

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013023.D
 Acq On : 11 Oct 2019 17:53
 Operator : JC/SP
 Sample : K5261-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0551

Quant Time: Oct 11 23:28:24 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	169734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	279550	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	232217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	87651	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	108161	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
35) Dibromofluoromethane	5.49	113	83538	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
50) Toluene-d8	8.71	98	325251	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	11.14	95	105013	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	

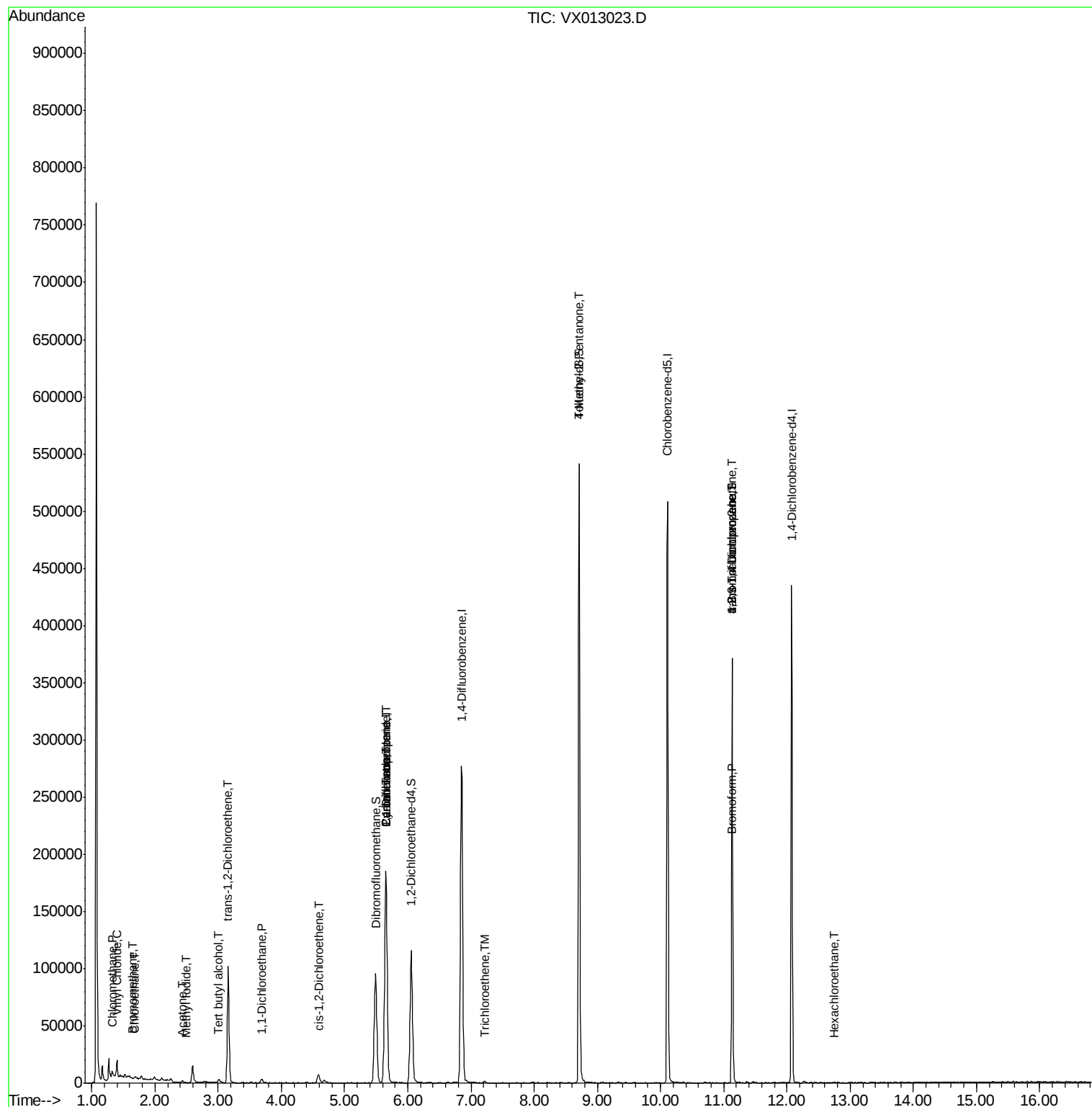
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1403	0.745	ug/l	98
4) Vinyl Chloride	1.40	62	5179	2.665	ug/l #	87
5) Bromomethane	1.65	94	202	0.250	ug/l #	79
6) Chloroethane	1.67	64	958	1.169	ug/l #	44
10) Methyl Iodide	2.50	142	27	5.094	ug/l #	40
11) Tert butyl alcohol	3.01	59	2291	4.074	ug/l #	78
16) Acetone	2.44	43	1989	1.779	ug/l #	87
21) trans-1,2-Dichloroethene	3.15	96	42746	23.251	ug/l	97
24) 1,1-Dichloroethane	3.69	63	3395	1.031	ug/l #	93
27) cis-1,2-Dichloroethene	4.59	96	4432	2.091	ug/l	91
31) Cyclohexane	5.65	56	3501	1.137	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13486	5.487	ug/l #	50
38) Carbon Tetrachloride	5.65	117	17050	7.127	ug/l #	17
44) Trichloroethene	7.21	130	518	0.257	ug/l	65
51) 4-Methyl-2-Pentanone	8.71	43	1433	0.521	ug/l #	1
71) Bromoform	11.12	173	24	3.149	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	52109	26.804	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	52109	67.380	ug/l #	10
90) Hexachloroethane	12.75	117	115	2.224	ug/l #	13

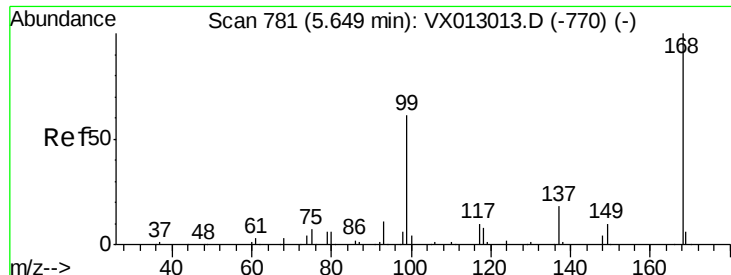
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

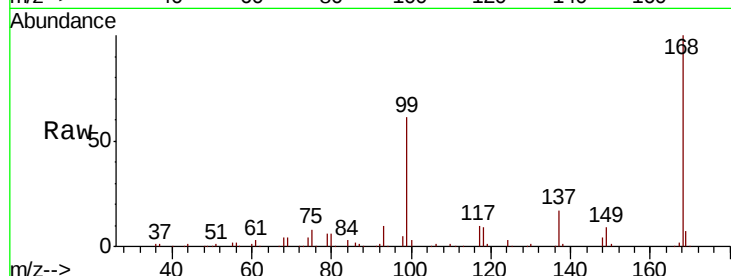
S49-0551

Tot Ion:168 Resp: 169734

Ion Ratio Lower Upper

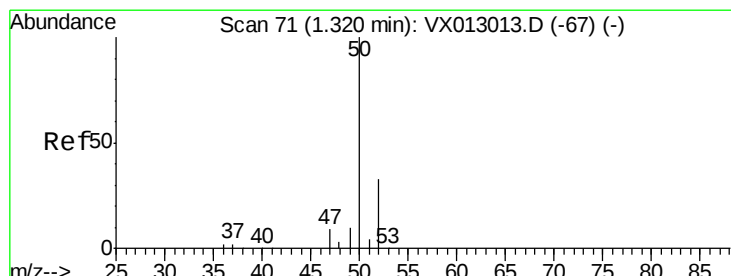
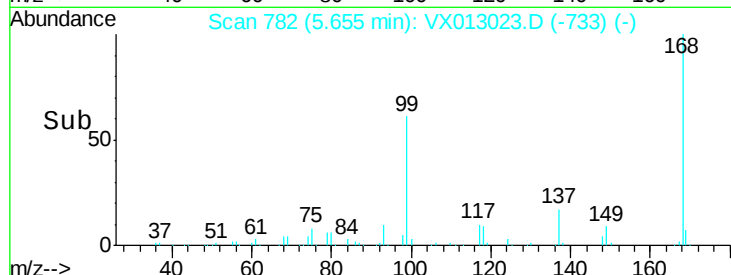
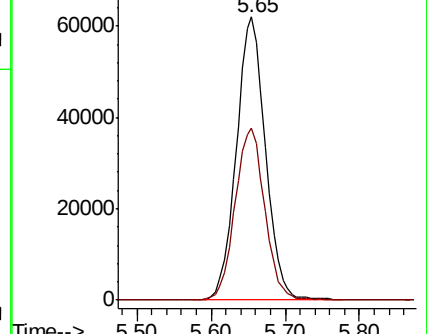
168 100

99 60.9 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.745 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013023.D

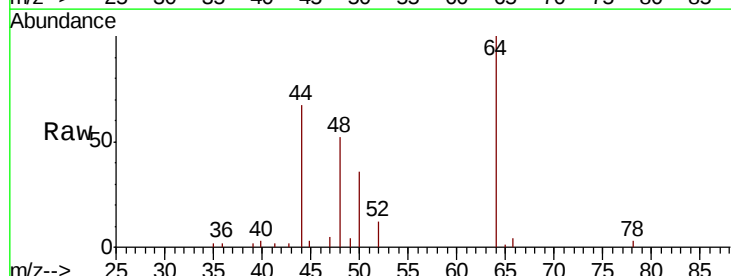
Acq: 11 Oct 2019 17:53

Tgt Ion: 50 Resp: 1403

Ion Ratio Lower Upper

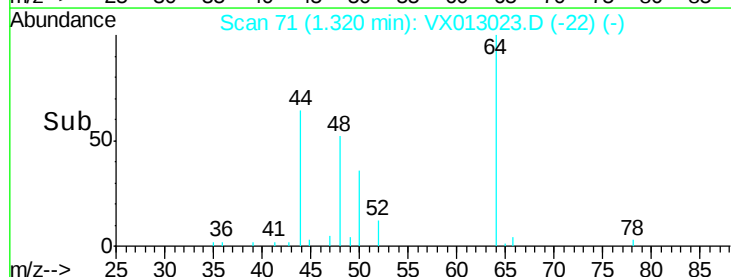
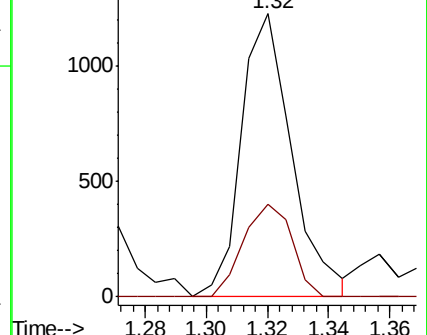
50 100

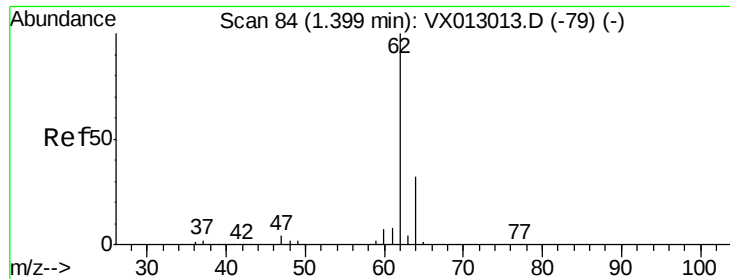
52 32.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 2.665 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

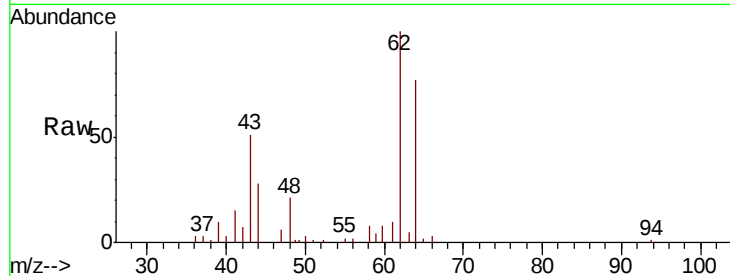
S49-0551

Tot Ion: 62 Resp: 5179

Ion Ratio Lower Upper

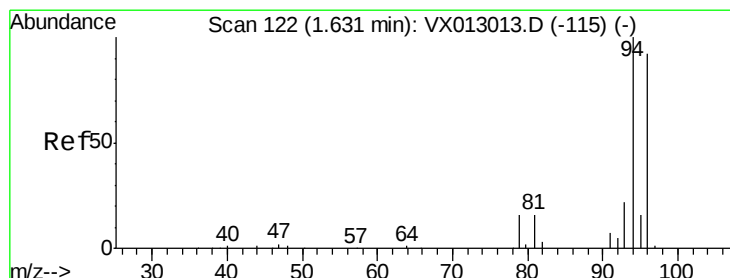
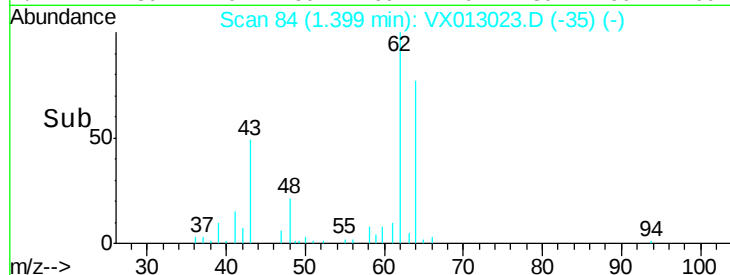
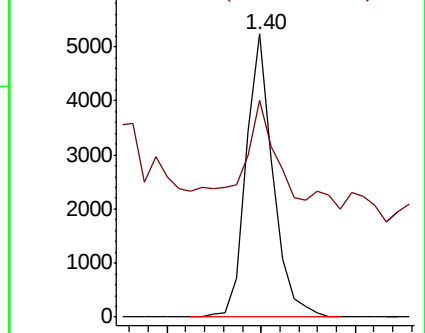
62 100

64 38.8 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013023.D

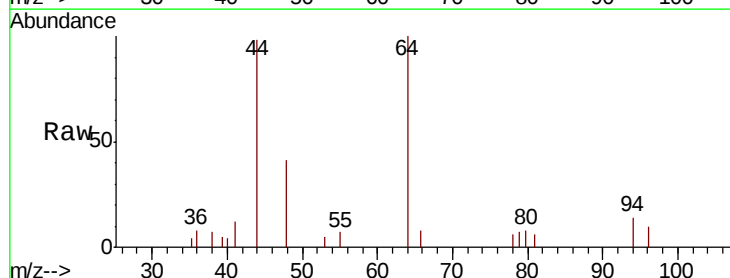
Acq: 11 Oct 2019 17:53

Tgt Ion: 94 Resp: 202

Ion Ratio Lower Upper

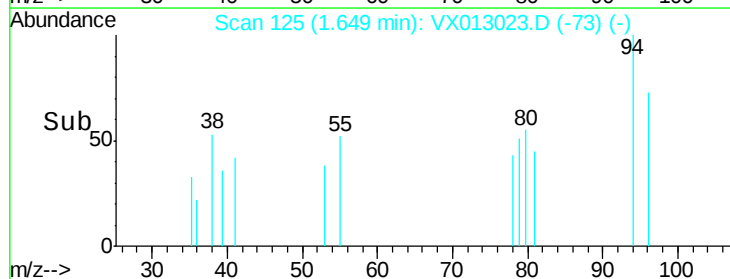
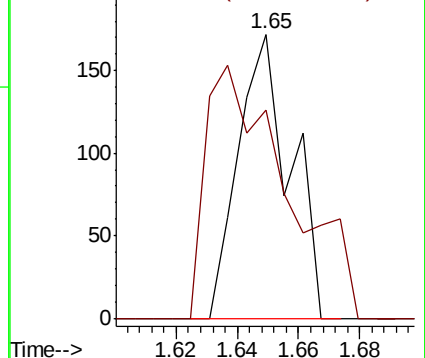
94 100

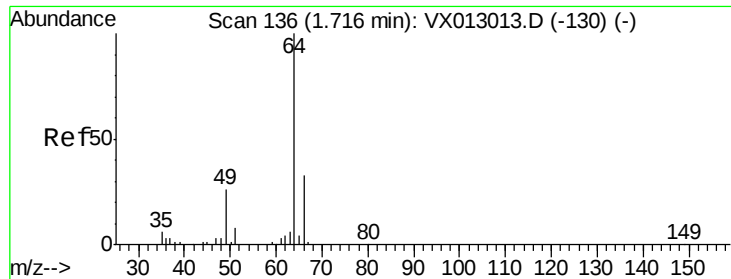
96 73.3 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.169 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

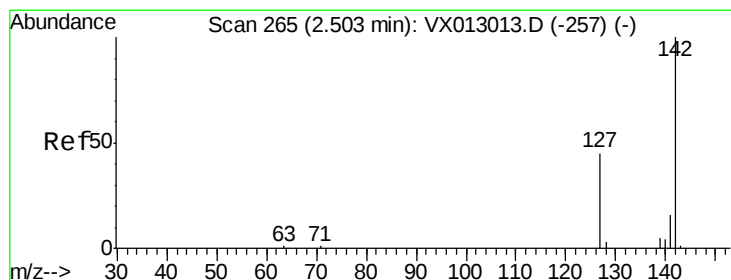
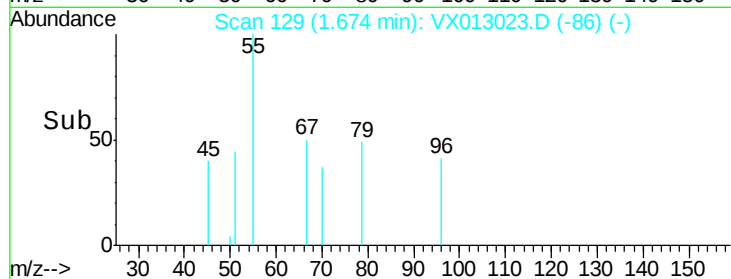
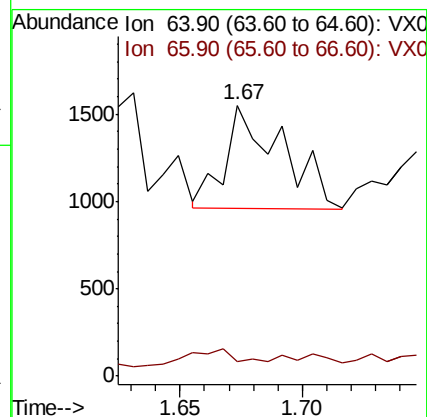
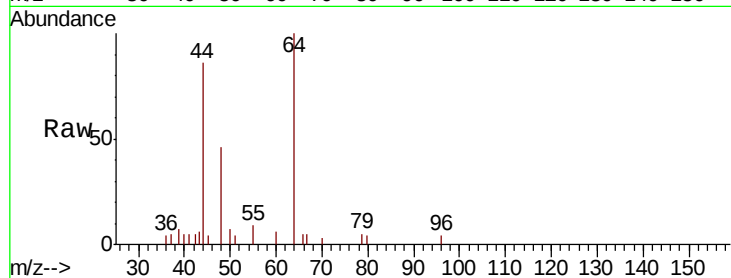
S49-0551

Tot Ion: 64 Resp: 958

Ion Ratio Lower Upper

64 100

66 0.7 25.6 38.4#



#10

Methyl Iodide

Concen: 5.094 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

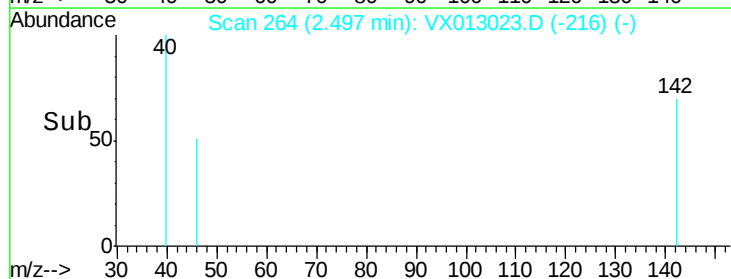
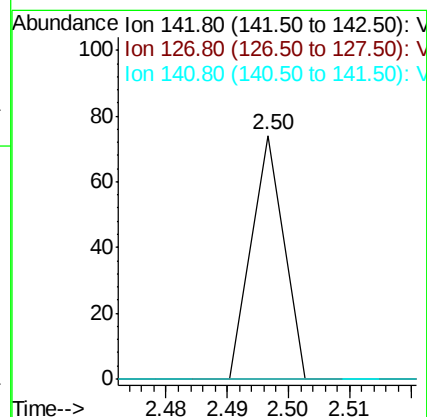
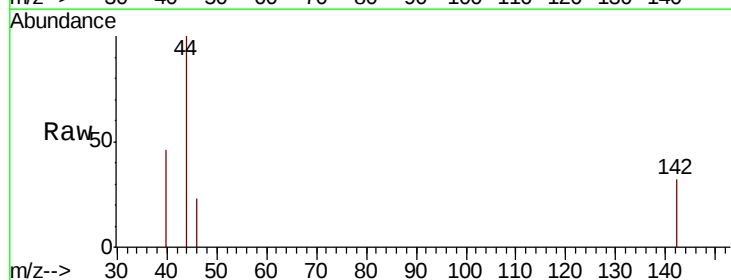
Tgt Ion: 142 Resp: 27

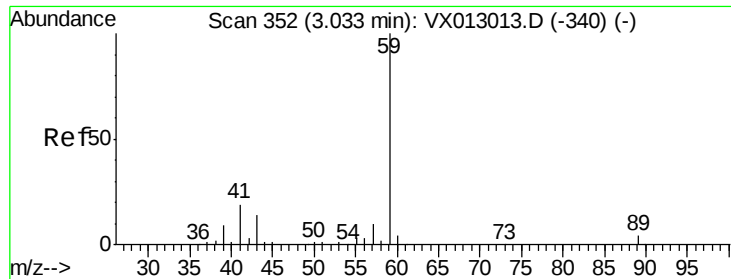
Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#

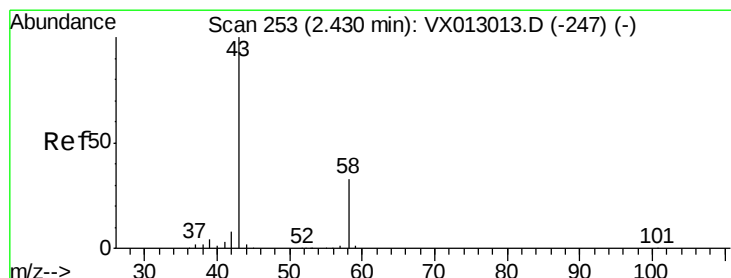
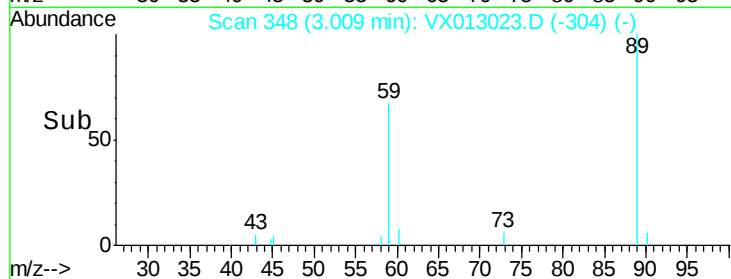
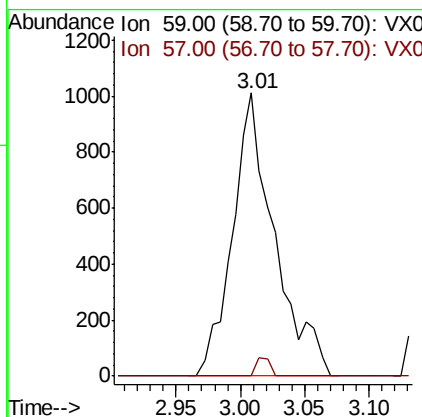
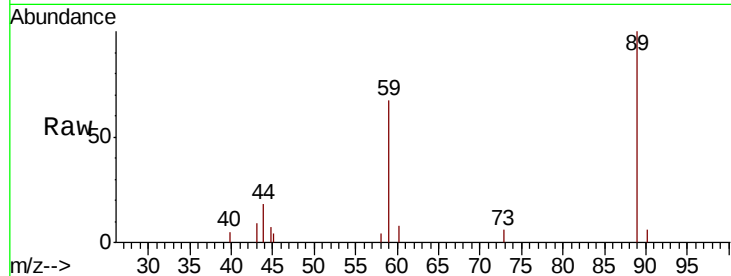




#11
Tert butyl alcohol
Concen: 4.074 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

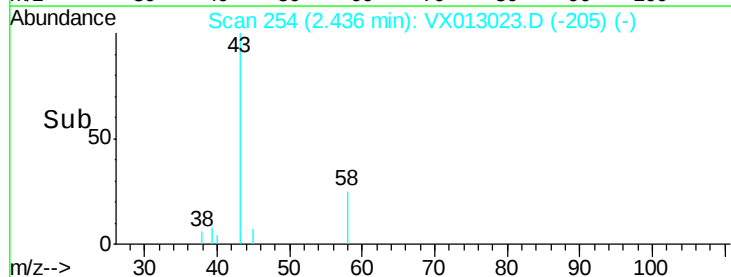
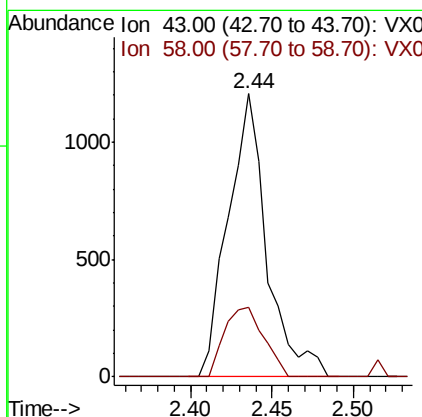
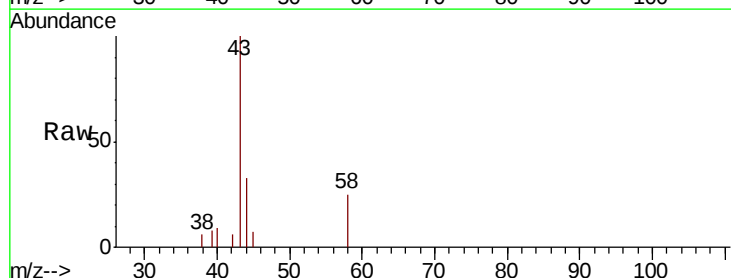
Instrument :
MSVOA_X
ClientSampled :
S49-0551

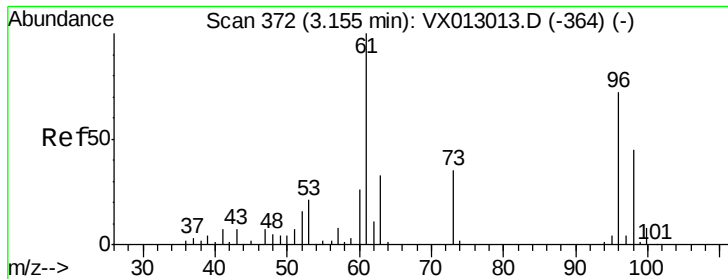
Tot Ion: 59 Resp: 2291
Ion Ratio Lower Upper
59 100
57 2.0 8.3 12.5#



#16
Acetone
Concen: 1.779 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

Tgt Ion: 43 Resp: 1989
Ion Ratio Lower Upper
43 100
58 24.5 25.4 38.2#





#21

trans-1,2-Dichloroethene

Concen: 23.251 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

S49-0551

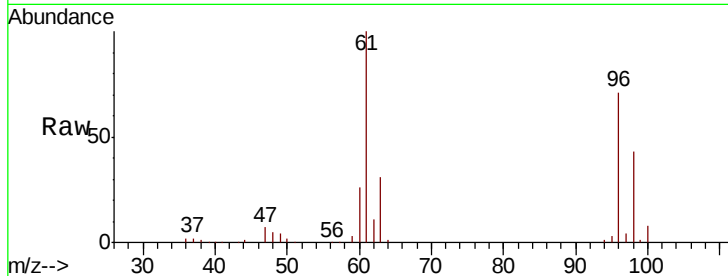
Tot Ion: 96 Resp: 42746

Ion Ratio Lower Upper

96 100

61 140.3 110.4 165.6

98 60.6 51.5 77.3

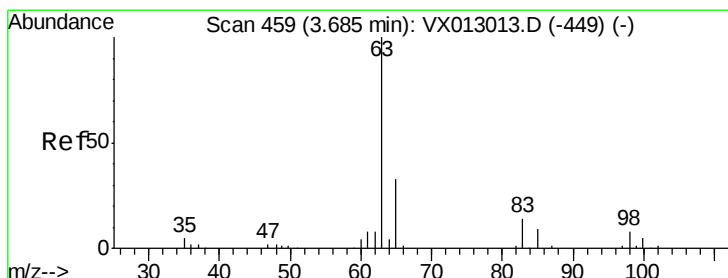
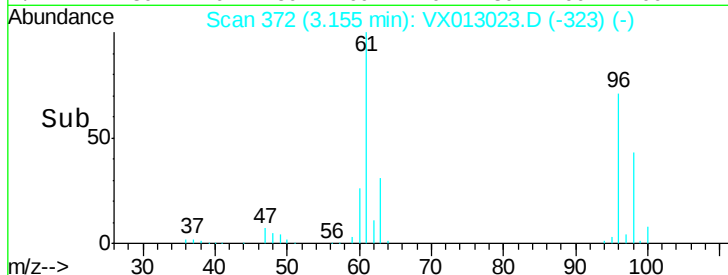
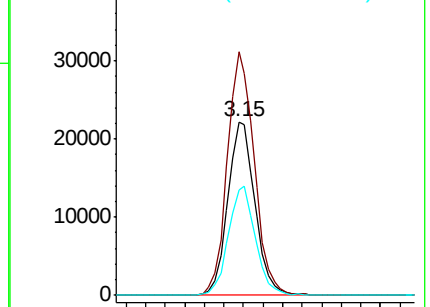


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#24

1,1-Dichloroethane

Concen: 1.031 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

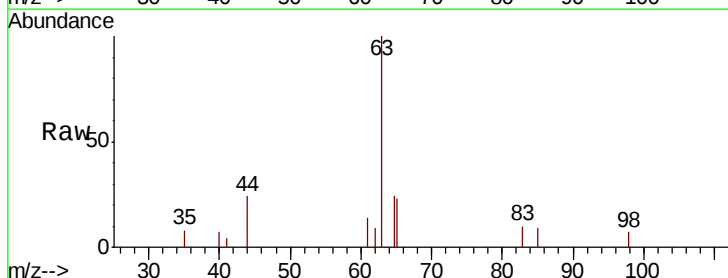
Tgt Ion: 63 Resp: 3395

Ion Ratio Lower Upper

63 100

98 6.8 3.9 11.5

100 0.0 2.3 6.9#

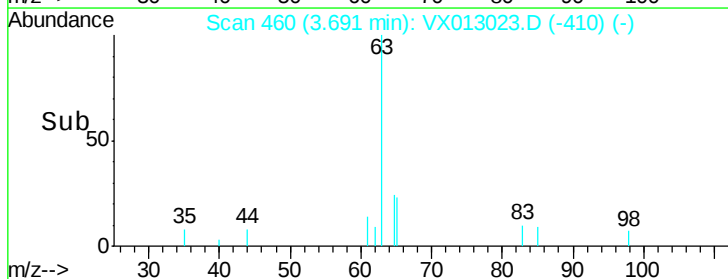
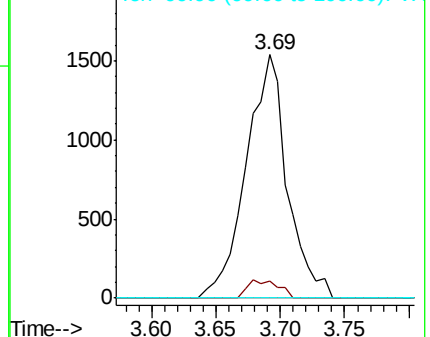


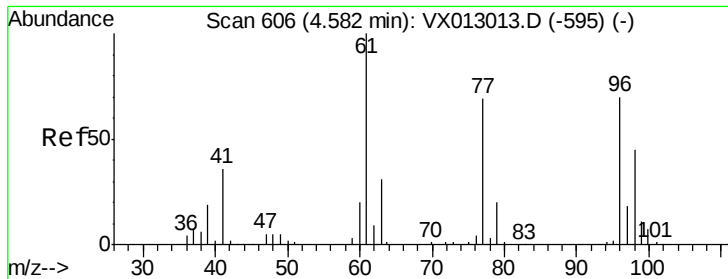
Abundance

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



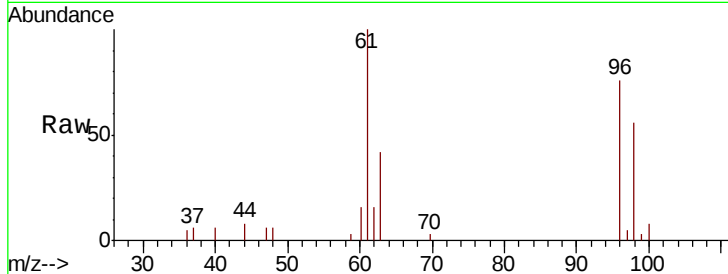


#27

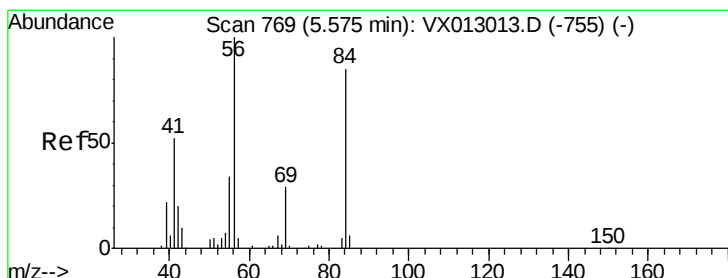
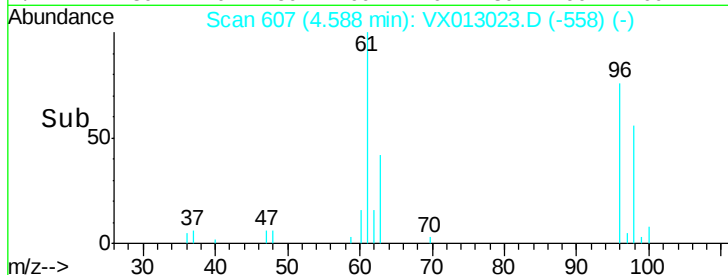
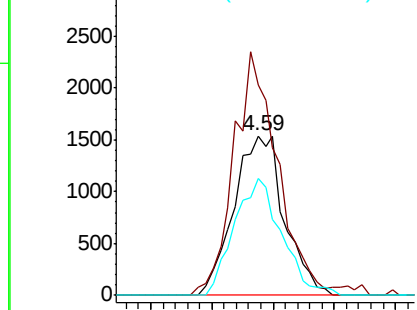
cis-1,2-Dichloroethene
 Concen: 2.091 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX013023.D
 Acq: 11 Oct 2019 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0551

Tot Ion: 96 Resp: 4432
 Ion Ratio Lower Upper
 96 100
 61 132.7 0.0 290.6
 98 68.5 0.0 128.8



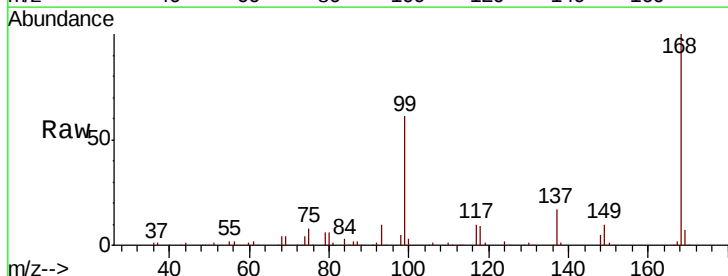
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



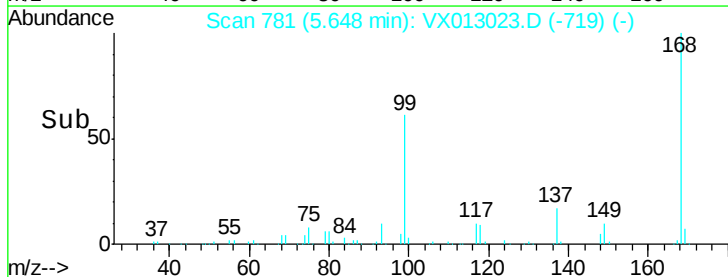
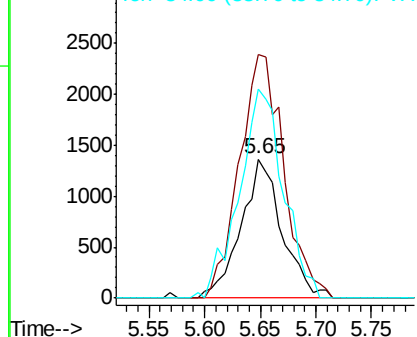
#31

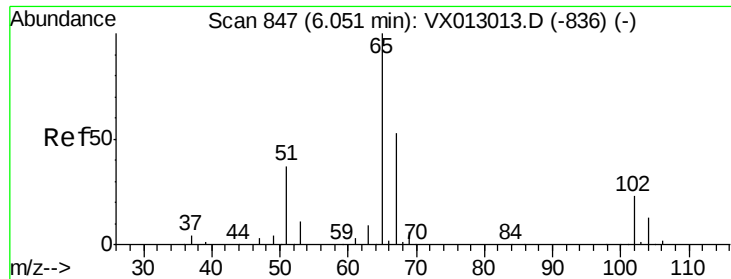
Cyclohexane
 Concen: 1.137 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX013023.D
 Acq: 11 Oct 2019 17:53

Tgt Ion: 56 Resp: 3501
 Ion Ratio Lower Upper
 56 100
 69 175.0 25.2 37.8#
 84 156.7 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0

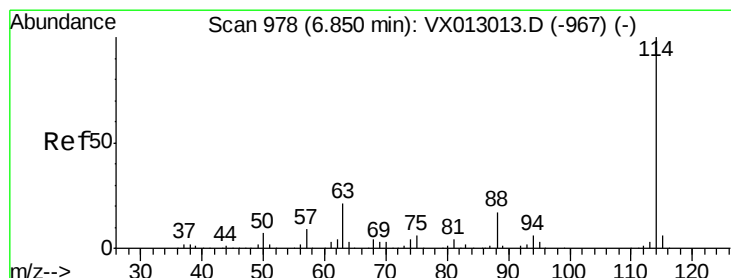
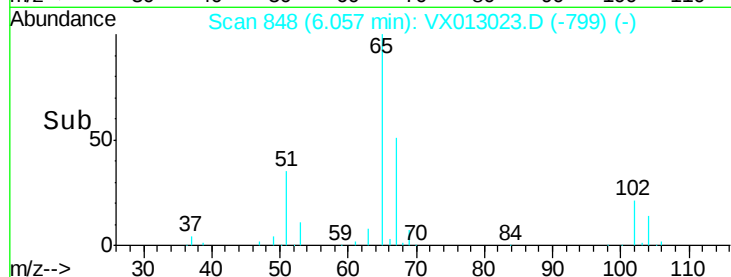
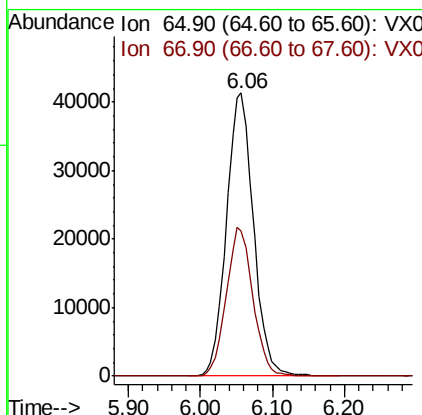
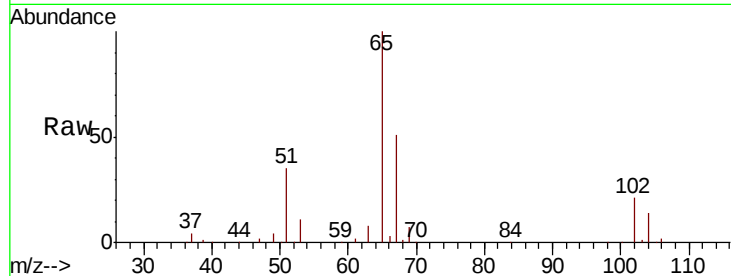




#33
 1,2-Dichloroethane-d4
 Concen: 50.984 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX013023.D
 Acq: 11 Oct 2019 17:53

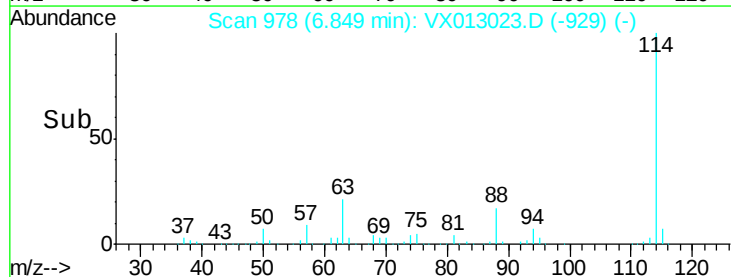
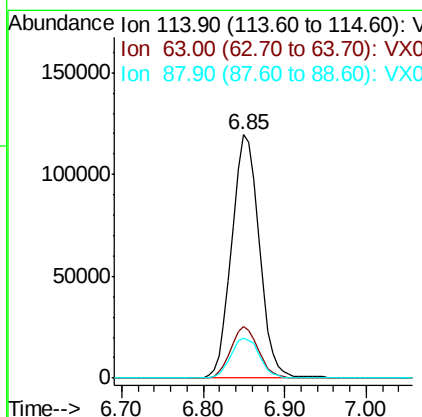
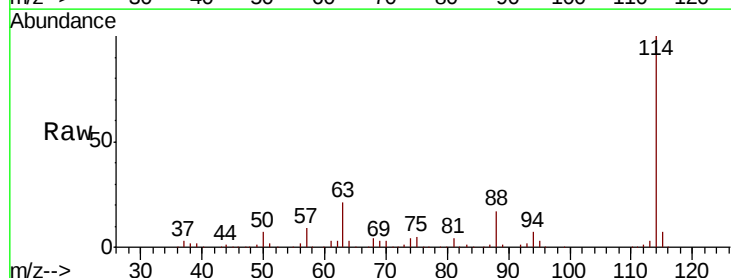
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0551

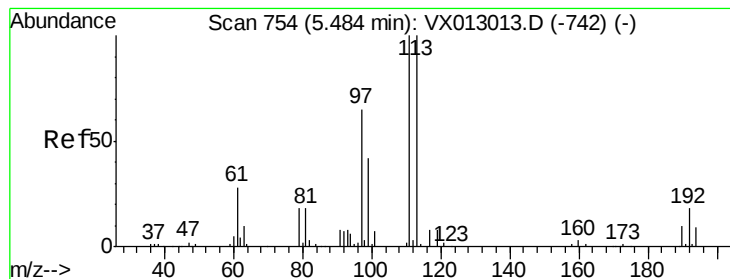
Tot Ion: 65 Resp: 108161
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013023.D
 Acq: 11 Oct 2019 17:53

Tgt Ion: 114 Resp: 279550
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 40.8
 88 16.6 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.066 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

S49-0551

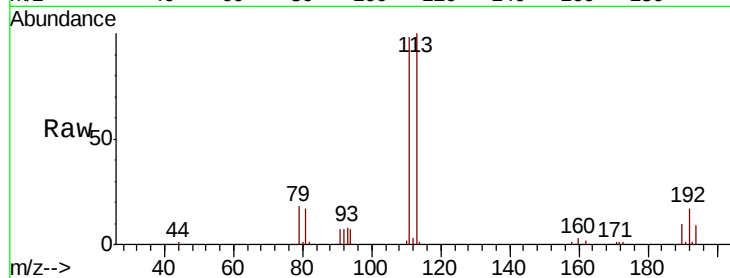
Tot Ion:113 Resp: 83538

Ion Ratio Lower Upper

113 100

111 100.5 83.2 124.8

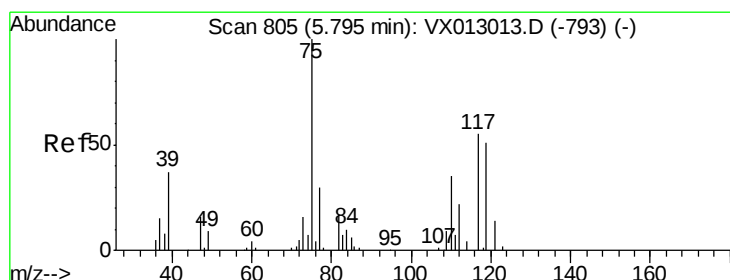
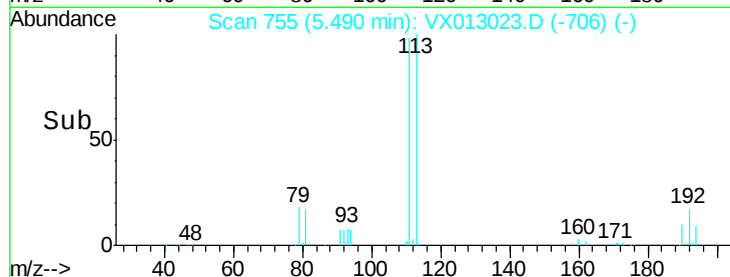
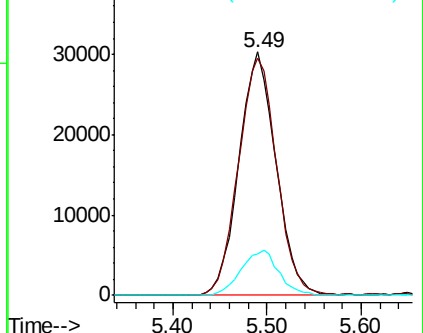
192 18.8 15.4 23.2



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: 5.487 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

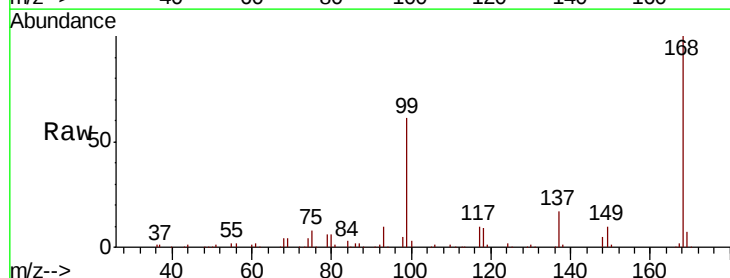
Tgt Ion: 75 Resp: 13486

Ion Ratio Lower Upper

75 100

110 9.0 17.6 52.9#

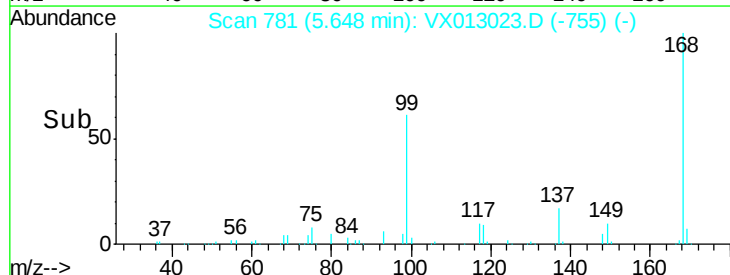
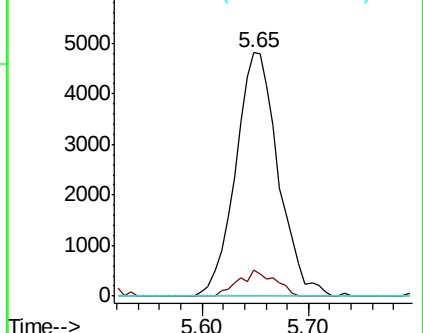
77 0.0 24.4 36.6#

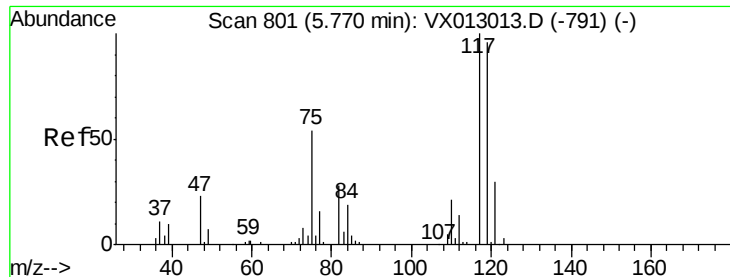


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

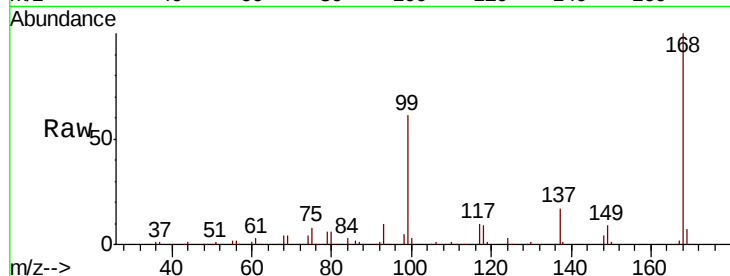




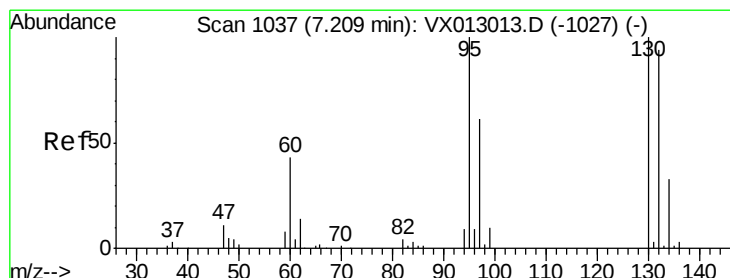
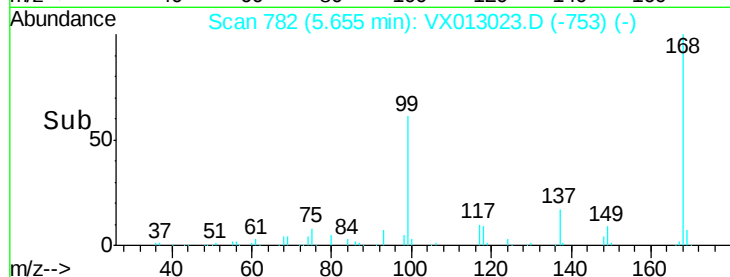
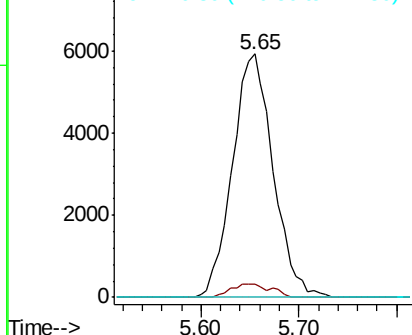
#38
Carbon Tetrachloride
Concen: 7.127 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

Instrument :
MSVOA_X
ClientSampleId :
S49-0551

Tot Ion:117 Resp: 17050
Ion Ratio Lower Upper
117 100
119 5.5 74.5 111.7#
121 0.0 24.2 36.4#

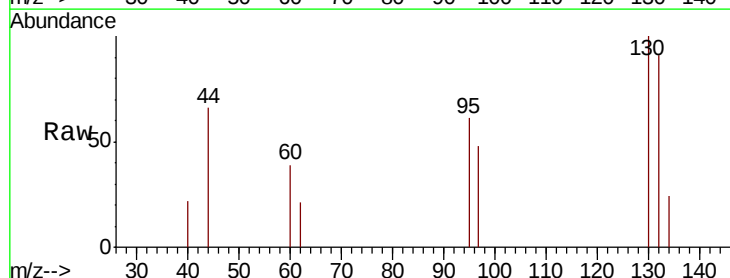


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

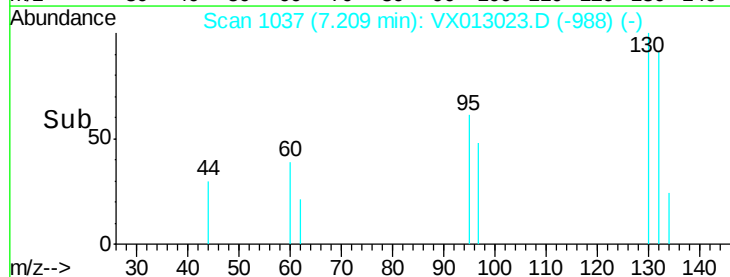
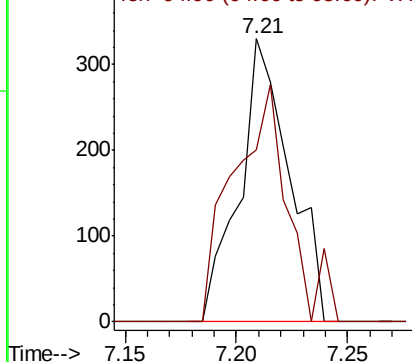


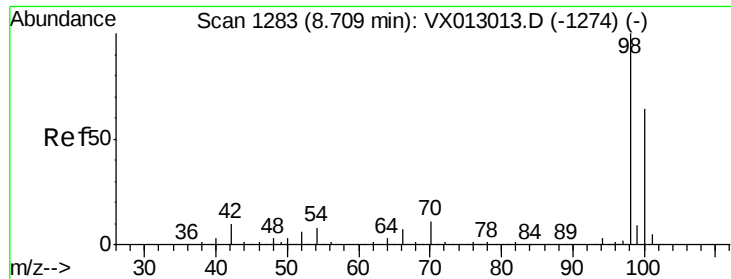
#44
Trichloroethene
Concen: 0.257 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

Tgt Ion:130 Resp: 518
Ion Ratio Lower Upper
130 100
95 60.6 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.975 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

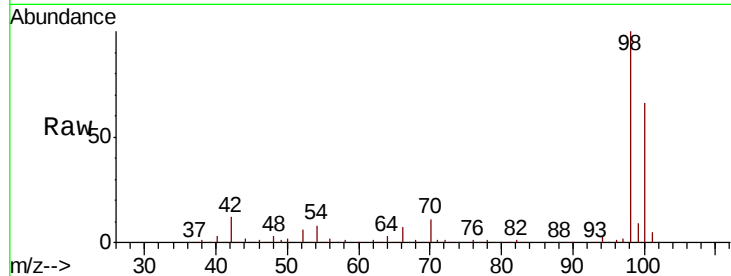
S49-0551

Tot Ion: 98 Resp: 325251

Ion Ratio Lower Upper

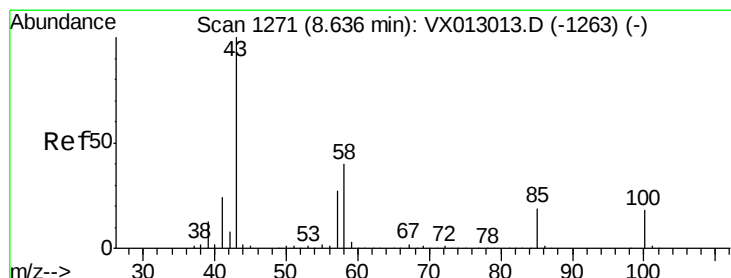
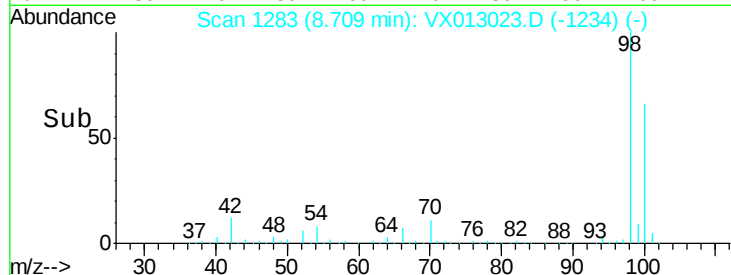
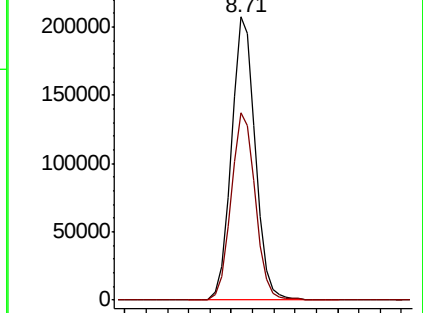
98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.521 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013023.D

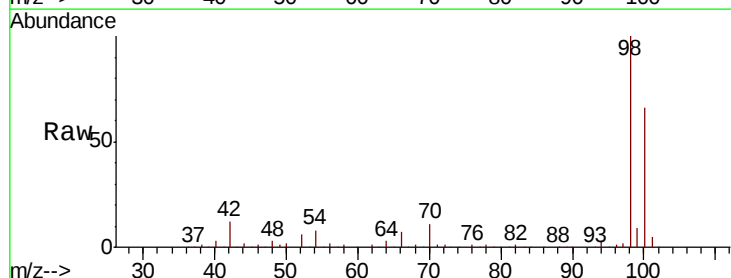
Acq: 11 Oct 2019 17:53

Tgt Ion: 43 Resp: 1433

Ion Ratio Lower Upper

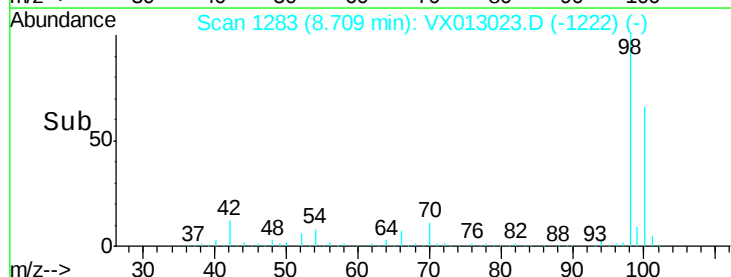
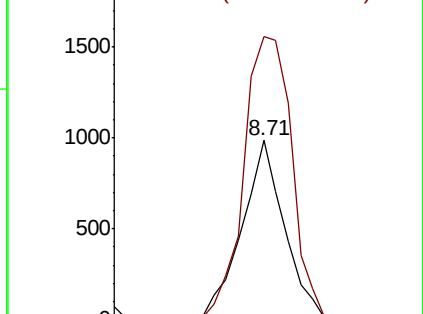
43 100

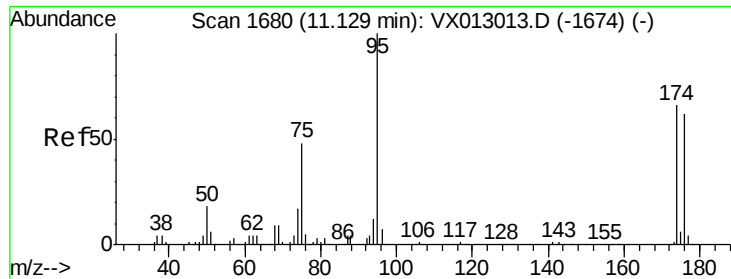
58 177.0 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.188 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

S49-0551

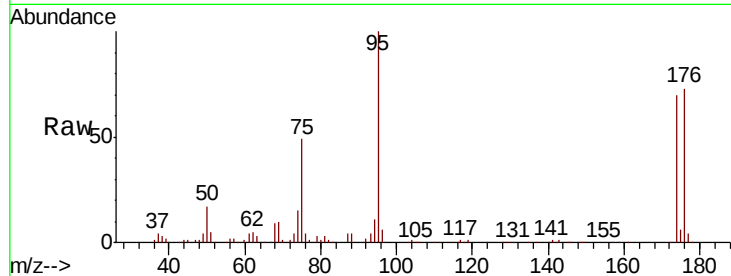
Tot Ion: 95 Resp: 105013

Ion Ratio Lower Upper

95 100

174 72.6 0.0 143.4

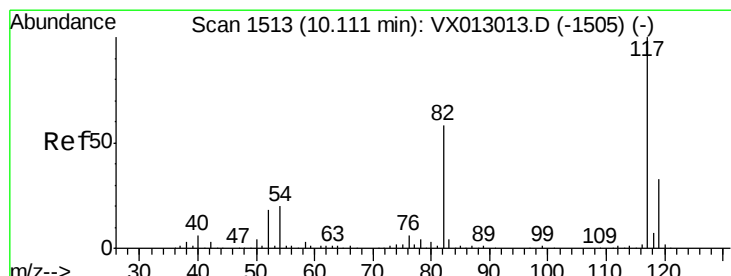
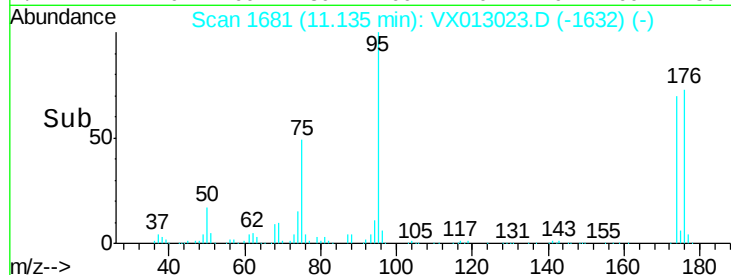
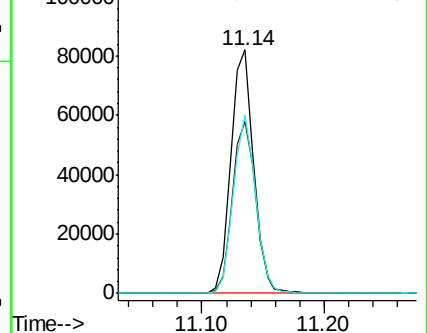
176 71.7 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

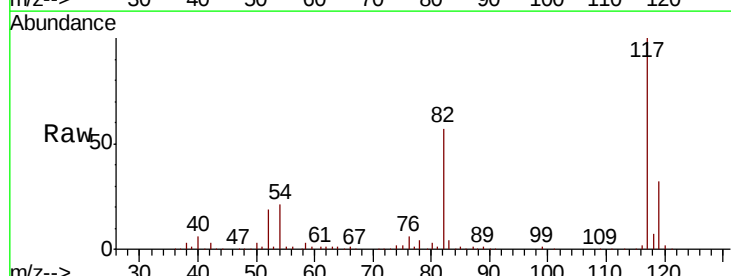
Tgt Ion: 117 Resp: 232217

Ion Ratio Lower Upper

117 100

82 56.9 44.1 66.1

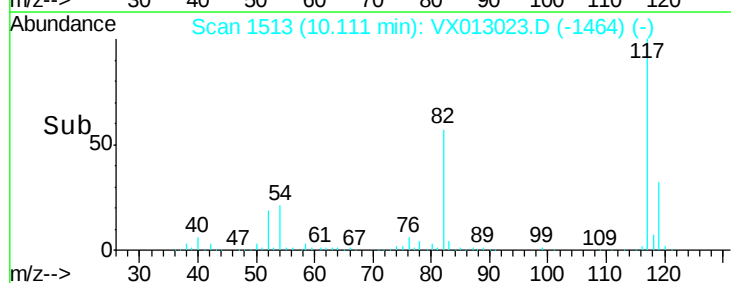
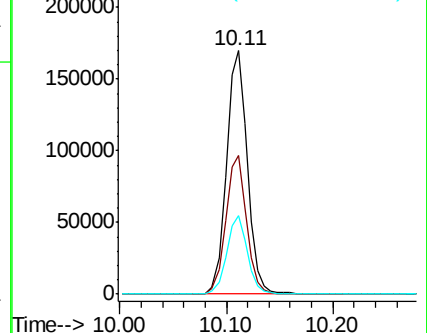
119 32.3 25.8 38.8

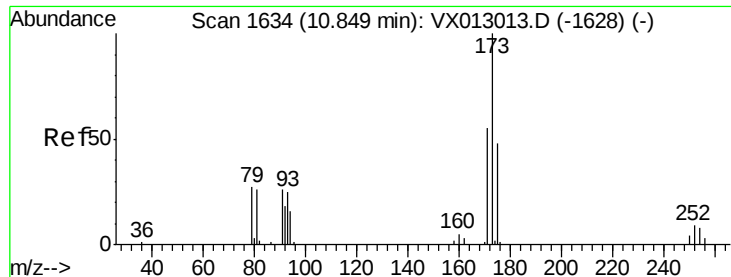


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

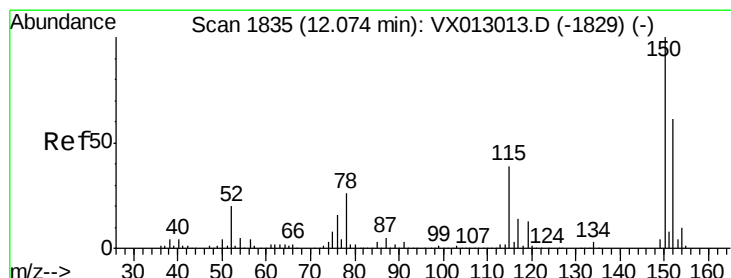
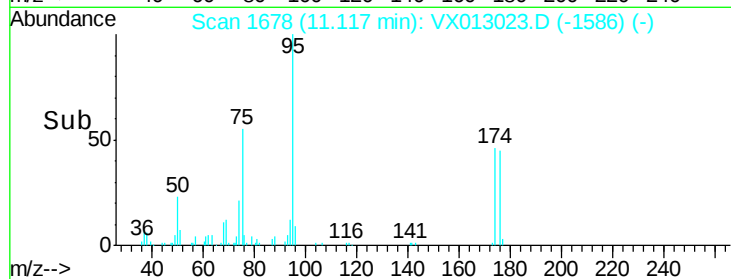
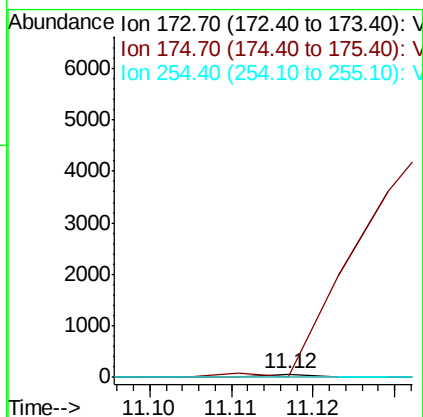
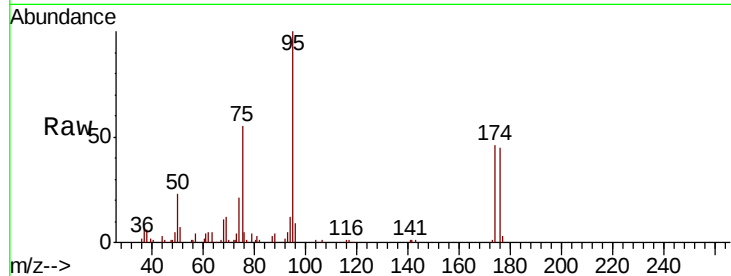




#71
Bromoform
Concen: 3.149 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

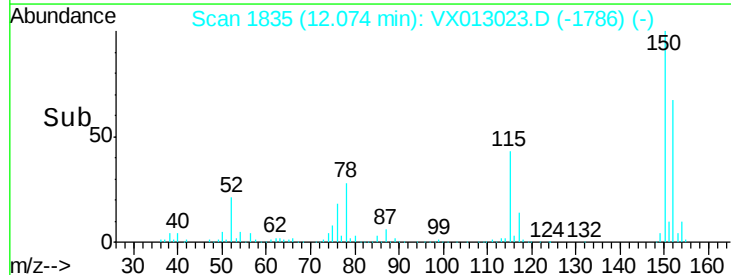
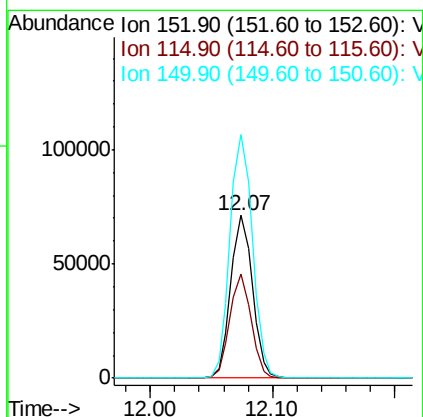
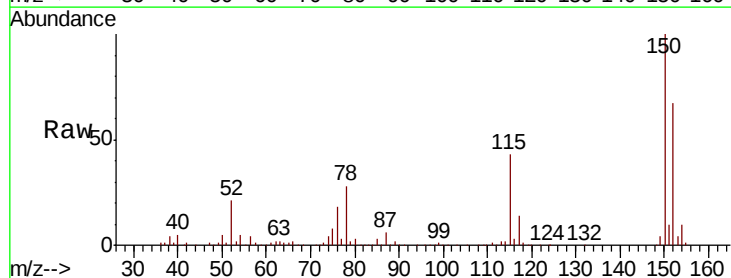
Instrument :
MSVOA_X
ClientSampleId :
S49-0551

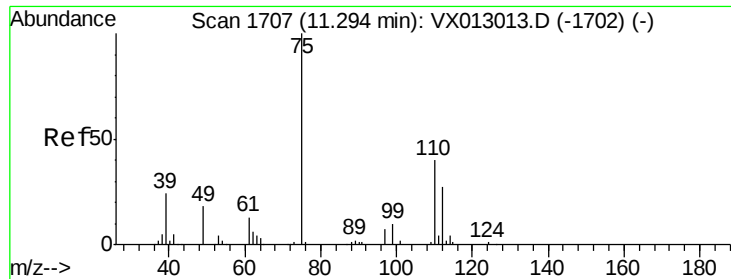
Tot Ion:173 Resp: 24
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013023.D
Acq: 11 Oct 2019 17:53

Tgt Ion:152 Resp: 87651
Ion Ratio Lower Upper
152 100
115 62.7 44.5 133.5
150 155.3 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 26.804 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

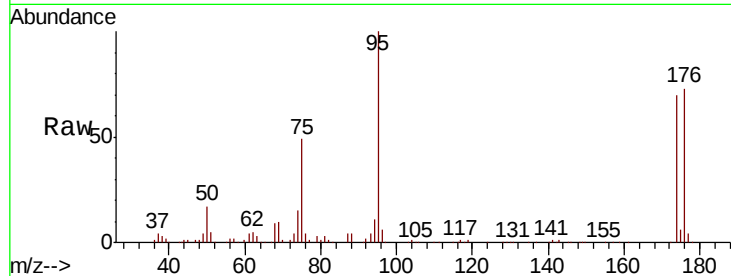
S49-0551

Tot Ion: 75 Resp: 52109

Ion Ratio Lower Upper

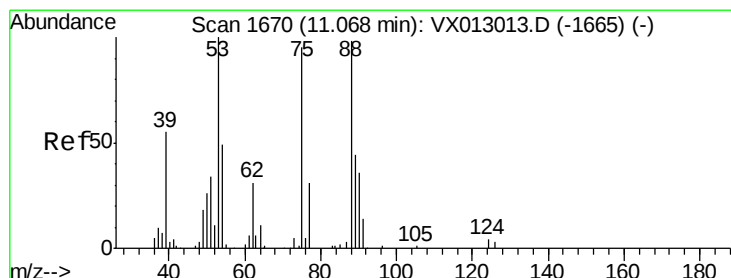
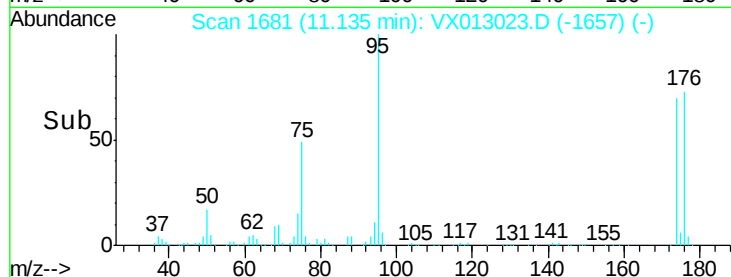
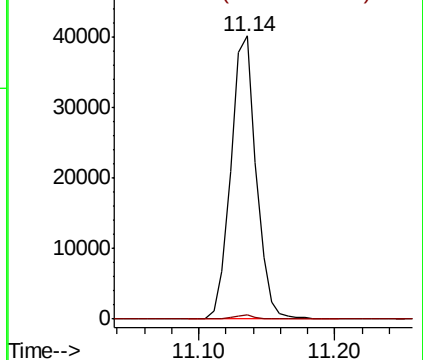
75 100

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: 67.380 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

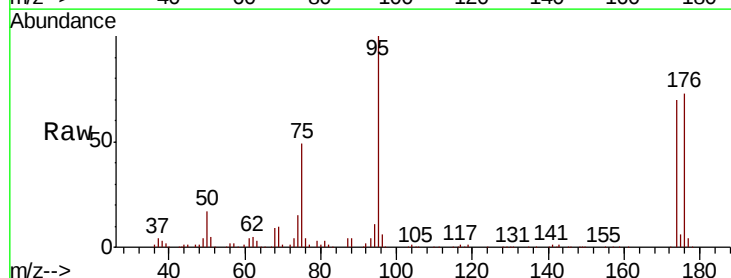
Tgt Ion: 75 Resp: 52109

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

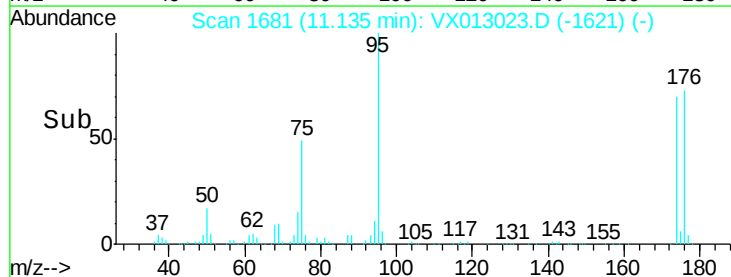
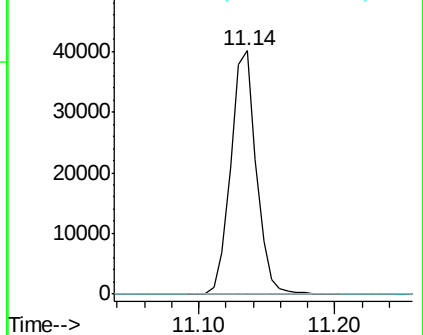
89 0.0 37.4 56.2#

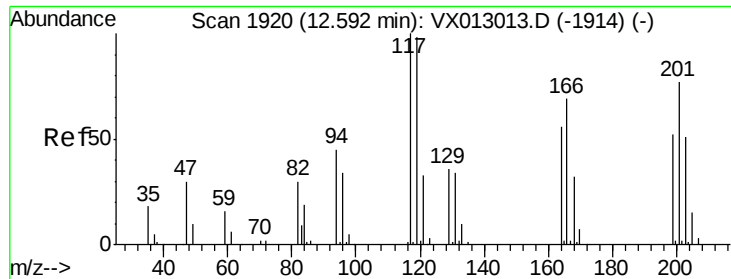


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.224 ug/l

RT: 12.75 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VX013023.D

Acq: 11 Oct 2019 17:53

Instrument :

MSVOA_X

ClientSampleId :

S49-0551

Tot Ion:117 Resp: 115

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#

