Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

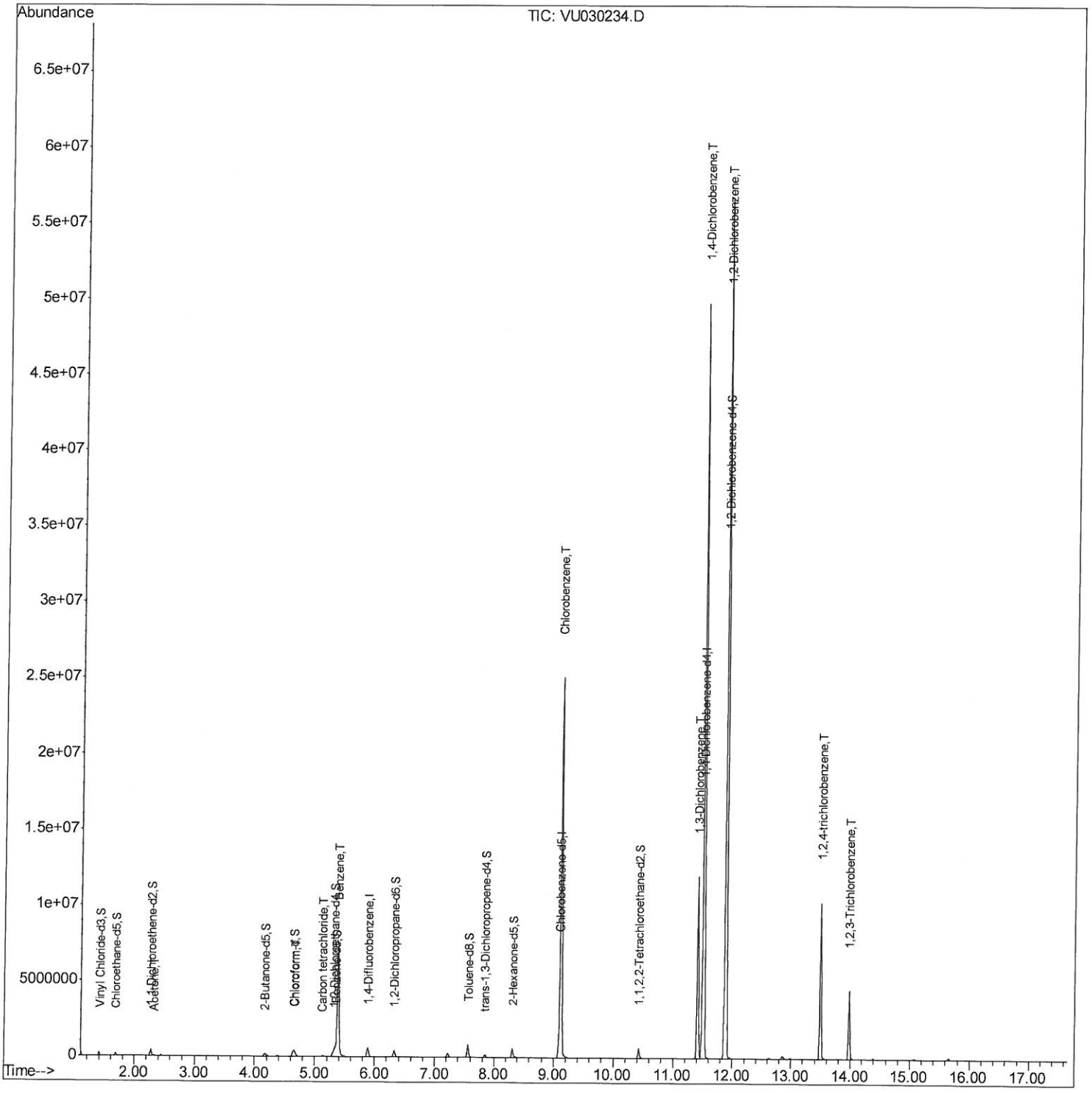
Quantitation Report (QT Reviewed)

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 22 02:11:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

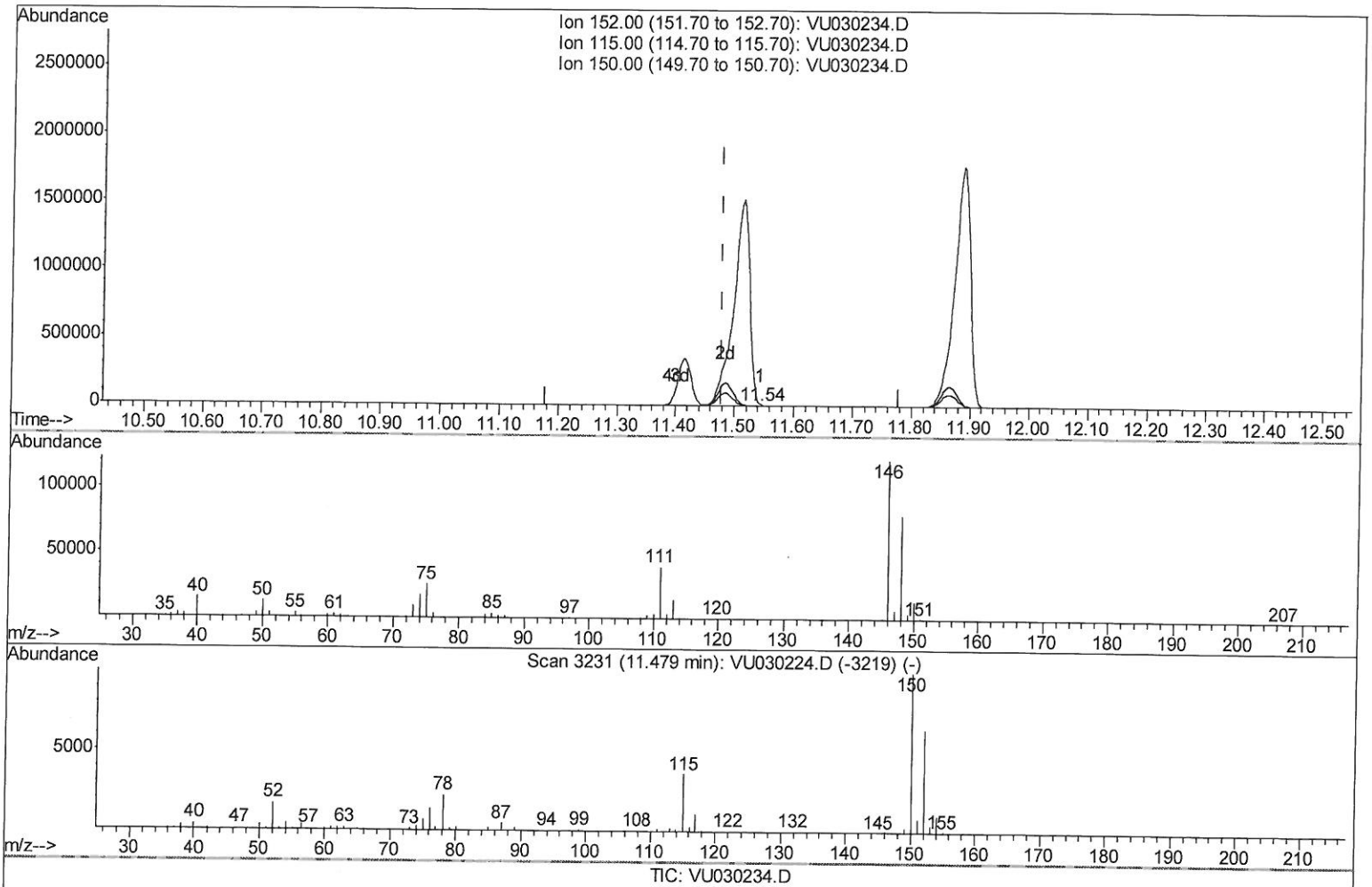
Quantitation Report (Qedit)

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 22 01:31:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM



TIC: VU030234.D

(60) 1,4-Dichlorobenzene-d4 (I)

11.543min (+0.064) 50.00ug/L

response 105

Ion	Exp%	Act%
152.00	100	100
115.00	55.20	40.95
150.00	171.30	216.19
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

Quantitation Report (Qedit)

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 22 01:31:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
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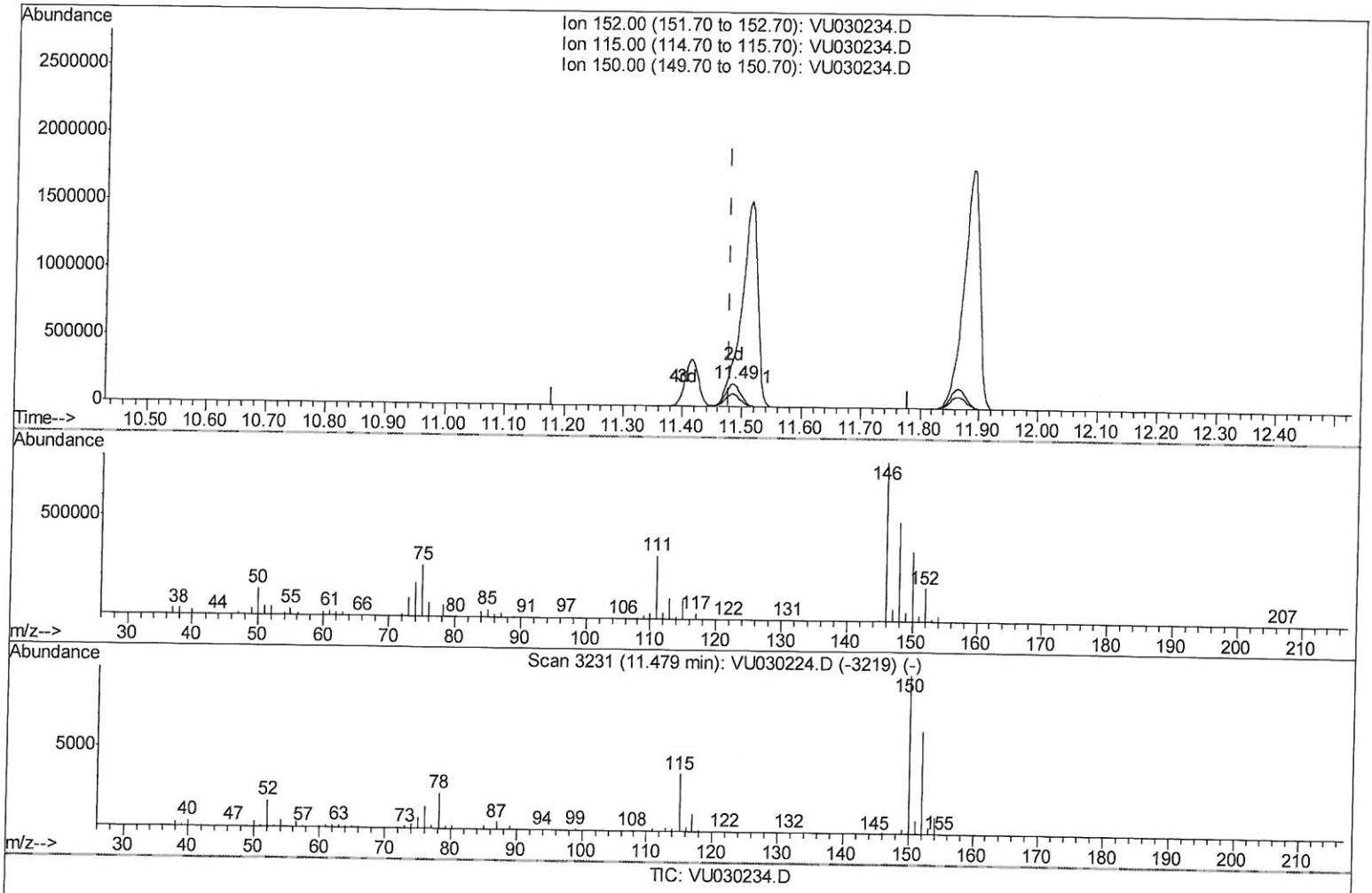


(60) 1,4-Dichlorobenzene-d4 (I)

11.485min (+0.006) 50.00ug/L m

response 303041

Ion	Exp%	Act%
152.00	100	100
115.00	55.20	0.01
150.00	171.30	0.07
0.00	0.00	0.00

MC
3/27/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

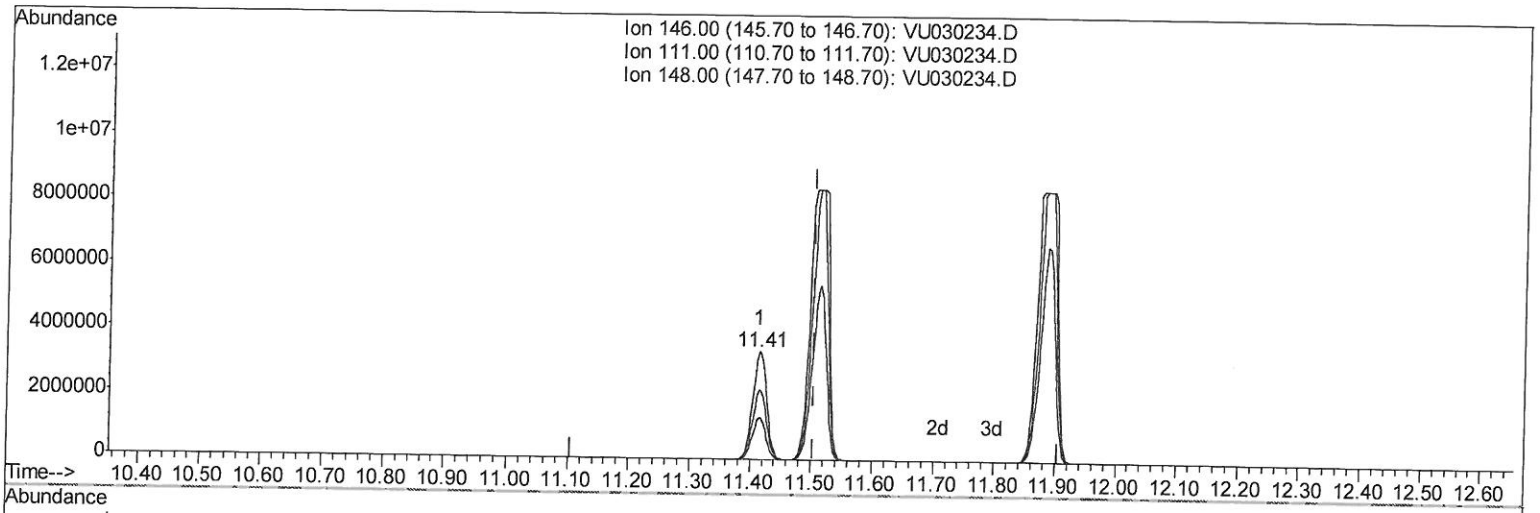
Quantitation Report (Qedit)

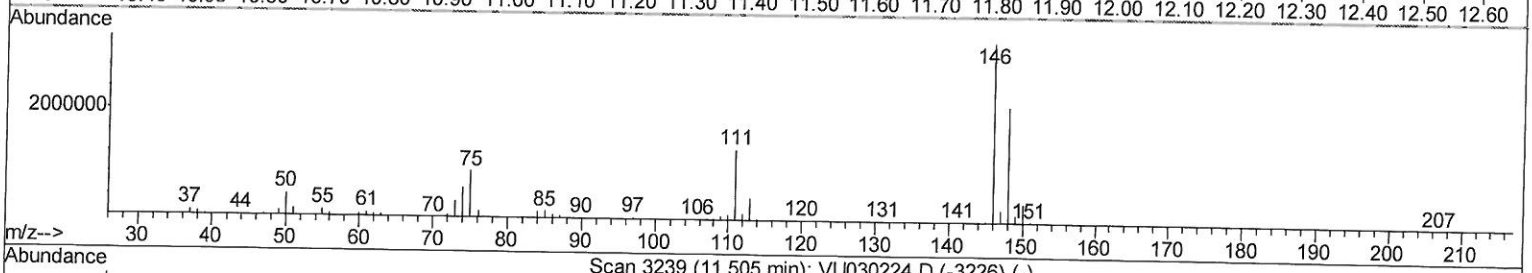
Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

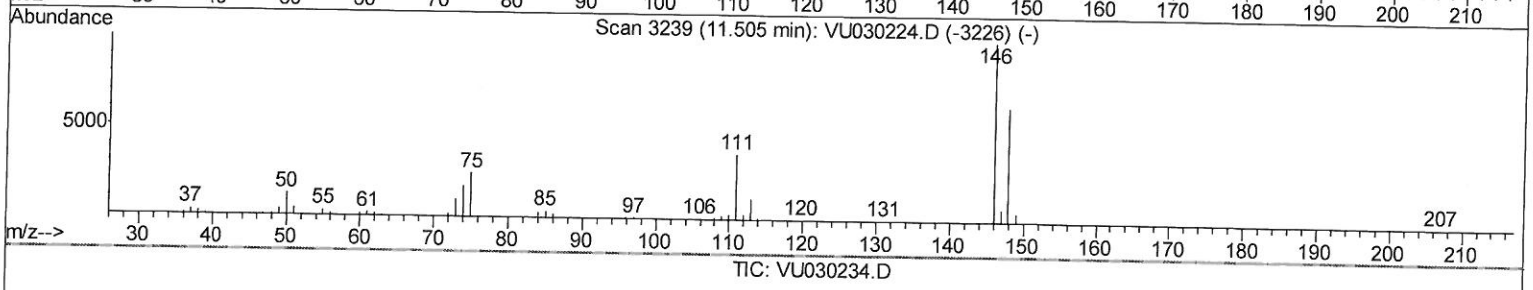
Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM







TIC: VU030234.D

(63) 1,4-Dichlorobenzene (T)

11.414min (-0.090) 525.73ug/L

response 5272426

Ion	Exp%	Act%
146.00	100	100
111.00	36.10	39.09
148.00	63.80	64.43
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

Quantitation Report (Qedit)

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
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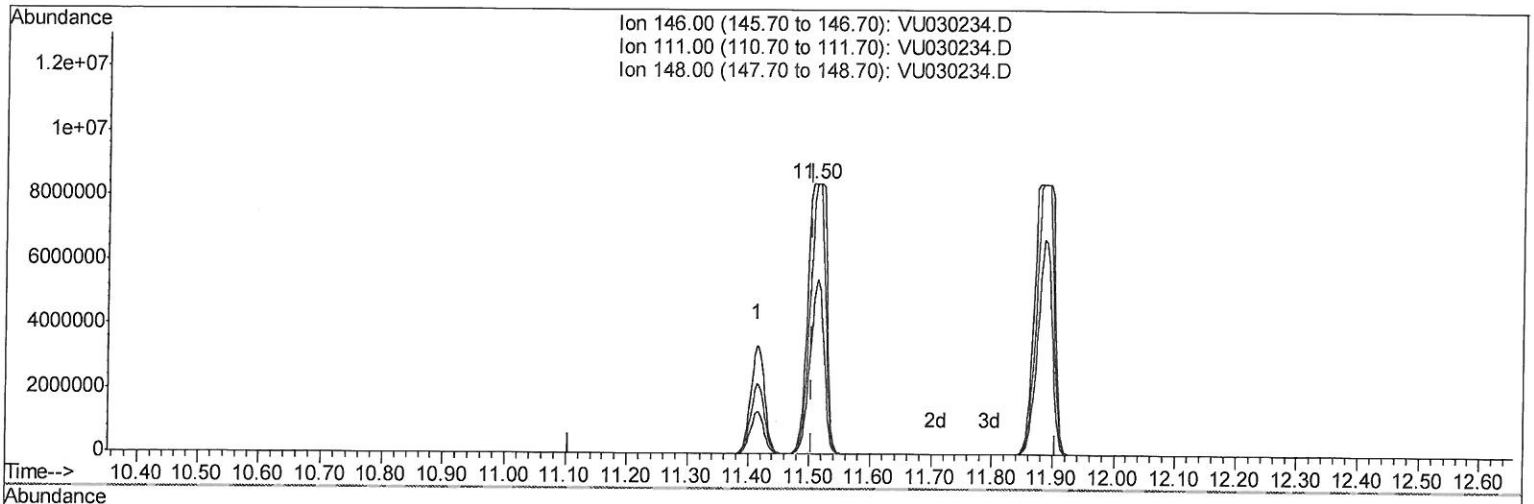
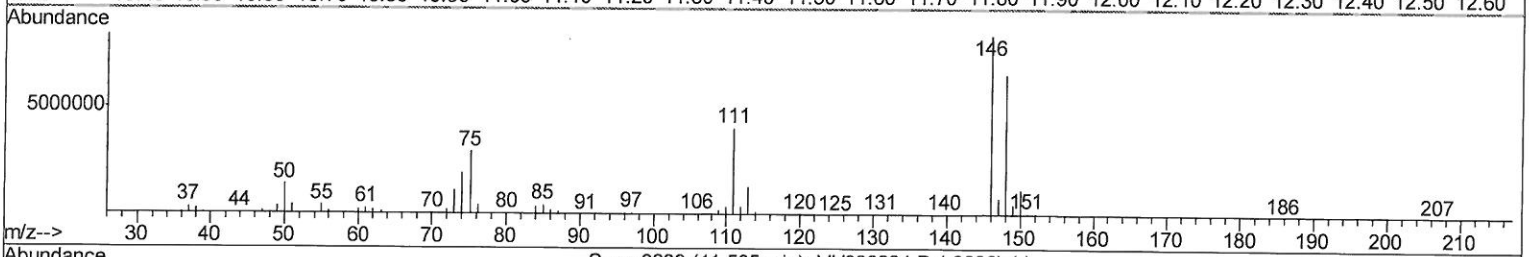
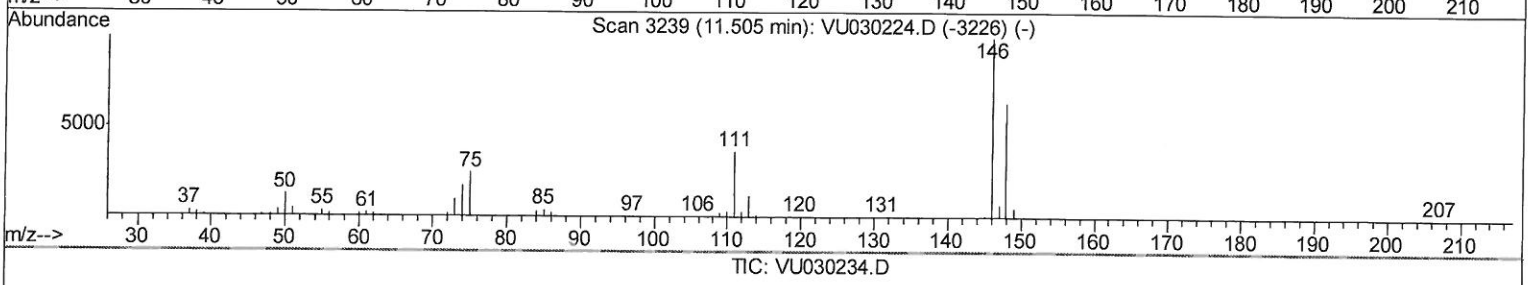
3/22/2019 12:13:48 PM







TIC: VU030234.D

(63) 1,4-Dichlorobenzene (T)

11.504min (-0.000) 1805.08ug/L m

response 18102731

Ion	Exp%	Act%
146.00	100	100
111.00	36.10	48.22#
148.00	63.80	77.94
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

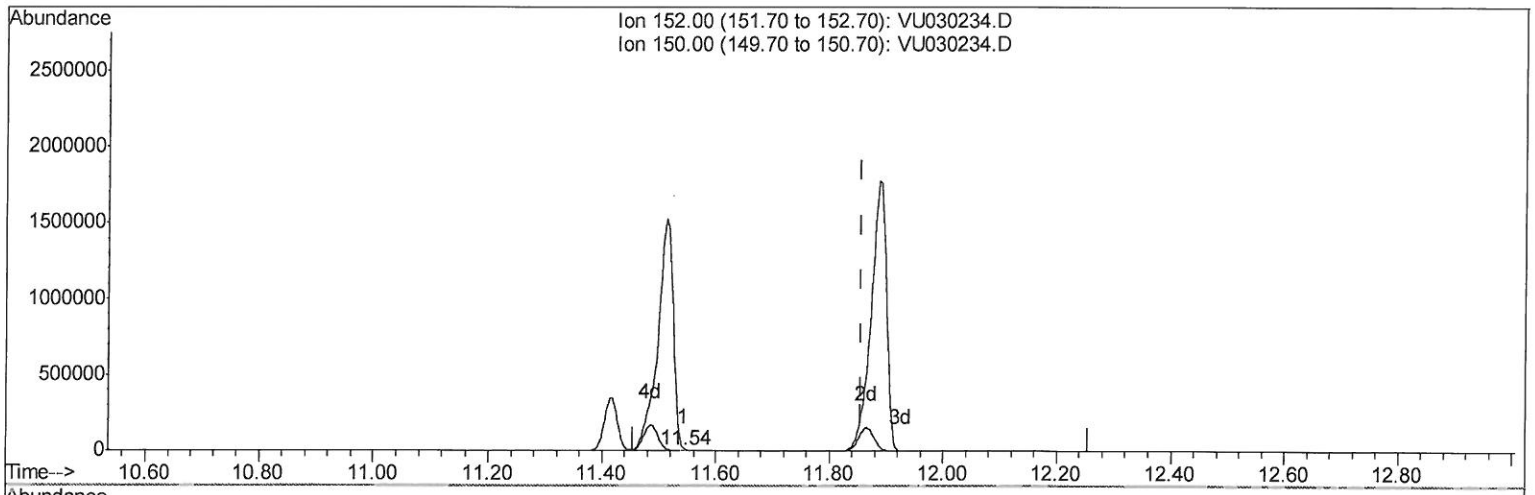
Quantitation Report (Qedit)

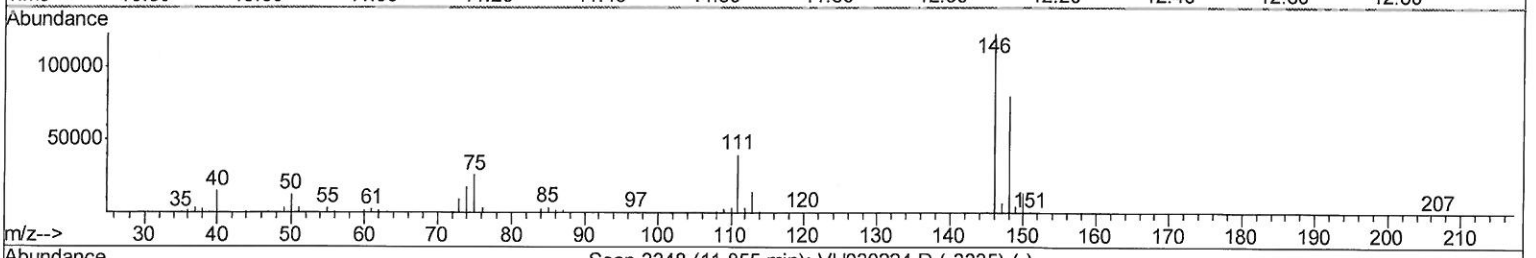
Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

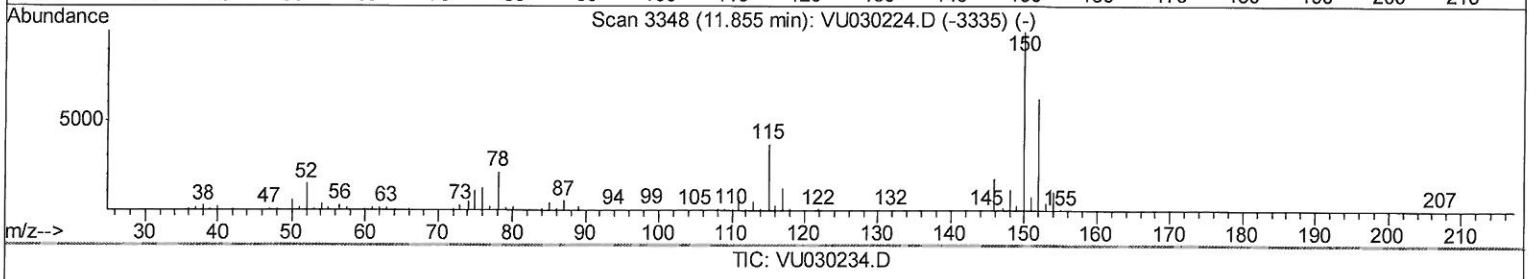
Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM







TIC: VU030234.D

(64) 1,2-Dichlorobenzene-d4 (S)

11.543min (-0.312) 0.02ug/L

response 105

Ion	Exp%	Act%
152.00	100	100
150.00	172.20	216.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

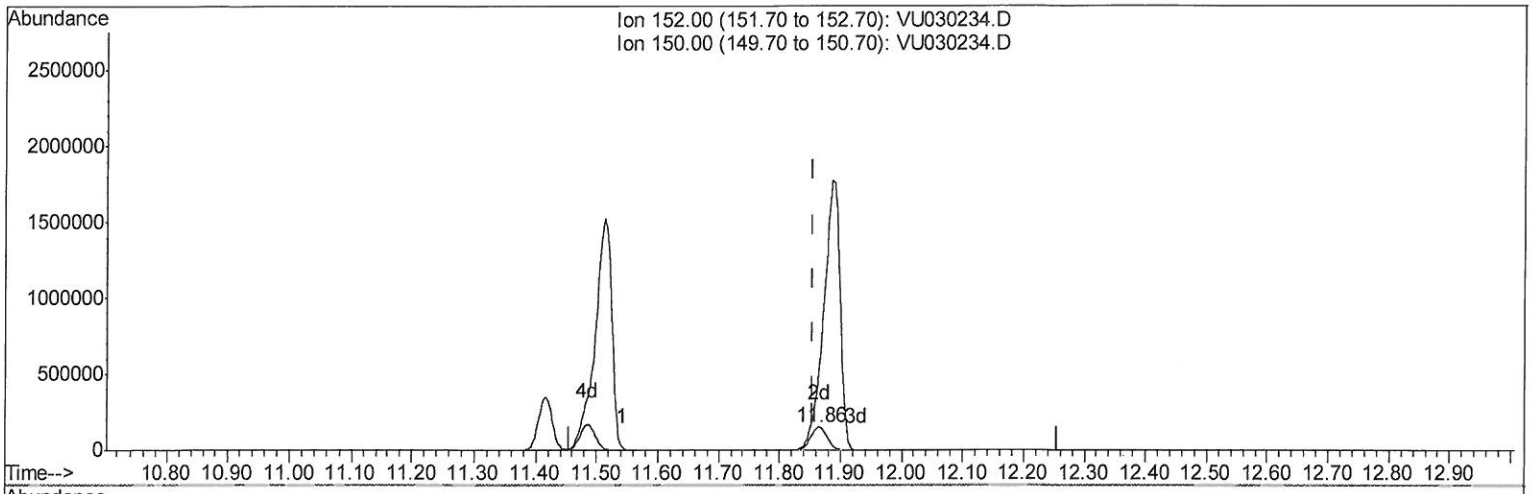
Quantitation Report (Qedit)

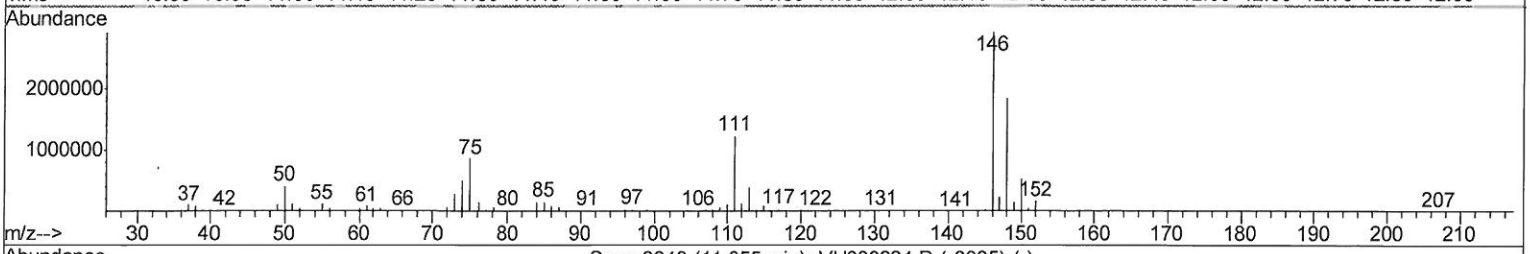
Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

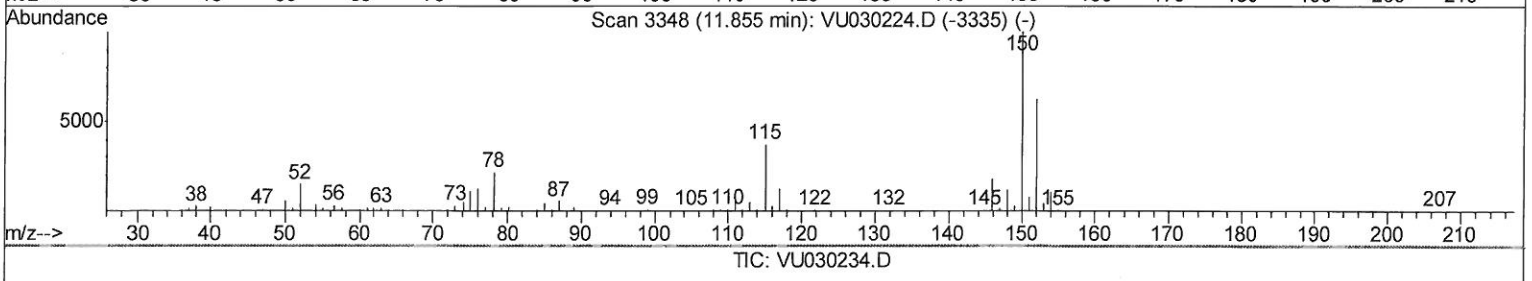
Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM







TIC: VU030234.D

(64) 1,2-Dichlorobenzene-d4 (S)

11.865min (+0.009) 46.91ug/L m

response 285414

Ion	Exp%	Act%
152.00	100	100
150.00	172.20	0.08#
0.00	0.00	0.00
0.00	0.00	0.00

7 MB 3/22/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

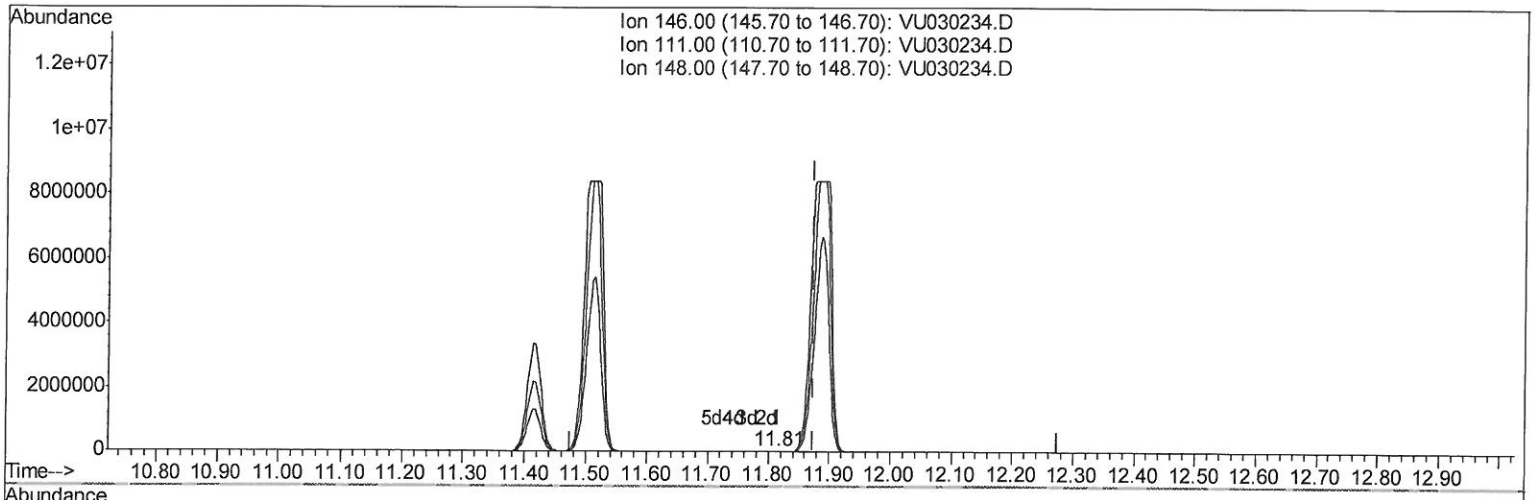
Quantitation Report (Qedit)

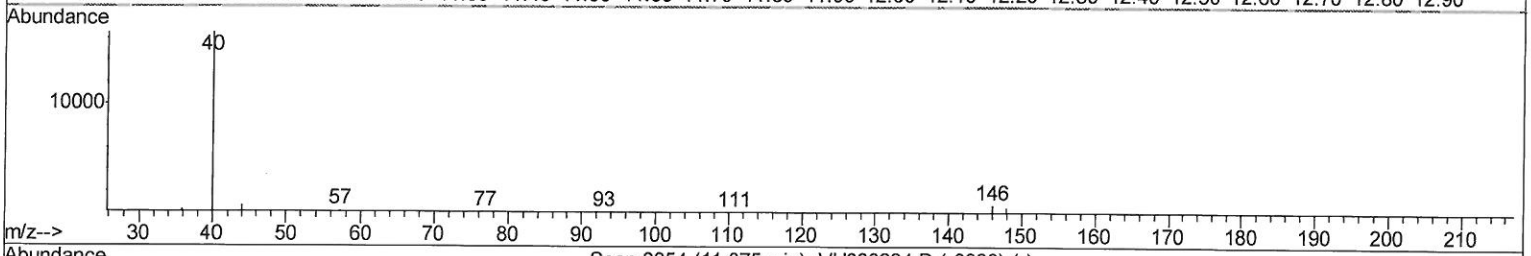
Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

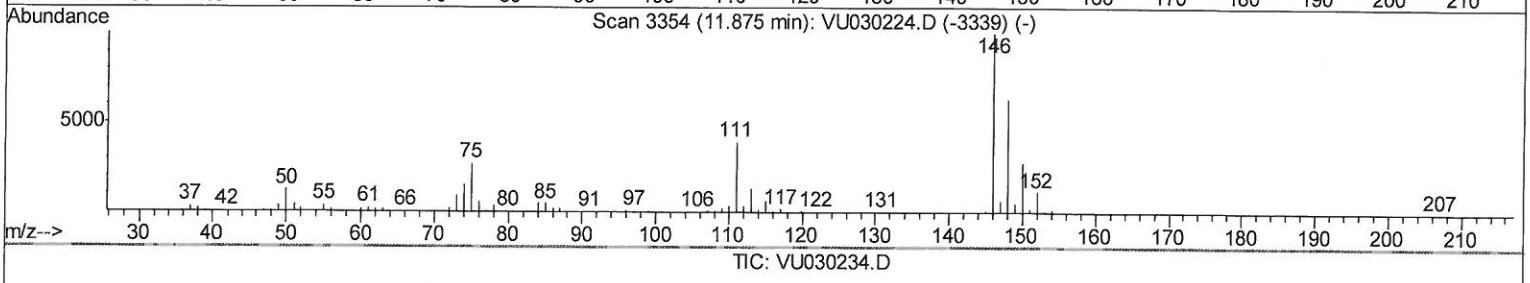
Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM







TIC: VU030234.D

(65) 1,2-Dichlorobenzene (T)

11.813min (-0.061) 0.00ug/L

response 13

Ion	Exp%	Act%
146.00	100	100
111.00	39.60	27.01#
148.00	65.00	66.11
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

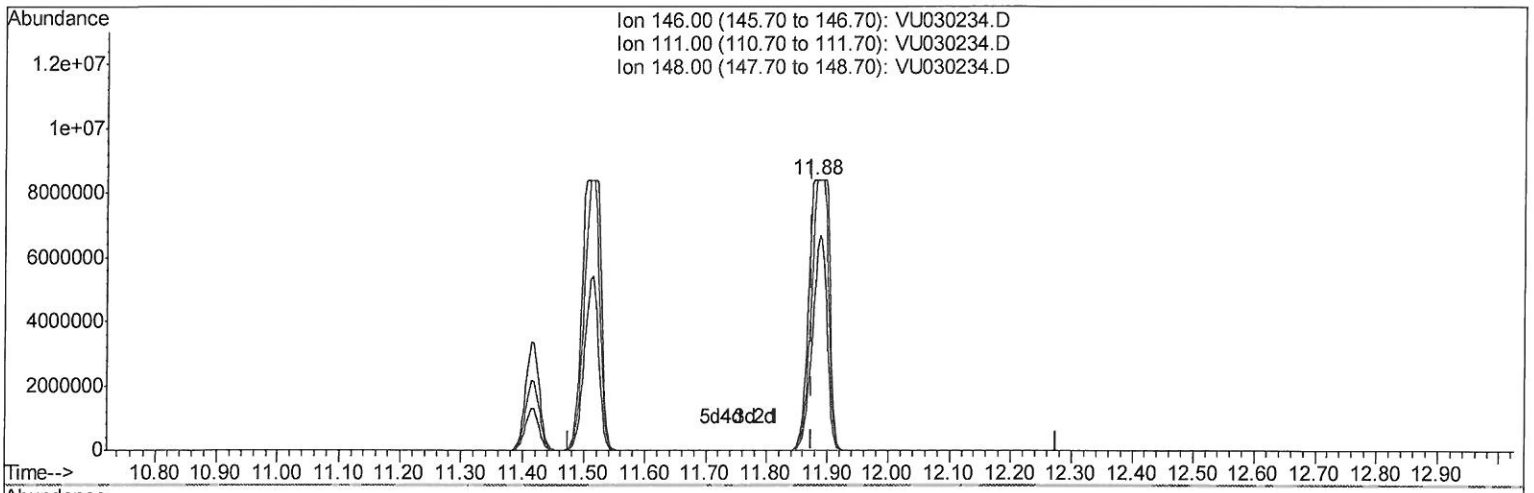
Quantitation Report (Qedit)

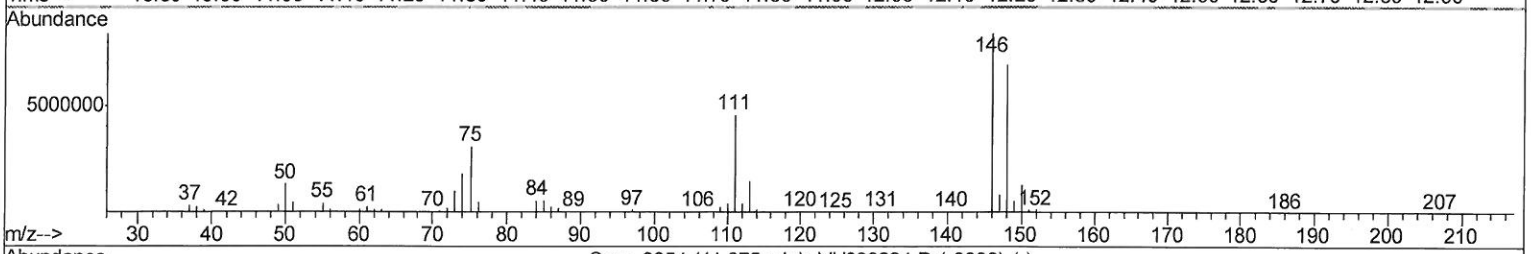
Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

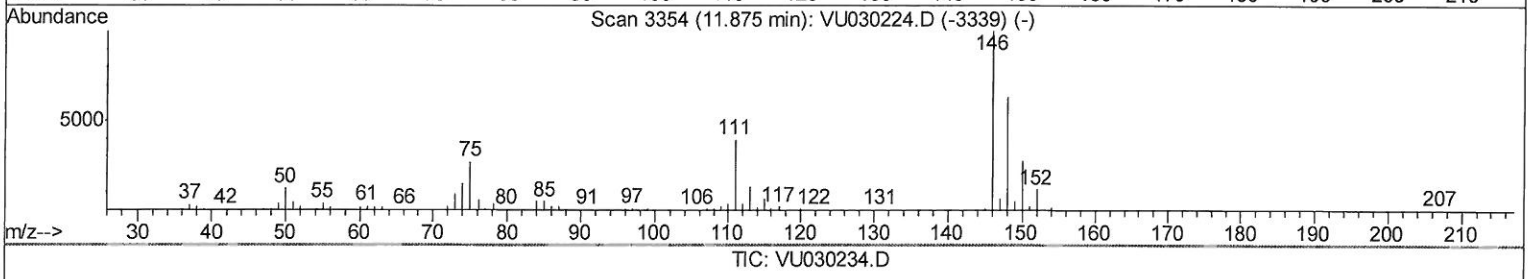
Quant Time: Mar 22 02:09:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM







TIC: VU030234.D

(65) 1,2-Dichlorobenzene (T)

11.877min (+0.003) 2004.04ug/L m

response 19796218

7MC 3/27/19

Ion	Exp%	Act%
146.00	100	100
111.00	39.60	54.20#
148.00	65.00	82.48#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032019\

Quantitation Report (QT Reviewed)

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 22 02:11:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : C0967

Manual Integrations APPROVED
MMDadoda
3/22/2019 12:13:48 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	541184	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	536799	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	303041m	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.40	65	153396	41.92	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 83.84%			
7) Chloroethane-d5	1.68	69	129115	44.12	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 88.24%			
11) 1,1-Dichloroethene-d2	2.27	63	213271	31.95	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 63.90%			
21) 2-Butanone-d5	4.17	46	254686	93.81	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 93.81%			
24) Chloroform-d	4.65	84	316949	47.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 94.38%			
26) 1,2-Dichloroethane-d4	5.31	65	180852	47.21	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 94.42%			
32) Benzene-d6	5.34	84	649791	45.94	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 91.88%			
36) 1,2-Dichloropropane-d6	6.33	67	204167	46.65	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 93.30%			
41) Toluene-d8	7.56	98	585492	44.02	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 88.04%			
43) trans-1,3-Dichloropropene-	7.85	79	95386	44.75	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 89.50%			
47) 2-Hexanone-d5	8.31	63	212460	93.60	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 93.60%			
57) 1,1,2,2-Tetrachloroethane-	10.43	84	311749	46.43	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 92.86%			
64) 1,2-Dichlorobenzene-d4	11.86	152	285414m	46.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.82%			
Target Compounds						Qvalue
13) Acetone	2.32	43	13839	4.878	ug/L	94
25) Chloroform	4.67	83	257172	37.718	ug/L	98
31) Carbon tetrachloride	5.13	117	20110	3.927	ug/L	98
33) Benzene	5.39	78	7833775	505.817	ug/L	100
51) Chlorobenzene	9.12	112	14227188	1275.693	ug/L	94
62) 1,3-Dichlorobenzene	11.41	146	5272426	545.325	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	18102731m	1805.081	ug/L	
65) 1,2-Dichlorobenzene	11.88	146	19796218m	2004.043	ug/L	
68) 1,2,4-trichlorobenzene	13.50	180	3362184	503.163	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	1471084	210.990	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed