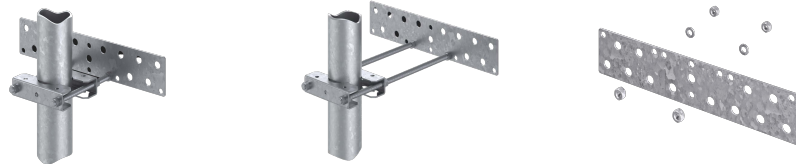


Part number(s): See table below

Description: Low PIM cable support mount designed to secure multiple ConcealFab Hybrid snap-in cable clamps to 2.375 to 4.5-inch OD galvanized steel pipe. Mount utilizes galvanized steel saddle brackets clamped to the pipe using 2x 0.5-inch threaded rods. A galvanized steel plate with multiple holes for securing snap-ins is attached to the threaded rods. Assembly torque = 40 FT-LB on all fasteners.

Part number 900352-01 was tested. Due to similarity, the following part numbers are certified.



Description	Pole Mount Kit	Extended Range Pole Mount Kit	Extra Bar Kit
13- Position	900352-01	900352-02	900354
22 - Position	900353-01	900353-02	900355

Test conditions:

Tested in accordance with proposed IEC 62037-8 specification under the following test conditions:

- Object type: Non-flat
- Test type: Near Field
- Dynamic stimulus: Tap DUT with fiberglass rod while PIM testing
- Test power: 2x 43 dBm test tones
- IM product measured IM3
- Pass/Fail level: -97 dBm (-140 dBc)
- Frequency bands: 700 MHz band (F1 = 728 MHz, F2 = 754 MHz, IM3 = 780 MHz)  
1900 MHz band (F1 = 1930 MHz, F2 = 1990 MHz, IM3 = 1870 MHz)

Test distance calculations:

5.1.4.1.2	Lowest test frequency	(MHz)	<b>728</b>	<b>1930</b>		
	Wavelength	(in)	16.2	6.1		
5.1.1	<b>Galtronics D5778i</b>	D (in)	13.8	13.8		
	<b>Antenna Gain (dBi)</b>	<b>10 dBi ± 3 dB</b>	<b>8.8 dBi</b>	<b>8.6 dBi</b>		
	<b>Antenna beamwidth (deg)</b>		<b>60</b>	<b>60</b>		
			<b>5.1.4.2</b>	<b>5.1.4.2</b>		
		Tolerance	Distance (in)	Test zone width (in)	Distance (in)	Test zone width (in)
5.1.4.1.1	FarField min (in)	0.25	19.4	22.4	60.8	70.2
	FarField nom (in)		23.5	27.1	62.3	71.9
	FarField max (in)	0.25	27.5	31.8	63.8	73.7
5.1.4.1.2	NearField min (in)	0.1	14.6	30.6	5.5	20.2
	NearField nom (in)		16.2	32.5	6.1	20.9
	NearField max (in)	0.1	17.8	34.4	6.7	21.6

Test Results Summary:

		IM3 @ 2x +43 dBm Test Power (dBm)					
Specification (dBm)	-97	Port / Band	Residual PIM	Front	R-Side	L-Side	Back
Result	PASS	M45 / 700	-115.1	-116.1	-114.4	-111.3	-121.1
		P45 / 700	-115.1	-127.9	-115.5	-117.1	-114.5
		M45 / 1900	-111.8	-110.0	-107.4	-109.8	-111.9
		P45 / 1900	-122.1	-110.2	-106.9	-120.0	-114.3
		M45 Return Loss Verification (dB)					
		Frequency	Front	R-Side	L-Side	Back	
Specification (dB)	10	F1	728 MHz	15.6	17.6	15.9	17.0
Result	PASS	F2	754 MHz	17.1	17.0	17.8	19.3
		IM3	780 MHz	17.1	16.0	17.0	13.6
		IM3	1870 MHz	25.3	29.9	24.3	21.2
		F2	1930 MHz	18.9	24.0	28.6	29.2
		F1	1990 MHz	28.7	28.0	28.4	23.4
		P45 Return Loss Verification (dB)					
		Frequency	Front	R-Side	L-Side	Back	
Specification (dB)	10	F1	728 MHz	22.4	18.9	19.2	20.0
Result	PASS	F2	754 MHz	25.4	17.6	18.5	16.9
		IM3	780 MHz	19.4	20.6	20.6	16.4
		IM3	1870 MHz	20.7	28.6	24.4	30.0
		F2	1930 MHz	13.9	16.2	15.1	18.1
		F1	1990 MHz	21.2	23.1	21.7	23.6

## PIM Test Data: 700 MHz

## | SITE DETAILS

Site	Sector	Feeder	Operator
900352.01	NA	NA	T BELL

## | TEST PARAMETERS

Tone 1 Frequency	Tone 2 Frequency	IM3 Frequency
728.0 MHz	754.0 MHz	780.0 MHz

## | TEST RESULTS

Test Point	Time	P1 P2	PIM Threshold	PIM	Peak PIM	Result
700 RES P45	2019-01-23 21:48	43.0 dBm 43.0 dBm	-100.0 dBm	-115.3 dBm	-115.1 dBm	Pass
700 FRONT P45	2019-01-23 21:50	43.0 dBm 43.0 dBm	-100.0 dBm	-127.9 dBm	-127.9 dBm	Pass
700 R SIDE P45	2019-01-23 21:54	43.0 dBm 43.0 dBm	-100.0 dBm	-115.7 dBm	-115.5 dBm	Pass
700 L SIDE P45	2019-01-23 21:55	43.0 dBm 43.0 dBm	-100.0 dBm	-117.6 dBm	-117.1 dBm	Pass
700 BACK P45	2019-01-23 21:57	43.0 dBm 43.0 dBm	-100.0 dBm	-114.7 dBm	-114.5 dBm	Pass
700 RES M45	2019-01-23 22:00	43.0 dBm 43.0 dBm	-100.0 dBm	-117.1 dBm	-115.1 dBm	Pass
700 FRONT M45	2019-01-23 22:01	43.0 dBm 43.0 dBm	-100.0 dBm	-117.8 dBm	-116.1 dBm	Pass
700 R SIDE M45	2019-01-23 22:03	43.0 dBm 43.0 dBm	-100.0 dBm	-114.9 dBm	-114.4 dBm	Pass
700 L SIDE M45	2019-01-23 22:05	43.0 dBm 43.0 dBm	-100.0 dBm	-112.3 dBm	-111.3 dBm	Pass
700 BACK M45	2019-01-23 22:06	43.0 dBm 43.0 dBm	-100.0 dBm	-124.6 dBm	-121.1 dBm	Pass

Model	Serial Number	Calibration Due	SW/FW Versions
iQA-0700HC	TX2132100208	04 May 2019	2.10.0/2.2.0

## PIM Test Data: 1900 MHz

## Site Test Report

### SITE DETAILS

Site	Sector	Feeder	Operator
900352.1	NA	NA	T BELL

### TEST PARAMETERS

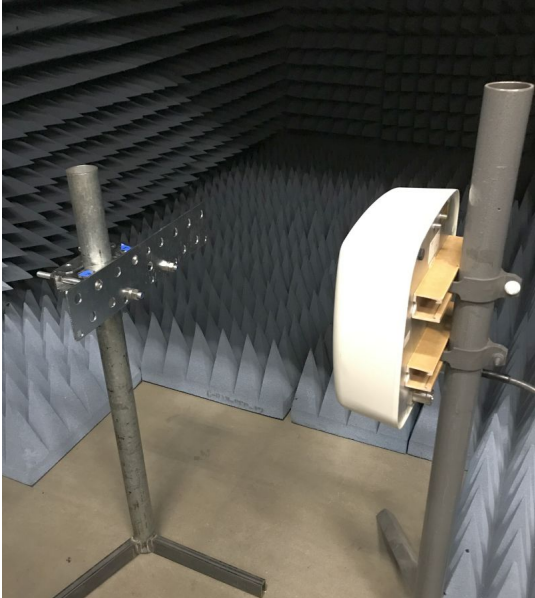
Tone 1 Frequency	Tone 2 Frequency	IM3 Frequency
1930.0 MHz	1990.0 MHz	1870.0 MHz

### TEST RESULTS

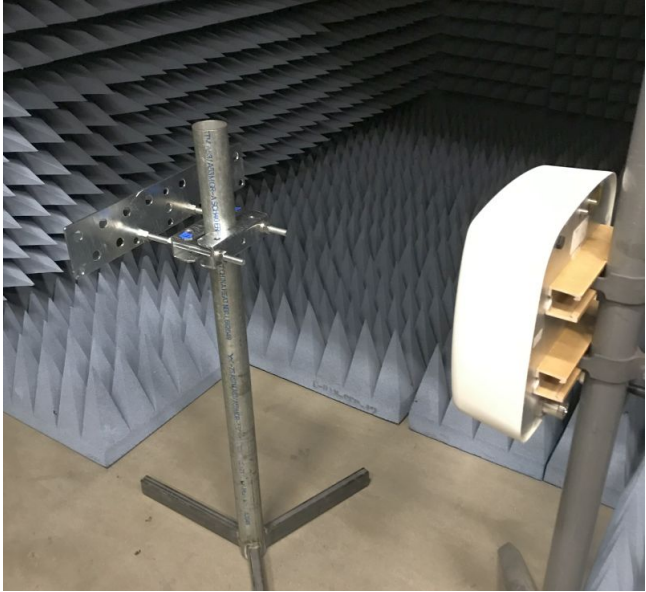
Test Point	Time	P1 P2	PIM Threshold	PIM	Peak PIM	Result
1900 RES M45	2019-01-25 04:55	43.0 dBm 43.0 dBm	-100.0 dBm	-112.2 dBm	-111.8 dBm	Pass
1900 FRONT M45	2019-01-25 04:57	43.0 dBm 43.0 dBm	-100.0 dBm	-110.2 dBm	-110.0 dBm	Pass
1900 R SIDE M45	2019-01-25 04:58	43.0 dBm 43.0 dBm	-100.0 dBm	-109.8 dBm	-107.4 dBm	Pass
1900 L SIDE M45	2019-01-25 05:00	43.0 dBm 43.0 dBm	-100.0 dBm	-113.6 dBm	-109.8 dBm	Pass
1900 BACK M45	2019-01-25 05:02	43.0 dBm 43.0 dBm	-100.0 dBm	-112.7 dBm	-111.9 dBm	Pass
1900 RES P45	2019-01-25 05:04	43.0 dBm 43.0 dBm	-100.0 dBm	-122.7 dBm	-122.1 dBm	Pass
1900 FRONT P45	2019-01-25 05:05	43.0 dBm 43.0 dBm	-100.0 dBm	-120.3 dBm	-110.2 dBm	Pass
1900 R SIDE P45	2019-01-25 05:07	43.0 dBm 43.0 dBm	-100.0 dBm	-112.4 dBm	-106.9 dBm	Pass
1900 L SIDE P45	2019-01-25 05:09	43.0 dBm 43.0 dBm	-100.0 dBm	-124.2 dBm	-120.0 dBm	Pass
1900 BACK P45	2019-01-25 05:10	43.0 dBm 43.0 dBm	-100.0 dBm	-117.4 dBm	-114.3 dBm	Pass

Model	Serial Number	Calibration Due	SW/FW Versions
iQA-1921B	TX2112700053	24 May 2019	2.10.0/2.2.0

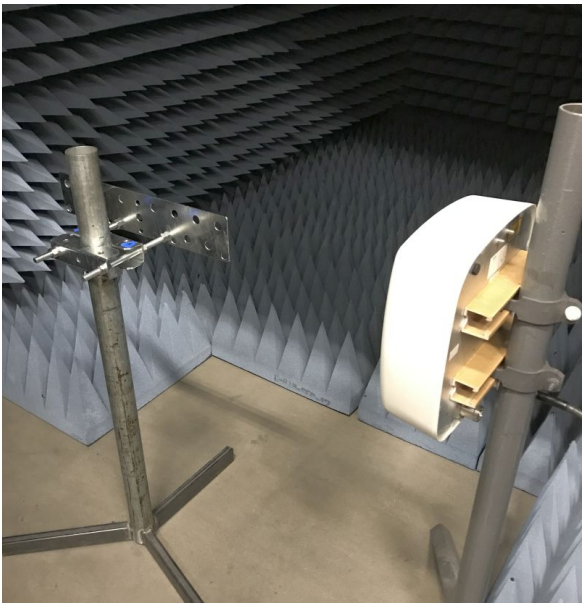
Test set-up photos 700 MHz:



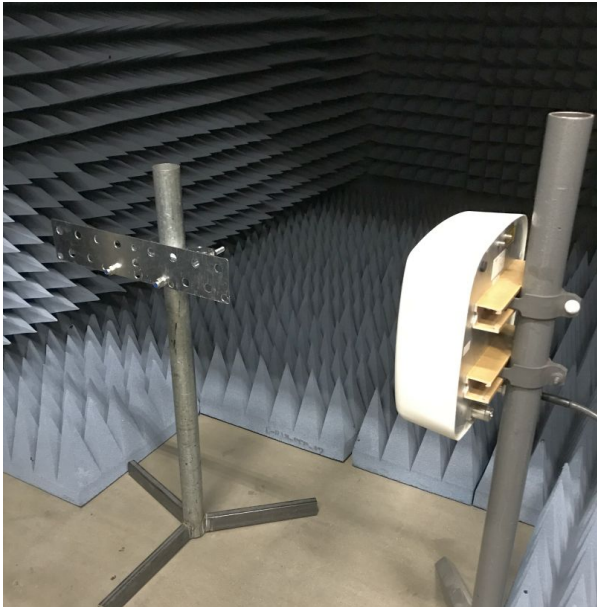
FRONT



BACK

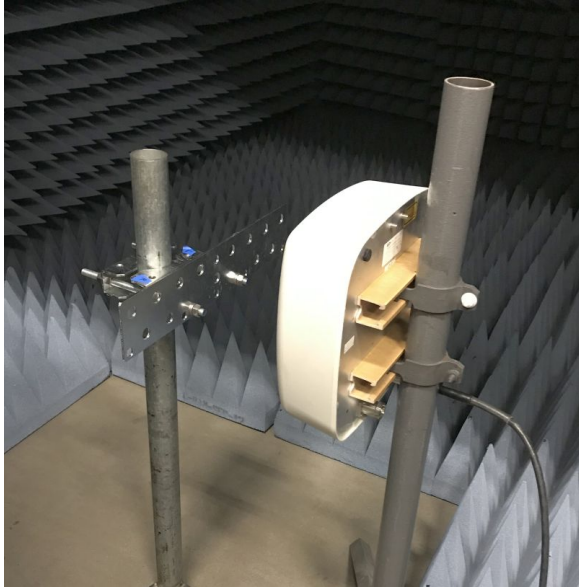


RIGHT SIDE

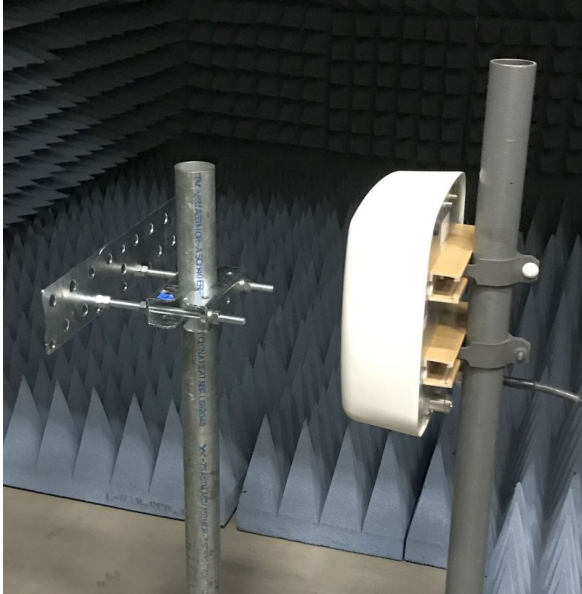


LEFT SIDE

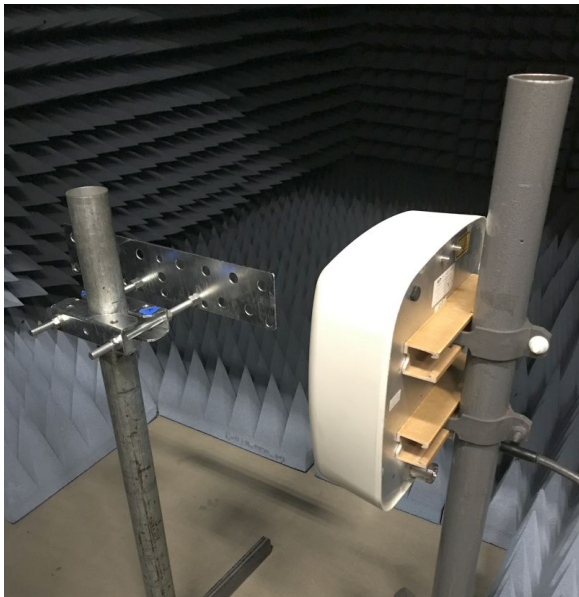
Test set-up photos 1900 MHz:



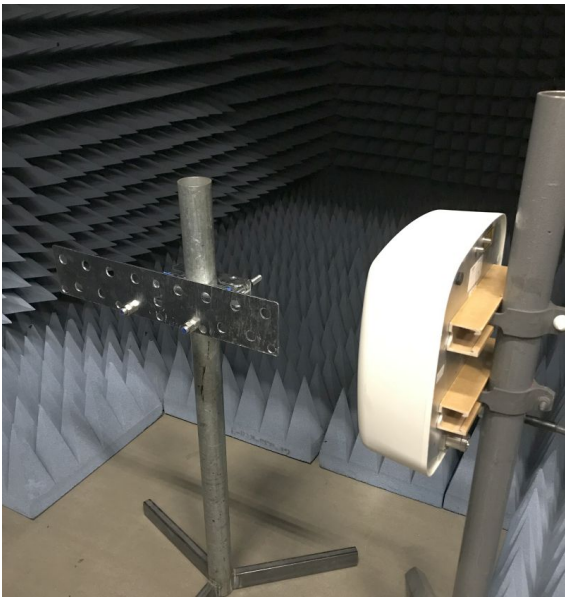
FRONT



BACK



RIGHT SIDE



LEFT SIDE