Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

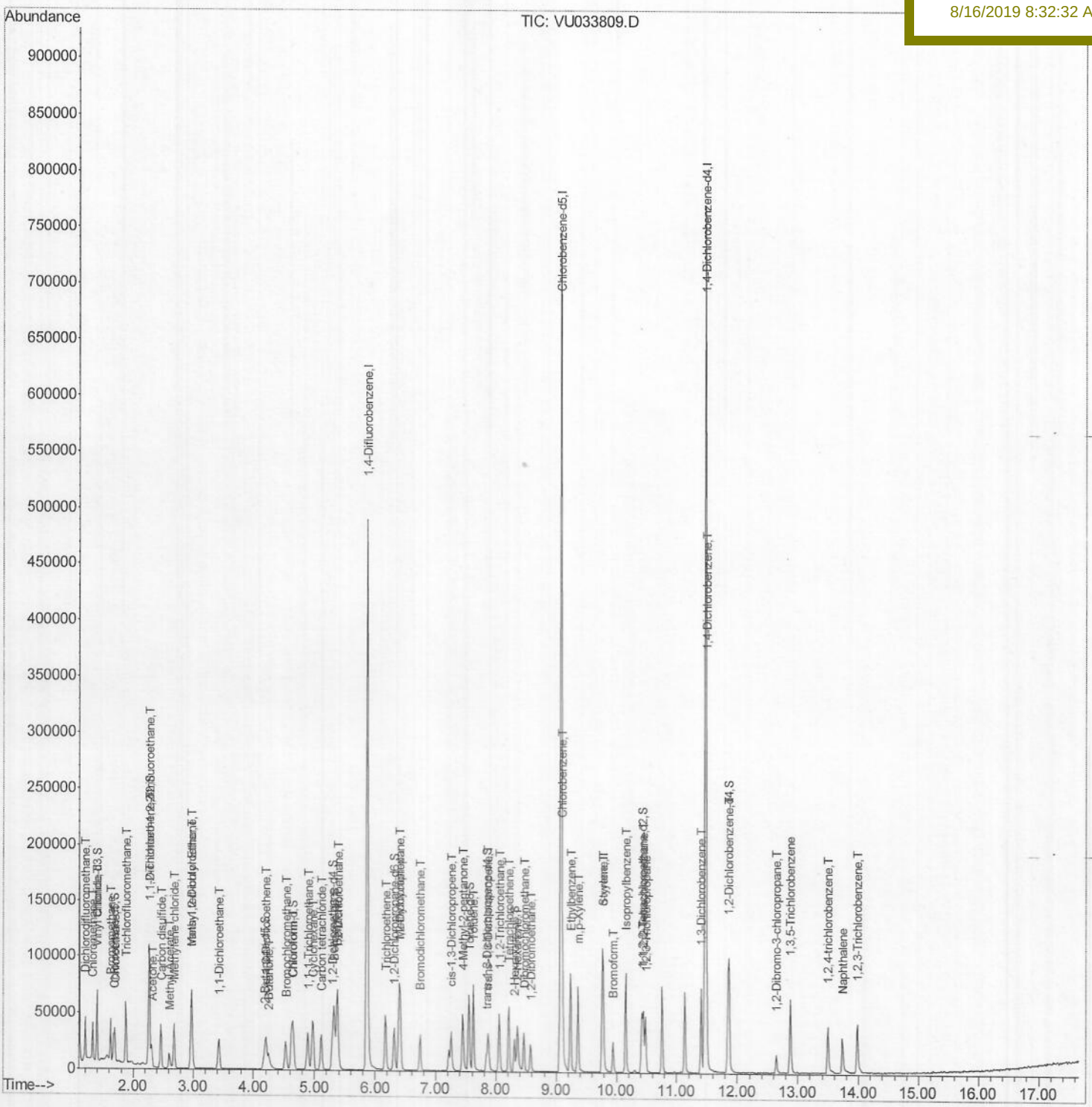
Quantitation Report (QT Reviewed)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:59:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

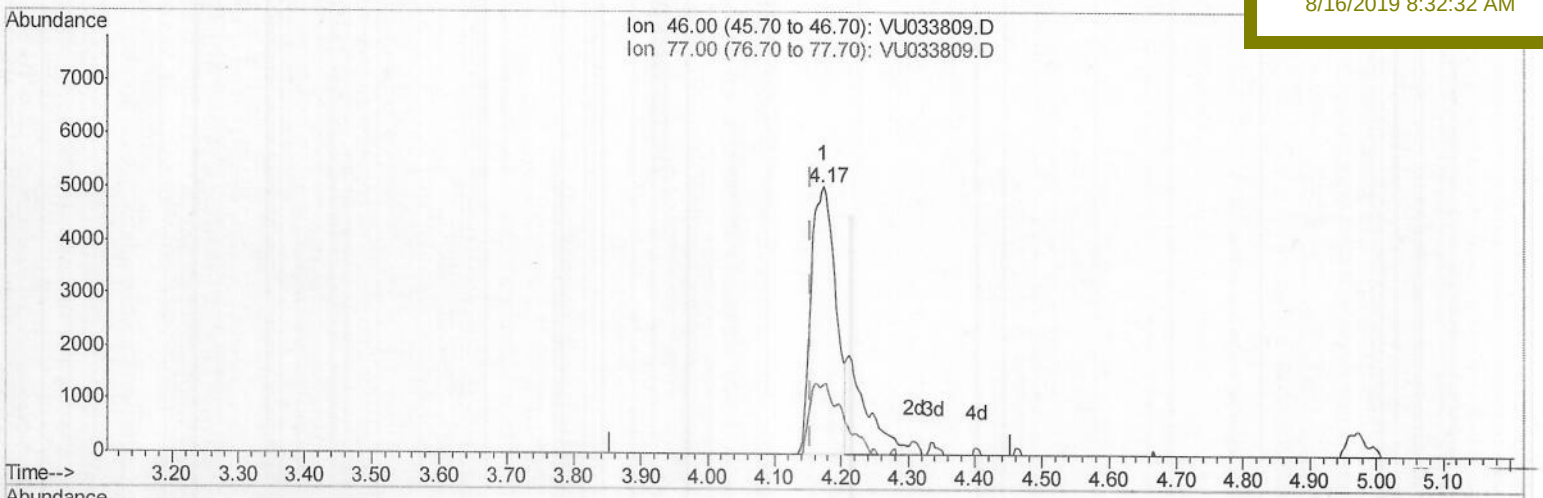
Quantitation Report (Qedit)

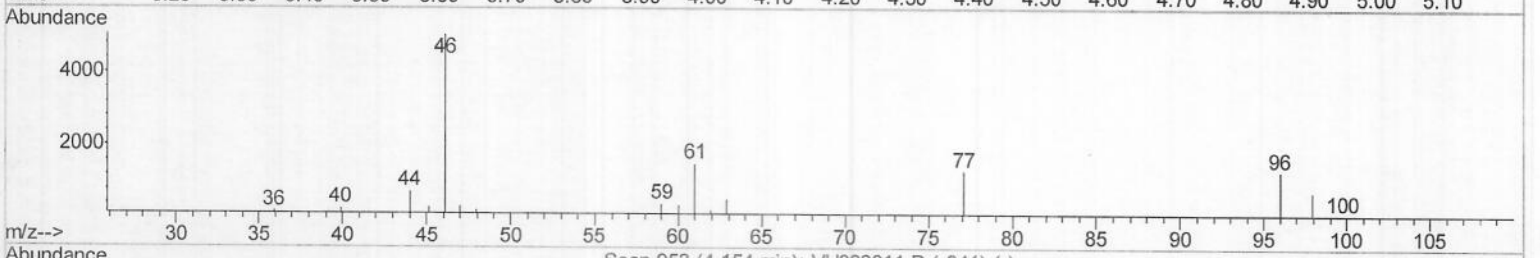
Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

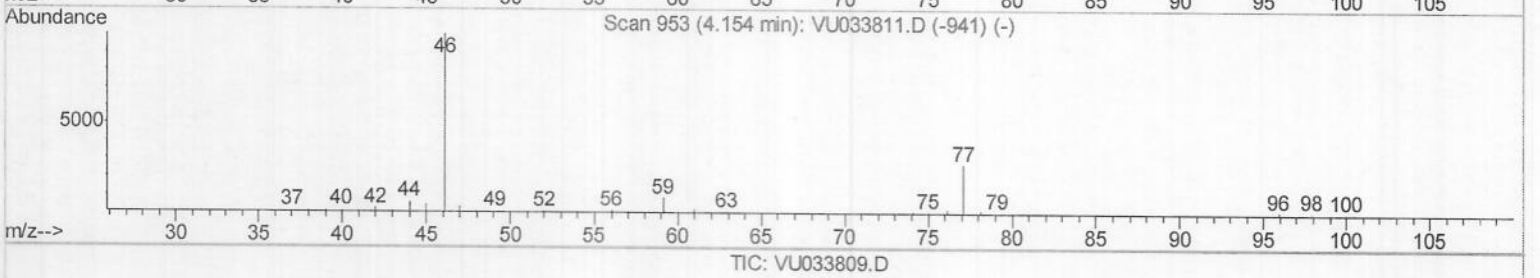
Quant Time: Aug 16 01:47:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM







TIC: VU033809.D

(21) 2-Butanone-d5 (S)

4.174min (+0.019) 6.98ug/L

response 13069

Ion	Exp%	Act%
46.00	100	100
77.00	24.60	11.27#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

Quantitation Report (Qedit)

Data File : VU033809.D
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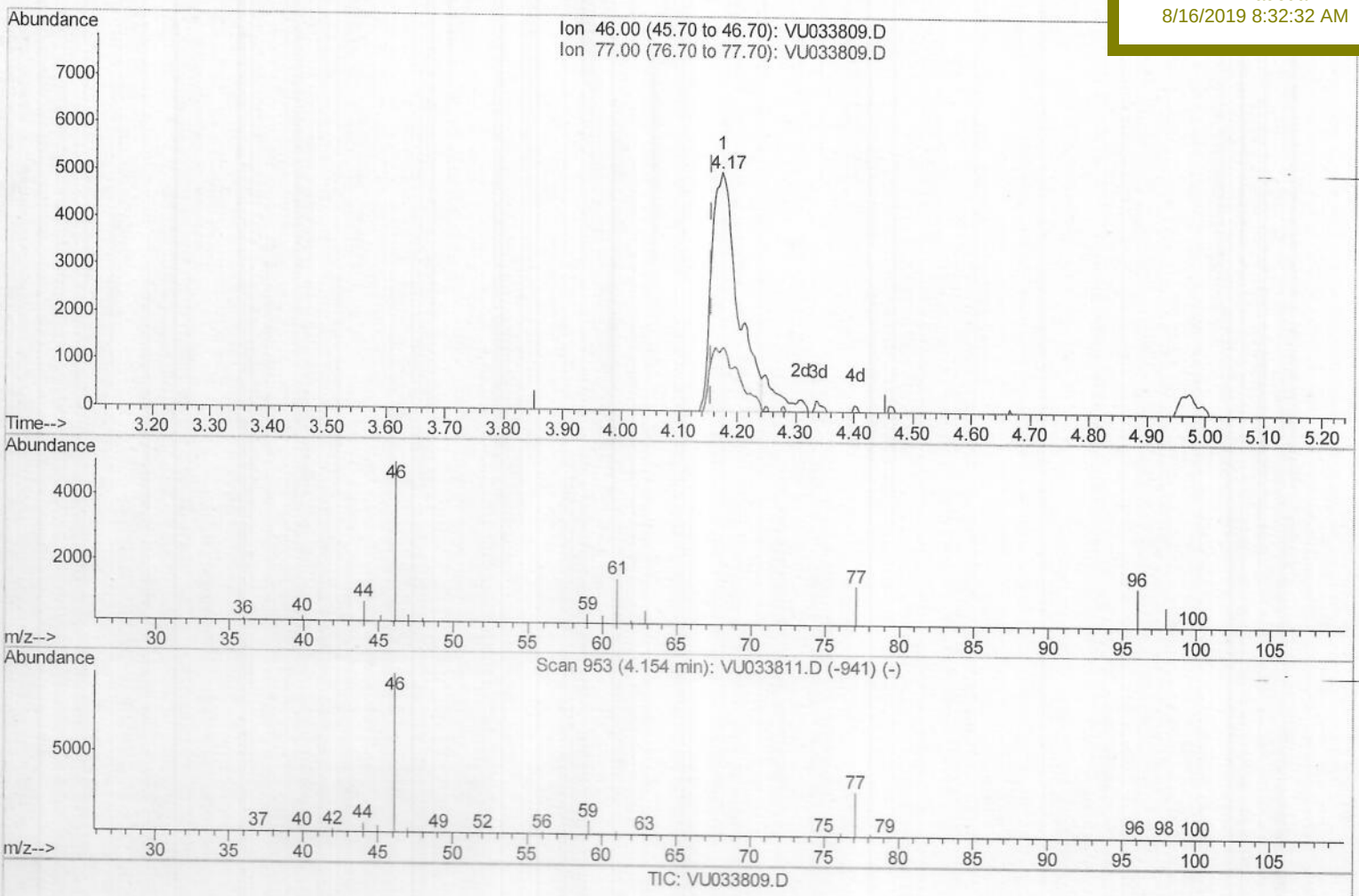
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:47:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



TIC: VU033809.D

(21) 2-Butanone-d5 (S)

4.174min (+0.019) 8.42ug/L m) MD 08/26/19

response 15765

Ion	Exp%	Act%
46.00	100	100
77.00	24.60	9.34#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

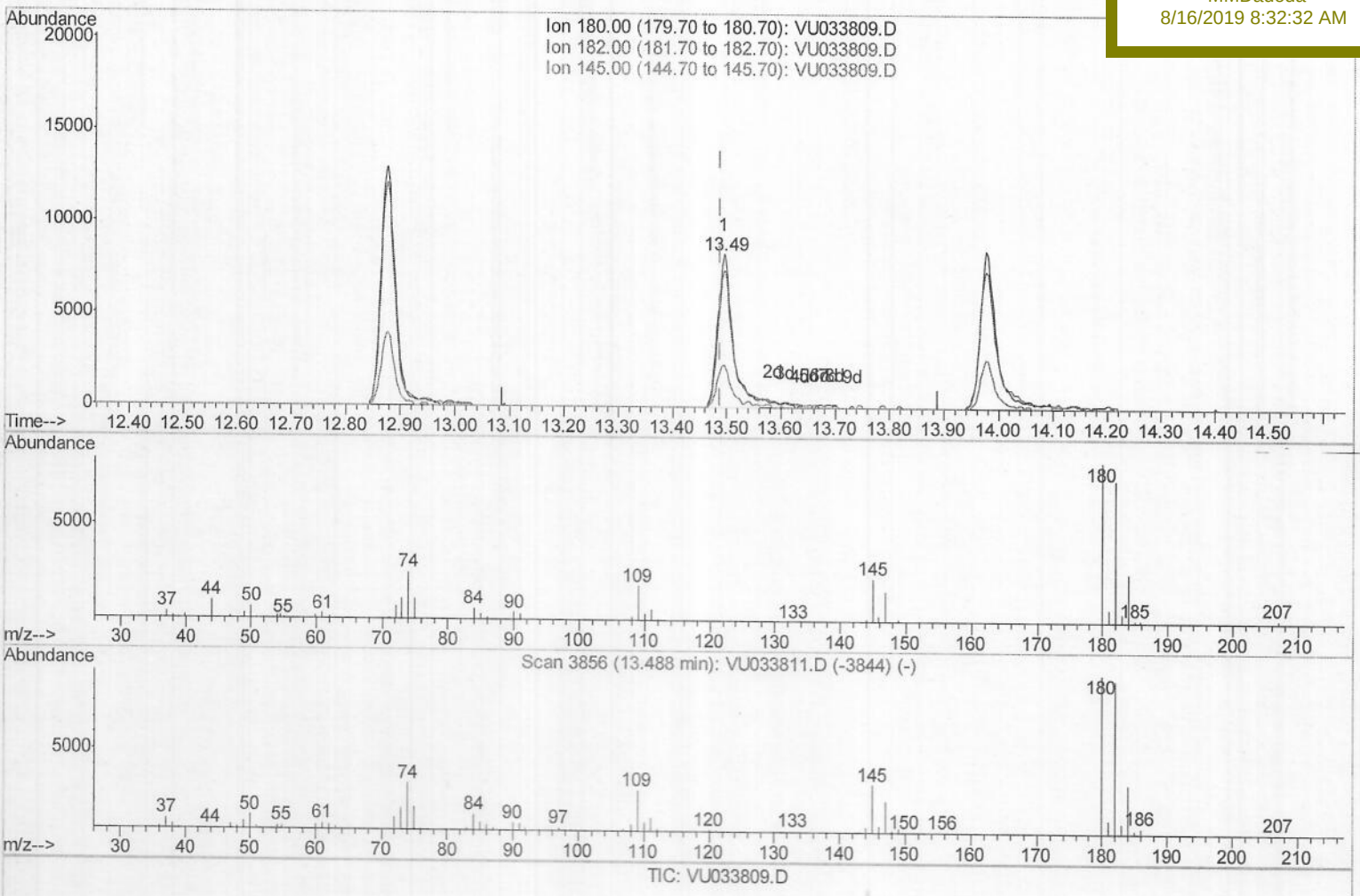
Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



TIC: VU033809.D

(68) 1,2,4-trichlorobenzene (T)

13.495min (+0.006) 3.68ug/L

response 16180

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	93.05
145.00	29.80	26.16
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

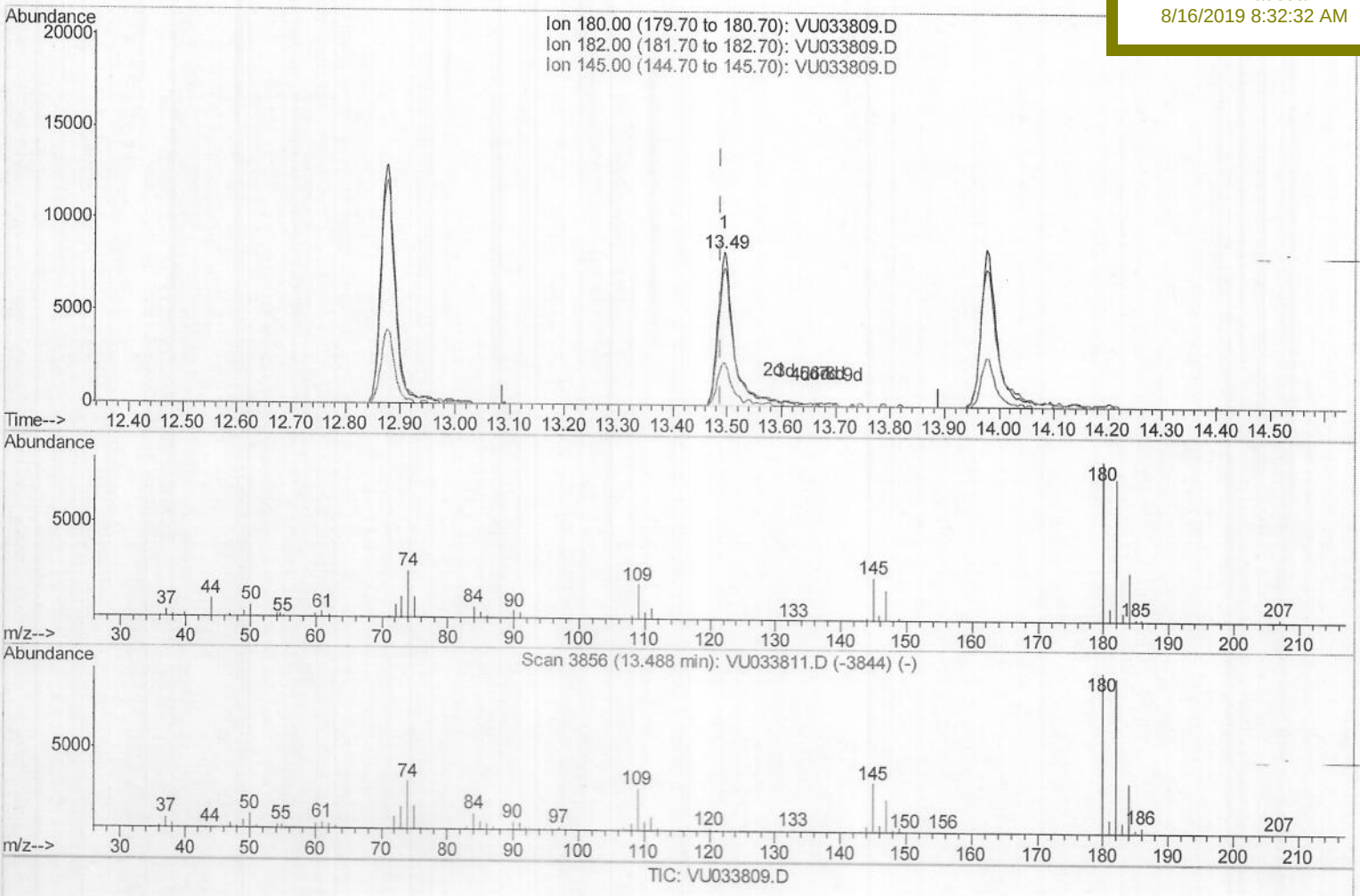
Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



TIC: VU033809.D

(68) 1,2,4-trichlorobenzene (T)

13.495min (+0.006) 3.87ug/L m) MD08/26/19

response 17014

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	88.49
145.00	29.80	24.87
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

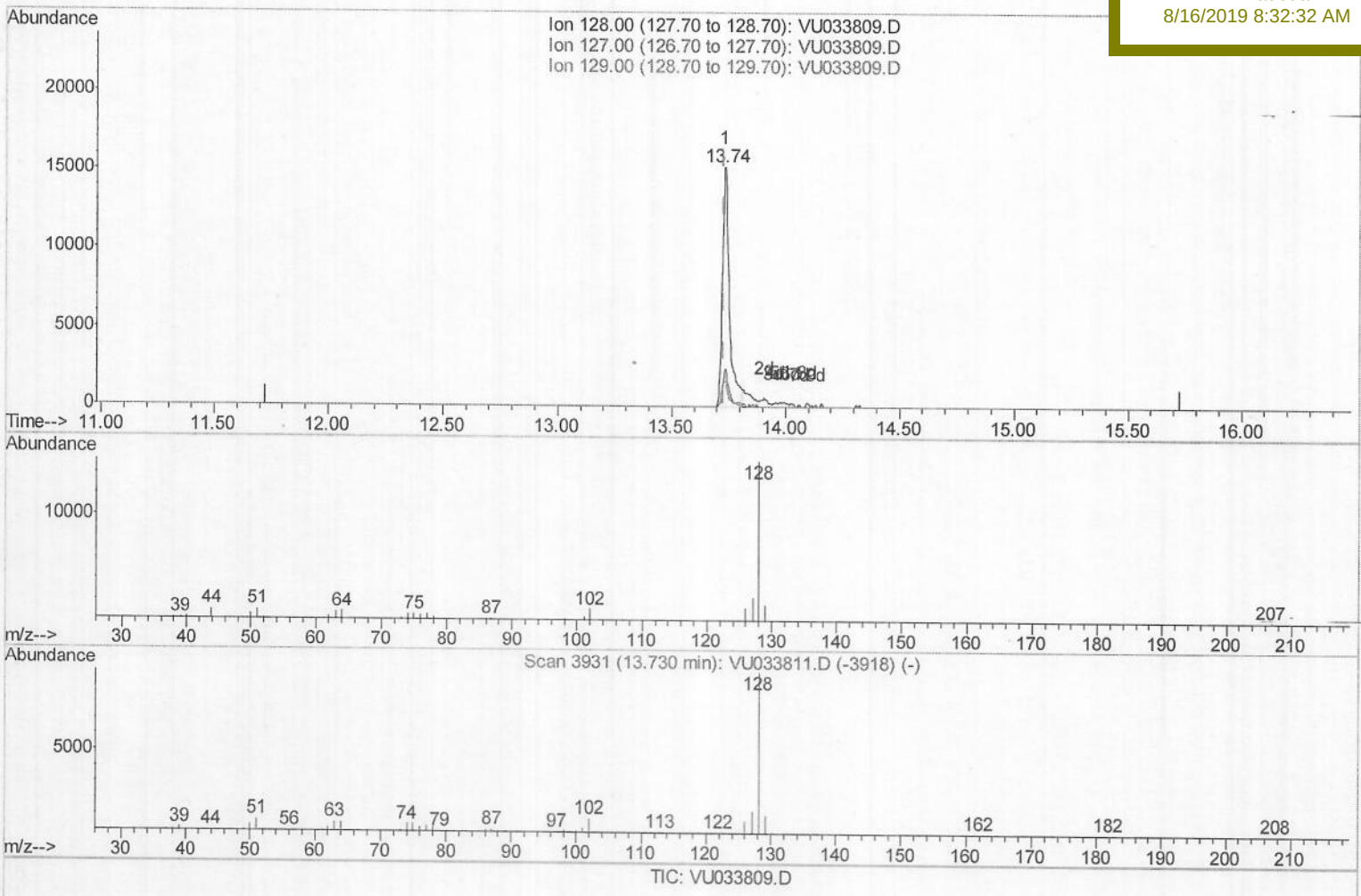
Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



(69) Naphthalene

13.736min (+0.006) 2.44ug/L

response 31880

Ion	Exp%	Act%
128.00	100	100
127.00	13.40	13.24
129.00	10.70	8.84
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

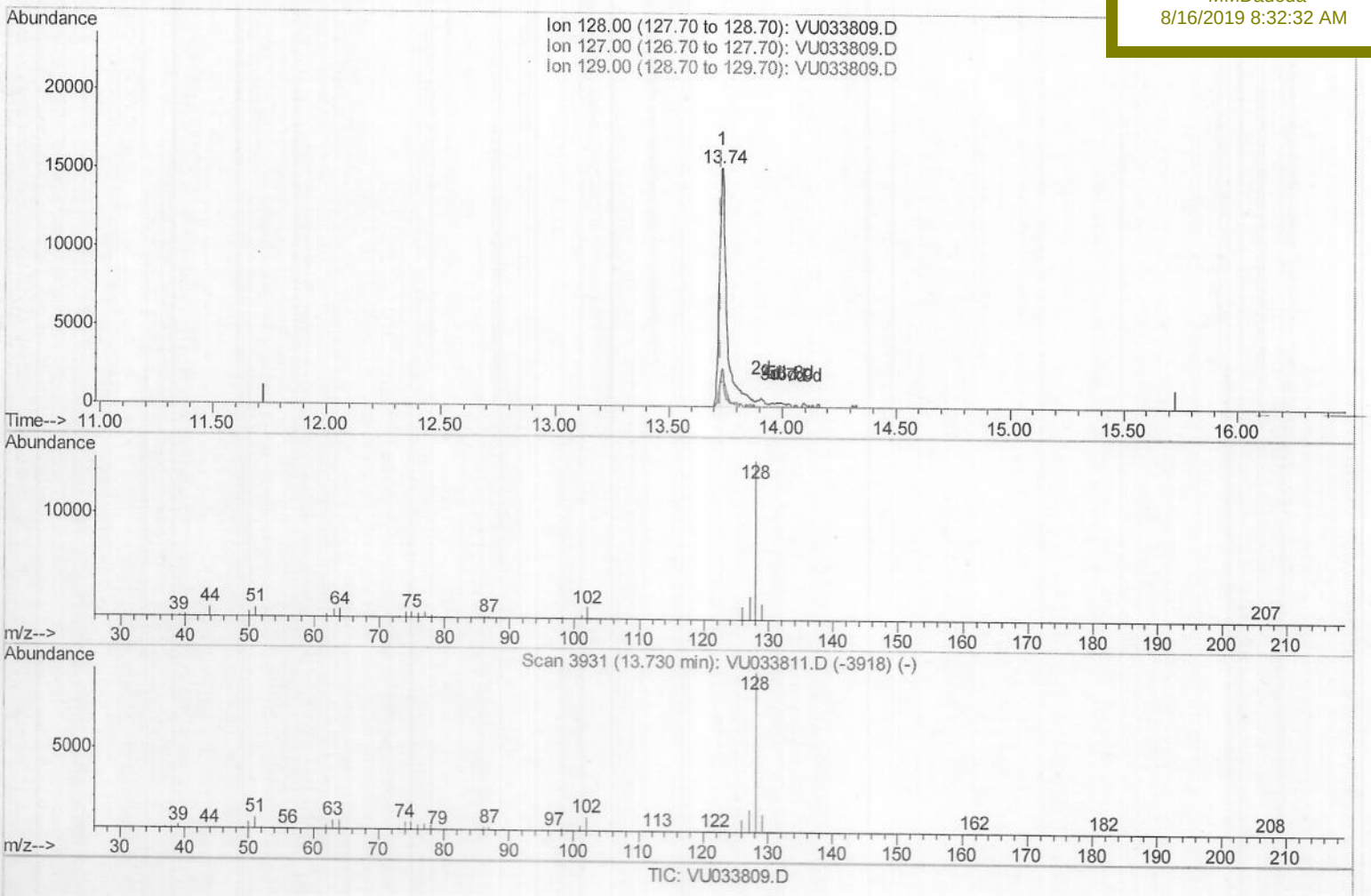
Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



(69) Naphthalene

13.736min (+0.006) 2.63ug/L m JMD08|26|19

response 34358

Ion	Exp%	Act%
128.00	100	100
127.00	13.40	12.29
129.00	10.70	8.20#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
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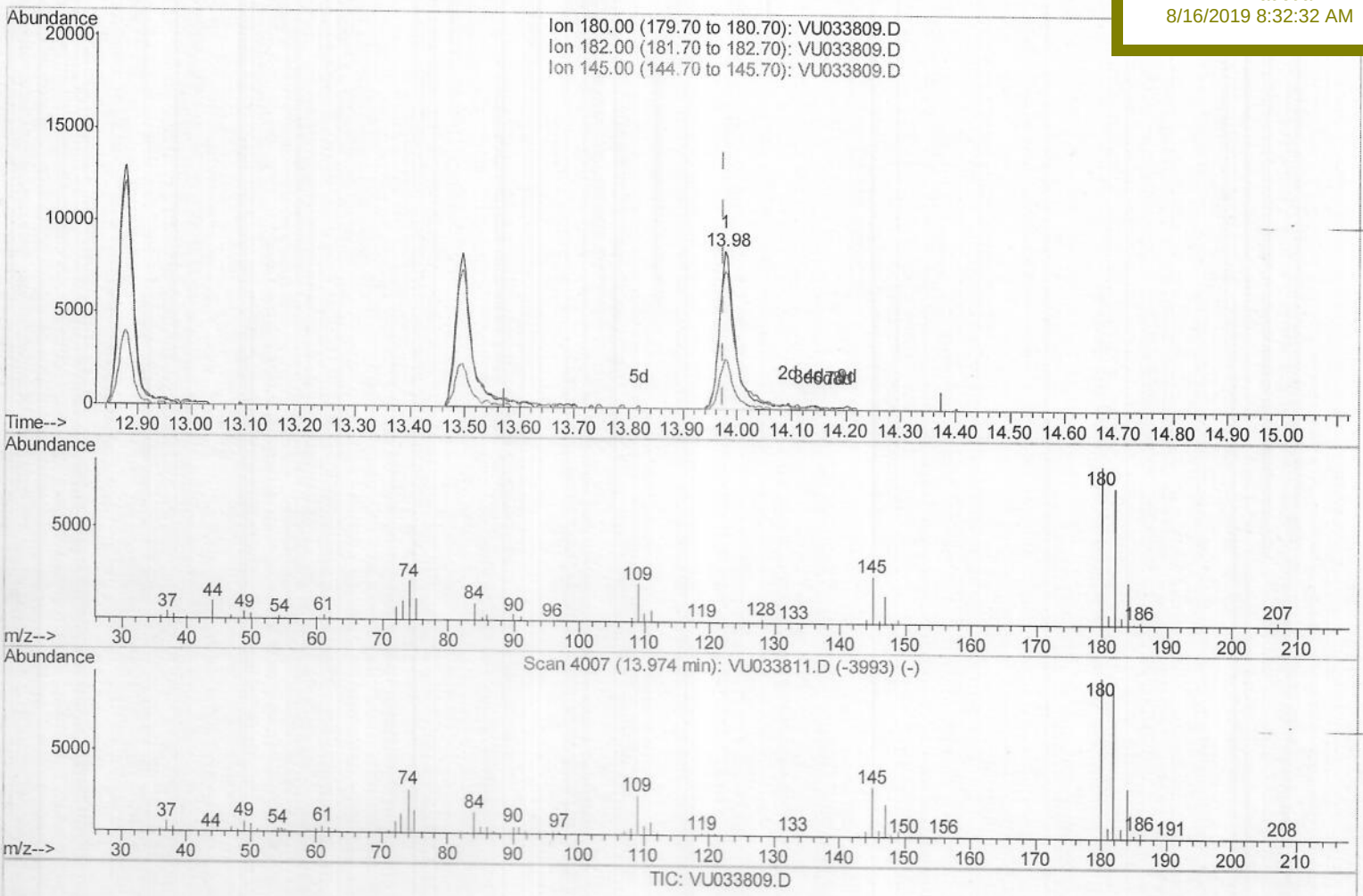


TIC: VU033809.D

(70) 1,2,3-Trichlorobenzene (T)

13.977min (+0.003) 3.57ug/L

response 16473

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	91.12
145.00	30.60	29.85
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

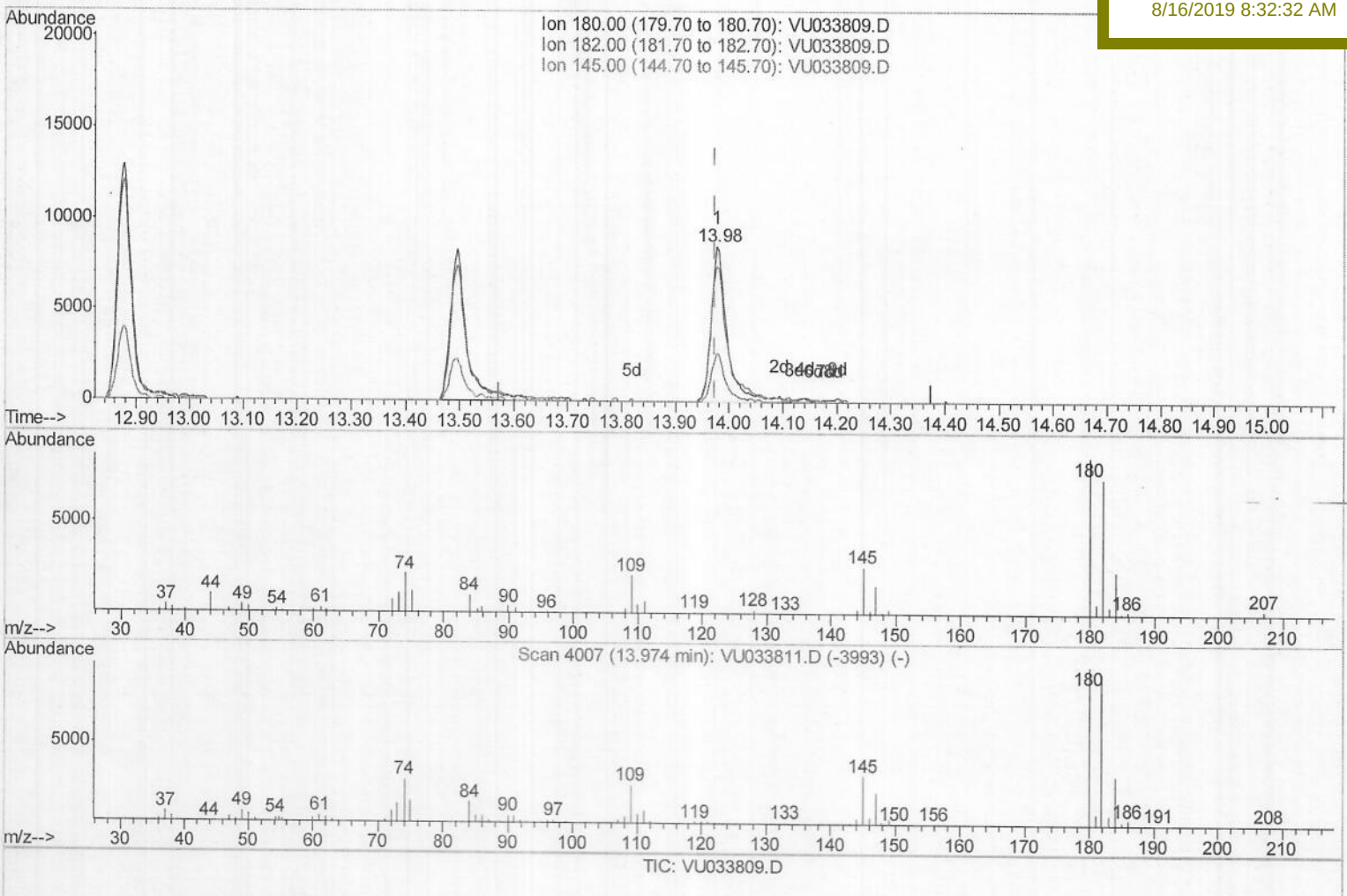
Quantitation Report (Qedit)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:56:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00534

Manual Integrations APPROVED
MMDadoda
8/16/2019 8:32:32 AM



TIC: VU033809.D

(70) 1,2,3-Trichlorobenzene (T)

13.977min (+0.003) 3.74ug/L m) MD 08/26/19

response 17264

Ion	Exp%	Act%
180.00	100	100
182.00	94.90	86.95
145.00	30.60	28.48
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

Quantitation Report (QT Reviewed)

Data File : VU033809.D
Acq On : 15 Aug 2019 14:40
Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:59:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTD00534

Manual Integrations APPROVED
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Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	407767	50.00	ug/L		0.00
28) Chlorobenzene-d5	9.07	117	414966	50.00	ug/L		0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	204254	50.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	1.39	65	19391	6.20	ug/L		0.00
7) Chloroethane-d5	1.67	69	16544	5.32	ug/L		0.00
11) 1,1-Dichloroethene-d2	2.26	63	31821	6.08	ug/L		0.00
21) 2-Butanone-d5	4.17	46	15765m	8.42	ug/L		0.02
24) Chloroform-d	4.62	84	30835	6.54	ug/L		0.00
26) 1,2-Dichloroethane-d4	5.29	65	19317	6.53	ug/L		0.00
32) Benzene-d6	5.32	84	54892	5.42	ug/L		0.00
36) 1,2-Dichloropropane-d6	6.31	67	18807	5.99	ug/L		0.00
41) Toluene-d8	7.55	98	47500	4.98	ug/L		0.00
43) trans-1,3-Dichloropropene-	7.84	79	7930	5.09	ug/L		0.00
47) 2-Hexanone-d5	8.30	63	9273	6.09	ug/L		0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	25296	5.51	ug/L		0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	20598	5.83	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.20	85	21454	6.749	ug/L		95
3) Chloromethane	1.32	50	22112	6.754	ug/L		96
5) Vinyl chloride	1.39	62	24308	6.660	ug/L		98
6) Bromomethane	1.62	94	15789	5.268	ug/L		99
8) Chloroethane	1.69	64	15186	5.646	ug/L		98
9) Trichlorofluoromethane	1.87	101	33375	6.811	ug/L		95
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	15284	6.040	ug/L		95
12) 1,1-Dichloroethene	2.27	96	14589	5.866	ug/L		94
13) Acetone	2.31	43	21507	11.395	ug/L		97
14) Carbon disulfide	2.46	76	46991	6.578	ug/L		97
15) Methyl Acetate	2.60	43	16005	5.108	ug/L	#	73
16) Methylene chloride	2.68	84	17690	6.179	ug/L		97
17) trans-1,2-Dichloroethene	2.96	96	15406	5.836	ug/L		94
18) Methyl tert-butyl Ether	2.98	73	39815	4.693	ug/L		98
19) 1,1-Dichloroethane	3.42	63	29456	5.882	ug/L		99
20) cis-1,2-Dichloroethene	4.21	96	15230	5.085	ug/L		97
22) 2-Butanone	4.25	43	18619	8.033	ug/L		77
23) Bromochloromethane	4.52	128	8880	5.727	ug/L		93
25) Chloroform	4.65	83	31020	5.945	ug/L		95
27) 1,2-Dichloroethane	5.39	62	22306	5.603	ug/L		97
29) Cyclohexane	4.97	56	18351	4.136	ug/L		97
30) 1,1,1-Trichloroethane	4.89	97	25227	5.489	ug/L		98
31) Carbon tetrachloride	5.11	117	23298	5.621	ug/L		98
33) Benzene	5.37	78	59080	4.994	ug/L		100
34) Trichloroethene	6.17	95	16737	5.370	ug/L		96
35) Methylcyclohexane	6.40	83	21924	4.650	ug/L		97
37) 1,2-Dichloropropane	6.41	63	16664	5.279	ug/L	#	96
38) Bromodichloromethane	6.74	83	22445	5.542	ug/L		95
39) cis-1,3-Dichloropropene	7.25	75	20334	4.093	ug/L		96
40) 4-Methyl-2-pentanone	7.44	43	34797	7.708	ug/L		96

MD 08/26/19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081619\

Quantitation Report (QT Reviewed)

Data File : VU033809.D
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Operator : JC/SP
Sample : VSTD00534
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 16 01:59:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Instrument : MSVOA_U
ClientSampleId : VSTD00534

Manual Integrations APPROVED
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8/16/2019 8:32:32 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) Toluene	7.62	91	58674	4.602	ug/L		100
44) trans-1,3-Dichloropropene	7.86	75	20676	4.681	ug/L		89
45) 1,1,2-Trichloroethane	8.05	97	16216	5.306	ug/L		98
46) Tetrachloroethene	8.21	164	13572	5.335	ug/L		98
48) 2-Hexanone	8.35	43	27169	7.616	ug/L	#	91
49) Dibromochloromethane	8.46	129	17552	5.105	ug/L		98
50) 1,2-Dibromoethane	8.57	107	16841	5.006	ug/L	#	99
51) Chlorobenzene	9.10	112	43571	5.225	ug/L		96
52) Ethylbenzene	9.23	91	60660	4.377	ug/L		99
53) m,p-Xylene	9.36	106	21629	4.093	ug/L		98
54) o-xylene	9.77	106	20840	3.995	ug/L		96
55) Styrene	9.78	104	32845	3.734	ug/L		98
56) Isopropylbenzene	10.15	105	52919	3.879	ug/L		98
58) 1,1,2,2-Tetrachloroethane	10.44	83	25272	4.766	ug/L		99
59) 1,2,3-Trichloropropane	10.48	75	20404	4.848	ug/L		98
61) Bromoform	9.94	173	12426	5.018	ug/L		97
62) 1,3-Dichlorobenzene	11.40	146	31183	4.967	ug/L		94
63) 1,4-Dichlorobenzene	11.49	146	34458	5.414	ug/L		96
65) 1,2-Dichlorobenzene	11.86	146	31173	5.022	ug/L		95
66) 1,2-Dibromo-3-chloropropan	12.65	75	4998	4.382	ug/L		96
67) 1,3,5-Trichlorobenzene	12.88	180	23449	4.740	ug/L		97
68) 1,2,4-trichlorobenzene	13.49	180	17014m	3.868	ug/L		
69) Naphthalene	13.74	128	34358m	2.632	ug/L		
70) 1,2,3-Trichlorobenzene	13.98	180	17264m	3.744	ug/L		

MD 08/26/19

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