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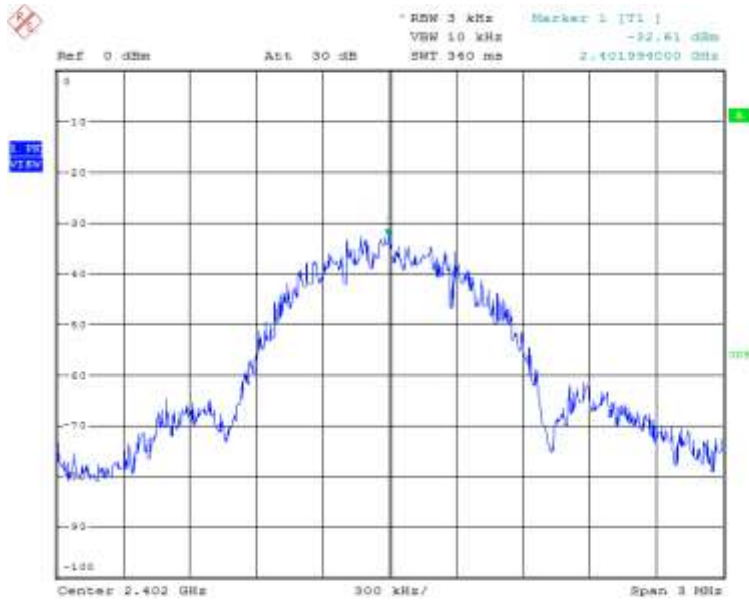
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Appendix B.1: Measurement Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Cal Until
Disturbance Voltage				
EMI Test Receiver	Rohde&Schwarz	ESCI 3	100314	2021-03-15
Two-Line V-Network	Rohde&Schwarz	ENV216	100195	2021-05-25
Radiated disturbances (9KHz – 30 MHz)				
Loop Antenna	Rohde &Schwarz	HFH2-Z2	100111	2021-03-24
EMI Test Receiver	Rohde&Schwarz	ESCI 3	100216	2021-03-14
Radiated disturbances (30 MHz – 1000 MHz)				
EMI Test Receiver	Rohde&Schwarz	ESCI 3	100216	2021-03-14
Trilog-Broadband Antenna	Schwarzbeckmess-elektronik	VULB9168	684	2021-08-21
Radiated disturbances (1GHz – 18 GHz)				
Double-Ridged Horn Antenna	Rohde & Schwarz	HF907	100377	2021-10-20
Pre-Amplifier(1-18GHz)	MITEQ	AFS44-00101800-25-10P-44	1934457	2021-05-28
Band Reject Filter	Micro-Tronics	BRM50702	023	2020-07-04
Highpass Filter	Micro-Tronics	HPM50115-03	001	2021-03-19
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2020-08-16
Radiated disturbances (18GHz – 26 GHz)				
Horn Antenna	EMCO	3160-09	21642	2022-01-19
Pre-Amplifier(18-26GHz)	MITEQ	AFS33-18002650-30-8P-44	1108282	2020-07-30
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2021-08-16
EMI Test Receiver	Rohde & Schwarz	ESU 26	100209	2021-03-16

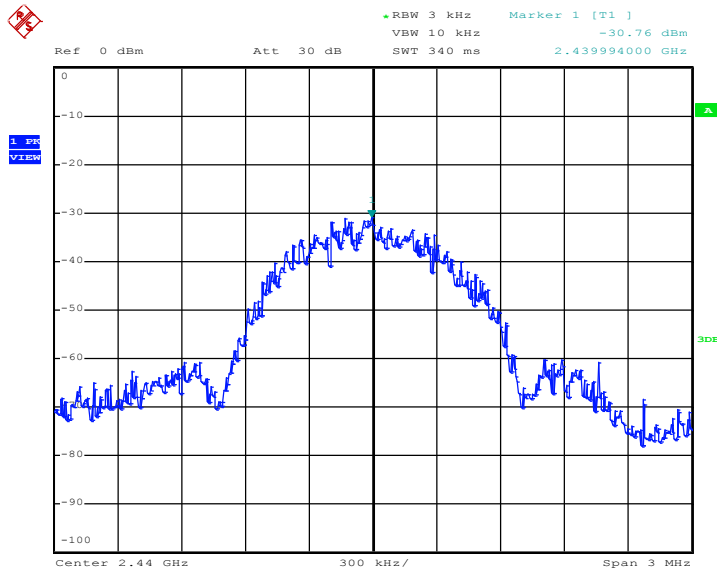
Appendix B.2: Conducted Power Spectral Density

BLE Low channel



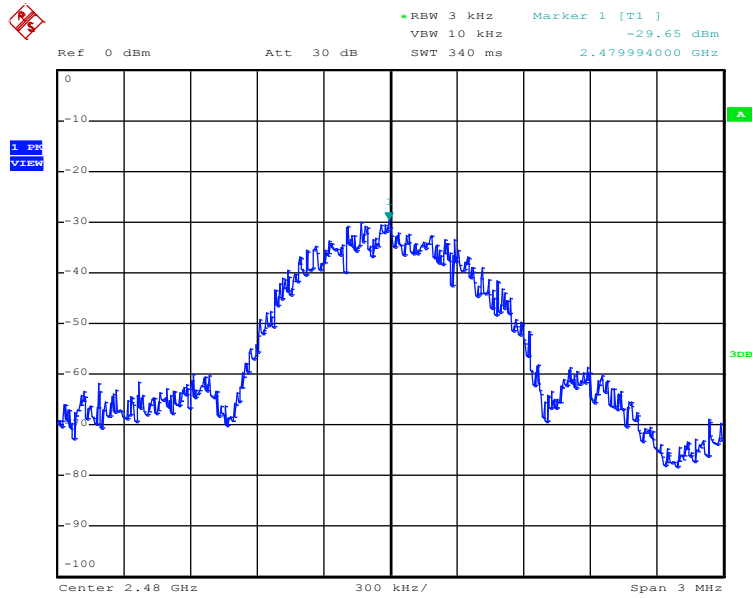
001-Conducted Power L 1DH5
Date: 5.SEP.2019 16:53:20

BLE Middle channel



001-Conducted Power L 1DH5
Date: 5.SEP.2019 16:52:36

BLE High channel

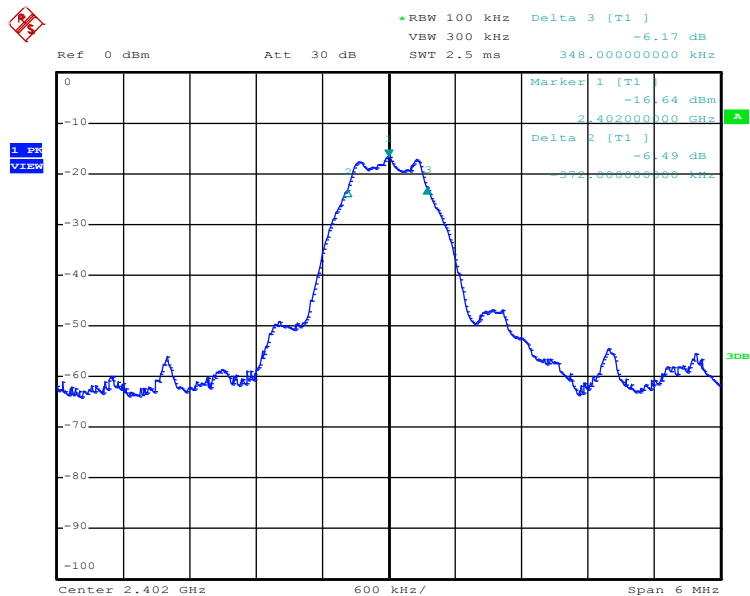


001-Conducted Power L 1DH5

Date: 5.SEP.2019 16:50:05

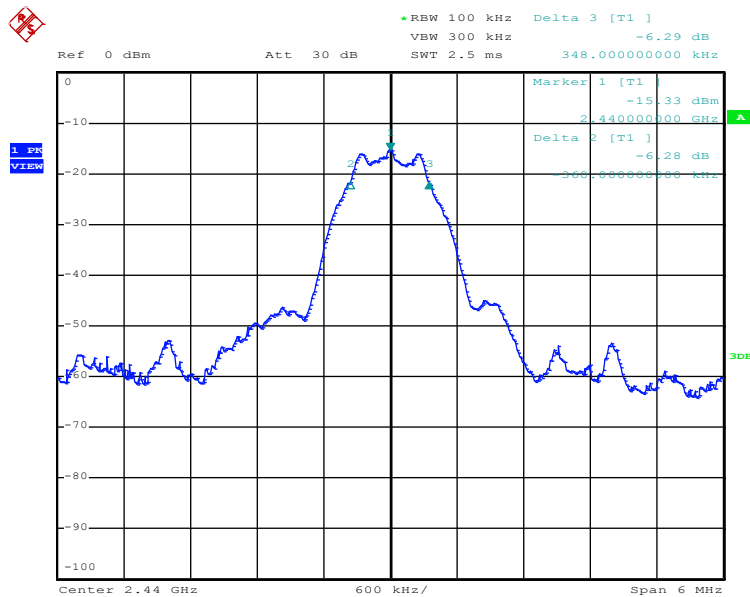
Appendix B.3: 6dB Bandwidth

BLE Low channel



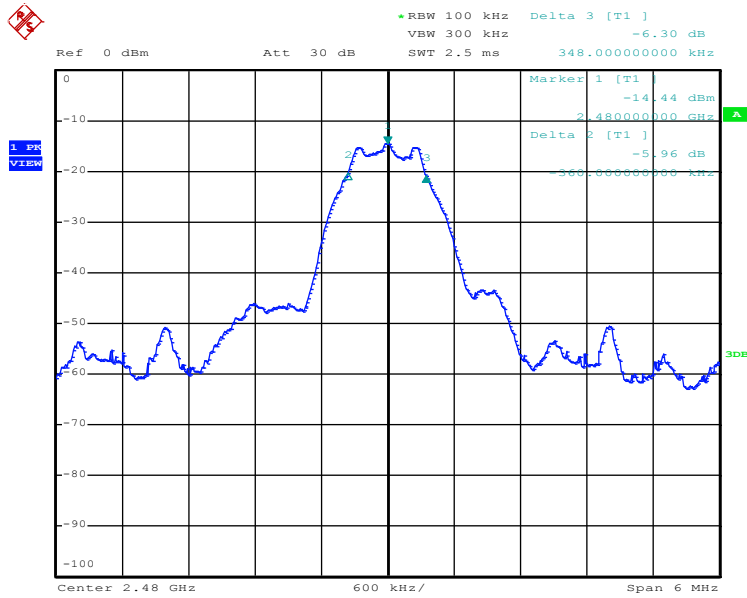
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Date: 5.SEP.2019 16:38:39

BLE Middle channel



001-Conducted Power L 1DH5
Date: 5.SEP.2019 16:33:50

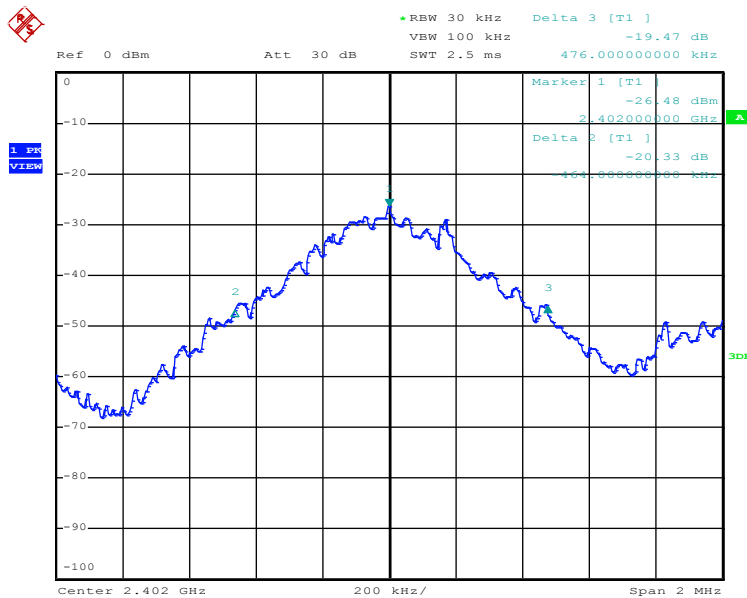
BLE high channel



001-Conducted Power L 1DH5
Date: 5.SEP.2019 16:32:45

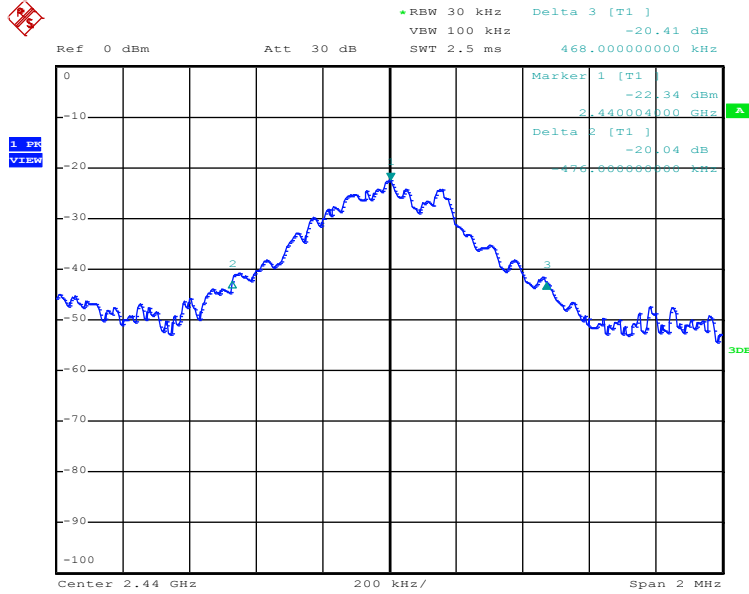
Appendix B.4: 20dB Bandwidth

BDR Low channel



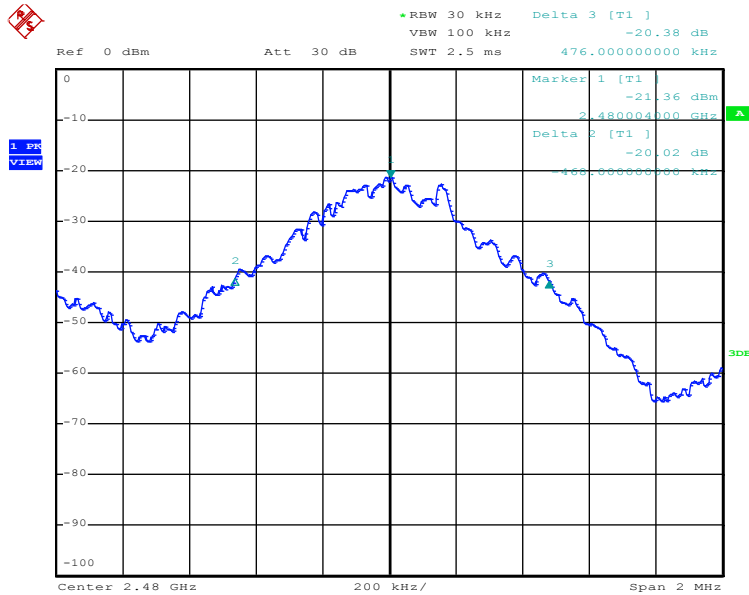
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Date: 5.SEP.2019 17:54:00

BDR Middle channel



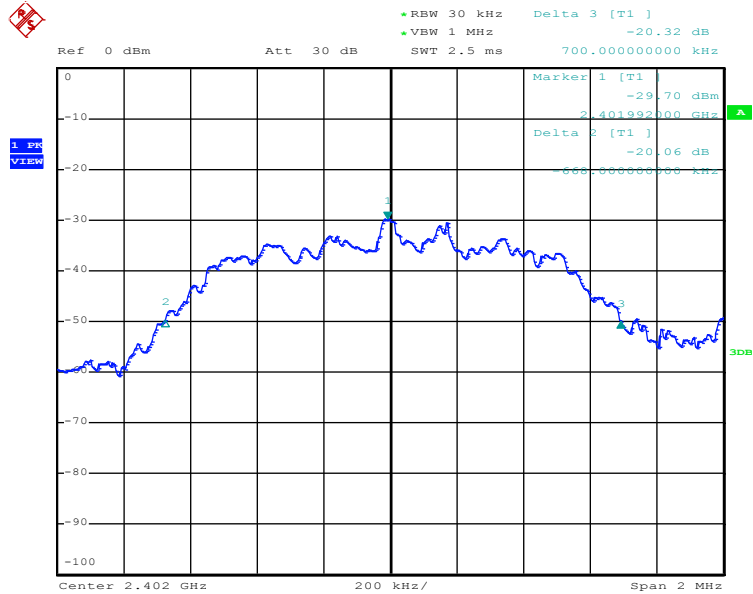
001-Conducted Power L 1DH5
 Date: 5.SEP.2019 17:52:07

BDR High channel



001-Conducted Power L 1DH5
 Date: 5.SEP.2019 17:50:50

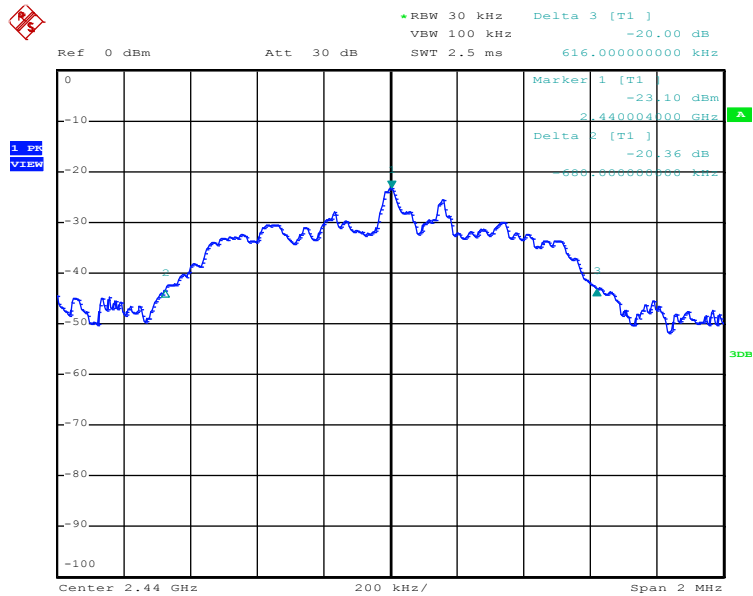
EDR Low channel



001-Conducted Power L 1DH5

Date: 5.SEP.2019 17:45:43

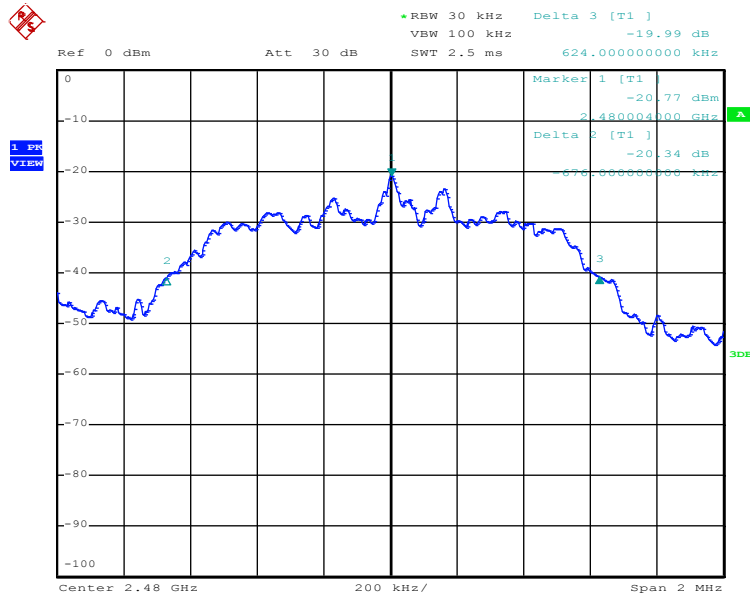
EDR Middle channel



001-Conducted Power L 1DH5

Date: 5.SEP.2019 17:48:18

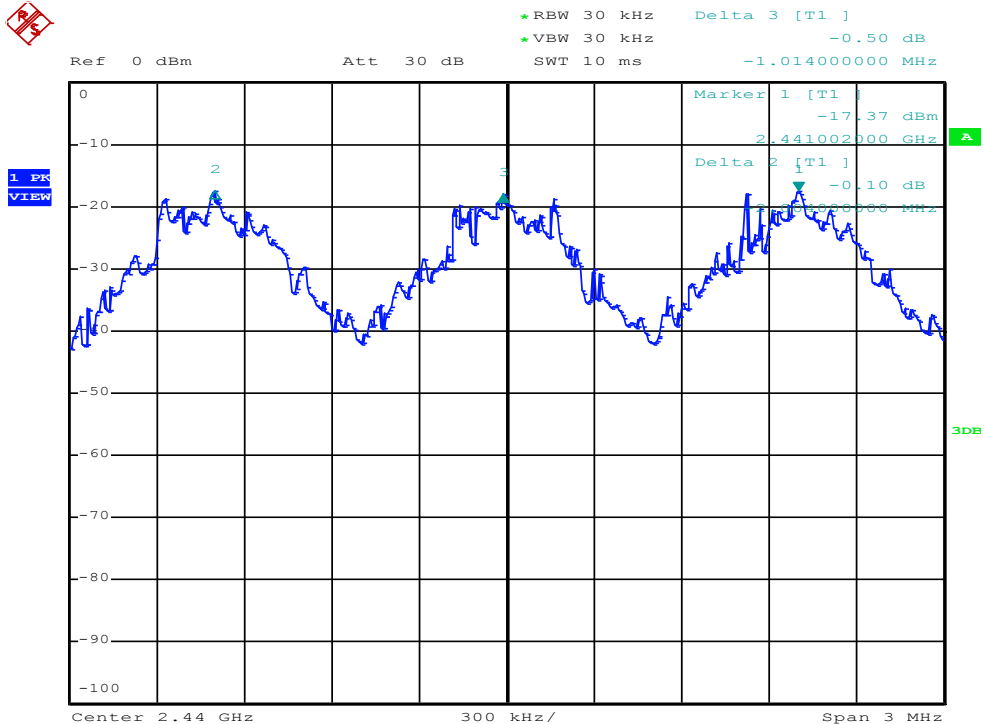
EDR High channel



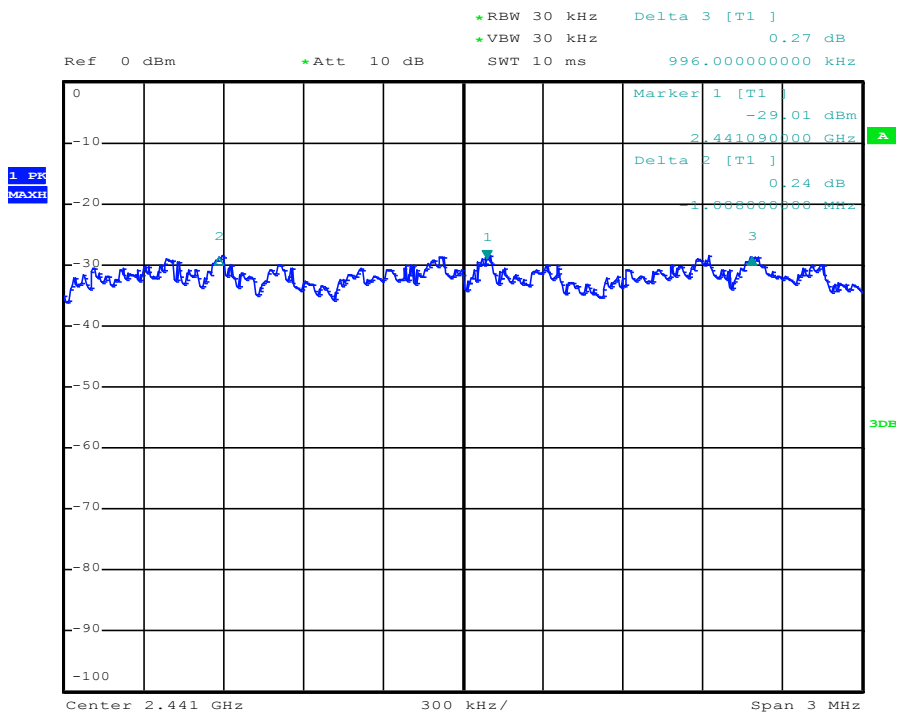
001-Conducted Power L 1DH5
Date: 5.SEP.2019 17:49:19

Appendix B.5: Carrier Frequency Separation

BDR mode

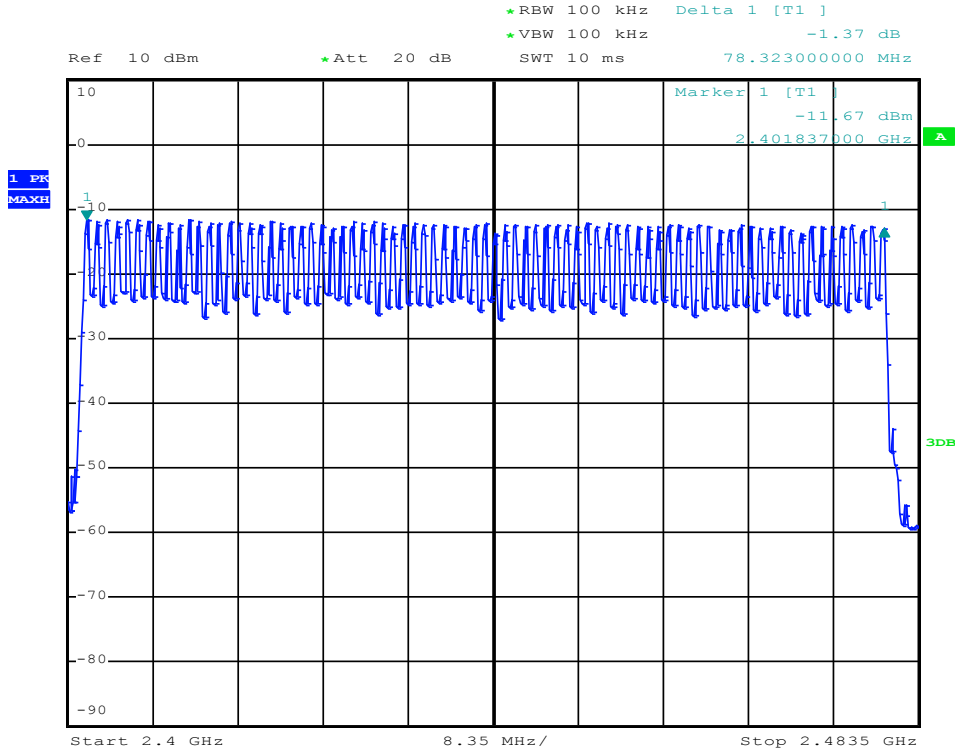


EDR mode

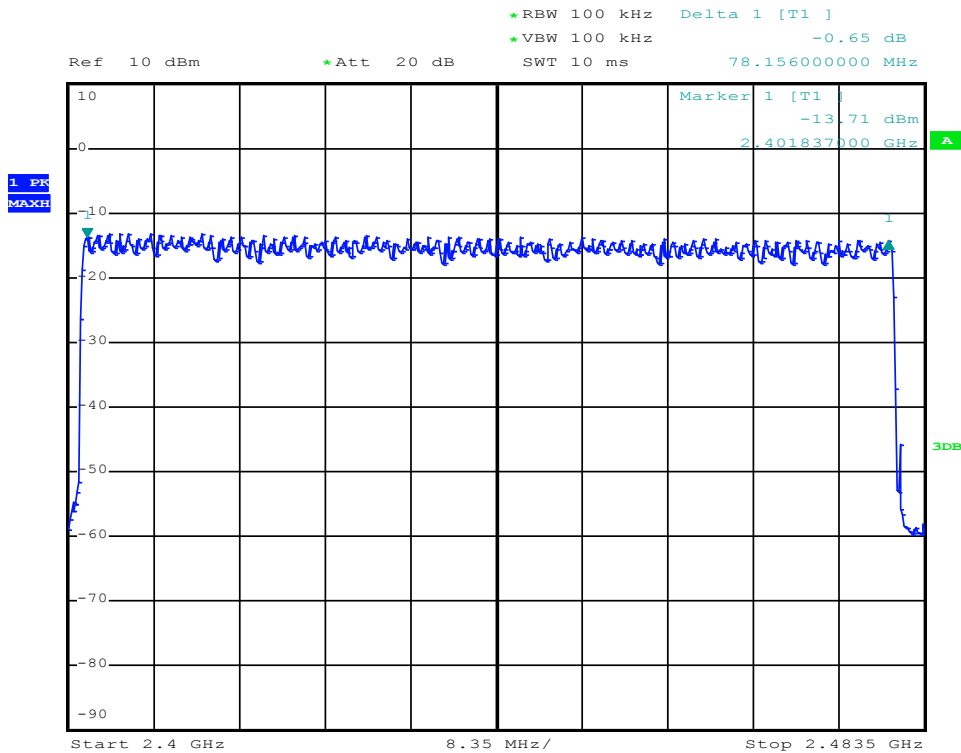


Appendix B.6: Number of Hopping Frequency

BDR mode

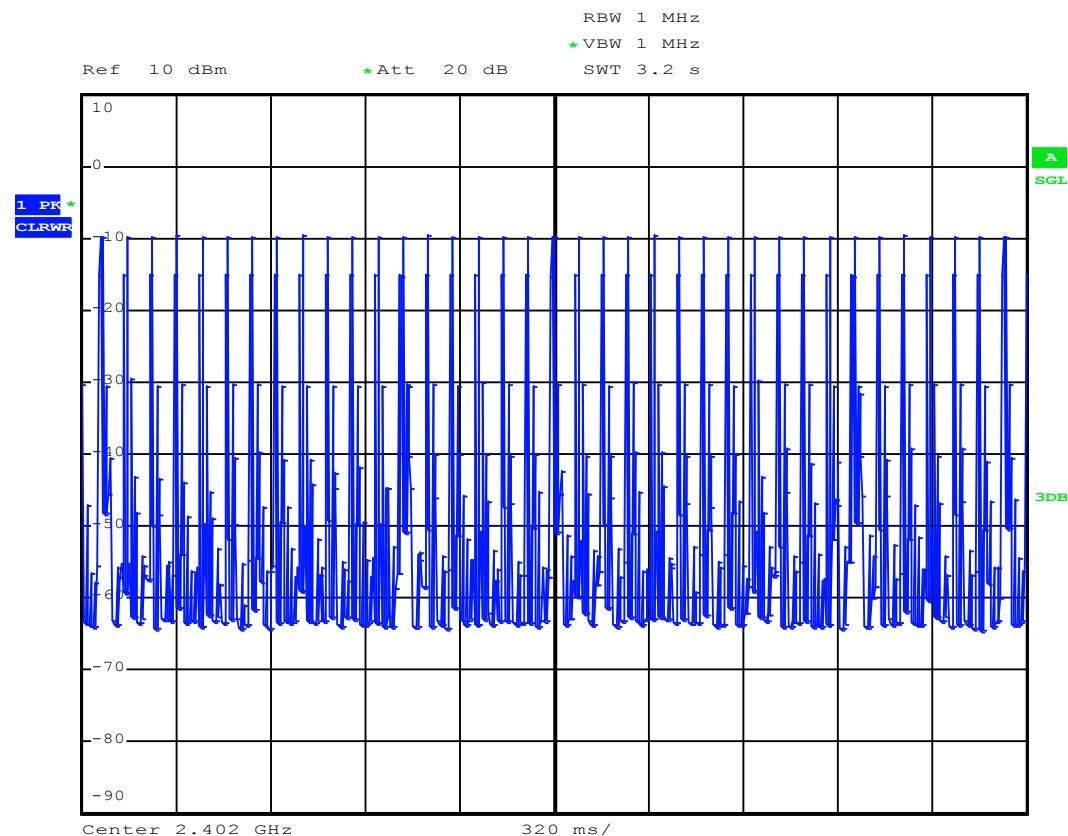
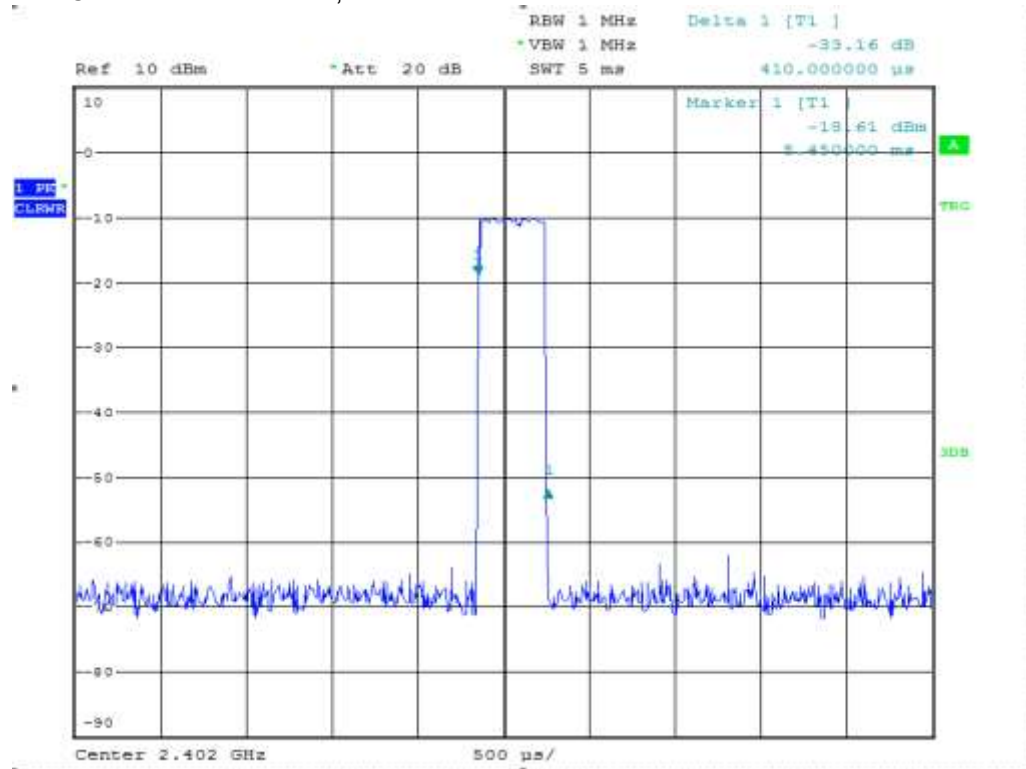


EDR mode

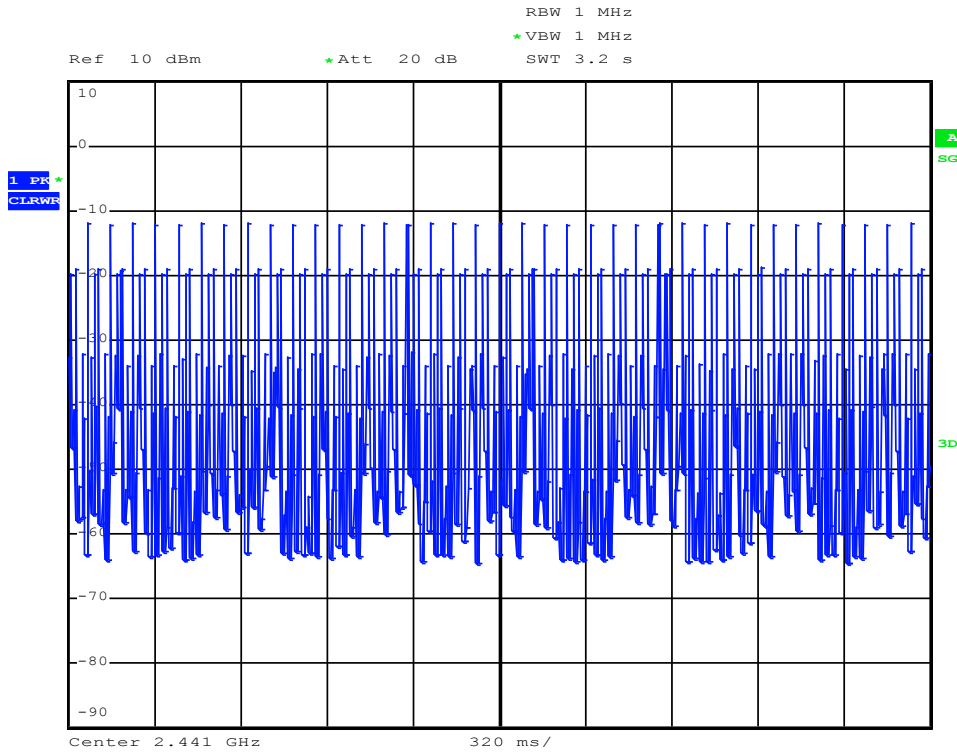
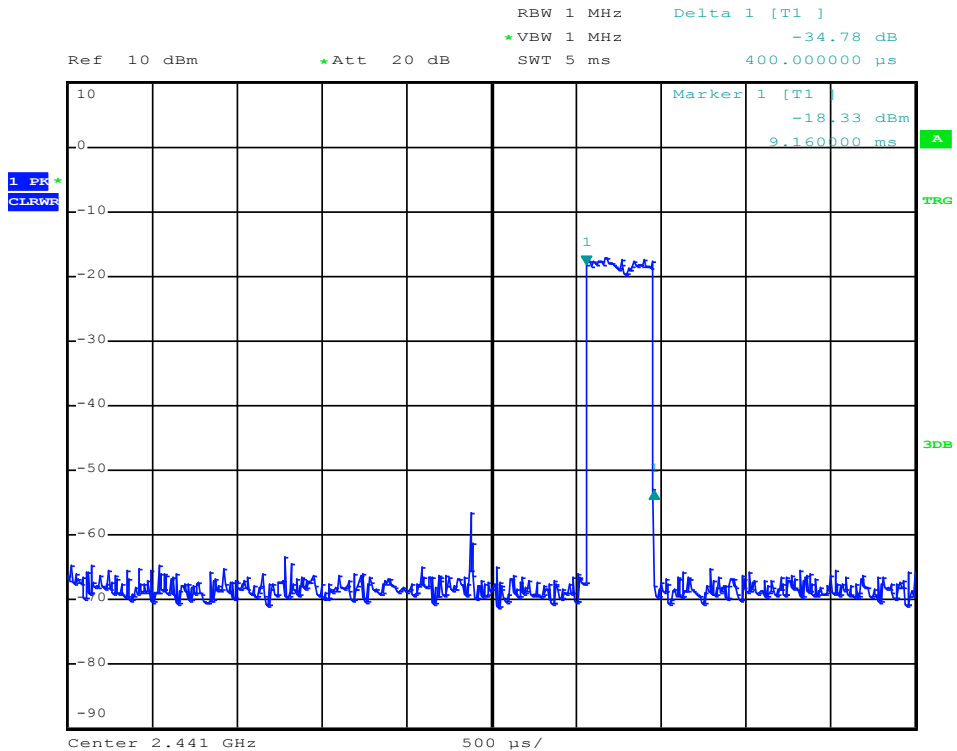


Appendix B.7: Time of Occupancy, Worst-case

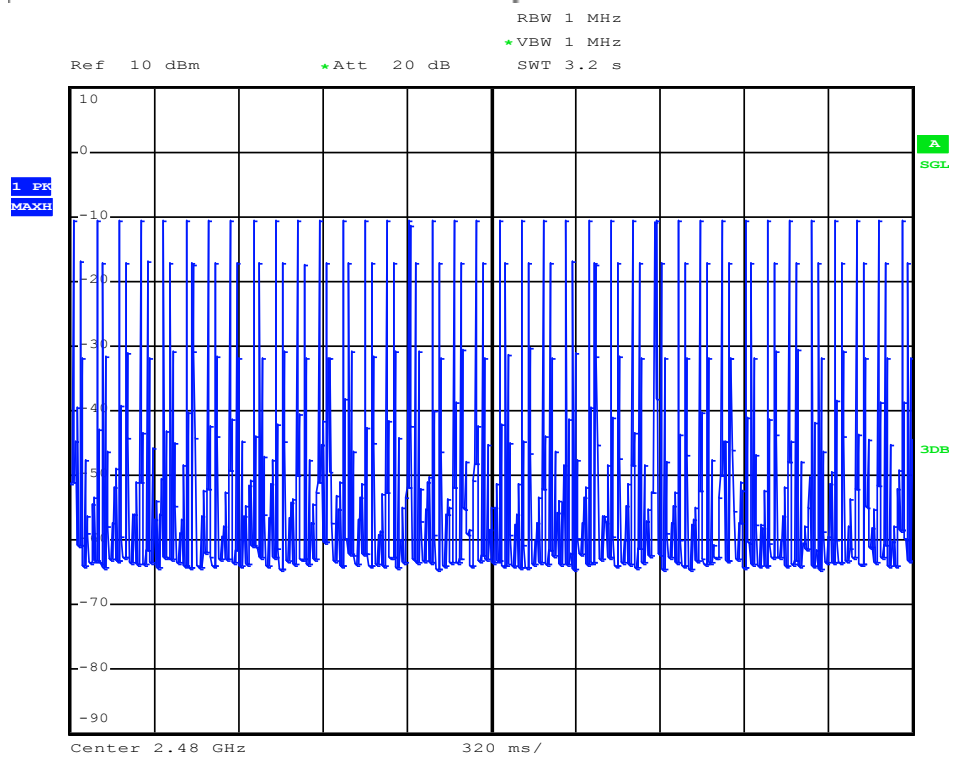
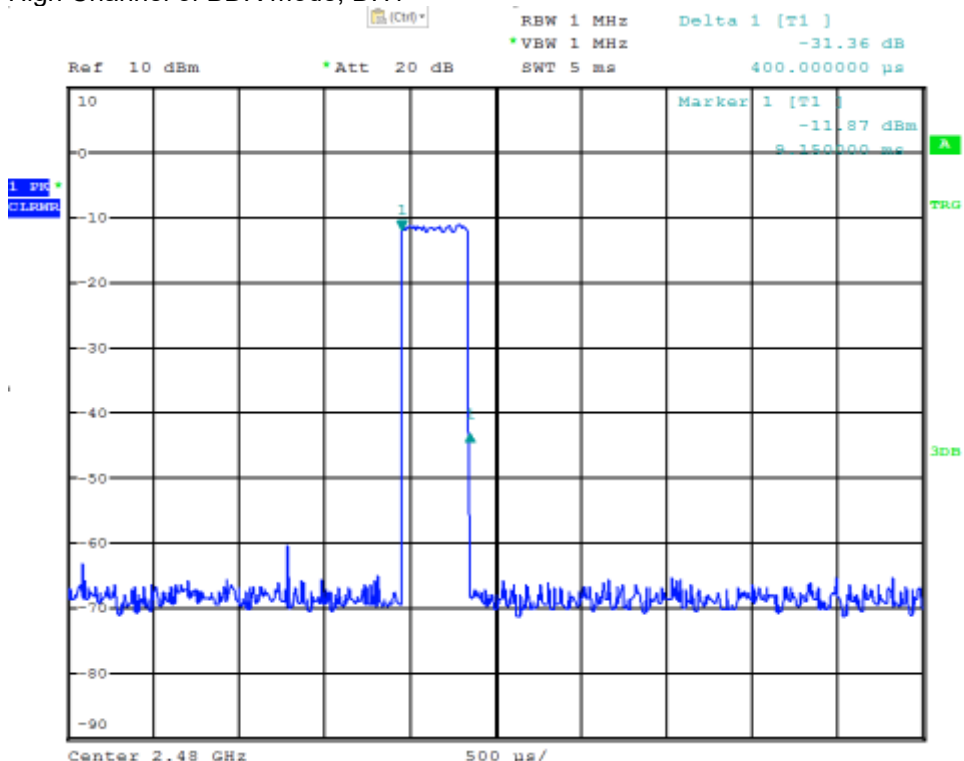
Low Channel of BDR mode, DH1



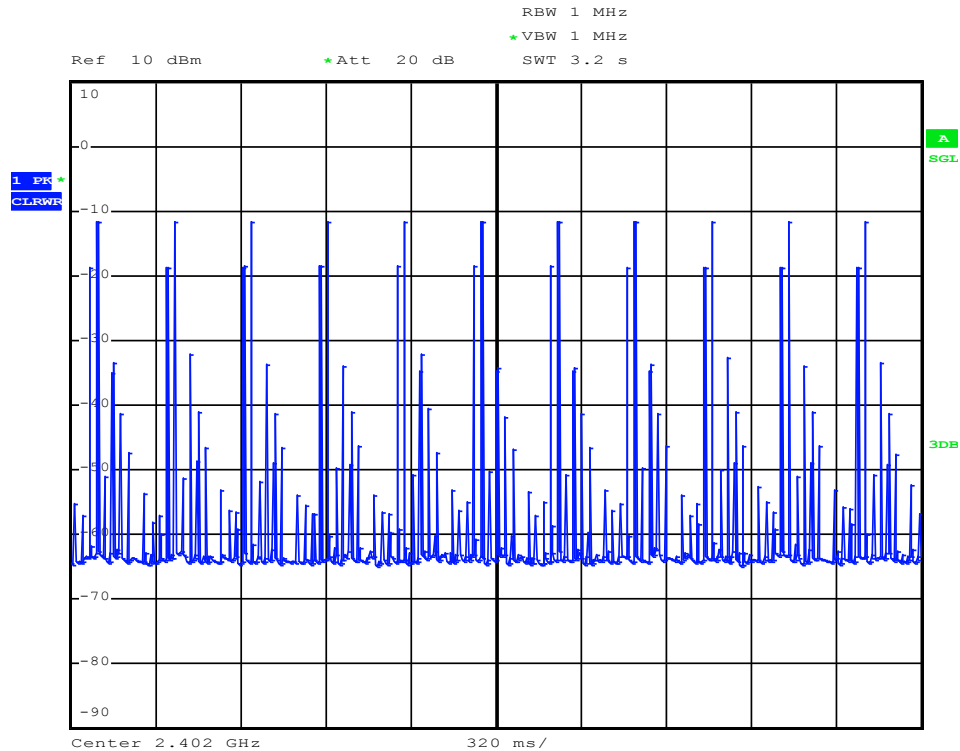
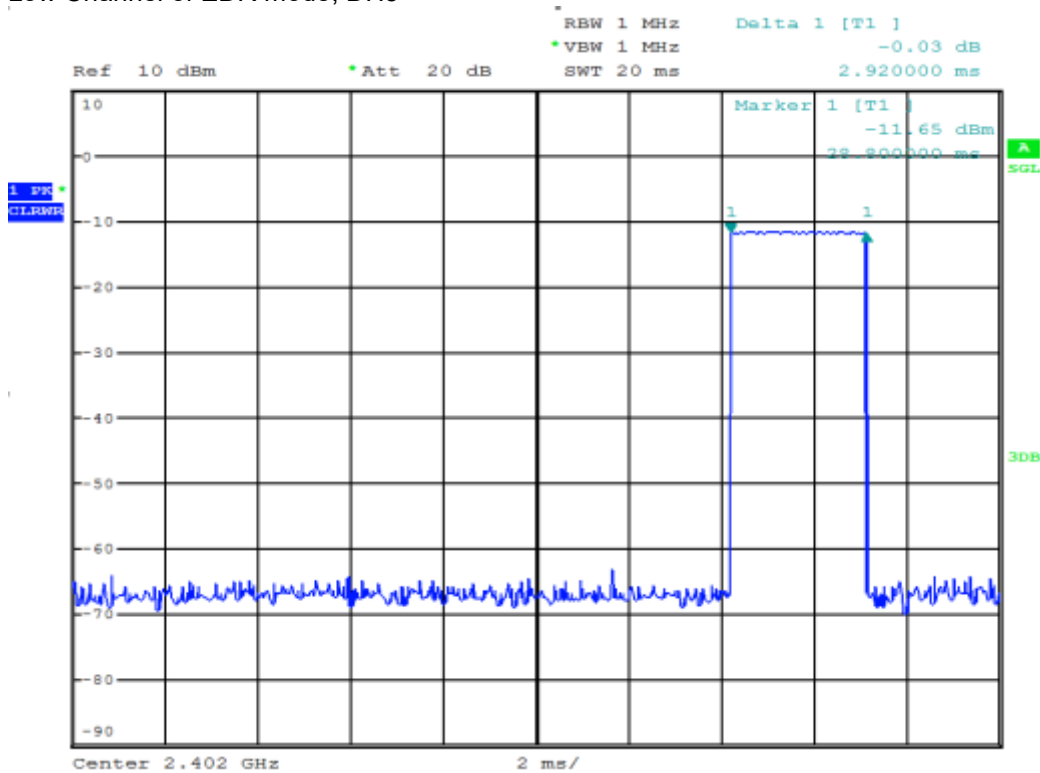
Middle Channel of BDR mode, DH1



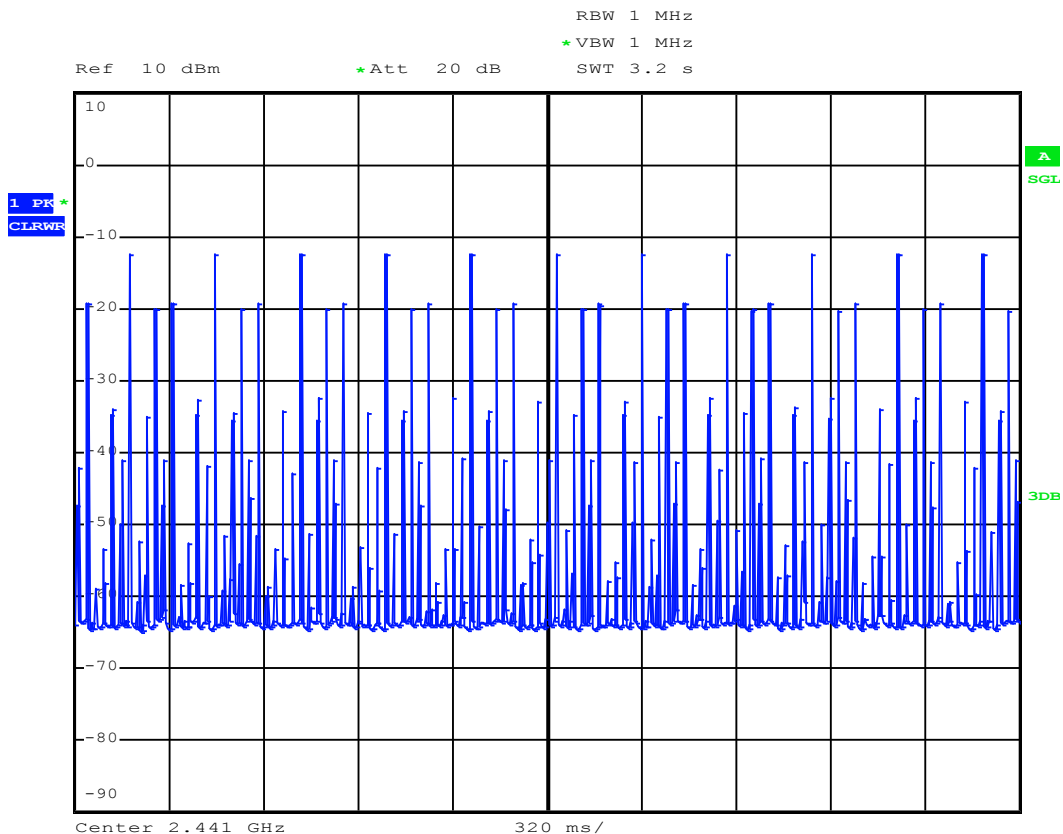
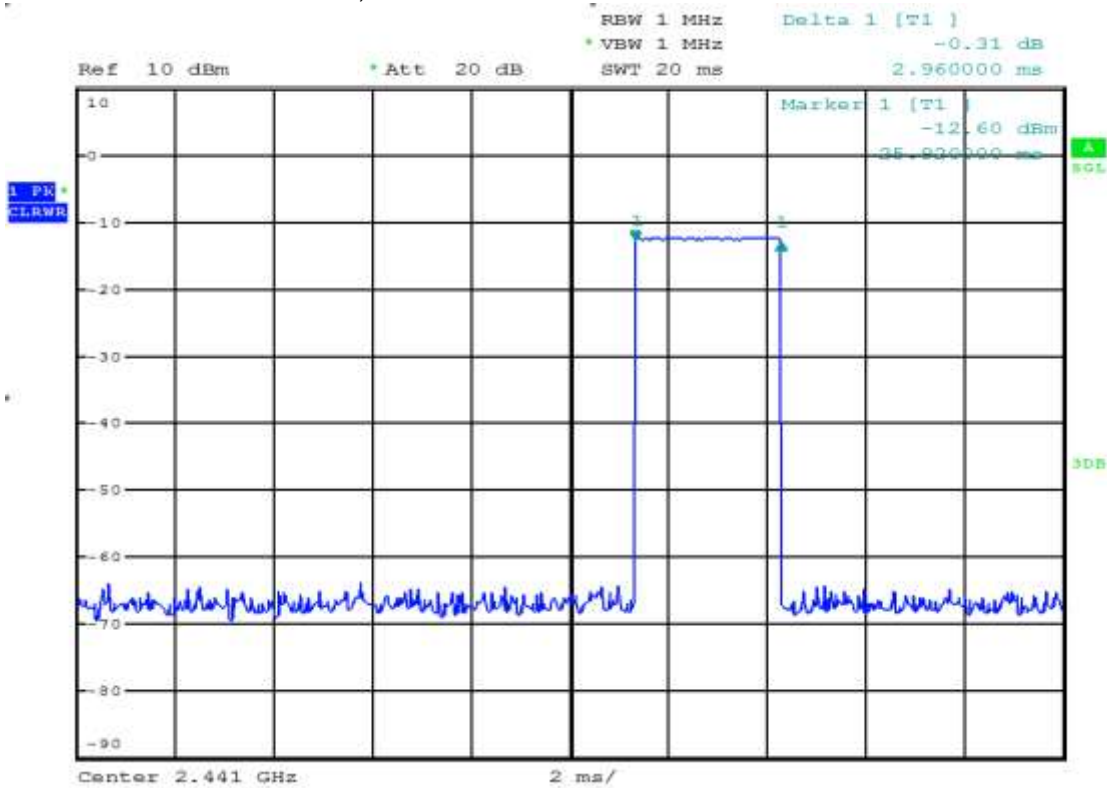
High Channel of BDR mode, DH1



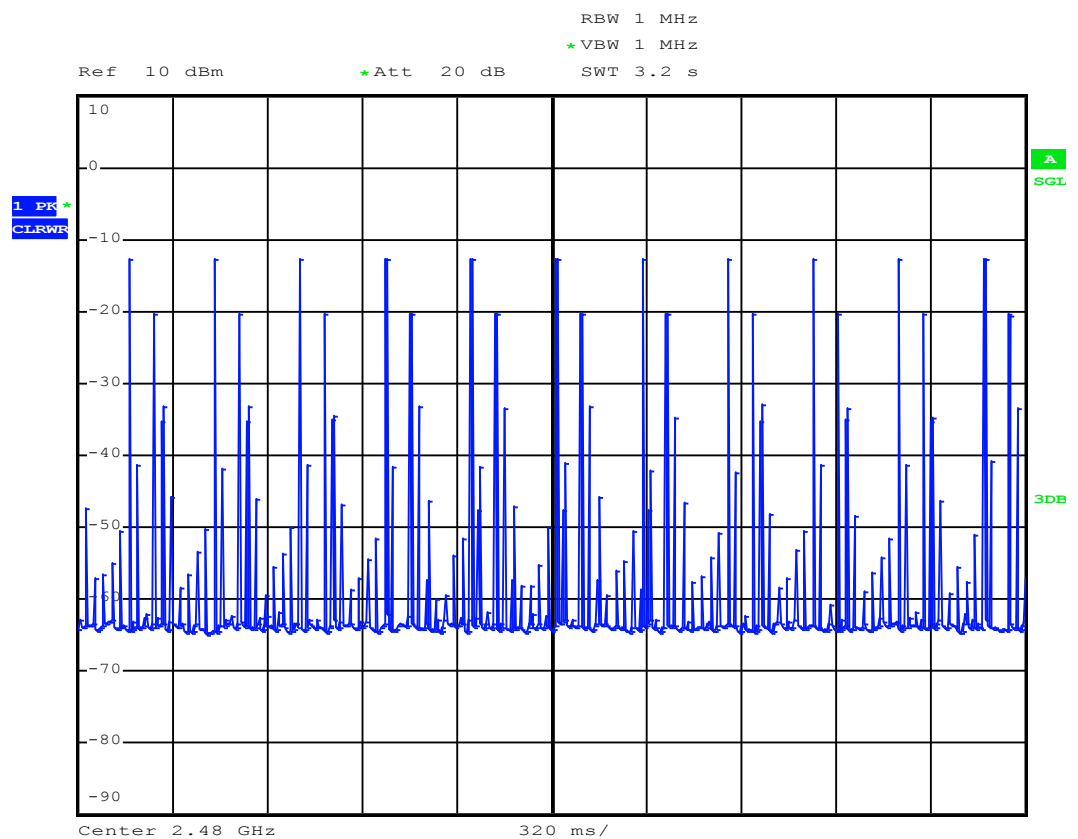
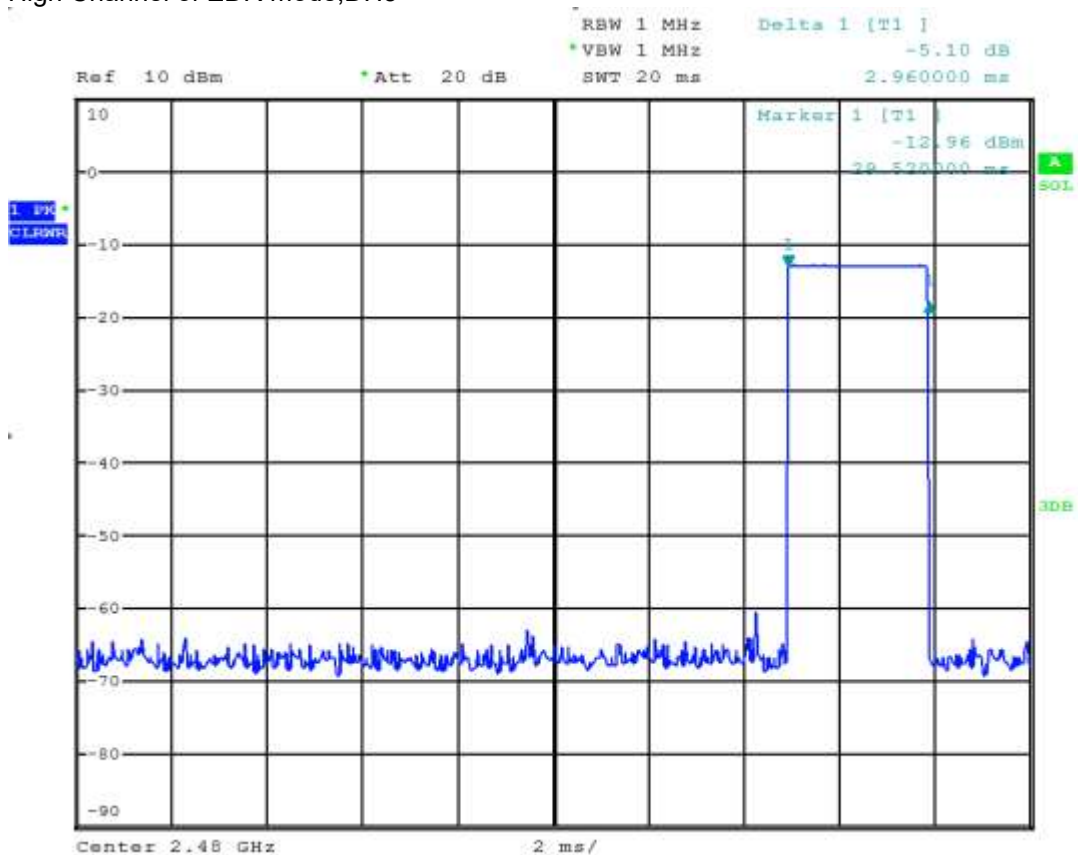
Low Channel of EDR mode, DH5



Middle Channel of EDR mode,DH5

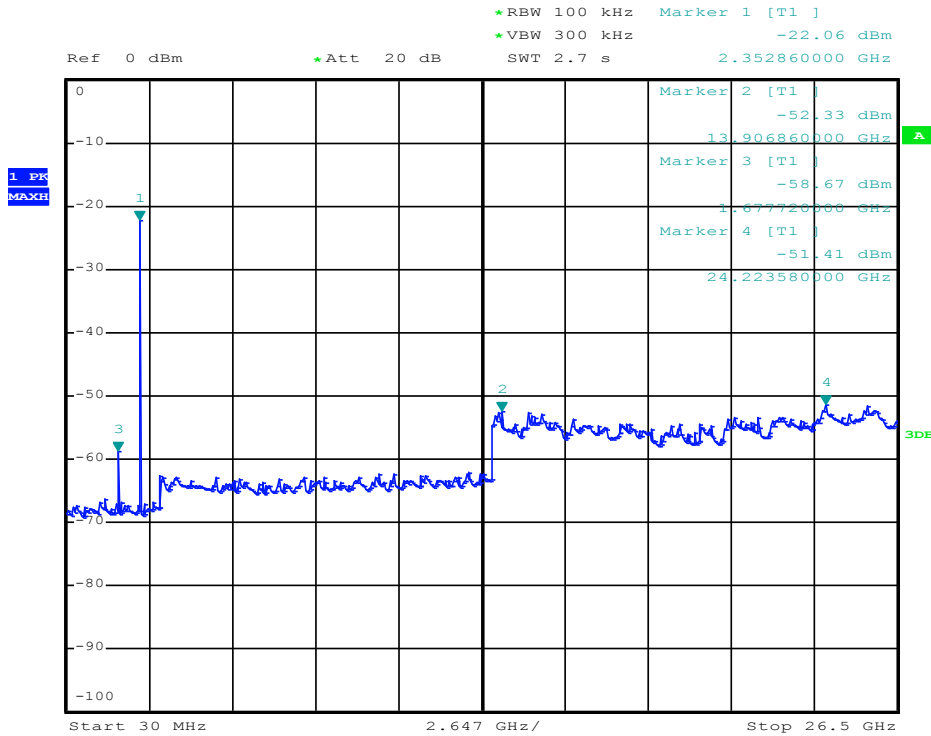


High Channel of EDR mode, DH5

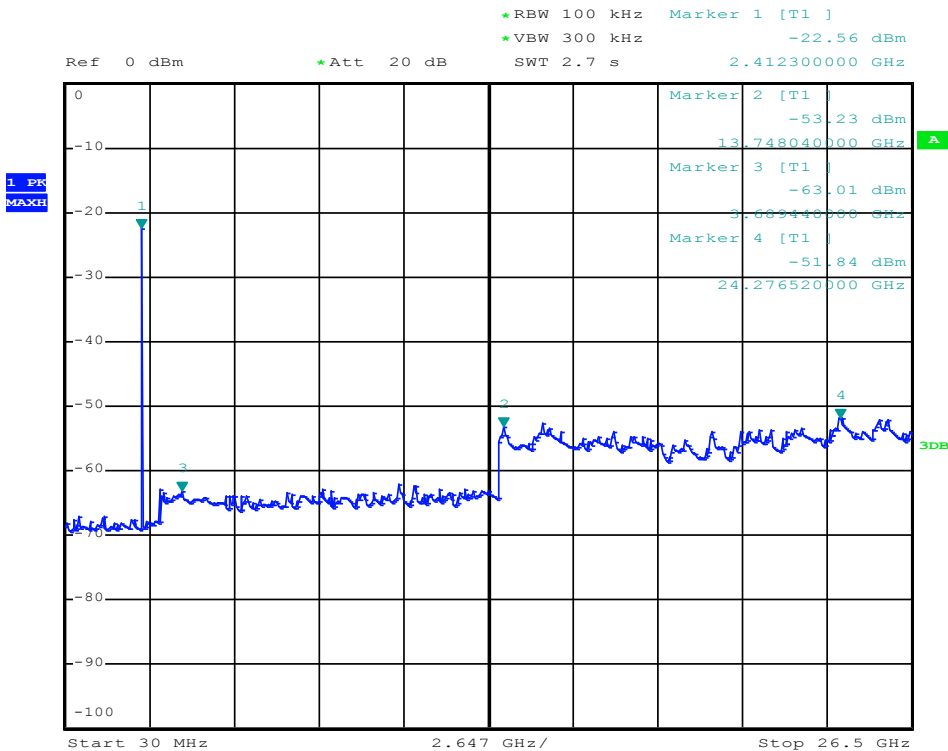


Appendix B.8: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

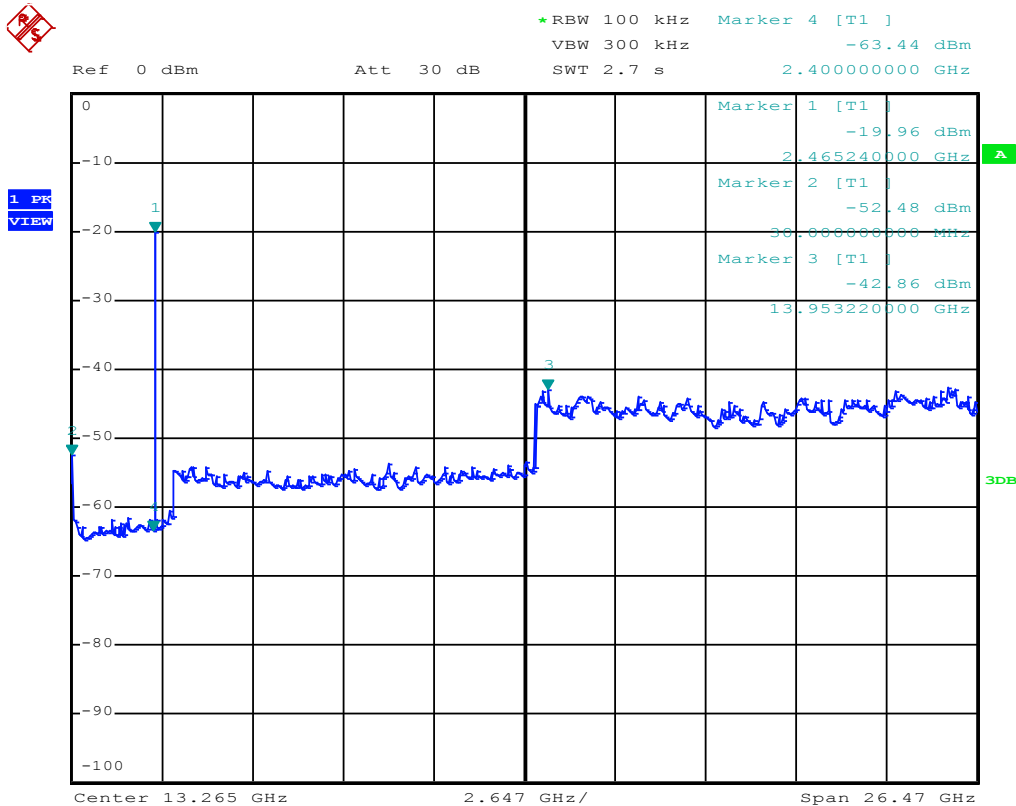
Low Channel of BDR mode



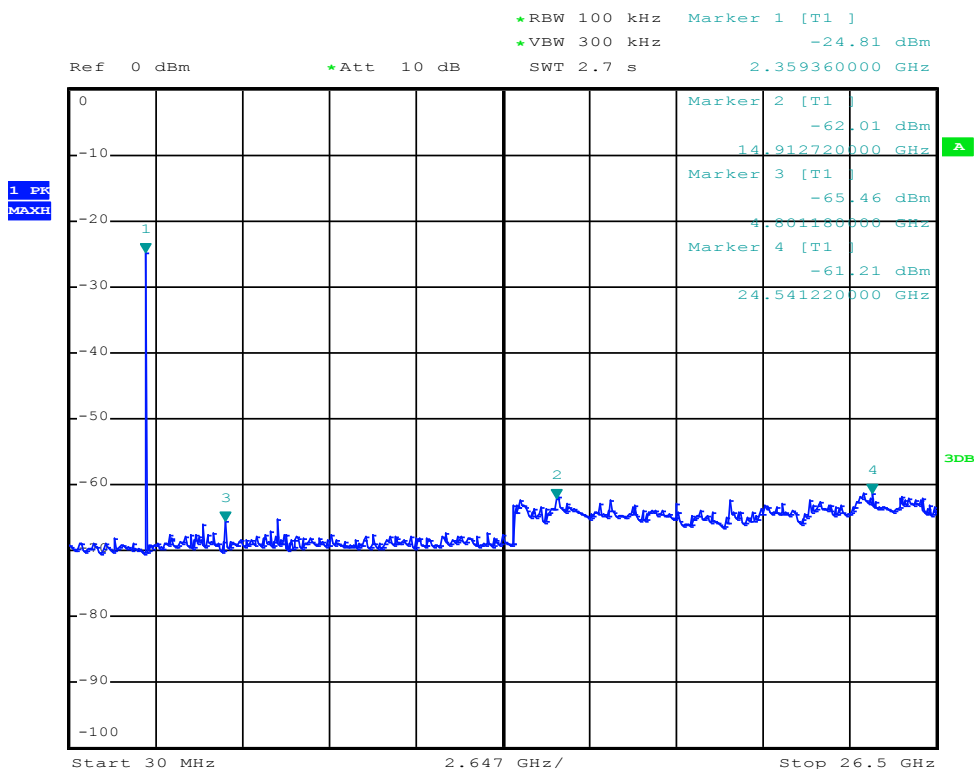
Middle Channel of BDR mode



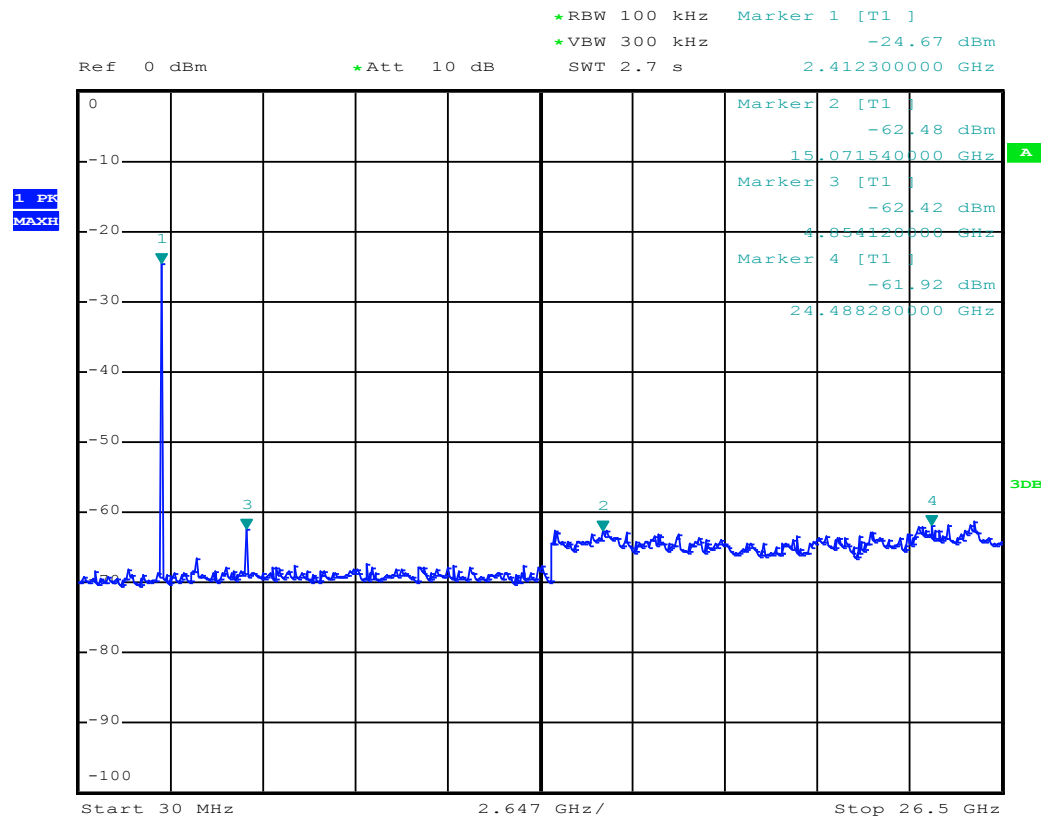
High Channel of BDR mode



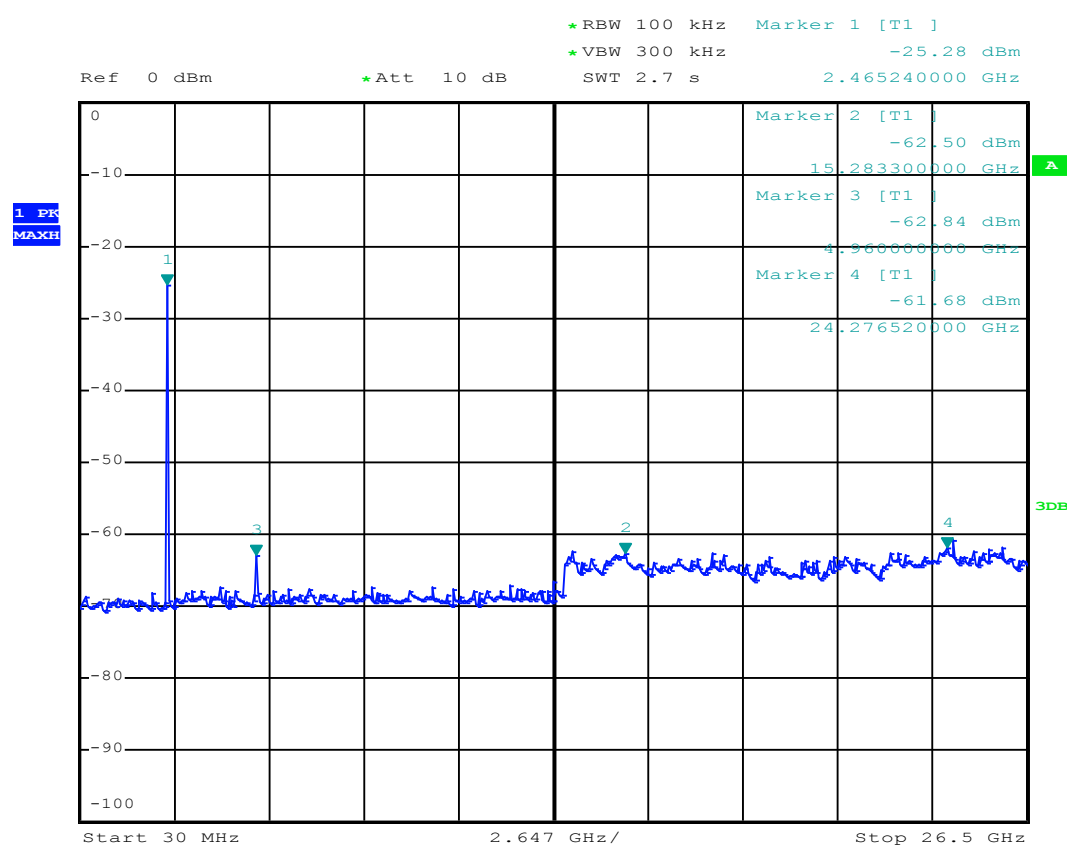
Low Channel of EDR mode



Middle Channel of EDR mode



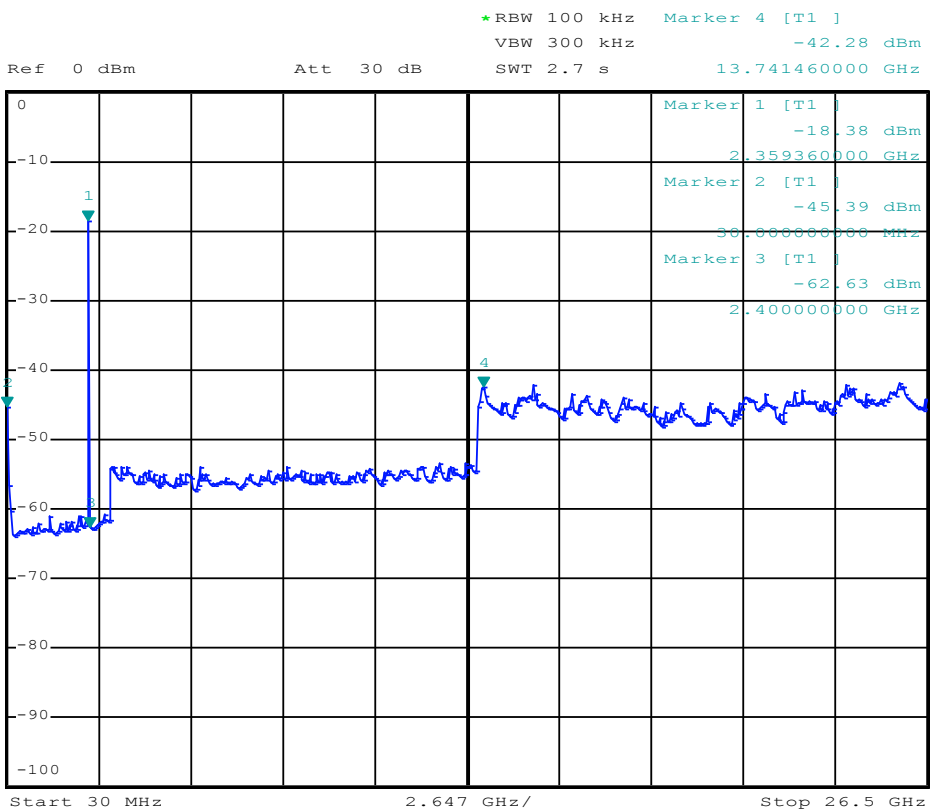
High Channel of EDR mode



Low Channel of BLE mode



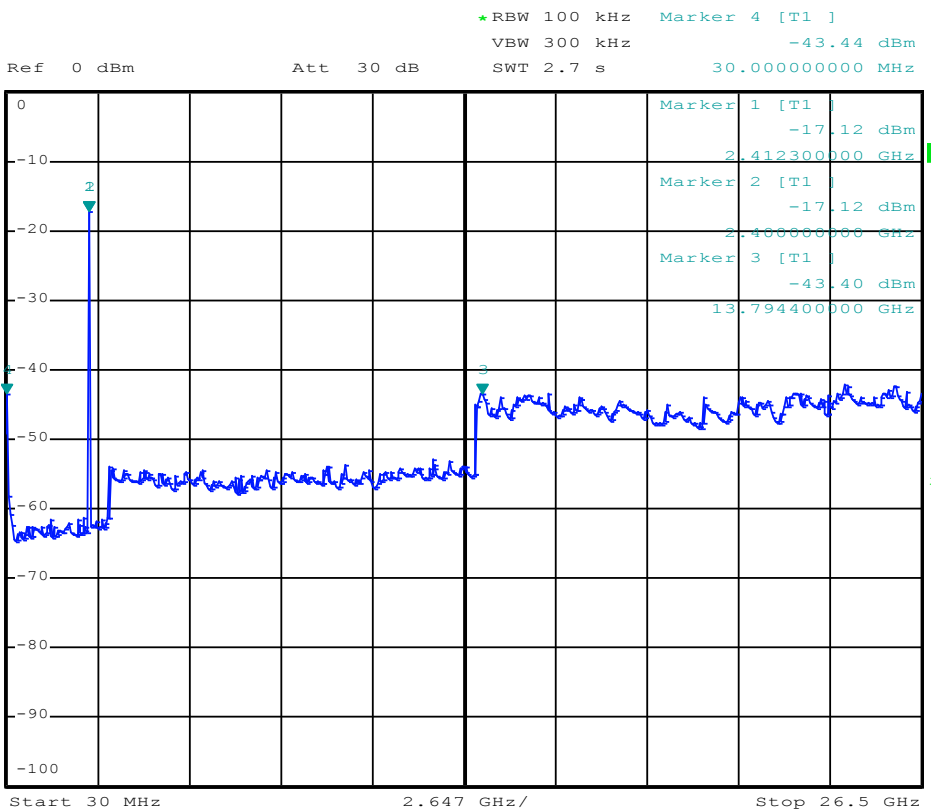
1 PK
VIEW



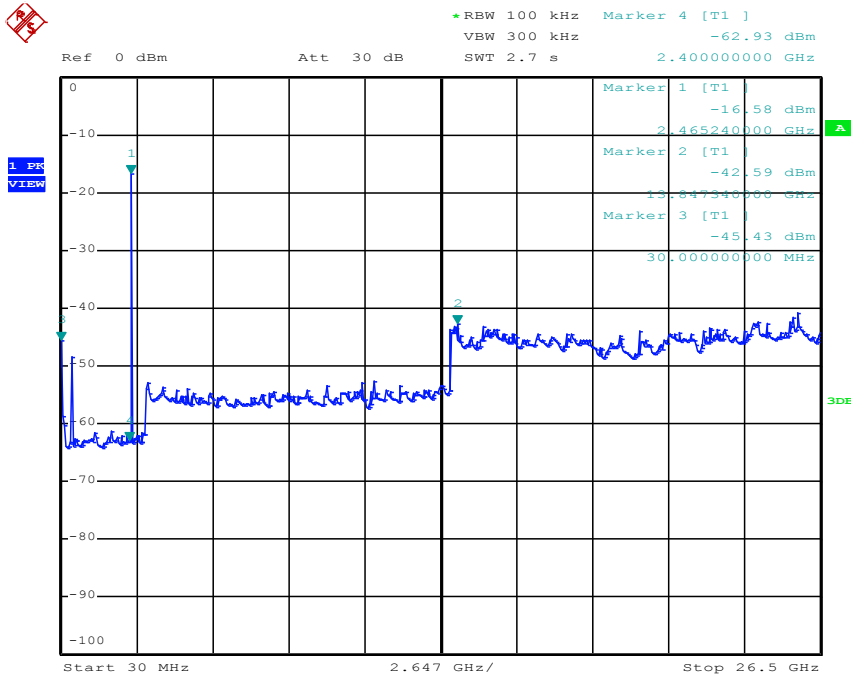
Middle Channel of BLE mode



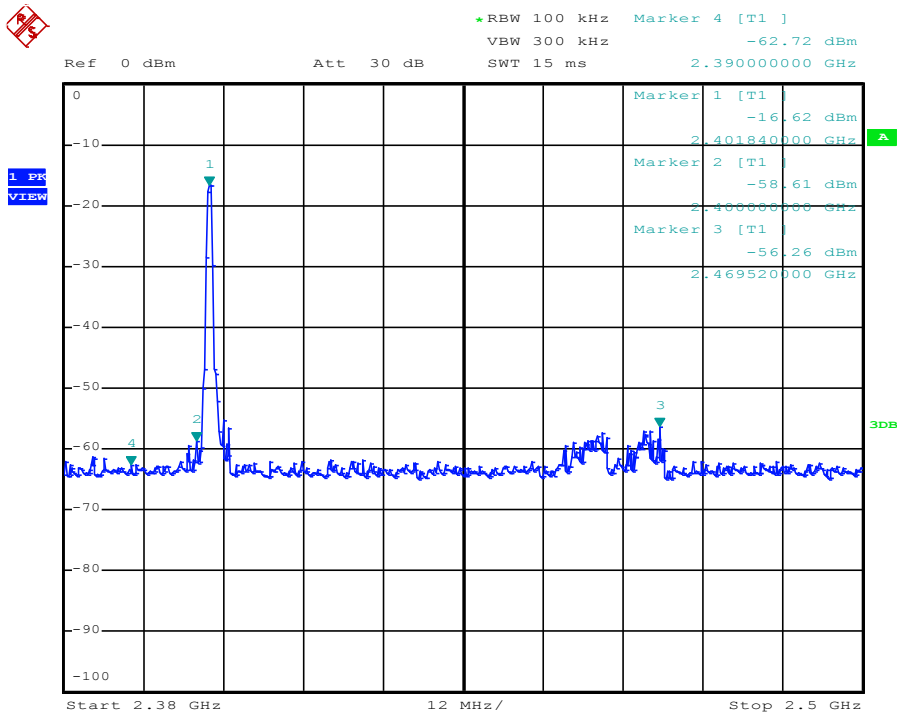
1 PK
VIEW



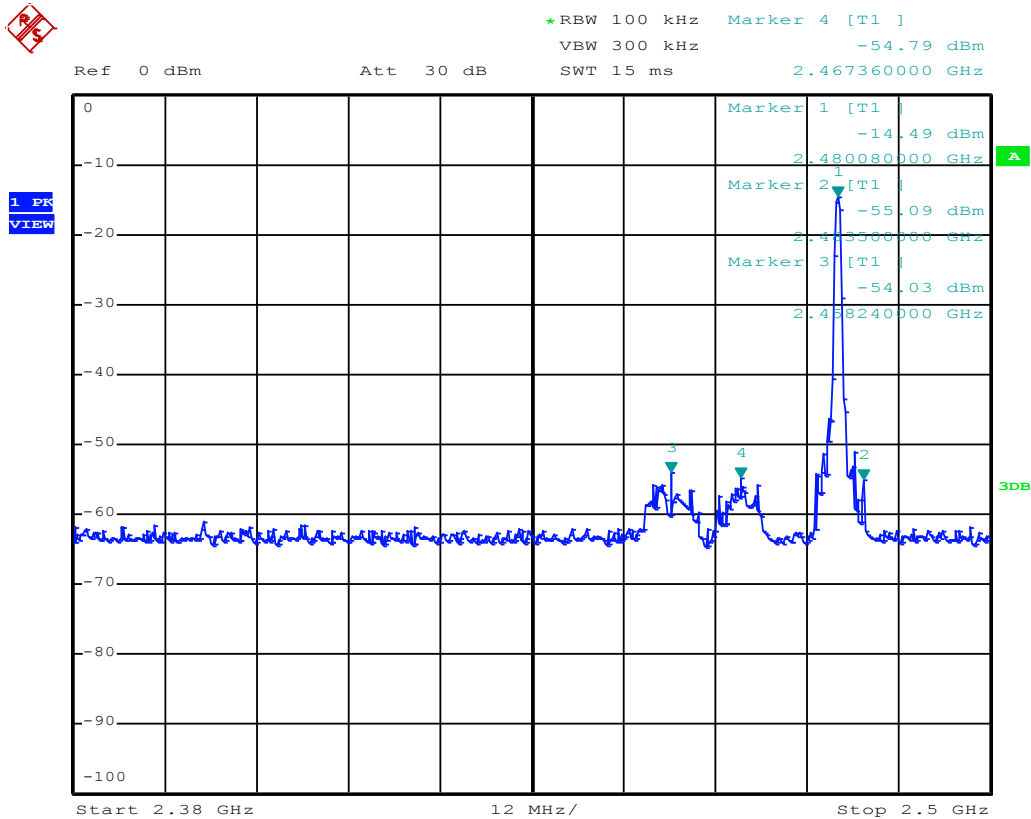
High Channel of BLE mode



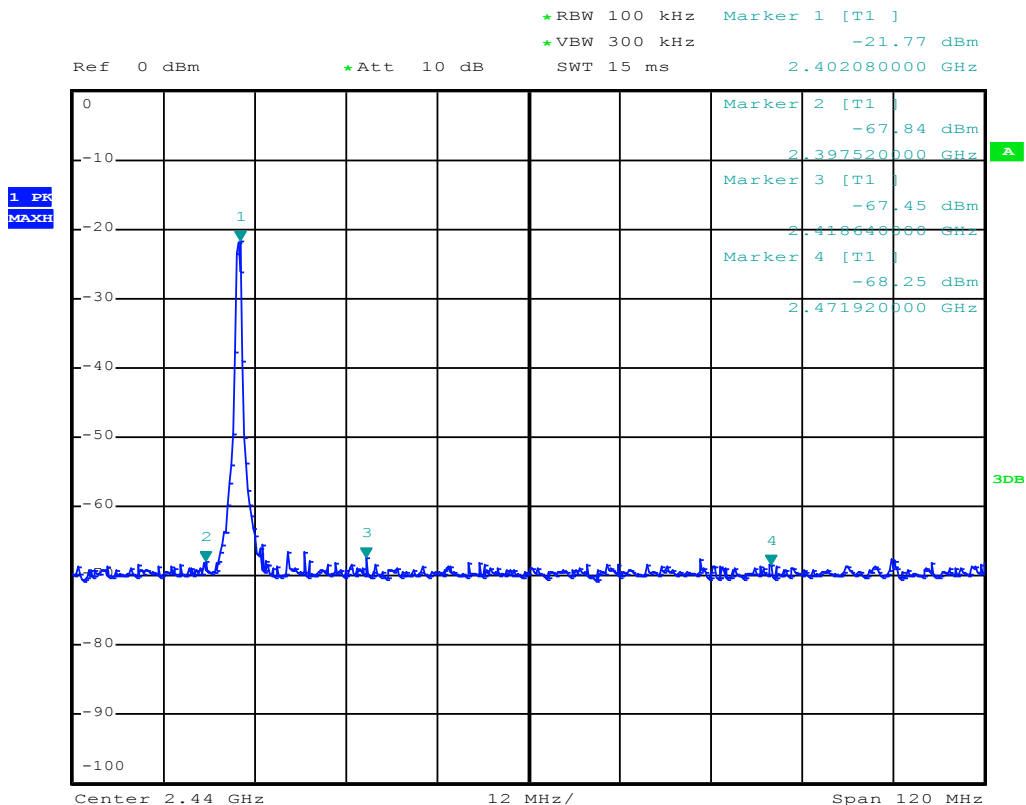
Band Edge, Low Channel of BLE mode

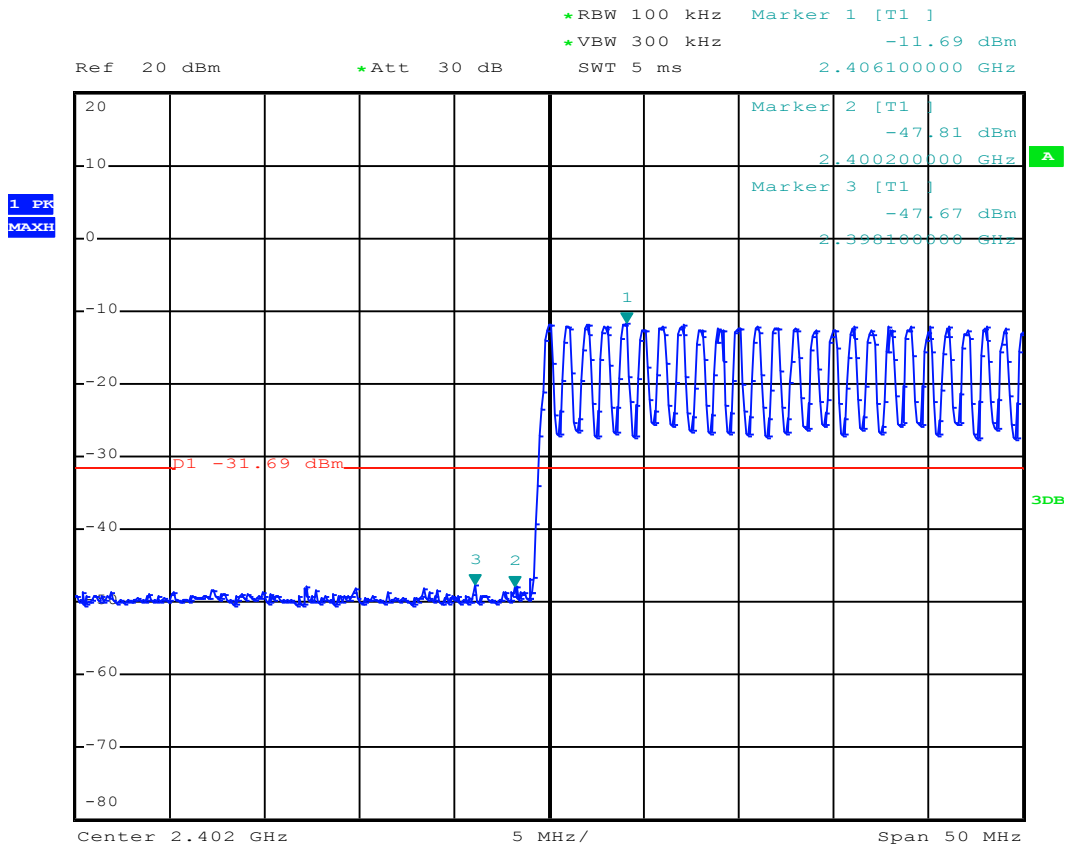


Band Edge, High Channel of BLE mode

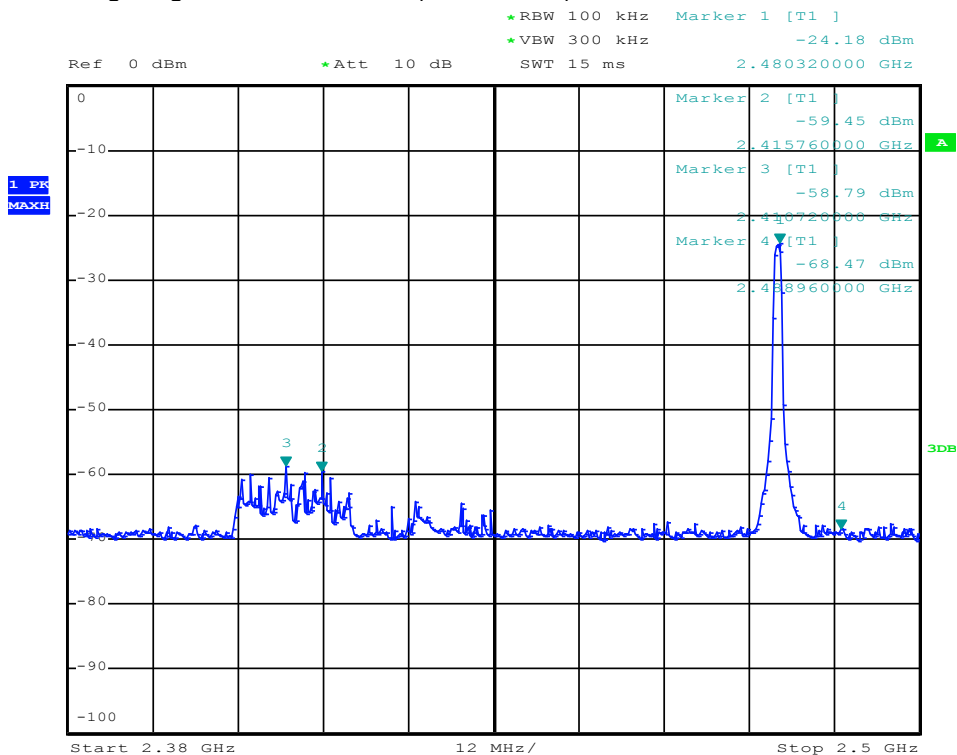


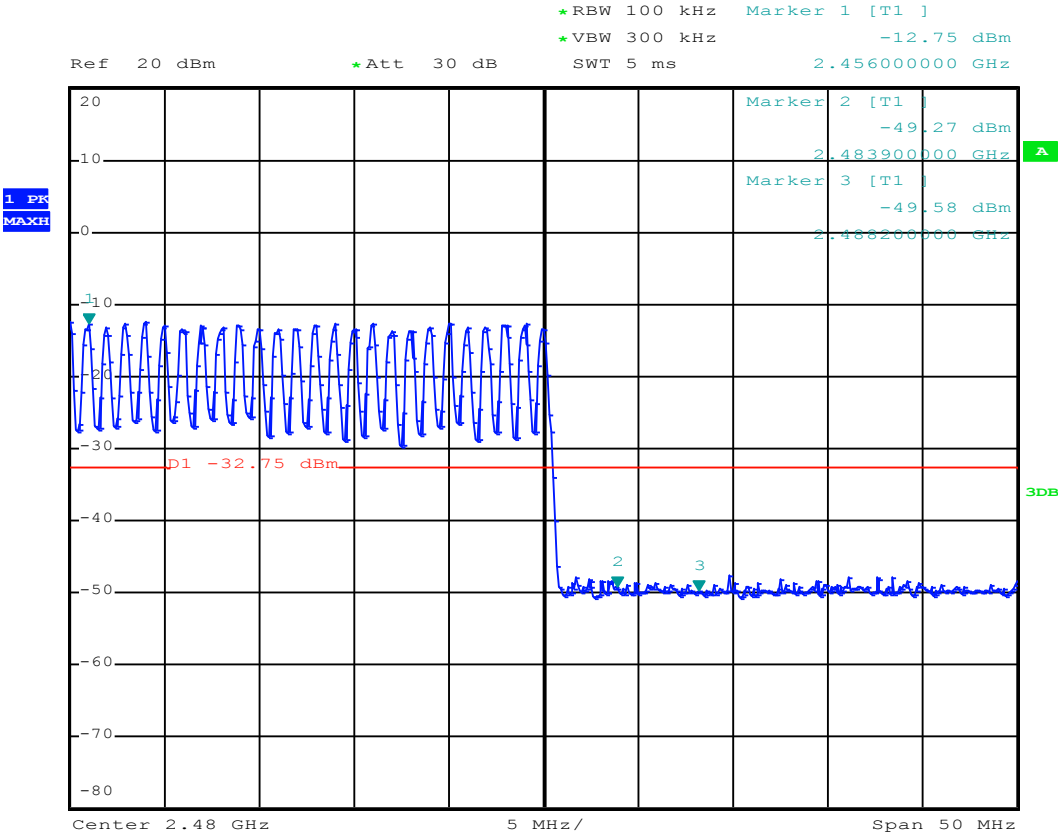
Band Edge left side, BDR mode (Worst Case)





Band Edge Right side, BDR mode (Worst Case)





Appendix B.9: Test Results of Radiated Spurious Emissions 30MHz - 1GHz of BDR mode

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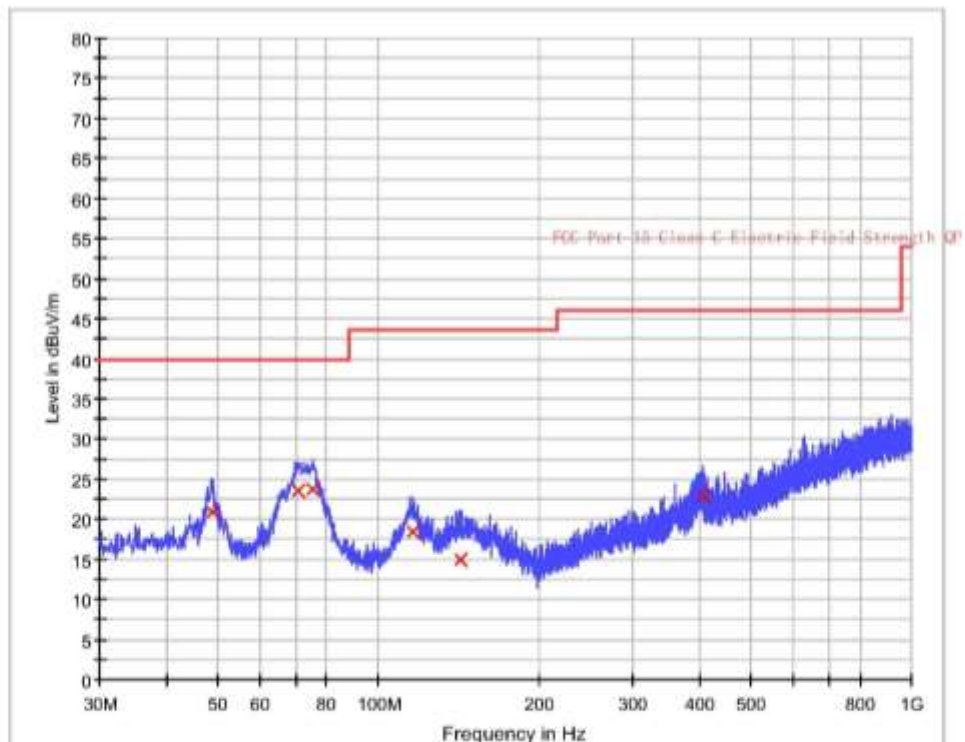
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
49.040000	20.9	1000.0	120.000	H	14.6	19.1	40.0	
70.600000	23.5	1000.0	120.000	H	12.2	16.5	40.0	
75.360000	23.8	1000.0	120.000	H	11.9	16.2	40.0	
116.080000	18.3	1000.0	120.000	H	13.5	25.2	43.5	
143.000000	15.0	1000.0	120.000	H	15.4	28.5	43.5	
406.000000	22.9	1000.0	120.000	H	18.9	23.1	46.0	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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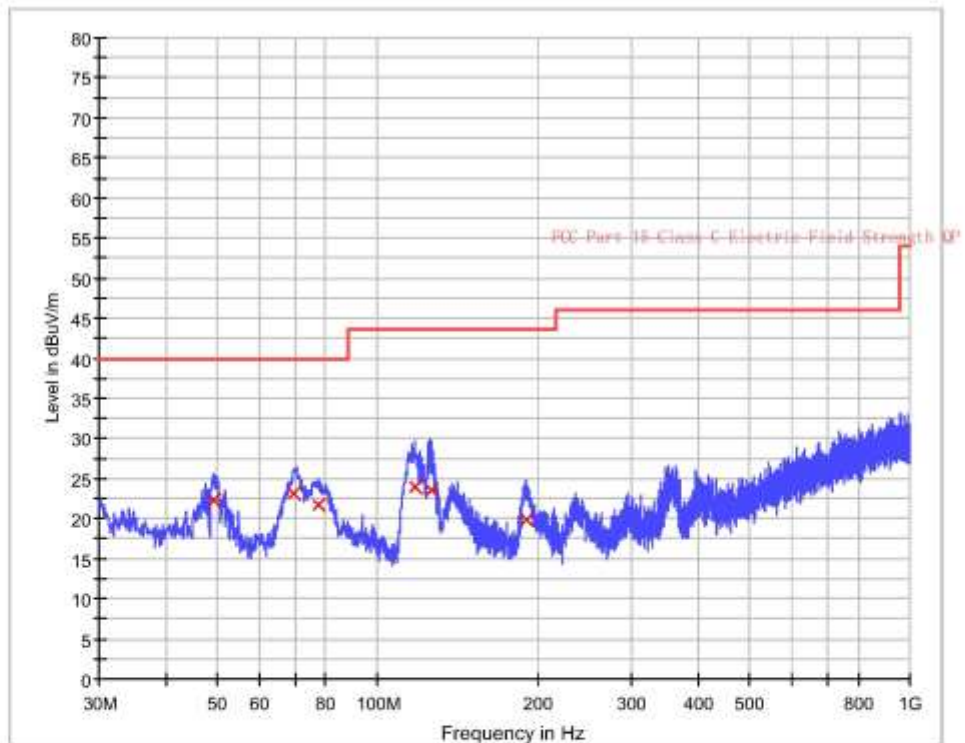
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
49.160000	22.3	1000.0	120.000	V	14.5	17.7	40.0	
69.640000	23.2	1000.0	120.000	V	12.3	16.8	40.0	
77.400000	21.7	1000.0	120.000	V	11.5	18.3	40.0	
117.560000	24.0	1000.0	120.000	V	13.6	19.5	43.5	
126.040000	23.5	1000.0	120.000	V	14.1	20.0	43.5	
190.040000	19.8	1000.0	120.000	V	13.1	23.7	43.5	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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30MHz - 1GHz of EDR mode

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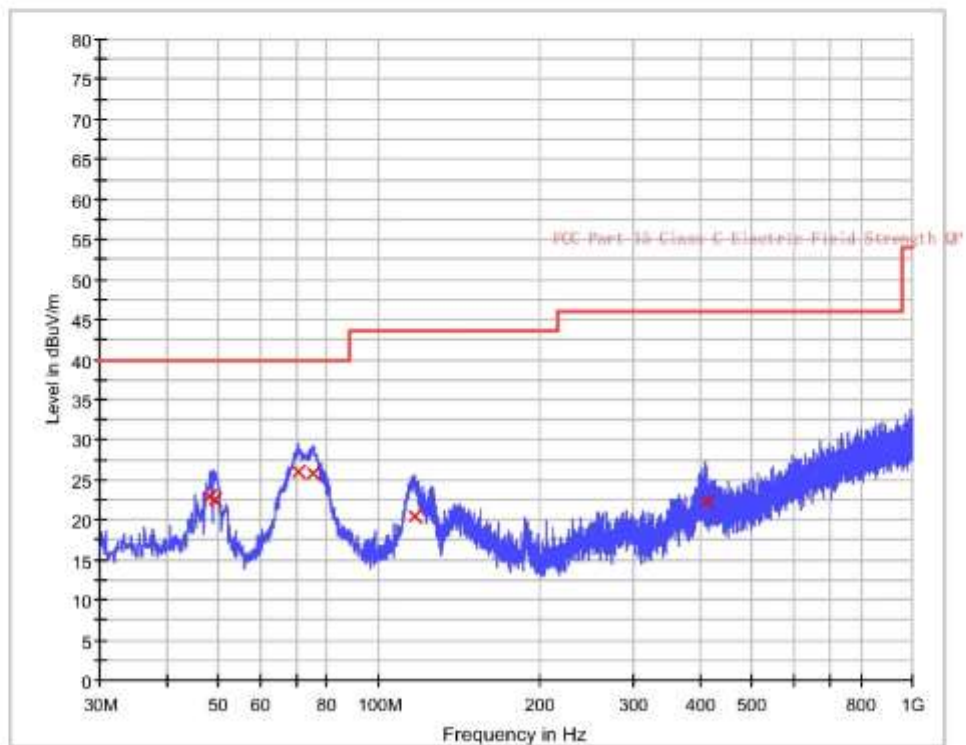
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang*

Reviewed by: *Judy Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
48.320000	23.0	1000.0	120.000	H	14.8	17.0	40.0	
49.400000	22.5	1000.0	120.000	H	14.5	17.5	40.0	
70.720000	26.0	1000.0	120.000	H	12.2	14.1	40.0	
75.600000	25.9	1000.0	120.000	H	11.9	14.1	40.0	
117.160000	20.5	1000.0	120.000	H	13.6	23.0	43.5	
411.920000	22.4	1000.0	120.000	H	19.1	23.6	46.0	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

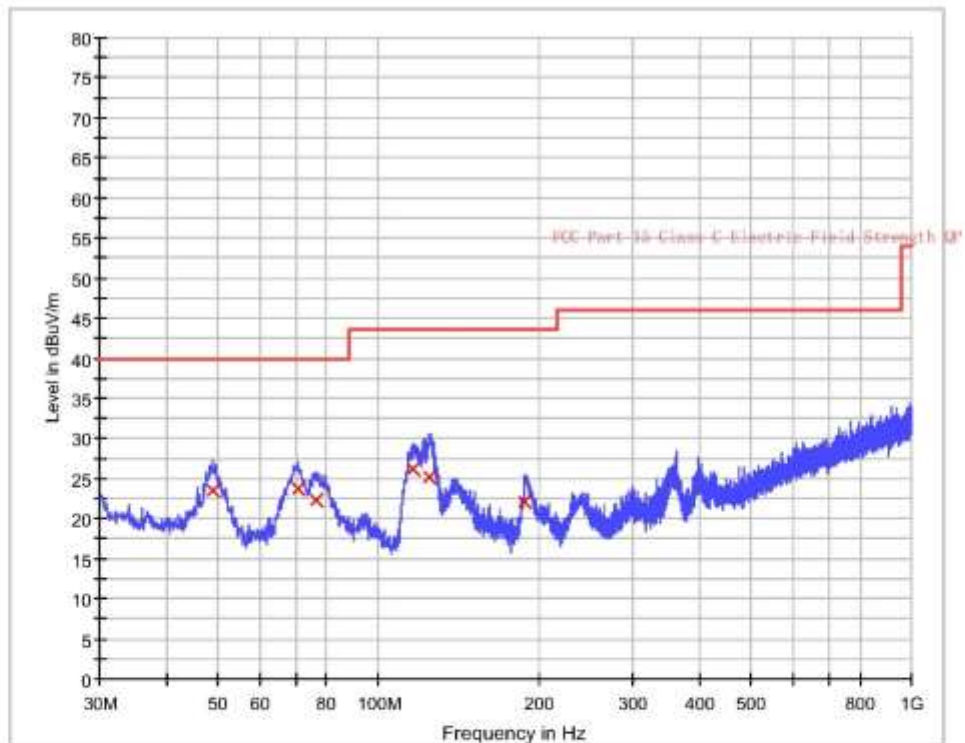
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESC1 3
Transducer:	VULB9168



Tested by: *Chris Liang*

Reviewed by: *Judy Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
48.920000	23.5	1000.0	120.000	V	14.6	16.5	40.0	
70.480000	23.7	1000.0	120.000	V	12.2	16.3	40.0	
76.200000	22.4	1000.0	120.000	V	11.8	17.6	40.0	
116.200000	26.1	1000.0	120.000	V	13.5	17.4	43.5	
124.920000	25.3	1000.0	120.000	V	14.0	18.3	43.5	
188.120000	22.2	1000.0	120.000	V	13.2	21.3	43.5	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

20191021

30MHz - 1GHz of BLE mode

TUV Rheinland (Guangdong) Ltd.

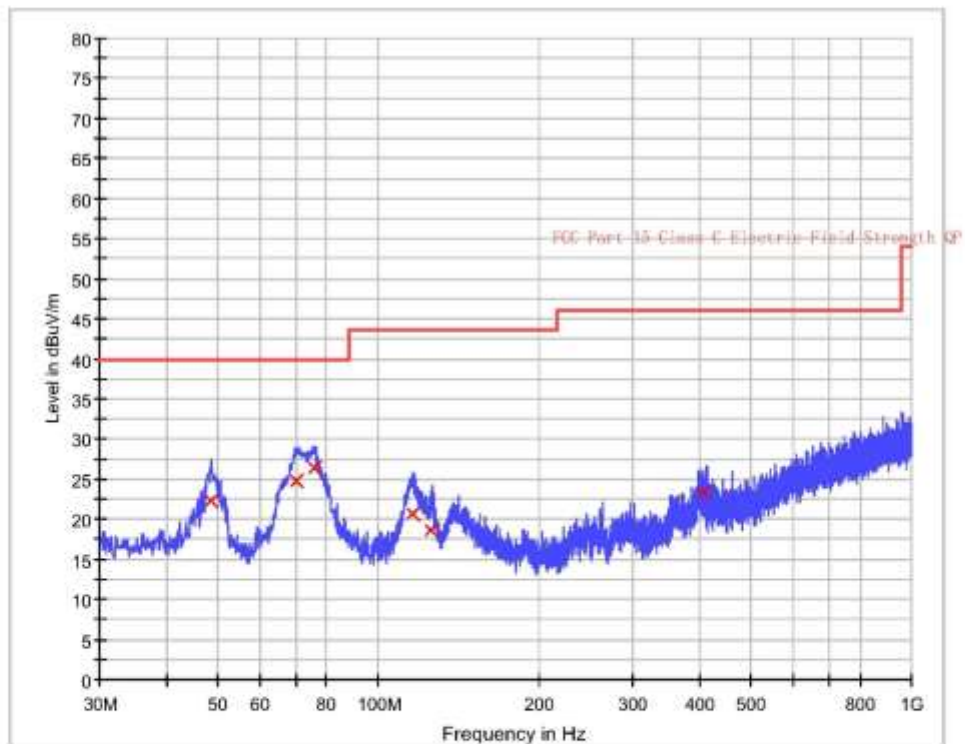
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESC13
Transducer:	VULB9168



Tested by: Chris Liang

Reviewed by: Judy Chen

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
48.680000	22.4	1000.0	120.000	H	14.7	17.6	40.0	
70.120000	24.8	1000.0	120.000	H	12.3	15.2	40.0	
76.080000	26.3	1000.0	120.000	H	11.8	13.7	40.0	
116.200000	20.6	1000.0	120.000	H	13.5	22.9	43.5	
125.200000	18.6	1000.0	120.000	H	14.0	24.9	43.5	
406.720000	23.2	1000.0	120.000	H	18.9	22.8	46.0	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

20191021

TUV Rheinland (Guangdong) Ltd.

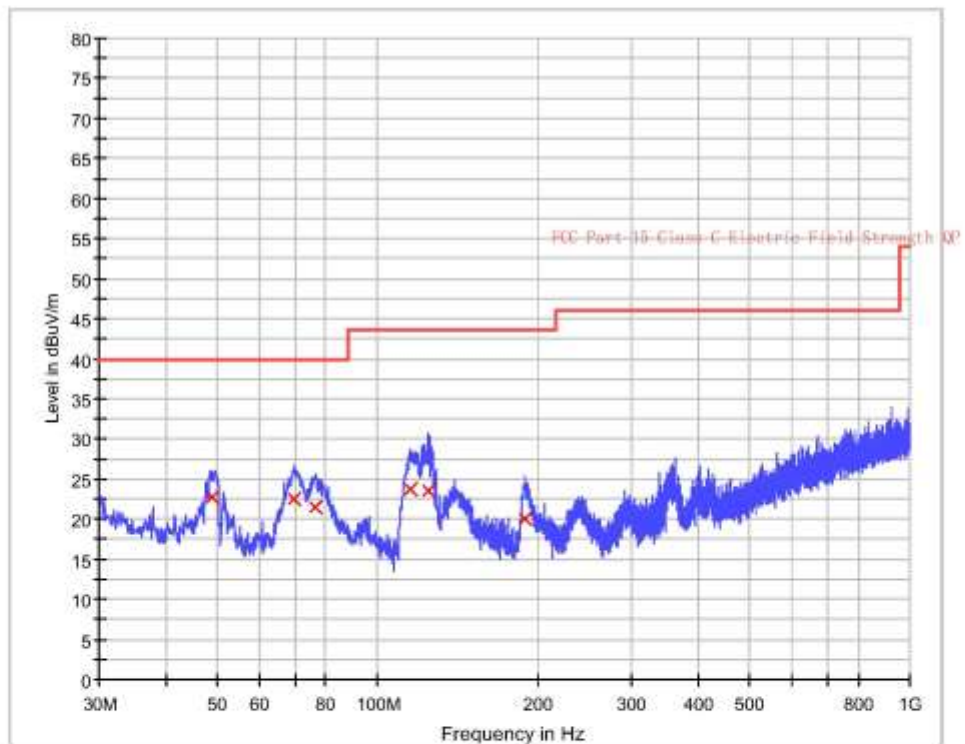
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chen*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
48.920000	22.6	1000.0	120.000	V	14.6	17.4	40.0	
69.880000	22.5	1000.0	120.000	V	12.3	17.5	40.0	
76.680000	21.4	1000.0	120.000	V	11.7	18.6	40.0	
115.600000	23.7	1000.0	120.000	V	13.5	19.8	43.5	
124.800000	23.5	1000.0	120.000	V	14.0	20.0	43.5	
189.680000	20.1	1000.0	120.000	V	13.1	23.4	43.5	

Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chen*

20191021

1GHz - 18GHz of BDR mode

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

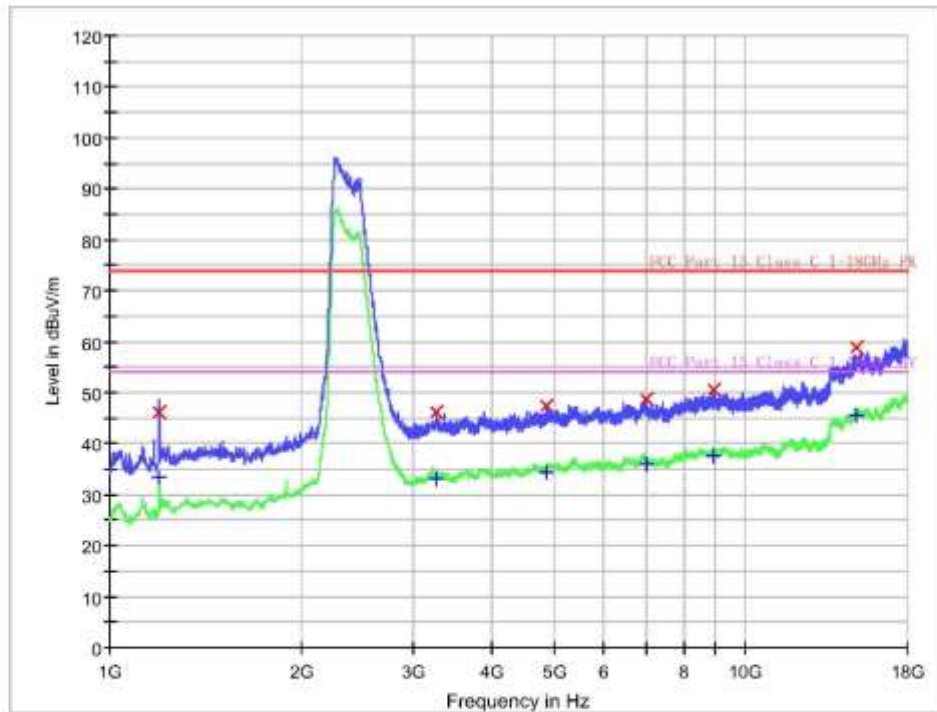
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-L)
Climate Condition:	20 ℃, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1198.000000	46.2	1000.0	1000.000	H	-15.6	27.8	74.0
3259.000000	46.3	1000.0	1000.000	H	-7.8	27.7	74.0
4878.000000	47.5	1000.0	1000.000	H	-4.5	26.5	74.0
7001.000000	48.8	1000.0	1000.000	H	-1.6	25.2	74.0
8943.000000	50.6	1000.0	1000.000	H	1.9	23.4	74.0
14991.000000	58.8	1000.0	1000.000	H	7.6	15.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1198.000000	33.3	1000.0	1000.000	H	-15.6	20.7	54.0
3259.000000	33.0	1000.0	1000.000	H	-7.8	21.1	54.0
4878.000000	34.3	1000.0	1000.000	H	-4.5	19.8	54.0
7001.000000	35.9	1000.0	1000.000	H	-1.6	18.1	54.0
8943.000000	37.5	1000.0	1000.000	H	1.9	16.5	54.0
14991.000000	45.5	1000.0	1000.000	H	7.6	8.5	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

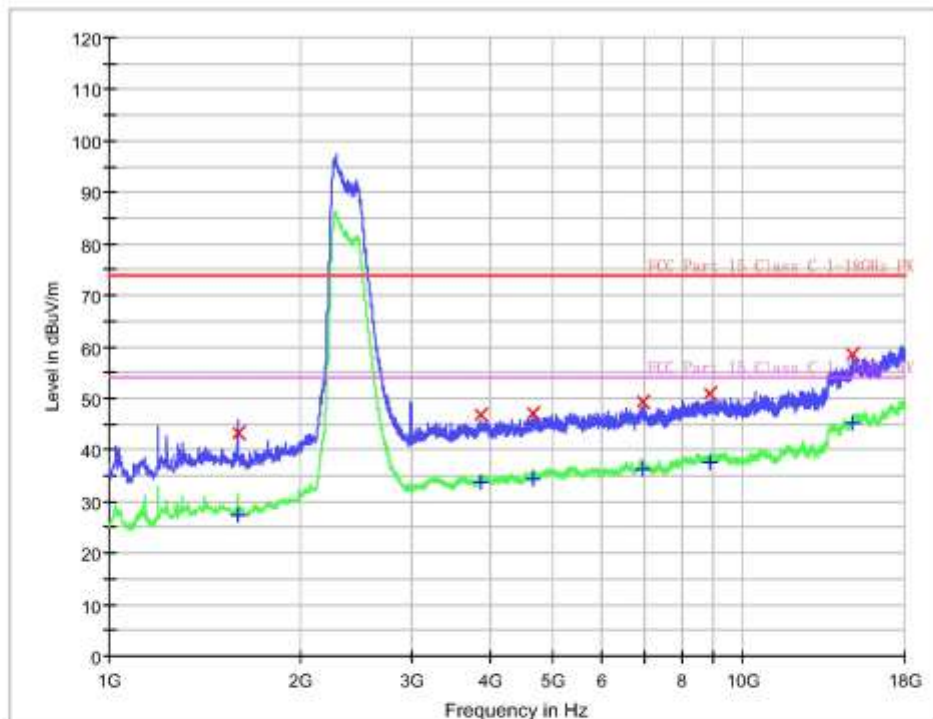
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1595.000000	43.2	1000.0	1000.000	V	-13.6	30.8	74.0
3862.000000	46.7	1000.0	1000.000	V	-6.3	27.3	74.0
4661.000000	47.2	1000.0	1000.000	V	-5.3	26.9	74.0
6933.000000	49.5	1000.0	1000.000	V	-1.7	24.5	74.0
8882.000000	50.8	1000.0	1000.000	V	1.9	23.2	74.0
14921.000000	58.5	1000.0	1000.000	V	7.1	15.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1595.000000	27.4	1000.0	1000.000	V	-13.6	26.6	54.0
3862.000000	33.8	1000.0	1000.000	V	-6.3	20.2	54.0
4661.000000	34.5	1000.0	1000.000	V	-5.3	19.5	54.0
6933.000000	36.2	1000.0	1000.000	V	-1.7	17.9	54.0
8882.000000	37.6	1000.0	1000.000	V	1.9	16.4	54.0
14921.000000	45.4	1000.0	1000.000	V	7.1	8.7	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

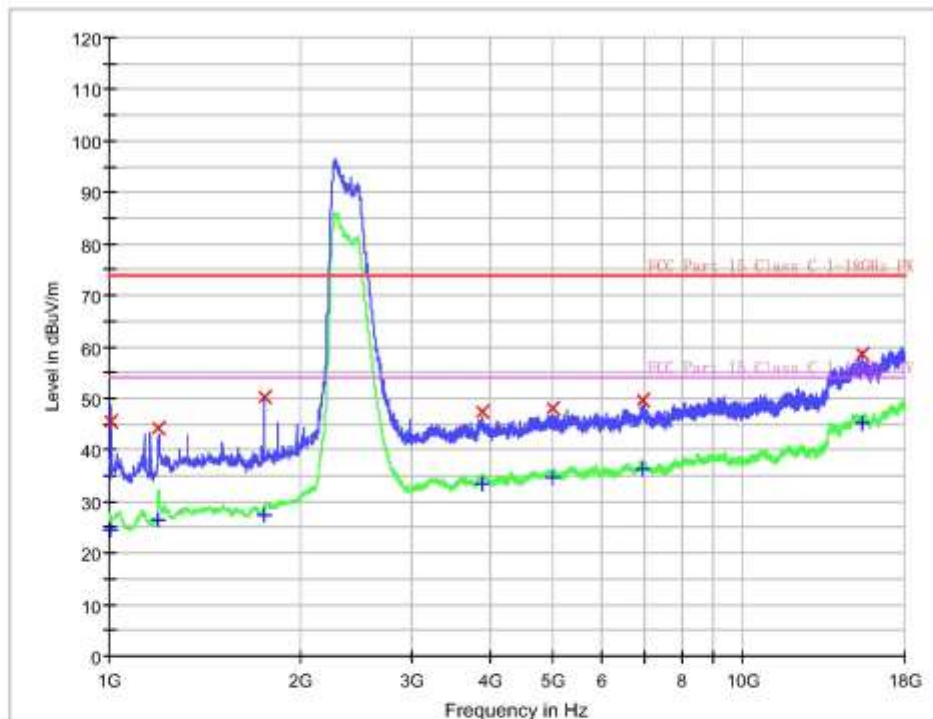
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1008.000000	45.4	1000.0	1000.000	H	-16.7	28.6	74.0
1198.000000	44.2	1000.0	1000.000	H	-15.6	29.8	74.0
1759.000000	50.3	1000.0	1000.000	H	-12.6	23.7	74.0
3890.000000	47.4	1000.0	1000.000	H	-6.4	26.7	74.0
5012.000000	47.9	1000.0	1000.000	H	-4.6	26.1	74.0
6944.000000	49.7	1000.0	1000.000	H	-1.7	24.3	74.0
15382.000000	58.5	1000.0	1000.000	H	7.5	15.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1008.000000	24.4	1000.0	1000.000	H	-16.7	29.6	54.0
1198.000000	26.4	1000.0	1000.000	H	-15.6	27.6	54.0
1759.000000	27.4	1000.0	1000.000	H	-12.6	26.6	54.0
3890.000000	33.6	1000.0	1000.000	H	-6.4	20.4	54.0
5012.000000	34.6	1000.0	1000.000	H	-4.6	19.4	54.0
6944.000000	36.3	1000.0	1000.000	H	-1.7	17.7	54.0
15382.000000	45.1	1000.0	1000.000	H	7.5	8.9	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chan*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

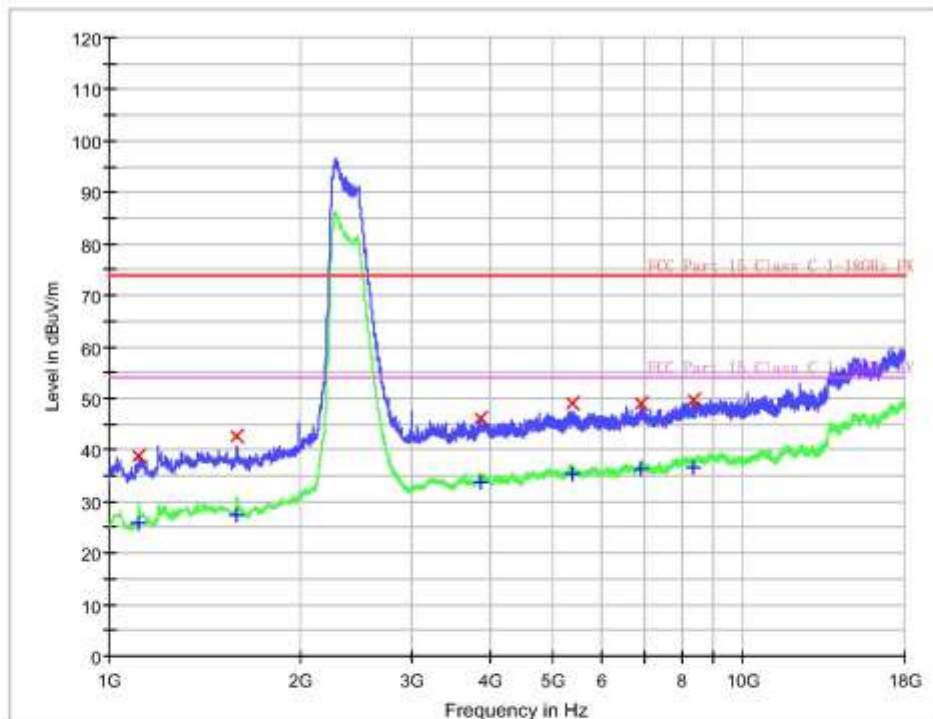
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1115.000000	38.8	1000.0	1000.000	V	-16.1	35.2	74.0
1593.000000	42.8	1000.0	1000.000	V	-13.7	31.2	74.0
3867.000000	46.3	1000.0	1000.000	V	-6.4	27.7	74.0
5388.000000	49.1	1000.0	1000.000	V	-3.8	24.9	74.0
6918.000000	48.9	1000.0	1000.000	V	-1.8	25.1	74.0
8369.000000	49.6	1000.0	1000.000	V	1.4	24.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1115.000000	25.6	1000.0	1000.000	V	-16.1	28.4	54.0
1593.000000	27.3	1000.0	1000.000	V	-13.7	26.7	54.0
3867.000000	33.7	1000.0	1000.000	V	-6.4	20.3	54.0
5388.000000	35.2	1000.0	1000.000	V	-3.8	18.8	54.0
6918.000000	36.2	1000.0	1000.000	V	-1.8	17.8	54.0
8369.000000	36.5	1000.0	1000.000	V	1.4	17.5	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

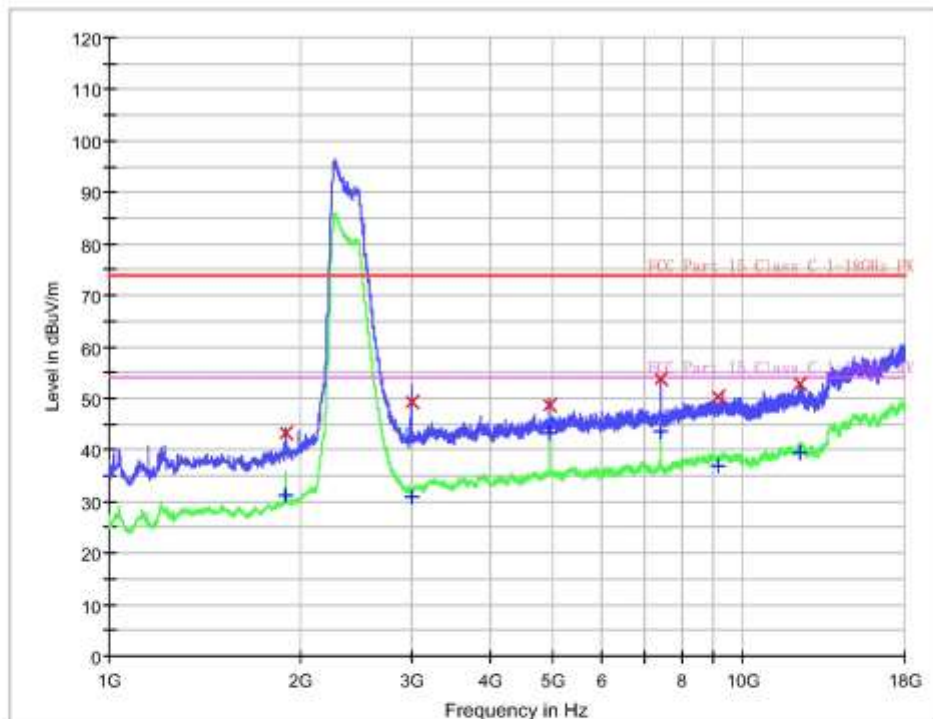
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Comment
1899.000000	43.2	1000.0	1000.000	H	-11.8	30.9	74.0	
2997.000000	49.3	1000.0	1000.000	H	-8.8	24.7	74.0	
4944.000000	48.8	1000.0	1000.000	H	-4.6	25.2	74.0	
7415.000000	53.8	1000.0	1000.000	H	-1.0	20.2	74.0	
9111.000000	50.4	1000.0	1000.000	H	1.7	23.6	74.0	
12267.000000	52.9	1000.0	1000.000	H	5.2	21.1	74.0	

Limit and Margin AV

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Comment
1899.000000	43.2	1000.0	1000.000	H	-11.8	22.7	54.0	
2997.000000	49.3	1000.0	1000.000	H	-8.8	23.1	54.0	
4944.000000	48.8	1000.0	1000.000	H	-4.6	10.8	54.0	
7415.000000	53.8	1000.0	1000.000	H	-1.0	10.4	54.0	
9111.000000	50.4	1000.0	1000.000	H	1.7	17.0	54.0	
12267.000000	52.9	1000.0	1000.000	H	5.2	14.5	54.0	

Tested by: *Chris Liang*

Reviewed by: *Jacky Chan*

20191015

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

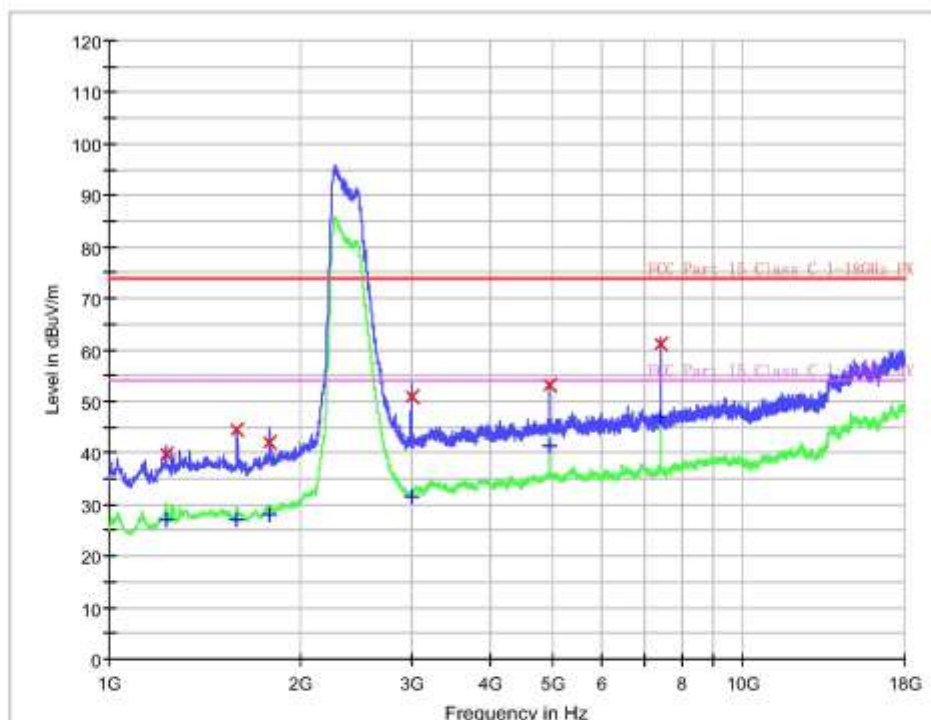
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BR-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1229.000000	39.9	1000.0	1000.000	V	-15.5	34.1	74.0
1593.000000	44.6	1000.0	1000.000	V	-13.7	29.4	74.0
1795.000000	41.9	1000.0	1000.000	V	-12.3	32.1	74.0
3000.000000	51.1	1000.0	1000.000	V	-8.8	22.9	74.0
4944.000000	53.1	1000.0	1000.000	V	-4.6	20.9	74.0
7415.000000	61.1	1000.0	1000.000	V	-1.0	12.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1899.000000	27.1	1000.0	1000.000	V	26.9	22.7	54.0
2997.000000	27.1	1000.0	1000.000	V	26.9	23.1	54.0
4944.000000	28.0	1000.0	1000.000	V	26.0	10.8	54.0
7415.000000	31.5	1000.0	1000.000	V	12.5	10.4	54.0
9111.000000	41.4	1000.0	1000.000	V	12.6	17.0	54.0
12267.000000	47.0	1000.0	1000.000	V	7.0	14.5	54.0

Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

1GHz - 18GHz of EDR mode

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

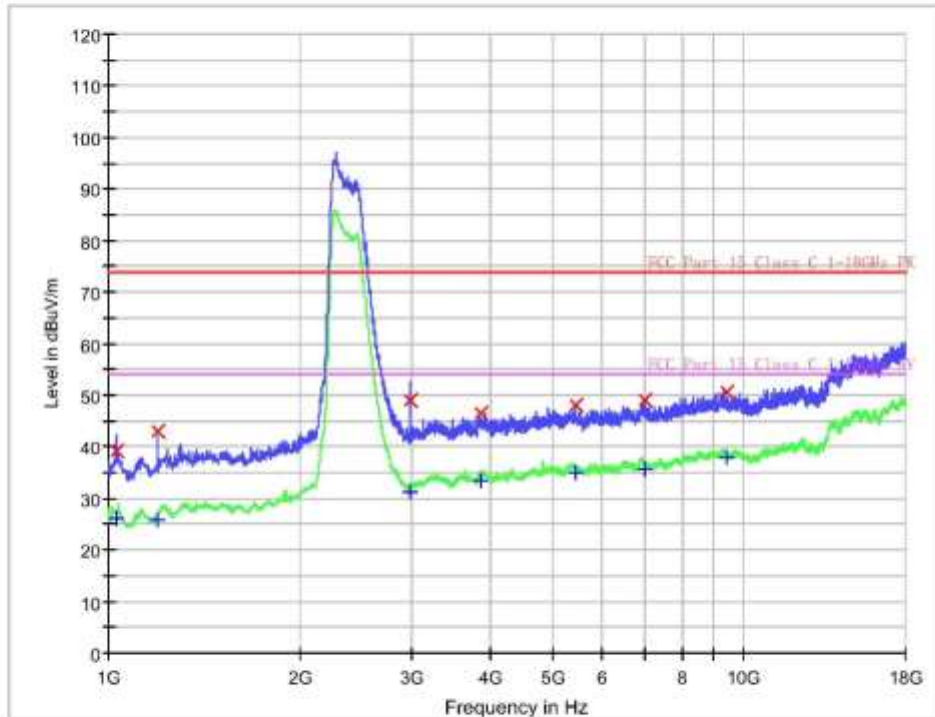
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

20191015

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1028.000000	39.3	1000.0	1000.000	H	-16.7	34.7	74.0
1195.000000	42.9	1000.0	1000.000	H	-15.7	31.1	74.0
2991.000000	49.1	1000.0	1000.000	H	-8.8	25.0	74.0
3847.000000	46.5	1000.0	1000.000	H	-6.1	27.5	74.0
5452.000000	48.0	1000.0	1000.000	H	-3.8	26.0	74.0
6973.000000	49.0	1000.0	1000.000	H	-1.5	25.0	74.0
9402.000000	50.7	1000.0	1000.000	H	2.5	23.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1028.000000	26.0	1000.0	1000.000	H	-16.7	28.0	54.0
1195.000000	25.8	1000.0	1000.000	H	-15.7	28.2	54.0
2991.000000	31.1	1000.0	1000.000	H	-8.8	22.9	54.0
3847.000000	33.5	1000.0	1000.000	H	-6.1	20.5	54.0
5452.000000	34.9	1000.0	1000.000	H	-3.8	19.1	54.0
6973.000000	35.7	1000.0	1000.000	H	-1.5	18.3	54.0
9402.000000	37.9	1000.0	1000.000	H	2.5	16.1	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chan*

20191015

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

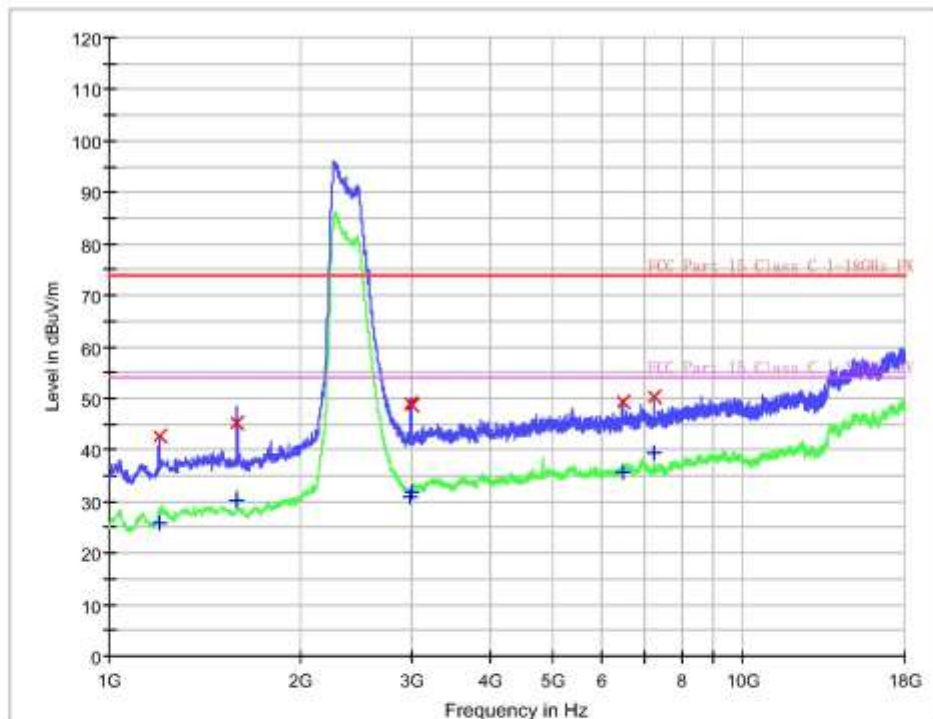
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1200.000000	42.8	1000.0	1000.000	V	-15.6	31.2	74.0
1593.000000	45.3	1000.0	1000.000	V	-13.7	28.7	74.0
2987.000000	48.9	1000.0	1000.000	V	-8.8	25.1	74.0
3000.000000	48.8	1000.0	1000.000	V	-8.8	25.2	74.0
6478.000000	49.2	1000.0	1000.000	V	-2.9	24.8	74.0
7237.000000	50.2	1000.0	1000.000	V	-1.1	23.8	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1200.000000	25.9	1000.0	1000.000	V	-15.6	28.1	54.0
1593.000000	30.2	1000.0	1000.000	V	-13.7	23.8	54.0
2987.000000	31.0	1000.0	1000.000	V	-8.8	23.0	54.0
3000.000000	31.8	1000.0	1000.000	V	-8.8	22.2	54.0
6478.000000	35.6	1000.0	1000.000	V	-2.9	18.4	54.0
7237.000000	39.4	1000.0	1000.000	V	-1.1	14.6	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

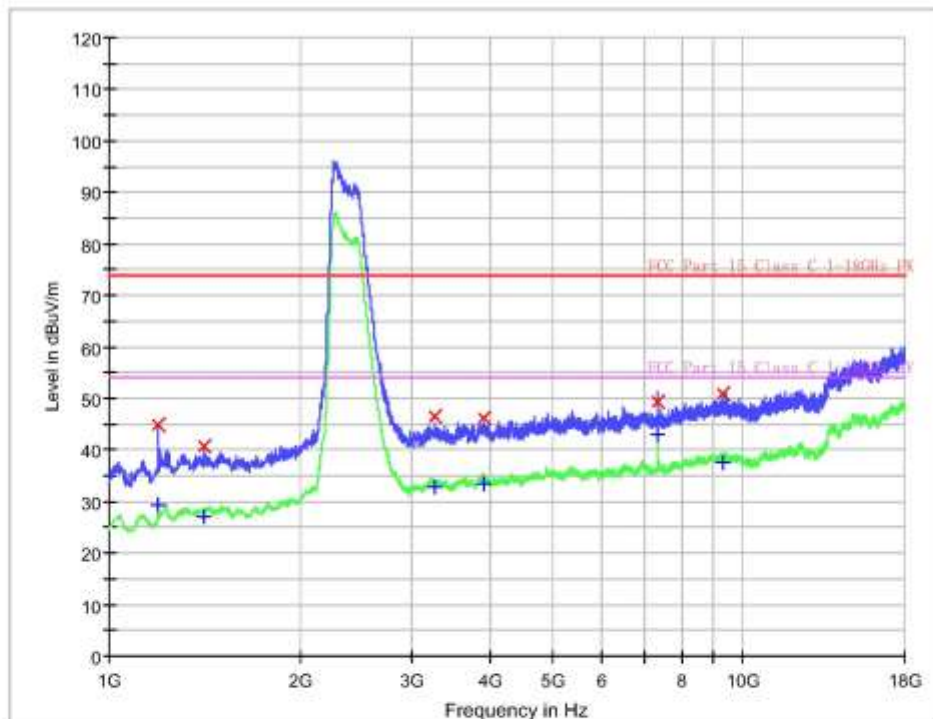
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1195.000000	45.0	1000.0	1000.000	H	-15.7	29.1	74.0
1412.000000	40.8	1000.0	1000.000	H	-14.9	33.2	74.0
3267.000000	46.6	1000.0	1000.000	H	-7.7	27.5	74.0
3903.000000	46.0	1000.0	1000.000	H	-6.3	28.0	74.0
7326.000000	49.3	1000.0	1000.000	H	-1.3	24.7	74.0
9294.000000	50.9	1000.0	1000.000	H	2.2	23.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1195.000000	29.4	1000.0	1000.000	H	-15.7	24.6	54.0
1412.000000	27.2	1000.0	1000.000	H	-14.9	26.9	54.0
3267.000000	32.9	1000.0	1000.000	H	-7.7	21.1	54.0
3903.000000	33.4	1000.0	1000.000	H	-6.3	20.6	54.0
7326.000000	43.0	1000.0	1000.000	H	-1.3	11.0	54.0
9294.000000	37.7	1000.0	1000.000	H	2.2	16.3	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

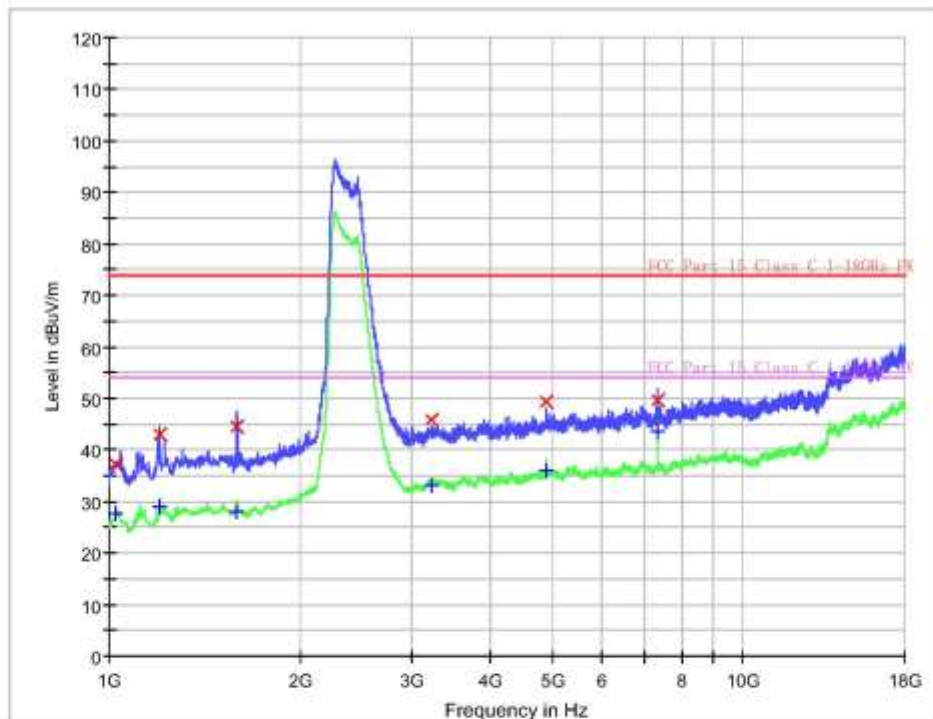
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1023.000000	37.4	1000.0	1000.000	V	-16.7	36.6	74.0
1200.000000	43.0	1000.0	1000.000	V	-15.6	31.0	74.0
1593.000000	44.5	1000.0	1000.000	V	-13.7	29.5	74.0
3223.000000	46.0	1000.0	1000.000	V	-8.0	28.0	74.0
4884.000000	49.4	1000.0	1000.000	V	-4.4	24.6	74.0
7326.000000	49.7	1000.0	1000.000	V	-1.3	24.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1023.000000	27.6	1000.0	1000.000	V	-16.7	26.4	54.0
1200.000000	28.8	1000.0	1000.000	V	-15.6	25.2	54.0
1593.000000	28.0	1000.0	1000.000	V	-13.7	26.0	54.0
3223.000000	33.0	1000.0	1000.000	V	-8.0	21.0	54.0
4884.000000	35.8	1000.0	1000.000	V	-4.4	18.2	54.0
7326.000000	43.5	1000.0	1000.000	V	-1.3	10.5	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

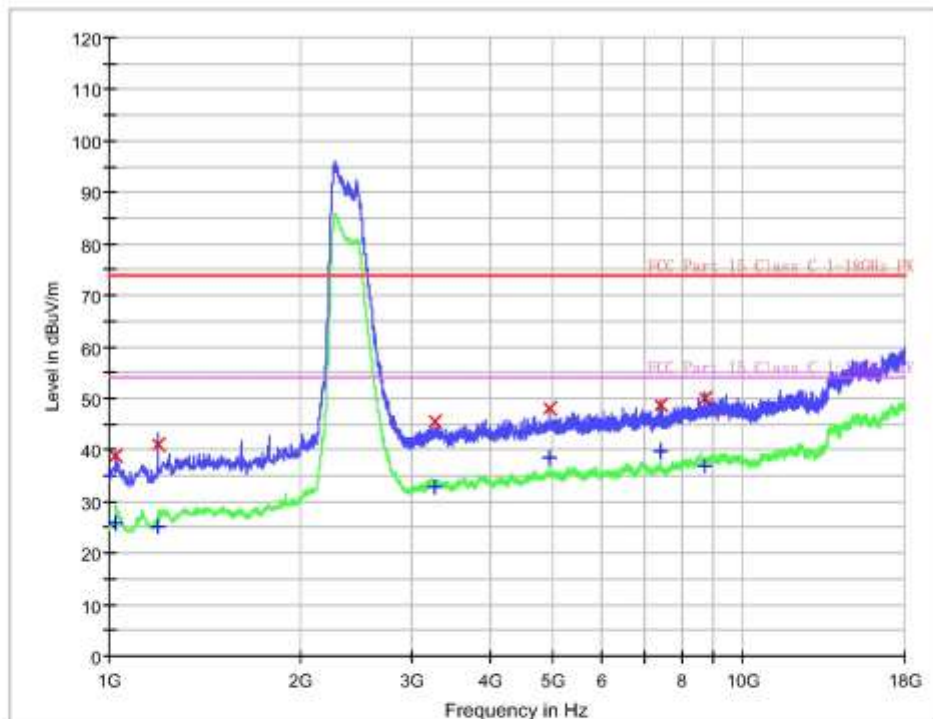
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

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Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1025.000000	39.0	1000.0	1000.000	H	-16.7	35.0	74.0
1195.000000	40.9	1000.0	1000.000	H	-15.7	33.1	74.0
3274.000000	45.5	1000.0	1000.000	H	-7.8	28.5	74.0
4944.000000	48.0	1000.0	1000.000	H	-4.6	26.0	74.0
7415.000000	48.6	1000.0	1000.000	H	-1.0	25.4	74.0
8737.000000	50.0	1000.0	1000.000	H	1.5	24.0	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1025.000000	25.9	1000.0	1000.000	H	-16.7	28.2	54.0
1195.000000	25.3	1000.0	1000.000	H	-15.7	28.7	54.0
3274.000000	32.8	1000.0	1000.000	H	-7.8	21.2	54.0
4944.000000	38.6	1000.0	1000.000	H	-4.6	15.4	54.0
7415.000000	39.7	1000.0	1000.000	H	-1.0	14.3	54.0
8737.000000	37.1	1000.0	1000.000	H	1.5	17.0	54.0

Tested by: *Chris Liang*

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Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

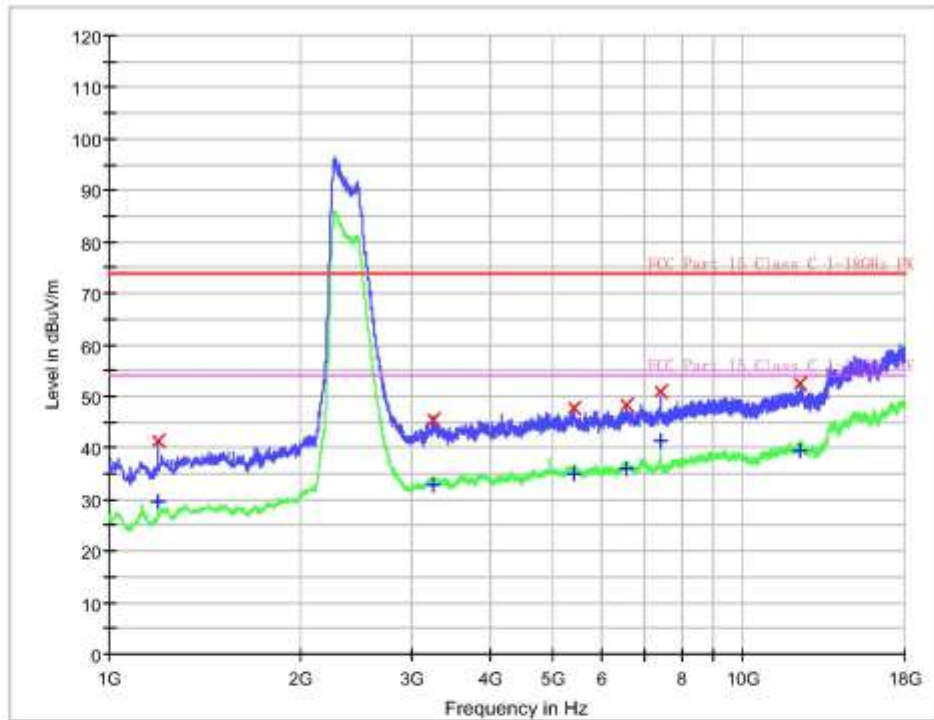
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(EDR-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1195.000000	41.5	1000.0	1000.000	V	-15.7	32.5	74.0
3242.000000	45.5	1000.0	1000.000	V	-7.9	28.5	74.0
5416.000000	47.9	1000.0	1000.000	V	-3.7	26.2	74.0
6555.000000	48.3	1000.0	1000.000	V	-2.6	25.7	74.0
7415.000000	50.8	1000.0	1000.000	V	-1.0	23.2	74.0
12330.000000	52.6	1000.0	1000.000	V	5.2	21.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1195.000000	29.7	1000.0	1000.000	V	-15.7	24.3	54.0
3242.000000	32.8	1000.0	1000.000	V	-7.9	21.2	54.0
5416.000000	35.1	1000.0	1000.000	V	-3.7	18.9	54.0
6555.000000	35.9	1000.0	1000.000	V	-2.6	18.1	54.0
7415.000000	41.3	1000.0	1000.000	V	-1.0	12.7	54.0
12330.000000	39.5	1000.0	1000.000	V	5.2	14.5	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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1GHz - 18GHz of BLE mode

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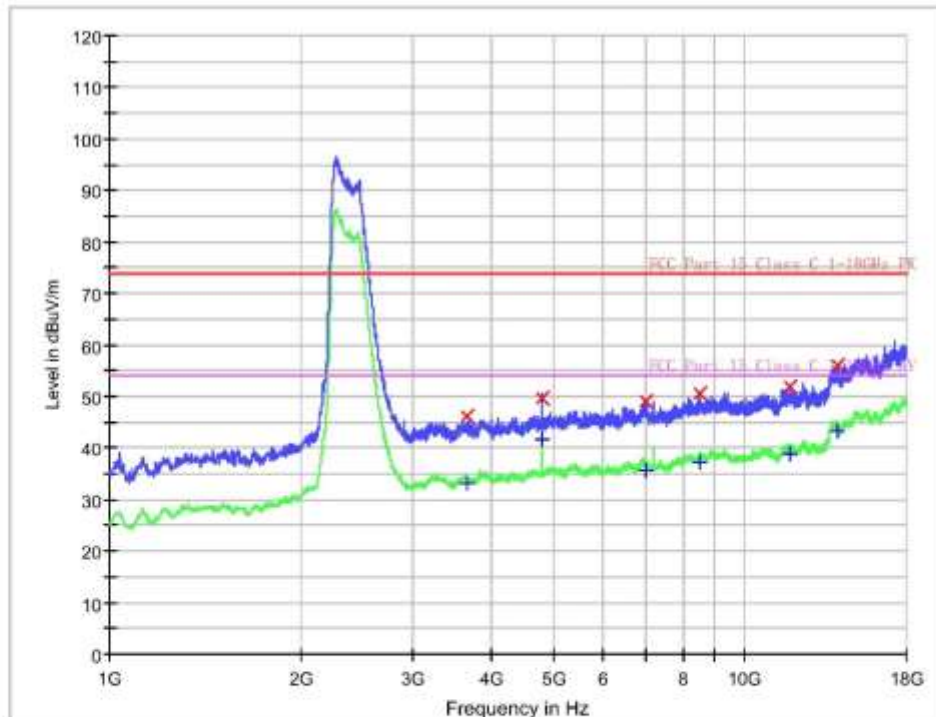
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_ERE011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3658.000000	46.2	1000.0	1000.000	H	-7.0	27.8	74.0
4804.000000	49.8	1000.0	1000.000	H	-4.7	24.2	74.0
6973.000000	48.9	1000.0	1000.000	H	-1.5	25.1	74.0
8525.000000	50.5	1000.0	1000.000	H	1.7	23.5	74.0
11799.000000	51.8	1000.0	1000.000	H	5.2	22.2	74.0
13999.000000	56.1	1000.0	1000.000	H	5.9	17.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3658.000000	33.2	1000.0	1000.000	H	-7.0	20.8	54.0
4804.000000	41.6	1000.0	1000.000	H	-4.7	12.4	54.0
6973.000000	35.8	1000.0	1000.000	H	-1.5	18.3	54.0
8525.000000	37.4	1000.0	1000.000	H	1.7	16.6	54.0
11799.000000	38.9	1000.0	1000.000	H	5.2	15.2	54.0
13999.000000	43.4	1000.0	1000.000	H	5.9	10.7	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

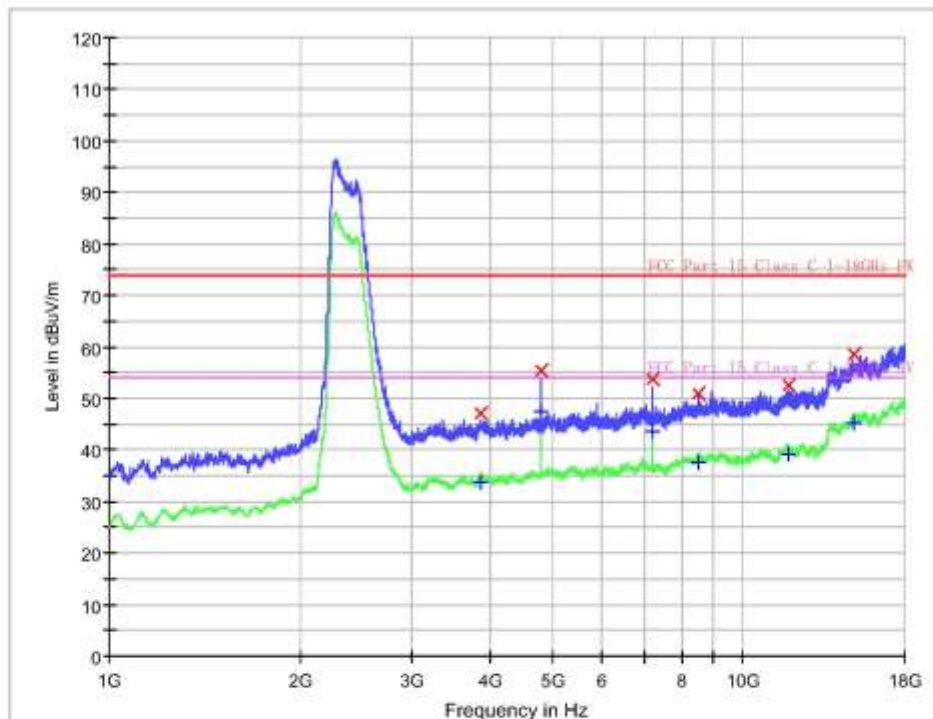
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3854.000000	47.0	1000.0	1000.000	V	-6.2	27.0	74.0
4804.000000	55.5	1000.0	1000.000	V	-4.7	18.6	74.0
7205.000000	53.9	1000.0	1000.000	V	-1.1	20.2	74.0
8488.000000	51.0	1000.0	1000.000	V	1.9	23.0	74.0
11808.000000	52.5	1000.0	1000.000	V	5.1	21.5	74.0
15012.000000	58.6	1000.0	1000.000	V	7.6	15.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3854.000000	33.8	1000.0	1000.000	V	-6.2	20.2	54.0
4804.000000	47.6	1000.0	1000.000	V	-4.7	6.5	54.0
7205.000000	43.6	1000.0	1000.000	V	-1.1	10.4	54.0
8488.000000	37.6	1000.0	1000.000	V	1.9	16.4	54.0
11808.000000	39.0	1000.0	1000.000	V	5.1	15.0	54.0
15012.000000	45.3	1000.0	1000.000	V	7.6	8.7	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

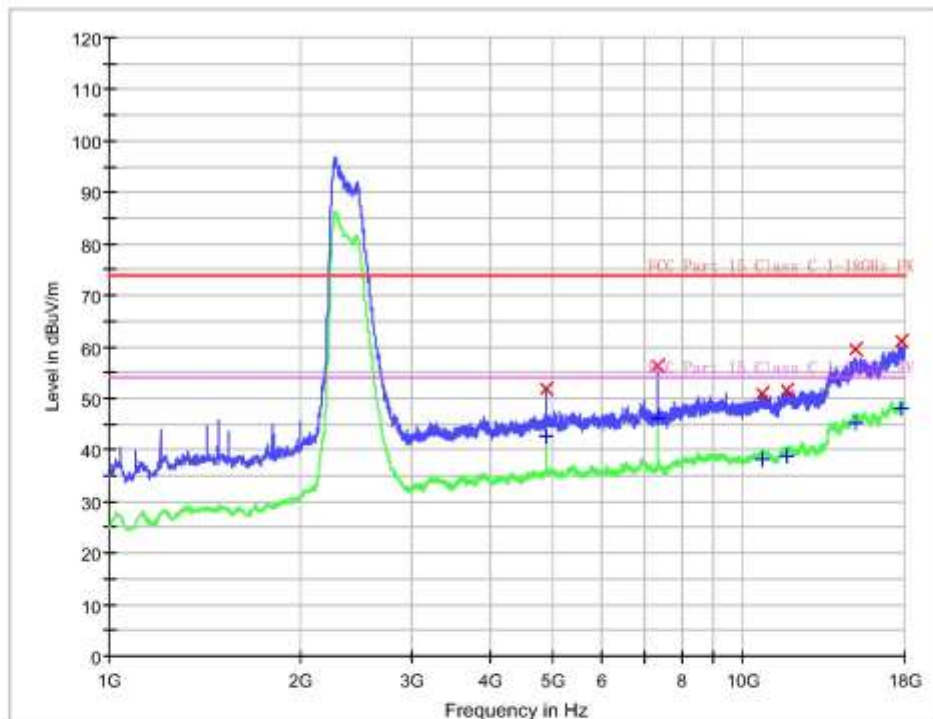
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
4884.000000	51.9	1000.0	1000.000	H	-4.4	22.1	74.0
7326.000000	56.3	1000.0	1000.000	H	-1.3	17.7	74.0
10724.000000	51.0	1000.0	1000.000	H	4.3	23.0	74.0
11731.000000	51.5	1000.0	1000.000	H	5.0	22.5	74.0
15059.000000	59.4	1000.0	1000.000	H	7.6	14.6	74.0
17770.000000	61.0	1000.0	1000.000	H	11.4	13.0	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4884.000000	42.8	1000.0	1000.000	H	-4.4	11.2	54.0
7326.000000	46.2	1000.0	1000.000	H	-1.3	7.8	54.0
10724.000000	38.3	1000.0	1000.000	H	4.3	15.7	54.0
11731.000000	38.9	1000.0	1000.000	H	5.0	15.1	54.0
15059.000000	45.3	1000.0	1000.000	H	7.6	8.7	54.0
17770.000000	48.1	1000.0	1000.000	H	11.4	6.0	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

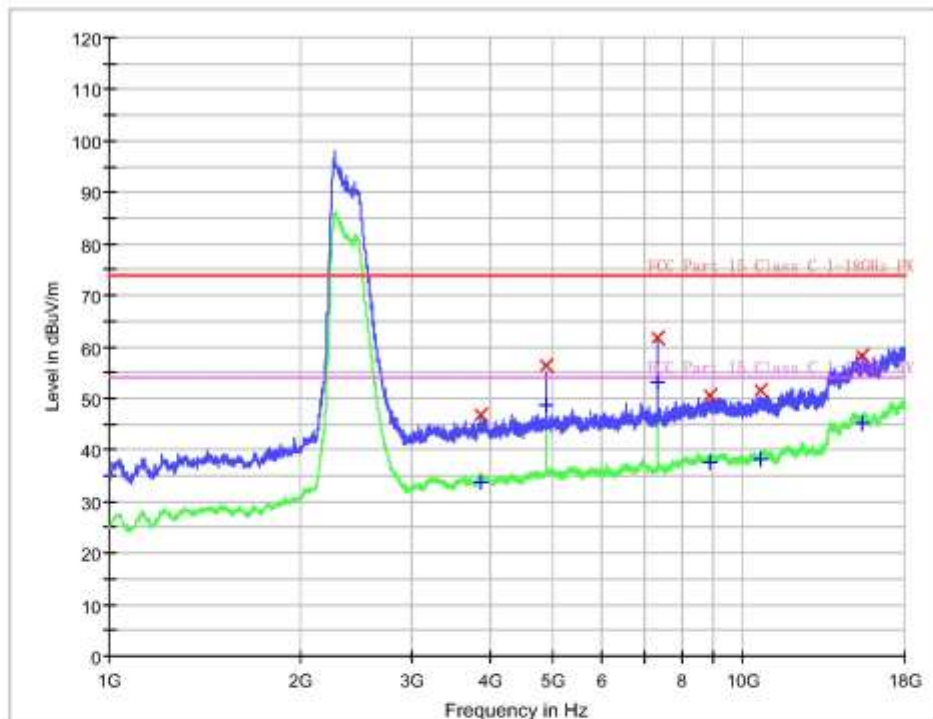
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

20191015

Reviewed by: *Jacky Chan*

20191021

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3850.000000	46.9	1000.0	1000.000	V	-6.2	27.1	74.0
4884.000000	56.3	1000.0	1000.000	V	-4.4	17.7	74.0
7326.000000	61.7	1000.0	1000.000	V	-1.3	12.3	74.0
8888.000000	50.5	1000.0	1000.000	V	1.9	23.5	74.0
10639.000000	51.6	1000.0	1000.000	V	4.1	22.4	74.0
15456.000000	58.1	1000.0	1000.000	V	7.9	15.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3850.000000	33.6	1000.0	1000.000	V	-6.2	20.4	54.0
4884.000000	48.8	1000.0	1000.000	V	-4.4	5.2	54.0
7326.000000	53.0	1000.0	1000.000	V	-1.3	1.0	54.0
8888.000000	37.7	1000.0	1000.000	V	1.9	16.3	54.0
10639.000000	38.2	1000.0	1000.000	V	4.1	15.8	54.0
15456.000000	45.2	1000.0	1000.000	V	7.9	8.8	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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EMC Test Service Hotline: +86-20-28391188

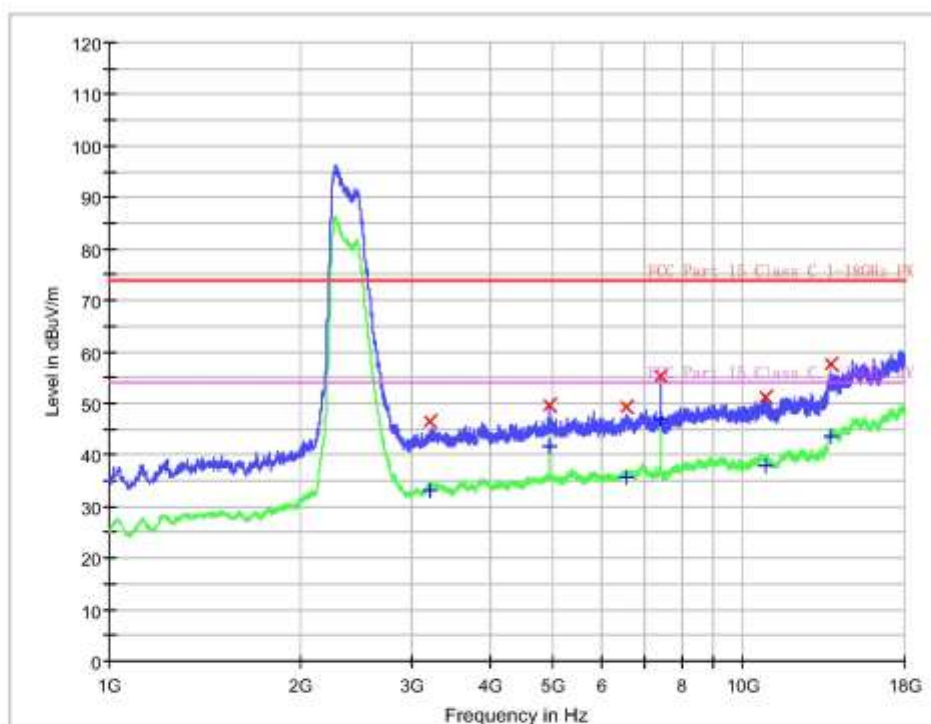
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

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Reviewed by: *Jacky Chan*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3214.000000	46.4	1000.0	1000.000	H	-8.1	27.6	74.0
4944.000000	49.6	1000.0	1000.000	H	-4.6	24.4	74.0
6536.000000	49.3	1000.0	1000.000	H	-2.7	24.7	74.0
7415.000000	55.3	1000.0	1000.000	H	-1.0	18.7	74.0
10830.000000	51.2	1000.0	1000.000	H	4.0	22.8	74.0
13799.000000	57.6	1000.0	1000.000	H	5.1	16.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3214.000000	33.0	1000.0	1000.000	H	-8.1	21.0	54.0
4944.000000	41.8	1000.0	1000.000	H	-4.6	12.2	54.0
6536.000000	35.7	1000.0	1000.000	H	-2.7	18.3	54.0
7415.000000	47.0	1000.0	1000.000	H	-1.0	7.0	54.0
10830.000000	38.0	1000.0	1000.000	H	4.0	16.0	54.0
13799.000000	43.5	1000.0	1000.000	H	5.1	10.5	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chen*

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EMC Test Service Hotline: +86-20-28391188

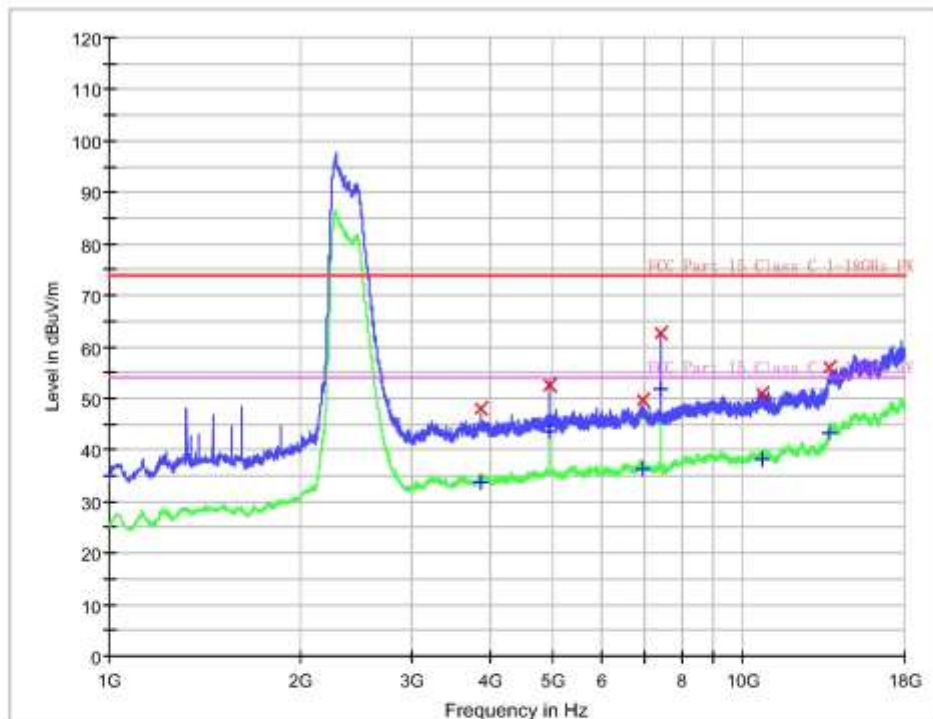
EMC Test Record (Emission)

Common Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(BLE-H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	AC 120V/60Hz
Receipt No:	170109889
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Chris Liang*

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Reviewed by: *Jacky Chan*

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EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3858.000000	47.9	1000.0	1000.000	V	-6.2	26.1	74.0
4942.000000	52.6	1000.0	1000.000	V	-4.6	21.4	74.0
6935.000000	49.8	1000.0	1000.000	V	-1.7	24.2	74.0
7415.000000	62.6	1000.0	1000.000	V	-1.0	11.4	74.0
10735.000000	51.1	1000.0	1000.000	V	4.3	23.0	74.0
13729.000000	56.2	1000.0	1000.000	V	4.8	17.8	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3858.000000	33.8	1000.0	1000.000	V	-6.2	20.2	54.0
4942.000000	43.6	1000.0	1000.000	V	-4.6	10.4	54.0
6935.000000	36.2	1000.0	1000.000	V	-1.7	17.9	54.0
7415.000000	51.7	1000.0	1000.000	V	-1.0	2.3	54.0
10735.000000	38.2	1000.0	1000.000	V	4.3	15.8	54.0
13729.000000	43.3	1000.0	1000.000	V	4.8	10.8	54.0

Tested by: *Chris Liang*

Reviewed by: *Jacky Chan*

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Appendix B.10: Test Results of Conducted Emission on AC Mains

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EMC Test Service Hotline: +86-20-28391188

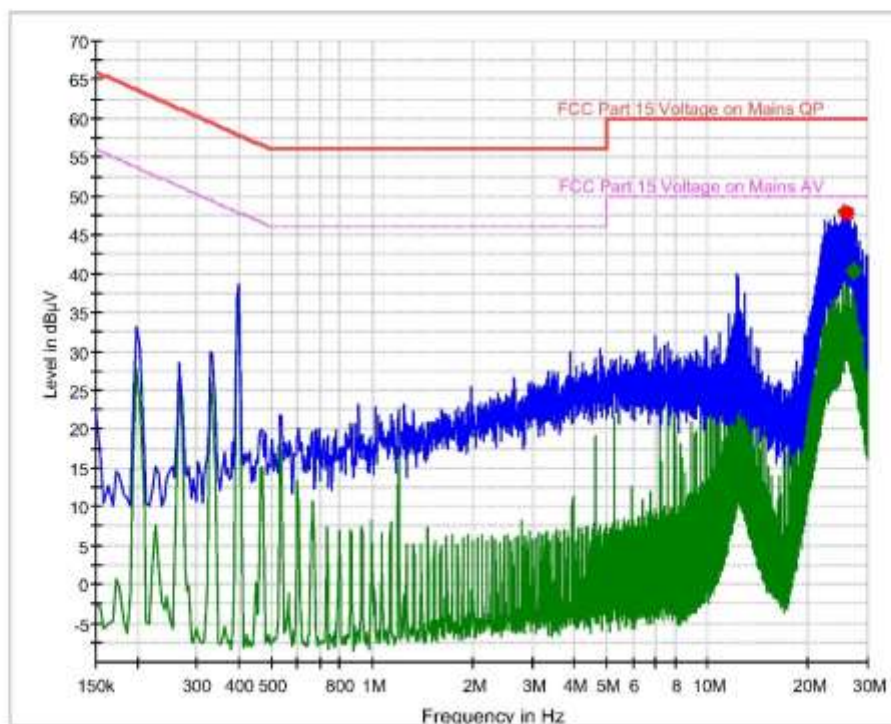
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Seikaku
Test Item:	Speaker
Identification:	CURV500S
Test Standard:	FCC Part 15
Test Detail:	Conducted Emission
Operation Mode:	A
Climate Condition:	21 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.:	AC 120 V / 60 Hz
Port / Line:	AC Mains
Receipt No.:	170109889
Report No.:	/
Result:	Pass
Comment:	/

Hardware Setup:	1phase LISN ENV216 to ESCI 3
Level Unit:	dB μ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCI 3



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Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
25.566000	42.62	---	60.00	17.39	1000.	9.000	L1	OFF	10.4
25.633500	42.47	---	60.00	17.53	1000.	9.000	L1	OFF	10.4
25.768500	43.35	---	60.00	16.65	1000.	9.000	L1	OFF	10.4
25.795500	---	31.01	50.00	18.99	1000.	9.000	N	OFF	10.4
25.903500	43.25	---	60.00	16.75	1000.	9.000	L1	OFF	10.4
25.966500	42.59	---	60.00	17.41	1000.	9.000	L1	OFF	10.4
25.984500	---	32.93	50.00	17.07	1000.	9.000	N	OFF	10.4
26.223000	39.61	---	60.00	20.39	1000.	9.000	N	OFF	10.4
26.457000	---	33.31	50.00	16.69	1000.	9.000	N	OFF	10.4
27.127500	---	40.32	50.00	9.68	1000.	9.000	L1	OFF	10.4
27.582000	---	30.25	50.00	19.75	1000.	9.000	N	OFF	10.5
27.780000	---	31.45	50.00	18.55	1000.	9.000	N	OFF	10.5

Tested by: *Chris Liang* Reviewed by: *Jacky Chen*

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