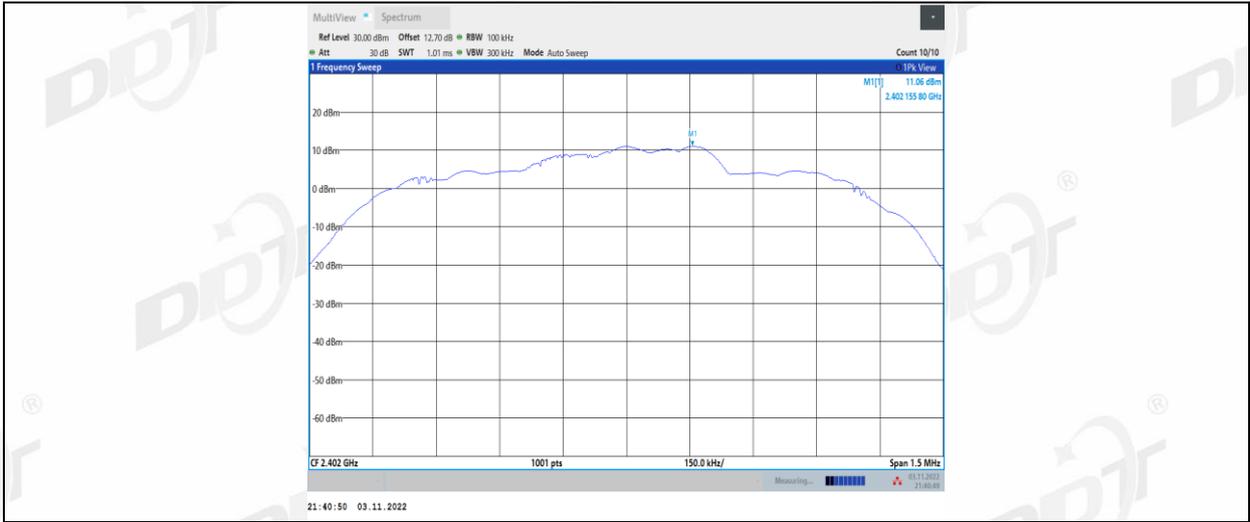
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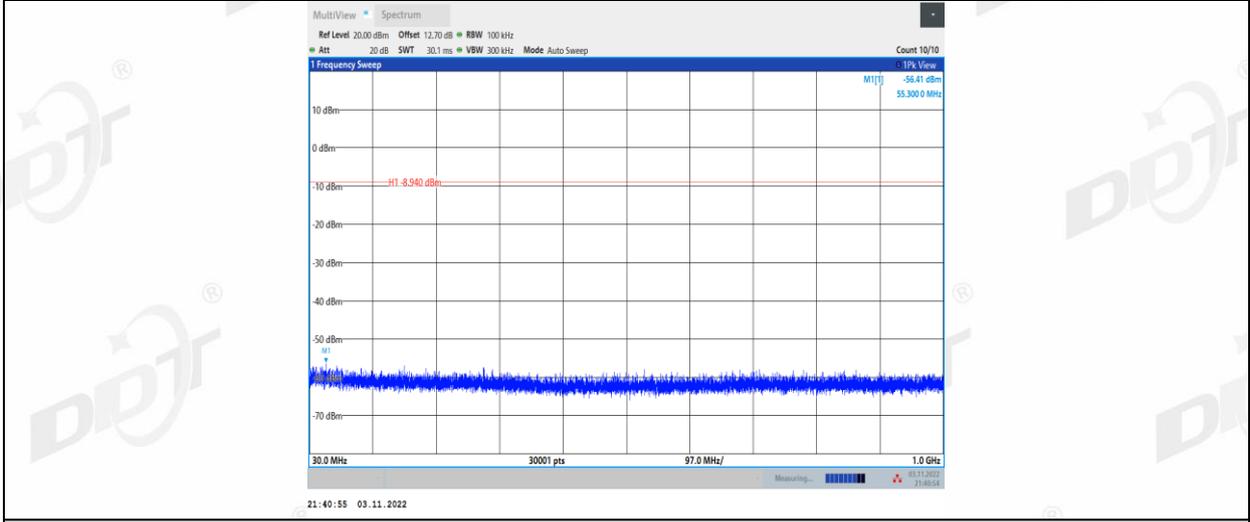
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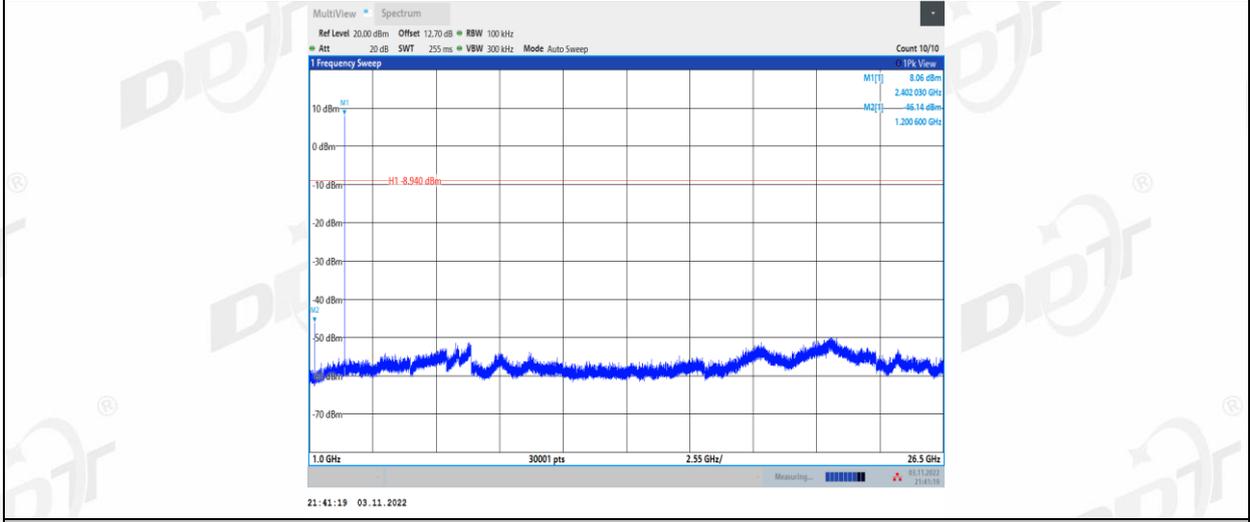
3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

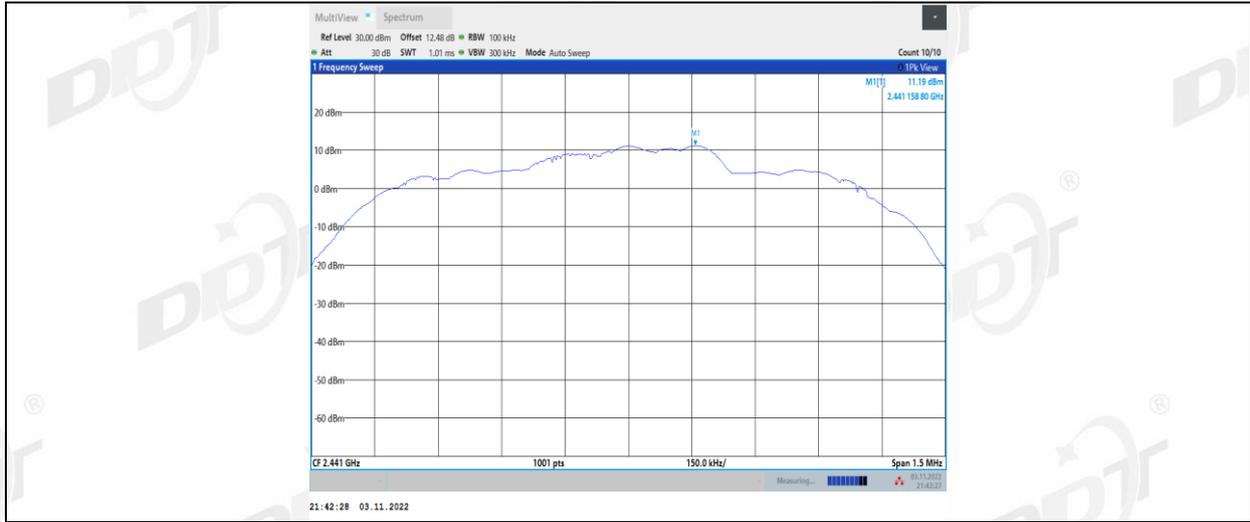


3DH5\_Ant1\_2402\_1000~26500

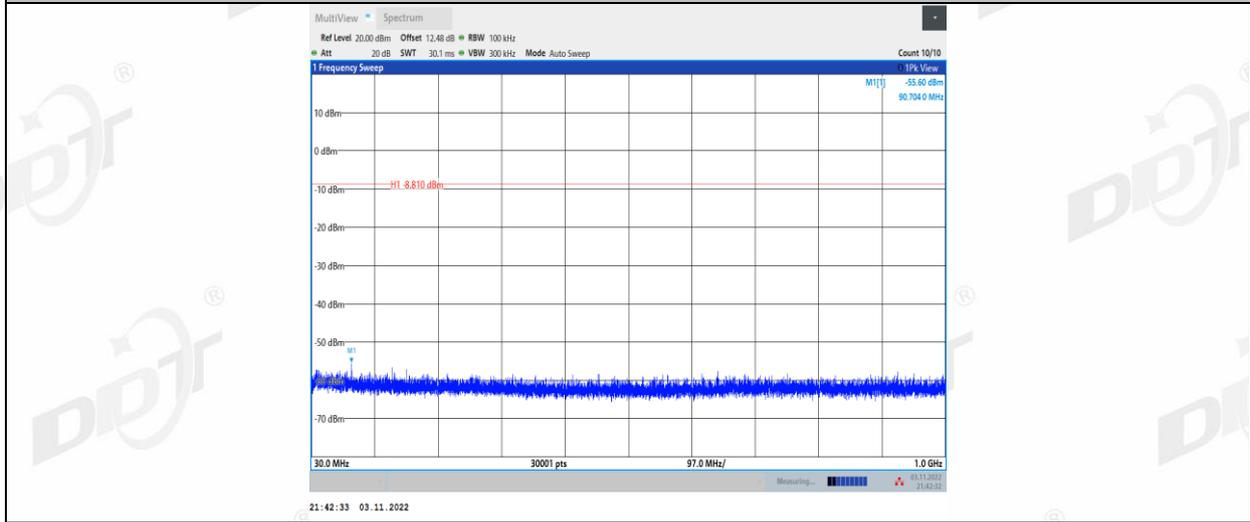


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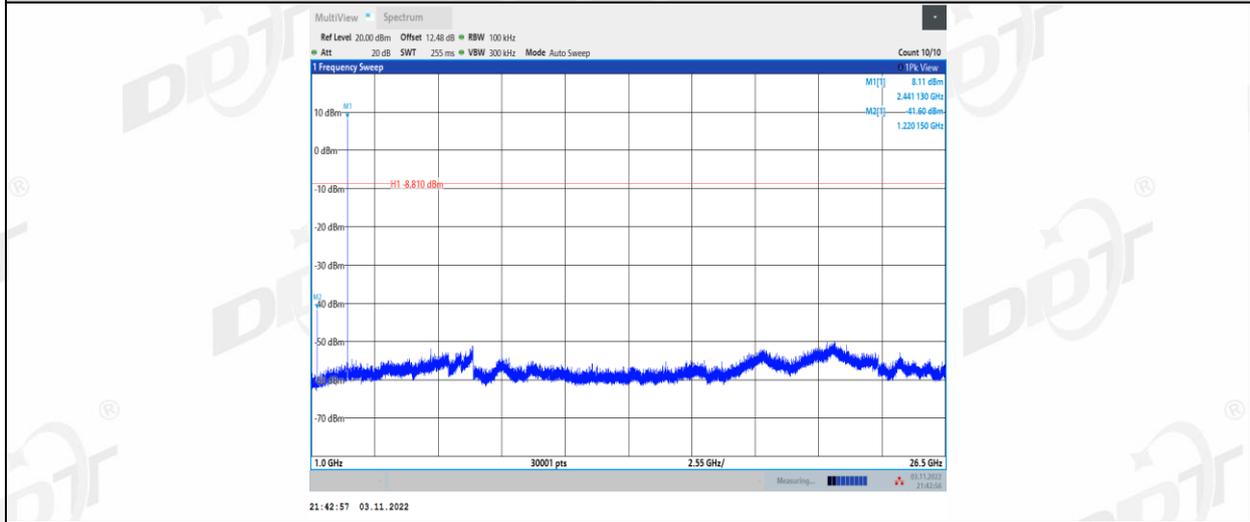




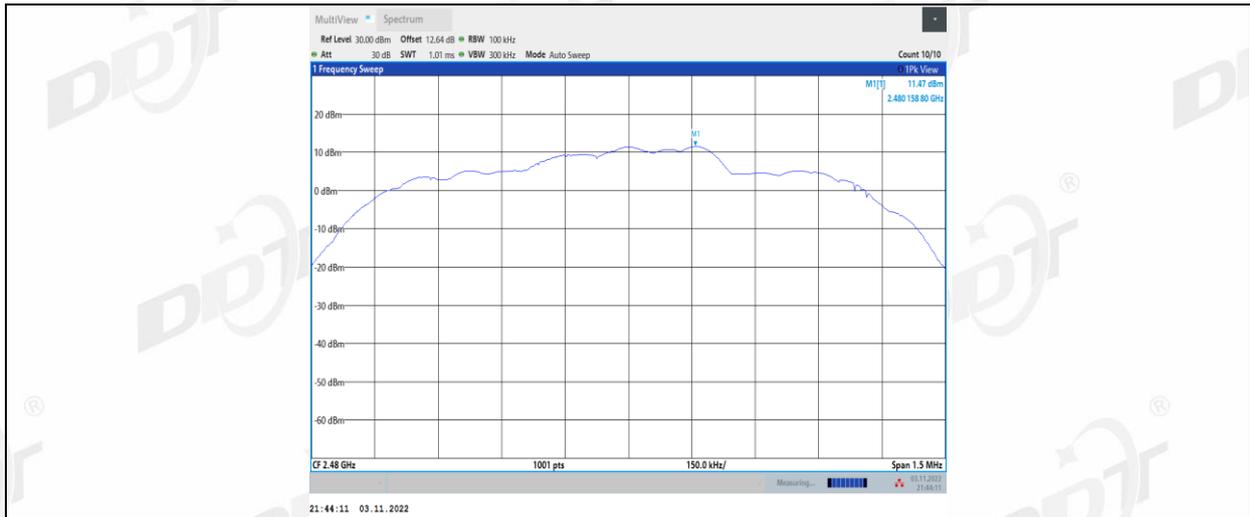
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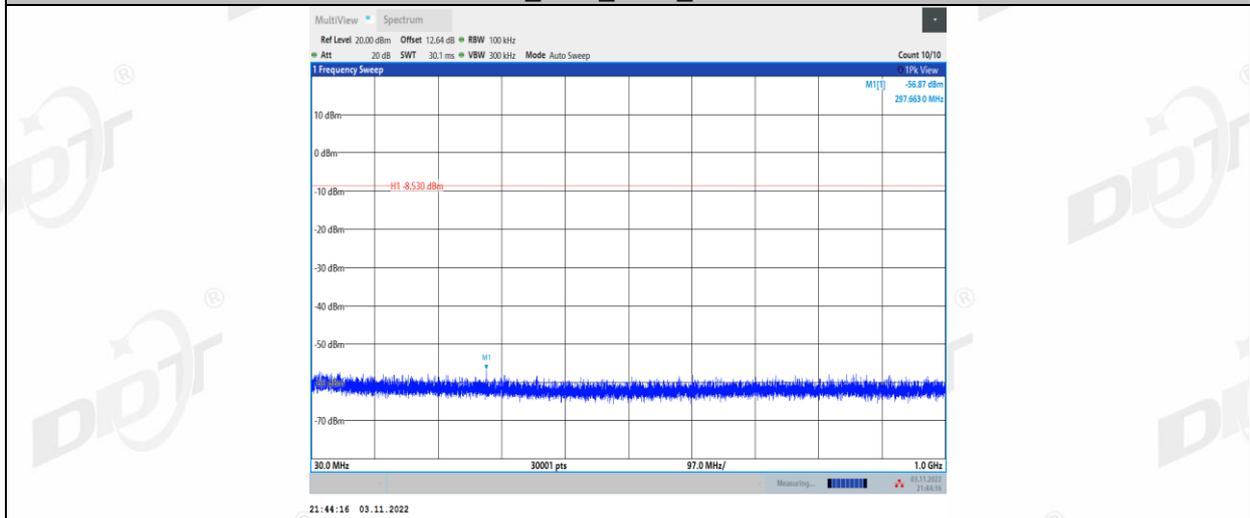
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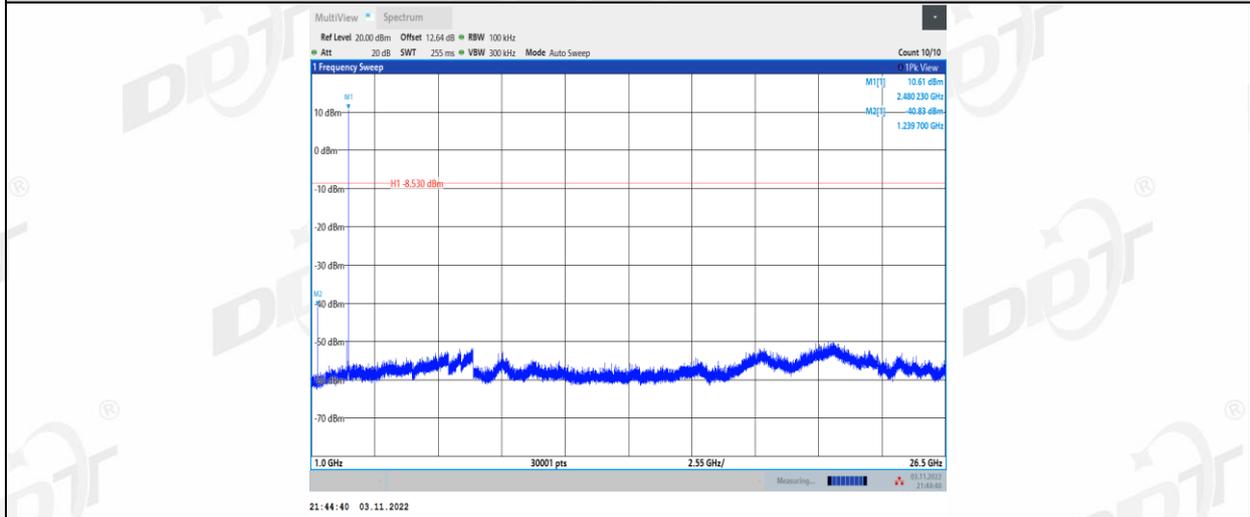
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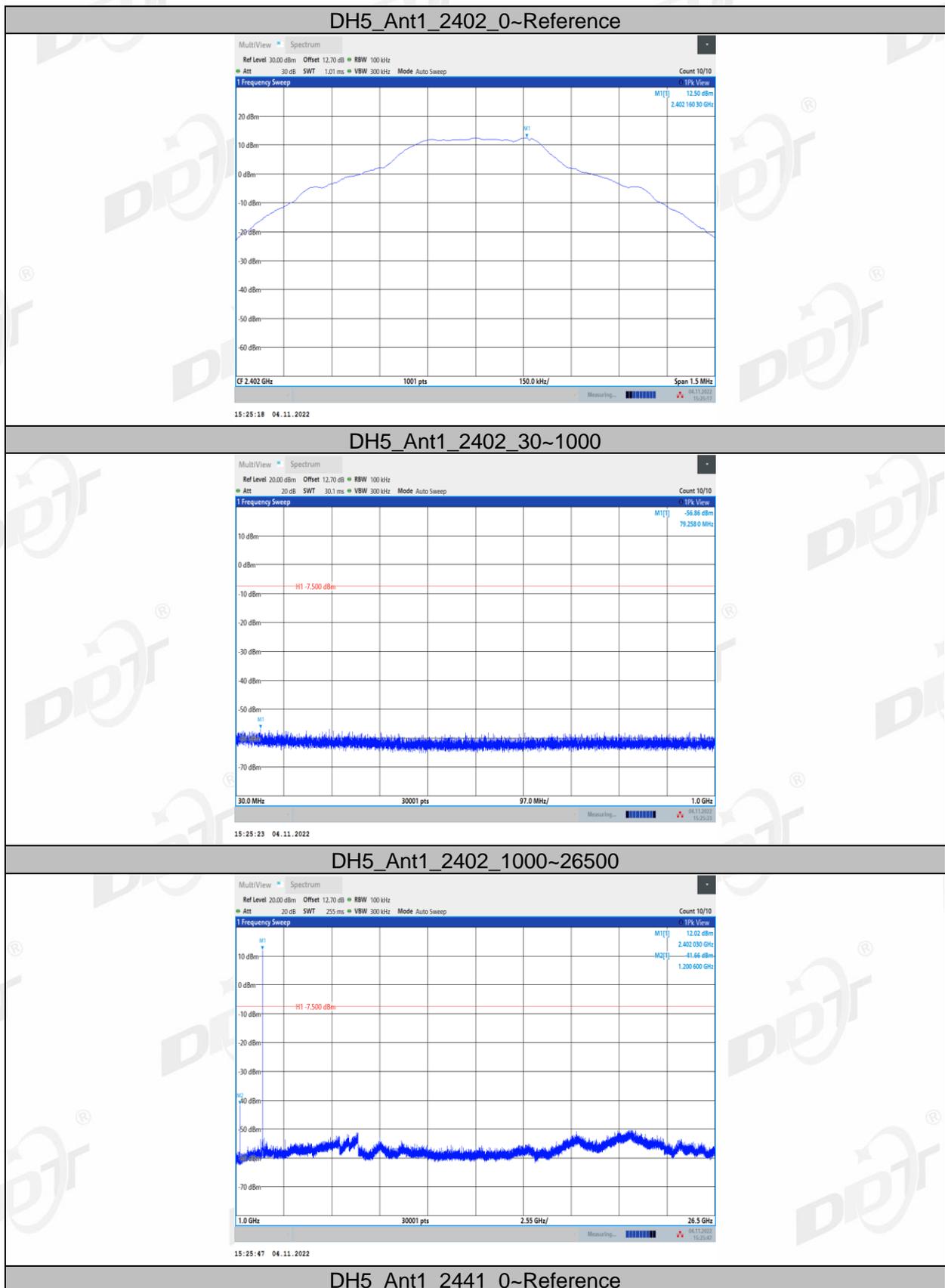
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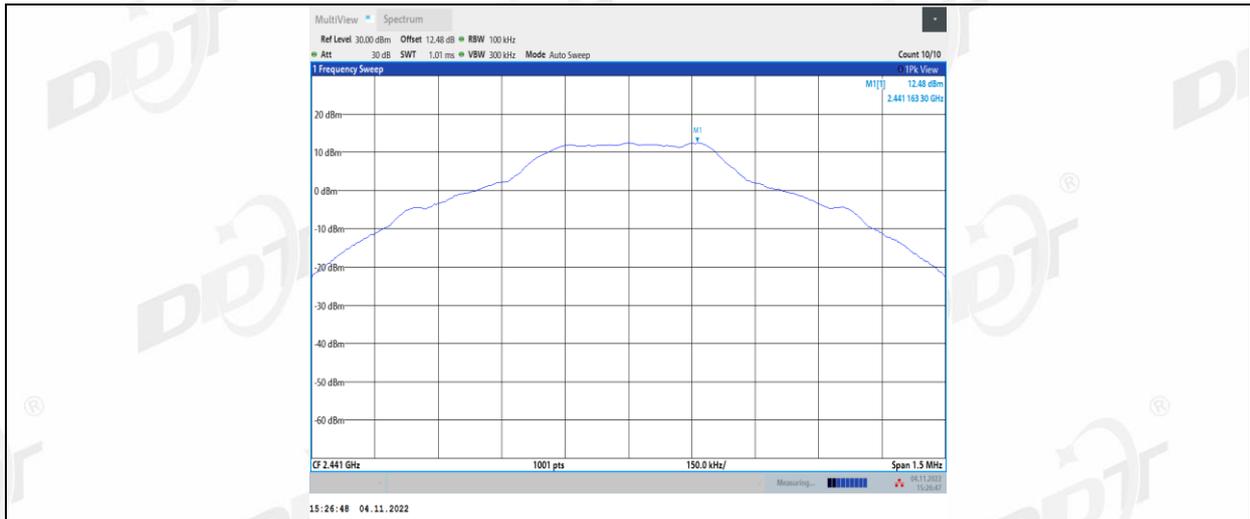


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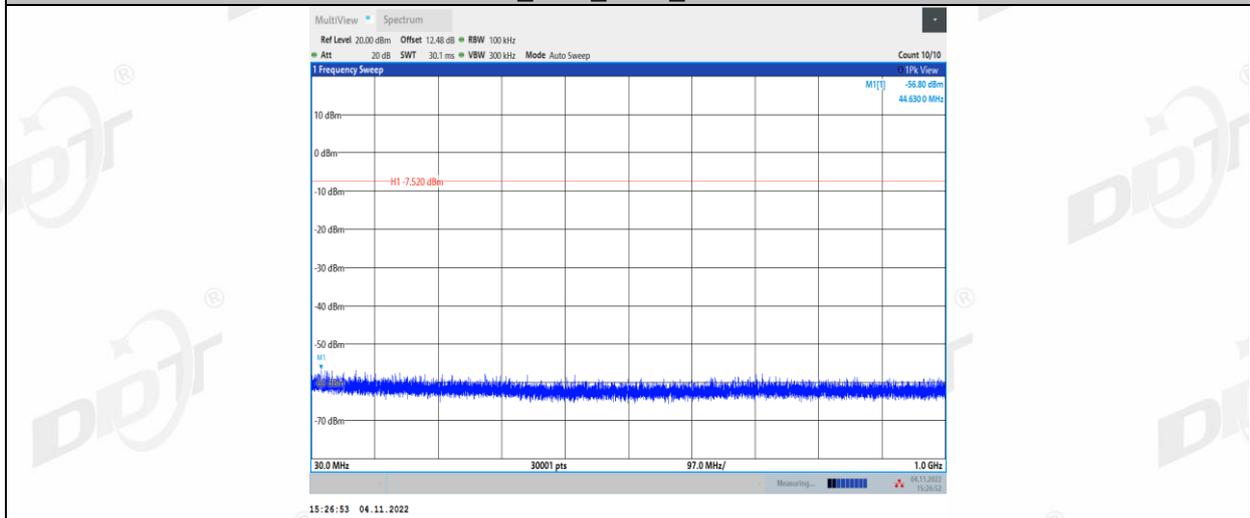


Right side:

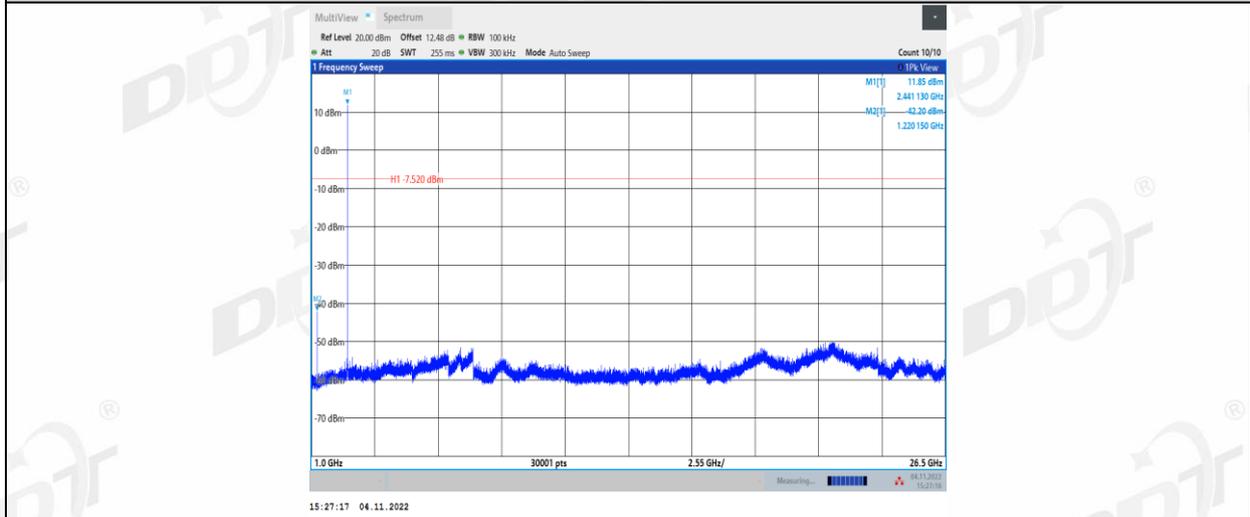




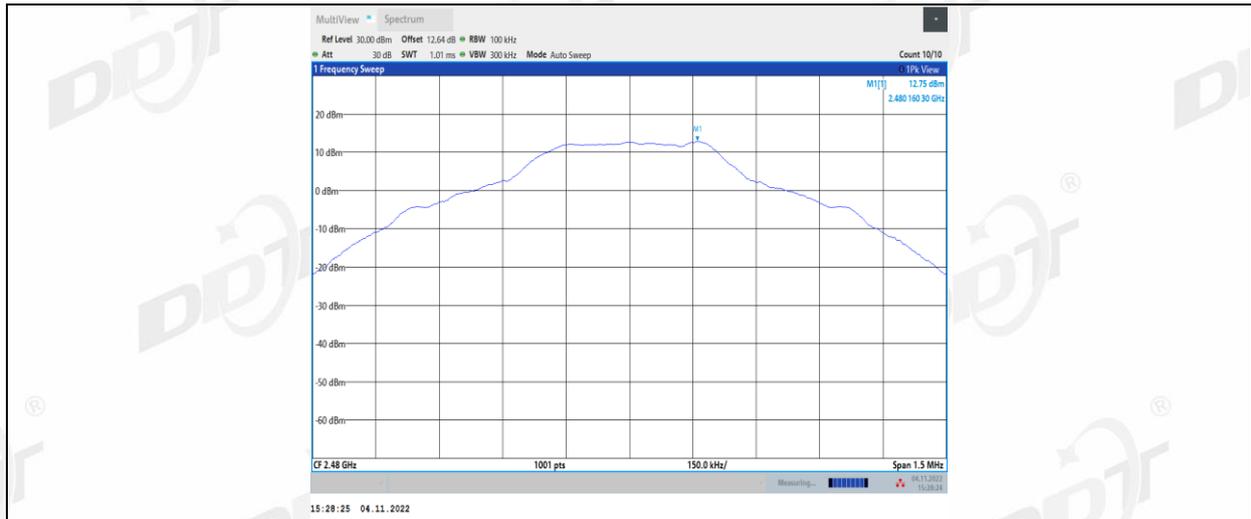
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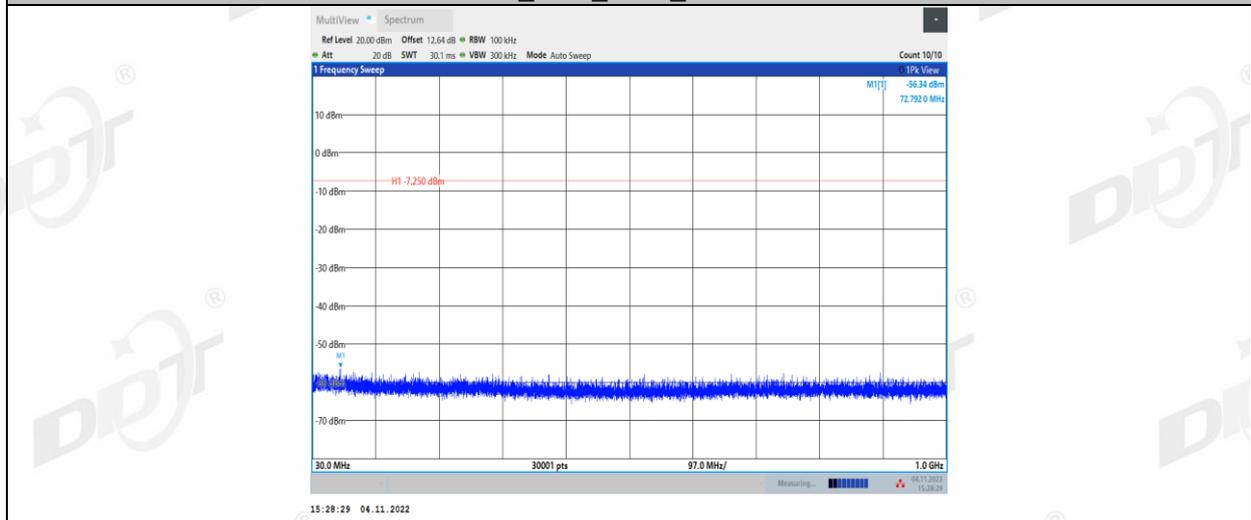
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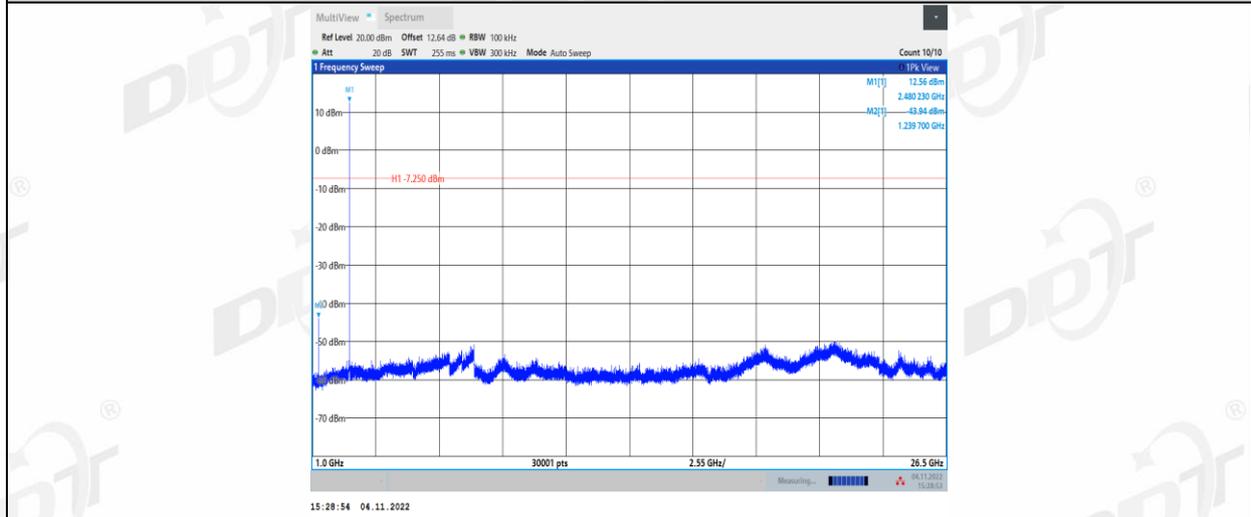
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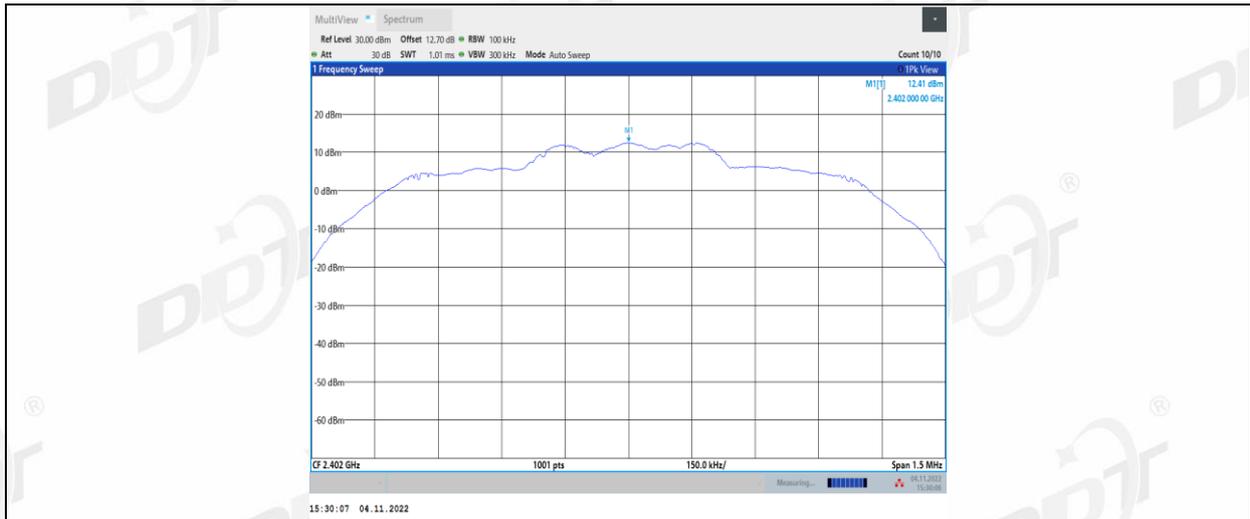
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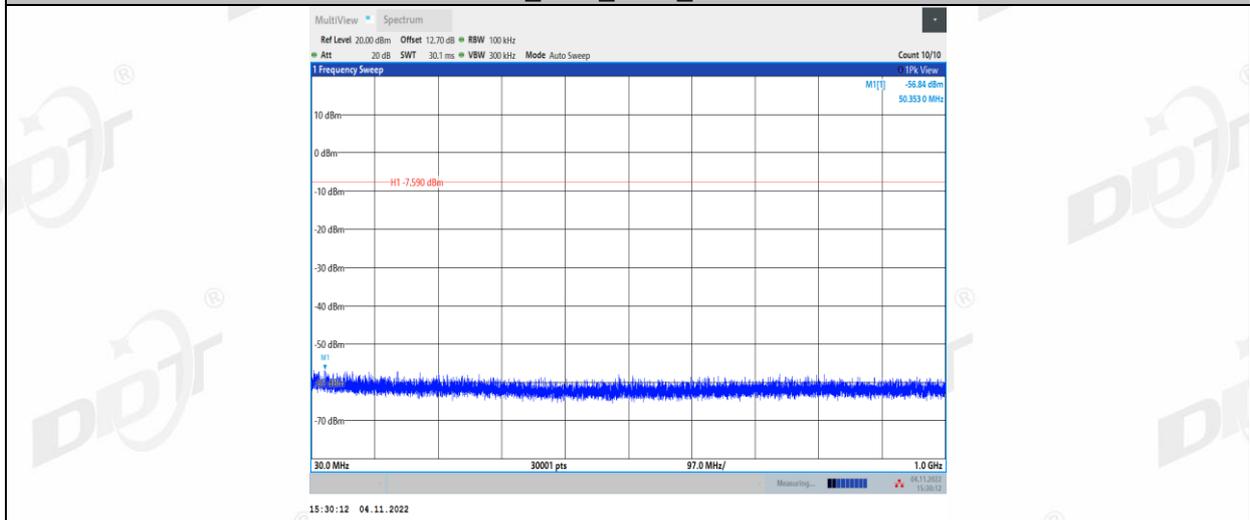
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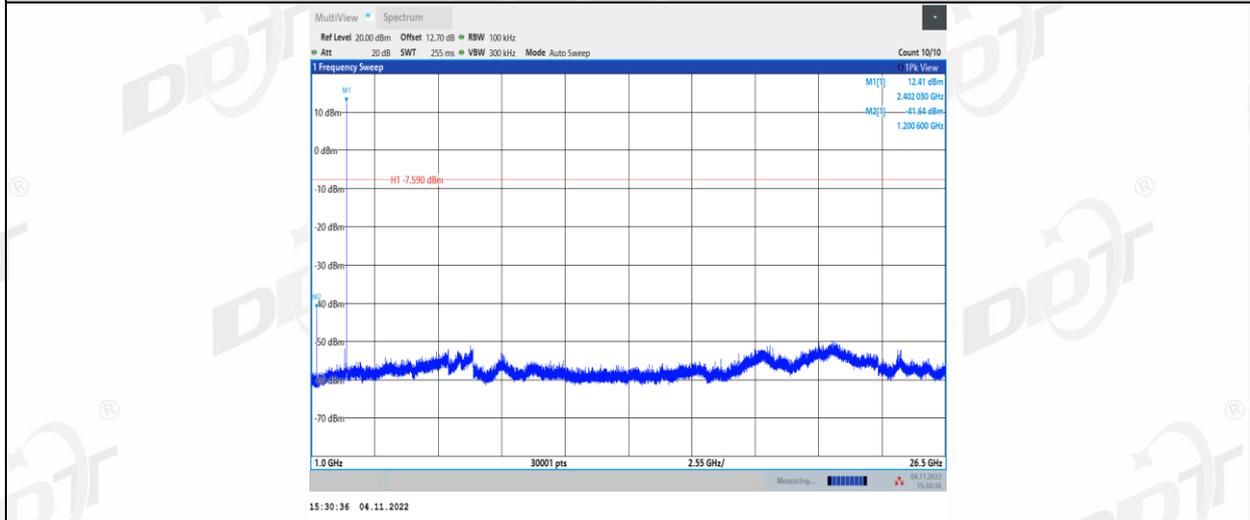
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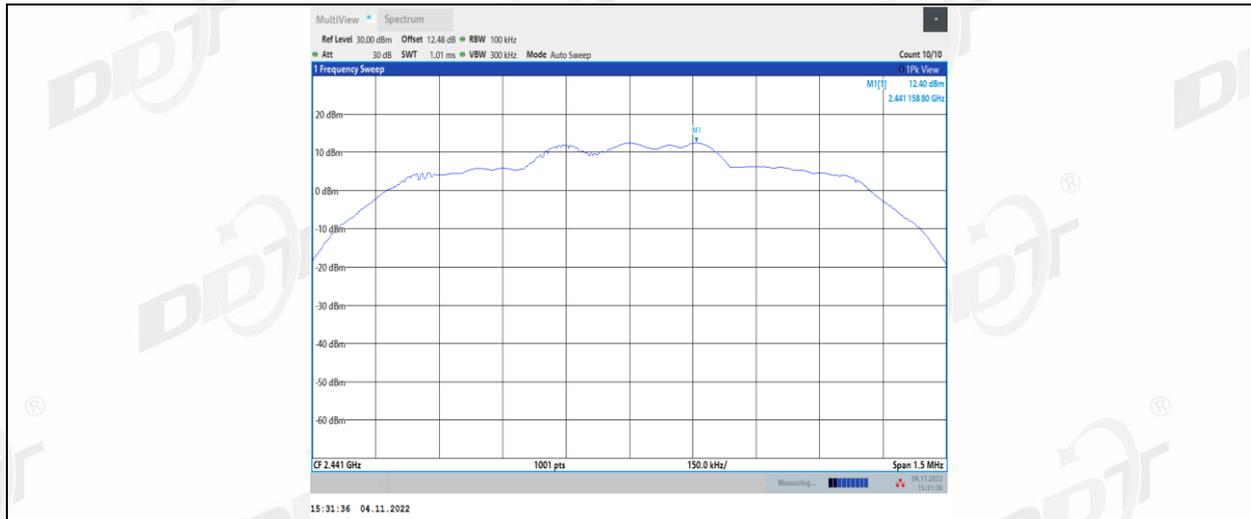
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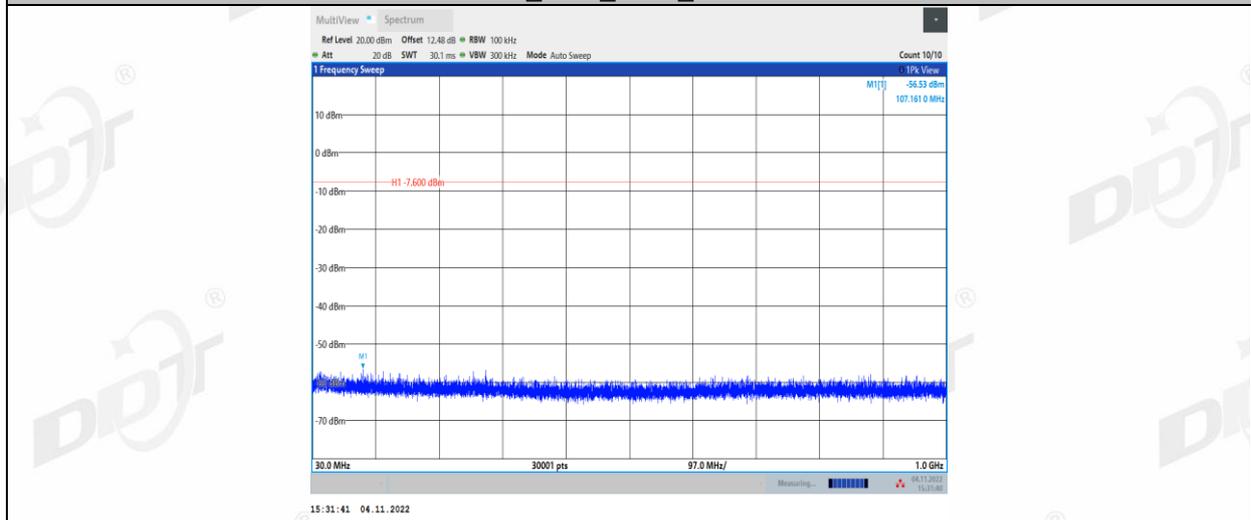
2DH5\_Ant1\_2402\_1000~26500



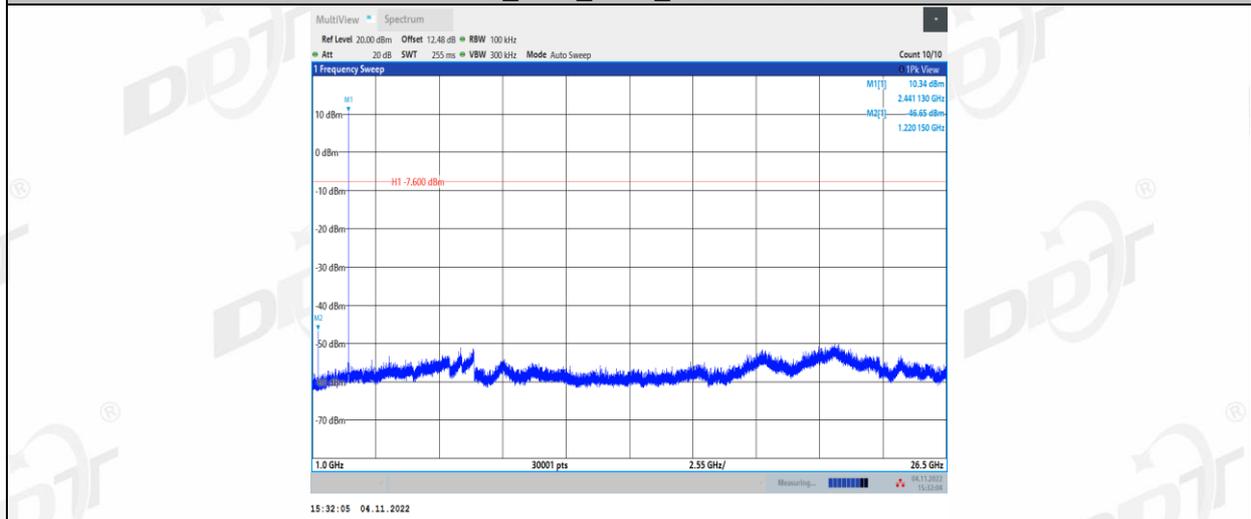
2DH5\_Ant1\_2441\_0~Reference



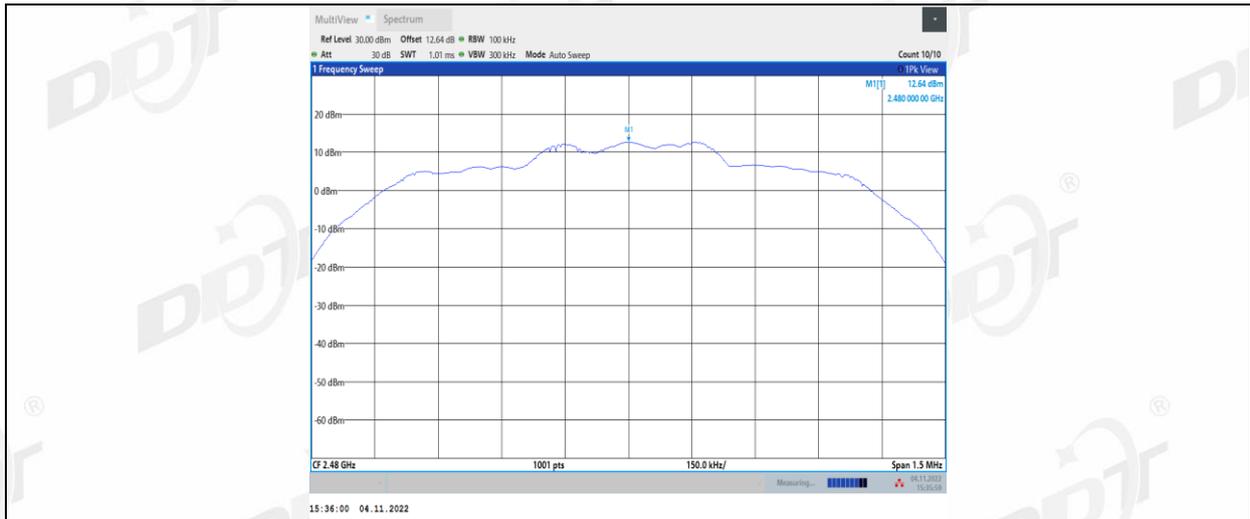
2DH5\_Ant1\_2441\_30~1000



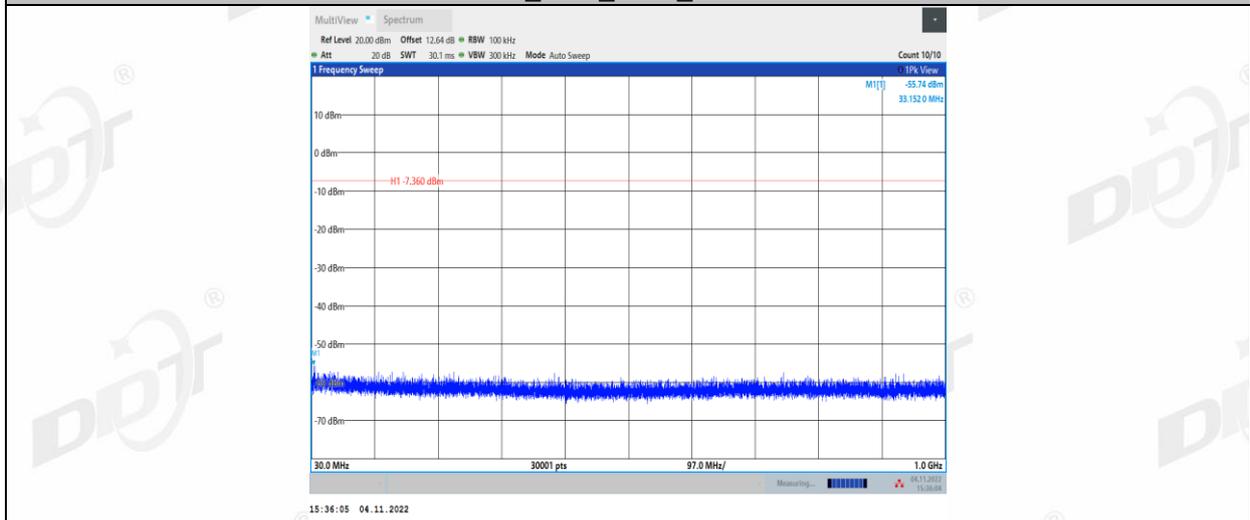
2DH5\_Ant1\_2441\_1000~26500



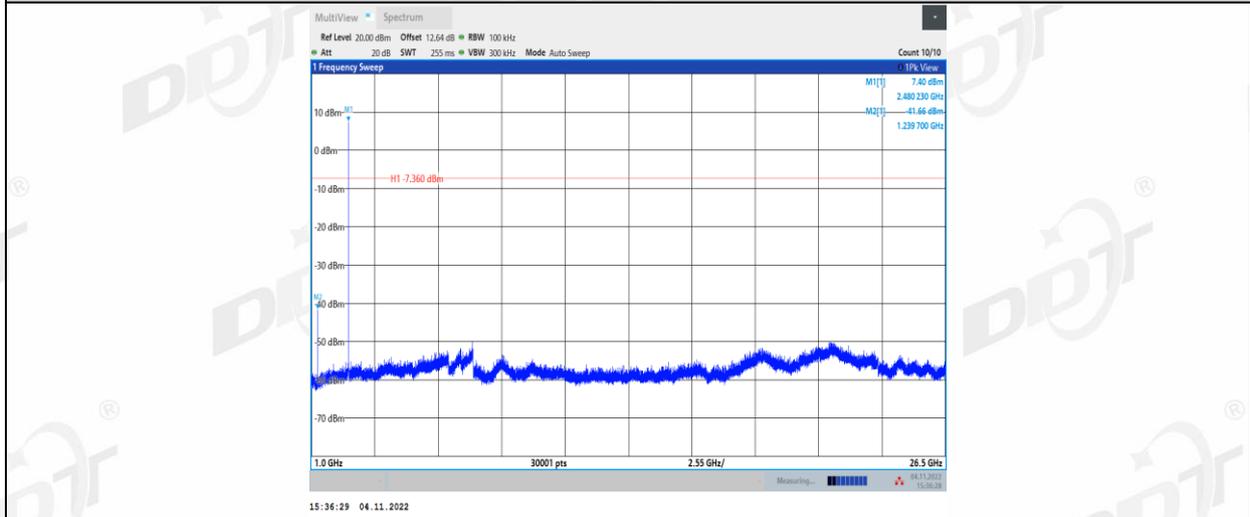
2DH5\_Ant1\_2480\_0~Reference



2DH5\_Ant1\_2480\_30~1000

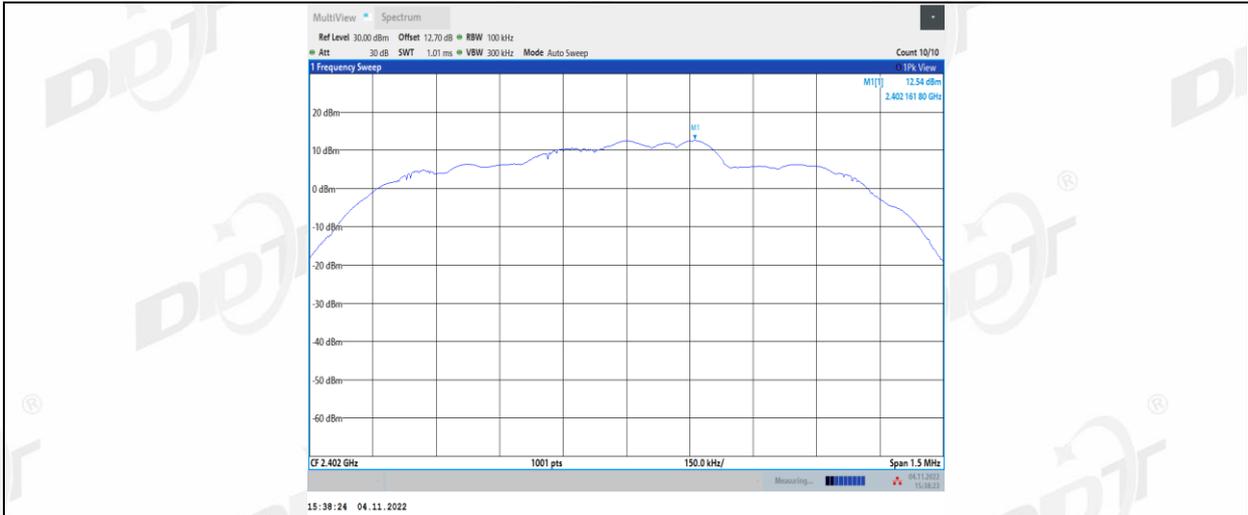


2DH5\_Ant1\_2480\_1000~26500

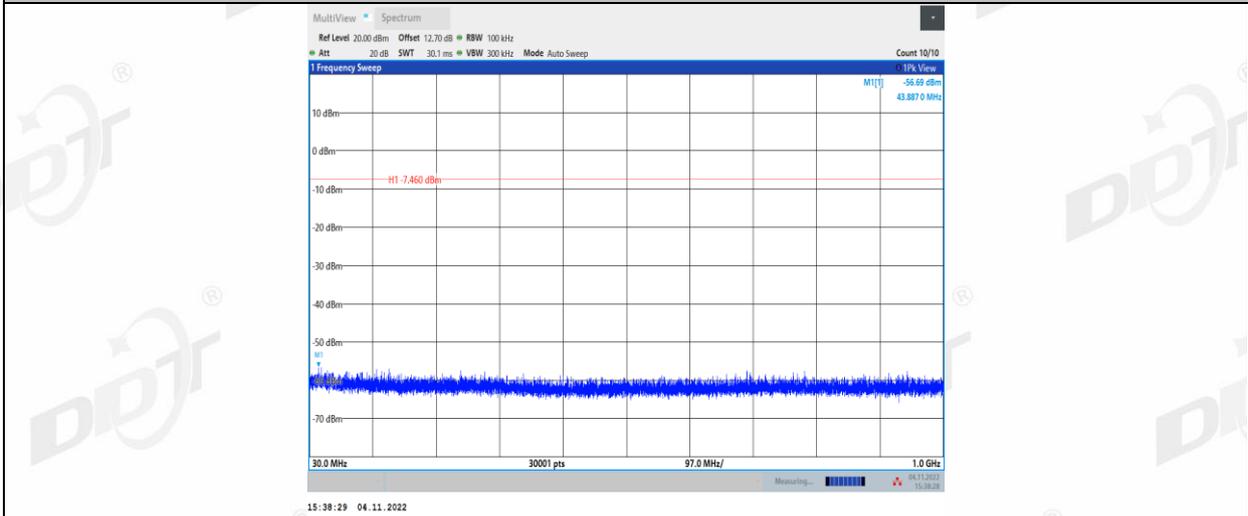


3DH5\_Ant1\_2402\_0~Reference

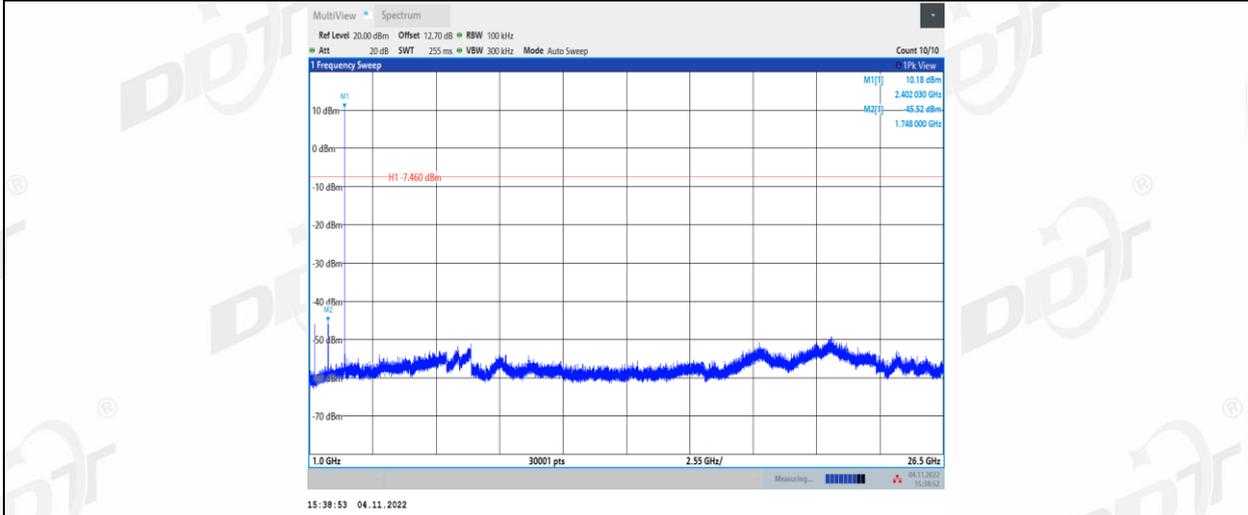




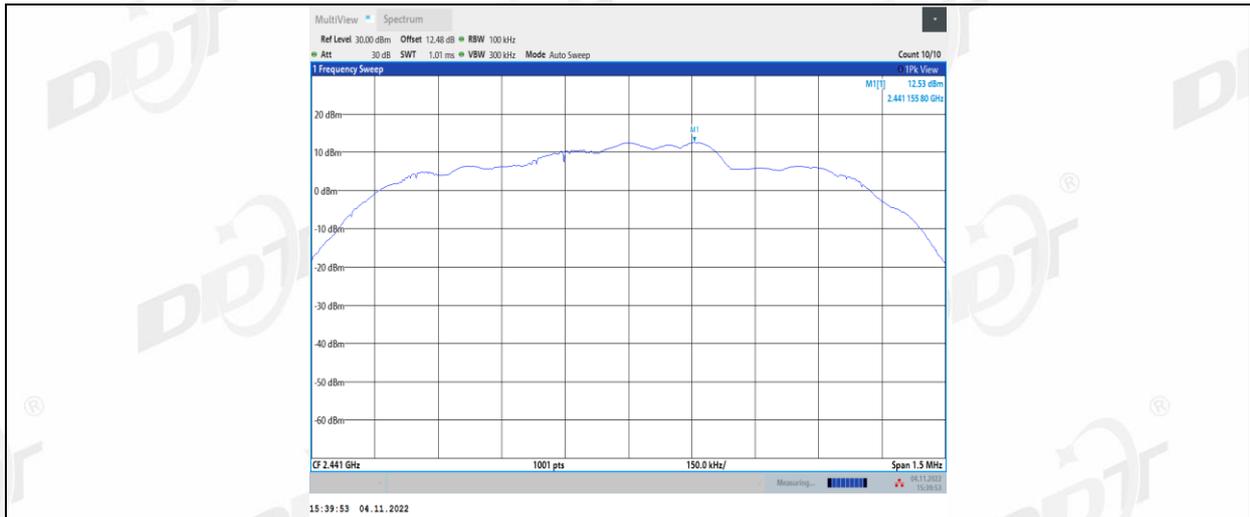
3DH5\_Ant1\_2402\_30~1000



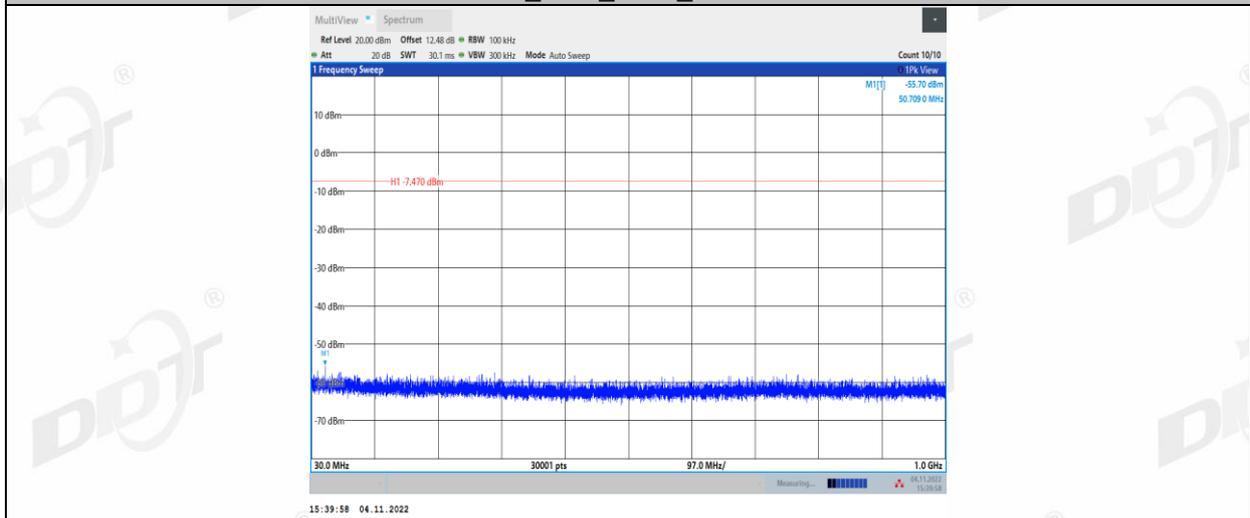
3DH5\_Ant1\_2402\_1000~26500



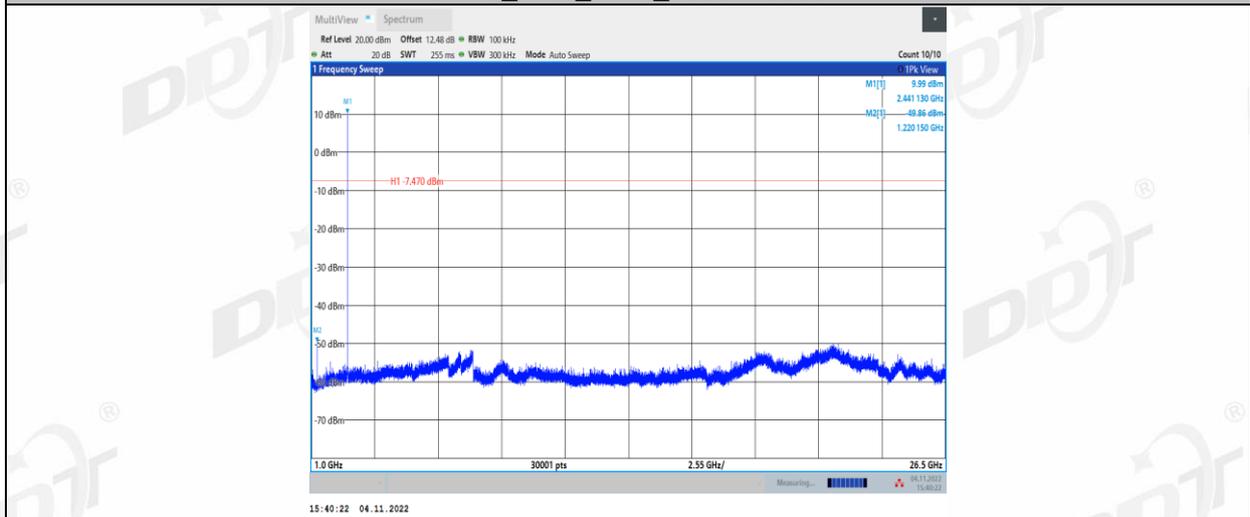
3DH5\_Ant1\_2441\_0~Reference



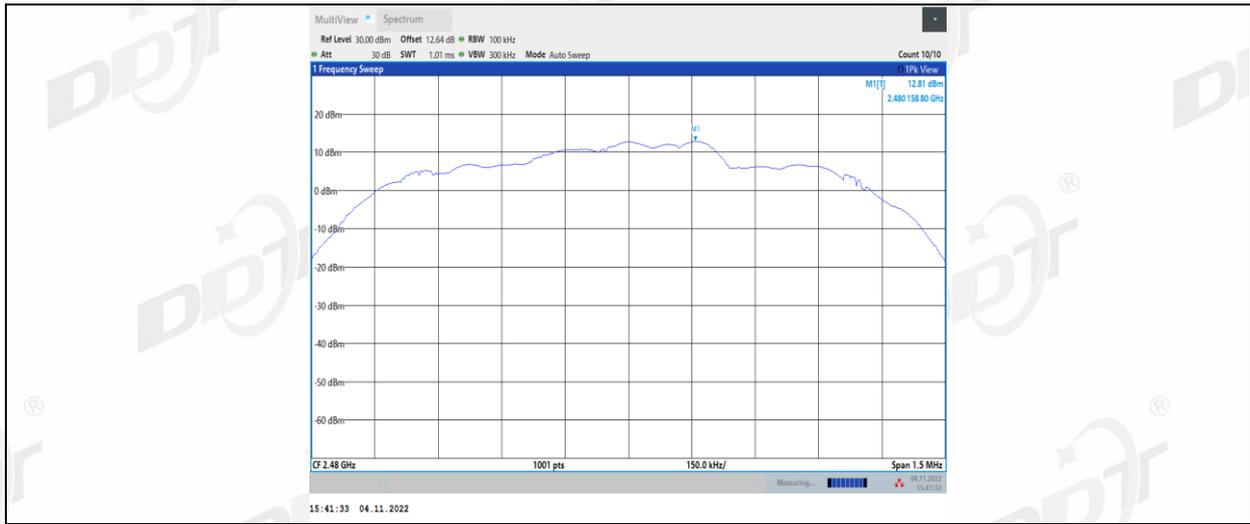
3DH5\_Ant1\_2441\_30~1000



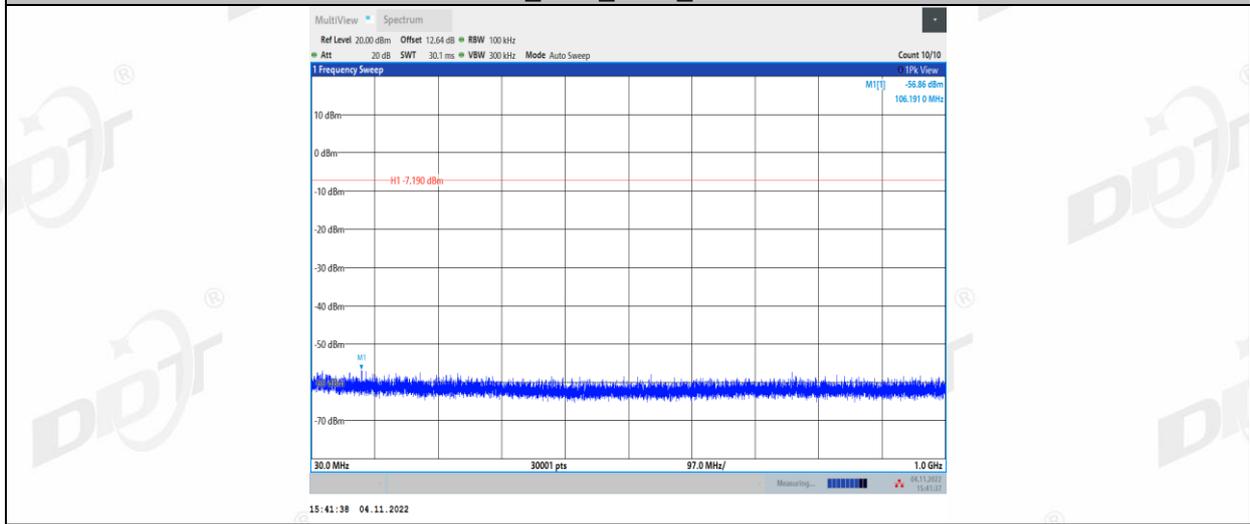
3DH5\_Ant1\_2441\_1000~26500



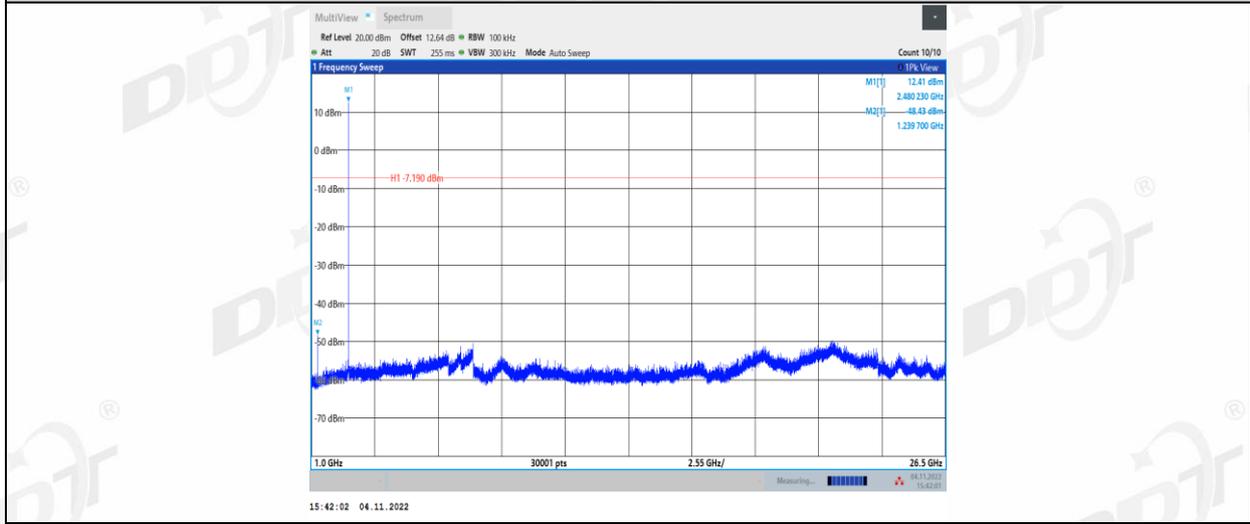
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



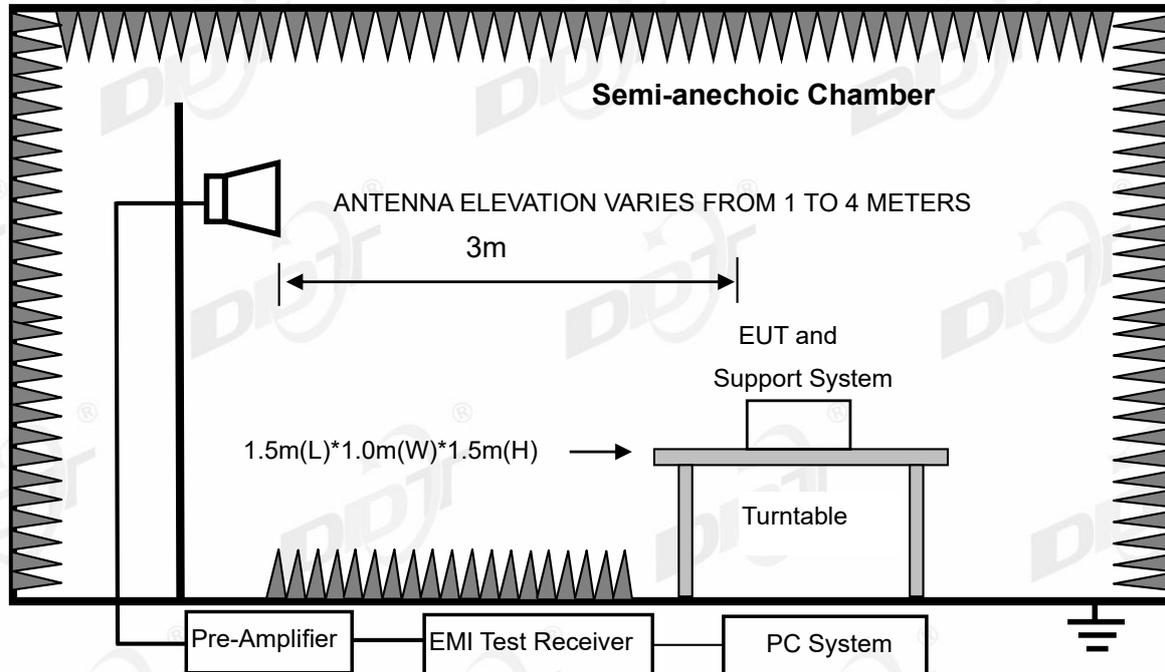
3DH5\_Ant1\_2480\_1000~26500



## 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 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

### 12.3. Test Procedure

Same with clause 10.3 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

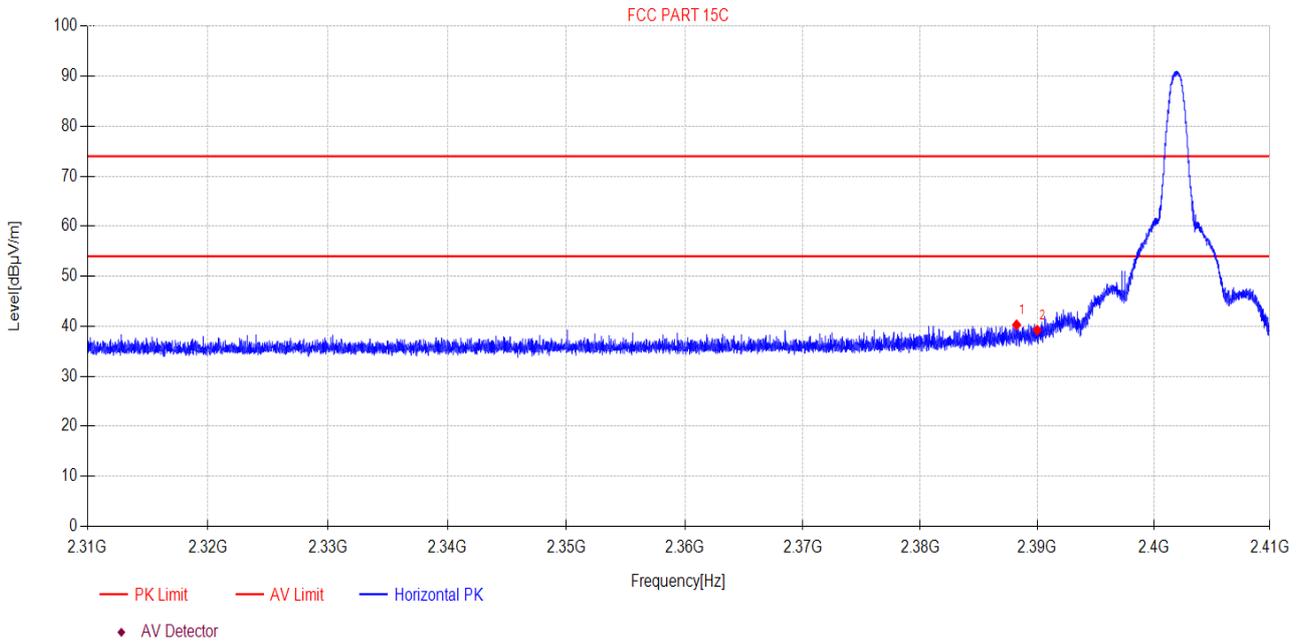
Pass. (See below detailed test result)

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.

The final test was only performed with EUT working in Right side Tx mode.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\37  
**Memo:** DH5 2402

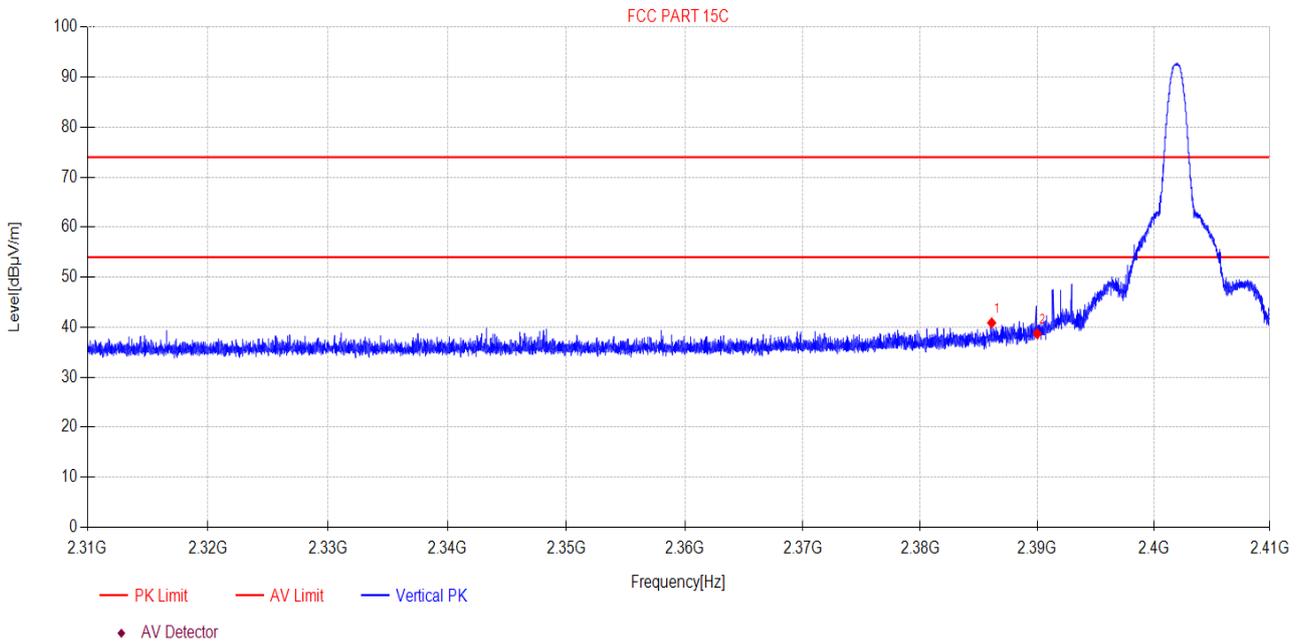


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2388.23	50.01	-9.72	40.29	74.00	33.71	PK	Horizontal
2	2390.00	48.94	-9.72	39.22	74.00	34.78	PK	Horizontal

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\38  
**Memo:** DH5 2402



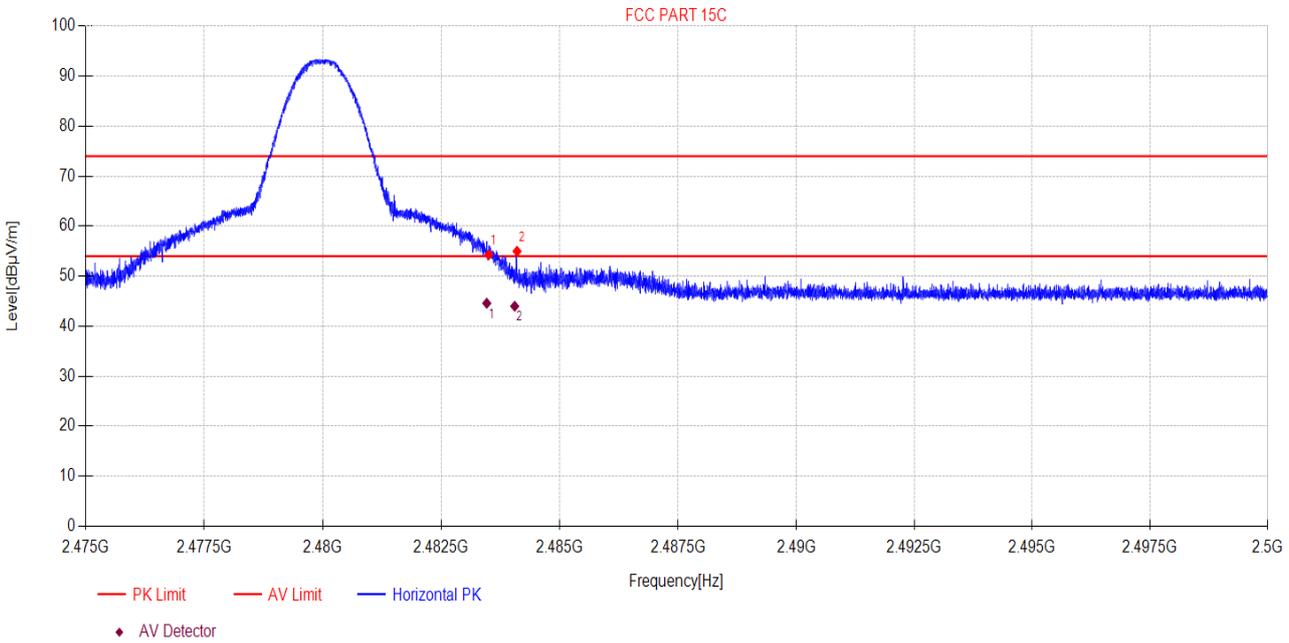
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2386.10	50.60	-9.73	40.87	74.00	33.13	PK	Vertical
2	2390.00	48.43	-9.72	38.71	74.00	35.29	PK	Vertical

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\43  
**Memo:** DH5 2480

## Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.74	0.54	54.28	74.00	19.72	PK	Horizontal
2	2484.10	54.42	0.55	54.97	74.00	19.03	PK	Horizontal

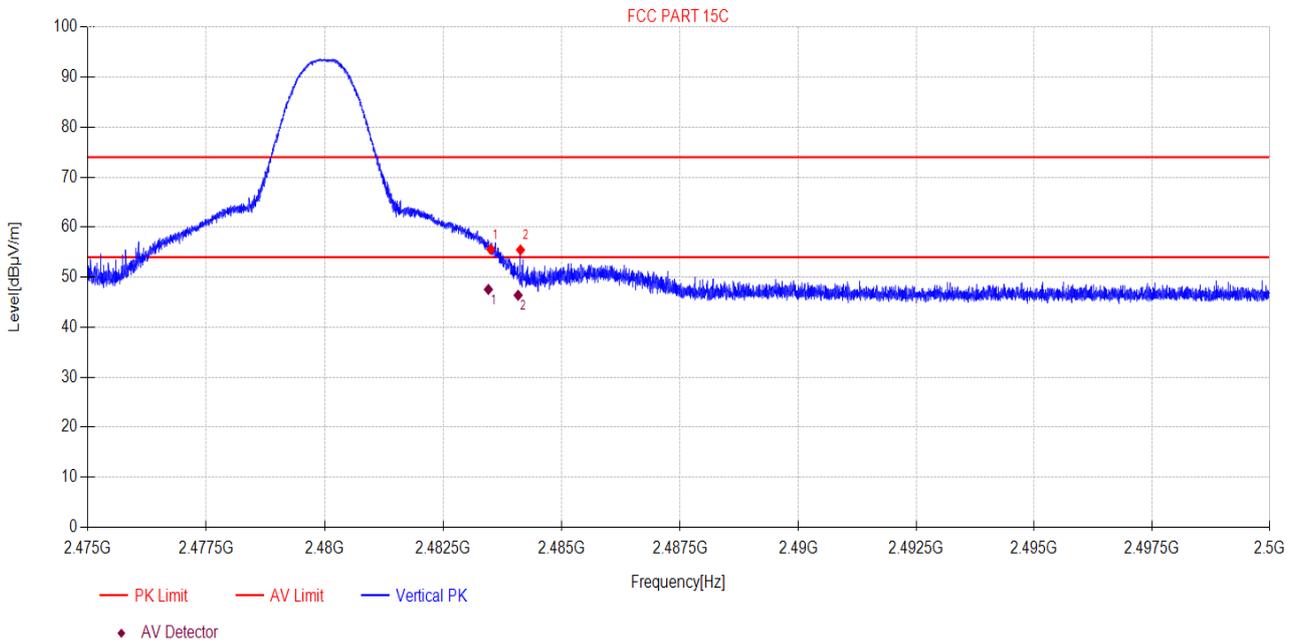
Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.46	44.04	0.55	44.59	54.00	9.41	AV	Horizontal
2	2484.05	43.43	0.56	43.99	54.00	10.01	AV	Horizontal

Note:

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\44  
**Memo:** DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	55.02	0.54	55.56	74.00	18.44	PK	Vertical
2	2484.13	54.91	0.55	55.46	74.00	18.54	PK	Vertical

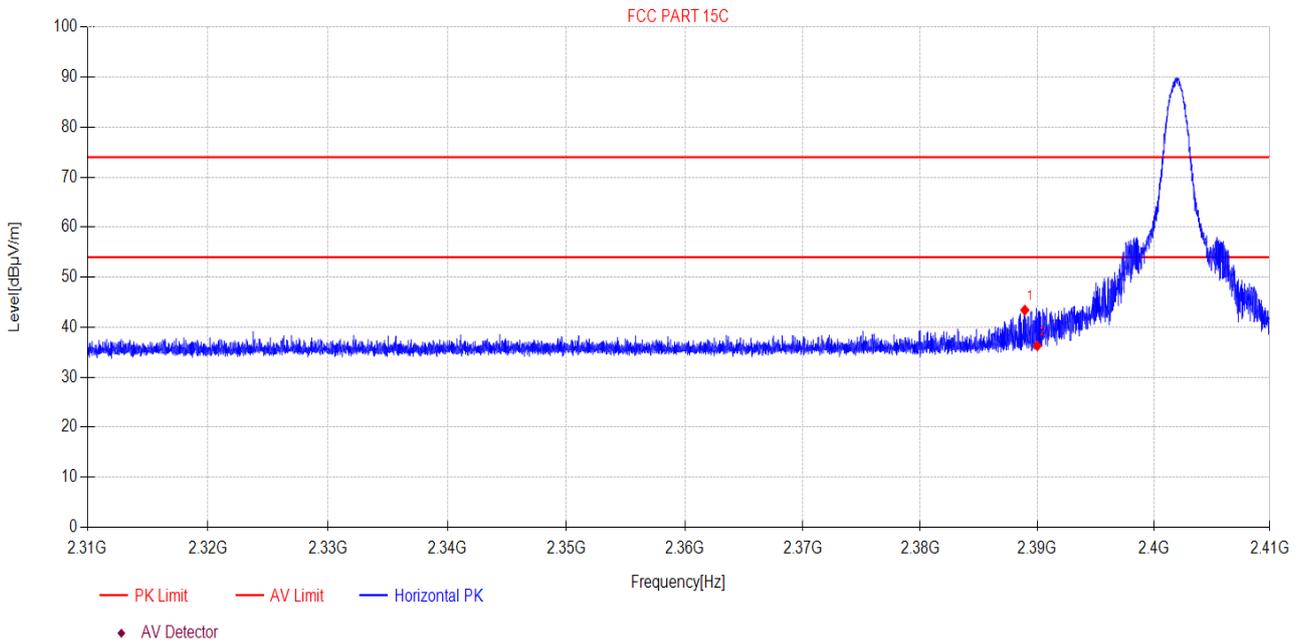
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.45	47.00	0.55	47.55	54.00	6.45	AV	Vertical
2	2484.08	45.83	0.56	46.39	54.00	7.61	AV	Vertical

- Note:
1. Level = Reading + Factor.
  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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\39  
**Memo:** 2DH5 2402

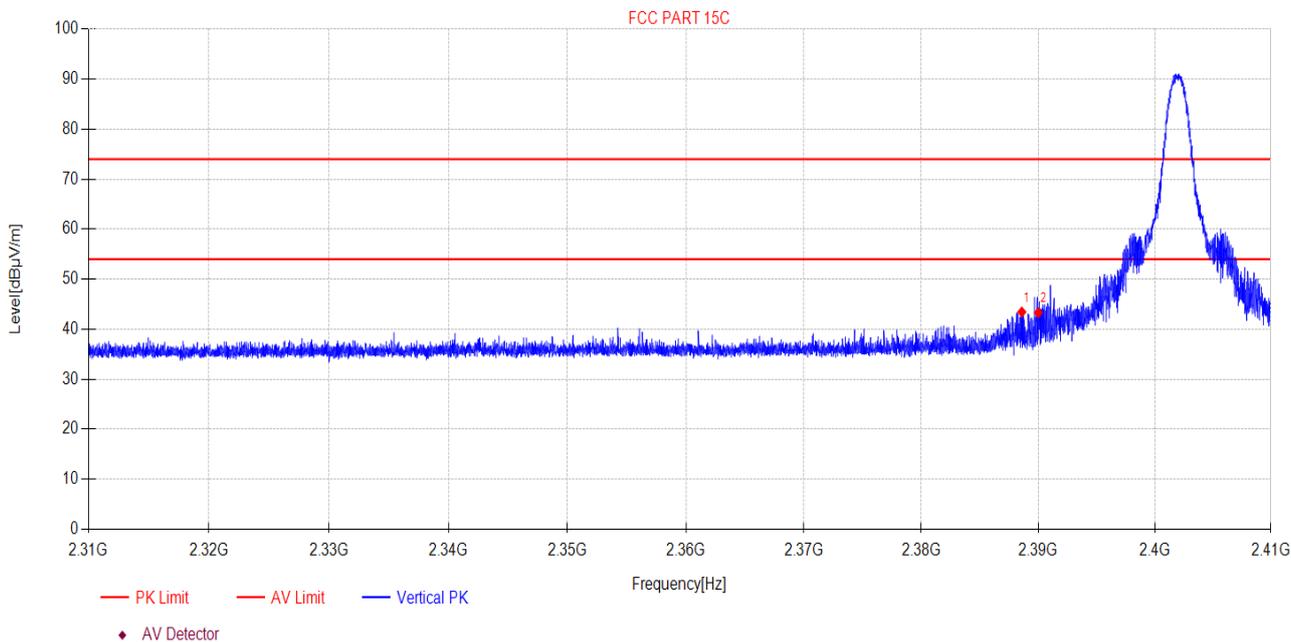


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2388.93	53.13	-9.72	43.41	74.00	30.59	PK	Horizontal
2	2390.00	46.00	-9.72	36.28	74.00	37.72	PK	Horizontal

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\40  
**Memo:** 2DH5 2402

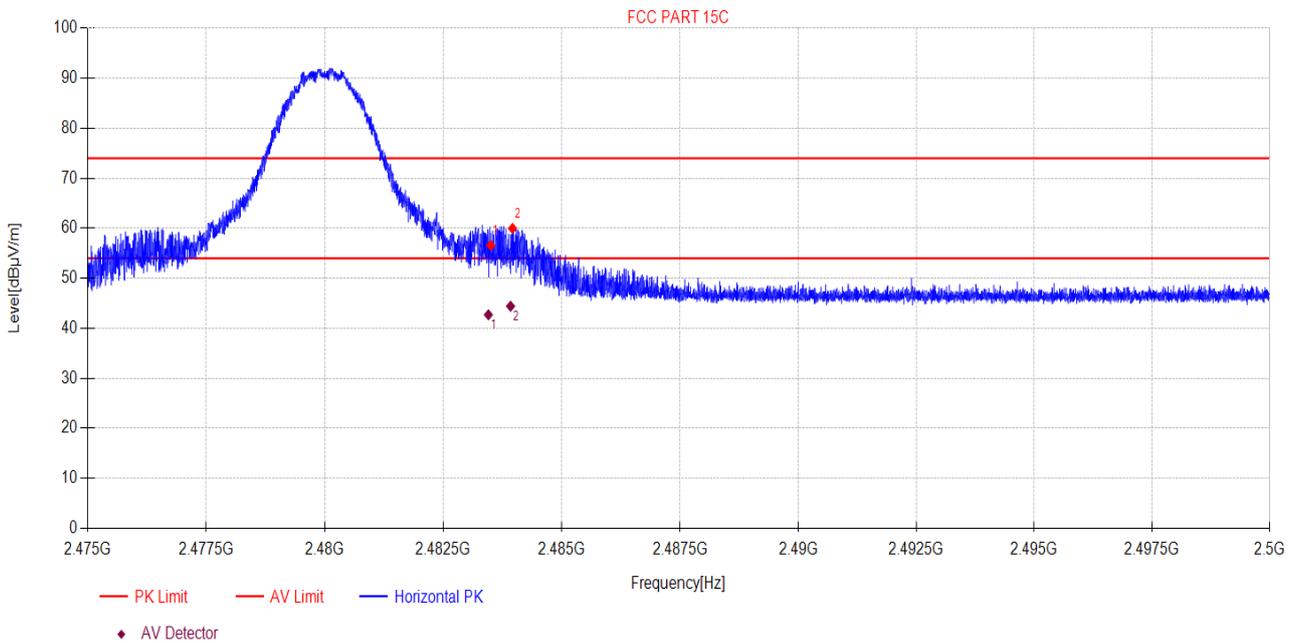


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2388.59	53.16	-9.72	43.44	74.00	30.56	PK	Vertical
2	2390.00	53.01	-9.72	43.29	74.00	30.71	PK	Vertical

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\45  
**Memo:** 2DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	56.03	0.54	56.57	74.00	17.43	PK	Horizontal
2	2483.96	59.42	0.55	59.97	74.00	14.03	PK	Horizontal

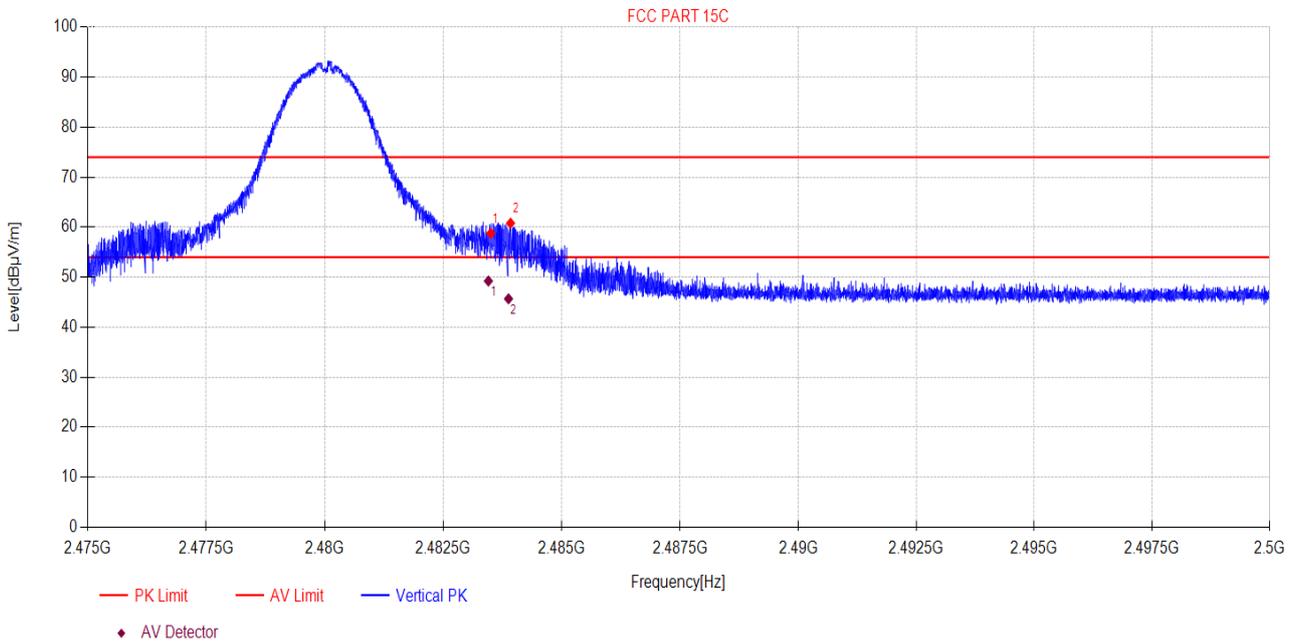
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.45	42.15	0.55	42.70	54.00	11.30	AV	Horizontal
2	2483.92	43.85	0.56	44.41	54.00	9.59	AV	Horizontal

Note:

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\46  
**Memo:** 2DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	58.23	0.54	58.77	74.00	15.23	PK	Vertical
2	2483.92	60.25	0.55	60.80	74.00	13.20	PK	Vertical

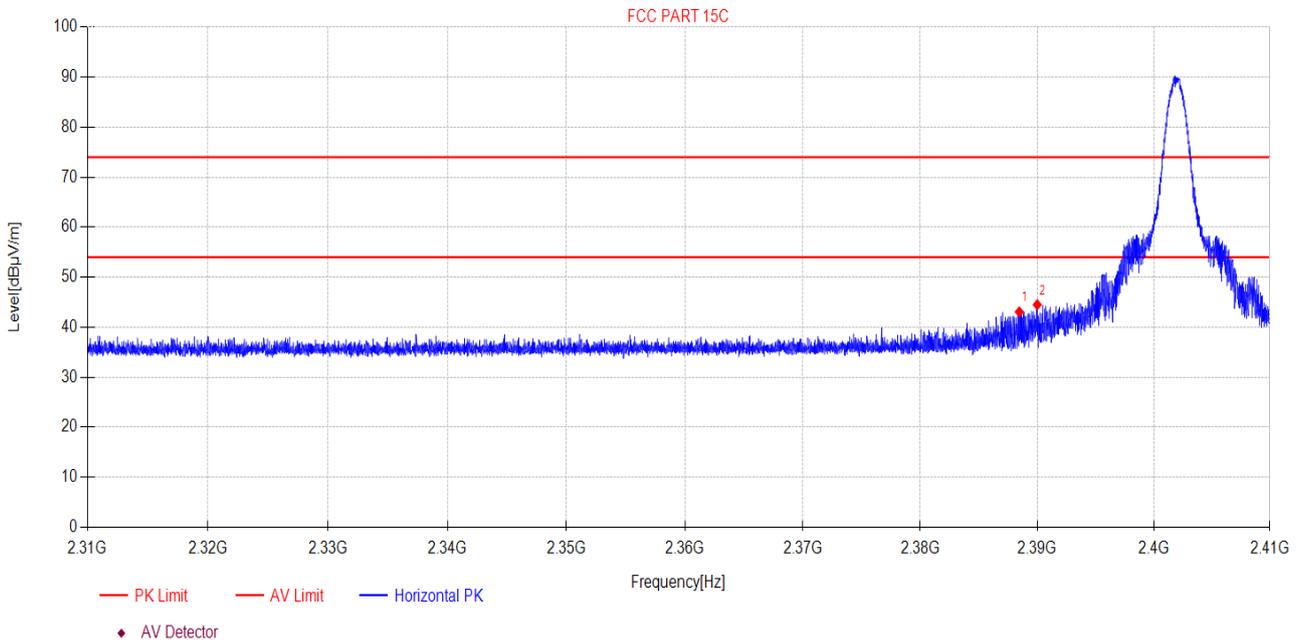
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.45	48.68	0.55	49.23	54.00	4.77	AV	Vertical
2	2483.88	45.12	0.56	45.68	54.00	8.32	AV	Vertical

Note:

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\41  
**Memo:** 3DH5 2402

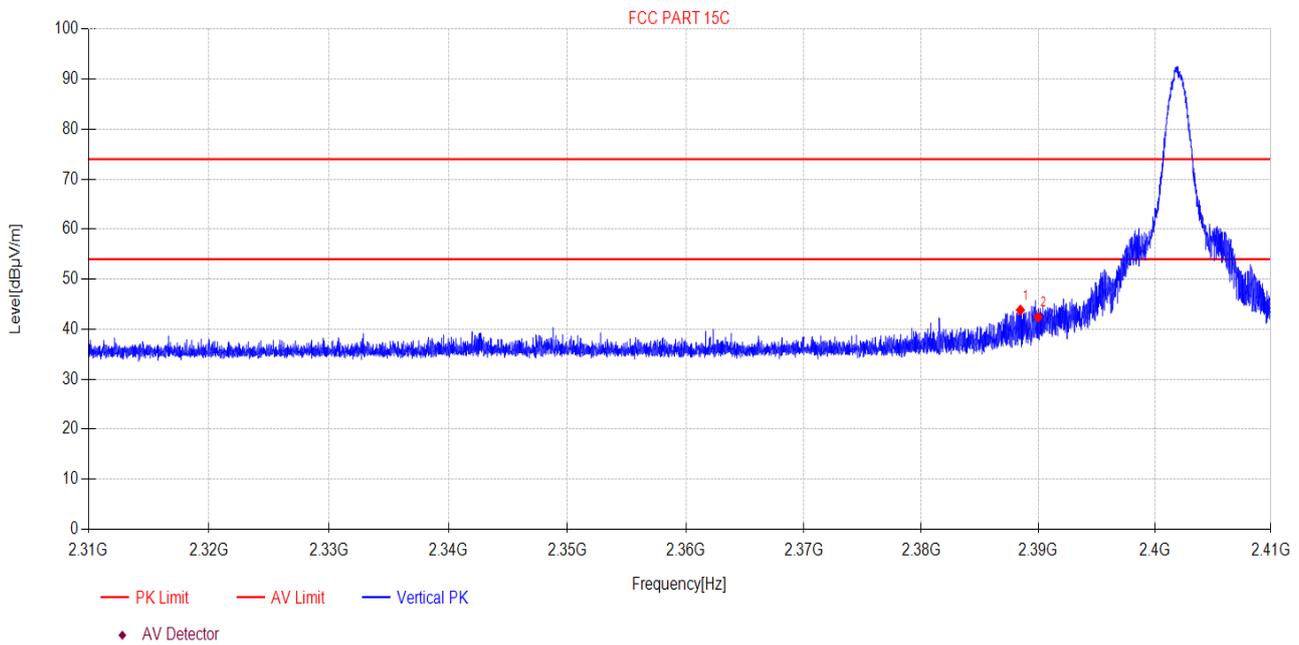


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2388.46	52.80	-9.72	43.08	74.00	30.92	PK	Horizontal
2	2390.00	54.23	-9.72	44.51	74.00	29.49	PK	Horizontal

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\42  
**Memo:** 3DH5 2402

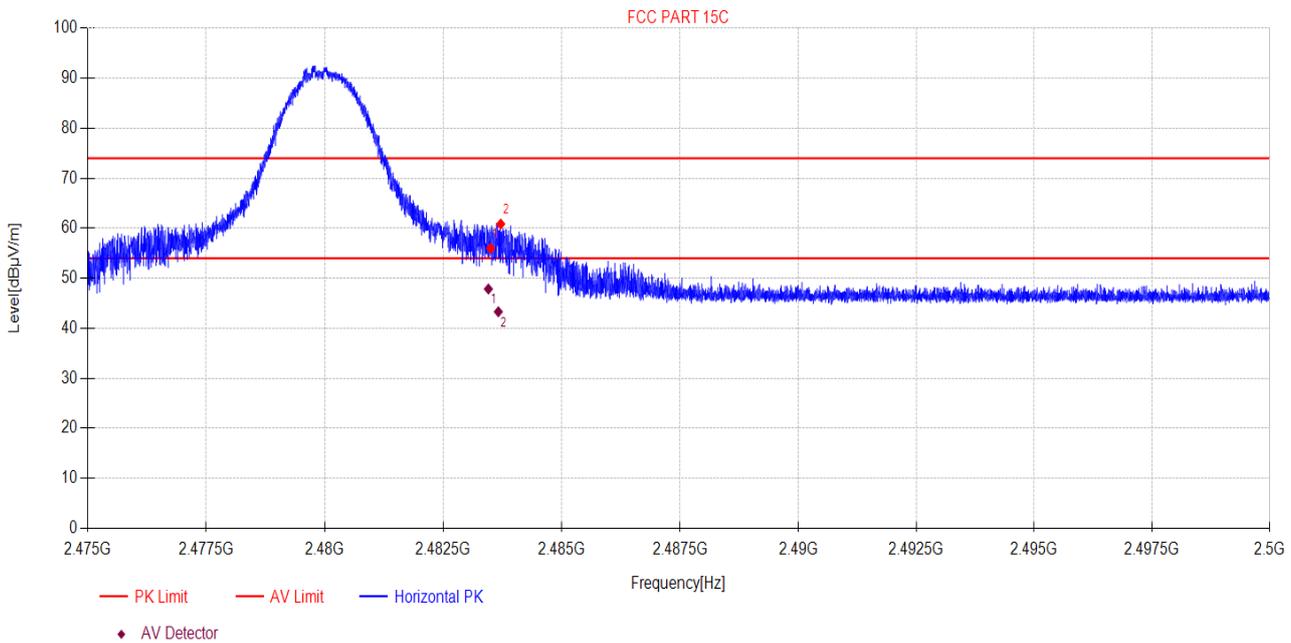


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2388.47	53.55	-9.72	43.83	74.00	30.17	PK	Vertical
2	2390.00	52.12	-9.72	42.40	74.00	31.60	PK	Vertical

**Note:**  
 1. Level = Reading + Factor.  
 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:** 2022-11-04 **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\47  
**Memo:** 3DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	55.43	0.54	55.97	74.00	18.03	PK	Horizontal
2	2483.71	60.30	0.54	60.84	74.00	13.16	PK	Horizontal

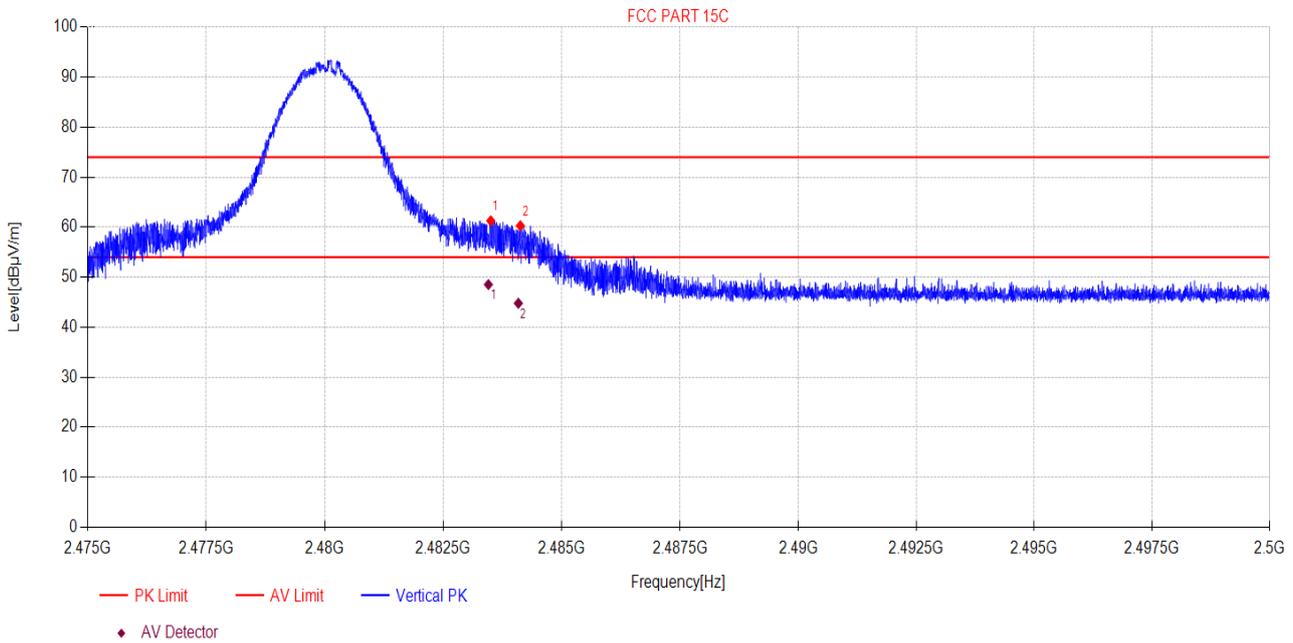
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.45	47.31	0.55	47.86	54.00	6.14	AV	Horizontal
2	2483.66	42.75	0.55	43.30	54.00	10.70	AV	Horizontal

Note:

1. Level = Reading + Factor.
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:** 2022-11-04      **Tested By:** James Gan  
**EUT:** BLUETOOTH HEADSET      **Model Number:** TOUR PRO 2  
**Test Mode:** Tx mode      **Power Supply:** Battery  
**Condition:** Temp:22.2°C;Humi:56.7%;Press:100.3kPa      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\48  
**Memo:** 3DH5 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	60.73	0.54	61.27	74.00	12.73	PK	Vertical
2	2484.13	59.73	0.55	60.28	74.00	13.72	PK	Vertical

Final Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.45	47.97	0.55	48.52	54.00	5.48	AV	Vertical
2	2484.08	44.23	0.56	44.79	54.00	9.21	AV	Vertical

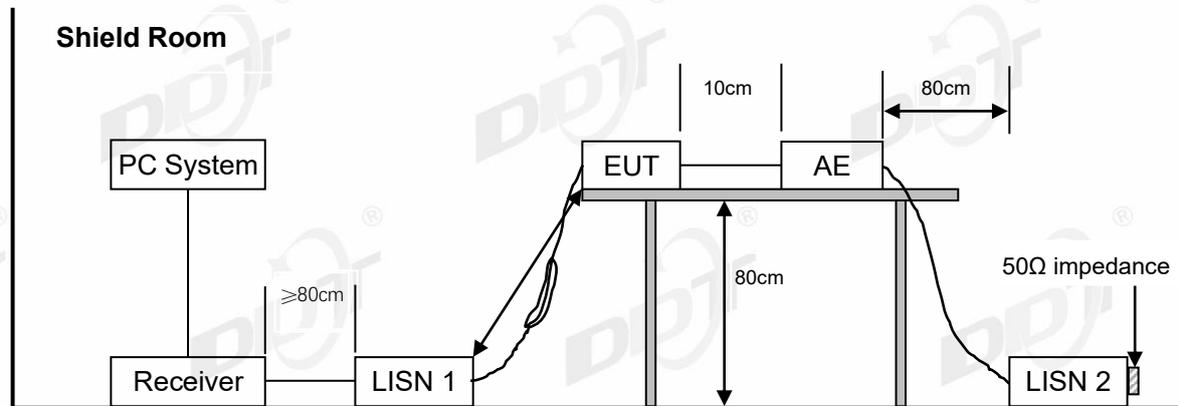
Note:

1. Level = Reading + Factor.
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.



## 13. Power Line Conducted Emission

### 13.1. Block diagram of test setup



### 13.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB( $\mu$ V)	Average Level dB( $\mu$ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

### 13.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

#### 13.4. Test result

**Pass. (See below detailed test result)**

Note1: All emissions not reported below are too low against the prescribed limits.

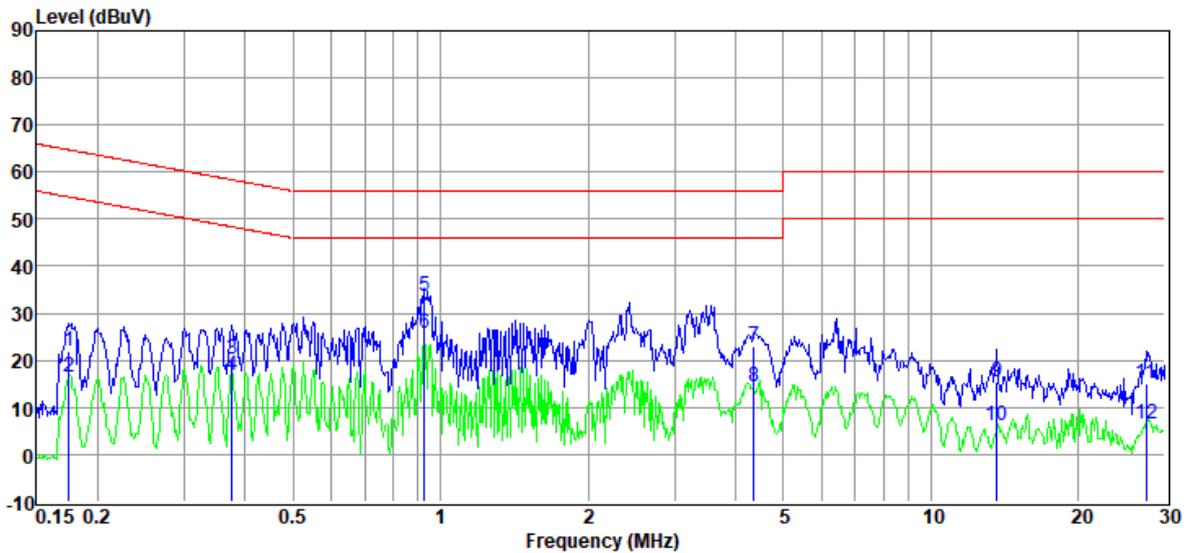
Note2: "----" means Peak detection; "----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room D:\2022 CE report date\Q22092806-2E TOUR PRO 2\FCC.EM6  
**Test Date** : 2022-11-08 **Tested By** : James Gan  
**EUT** : BLUETOOTH HEADSET **Model Number** : TOUR PRO 2  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : TEMP:22.3°C, RH:53.8%, BP:100.3KPa **LISN** : 2021 1# ENV216/LINE  
**Memo** :

Data: 2



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.17	2.36	9.71	0.01	9.92	22.00	64.72	-42.72	QP	LINE
2	0.17	-3.34	9.71	0.01	9.92	16.30	54.72	-38.42	Average	LINE
3	0.38	0.50	9.66	0.02	9.91	20.09	58.39	-38.30	QP	LINE
4	0.38	-2.77	9.66	0.02	9.91	16.82	48.39	-31.57	Average	LINE
5	0.93	14.18	9.58	0.03	9.89	33.68	56.00	-22.32	QP	LINE
6	0.93	6.21	9.58	0.03	9.89	25.71	46.00	-20.29	Average	LINE
7	4.36	3.36	9.58	0.06	9.92	22.92	56.00	-33.08	QP	LINE
8	4.36	-5.21	9.58	0.06	9.92	14.35	46.00	-31.65	Average	LINE
9	13.62	-4.38	9.73	0.14	9.93	15.42	60.00	-44.58	QP	LINE
10	13.62	-13.48	9.73	0.14	9.93	6.32	50.00	-43.68	Average	LINE
11	27.42	-4.94	9.68	0.20	9.99	14.93	60.00	-45.07	QP	LINE
12	27.42	-13.32	9.68	0.20	9.99	6.55	50.00	-43.45	Average	LINE

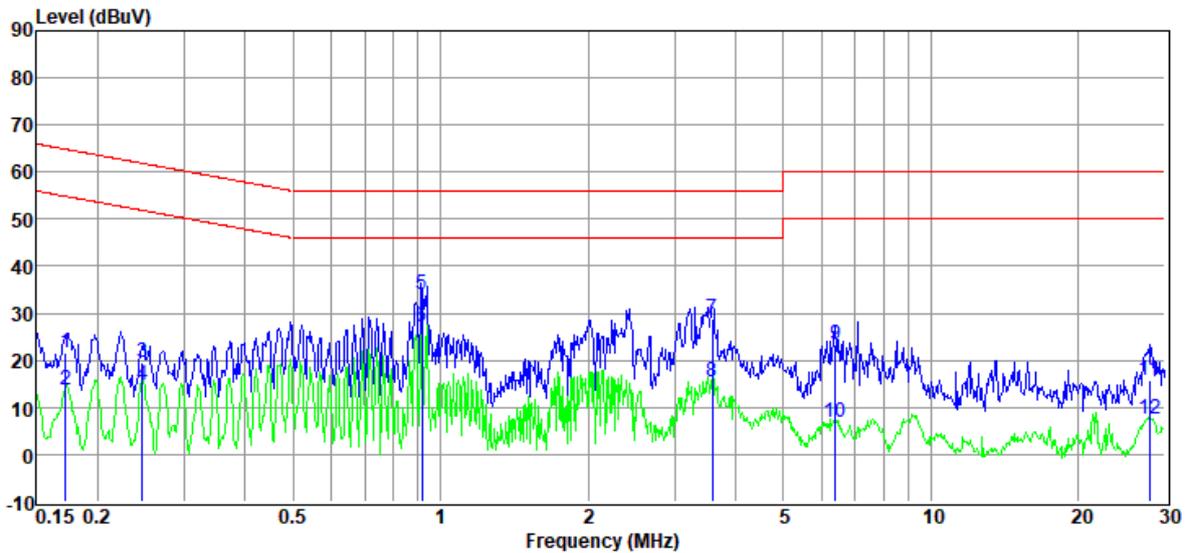
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room D:\2022 CE report date\Q22092806-2E TOUR PRO 2\FCC.EM6  
**Test Date** : 2022-11-08 **Tested By** : James Gan  
**EUT** : BLUETOOTH HEADSET **Model Number** : TOUR PRO 2  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : TEMP:22.3°C, RH:53.8%, BP:100.3KPa **LISN** : 2021 1# ENV216/NEUTRAL  
**Memo** :

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.17	1.90	9.80	0.01	9.92	21.63	64.86	-43.23	QP	NEUTRAL
2	0.17	-5.91	9.80	0.01	9.92	13.82	54.86	-41.04	Average	NEUTRAL
3	0.25	-0.06	9.73	0.02	9.92	19.61	61.86	-42.25	QP	NEUTRAL
4	0.25	-4.80	9.73	0.02	9.92	14.87	51.86	-36.99	Average	NEUTRAL
5	0.92	14.32	9.72	0.03	9.89	33.96	56.00	-22.04	QP	NEUTRAL
6	0.92	7.55	9.72	0.03	9.89	27.19	46.00	-18.81	Average	NEUTRAL
7	3.58	9.05	9.77	0.05	9.92	28.79	56.00	-27.21	QP	NEUTRAL
8	3.58	-4.18	9.77	0.05	9.92	15.56	46.00	-30.44	Average	NEUTRAL
9	6.39	3.55	9.63	0.08	9.94	23.20	60.00	-36.80	QP	NEUTRAL
10	6.39	-12.74	9.63	0.08	9.94	6.91	50.00	-43.09	Average	NEUTRAL
11	27.86	-4.20	9.88	0.20	9.99	15.87	60.00	-44.13	QP	NEUTRAL
12	27.86	-12.49	9.88	0.20	9.99	7.58	50.00	-42.42	Average	NEUTRAL

**Note:**

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

## 14. Antenna Requirements

### 14.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

### 14.2. Result

The product is that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the left side transmit antenna is -0.33 dBi and right side is -0.65 dBi.

**END OF REPORT**