

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101419\
 Data File : VX013049.D
 Acq On : 14 Oct 2019 14:09
 Operator : JC/SP
 Sample : K5312-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0549

Quant Time: Oct 15 01:25:30 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	180602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	296474	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247380	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98053	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	109706	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.49	113	88414	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
50) Toluene-d8	8.71	98	342138	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	11.14	95	111715	43.32	ug/l	0.00
Spiked Amount			Recovery	=	86.64%	

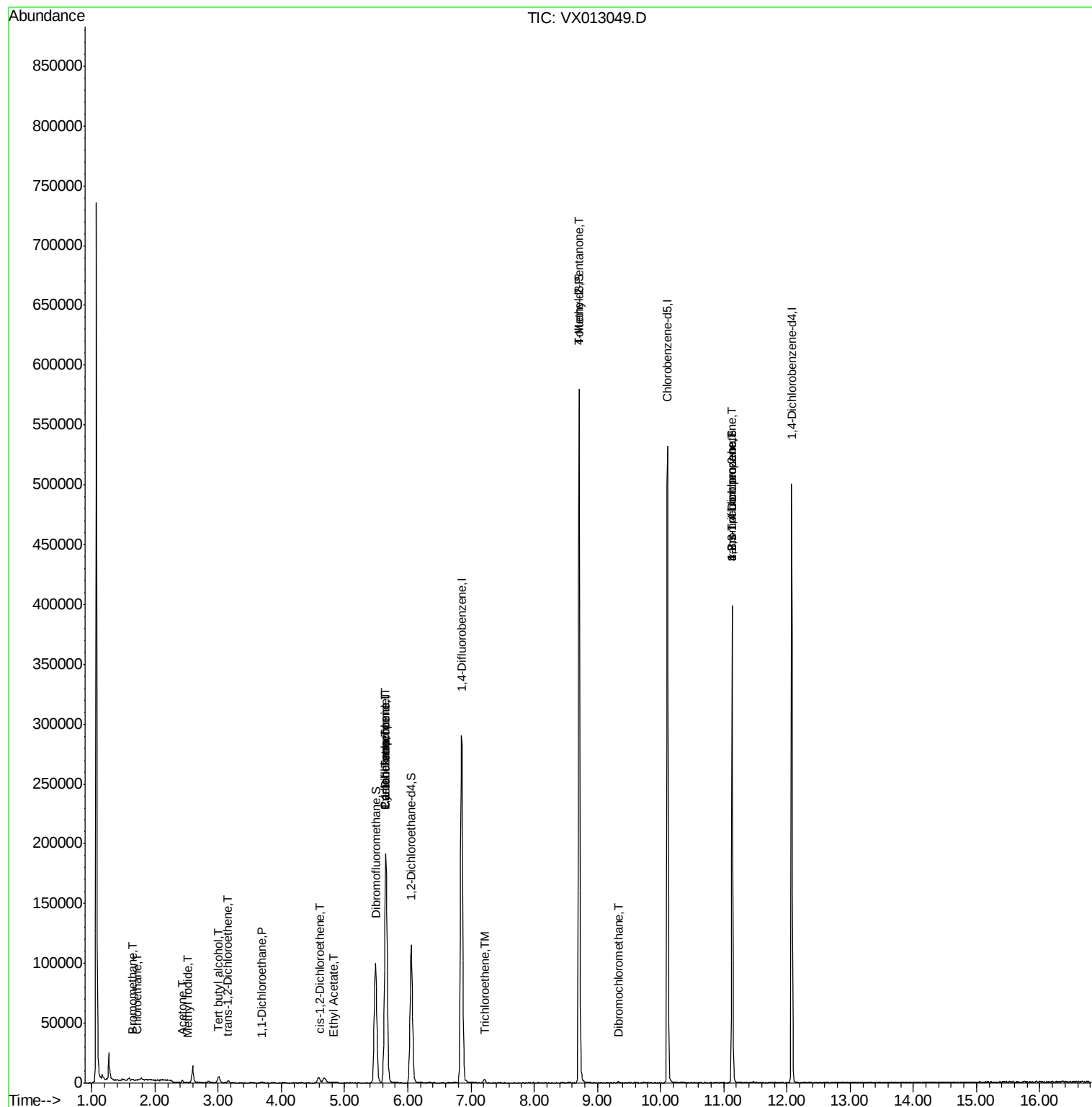
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	377	0.439	ug/l #	51
6) Chloroethane	1.72	64	841	1.028	ug/l #	43
10) Methyl Iodide	2.52	142	292	5.210	ug/l #	87
11) Tert butyl alcohol	3.00	59	3836	6.411	ug/l #	74
16) Acetone	2.43	43	2227	1.872	ug/l #	88
21) trans-1,2-Dichloroethene	3.16	96	919	0.470	ug/l #	82
24) 1,1-Dichloroethane	3.69	63	766	0.219	ug/l #	81
27) cis-1,2-Dichloroethene	4.61	96	3203	1.421	ug/l #	86
31) Cyclohexane	5.64	56	3616	1.104	ug/l #	5
36) 1,1-Dichloropropene	5.65	75	13739	5.271	ug/l #	50
37) Ethyl Acetate	4.83	43	1589	0.545	ug/l #	67
38) Carbon Tetrachloride	5.65	117	19344	7.624	ug/l #	19
44) Trichloroethene	7.22	130	1332	0.624	ug/l #	96
51) 4-Methyl-2-Pentanone	8.70	43	1415	0.485	ug/l #	1
60) Dibromochloromethane	9.33	129	64	1.885	ug/l #	10
76) 1,2,3-Trichloropropane	11.14	75	56251	25.865	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	56251	65.162	ug/l #	10

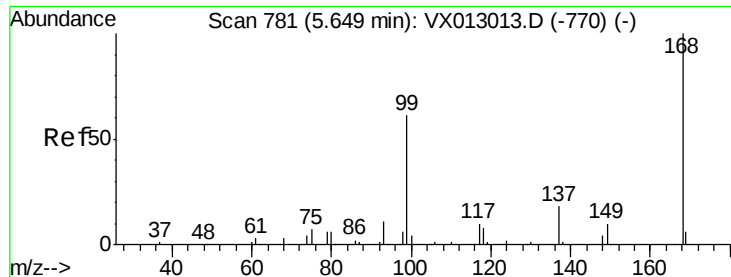
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

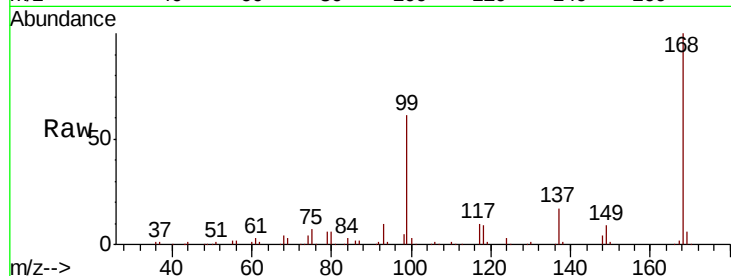
S49-0549

Tot Ion:168 Resp: 180602

Ion Ratio Lower Upper

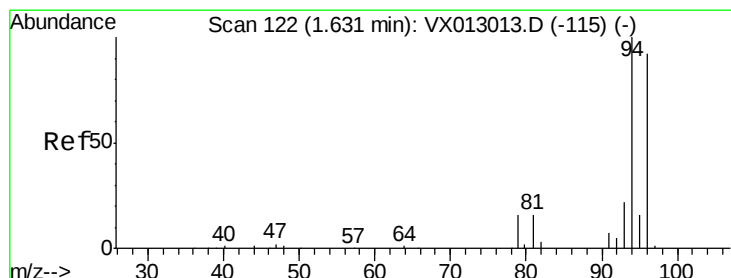
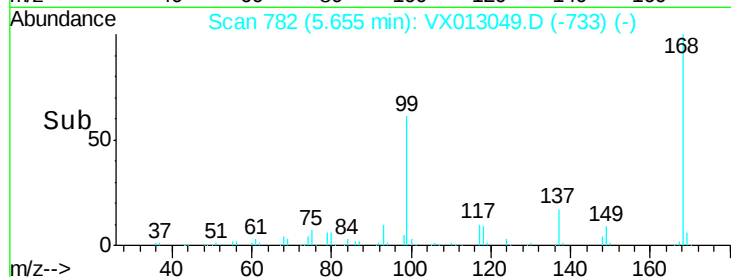
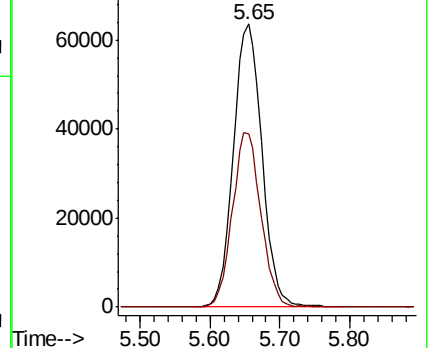
168 100

99 61.1 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.439 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013049.D

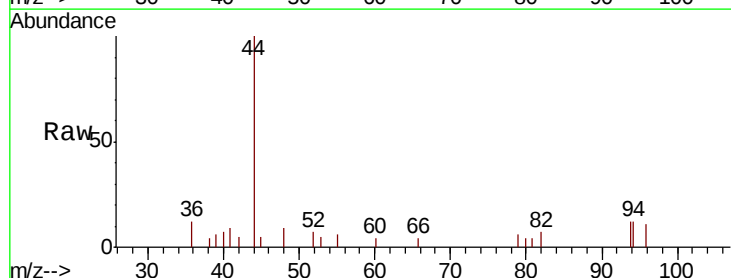
Acq: 14 Oct 2019 14:09

Tgt Ion: 94 Resp: 377

Ion Ratio Lower Upper

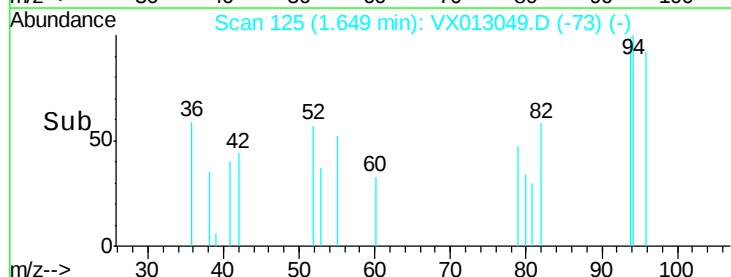
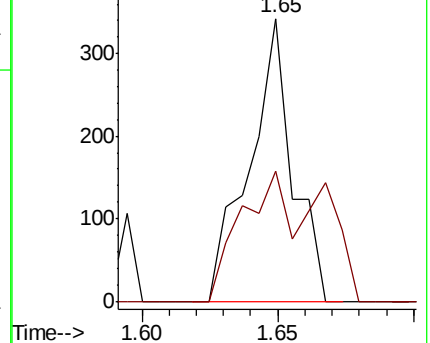
94 100

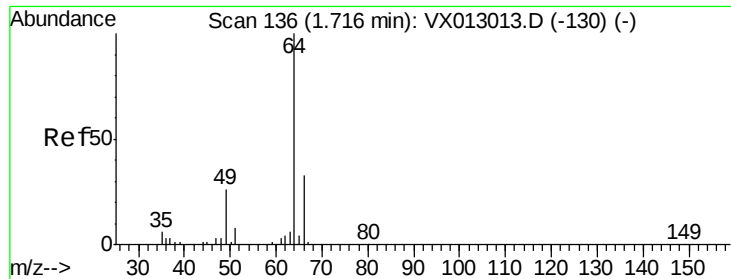
96 46.1 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.028 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampled :

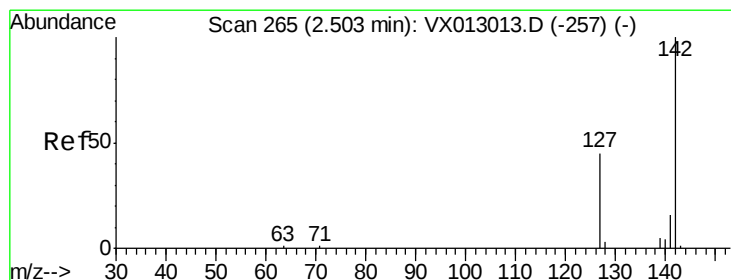
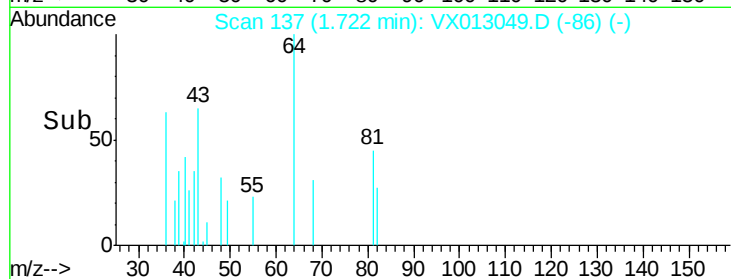
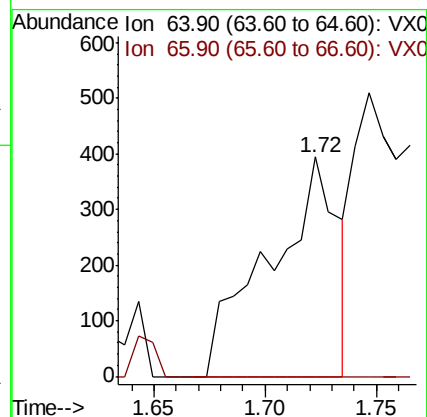
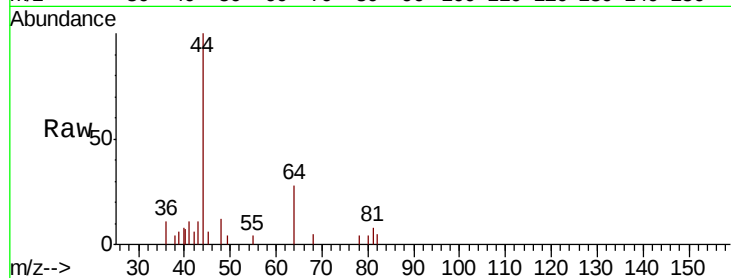
S49-0549

Tot Ion: 64 Resp: 841

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.210 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

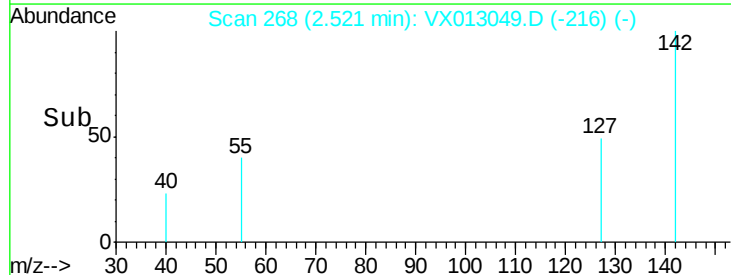
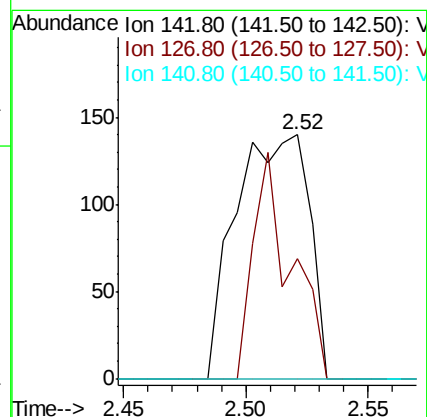
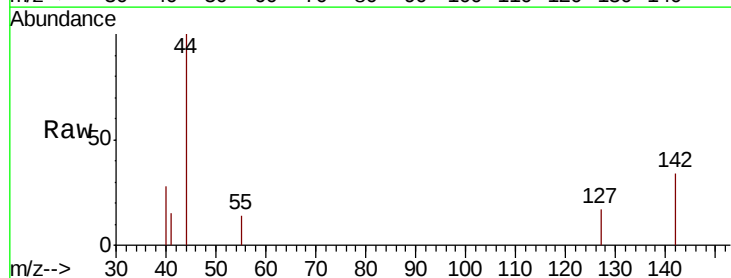
Tgt Ion: 142 Resp: 292

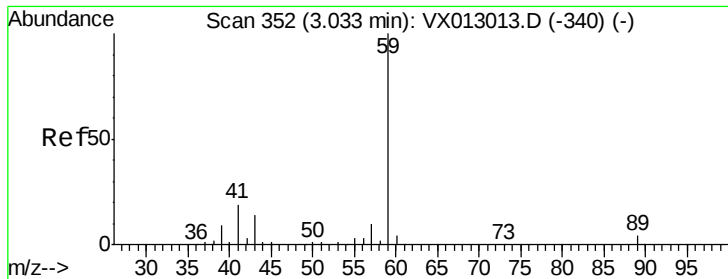
Ion Ratio Lower Upper

142 100

127 47.6 34.9 52.3

141 0.0 11.6 17.4#

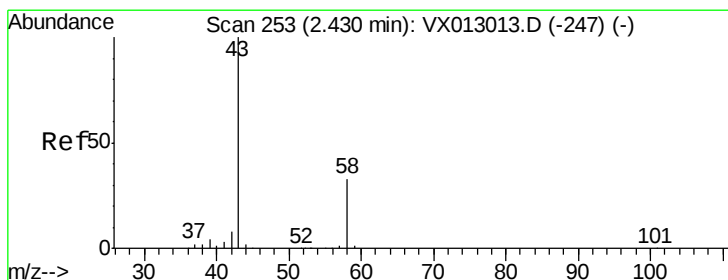
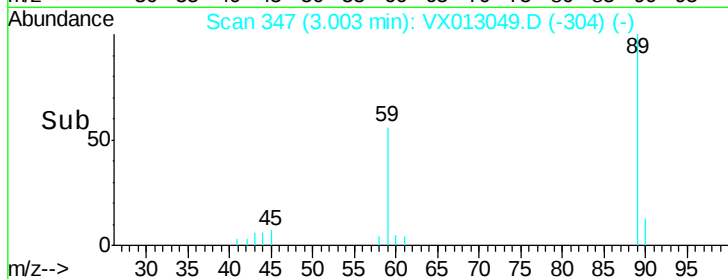
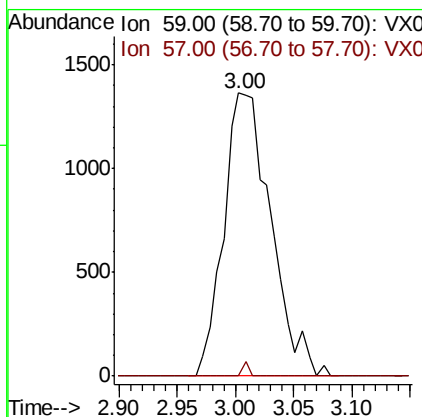
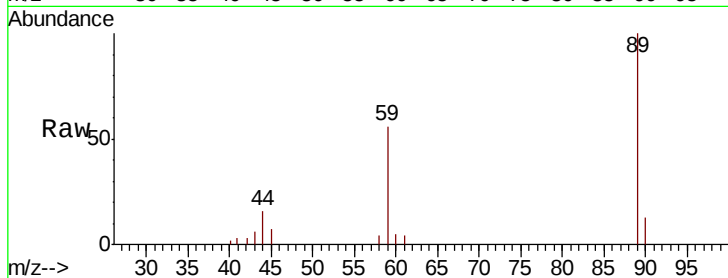




#11
Tert butyl alcohol
Concen: 6.411 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

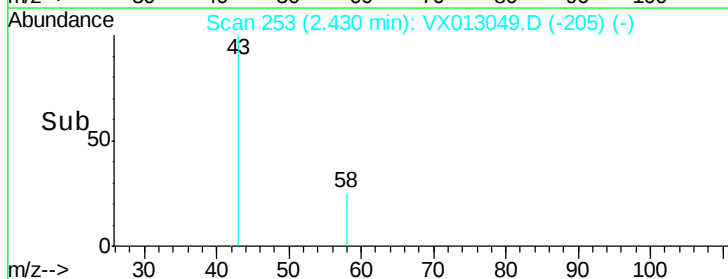
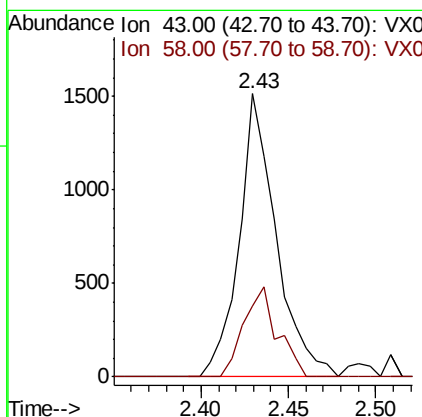
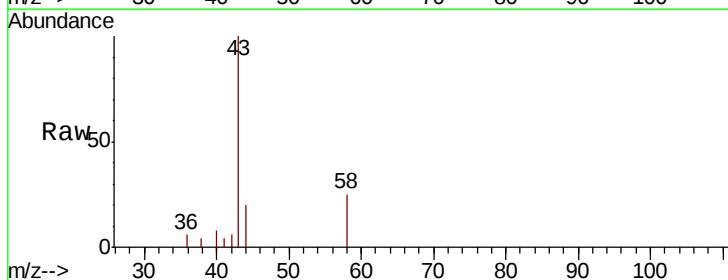
Instrument :
MSVOA_X
ClientSampled :
S49-0549

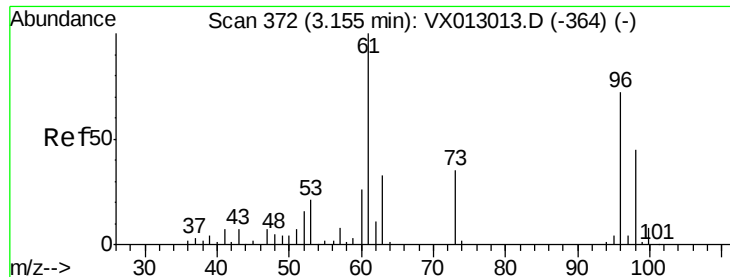
Tot Ion: 59 Resp: 3836
Ion Ratio Lower Upper
59 100
57 0.7 8.3 12.5#



#16
Acetone
Concen: 1.872 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

Tgt Ion: 43 Resp: 2227
Ion Ratio Lower Upper
43 100
58 24.9 25.4 38.2#





#21

trans-1,2-Dichloroethene

Concen: 0.470 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

S49-0549

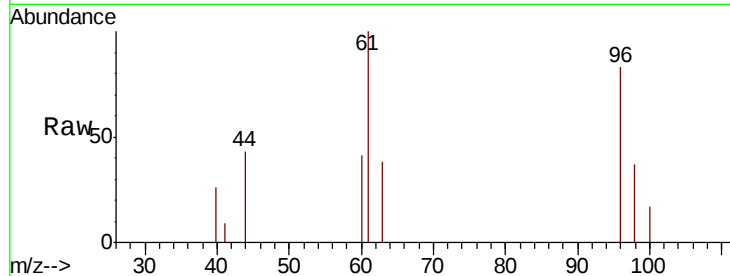
Tot Ion: 96 Resp: 919

Ion Ratio Lower Upper

96 100

61 120.9 110.4 165.6

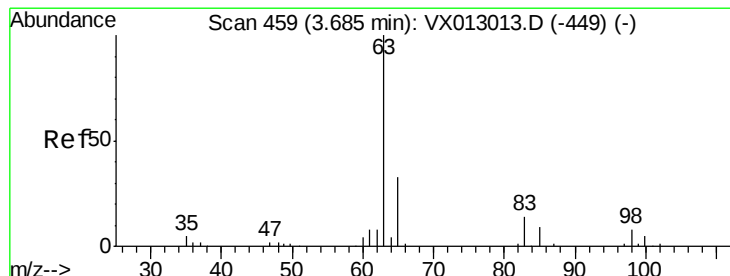
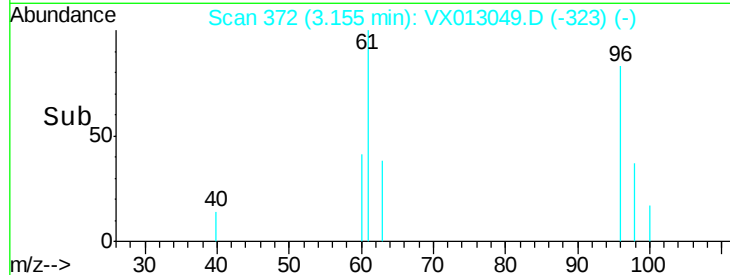
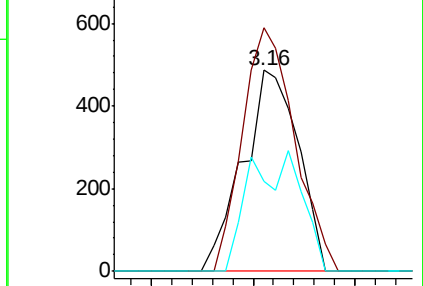
98 44.8 51.5 77.3#



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: 0.219 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

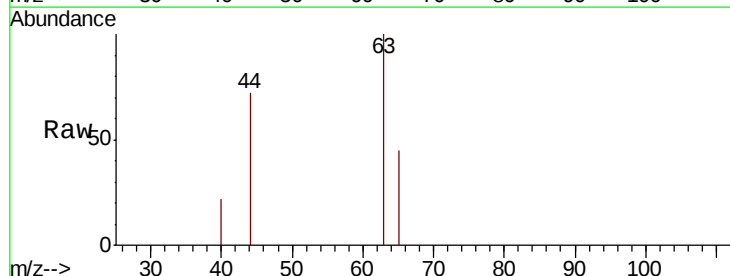
Tgt Ion: 63 Resp: 766

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.5#

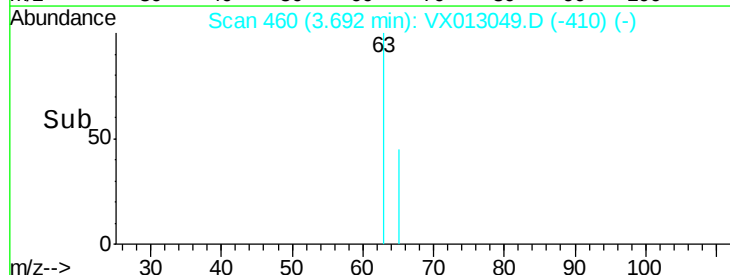
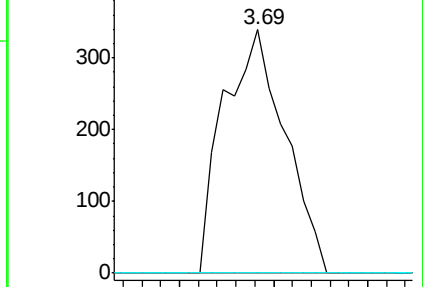
100 0.0 2.3 6.9#

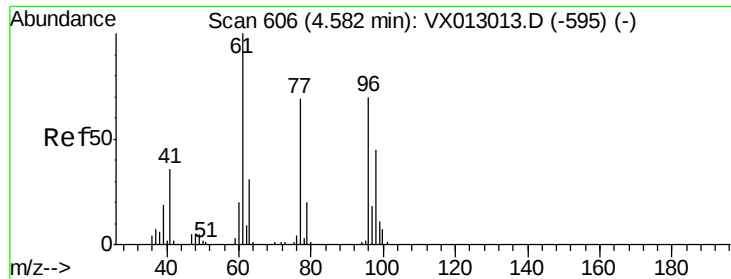


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



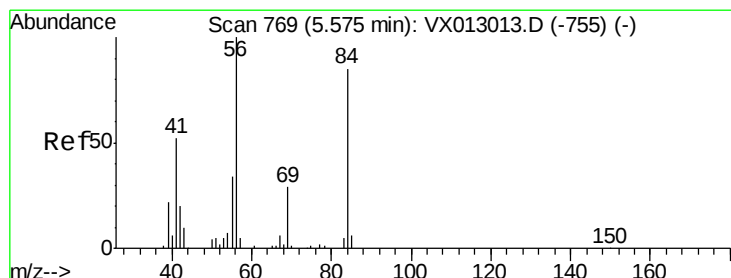
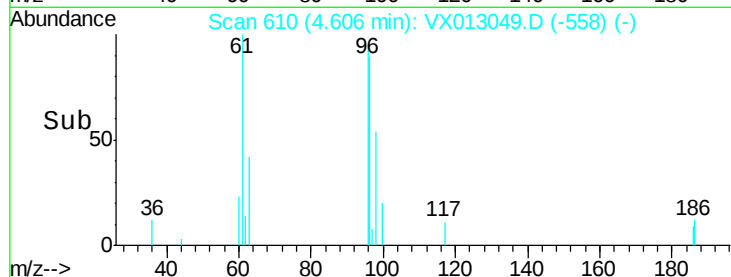
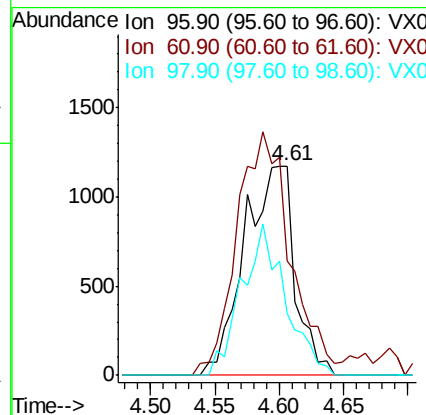
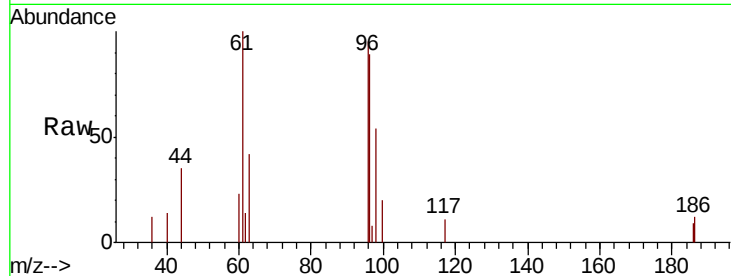


#27

cis-1,2-Dichloroethene
 Concen: 1.421 ug/l
 RT: 4.61 min Scan# 610
 Delta R.T. 0.02 min
 Lab File: VX013049.D
 Acq: 14 Oct 2019 14:09

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0549

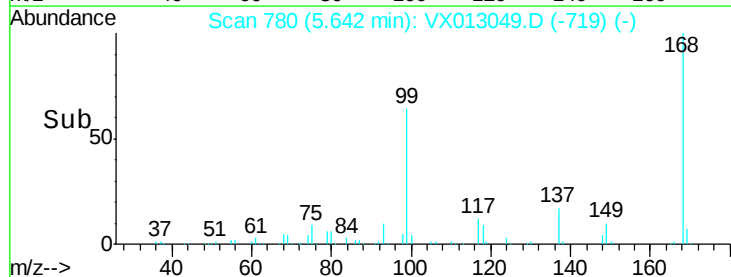
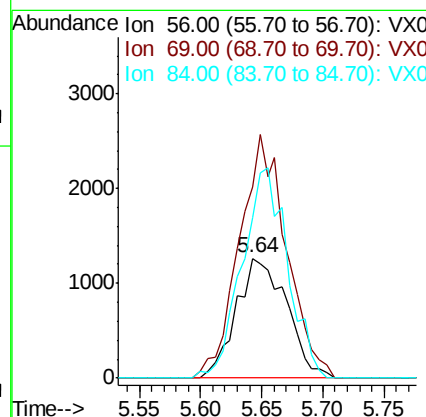
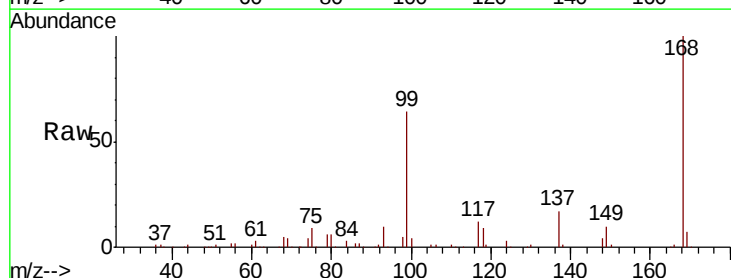
Tot Ion: 96 Resp: 3203
 Ion Ratio Lower Upper
 96 100
 61 122.3 0.0 290.6
 98 62.5 0.0 128.8

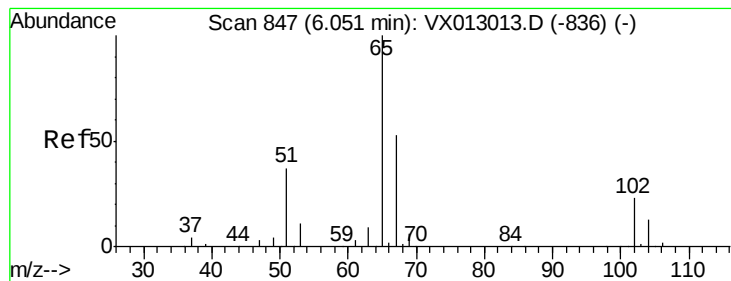


#31

Cyclohexane
 Concen: 1.104 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. 0.07 min
 Lab File: VX013049.D
 Acq: 14 Oct 2019 14:09

Tgt Ion: 56 Resp: 3616
 Ion Ratio Lower Upper
 56 100
 69 159.0 25.2 37.8#
 84 133.9 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 48.601 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

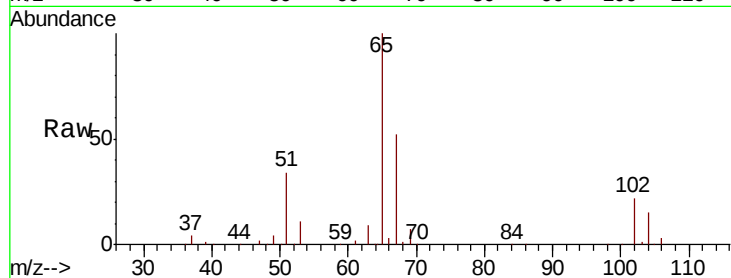
S49-0549

Tot Ion: 65 Resp: 109706

Ion Ratio Lower Upper

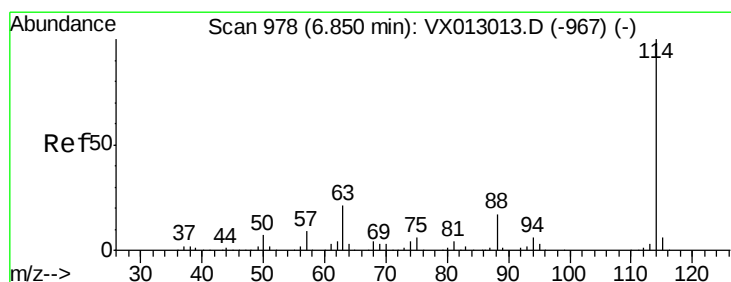
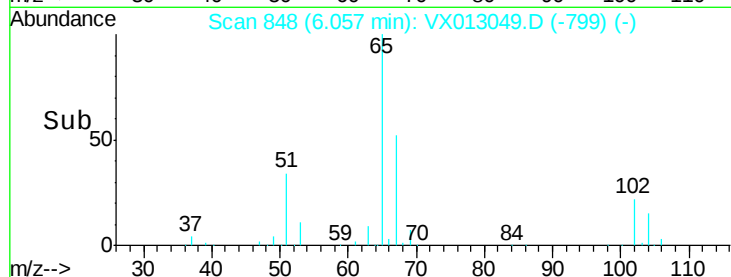
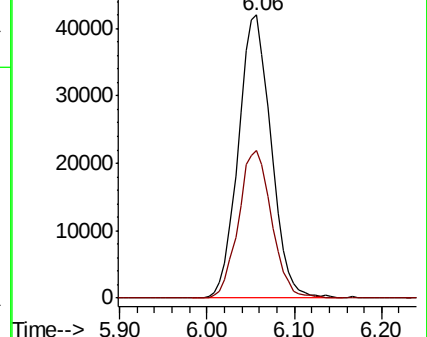
65 100

67 52.3 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: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

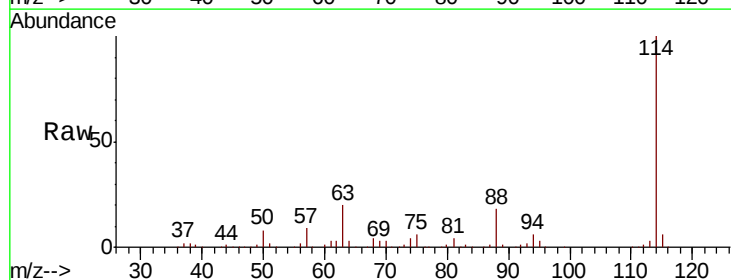
Tgt Ion: 114 Resp: 296474

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

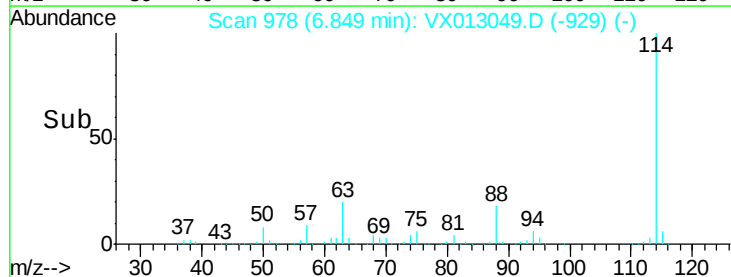
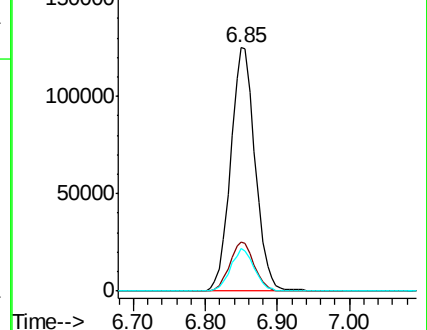
88 17.7 0.0 33.8

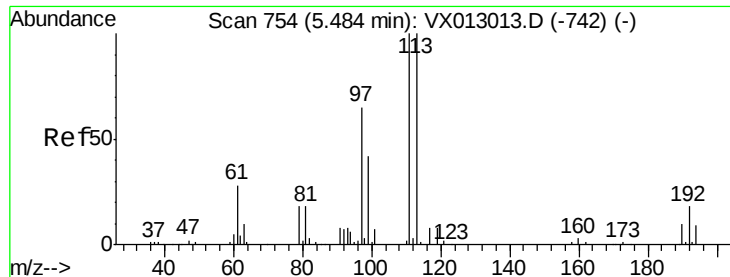


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.959 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

S49-0549

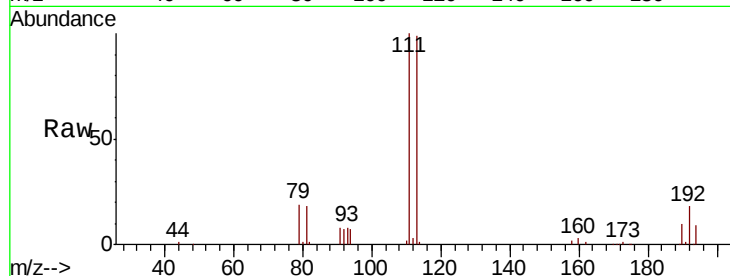
Tot Ion:113 Resp: 88414

Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

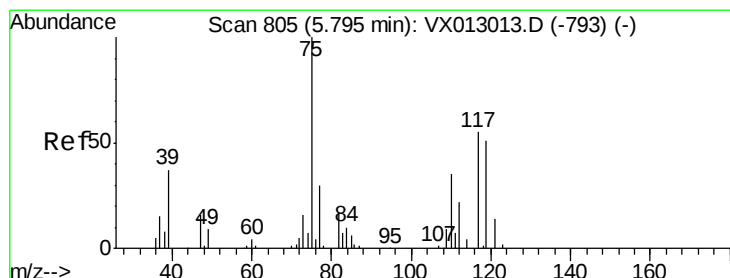
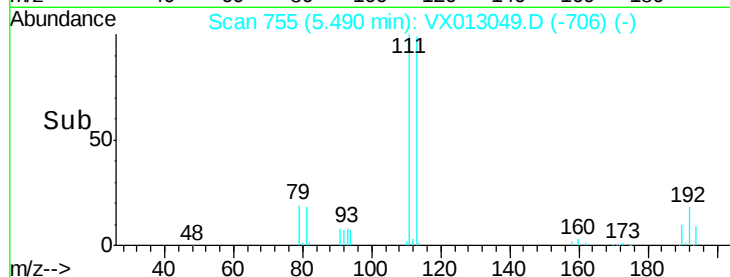
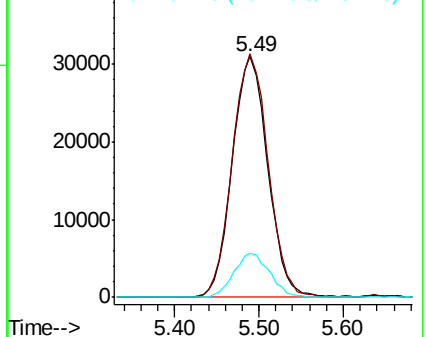
192 18.4 15.4 23.2



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: 5.271 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

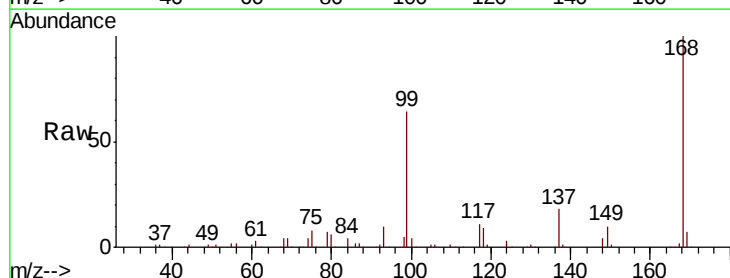
Tgt Ion: 75 Resp: 13739

Ion Ratio Lower Upper

75 100

110 9.4 17.6 52.9#

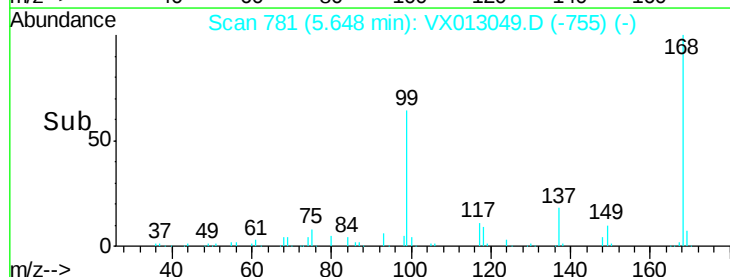
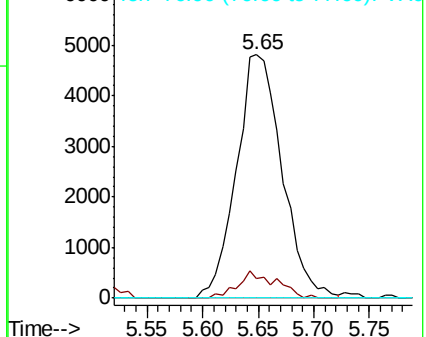
77 0.0 24.4 36.6#

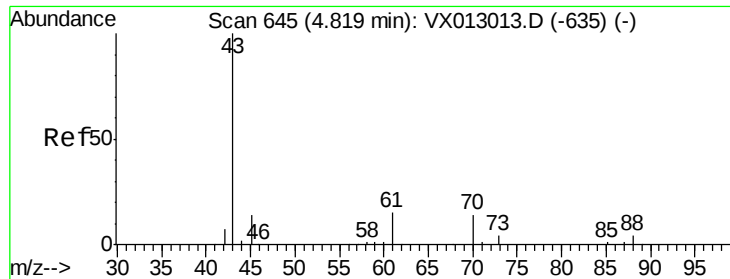


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

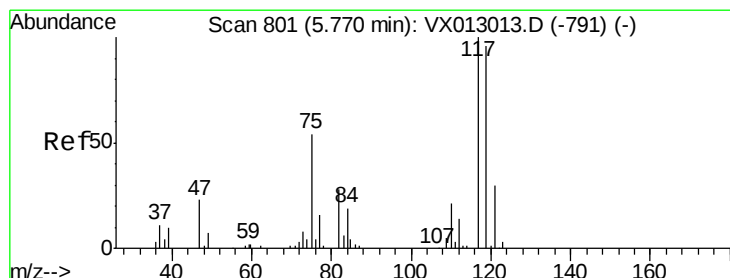
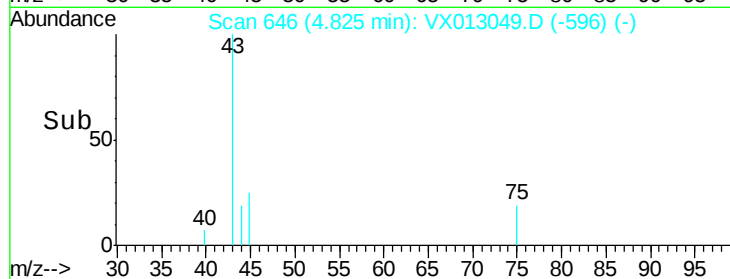
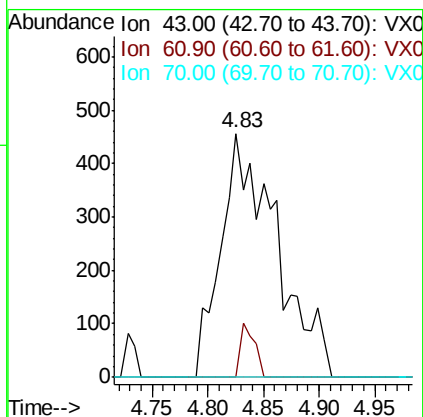
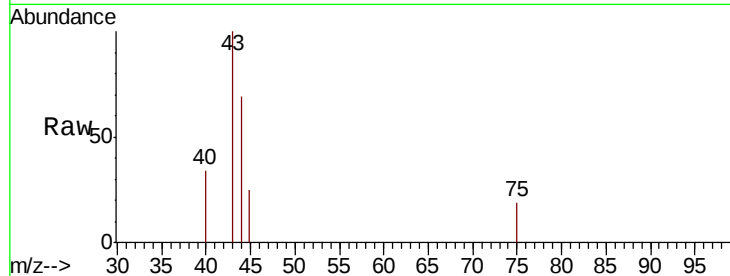




#37
Ethyl Acetate
Concen: 0.545 ug/l
RT: 4.83 min Scan# 646
Delta R.T. 0.01 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

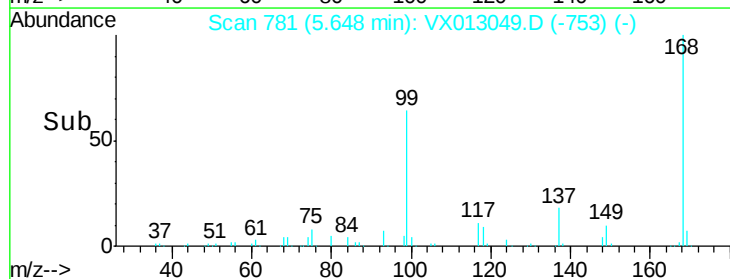
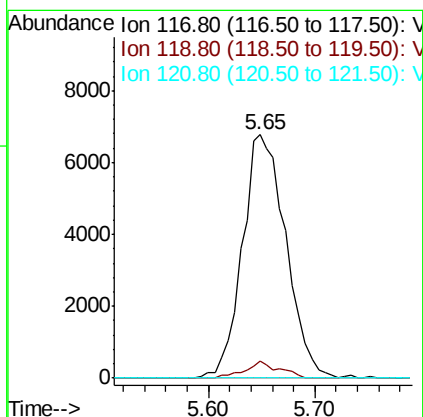
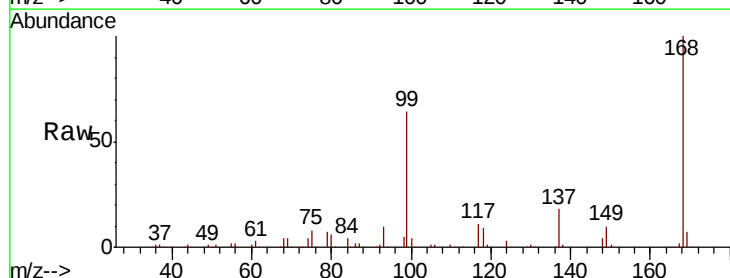
Instrument :
MSVOA_X
ClientSampleId :
S49-0549

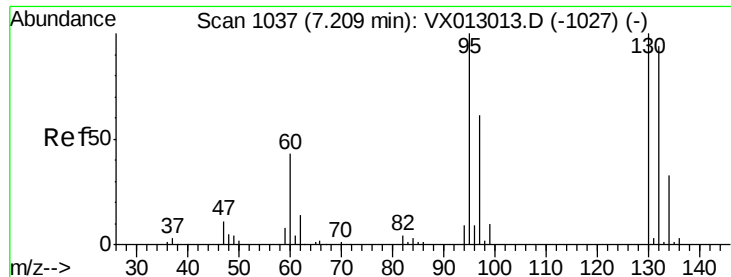
Tot Ion: 43 Resp: 1589
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 7.624 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

Tgt Ion: 117 Resp: 19344
Ion Ratio Lower Upper
117 100
119 7.0 74.5 111.7#
121 0.0 24.2 36.4#

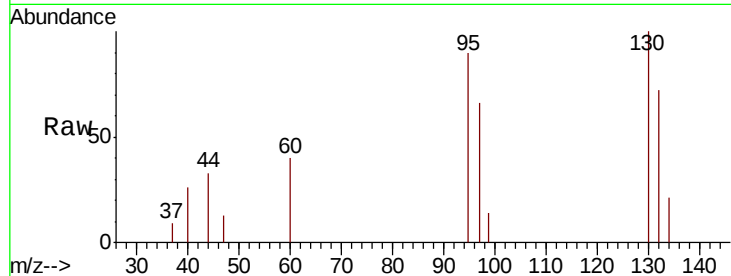




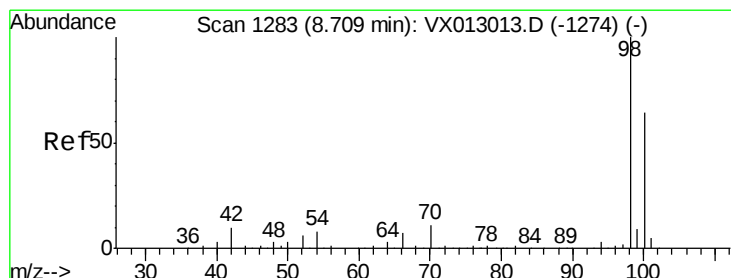
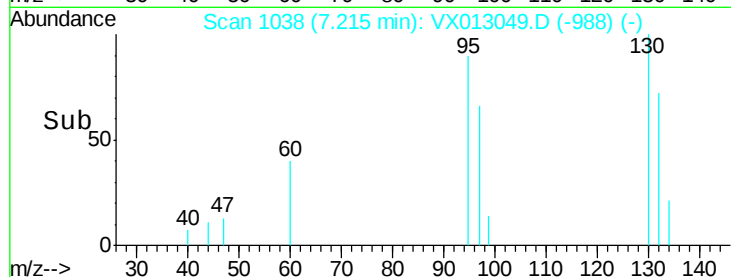
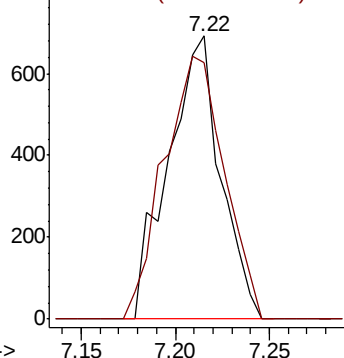
#44
 Trichloroethene
 Concen: 0.624 ug/l
 RT: 7.22 min Scan# 1038
 Delta R.T. 0.01 min
 Lab File: VX013049.D
 Acq: 14 Oct 2019 14:09

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0549

Tot Ion:130 Resp: 1332
 Ion Ratio Lower Upper
 130 100
 95 90.5 0.0 189.2

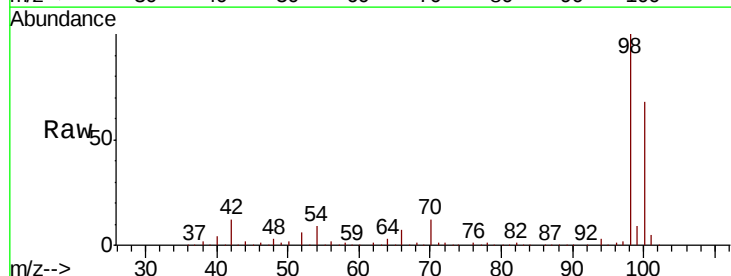


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

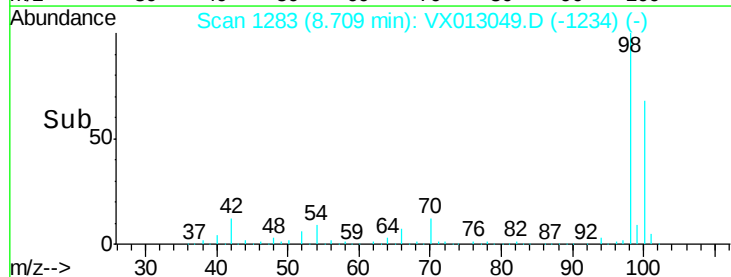
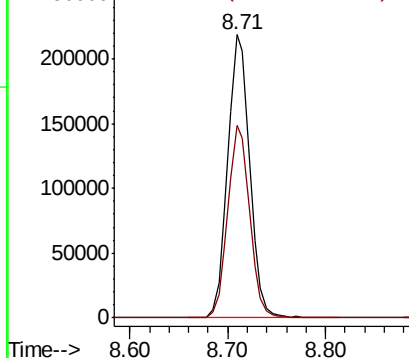


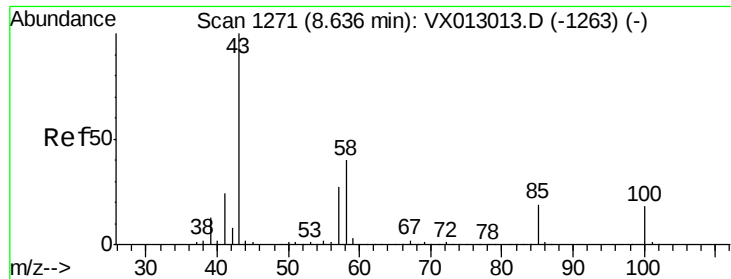
#50
 Toluene-d8
 Concen: 51.553 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX013049.D
 Acq: 14 Oct 2019 14:09

Tgt Ion: 98 Resp: 342138
 Ion Ratio Lower Upper
 98 100
 100 67.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.485 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. 0.07 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

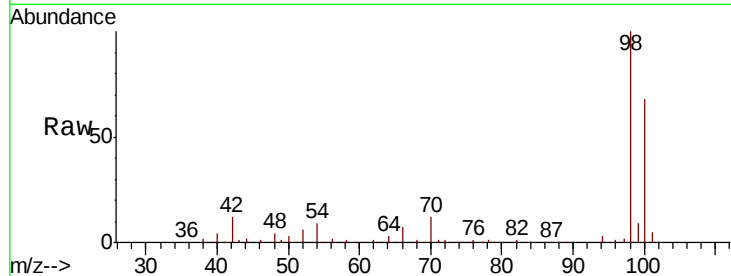
S49-0549

Tot Ion: 43 Resp: 1415

Ion Ratio Lower Upper

43 100

58 195.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX013013.D (-1263) (-)

Ion 58.00 (57.70 to 58.70): VX013013.D (-1263) (-)

2000

1500

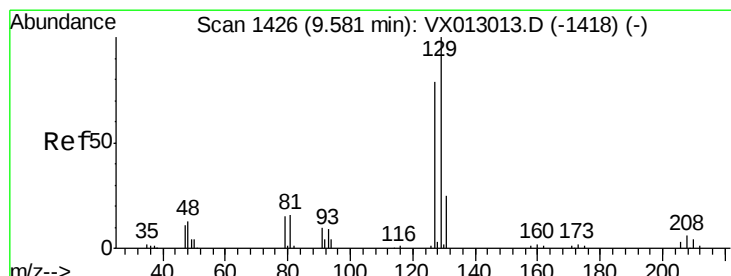
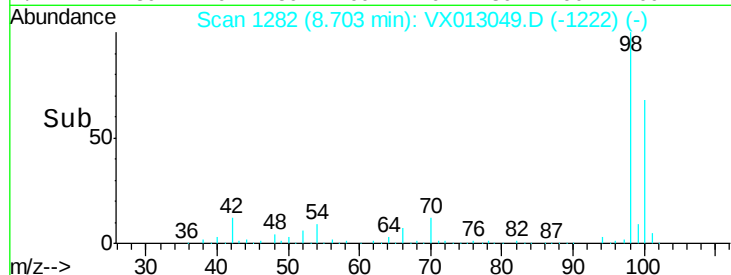
1000

500

0

8.65 8.70 8.75

Time-->



#60

Dibromochloromethane

Concen: 1.885 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013049.D

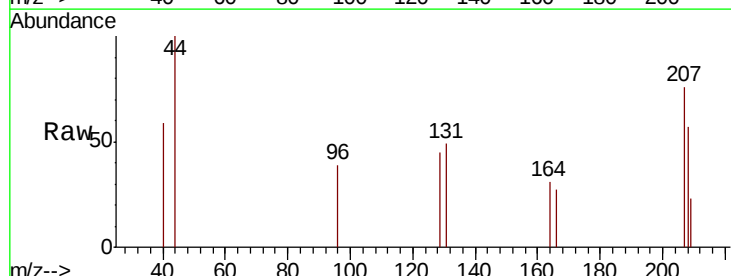
Acq: 14 Oct 2019 14:09

Tgt Ion: 129 Resp: 64

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): VX013013.D (-1418) (-)

Ion 126.80 (126.50 to 127.50): VX013013.D (-1418) (-)

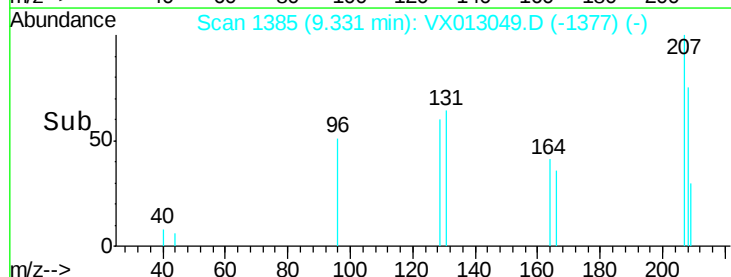
100

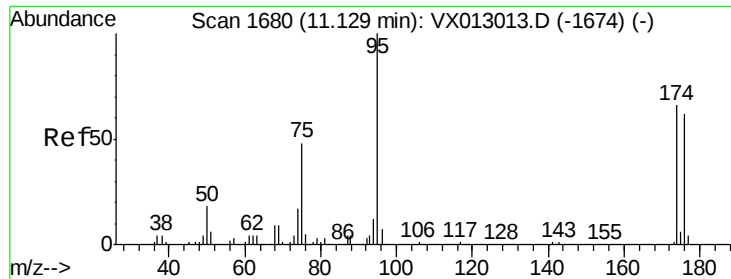
50

0

9.30 9.32 9.34

Time-->

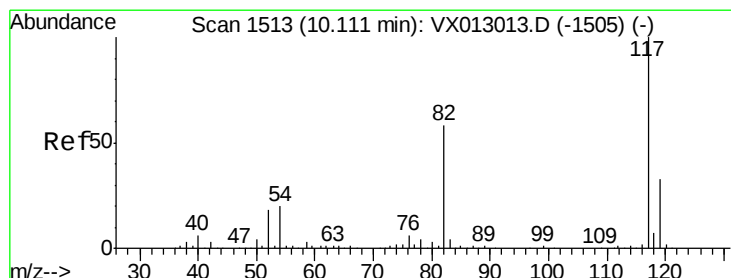
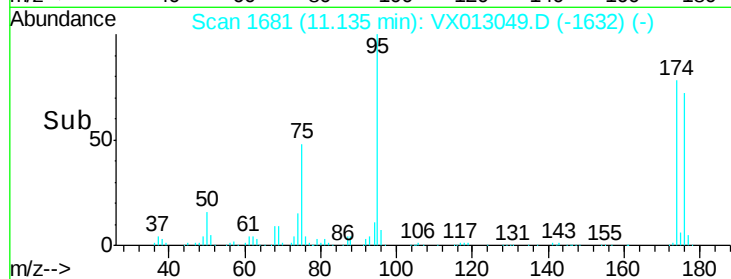
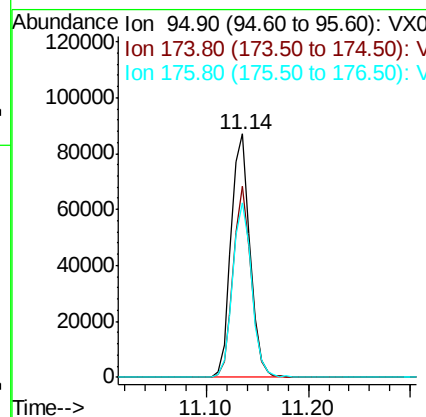
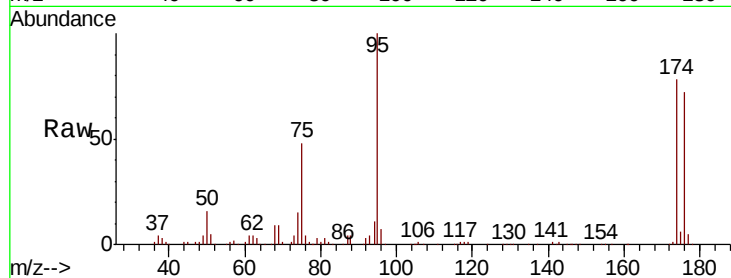




#62
4-Bromofluorobenzene
Concen: 43.322 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

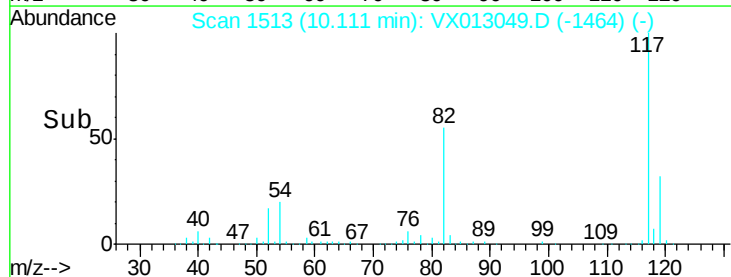
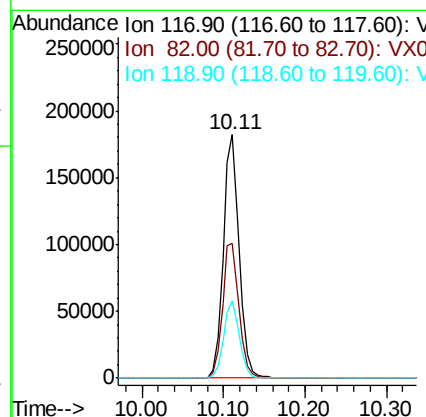
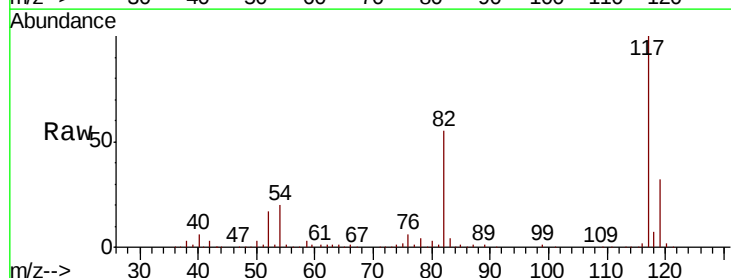
Instrument :
MSVOA_X
ClientSampleId :
S49-0549

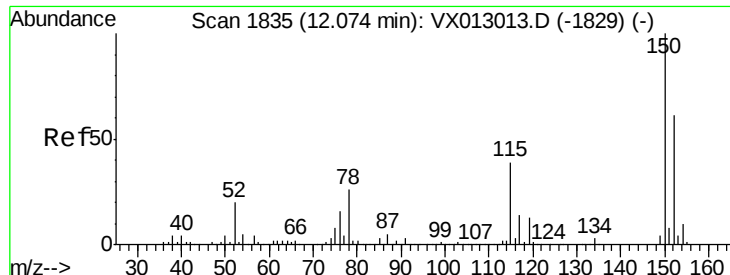
Tot Ion: 95 Resp: 111715
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.4
176 71.8 0.0 136.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013049.D
Acq: 14 Oct 2019 14:09

Tgt Ion: 117 Resp: 247380
Ion Ratio Lower Upper
117 100
82 55.3 44.1 66.1
119 31.6 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: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

S49-0549

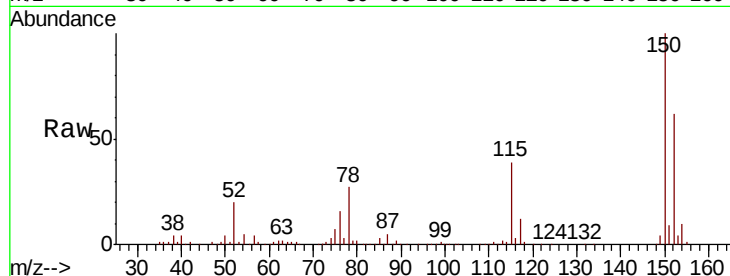
Tot Ion:152 Resp: 98053

Ion Ratio Lower Upper

152 100

115 62.5 44.5 133.5

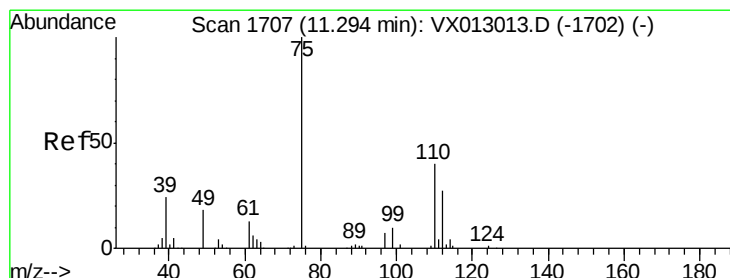
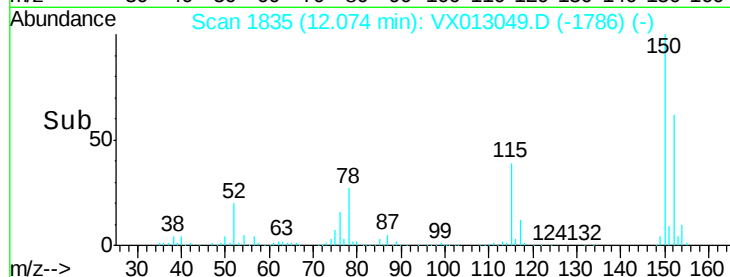
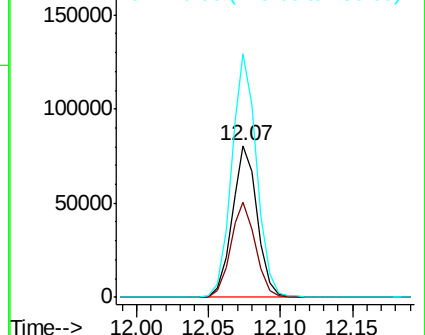
150 159.9 0.0 353.4



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: 25.865 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013049.D

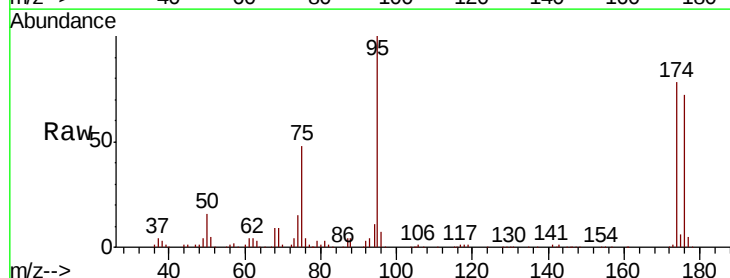
Acq: 14 Oct 2019 14:09

Tgt Ion: 75 Resp: 56251

Ion Ratio Lower Upper

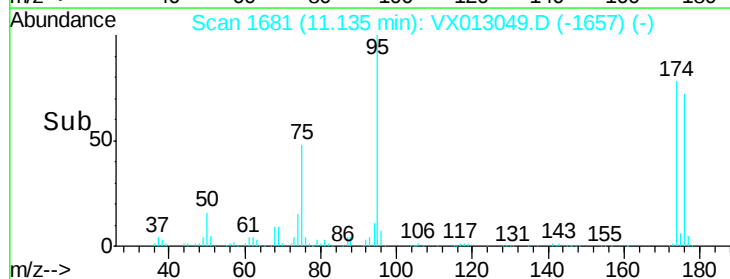
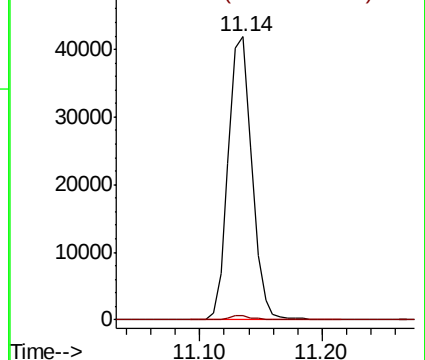
75 100

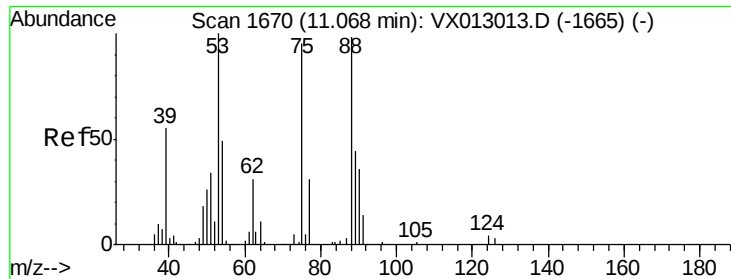
77 1.4 22.9 68.8#



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: 65.162 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013049.D

Acq: 14 Oct 2019 14:09

Instrument :

MSVOA_X

ClientSampleId :

S49-0549

Tot Ion: 75 Resp: 56251

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

