

Appendix B: Test Results of General 2.4GHz

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Appendix B.1: Measurement Equipment List

Old ID	Equip.	Description	Model	Manufacturer	Inte. (mon)	Due Date DD.MM.YYYY
1.807	1813832	EMI Test Receiver	ESCI	Rohde & Schwarz	12	14.03.2020
1.805	1813829	FSP30 Spectrum Analyzer	FSP30	Rohde & Schwarz	12	22.08.2019
1.921B	1814142	Trilog Broadband Antenna	VULB9168(6dB)	SCHWARZBECK	24	20.09.2019
1.822	1813850	Loop Antenna	HFH2-Z2	Rohde & Schwarz	24	15.03.2021
1.819C	1814068	Pre-Amplifier	A44-00101800-25-10P-	MITEQ	12	08.05.2020
1.819A	1813846	Band Reject Filter	BRM50702	Micro-Tronics	24	04.07.2020
1.848	1813884	Highpass Filter	HPM50115-03	Micro-Tronics	24	15.03.2021
1.808	1813833	Horn Antenna	3160-09	EMCO	60	19.01.2024
1.808A	1813834	Pre-Amplifier	A33-18002650-30-8P-4	MITEQ	24	20.07.2019
1.666	1813697	SAC	N/A	Albatross Project	36	27.11.2021
3.647	1822646	Stable Power Supply	APS-11010GG	APS	12	21.07.2019
1.844	1813877	Automatic Voltage Regulator	AFR-345	Allpower	12	26.04.2020
3.648	1822647	Frequency Invertor	CIF-5000A	IDRC	12	21.07.2019
1.886	1813943	Two-Line V-Network	ENV216	Rohde & Schwarz	12	11.06.2019
1.887	1813944	EMI Test Receiver	ESCI	Rohde & Schwarz	12	15.03.2020
1.913	1814012	Shielding Room	9x4x3.4	Changzhou Yuanping	60	06.12.2020
3.769	1814017	Regulated power supply	APS-33045TT	APS	12	21.07.2019
3.765	1814004	Frequency Invertor	APW-1100N	APE	12	21.07.2019
3.770	1814018	Regulated power supply	APS-11020	APS	12	21.07.2019

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics.

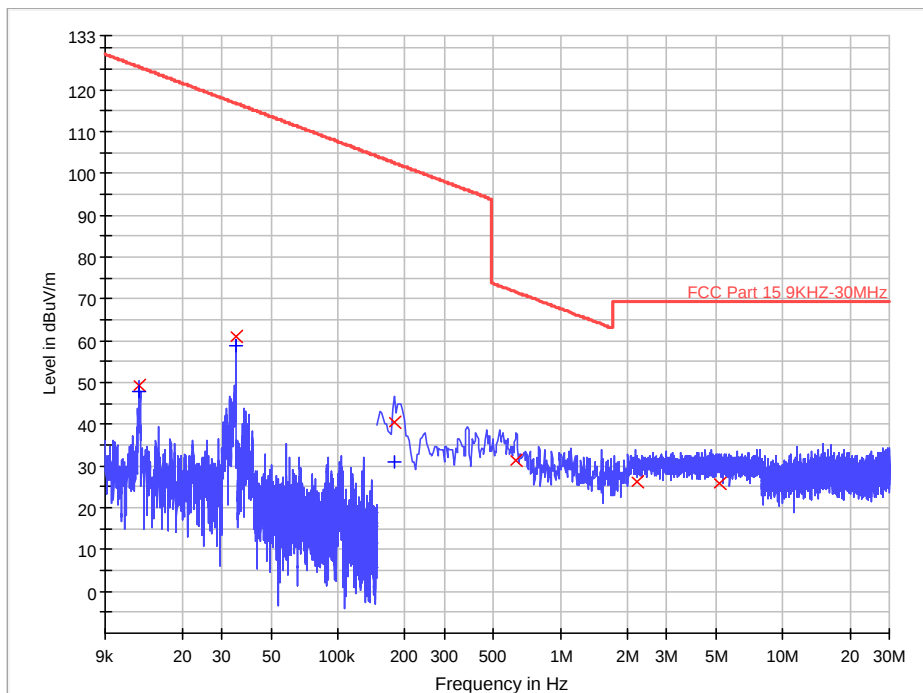
Appendix B.2: Fundamental & Harmonics Radiated Emission

9kHz-30MHz

Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Mid)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m;

Subrange 1
Frequency range: 9K-30MHz
Receiver: ESCI 3
Transducer: HFH2-Z2



Limit and Margin

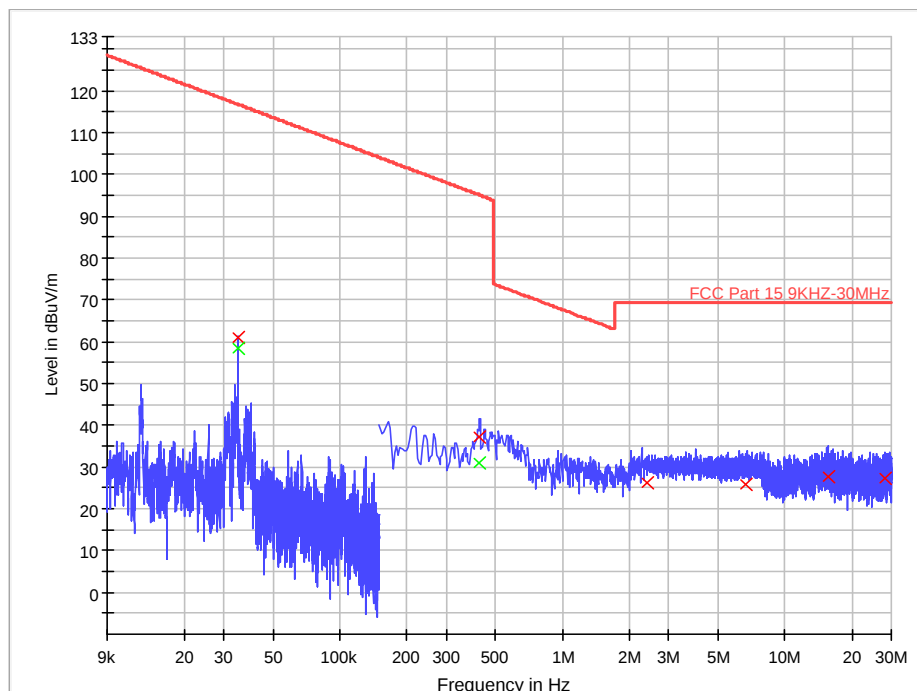
Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin (dB)	Limit - (dBuV/m)
0.012800	---	47.6	1000.0	0.200	22.5	77.8	125.4
0.034900	---	58.6	1000.0	0.200	22.6	58.1	116.7
0.180000	---	30.9	1000.0	9.000	20.8	71.6	102.5
0.635000	31.5	---	1000.0	9.000	20.5	40.1	71.6
2.198000	26.2	---	1000.0	9.000	21.4	43.3	69.5
5.195000	25.7	---	1000.0	9.000	21.6	43.8	69.5

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Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Receiver(Mid)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m;

Subrange 1
Frequency range: 9K-30MHz
Receiver: ESCI 3
Transducer: HFH2-Z2



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin (dB)	Limit - (dBuV/m)
0.034900	---	58.6	1000.0	0.200	22.6	58.2	116.8
0.422000	---	31.0	1000.0	9.000	20.3	64.1	95.1
2.389000	26.4	---	1000.0	9.000	21.4	43.1	69.5
6.702000	26.0	---	1000.0	9.000	21.5	43.5	69.5
15.709000	27.6	---	1000.0	9.000	22.5	41.9	69.5
27.937000	27.2	---	1000.0	9.000	22.9	42.3	69.5

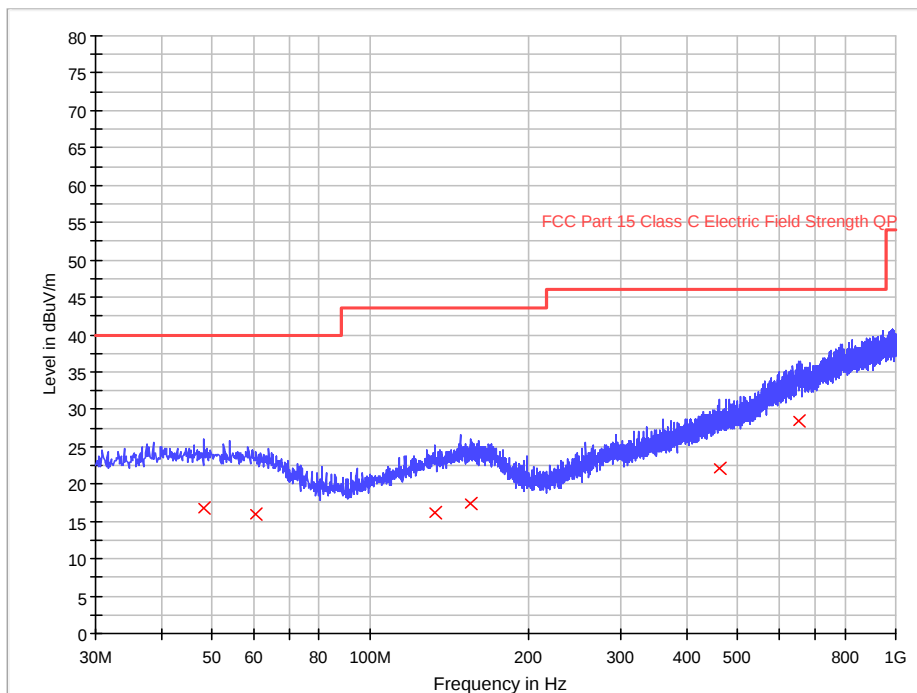
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30MHz - 1GHz

Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Middle)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; Horizontal

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



Limit and Margin

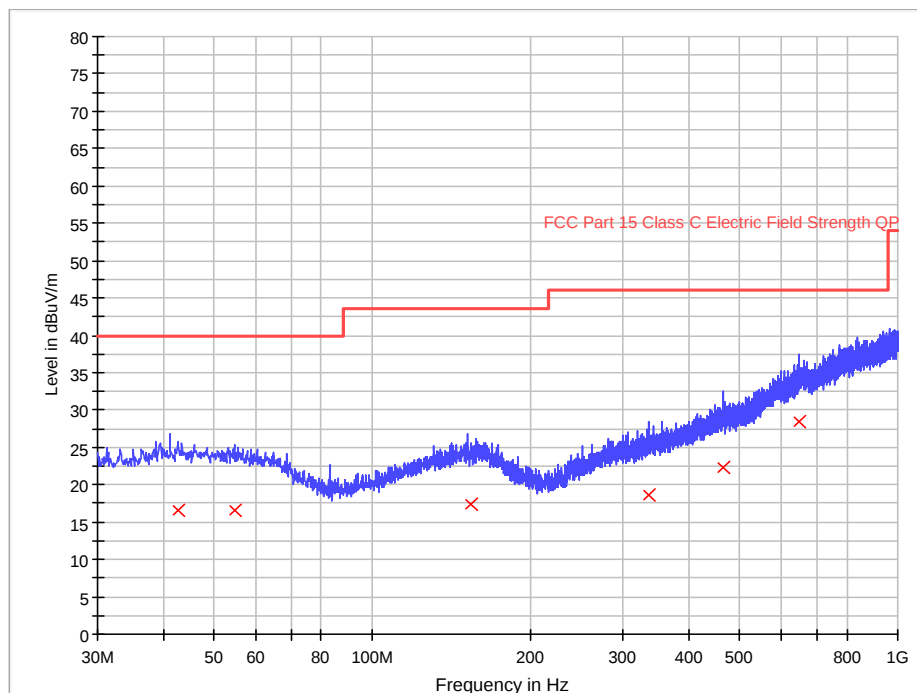
Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
48.200000	16.9	1000.0	120.000	H	20.6	23.1	40.0	
60.680000	16.0	1000.0	120.000	H	19.8	24.0	40.0	
133.080000	16.3	1000.0	120.000	H	20.1	27.3	43.5	
155.000000	17.3	1000.0	120.000	H	21.3	26.2	43.5	
462.600000	22.1	1000.0	120.000	H	26.0	23.9	46.0	
655.280000	28.4	1000.0	120.000	H	31.5	17.6	46.0	

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Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Middle)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; Vertical

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



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
42.600000	16.6	1000.0	120.000	V	20.5	23.4	40.0	
54.600000	16.6	1000.0	120.000	V	20.3	23.4	40.0	
153.920000	17.4	1000.0	120.000	V	21.3	26.1	43.5	
336.280000	18.6	1000.0	120.000	V	22.7	27.4	46.0	
465.880000	22.2	1000.0	120.000	V	26.1	23.8	46.0	
649.480000	28.5	1000.0	120.000	V	31.6	17.5	46.0	

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1GHz - 18GHz

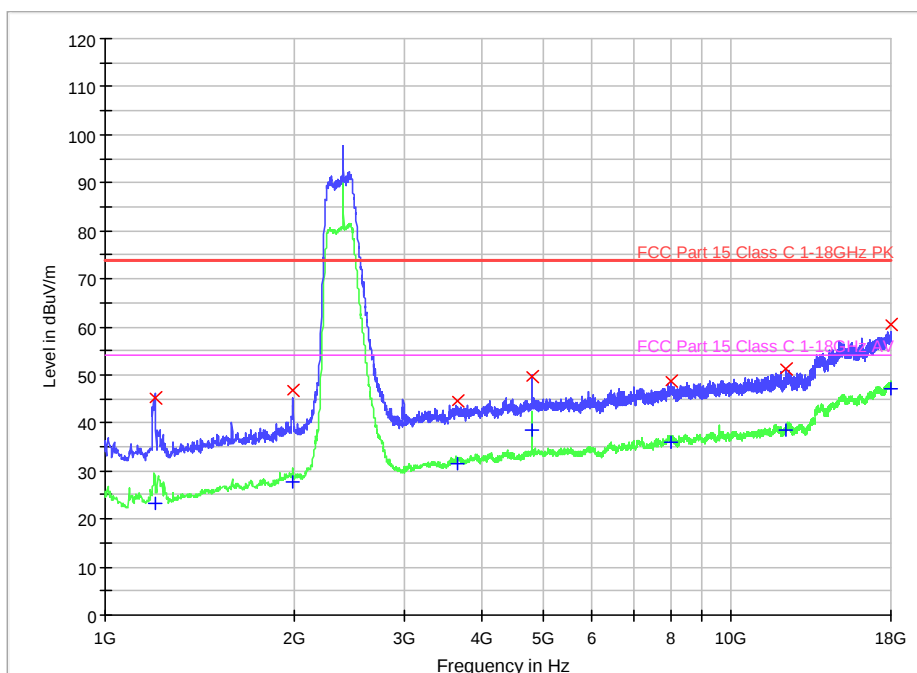
Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Low)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; 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



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	45.1	1000.0	1000.000	H	-15.6	28.9	74.0
1992.000000	46.9	1000.0	1000.000	H	-10.8	27.2	74.0
3646.000000	44.6	1000.0	1000.000	H	-6.9	29.5	74.0
4802.000000	49.7	1000.0	1000.000	H	-4.7	24.3	74.0
8002.000000	48.9	1000.0	1000.000	H	0.3	25.2	74.0
12260.000000	51.4	1000.0	1000.000	H	5.1	22.6	74.0
17957.000000	60.5	1000.0	1000.000	H	11.5	13.5	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)
1200.000000	23.3	1000.0	1000.000	H	-15.6	30.7	54.0
1992.000000	27.8	1000.0	1000.000	H	-10.8	26.2	54.0
3646.000000	31.6	1000.0	1000.000	H	-6.9	22.4	54.0
4802.000000	38.4	1000.0	1000.000	H	-4.7	15.6	54.0
8002.000000	35.9	1000.0	1000.000	H	0.3	18.1	54.0
12260.000000	38.5	1000.0	1000.000	H	5.1	15.5	54.0
17957.000000	47.0	1000.0	1000.000	H	11.5	7.0	54.0

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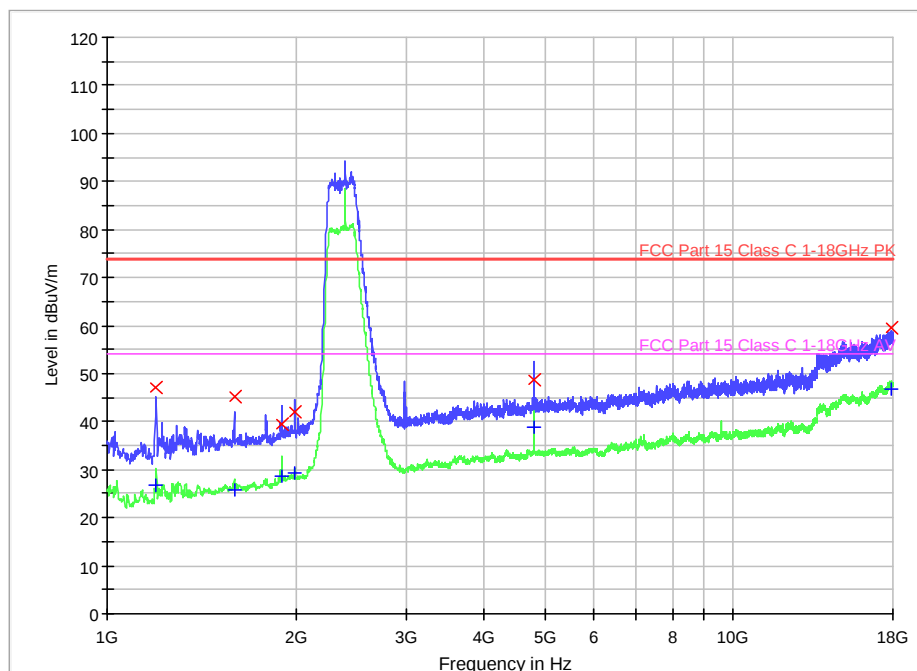
Common Information

Manufacturer:	Kingston
Test Item:	HyperX Cloud Flight S Wireless Headset
Identification:	CLOUD FLIGHT S
Test Standard:	FCC Part 15C/RSS-247
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(Low)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	Powered by internal battery
Result:	Pass
Comment:	Test distance is 3m; 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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1198.000000	47.1	26.7	1000.0	1000.000	V	-15.6	26.9	74.0
1595.000000	45.3	25.9	1000.0	1000.000	V	-13.6	28.7	74.0
1899.000000	39.6	28.5	1000.0	1000.000	V	-11.8	34.4	74.0
1994.000000	42.0	29.2	1000.0	1000.000	V	-10.7	32.0	74.0
4802.000000	48.8	38.8	1000.0	1000.000	V	-4.7	25.2	74.0
17900.000000	59.5	46.8	1000.0	1000.000	V	11.2	14.5	74.0

Limit and Margin AV

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1198.000000	47.1	26.7	1000.0	1000.000	V	-15.6	27.3	54.0
1595.000000	45.3	25.9	1000.0	1000.000	V	-13.6	28.1	54.0
1899.000000	39.6	28.5	1000.0	1000.000	V	-11.8	25.5	54.0
1994.000000	42.0	29.2	1000.0	1000.000	V	-10.7	24.8	54.0
4802.000000	48.8	38.8	1000.0	1000.000	V	-4.7	15.2	54.0
17900.000000	59.5	46.8	1000.0	1000.000	V	11.2	7.3	54.0

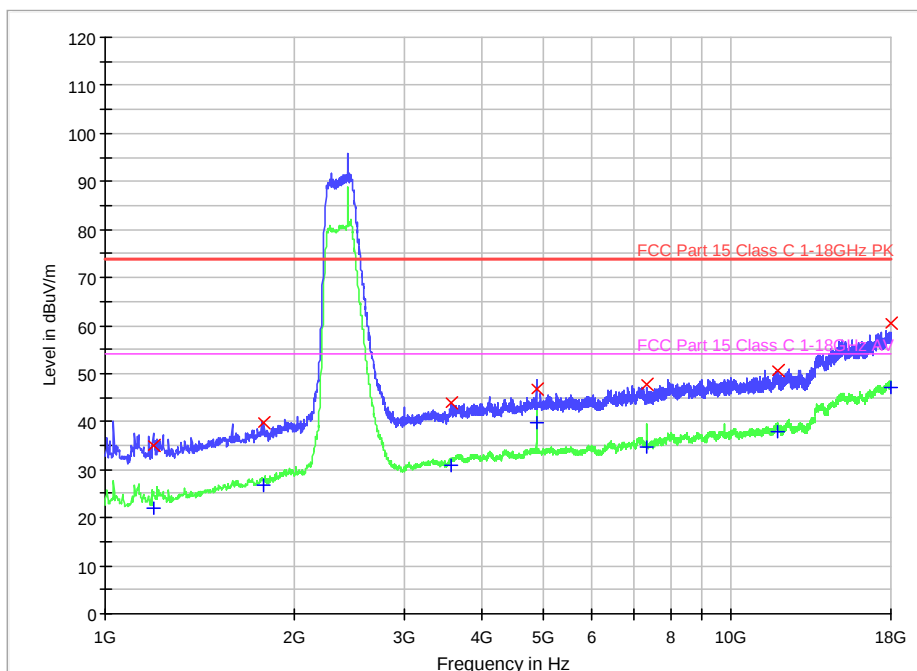
Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Middle)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; 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



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)
1193.000000	35.0	1000.0	1000.000	H	-15.7	39.0	74.0
1793.000000	39.9	1000.0	1000.000	H	-12.3	34.1	74.0
3563.000000	43.8	1000.0	1000.000	H	-7.3	30.2	74.0
4882.000000	46.7	1000.0	1000.000	H	-4.4	27.3	74.0
7324.000000	47.9	1000.0	1000.000	H	-1.3	26.1	74.0
11854.000000	50.7	1000.0	1000.000	H	4.8	23.3	74.0
17960.000000	60.5	1000.0	1000.000	H	11.6	13.5	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)
1193.000000	22.0	1000.0	1000.000	H	-15.7	32.0	54.0
1793.000000	26.9	1000.0	1000.000	H	-12.3	27.1	54.0
3563.000000	30.9	1000.0	1000.000	H	-7.3	23.1	54.0
4882.000000	39.6	1000.0	1000.000	H	-4.4	14.4	54.0
7324.000000	34.8	1000.0	1000.000	H	-1.3	19.2	54.0
11854.000000	37.9	1000.0	1000.000	H	4.8	16.1	54.0
17960.000000	47.0	1000.0	1000.000	H	11.6	7.0	54.0

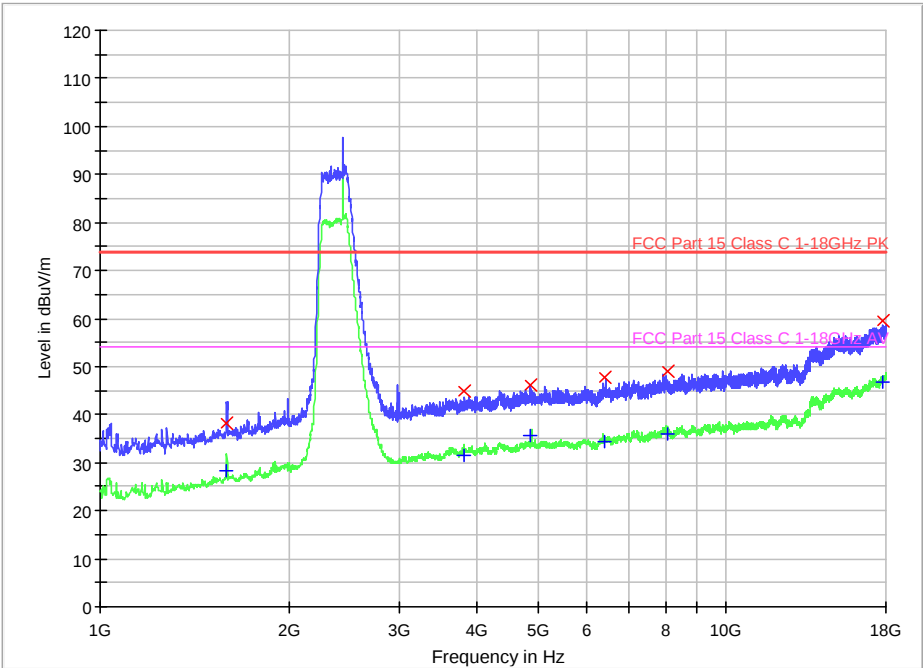
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Common Information

Manufacturer: Kingston
 Test Item: HyperX Cloud Flight S Wireless Headset
 Identification: CLOUD FLIGHT S
 Test Standard: FCC Part 15C/RSS-247
 Test Detail: Radiated Emission
 Operation Mode: Transmitting(Middle)
 Climate Condition: 20 °C, 50 %, 100 k Pa
 Test Voltage/ Freq: Powered by internal battery
 Result: Pass
 Comment: Test distance is 3m; 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



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)
1593.000000	38.2	1000.0	1000.000	V	-13.7	35.8	74.0
3822.000000	45.0	1000.0	1000.000	V	-6.2	29.1	74.0
4878.000000	46.3	1000.0	1000.000	V	-4.5	27.7	74.0
6414.000000	47.7	1000.0	1000.000	V	-3.0	26.3	74.0
8042.000000	49.0	1000.0	1000.000	V	0.5	25.0	74.0
17819.000000	59.7	1000.0	1000.000	V	11.4	14.3	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)
1593.000000	28.4	1000.0	1000.000	V	-13.7	25.6	54.0
3822.000000	31.4	1000.0	1000.000	V	-6.2	22.6	54.0
4878.000000	35.8	1000.0	1000.000	V	-4.5	18.3	54.0
6414.000000	34.2	1000.0	1000.000	V	-3.0	19.8	54.0
8042.000000	36.1	1000.0	1000.000	V	0.5	17.9	54.0
17819.000000	46.8	1000.0	1000.000	V	11.4	7.2	54.0

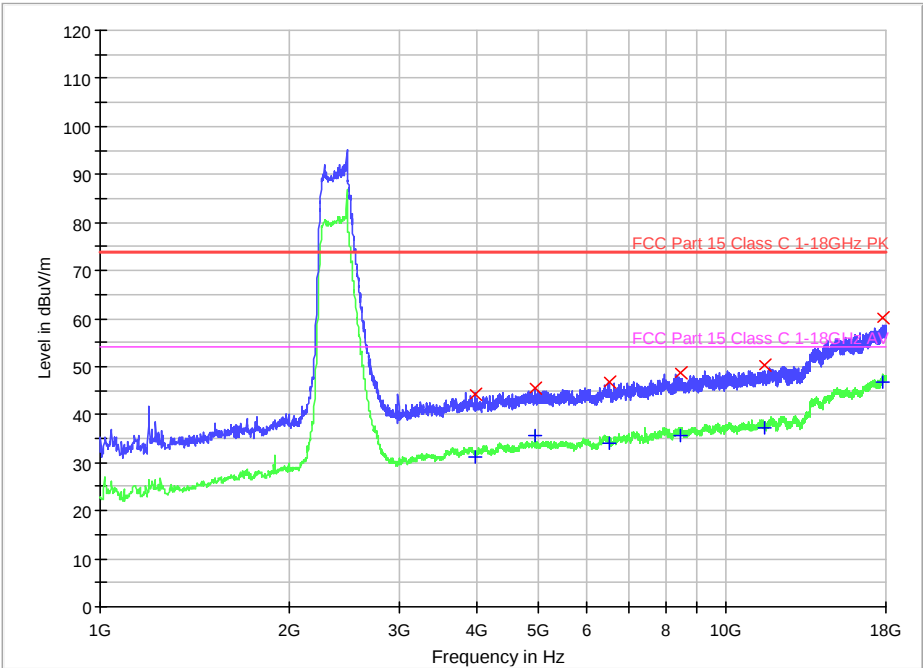
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Common Information

Manufacturer: Kingston
 Test Item: HyperX Cloud Flight S Wireless Headset
 Identification: CLOUD FLIGHT S
 Test Standard: FCC Part 15C/RSS-247
 Test Detail: Radiated Emission
 Operation Mode: Transmitting(High)
 Climate Condition: 20 °C, 50 %, 100 k Pa
 Test Voltage/ Freq: Powered by internal battery
 Result: Pass
 Comment: Test distance is 3m; 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



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)
3981.000000	44.2	1000.0	1000.000	H	-6.6	29.8	74.0
4955.000000	45.6	1000.0	1000.000	H	-4.7	28.4	74.0
6502.000000	46.8	1000.0	1000.000	H	-2.9	27.2	74.0
8452.000000	48.7	1000.0	1000.000	H	1.6	25.3	74.0
11493.000000	50.2	1000.0	1000.000	H	4.6	23.8	74.0
17781.000000	60.3	1000.0	1000.000	H	11.4	13.7	74.0

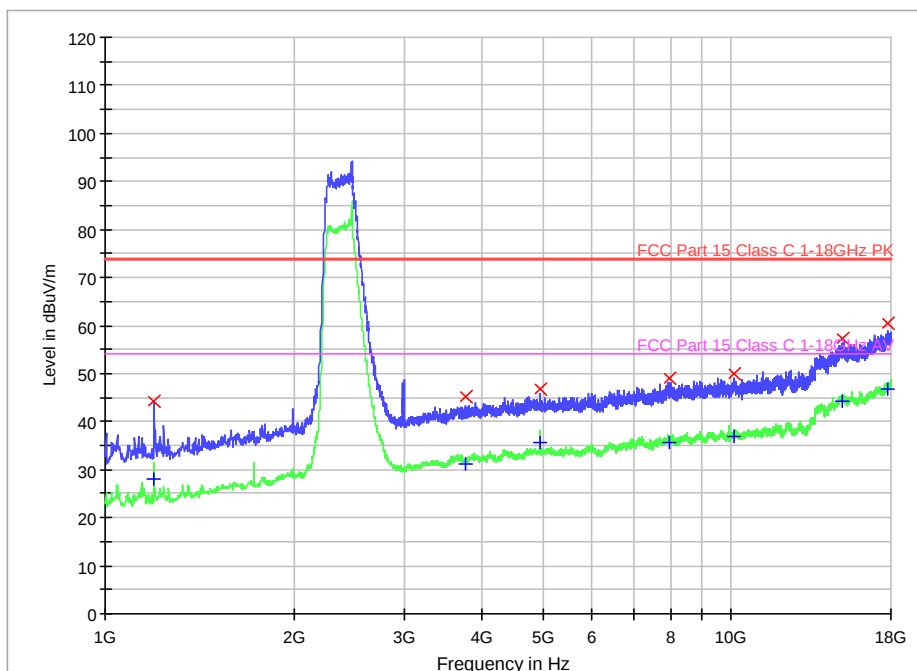
Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3981.000000	31.2	1000.0	1000.000	H	-6.6	22.8	54.0
4955.000000	35.5	1000.0	1000.000	H	-4.7	18.5	54.0
6502.000000	34.0	1000.0	1000.000	H	-2.9	20.0	54.0
8452.000000	35.7	1000.0	1000.000	H	1.6	18.3	54.0
11493.000000	37.4	1000.0	1000.000	H	4.6	16.6	54.0
17781.000000	46.7	1000.0	1000.000	H	11.4	7.3	54.0

Common Information

Manufacturer:	Kingston
Test Item:	HyperX Cloud Flight S Wireless Headset
Identification:	CLOUD FLIGHT S
Test Standard:	FCC Part 15C/RSS-247
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(High)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	Powered by internal battery
Result:	Pass
Comment:	Test distance is 3m; 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



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	44.4	1000.0	1000.000	V	-15.7	29.6	74.0
3756.000000	45.2	1000.0	1000.000	V	-6.9	28.8	74.0
4955.000000	46.7	1000.0	1000.000	V	-4.7	27.3	74.0
7976.000000	49.0	1000.0	1000.000	V	0.3	25.0	74.0
10137.000000	49.9	1000.0	1000.000	V	3.7	24.1	74.0
15057.000000	57.4	1000.0	1000.000	V	7.6	16.6	74.0
17783.000000	60.4	1000.0	1000.000	V	11.4	13.6	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)
1195.000000	27.9	1000.0	1000.000	V	-15.7	26.1	54.0
3756.000000	31.1	1000.0	1000.000	V	-6.9	22.9	54.0
4955.000000	35.8	1000.0	1000.000	V	-4.7	18.2	54.0
7976.000000	35.6	1000.0	1000.000	V	0.3	18.4	54.0
10137.000000	36.8	1000.0	1000.000	V	3.7	17.2	54.0
15057.000000	44.2	1000.0	1000.000	V	7.6	9.8	54.0
17783.000000	46.7	1000.0	1000.000	V	11.4	7.3	54.0

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Products

18GHz - 26GHz

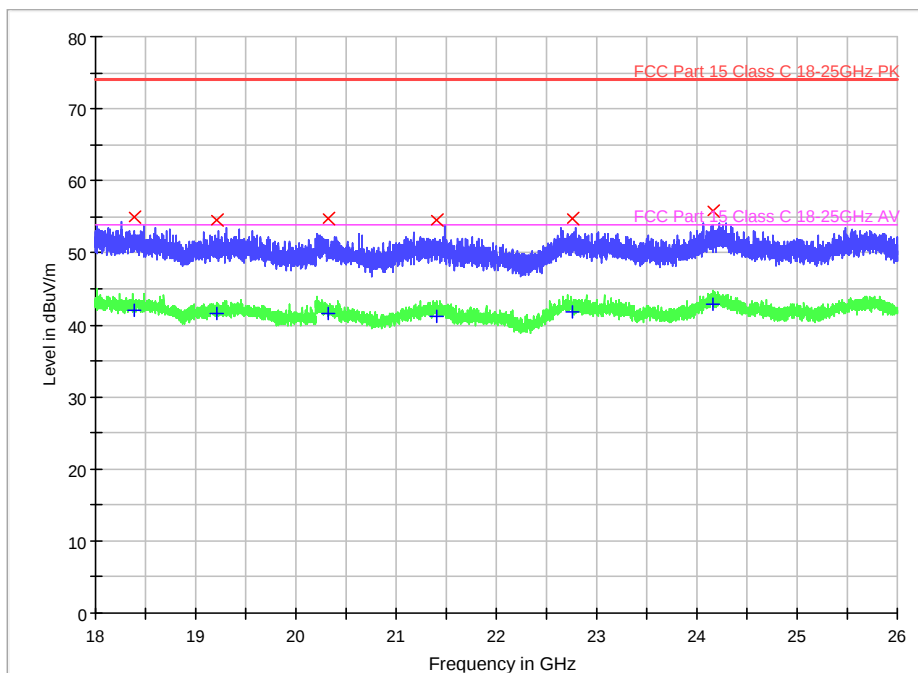
Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Low)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: DC 5.0V
Result: Pass
Comment: Test distance is 3m; Vertical

Subrange 1

Frequency Range: 18GHz-26GHz
Receiver: TUV FSP30
Transducer: TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18382.000000	54.9	1000.0	1000.000	V	8.1	19.1	74.0
19217.000000	54.5	1000.0	1000.000	V	7.9	19.5	74.0
20329.000000	54.8	1000.0	1000.000	V	7.6	19.2	74.0
21411.000000	54.6	1000.0	1000.000	V	7.2	19.4	74.0
22756.000000	54.7	1000.0	1000.000	V	7.4	19.3	74.0
24167.000000	55.7	1000.0	1000.000	V	7.7	18.3	74.0

Limit and Margin AV

Produkte

Products

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18382.000000	42.0	1000.0	1000.000	V	8.1	12.0	54.0
19217.000000	41.6	1000.0	1000.000	V	7.9	12.4	54.0
20329.000000	41.7	1000.0	1000.000	V	7.6	12.3	54.0
21411.000000	41.3	1000.0	1000.000	V	7.2	12.7	54.0
22756.000000	41.8	1000.0	1000.000	V	7.4	12.2	54.0
24167.000000	42.8	1000.0	1000.000	V	7.7	11.2	54.0

Common Information

Manufacturer:

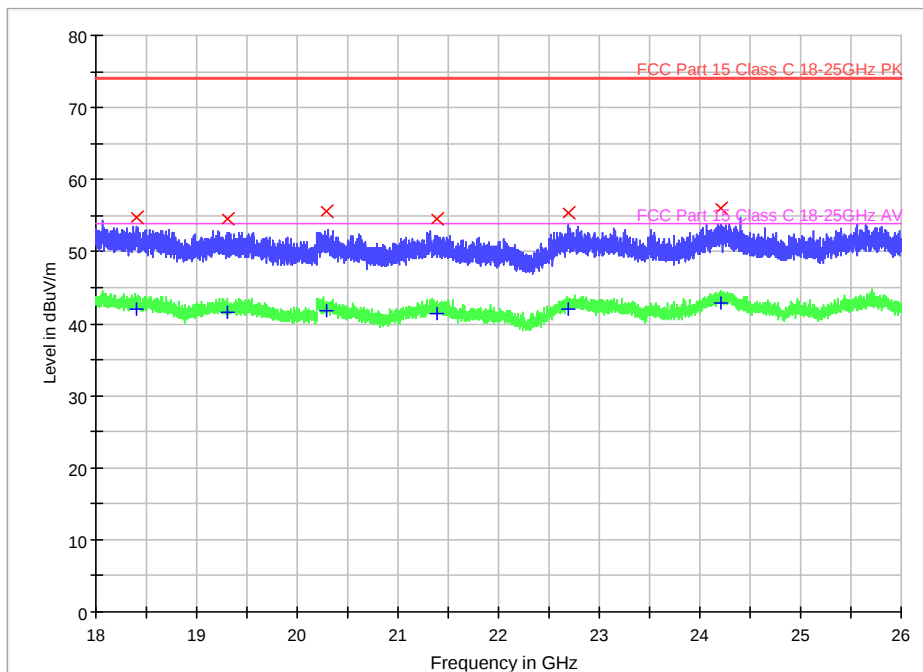
Kingston

Produkte
Products

Test Item: HyperX Cloud Flight S Wireless Headset
 Identification: CLOUD FLIGHT S
 Test Standard: FCC Part 15C/RSS-247
 Test Detail: Radiated Emission
 Operation Mode: Transmitting(Low)
 Climate Condition: 20 °C, 50 %, 100 k Pa
 Test Voltage/ Freq: Powered by internal battery
 Result: Pass
 Comment: Test distance is 3m; Horizontal

Subrange 1
 Frequency Range: 18GHz-26GHz
 Receiver: TUV FSP30
 Transducer: TUV SAC Horn 3160-09

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18398.000000	54.8	1000.0	1000.000	H	8.1	19.2	74.0
19306.000000	54.5	1000.0	1000.000	H	7.9	19.5	74.0
20285.000000	55.5	1000.0	1000.000	H	7.6	18.5	74.0
21383.000000	54.6	1000.0	1000.000	H	7.2	19.4	74.0
22689.000000	55.4	1000.0	1000.000	H	7.4	18.6	74.0
24216.000000	56.1	1000.0	1000.000	H	7.7	17.9	74.0

Limit and Margin AV

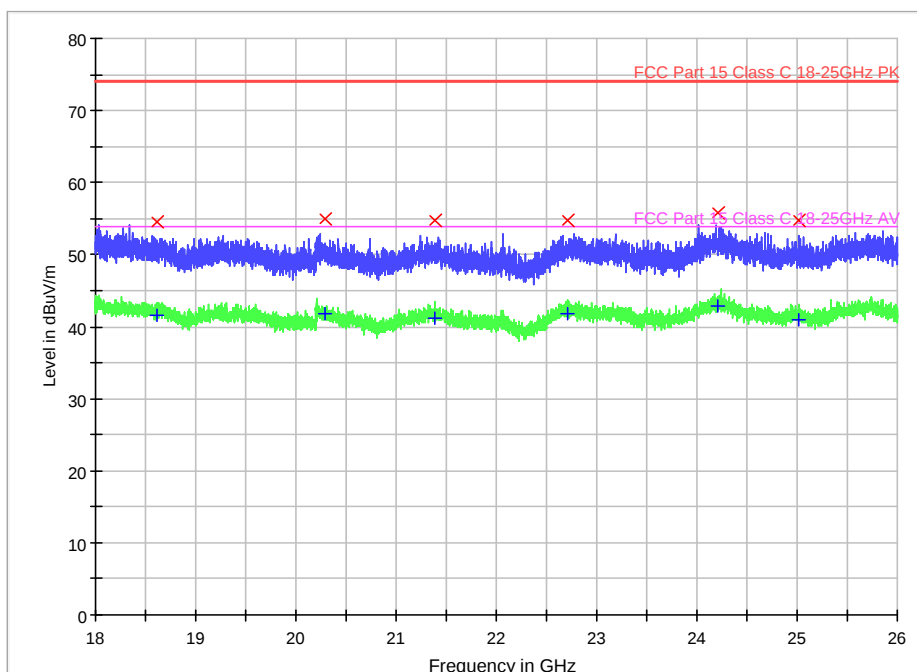
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18398.000000	42.0	1000.0	1000.000	H	8.1	12.0	54.0
19306.000000	41.5	1000.0	1000.000	H	7.9	12.5	54.0
20285.000000	41.8	1000.0	1000.000	H	7.6	12.2	54.0
21383.000000	41.3	1000.0	1000.000	H	7.2	12.7	54.0
22689.000000	41.9	1000.0	1000.000	H	7.4	12.1	54.0
24216.000000	43.0	1000.0	1000.000	H	7.7	11.0	54.0

Produkte
Products

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(Middle)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV FSP30
Transducer: TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18610.000000	54.5	1000.0	1000.000	H	8.1	19.5	74.0
20283.000000	55.0	1000.0	1000.000	H	7.6	19.0	74.0
21394.000000	54.7	1000.0	1000.000	H	7.2	19.3	74.0
22717.000000	54.7	1000.0	1000.000	H	7.4	19.3	74.0
24208.000000	55.8	1000.0	1000.000	H	7.7	18.2	74.0
25021.000000	54.9	1000.0	1000.000	H	7.1	19.2	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)
18610.000000	41.6	1000.0	1000.000	H	8.1	12.4	54.0
20283.000000	41.7	1000.0	1000.000	H	7.6	12.3	54.0
21394.000000	41.3	1000.0	1000.000	H	7.2	12.8	54.0
22717.000000	41.7	1000.0	1000.000	H	7.4	12.3	54.0
24208.000000	42.8	1000.0	1000.000	H	7.7	11.2	54.0
25021.000000	41.0	1000.0	1000.000	H	7.1	13.0	54.0

Common Information

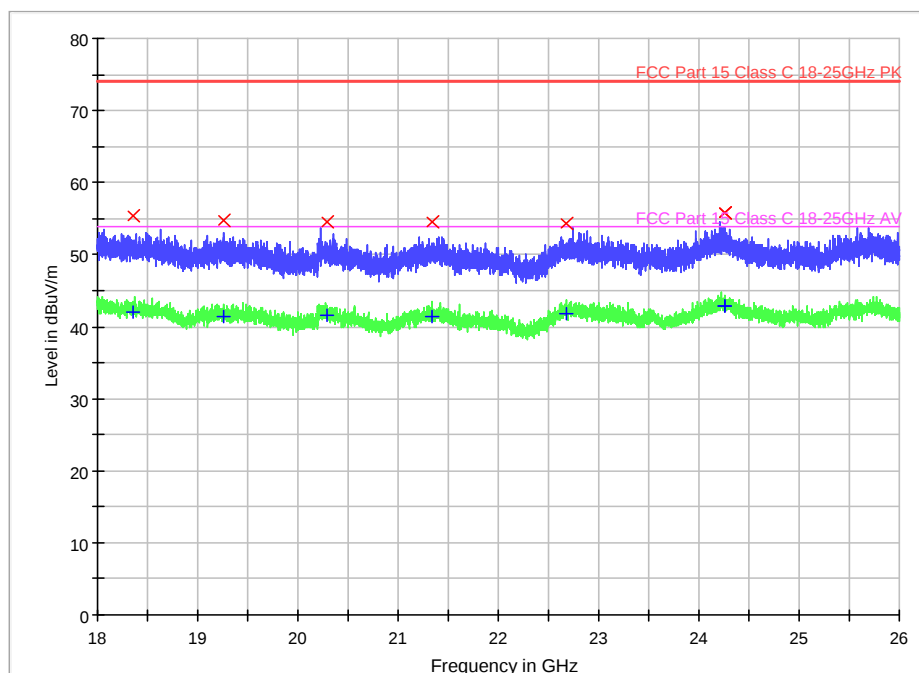
Manufacturer:

Kingston

Test Item: HyperX Cloud Flight S Wireless Headset
 Identification: CLOUD FLIGHT S
 Test Standard: FCC Part 15C/RSS-247
 Test Detail: Radiated Emission
 Operation Mode: Transmitting(Middle)
 Climate Condition: 20 °C, 50 %, 100 k Pa
 Test Voltage/ Freq: Powered by internal battery
 Result: Pass
 Comment: Test distance is 3m; Vertical

Subrange 1
 Frequency Range: 18GHz-26GHz
 Receiver: TUV FSP30
 Transducer: TUV SAC Horn 3160-09

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18355.000000	55.4	1000.0	1000.000	V	8.1	18.6	74.0
19255.000000	54.8	1000.0	1000.000	V	7.9	19.2	74.0
20293.000000	54.5	1000.0	1000.000	V	7.6	19.5	74.0
21338.000000	54.6	1000.0	1000.000	V	7.2	19.4	74.0
22684.000000	54.3	1000.0	1000.000	V	7.4	19.7	74.0
24251.000000	55.9	1000.0	1000.000	V	7.7	18.1	74.0
24251.000000	55.9	1000.0	1000.000	V	7.7	18.1	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)
18355.000000	42.0	1000.0	1000.000	V	8.1	12.0	54.0
19255.000000	41.4	1000.0	1000.000	V	7.9	12.6	54.0
20293.000000	41.6	1000.0	1000.000	V	7.6	12.4	54.0
21338.000000	41.3	1000.0	1000.000	V	7.2	12.7	54.0
22684.000000	41.8	1000.0	1000.000	V	7.4	12.2	54.0
24251.000000	42.9	1000.0	1000.000	V	7.7	11.1	54.0
24251.000000	42.9	1000.0	1000.000	V	7.7	11.1	54.0

Common Information

Manufacturer:

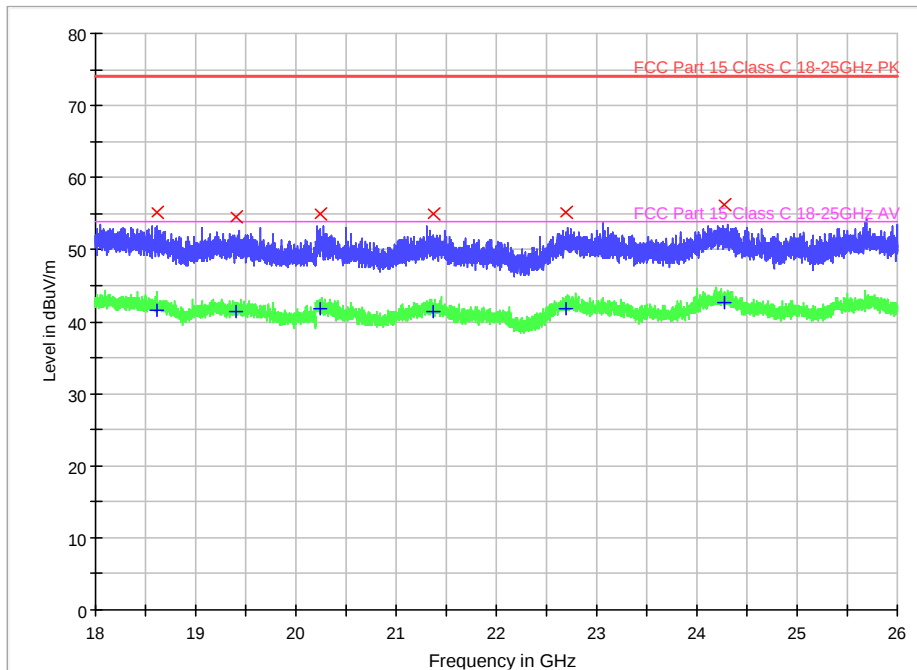
Kingston

Produkte
Products

Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Radiated Emission
Operation Mode: Transmitting(High)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Test distance is 3m; Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV FSP30
Transducer: TUV SAC Horn 3160-09

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18606.000000	55.1	1000.0	1000.000	H	8.1	18.9	74.0
19399.000000	54.6	1000.0	1000.000	H	7.9	19.4	74.0
20237.000000	54.9	1000.0	1000.000	H	7.7	19.1	74.0
21376.000000	54.9	1000.0	1000.000	H	7.2	19.1	74.0
22697.000000	55.2	1000.0	1000.000	H	7.4	18.8	74.0
24276.000000	56.1	1000.0	1000.000	H	7.7	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)
18606.000000	41.6	1000.0	1000.000	H	8.1	12.4	54.0
19399.000000	41.4	1000.0	1000.000	H	7.9	12.6	54.0
20237.000000	41.9	1000.0	1000.000	H	7.7	12.1	54.0
21376.000000	41.3	1000.0	1000.000	H	7.2	12.7	54.0
22697.000000	41.8	1000.0	1000.000	H	7.4	12.2	54.0
24276.000000	42.7	1000.0	1000.000	H	7.7	11.3	54.0

Common Information

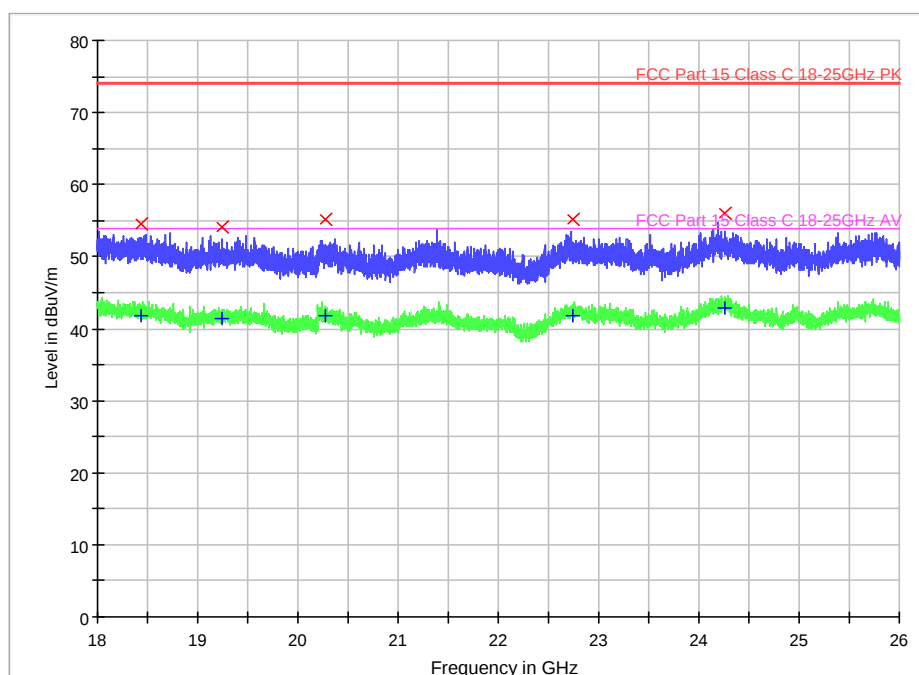
Manufacturer:

Kingston

Test Item: HyperX Cloud Flight S Wireless Headset
 Identification: CLOUD FLIGHT S
 Test Standard: FCC Part 15C/RSS-247
 Test Detail: Radiated Emission
 Operation Mode: Transmitting(High)
 Climate Condition: 20 °C, 50 %, 100 k Pa
 Test Voltage/ Freq: Powered by internal battery
 Result: Pass
 Comment: Test distance is 3m; Vertical

Subrange 1
 Frequency Range: 18GHz-26GHz
 Receiver: TUV FSP30
 Transducer: TUV SAC Horn 3160-09

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT



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)
18435.000000	54.6	1000.0	1000.000	V	8.1	19.4	74.0
19242.000000	54.1	1000.0	1000.000	V	7.9	19.9	74.0
20279.000000	55.1	1000.0	1000.000	V	7.6	18.9	74.0
22747.000000	55.2	1000.0	1000.000	V	7.4	18.8	74.0
24263.000000	55.9	1000.0	1000.000	V	7.7	18.1	74.0

Limit and Margin AV

Produkte
Products

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18435.000000	41.8	1000.0	1000.000	V	8.1	12.2	54.0
19242.000000	41.4	1000.0	1000.000	V	7.9	12.6	54.0
20279.000000	41.7	1000.0	1000.000	V	7.6	12.3	54.0
22747.000000	41.7	1000.0	1000.000	V	7.4	12.3	54.0
24263.000000	42.8	1000.0	1000.000	V	7.7	11.2	54.0

Appendix B.3: Test Results of Radiated Emissions in Restricted Bands

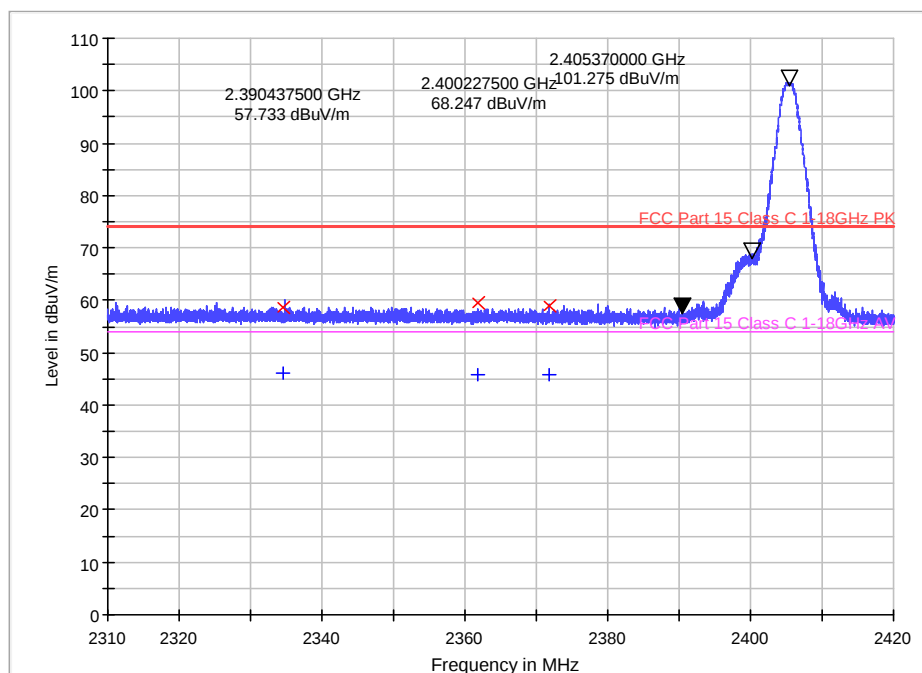
Low channel

Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Band edge
Operation Mode: Transmitting(Low)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Horizontal

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

EMCTT_EREFO11-A02-04_1GHz-18GHz



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)
2334.640000	58.6	1000.0	1000.000	H	32.9	15.5	74.0
2361.880000	59.4	1000.0	1000.000	H	33.0	14.6	74.0
2371.840000	58.9	1000.0	1000.000	H	33.0	15.1	74.0

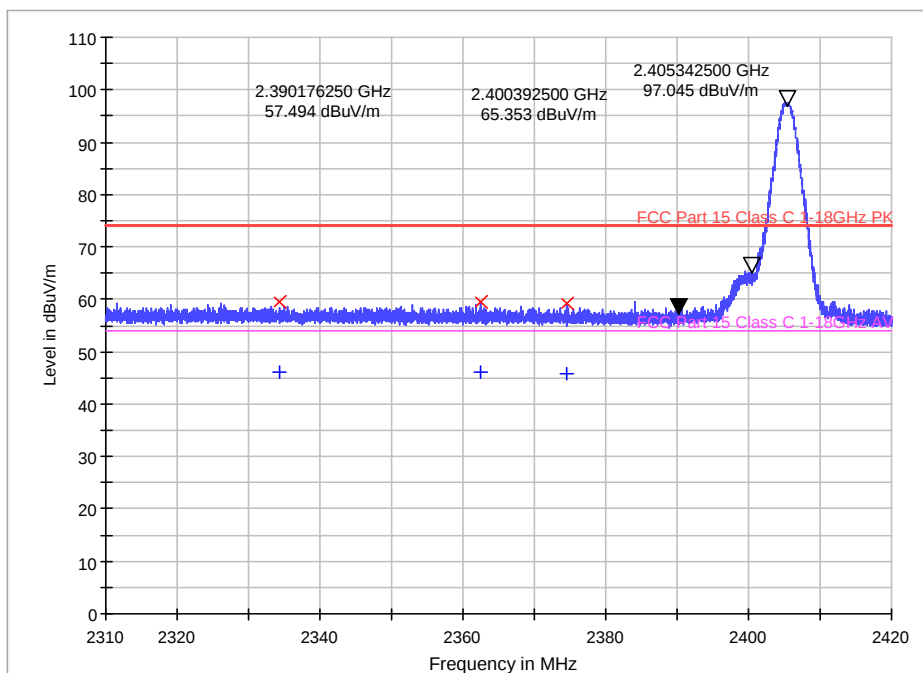
Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2334.640000	46.1	1000.0	1000.000	H	32.9	7.9	54.0
2361.880000	45.9	1000.0	1000.000	H	33.0	8.1	54.0
2371.840000	45.8	1000.0	1000.000	H	33.0	8.2	54.0

Common Information

Manufacturer:	Kingston
Test Item:	HyperX Cloud Flight S Wireless Headset
Identification:	CLOUD FLIGHT S
Test Standard:	FCC Part 15C/RSS-247
Test Detail:	Band edge
Operation Mode:	Transmitting(Low)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	Powered by internal battery
Result:	Pass
Comment:	Vertical
Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



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)
2334.400000	59.5	1000.0	1000.000	V	32.9	14.6	74.0
2362.600000	59.4	1000.0	1000.000	V	33.0	14.6	74.0
2374.600000	59.3	1000.0	1000.000	V	33.0	14.8	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)
2334.400000	46.1	1000.0	1000.000	V	32.9	7.9	54.0
2362.600000	46.0	1000.0	1000.000	V	33.0	8.0	54.0
2374.600000	45.9	1000.0	1000.000	V	33.0	8.1	54.0

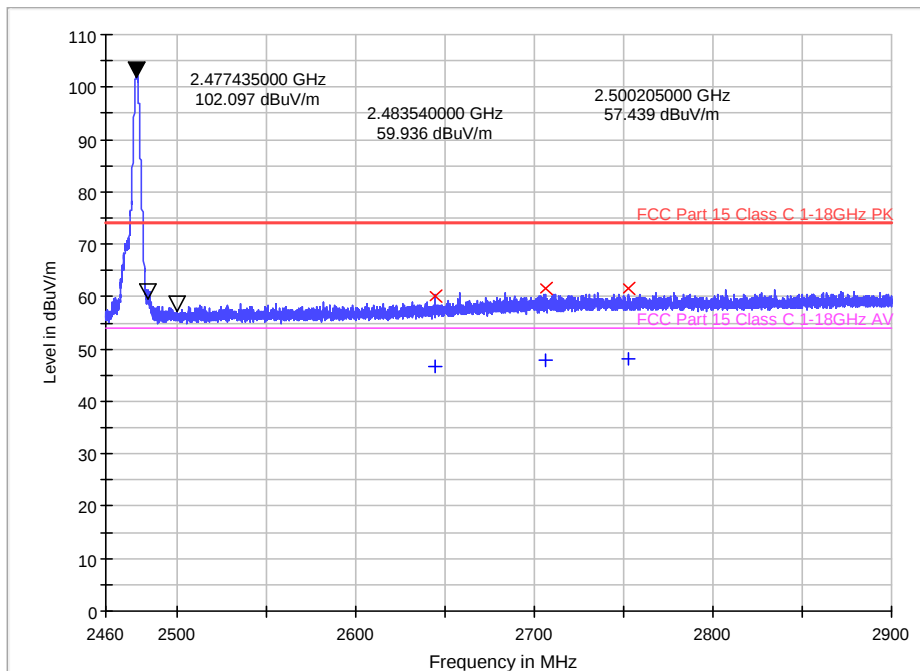
Produkte
Products

High channel

Common Information

Manufacturer:	Kingston
Test Item:	HyperX Cloud Flight S Wireless Headset
Identification:	CLOUD FLIGHT S
Test Standard:	FCC Part 15C/RSS-247
Test Detail:	Band edge
Operation Mode:	Transmitting(High)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	Powered by internal battery
Result:	Pass
Comment:	Horizontal
Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



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)
2644.480000	60.1	1000.0	1000.000	H	33.8	13.9	74.0
2706.520000	61.6	1000.0	1000.000	H	34.1	12.4	74.0
2752.360000	61.7	1000.0	1000.000	H	34.3	12.3	74.0

Limit and Margin AV

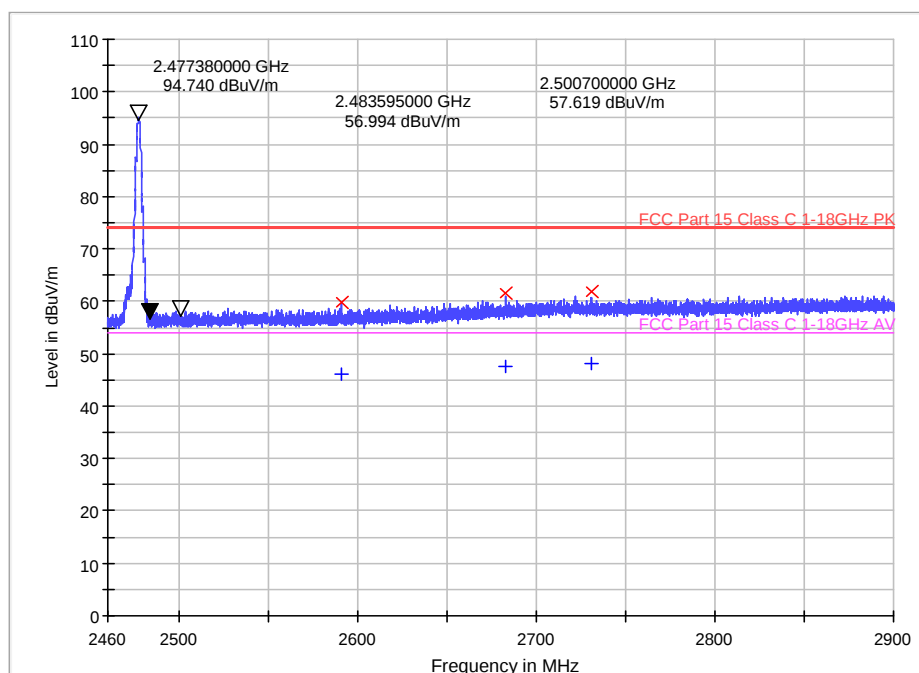
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2644.480000	46.8	1000.0	1000.000	H	33.8	7.2	54.0
2706.520000	47.8	1000.0	1000.000	H	34.1	6.2	54.0
2752.360000	48.1	1000.0	1000.000	H	34.3	5.9	54.0

Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S
Test Standard: FCC Part 15C/RSS-247
Test Detail: Band edge
Operation Mode: Transmitting(High)
Climate Condition: 20 °C, 50 %, 100 k Pa
Test Voltage/ Freq: Powered by internal battery
Result: Pass
Comment: Vertical

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

EMCTT_EREFO11-A02-04_1GHz-18GHz



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)
2591.080000	59.8	1000.0	1000.000	V	33.6	14.2	74.0
2682.760000	61.7	1000.0	1000.000	V	34.0	12.3	74.0
2731.240000	61.9	1000.0	1000.000	V	34.2	12.1	74.0

Limit and Margin AV

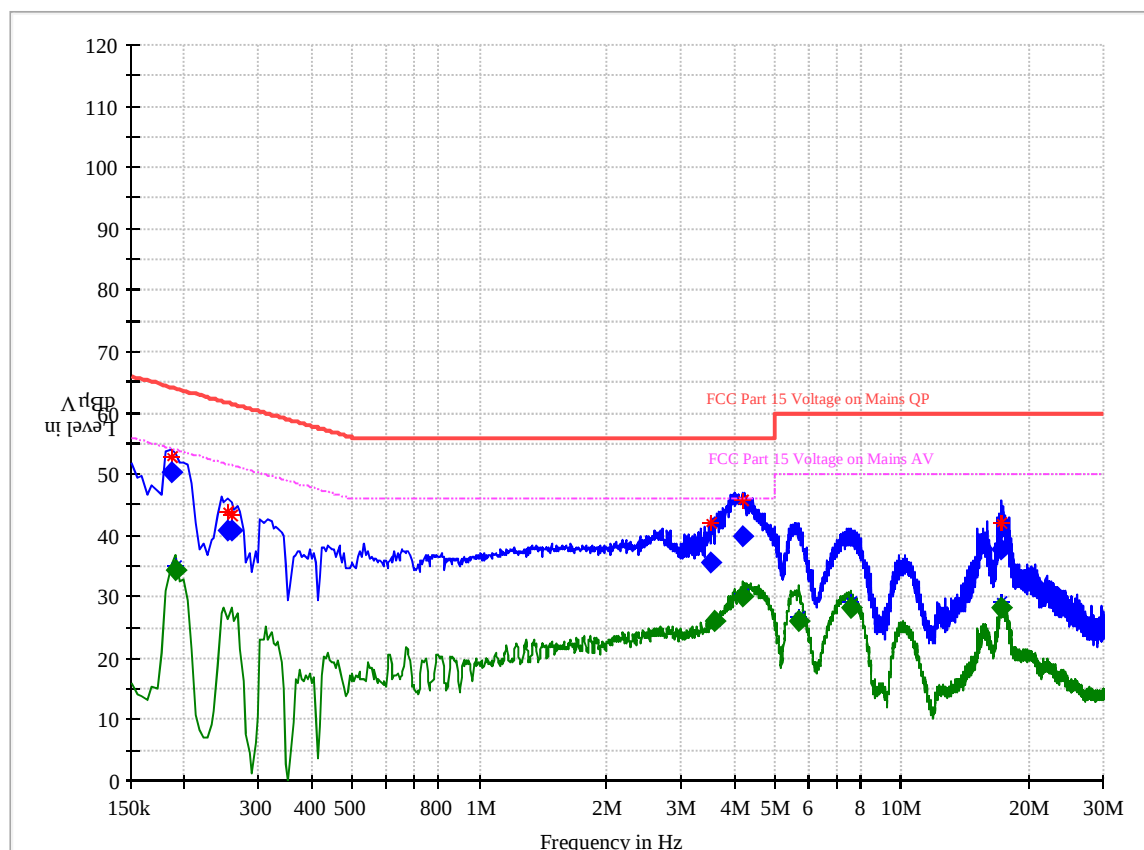
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2591.080000	46.1	1000.0	1000.000	V	33.6	7.9	54.0
2682.760000	47.5	1000.0	1000.000	V	34.0	6.6	54.0
2731.240000	48.0	1000.0	1000.000	V	34.2	6.0	54.0

Appendix B.4: Test Results of Mains Conduction Common Information

Manufacturer: Kingston
Test Item: HyperX Cloud Flight S Wireless Headset
Identification: CLOUD FLIGHT S, HXS-HSCFS-WA1
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: Transmitting (Middle)
Climate Condition: 22 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120V/60Hz
Port / Line: AC Mains
Receipt No.: 170109451
Report No.: /
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ENV 216 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)
0.186000	50.31	---	64.21	13.90	1000.	9.000	N	ON	9.7
0.190500	---	34.41	54.02	19.60	1000.	9.000	N	ON	9.7
0.253500	40.84	---	61.64	20.80	1000.	9.000	N	ON	9.6
0.258000	40.73	---	61.50	20.76	1000.	9.000	L1	ON	9.8
3.543000	35.71	---	56.00	20.29	1000.	9.000	L1	ON	10.1
3.588000	---	25.96	46.00	20.04	1000.	9.000	L1	ON	10.1
4.195500	40.03	---	56.00	15.97	1000.	9.000	L1	ON	10.2
4.204500	---	30.06	46.00	15.94	1000.	9.000	N	ON	9.9
5.712000	---	26.16	50.00	23.84	1000.	9.000	L1	ON	10.2
7.552500	---	28.32	50.00	21.68	1000.	9.000	L1	ON	10.3
17.169000	---	28.30	50.00	21.70	1000.	9.000	L1	ON	10.6
17.227500	37.71	---	60.00	22.29	1000.	9.000	L1	ON	10.6