

1.6 Transmitter Spurious Emissions for Bluetooth BLE, 18GHz-26.5GHz

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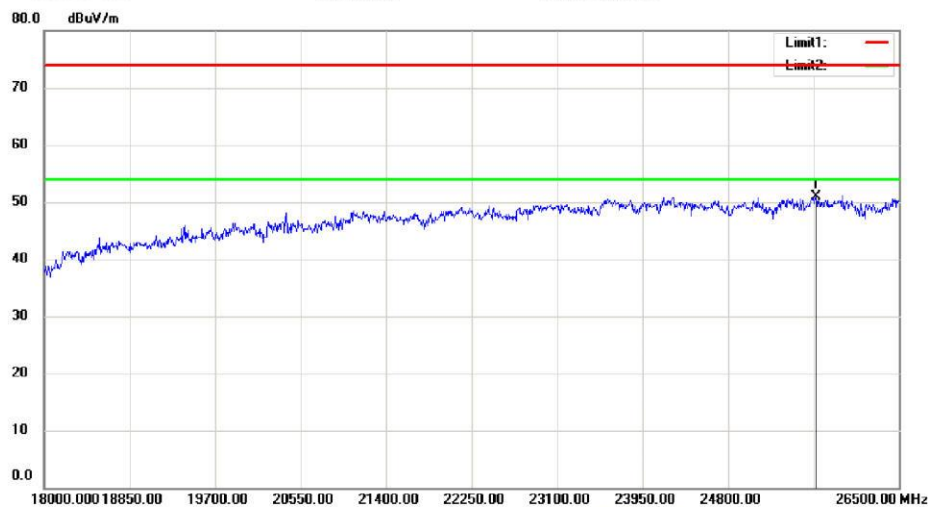


Radiated Emission Measurement

File: TUV 2017

Data: #1976

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	25675.50	87.17	-36.19	50.98	74.00	-23.02	peak		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUV 2017\Data: #1976

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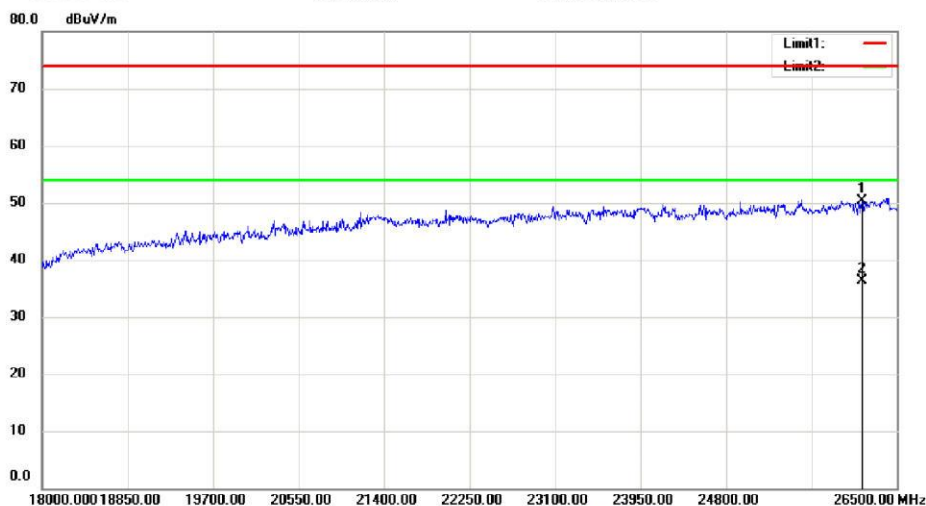


Radiated Emission Measurement

File: TUV 2017

Data: #1977

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		26151.50	85.84	-35.61	50.23	74.00	-23.77	peak		
2	*	26151.50	71.89	-35.61	36.28	54.00	-17.72	AVG		

*:Maximum data x:Over limit l:over margin

Operator: KK

File: TUV 2017\Data: #1977

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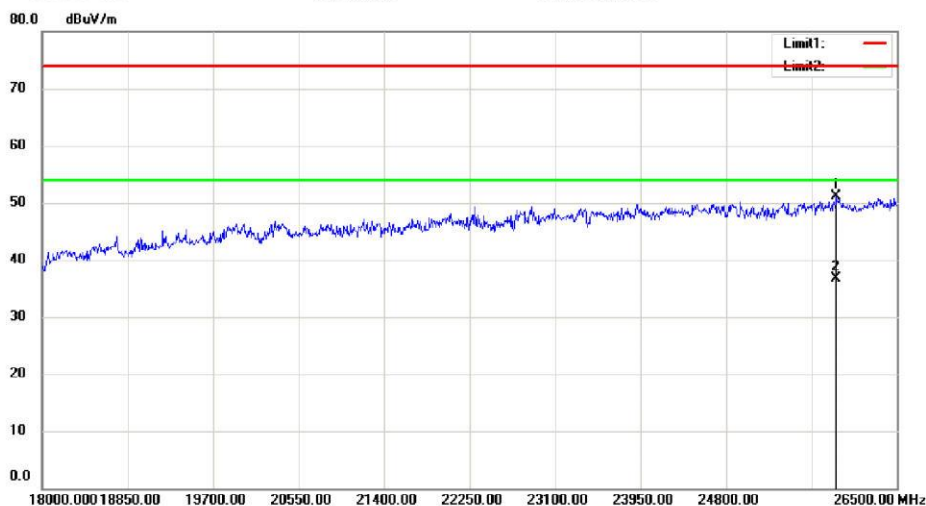


Radiated Emission Measurement

File: TUV 2017

Data: #1978

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2440

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		25896.50	86.94	-35.92	51.02	74.00	-22.98	peak		
2	*	25896.50	72.64	-35.92	36.72	54.00	-17.28	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUV 2017\Data: #1978

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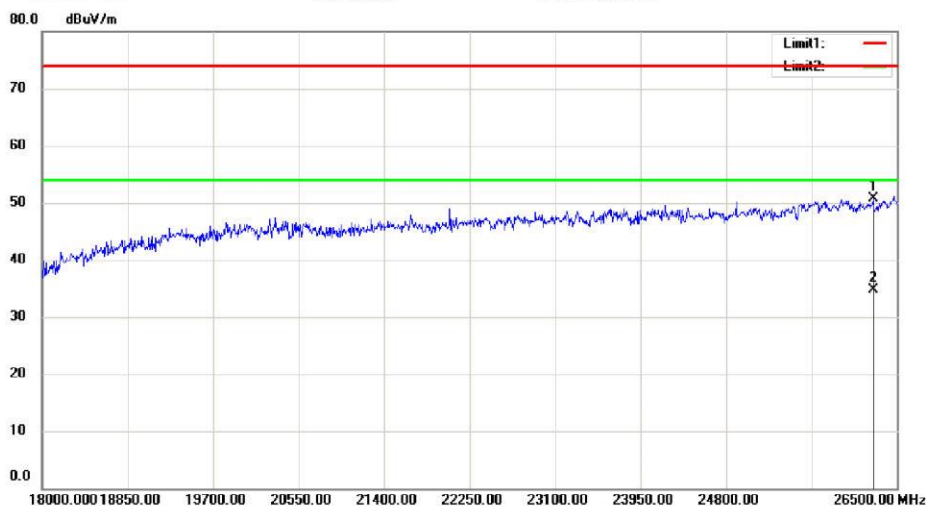


Radiated Emission Measurement

File: TUV 2017

Data: #1979

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		26262.00	86.20	-35.47	50.73	74.00	-23.27	peak		
2	*	26262.00	70.21	-35.47	34.74	54.00	-19.26	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUV 2017\Data: #1979

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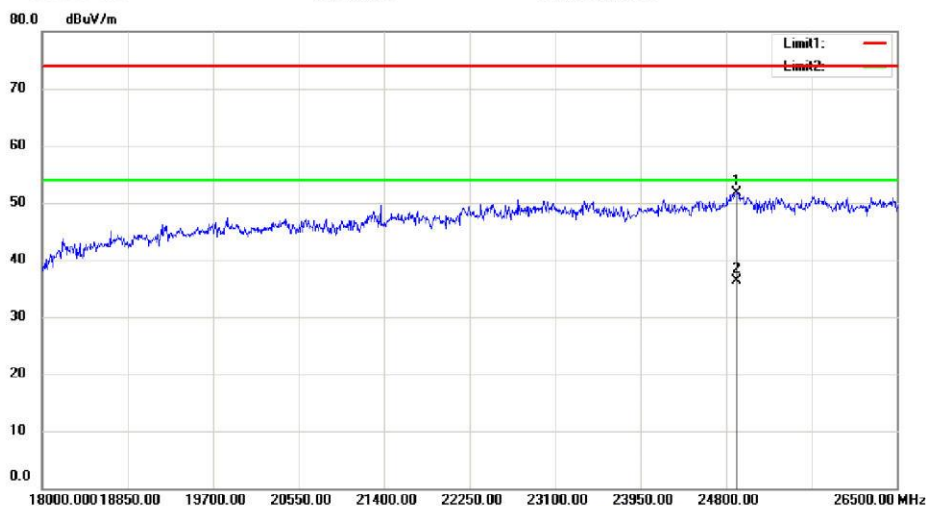


Radiated Emission Measurement

File: TUV 2017

Data: #1980

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		24902.00	88.74	-37.02	51.72	74.00	-22.28	peak		
2	*	24902.00	73.32	-37.02	36.30	54.00	-17.70	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUV 2017\Data: #1980

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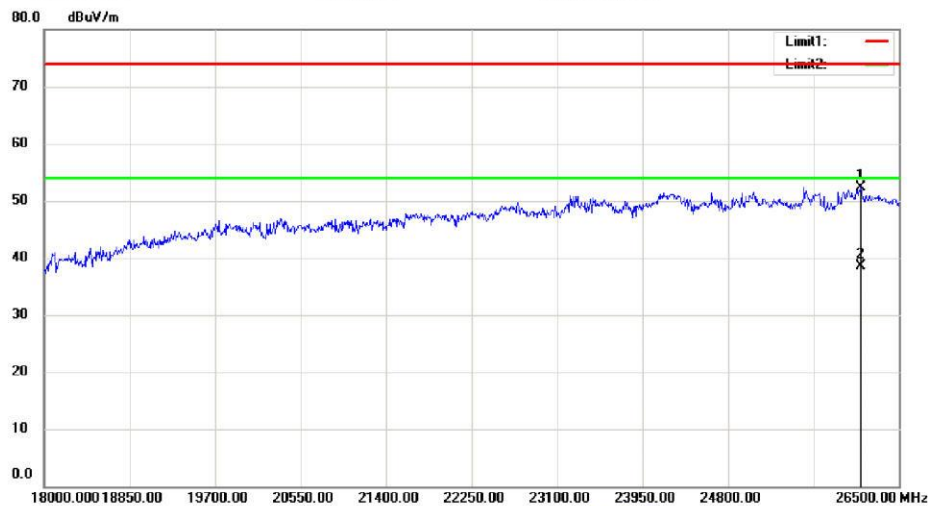


Radiated Emission Measurement

File: TUV 2017

Data: #1981

Date: 2017/07/06



Site: 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		26117.50	87.98	-35.65	52.33	74.00	-21.67	peak		
2	*	26117.50	74.15	-35.65	38.50	54.00	-15.50	AVG		

*:Maximum data x:Over limit l:over margin

Operator: KK

File: TUV 2017\Data: #1981

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1.7 Restricted Bands for Bluetooth Classic

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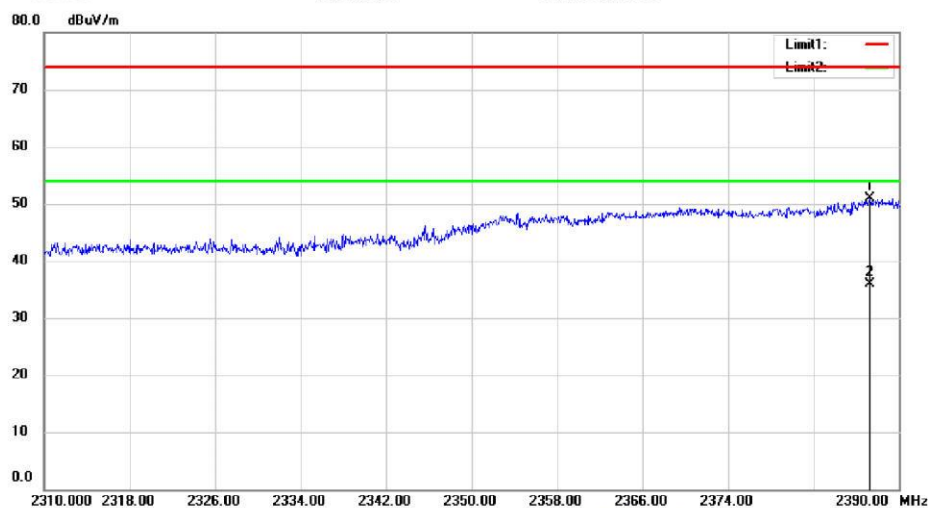


Radiated Emission Measurement

File :TUV

Data :#2182

Date: 2017/07/06



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode:GFSK 2402

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2387.280	43.29	7.59	50.88	74.00	-23.12	peak			
2	*	2387.280	28.31	7.59	35.90	54.00	-18.10	AVG			

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#2182

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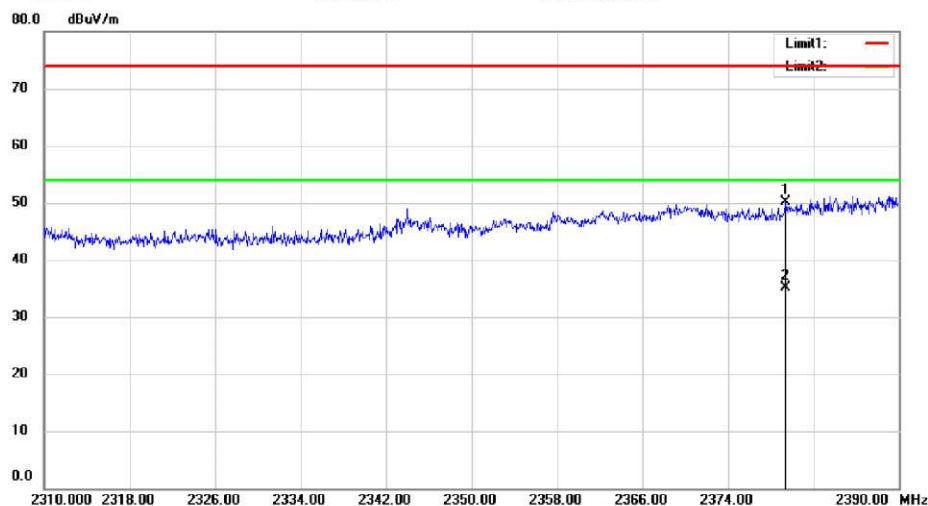


Radiated Emission Measurement

File: TUV

Data: #2183

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2379.360	42.57	7.53	50.10	74.00	-23.90	peak		
2	*	2379.360	27.67	7.53	35.20	54.00	-18.80	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData :#2183

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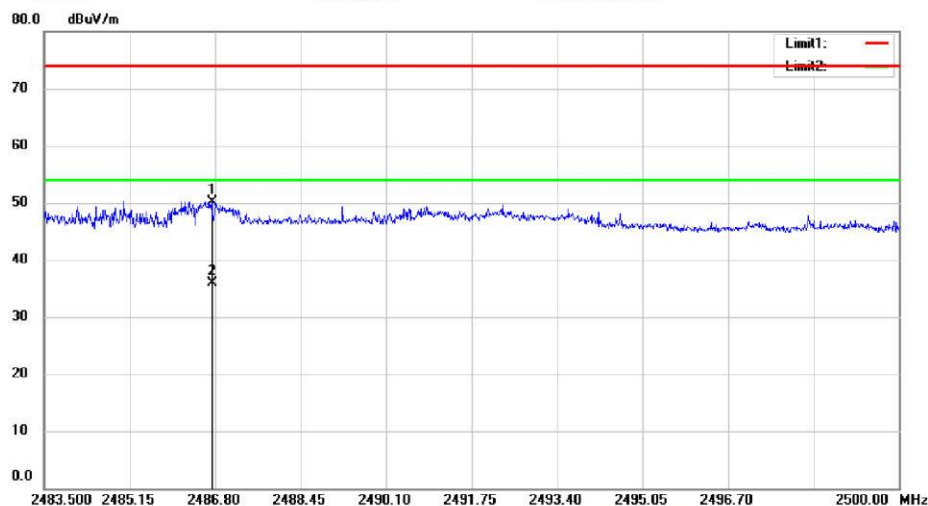


Radiated Emission Measurement

File: TUV

Data: #2184

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: GFSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2486.734	41.86	8.31	50.17	74.00	-23.83	peak		
2	*	2486.734	27.59	8.31	35.90	54.00	-18.10	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2184

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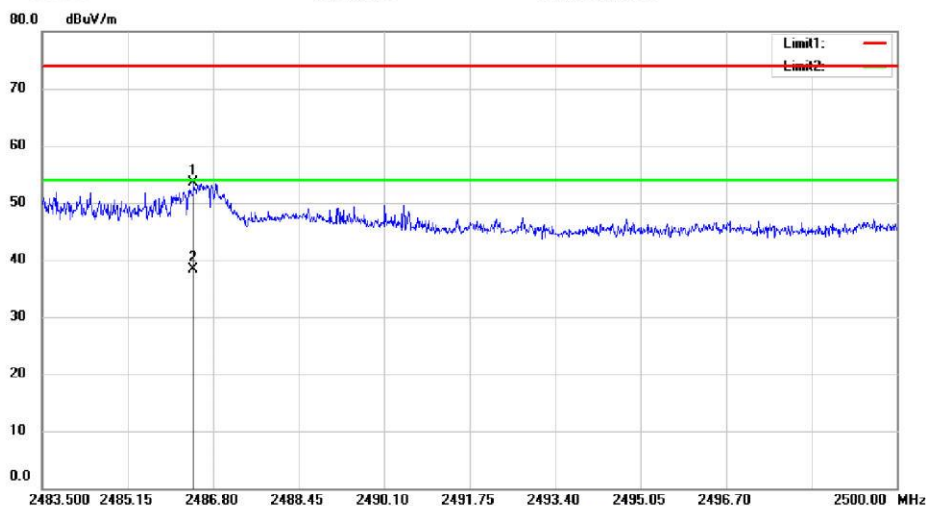


Radiated Emission Measurement

File: TUV

Data: #2185

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2486.421	45.26	8.31	53.57	74.00	-20.43	peak		
2	*	2486.421	30.09	8.31	38.40	54.00	-15.60	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2185

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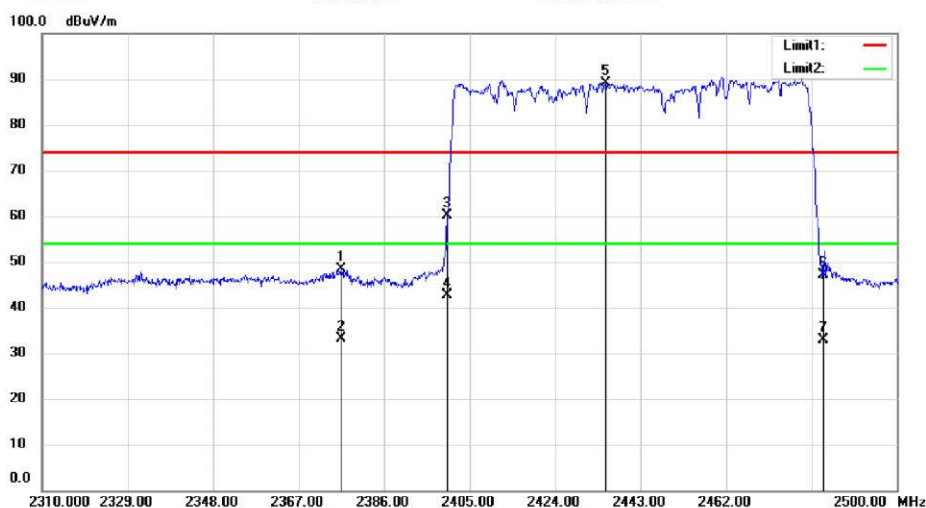


Radiated Emission Measurement

File: TUV

Data: #2186

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: GFSK Hopping

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2376.500	40.84	7.51	48.35	74.00	-25.65	peak		
2		2376.500	25.59	7.51	33.10	54.00	-20.90	AVG		
3		2400.000	52.54	7.68	60.22	74.00	-13.78	peak		
4		2400.000	34.92	7.68	42.60	54.00	-11.40	AVG		
5	*	2435.210	81.12	7.94	89.06	74.00	15.06	peak		
6		2483.500	38.81	8.28	47.09	74.00	-26.91	peak		
7		2483.500	24.62	8.28	32.90	54.00	-21.10	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2186

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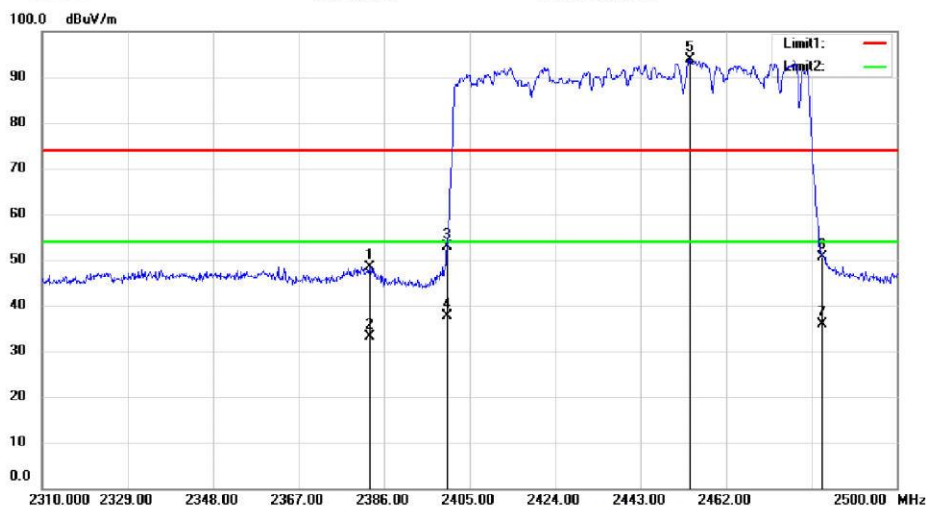


Radiated Emission Measurement

File: TUV

Data: #2187

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: GFSK Hopping

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2382.770	40.91	7.56	48.47	74.00	-25.53	peak		
2		2382.770	25.54	7.56	33.10	54.00	-20.90	AVG		
3		2400.000	45.22	7.68	52.90	74.00	-21.10	peak		
4		2400.000	29.92	7.68	37.60	54.00	-16.40	AVG		
5	*	2454.020	85.85	8.07	93.92	74.00	19.92	peak		
6		2483.500	42.42	8.28	50.70	74.00	-23.30	peak		
7		2483.500	27.62	8.28	35.90	54.00	-18.10	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2187

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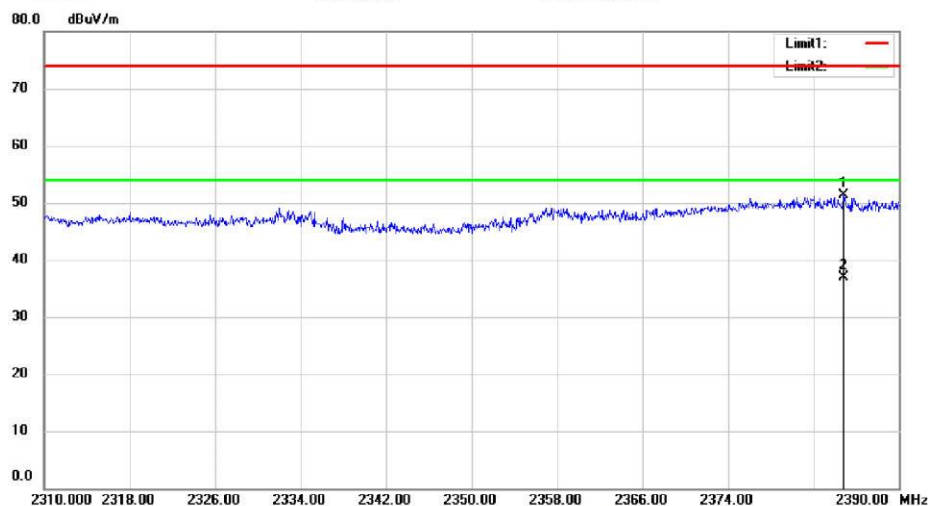


Radiated Emission Measurement

File: TUV

Data: #2176

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2384.800	43.73	7.57	51.30	74.00	-22.70	peak		
2	*	2384.800	29.33	7.57	36.90	54.00	-17.10	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData :#2176

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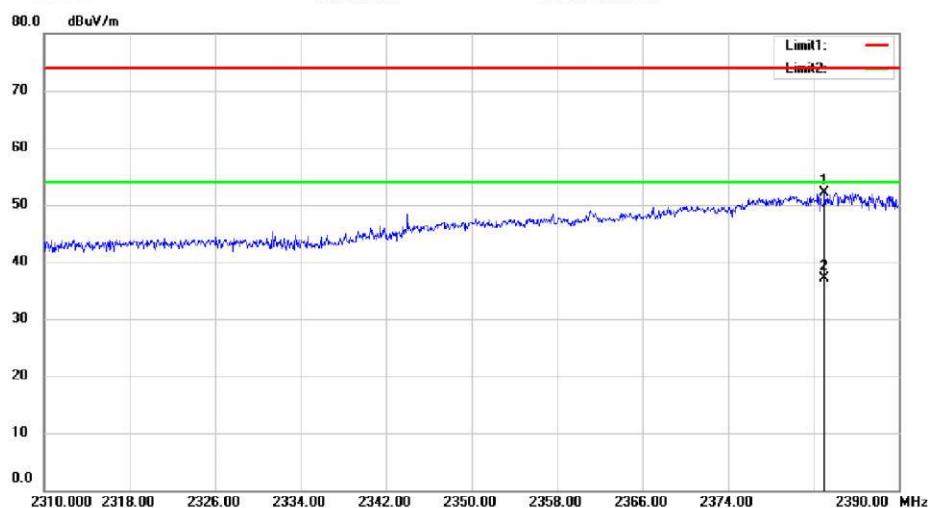


Radiated Emission Measurement

File: TUV

Data: #2177

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2383.040	44.55	7.56	52.11	74.00	-21.89	peak		
2	*	2383.040	29.64	7.56	37.20	54.00	-16.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData :#2177

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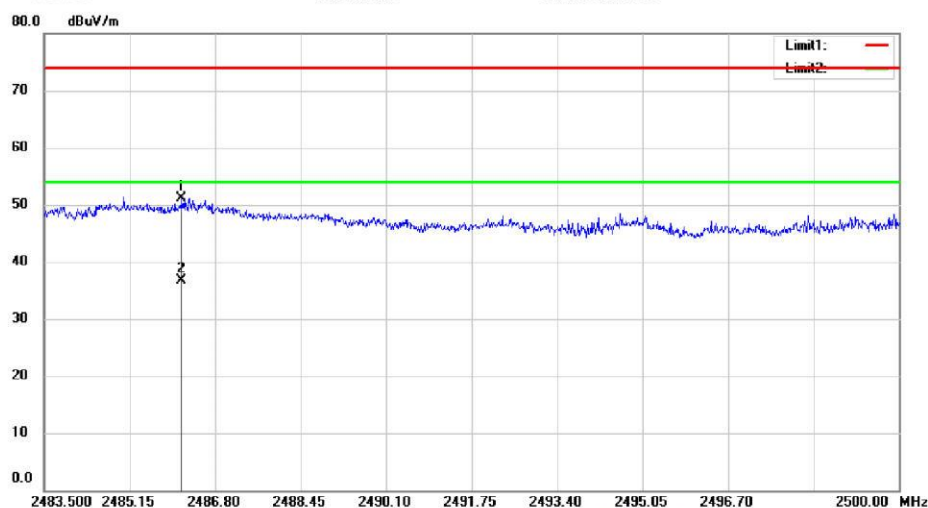


Radiated Emission Measurement

File: TUV

Data: #2178

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2486.157	42.85	8.30	51.15	74.00	-22.85	peak		
2	*	2486.157	28.40	8.30	36.70	54.00	-17.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData: #2178

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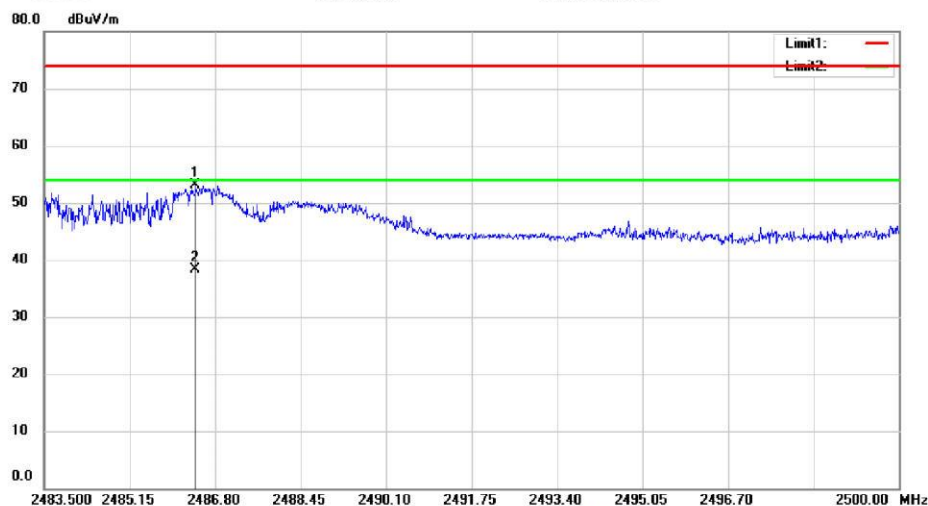


Radiated Emission Measurement

File: TUV

Data: #2179

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2486.421	44.76	8.31	53.07	74.00	-20.93	peak		
2	*	2486.421	30.09	8.31	38.40	54.00	-15.60	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData :#2179

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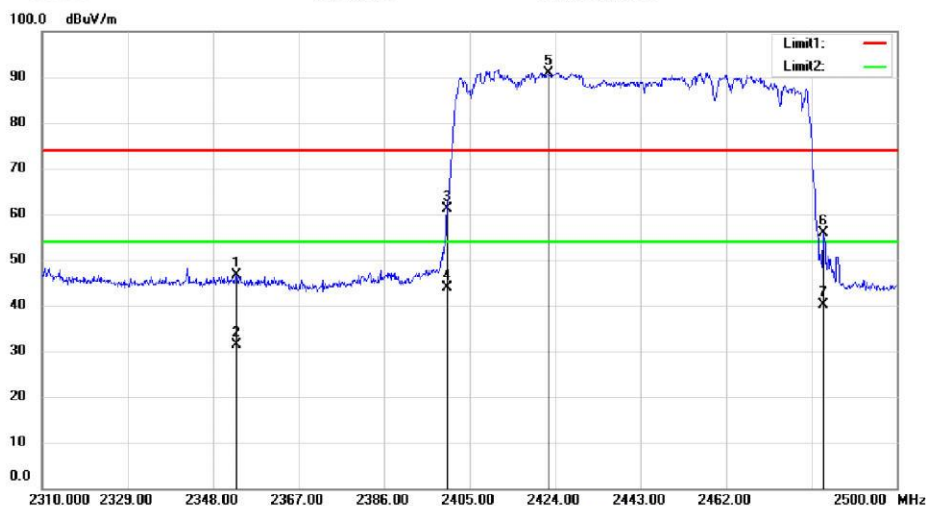


Radiated Emission Measurement

File: TUV

Data: #2180

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK Hopping

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2353.130	39.20	7.35	46.55	74.00	-27.45	peak		
2		2353.130	24.05	7.35	31.40	54.00	-22.60	AVG		
3		2400.000	53.36	7.68	61.04	74.00	-12.96	peak		
4		2400.000	36.22	7.68	43.90	54.00	-10.10	AVG		
5	*	2422.480	83.14	7.84	90.98	74.00	16.98	peak		
6		2483.500	47.64	8.28	55.92	74.00	-18.08	peak		
7		2483.500	31.82	8.28	40.10	54.00	-13.90	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2180

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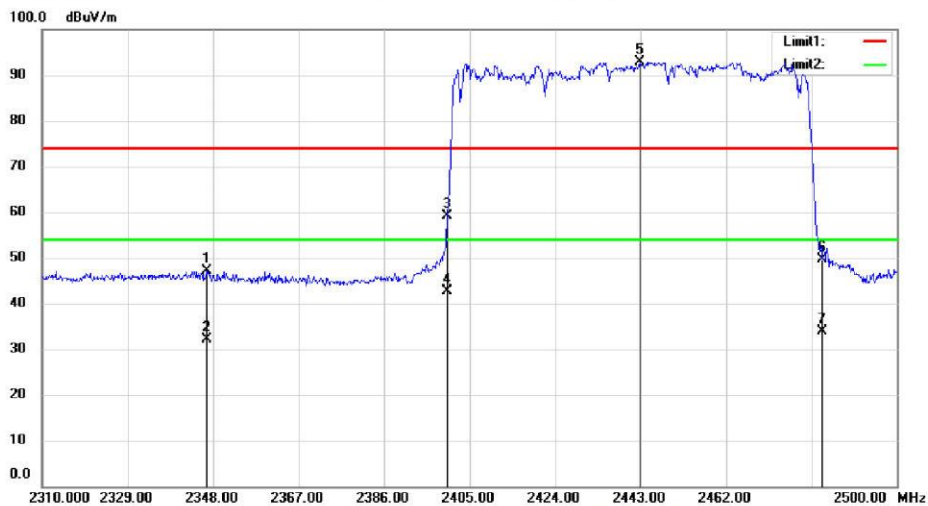


Radiated Emission Measurement

File: TUV

Data: #2181

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: 8DPSK Hopping

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2346.480	39.80	7.29	47.09	74.00	-26.91	peak		
2		2346.480	24.81	7.29	32.10	54.00	-21.90	AVG		
3		2400.000	51.51	7.68	59.19	74.00	-14.81	peak		
4		2400.000	34.92	7.68	42.60	54.00	-11.40	AVG		
5	*	2442.810	84.99	7.99	92.98	74.00	18.98	peak		
6		2483.500	41.29	8.28	49.57	74.00	-24.43	peak		
7		2483.500	25.62	8.28	33.90	54.00	-20.10	AVG		

*: Maximum data x: Over limit !: over margin

Operator: KK

File: TUVData: #2181

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1.8 Restricted Bands for Bluetooth BLE

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www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

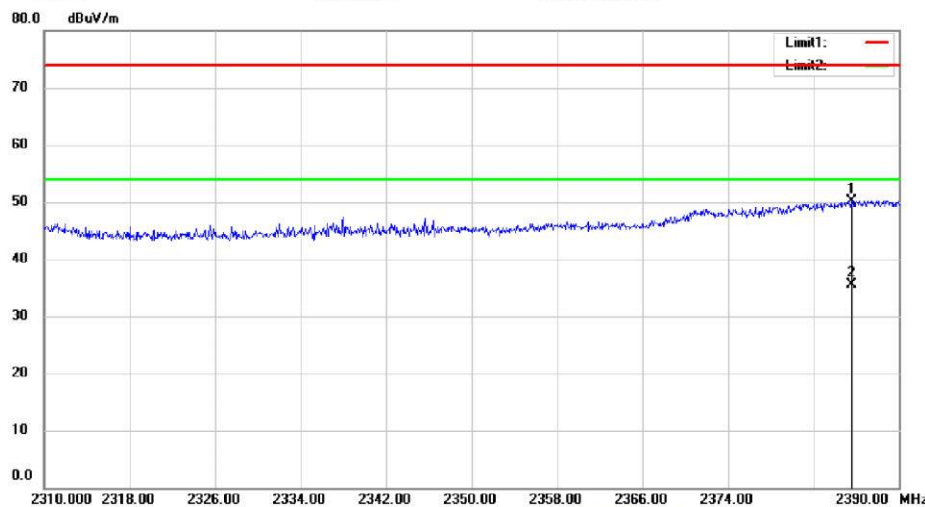


Radiated Emission Measurement

File: TUV

Data: #2188

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE 2402

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2385.520	42.56	7.58	50.14	74.00	-23.86	peak		
2	*	2385.520	28.02	7.58	35.60	54.00	-18.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData: #2188

Page: 1

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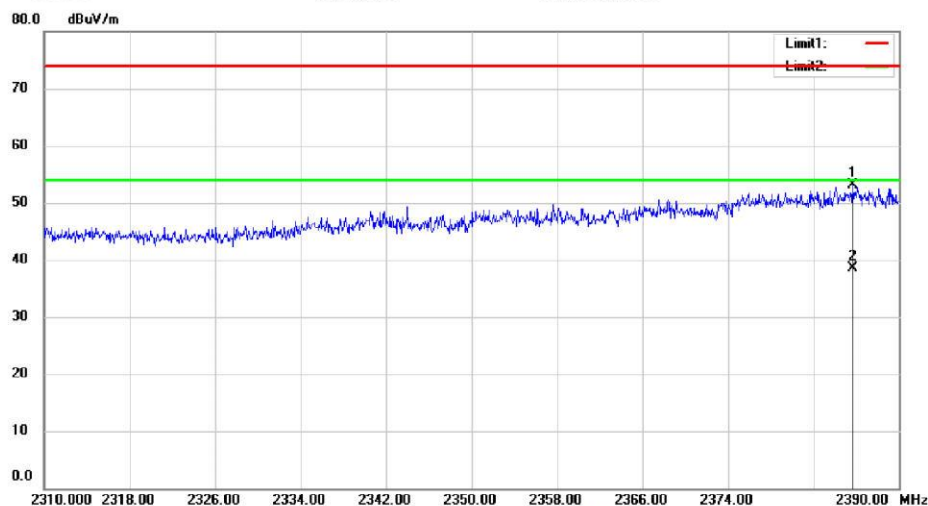


Radiated Emission Measurement

File: TUV

Data: #2189

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2385.680	45.44	7.58	53.02	74.00	-20.98	peak		
2	*	2385.680	31.02	7.58	38.60	54.00	-15.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData :#2189

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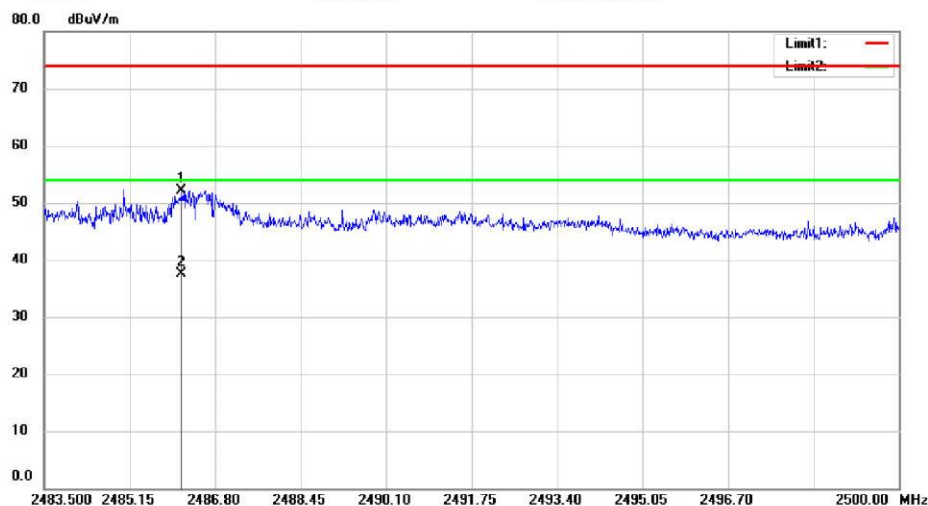


Radiated Emission Measurement

File: TUV

Data: #2190

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2486.157	43.85	8.30	52.15	74.00	-21.85	peak		
2	*	2486.157	29.30	8.30	37.60	54.00	-16.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData :#2190

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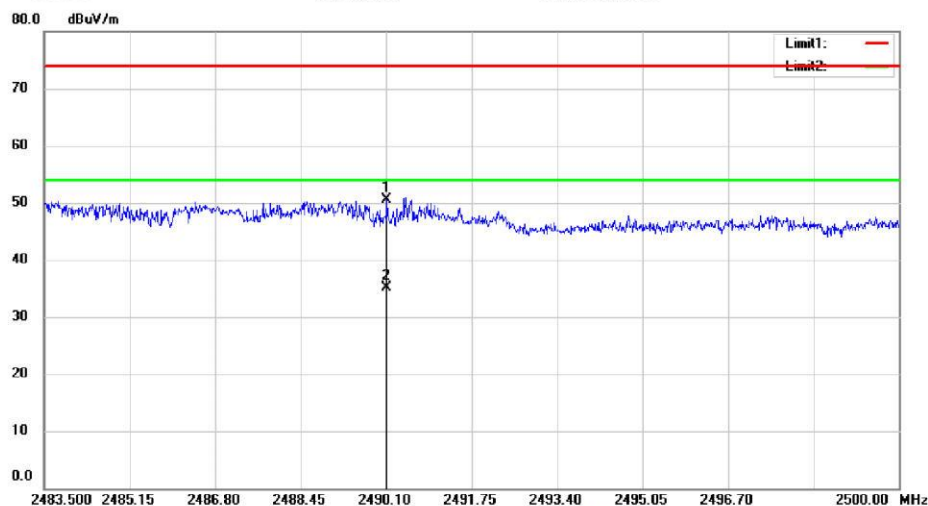


Radiated Emission Measurement

File: TUV

Data: #2191

Date: 2017/07/06



Site: 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2490.117	42.09	8.33	50.42	74.00	-23.58	peak		
2	*	2490.117	26.87	8.33	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File: TUVData: #2191

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2. Conducted Emissions

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Conducted Emission Measurement



Site Conduction #2 Phase: **L1** Temperature: 21
Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 53 %
EUT: Diving Camera
M/N: Paralenz Camera
Mode: BT/WIFI MODE
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1924	35.35	9.63	44.98	63.93	-18.95	QP	
2		0.1924	24.10	9.63	33.73	53.93	-20.20	AVG	
3		0.2620	34.01	9.65	43.66	61.37	-17.71	QP	
4		0.2620	19.97	9.65	29.62	51.37	-21.75	AVG	
5	*	0.6860	31.64	9.76	41.40	56.00	-14.60	QP	
6		0.6860	13.63	9.76	23.39	46.00	-22.61	AVG	
7		2.2780	29.08	9.86	38.94	56.00	-17.06	QP	
8		2.2780	12.60	9.86	22.46	46.00	-23.54	AVG	
9		3.2700	30.98	9.86	40.84	56.00	-15.16	QP	
10		3.2700	14.99	9.86	24.85	46.00	-21.15	AVG	
11		7.9260	34.03	10.13	44.16	60.00	-15.84	QP	
12		7.9260	20.89	10.13	31.02	50.00	-18.98	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File : TUVData : #1282

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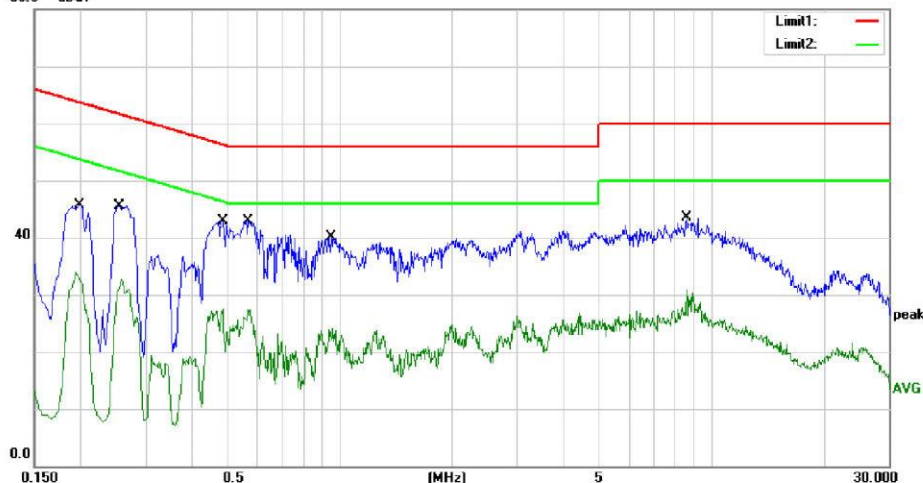


Conducted Emission Measurement

File: TUV
80.0 dBuV

Data: #1283

Date: 17/06/21/



Site: Conduction #2

Phase: N

Temperature: 21

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Diving Camera

M/N: Paralenz Camera

Mode: BT/WIFI MODE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1980	36.10	9.63	45.73	63.69	-17.96	QP	
2		0.1980	24.32	9.63	33.95	53.69	-19.74	AVG	
3		0.2540	35.86	9.65	45.51	61.63	-16.12	QP	
4		0.2540	22.96	9.65	32.61	51.63	-19.02	AVG	
5		0.4780	33.10	9.71	42.81	56.37	-13.56	QP	
6		0.4780	17.85	9.71	27.56	46.37	-18.81	AVG	
7	*	0.5660	33.21	9.73	42.94	56.00	-13.06	QP	
8		0.5660	17.52	9.73	27.25	46.00	-18.75	AVG	
9		0.9460	30.16	9.84	40.00	56.00	-16.00	QP	
10		0.9460	14.32	9.84	24.16	46.00	-21.84	AVG	
11		8.5700	33.14	10.31	43.45	60.00	-16.55	QP	
12		8.5700	20.57	10.31	30.88	50.00	-19.12	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File: TUVData: #1283

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