

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013024.D
 Acq On : 11 Oct 2019 18:17
 Operator : JC/SP
 Sample : K5312-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0560

Quant Time: Oct 11 23:28:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	289986	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	249717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101844	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	112546	51.56	ug/l	0.00
Spiked Amount						
			Recovery	=	103.12%	
35) Dibromofluoromethane	5.49	113	85041	51.10	ug/l	0.00
Spiked Amount						
			Recovery	=	102.20%	
50) Toluene-d8	8.71	98	338759	52.19	ug/l	0.00
Spiked Amount						
			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	11.14	95	117957	46.77	ug/l	0.00
Spiked Amount						
			Recovery	=	93.54%	

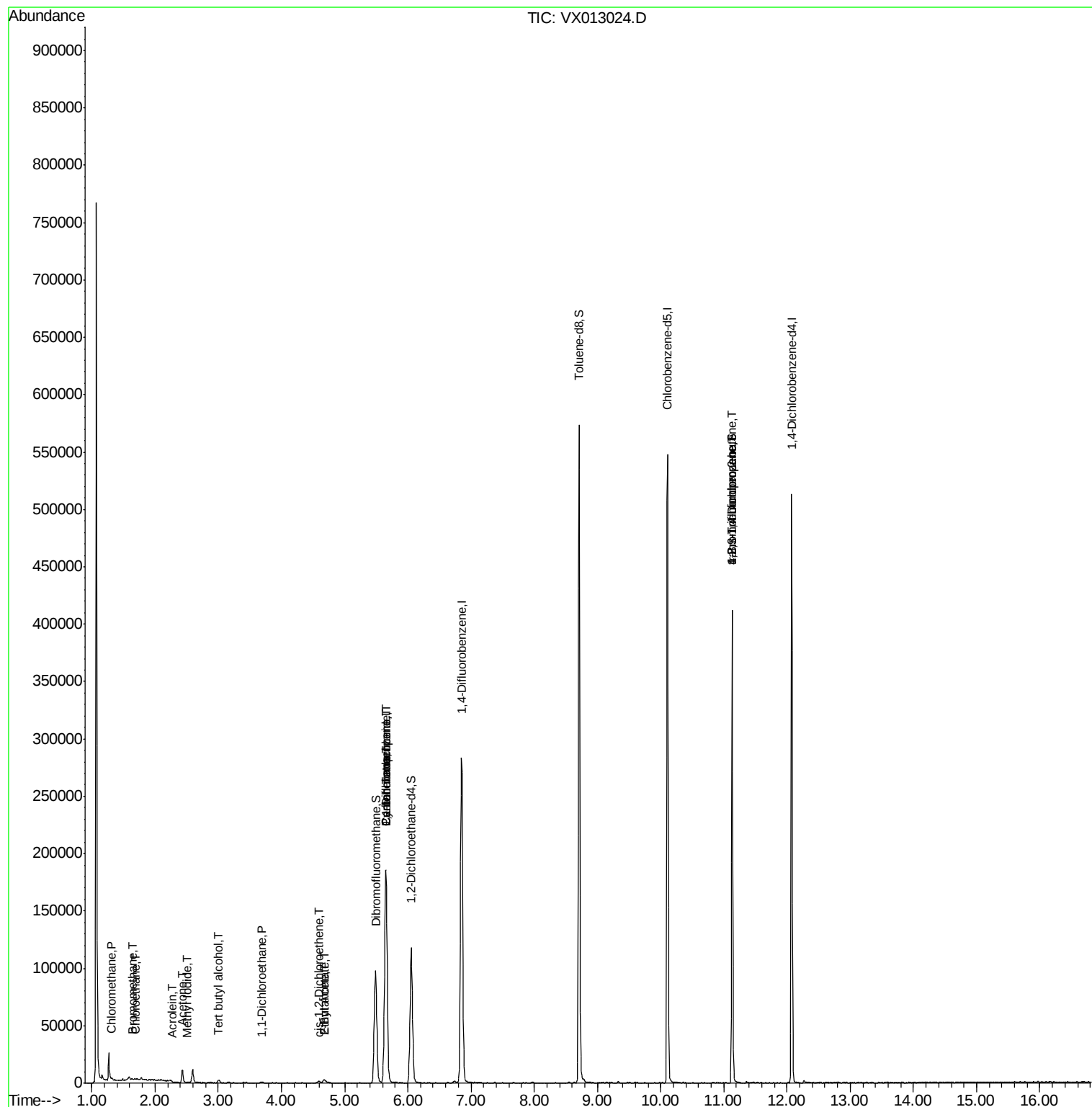
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	931	0.481	ug/l #	83
5) Bromomethane	1.64	94	243	0.292	ug/l	96
6) Chloroethane	1.69	64	206	0.535	ug/l #	43
10) Methyl Iodide	2.50	142	86	5.121	ug/l #	40
11) Tert butyl alcohol	3.00	59	1924	3.325	ug/l #	72
13) Acrolein	2.28	56	83	0.202	ug/l #	45
16) Acetone	2.44	43	11404	9.911	ug/l	99
24) 1,1-Dichloroethane	3.69	63	816	0.241	ug/l #	81
25) 2-Butanone	4.67	43	2852	1.787	ug/l	94
27) cis-1,2-Dichloroethene	4.59	96	868	0.398	ug/l	91
31) Cyclohexane	5.65	56	3573	1.128	ug/l #	8
36) 1,1-Dichloropropene	5.65	75	14050	5.511	ug/l #	50
37) Ethyl Acetate	4.67	43	2852	1.000	ug/l #	67
38) Carbon Tetrachloride	5.65	117	18078	7.285	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	57003	25.235	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	57003	63.675	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

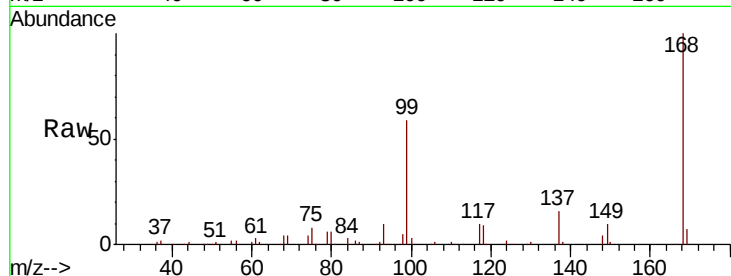
S49-0560

Tot Ion:168 Resp: 174648

Ion Ratio Lower Upper

168 100

99 58.8 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

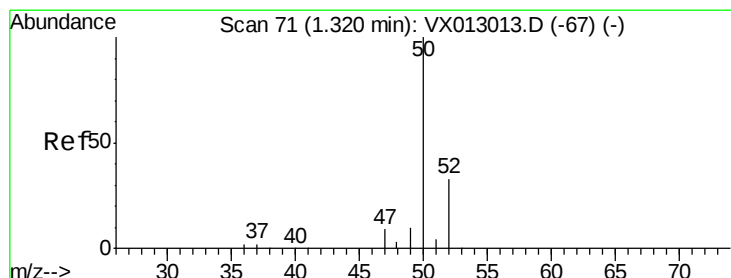
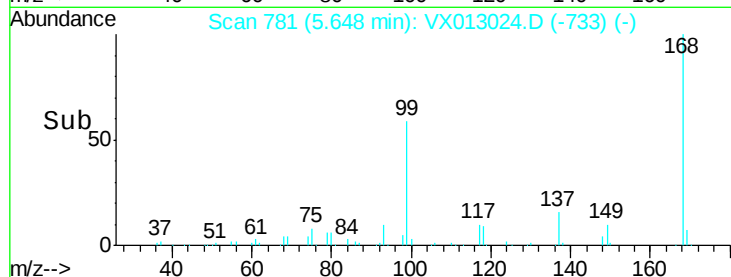
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.481 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013024.D

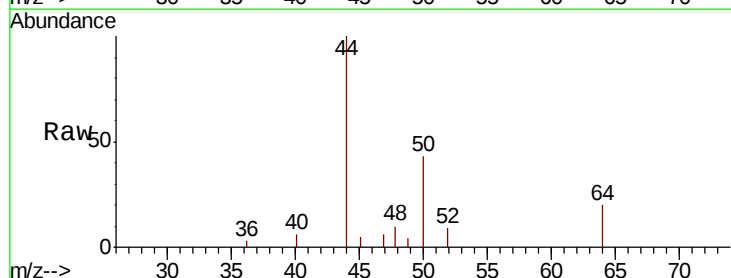
Acq: 11 Oct 2019 18:17

Tgt Ion: 50 Resp: 931

Ion Ratio Lower Upper

50 100

52 21.9 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

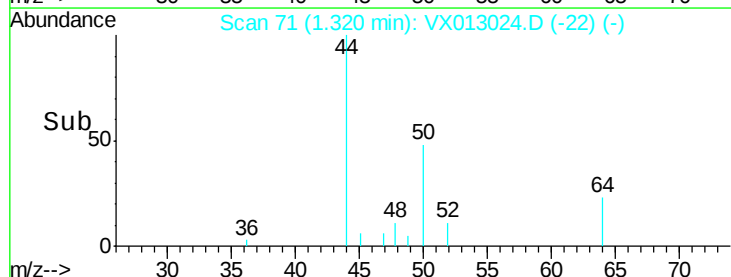
600

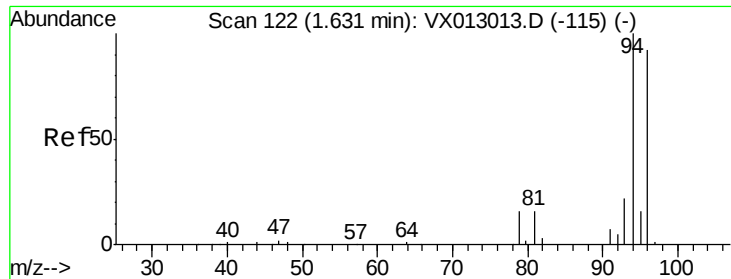
400

200

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.292 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

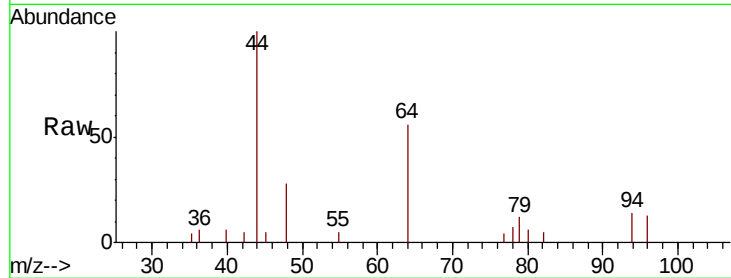
S49-0560

Tot Ion: 94 Resp: 243

Ion Ratio Lower Upper

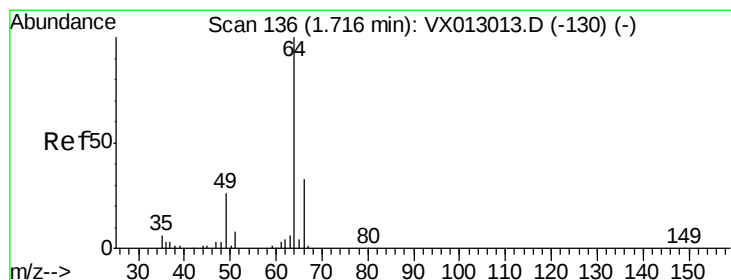
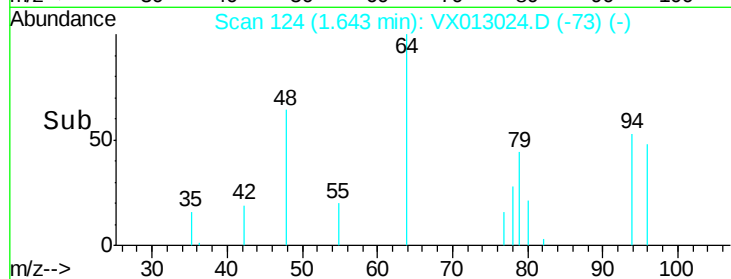
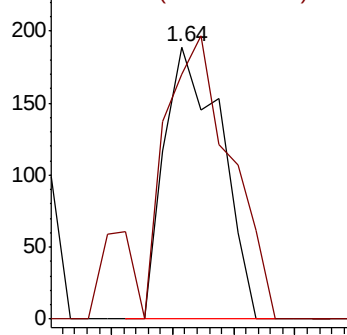
94 100

96 89.9 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.535 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013024.D

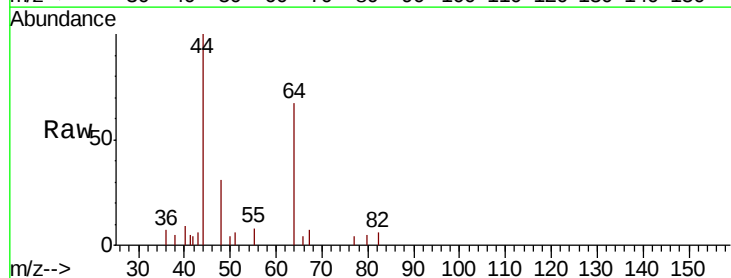
Acq: 11 Oct 2019 18:17

Tgt Ion: 64 Resp: 206

Ion Ratio Lower Upper

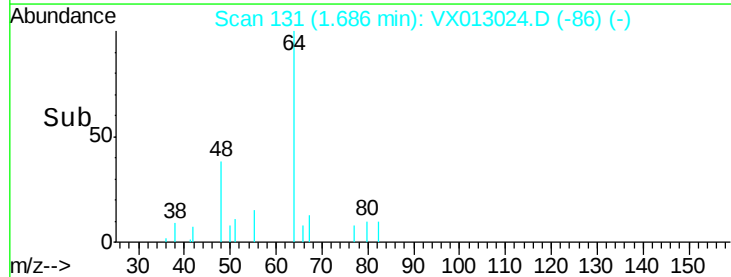
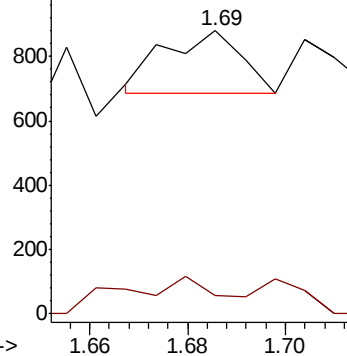
64 100

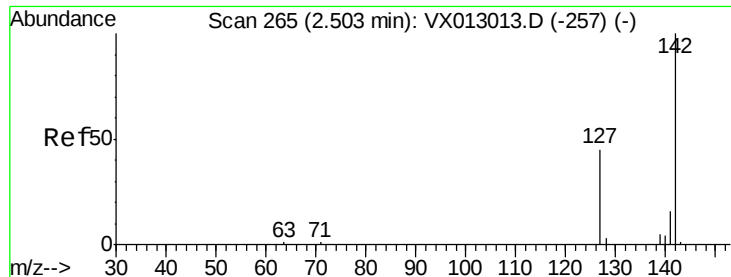
66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

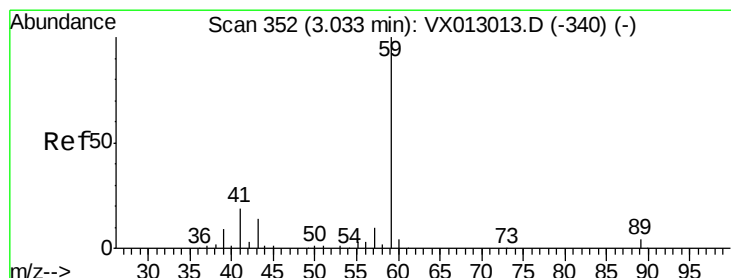
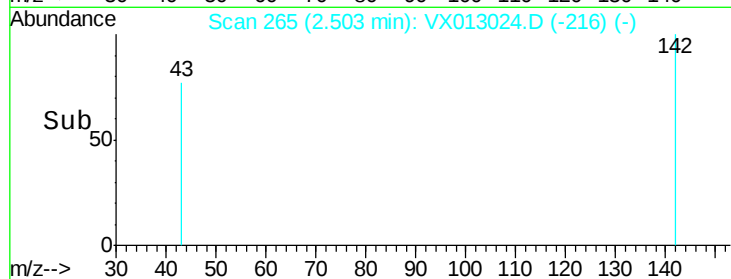
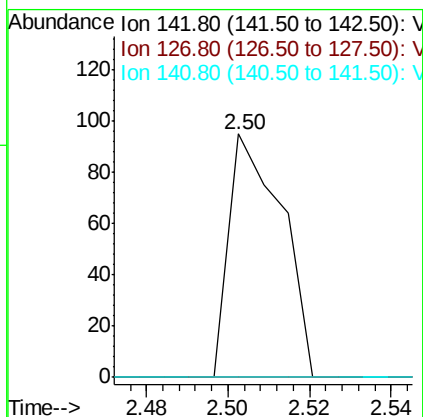
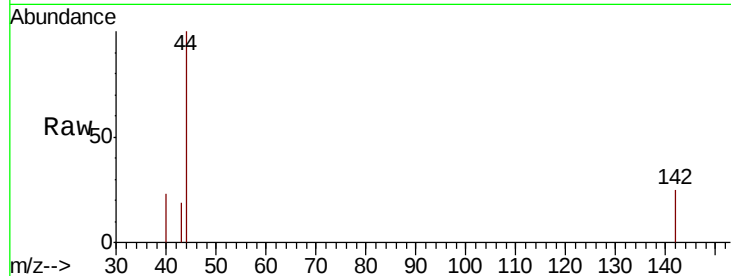




#10
Methvl Iodide
Concen: 5.121 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

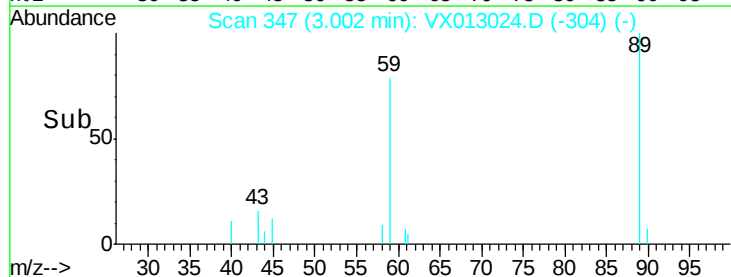
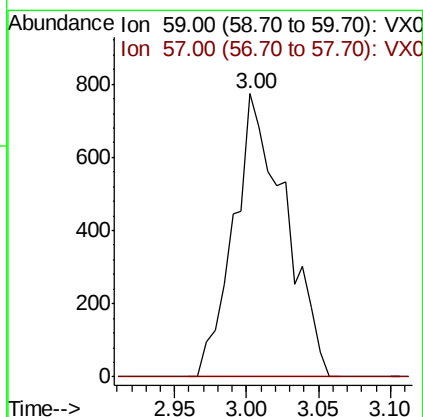
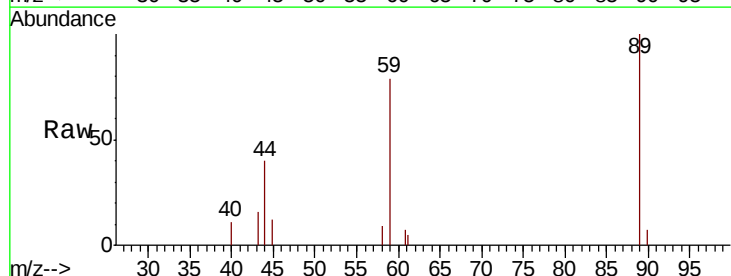
Instrument :
MSVOA_X
ClientSampled :
S49-0560

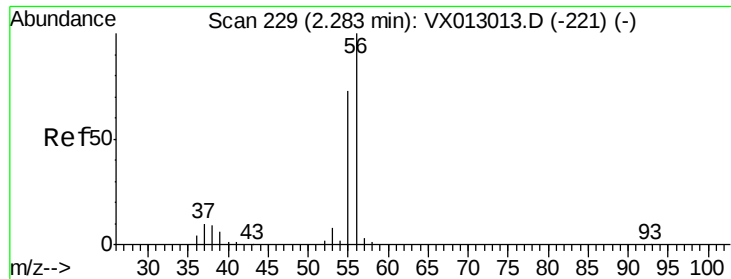
Tot Ion:142 Resp: 86
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 3.325 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

Tgt Ion: 59 Resp: 1924
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.202 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

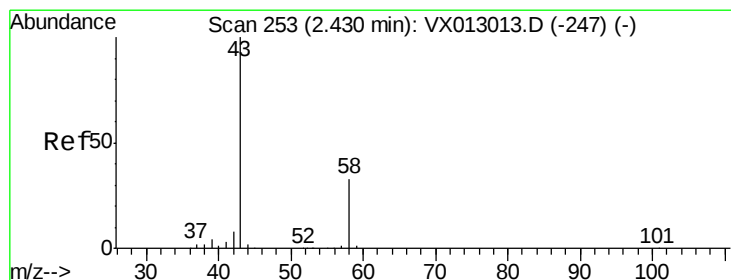
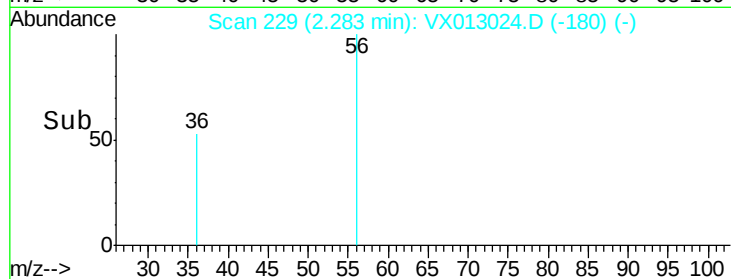
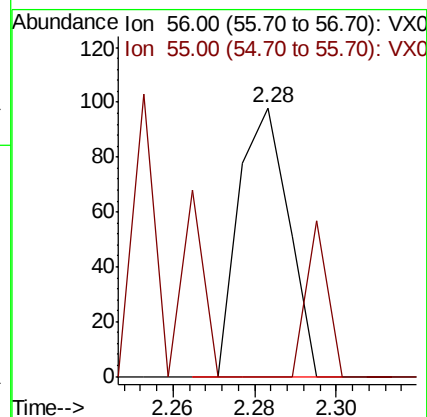
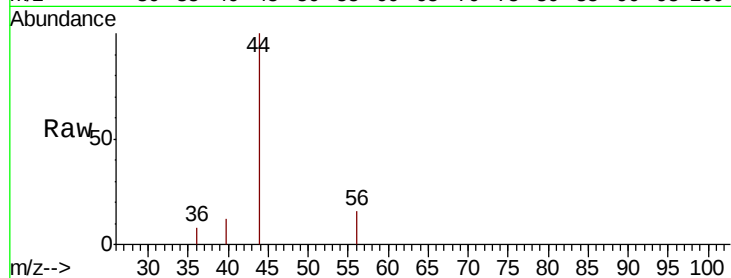
S49-0560

Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 25.3 56.6 85.0#



#16

Acetone

Concen: 9.911 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013024.D

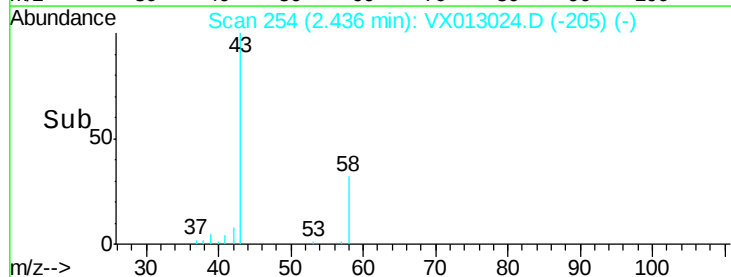
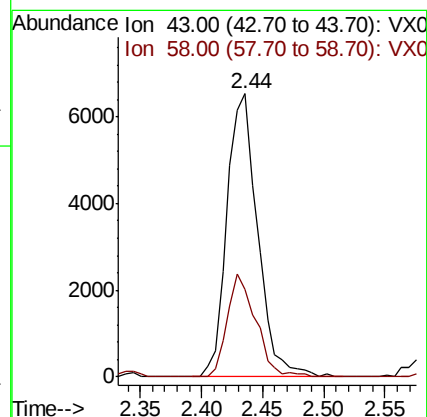
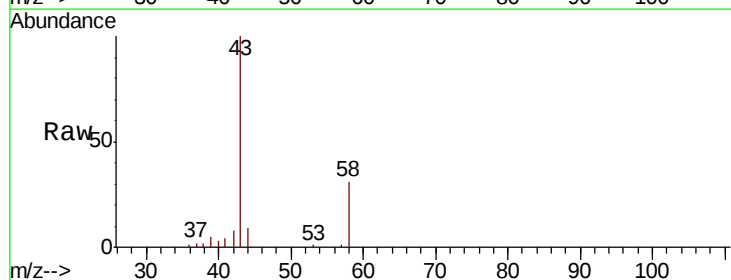
Acq: 11 Oct 2019 18:17

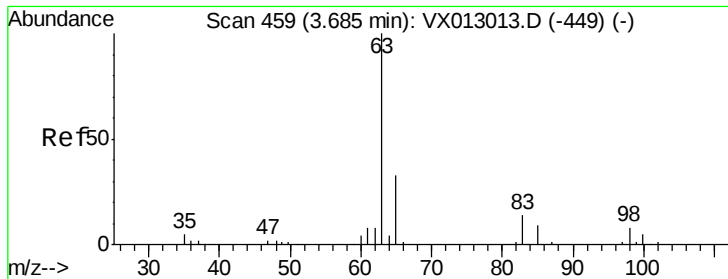
Tgt Ion: 43 Resp: 11404

Ion Ratio Lower Upper

43 100

58 31.1 25.4 38.2





#24

1,1-Dichloroethane

Concen: 0.241 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

S49-0560

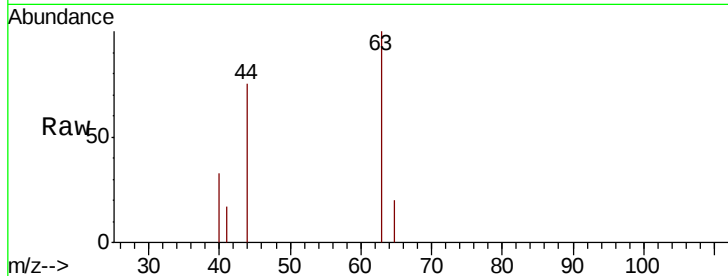
Tot Ion: 63 Resp: 816

Ion Ratio Lower Upper

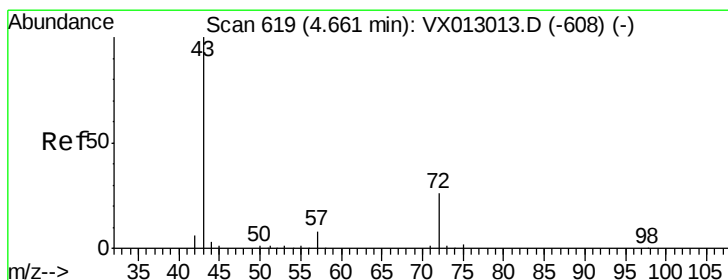
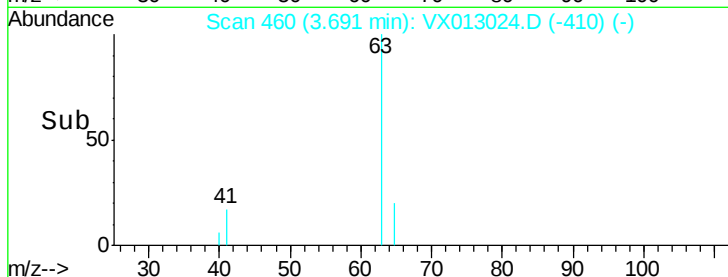
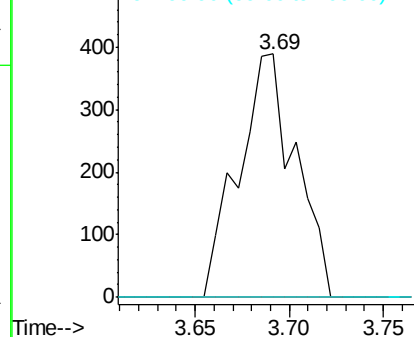
63 100

98 0.0 3.9 11.5#

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 1.787 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX013024.D

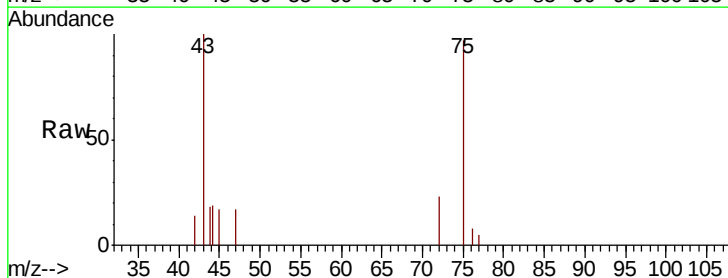
Acq: 11 Oct 2019 18:17

Tgt Ion: 43 Resp: 2852

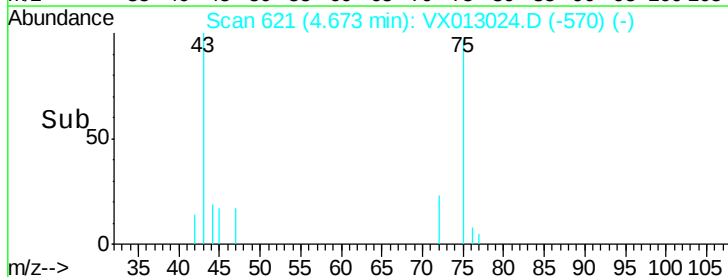
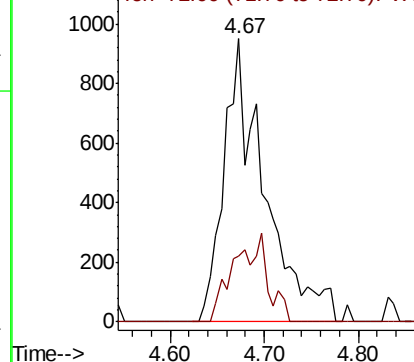
Ion Ratio Lower Upper

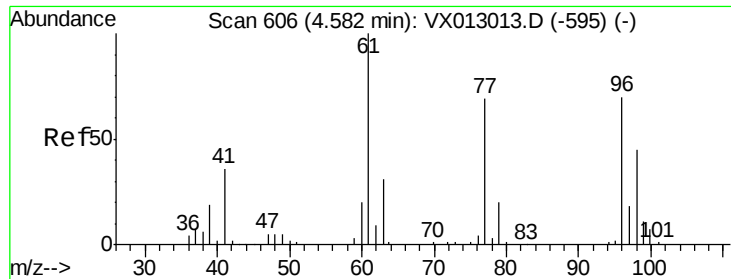
43 100

72 23.1 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



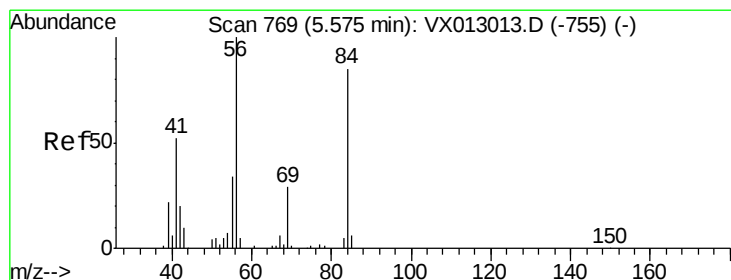
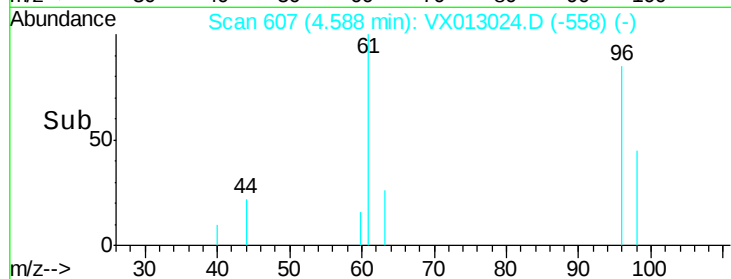
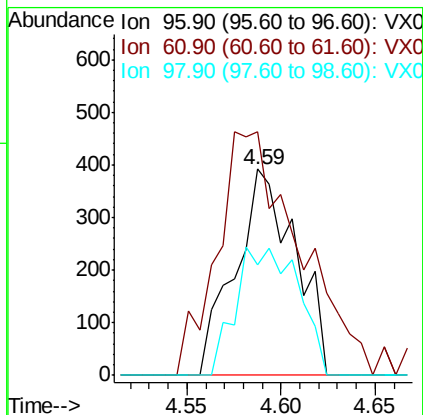
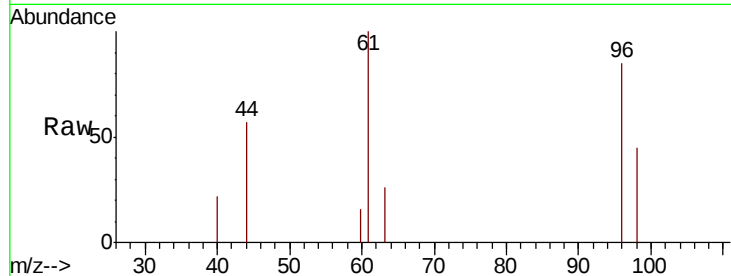


#27

cis-1,2-Dichloroethene
Concen: 0.398 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

Instrument :
MSVOA_X
ClientSampled :
S49-0560

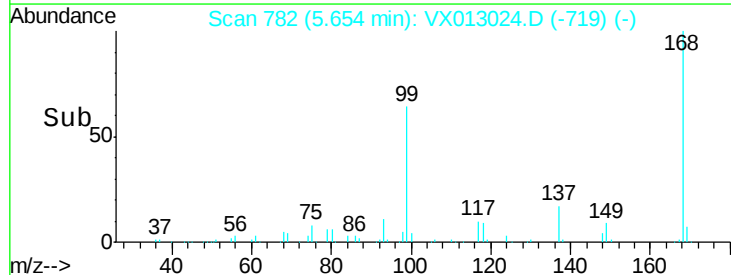
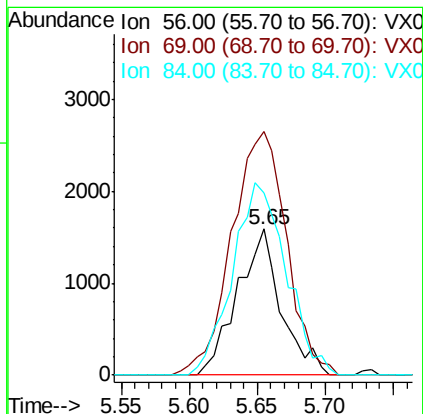
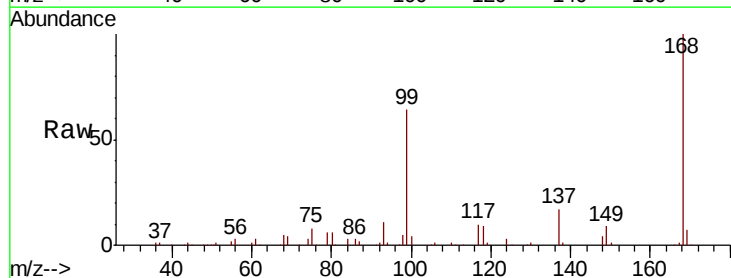
Tot Ion: 96 Resp: 868
Ion Ratio Lower Upper
96 100
61 161.5 0.0 290.6
98 64.6 0.0 128.8

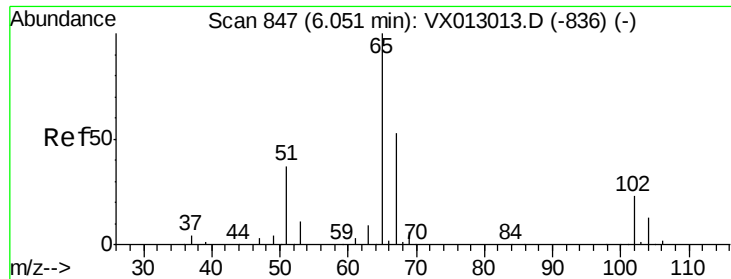


#31

Cyclohexane
Concen: 1.128 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

Tgt Ion: 56 Resp: 3573
Ion Ratio Lower Upper
56 100
69 167.0 25.2 37.8#
84 124.6 71.3 106.9#

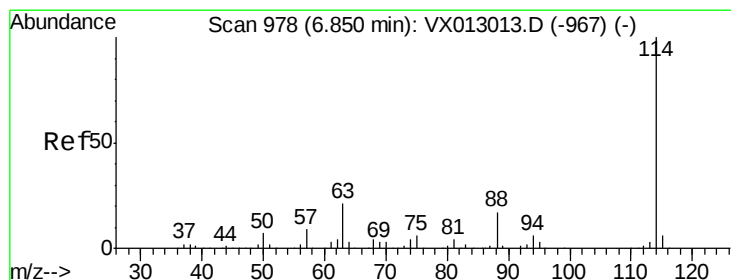
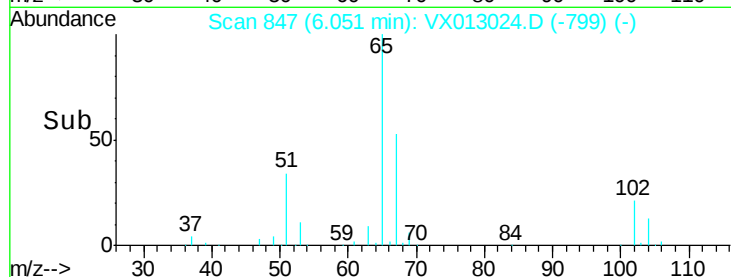
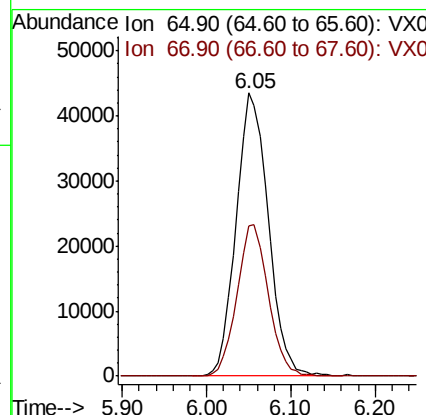
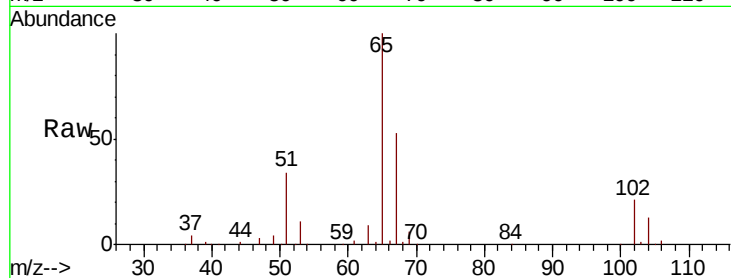




#33
 1,2-Dichloroethane-d4
 Concen: 51.559 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013024.D
 Acq: 11 Oct 2019 18:17

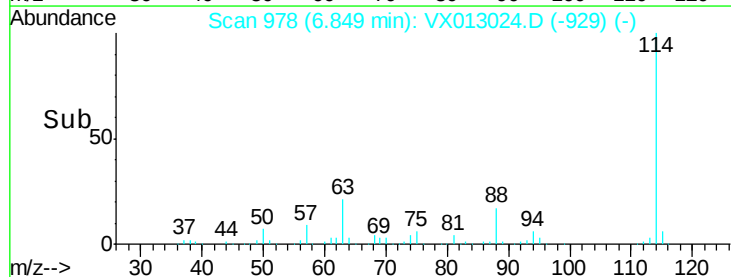
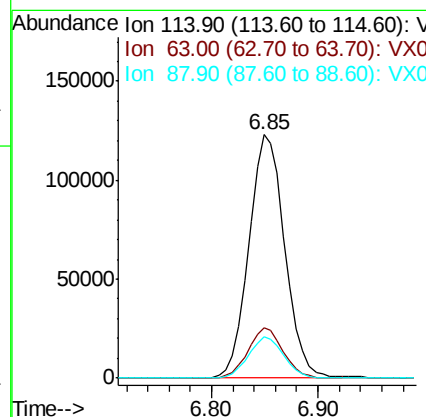
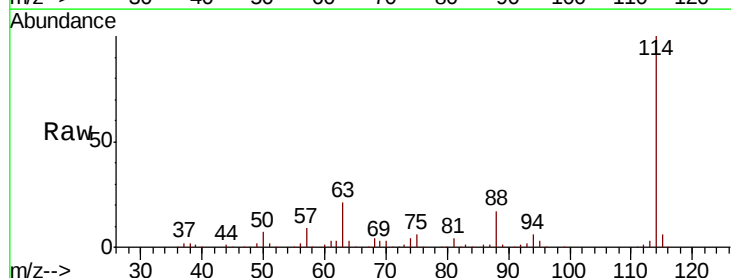
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0560

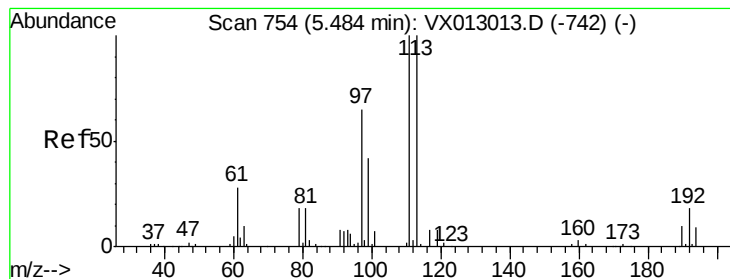
Tot Ion: 65 Resp: 112546
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013024.D
 Acq: 11 Oct 2019 18:17

Tgt Ion: 114 Resp: 289986
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.095 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

S49-0560

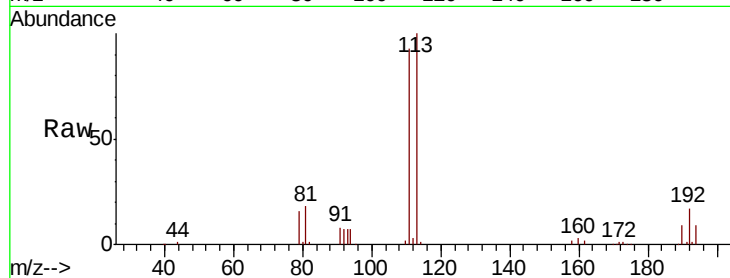
Tot Ion:113 Resp: 85041

Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

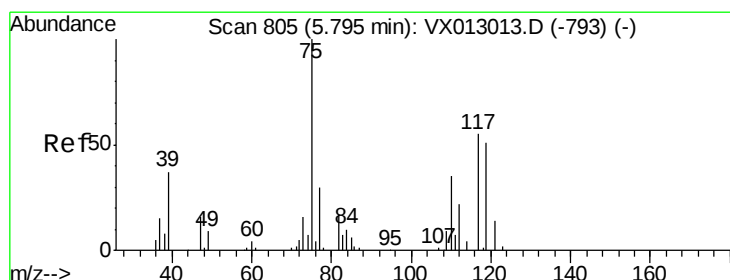
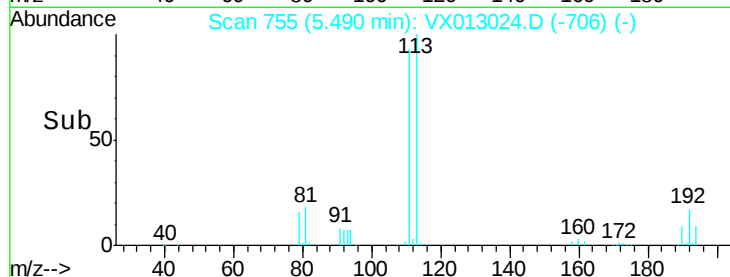
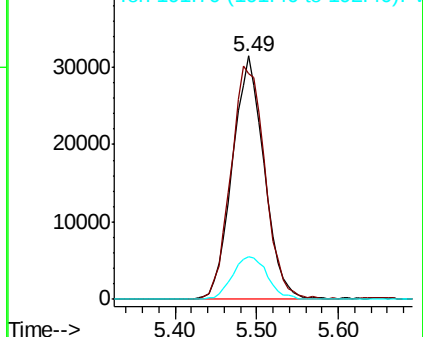
192 19.2 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.511 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

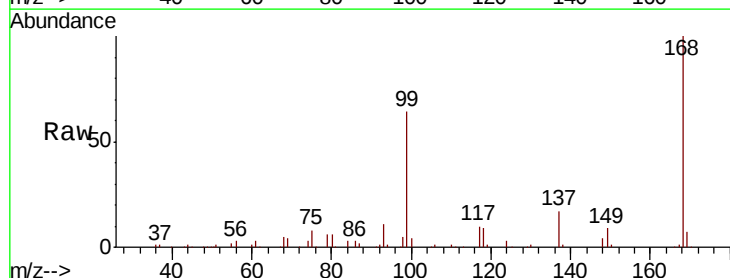
Tgt Ion: 75 Resp: 14050

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

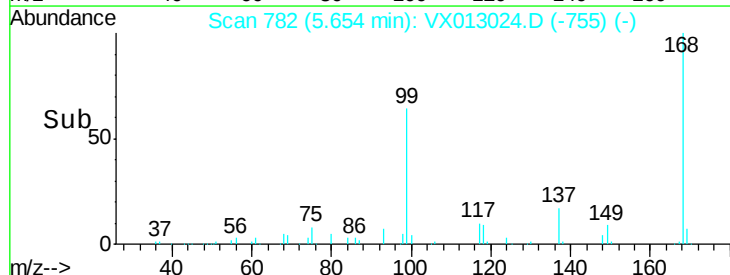
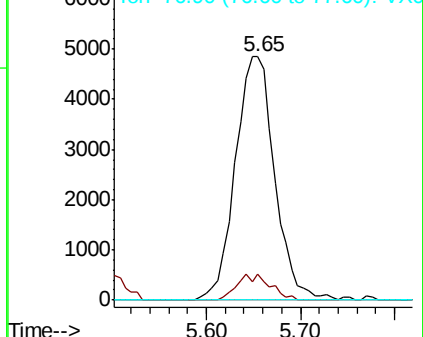
77 0.0 24.4 36.6#

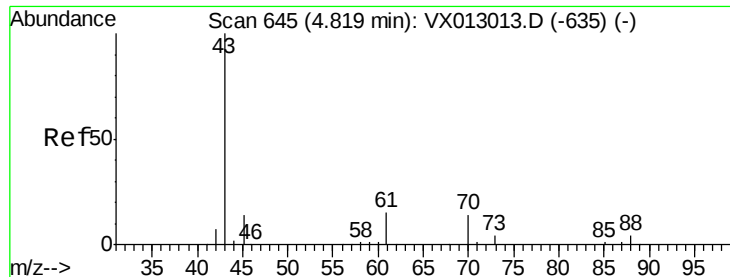


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.000 ug/l

RT: 4.67 min Scan# 621

Delta R.T. -0.15 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

S49-0560

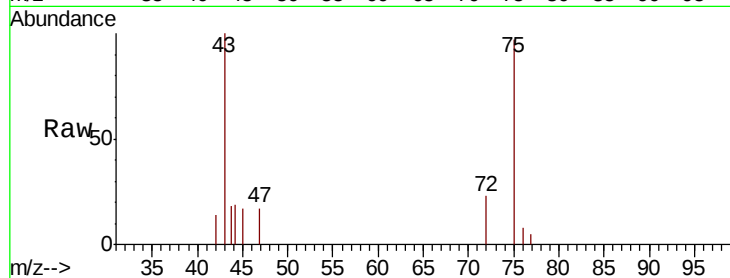
Tot Ion: 43 Resp: 2852

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

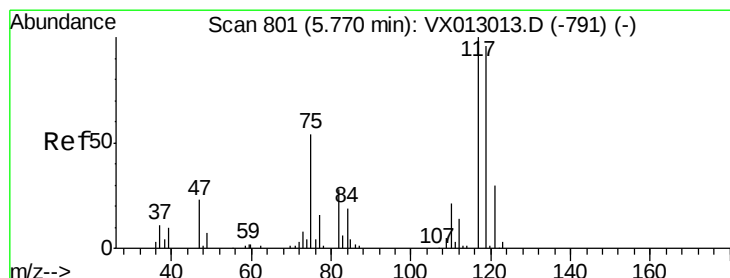
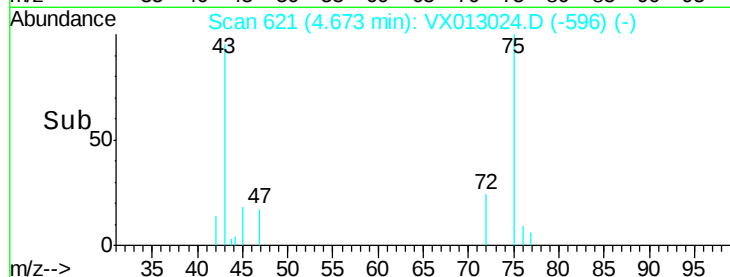
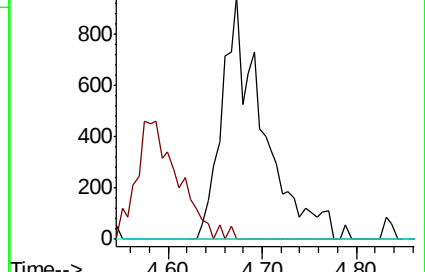
70 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 7.285 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

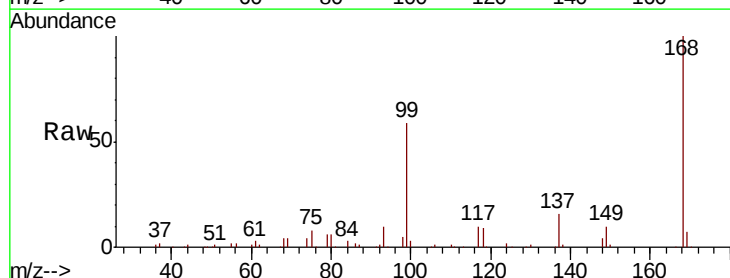
Tgt Ion: 117 Resp: 18078

Ion Ratio Lower Upper

117 100

119 4.5 74.5 111.7#

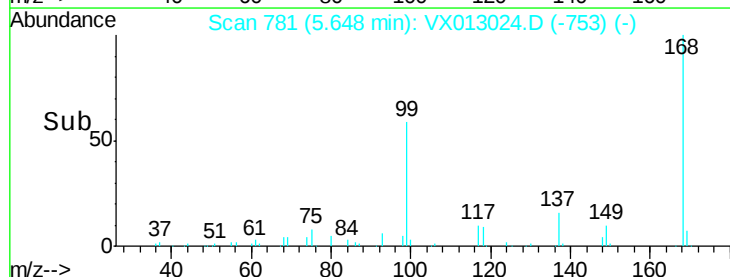
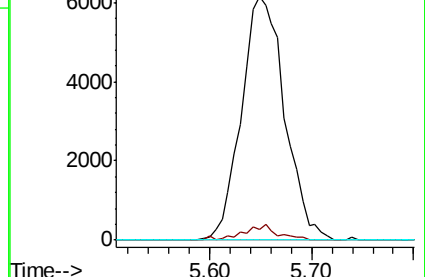
121 0.0 24.2 36.4#

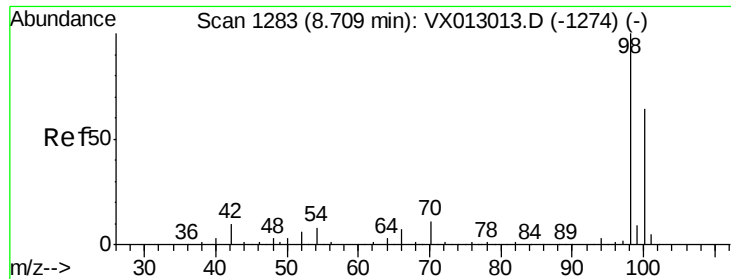


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

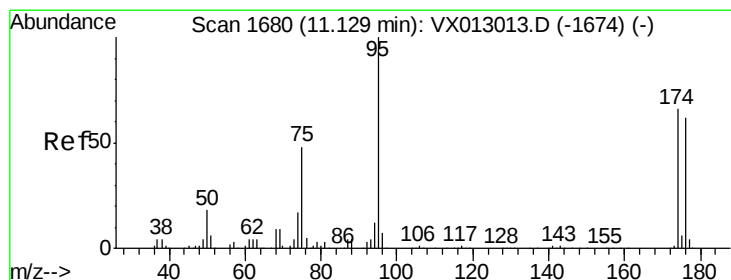
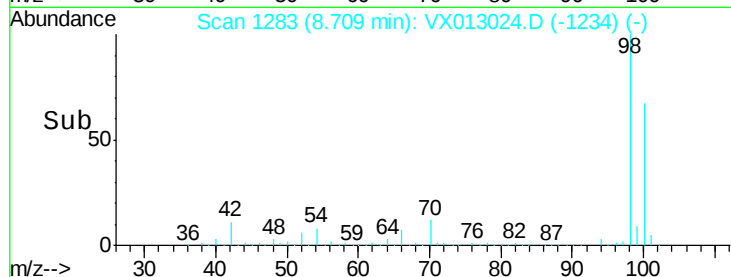
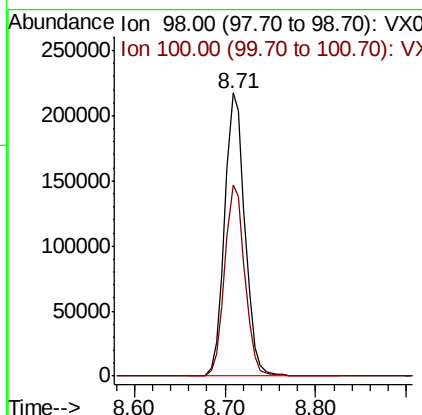
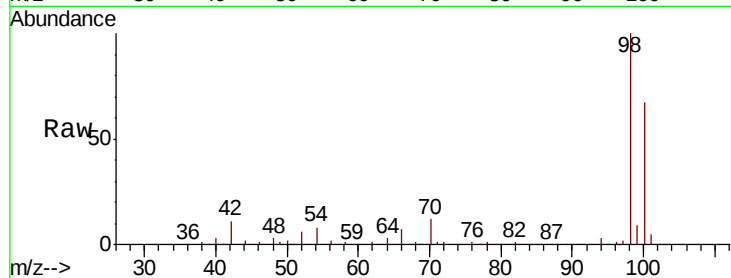




#50
Toluene-d8
Concen: 52.186 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

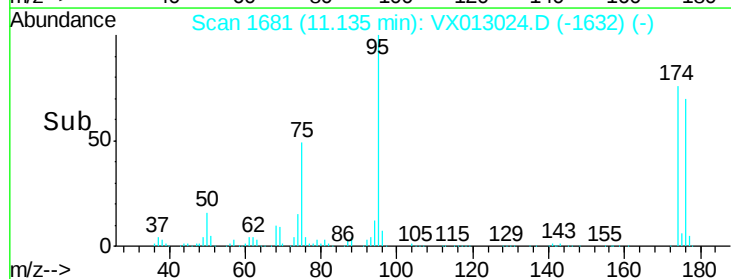
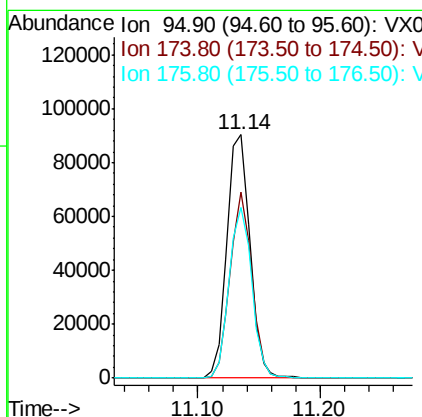
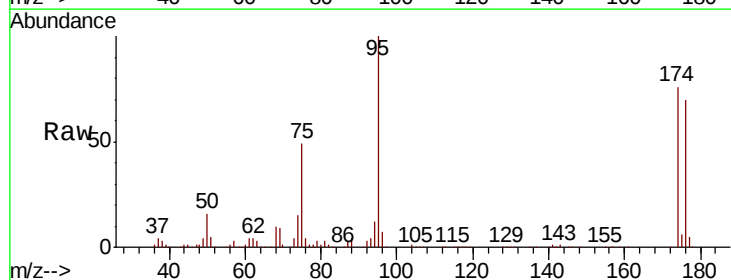
Instrument :
MSVOA_X
ClientSampleId :
S49-0560

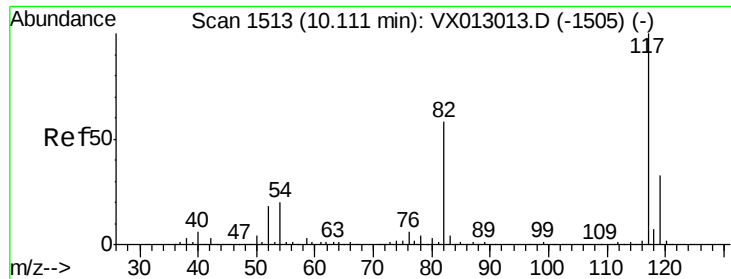
Tot Ion: 98 Resp: 338759
Ion Ratio Lower Upper
98 100
100 67.0 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 46.766 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

Tgt Ion: 95 Resp: 117957
Ion Ratio Lower Upper
95 100
174 72.1 0.0 143.4
176 69.0 0.0 136.0

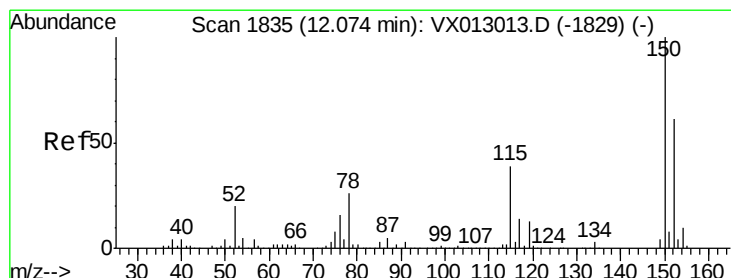
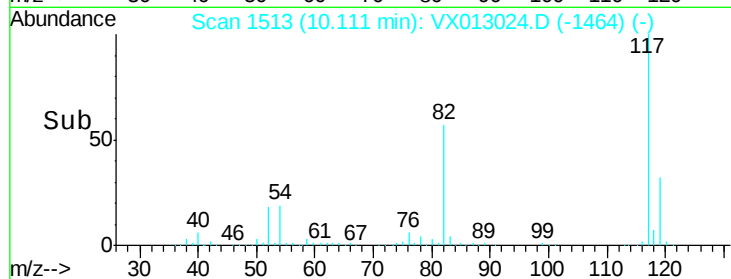
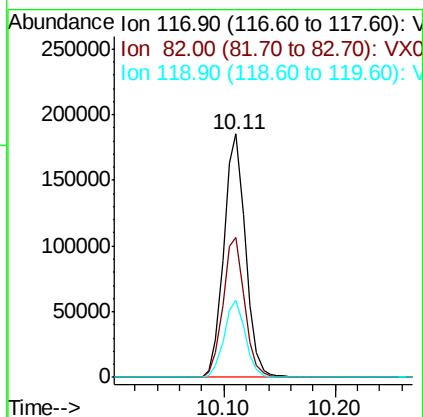
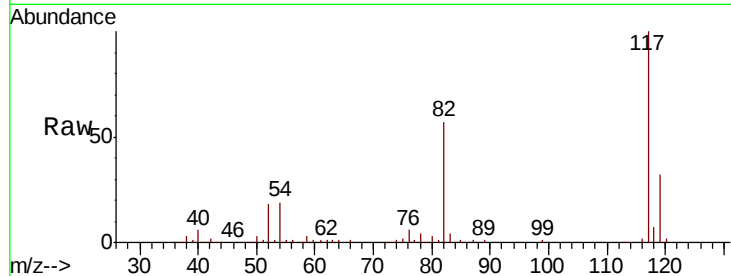




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

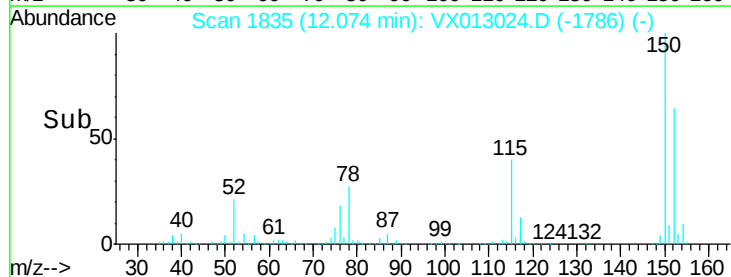
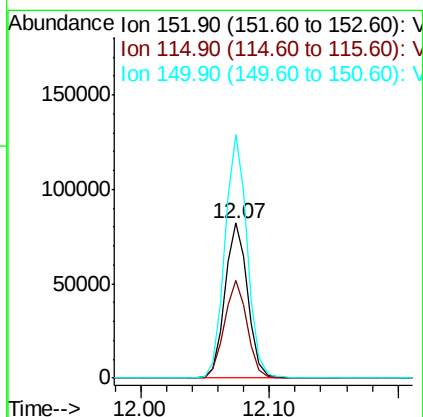
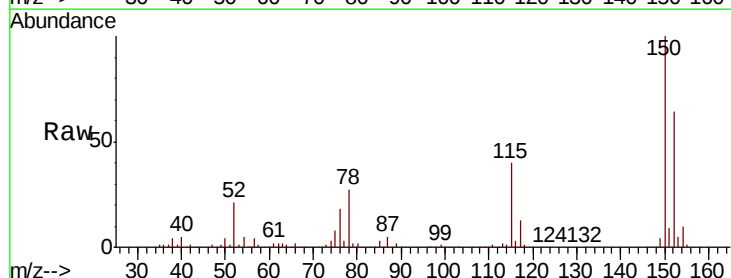
Instrument :
MSVOA_X
ClientSampleId :
S49-0560

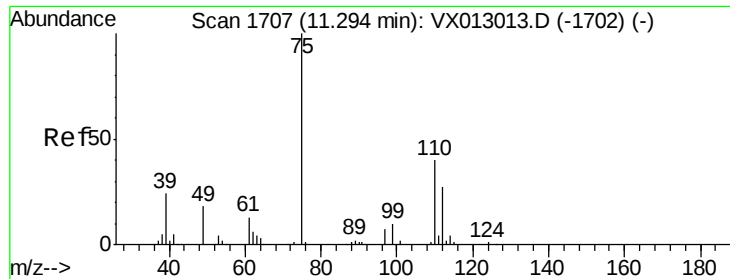
Tot Ion:117 Resp: 249717
Ion Ratio Lower Upper
117 100
82 57.3 44.1 66.1
119 31.8 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013024.D
Acq: 11 Oct 2019 18:17

Tgt Ion:152 Resp: 101844
Ion Ratio Lower Upper
152 100
115 63.3 44.5 133.5
150 154.8 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 25.235 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

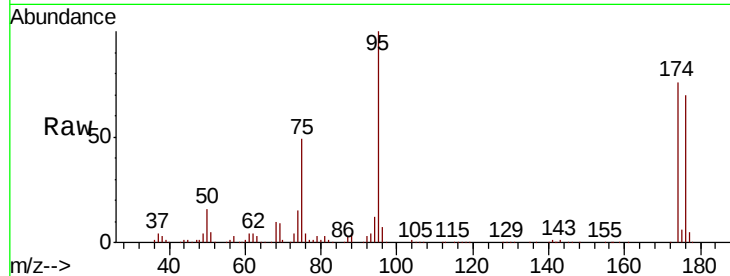
S49-0560

Tot Ion: 75 Resp: 57003

Ion Ratio Lower Upper

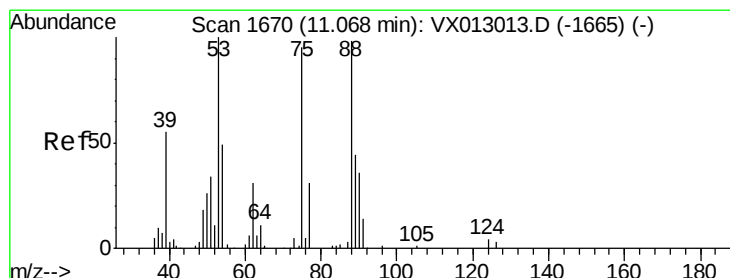
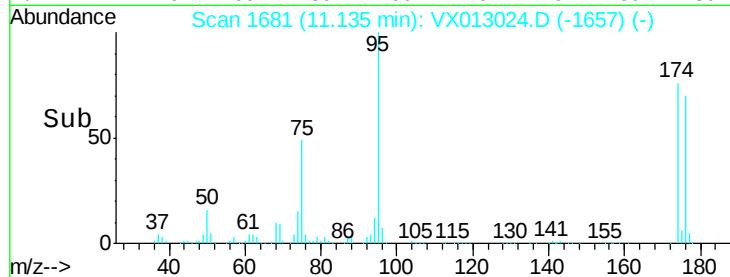
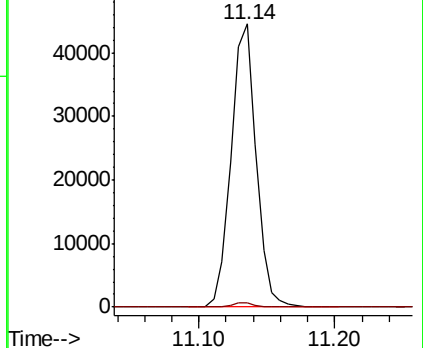
75 100

77 1.2 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 63.675 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013024.D

Acq: 11 Oct 2019 18:17

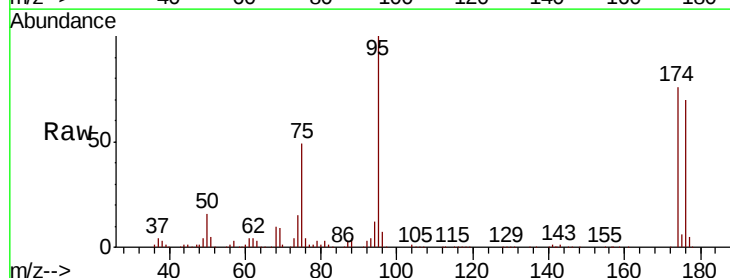
Tgt Ion: 75 Resp: 57003

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

