

**ELECTRIC PRODUCTS CERTIFICATION INDEPENDENT BODY - OICPE***ORGANISM INDEPENDENT PENTRU CERTIFICAREA PRODUSELOR ELECTRICE*

SOCIETATE CU RĂSPUNDERE LIMITATĂ

SPLAIUL UNIRII Nr. 313, CORP M-1, D3-14, 030138, BUCUREȘTI, ROMÂNIA,

J40/3946/2009; Tel. : +40 21 589 33 05 Tel/Fax : +40 21 346 49 35; <http://www.oicpe.ro>**LICPE**acreditat pentru
ÎNCERCARESR EN ISO/CEI 17025:2005
CERTIFICAT DE ACREDITARE
LI 911**LABORATORUL DE ÎNCERCĂRI PENTRU CERTIFICAREA
PRODUSELOR ELECTRICE***Testing Laboratory for Electrical Products Certification***RAPORT DE ÎNCERCĂRI****TEST REPORT****Nr. 118 / 15.04.2019****Pag. 1 / 37**

Exemplar nr. 1 din 3

ÎNCERCAREA SOLICITATĂ

Required Test

Încercări de conformitate cu:

SR EN 55015:2014+A1:2015

SR EN 61000-3-2:2015

SR EN 61000-3-3:2014

SR EN 61547:2010

PRODUSUL

Equipment

**CORP DE ILUMINAT DE EXTERIOR CU LED-uri
tip EVOCity [45-75]
cod RS 82023-009****PRODUCĂTOR**

Manufacturer

ELECTROMAGNETICA SA

Calea Rahovei nr. 266-268, sector 5, Bucuresti

CLIENT (nume, adresă, cerere)

Customer (name, address, order)

ELECTROMAGNETICA SA

Calea Rahovei nr. 266-268, sector 5, Bucuresti

Cerere nr 597/25.03.2019

MANAGER LABORATOR

Laboratory Manager

Ing. Niculae LICSANDRU**DIRECTOR TEHNIC OICPE**

OICPE Technical Director

Ing. Dragos ROSMETENIUC

Rezultatele încercărilor se referă numai la produsele încercate.

Test results refers only to tested products.

Acest document poate fi reprodus numai în întregime.

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**DATELE TEHNICE ALE PRODUSULUI****Corp de iluminat de exterior cu LED-uri tip EVOCity[45-75] cod RS 82023-009**

Produsele încercate, contin tipurile de surse, dupa cum urmeaza:

1. EVOCity [45] cod RS 82023-009 cu sursă TRIDONIC (tip LCO 60W 200-1050mA 100V one4all NFC EXC3)
2. EVOCity [60] cod RS 82023-009 cu sursă OSRAM (tip OT 75/170...240/1A0 4DIMLT2 G2 CE)
3. EVOCity [45] cod RS 82023-009 cu sursă OSRAM (tip OT 60/170-240/1A0 4DIMLT2 E)
4. EVOCity [60] cod RS 82023-009 cu sursă TRIDONIC (tip LCO 60W 200-1050mA 100V one4all NF C EXC3)
5. EVOCity [60] cod RS 82023-009 cu sursă TRIDONIC (tip LCO 90/200-1050/165 o4a NF C EXC3)
6. EVOCity [60] cod RS 82023-009 cu sursă OSRAM (tip OT 60/170-240/1A0 4DIMLT2 E)
7. EVOCity [75] cod RS 82023-009 cu sursă OSRAM (tip OT 75/170...240/1A0 4DIMLT2 G2 CE)
8. EVOCity [75] cod RS 82023-009 cu sursă TRIDONIC (tip LCO 90/200-1050/165 o4a NF C EXC3)

Tensiunea nominală de alimentare	: 220 – 240 V _{ca}	: 220 – 240 V _{ca}	: 220 – 240 V _{ca}	: 220 – 240 V _{ca}
Frecvența nominală	: 50 Hz	: 50 Hz	: 50 Hz	: 50 Hz
Sursa de alimentare	LCO 60/200-1050/ 100 o4a NF C EXC3 (producător Tridonic)	OT 60/170-240/1A0 4DIMLT2 E (producător OSRAM (Optotronic®))	LCO 90/200-1050/ 165 o4a NF C EXC3 (producător Tridonic)	OT 75/170-240/1A0 4DIMLT2 G2 CE (producător OSRAM (Optotronic®))
Putere nominală (reglabilă la producător)	45 W – 60 W	45 W – 60 W	60 W – 75 W	60 W – 75 W
Tip sursă de lumină	: modul LED (LED-uri nedemontabile) echipare versiunea 1 : LED-uri tip L150-xx70502400000 (seria LUXEON 5050, producător Philips Lumileds Lighting Company) echipare versiunea 2 : LED-uri tip JR5050AWT-00-0000-000H0BQ4xxE (seria JR5050, producător CREE Inc.)			
Configurația sursei de lumină	: modul LED (cod RP 334551) cu 36 LED-uri			
Lentile	: 9 buc. (câte o lentilă pentru 4 LED-uri) tip C12362_STRADA-2X2-DWC (material – PMMA) (producător LEDil Oy)			
Dispersor	: sticlă securizată			
Carcasă	: aluminiu turnat, cod DY2018-S (producător NINGBO EASTY ELECTRONIC Co. Ltd.)			
Grad de protecție la impact	: IK 09			
Grad de protecție asigurat de carcasă	: IP 66			
Clasă de protecție	: I			
Factorul de putere	: > 0,95			
Interval de temperatură	: - 40 °C ... + 45 °C			
Dimensiuni	: [608 x 234 x 122] mm			
Masa	: max. 5,2 kg			
Înălțimea de instalare	: max. 15 m			
Suprafața expusă forței vântului	: 0,13 m ²			
Forța de strângere a șuruburilor pentru fixarea pe țevă	: 10 Nm			
Domeniu de utilizare	: iluminatul șoselelor, străzilor, aleilor și pentru alte locuri de interes public			

Seria : 335/98.17 335/98.19

Felul produsului : serie

Data primirii produsului : 27.03.2019

Perioada încercărilor : 27.03.2019 - 15.04.2019

Modul de prelevare: : conform procedurii PG-11, OICPE

Număr de variante încercate : 8

Responsabil de încercări

sing Alexandru STANESCU

1. Măsurarea tensiunii perturbatoare la borne de alimentare, de sarcină, de comandă

Conform SR EN 55015:2014+A1:2015, cap. 4.3.1 și tab. 2a)

Incertitudine calculată: 2,4 dB

Incertitudine laborator: 6,0 dB

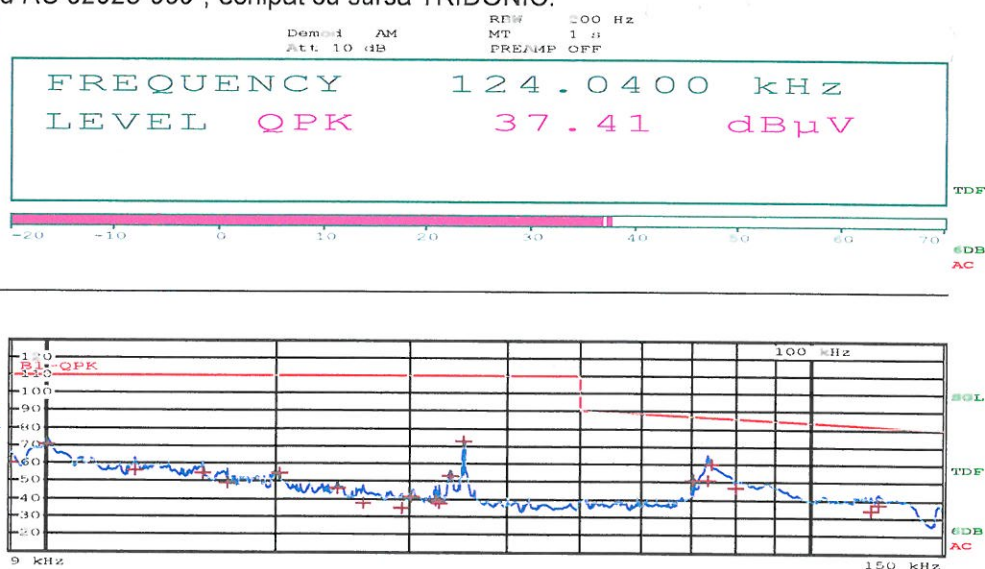
Incertitudine CISPR 16: 3,6 dB

Schema bloc utilizată la măsurarea tensiunii perturbatoare la bornele de alimentare la rețea este din standardul SR EN 55015:2014+A1:2015, cap. 8, pct. 8.1.1, fig. 5.

Aparatele utilizate sunt cele din Anexa la prezentul RI.

1. Banda 9 kHz - 150 kHz,

1. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [45], cod RS 82023-009", echipat cu sursa TRIDONIC.



Date: 2.APR.2019 11:13:43

Figura 1.1

EDIP PEAK LIST (Final Measurement Results)			
Trace1:	BI-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	9 kHz	59.94	-50.05
1 Quasi Peak	10.04 kHz	70.74	-39.25
1 Quasi Peak	13.08 kHz	55.74	-54.25
1 Quasi Peak	15.96 kHz	54.42	-55.57
1 Quasi Peak	17.24 kHz	48.69	-61.30
1 Quasi Peak	20.12 kHz	54.21	-55.78
1 Quasi Peak	24.04 kHz	46.03	-63.96
1 Quasi Peak	26.04 kHz	38.06	-71.93
1 Quasi Peak	29.32 kHz	35.02	-74.97
1 Quasi Peak	30.12 kHz	41.52	-68.47
1 Quasi Peak	32.36 kHz	39.42	-70.57
1 Quasi Peak	32.68 kHz	37.82	-72.17
1 Quasi Peak	33.8 kHz	53.41	-56.58
1 Quasi Peak	35.32 kHz	72.53	-37.46
1 Quasi Peak	70.6 kHz	51.32	-35.53
1 Quasi Peak	73.64 kHz	51.04	-35.42
1 Quasi Peak	74.6 kHz	60.09	-26.26
1 Quasi Peak	80.28 kHz	46.57	-39.11
1 Quasi Peak	120.84 kHz	34.36	-47.60
1 Quasi Peak	124.04 kHz	37.48	-44.24

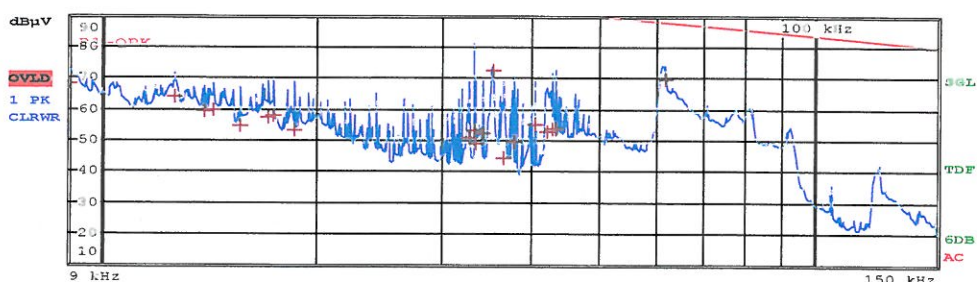
Date: 2.APR.2019 11:13:09

Tabel 1.1

2.Rezultate masuratori pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", cu sursa OSRAM.



Demod A1
Att 10 dB
RBW 200 Hz
MT 1 s
PREAMP OFF



Date: 5.APR.2019 09:03:00

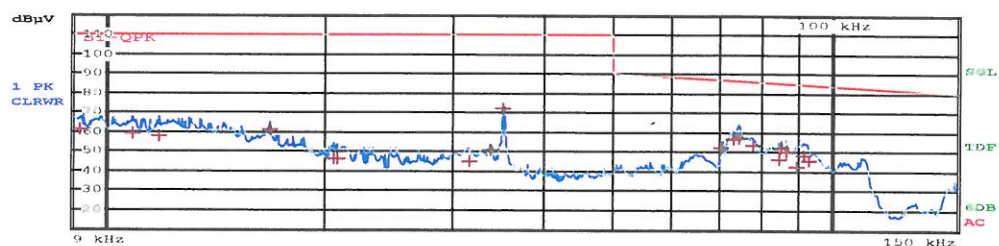
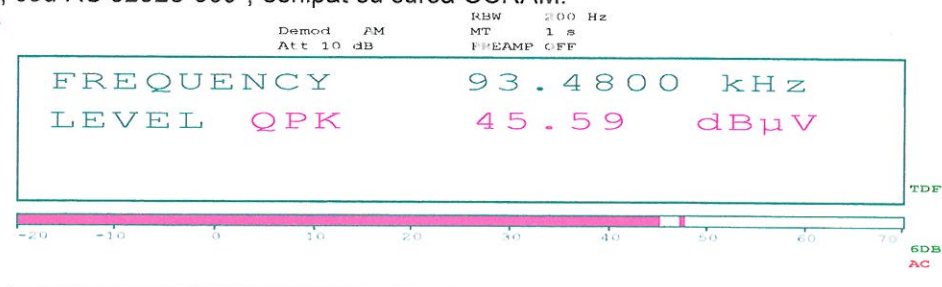
Figura 1.2

PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT d
1 Quasi Peak	9 kHz	68.33	-41.66
1 Quasi Peak	12.6 kHz	64.10	-45.90
1 Quasi Peak	13.88 kHz	59.31	-50.68
1 Quasi Peak	14.28 kHz	59.97	-50.02
1 Quasi Peak	15.56 kHz	54.69	-55.30
1 Quasi Peak	17 kHz	57.60	-52.39
1 Quasi Peak	17.32 kHz	57.78	-52.21
1 Quasi Peak	18.52 kHz	53.33	-56.66
1 Quasi Peak	32.76 kHz	51.11	-58.89
1 Quasi Peak	33.32 kHz	53.09	-56.90
1 Quasi Peak	33.56 kHz	49.14	-60.85
1 Quasi Peak	34.36 kHz	52.13	-57.86
1 Quasi Peak	35.4 kHz	72.62	-37.37
1 Quasi Peak	36.68 kHz	44.32	-65.67
1 Quasi Peak	37.96 kHz	49.62	-60.37
1 Quasi Peak	40.68 kHz	55.34	-54.65
1 Quasi Peak	42.2 kHz	52.74	-57.25
1 Quasi Peak	43 kHz	53.90	-56.09
1 Quasi Peak	43.4 kHz	53.54	-56.45
1 Quasi Peak	61.88 kHz	69.47	-18.58

Date: 5.APR.2019 09:02:43

Tabel 1.2

3. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [45], cod RS 82023-009", echipat cu sursa OSRAM.



Date: 8.APR.2019 11:11:46

Figura 1.3

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	9.24 kHz	60.85	-49.14
1 Quasi Peak	10.84 kHz	59.29	-50.70
1 Quasi Peak	11.8 kHz	57.87	-52.12
1 Quasi Peak	16.76 kHz	60.96	-49.03
1 Quasi Peak	20.52 kHz	46.52	-63.47
1 Quasi Peak	20.76 kHz	46.06	-63.93
1 Quasi Peak	31.64 kHz	44.95	-65.04
1 Quasi Peak	33.96 kHz	50.97	-59.02
1 Quasi Peak	35.32 kHz	71.92	-38.07
1 Quasi Peak	70.68 kHz	52.24	-34.60
1 Quasi Peak	73.16 kHz	56.35	-30.18
1 Quasi Peak	74.76 kHz	57.54	-28.79
1 Quasi Peak	78.04 kHz	53.66	-32.28
1 Quasi Peak	84.76 kHz	46.35	-38.83
1 Quasi Peak	85.4 kHz	52.03	-33.09
1 Quasi Peak	86.76 kHz	50.50	-34.47
1 Quasi Peak	89.96 kHz	42.69	-41.95
1 Quasi Peak	91.8 kHz	48.18	-36.28
1 Quasi Peak	93.24 kHz	45.86	-38.46
1 Quasi Peak	93.48 kHz	45.58	-38.72

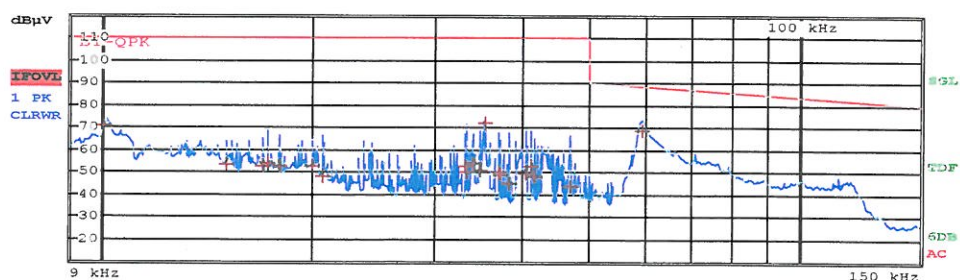
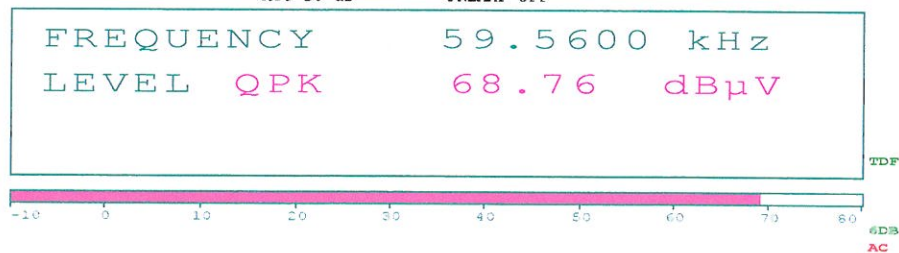
Date: 8.APR.2019 11:11:39

Tabel 1.3

4. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM RBW 200 Hz
Att 10 dB MT 1 s
PREAMP OFF



Date: 8.APR.2019 10:22:22

Figura 1.4

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	10.12 kHz	70.77	-39.22
1 Quasi Peak	15 kHz	53.27	-56.72
1 Quasi Peak	16.92 kHz	52.76	-57.23
1 Quasi Peak	17.16 kHz	53.91	-56.08
1 Quasi Peak	17.88 kHz	52.75	-57.24
1 Quasi Peak	19.88 kHz	52.64	-57.35
1 Quasi Peak	20.6 kHz	48.52	-61.47
1 Quasi Peak	33.08 kHz	52.69	-57.30
1 Quasi Peak	33.4 kHz	49.93	-60.06
1 Quasi Peak	34.04 kHz	54.21	-55.78
1 Quasi Peak	34.92 kHz	50.81	-59.18
1 Quasi Peak	35.4 kHz	72.09	-37.90
1 Quasi Peak	37 kHz	50.41	-59.58
1 Quasi Peak	37.24 kHz	48.61	-61.38
1 Quasi Peak	38.44 kHz	44.84	-65.15
1 Quasi Peak	40.68 kHz	49.78	-60.21
1 Quasi Peak	41.24 kHz	52.52	-57.47
1 Quasi Peak	41.72 kHz	48.26	-61.73
1 Quasi Peak	46.92 kHz	43.56	-66.43
1 Quasi Peak	59.56 kHz	68.73	-19.66

Date: 8.APR.2019 10:22:14

Tabel 1.4

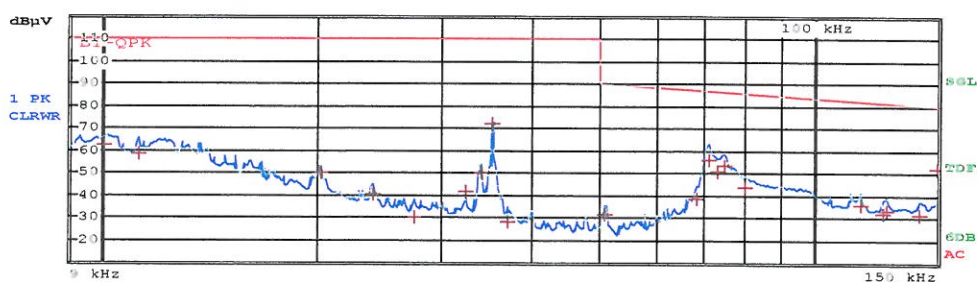
5. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM
Att 10 dB

RBW 9 kHz
MT 1 s
PREAMP OFF

FREQUENCY 150.0000 kHz
LEVEL QPK 52.50 dBμV



Date: 8.APR.2019 11:41:37

Figura 1.5

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	10.12 kHz	62.29	-47.70
1 Quasi Peak	11.24 kHz	58.64	-51.35
1 Quasi Peak	20.12 kHz	49.95	-60.04
1 Quasi Peak	23.88 kHz	40.46	-69.53
1 Quasi Peak	27.32 kHz	30.46	-79.53
1 Quasi Peak	32.36 kHz	42.09	-67.90
1 Quasi Peak	34.04 kHz	50.43	-59.56
1 Quasi Peak	35.32 kHz	72.07	-37.92
1 Quasi Peak	37.16 kHz	28.36	-81.64
1 Quasi Peak	50.64 kHz	31.76	-58.08
1 Quasi Peak	68.6 kHz	38.69	-48.42
1 Quasi Peak	71.4 kHz	55.72	-31.03
1 Quasi Peak	73.24 kHz	50.94	-35.58
1 Quasi Peak	75 kHz	53.34	-32.96
1 Quasi Peak	80.2 kHz	44.01	-41.68
1 Quasi Peak	117.32 kHz	26.34	-45.89
1 Quasi Peak	126.12 kHz	32.46	-49.11
1 Quasi Peak	127.16 kHz	33.55	-47.94
1 Quasi Peak	141.56 kHz	31.70	-48.81
1 Quasi Peak	150 kHz	52.41	-27.58

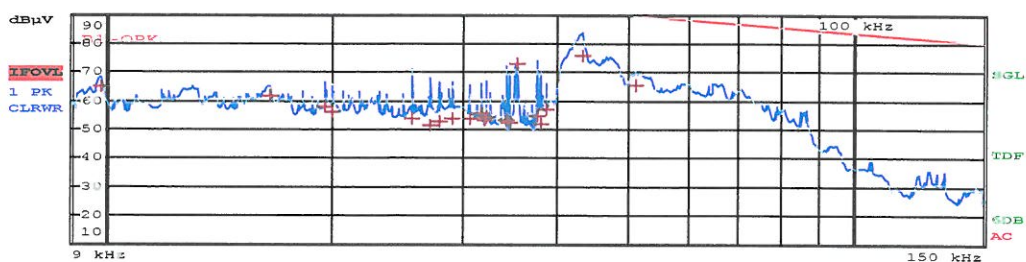
Date: 8.APR.2019 11:41:29

Tabel 1.5

6.Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa OSRAM.



Demod AM RBW 200 Hz
Att 10 dB MT 1 s
PREAMP OFF



Date: 5.APR.2019 09:07:15

Figura 1.6

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	9.8 kHz	64.78	-45.21
1 Quasi Peak	16.44 kHz	61.82	-48.17
1 Quasi Peak	19.48 kHz	58.14	-51.85
1 Quasi Peak	19.96 kHz	55.98	-54.01
1 Quasi Peak	25.48 kHz	53.76	-56.23
1 Quasi Peak	27 kHz	51.49	-58.50
1 Quasi Peak	27.88 kHz	53.00	-56.99
1 Quasi Peak	29 kHz	53.82	-56.17
1 Quasi Peak	30.6 kHz	53.57	-56.42
1 Quasi Peak	31.72 kHz	55.58	-54.41
1 Quasi Peak	32.12 kHz	53.16	-56.83
1 Quasi Peak	32.28 kHz	54.39	-55.60
1 Quasi Peak	34.36 kHz	53.06	-56.94
1 Quasi Peak	34.68 kHz	52.52	-57.47
1 Quasi Peak	35.4 kHz	72.73	-37.26
1 Quasi Peak	37.64 kHz	54.59	-55.40
1 Quasi Peak	38.04 kHz	52.06	-57.93
1 Quasi Peak	38.68 kHz	57.10	-52.89
1 Quasi Peak	43.4 kHz	75.91	-34.08
1 Quasi Peak	51.16 kHz	65.24	-24.54

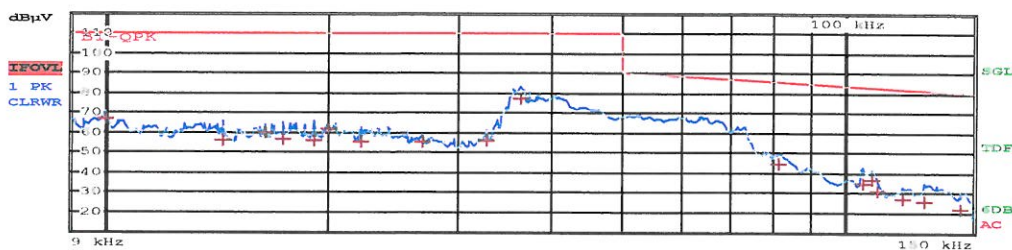
Date: 5.APR.2019 09:07:09

Tabel 1.6

7. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [75], cod RS 82023-009", echipat cu sursa OSRAM.



Demod AM Rbw 200 Hz
Att. 10 dB MT 1 s
PREAMP OFF



Date: 5.APR.2019 12:15:53

Figura 1.7

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	9.96 kHz	66.79	-43.21
1 Quasi Peak	14.36 kHz	55.71	-54.28
1 Quasi Peak	16.36 kHz	60.11	-49.88
1 Quasi Peak	17.32 kHz	56.83	-53.16
1 Quasi Peak	19 kHz	55.92	-54.07
1 Quasi Peak	19.86 kHz	61.66	-48.33
1 Quasi Peak	22.04 kHz	55.12	-54.88
1 Quasi Peak	26.76 kHz	55.22	-54.77
1 Quasi Peak	32.76 kHz	55.98	-54.01
1 Quasi Peak	36.44 kHz	77.03	-32.96
1 Quasi Peak	81.64 kHz	44.25	-41.28
1 Quasi Peak	106.12 kHz	34.88	-48.26
1 Quasi Peak	109.64 kHz	36.99	-45.85
1 Quasi Peak	111 kHz	30.99	-51.74
1 Quasi Peak	120.68 kHz	26.90	-55.07
1 Quasi Peak	128.84 kHz	25.86	-55.52
1 Quasi Peak	144.04 kHz	21.92	-58.44

Date: 8.APR.2019 12:15:41

Tabel 1.7

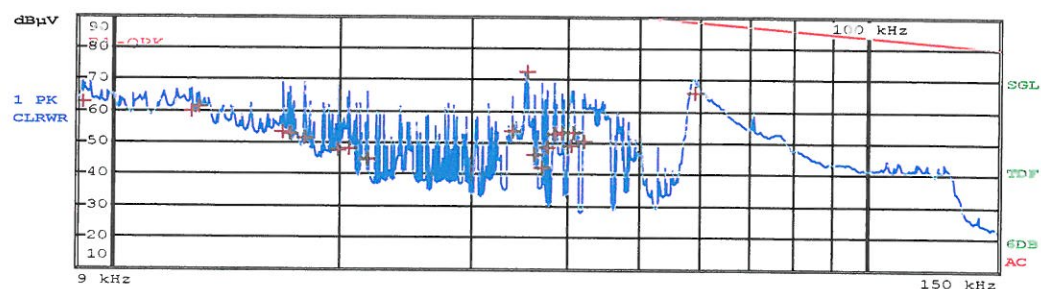
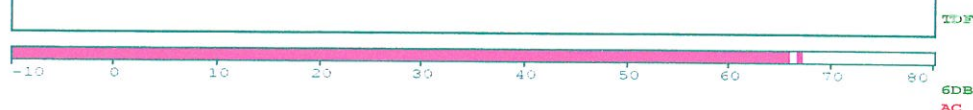
8. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [75], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM
Att 10 dB

RBW 200 Hz
MT 1 s
PREAMP OFF

FREQUENCY 59.0800 kHz
LEVEL QPK 65.98 dBμV



Date: 4.APR.2019 09:15:58

Figura 1.8

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B1-QPK		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	9.16 kHz	62.48	-47.51
1 Quasi Peak	12.68 kHz	59.73	-50.26
1 Quasi Peak	13 kHz	61.31	-48.68
1 Quasi Peak	16.68 kHz	53.49	-56.50
1 Quasi Peak	17.08 kHz	52.95	-57.05
1 Quasi Peak	17.88 kHz	51.57	-58.42
1 Quasi Peak	19.8 kHz	47.76	-62.23
1 Quasi Peak	20.52 kHz	48.15	-61.84
1 Quasi Peak	21.72 kHz	44.79	-65.20
1 Quasi Peak	33.88 kHz	53.57	-56.42
1 Quasi Peak	35.4 kHz	72.66	-37.34
1 Quasi Peak	36.2 kHz	46.04	-63.95
1 Quasi Peak	37 kHz	42.07	-67.92
1 Quasi Peak	37.8 kHz	48.42	-61.57
1 Quasi Peak	38.52 kHz	52.70	-57.29
1 Quasi Peak	39.56 kHz	53.12	-56.87
1 Quasi Peak	40.52 kHz	49.01	-60.98
1 Quasi Peak	40.84 kHz	53.39	-56.60
1 Quasi Peak	42.12 kHz	50.55	-59.44
1 Quasi Peak	59.08 kHz	65.81	-22.67

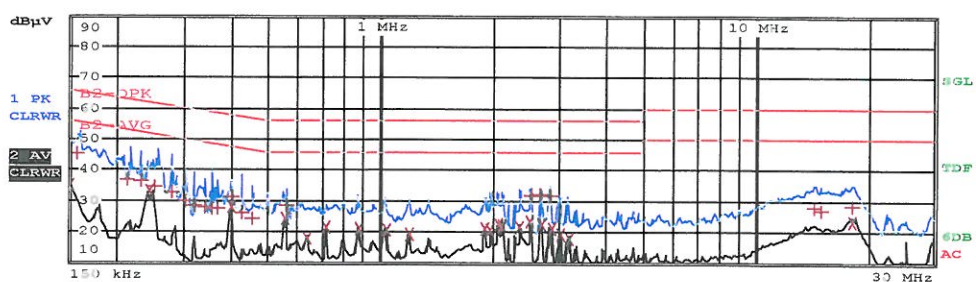
Date: 4.APR.2019 09:15:42

Tabel 1.8

2. Banda 150 kHz - 30 MHz,
1. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity
[45], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM RBW 9 kHz
Att 10 dB MT 1 s
PREAMP OFF



Date: 2.APR.2019 11:45:55

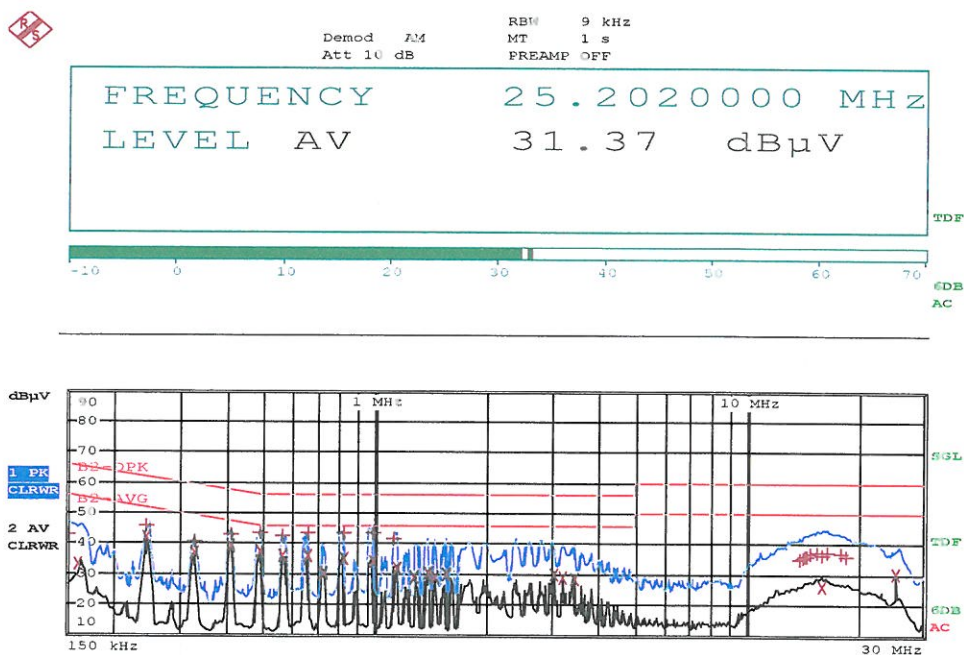
Figura 2.1

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	B2-OPK			
Trace2:	B2-AVG			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
2 Average	150 kHz	35.07	-20.92	
1 Quasi Peak	158 kHz	45.17	-20.39	
1 Quasi Peak	214 kHz	36.89	-26.15	
1 Quasi Peak	230 kHz	36.48	-25.96	
2 Average	246 kHz	33.21	-18.67	
1 Quasi Peak	254 kHz	34.51	-27.11	
1 Quasi Peak	278 kHz	32.86	-28.01	
1 Quasi Peak	302 kHz	29.80	-30.38	
1 Quasi Peak	318 kHz	28.64	-31.11	
1 Quasi Peak	338 kHz	28.18	-31.06	
1 Quasi Peak	354 kHz	27.59	-31.27	
1 Quasi Peak	366 kHz	27.62	-30.96	
1 Quasi Peak	398 kHz	31.41	-26.48	
2 Average	398 kHz	28.05	-19.83	
1 Quasi Peak	422 kHz	26.35	-31.05	
1 Quasi Peak	450 kHz	24.43	-32.44	
2 Average	554 kHz	24.17	-21.82	
1 Quasi Peak	558 kHz	28.51	-27.49	
2 Average	638 kHz	17.64	-28.35	
2 Average	714 kHz	21.37	-24.62	

Date: 2.APR.2019 11:45:35

Tabel 2.1

2. Rezultate masuratori pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", cu sursa OSRAM.



Date: 5.APR.2019 09:20:34

Figura 2.2

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	B2-QPK			
Trace2:	B2-AVG			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
1 Quasi Peak	150 kHz	43.10	-22.89	
2 Average	162 kHz	33.09	-22.26	
2 Average	242 kHz	42.06	-9.96	
1 Quasi Peak	246 kHz	45.69	-16.19	
1 Quasi Peak	326 kHz	40.75	-18.79	
2 Average	326 kHz	36.70	-12.85	
1 Quasi Peak	406 kHz	42.78	-14.94	
2 Average	406 kHz	39.03	-8.69	
1 Quasi Peak	490 kHz	43.56	-12.60	
2 Average	490 kHz	37.44	-8.72	
1 Quasi Peak	558 kHz	42.29	-13.70	
2 Average	562 kHz	35.75	-10.24	
1 Quasi Peak	654 kHz	43.50	-12.49	
2 Average	654 kHz	36.01	-9.98	
2 Average	722 kHz	30.52	-15.47	
1 Quasi Peak	818 kHz	43.44	-12.55	
2 Average	818 kHz	35.00	-10.99	
1 Quasi Peak	982 kHz	43.62	-12.38	
2 Average	982 kHz	34.26	-11.74	
1 Quasi Peak	1.122 MHz	41.60	-14.39	

Date: 5.APR.2019 09:20:23

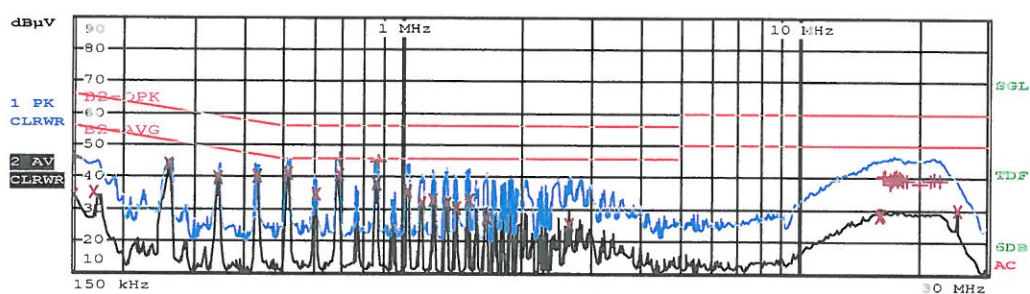
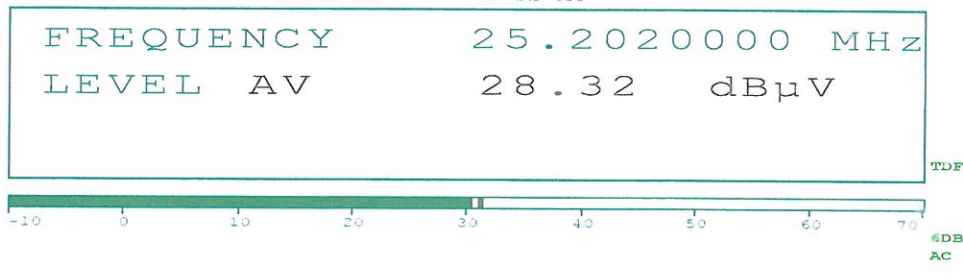
Tabel 2.2

3. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [45], cod RS 82023-009", echipat cu sursa OSRAM.



Demod 2M
Att 10 dB

RBW 9 kHz
MT 1 s
PREAMP OFF



Date: 8.APR.2019 11:15:55

Figura 2.3

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B2-QPK		
Trace2:	B2-AVG		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	45.67	-20.32
2 Average	150 kHz	34.01	-21.98
2 Average	170 kHz	34.87	-20.08
2 Average	258 kHz	43.81	-7.67
2 Average	342 kHz	39.62	-9.52
2 Average	430 kHz	40.19	-7.05
2 Average	514 kHz	41.15	-4.84
2 Average	602 kHz	34.68	-11.31
2 Average	690 kHz	40.47	-5.52
1 Quasi Peak	694 kHz	45.59	-10.40
2 Average	858 kHz	37.92	-8.07
1 Quasi Peak	866 kHz	44.89	-11.10
2 Average	1.026 MHz	35.47	-10.52
2 Average	1.122 MHz	31.56	-14.43
2 Average	1.194 MHz	32.61	-13.38
2 Average	1.298 MHz	31.88	-14.11
2 Average	1.366 MHz	30.11	-15.88
2 Average	1.47 MHz	32.47	-13.52
2 Average	1.646 MHz	26.95	-19.04
2 Average	2.646 MHz	25.41	-20.58

Date: 8.APR.2019 11:15:32

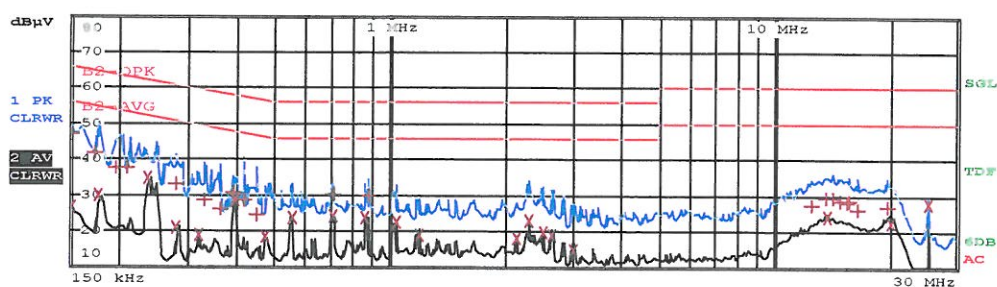
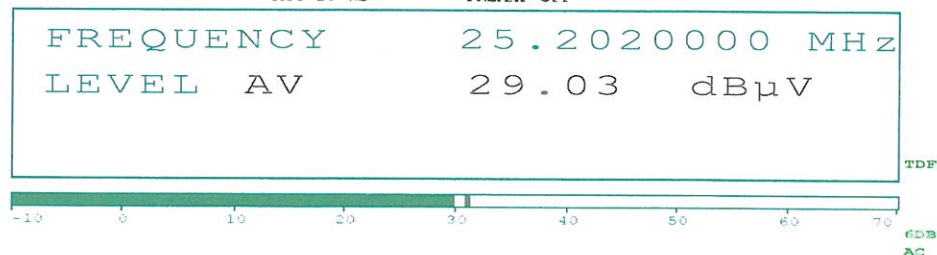
Tabel 2.3

4. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod 2M
Att 10 dB

RBW 9 kHz
MT 1 s
PREAMP OFF



Date: 8.APR.2019 10:27:26

Figura 2.4

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	B2-QPK			
Trace2:	B2-AVG			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
1 Quasi Peak	150 kHz	47.00	-18.99	
2 Average	150 kHz	26.62	-29.37	
1 Quasi Peak	174 kHz	41.74	-23.02	
2 Average	178 kHz	29.71	-24.86	
1 Quasi Peak	198 kHz	37.79	-25.89	
1 Quasi Peak	210 kHz	37.54	-25.66	
2 Average	238 kHz	34.60	-17.56	
1 Quasi Peak	278 kHz	33.28	-27.59	
2 Average	282 kHz	20.82	-29.93	
2 Average	318 kHz	18.76	-30.99	
1 Quasi Peak	330 kHz	28.64	-30.80	
1 Quasi Peak	362 kHz	26.04	-32.63	
1 Quasi Peak	390 kHz	30.52	-27.54	
2 Average	394 kHz	28.62	-19.35	
1 Quasi Peak	414 kHz	28.43	-29.13	
1 Quasi Peak	446 kHz	24.53	-32.41	
2 Average	474 kHz	18.48	-27.96	
2 Average	554 kHz	23.64	-22.35	
1 Quasi Peak	706 kHz	30.26	-25.73	
2 Average	710 kHz	24.06	-21.93	

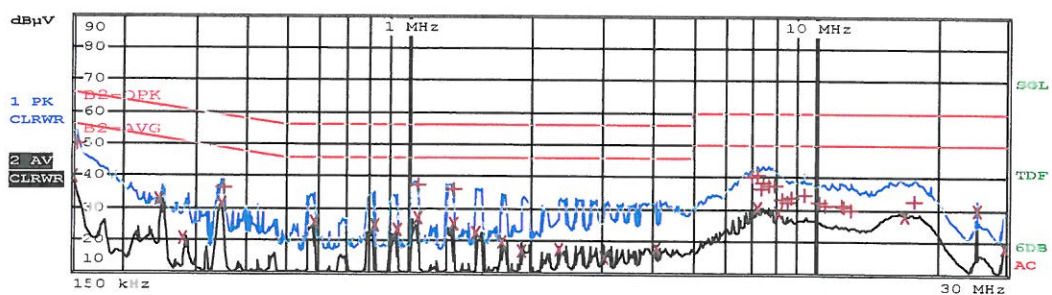
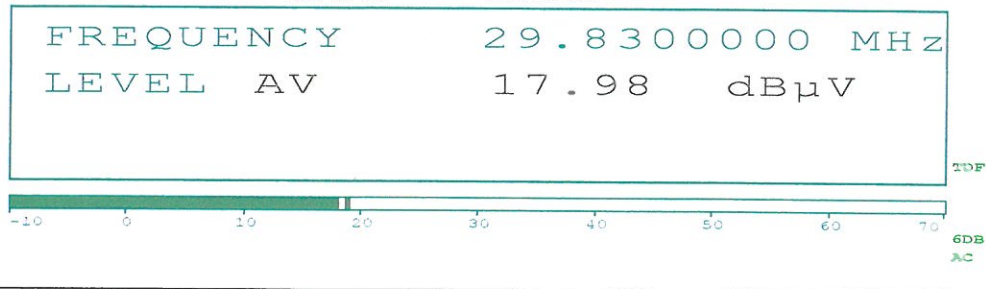
Date: 8.APR.2019 10:26:48

Tabel 2.4

5. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM RBW 9 kHz
Att 10 dB MT 1 s
PREAMP OFF



Date: 8.APR.2019 11:37:32

Figura 2.5

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	B2-QPK			
Trace2:	B2-AVG			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA	LIMIT dB
2 Average	150 kHz	39.75	-16.24	
1 Quasi Peak	154 kHz	49.82	-15.95	
2 Average	246 kHz	32.72	-19.16	
2 Average	282 kHz	20.61	-30.14	
2 Average	346 kHz	31.30	-17.75	
1 Quasi Peak	350 kHz	36.24	-22.71	
2 Average	582 kHz	25.68	-20.31	
2 Average	818 kHz	24.65	-21.34	
2 Average	934 kHz	23.39	-22.60	
2 Average	1.05 MHz	27.01	-18.99	
1 Quasi Peak	1.054 MHz	37.92	-18.47	
1 Quasi Peak	1.286 MHz	35.81	-20.19	
2 Average	1.286 MHz	25.19	-20.80	
2 Average	1.466 MHz	22.44	-23.55	
2 Average	1.69 MHz	19.77	-26.23	
2 Average	1.914 MHz	16.90	-29.10	
2 Average	2.366 MHz	17.33	-28.66	
2 Average	3.038 MHz	15.00	-30.99	
2 Average	4.098 MHz	17.58	-28.41	
1 Quasi Peak	6.99 MHz	40.27	-19.73	

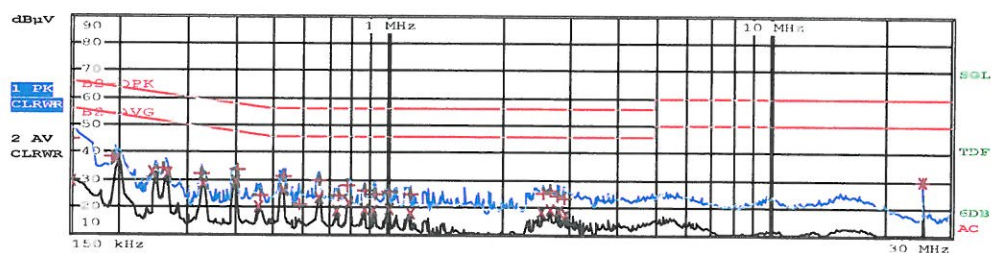
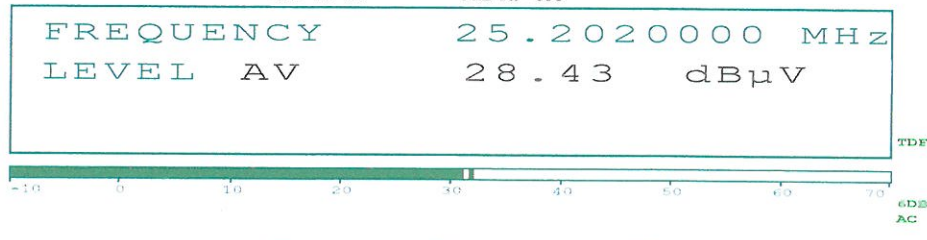
Date: 8.APR.2019 11:37:07

Tabel 2.5

6.Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [60], cod RS 82023-009", echipat cu sursa OSRAM.



Demod Att 10 dB
REW 9 kHz
MT 1 s
PREMP OFF



Date: 5.APR.2019 09:11:51

Figura 2.6

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B2-QPK		
Trace2:	B2-AVG		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	44.93	-21.06
2 Average	150 kHz	29.36	-26.64
1 Quasi Peak	194 kHz	38.39	-25.47
2 Average	198 kHz	37.24	-16.44
2 Average	246 kHz	32.86	-19.03
1 Quasi Peak	262 kHz	34.11	-27.25
2 Average	266 kHz	32.16	-19.07
1 Quasi Peak	326 kHz	32.23	-27.31
2 Average	330 kHz	28.37	-21.07
2 Average	398 kHz	29.47	-18.41
1 Quasi Peak	402 kHz	33.44	-24.36
2 Average	458 kHz	20.25	-26.47
1 Quasi Peak	462 kHz	24.47	-32.18
1 Quasi Peak	530 kHz	31.12	-24.88
2 Average	530 kHz	26.34	-19.65
1 Quasi Peak	586 kHz	20.93	-35.06
1 Quasi Peak	654 kHz	29.83	-26.16
2 Average	654 kHz	23.18	-22.81
2 Average	734 kHz	18.68	-27.31
1 Quasi Peak	738 kHz	24.30	-31.69

Date: 5.APR.2019 09:11:45

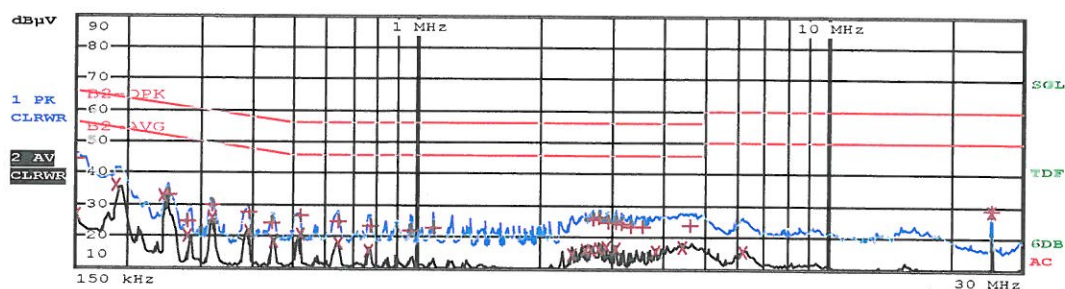
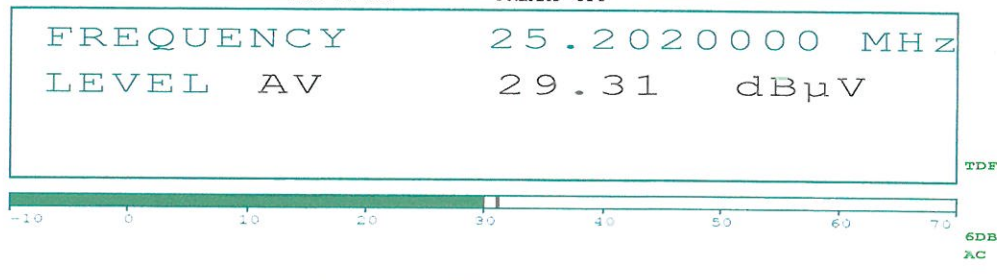
Tabel 2.6

7. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [75], cod RS 82023-009", echipat cu sursa OSRAM.



Demod AM
Att 10 dB

RBW 9 kHz
MT 1 s
PREAMP OFF



Date: 8.APR.2019 12:20:32

Figura 2.7

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B2-QPK		
Trace2:	B2-AVG		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	44.36	-21.64
2 Average	150 kHz	26.39	-29.60
2 Average	190 kHz	35.76	-18.27
2 Average	246 kHz	32.68	-19.20
1 Quasi Peak	250 kHz	33.07	-28.68
1 Quasi Peak	282 kHz	24.74	-36.00
2 Average	282 kHz	20.22	-30.52
1 Quasi Peak	318 kHz	30.04	-29.71
2 Average	318 kHz	25.62	-24.13
1 Quasi Peak	390 kHz	27.61	-30.44
2 Average	390 kHz	21.25	-26.80
1 Quasi Peak	442 kHz	24.29	-32.73
2 Average	446 kHz	17.99	-28.95
1 Quasi Peak	518 kHz	26.61	-29.38
2 Average	518 kHz	20.46	-25.53
1 Quasi Peak	642 kHz	24.81	-31.18
2 Average	642 kHz	17.56	-28.43
2 Average	766 kHz	15.21	-30.78
1 Quasi Peak	770 kHz	23.31	-32.68
1 Quasi Peak	962 kHz	21.75	-34.25

Date: 8.APR.2019 12:20:07

Tabel 2.7

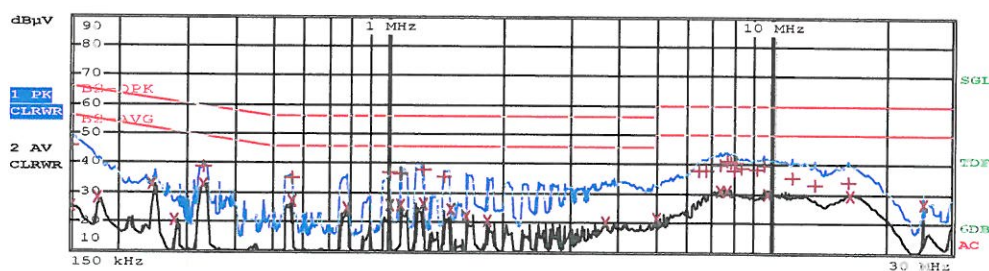
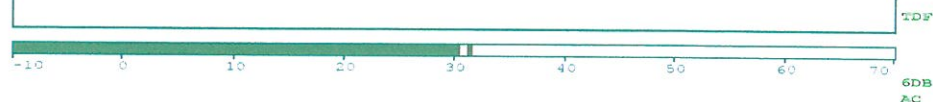
8. Rezultate masurari pentru "CORP DE ILUMINAT DE EXTERIOR CU LED-uri tip EVOCity [75], cod RS 82023-009", echipat cu sursa TRIDONIC.



Demod AM
Att 10 dB

RBW 9 kHz
MT 1 s
PREAMP OFF

FREQUENCY 25.2020000 MHz
LEVEL AV 28.51 dBμV



Date: 4.APR.2019 09:20:58

Figura 2.8

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	B2-QPK		
Trace2:	B2-AVG		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	45.75	-20.24
2 Average	150 kHz	25.39	-30.60
2 Average	178 kHz	28.04	-26.53
2 Average	246 kHz	32.84	-19.04
2 Average	282 kHz	20.31	-30.44
1 Quasi Peak	330 kHz	39.86	-20.58
2 Average	334 kHz	32.79	-16.56
2 Average	558 kHz	27.26	-18.73
1 Quasi Peak	562 kHz	35.20	-20.80
2 Average	782 kHz	24.94	-21.06
2 Average	1.006 MHz	25.54	-20.45
1 Quasi Peak	1.01 MHz	36.96	-19.04
1 Quasi Peak	1.074 MHz	36.57	-19.42
2 Average	1.078 MHz	25.61	-20.39
1 Quasi Peak	1.226 MHz	37.75	-18.25
2 Average	1.23 MHz	26.11	-19.86
1 Quasi Peak	1.406 MHz	35.66	-20.33
2 Average	1.458 MHz	24.27	-21.72
2 Average	1.614 MHz	22.02	-23.97
2 Average	1.83 MHz	20.59	-25.40

Date: 4.APR.2019 09:20:44

Tabel 2.8

Referinta 0 dB (μV) = 1 μV

Cerinta este îndeplinită