FCC Test Report

FCC ID	:	**SQG-CL4490**
Equipment	:	**ConnexLink 900MHz 1W RS232 ConnexLink 900MHz 1W RS485 ConnexLink 900MHz 1W RS232/422/485 Refer to section 1.1.1 for more details**
Model No.	:	**CL4490-1000-232 ; CL4790-1000-232 CL4490-1000-485 ; CL4790-1000-485 CL4490-1000-PRO Refer to section 1.1.1 for more details**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard	:	**47 CFR FCC Part 15.247**
Received Date	:	**Mar. 29, 2022**
Tested Date	:	**Mar. 29 ~ Apr. 25, 2022**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR232903	Rev. 01	Initial issue	Jul. 29, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.204MHz 52.26 (Margin -11.19dB) - QP	Pass
15.247(d) 15.209	TX Unwanted Emissions	[dBuV/m at 3m]: 73.89MHz 35.77 (Margin -4.23dB) - PK	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(2)(3)	Conducted Output Power	Power [dBm]: 28.12	Pass
15.247(a)(1)(i)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(i)	20 dB and Occupied Bandwidth	Meet the requirement of limit	Pass
15.247(f)	Dwell Time	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Model Name	Product Name	Description
CL4490-1000-232	ConnexLink 900MHz 1W RS232	DB-9 Male (RS232)
CL4790-1000-232	ConnexLink 900MHz 1W RS232	DB-9 Male (RS232) / SW different
CL4490-1000-485	ConnexLink 900MHz 1W RS485	Terminal Block (RS485)
CL4790-1000-485	ConnexLink 900MHz 1W RS485	Terminal Block (RS485) / SW different
CL4490-1000-PRO	ConnexLink 900MHz 1W RS232/422/485	DB-9 Female/DIP Switch

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	**Ch. Freq. (MHz)**	**Channel List**	**Data Rate**	**Channel Bandwidth (kHz)**
902 ~ 928	902 ~ 928	50 channels	76.8kbps	145
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: The device uses FSK modulation. Note 3: The device supports FHSS mode.				

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Gain (dBi)
1	S467AH-915S	dipole	R-SMA	2.0
2	S331AH-915	dipole	R-SMA	2.0

Note: Antenna 1 with worst gain was chosen for final test

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter

1.1.5 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: ITE Model: MU12AY120100-A1 I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded without core
2	RS232 (for CL4x90-1000-PRO)	1.85m non-shielded without core
3	RS232 (for CL4x90-1000-232)	1.85m non-shielded without core

1.1.6 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	902.213	13	909.06	26	915.903	39	922.751
1	902.74	14	909.585	27	916.431	40	923.278
2	903.267	15	910.111	28	916.958	41	923.805
3	903.795	16	910.638	29	917.486	42	924.333
4	904.321	17	911.167	30	918.012	43	924.858
5	904.846	18	911.692	31	918.538	44	925.385
6	905.375	19	912.217	32	919.063	45	925.911
7	905.9	20	912.743	33	919.591	46	926.439
8	906.428	21	913.27	34	920.116	47	926.965
9	906.952	22	913.7	35	920.643	48	927.492
10	907.478	23	914.325	36	921.172	49	927.256
11	908.01	24	914.852	37	921.697	---	---
12	908.532	25	915.378	38	922.223	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	Laird Technologies Config, Version: V6.07	
Mode	**Duty Cycle (%)**	**Duty Factor (dB)**
FSK	100.00%	0.00

1.1.8 Power Index of Test Tool

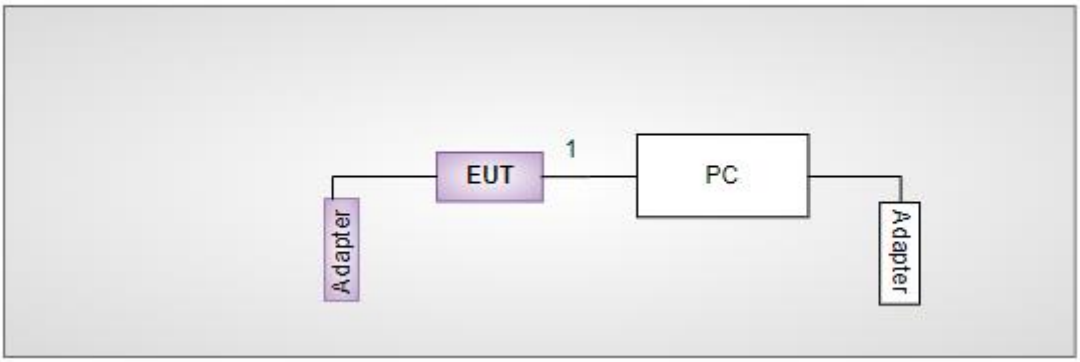
Test Frequency (MHz)	Power Index
902.213	default
915.378	default
927.492	default

1.2 Local Support Equipment List

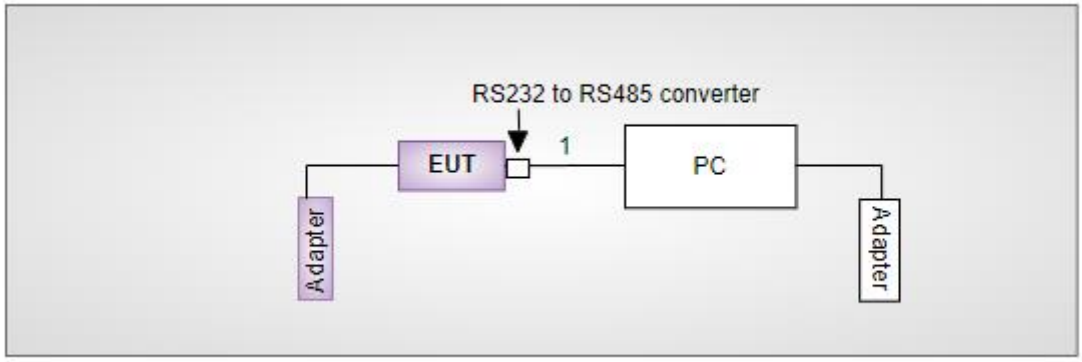
Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	PC	MSI	Cubi B164	---	Provided by applicant.
2	RS232 to RS485 converter	UTEK	UT-2201	---	Provided by applicant.
3	PC adapter	AcBel	ADC027	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram (Model: CL4490-1000-PRO / CL4490-1000-232)



No.	Signal cable / Length (m)
1	RS232, 1.85m non-shielded.

Test Setup Diagram (Model: CL4490-1000-485)	
	
No.	**Signal cable / Length (m)**
1	RS232, 1.85m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Apr. 19, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101295	Jan. 12, 2022	Jan. 11, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May. 25, 2021	May. 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Apr. 11 ~ Apr. 13, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 29 ~ Apr. 25, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
TX Unwanted Emission ≤ 1GHz	±3.41 dB
TX Unwanted Emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Radiated / Conducted Measurement	Test Configuration	Mode
AC Power Line Conducted Emission	FSK	902.213 / 915.378 / 927.492	Conducted	1, 2, 3	Tx
TX Unwanted Emissions ≤ 1GHz	FSK	902.213 / 915.378 / 927.492	Radiated	1, 2, 3	Tx
TX Unwanted Emissions >1GHz	FSK	902.213 / 915.378 / 927.492	Radiated	1, 3	Tx
Conducted Output Power Hopping Channel Separation 20dB and Occupied bandwidth	FSK	902.213 / 915.378 / 927.492	Conducted	1, 3	Tx
Number of Hopping Channels	FSK	902.213	Conducted	1, 3	Tx
Dwell Time	FSK	902.213	Conducted	1, 3, 4	Tx
Band Edge	FSK	902.213 / 927.492	Conducted	1, 3	Tx

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
2. Test configurations are listed as below:
   1) Configuration 1: Model: CL4490-1000-232
   2) Configuration 2: Model: CL4490-1000-485
   3) Configuration 3: Model: CL4490-1000-PRO
   4) Configuration 4: Model: CL4790-1000-232

3 Transmitter Test Results

3.1 TX Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of TX Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

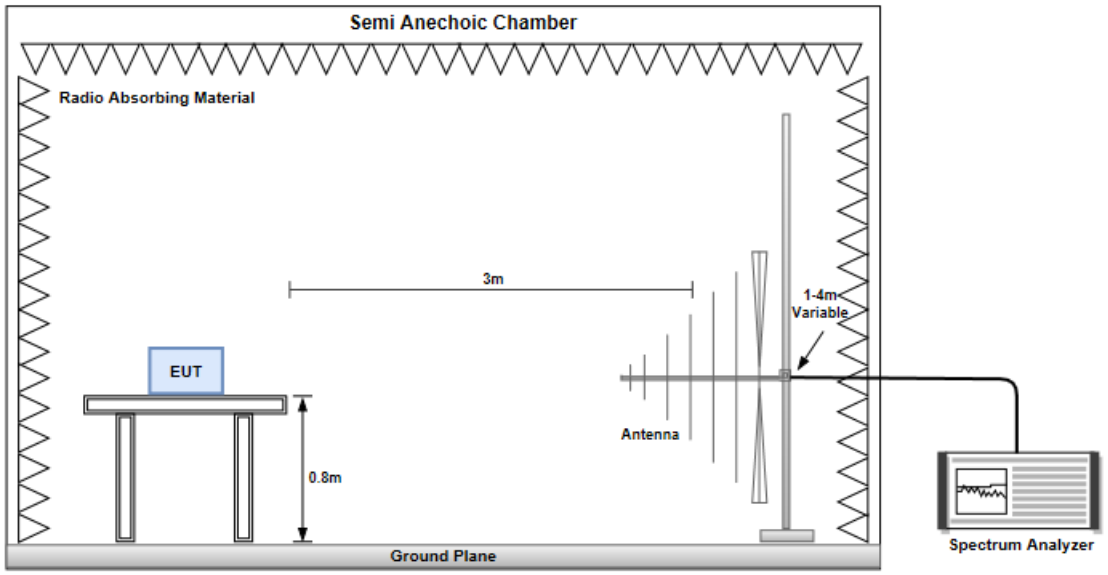
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

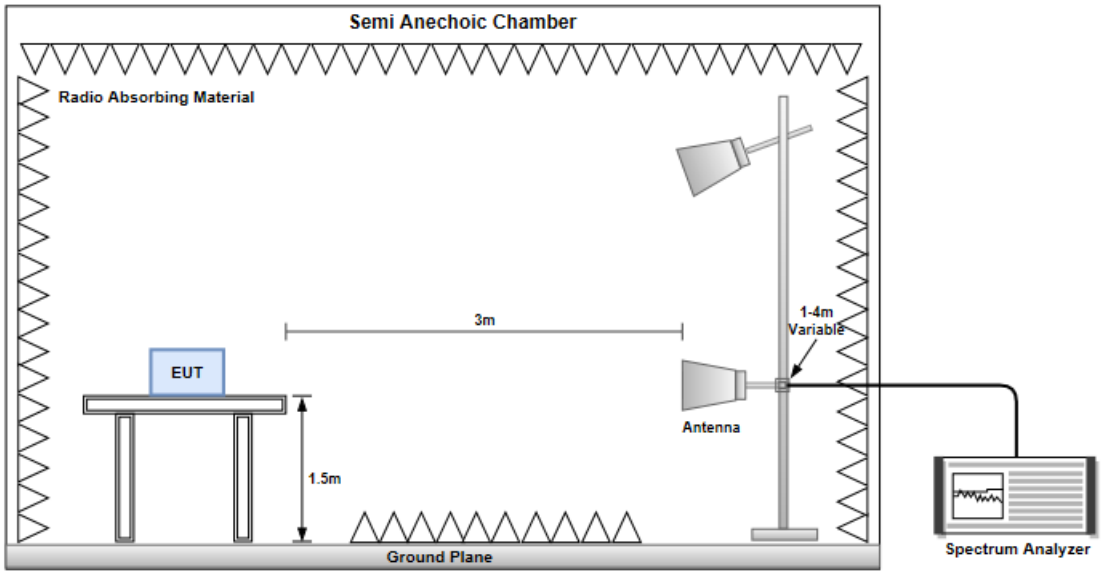
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.4 Test Results

Refer to Appendix A.

3.2 TX Unwanted Emissions into Non-Restricted Frequency Bands

3.2.1 Limit of TX Unwanted Emissions into Non-Restricted Frequency Bands

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.2.2 Test Procedures

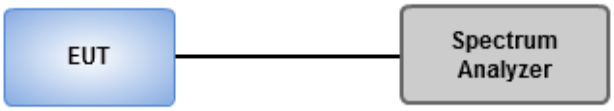
Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

Unwanted Emissions Level Measurement

1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23~24°C / 65~68%	Tested By	Aska Huang

Refer to Appendix B.

3.3 Conducted Output Power

3.3.1 Limit of Conducted Output Power

1W

3.3.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power senor and meter is 50MHz
2 If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power

3.3.3 Test Setup

3.3.4 Test Results

Ambient Condition	23~24°C / 65~68%	**Tested By**	Aska Huang

Refer to Appendix C.

3.4 Number of Hopping Frequency

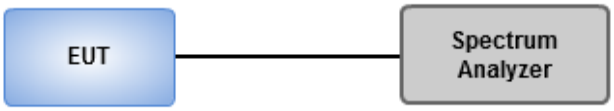
3.4.1 Limit of Number of Hopping Frequency

Number of Hopping Frequencies Limit for Frequency Hopping Systems		
☒	902-928 MHz Band:	
	☒	N ≥ 50, 20 dB bandwidth of the hopping channel is less than 250 kHz
	☐	N ≥ 25, 20 dB bandwidth of the hopping channel is 250 kHz or greater
	☐	Hybrid mode, No minimum number of hopping channels associated with hybrid system.
N: Number of Hopping Frequencies		

3.4.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2 Allow trace to stabilize.

3.4.3 Test Setup



3.4.4 Test Results

Ambient Condition	23~24°C / 65~68%	**Tested By**	Aska Huang

Refer to Appendix D.

3.5 20dB and Occupied Bandwidth

3.5.1 Test Procedures

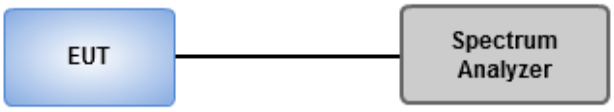
20dB Bandwidth

1. Set RBW=3kHz, VBW=10kHz, Sweep time=Auto, Detector=Peak Trace max hold.
2 Allow trace to stabilize.
3 Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set RBW=3kHz, VBW=10kHz,Sweep time = Auto, Detector=Peak, Trace max hold
2 Allow trace to stabilize
3. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

3.5.2 Test Setup



3.5.3 Test Results

Ambient Condition	23~24°C / 65~68%	**Tested By**	Aska Huang

Refer to Appendix E.

3.6 Channel Separation

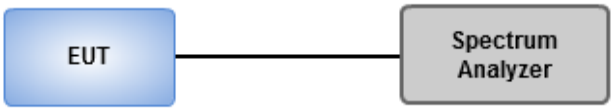
3.6.1 Limit of Channel Separation

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

3.6.2 Test Procedures

1. Set RBW=10kHz, VBW=30kHz, Sweep time=Auto, Detector=Peak Trace max hold.
2 Allow trace to stabilize.
3 Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

3.6.3 Test Setup



3.6.4 Test Results

Ambient Condition	23~24°C / 65~68%	**Tested By**	Aska Huang

Refer to Appendix F.

3.7 Number of Dwell Time

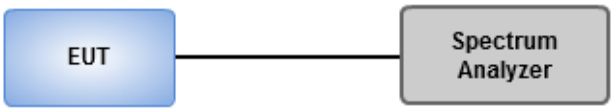
3.7.1 Limit of Dwell time

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems		
☒	902-928 MHz Band:	
	☒	≤ 0.4 second within a 20 second period, 20 dB bandwidth of the hopping channel is less than 250 kHz
	☐	≤ 0.4 second within a 10 second period, 20 dB bandwidth of the hopping channel is 250 kHz or greater
	☐	Hybrid mode ,an average time of occupancy on any frequency not to exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4

3.7.2 Test Procedures

1. Set RBW=200kHz, VBW=1000kHz, Sweep time=3.2s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 8 hopping channels.
2. Set RBW=200kHz, VBW=1000kHz, Sweep time=6.4s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 16 hopping channels.
3. Set RBW=200kHz, VBW=1000kHz, Sweep time=25.6s / 500ms, Detector=Peak, Span=0Hz, Trace max hold for 64 hopping channels.
4. Measure and record the burst on time.

3.7.3 Test Setup



3.7.4 Test Results

Ambient Condition	23~24°C / 65~68%	Tested By	Aska Huang

Refer to Appendix G.

3.8 AC Power Line Conducted Emissions

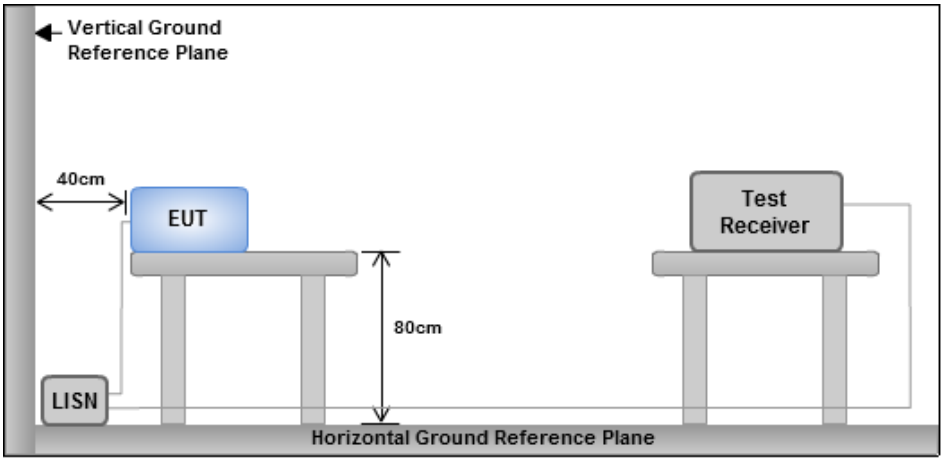
3.8.1 Limit of AC Power Line Conducted Emissions

Conducted Emissions Limit		
Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.8.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.8.3 Test Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.8.4 Test Result of Conducted Emissions

Refer to Appendix H.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

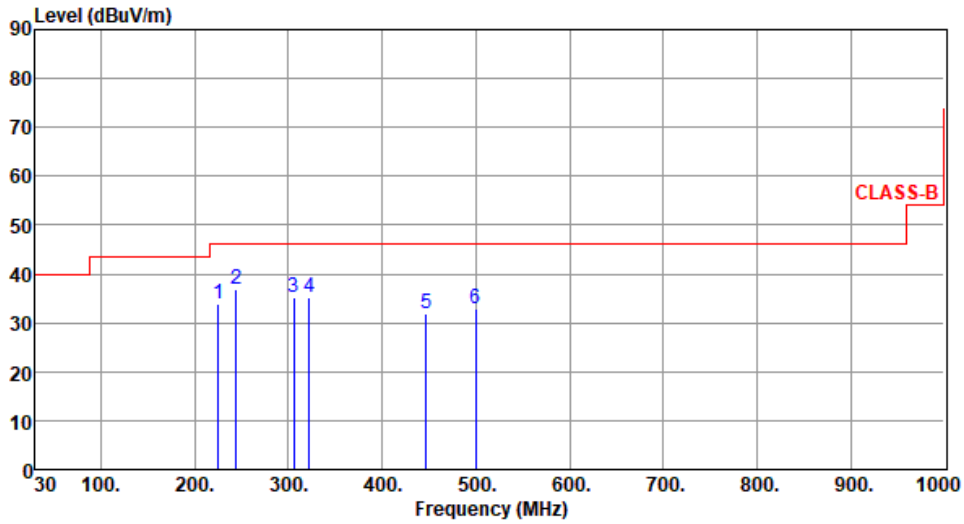
==END==

Model: CL4490-1000-232

TX Unwanted Emissions (Below 1GHz)

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

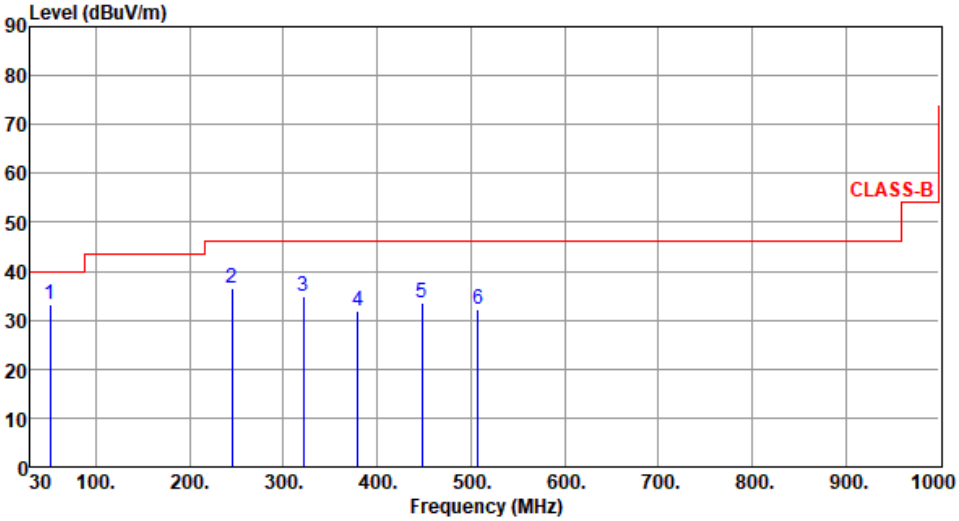


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	224.86	33.86	46.00	-12.14	45.89	-12.03	Peak	---	---
2	244.39	36.85	46.00	-9.15	47.04	-10.19	Peak	---	---
3	305.64	35.19	46.00	-10.81	43.17	-7.98	Peak	---	---
4	322.59	35.28	46.00	-10.72	42.74	-7.46	Peak	---	---
5	446.98	31.97	46.00	-14.03	36.29	-4.32	Peak	---	---
6	500.25	32.97	46.00	-13.03	36.26	-3.29	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

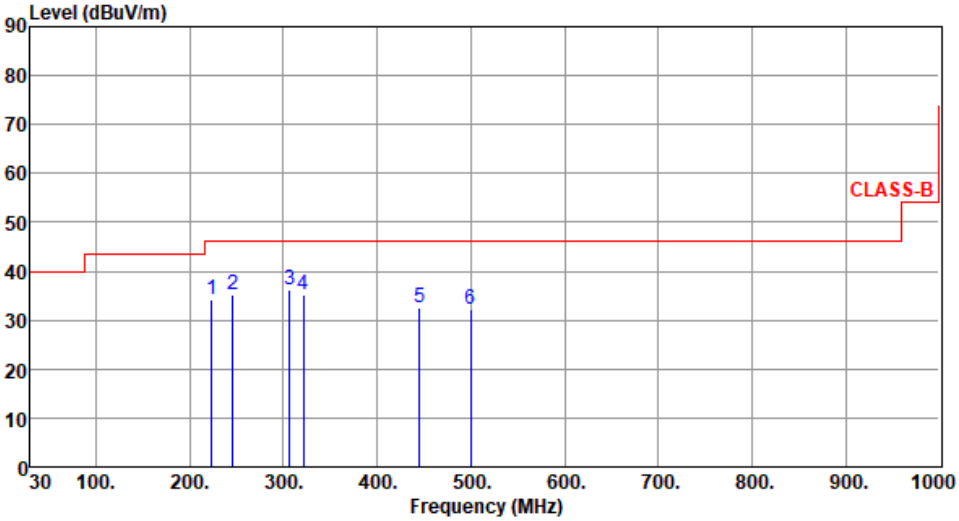


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.42	33.18	40.00	-6.82	41.96	-8.78	Peak	---	---
2	244.97	36.58	46.00	-9.42	46.75	-10.17	Peak	---	---
3	321.26	34.94	46.00	-11.06	42.40	-7.46	Peak	---	---
4	379.68	31.94	46.00	-14.06	38.17	-6.23	Peak	---	---
5	448.26	33.54	46.00	-12.46	37.82	-4.28	Peak	---	---
6	507.68	32.19	46.00	-13.81	35.30	-3.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

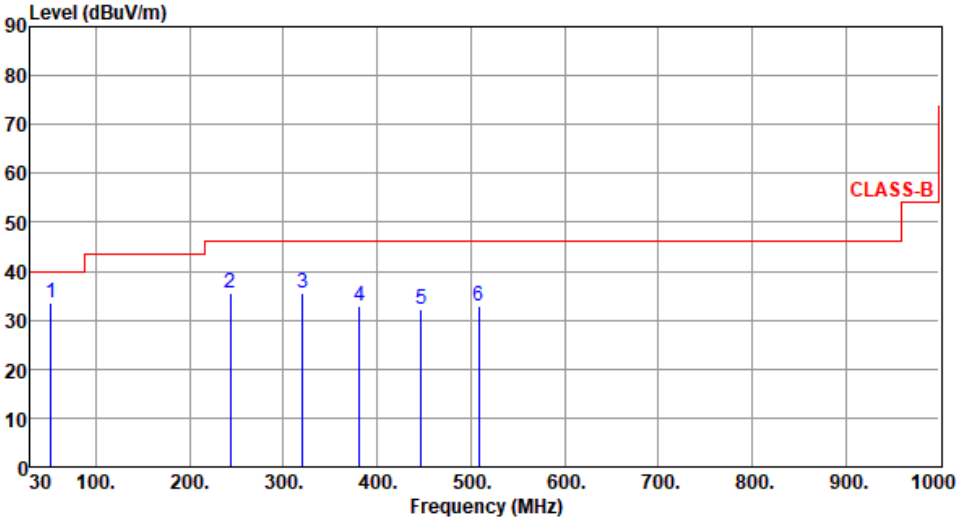


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	223.20	34.28	46.00	-11.72	46.27	-11.99	Peak	---	---
2	245.60	35.37	46.00	-10.63	45.53	-10.16	Peak	---	---
3	306.40	36.25	46.00	-9.75	44.20	-7.95	Peak	---	---
4	321.60	35.37	46.00	-10.63	42.83	-7.46	Peak	---	---
5	445.60	32.63	46.00	-13.37	36.98	-4.35	Peak	---	---
6	500.00	32.31	46.00	-13.69	35.60	-3.29	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

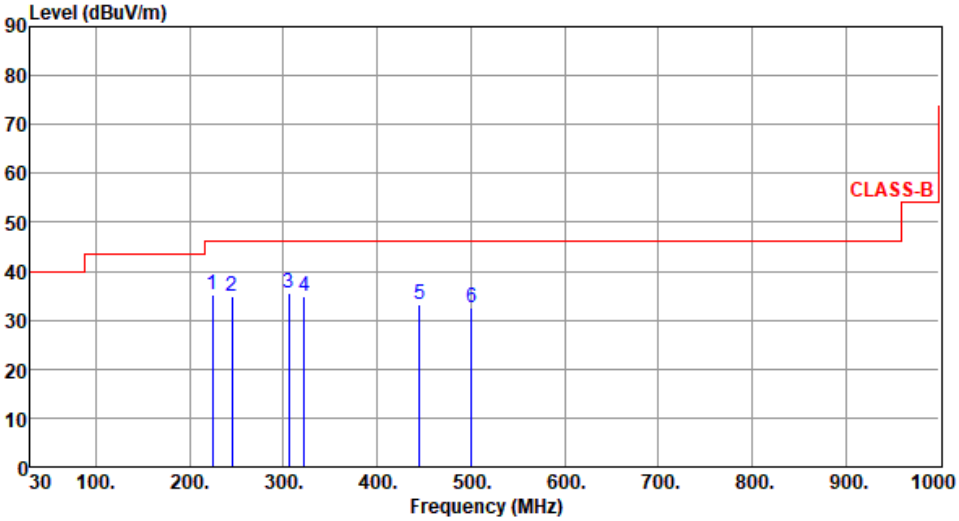


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.58	33.55	40.00	-6.45	42.33	-8.78	Peak	---	---
2	243.20	35.38	46.00	-10.62	45.63	-10.25	Peak	---	---
3	320.80	35.41	46.00	-10.59	42.87	-7.46	Peak	---	---
4	380.80	32.98	46.00	-13.02	39.18	-6.20	Peak	---	---
5	447.20	32.36	46.00	-13.64	36.68	-4.32	Peak	---	---
6	508.80	32.74	46.00	-13.26	35.82	-3.08	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

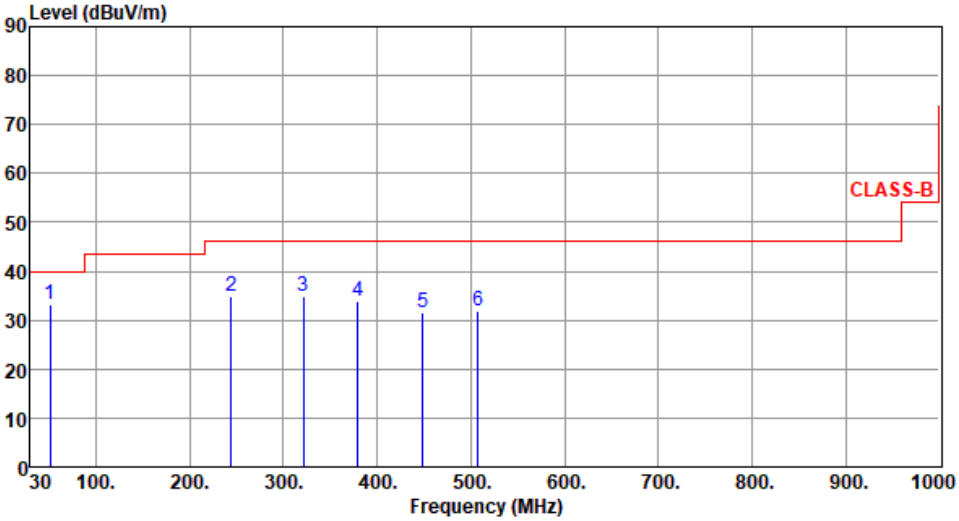


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	224.59	35.16	46.00	-10.84	47.18	-12.02	Peak	---	---
2	244.95	34.81	46.00	-11.19	44.98	-10.17	Peak	---	---
3	305.98	35.67	46.00	-10.33	43.64	-7.97	Peak	---	---
4	322.48	34.91	46.00	-11.09	42.37	-7.46	Peak	---	---
5	444.98	33.15	46.00	-12.85	37.51	-4.36	Peak	---	---
6	500.38	32.70	46.00	-13.30	35.98	-3.28	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	Test Freq. (MHz)	927.492
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



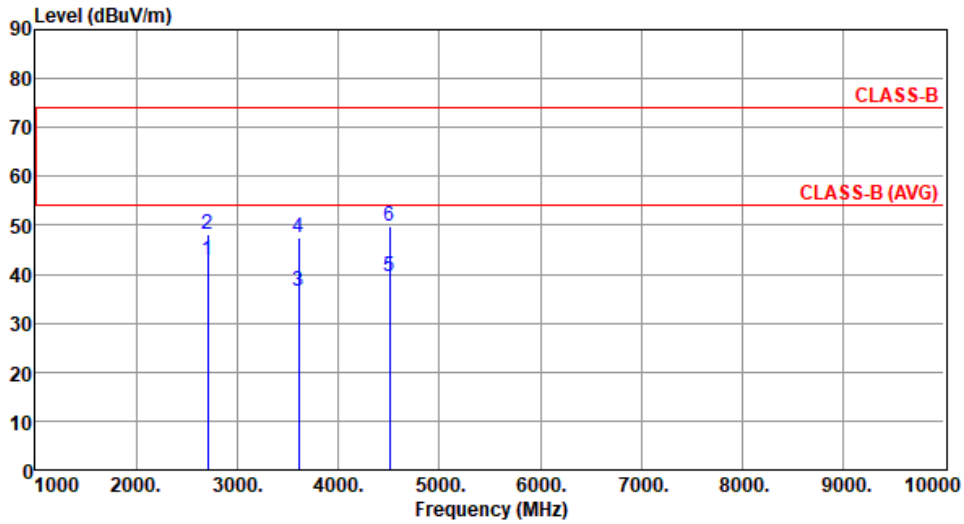
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.42	33.16	40.00	-6.84	41.94	-8.78	Peak	---	---
2	244.59	34.91	46.00	-11.09	45.10	-10.19	Peak	---	---
3	321.65	34.91	46.00	-11.09	42.37	-7.46	Peak	---	---
4	379.65	33.79	46.00	-12.21	40.02	-6.23	Peak	---	---
5	448.59	31.64	46.00	-14.36	35.92	-4.28	Peak	---	---
6	507.65	31.89	46.00	-14.11	35.00	-3.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

TX Unwanted Emissions (Above 1GHz)

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):65

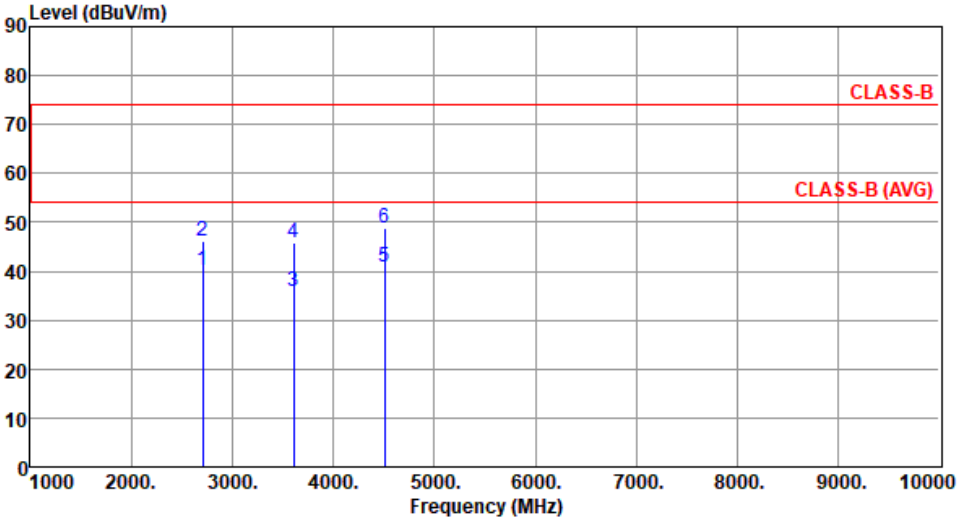


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2706.64	42.87	54.00	-11.13	44.56	-1.69	Average	135	270
2	2706.64	48.26	74.00	-25.74	49.95	-1.69	Peak	135	270
3	3608.85	36.55	54.00	-17.45	35.96	0.59	Average	100	311
4	3608.85	47.44	74.00	-26.56	46.85	0.59	Peak	100	311
5	4511.07	39.56	54.00	-14.44	36.54	3.02	Average	100	277
6	4511.07	49.87	74.00	-24.13	46.85	3.02	Peak	100	277

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):65

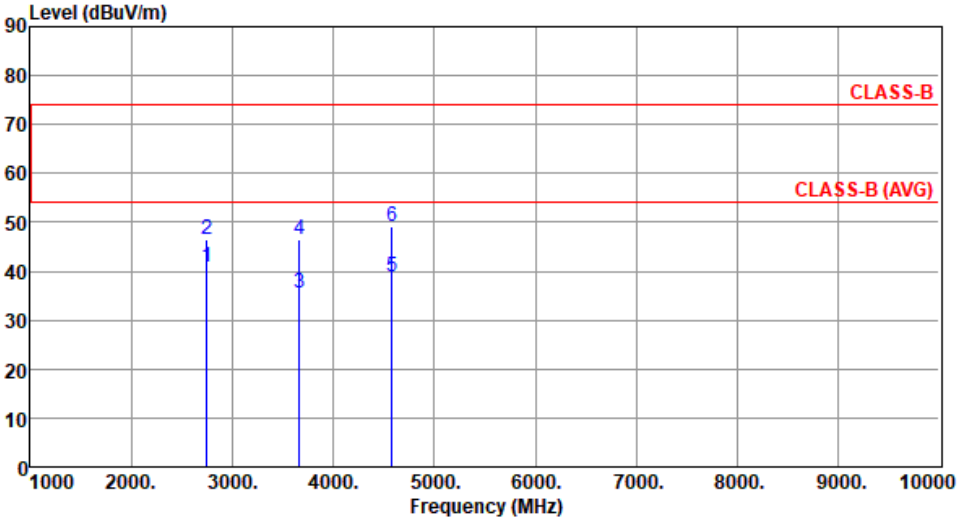


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2706.64	40.04	54.00	-13.96	41.73	-1.69	Average	100	351
2	2706.64	46.19	74.00	-27.81	47.88	-1.69	Peak	100	351
3	3608.85	35.77	54.00	-18.23	35.18	0.59	Average	100	25
4	3608.85	45.98	74.00	-28.02	45.39	0.59	Peak	100	25
5	4511.07	40.95	54.00	-13.05	37.93	3.02	Average	105	23
6	4511.07	48.91	74.00	-25.09	45.89	3.02	Peak	105	23

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):65

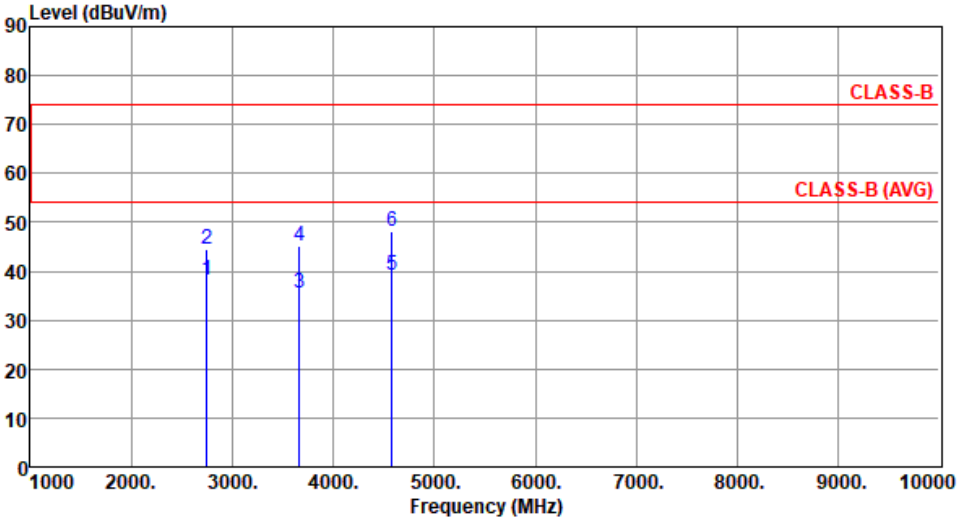


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2746.13	40.80	54.00	-13.20	42.36	-1.56	Average	132	266
2	2746.13	46.49	74.00	-27.51	48.05	-1.56	Peak	132	266
3	3661.51	35.57	54.00	-18.43	34.87	0.70	Average	100	309
4	3661.51	46.35	74.00	-27.65	45.65	0.70	Peak	100	309
5	4576.89	38.93	54.00	-15.07	35.66	3.27	Average	100	271
6	4576.89	49.23	74.00	-24.77	45.96	3.27	Peak	100	271

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):65

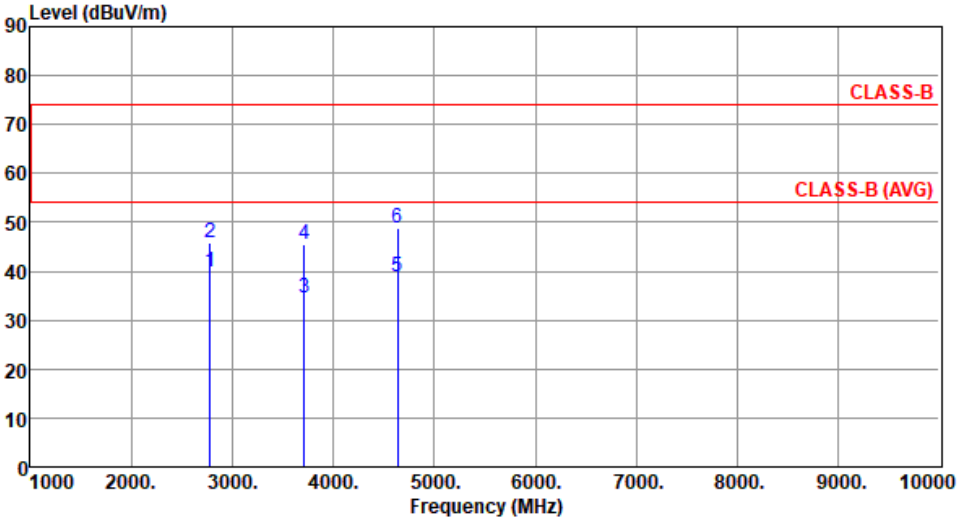


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2746.13	38.08	54.00	-15.92	39.64	-1.56	Average	100	347
2	2746.13	44.53	74.00	-29.47	46.09	-1.56	Peak	100	347
3	3661.51	35.65	54.00	-18.35	34.95	0.70	Average	100	21
4	3661.51	45.18	74.00	-28.82	44.48	0.70	Peak	100	21
5	4576.89	39.12	54.00	-14.88	35.85	3.27	Average	102	25
6	4576.89	48.04	74.00	-25.96	44.77	3.27	Peak	102	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):23 Humidity(%):65

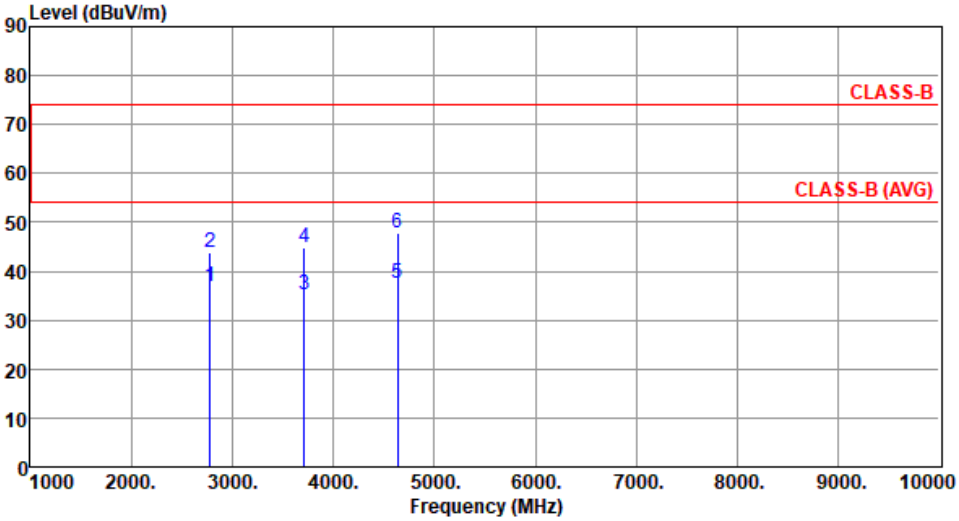


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.48	39.92	54.00	-14.08	41.37	-1.45	Average	130	262
2	2782.48	45.67	74.00	-28.33	47.12	-1.45	Peak	130	262
3	3709.97	34.64	54.00	-19.36	33.94	0.70	Average	100	302
4	3709.97	45.63	74.00	-28.37	44.93	0.70	Peak	100	302
5	4637.46	38.81	54.00	-15.19	35.21	3.60	Average	100	269
6	4637.46	48.82	74.00	-25.18	45.22	3.60	Peak	100	269

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.48	36.71	54.00	-17.29	38.16	-1.45	Average	100	344
2	2782.48	43.81	74.00	-30.19	45.26	-1.45	Peak	100	344
3	3709.97	35.16	54.00	-18.84	34.46	0.70	Average	100	26
4	3709.97	44.89	74.00	-29.11	44.19	0.70	Peak	100	26
5	4637.46	37.62	54.00	-16.38	34.02	3.60	Average	108	27
6	4637.46	47.68	74.00	-26.32	44.08	3.60	Peak	108	27

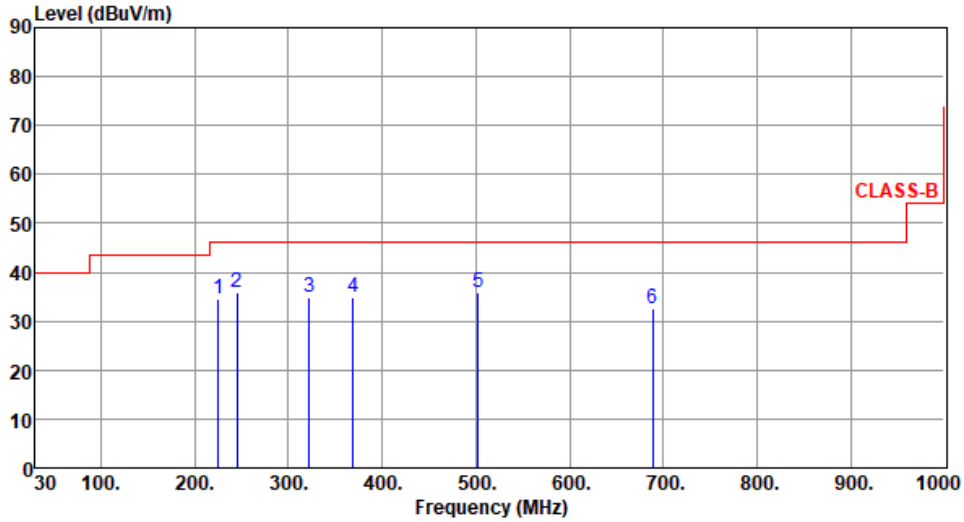
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Model: CL4490-1000-485

TX Unwanted Emissions (Below 1GHz)

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

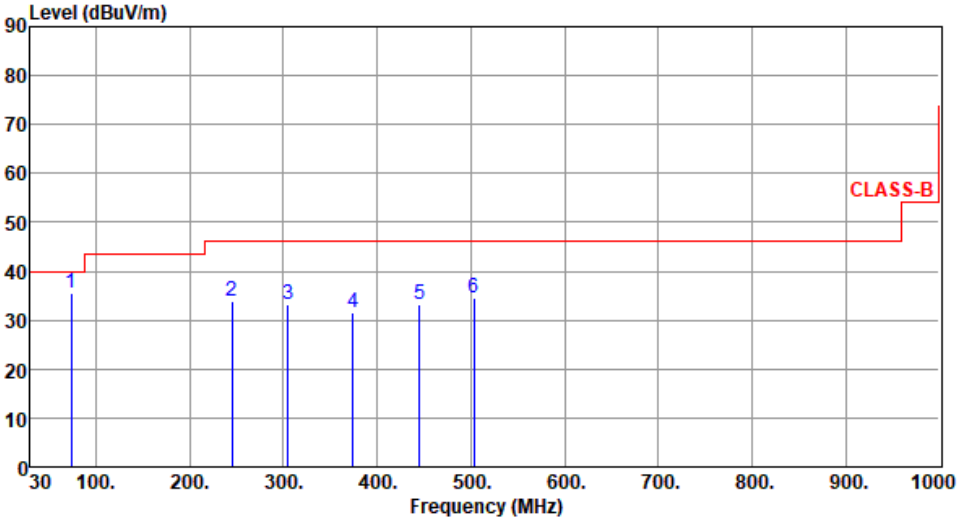


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	224.89	34.56	46.00	-11.44	46.59	-12.03	Peak	---	---
2	244.98	35.81	46.00	-10.19	45.98	-10.17	Peak	---	---
3	322.65	34.97	46.00	-11.03	42.43	-7.46	Peak	---	---
4	369.45	34.91	46.00	-11.09	41.37	-6.46	Peak	---	---
5	502.59	35.95	46.00	-10.05	39.18	-3.23	Peak	---	---
6	688.59	32.56	46.00	-13.44	32.51	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

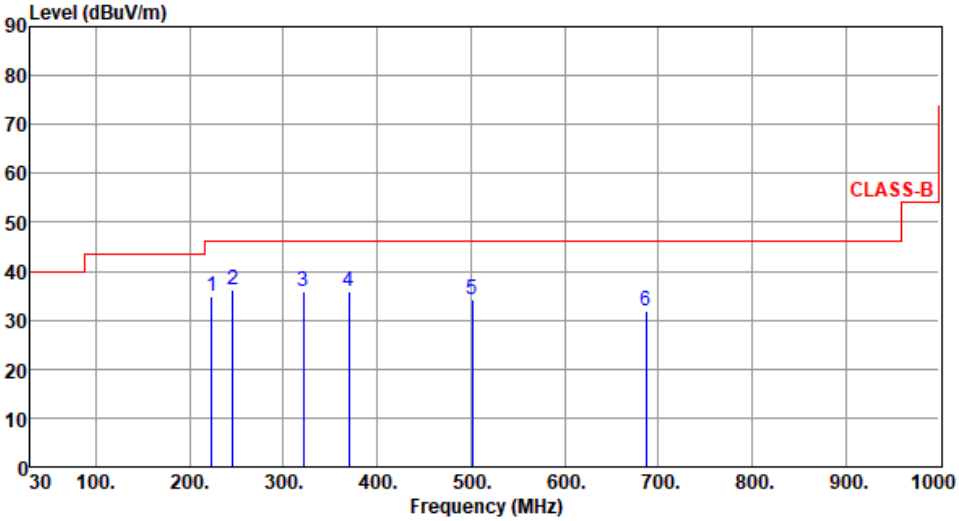


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	73.46	35.46	40.00	-4.54	47.22	-11.76	Peak	---	---
2	244.94	33.91	46.00	-12.09	44.08	-10.17	Peak	---	---
3	304.98	33.28	46.00	-12.72	41.29	-8.01	Peak	---	---
4	374.59	31.58	46.00	-14.42	37.92	-6.34	Peak	---	---
5	445.12	33.28	46.00	-12.72	37.64	-4.36	Peak	---	---
6	503.59	34.58	46.00	-11.42	37.79	-3.21	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

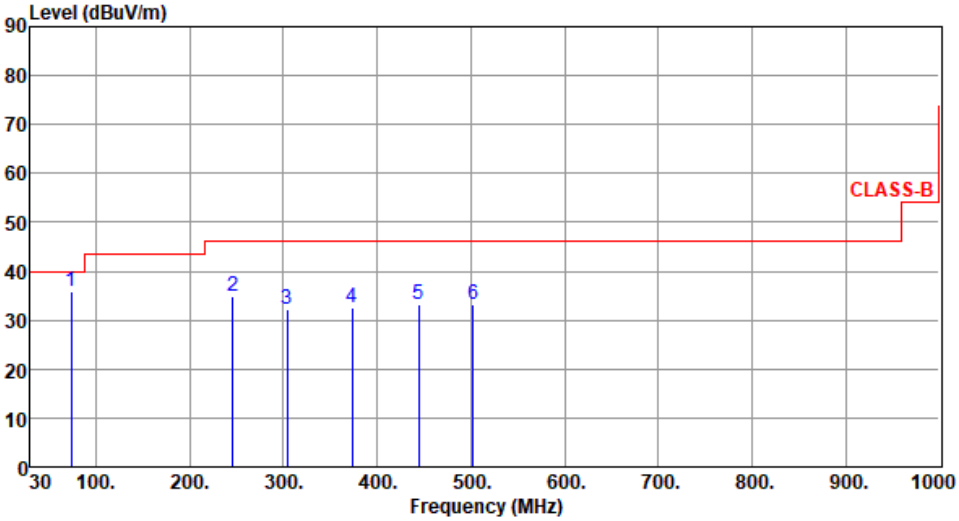


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	223.20	34.91	46.00	-11.09	46.90	-11.99	Peak	---	---
2	245.60	36.31	46.00	-9.69	46.47	-10.16	Peak	---	---
3	321.60	35.93	46.00	-10.07	43.39	-7.46	Peak	---	---
4	369.60	35.72	46.00	-10.28	42.18	-6.46	Peak	---	---
5	501.60	34.28	46.00	-11.72	37.54	-3.26	Peak	---	---
6	687.20	31.98	46.00	-14.02	31.93	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

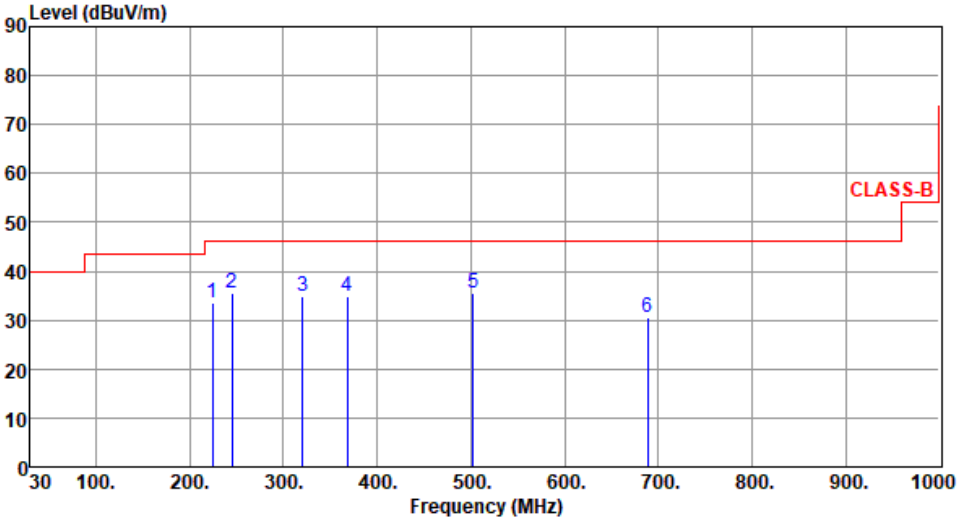


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	73.89	35.77	40.00	-4.23	47.74	-11.97	Peak	---	---
2	245.60	34.90	46.00	-11.10	45.06	-10.16	Peak	---	---
3	304.00	32.07	46.00	-13.93	40.10	-8.03	Peak	---	---
4	373.60	32.42	46.00	-13.58	38.78	-6.36	Peak	---	---
5	444.80	33.07	46.00	-12.93	37.44	-4.37	Peak	---	---
6	502.40	33.30	46.00	-12.70	36.54	-3.24	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

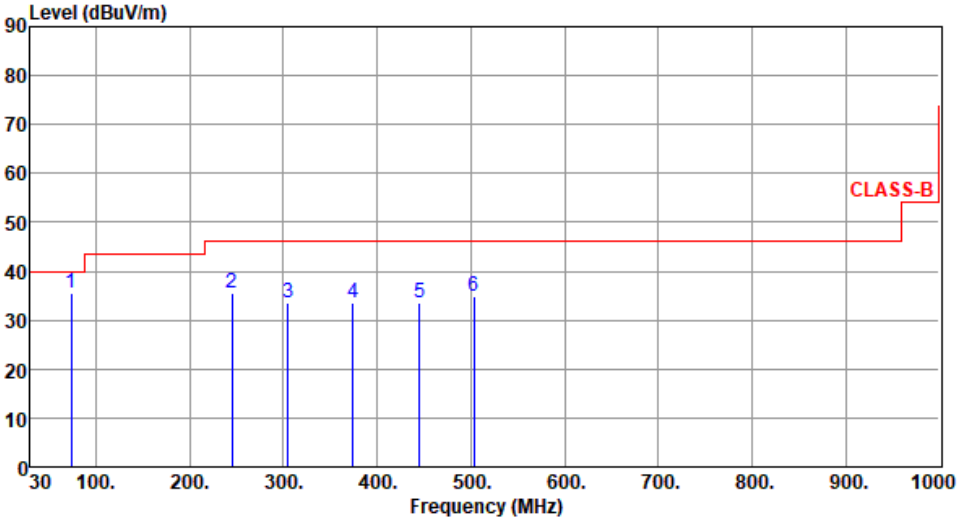


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	224.59	33.64	46.00	-12.36	45.66	-12.02	Peak	---	---
2	244.91	35.48	46.00	-10.52	45.65	-10.17	Peak	---	---
3	320.59	34.79	46.00	-11.21	42.25	-7.46	Peak	---	---
4	368.49	34.97	46.00	-11.03	41.45	-6.48	Peak	---	---
5	502.59	35.59	46.00	-10.41	38.82	-3.23	Peak	---	---
6	688.49	30.67	46.00	-15.33	30.62	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	73.64	35.49	40.00	-4.51	47.34	-11.85	Peak	---	---
2	244.91	35.68	46.00	-10.32	45.85	-10.17	Peak	---	---
3	305.29	33.64	46.00	-12.36	41.64	-8.00	Peak	---	---
4	374.58	33.56	46.00	-12.44	39.90	-6.34	Peak	---	---
5	445.38	33.67	46.00	-12.33	38.02	-4.35	Peak	---	---
6	503.59	34.81	46.00	-11.19	38.02	-3.21	Peak	---	---

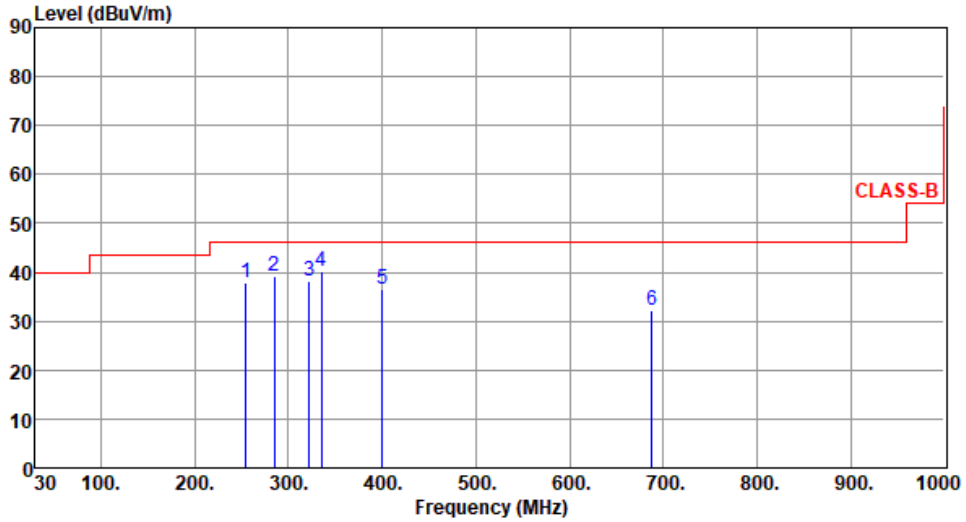
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Model: CL4490-1000-PRO

TX Unwanted Emissions (Below 1GHz)

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

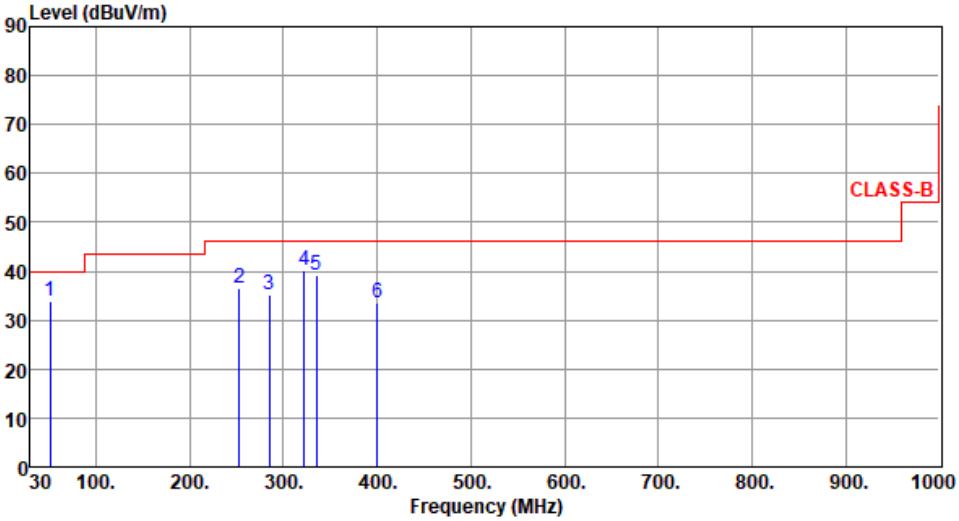


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	254.89	37.89	46.00	-8.11	47.74	-9.85	Peak	---	---
2	285.00	39.21	46.00	-6.79	47.78	-8.57	Peak	---	---
3	322.00	38.32	46.00	-7.68	45.78	-7.46	Peak	---	---
4	335.40	40.02	46.00	-5.98	47.34	-7.32	Peak	---	---
5	399.90	36.59	46.00	-9.41	42.37	-5.78	Peak	---	---
6	687.59	32.19	46.00	-13.81	32.14	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

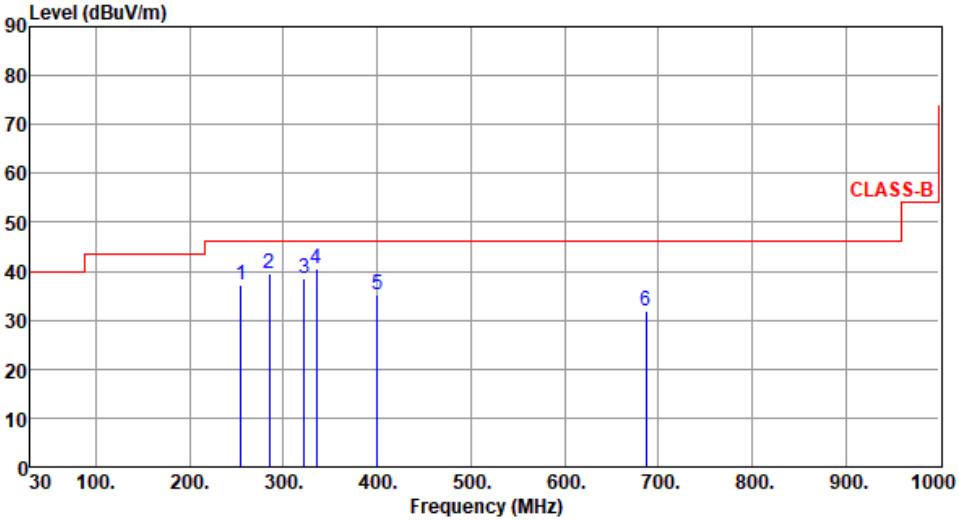


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.32	34.03	40.00	-5.97	42.81	-8.78	Peak	---	---
2	252.89	36.46	46.00	-9.54	46.40	-9.94	Peak	---	---
3	285.00	35.15	46.00	-10.85	43.72	-8.57	Peak	---	---
4	322.00	40.11	46.00	-5.89	47.57	-7.46	Peak	---	---
5	335.40	39.15	46.00	-6.85	46.47	-7.32	Peak	---	---
6	399.90	33.59	46.00	-12.41	39.37	-5.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

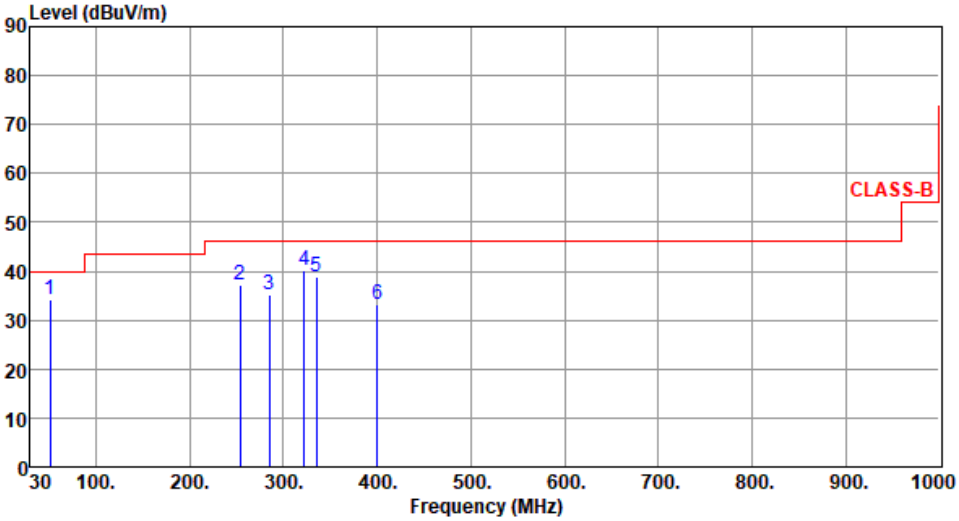


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	254.40	37.26	46.00	-8.74	47.14	-9.88	Peak	---	---
2	285.00	39.50	46.00	-6.50	48.07	-8.57	Peak	---	---
3	322.00	38.58	46.00	-7.42	46.04	-7.46	Peak	---	---
4	335.40	40.39	46.00	-5.61	47.71	-7.32	Peak	---	---
5	399.90	35.26	46.00	-10.74	41.04	-5.78	Peak	---	---
6	687.20	31.74	46.00	-14.26	31.69	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	Test Freq. (MHz)	915.378
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

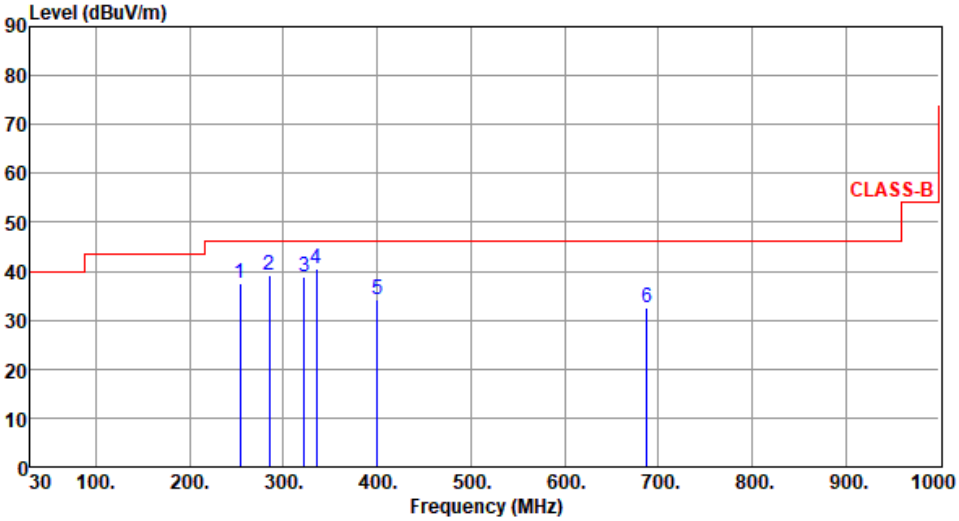


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.55	34.26	40.00	-5.74	43.04	-8.78	Peak	---	---
2	253.60	37.04	46.00	-8.96	46.96	-9.92	Peak	---	---
3	285.00	35.33	46.00	-10.67	43.90	-8.57	Peak	---	---
4	322.00	40.30	46.00	-5.70	47.76	-7.46	Peak	---	---
5	335.40	38.78	46.00	-7.22	46.10	-7.32	Peak	---	---
6	399.90	33.31	46.00	-12.69	39.09	-5.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68

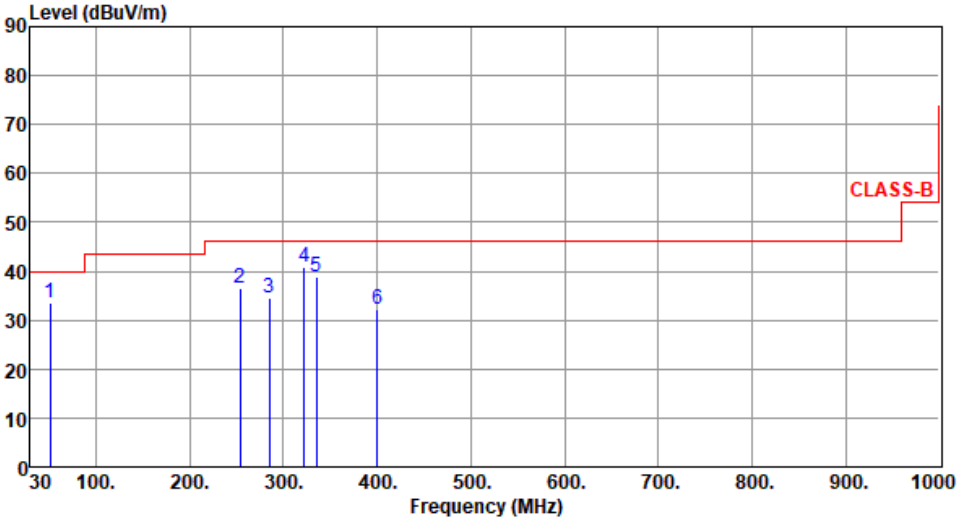


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	253.98	37.59	46.00	-8.41	47.49	-9.90	Peak	---	---
2	285.00	39.22	46.00	-6.78	47.79	-8.57	Peak	---	---
3	322.00	38.98	46.00	-7.02	46.44	-7.46	Peak	---	---
4	335.40	40.58	46.00	-5.42	47.90	-7.32	Peak	---	---
5	399.90	34.16	46.00	-11.84	39.94	-5.78	Peak	---	---
6	687.59	32.58	46.00	-13.42	32.53	0.05	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	FSK	Test Freq. (MHz)	927.492
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):68



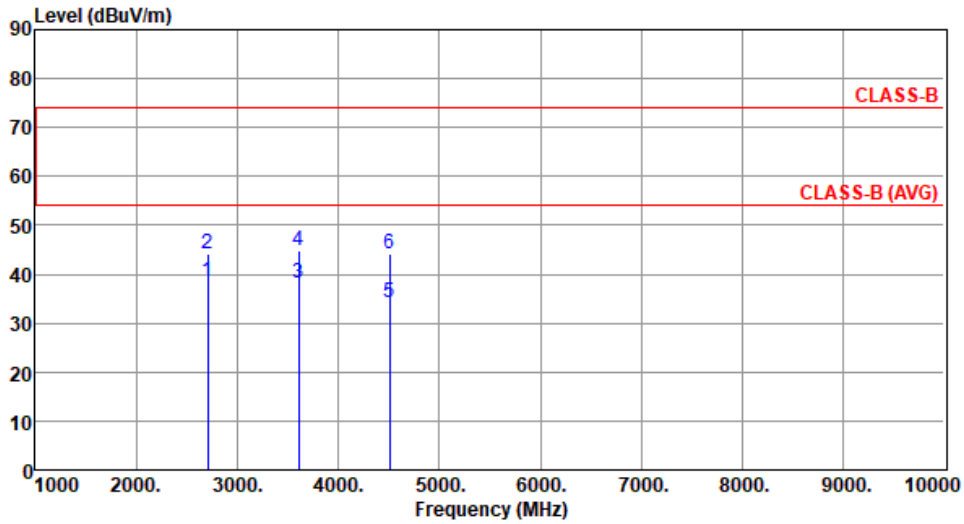
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.42	33.64	40.00	-6.36	42.42	-8.78	Peak	---	---
2	253.97	36.48	46.00	-9.52	46.38	-9.90	Peak	---	---
3	285.00	34.67	46.00	-11.33	43.24	-8.57	Peak	---	---
4	322.00	40.85	46.00	-5.15	48.31	-7.46	Peak	---	---
5	335.40	38.91	46.00	-7.09	46.23	-7.32	Peak	---	---
6	399.90	32.19	46.00	-13.81	37.97	-5.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

TX Unwanted Emissions (Above 1GHz)

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66

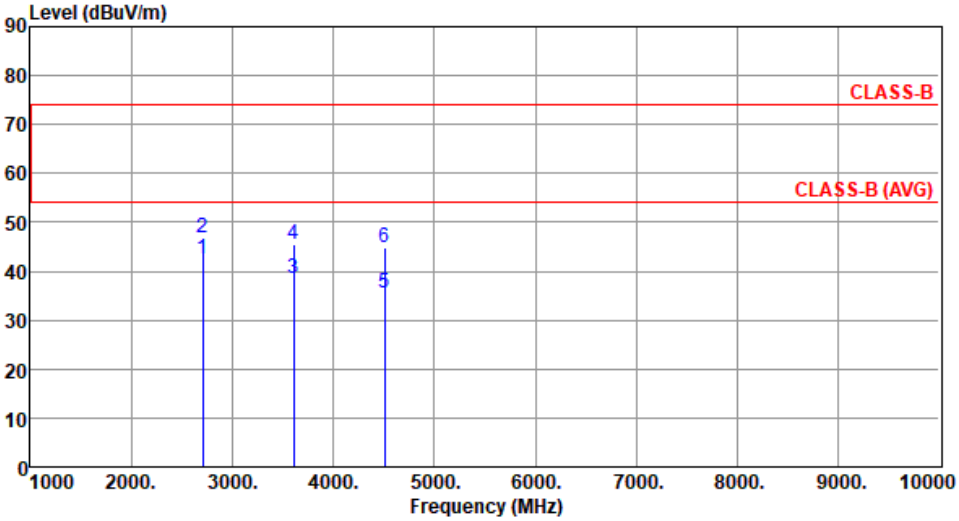


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2706.64	38.52	54.00	-15.48	40.21	-1.69	Average	100	169
2	2706.64	44.02	74.00	-29.98	45.71	-1.69	Peak	100	160
3	3608.85	38.27	54.00	-15.73	37.68	0.59	Average	100	87
4	3608.85	44.71	74.00	-29.29	44.12	0.59	Peak	100	87
5	4511.07	34.24	54.00	-19.76	31.22	3.02	Average	100	35
6	4511.07	44.24	74.00	-29.76	41.22	3.02	Peak	100	35

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	902.213
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66

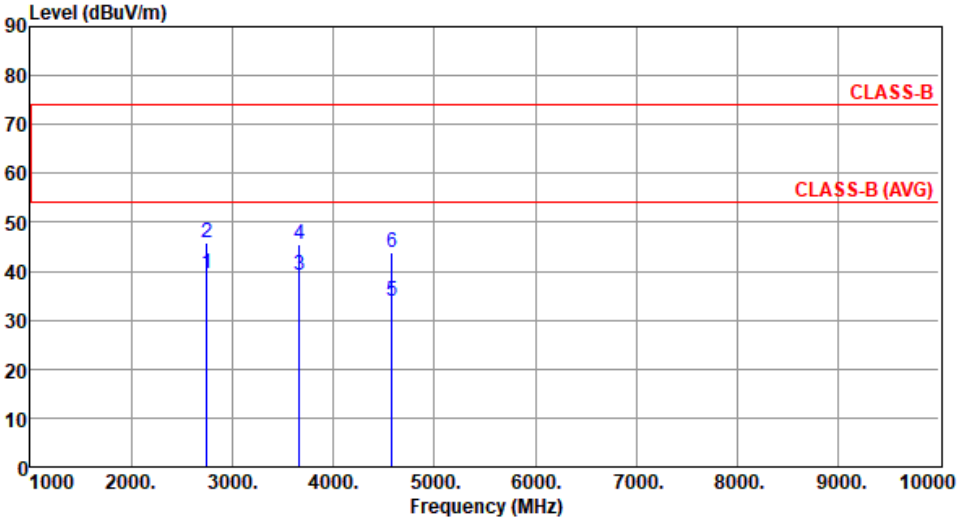


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2706.64	42.53	54.00	-11.47	44.22	-1.69	Average	368	159
2	2706.64	46.67	74.00	-27.33	48.36	-1.69	Peak	368	159
3	3608.85	38.37	54.00	-15.63	37.78	0.59	Average	105	3
4	3608.85	45.38	74.00	-28.62	44.79	0.59	Peak	105	3
5	4511.07	35.51	54.00	-18.49	32.49	3.02	Average	100	162
6	4511.07	44.81	74.00	-29.19	41.79	3.02	Peak	100	162

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66

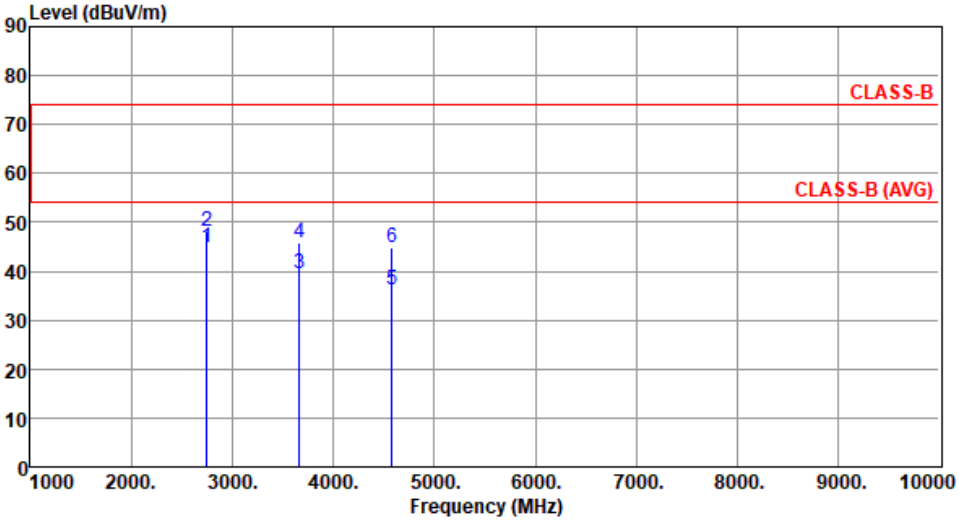


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2746.13	39.65	54.00	-14.35	41.21	-1.56	Average	100	165
2	2746.13	45.70	74.00	-28.30	47.26	-1.56	Peak	100	165
3	3661.51	39.26	54.00	-14.74	38.56	0.70	Average	100	88
4	3661.51	45.49	74.00	-28.51	44.79	0.70	Peak	100	88
5	4576.89	33.86	54.00	-20.14	30.59	3.27	Average	100	33
6	4576.89	43.85	74.00	-30.15	40.58	3.27	Peak	100	33

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	915.378
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66

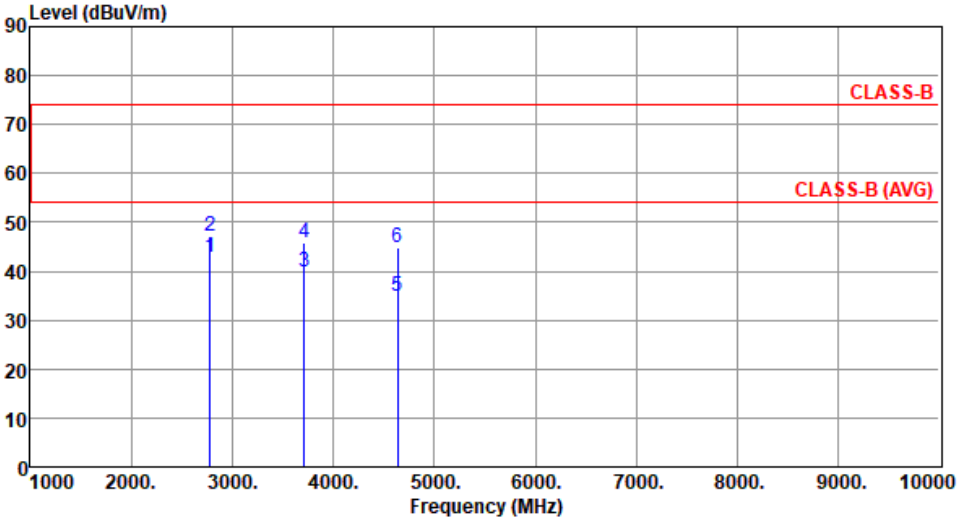


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2746.13	44.99	54.00	-9.01	46.55	-1.56	Average	363	173
2	2746.13	48.11	74.00	-25.89	49.67	-1.56	Peak	363	173
3	3661.51	39.49	54.00	-14.51	38.79	0.70	Average	106	5
4	3661.51	45.82	74.00	-28.18	45.12	0.70	Peak	106	5
5	4576.89	36.15	54.00	-17.85	32.88	3.27	Average	100	234
6	4576.89	44.68	74.00	-29.32	41.41	3.27	Peak	100	234

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66

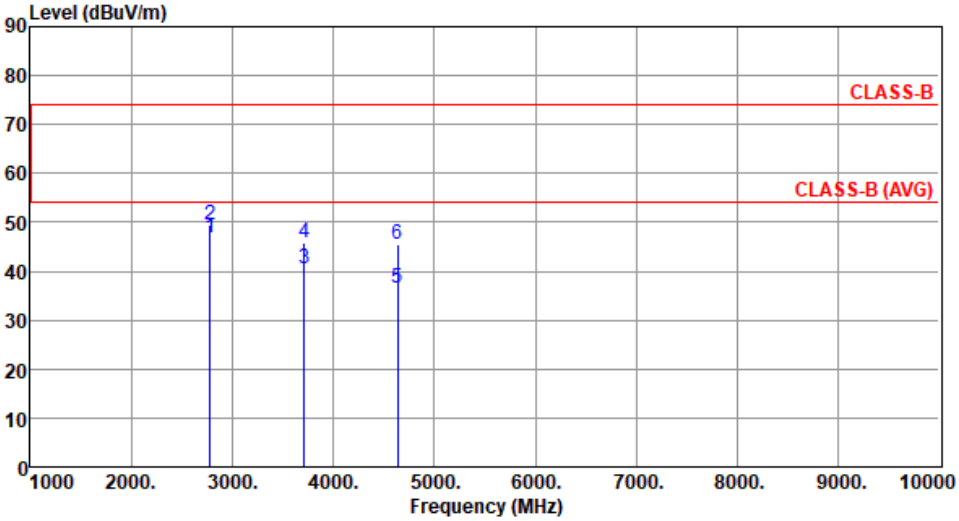


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.48	42.68	54.00	-11.32	44.13	-1.45	Average	100	170
2	2782.48	47.11	74.00	-26.89	48.56	-1.45	Peak	100	170
3	3709.97	39.93	54.00	-14.07	39.23	0.70	Average	100	92
4	3709.97	45.75	74.00	-28.25	45.05	0.70	Peak	100	92
5	4637.46	34.96	54.00	-19.04	31.36	3.60	Average	100	31
6	4637.46	44.72	74.00	-29.28	41.12	3.60	Peak	100	31

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	FSK	**Test Freq. (MHz)**	927.492
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):66



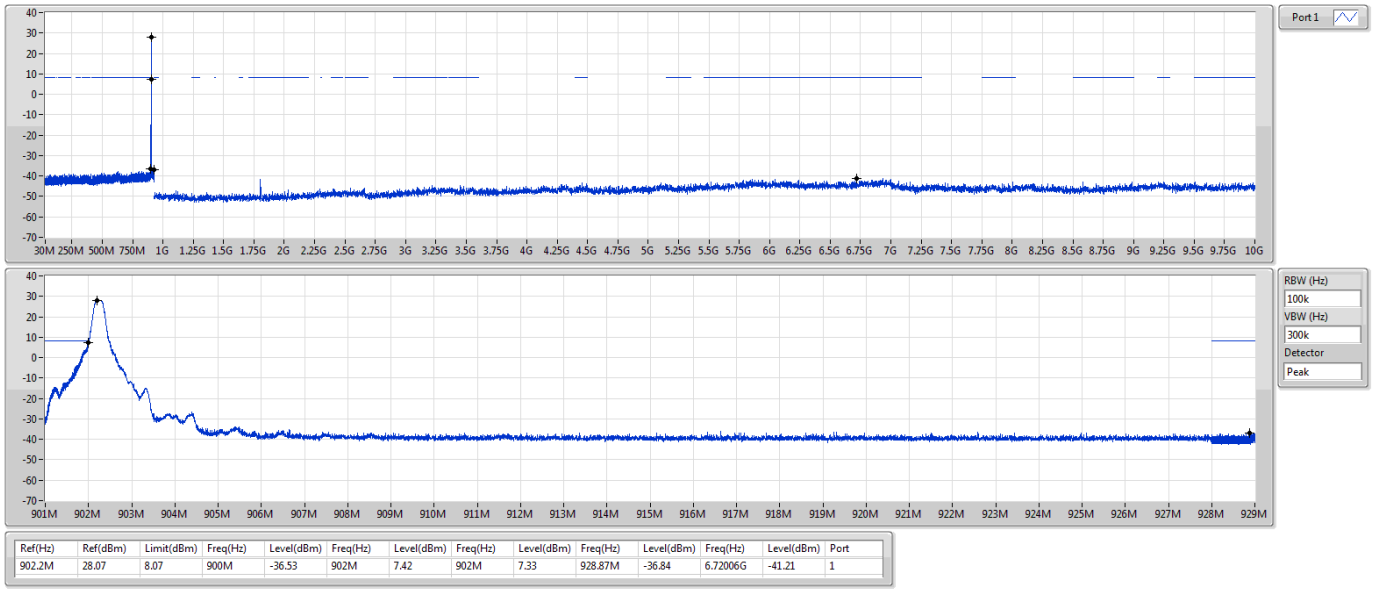
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2782.48	46.96	54.00	-7.04	48.41	-1.45	Average	372	155
2	2782.48	49.61	74.00	-24.39	51.06	-1.45	Peak	372	155
3	3709.97	40.37	54.00	-13.63	39.67	0.70	Average	105	1
4	3709.97	45.82	74.00	-28.18	45.12	0.70	Peak	105	1
5	4637.46	36.64	54.00	-17.36	33.04	3.60	Average	100	158
6	4637.46	45.49	74.00	-28.51	41.89	3.60	Peak	100	158

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Model: CL4490-1000-232

FSK-145k **CSENdB-FS**

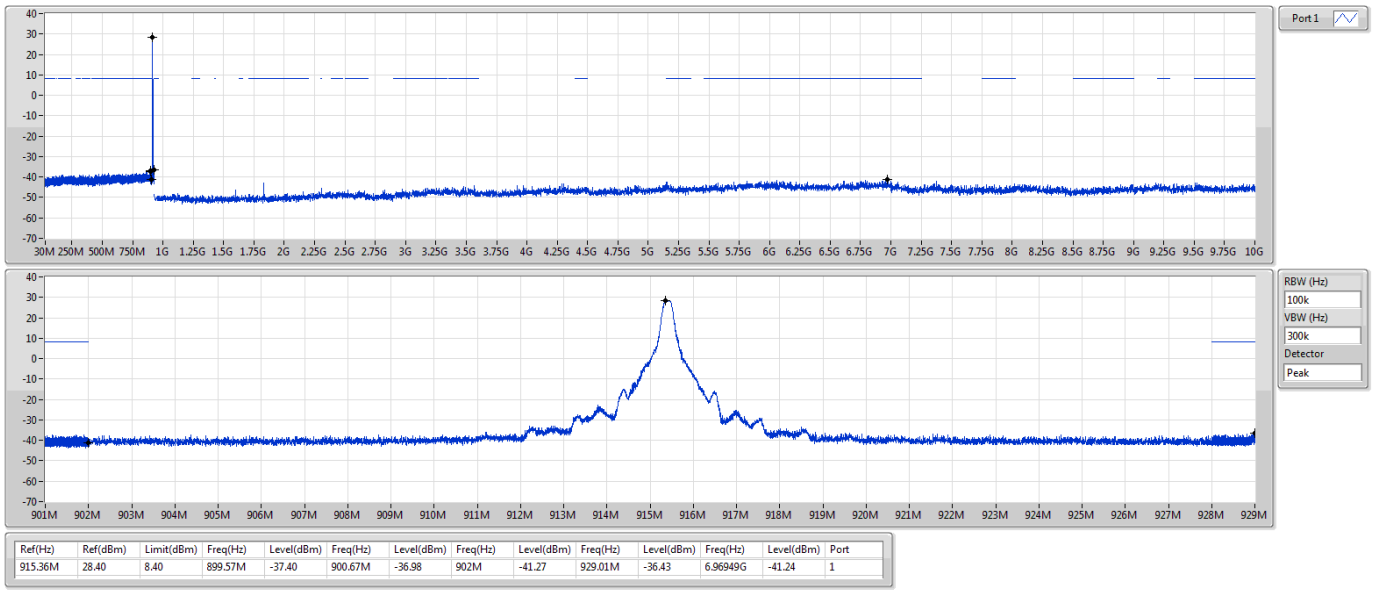
902.213MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
902.2M	28.07	8.07	900M	-36.53	902M	7.42	902M	7.33	928.87M	-36.84	6.72006G	-41.21	1

FSK-145k **CSENdB-FS**

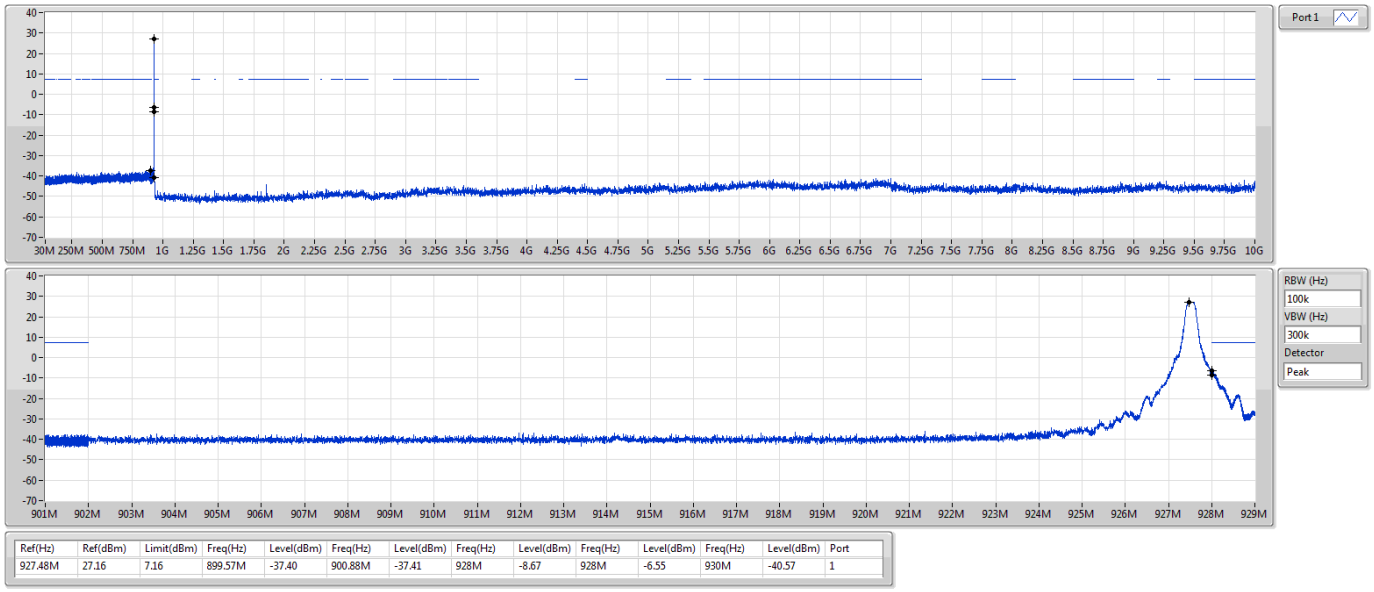
915.378MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
915.36M	28.40	8.40	899.57M	-37.40	900.67M	-36.98	902M	-41.27	929.01M	-36.43	6.96949G	-41.24	1

FSK-145k **CSENdB-FS**

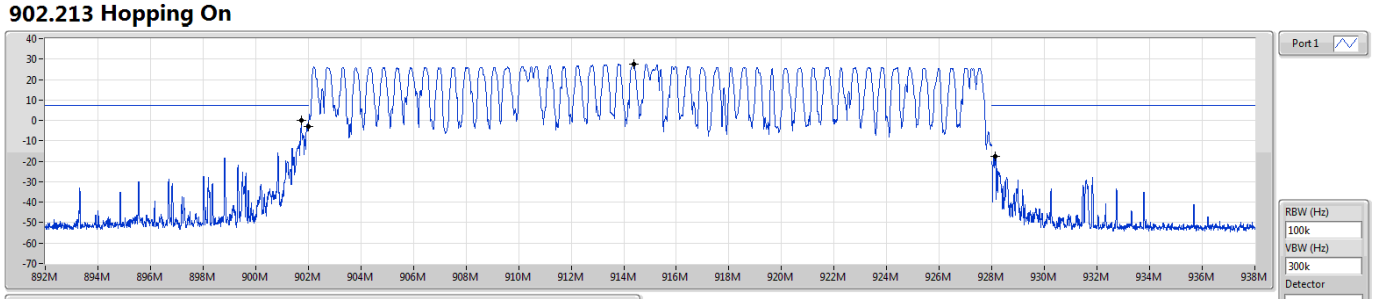
927.492MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.48M	27.16	7.16	899.57M	-37.40	900.88M	-37.41	928M	-8.67	928M	-6.55	930M	-40.57	1

FSK-145k **CSENdB-FS**

902.213 Hopping On

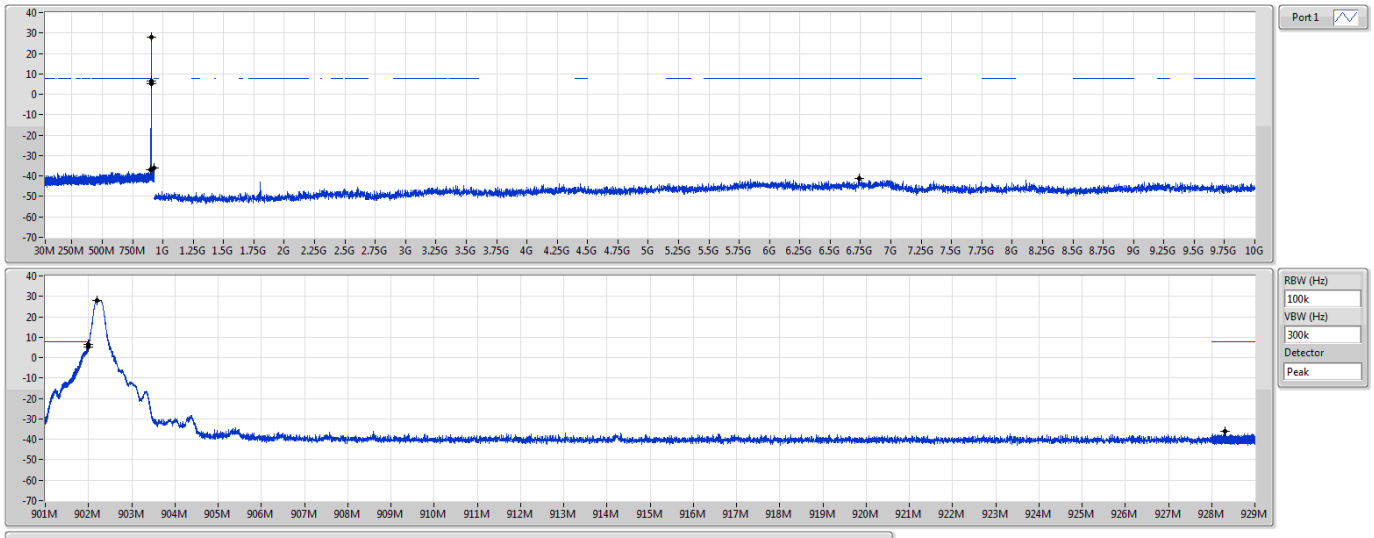


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
914.39M	27.49	7.49	901.74M	0.06	902M	-3.17	928.11M	-17.62	1

Model: CL4490-1000-PRO

FSK-145k **CSENdB-FS**

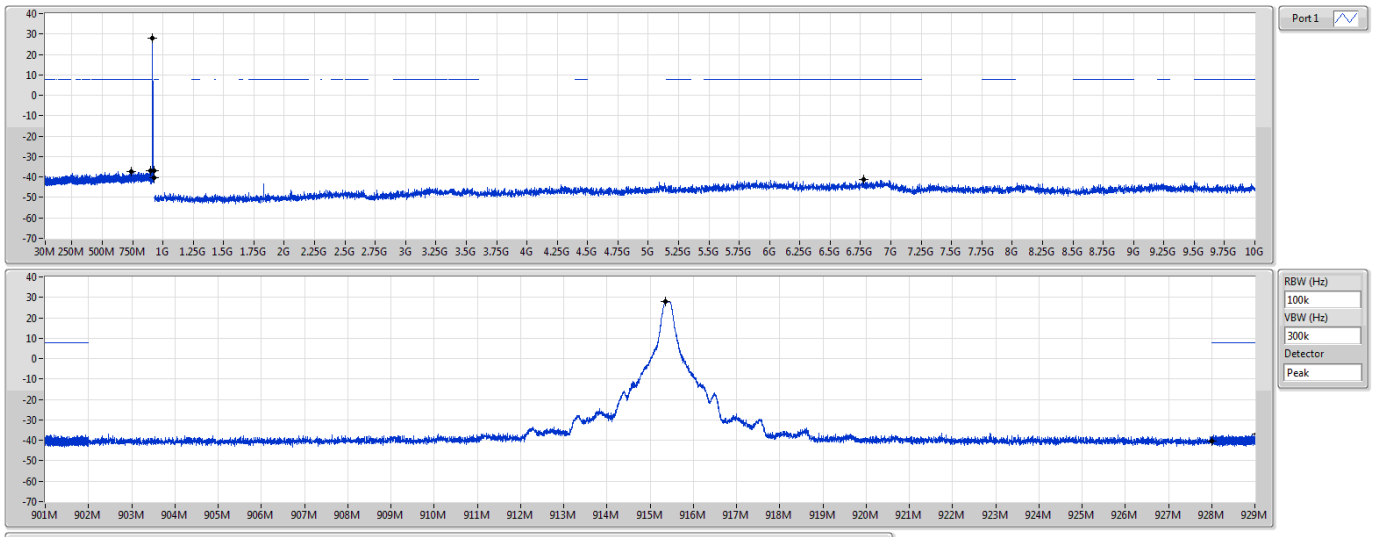
902.213MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
902.2M	27.85	7.85	899.89M	-37.04	901.99M	6.47	902M	5.28	928.3M	-36.12	6.73593G	-41.29	1

FSK-145k **CSENdB-FS**

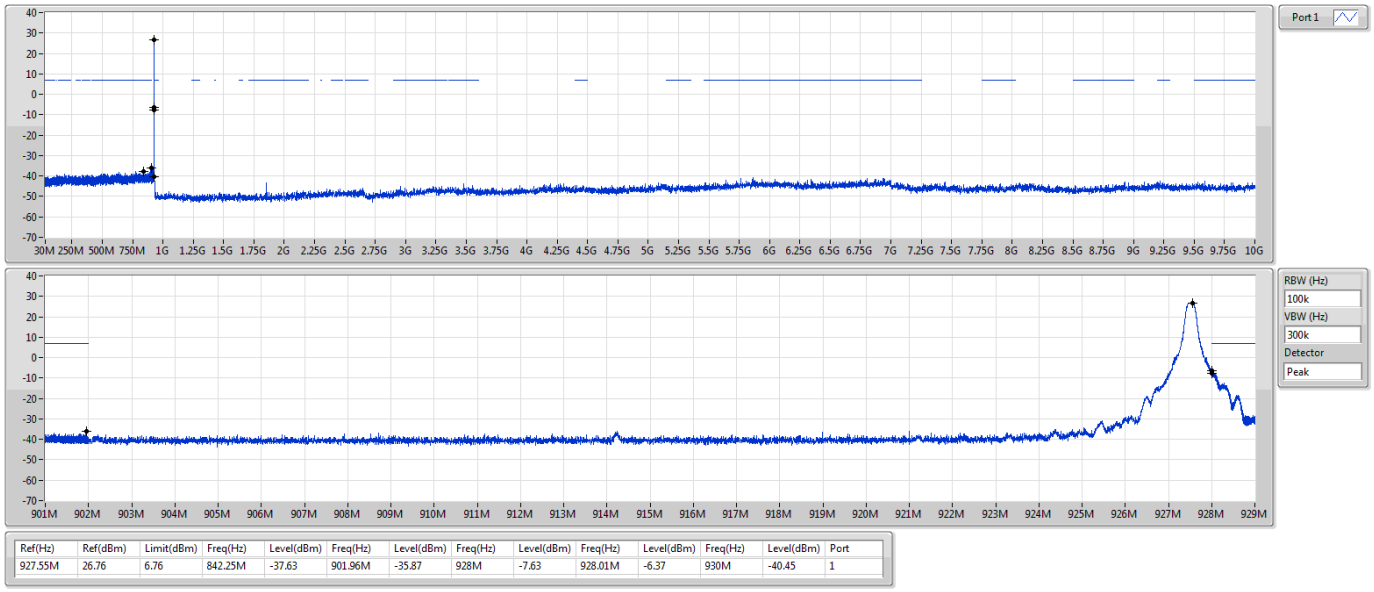
915.378MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
915.36M	27.84	7.84	736.98M	-37.23	900.08M	-37.07	928M	-40.56	929.04M	-36.93	6.77448G	-41.27	1

FSK-145k **CSENdB-FS**

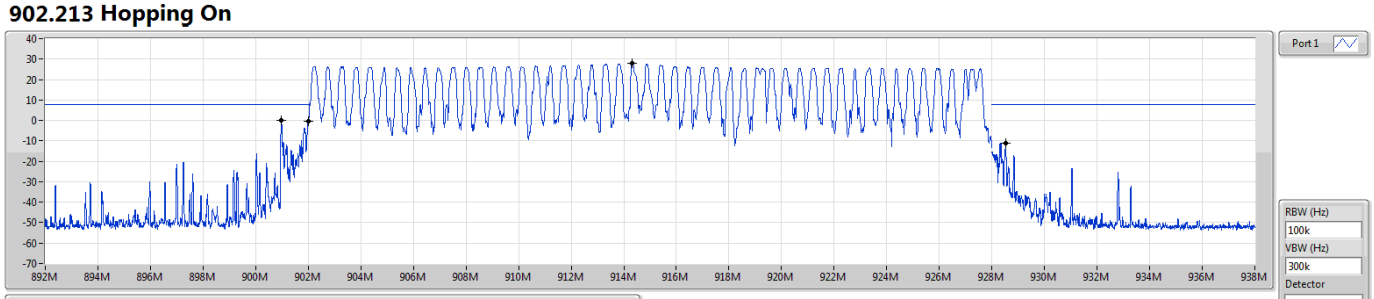
927.492MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
927.55M	26.76	6.76	842.25M	-37.63	901.96M	-35.87	928M	-7.63	928.01M	-6.37	930M	-40.45	1

FSK-145k **CSENdB-FS**

902.213 Hopping On



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
914.32M	27.78	7.78	900.98M	-0.17	902M	-0.34	928.53M	-10.99	1

Model: CL4490-1000-232

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
FSK-145k	28.12	0.64863

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
FSK-145k	-	-	-	-
902.213MHz	Pass	2.00	27.70	30.00
915.378MHz	Pass	2.00	28.12	30.00
927.492MHz	Pass	2.00	26.86	30.00

Model: CL4490-1000-PRO

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
FSK-145k	27.61	0.57677

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
FSK-145k	-	-	-	-
902.213MHz	Pass	2.00	27.57	30.00
915.378MHz	Pass	2.00	27.61	30.00
927.492MHz	Pass	2.00	26.62	30.00

Model: CL4490-1000-232

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
FSK-145k	28.00	0.63096

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
FSK-145k	-	-	-	-
902.213MHz	Pass	2.00	27.62	-
915.378MHz	Pass	2.00	28.00	-
927.492MHz	Pass	2.00	26.78	-

Note: Average power is for reference only.

Model: CL4490-1000-PRO

Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
FSK-145k	27.51	0.56364

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
FSK-145k	-	-	-	-
902.213MHz	Pass	2.00	27.49	-
915.378MHz	Pass	2.00	27.51	-
927.492MHz	Pass	2.00	26.54	-

Note: Average power is for reference only.

Model: CL4490-1000-232

Summary

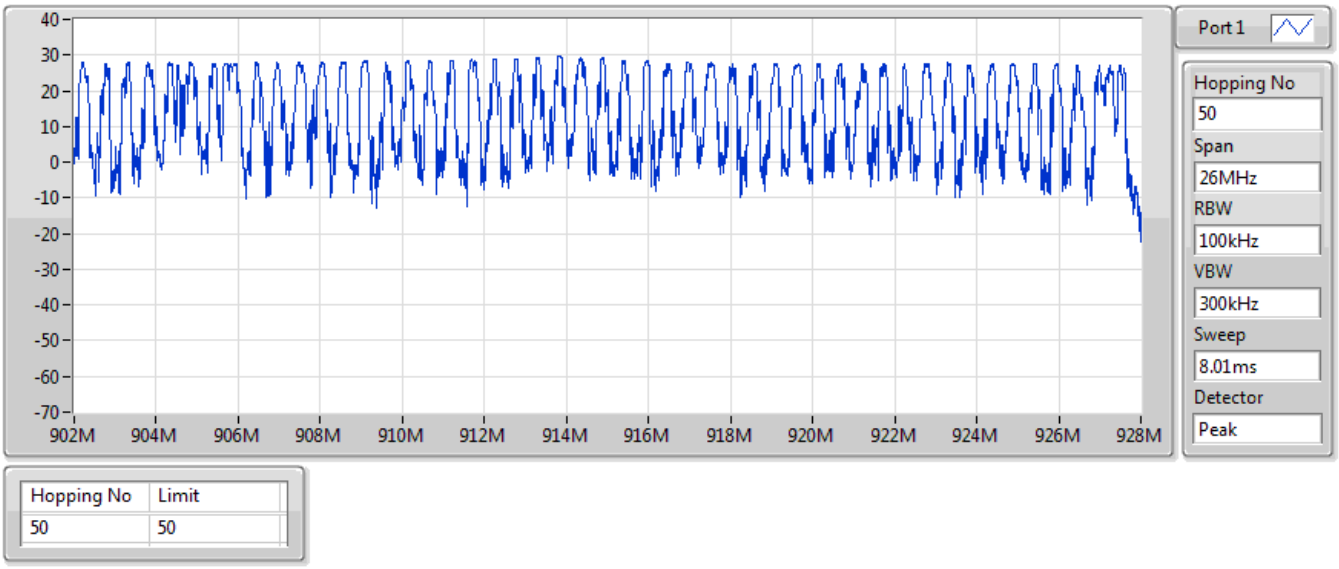
Mode	Max-Hop No
902-928MHz	-
FSK-145k	50

Result

Mode	Result	Hopping No	Limit
FSK-145k	-	-	-
902.213MHz	Pass	50	50

FSK-145k **Hopping-FS**

902.213MHz



Model: CL4490-1000-PRO

Summary

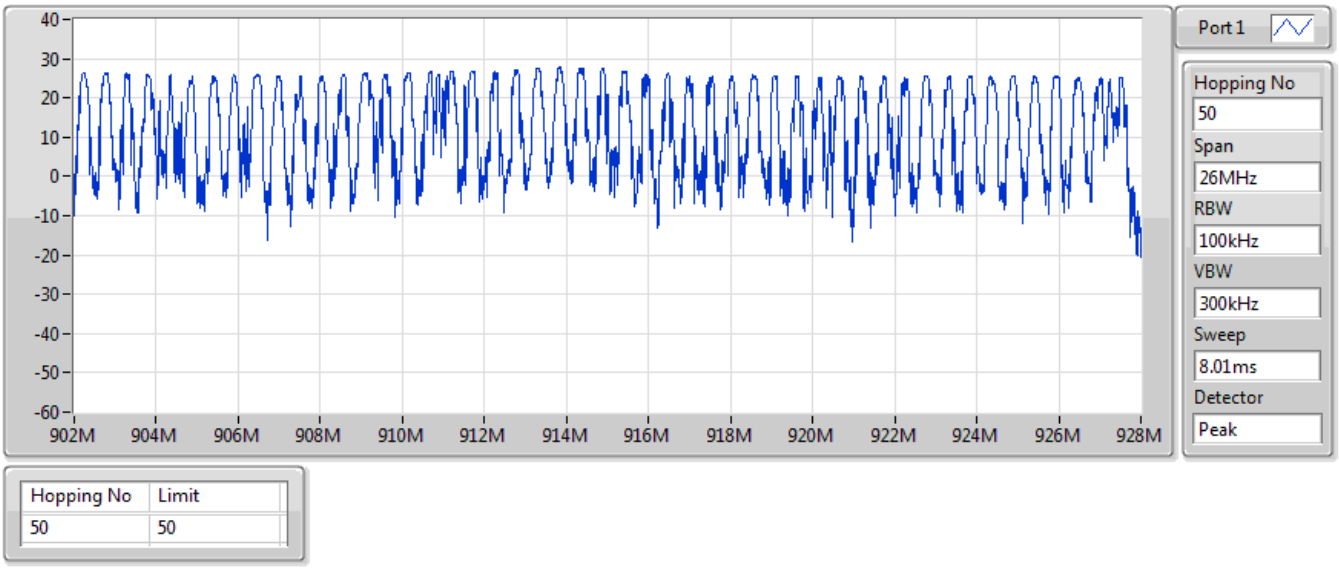
Mode	Max-Hop No
902-928MHz	-
FSK-145k	50

Result

Mode	Result	Hopping No	Limit
FSK-145k	-	-	-
902.213MHz	Pass	50	50

FSK-145k **Hopping-FS**

902.213MHz



Model: CL4490-1000-232

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
FSK-145k	170.29k	309.334k	309KF1D	148.551k	211.65k

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

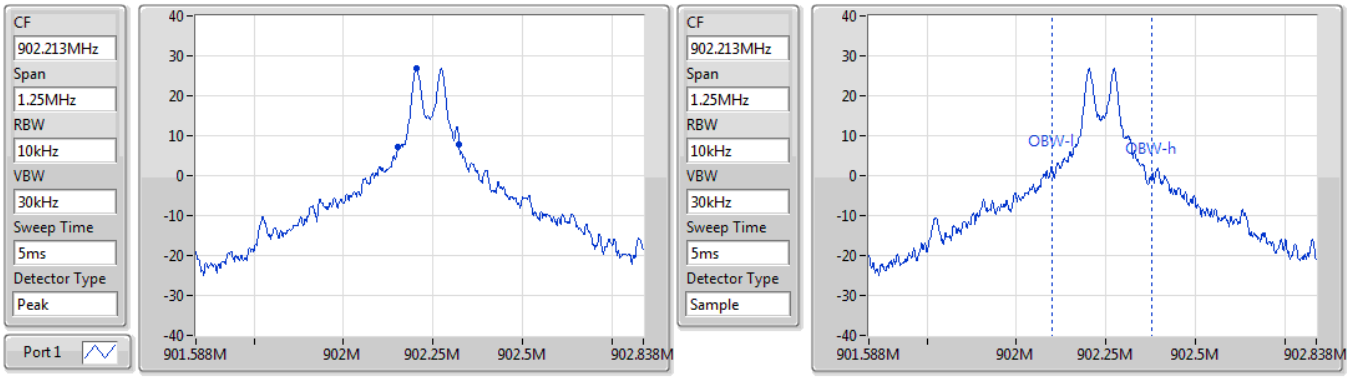
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
FSK-145k	-	-	-	-
902.213MHz	Pass	Inf	170.29k	280.391k
915.378MHz	Pass	Inf	148.551k	309.334k
927.492MHz	Pass	Inf	168.478k	211.65k

Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

FSK-145k **EBW-FS**

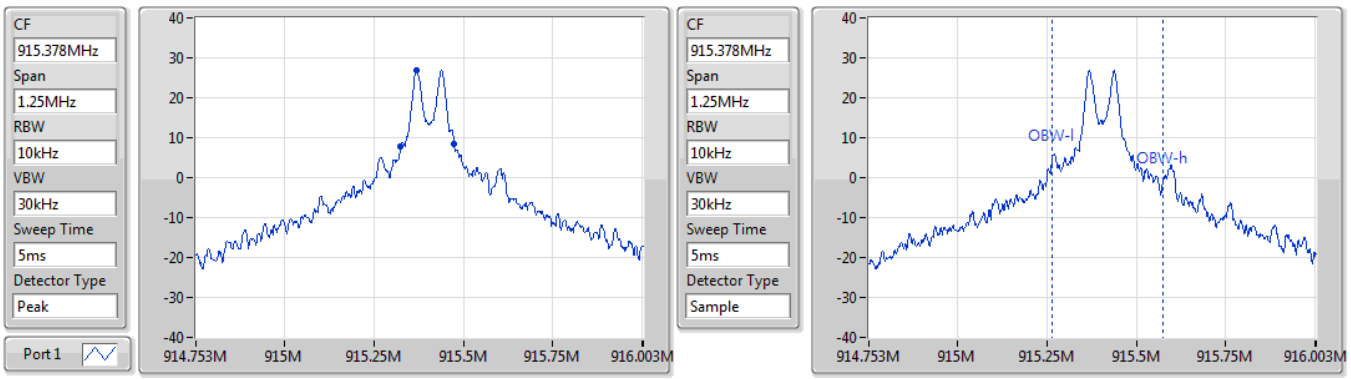
902.213MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
170.29k	902.153217M	902.323507M	280.391k	902.099035M	902.379425M	Inf	1

FSK-145k **EBW-FS**

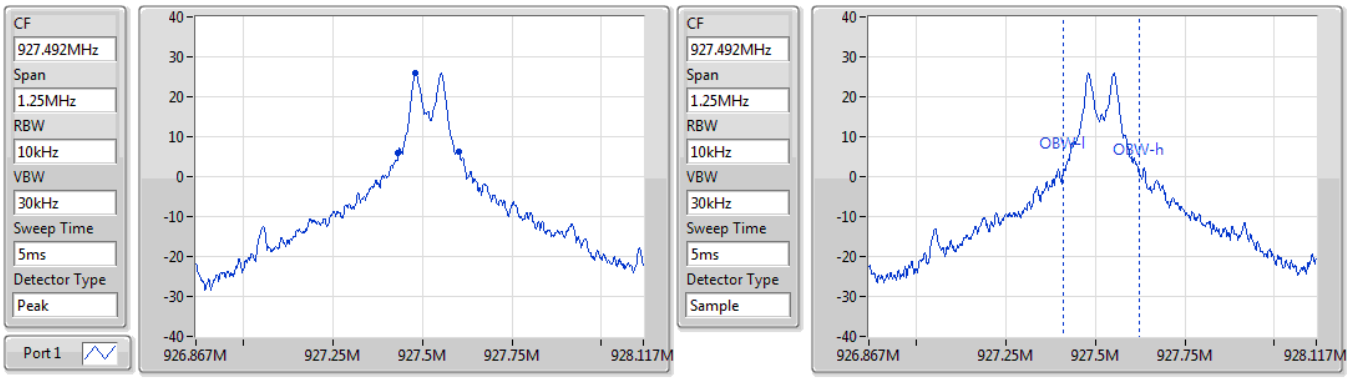
915.378MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
148.551k	915.325464M	915.474014M	309.334k	915.264035M	915.573369M	Inf	1

FSK-145k **EBW-FS**

927.492MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
168.478k	927.432217M	927.600696M	211.65k	927.410596M	927.622246M	Inf	1

Model: CL4490-1000-PRO

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
902-928MHz	-	-	-	-	-
FSK-145k	219.203k	350.941k	351KF1D	164.855k	289.436k

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

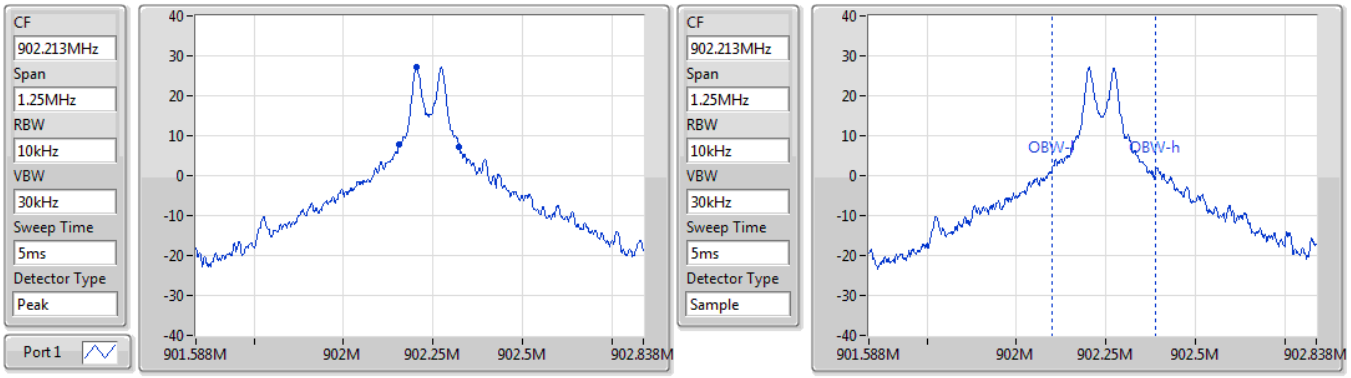
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
FSK-145k	-	-	-	-
902.213MHz	Pass	Inf	168.478k	289.436k
915.378MHz	Pass	Inf	219.203k	350.941k
927.492MHz	Pass	Inf	164.855k	291.245k

Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

FSK-145k **EBW-FS**

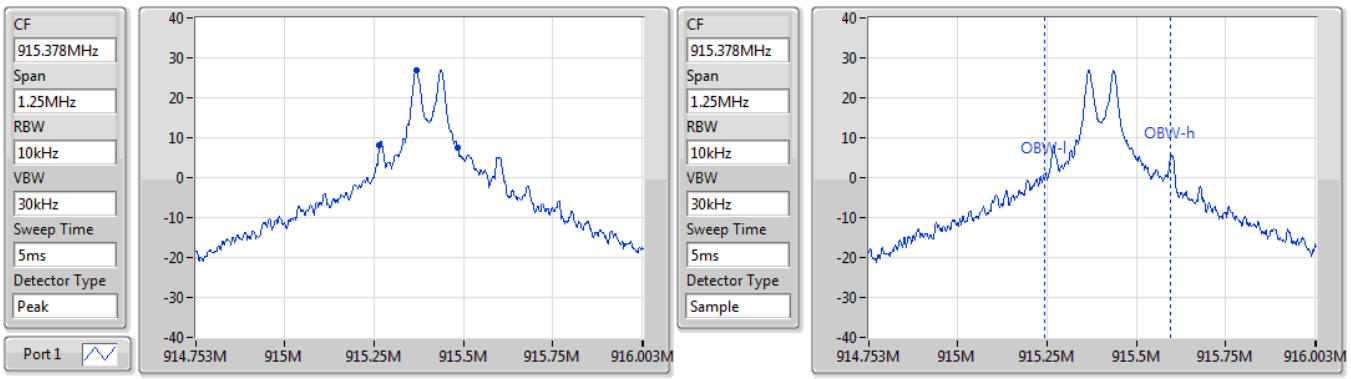
902.213MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
168.478k	902.155029M	902.323507M	289.436k	902.099035M	902.38847M	Inf	1

FSK-145k **EBW-FS**

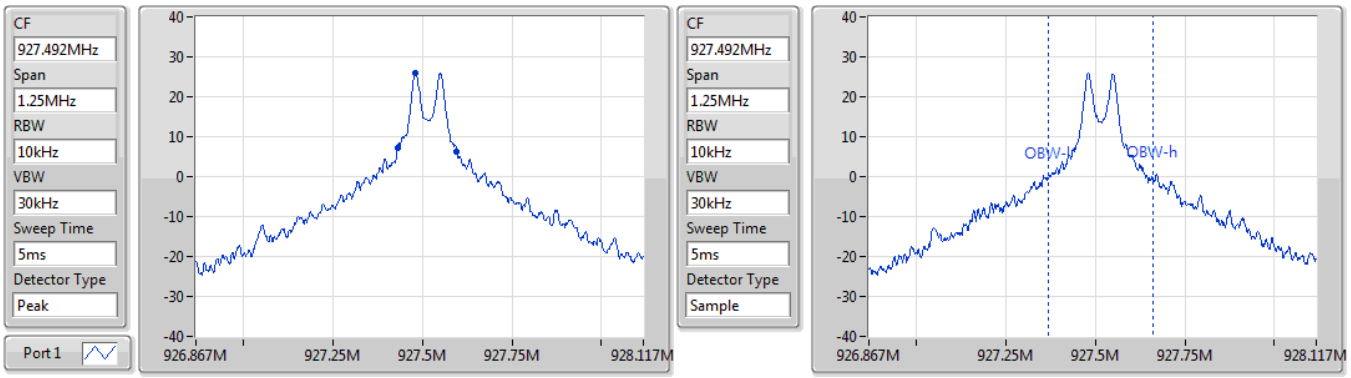
915.378MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
219.203k	915.265681M	915.484884M	350.941k	915.244136M	915.595077M	Inf	1

FSK-145k **EBW-FS**

927.492MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
164.855k	927.430406M	927.595261M	291.245k	927.36899M	927.660234M	Inf	1

Model: CL4490-1000-232

Summary

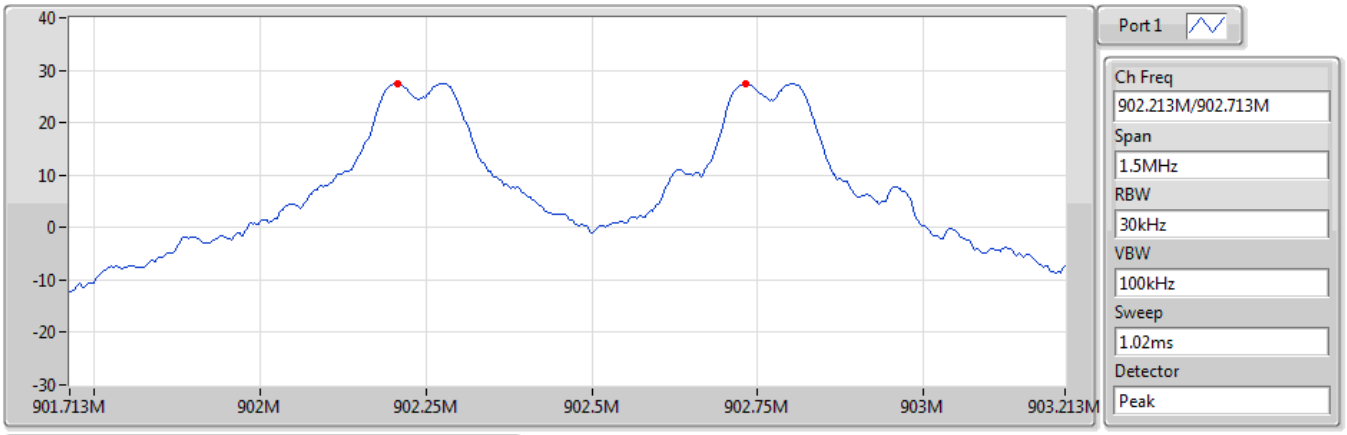
Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
FSK-145k	528.26087k	282.608696k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
FSK-145k	-	-	-	-	-
902.213MHz	Pass	902.206478M	902.732565M	526.086957k	170.29k
915.378MHz	Pass	915.369304M	915.897565M	528.26087k	148.551k
927.492MHz	Pass	927.20287M	927.485478M	282.608696k	168.478k

FSK-145k **Channel Separation-FS**

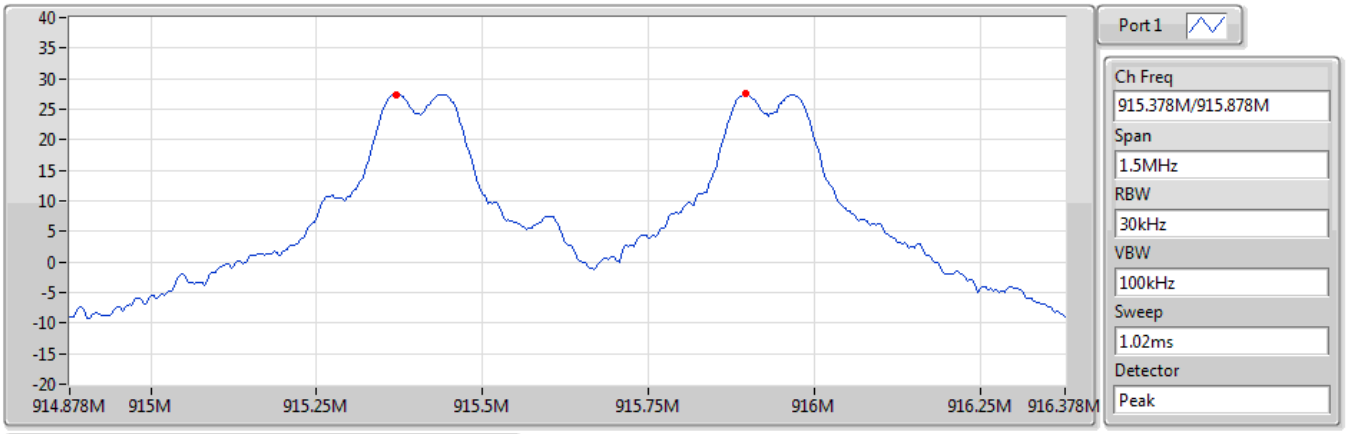
902.213M/902.713MHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
902.206478M	902.732565M	526.086957k	170.29k

FSK-145k **Channel Separation-FS**

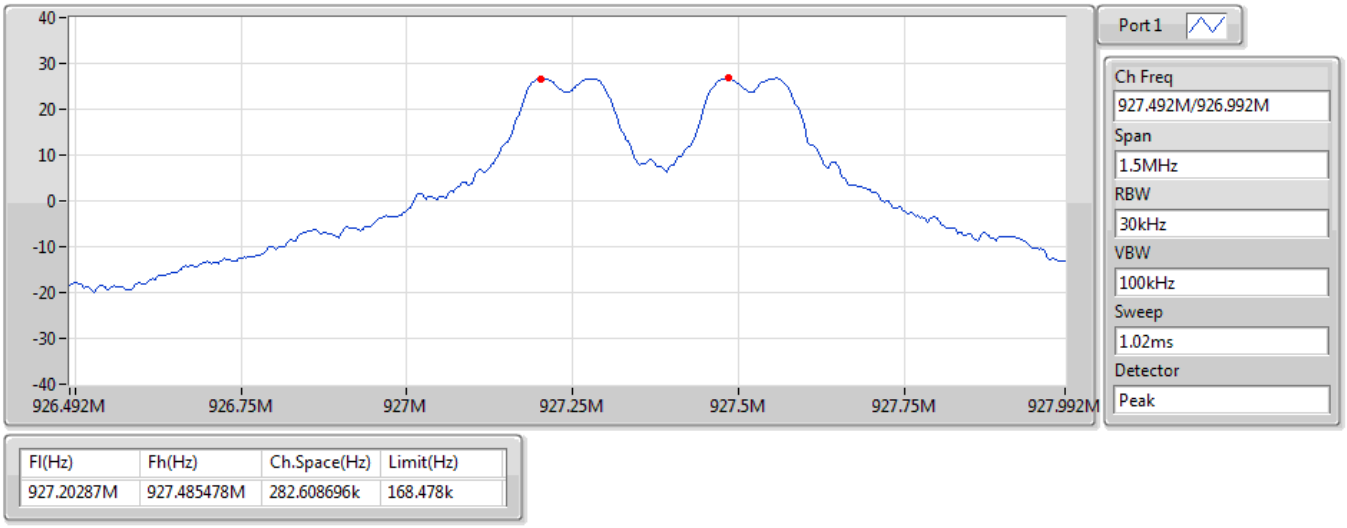
915.378M/915.878MHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
915.369304M	915.897565M	528.26087k	148.551k

FSK-145k **Channel Separation-FS**

927.492M/926.992MHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
927.20287M	927.485478M	282.608696k	168.478k

Model: CL4490-1000-PRO Summary

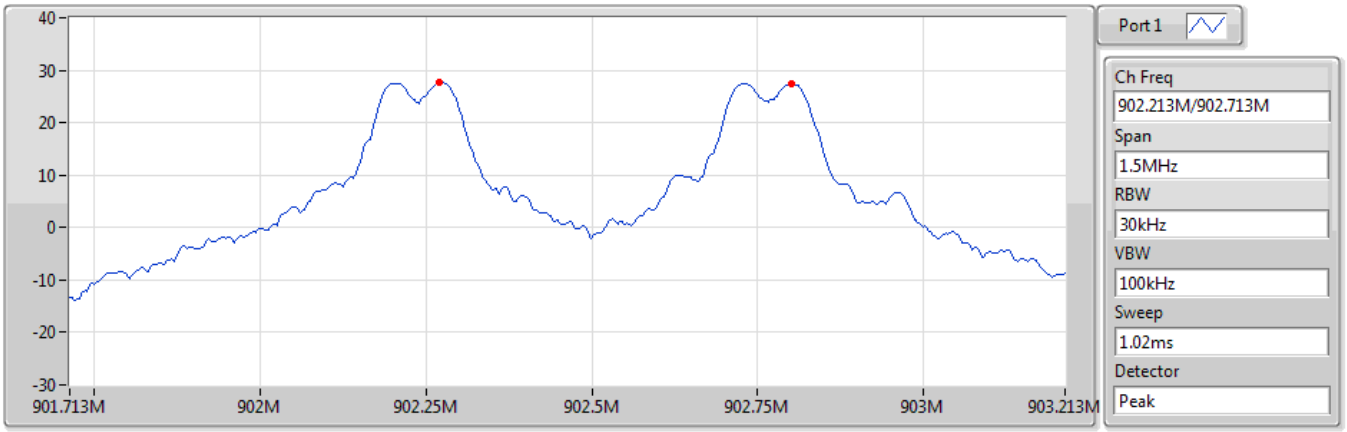
Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
FSK-145k	530.434783k	280.434783k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
FSK-145k	-	-	-	-	-
902.213MHz	Pass	902.269522M	902.799957M	530.434783k	168.478k
915.378MHz	Pass	915.36713M	915.893217M	526.086957k	219.203k
927.492MHz	Pass	927.20287M	927.483304M	280.434783k	164.855k

FSK-145k **Channel Separation-FS**

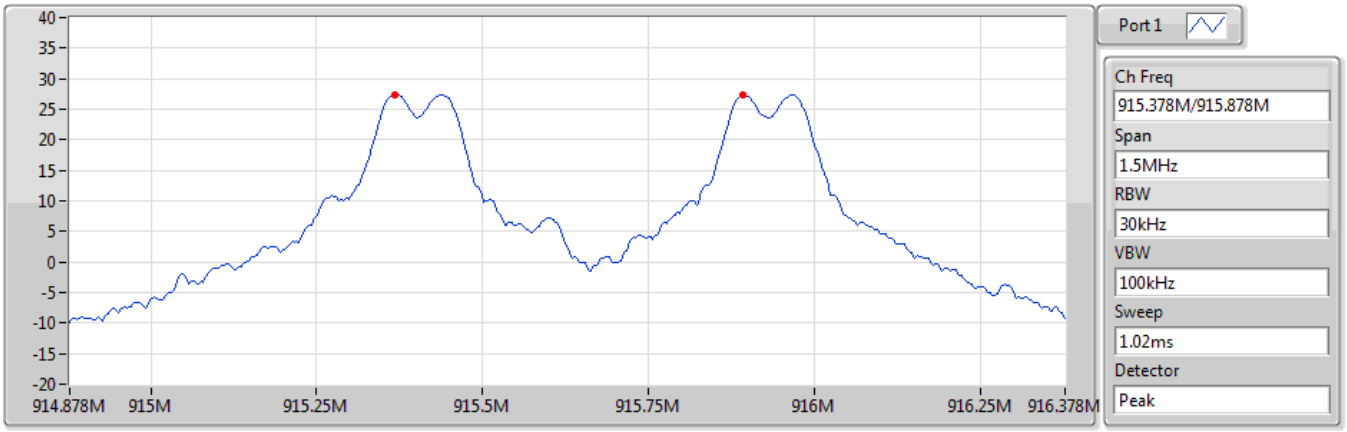
902.213M/902.713MHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
902.269522M	902.799957M	530.434783k	168.478k

FSK-145k **Channel Separation-FS**

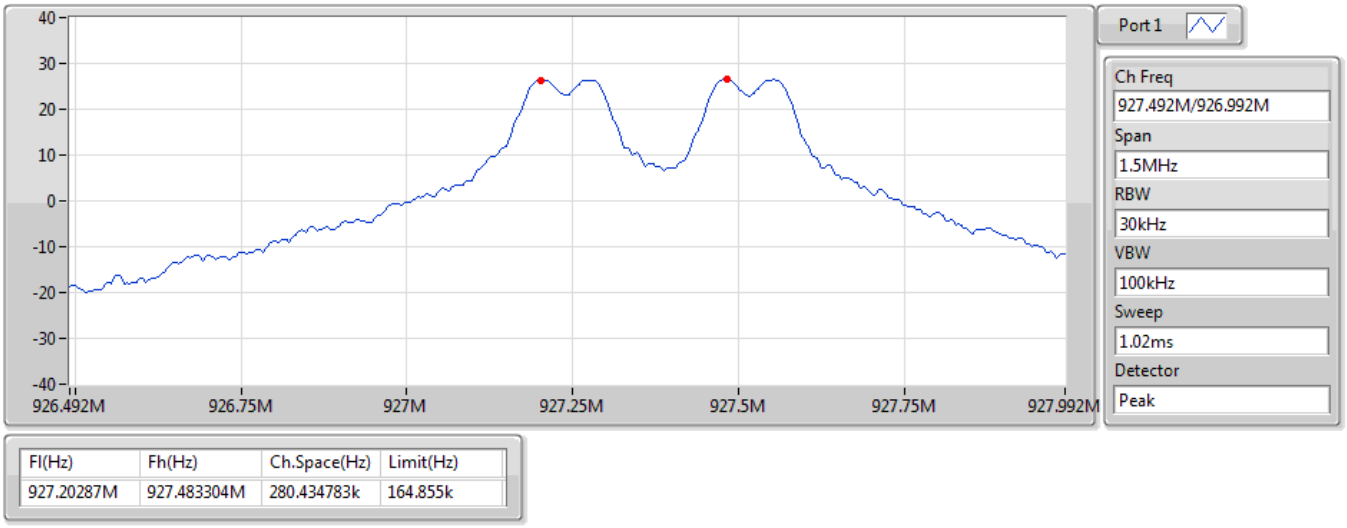
915.378M/915.878MHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
915.36713M	915.893217M	526.086957k	219.203k

FSK-145k **Channel Separation-FS**

927.492M/926.992MHz



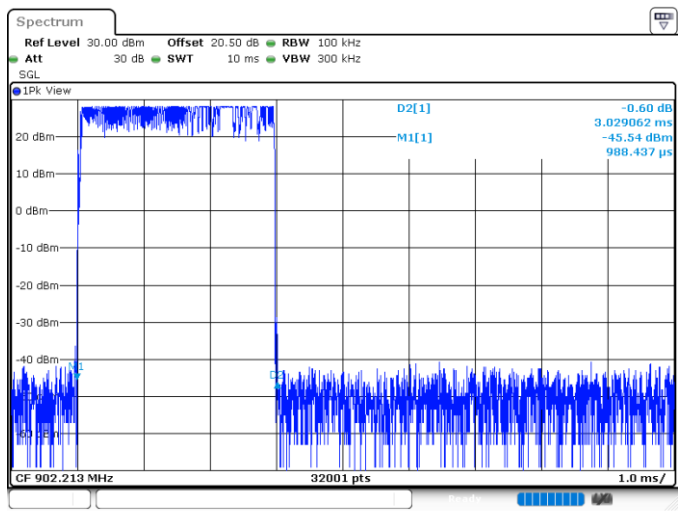
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
927.20287M	927.483304M	280.434783k	164.855k

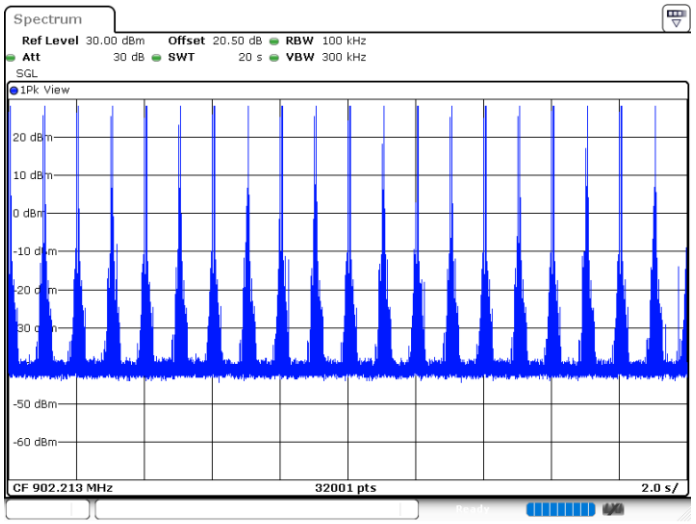
50 hopping channels / 20mS hop period

Model: CL4490-1000-232

Modulation Mode	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 20 S	Result (s)	Limit (s)
FSK	902.213	0.003029062	20	0.06058124	0.4

FSK



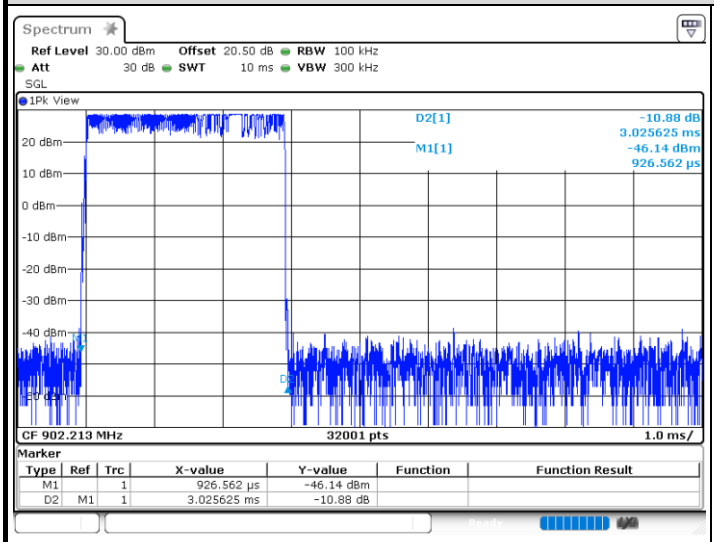


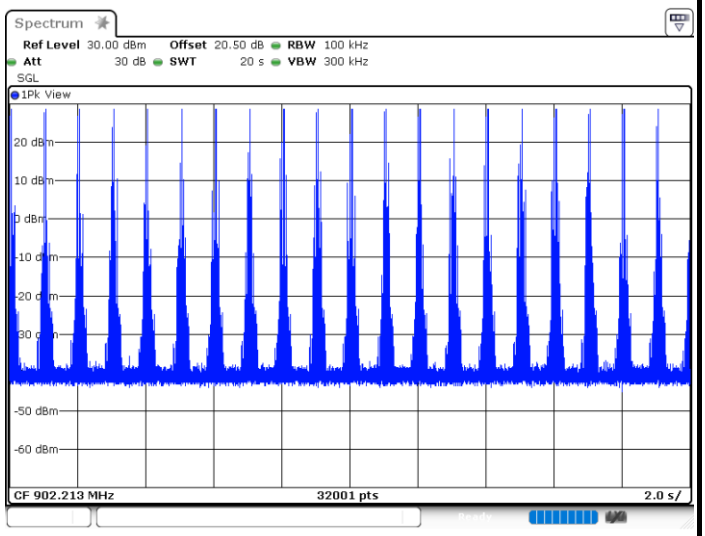
50 hopping channels / 20mS hop period

Model: CL4490-1000-PRO

Modulation Mode	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 20 S	Result (s)	Limit (s)
FSK	902.213	0.003025625	20	0.0605125	0.4

FSK



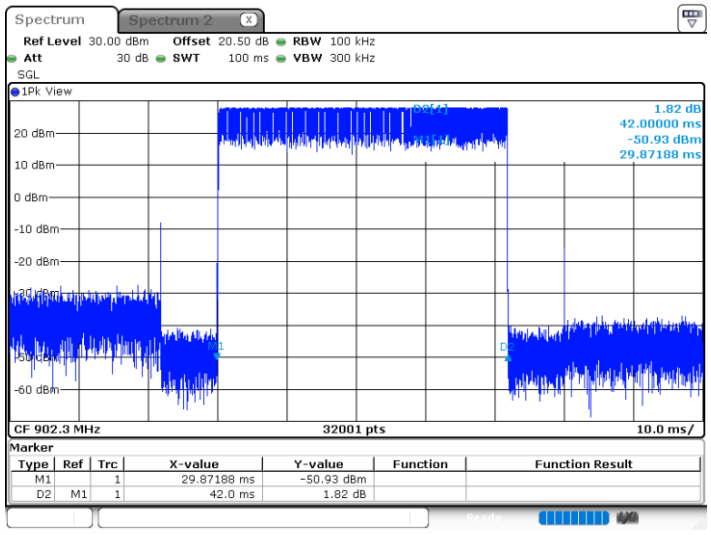


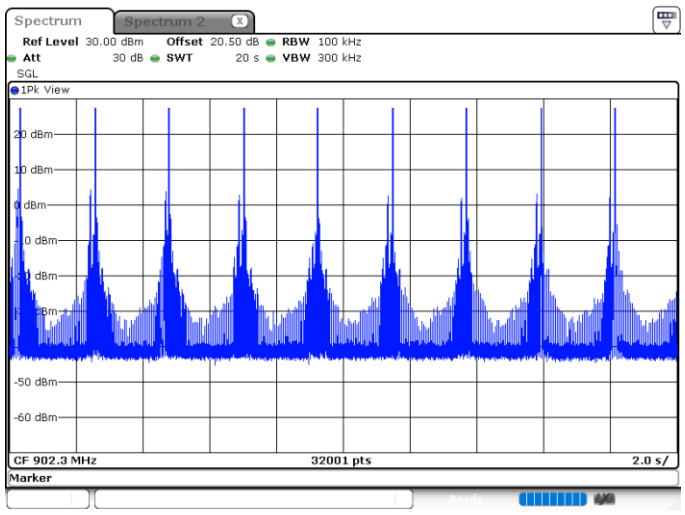
50 hopping channels / 50mS hop period

Model: CL4790-1000-232

Modulation Mode	Freq. (MHz)	Length of Transmission Time (sec)	Number of Transmission in a 20 S	Result (s)	Limit (s)
FSK	902.213	0.042	9	0.378	0.4

FSK

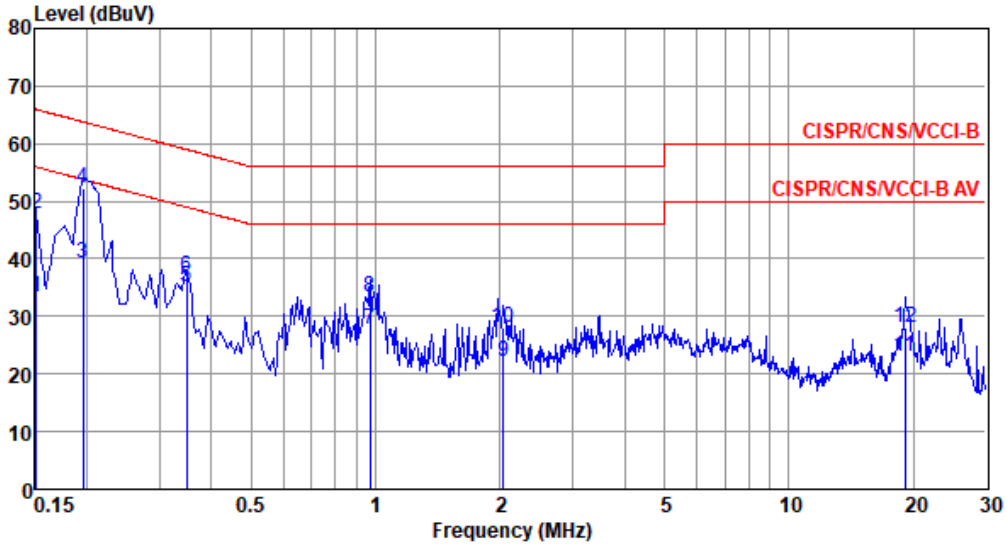




Model: CL4490-1000-232

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

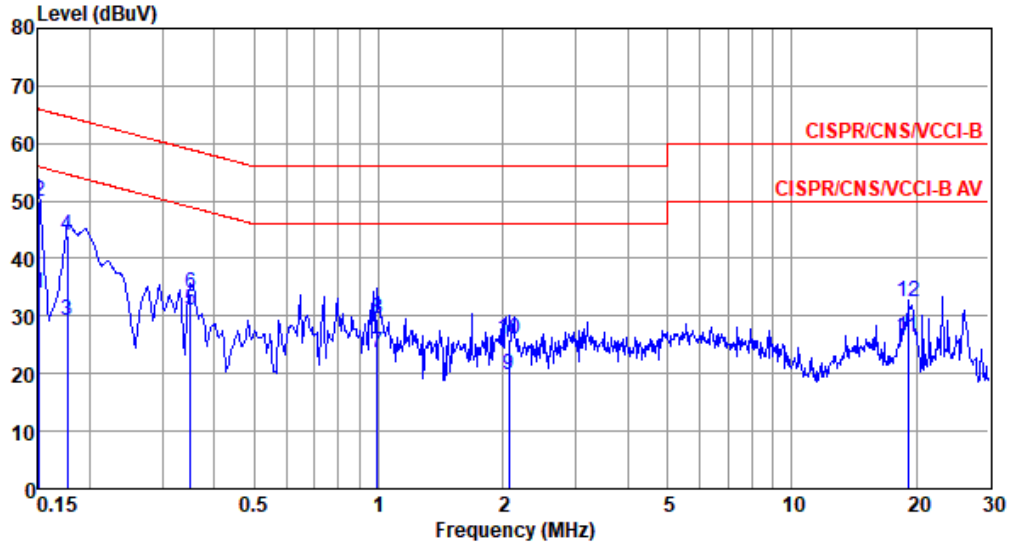


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.151	33.24	55.96	-22.72	23.36	9.60	0.08	0.20	Average
2	0.151	47.94	65.96	-18.02	38.06	9.60	0.08	0.20	QP
3	0.195	39.14	53.80	-14.66	29.23	9.61	0.08	0.22	Average
4*	0.195	52.20	63.80	-11.60	42.29	9.61	0.08	0.22	QP
5	0.348	35.13	49.00	-13.87	25.12	9.60	0.08	0.33	Average
6	0.348	36.92	59.00	-22.08	26.91	9.60	0.08	0.33	QP
7	0.968	27.66	46.00	-18.34	17.52	9.61	0.16	0.37	Average
8	0.968	33.25	56.00	-22.75	23.11	9.61	0.16	0.37	QP
9	2.033	22.26	46.00	-23.74	12.05	9.62	0.20	0.39	Average
10	2.033	27.95	56.00	-28.05	17.74	9.62	0.20	0.39	QP
11	19.122	22.93	50.00	-27.07	12.07	9.59	0.64	0.63	Average
12	19.122	28.02	60.00	-31.98	17.16	9.59	0.64	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

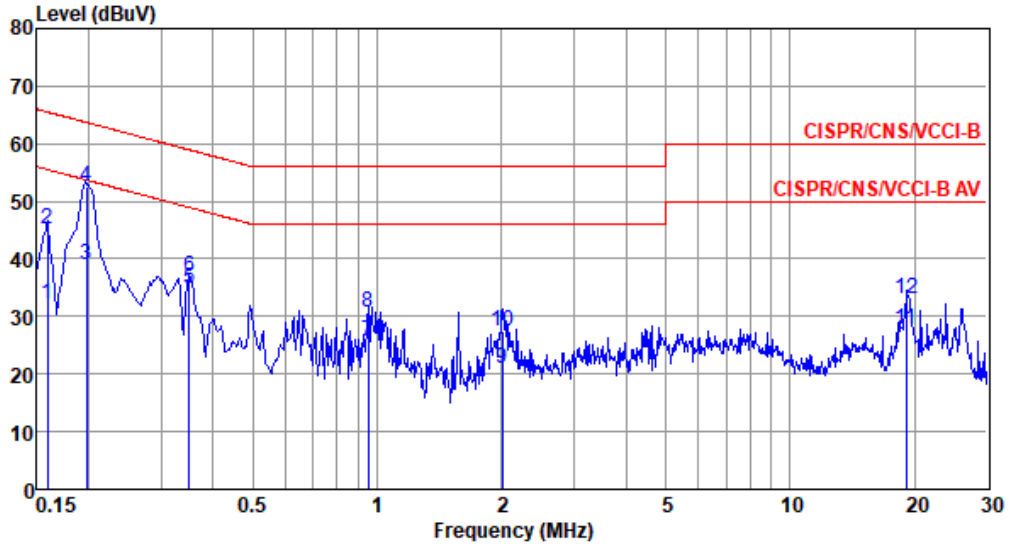


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.151	34.08	55.96	-21.88	24.25	9.59	0.08	0.16	Average
2*	0.151	49.94	65.96	-16.02	40.11	9.59	0.08	0.16	QP
3	0.177	29.14	54.64	-25.50	19.30	9.59	0.08	0.17	Average
4	0.177	44.13	64.64	-20.51	34.29	9.59	0.08	0.17	QP
5	0.350	31.05	48.96	-17.91	21.20	9.58	0.08	0.19	Average
6	0.350	34.00	58.96	-24.96	24.15	9.58	0.08	0.19	QP
7	0.994	23.75	46.00	-22.25	13.72	9.59	0.16	0.28	Average
8	0.994	29.50	56.00	-26.50	19.47	9.59	0.16	0.28	QP
9	2.066	19.74	46.00	-26.26	9.64	9.60	0.20	0.30	Average
10	2.066	25.89	56.00	-30.11	15.79	9.60	0.20	0.30	QP
11	19.122	26.15	50.00	-23.85	15.38	9.68	0.64	0.45	Average
12	19.122	32.50	60.00	-27.50	21.73	9.68	0.64	0.45	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	915.378
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

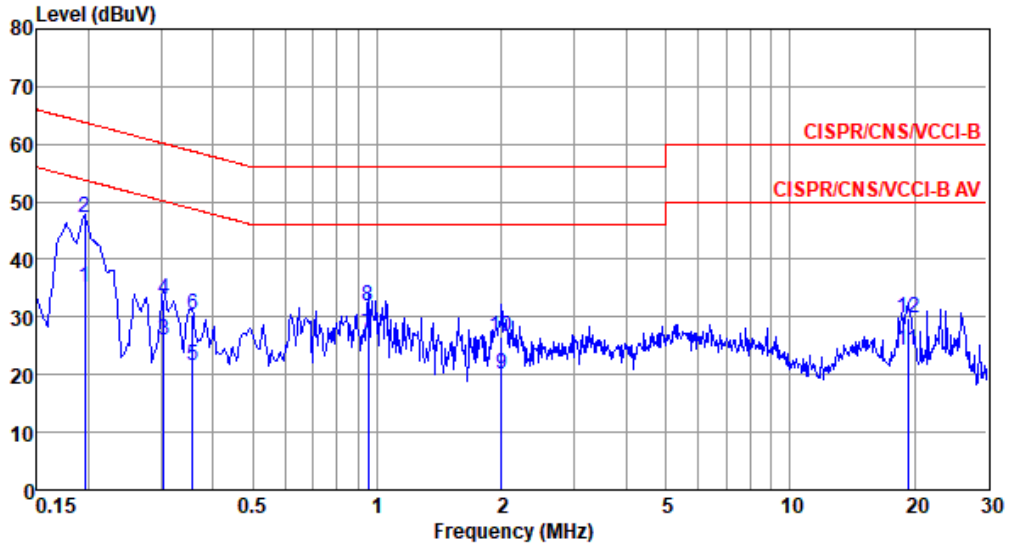


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	32.12	55.52	-23.40	22.24	9.60	0.08	0.20	Average
2	0.159	45.03	65.52	-20.49	35.15	9.60	0.08	0.20	QP
3	0.198	39.10	53.71	-14.61	29.19	9.61	0.08	0.22	Average
4*	0.198	52.41	63.71	-11.30	42.50	9.61	0.08	0.22	QP
5	0.350	34.94	48.96	-14.02	24.93	9.60	0.08	0.33	Average
6	0.350	36.87	58.96	-22.09	26.86	9.60	0.08	0.33	QP
7	0.953	25.76	46.00	-20.24	15.62	9.61	0.16	0.37	Average
8	0.953	30.69	56.00	-25.31	20.55	9.61	0.16	0.37	QP
9	2.012	20.82	46.00	-25.18	10.61	9.62	0.20	0.39	Average
10	2.012	27.48	56.00	-28.52	17.27	9.62	0.20	0.39	QP
11	19.122	27.81	50.00	-22.19	16.95	9.59	0.64	0.63	Average
12	19.122	33.01	60.00	-26.99	22.15	9.59	0.64	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	915.378
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

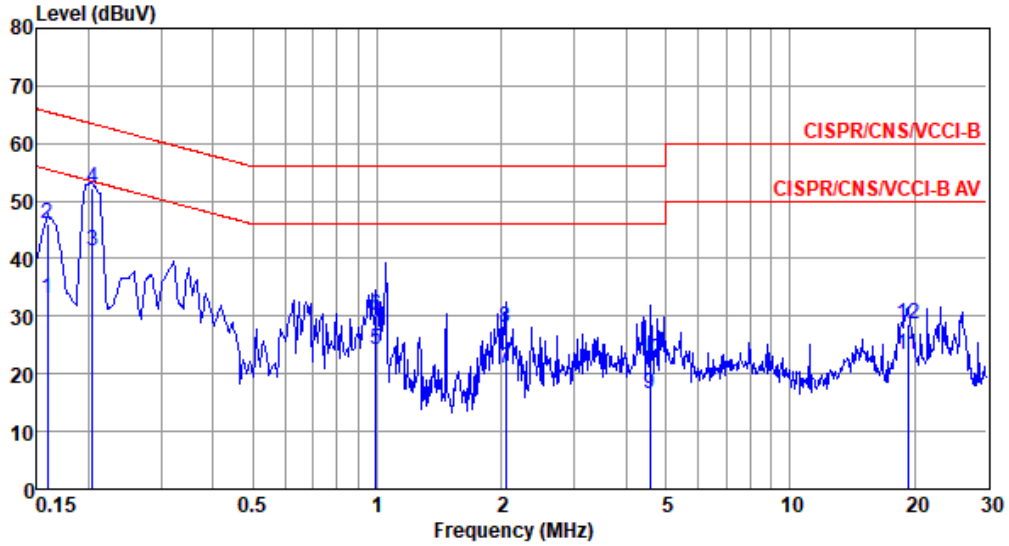


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.195	35.22	53.80	-18.58	25.37	9.59	0.08	0.18	Average
2*	0.195	47.32	63.80	-16.48	37.47	9.59	0.08	0.18	QP
3	0.303	25.99	50.15	-24.16	16.14	9.58	0.08	0.19	Average
4	0.303	33.09	60.15	-27.06	23.24	9.58	0.08	0.19	QP
5	0.358	21.61	48.78	-27.17	11.76	9.58	0.08	0.19	Average
6	0.358	30.27	58.78	-28.51	20.42	9.58	0.08	0.19	QP
7	0.953	26.73	46.00	-19.27	16.71	9.59	0.16	0.27	Average
8	0.953	31.98	56.00	-24.02	21.96	9.59	0.16	0.27	QP
9	2.001	20.08	46.00	-25.92	9.98	9.60	0.20	0.30	Average
10	2.001	26.60	56.00	-29.40	16.50	9.60	0.20	0.30	QP
11	19.326	24.10	50.00	-25.90	13.32	9.68	0.65	0.45	Average
12	19.326	29.70	60.00	-30.30	18.92	9.68	0.65	0.45	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	**Test Freq. (MHz)**	927.492
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

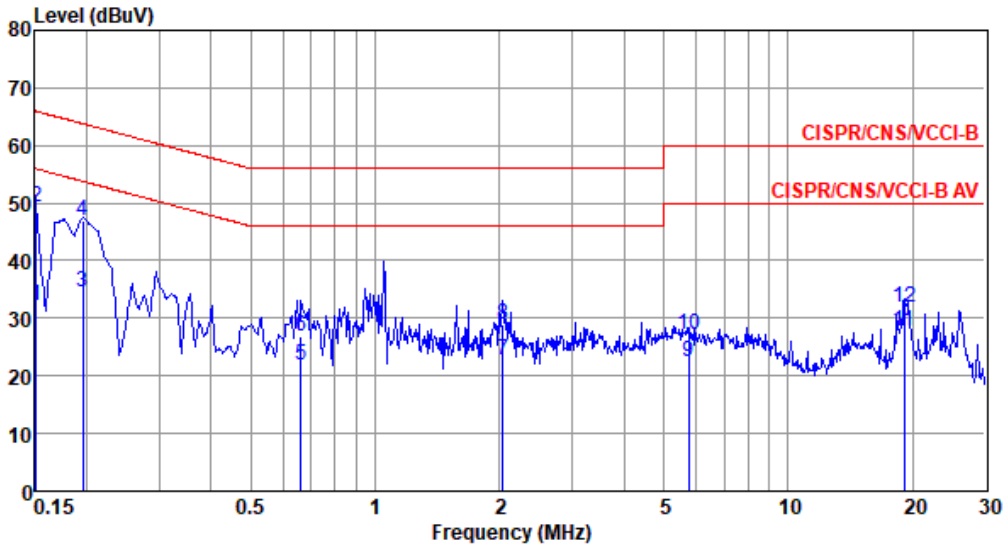


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	33.20	55.52	-22.32	23.32	9.60	0.08	0.20	Average
2	0.159	46.16	65.52	-19.36	36.28	9.60	0.08	0.20	QP
3	0.204	41.19	53.45	-12.26	31.28	9.61	0.08	0.22	Average
4*	0.204	52.26	63.45	-11.19	42.35	9.61	0.08	0.22	QP
5	0.994	24.09	46.00	-21.91	13.95	9.61	0.16	0.37	Average
6	0.994	30.21	56.00	-25.79	20.07	9.61	0.16	0.37	QP
7	2.044	21.07	46.00	-24.93	10.86	9.62	0.20	0.39	Average
8	2.044	27.90	56.00	-28.10	17.69	9.62	0.20	0.39	QP
9	4.574	16.67	46.00	-29.33	6.38	9.63	0.24	0.42	Average
10	4.574	22.50	56.00	-33.50	12.21	9.63	0.24	0.42	QP
11	19.326	23.40	50.00	-26.60	12.53	9.59	0.65	0.63	Average
12	19.326	28.60	60.00	-31.40	17.73	9.59	0.65	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	927.492
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%



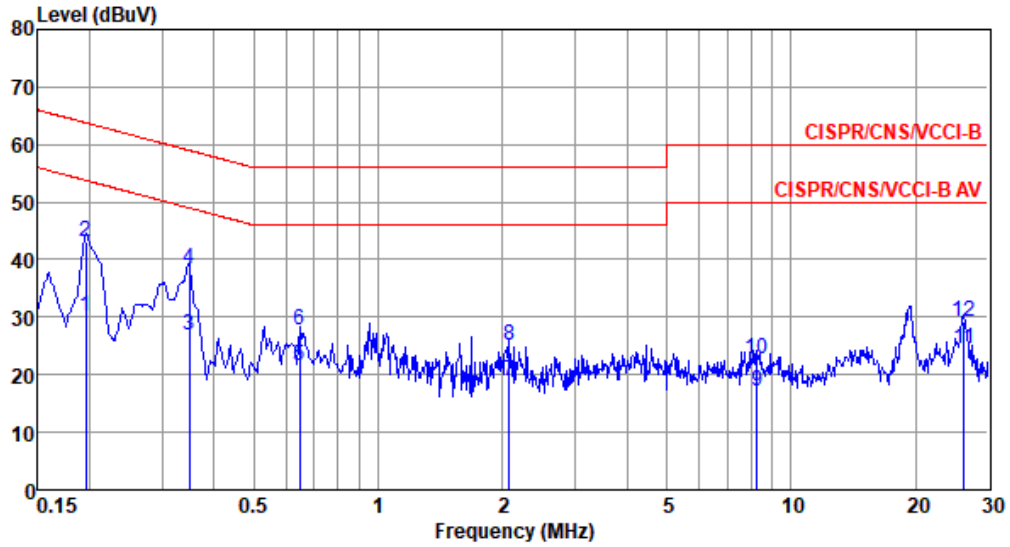
	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.151	32.31	55.96	-23.65	22.48	9.59	0.08	0.16	Average
2*	0.151	49.17	65.96	-16.79	39.34	9.59	0.08	0.16	QP
3	0.195	34.68	53.80	-19.12	24.83	9.59	0.08	0.18	Average
4	0.195	46.85	63.80	-16.95	37.00	9.59	0.08	0.18	QP
5	0.661	21.82	46.00	-24.18	11.87	9.59	0.12	0.24	Average
6	0.661	26.98	56.00	-29.02	17.03	9.59	0.12	0.24	QP
7	2.033	22.61	46.00	-23.39	12.51	9.60	0.20	0.30	Average
8	2.033	28.79	56.00	-27.21	18.69	9.60	0.20	0.30	QP
9	5.744	22.56	50.00	-27.44	12.28	9.63	0.30	0.35	Average
10	5.744	27.22	60.00	-32.78	16.94	9.63	0.30	0.35	QP
11	19.122	27.88	50.00	-22.12	17.11	9.68	0.64	0.45	Average
12	19.122	31.85	60.00	-28.15	21.08	9.68	0.64	0.45	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Model: CL4490-1000-485

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

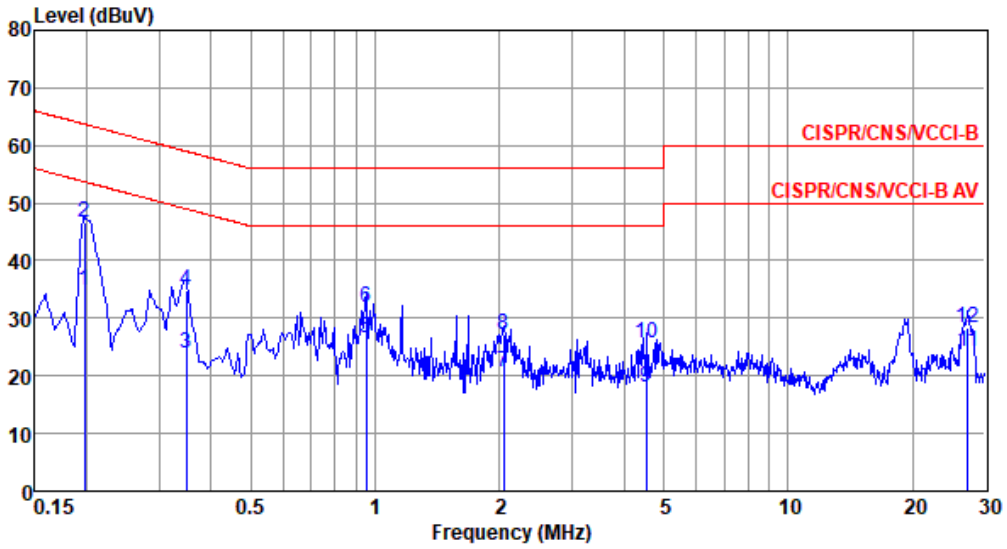


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.195	30.15	53.80	-23.65	20.24	9.61	0.08	0.22	Average
2	0.195	43.05	63.80	-20.75	33.14	9.61	0.08	0.22	QP
3	0.348	26.90	49.00	-22.10	16.89	9.60	0.08	0.33	Average
4*	0.348	38.46	59.00	-20.54	28.45	9.60	0.08	0.33	QP
5	0.644	21.68	46.00	-24.32	11.58	9.61	0.12	0.37	Average
6	0.644	27.85	56.00	-28.15	17.75	9.61	0.12	0.37	QP
7	2.077	19.01	46.00	-26.99	8.80	9.62	0.20	0.39	Average
8	2.077	24.96	56.00	-31.04	14.75	9.62	0.20	0.39	QP
9	8.279	17.06	50.00	-32.94	6.57	9.65	0.40	0.44	Average
10	8.279	22.67	60.00	-37.33	12.18	9.65	0.40	0.44	QP
11	26.278	24.59	50.00	-25.41	13.63	9.50	0.72	0.74	Average
12	26.278	29.34	60.00	-30.66	18.38	9.50	0.72	0.74	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

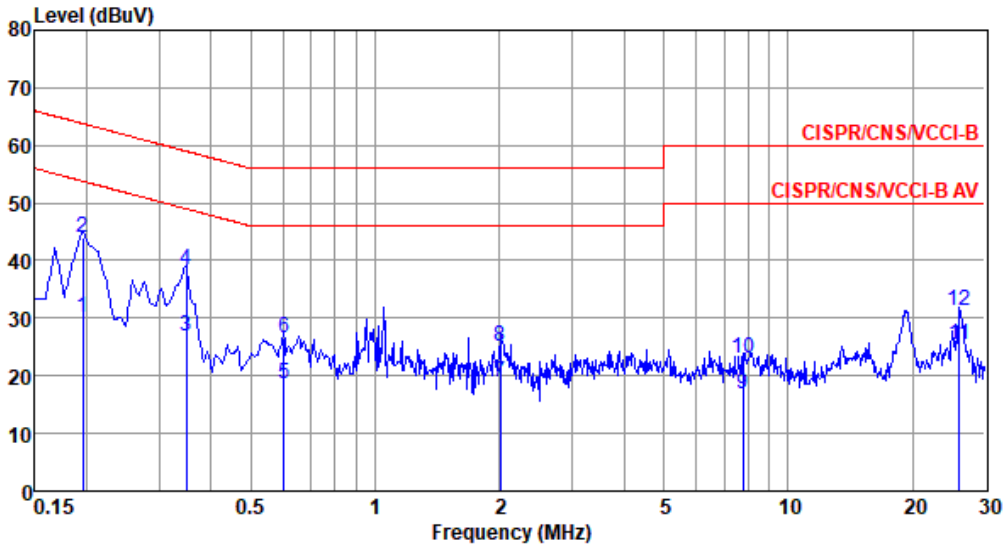


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.198	34.71	53.71	-19.00	24.86	9.59	0.08	0.18	Average
2*	0.198	46.61	63.71	-17.10	36.76	9.59	0.08	0.18	QP
3	0.348	23.84	49.00	-25.16	13.99	9.58	0.08	0.19	Average
4	0.348	34.71	59.00	-24.29	24.86	9.58	0.08	0.19	QP
5	0.953	26.58	46.00	-19.42	16.56	9.59	0.16	0.27	Average
6	0.953	31.88	56.00	-24.12	21.86	9.59	0.16	0.27	QP
7	2.044	20.54	46.00	-25.46	10.44	9.60	0.20	0.30	Average
8	2.044	27.25	56.00	-28.75	17.15	9.60	0.20	0.30	QP
9	4.525	17.87	46.00	-28.13	7.67	9.62	0.24	0.34	Average
10	4.525	25.62	56.00	-30.38	15.42	9.62	0.24	0.34	QP
11	27.271	24.09	50.00	-25.91	13.02	9.65	0.74	0.68	Average
12	27.271	28.28	60.00	-31.72	17.21	9.65	0.74	0.68	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	915.378
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

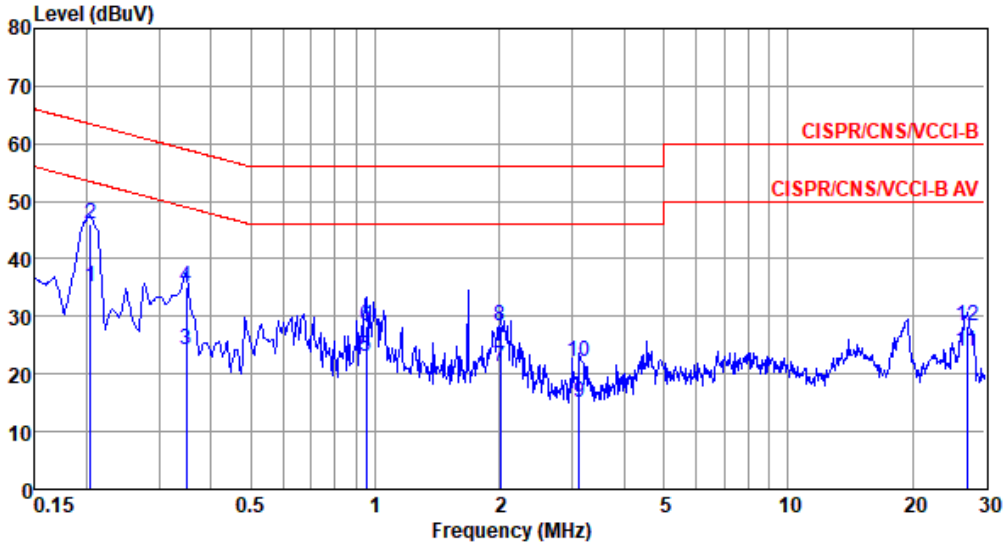


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.195	30.16	53.80	-23.64	20.25	9.61	0.08	0.22	Average
2*	0.195	43.84	63.80	-19.96	33.93	9.61	0.08	0.22	QP
3	0.348	26.93	49.00	-22.07	16.92	9.60	0.08	0.33	Average
4	0.348	38.47	59.00	-20.53	28.46	9.60	0.08	0.33	QP
5	0.601	18.66	46.00	-27.34	8.58	9.60	0.12	0.36	Average
6	0.601	26.60	56.00	-29.40	16.52	9.60	0.12	0.36	QP
7	2.012	18.94	46.00	-27.06	8.73	9.62	0.20	0.39	Average
8	2.012	25.03	56.00	-30.97	14.82	9.62	0.20	0.39	QP
9	7.769	16.82	50.00	-33.18	6.37	9.64	0.38	0.43	Average
10	7.769	22.97	60.00	-37.03	12.52	9.64	0.38	0.43	QP
11	26.001	25.40	50.00	-24.60	14.47	9.50	0.71	0.72	Average
12	26.001	31.28	60.00	-28.72	20.35	9.50	0.71	0.72	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	**Test Freq. (MHz)**	915.378
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

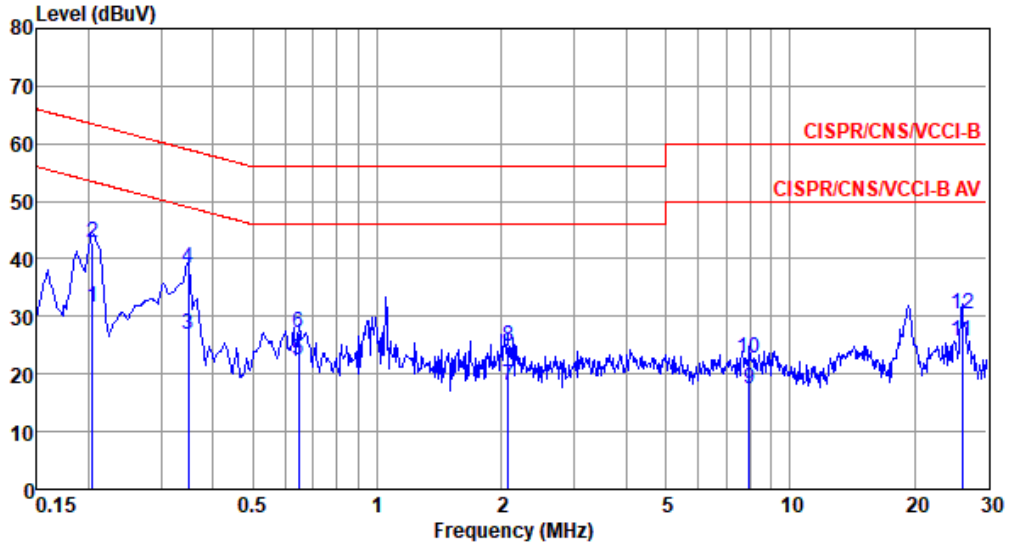


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.204	35.22	53.45	-18.23	25.37	9.59	0.08	0.18	Average
2*	0.204	45.91	63.45	-17.54	36.06	9.59	0.08	0.18	QP
3	0.348	24.07	49.00	-24.93	14.22	9.58	0.08	0.19	Average
4	0.348	35.25	59.00	-23.75	25.40	9.58	0.08	0.19	QP
5	0.953	23.16	46.00	-22.84	13.14	9.59	0.16	0.27	Average
6	0.953	28.26	56.00	-27.74	18.24	9.59	0.16	0.27	QP
7	2.012	21.35	46.00	-24.65	11.25	9.60	0.20	0.30	Average
8	2.012	28.36	56.00	-27.64	18.26	9.60	0.20	0.30	QP
9	3.123	15.13	46.00	-30.87	4.99	9.61	0.21	0.32	Average
10	3.123	22.22	56.00	-33.78	12.08	9.61	0.21	0.32	QP
11	27.127	23.91	50.00	-26.09	12.85	9.65	0.74	0.67	Average
12	27.127	28.26	60.00	-31.74	17.20	9.65	0.74	0.67	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	927.492
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

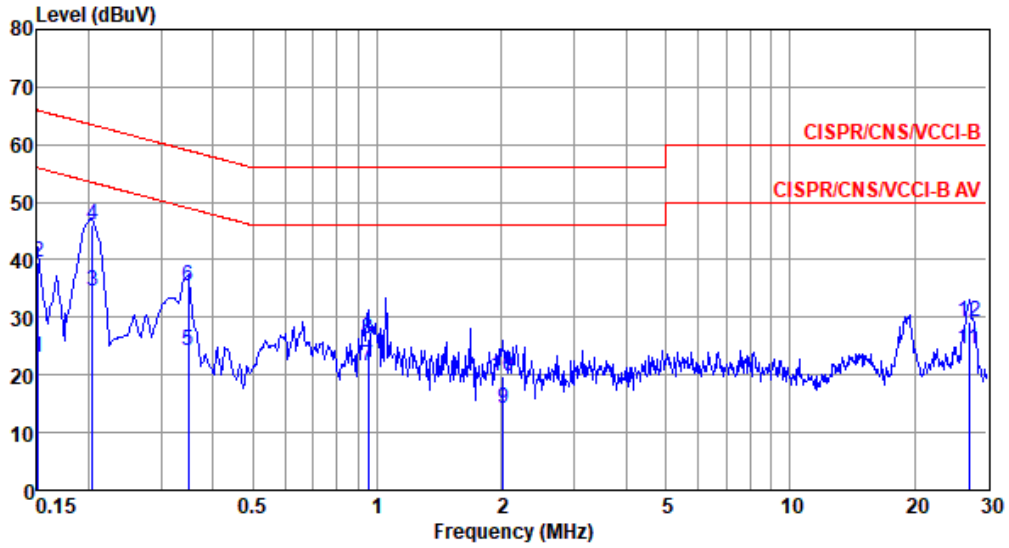


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.204	31.59	53.45	-21.86	21.68	9.61	0.08	0.22	Average
2*	0.204	42.93	63.45	-20.52	33.02	9.61	0.08	0.22	QP
3	0.348	26.97	49.00	-22.03	16.96	9.60	0.08	0.33	Average
4	0.348	38.47	59.00	-20.53	28.46	9.60	0.08	0.33	QP
5	0.644	22.33	46.00	-23.67	12.23	9.61	0.12	0.37	Average
6	0.644	27.29	56.00	-28.71	17.19	9.61	0.12	0.37	QP
7	2.077	18.11	46.00	-27.89	7.90	9.62	0.20	0.39	Average
8	2.077	24.80	56.00	-31.20	14.59	9.62	0.20	0.39	QP
9	7.977	17.48	50.00	-32.52	7.00	9.65	0.39	0.44	Average
10	7.977	22.83	60.00	-37.17	12.35	9.65	0.39	0.44	QP
11	26.139	25.69	50.00	-24.31	14.75	9.50	0.71	0.73	Average
12	26.139	30.46	60.00	-29.54	19.52	9.50	0.71	0.73	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	**Test Freq. (MHz)**	927.492
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%



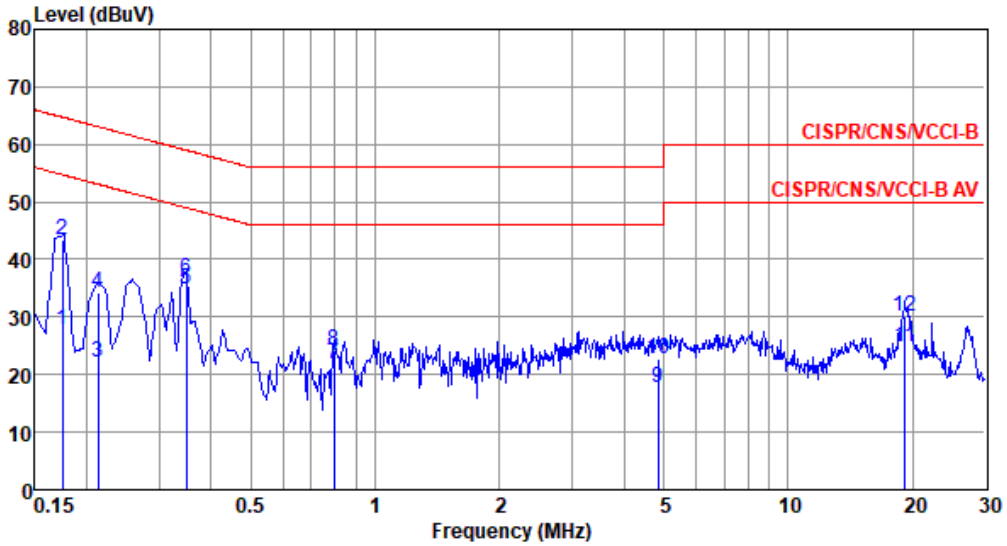
	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.151	23.00	55.96	-32.96	13.17	9.59	0.08	0.16	Average
2	0.151	39.51	65.96	-26.45	29.68	9.59	0.08	0.16	QP
3	0.204	34.62	53.45	-18.83	24.77	9.59	0.08	0.18	Average
4*	0.204	46.05	63.45	-17.40	36.20	9.59	0.08	0.18	QP
5	0.348	24.25	49.00	-24.75	14.40	9.58	0.08	0.19	Average
6	0.348	35.57	59.00	-23.43	25.72	9.58	0.08	0.19	QP
7	0.953	21.48	46.00	-24.52	11.46	9.59	0.16	0.27	Average
8	0.953	26.35	56.00	-29.65	16.33	9.59	0.16	0.27	QP
9	2.023	14.06	46.00	-31.94	3.96	9.60	0.20	0.30	Average
10	2.023	19.83	56.00	-36.17	9.73	9.60	0.20	0.30	QP
11	27.127	24.63	50.00	-25.37	13.57	9.65	0.74	0.67	Average
12	27.127	29.11	60.00	-30.89	18.05	9.65	0.74	0.67	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Model: CL4490-1000-PRO

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

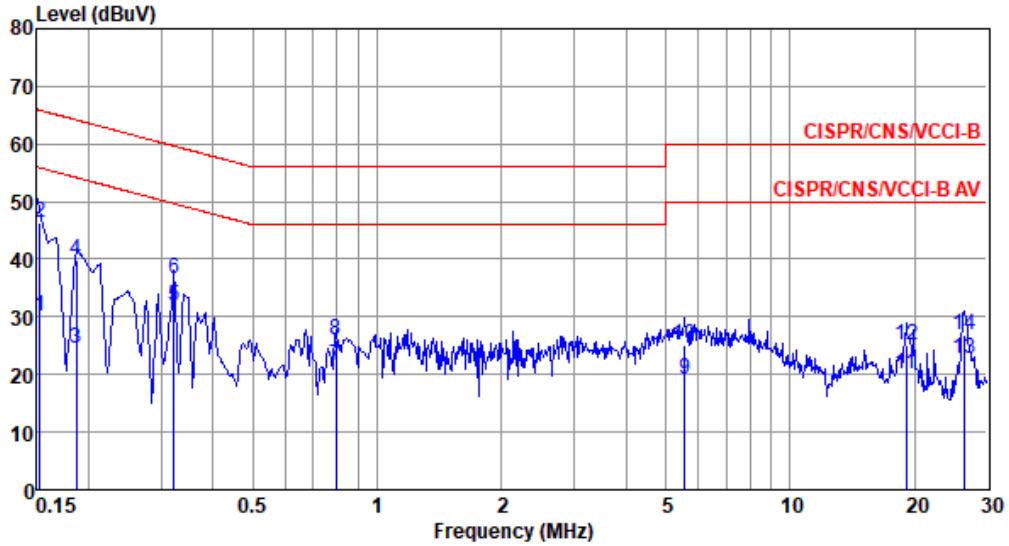


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.175	27.82	54.72	-26.90	17.92	9.61	0.08	0.21	Average
2	0.175	43.30	64.72	-21.42	33.40	9.61	0.08	0.21	QP
3	0.213	22.27	53.10	-30.83	12.35	9.61	0.08	0.23	Average
4	0.213	34.19	63.10	-28.91	24.27	9.61	0.08	0.23	QP
5*	0.348	34.71	49.00	-14.29	24.70	9.60	0.08	0.33	Average
6	0.348	36.73	59.00	-22.27	26.72	9.60	0.08	0.33	QP
7	0.796	21.75	46.00	-24.25	11.63	9.61	0.14	0.37	Average
8	0.796	24.31	56.00	-31.69	14.19	9.61	0.14	0.37	QP
9	4.848	17.76	46.00	-28.24	7.45	9.63	0.26	0.42	Average
10	4.848	22.80	56.00	-33.20	12.49	9.63	0.26	0.42	QP
11	19.224	24.76	50.00	-25.24	13.89	9.59	0.65	0.63	Average
12	19.224	30.15	60.00	-29.85	19.28	9.59	0.65	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	902.213
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

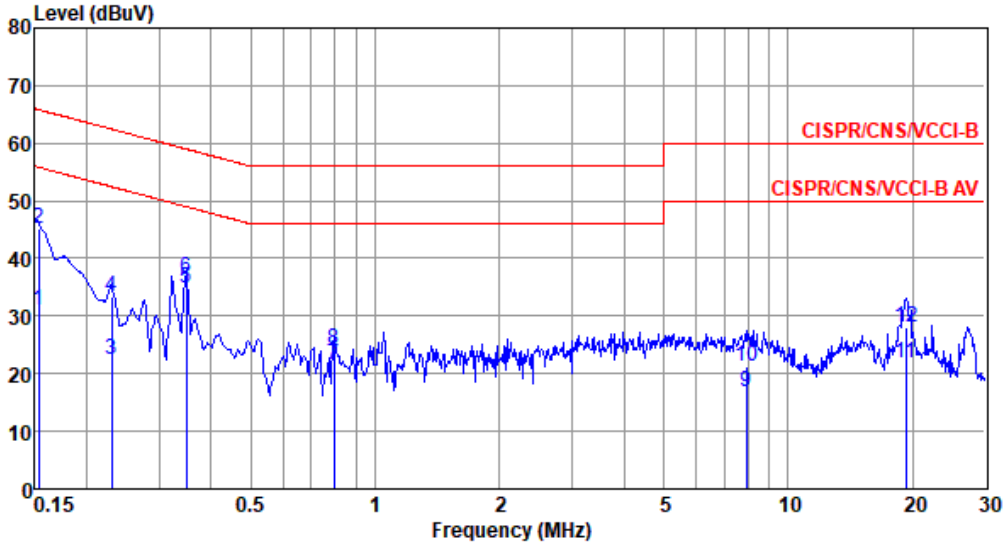


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.152	30.19	55.87	-25.68	20.36	9.59	0.08	0.16	Average
2	0.152	46.26	65.87	-19.61	36.43	9.59	0.08	0.16	QP
3	0.186	24.48	54.20	-29.72	14.64	9.59	0.08	0.17	Average
4	0.186	39.90	64.20	-24.30	30.06	9.59	0.08	0.17	QP
5*	0.322	31.74	49.66	-17.92	21.89	9.58	0.08	0.19	Average
6	0.322	36.58	59.66	-23.08	26.73	9.58	0.08	0.19	QP
7	0.796	21.54	46.00	-24.46	11.55	9.59	0.14	0.26	Average
8	0.796	25.88	56.00	-30.12	15.89	9.59	0.14	0.26	QP
9	5.564	19.16	50.00	-30.84	8.91	9.62	0.29	0.34	Average
10	5.564	25.16	60.00	-34.84	14.91	9.62	0.29	0.34	QP
11	19.122	20.15	50.00	-29.85	9.38	9.68	0.64	0.45	Average
12	19.122	25.12	60.00	-34.88	14.35	9.68	0.64	0.45	QP
13	26.418	22.61	50.00	-27.39	11.61	9.65	0.72	0.63	Average
14	26.418	26.95	60.00	-33.05	15.95	9.65	0.72	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	**Test Freq. (MHz)**	915.378
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

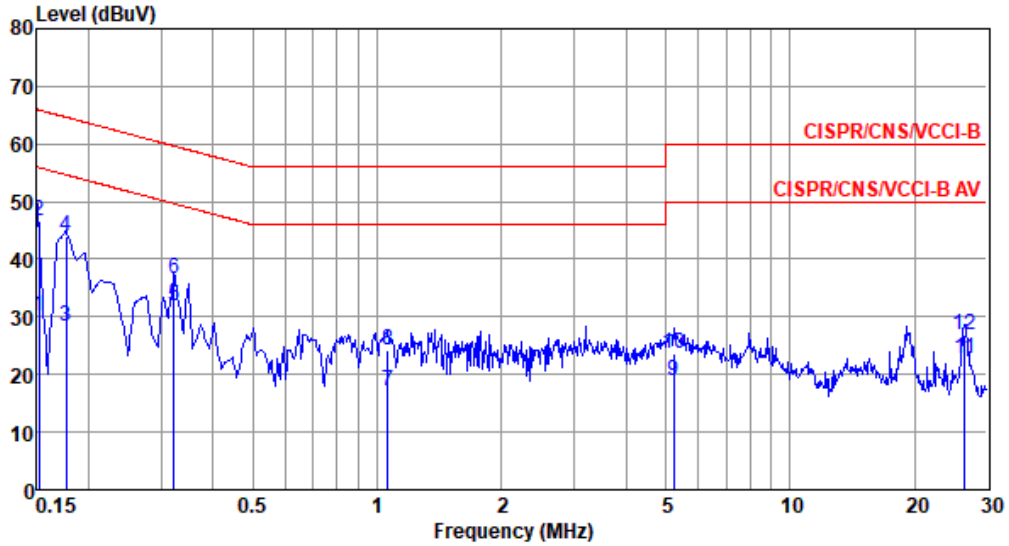


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.153	30.88	55.82	-24.94	21.00	9.60	0.08	0.20	Average
2	0.153	45.11	65.82	-20.71	35.23	9.60	0.08	0.20	QP
3	0.230	22.40	52.44	-30.04	12.46	9.61	0.08	0.25	Average
4	0.230	33.48	62.44	-28.96	23.54	9.61	0.08	0.25	QP
5*	0.348	34.76	49.00	-14.24	24.75	9.60	0.08	0.33	Average
6	0.348	36.72	59.00	-22.28	26.71	9.60	0.08	0.33	QP
7	0.796	21.63	46.00	-24.37	11.51	9.61	0.14	0.37	Average
8	0.796	24.26	56.00	-31.74	14.14	9.61	0.14	0.37	QP
9	7.935	16.77	50.00	-33.23	6.30	9.64	0.39	0.44	Average
10	7.935	21.25	60.00	-38.75	10.78	9.64	0.39	0.44	QP
11	19.326	21.94	50.00	-28.06	11.07	9.59	0.65	0.63	Average
12	19.326	28.02	60.00	-31.98	17.15	9.59	0.65	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	915.378
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

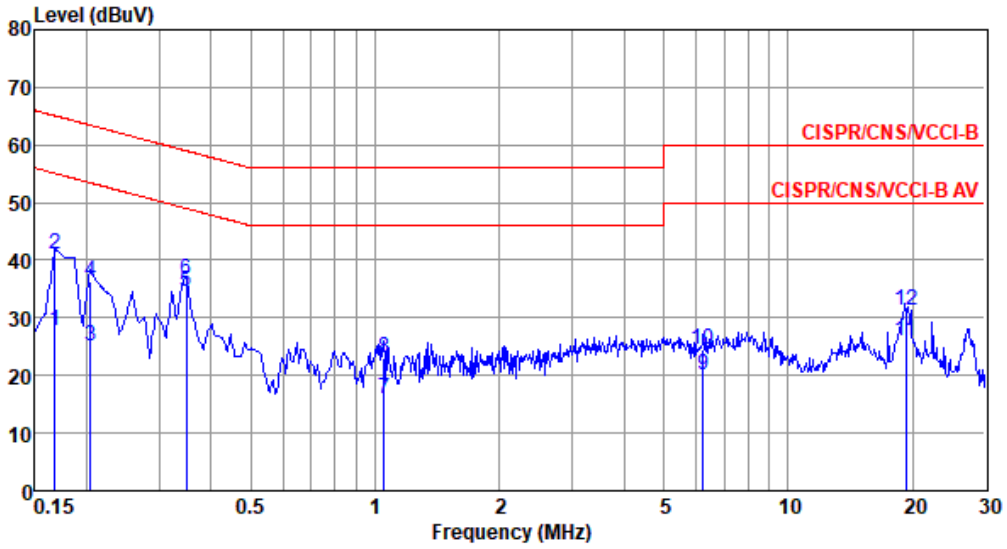


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.152	30.09	55.91	-25.82	20.26	9.59	0.08	0.16	Average
2	0.152	46.51	65.91	-19.40	36.68	9.59	0.08	0.16	QP
3	0.177	28.35	54.64	-26.29	18.51	9.59	0.08	0.17	Average
4	0.177	44.08	64.64	-20.56	34.24	9.59	0.08	0.17	QP
5*	0.322	31.77	49.66	-17.89	21.92	9.58	0.08	0.19	Average
6	0.322	36.54	59.66	-23.12	26.69	9.58	0.08	0.19	QP
7	1.060	17.11	46.00	-28.89	7.08	9.59	0.16	0.28	Average
8	1.060	24.29	56.00	-31.71	14.26	9.59	0.16	0.28	QP
9	5.221	18.76	50.00	-31.24	8.52	9.62	0.28	0.34	Average
10	5.221	23.68	60.00	-36.32	13.44	9.62	0.28	0.34	QP
11	26.418	22.71	50.00	-27.29	11.71	9.65	0.72	0.63	Average
12	26.418	26.99	60.00	-33.01	15.99	9.65	0.72	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	Test Freq. (MHz)	927.492
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 61%

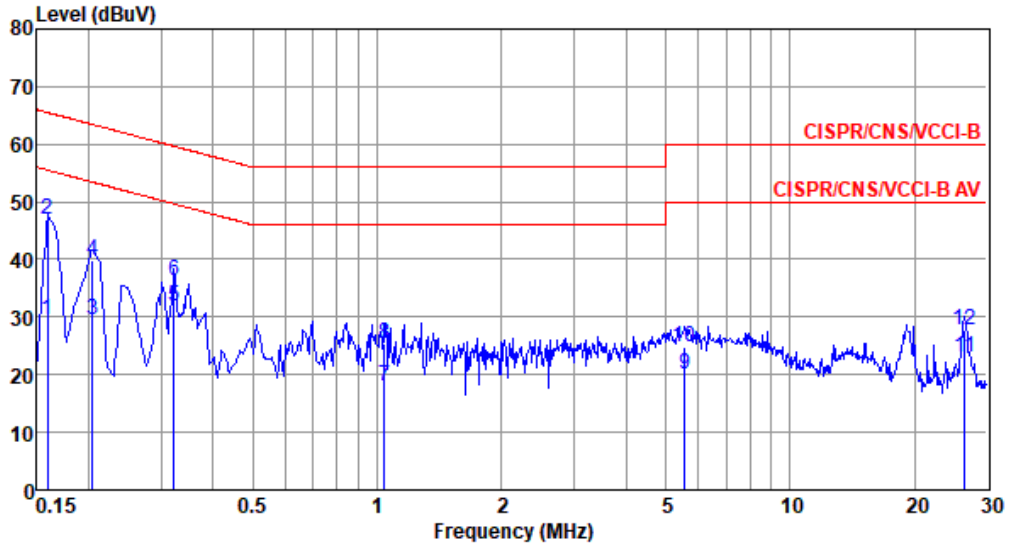


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.168	27.69	55.08	-27.39	17.80	9.60	0.08	0.21	Average
2	0.168	41.13	65.08	-23.95	31.24	9.60	0.08	0.21	QP
3	0.204	25.02	53.45	-28.43	15.11	9.61	0.08	0.22	Average
4	0.204	36.20	63.45	-27.25	26.29	9.61	0.08	0.22	QP
5*	0.348	34.66	49.00	-14.34	24.65	9.60	0.08	0.33	Average
6	0.348	36.71	59.00	-22.29	26.70	9.60	0.08	0.33	QP
7	1.049	15.96	46.00	-30.04	5.82	9.61	0.16	0.37	Average
8	1.049	23.13	56.00	-32.87	12.99	9.61	0.16	0.37	QP
9	6.219	20.16	50.00	-29.84	9.77	9.64	0.32	0.43	Average
10	6.219	24.51	60.00	-35.49	14.12	9.64	0.32	0.43	QP
11	19.326	26.02	50.00	-23.98	15.15	9.59	0.65	0.63	Average
12	19.326	31.36	60.00	-28.64	20.49	9.59	0.65	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation Mod	FSK	**Test Freq. (MHz)**	927.492
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 61%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	29.64	55.52	-25.88	19.81	9.59	0.08	0.16	Average
2	0.159	46.84	65.52	-18.68	37.01	9.59	0.08	0.16	QP
3	0.204	29.59	53.45	-23.86	19.74	9.59	0.08	0.18	Average
4	0.204	39.98	63.45	-23.47	30.13	9.59	0.08	0.18	QP
5*	0.322	31.75	49.66	-17.91	21.90	9.58	0.08	0.19	Average
6	0.322	36.43	59.66	-23.23	26.58	9.58	0.08	0.19	QP
7	1.043	18.12	46.00	-27.88	8.09	9.59	0.16	0.28	Average
8	1.043	25.32	56.00	-30.68	15.29	9.59	0.16	0.28	QP
9	5.564	20.11	50.00	-29.89	9.86	9.62	0.29	0.34	Average
10	5.564	24.88	60.00	-35.12	14.63	9.62	0.29	0.34	QP
11	26.418	22.91	50.00	-27.09	11.91	9.65	0.72	0.63	Average
12	26.418	27.75	60.00	-32.25	16.75	9.65	0.72	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).