

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013022.D
 Acq On : 11 Oct 2019 17:30
 Operator : JC/SP
 Sample : K5261-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0552

Quant Time: Oct 11 23:28:11 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	178472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	291230	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101162	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	111793	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
35) Dibromofluoromethane	5.49	113	85779	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
50) Toluene-d8	8.71	98	339005	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.13	95	119120	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1126	0.569	ug/l #	86
4) Vinyl Chloride	1.40	62	8726	4.270	ug/l	96
5) Bromomethane	1.65	94	342	0.403	ug/l	98
6) Chloroethane	1.71	64	127	0.469	ug/l #	43
11) Tert butyl alcohol	3.01	59	1390	2.351	ug/l #	72
16) Acetone	2.44	43	2188	1.861	ug/l #	57
21) trans-1,2-Dichloroethene	3.16	96	59467	30.763	ug/l	94
24) 1,1-Dichloroethane	3.70	63	1869	0.540	ug/l #	81
27) cis-1,2-Dichloroethene	4.59	96	11298	5.070	ug/l	91
31) Cyclohexane	5.66	56	3837	1.185	ug/l #	20
36) 1,1-Dichloropropene	5.65	75	14137	5.521	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18145	7.281	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1448	0.505	ug/l #	1
71) Bromoform	11.12	173	104	3.199	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	59308	26.432	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	59308	66.502	ug/l #	10
90) Hexachloroethane	12.75	117	44	2.153	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

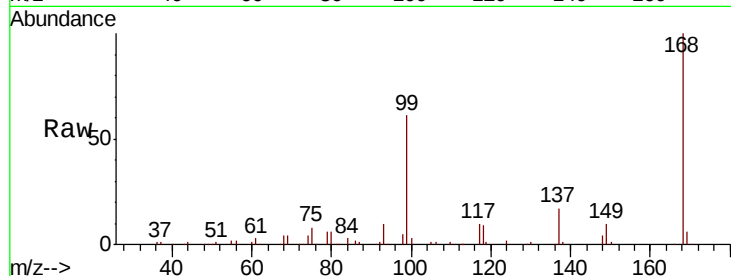
S49-0552

Tot Ion:168 Resp: 178472

Ion Ratio Lower Upper

168 100

99 60.5 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

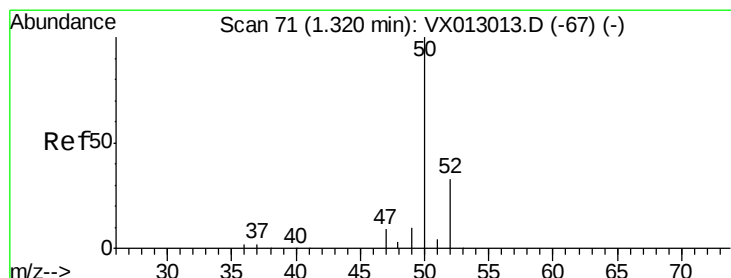
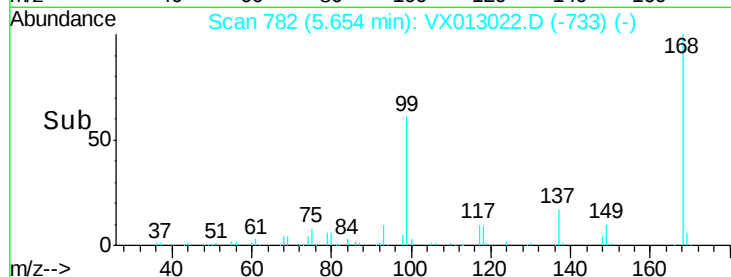
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.569 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013022.D

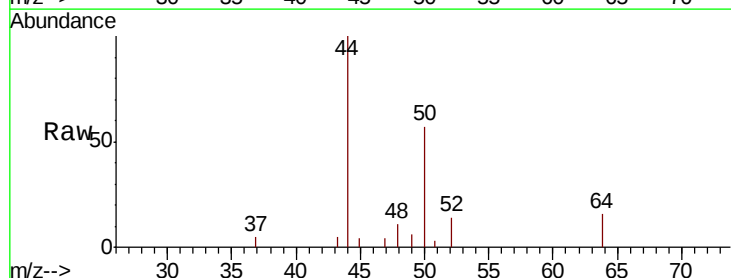
Acq: 11 Oct 2019 17:30

Tgt Ion: 50 Resp: 1126

Ion Ratio Lower Upper

50 100

52 23.7 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

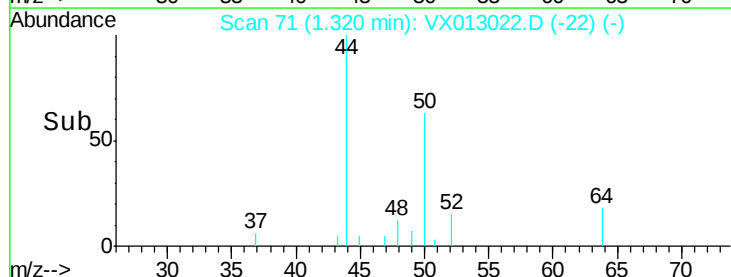
1500

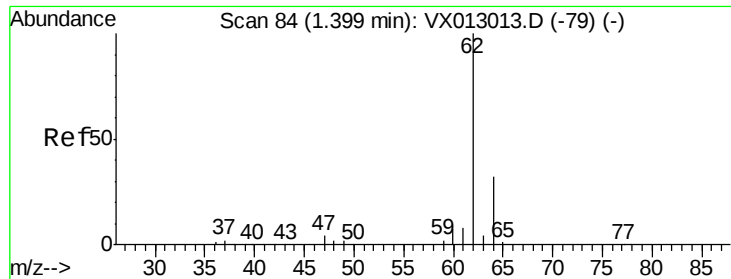
1000

500

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 4.270 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

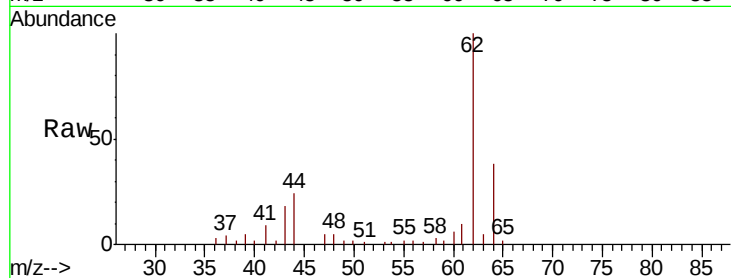
S49-0552

Tot Ion: 62 Resp: 8726

Ion Ratio Lower Upper

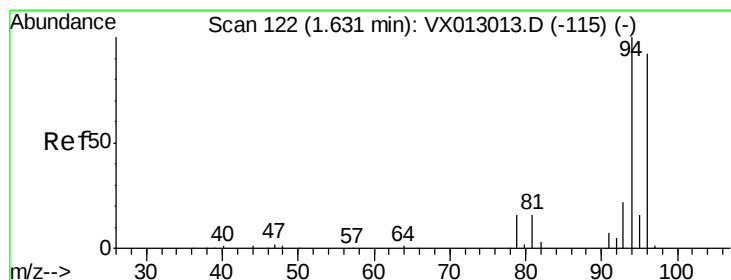
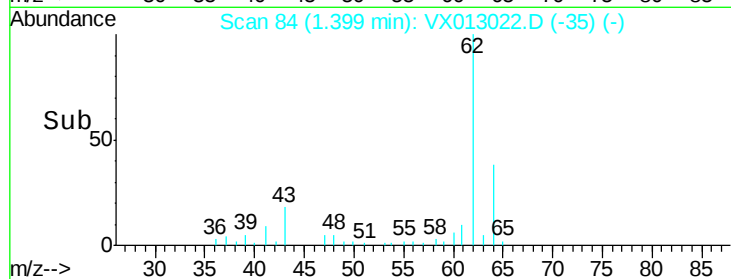
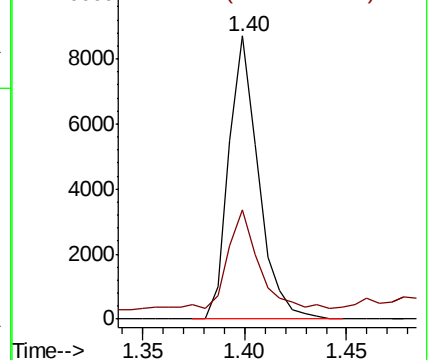
62 100

64 34.0 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: 0.403 ug/l

RT: 1.65 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013022.D

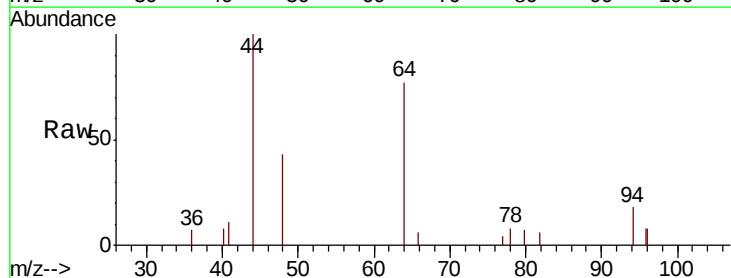
Acq: 11 Oct 2019 17:30

Tgt Ion: 94 Resp: 342

Ion Ratio Lower Upper

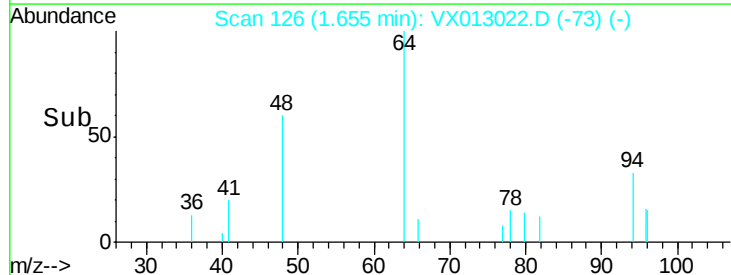
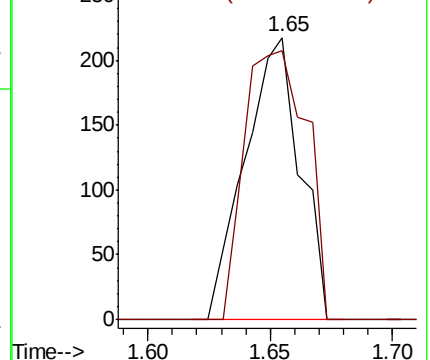
94 100

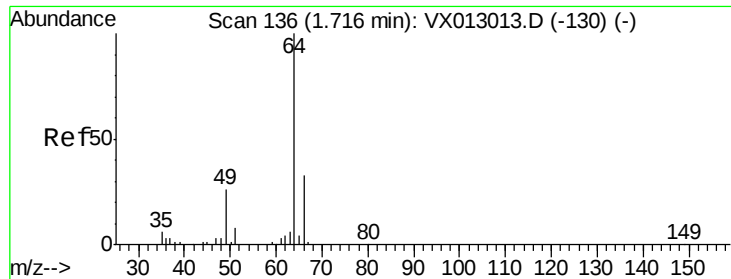
96 95.4 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.469 ug/l

RT: 1.71 min Scan# 135

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampled :

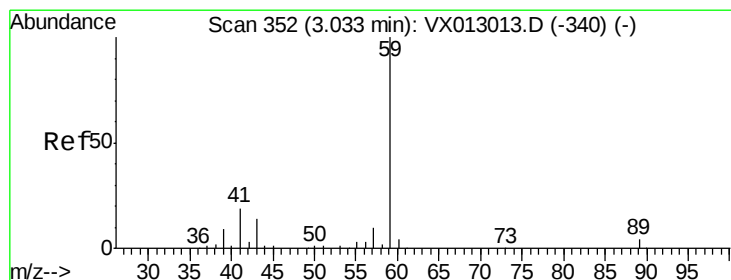
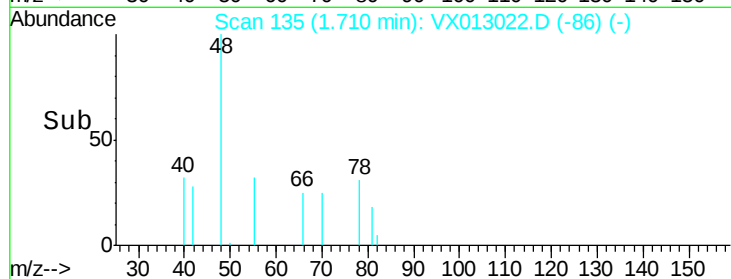
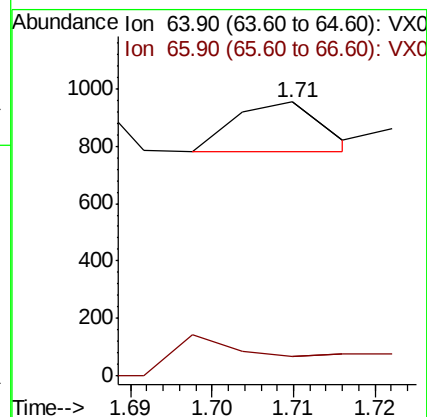
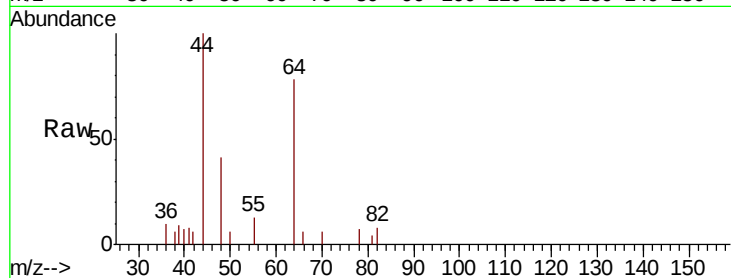
S49-0552

Tot Ion: 64 Resp: 127

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 2.351 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013022.D

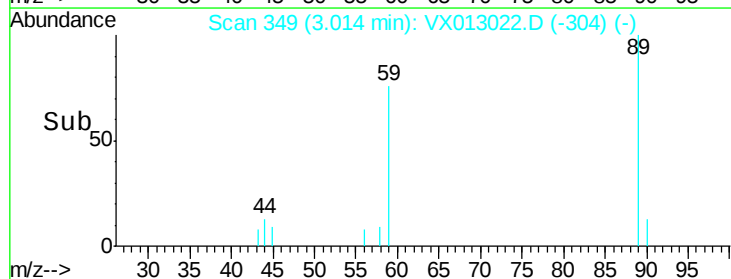
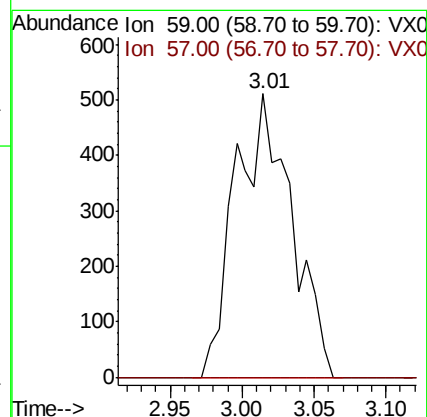
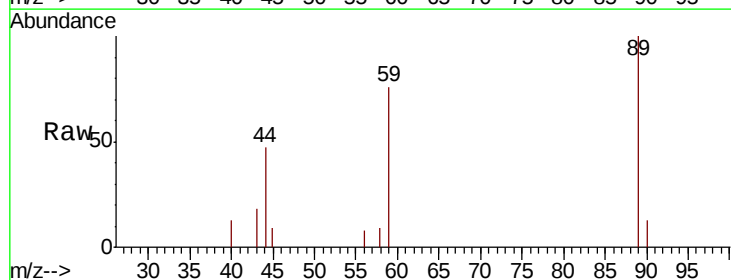
Acq: 11 Oct 2019 17:30

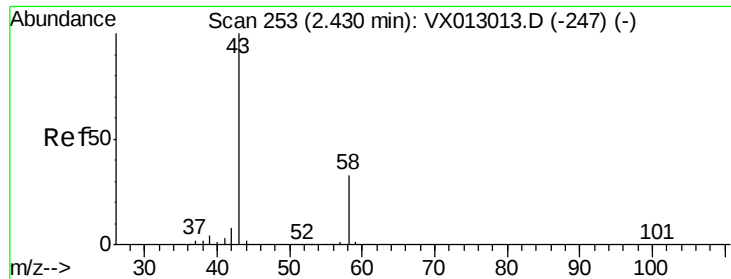
Tgt Ion: 59 Resp: 1390

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#16

Acetone

Concen: 1.861 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

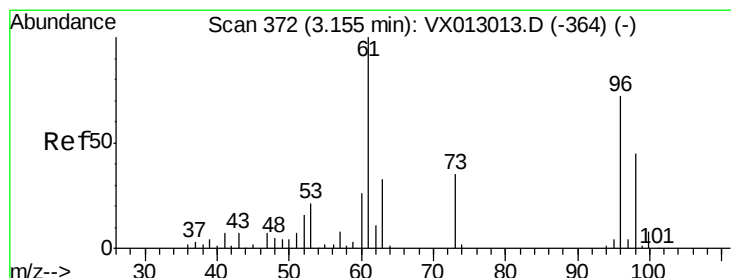
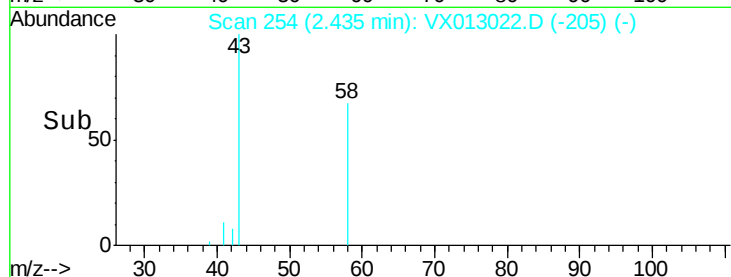
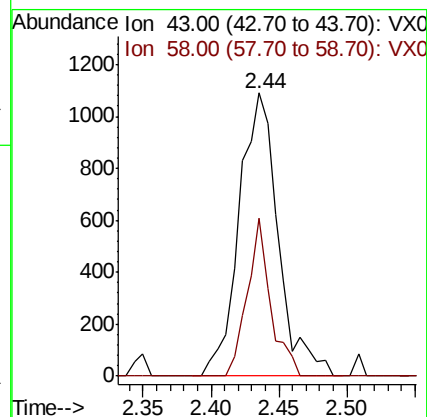
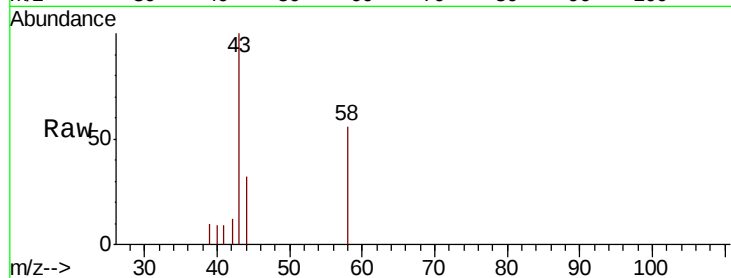
S49-0552

Tot Ion: 43 Resp: 2188

Ion Ratio Lower Upper

43 100

58 55.8 25.4 38.2#



#21

trans-1,2-Dichloroethene

Concen: 30.763 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

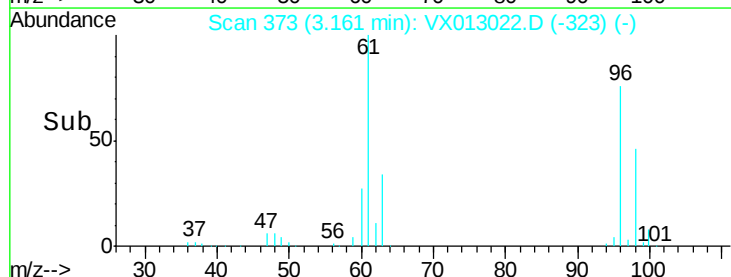
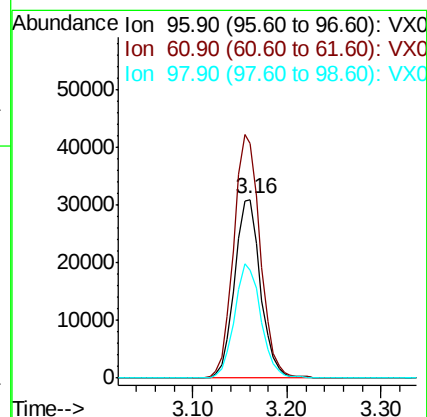
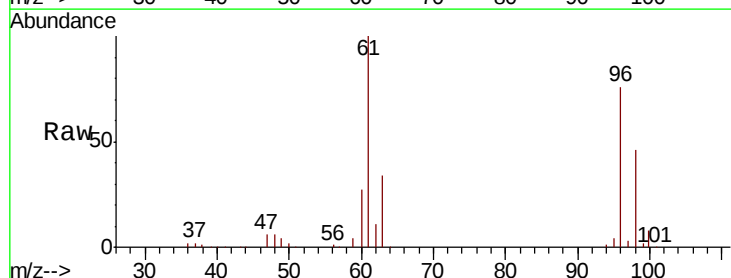
Tgt Ion: 96 Resp: 59467

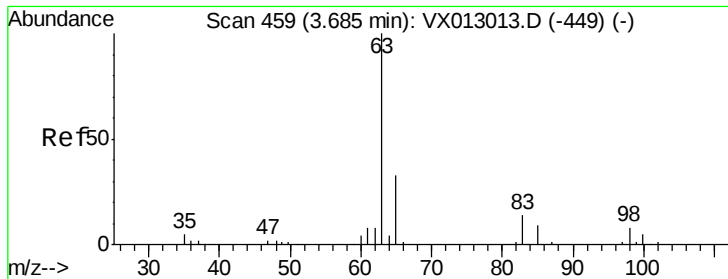
Ion Ratio Lower Upper

96 100

61 131.1 110.4 165.6

98 60.2 51.5 77.3





#24

1,1-Dichloroethane

Concen: 0.540 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampled :

S49-0552

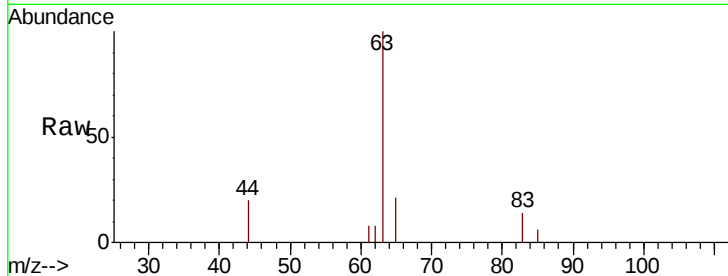
Tot Ion: 63 Resp: 1869

Ion Ratio Lower Upper

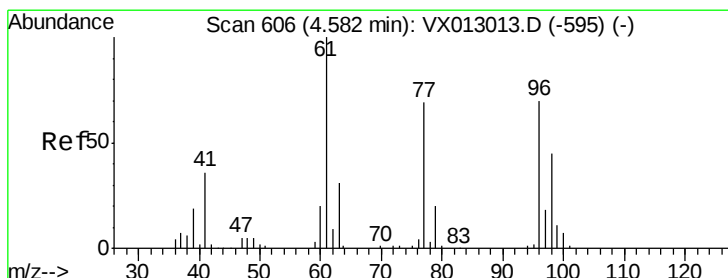
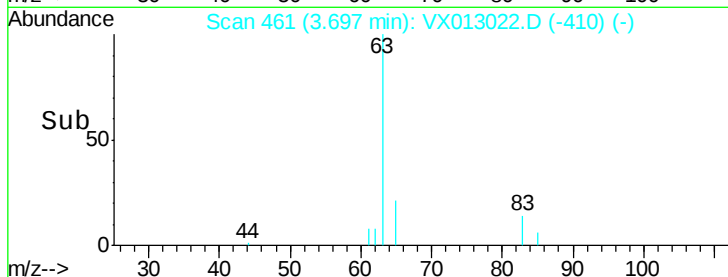
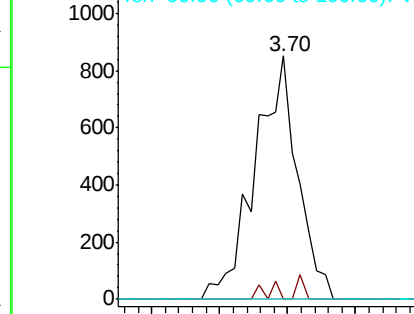
63 100

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



#27

cis-1,2-Dichloroethene

Concen: 5.070 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

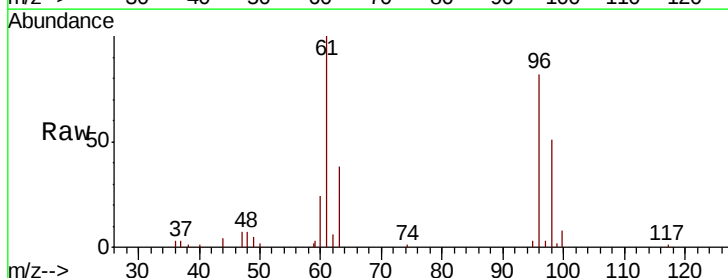
Tgt Ion: 96 Resp: 11298

Ion Ratio Lower Upper

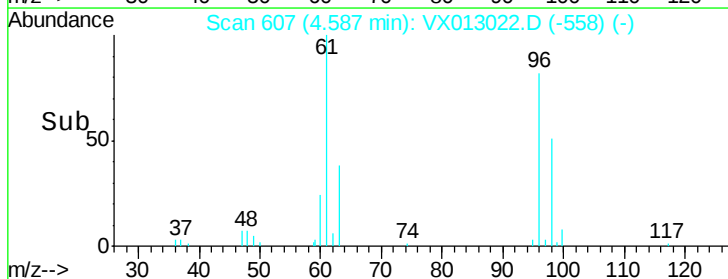
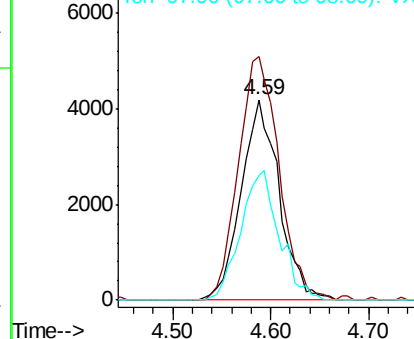
96 100

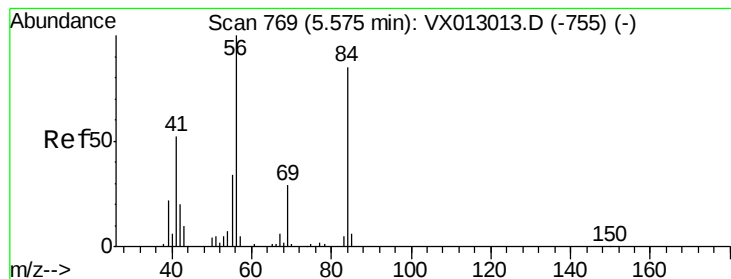
61 129.6 0.0 290.6

98 65.1 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

Cvclohexane

Concen: 1.185 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.09 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

S49-0552

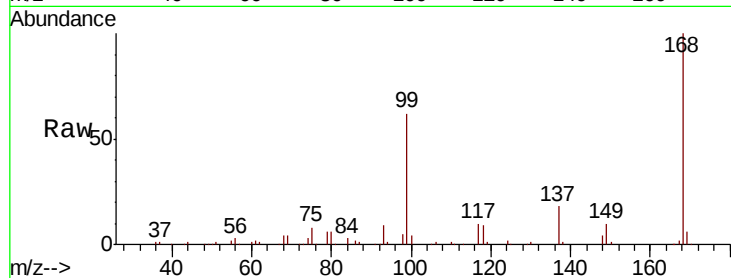
Tot Ion: 56 Resp: 3837

Ion Ratio Lower Upper

56 100

69 162.8 25.2 37.8#

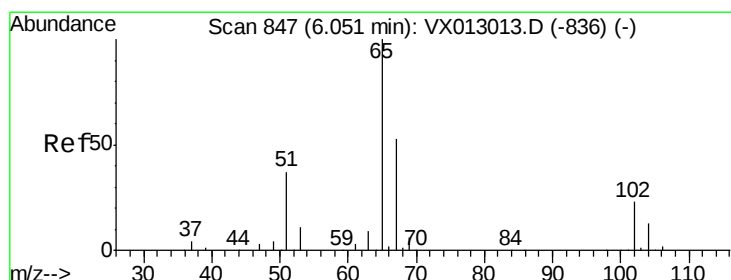
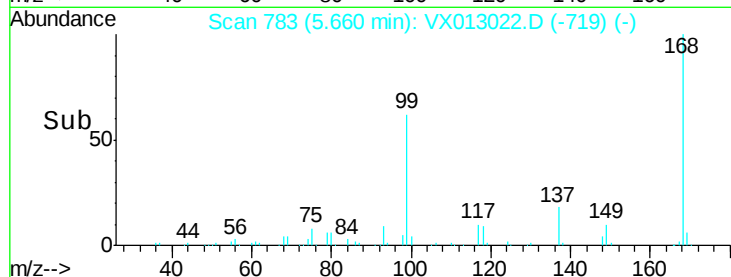
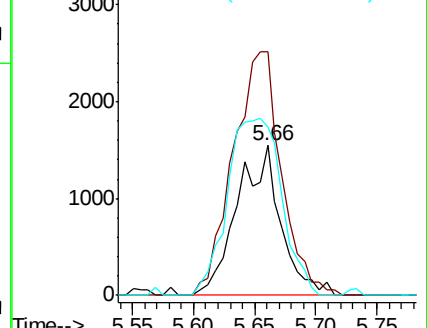
84 112.6 71.3 106.9#



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: 50.116 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX013022.D

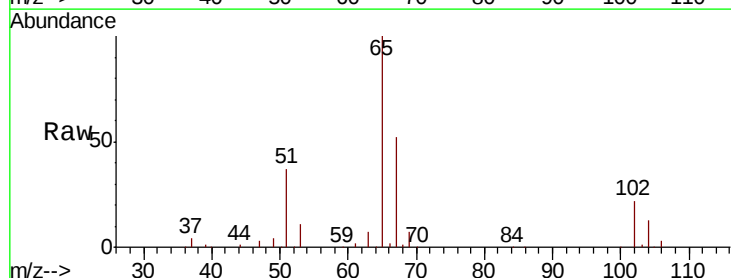
Acq: 11 Oct 2019 17:30

Tgt Ion: 65 Resp: 111793

Ion Ratio Lower Upper

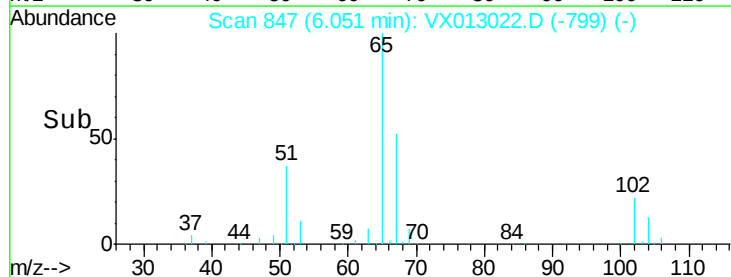
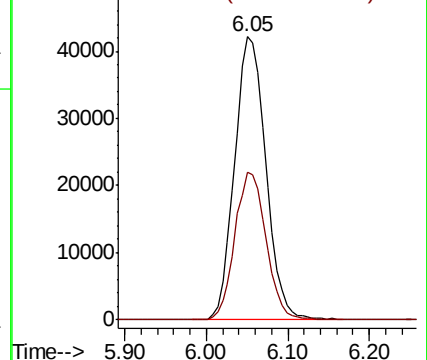
65 100

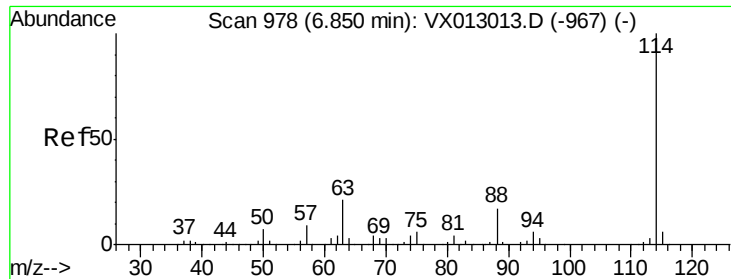
67 52.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

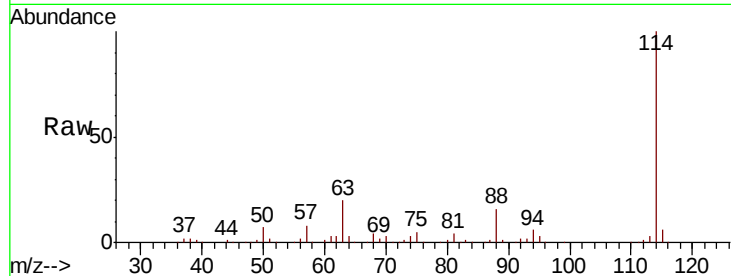




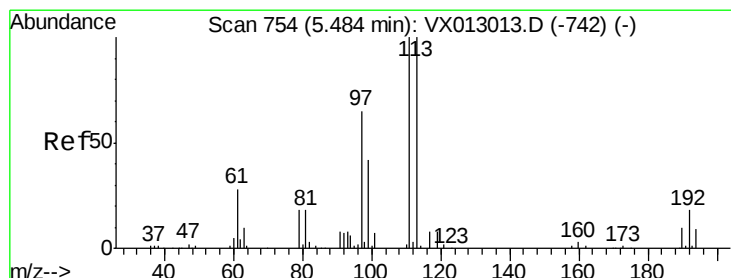
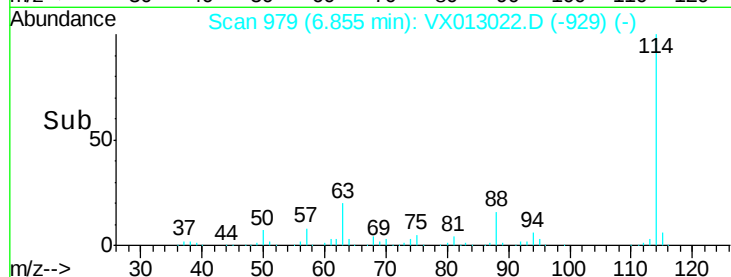
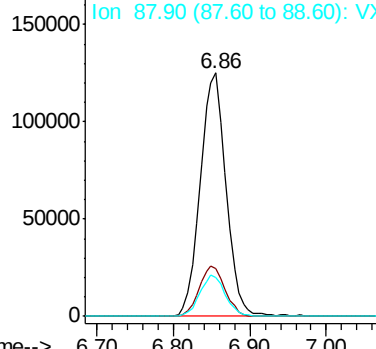
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX013022.D
Acq: 11 Oct 2019 17:30

Instrument :
MSVOA_X
ClientSampleId :
S49-0552

Tot Ion:114 Resp: 291230
Ion Ratio Lower Upper
114 100
63 19.6 0.0 40.8
88 15.9 0.0 33.8

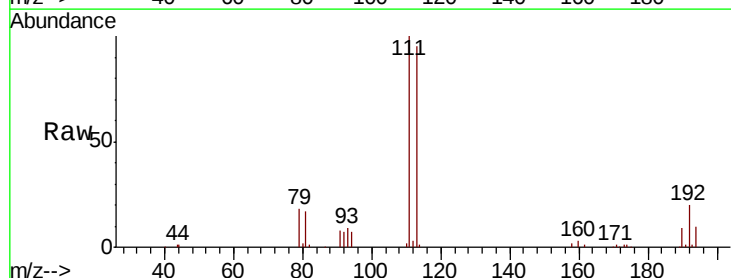


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

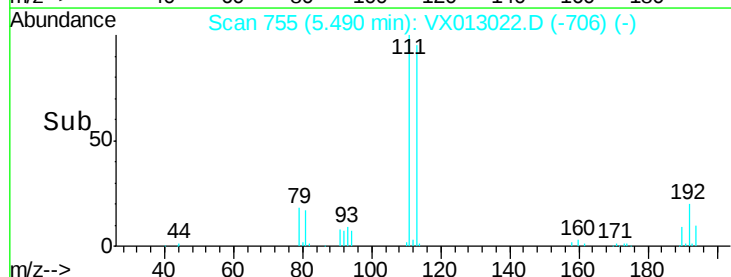
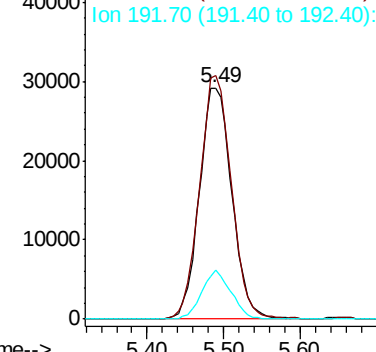


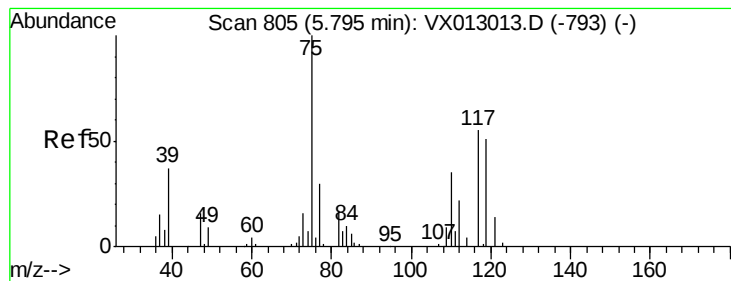
#35
Dibromofluoromethane
Concen: 51.318 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013022.D
Acq: 11 Oct 2019 17:30

Tgt Ion:113 Resp: 85779
Ion Ratio Lower Upper
113 100
111 102.9 83.2 124.8
192 19.1 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: 5.521 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

S49-0552

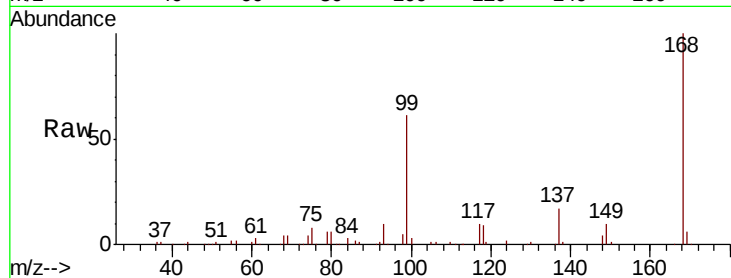
Tot Ion: 75 Resp: 14137

Ion Ratio Lower Upper

75 100

110 8.0 17.6 52.9#

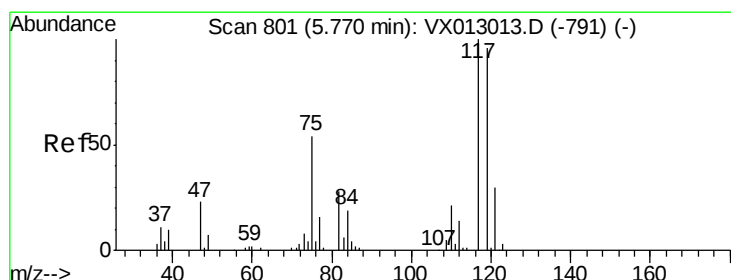
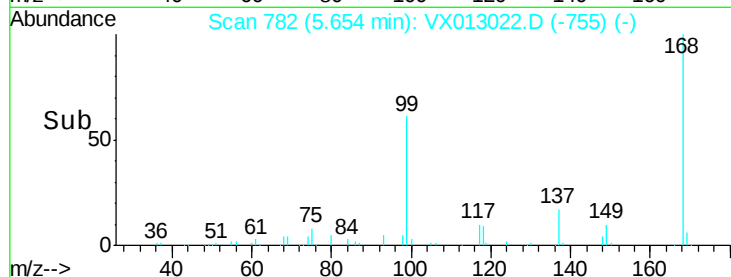
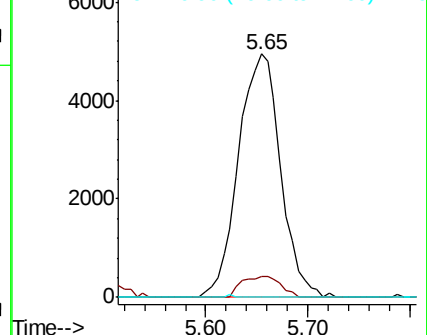
77 0.0 24.4 36.6#



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: 7.281 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

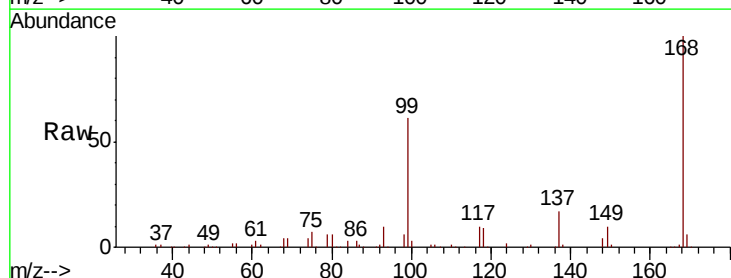
Tgt Ion: 117 Resp: 18145

Ion Ratio Lower Upper

117 100

119 4.0 74.5 111.7#

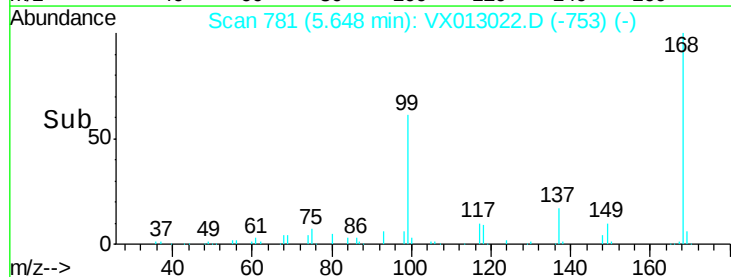
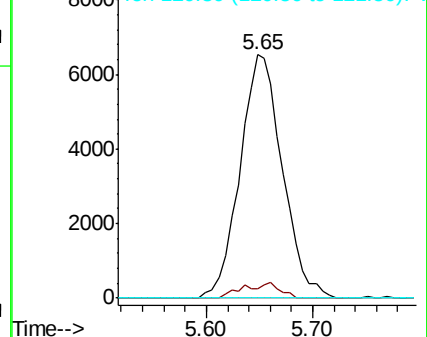
121 0.0 24.2 36.4#

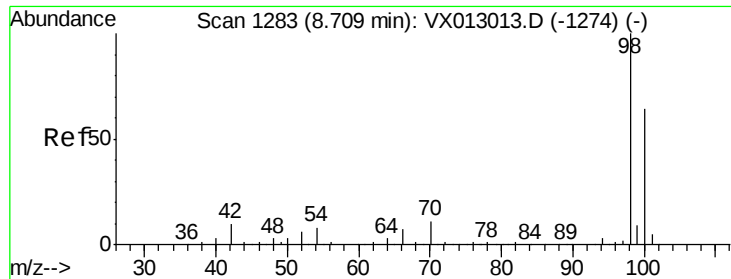


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

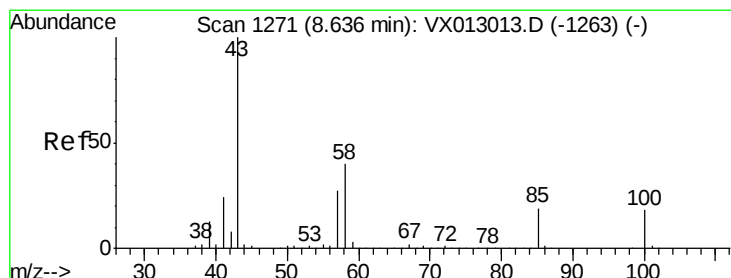
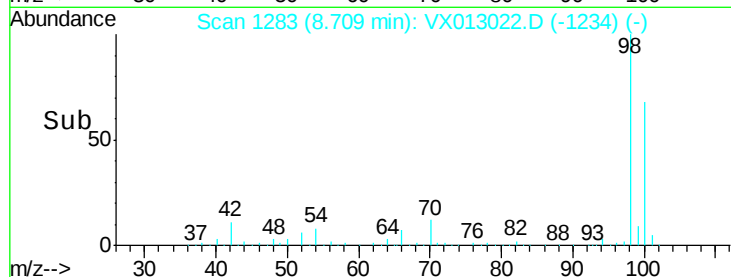
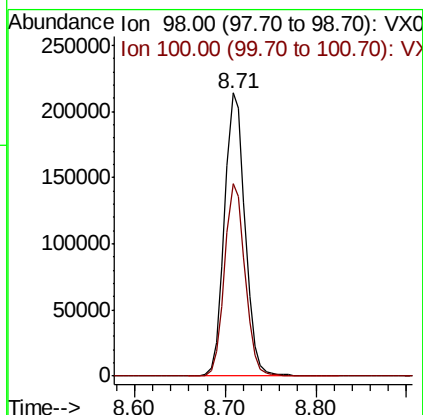
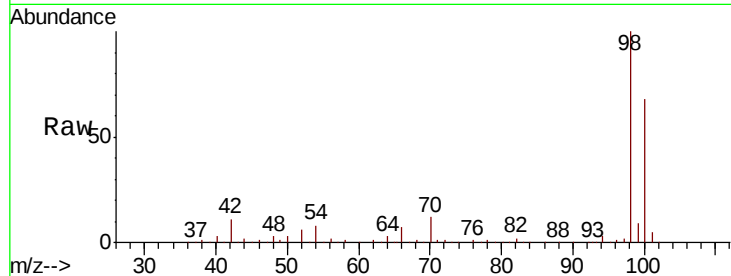




#50
Toluene-d8
Concen: 52.000 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013022.D
Acq: 11 Oct 2019 17:30

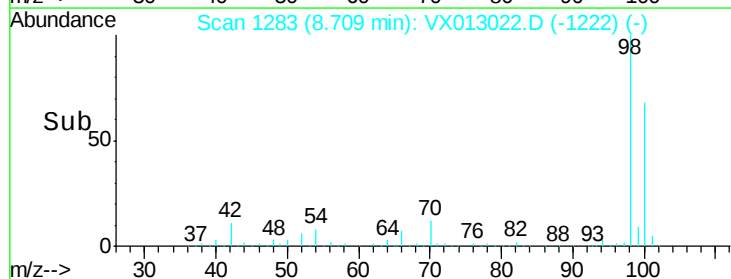
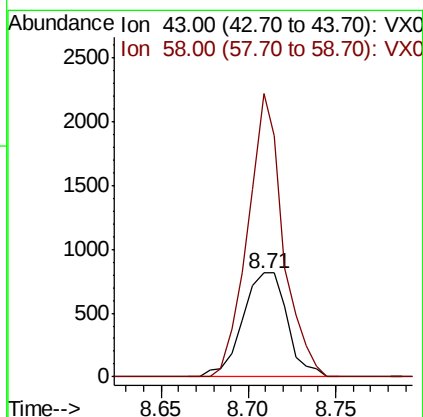
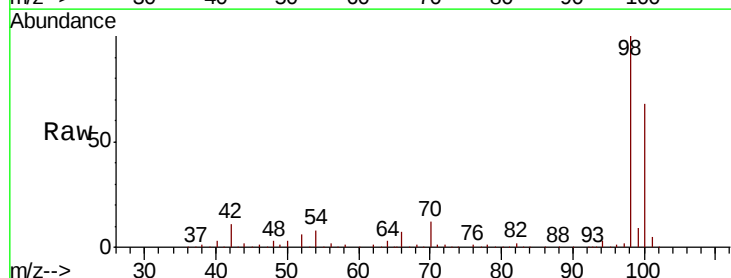
Instrument :
MSVOA_X
ClientSampleId :
S49-0552

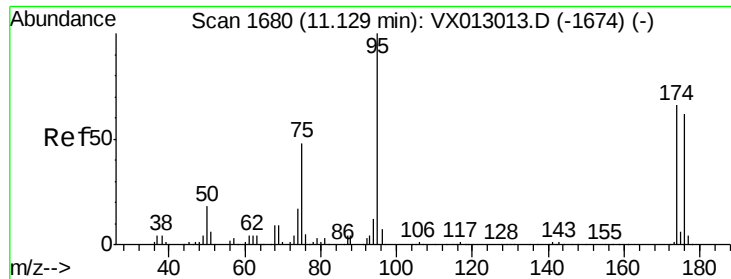
Tot Ion: 98 Resp: 339005
Ion Ratio Lower Upper
98 100
100 67.6 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.505 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX013022.D
Acq: 11 Oct 2019 17:30

Tgt Ion: 43 Resp: 1448
Ion Ratio Lower Upper
43 100
58 214.8 32.4 48.6#





#62

4-Bromofluorobenzene

Concen: 47.025 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

S49-0552

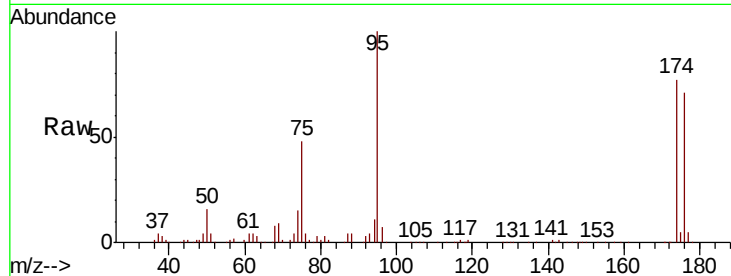
Tot Ion: 95 Resp: 119120

Ion Ratio Lower Upper

95 100

174 73.5 0.0 143.4

176 69.8 0.0 136.0



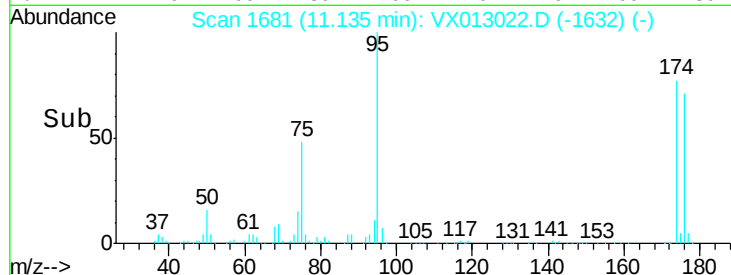
Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

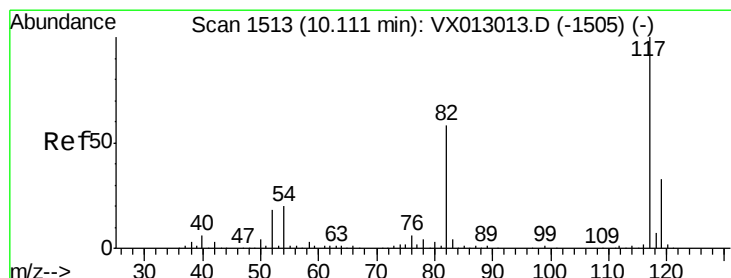
Ion 175.80 (175.50 to 176.50): V

11.13

11.10 11.20



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

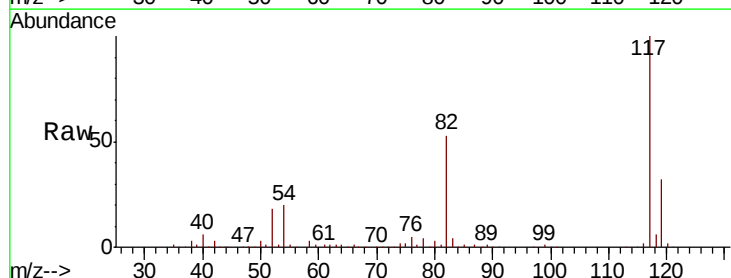
Tgt Ion: 117 Resp: 250316

Ion Ratio Lower Upper

117 100

82 53.3 44.1 66.1

119 31.5 25.8 38.8



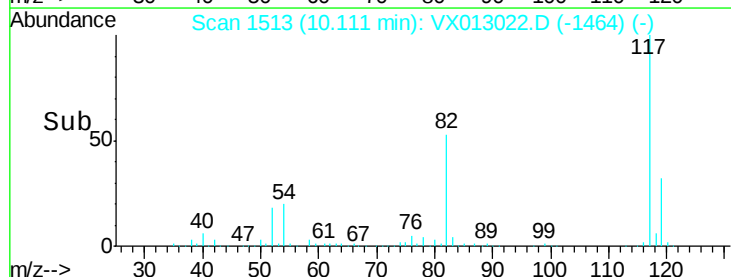
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

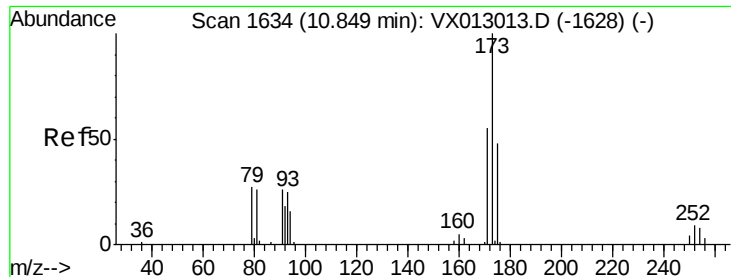
Ion 118.90 (118.60 to 119.60): V

10.11

10.00 10.20



Time-->



#71

Bromoform

Concen: 3.199 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

S49-0552

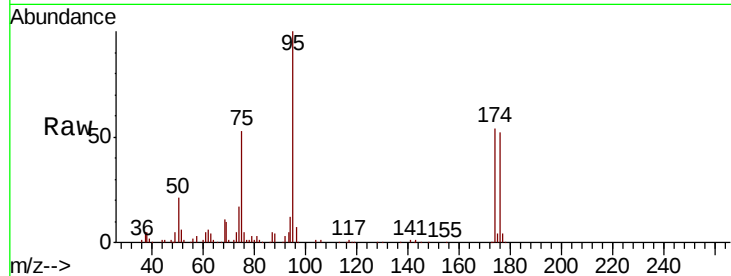
Tot Ion:173 Resp: 104

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

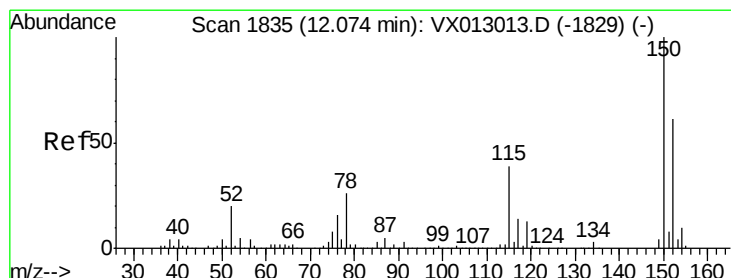
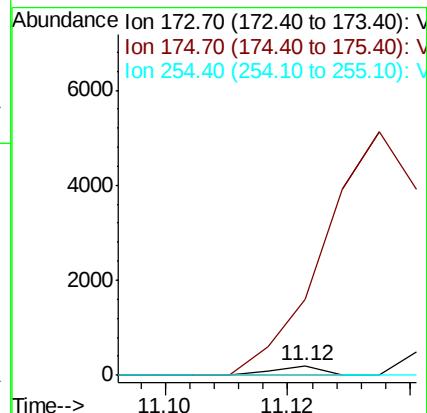
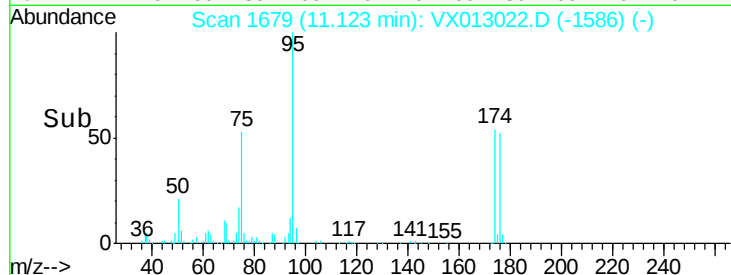
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

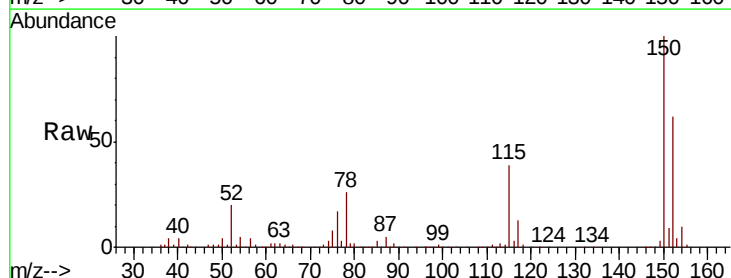
Tgt Ion:152 Resp: 101162

Ion Ratio Lower Upper

152 100

115 64.4 44.5 133.5

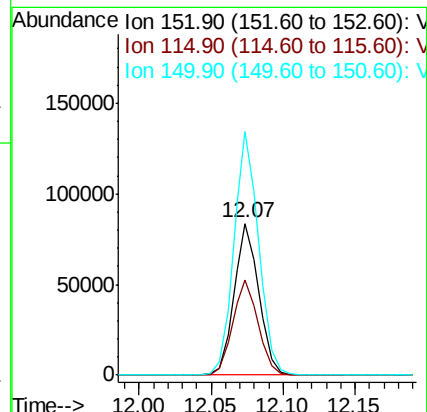
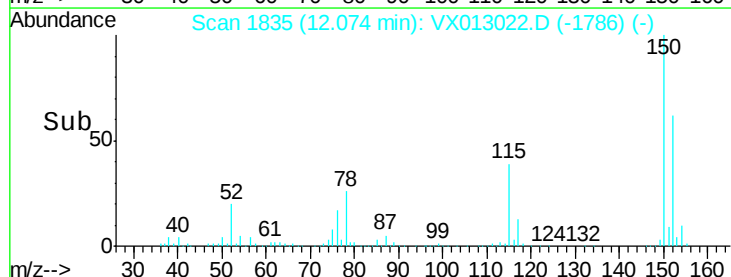
150 160.4 0.0 353.4

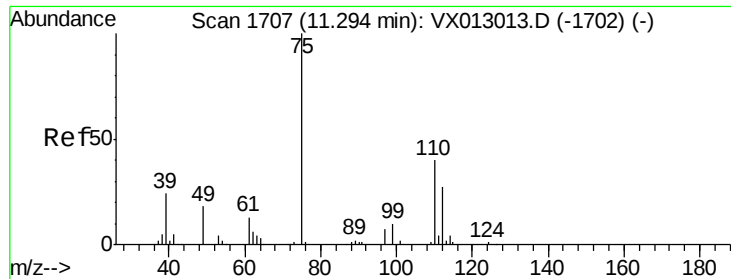


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.432 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampled :

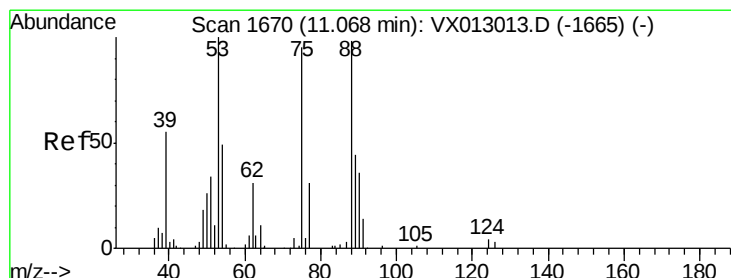
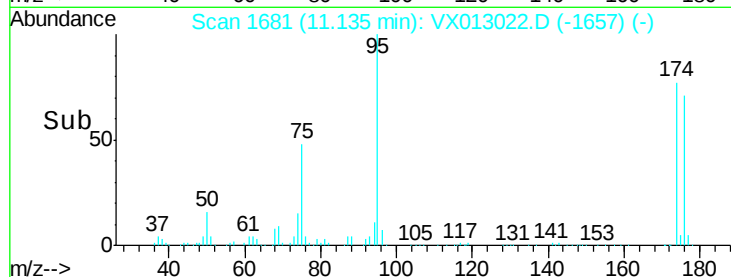
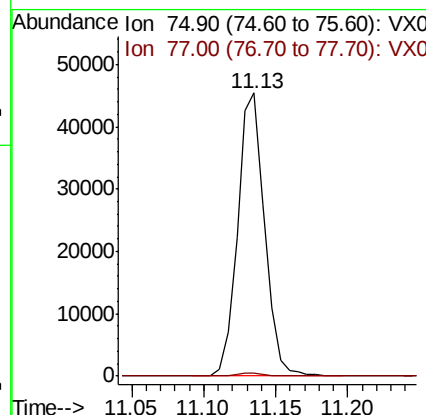
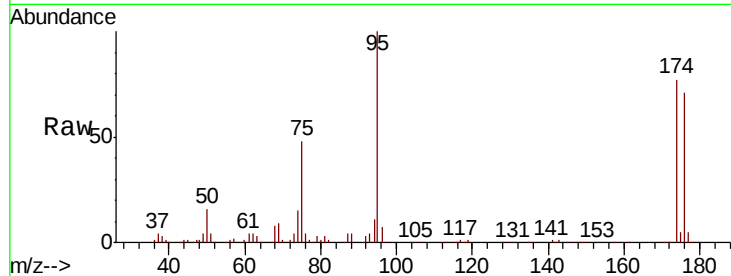
S49-0552

Tot Ion: 75 Resp: 59308

Ion Ratio Lower Upper

75 100

77 1.3 22.9 68.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.502 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

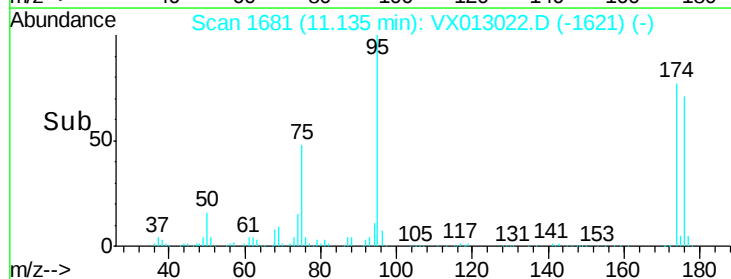
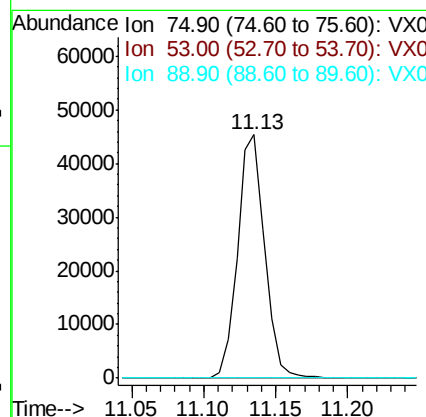
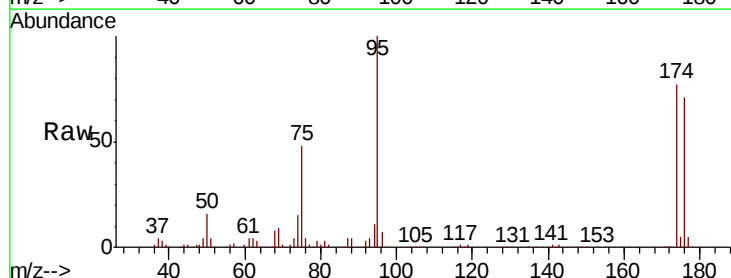
Tgt Ion: 75 Resp: 59308

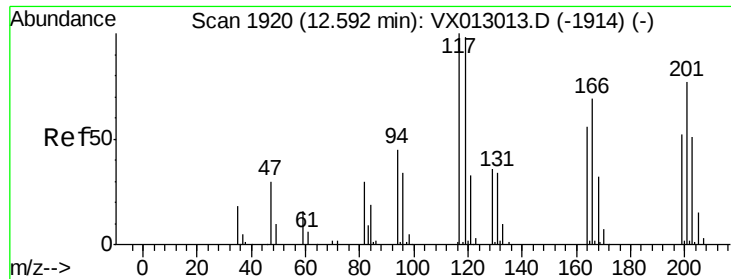
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 37.4 56.2#





#90

Hexachloroethane

Concen: 2.153 ug/l

RT: 12.75 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VX013022.D

Acq: 11 Oct 2019 17:30

Instrument :

MSVOA_X

ClientSampleId :

S49-0552

Tot Ion:117 Resp: 44

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#

