

Certification Test Report

FCC ID: 2AJPY-BASGY00

FCC Rule Part: 15.247

ACS Report Number: 16-3077.W03.1A

**Manufacturer: Smart Pet Technologies, LLC.
Model: SPT001B**

Test Begin Date: December 06, 2016

Test End Date: December 08, 2016

Report Issue Date: December 28, 2016



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code AT-1921

This report must not be used by the client to claim product certification, approval, or endorsement by ANAB, ANSI, or any agency of the Federal Government.

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This report contains 22 pages

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1 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Certification.

1.2 Product Description

The SPT001B base station unit (FCC ID: 2AJPY-BASGY00) is part of the AKC's LINK system that provides location and activity monitoring for dogs. It also acts as the battery charging station for the dog worn portion.

The EUT contains the following radio:

BLE Chip set Model: BCM20735 manufactured by Cypress Semiconductor

Technical Information:

Detail	Description
Frequency Range	2402 to 2480 MHz
Number of Channels	3 advertising and 37 data
Modulation Format	GFSK (F1D)
Data Rates	To 1 Mbps
Number of Inputs/Outputs	1 RF output to an integral antenna
Operating Voltage	3.7 Vdc
Antenna Type / Gain	Monopole Flex, 0 dBi

Manufacturer Information:
Smart Pet Technologies, LLC.
1 Landmark Square
Stamford, Connecticut 06901

EUT Serial Numbers: ACS 1

Test Sample Condition: The test samples were provided in good working order with no visible defects.

1.3 Test Methodology and Considerations

For radiated emissions the device was placed in its as used "normal" orientation.

The manufacturer provided test software to exercise the EUT.

For RF Conducted measurements at the antenna port, the EUT was modified with a temporary 50 ohm connector and coupled to the measurement equipment with suitable attenuation.

The EUT was programmed for a continuously modulated signal with random data on each channel investigated.

2 TEST FACILITIES**2.1 Location**

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions
2320 Presidential Drive, Suite 101
Durham, NC 27703
Phone: (919) 381-4235

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by ANSI-ASQ National Accreditation Board under their ANAB program and has been issued certificate number AT-1921 in recognition of this accreditation. Unless otherwise specified, all test methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

2.3 Radiated Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The Semi-Anechoic Chamber Test Site consists of a 18' x 28' x 18' shielded enclosure. The chamber is lined with Samwha Electronics Co. LTD Ferrite Absorber, model number SFA300 (HSN-1). The ferrite tile is 10cm x 10 cm and weighs approximately 1.4lbs. These tiles are mounted on steel panels and installed directly on the inner walls of the chamber. On top of the ferrite tiles is DMAS HT-45 (Dutch Microwave Absorber Solutions) hybrid absorber on all walls except the wall behind the antenna mast which has a shorter DMAS HT-25 absorber.

The turntable is 1.50m in diameter and is located 150cm from the back wall of the chamber. The chamber is grounded via 1 - 8' copper ground rod, installed at the center of the back wall, it is bound to the ground plane using short #6 copper wire. The turntable is an aluminum, flush mounted table installed in an all steel frame. The table is remotely operated from inside the control room located 25' from the turntable. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane.

Behind the turntable is a 2' x 6' x 1.5' deep shielded pit used for support equipment if necessary. The pit is equipped with 2 - 4" PVC chase from the turntable to the pit that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit.

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3-1 below:

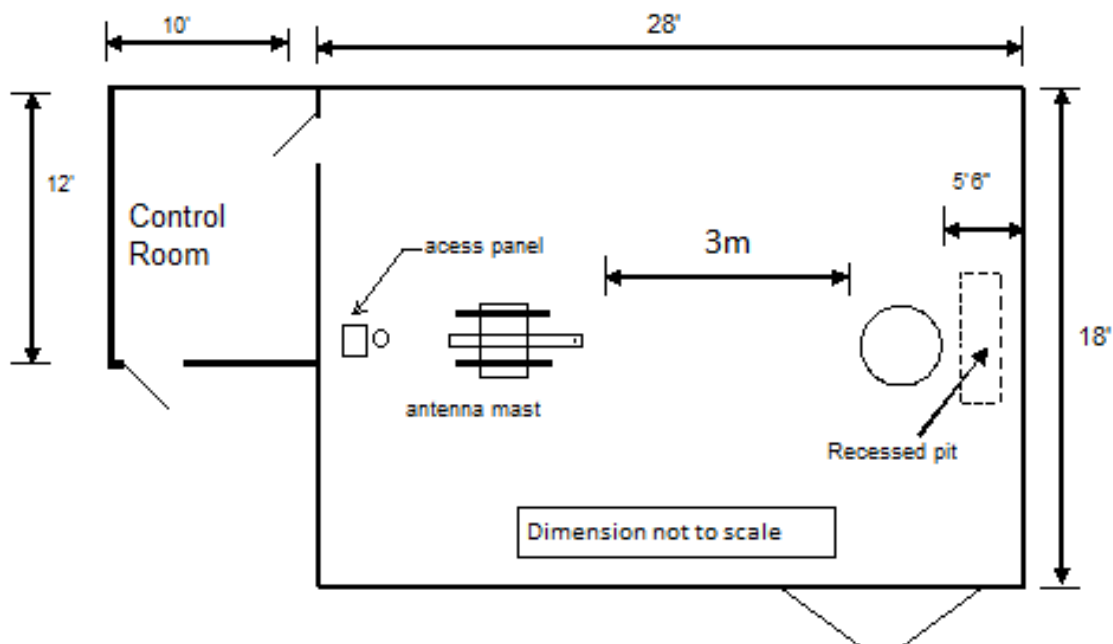


Figure 2.3-1: Semi-Anechoic Chamber Test Site

2.4 Conducted Emissions Test Site Description

The AC mains conducted EMI site is located in the main EMC lab. It consists of an 8' x 10' sheet galvanized steel horizontal ground reference plane (GRP) bonded every 6" to an 8' X 8' aluminum vertical ground plane.

A diagram of the room is shown below in figure 2.4-1:

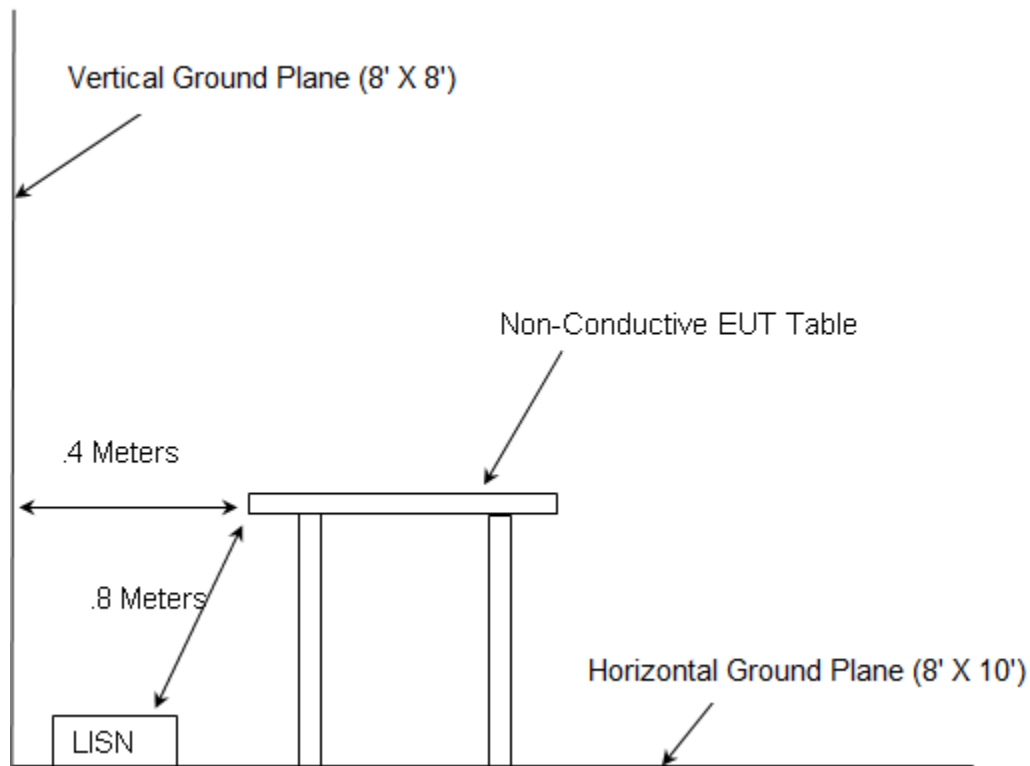


Figure 2.4-1: AC Mains Conducted EMI Site

3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2015
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2015
- ❖ FCC KDB 558074 D01 DTS Meas Guidance v03r05 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247, April 8, 2016

4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

Table 4-1: Test Equipment

Asset ID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
277	EMCO	93146	Antennas	9904-5199	9/12/2016	9/12/2018
626	EMCO	3110B	Antennas	9411-1945	2/29/2016	2/28/2017
3002	Rohde & Schwarz	ESU40	Receiver	100346	1/8/2016	1/8/2017
3006	Rohde & Schwarz	TS-PR18	Amplifiers	122006	6/29/2015	12/29/2016
3007	Rohde & Schwarz	TS-PR26	Amplifiers	100051	6/29/2015	12/29/2016
3011	Rohde & Schwarz	ENV216	LISN	3011	7/10/2015	1/10/2017
3012	Rohde & Schwarz	EMC32-EB	Software	100731	8/2/2016	2/2/2017
3016	Fei Teng Wireless Technology	HA-07M18G-NF	Antennas	2013120203	1/26/2016	1/26/2018
3027	Micro-Tronics	BRM50702	Filter	175	12/21/2015	12/21/2016
3031	Hasco, Inc.	HLL335-S1-S1-96	Cables	3074	12/30/2015	12/30/2016
3033	Hasco, Inc.	HLL142-S1-S1-36	Cables	1435	1/7/2016	1/7/2017
3038	Florida RF Labs	NMSE-290AW-60.0-NMSE	Cable Set	1448	12/22/2015	12/22/2016
3039	Florida RF Labs	NMSE-290AW-396.0-NMSE	Cable Set	1447	12/22/2015	12/22/2016
3042	Aeroflex Inmet	18N10W-10	Cable Set	1444	1/8/2016	1/8/2017
3051	Mountain View Cable	BMS-RG400-264.0-BMS	Cables	3051	12/30/2015	12/30/2016
3055	Rohde & Schwarz	3005	Cables	3055	12/30/2015	12/30/2016
3057	Advanced Technical Materials	42-441-6/BR	Antennas	R110602	NCR	NCR
3085	Rohde & Schwarz	FSW43	Spectrum Analyzer	103997	8/9/2016	8/9/2017

NCR = No Calibration Required

Firmware Version: ESU40 is 4.73 SP1

Software Version: EMC32-B is 9.15

5 SUPPORT EQUIPMENT

Table 5-1: EUT Description

Item #	Type Device	Manufacturer or Responsible Party	Model/Part #	Serial #
1	EUT	Smart Pet Tech.	SPT001B	ACS # 1
2	Power Supply	Saber	S005BPU0500100	N/A

Table 5-2: Cable Description – Radiated Emissions

Cable #	Cable Type	Length	Shield	Termination
A	EUT to Power Supply (USB)	1.0m	No	Power Supply

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

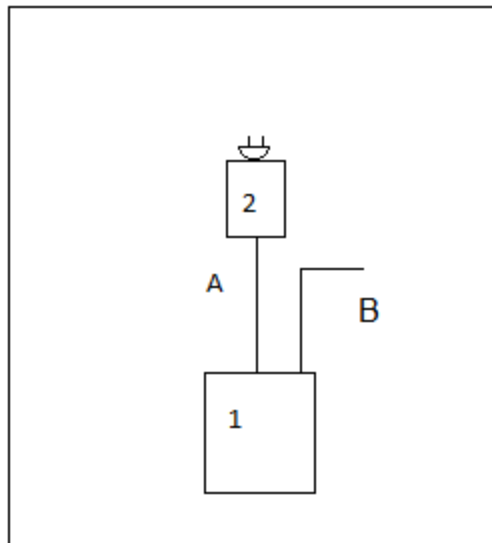


Figure 6-1: Test Setup Block Diagram

7 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Antenna Requirement – FCC 15.203

The EUT utilizes a monopole flex antenna. The antenna is integral to the device and cannot be removed or replaced by the end user. The peak gain of the antenna is 0 dBi.

7.2 Power Line Conducted Emissions – FCC 15.207

7.2.1 Measurement Procedure

ANSI C63.10 section 6 was the guiding document for this evaluation. Conducted emissions were performed from 150 kHz to 30 MHz with the spectrum analyzer's resolution bandwidth set to 9 kHz and the video bandwidth set to 30 kHz. The calculation for the conducted emissions is as follows:

Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss

Margin = Applicable Limit - Corrected Reading

7.2.2 Measurement Results

Table 7.2.2-1: Conducted EMI Results – Line 1

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.236000	---	12.22	52.00	39.78	2000.0	9.000	L1	OFF	9.6
0.236000	18.02	---	62.04	44.02	2000.0	9.000	L1	OFF	9.6
0.324000	---	11.40	49.38	37.98	2000.0	9.000	L1	OFF	9.6
0.324000	17.23	---	59.42	42.19	2000.0	9.000	L1	OFF	9.6
0.480000	---	9.98	46.31	36.33	2000.0	9.000	L1	OFF	9.6
0.480000	15.78	---	56.31	40.53	2000.0	9.000	L1	OFF	9.6
0.688000	---	7.83	46.00	38.17	2000.0	9.000	L1	OFF	9.6
0.688000	13.62	---	56.00	42.38	2000.0	9.000	L1	OFF	9.6
1.316000	---	0.83	46.00	45.17	2000.0	9.000	L1	OFF	9.6
1.316000	6.66	---	56.00	49.34	2000.0	9.000	L1	OFF	9.6
3.260000	---	-2.37	46.00	48.37	2000.0	9.000	L1	OFF	9.7
3.260000	3.40	---	56.00	52.60	2000.0	9.000	L1	OFF	9.7
4.080000	---	-2.73	46.00	48.73	2000.0	9.000	L1	OFF	9.7
4.080000	2.97	---	56.00	53.03	2000.0	9.000	L1	OFF	9.7
7.630000	---	-2.51	50.00	52.51	2000.0	9.000	L1	OFF	9.9
7.630000	3.31	---	60.00	56.69	2000.0	9.000	L1	OFF	9.9
9.762000	---	-4.29	50.00	54.29	2000.0	9.000	L1	OFF	9.9
9.762000	1.47	---	60.00	58.53	2000.0	9.000	L1	OFF	9.9
23.702000	---	-4.49	50.00	54.49	2000.0	9.000	L1	OFF	10.0
23.702000	1.29	---	60.00	58.71	2000.0	9.000	L1	OFF	10.0

Table 7.2.2-2: Conducted EMI Results – Neutral

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.214000	---	12.56	52.84	40.28	2000.0	9.000	N	OFF	9.7
0.214000	18.40	---	62.88	44.48	2000.0	9.000	N	OFF	9.7
0.396000	---	10.74	47.79	37.05	2000.0	9.000	N	OFF	9.7
0.396000	16.47	---	57.81	41.34	2000.0	9.000	N	OFF	9.7
0.420000	---	10.62	47.33	36.71	2000.0	9.000	N	OFF	9.7
0.420000	16.36	---	57.35	40.99	2000.0	9.000	N	OFF	9.7
0.780000	---	6.99	46.00	39.01	2000.0	9.000	N	OFF	9.8
0.780000	12.74	---	56.00	43.26	2000.0	9.000	N	OFF	9.8
1.196000	---	2.12	46.00	43.88	2000.0	9.000	N	OFF	9.8
1.196000	7.94	---	56.00	48.06	2000.0	9.000	N	OFF	9.8
2.820000	---	-2.11	46.00	48.11	2000.0	9.000	N	OFF	9.9
2.820000	3.76	---	56.00	52.24	2000.0	9.000	N	OFF	9.9
4.352000	---	-2.54	46.00	48.54	2000.0	9.000	N	OFF	10.0
4.352000	3.29	---	56.00	52.71	2000.0	9.000	N	OFF	10.0
7.386000	---	-2.36	50.00	52.36	2000.0	9.000	N	OFF	10.1
7.386000	3.32	---	60.00	56.68	2000.0	9.000	N	OFF	10.1
23.934000	---	-3.86	50.00	53.86	2000.0	9.000	N	OFF	10.5
23.934000	1.89	---	60.00	58.11	2000.0	9.000	N	OFF	10.5
29.658000	---	-3.43	50.00	53.43	2000.0	9.000	N	OFF	10.7
29.658000	2.36	---	60.00	57.64	2000.0	9.000	N	OFF	10.7

7.3 6dB Bandwidth – FCC 15.247(a)(2)

7.3.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 100 kHz. The Video Bandwidth (VBW) was set to ≥ 3 times the RBW. The trace was set to max hold with a peak detector active. The marker-delta function of the spectrum analyzer was utilized to determine the 6 dB bandwidth of the emission.

7.3.2 Measurement Results

Table 7.3.2-1: 6dB Bandwidth

Frequency (MHz)	6dB Bandwidth (kHz)
2402	851.110
2440	852.510
2480	856.910

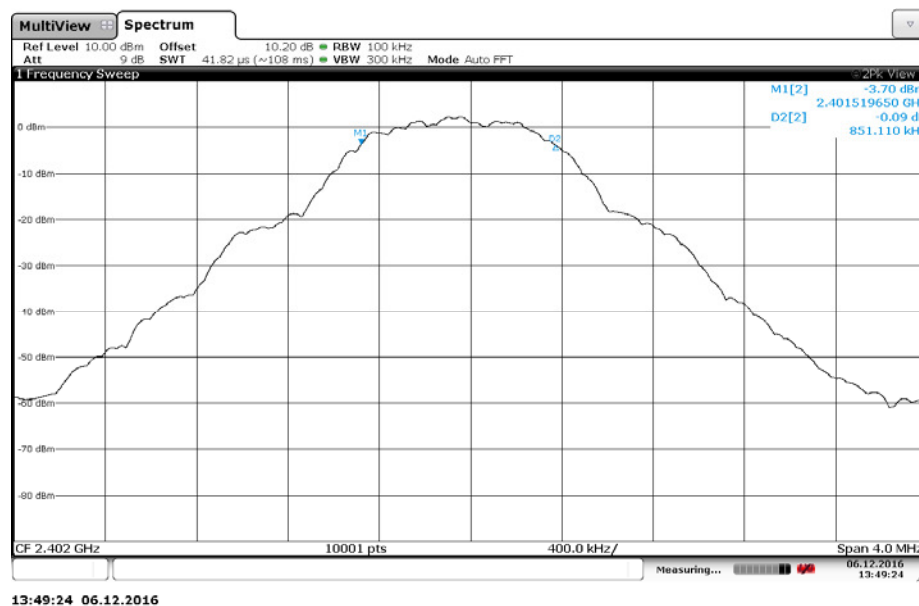


Figure 7.3.2-1: 6dB Bandwidth - LCH

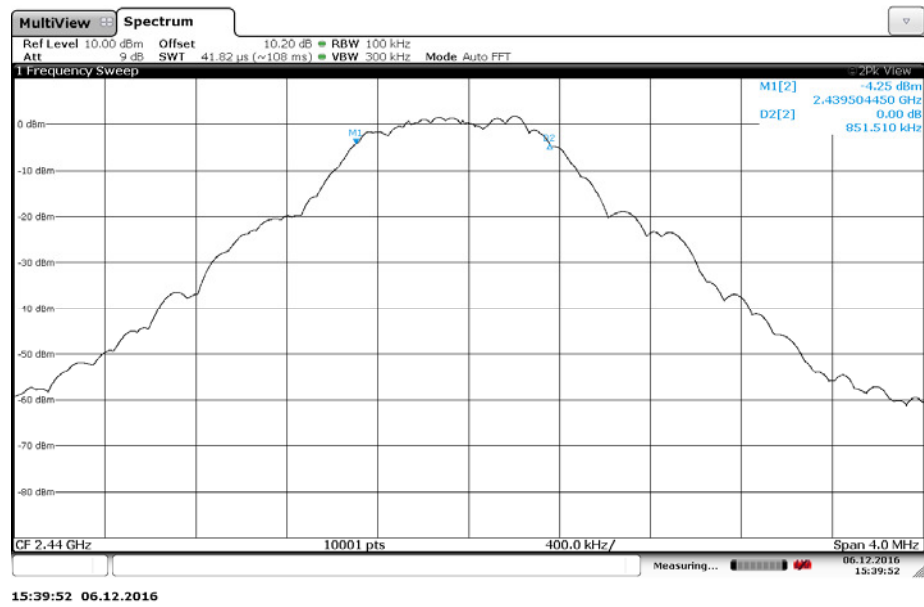


Figure 7.3.2-2: 6dB Bandwidth - MCH

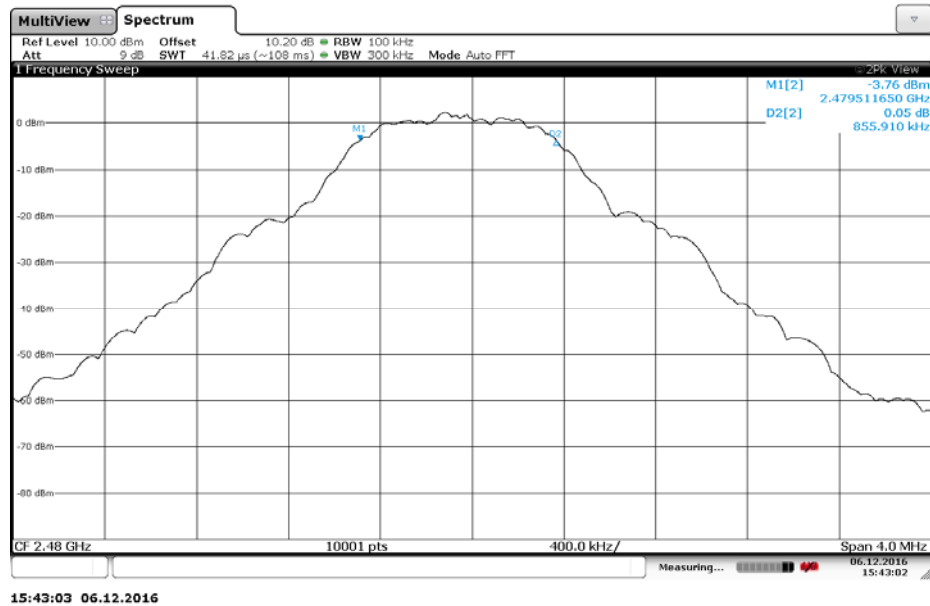


Figure 7.3.2-3: 6dB Bandwidth - HCH

7.4 Fundamental Emission Output Power – FCC 15.247(b)(3)

7.4.1 Measurement Procedure

The maximum peak conducted output power was measured in accordance with FCC KDB 558074 D01 DTS Measurement Guidance v03r05 utilizing the $RBW \geq DTS\ BW$ method. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer applying suitable attenuation.

7.4.2 Measurement Results

Table 7.4.2-1: Maximum Peak Conducted Output Power

Frequency (MHz)	Output Power (dBm)	Output Power (mW)
2402	4.45	2.79
2440	4.18	2.62
2480	4.27	2.67

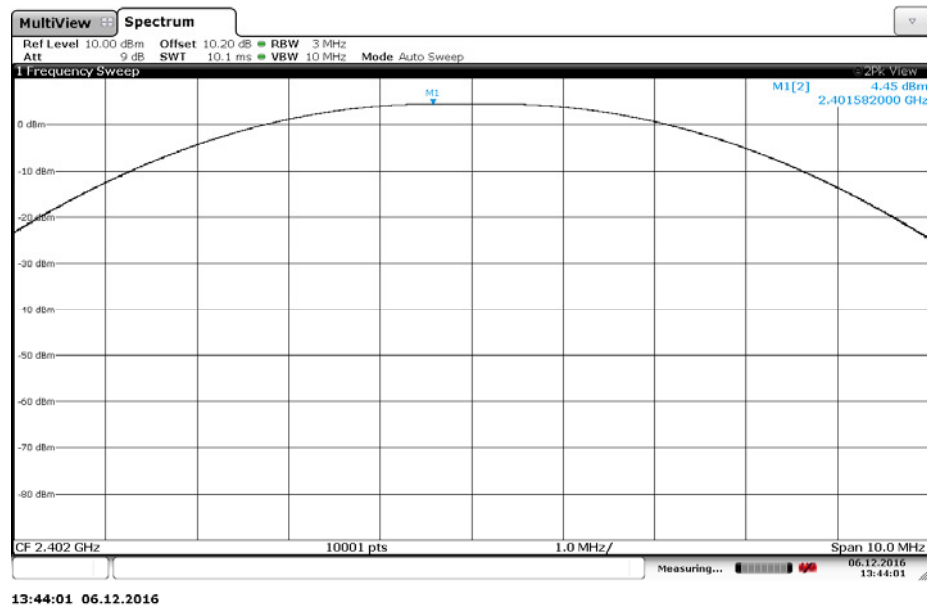


Figure 7.4.2-1: Power Output - LCH

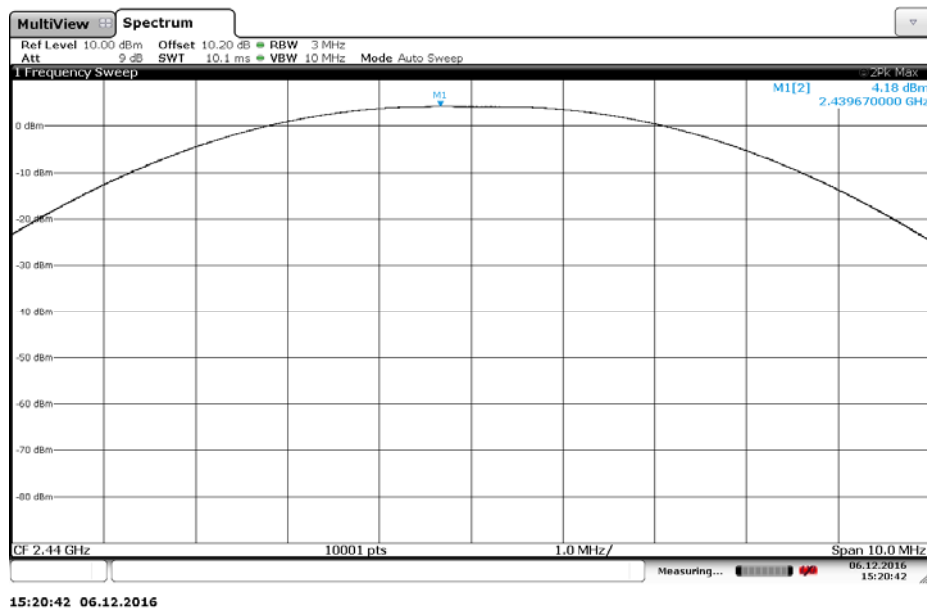


Figure 7.4.2-2: Power Output - MHC

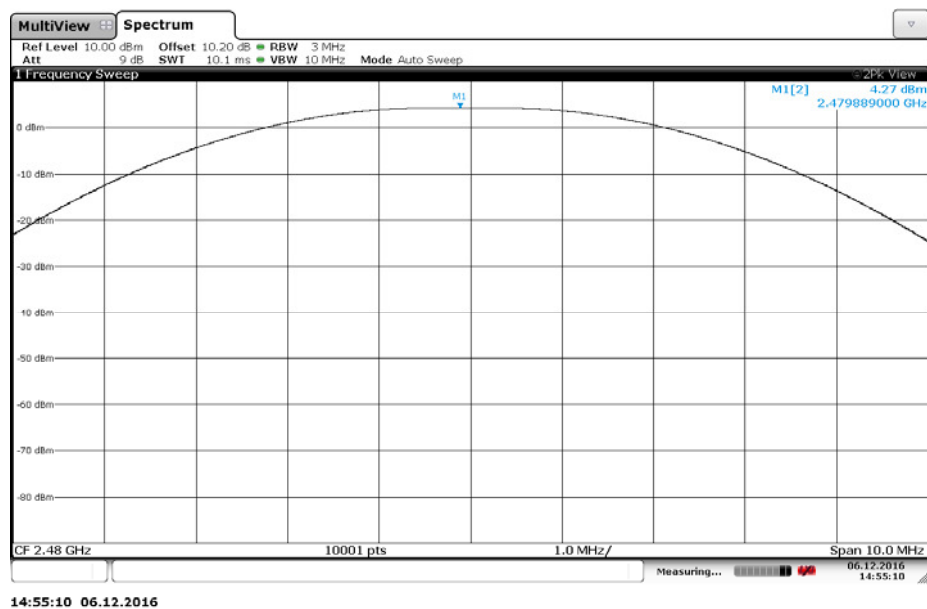


Figure 7.4.2-3: Power Output - HCH

7.5 Emission Levels – FCC 15.247(d), 15.205, 15.209

7.5.1 Emissions into Non-restricted Frequency Bands

7.5.1.1 Measurement Procedure

The unwanted emissions into non-restricted bands were measured conducted in accordance with FCC KDB 558074 D01 DTS Measurement Guidance v03r05. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer applying suitable attenuation. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 100 kHz. The Video Bandwidth (VBW) was set to ≥ 300 kHz. Span was set to 1.5 times the DTS bandwidth. The trace was set to max hold with a peak detector active. The resulting spectrum analyzer peak level was used to determine the reference level with respect to the 20 dBc limit. The spectrum span was then adjusted for the measurement of spurious emissions from 30MHz to 25GHz, 10 times the highest fundamental frequency.

Band-edge compliance was determined using the conducted marker-delta method in which the radio frequency power that is produced by the EUT is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

7.5.1.2 Measurement Results

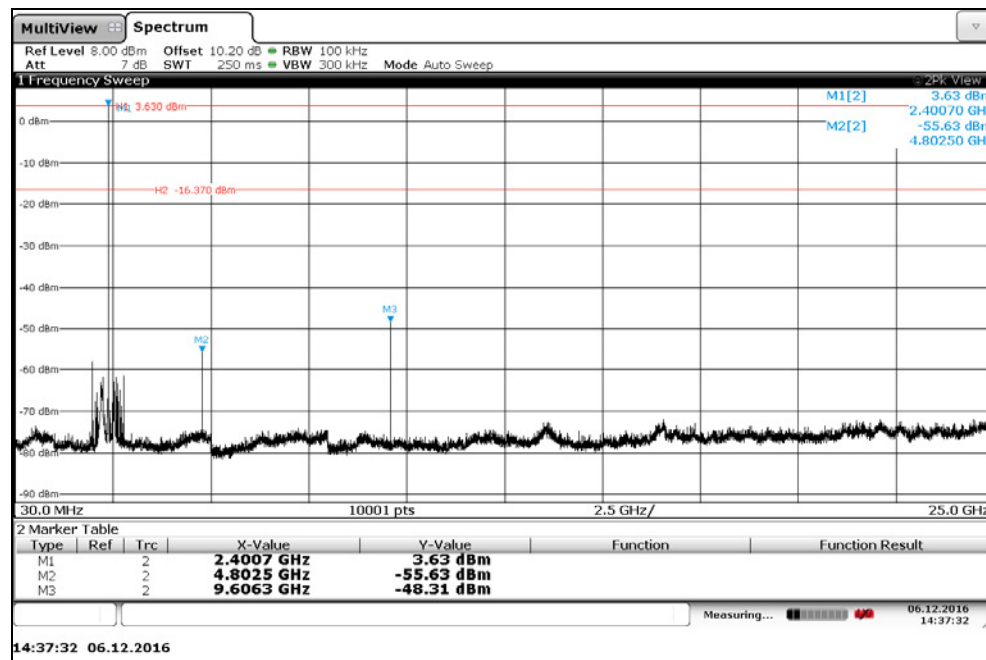


Figure 7.5.1.2-1: 30 MHz – 25 GHz – LCH

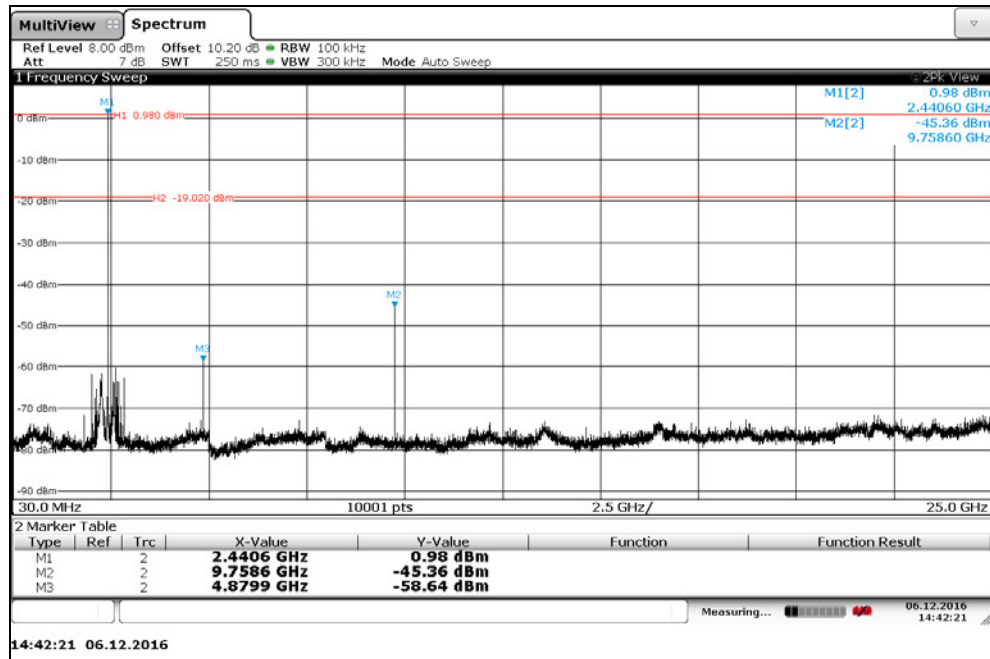


Figure 7.5.1.2-2: 30 MHz – 25 GHz – MCH

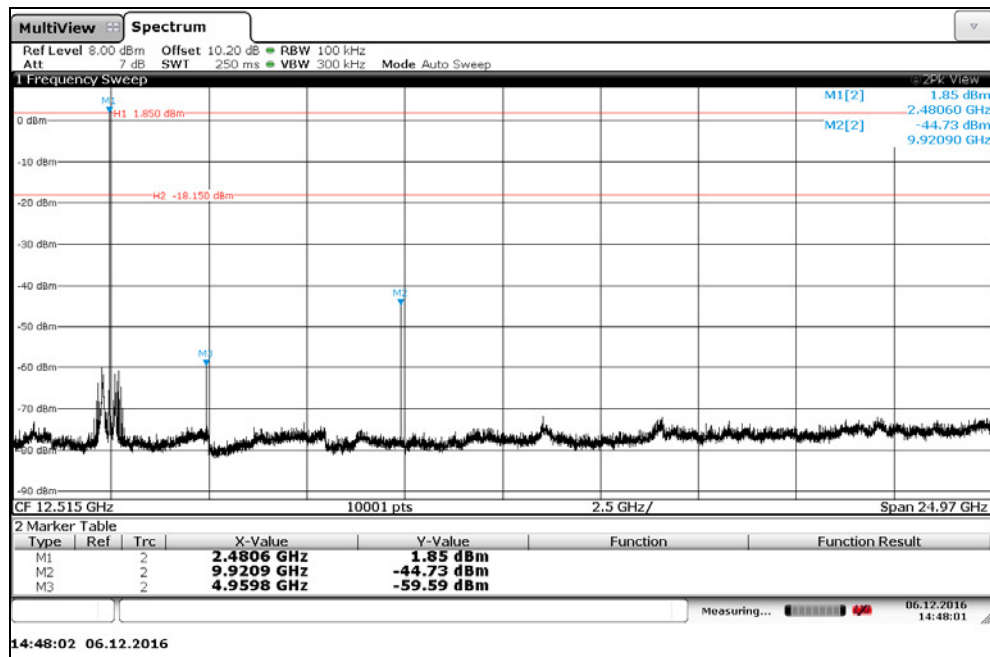


Figure 7.5.1.2-3: 30 MHz – 25 GHz – HCH

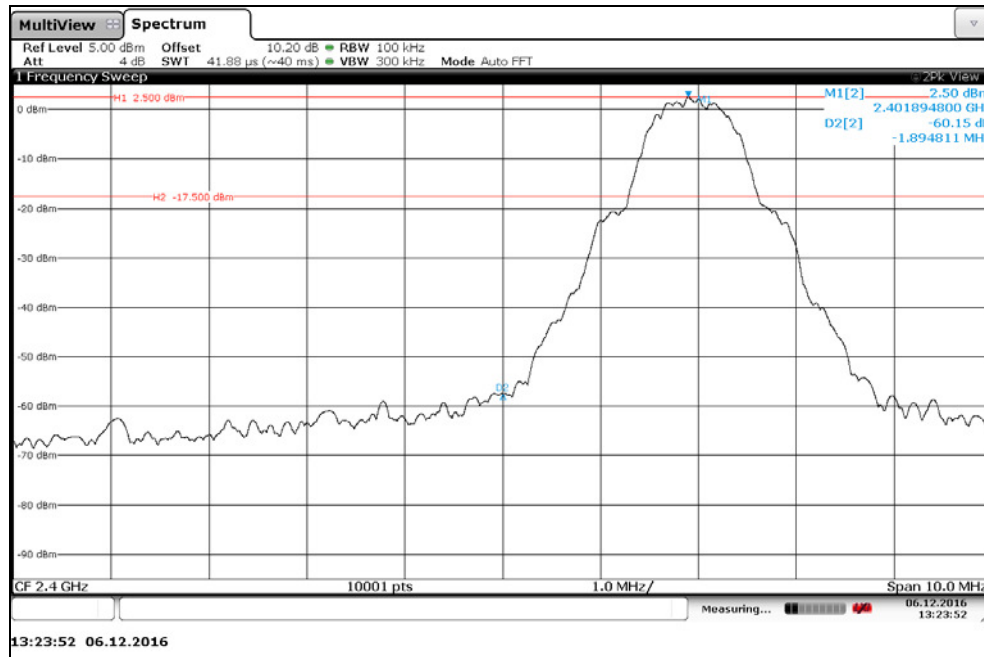


Figure 7.5.1.2-4: Lower Band-edge - LCH

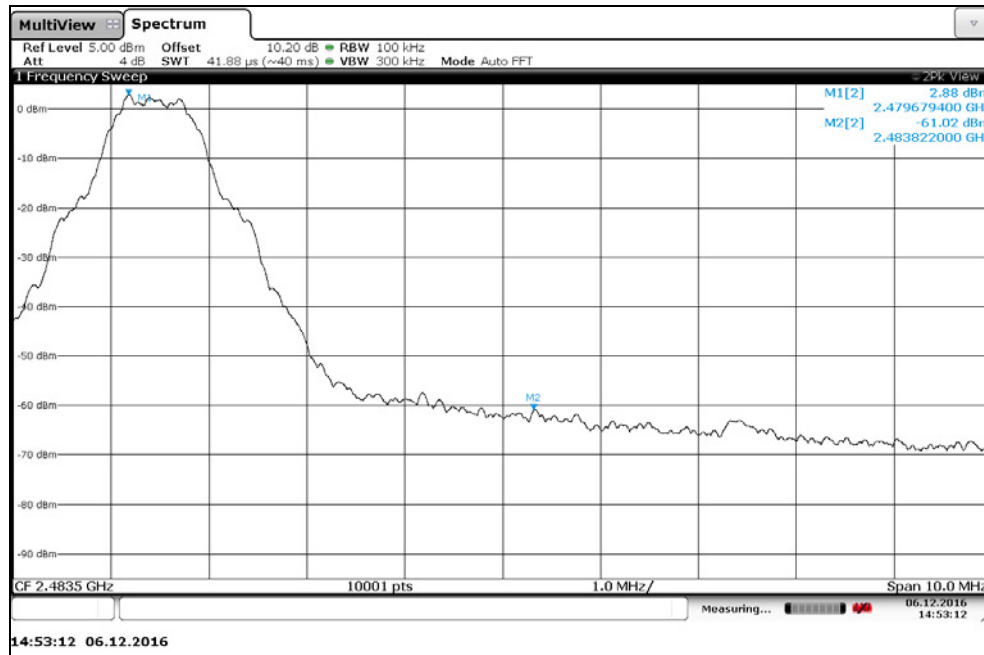


Figure 7.5.1.2-5: Upper Band-edge - HCH

7.5.2 Emissions into Restricted Frequency Bands

7.5.2.1 Measurement Procedure

The unwanted emissions into restricted bands were measured radiated over the frequency range of 30 MHz to 25GHz, 10 times the highest fundamental frequency.

For frequencies below 1000MHz, quasi-peak measurements were made using a RBW of 120 kHz and a VBW of 300 kHz. For frequencies above 1000MHz, peak and average measurements were made with RBW and VBW of 1 MHz and 3 MHz respectively.”

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz.

Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in section 15.209.

7.5.2.2 Duty Cycle Correction

There was no duty cycle correction factor required.

7.5.2.3 Measurement Results

Table 7.5.2.3-1: Radiated Spurious Emissions Tabulated Data

Frequency (MHz)	Measured Level (dBuV)		Antenna Polarity (H/V)	Turntable Position (o)	Antenna Height (cm)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	Pk	Qpk/Av					Pk	Qpk/Av	Pk	Qpk/Av	Pk	Qpk/Av
Low Channel												
4804	42.90	30.60	H	0	100	6.16	49.06	36.76	74.0	54.0	24.9	17.2
4804	42.80	30.50	V	218	115	6.16	48.96	36.66	74.0	54.0	25.0	17.3
Mid Channel												
4880	41.80	29.20	H	180	105	6.17	47.97	35.37	74.0	54.0	26.0	18.6
4880	43.20	31.60	V	220	100	6.17	49.37	37.77	74.0	54.0	24.6	16.2
7320	47.50	33.40	H	80	115	9.00	56.50	42.40	74.0	54.0	17.5	11.6
7320	46.30	32.30	V	110	100	9.00	55.30	41.30	74.0	54.0	18.7	12.7
High Power												
4960	40.90	28.00	H	224	115	6.19	47.09	34.19	74.0	54.0	26.9	19.8
4960	42.60	30.20	V	15	100	6.19	48.79	36.39	74.0	54.0	25.2	17.6
7440	45.80	31.70	H	80	125	9.48	55.28	41.18	74.0	54.0	18.7	12.8
7440	44.40	30.80	V	105	105	9.48	53.88	40.28	74.0	54.0	20.1	13.7
2483.5	51.30	35.90	H	25	135	-1.57	49.73	34.33	74.0	54.0	24.3	19.7
2483.5	51.80	36.70	V	246	100	-1.57	50.23	35.13	74.0	54.0	23.8	18.9

Note:

No significant emissions were noted in the restricted band 2310 MHz to 2390 MHz.

Emissions above 7440MHz were attenuated below the noise floor of the instrumentation.

7.5.2.4 Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF_T	=	Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
R_U	=	Uncorrected Reading
R_C	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
DC	=	Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: $42.90 + 6.16 = 49.06\text{dBuV/m}$

Margin: $74\text{dBuV/m} - 49.06\text{dBuV/m} = 24.9\text{dB}$

Example Calculation: Average

Corrected Level: $30.60 + 6.16 - 0 = 36.76\text{dBuV}$

Margin: $54\text{dBuV} - 36.76\text{dBuV} = 17.2\text{dB}$

7.6 Maximum Power Spectral Density in the Fundamental Emission – FCC 15.247(e)

7.6.1 Measurement Procedure

The power spectral density was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05 utilizing the PKPSD (peak PSD) method. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer applying suitable attenuation. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 3 kHz. The Video Bandwidth (VBW) was set to 10 kHz. Span was set to 1.5 times the DTS bandwidth. The trace was set to max hold with a peak detector active.

7.6.2 Measurement Results

Table 7.6.2-1: Peak Power Spectral Density

Frequency (MHz)	PSD Level (dBm)
2402	-10.02
2440	-10.45
2480	-10.25

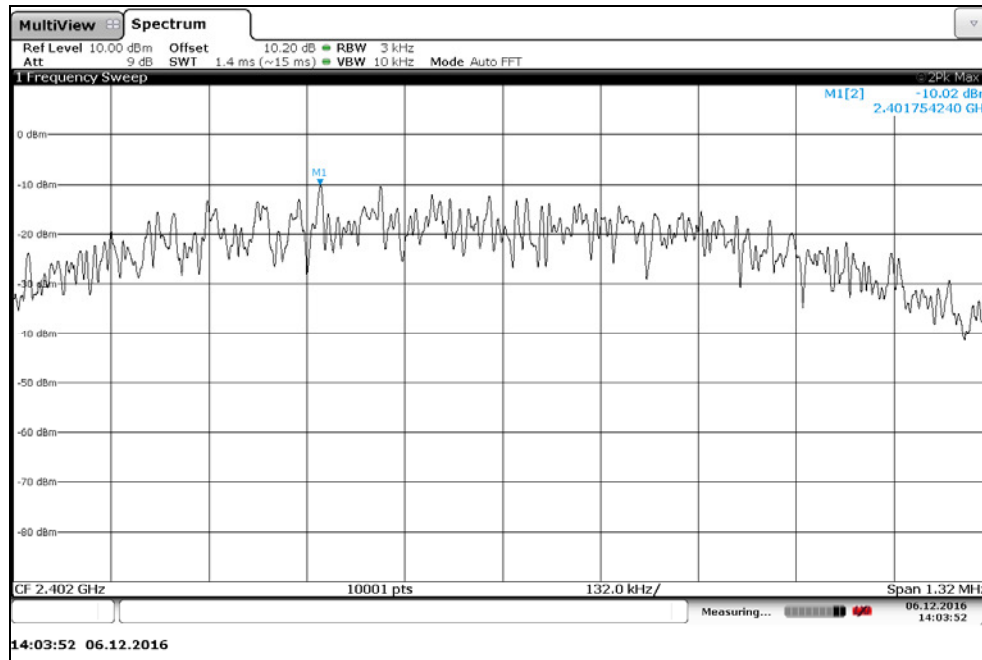


Figure 7.6.2-1: PSD Plot –LCH

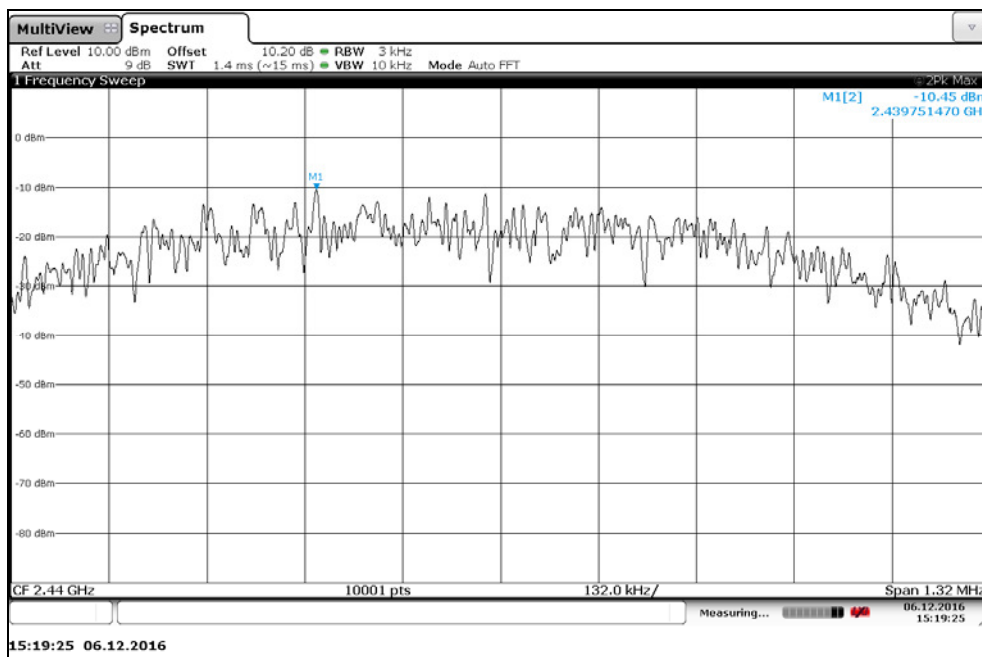


Figure 7.6.2-2: PSD Plot – MCH

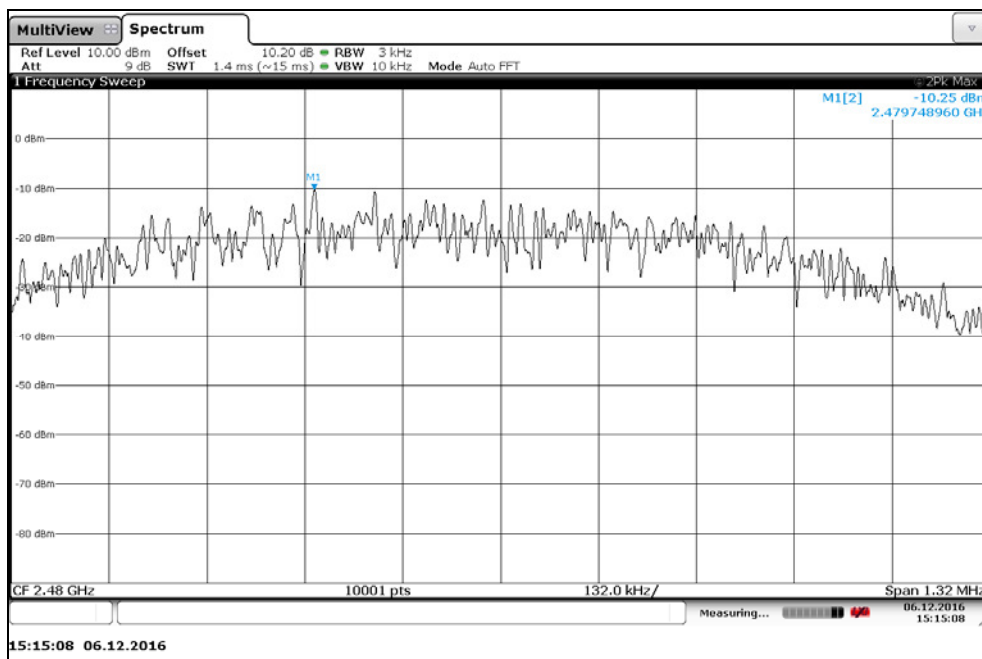


Figure 7.6.2-3: PSD Plot – HCH

8 CONCLUSION

In the opinion of ACS, Inc. the SPT001B, manufactured by Smart Pet Technologies, LLC meets the requirements of FCC Part 15 subpart C.

END REPORT