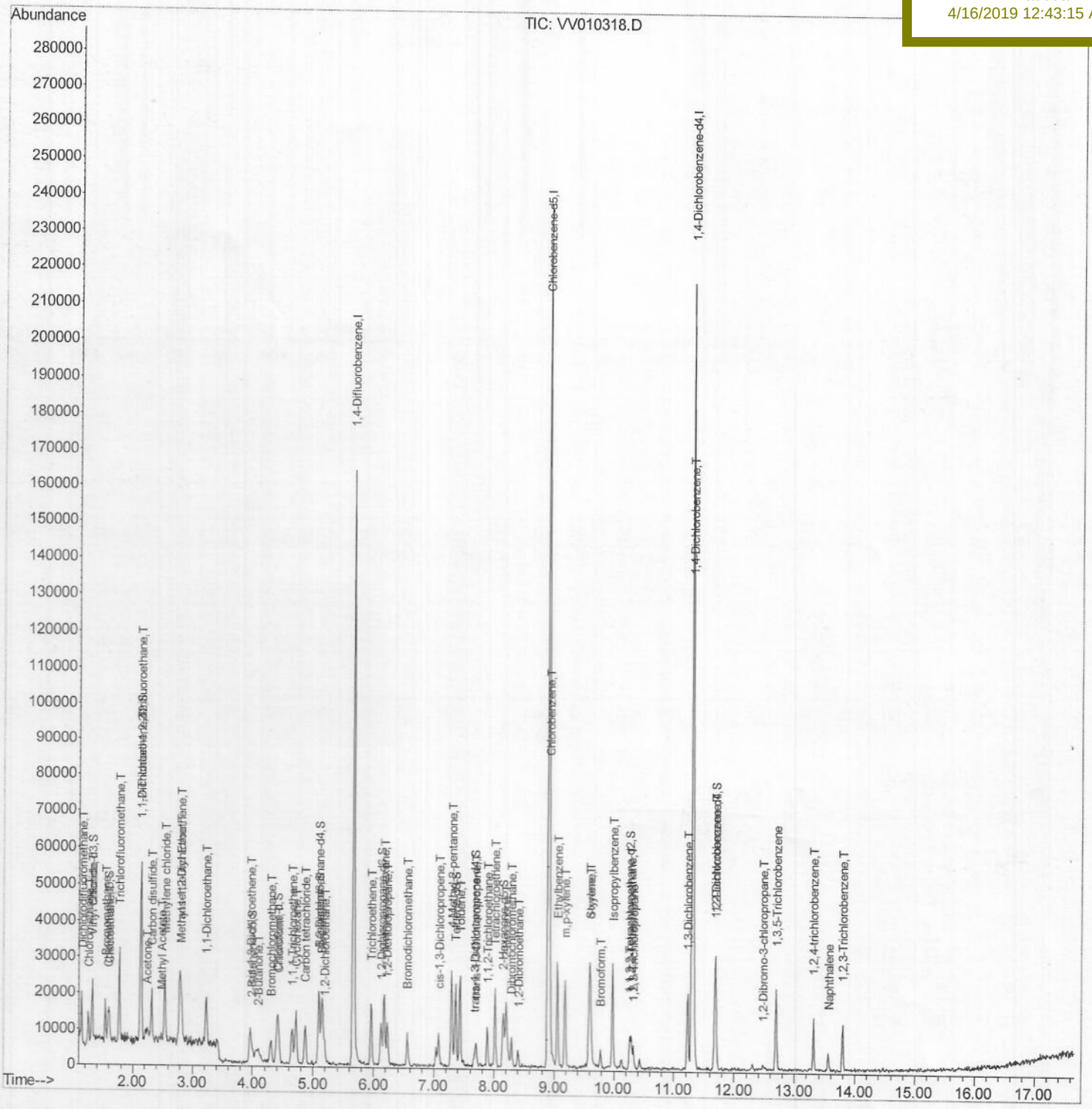
Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 13:05:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM



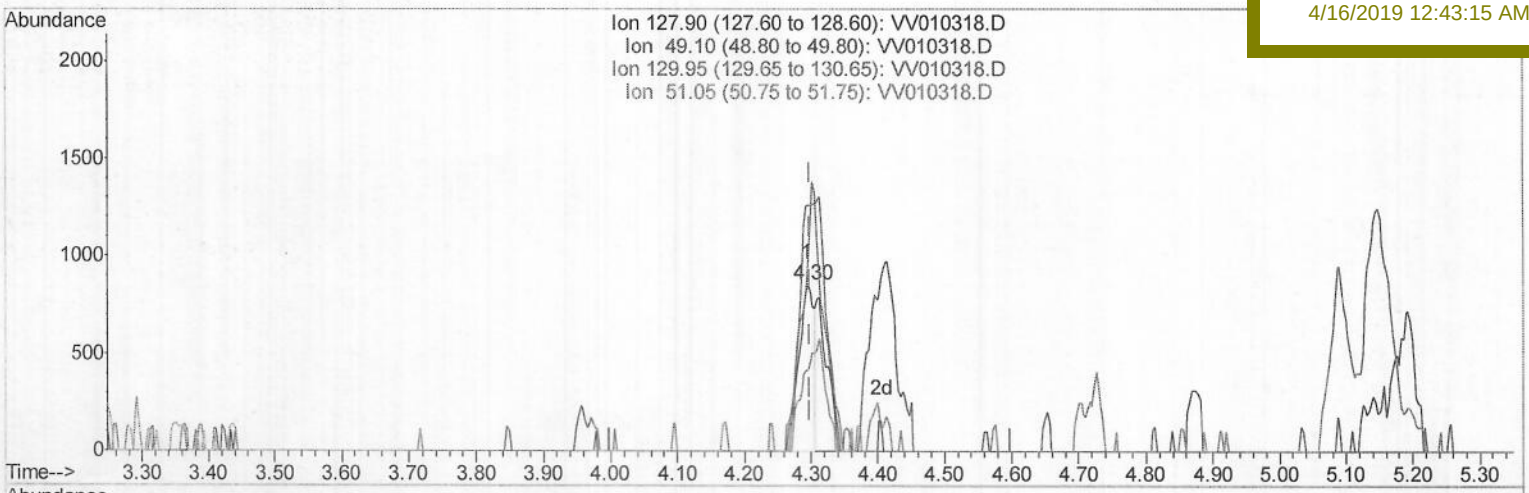
Quantitation Report (Qedit)

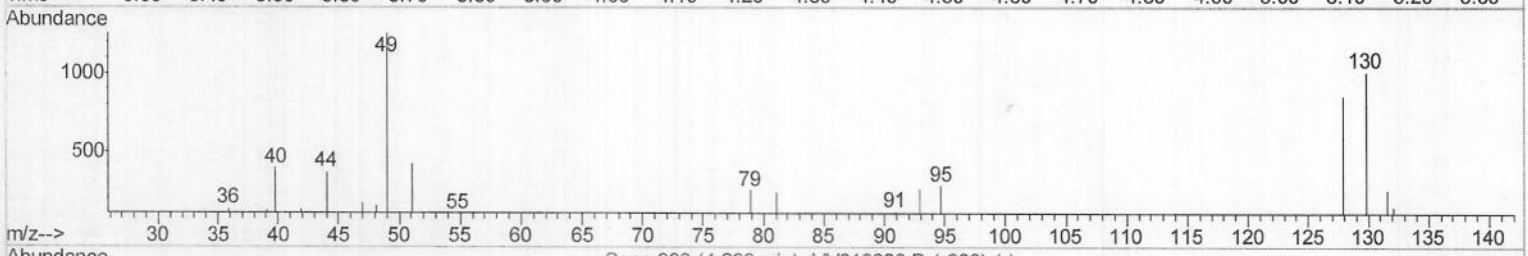
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

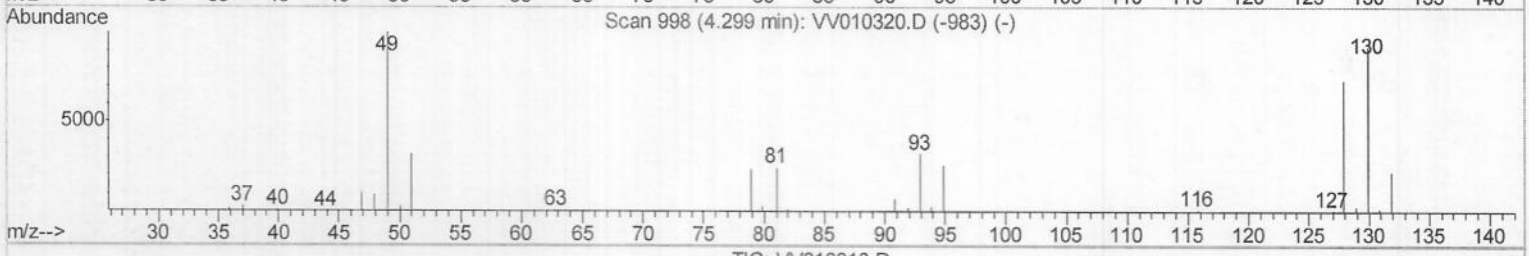
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(23) Bromochloromethane (T)

4.296min (-0.003) 0.34ug/L

response 1356

Ion	Exp%	Act%
127.90	100	100
49.10	157.70	147.60
129.95	127.30	118.05
51.05	49.60	49.12

Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

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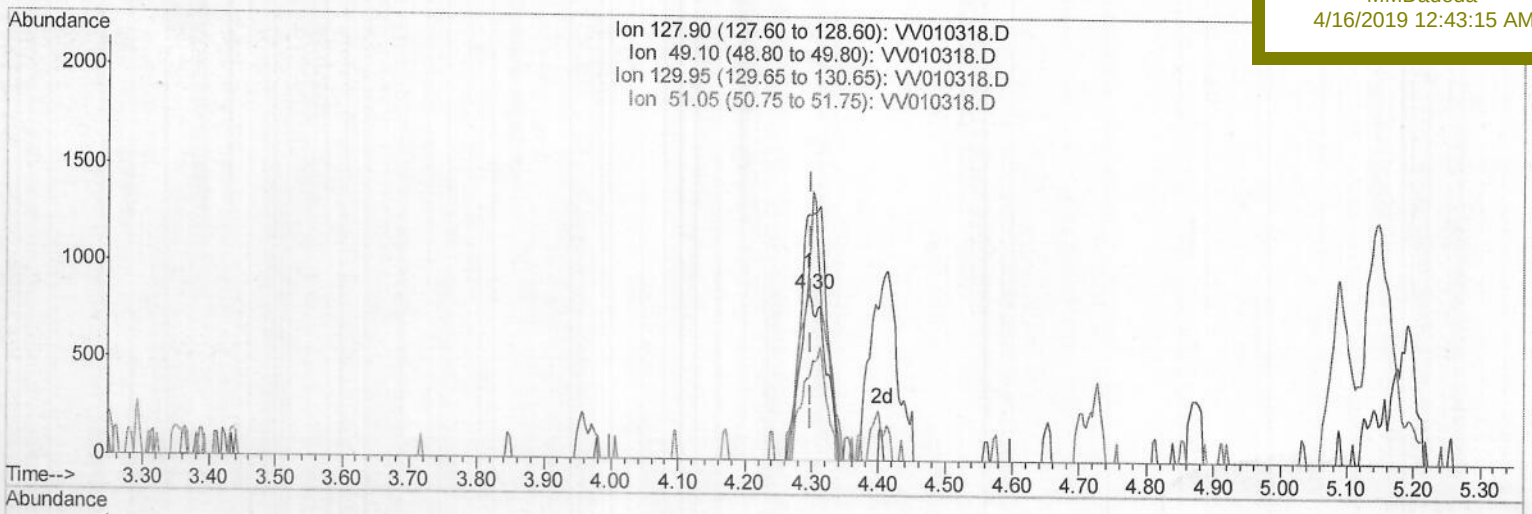
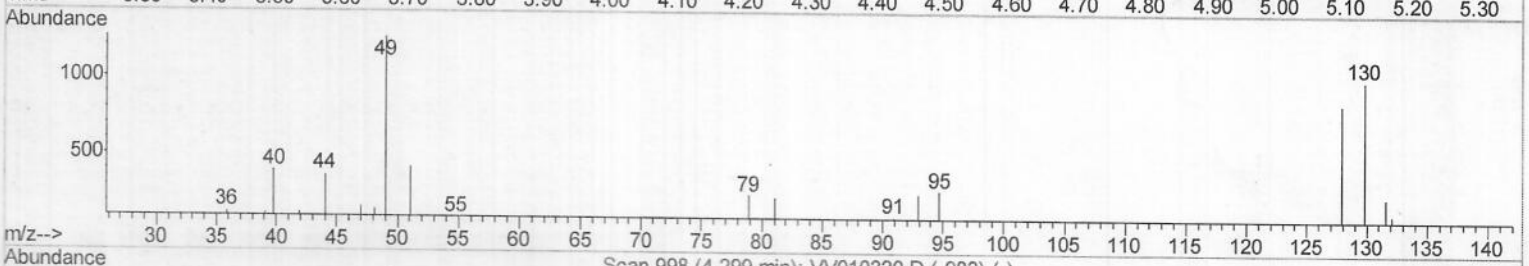
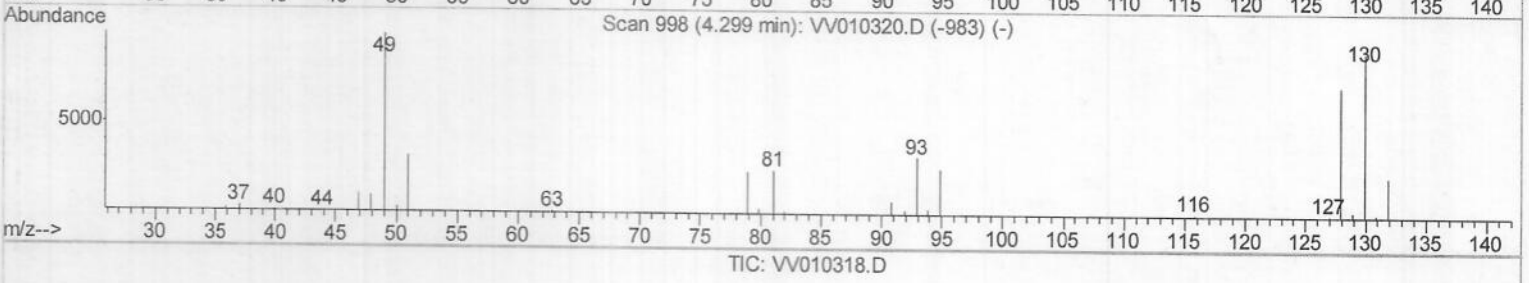
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(23) Bromochloromethane (T)
4.296min (-0.003) 0.56ug/L m
response 2272

Ion	Exp%	Act%
127.90	100	100
49.10	157.70	147.60
129.95	127.30	118.05
51.05	49.60	49.12

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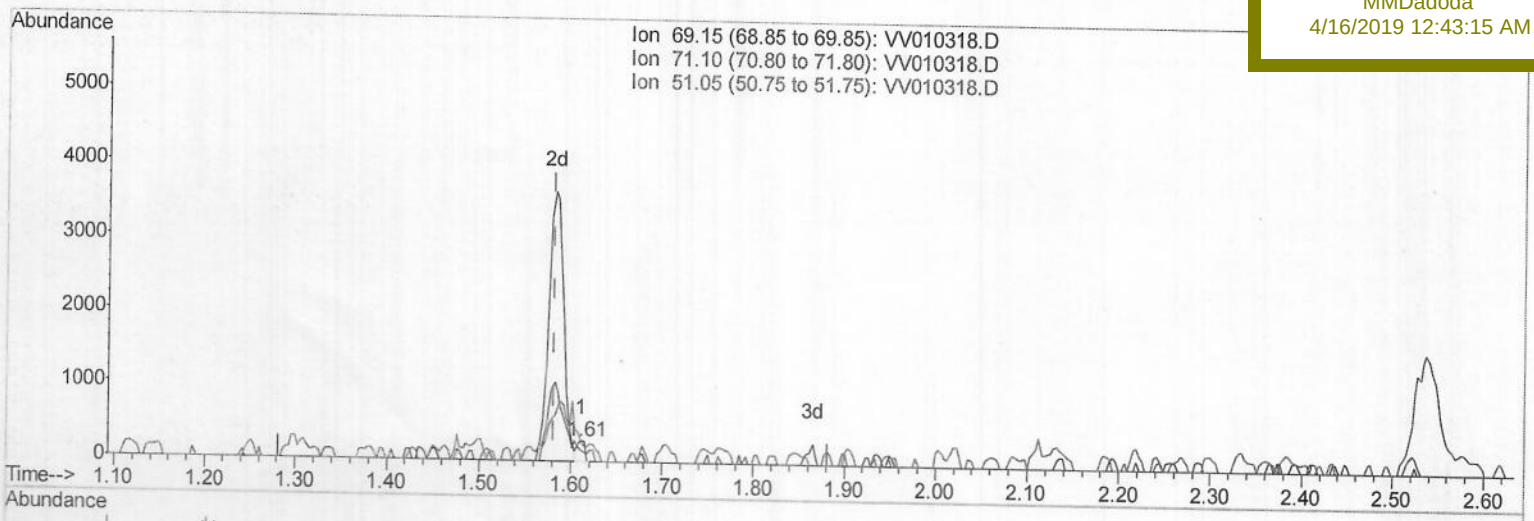
Quantitation Report (Qedit)

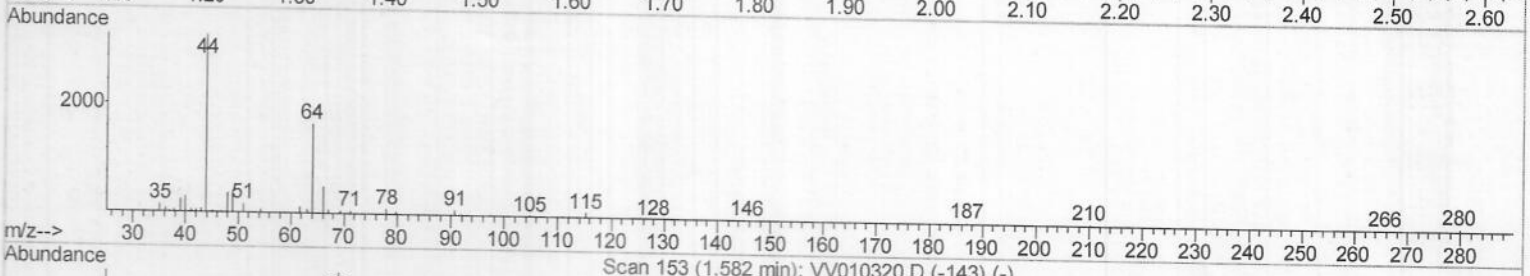
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

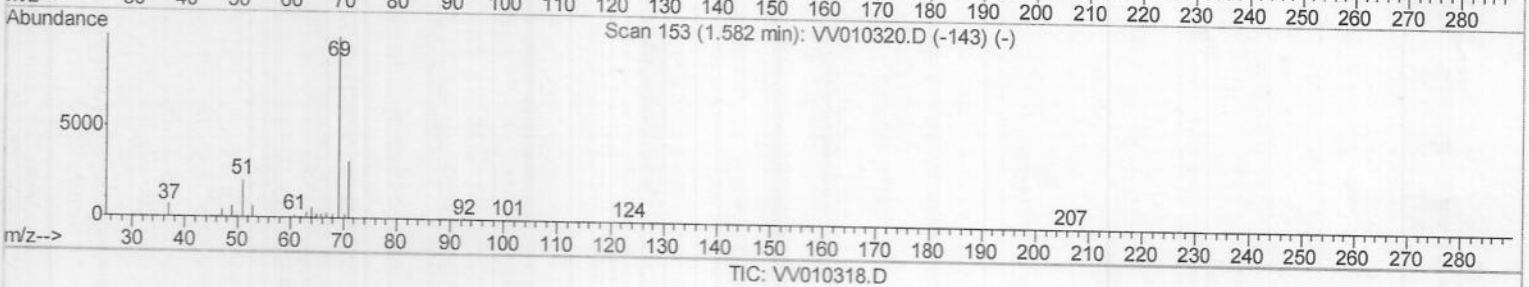
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(7) Chloroethane-d5 (S)

1.611min (+0.029) 0.01ug/L

response 149

Ion	Exp%	Act%
69.15	100	100
71.10	31.60	34.90
51.05	31.30	30.87
0.00	0.00	0.00

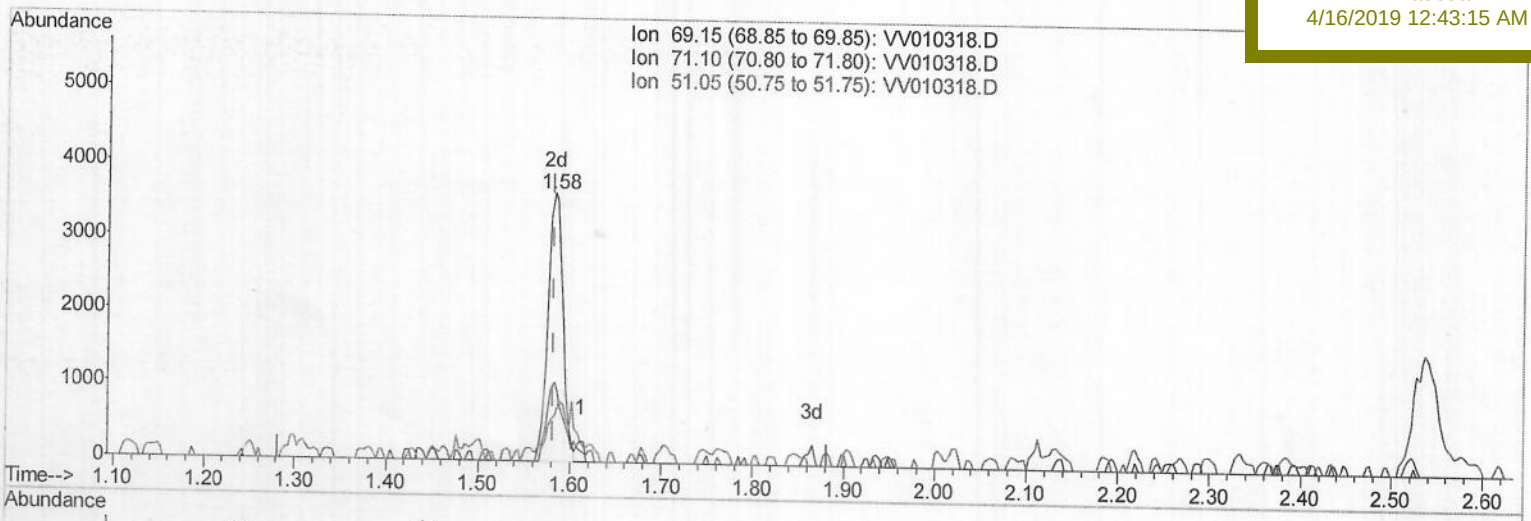
Quantitation Report (Qedit)

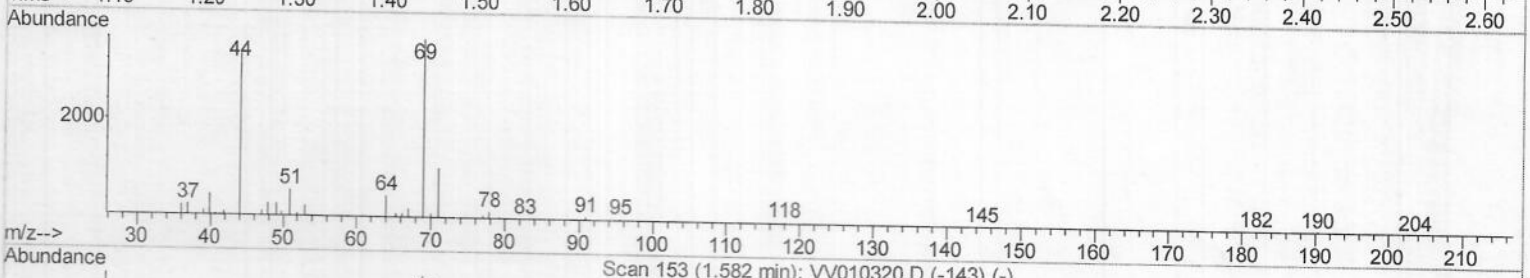
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

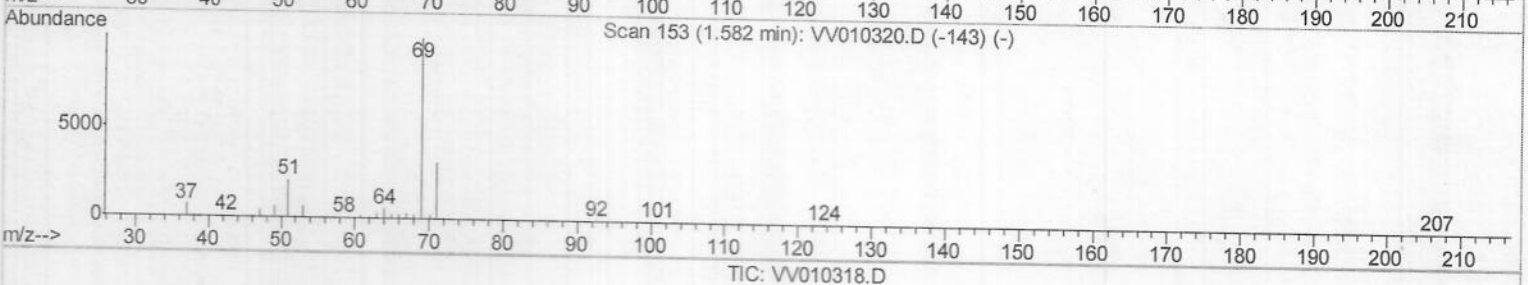
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(7) Chloroethane-d5 (S)

1.582min (-0.000) 0.27ug/L m

response 4125

Ion	Exp%	Act%
69.15	100	100
71.10	31.60	1.26#
51.05	31.30	1.12#
0.00	0.00	0.00

M.D. 04/16/19

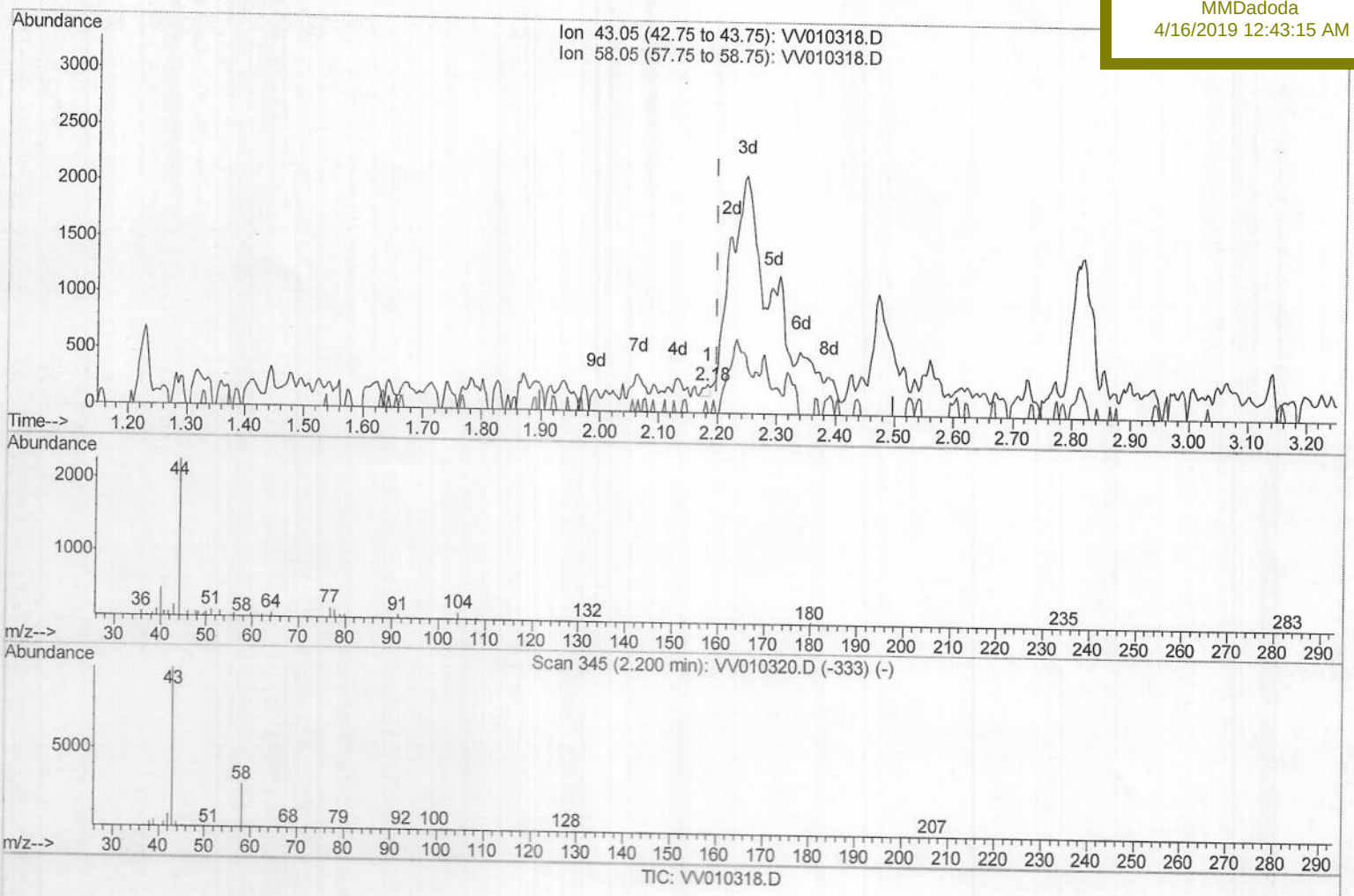
Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM



TIC: VV010318.D

(13) Acetone (T)

2.183min (-0.016) 0.03ug/L

response 82

Ion	Exp%	Act%
43.05	100	100
58.05	11.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

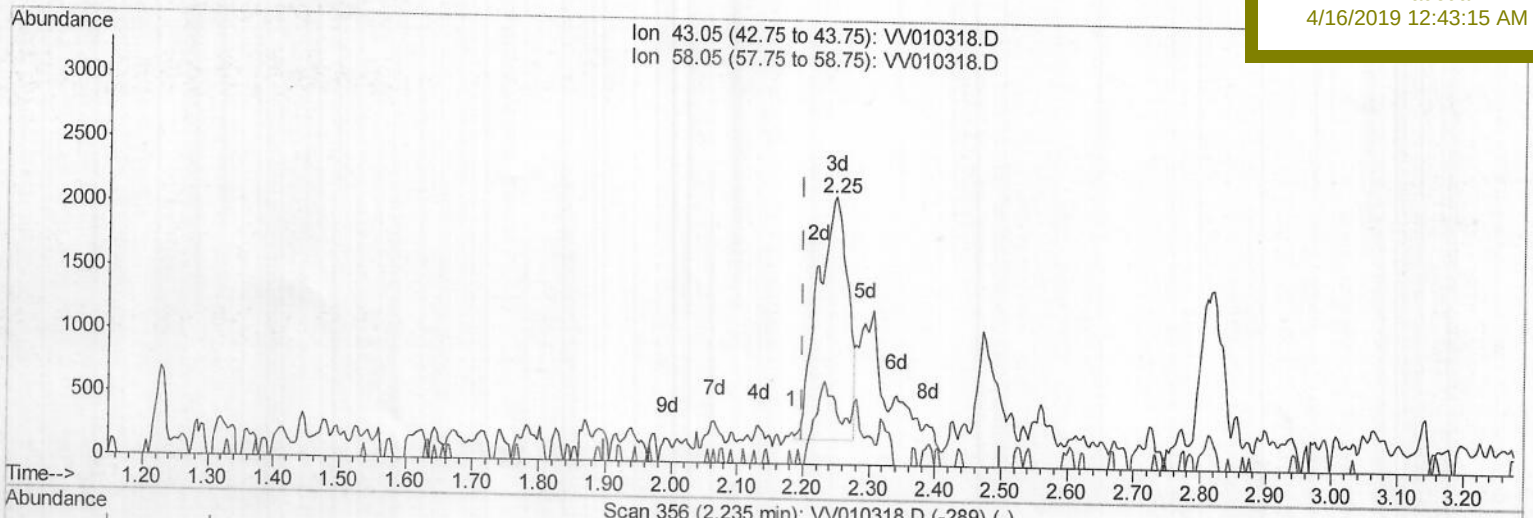
Quantitation Report (Qedit)

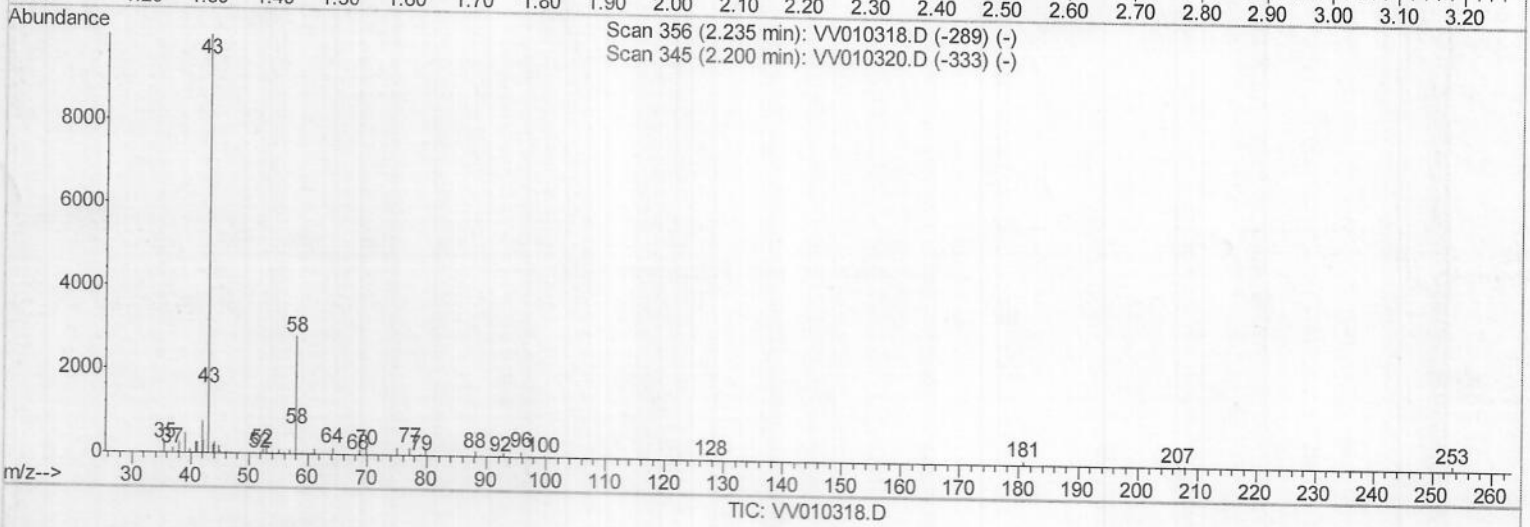
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM





TIC: VV010318.D

(13) Acetone (T)

2.248min (+0.048) 2.30ug/L m

response 5994

Ion	Exp%	Act%
43.05	100	100
58.05	11.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

M.D. 04/16/19

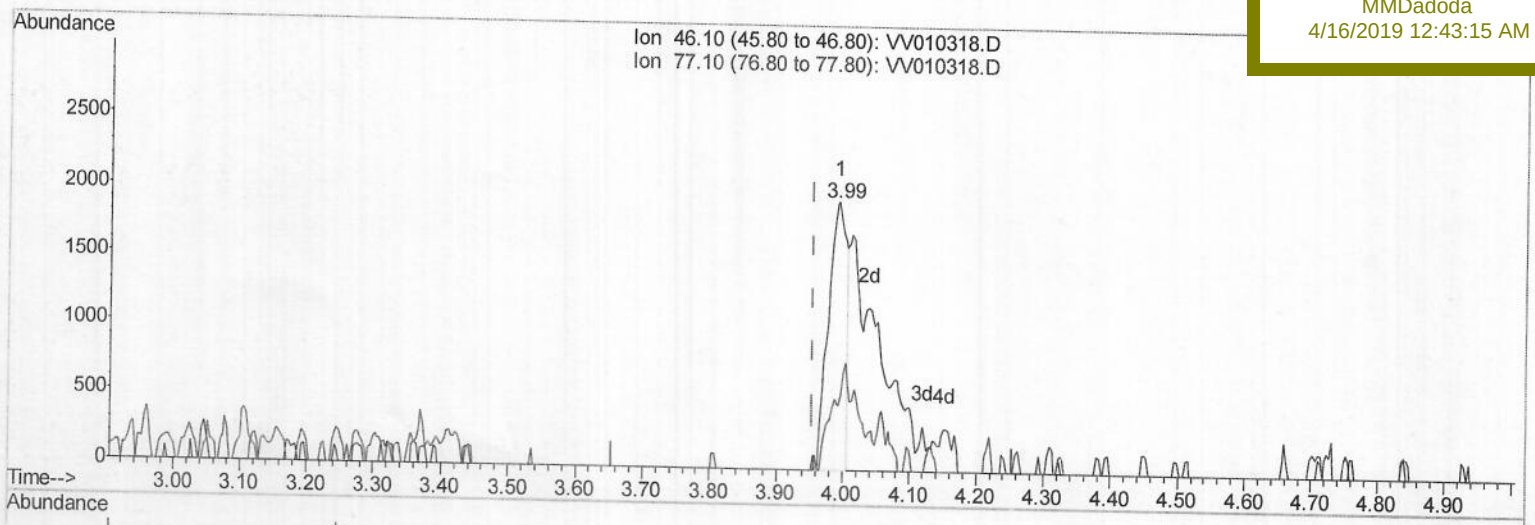
Quantitation Report (Qedit)

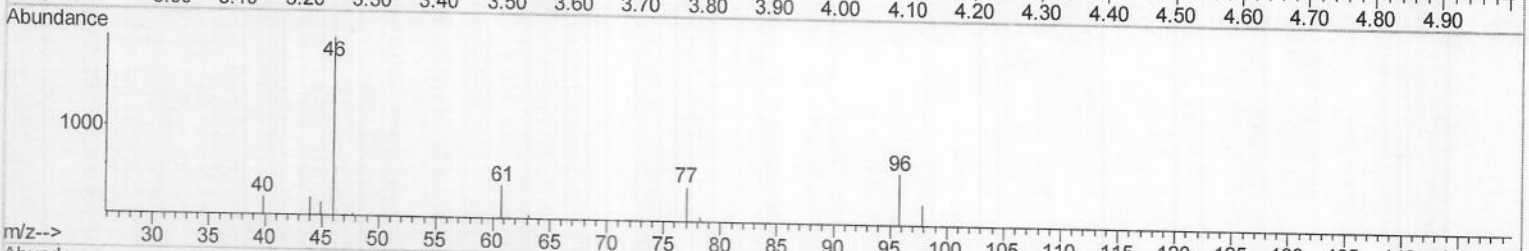
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

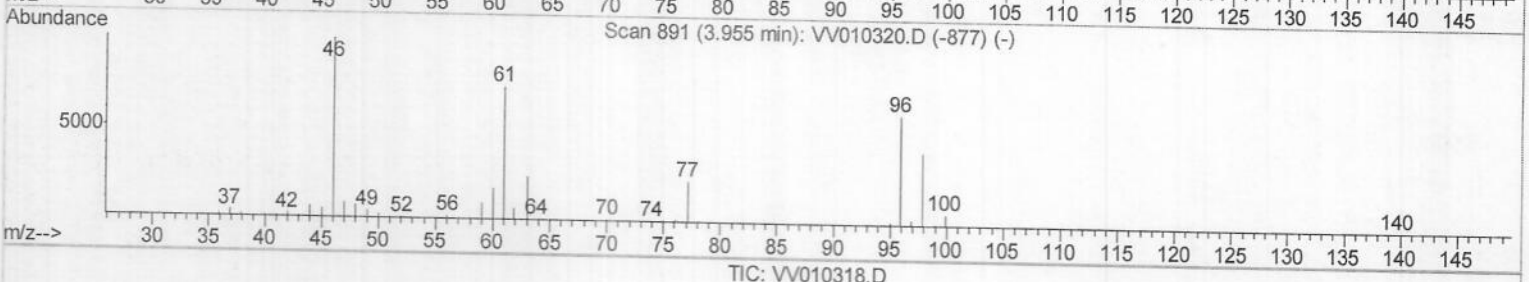
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(20) 2-Butanone-d5 (S)

3.994min (+0.039) 1.84ug/L

response 3693

Ion	Exp%	Act%
46.10	100	100
77.10	12.20	35.93#
0.00	0.00	0.00
0.00	0.00	0.00

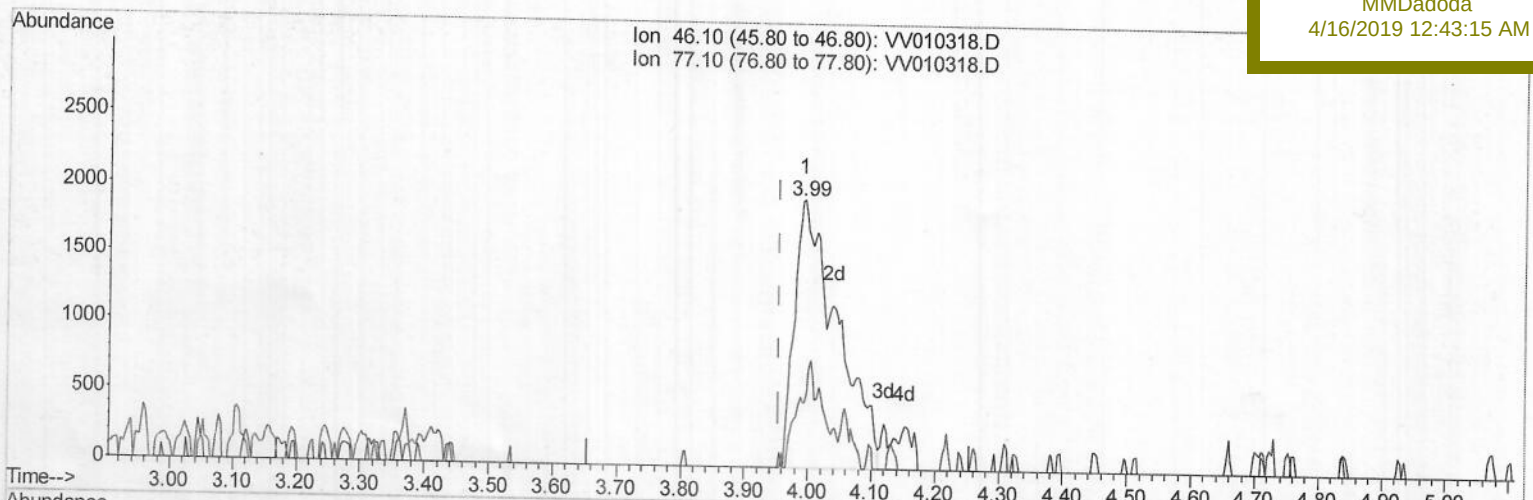
Quantitation Report (Qedit)

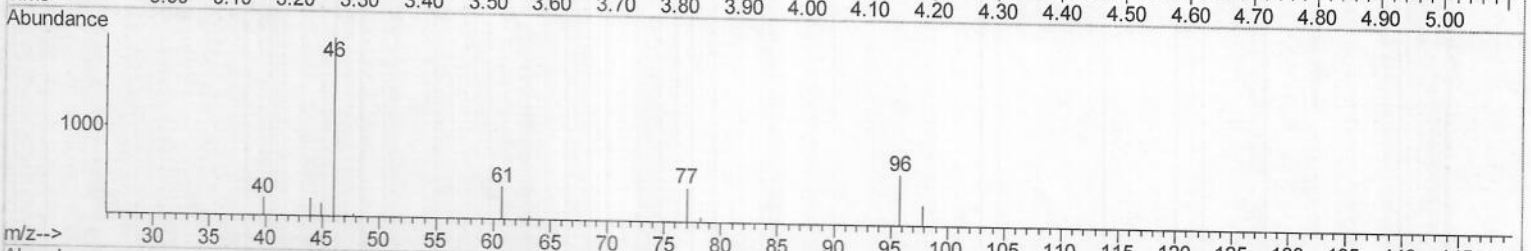
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

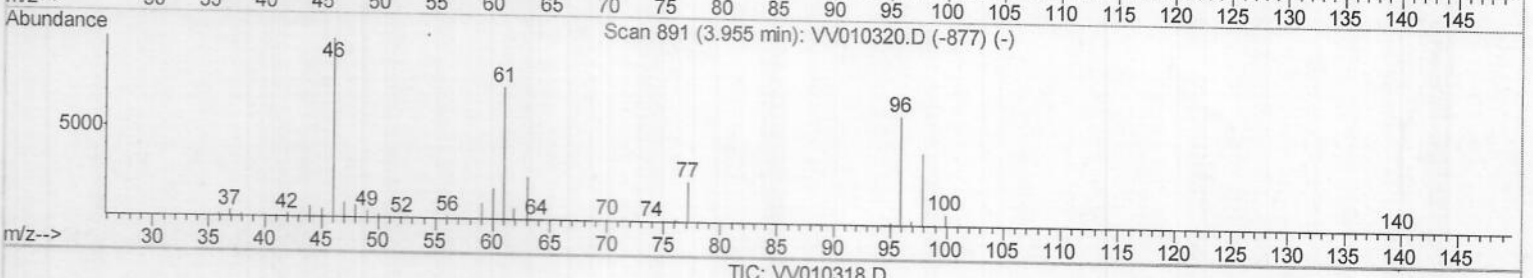
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(20) 2-Butanone-d5 (S)

3.994min (+0.039) 4.43ug/L m

response 8924

Ion	Exp%	Act%
46.10	100	100
77.10	12.20	14.87
0.00	0.00	0.00
0.00	0.00	0.00

S M.D. 04/16/19

Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
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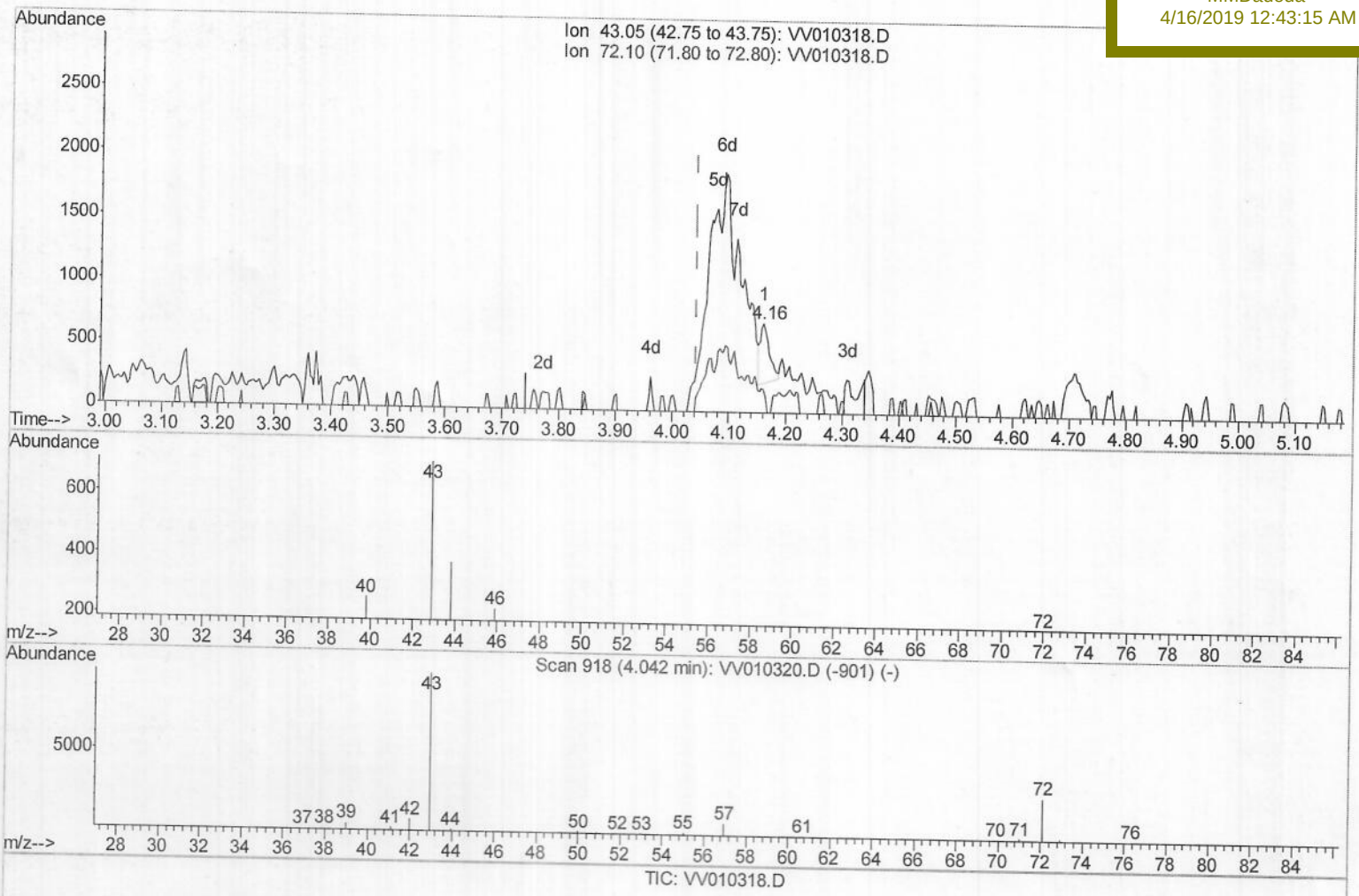
Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM



TIC: VV010318.D

(21) 2-Butanone (T)

4.161min (+0.119) 0.25ug/L

response 516

Ion	Exp%	Act%
43.05	100	100
72.10	29.60	37.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 12:58:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
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Instrument :
MSVOA_V
ClientSampleId :
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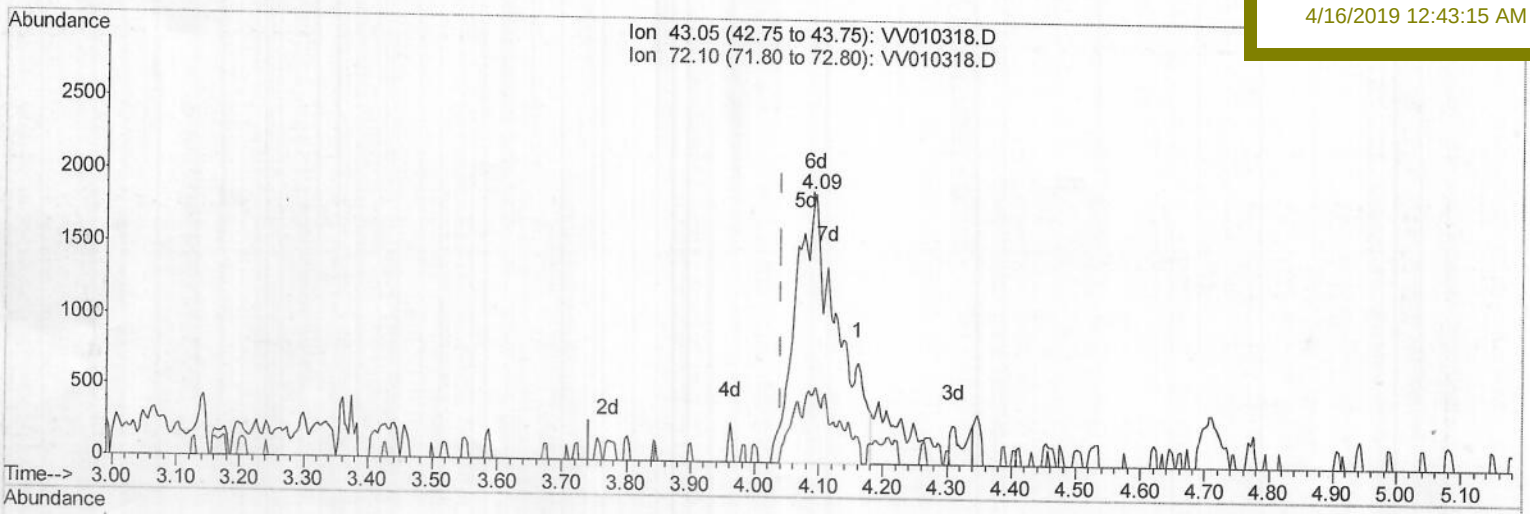
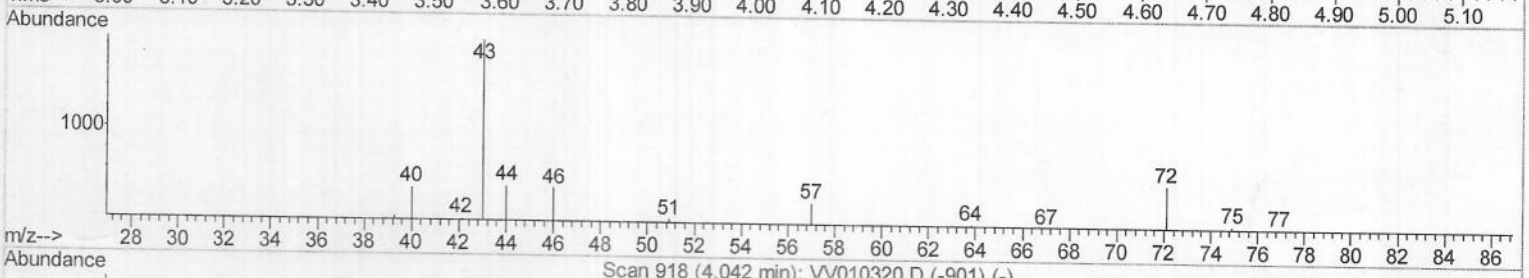
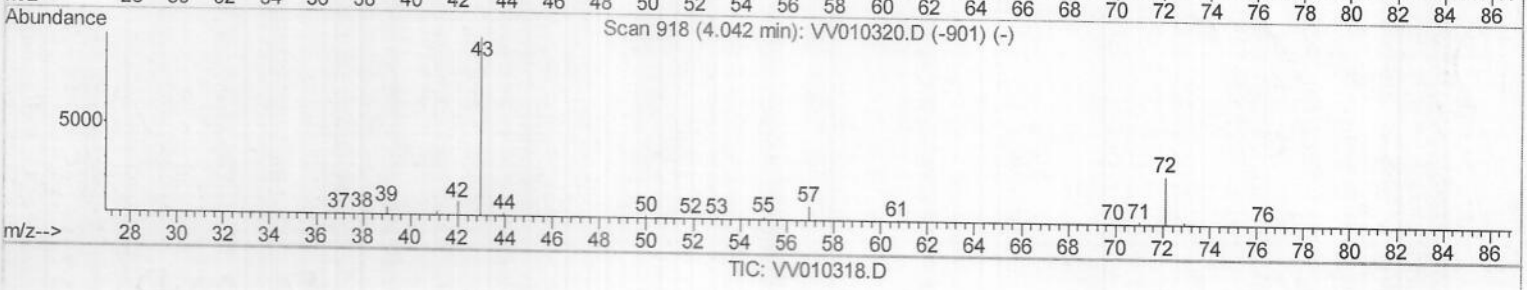
Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM







TIC: VV010318.D

(21) 2-Butanone (T)

4.093min (+0.051) 4.19ug/L m

response 8590

Ion	Exp%	Act%
43.05	100	100
72.10	29.60	2.27#
0.00	0.00	0.00
0.00	0.00	0.00

M.D. 04/16/19

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 13:05:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument : MSVOA_V
ClientSampleId : VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	143878	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	137094	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	65744	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.32	65	3994	0.23	ug/L	0.00
7) Chloroethane-d5	1.58	69	4125m	0.27	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	11008	0.27	ug/L	0.00
20) 2-Butanone-d5	3.99	46	8924m	4.43	ug/L	0.04
24) Chloroform-d	4.41	84	8800	0.48	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	4877	0.58	ug/L	0.00
32) Benzene-d6	5.10	84	16072	0.45	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	5710	0.54	ug/L	0.00
41) Toluene-d8	7.36	98	14644	0.42	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	1328	0.34	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	6198	3.68	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	4051	0.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	5765	0.48	ug/L	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.14	85	7128	0.549	ug/L	99
3) Chloromethane	1.25	50	5662	0.299	ug/L	98
5) Vinyl chloride	1.32	62	6298	0.302	ug/L	94
6) Bromomethane	1.54	94	4197	0.329	ug/L	95
8) Chloroethane	1.60	64	3910	0.270	ug/L	88
9) Trichlorofluoromethane	1.77	101	13095	0.300	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	6706	0.310	ug/L	97
12) 1,1-Dichloroethene	2.14	96	5394	0.281	ug/L	96
13) Acetone	2.25	43	5994m	2.300	ug/L	
14) Carbon disulfide	2.32	76	13848	0.261	ug/L	97
15) Methyl Acetate	2.47	43	1340	0.216	ug/L #	76
16) Methylene chloride	2.54	84	7635	0.352	ug/L	97
17) Methyl tert-butyl Ether	2.82	73	12879	0.291	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	6369	0.309	ug/L	75
19) 1,1-Dichloroethane	3.23	63	10668	0.298	ug/L #	95
21) 2-Butanone	4.09	43	8590m	4.194	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	5160	0.517	ug/L	78
23) Bromochloromethane	4.30	128	2272m	0.562	ug/L	
25) Chloroform	4.43	83	9337	0.536	ug/L	93
27) 1,2-Dichloroethane	5.19	62	5053	0.476	ug/L #	90
29) 1,1,1-Trichloroethane	4.66	97	7319	0.495	ug/L	92
30) Cyclohexane	4.72	56	6364	0.415	ug/L	92
31) Carbon tetrachloride	4.87	117	7284	0.572	ug/L	95
33) Benzene	5.14	78	18108	0.470	ug/L	100
34) Trichloroethene	5.96	95	5736	0.589	ug/L	93
35) Methylcyclohexane	6.17	83	7709	0.462	ug/L	93
37) 1,2-Dichloropropane	6.22	63	4145	0.431	ug/L #	94
38) Bromodichloromethane	6.56	83	5053	0.444	ug/L #	90
39) cis-1,3-Dichloropropene	7.07	75	4941	0.380	ug/L	88
40) 4-Methyl-2-pentanone	7.29	43	20840	3.706	ug/L #	88

M.D. 04/16/19

M.D. 04/16/19

M.D. 04/16/19

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041319\
Data File : VV010318.D
Acq On : 13 Apr 2019 11:42
Operator : SY/MD
Sample : VSTD0.532
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 13:05:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR041319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 13 12:55:56 2019
Response via : Initial Calibration

Instrument : MSVOA_V
ClientSampleId : VSTD0.532

Manual Integrations APPROVED
MMDadoda
4/16/2019 12:43:15 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) Toluene	7.43	91	19071	0.438	ug/L		94
44) trans-1,3-Dichloropropene	7.70	75	3808	0.366	ug/L	#	82
45) 1,1,2-Trichloroethane	7.89	97	3633	0.555	ug/L	#	80
47) Tetrachloroethene	8.02	164	4575	0.544	ug/L		82
48) 2-Hexanone	8.20	43	12186	3.080	ug/L	#	93
49) Dibromochloromethane	8.29	129	3440	0.454	ug/L		94
50) 1,2-Dibromoethane	8.40	107	2767	0.452	ug/L	#	88
51) Chlorobenzene	8.93	112	12713	0.456	ug/L		99
52) Ethylbenzene	9.05	91	19234	0.401	ug/L		94
53) m,p-xylene	9.19	106	6936	0.380	ug/L		88
54) o-xylene	9.59	106	6974	0.391	ug/L		85
55) Styrene	9.61	104	10194	0.352	ug/L		95
56) Isopropylbenzene	9.97	105	16833	0.358	ug/L		95
58) 1,1,2,2-Tetrachloroethane	10.29	83	3353	0.413	ug/L	#	87
59) 1,2,3-Trichloropropane	10.32	75	2676	0.479	ug/L		99
61) Bromoform	9.77	173	2006	0.577	ug/L	#	94
62) 1,3-Dichlorobenzene	11.23	146	10079	0.482	ug/L		98
63) 1,4-Dichlorobenzene	11.32	146	9651	0.456	ug/L		91
65) 1,2-Dichlorobenzene	11.69	146	9566	0.486	ug/L		94
66) 1,2-Dibromo-3-chloropropan	12.48	75	424	0.403	ug/L		96
67) 1,3,5-Trichlorobenzene	12.70	180	7427	0.469	ug/L		95
68) 1,2,4-trichlorobenzene	13.31	180	4598	0.387	ug/L		89
69) Naphthalene	13.56	128	3860	0.207	ug/L		96
70) 1,2,3-Trichlorobenzene	13.80	180	4010	0.364	ug/L		95

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