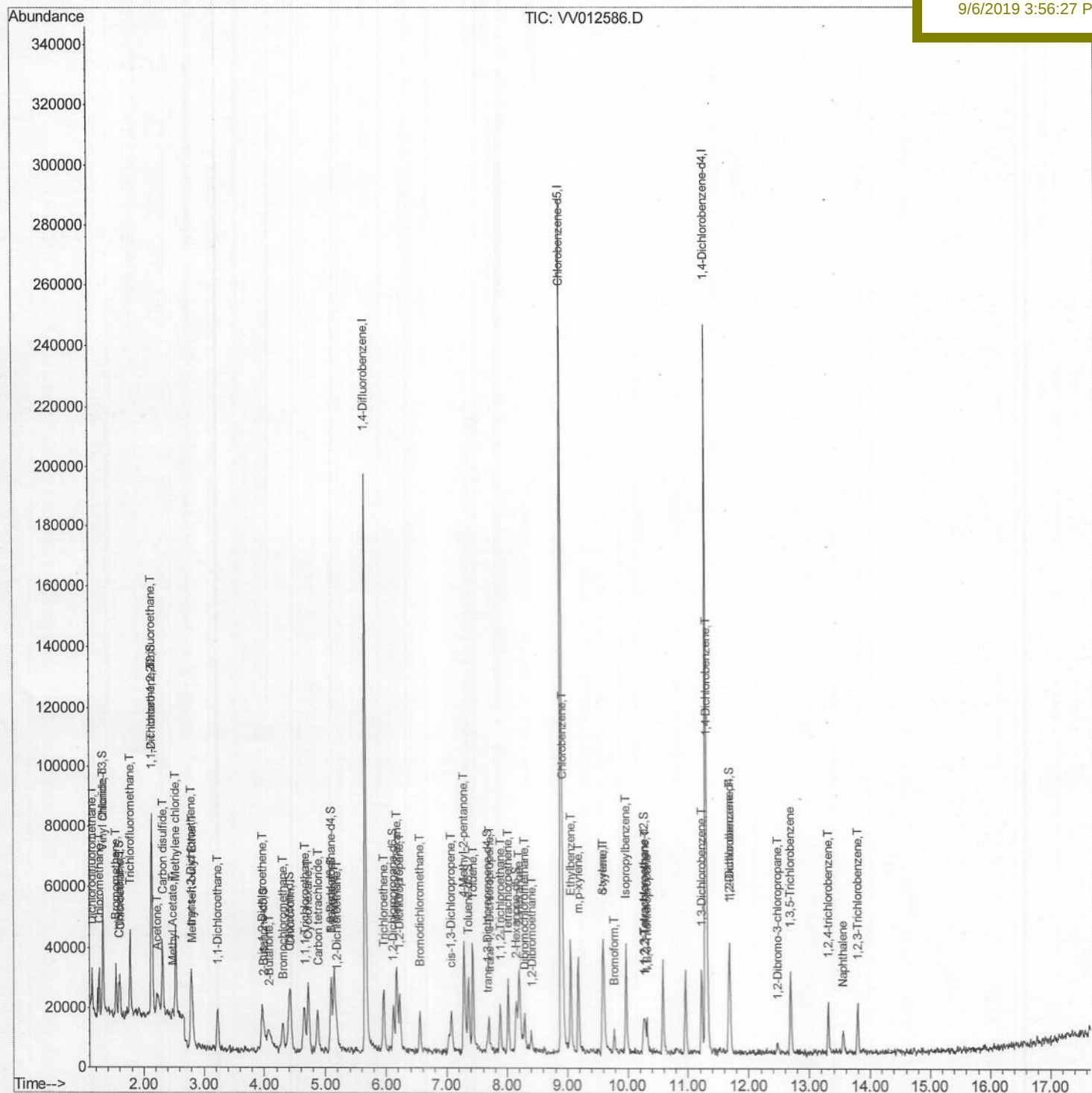


Quant Time: Sep 06 02:58:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
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9/6/2019 3:56:27 PM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

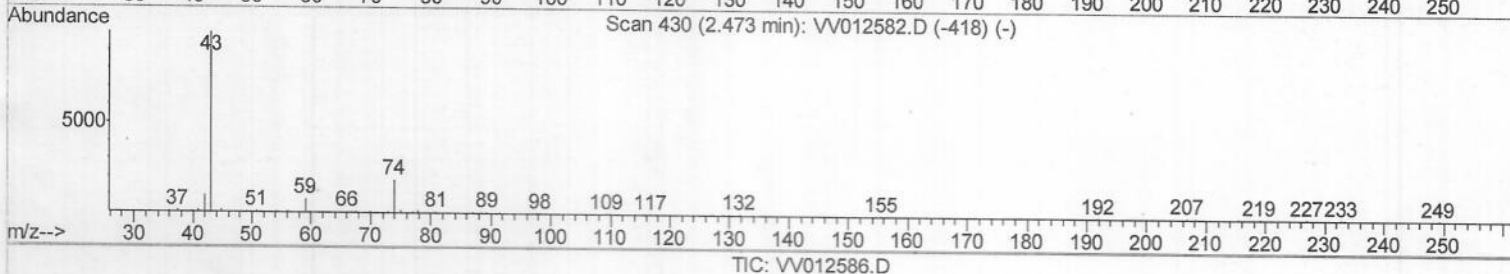
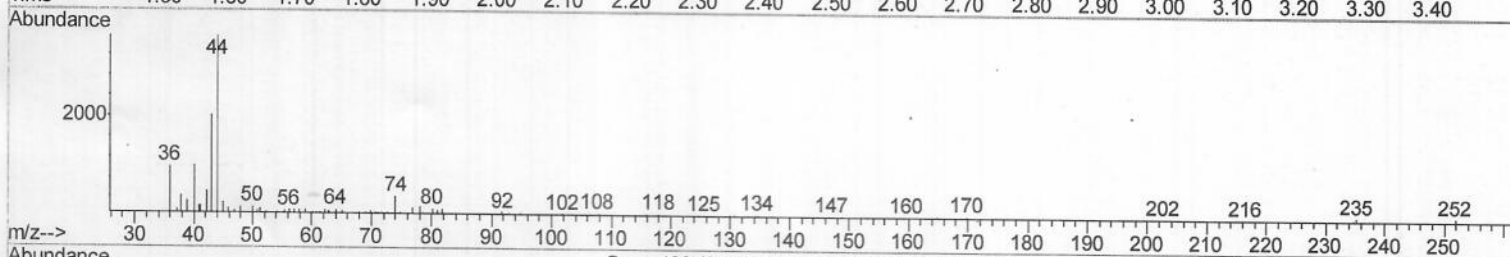
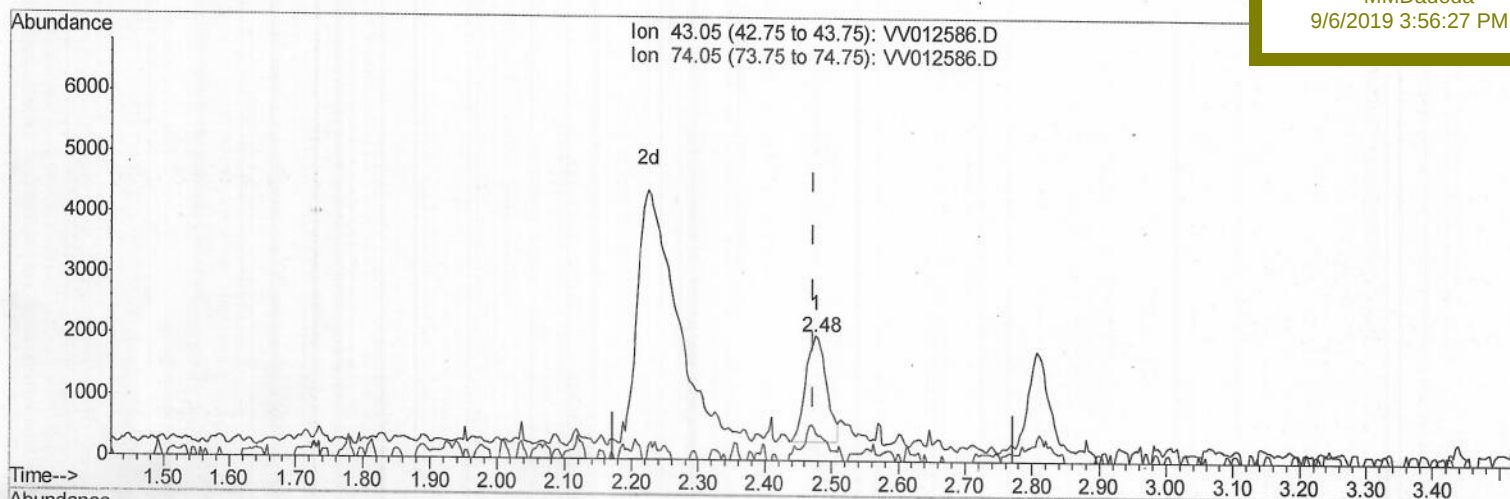
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
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TIC: VV012586.D

(15) Methyl Acetate (T)

2.476min (+0.003) 0.38ug/L

response 3697

Ion	Exp%	Act%
43.05	100	100
74.05	18.60	30.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

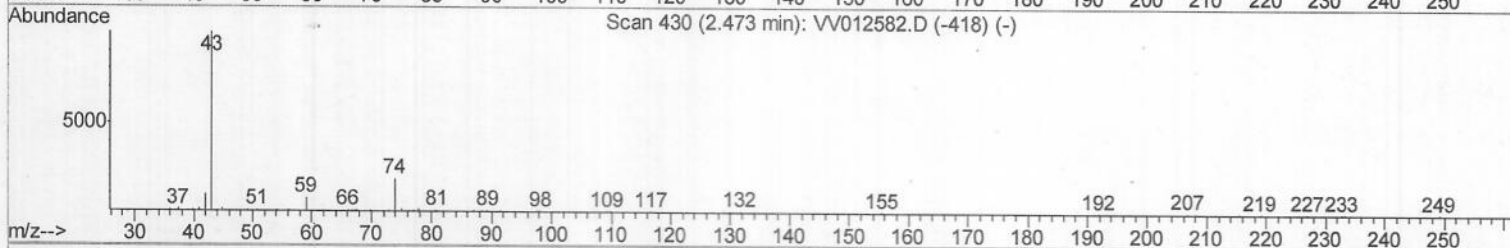
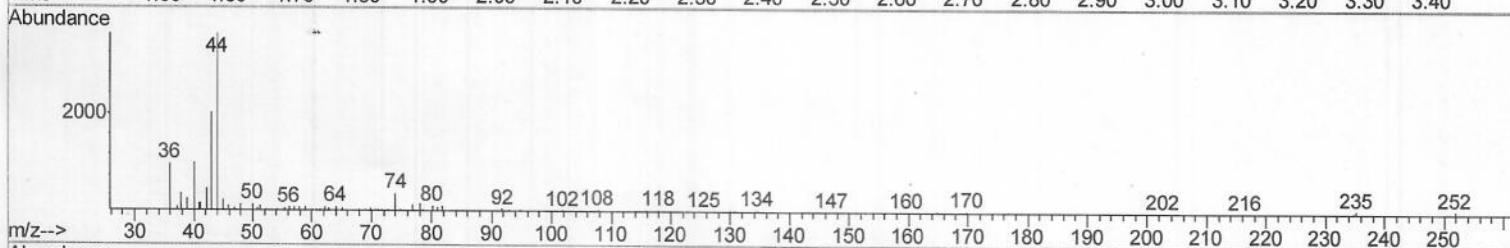
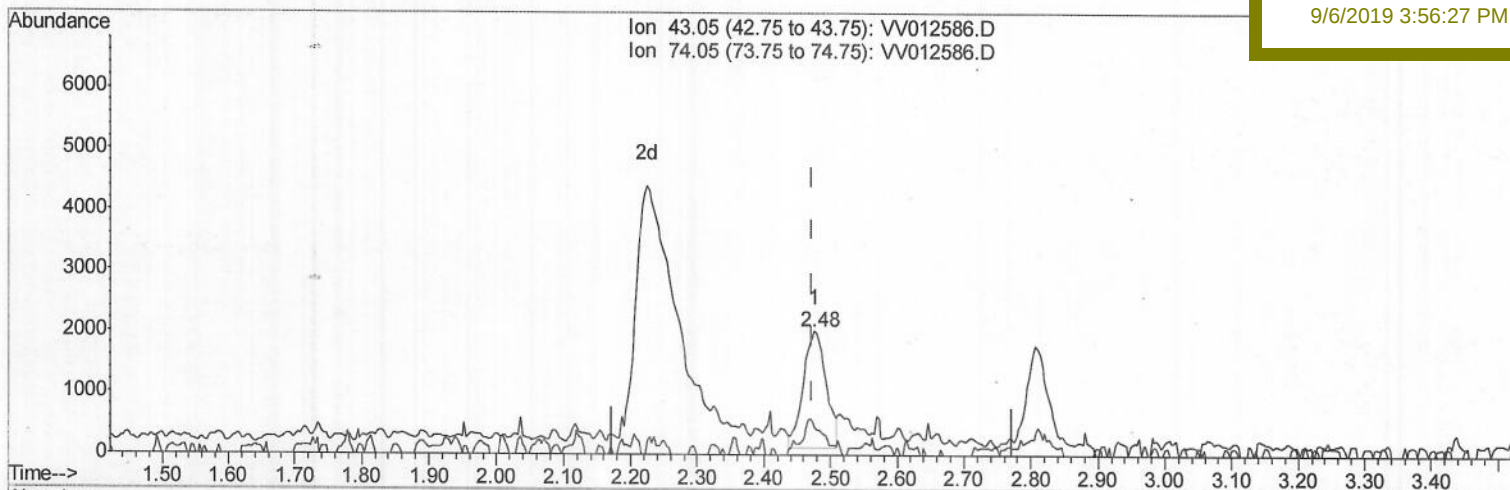
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:56:27 PM



TIC: VV012586.D

(15) Methyl Acetate (T)

2.476min (+0.003) 0.46ug/L m

> M.D 09/13/19

response 4465

Ion	Exp%	Act%
43.05	100	100
74.05	18.60	24.84#
0.00	0.00	0.00
0.00	0.00	0.00

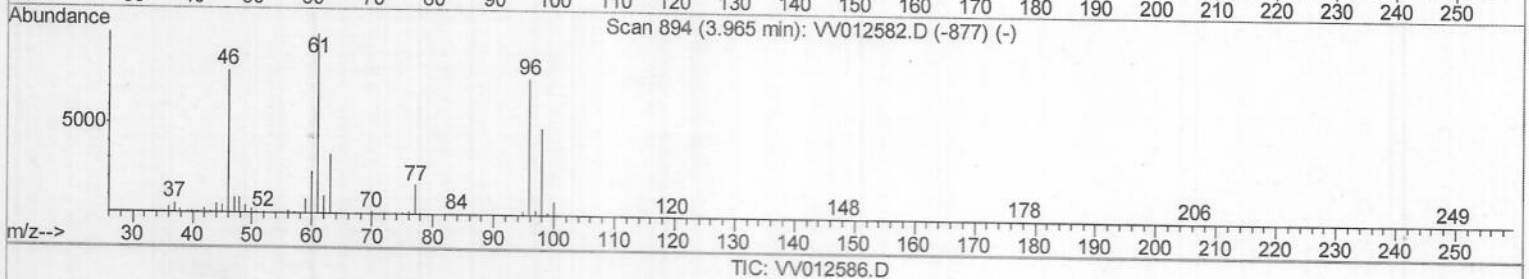
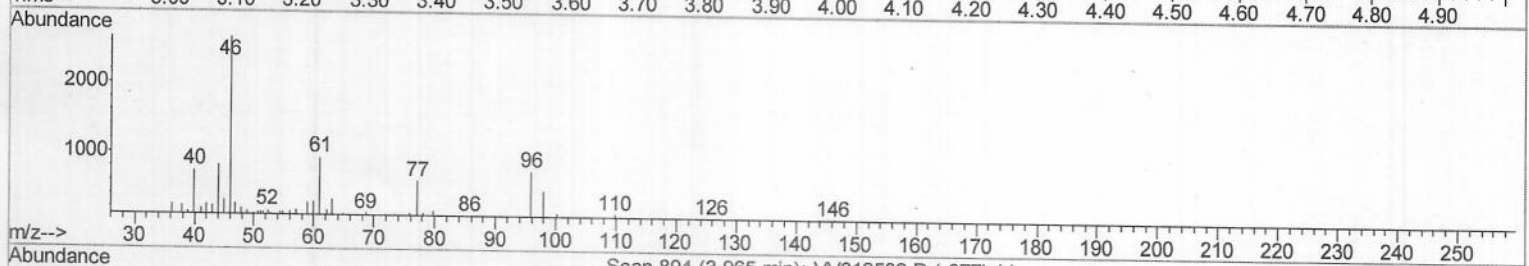
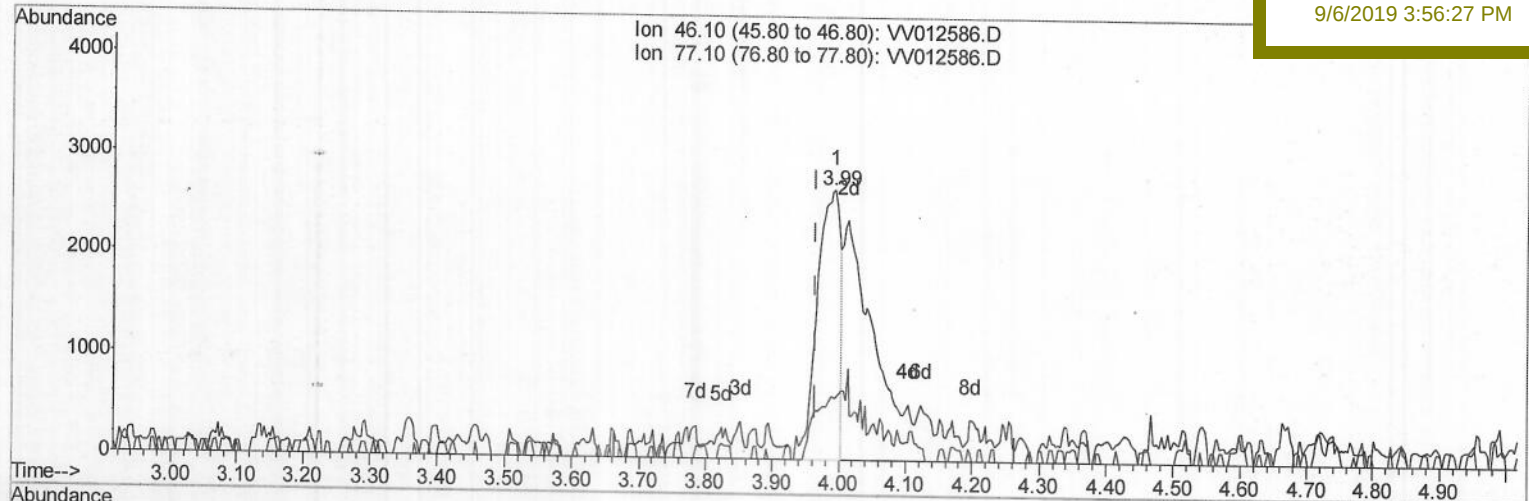
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
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(20) 2-Butanone-d5 (S)

3.994min (+0.029) 2.28ug/L

response 6464

Ion	Exp%	Act%
46.10	100	100
77.10	21.00	1.07#
0.00	0.00	0.00
0.00	0.00	0.00

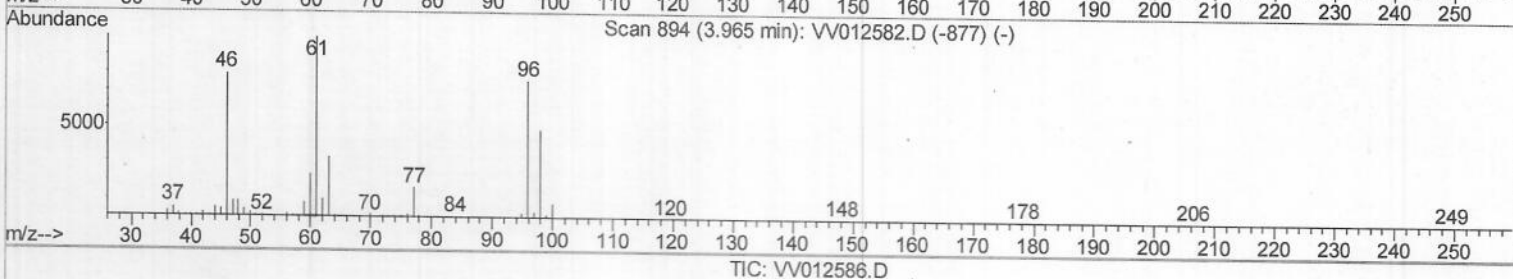
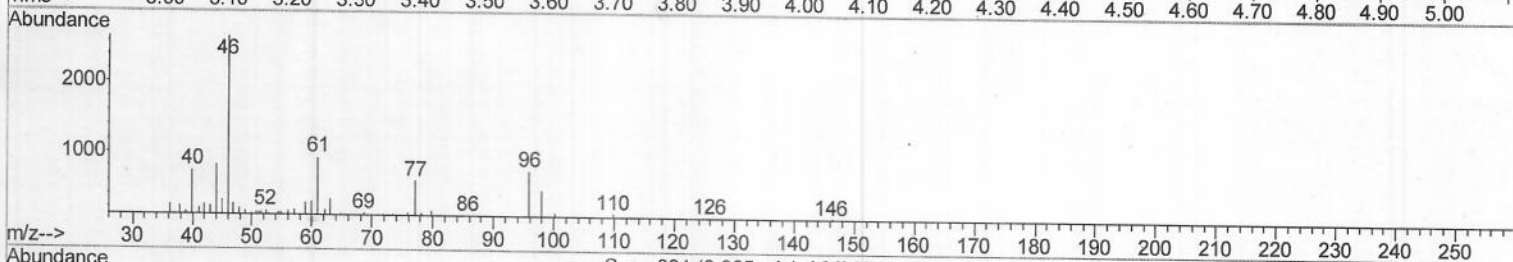
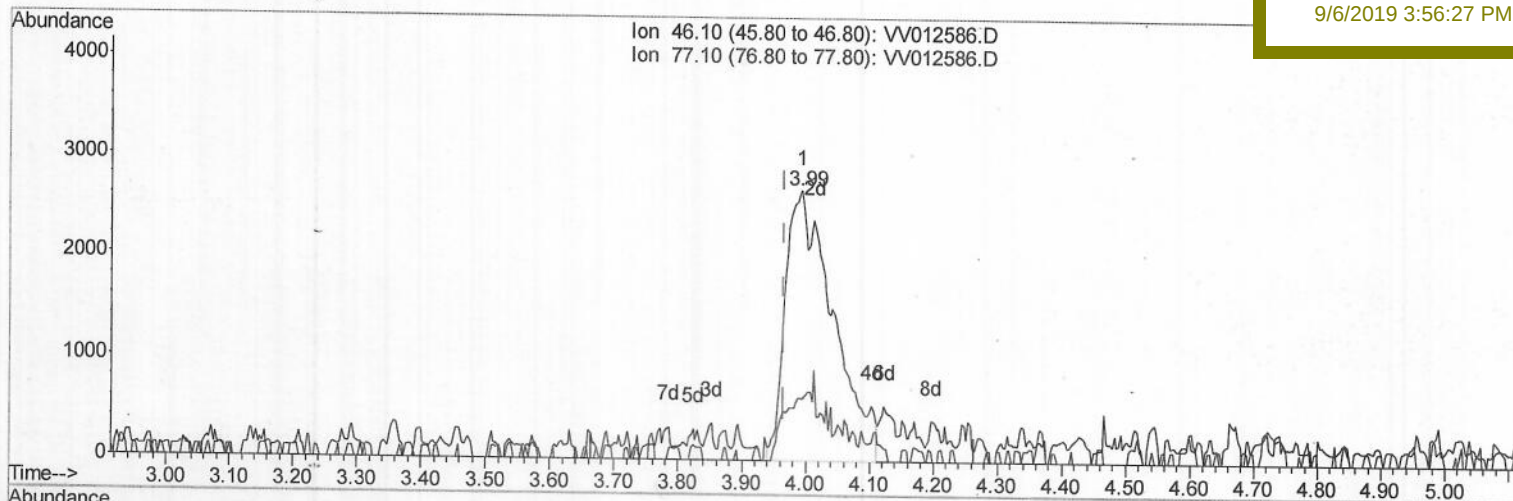
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
Client Sample Id :
VSTD0.531

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:56:27 PM



(20) 2-Butanone-d5 (S)

3.994min (+0.029) 4.91ug/L m

response 13912

Ion	Exp%	Act%
46.10	100	100
77.10	21.00	0.50#
0.00	0.00	0.00
0.00	0.00	0.00

M.D 09/13/19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

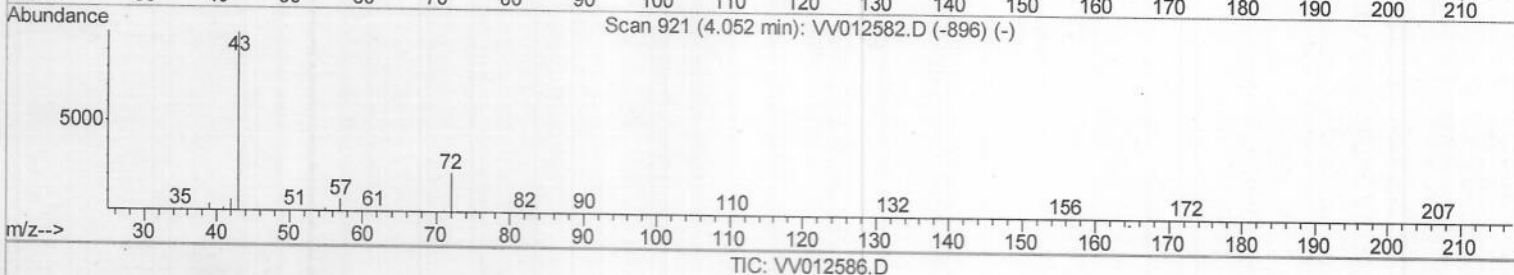
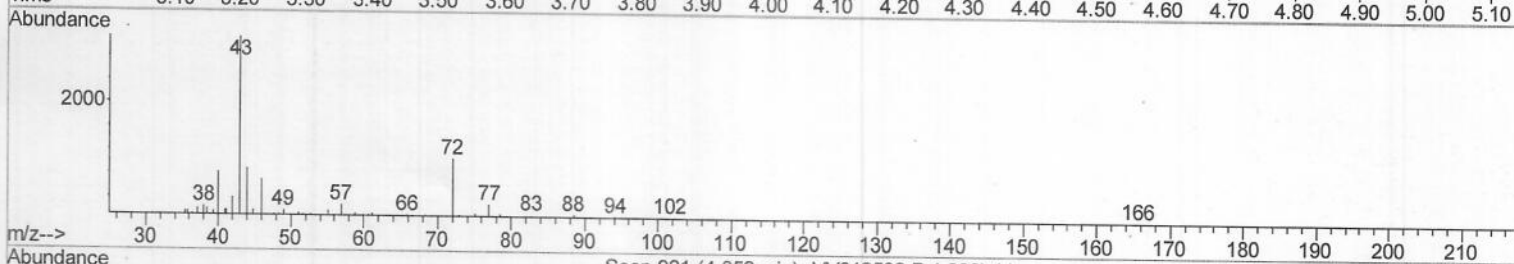
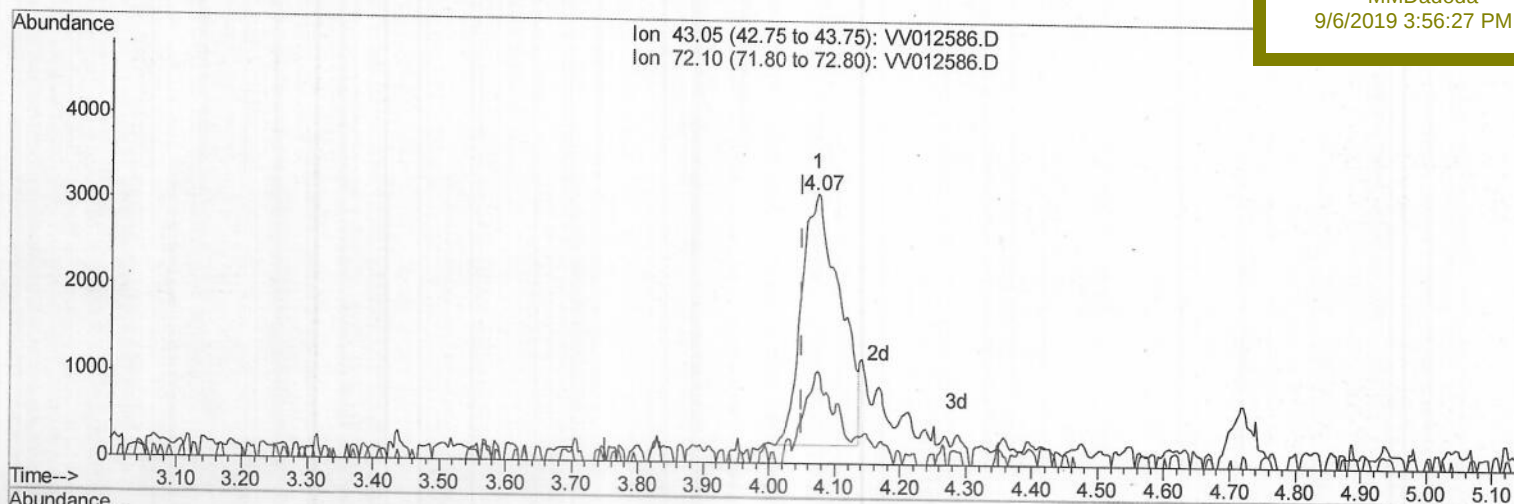
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampled :
VSTD0.531

Manual Integrations
APPROVED

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9/6/2019 3:56:27 PM



(21) 2-Butanone (T)

4.074min (+0.023) 3.08ug/L

response 11730

Ion	Exp%	Act%
43.05	100	100
72.10	21.10	22.34
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

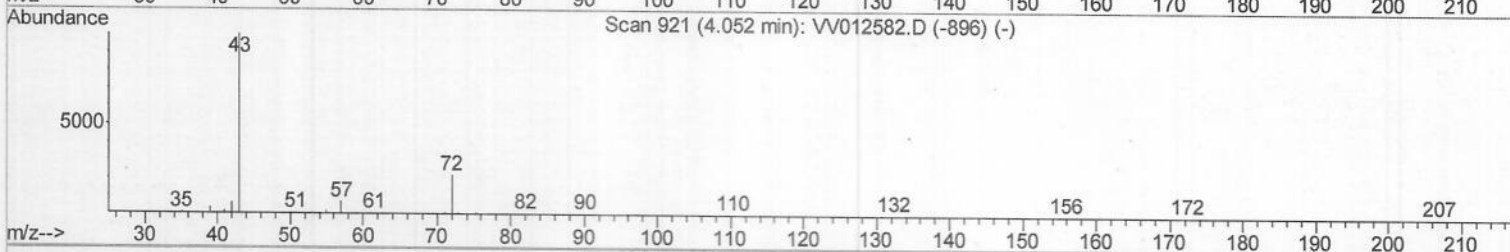
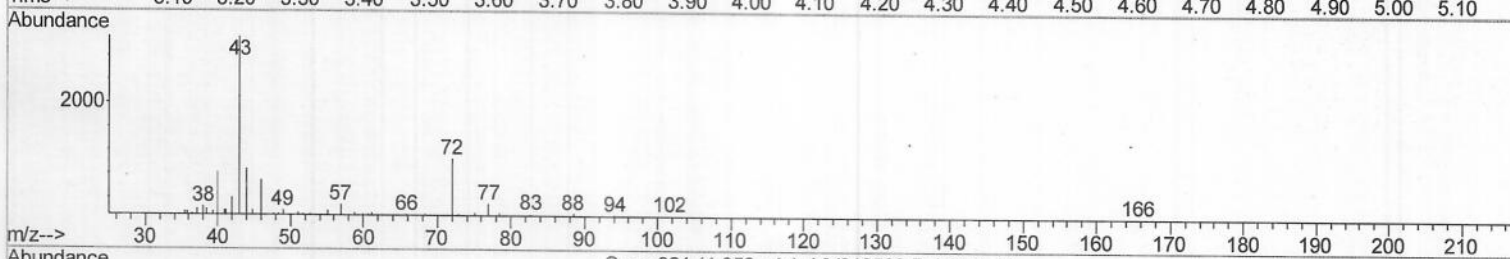
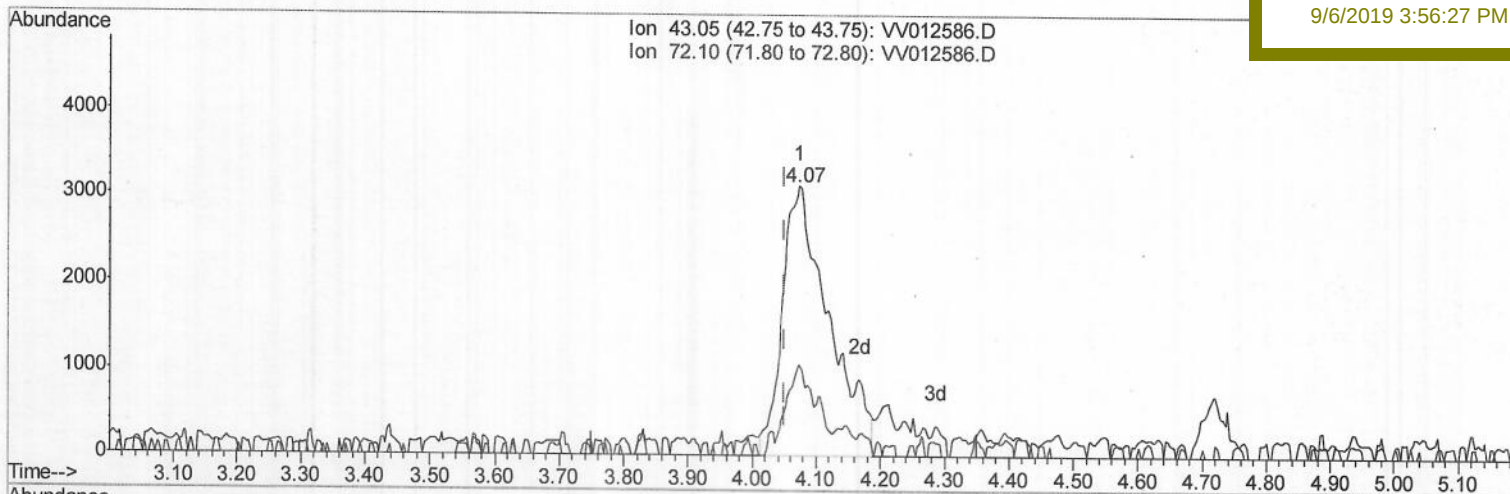
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
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TIC: VV012586.D

(21) 2-Butanone (T)

4.074min (+0.023) 4.12ug/L m

> M.D 09/13/19

response 15724

Ion	Exp%	Act%
43.05	100	100
72.10	21.10	16.67
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

Data File : VV012586.D

Acq On : 05 Sep 2019 17:45

Operator : SY/MD

Sample : VSTD0.531

Misc : 25mL/MSVOA_V/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Sep 06 02:40:30 2019

Response via : Initial Calibration

Instrument :

MSVOA_V

ClientSampled :

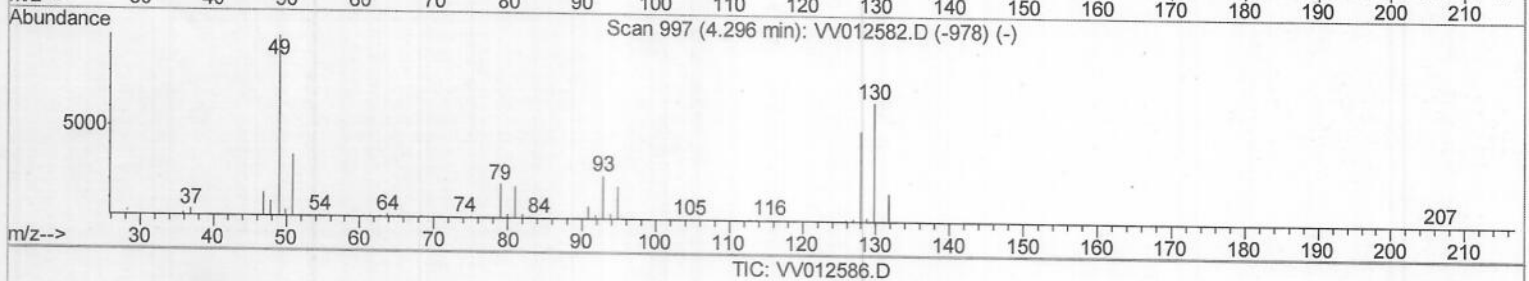
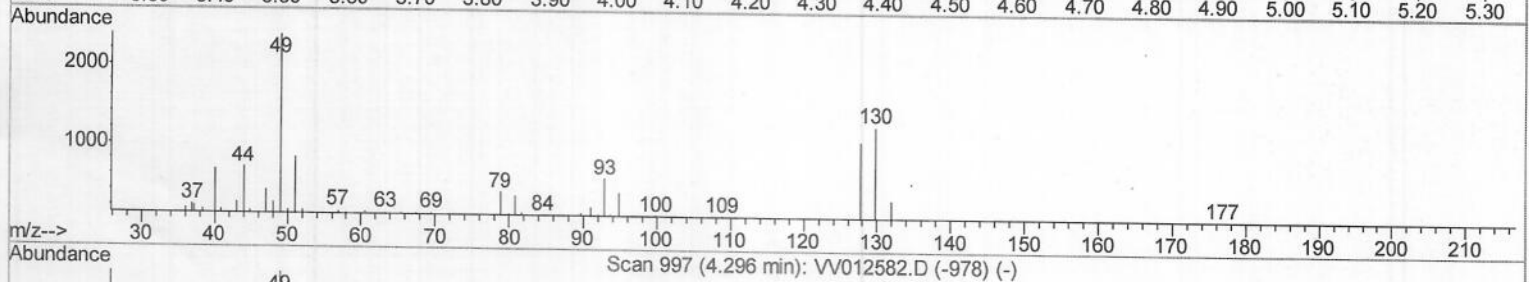
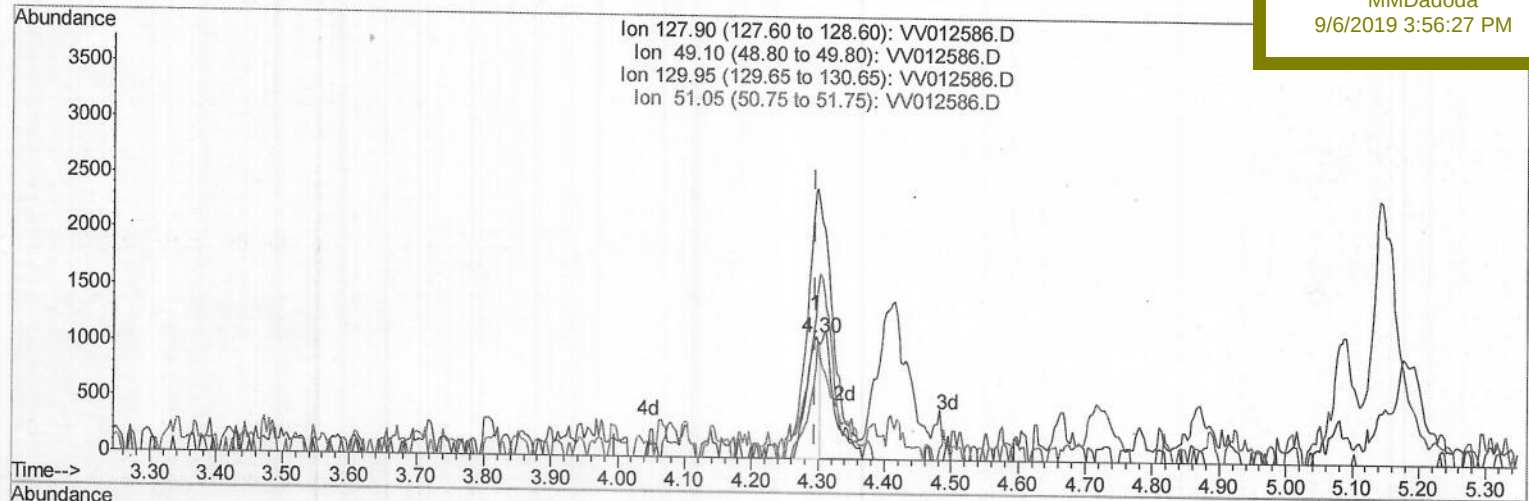
VSTD0.531

Manual Integrations

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9/6/2019 3:56:27 PM



(23) Bromochloromethane (T)

4.296min (+0.000) 0.24ug/L

response 1554

Ion	Exp%	Act%
127.90	100	100
49.10	195.90	218.41
129.95	129.90	116.85
51.05	68.00	75.27

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

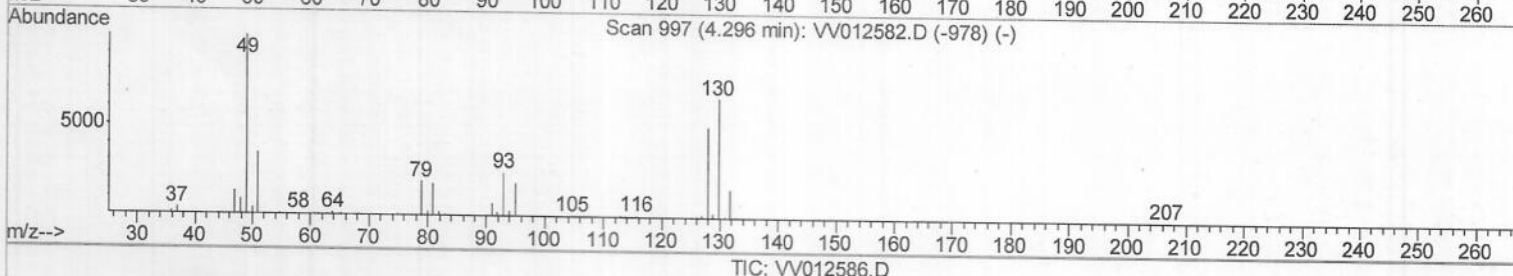
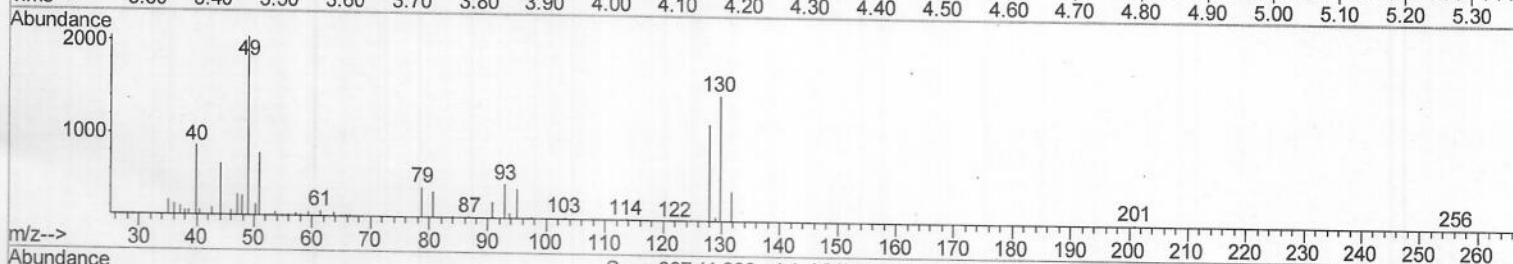
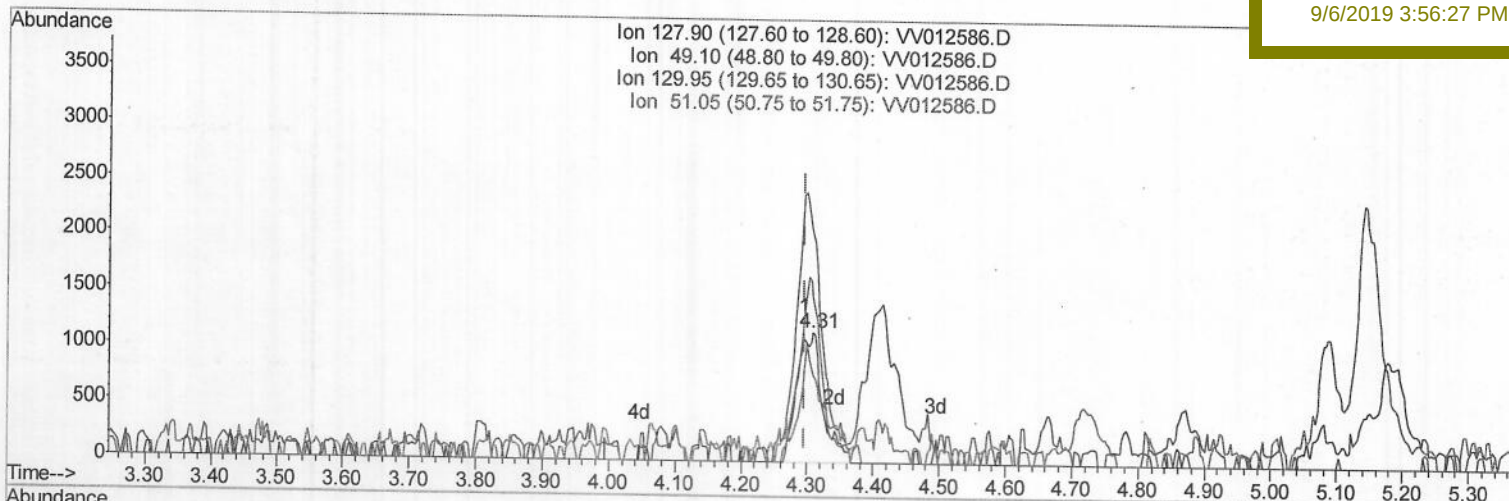
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
Client Sampled :
VSTD0.531

Manual Integrations
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9/6/2019 3:56:27 PM



(23) Bromochloromethane (T)

4.309min (+0.013) 0.48ug/L m

7 M.D 09/13/19

response 3157

Ion	Exp%	Act%
127.90	100	100
49.10	195.90	177.98
129.95	129.90	127.24
51.05	68.00	68.06

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

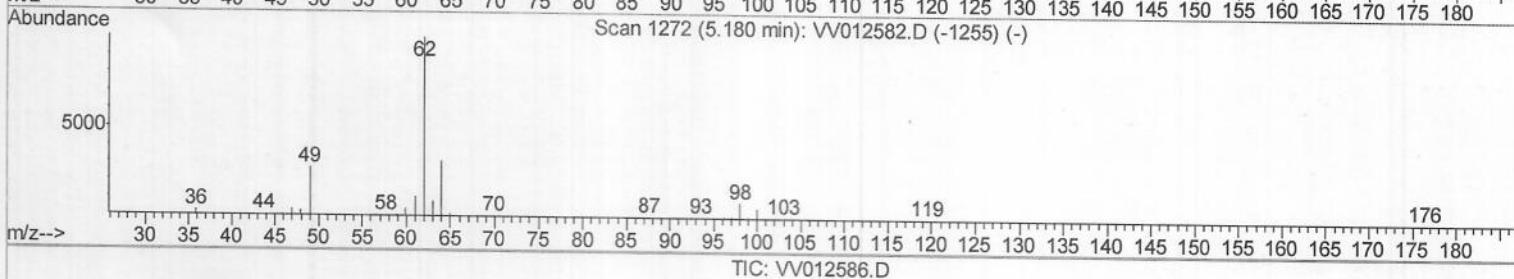
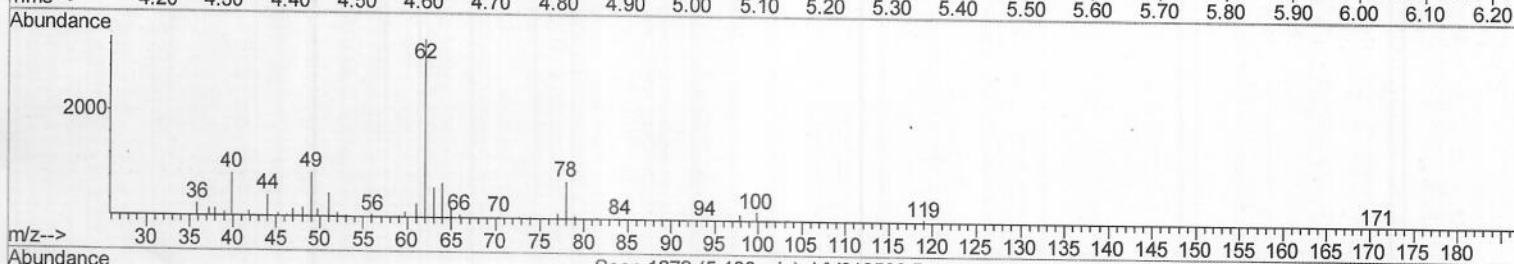
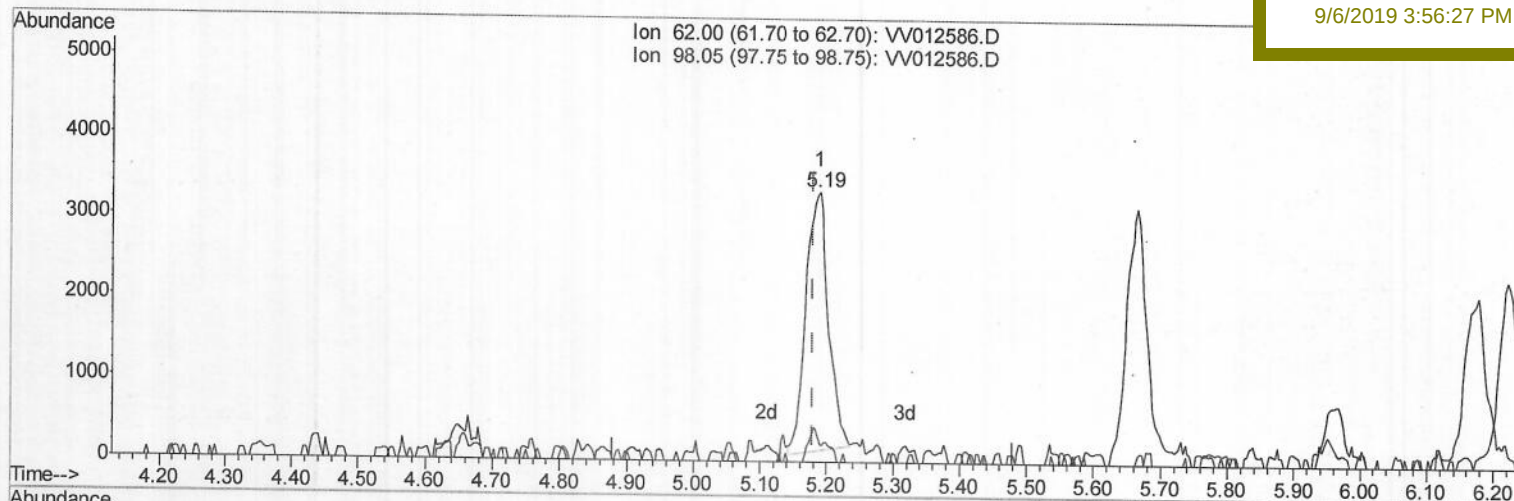
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
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9/6/2019 3:56:27 PM



(27) 1,2-Dichloroethane (T)

5.190min (+0.010) 0.40ug/L

response 7487

Ion	Exp%	Act%
62.00	100	100
98.05	8.70	6.45#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

Data File : VV012586.D

Acq On : 05 Sep 2019 17:45

Operator : SY/MD

Sample : VSTD0.531

Misc : 25mL/MSVOA_V/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Sep 06 02:40:30 2019

Response via : Initial Calibration

Instrument :

MSVOA_V

ClientSampled :

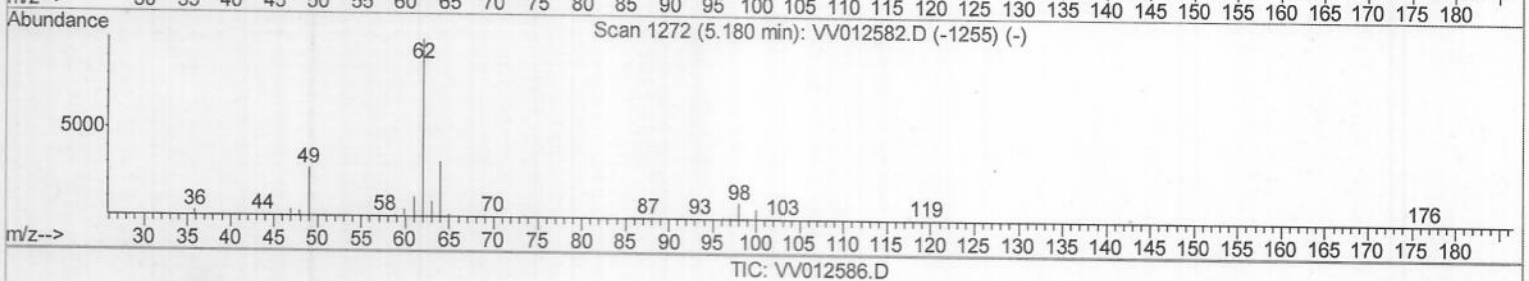
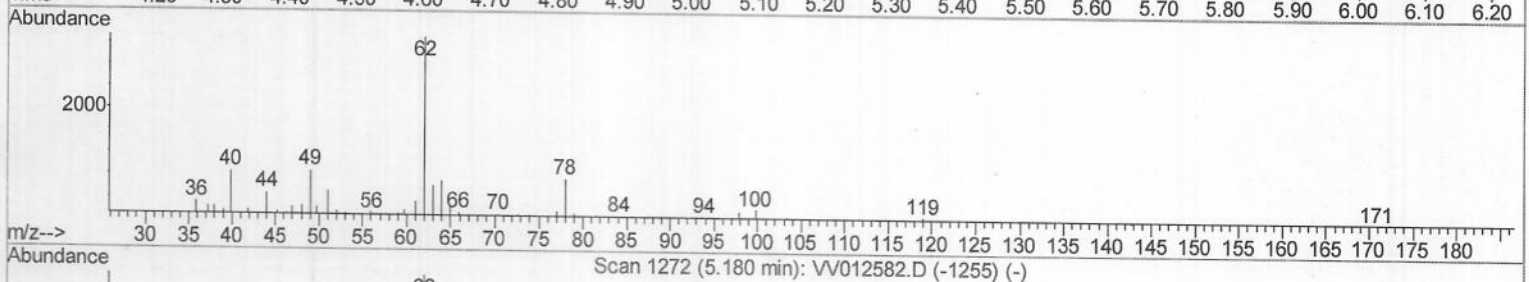
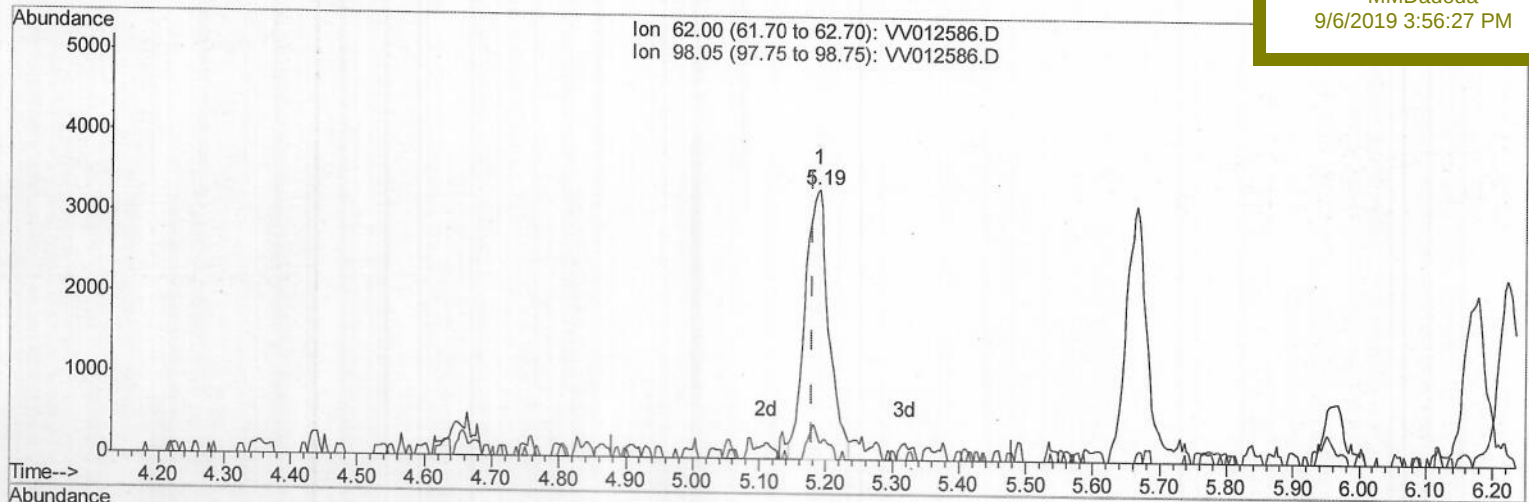
VSTD0.531

Manual Integrations

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MMDadoda

9/6/2019 3:56:27 PM



(27) 1,2-Dichloroethane (T)

5.190min (+0.010) 0.44ug/L m

> M.D 09/13/19

response 8244

Ion	Exp%	Act%
62.00	100	100
98.05	8.70	6.45#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : VV012586.D

Acq On : 05 Sep 2019 17:45

Operator : SY/MD

Sample : VSTD0.531

Misc : 25mL/MSVOA_V/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Sep 06 02:40:30 2019

Response via : Initial Calibration

Instrument :

MSVOA_V

ClientSampled :

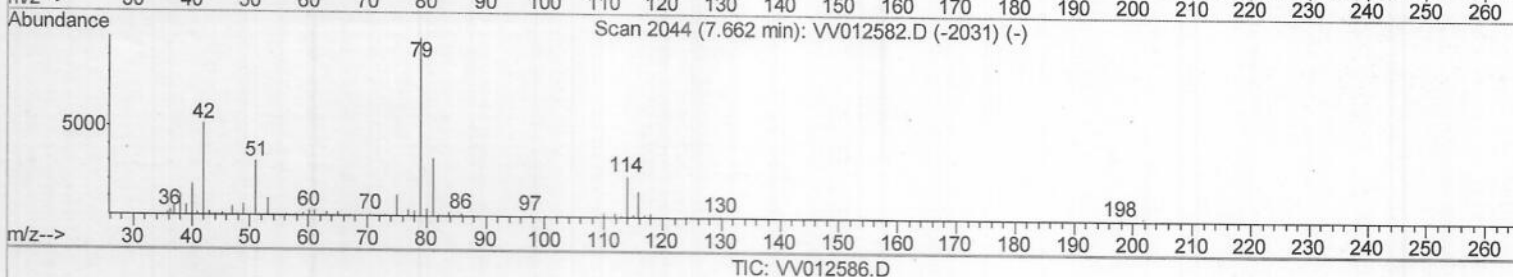
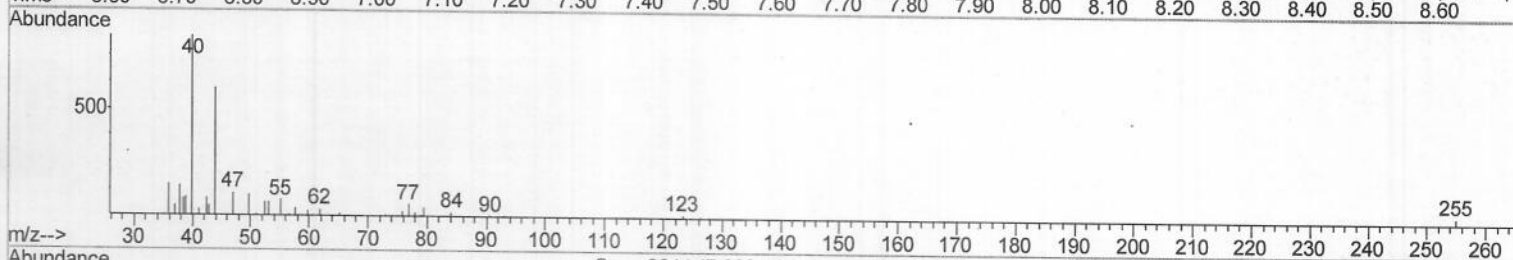
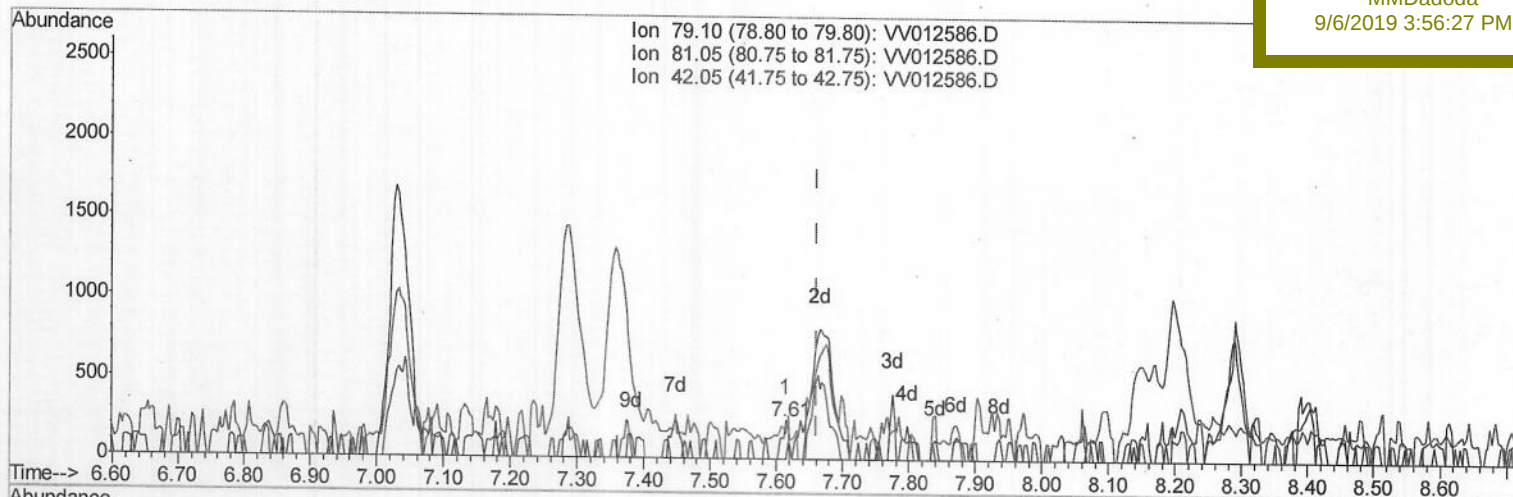
VSTD0.531

Manual Integrations

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9/6/2019 3:56:27 PM



(43) trans-1,3-Dichloropropene-d4 (S)

7.614min (-0.048) 0.03ug/L

response 166

Ion	Exp%	Act%
79.10	100	100
81.05	32.50	24.70
42.05	53.00	55.42
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

Data File : VV012586.D

Acq On : 05 Sep 2019 17:45

Operator : SY/MD

Sample : VSTD0.531

Misc : 25mL/MSVOA_V/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Sep 06 02:40:30 2019

Response via : Initial Calibration

Instrument :

MSVOA_V

ClientSampleId :

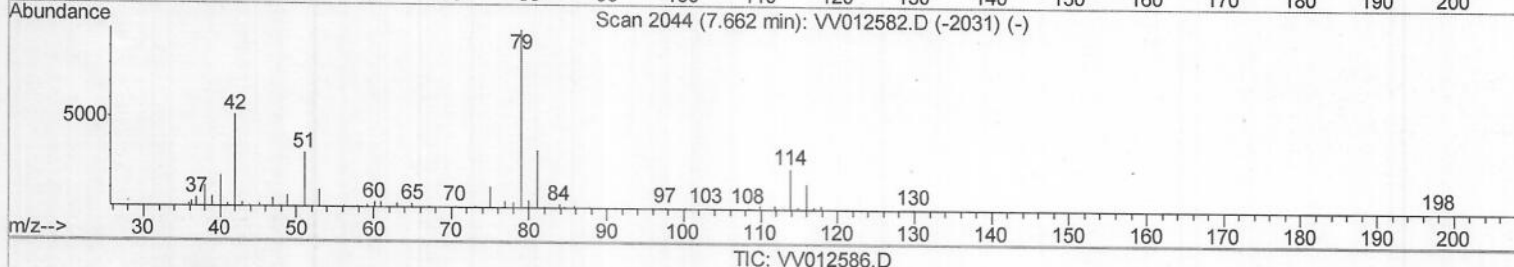
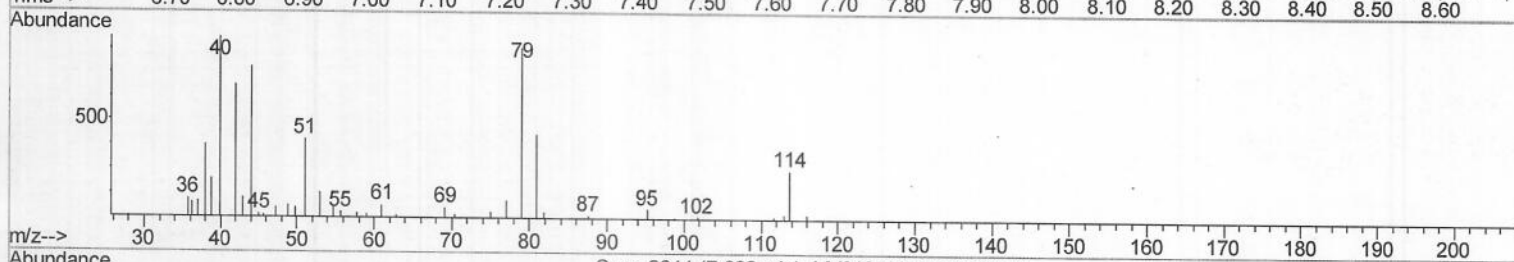
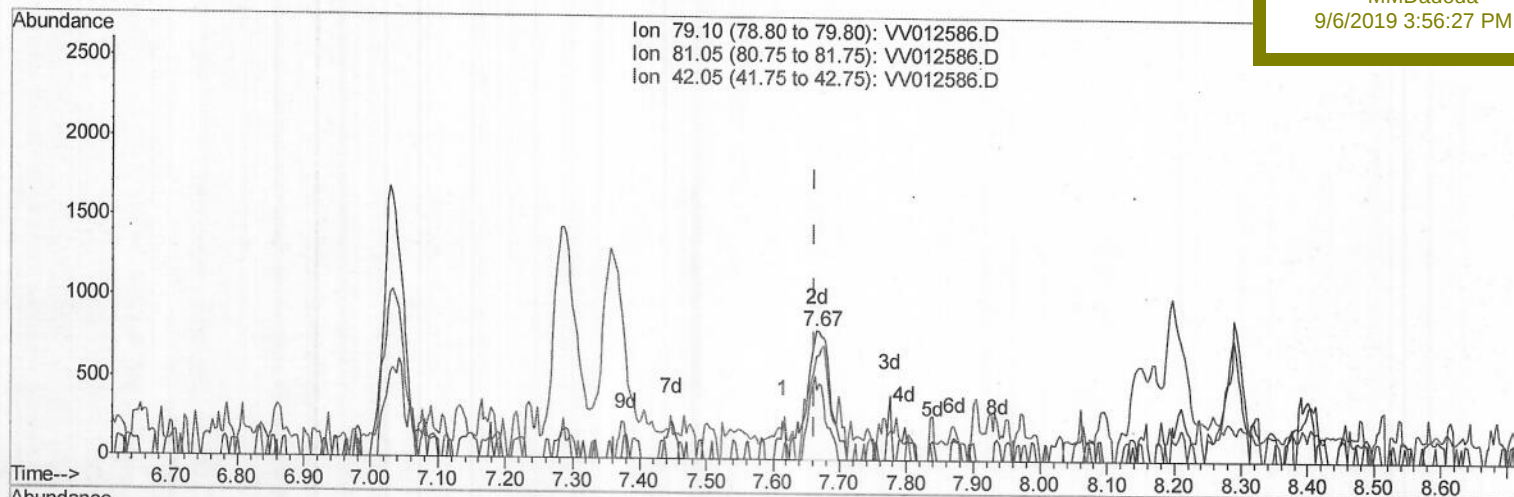
VSTD0.531

Manual Integrations

APPROVED

MMDadoda

9/6/2019 3:56:27 PM



(43) trans-1,3-Dichloropropene-d4 (S)

7.666min (+0.003) 0.42ug/L m

> M.D 09/13/19

response 2013

Ion	Exp%	Act%
79.10	100	100
81.05	32.50	2.04#
42.05	53.00	4.57#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

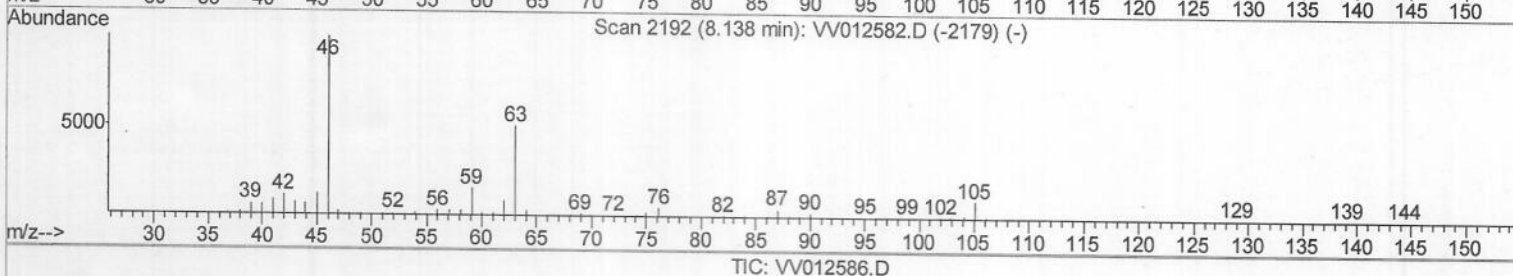
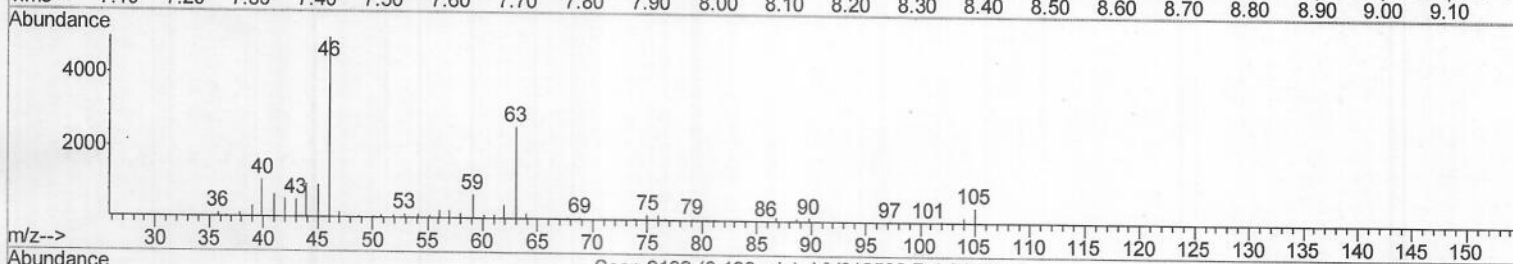
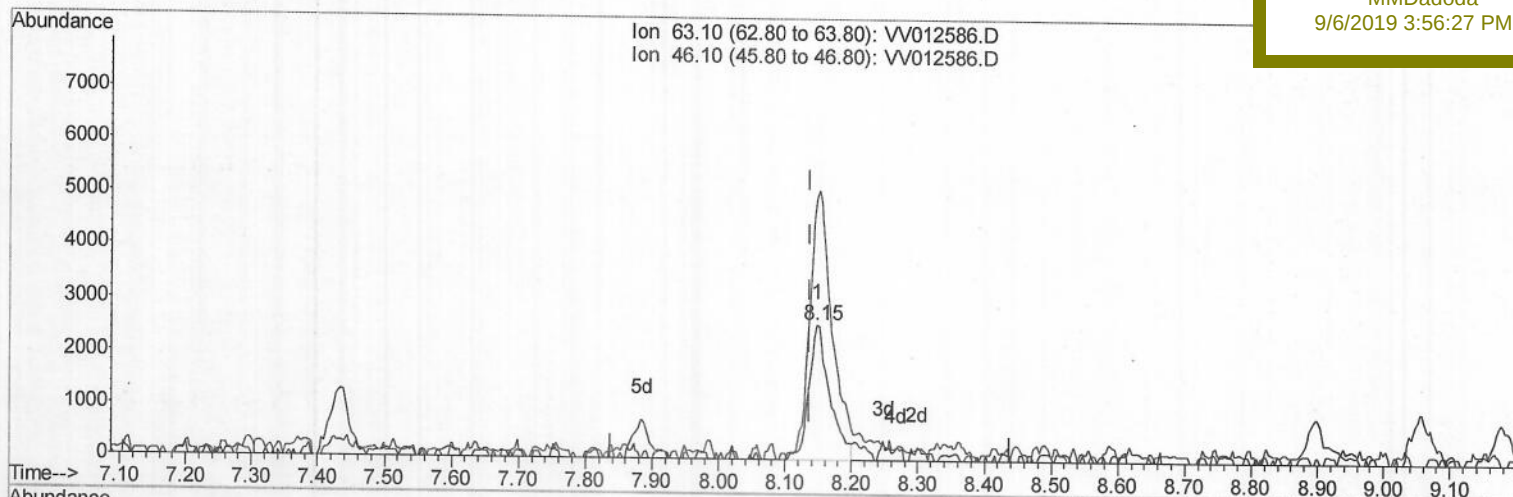
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
Client Sample Id :
VSTD0.531

Manual Integrations
APPROVED

MMDadoda
9/6/2019 3:56:27 PM



(46) 2-Hexanone-d5 (S)

8.148min (+0.010) 3.17ug/L

response 5664

Ion	Exp%	Act%
63.10	100	100
46.10	206.70	203.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV090519\
Quantitation Report (Qedit)

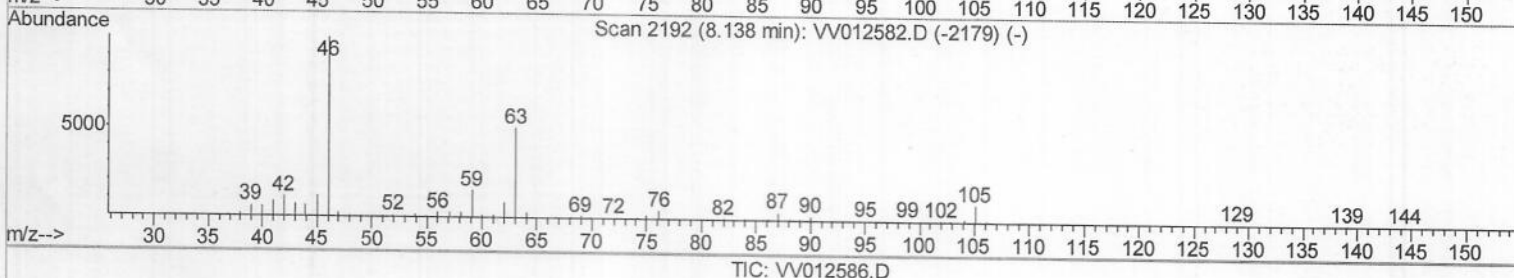
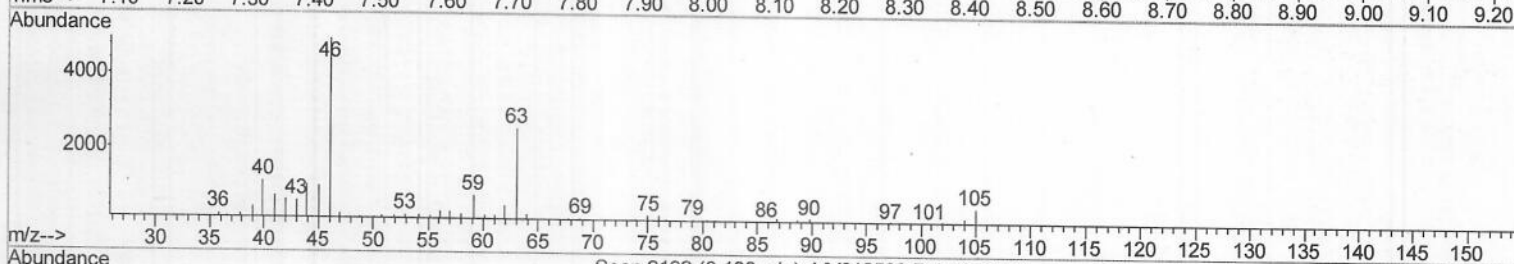
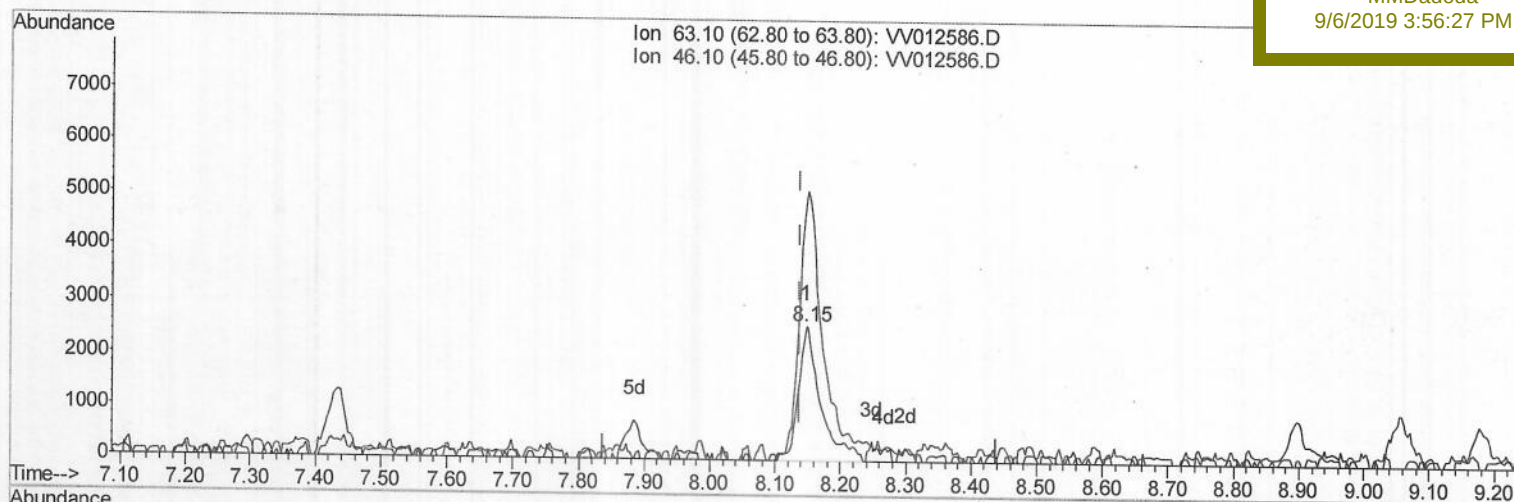
Data File : VV012586.D
Acq On : 05 Sep 2019 17:45
Operator : SY/MD
Sample : VSTD0.531
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 06 02:45:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
APPROVED

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9/6/2019 3:56:27 PM



(46) 2-Hexanone-d5 (S)

8.148min (+0.010) 3.44ug/L m

M.D 09/13/19

response 6144

Ion	Exp%	Act%
63.10	100	100
46.10	206.70	187.50
0.00	0.00	0.00
0.00	0.00	0.00

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Instrument :
MSVOA_V
Client Sampled :
VSTD0.531

Quant Time: Sep 06 02:58:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Manual Integrations
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9/6/2019 3:56:27 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	5.66	114	151858	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	147895	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	58757	5.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
4) Vinyl Chloride-d3	1.32	65	7542	0.51	ug/L	0.00
7) Chloroethane-d5	1.58	69	6475	0.44	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	16023	0.44	ug/L	0.00
20) 2-Butanone-d5	3.99	46	13912m	4.91	ug/L	0.03
24) Chloroform-d	4.40	84	11235	0.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	6068	0.51	ug/L	0.00
32) Benzene-d6	5.10	84	18978	0.45	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	6296	0.48	ug/L	0.00
41) Toluene-d8	7.36	98	14295	0.38	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	2013m	0.42	ug/L	0.00
46) 2-Hexanone-d5	8.15	63	6144m	3.44	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	4515	0.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	5790	0.54	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.14	85	7490	0.387	ug/L	92
3) Chloromethane	1.25	50	11001	0.478	ug/L	99
5) Vinyl chloride	1.32	62	10493	0.421	ug/L	98
6) Bromomethane	1.54	94	7111	0.479	ug/L	94
8) Chloroethane	1.60	64	6782	0.396	ug/L	94
9) Trichlorofluoromethane	1.77	101	15952	0.418	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	8956	0.419	ug/L	98
12) 1,1-Dichloroethene	2.14	96	8434	0.427	ug/L	98
13) Acetone	2.23	43	16078	4.076	ug/L	63
14) Carbon disulfide	2.32	76	27404	0.430	ug/L #	95
15) Methyl Acetate	2.48	43	4465m	0.459	ug/L	
16) Methylene chloride	2.53	84	11286	0.499	ug/L	98
17) Methyl tert-butyl Ether	2.81	73	13277	0.398	ug/L #	88
18) trans-1,2-Dichloroethene	2.79	96	6945	0.439	ug/L	96
19) 1,1-Dichloroethane	3.23	63	13156	0.433	ug/L	98
21) 2-Butanone	4.07	43	15724m	4.124	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	6502	0.401	ug/L	80
23) Bromochloromethane	4.31	128	3157m	0.482	ug/L	
25) Chloroform	4.43	83	16593	0.518	ug/L	95
27) 1,2-Dichloroethane	5.19	62	8244m	0.442	ug/L	
29) 1,1,1-Trichloroethane	4.66	97	10499	0.427	ug/L	97
30) Cyclohexane	4.72	56	9681	0.383	ug/L #	94
31) Carbon tetrachloride	4.87	117	9006	0.419	ug/L	99
33) Benzene	5.14	78	24852	0.408	ug/L	100
34) Trichloroethene	5.96	95	6973	0.412	ug/L	97
35) Methylcyclohexane	6.17	83	9522	0.371	ug/L	98
37) 1,2-Dichloropropane	6.22	63	6209	0.379	ug/L #	89
38) Bromodichloromethane	6.56	83	8638	0.420	ug/L #	99
39) cis-1,3-Dichloropropene	7.07	75	8383	0.401	ug/L	97
40) 4-Methyl-2-pentanone	7.29	43	33012	3.514	ug/L	95

M.D 09/13/19

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 06 02:40:30 2019
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.531

Manual Integrations
APPROVED

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9/6/2019 3:56:27 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
42) Toluene	7.43	91	23897	0.360	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	5709	0.343	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	4913	0.479	ug/L	93
47) Tetrachloroethene	8.02	164	4999	0.411	ug/L	93
48) 2-Hexanone	8.20	43	21248	3.210	ug/L #	96
49) Dibromochloromethane	8.29	129	4705	0.391	ug/L	93
50) 1,2-Dibromoethane	8.40	107	3829	0.418	ug/L #	94
51) Chlorobenzene	8.93	112	16073	0.388	ug/L	95
52) Ethylbenzene	9.05	91	25207	0.352	ug/L	97
53) m,p-xylene	9.18	106	8483	0.325	ug/L	86
54) o-xylene	9.59	106	8208	0.334	ug/L	96
55) Styrene	9.60	104	11655	0.278	ug/L	98
56) Isopropylbenzene	9.97	105	20140	0.298	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	4360	0.384	ug/L #	91
59) 1,2,3-Trichloropropane	10.32	75	4185	0.459	ug/L	98
61) Bromoform	9.78	173	2381	0.496	ug/L #	94
62) 1,3-Dichlorobenzene	11.23	146	10718	0.423	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	10669	0.412	ug/L	94
65) 1,2-Dichlorobenzene	11.69	146	10202	0.438	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.48	75	724	0.463	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.69	180	6811	0.371	ug/L	94
68) 1,2,4-trichlorobenzene	13.31	180	4706	0.358	ug/L	99
69) Naphthalene	13.56	128	4903	0.253	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.80	180	3881	0.322	ug/L	99

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