

Data File : VV010898.D
Acq On : 15 May 2019 13:28
Operator : SY/MD
Sample : K2788-11
Misc : 5.98G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51A0

Quant Time: May 16 07:29:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Thu May 16 07:25:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	122826	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	129483	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	57383	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	34922	22.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.28%
7) Chloroethane-d5	1.57	69	26662	26.14	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.56%
10) 1,1-Dichloroethene-d2	2.13	63	53699	18.13	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.52%
20) 2-Butanone-d5	3.93	46	35575	72.26	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	144.52%#
24) Chloroform-d	4.40	84	82333	23.22	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.88%
26) 1,2-Dichloroethane-d4	5.08	65	51497	25.54	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.16%
29) Benzene-d6	5.10	84	160788	22.43	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.72%
33) 1,2-Dichloropropane-d6	6.12	67	54575	23.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.48%
37) Toluene-d8	7.36	98	147002	21.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.36%
38) trans-1,3-Dichloropropene-	7.66	79	21512	21.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.28%
39) 2-Hexanone-d5	8.13	63	29473	68.02	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	136.04%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	60765	28.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	114.60%
61) 1,2-Dichlorobenzene-d4	11.67	152	59807	24.95	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.80%

Target Compounds

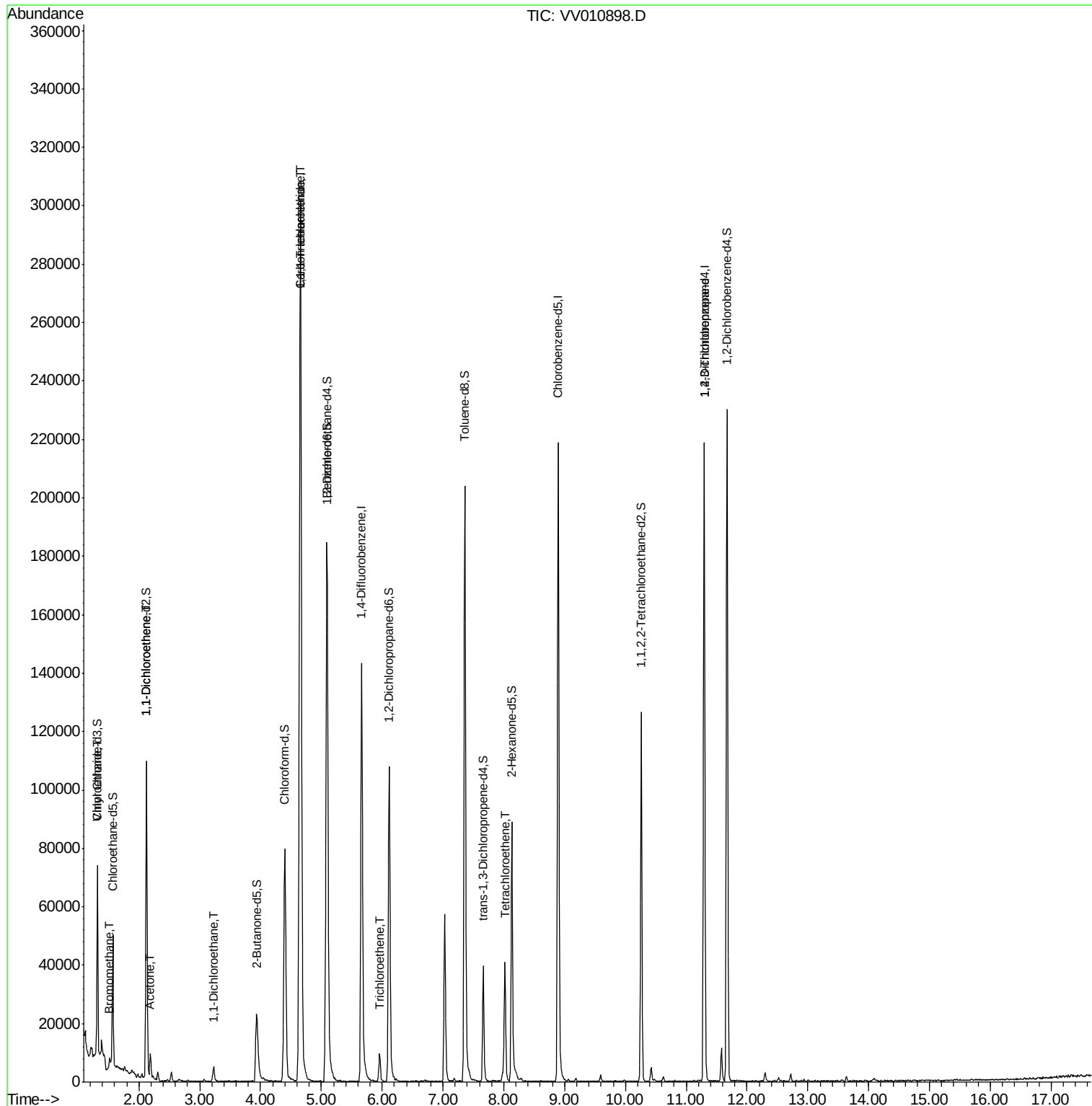
					Qvalue
6) Bromomethane	1.52	94	468	1.148 ug/L	88
8) Chloroethane	1.32	64	7095	7.807 ug/L	83
12) 1,1-Dichloroethene	2.14	96	2236	1.580 ug/L #	1
13) Acetone	2.19	43	6444	12.850 ug/L	92
19) 1,1-Dichloroethane	3.23	63	5143	1.576 ug/L #	94
31) 1,1,1-Trichloroethane	4.66	97	244136	86.811 ug/L	98
32) Carbon tetrachloride	4.66	117	31544	13.144 ug/L	97
35) Trichloroethene	5.96	95	3194	1.633 ug/L	94
47) Tetrachloroethene	8.02	164	9153	6.333 ug/L	97
59) 1,2,3-Trichloropropane	11.30	75	7732	4.881 ug/L	99

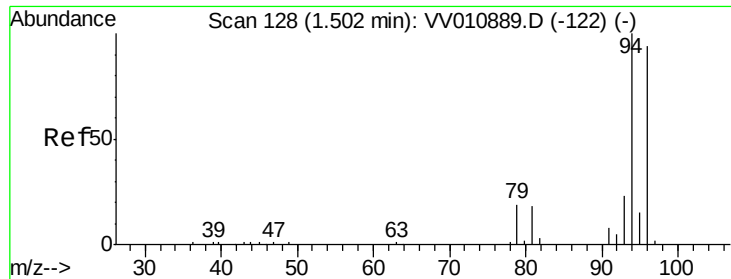
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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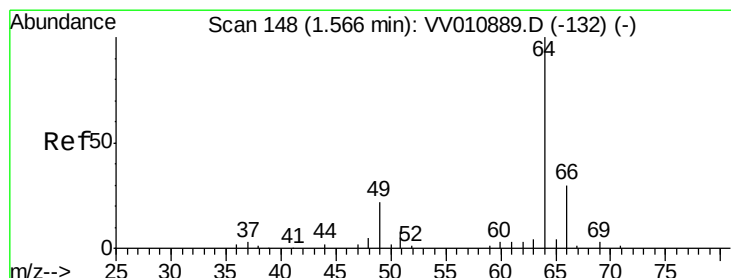
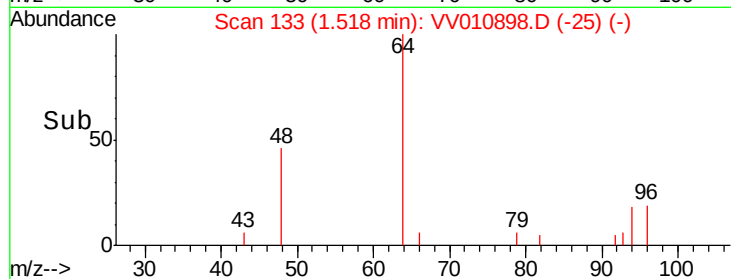
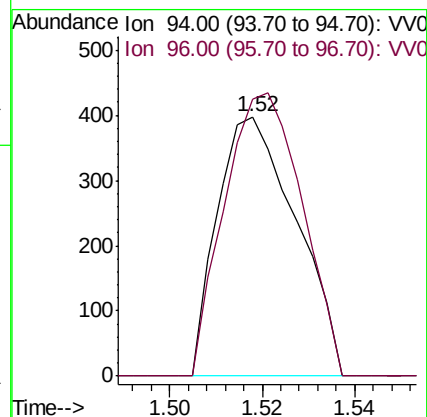
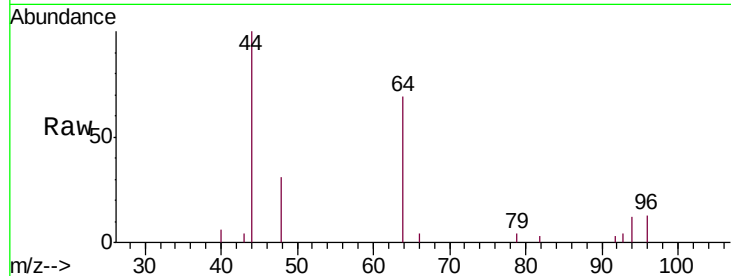




#6
Bromomethane
Concen: 1.148 ug/L
RT: 1.52 min Scan# 133
Delta R.T. 0.02 min
Lab File: VV010898.D
Acq: 15 May 2019 13:28

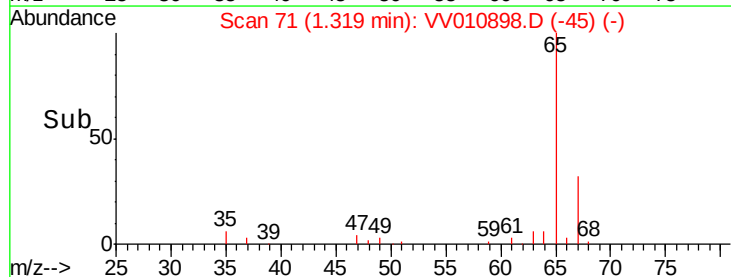
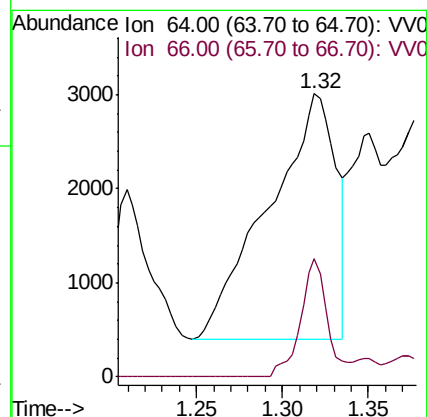
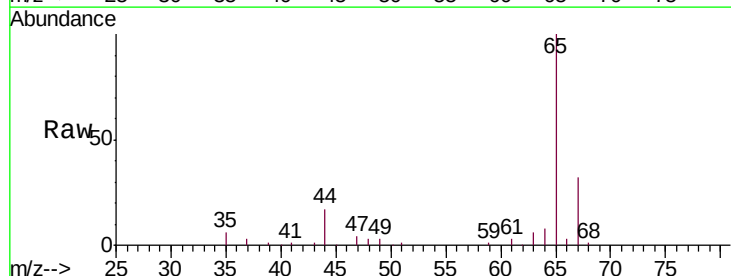
Instrument :
MSVOA_V
ClientSampleId :
A51A0

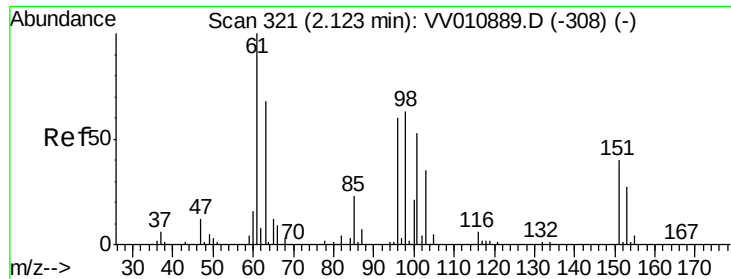
Tgt Ion: 94 Resp: 468
Ion Ratio Lower Upper
94 100
96 107.7 9.6 181.6



#8
Chloroethane
Concen: 7.807 ug/L
RT: 1.32 min Scan# 71
Delta R.T. -0.25 min
Lab File: VV010898.D
Acq: 15 May 2019 13:28

Tgt Ion: 64 Resp: 7095
Ion Ratio Lower Upper
64 100
66 41.8 22.5 41.9

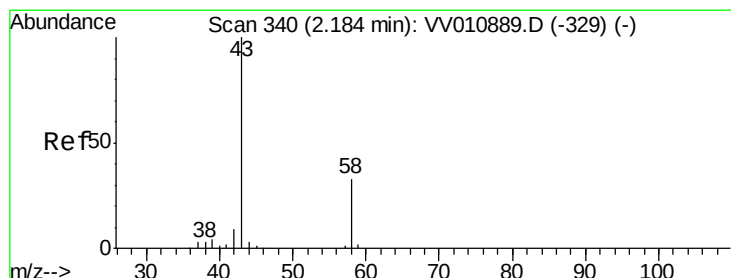
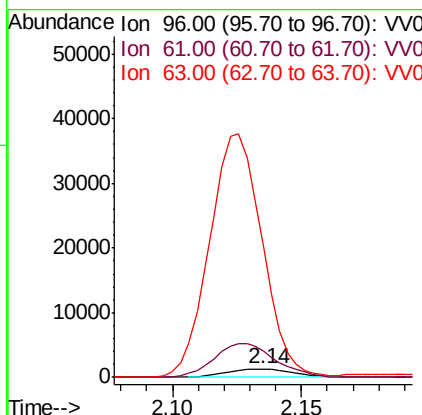
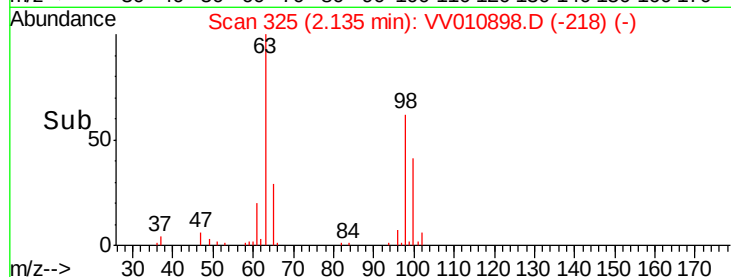
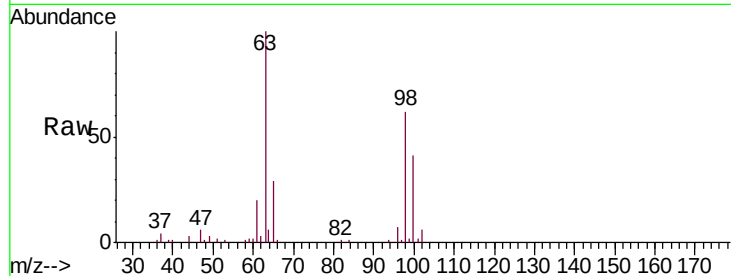




#12
 1,1-Dichloroethene
 Concen: 1.580 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: VV010898.D
 Acq: 15 May 2019 13:28

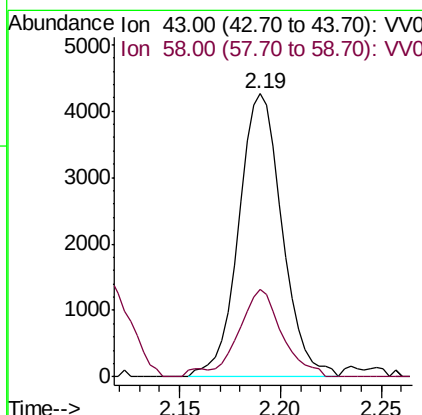
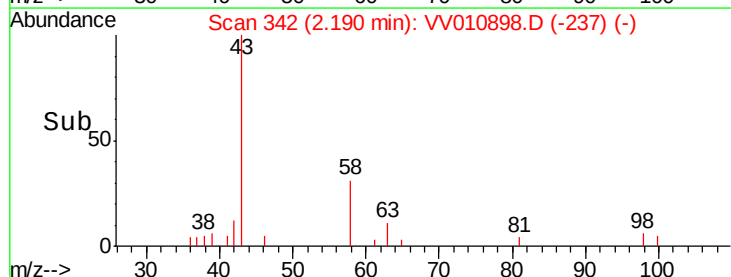
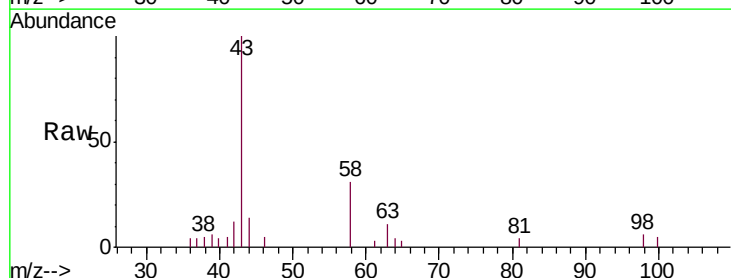
Instrument :
 MSVOA_V
 ClientSampleId :
 A51A0

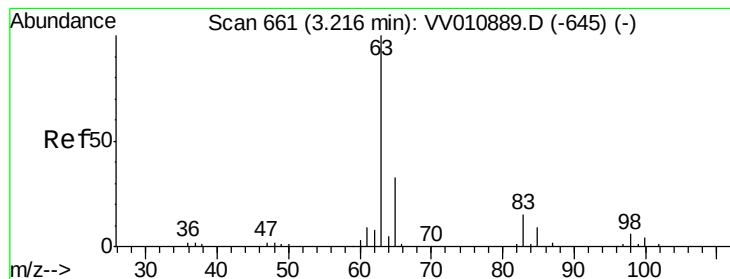
Tgt Ion: 96 Resp: 2236
 Ion Ratio Lower Upper
 96 100
 61 304.5 117.5 218.3#
 63 1523.8 82.8 153.8#



#13
 Acetone
 Concen: 12.850 ug/L
 RT: 2.19 min Scan# 342
 Delta R.T. 0.01 min
 Lab File: VV010898.D
 Acq: 15 May 2019 13:28

Tgt Ion: 43 Resp: 6444
 Ion Ratio Lower Upper
 43 100
 58 30.2 0.0 69.2





#19

1,1-Dichloroethane

Concen: 1.576 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.02 min

Lab File: VV010898.D

Acq: 15 May 2019 13:28

Instrument :

MSVOA_V

ClientSampleId :

A51A0

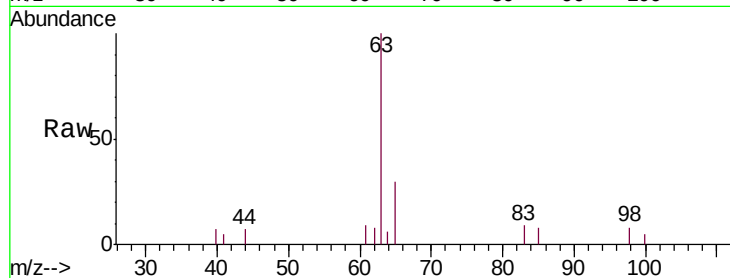
Tgt Ion: 63 Resp: 5143

Ion Ratio Lower Upper

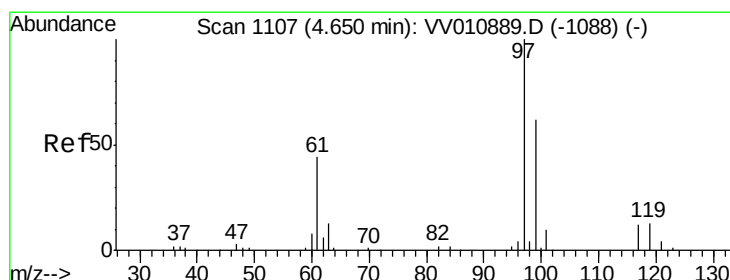
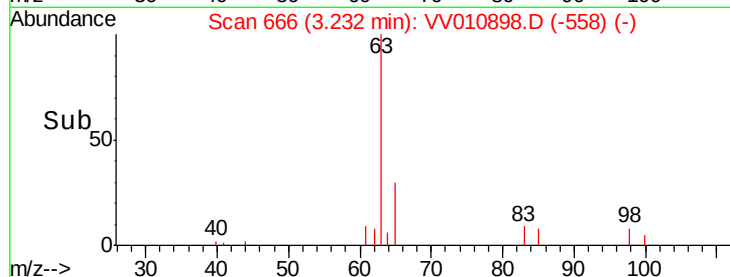
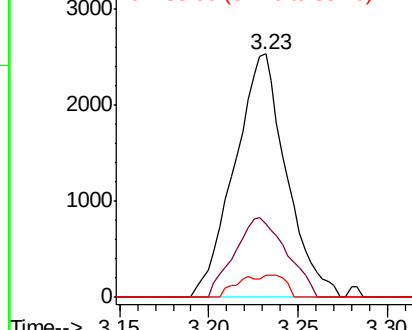
63 100

65 29.9 22.1 41.1

83 9.0 9.7 17.9#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#31

1,1,1-Trichloroethane

Concen: 86.811 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VV010898.D

Acq: 15 May 2019 13:28

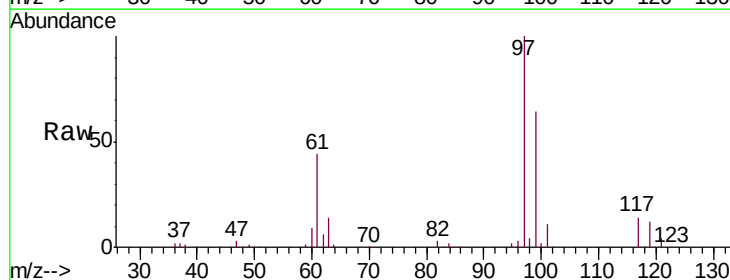
Tgt Ion: 97 Resp: 244136

Ion Ratio Lower Upper

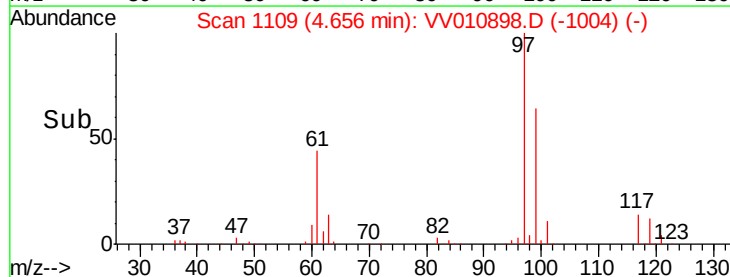
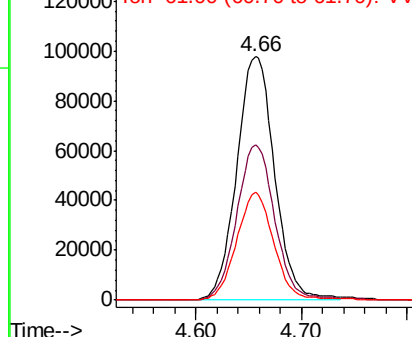
97 100

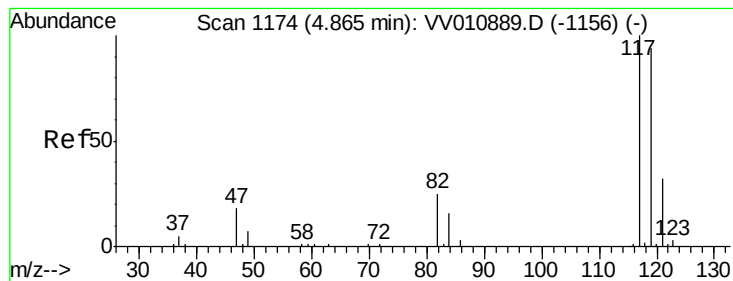
99 64.1 49.4 74.2

61 43.4 34.6 51.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 13.144 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.21 min

Lab File: VV010898.D

Acq: 15 May 2019 13:28

Instrument :

MSVOA_V

ClientSampled :

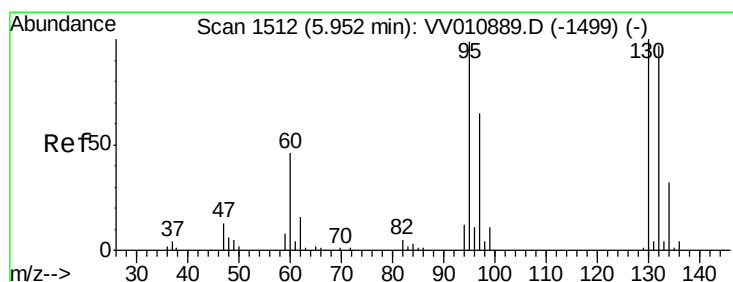
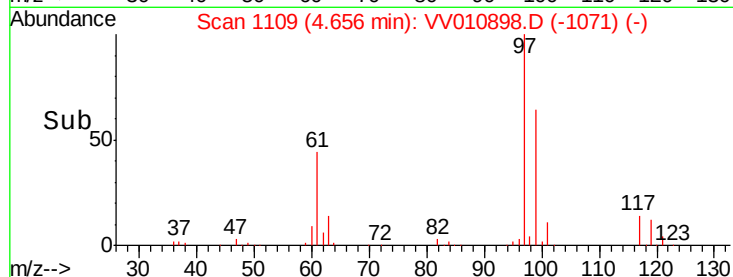
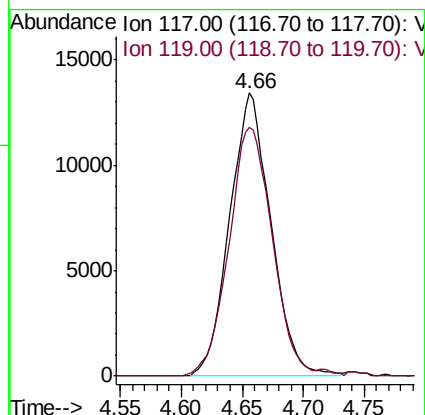
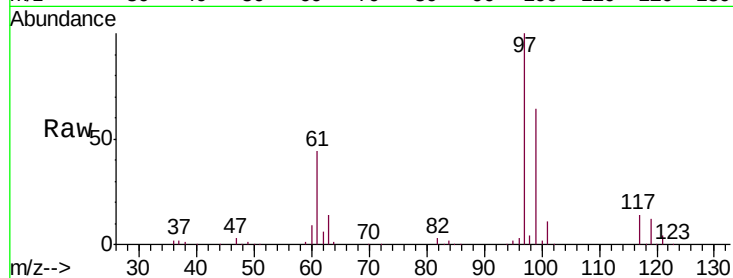
A51A0

Tgt Ion:117 Resp: 31544

Ion Ratio Lower Upper

117 100

119 92.3 76.5 114.7



#35

Trichloroethene

Concen: 1.633 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VV010898.D

Acq: 15 May 2019 13:28

Tgt Ion: 95 Resp: 3194

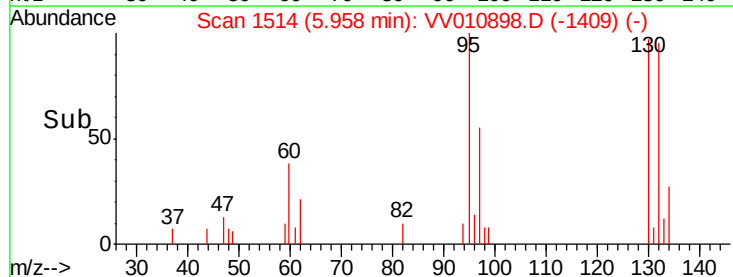
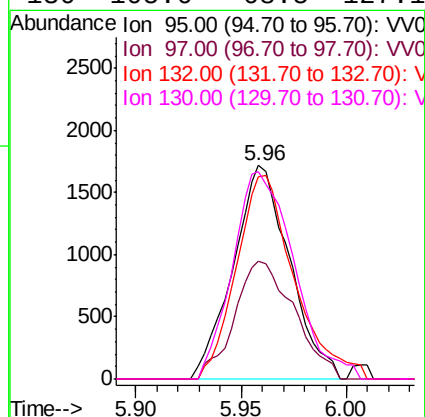
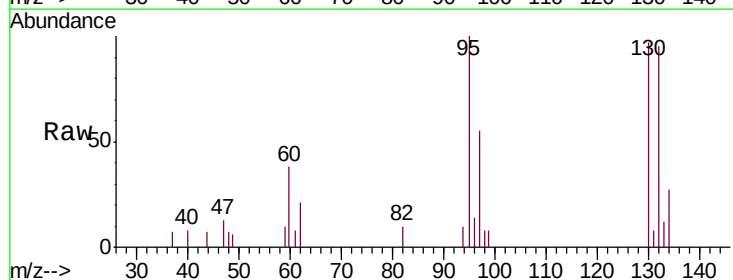
Ion Ratio Lower Upper

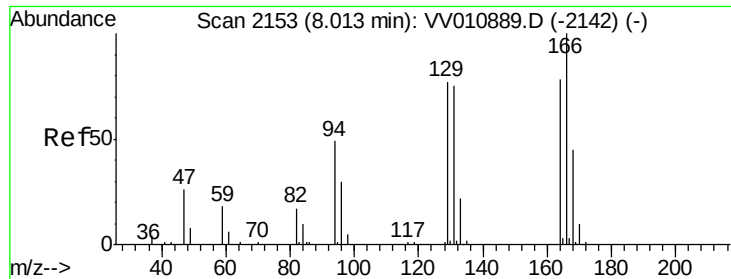
95 100

97 58.2 46.0 85.4

132 98.1 67.4 125.2

130 105.6 68.5 127.1





#47

Tetrachloroethene

Concen: 6.333 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV010898.D

Acq: 15 May 2019 13:28

Instrument :

MSVOA_V

ClientSampleId :

A51A0

Tgt Ion:164 Resp: 9153

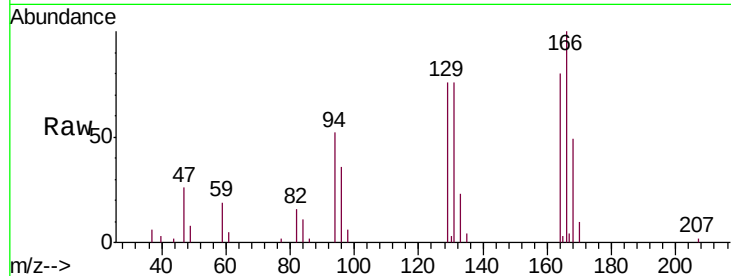
Ion Ratio Lower Upper

164 100

129 95.5 67.6 125.6

131 95.5 65.1 120.9

166 125.8 84.8 157.6



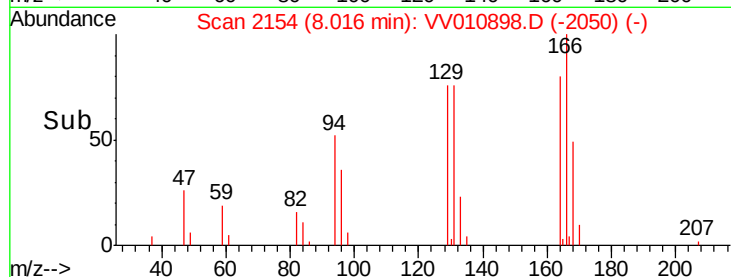
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->



Abundance

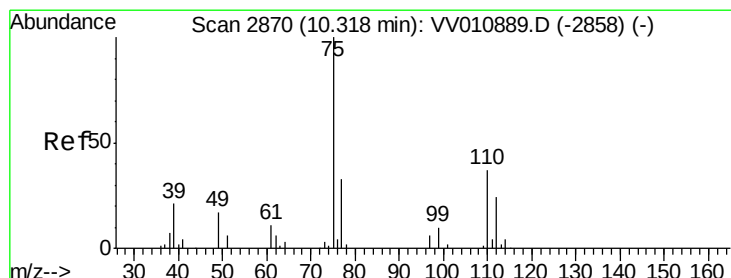
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->



#59

1,2,3-Trichloropropane

Concen: 4.881 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV010898.D

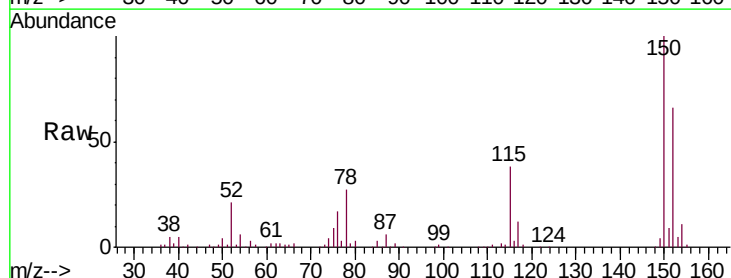
Acq: 15 May 2019 13:28

Tgt Ion: 75 Resp: 7732

Ion Ratio Lower Upper

75 100

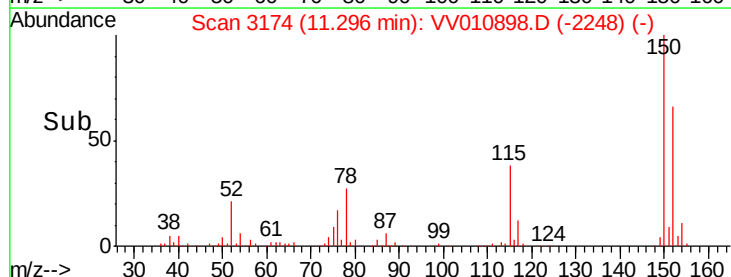
77 33.8 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Time-->



Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Time-->