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Appendix B: Test Results of General 2.4GHz

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Appendix B.1: Measurement Equipment List

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

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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	∨ULB9168(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



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Appendix B.2: Fundamental & Harmonics Radiated Emission 9kHz - 30MHz

EMC Test Record (Emission)

Common Information

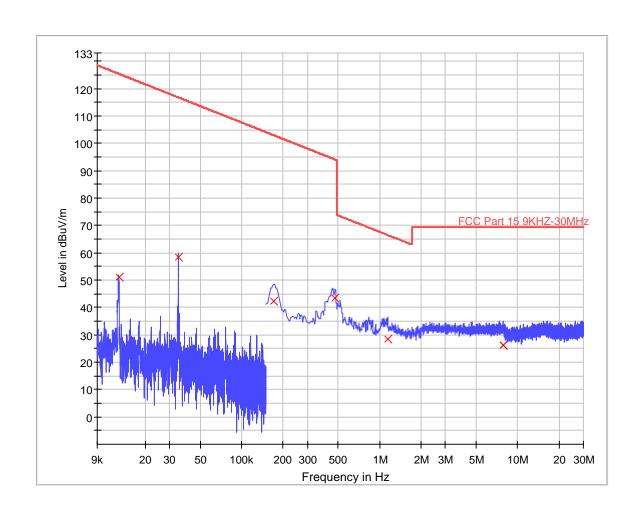
Manufacturer: Knectek Labs Inc. Test Item: CubiTag Card Identification: CTAG0302 Test Standard: FCC Part 15 Test Detail: Radiated Emission Operation Mode: Transmitting(BLE-Mid) Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m

Subrange 1

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





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Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
1.146000	28.5	1000.0	9.000	21.3	38.0	66.4	
7.848000	26.2	1000.0	9.000	21.5	43.3	69.5	
7.848000	26.2	1000.0	9.000	21.5	43.3	69.5	

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Comment
0.012900	51.1	1000.0	0.200	22.5	74.3	125.4	
0.034800	58.3	1000.0	0.200	22.6	58.5	116.8	
0.172000	42.2	1000.0	9.000	20.9	60.6	102.9	
0.475000	43.3	1000.0	9.000	20.4	50.8	94.1	



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver (BLE-Mid)

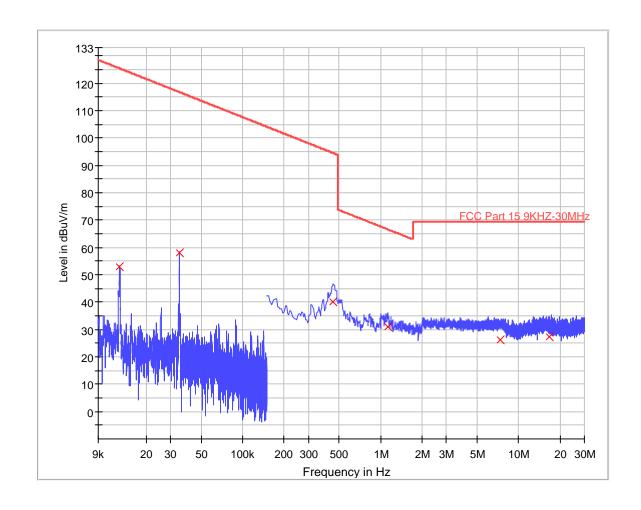
Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m

Subrange 1

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





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Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
1.124000	31.0	1000.0	9.000	21.3	35.6	66.6	
7.344000	26.1	1000.0	9.000	21.5	43.4	69.5	
16.765000	27.1	1000.0	9.000	22.3	42.4	69.5	

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Comment
0.012800	52.8	1000.0	0.200	22.5	72.6	125.4	
0.034800	58.1	1000.0	0.200	22.6	58.6	116.8	
0.452000	40.3	1000.0	9.000	20.4	54.2	94.5	



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30MHz - 1GHz

EMC Test Record (Emission)

Common Information

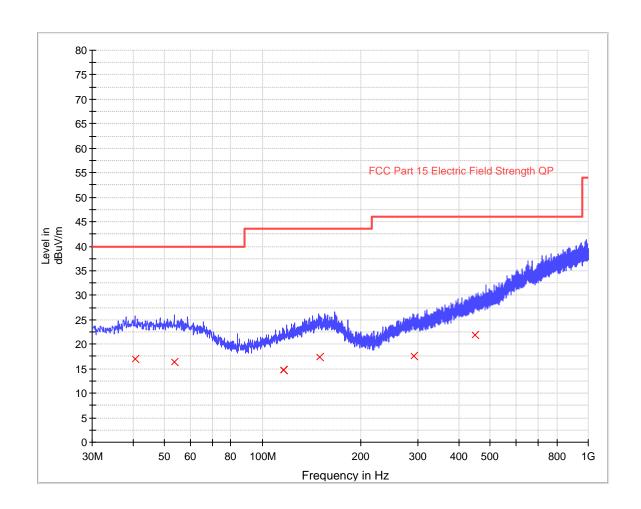
Manufacturer: Knectek Labs Inc. Test Item: CubiTag Card CTAG0302 Identification: FCC Part 15 Test Standard: Test Detail: Radiated Emission Operation Mode: Transmitting(BLE-Mid) Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m; Horizontal

Subrange 1

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





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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
40.560000	17.0	1000.0	120.000	Н	20.6	23.0	40.0	
53.640000	16.5	1000.0	120.000	Н	20.4	23.6	40.0	
115.960000	14.7	1000.0	120.000	Н	18.7	28.8	43.5	
115.960000	14.7	1000.0	120.000	Н	18.7	28.8	43.5	
149.680000	17.4	1000.0	120.000	Н	21.1	26.1	43.5	
292.280000	17.6	1000.0	120.000	Н	21.5	28.4	46.0	·
447.720000	22.0	1000.0	120.000	Н	25.9	24.0	46.0	



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EMC Test Record (Emission)

Common Information

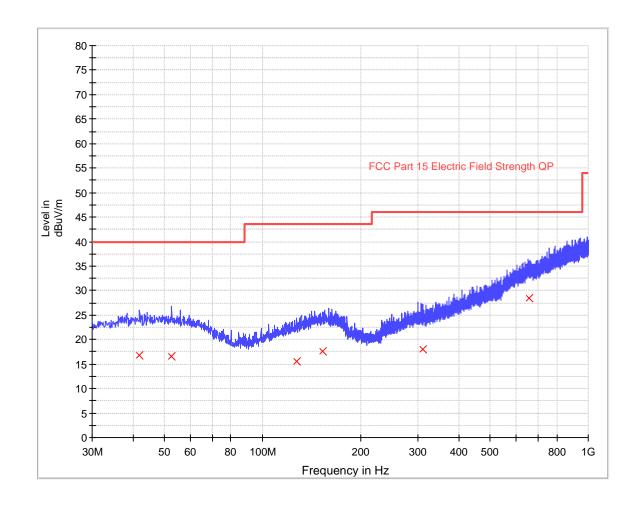
Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-Mid)Climate Condition:20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m; Vertical

Subrange 1

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





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Limit and Margin QP

	- 3	•						
Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
41.880000	16.7	1000.0	120.000	٧	20.6	23.3	40.0	
52.680000	16.6	1000.0	120.000	٧	20.4	23.4	40.0	
127.600000	15.6	1000.0	120.000	٧	19.7	27.9	43.5	
153.320000	17.5	1000.0	120.000	٧	21.2	26.0	43.5	
311.680000	18.0	1000.0	120.000	٧	21.9	28.1	46.0	
656.360000	28.4	1000.0	120.000	٧	31.5	17.6	46.0	



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver (BLE-Mid)

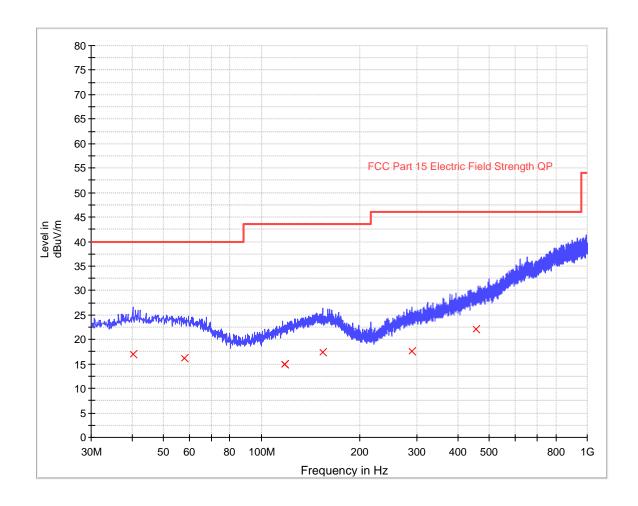
Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m; Horizontal

Subrange 1

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





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Limit and Margin QP

		- 3	•						
	quency MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
4	40.320000	17.0	1000.0	120.000	Н	20.6	23.0	40.0	
	57.880000	16.3	1000.0	120.000	Н	20.0	23.8	40.0	
11	17.920000	14.9	1000.0	120.000	Н	18.9	28.6	43.5	
11	17.920000	14.9	1000.0	120.000	Н	18.9	28.6	43.5	
15	53.680000	17.5	1000.0	120.000	Н	21.3	26.0	43.5	
28	88.640000	17.5	1000.0	120.000	Н	21.4	28.5	46.0	
4:	54.360000	22.1	1000.0	120.000	Н	26.0	23.9	46.0	



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver (BLE-Mid)

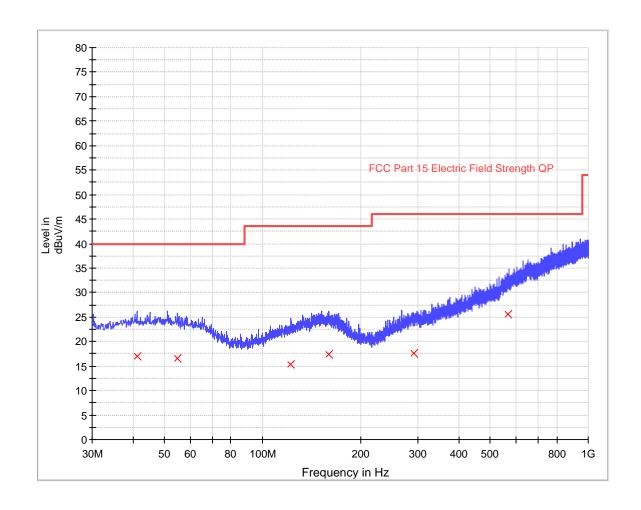
Climate Condition: 20 °C, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

Comment: Test distance is 3m; Vertical

Subrange 1

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





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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
41.160000	16.9	1000.0	120.000	٧	20.6	23.1	40.0	
54.840000	16.6	1000.0	120.000	٧	20.3	23.4	40.0	
122.400000	15.4	1000.0	120.000	٧	19.3	28.1	43.5	
159.360000	17.4	1000.0	120.000	٧	21.3	26.1	43.5	
291.160000	17.6	1000.0	120.000	٧	21.5	28.4	46.0	
568.960000	25.6	1000.0	120.000	٧	28.9	20.4	46.0	



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1GHz - 18GHz

EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Transmitting (BLE-Low)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3.7V

Receipt No:

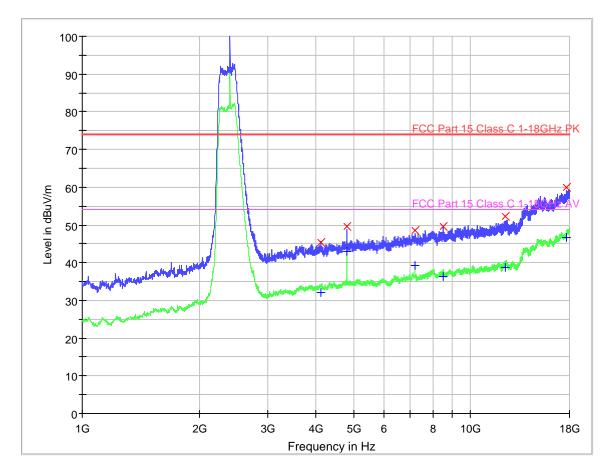
Report No: /
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Limit and Margin PK



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Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
4126.000000	45.3	1000.0	1000.000	Н	-6.2	28.7	74.0
4804.000000	49.7	1000.0	1000.000	Н	-4.7	24.3	74.0
7205.000000	48.7	1000.0	1000.000	Н	-1.1	25.3	74.0
8488.000000	49.6	1000.0	1000.000	Н	1.9	24.4	74.0
12311.000000	52.2	1000.0	1000.000	Н	5.2	21.8	74.0
17677.000000	60.0	1000.0	1000.000	Н	11.4	14.0	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4126.000000	32.1	1000.0	1000.000	Н	-6.2	21.9	54.0
4804.000000	42.9	1000.0	1000.000	Н	-4.7	11.1	54.0
7205.000000	39.3	1000.0	1000.000	Н	-1.1	14.7	54.0
8488.000000	36.4	1000.0	1000.000	Н	1.9	17.7	54.0
12311.000000	38.7	1000.0	1000.000	Н	5.2	15.3	54.0
17677.000000	46.8	1000.0	1000.000	Н	11.4	7.2	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.

Test Item: CubiTag Card

Identification: CTAG0302

Test Standard: FCC Part 15

Test Detail: Radiated Emission

Operation Mode: Transmitting (BLE-Low)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3.7V

Receipt No:

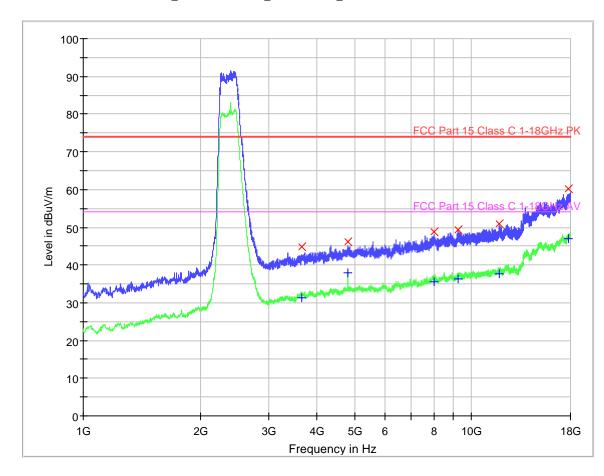
Report No: /
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Limit and Margin PK



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Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3654.000000	44.7	1000.0	1000.000	٧	-7.0	29.3	74.0
4804.000000	46.1	1000.0	1000.000	٧	-4.7	27.9	74.0
8006.000000	48.9	1000.0	1000.000	٧	0.4	25.1	74.0
9247.000000	49.4	1000.0	1000.000	٧	2.2	24.6	74.0
11831.000000	50.9	1000.0	1000.000	٧	5.0	23.2	74.0
17817.000000	60.1	1000.0	1000.000	٧	11.4	13.9	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3654.000000	31.3	1000.0	1000.000	٧	-7.0	22.7	54.0
4804.000000	37.8	1000.0	1000.000	٧	-4.7	16.2	54.0
8006.000000	35.6	1000.0	1000.000	٧	0.4	18.4	54.0
9247.000000	36.3	1000.0	1000.000	٧	2.2	17.7	54.0
11831.000000	37.6	1000.0	1000.000	٧	5.0	16.5	54.0
17817.000000	46.9	1000.0	1000.000	٧	11.4	7.1	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer:

Test Item:
CubiTag Card
Identification:
CTAG0302
Test Standard:
Test Detail:
Coperation Mode:
Knectek Labs Inc.
CubiTag Card
CTAG0302
FCC Part 15
Radiated Emission
Transmitting (BLE-Mid)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V

Receipt No:

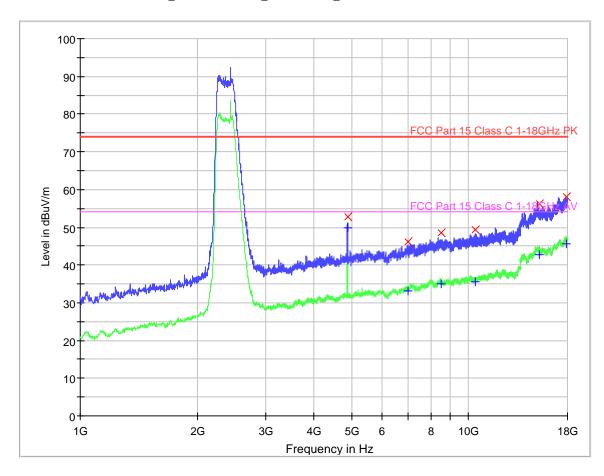
Report No: /
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter





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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)
4880.000000	52.8	1000.0	1000.000	Н	-4.4	21.2	74.0
6978.000000	46.2	1000.0	1000.000	Н	-1.5	27.9	74.0
8501.000000	48.5	1000.0	1000.000	Н	1.8	25.5	74.0
10416.000000	49.3	1000.0	1000.000	Н	3.4	24.7	74.0
15216.000000	56.3	1000.0	1000.000	Н	7.2	17.7	74.0
17862.000000	58.2	1000.0	1000.000	Н	11.3	15.8	74.0

		•					
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4880.000000	49.8	1000.0	1000.000	Н	-4.4	4.2	54.0
6978.000000	33.1	1000.0	1000.000	Н	-1.5	20.9	54.0
8501.000000	35.0	1000.0	1000.000	Н	1.8	19.1	54.0
10416.000000	35.6	1000.0	1000.000	Н	3.4	18.4	54.0
15216.000000	42.8	1000.0	1000.000	Н	7.2	11.2	54.0
17862.000000	45.5	1000.0	1000.000	Н	11.3	8.5	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer:

Test Item:
CubiTag Card
Identification:
CTAG0302
Test Standard:
Test Detail:
Coperation Mode:
Knectek Labs Inc.
CubiTag Card
CTAG0302
FCC Part 15
Radiated Emission
Transmitting (BLE-Mid)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V

Receipt No:

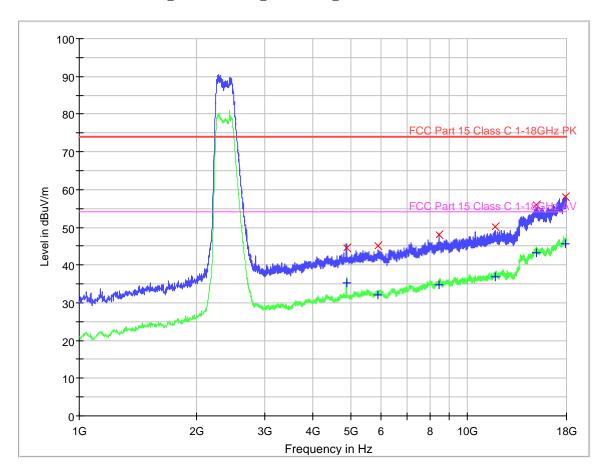
Report No: /
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter





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Limit and Margin PK

	a. 9						
Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
4880.000000	44.5	1000.0	1000.000	٧	-4.4	29.5	74.0
5890.000000	45.2	1000.0	1000.000	٧	-3.6	28.8	74.0
8457.000000	47.9	1000.0	1000.000	٧	1.7	26.1	74.0
11789.000000	50.2	1000.0	1000.000	٧	5.2	23.8	74.0
15050.000000	56.1	1000.0	1000.000	٧	7.6	17.9	74.0
17906.000000	58.1	1000.0	1000.000	٧	11.2	15.9	74.0

~	a. g						
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4880.000	000 35.3	1000.0	1000.000	٧	-4.4	18.7	54.0
5890.000	000 32.0	1000.0	1000.000	٧	-3.6	22.0	54.0
8457.000	000 34.8	1000.0	1000.000	٧	1.7	19.2	54.0
11789.000	000 36.9	1000.0	1000.000	٧	5.2	17.1	54.0
15050.000	000 43.2	1000.0	1000.000	٧	7.6	10.8	54.0
17906.000	000 45.7	1000.0	1000.000	٧	11.2	8.4	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Transmitting (BLE-High)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V

Receipt No:

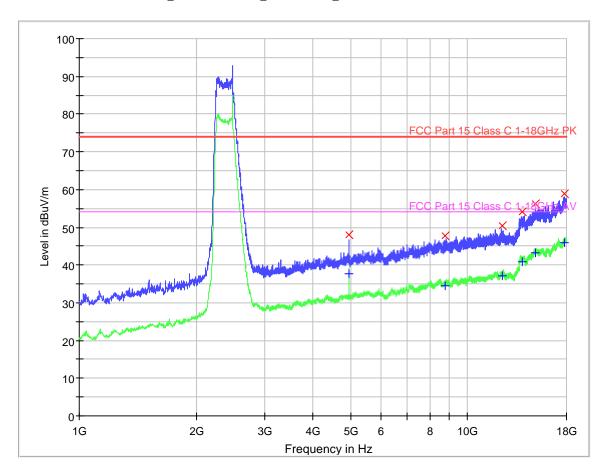
Report No: /
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter





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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)
4959.000000	48.1	1000.0	1000.000	Н	-4.7	25.9	74.0
8767.000000	47.7	1000.0	1000.000	Н	1.6	26.3	74.0
12296.000000	50.5	1000.0	1000.000	Н	5.2	23.5	74.0
13852.000000	54.2	1000.0	1000.000	Н	5.3	19.8	74.0
15002.000000	56.3	1000.0	1000.000	Н	7.6	17.7	74.0
17819.000000	58.8	1000.0	1000.000	Н	11.4	15.2	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4959.000000	37.7	1000.0	1000.000	Н	-4.7	16.3	54.0
8767.000000	34.6	1000.0	1000.000	Н	1.6	19.4	54.0
12296.000000	37.2	1000.0	1000.000	Н	5.2	16.8	54.0
13852.000000	40.9	1000.0	1000.000	Н	5.3	13.1	54.0
15002.000000	43.2	1000.0	1000.000	Н	7.6	10.8	54.0
17819.000000	45.8	1000.0	1000.000	Н	11.4	8.2	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Transmitting (BLE-High)

Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V

Receipt No:

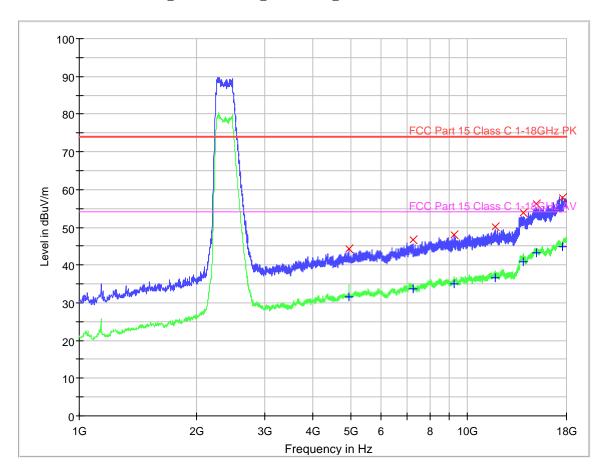
Report No: /
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter





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Limit and Margin PK

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Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
4959.000000	44.2	1000.0	1000.000	٧	-4.7	29.8	74.0
7226.000000	46.7	1000.0	1000.000	٧	-1.1	27.4	74.0
9258.000000	48.0	1000.0	1000.000	٧	2.2	26.0	74.0
11801.000000	50.0	1000.0	1000.000	٧	5.2	24.0	74.0
13933.000000	53.9	1000.0	1000.000	٧	5.8	20.1	74.0
15046.000000	56.4	1000.0	1000.000	٧	7.6	17.7	74.0
17577.000000	57.9	1000.0	1000.000	٧	11.2	16.1	74.0

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Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
4959.000000	31.5	1000.0	1000.000	٧	-4.7	22.5	54.0
7226.000000	33.6	1000.0	1000.000	٧	-1.1	20.4	54.0
9258.000000	35.1	1000.0	1000.000	٧	2.2	18.9	54.0
11801.000000	36.7	1000.0	1000.000	٧	5.2	17.3	54.0
13933.000000	41.0	1000.0	1000.000	٧	5.8	13.0	54.0
15046.000000	43.1	1000.0	1000.000	٧	7.6	10.9	54.0
17577.000000	44.8	1000.0	1000.000	٧	11.2	9.2	54.0



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18GHz - 26GHz

EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc. Test Item: CubiTag Card CTAG0302 Identification: FCC Part 15 Test Standard: Test Detail: Radiated Emission Operation Mode: Transmitting(BLE-Low) Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

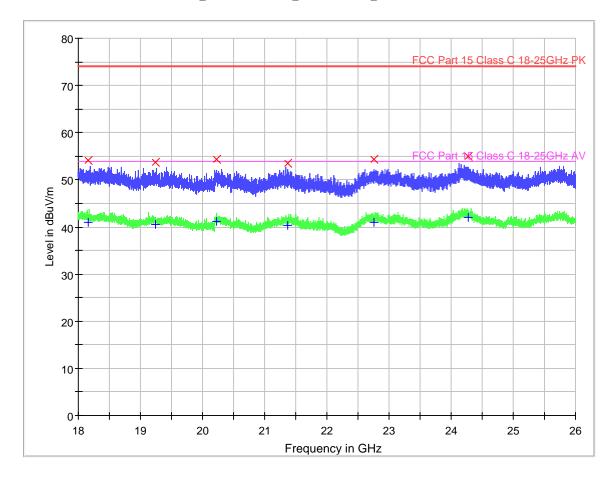
Comment: Test distance is 3m; Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)
18163.000000	54.1	1000.0	1000.000	Н	8.0	20.0	74.0
19238.000000	53.6	1000.0	1000.000	Н	7.9	20.4	74.0
20225.000000	54.2	1000.0	1000.000	Н	7.7	19.8	74.0
21373.000000	53.6	1000.0	1000.000	Н	7.2	20.4	74.0
22762.000000	54.3	1000.0	1000.000	Н	7.4	19.7	74.0
24267.000000	54.9	1000.0	1000.000	Н	7.7	19.1	74.0

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	Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
ĺ	18163.000000	41.0	1000.0	1000.000	Н	8.0	13.0	54.0
ſ	19238.000000	40.6	1000.0	1000.000	Н	7.9	13.4	54.0
	20225.000000	41.1	1000.0	1000.000	Н	7.7	12.9	54.0
ſ	21373.000000	40.4	1000.0	1000.000	Н	7.2	13.6	54.0
	22762.000000	40.9	1000.0	1000.000	Н	7.4	13.1	54.0
	24267.000000	42.0	1000.0	1000.000	Н	7.7	12.1	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-Low)Climate Condition:20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

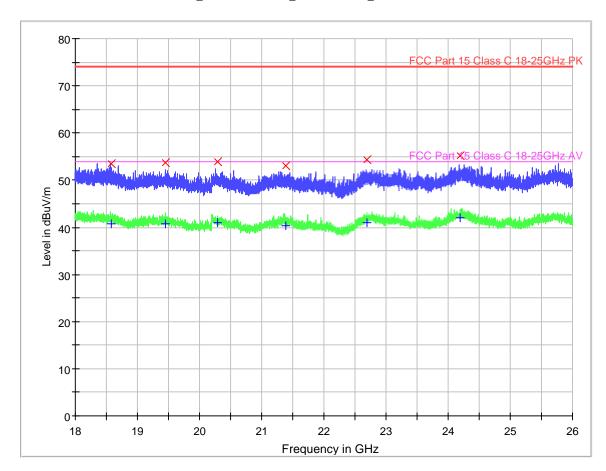
Comment: Test distance is 3m; Vertical

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)	
Ī	18583.000000	53.4	1000.0	1000.000	٧	8.1	20.6	74.0	
Ī	19450.000000	53.6	1000.0	1000.000	٧	7.9	20.4	74.0	
Ī	20289.000000	54.0	1000.0	1000.000	٧	7.6	20.0	74.0	
Ī	21383.000000	53.0	1000.0	1000.000	٧	7.2	21.0	74.0	
Ī	22688.000000	54.3	1000.0	1000.000	٧	7.4	19.7	74.0	
Ī	24192.000000	55.2	1000.0	1000.000	٧	7.7	18.8	74.0	

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	Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)		
	18583.000000	40.7	1000.0	1000.000	٧	8.1	13.3	54.0		
Г	19450.000000	40.7	1000.0	1000.000	٧	7.9	13.3	54.0		
Г	20289.000000	40.9	1000.0	1000.000	٧	7.6	13.1	54.0		
Г	21383.000000	40.3	1000.0	1000.000	٧	7.2	13.7	54.0		
Г	22688.000000	41.1	1000.0	1000.000	٧	7.4	12.9	54.0		
Г	24192.000000	42.0	1000.0	1000.000	٧	7.7	12.0	54.0		



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EMC Test Record (Emission)

Common Information

Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-Mid)Climate Condition:20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

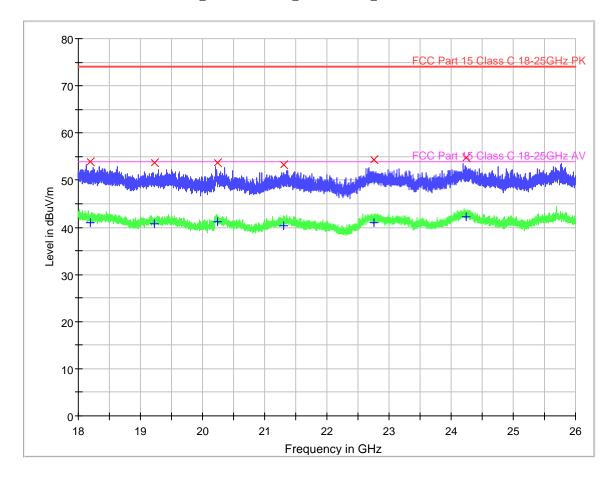
Comment: Test distance is 3m; Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)		
18201.000000	53.9	1000.0	1000.000	Н	8.0	20.2	74.0		
19221.000000	53.7	1000.0	1000.000	Н	7.9	20.3	74.0		
20235.000000	53.7	1000.0	1000.000	Н	7.7	20.3	74.0		
21314.000000	53.3	1000.0	1000.000	Н	7.2	20.7	74.0		
22757.000000	54.3	1000.0	1000.000	Н	7.4	19.7	74.0		
24247.000000	54.8	1000.0	1000.000	Н	7.7	19.2	74.0		

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)			
18201.000000	40.9	1000.0	1000.000	Н	8.0	13.1	54.0			
19221.000000	40.7	1000.0	1000.000	Н	7.9	13.3	54.0			
20235.000000	41.1	1000.0	1000.000	Н	7.7	12.9	54.0			
21314.000000	40.4	1000.0	1000.000	Н	7.2	13.6	54.0			
22757.000000	40.9	1000.0	1000.000	Н	7.4	13.1	54.0			
24247.000000	42.1	1000.0	1000.000	Н	7.7	11.9	54.0			



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EMC Test Record (Emission)

Common Information

Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-Mid)Climate Condition:20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

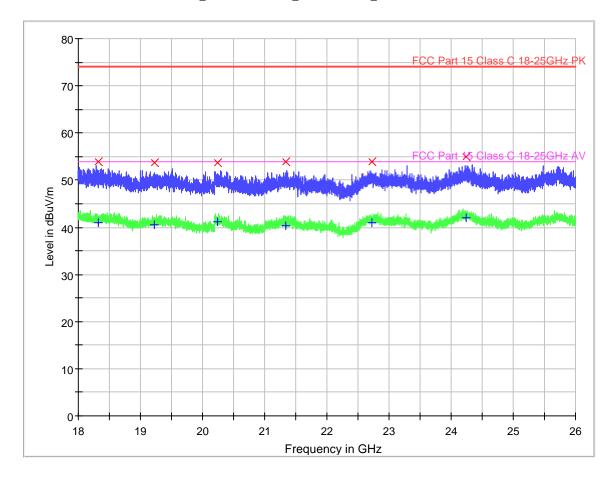
Comment: Test distance is 3m; Vertical

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)	
Ī	18326.000000	54.0	1000.0	1000.000	٧	8.0	20.0	74.0	
Ī	19232.000000	53.8	1000.0	1000.000	٧	7.9	20.3	74.0	
Ī	20243.000000	53.7	1000.0	1000.000	٧	7.6	20.3	74.0	
Ī	21339.000000	54.0	1000.0	1000.000	٧	7.2	20.0	74.0	
	22719.000000	53.9	1000.0	1000.000	٧	7.4	20.1	74.0	
Ī	24245.000000	54.9	1000.0	1000.000	٧	7.7	19.1	74.0	

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)		
18326.000000	40.9	1000.0	1000.000	٧	8.0	13.1	54.0		
19232.000000	40.6	1000.0	1000.000	٧	7.9	13.4	54.0		
20243.000000	41.1	1000.0	1000.000	٧	7.6	12.9	54.0		
21339.000000	40.4	1000.0	1000.000	٧	7.2	13.6	54.0		
22719.000000	40.9	1000.0	1000.000	٧	7.4	13.1	54.0		
24245.000000	42.1	1000.0	1000.000	٧	7.7	11.9	54.0		



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EMC Test Record (Emission)

Common Information

Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-High)Climate Condition:20 ℃, 50 %, 100 k Page

Test Voltage/ Freq: DC 3V Result: Pass

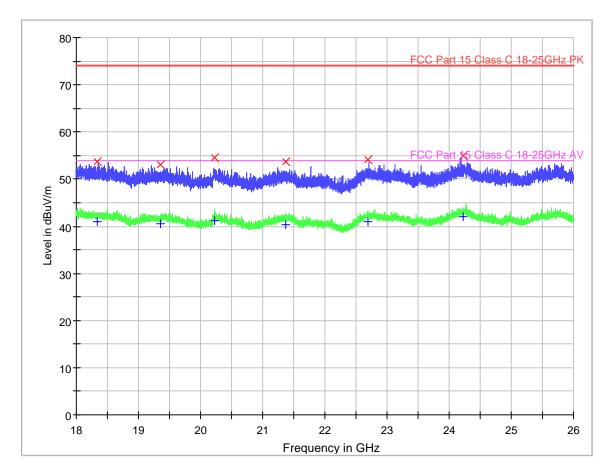
Comment: Test distance is 3m; Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)		
18338.000000	53.6	1000.0	1000.000	Н	8.1	20.4	74.0		
19362.000000	53.0	1000.0	1000.000	Н	7.9	21.0	74.0		
20222.000000	54.6	1000.0	1000.000	Н	7.7	19.5	74.0		
21370.000000	53.6	1000.0	1000.000	Н	7.2	20.4	74.0		
22692.000000	54.1	1000.0	1000.000	Н	7.4	19.9	74.0		
24230.000000	55.0	1000.0	1000.000	Н	7.7	19.0	74.0		

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18338.000000	41.0	1000.0	1000.000	Н	8.1	13.0	54.0
19362.000000	40.5	1000.0	1000.000	Н	7.9	13.5	54.0
20222.000000	41.1	1000.0	1000.000	Н	7.7	12.9	54.0
21370.000000	40.4	1000.0	1000.000	Н	7.2	13.7	54.0
22692.000000	41.0	1000.0	1000.000	Н	7.4	13.0	54.0
24230.000000	42.0	1000.0	1000.000	Н	7.7	12.0	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer:Knectek Labs Inc.Test Item:CubiTag CardIdentification:CTAG0302Test Standard:FCC Part 15Test Detail:Radiated EmissionOperation Mode:Transmitting(BLE-High)Climate Condition:20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

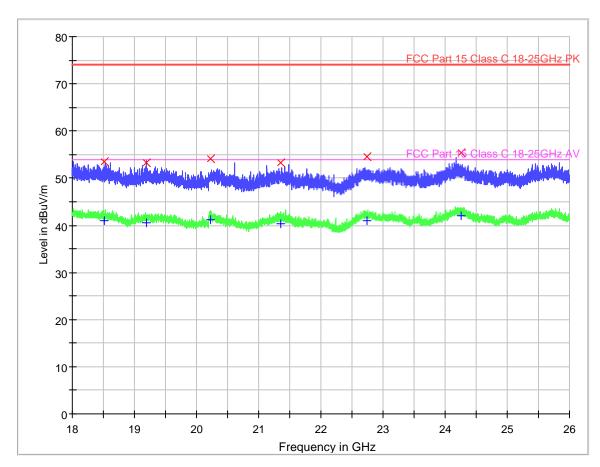
Comment: Test distance is 3m; Vertical

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT



Limit and Margin PK



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Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
18522.000000	53.5	1000.0	1000.000	٧	8.1	20.5	74.0
19192.000000	53.3	1000.0	1000.000	٧	7.9	20.7	74.0
20227.000000	54.1	1000.0	1000.000	٧	7.7	19.9	74.0
21352.000000	53.2	1000.0	1000.000	٧	7.2	20.8	74.0
22739.000000	54.6	1000.0	1000.000	٧	7.4	19.4	74.0
24260.000000	55.4	1000.0	1000.000	٧	7.7	18.7	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18522.000000	40.9	1000.0	1000.000	٧	8.1	13.2	54.0
19192.000000	40.6	1000.0	1000.000	٧	7.9	13.4	54.0
20227.000000	41.1	1000.0	1000.000	٧	7.7	12.9	54.0
21352.000000	40.4	1000.0	1000.000	٧	7.2	13.6	54.0
22739.000000	40.9	1000.0	1000.000	٧	7.4	13.1	54.0
24260.000000	41.9	1000.0	1000.000	٧	7.7	12.1	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver (BLE-Mid)

Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

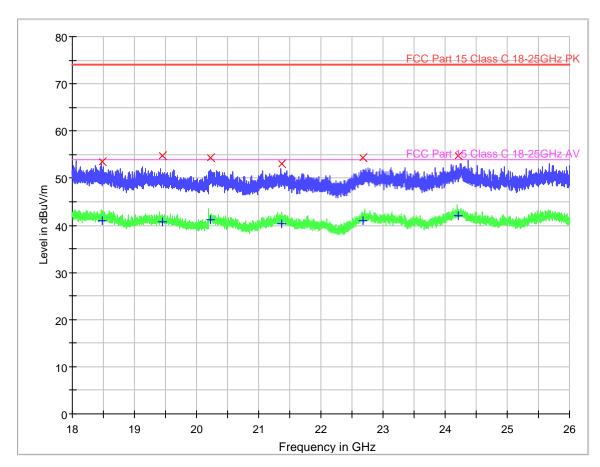
Comment: Test distance is 3m; Horizontal

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)
18490.000000	53.4	40.9	1000.0	1000.000	Н	8.1	20.6	74.0
19449.000000	54.7	40.7	1000.0	1000.000	Н	7.9	19.3	74.0
20231.000000	54.3	41.1	1000.0	1000.000	H	7.7	19.7	74.0
21376.000000	53.1	40.4	1000.0	1000.000	H	7.2	20.9	74.0
22670.000000	54.3	41.0	1000.0	1000.000	H	7.3	19.7	74.0
24205.000000	54.8	42.0	1000.0	1000.000	Ŧ	7.7	19.2	74.0

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Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
18490.000000	53.4	40.9	1000.0	1000.000	Н	8.1	13.1	54.0
19449.000000	54.7	40.7	1000.0	1000.000	Н	7.9	13.3	54.0
20231.000000	54.3	41.1	1000.0	1000.000	Н	7.7	12.9	54.0
21376.000000	53.1	40.4	1000.0	1000.000	Н	7.2	13.6	54.0
22670.000000	54.3	41.0	1000.0	1000.000	Н	7.3	13.0	54.0
24205.000000	54.8	42.0	1000.0	1000.000	Н	7.7	12.0	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver (BLE-Mid)

Climate Condition: 20 ℃, 50 %, 100 k Pa

Test Voltage/ Freq: DC 3V Result: Pass

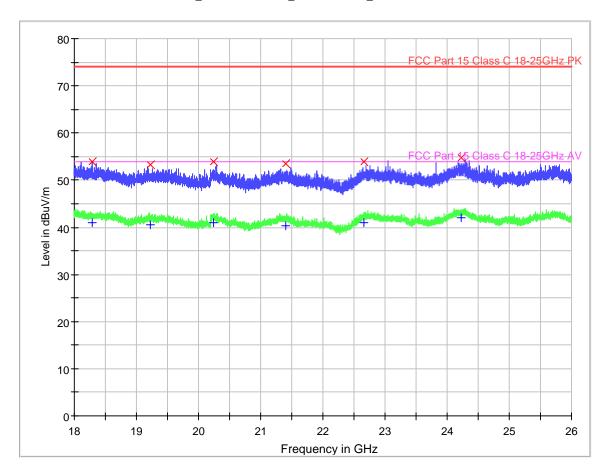
Comment: Test distance is 3m; Vertical

Subrange 1

Frequency Range: 18GHz-26GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREF011-A02-08_18GHz-25GHz_With PreAMP EXT





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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)
18292.000000	53.9	1000.0	1000.000	٧	8.0	20.1	74.0
19224.000000	53.3	1000.0	1000.000	٧	7.9	20.7	74.0
20246.000000	53.9	1000.0	1000.000	٧	7.6	20.1	74.0
21404.000000	53.5	1000.0	1000.000	٧	7.2	20.5	74.0
22665.000000	53.9	1000.0	1000.000	٧	7.3	20.1	74.0
24227.000000	54.8	1000.0	1000.000	٧	7.7	19.2	74.0

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	Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
ĺ	18292.000000	40.9	1000.0	1000.000	٧	8.0	13.1	54.0
ſ	19224.000000	40.6	1000.0	1000.000	٧	7.9	13.4	54.0
	20246.000000	41.0	1000.0	1000.000	٧	7.6	13.0	54.0
ſ	21404.000000	40.3	1000.0	1000.000	٧	7.2	13.7	54.0
	22665.000000	41.0	1000.0	1000.000	٧	7.3	13.0	54.0
ſ	24227.000000	42.0	1000.0	1000.000	٧	7.7	12.0	54.0



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

Low channel

EMC Test Record (Emission)

Common Information

Manufacturer:

Test Item:

Identification:

Test Standard:

Test Detail:

Knectek Labs Inc.

CubiTag Card

CTAG0302

FCC Part 15

Band edge

Operation Mode: Transmitting (BLE-Low)

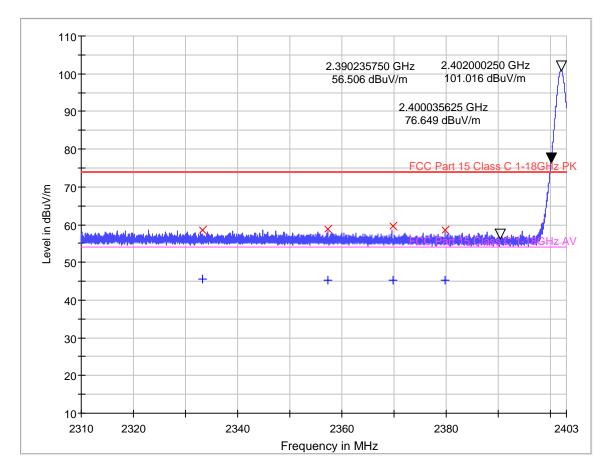
Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907





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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)
2333.320000	58.4	1000.0	1000.000	Н	32.9	15.6	74.0
2357.320000	58.8	1000.0	1000.000	Н	33.0	15.2	74.0
2369.680000	59.6	1000.0	1000.000	Н	33.0	14.5	74.0
2379.760000	58.6	1000.0	1000.000	Н	33.0	15.4	74.0

Freque (MH		Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2333.	320000	45.5	1000.0	1000.000	Н	32.9	8.6	54.0
2357.	320000	45.3	1000.0	1000.000	Н	33.0	8.7	54.0
2369.	680000	45.3	1000.0	1000.000	Н	33.0	8.7	54.0
2379.	760000	45.2	1000.0	1000.000	Н	33.0	8.8	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Band edge

Operation Mode: Transmitting (BLE-Low)

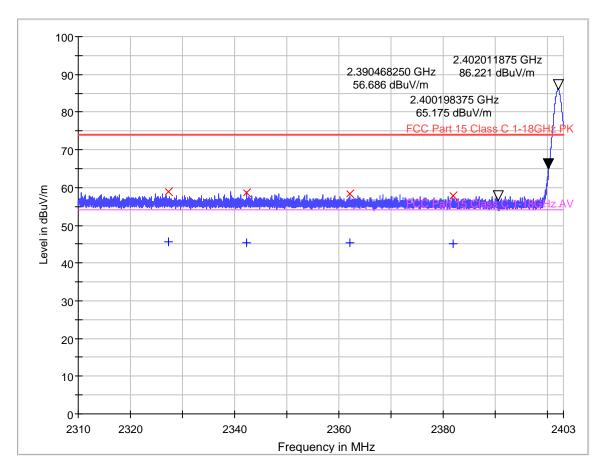
Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V Result: Pass Comment: Vertical

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907





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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)
2327.200000	59.0	1000.0	1000.000	٧	32.9	15.1	74.0
2342.320000	58.5	1000.0	1000.000	٧	32.9	15.5	74.0
2362.120000	58.3	1000.0	1000.000	٧	33.0	15.7	74.0
2381.800000	57.8	1000.0	1000.000	٧	33.0	16.2	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2327.200000	45.5	1000.0	1000.000	٧	32.9	8.5	54.0
2342.320000	45.4	1000.0	1000.000	٧	32.9	8.6	54.0
2362.120000	45.3	1000.0	1000.000	٧	33.0	8.7	54.0
2381.800000	45.1	1000.0	1000.000	٧	33.0	8.9	54.0



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High channel

EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Band edge

Operation Mode: Transmitting (BLE-High)

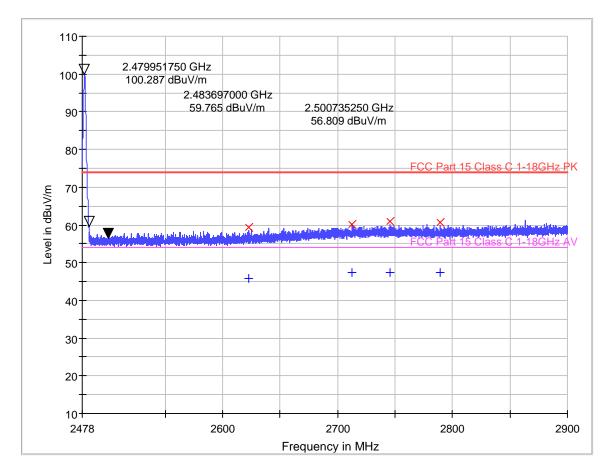
Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V
Result: Pass
Comment: Horizontal

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907





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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)
2622.520000	59.4	1000.0	1000.000	Н	33.7	14.6	74.0
2712.160000	60.1	1000.0	1000.000	Н	34.1	13.9	74.0
2745.640000	60.9	1000.0	1000.000	Н	34.2	13.1	74.0
2789.320000	60.5	1000.0	1000.000	Н	34.4	13.5	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2622.520000	45.8	1000.0	1000.000	Н	33.7	8.2	54.0
2712.160000	47.3	1000.0	1000.000	Н	34.1	6.7	54.0
2745.640000	47.4	1000.0	1000.000	Н	34.2	6.6	54.0
2789.320000	47.4	1000.0	1000.000	Н	34.4	6.6	54.0



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EMC Test Record (Emission)

Common Information

Manufacturer: Knectek Labs Inc.
Test Item: CubiTag Card
Identification: CTAG0302
Test Standard: FCC Part 15
Test Detail: Band edge

Operation Mode: Transmitting (BLE-High)

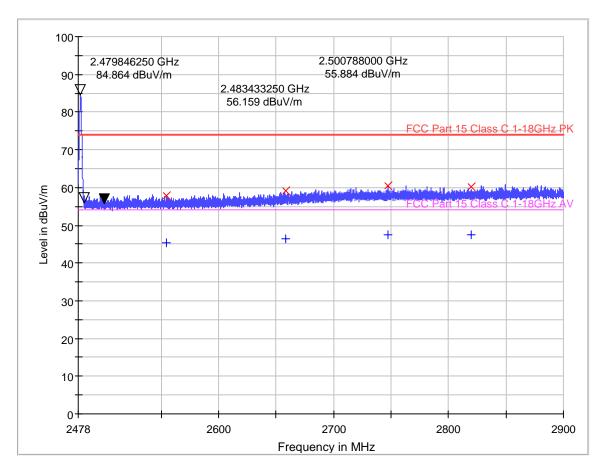
Climate Condition: 22 °C, 56 %, 100 kPa

Test Voltage/ Freq: DC 3V
Result: Pass
Comment: Vertical

Subrange 1

Frequency Range: 1GHz-18GHz Receiver: TUV FSP30

Transducer: TUV SAC HF907/ TUV FSP30-TUV SAC HF907





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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)
2554.698500	57.8	1000.0	1000.000	٧	33.4	16.2	74.0
2658.405000	59.2	1000.0	1000.000	٧	33.9	14.8	74.0
2747.816250	60.4	1000.0	1000.000	٧	34.3	13.6	74.0
2819.661750	60.1	1000.0	1000.000	٧	34.5	13.9	74.0

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2554.698500	45.3	1000.0	1000.000	٧	33.4	8.7	54.0
2658.405000	46.4	1000.0	1000.000	٧	33.9	7.6	54.0
2747.816250	47.4	1000.0	1000.000	٧	34.3	6.6	54.0
2819.661750	47.5	1000.0	1000.000	٧	34.5	6.5	54.0