

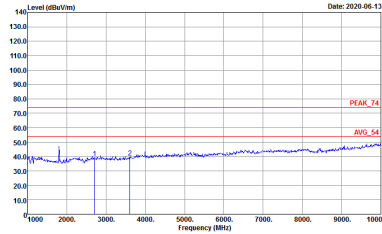
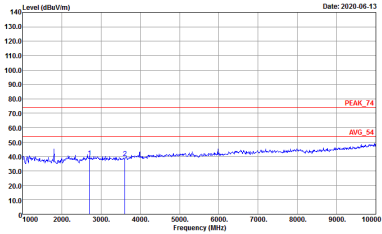


Appendix D. Radiated Spurious Emission Plots

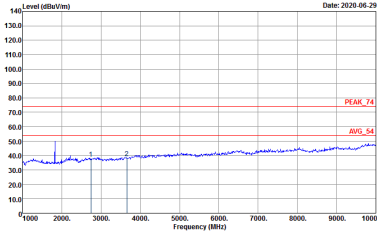
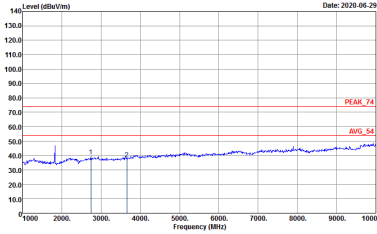
Test Engineer :	Cookie Ku, Fu Chen, and Troye Hsieh	Temperature :	19.1~26.3°C
		Relative Humidity :	50.2~69.1%

<LoRa FHSS>

LoRa (Harmonic @ 3m)

LoRa	902~928MHz Harmonic @ 3m	
ANT	LoRa CH01 902.2MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	 Site : 03CH11-4FY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01



LoRa	902~928MHz Harmonic @ 3m	
ANT	LoRa CH65 915MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01 Setting : 22

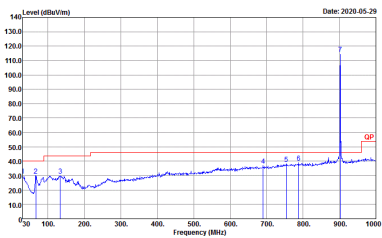
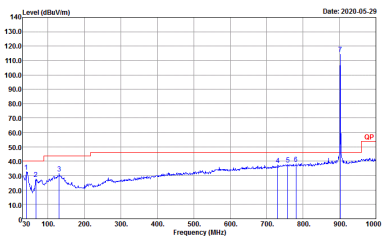


LoRa	902~928MHz Harmonic @ 3m	
ANT	LoRa CH129 927.8MHz	
4	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2020-06-13 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	Level (dBuV/m) Date: 2020-06-13 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

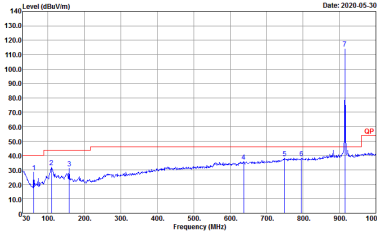
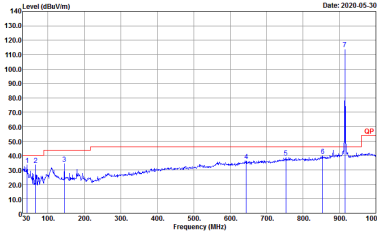


Emission below 1GHz

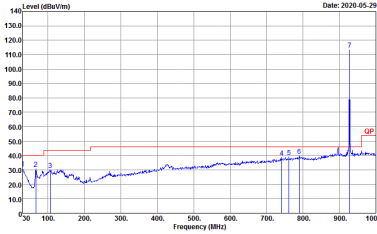
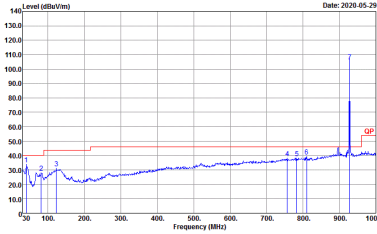
LoRa (LF)

LoRa	902~928MHz	
ANT	LoRa CH01 902.2MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22 +100dB	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : 22 +100dB



LoRa	902~928MHz	
ANT	LoRa CH65 915MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB

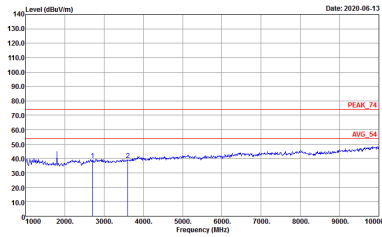
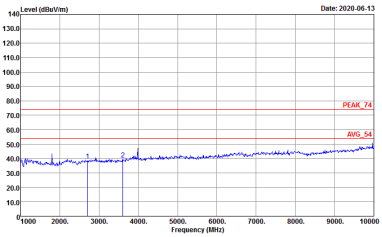


LoRa	902~928MHz	
ANT	LoRa CH129 927.8MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB

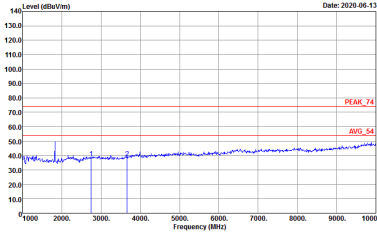
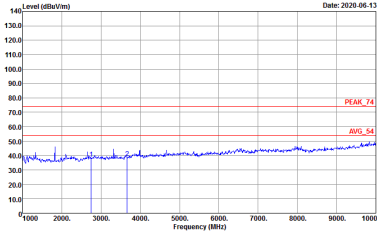


<FSK 50Kbps FHSS>

FSK (Harmonic @ 3m)

FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH01 902.2MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 012305-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 012305-01

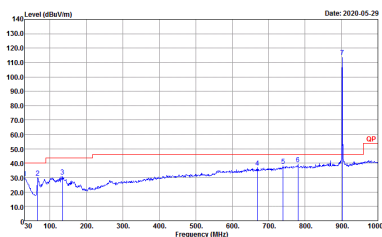
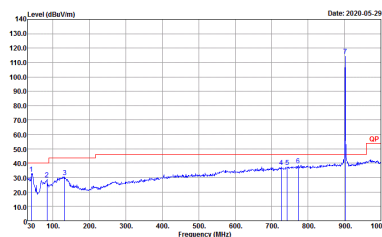


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH65 915MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

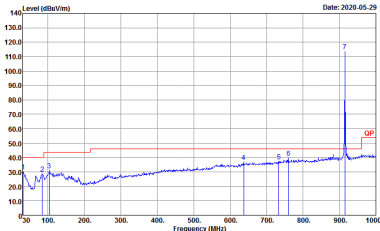
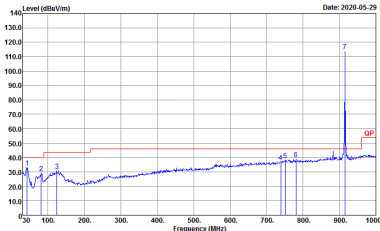


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH129 927.8MHz	
4	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2020-06-13 Frequency (kHz) Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	Level (dBuV/m) Date: 2020-06-13 Frequency (kHz) Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

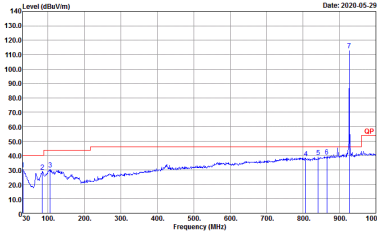
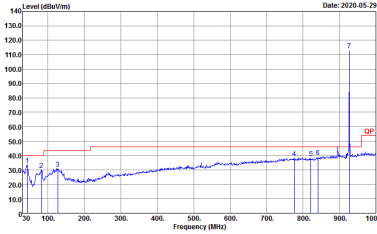
Emission below 1GHz
FSK (LF)

FSK	902~928MHz	
ANT	FSK CH01 902.2MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22 : +100dB	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : 22 : +100dB



FSK	902~928MHz	
ANT	FSK CH65 915MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB

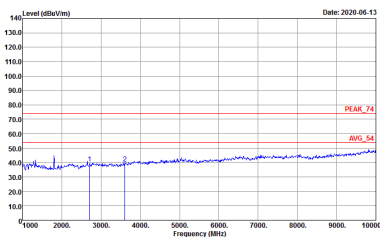
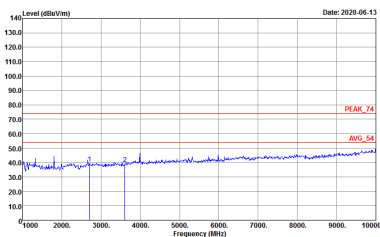


FSK	902~928MHz	
ANT	FSK CH129 927.8MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB

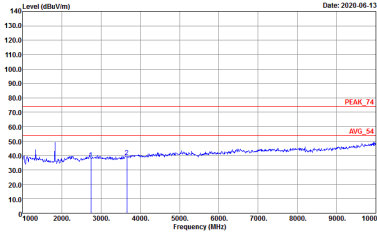
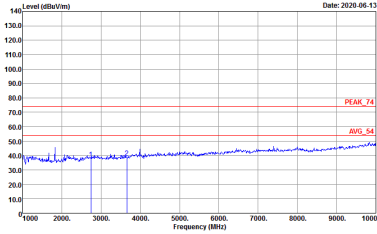


<FSK 150Kbps FHSS>

FSK (Harmonic @ 3m)

FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH01 902.4MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

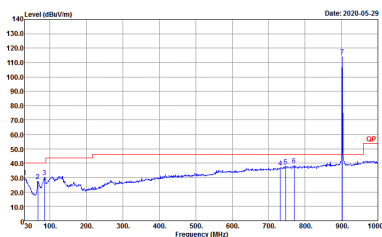
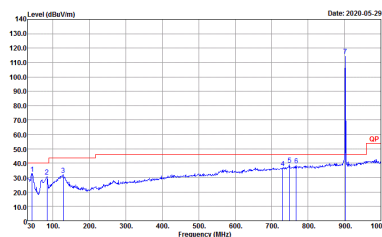


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH32 914.8MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

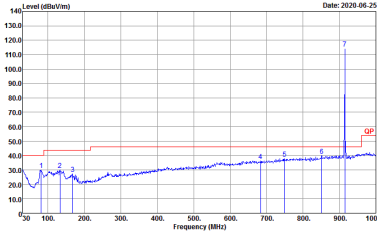
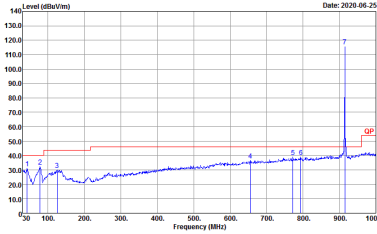


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH64 927.6MHz	
4	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2020-06-13 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01	Level (dBuV/m) Date: 2020-06-13 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01

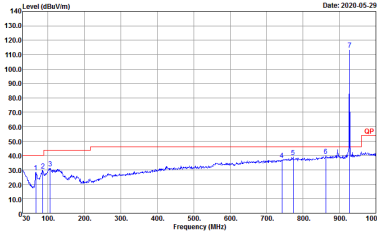
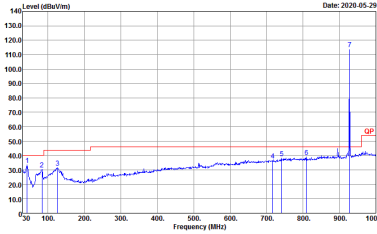
Emission below 1GHz
FSK (LF)

FSK	902~928MHz	
ANT	FSK CH01 902.4MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22 +100dB	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : 22 +100dB



FSK	902~928MHz	
ANT	FSK CH32 914.8MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB



FSK	902~928MHz	
ANT	FSK CH64 927.6MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB

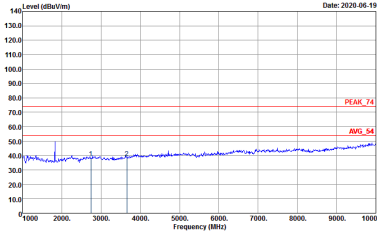
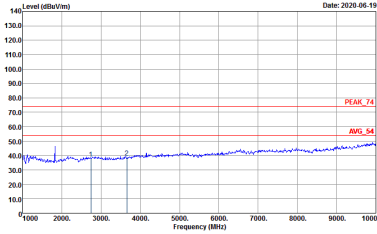


<FSK 250Kbps FHSS>

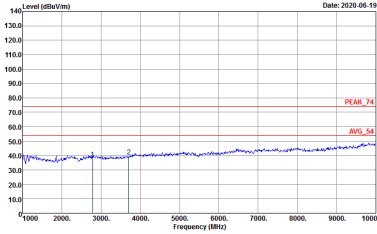
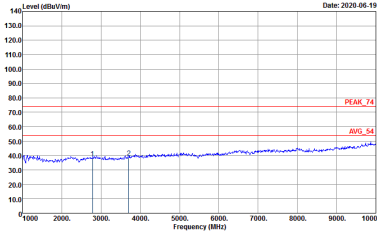
FSK (Harmonic @ 3m)

FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH01 902.5MHz	
4	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-06-19 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22	Level (dBuV/m) Date: 2020-06-19 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01 Setting : 22

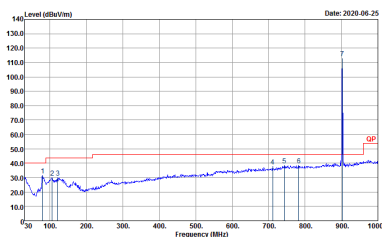
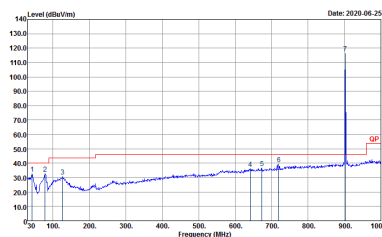


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH26 915MHz	
4	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01 Setting : 22

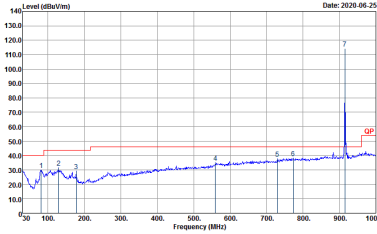
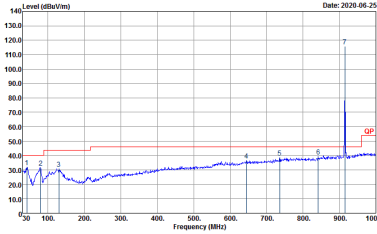


FSK	902~928MHz Harmonic @ 3m	
ANT	FSK CH51 927.5MHz	
4	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 012305-01 Setting : 22

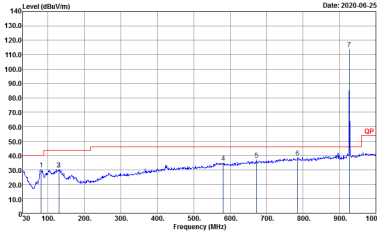
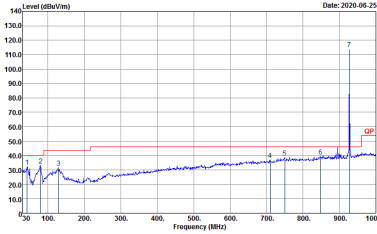
Emission below 1GHz
FSK (LF)

FSK	902~928MHz	
ANT	FSK CH01 902.5MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : 22 +100dB	 Site : 03CH11-HY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : 22 +100dB



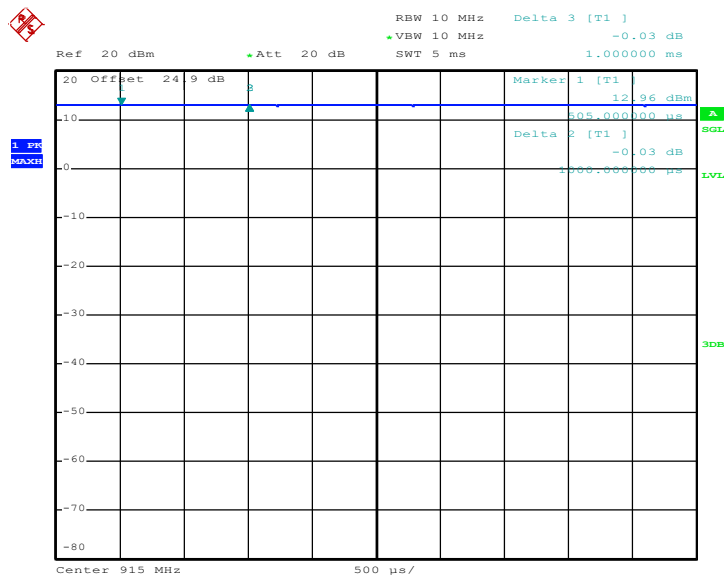
FSK	902~928MHz	
ANT	FSK CH26 915MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +100dB



FSK	902~928MHz	
ANT	FSK CH51 927.5MHz LF	
4	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB	 Site : 03CH11-HY Condition : QP 3m BE-LO6 6111D-LF_ETC VERTICAL Detector : Peak Project : 012305-01 Setting : Z2 Setting : +10dB

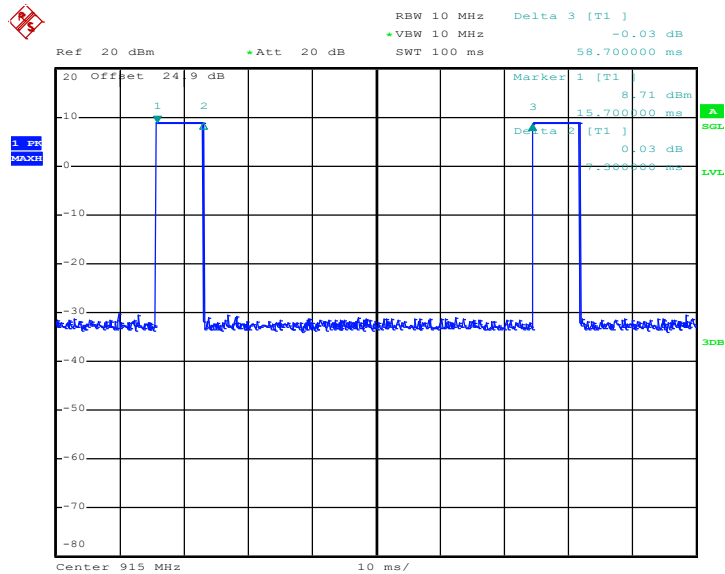


Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
4	LoRa FHSS	100.00	-	-	10Hz	0.00
4	FSK 50Kbps FHSS	12.44	7300.00	0.14	1 kHz	9.05
4	FSK 150Kbps FHSS	4.53	2450.00	0.41	1 kHz	13.44
4	FSK 250Kbps FHSS	2.59	1365.00	0.73	1 kHz	15.87



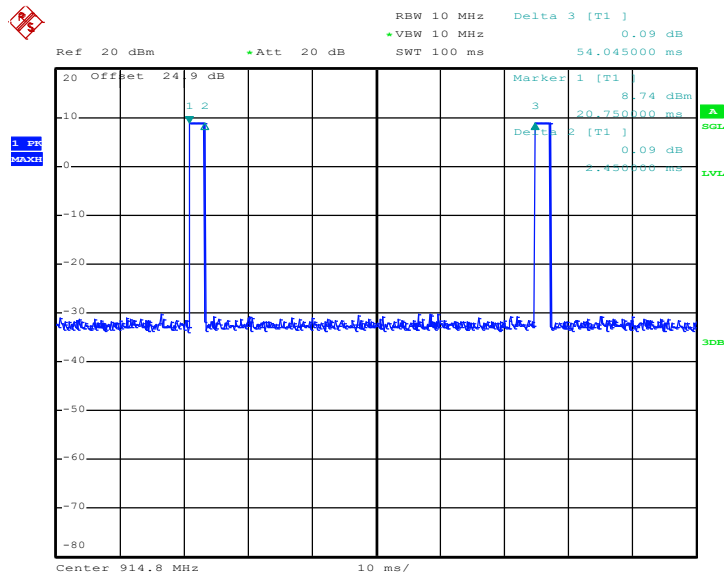
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FSK 50Kbps FHSS



Date: 20.MAY.2020 14:48:29

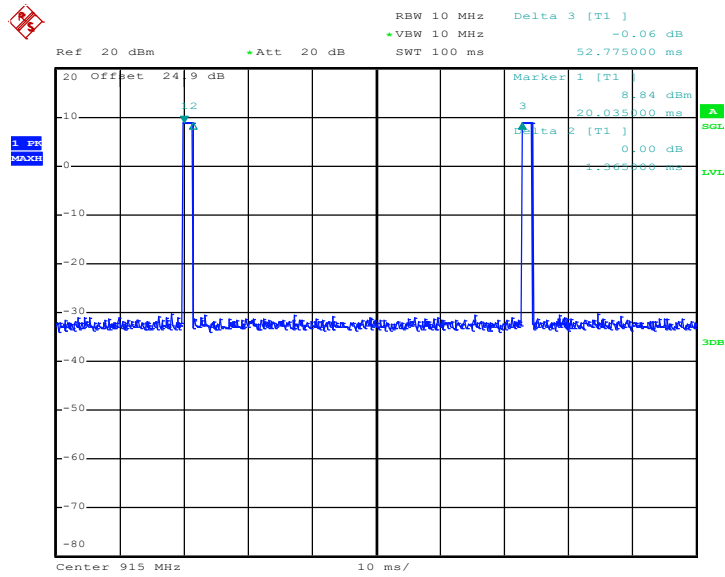
FSK 150Kbps FHSS



Date: 20.MAY.2020 16:22:01



FSK 250Kbps FHSS



Date: 20.MAY.2020 16:53:49

—THE END—