

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011020\
 Data File : VX014531.D
 Acq On : 10 Jan 2020 12:52
 Operator : JC/SP
 Sample : L1066-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0679

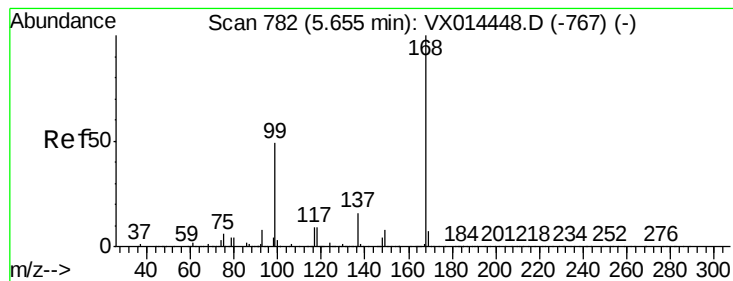
Quant Time: Jan 10 13:16:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	506543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	779035	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	701834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	318065	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	277124	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
35) Dibromofluoromethane	5.49	113	228781	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
50) Toluene-d8	8.71	98	917018	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.13	95	315702	46.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	60	0.262	ug/l #	41
5) Bromomethane	1.64	94	1229	0.258	ug/l #	56
6) Chloroethane	1.72	64	956	Below Cal	#	43
10) Methyl Iodide	2.51	142	1460	0.246	ug/l #	89
11) Tert butyl alcohol	2.99	59	551	0.467	ug/l #	71
13) Acrolein	2.29	56	251	0.265	ug/l #	1
16) Acetone	2.43	43	4704	Below Cal	#	84
25) 2-Butanone	4.65	43	904	0.214	ug/l #	17
31) Cyclohexane	5.65	56	8779	1.016	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	33736	4.605	ug/l #	51
38) Carbon Tetrachloride	5.65	117	43735	6.487	ug/l #	17
49) 1,4-Dioxane	7.72	88	376	2.882	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	153681	23.353	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	153681	61.741	ug/l #	12
88) 1,4-Dichlorobenzene	12.03	146	810	Below Cal		91
93) 1,2,4-Trichlorobenzene	13.64	180	668	Below Cal		93
96) 1,2,3-Trichlorobenzene	14.03	180	619	Below Cal	#	35

(#) = 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

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Instrument :

MSVOA_X

ClientSampleId :

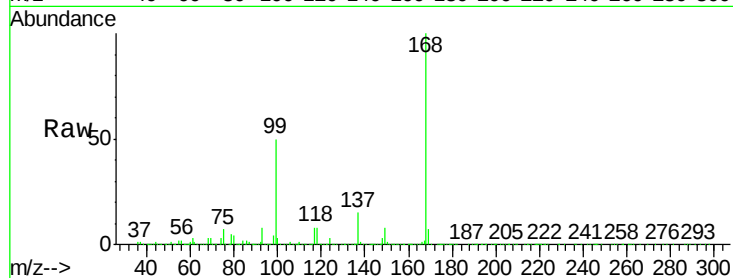
S32-0679

Tgt Ion:168 Resp: 506543

Ion Ratio Lower Upper

168 100

99 49.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

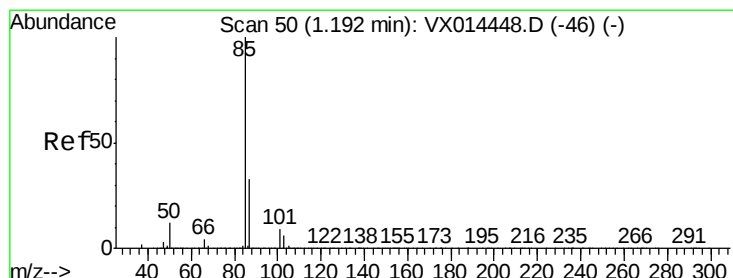
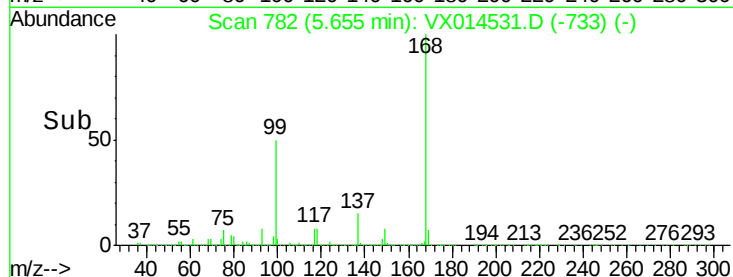
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.262 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014531.D

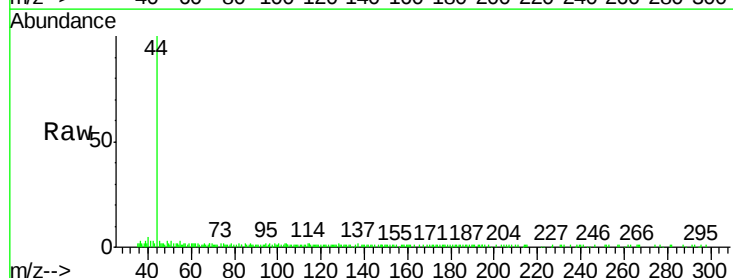
Acq: 10 Jan 2020 12:52

Tgt Ion: 85 Resp: 60

Ion Ratio Lower Upper

85 100

87 66.3 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

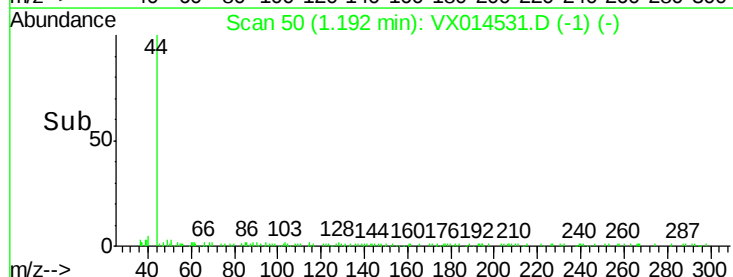
200

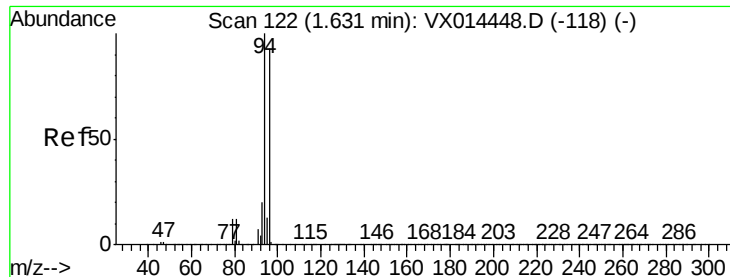
100

0

1.18 1.19 1.20

Time-->





#5

Bromomethane

Concen: 0.258 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampled :

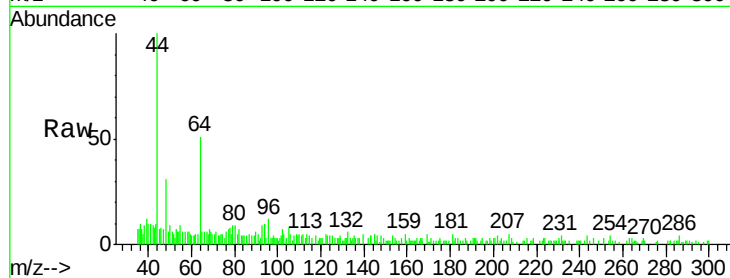
S32-0679

Tgt Ion: 94 Resp: 1229

Ion Ratio Lower Upper

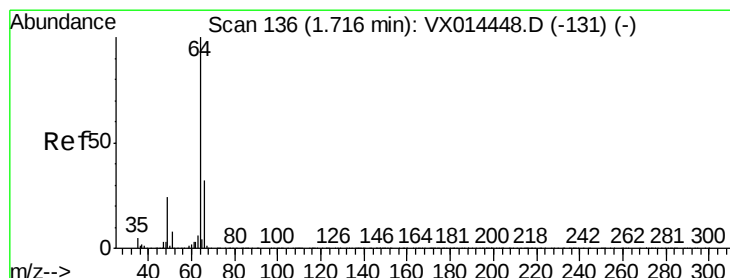
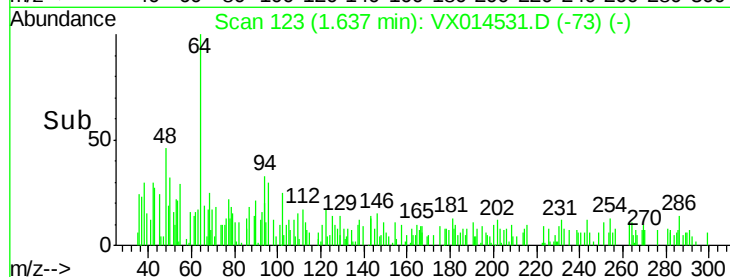
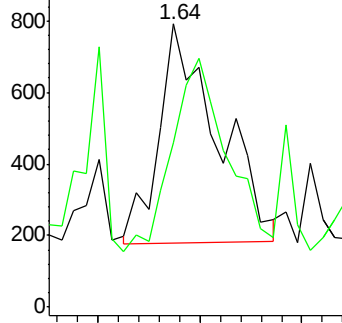
94 100

96 50.8 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014531.D

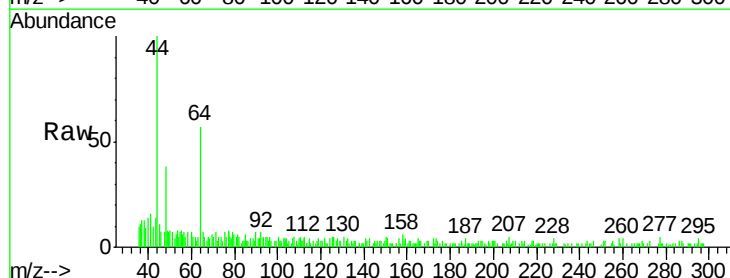
Acq: 10 Jan 2020 12:52

Tgt Ion: 64 Resp: 956

Ion Ratio Lower Upper

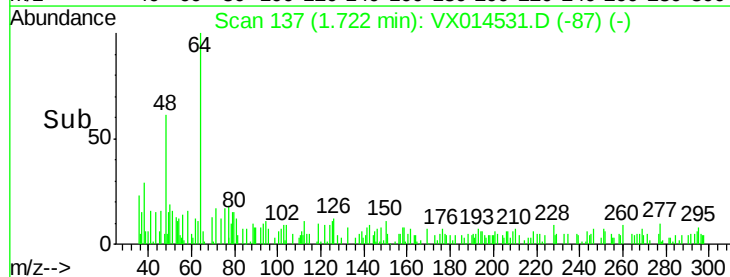
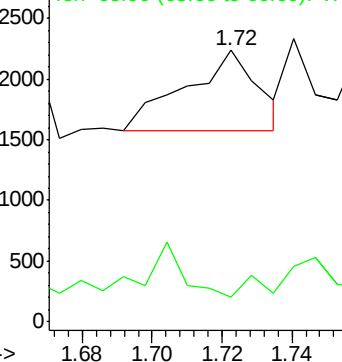
64 100

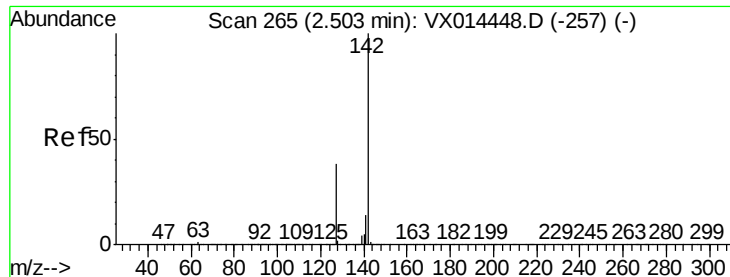
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 0.246 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0679

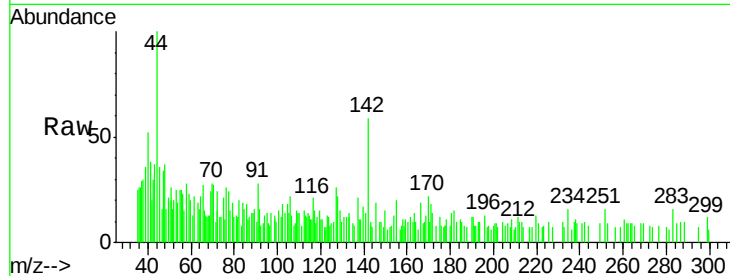
Tgt Ion: 142 Resp: 1460

Ion Ratio Lower Upper

142 100

127 36.2 31.2 46.8

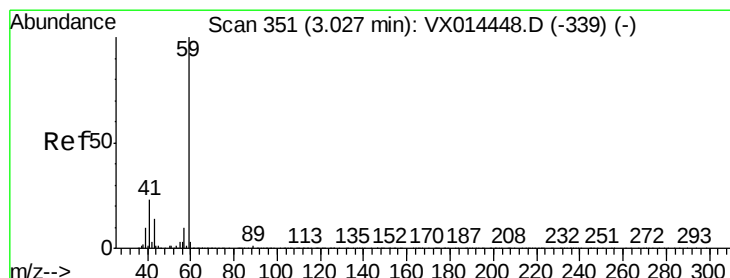
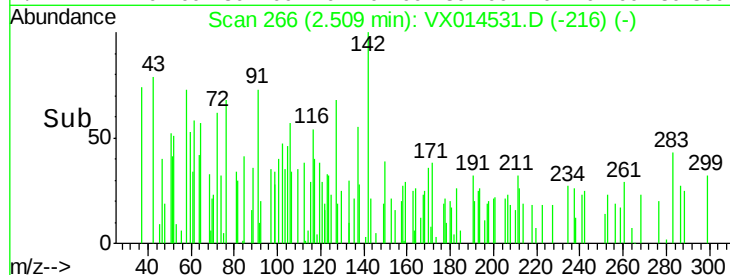
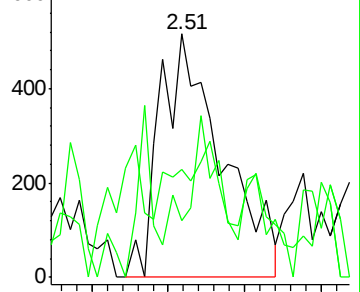
141 25.3 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.467 ug/l

RT: 2.99 min Scan# 345

Delta R.T. -0.04 min

Lab File: VX014531.D

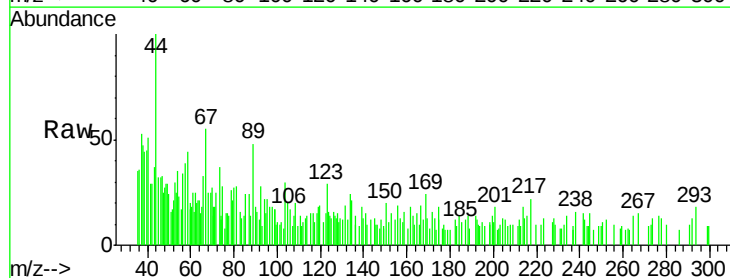
Acq: 10 Jan 2020 12:52

Tgt Ion: 59 Resp: 551

Ion Ratio Lower Upper

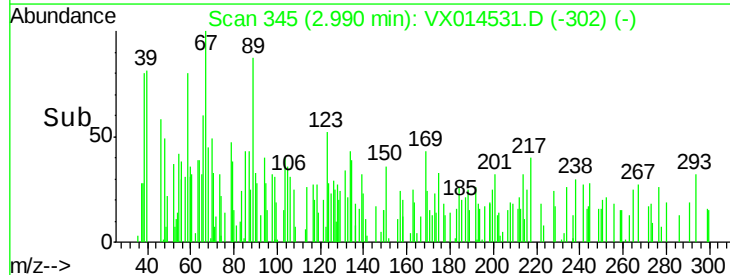
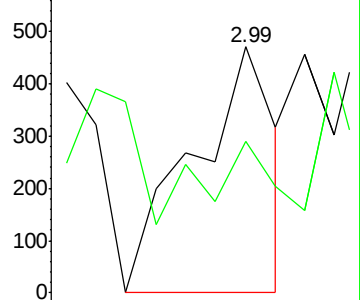
59 100

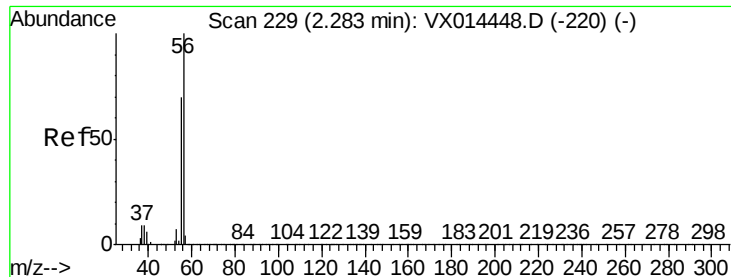
57 21.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.265 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampled :

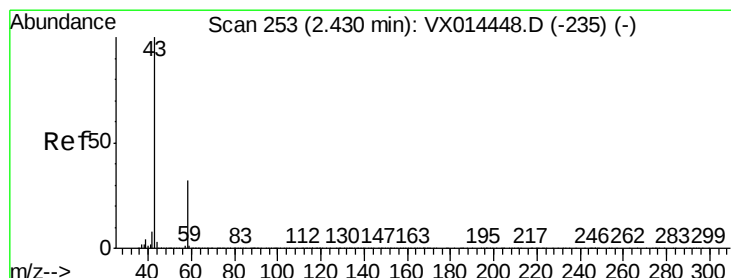
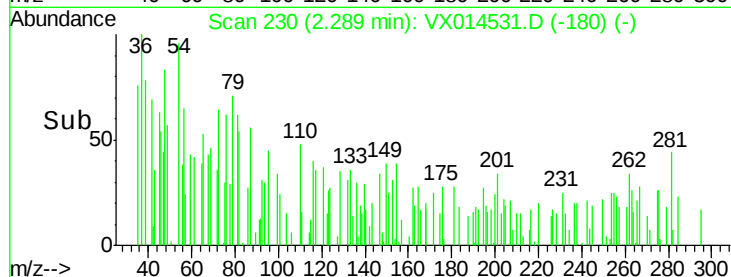
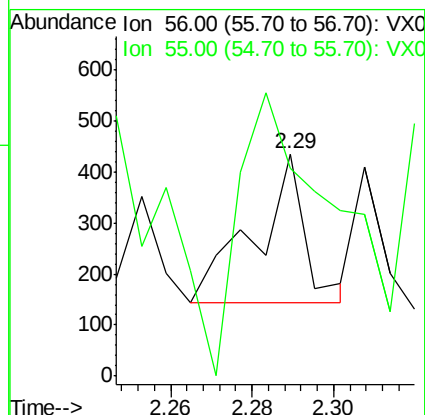
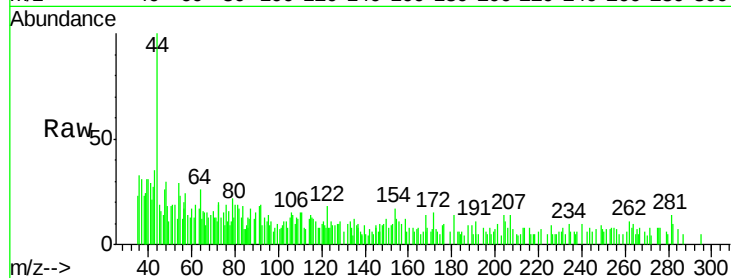
S32-0679

Tgt Ion: 56 Resp: 251

Ion Ratio Lower Upper

56 100

55 362.5 55.0 82.6#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014531.D

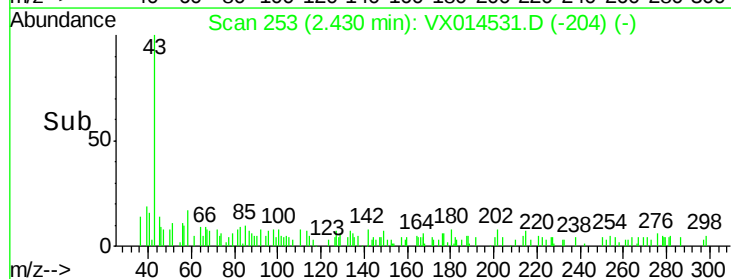
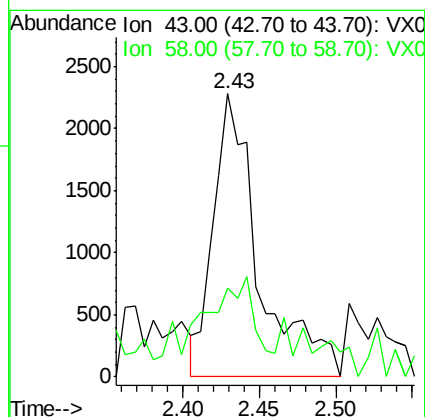
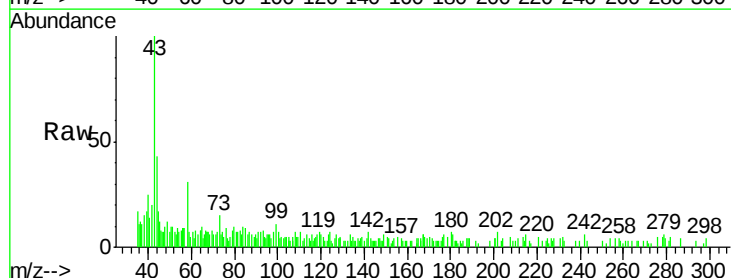
Acq: 10 Jan 2020 12:52

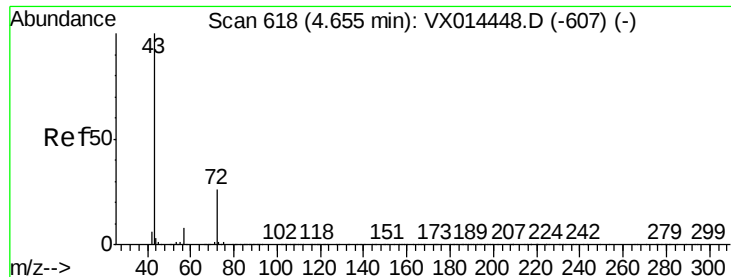
Tgt Ion: 43 Resp: 4704

Ion Ratio Lower Upper

43 100

58 22.7 25.4 38.0#

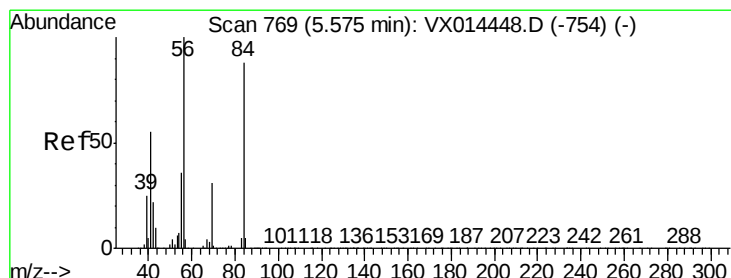
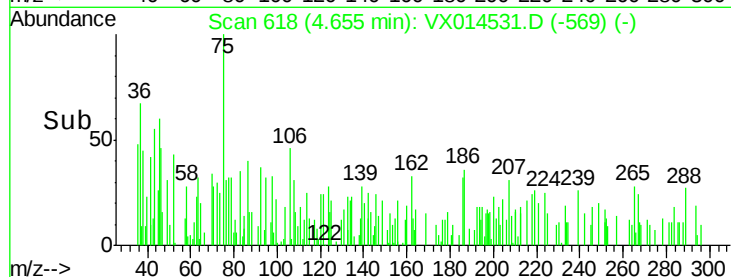
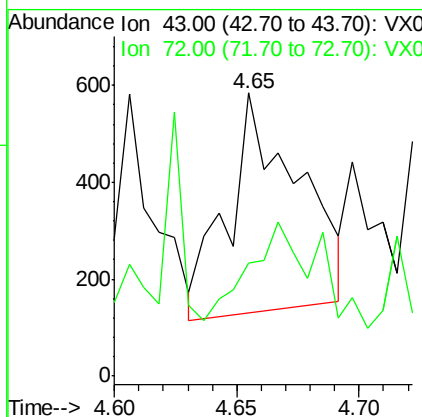
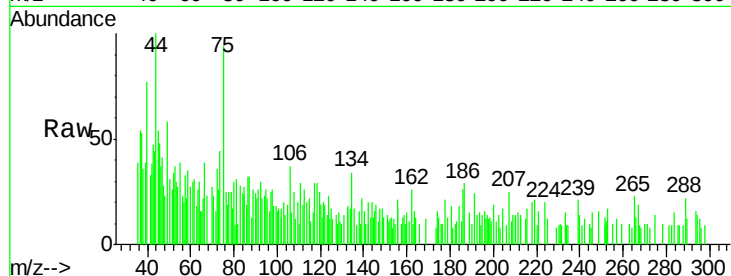




#25
2-Butanone
Concen: 0.214 ug/l
RT: 4.65 min Scan# 618
Delta R.T. 0.00 min
Lab File: VX014531.D
Acq: 10 Jan 2020 12:52

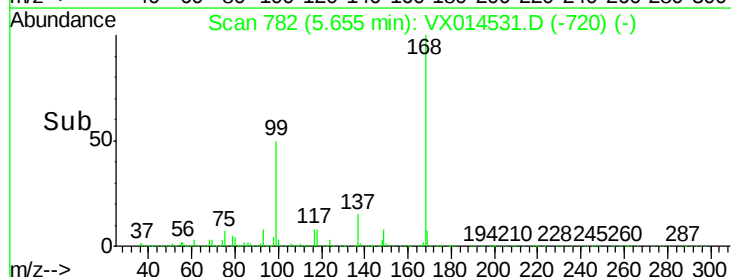
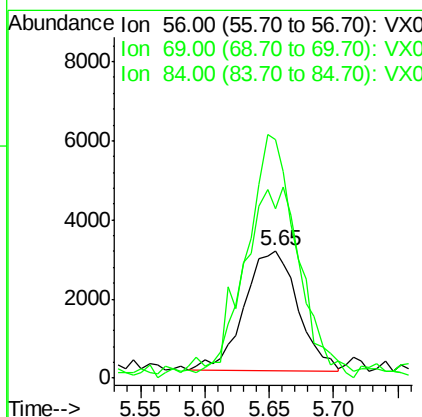
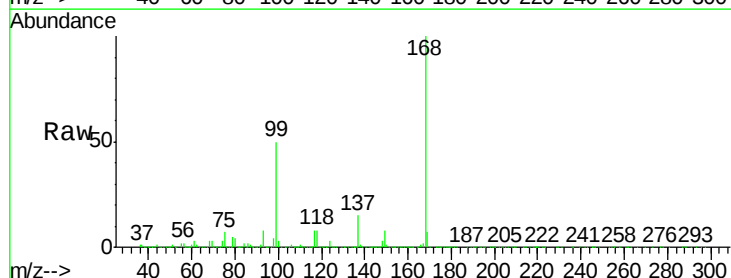
Instrument :
MSVOA_X
ClientSampled :
S32-0679

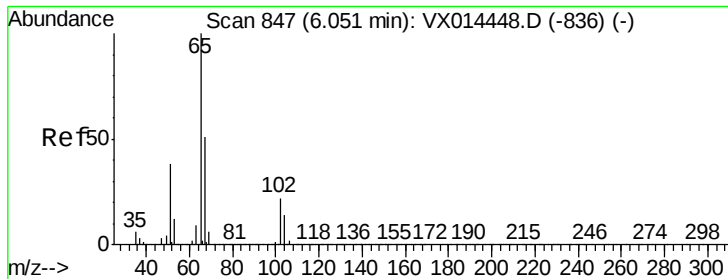
Tgt Ion: 43 Resp: 904
Ion Ratio Lower Upper
43 100
72 68.1 20.6 31.0#



#31
Cyclohexane
Concen: 1.016 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.08 min
Lab File: VX014531.D
Acq: 10 Jan 2020 12:52

Tgt Ion: 56 Resp: 8779
Ion Ratio Lower Upper
56 100
69 191.9 24.4 36.6#
84 132.1 70.6 106.0#





#33

1,2-Dichloroethane-d4

Concen: 49.007 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampleId :

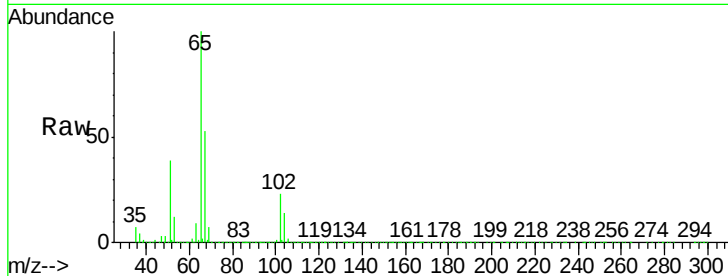
S32-0679

Tgt Ion: 65 Resp: 277124

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

120000

100000

80000

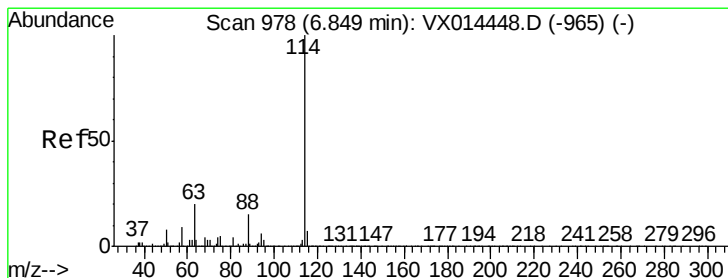
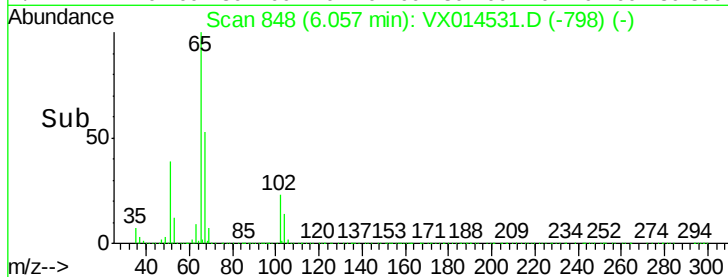
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

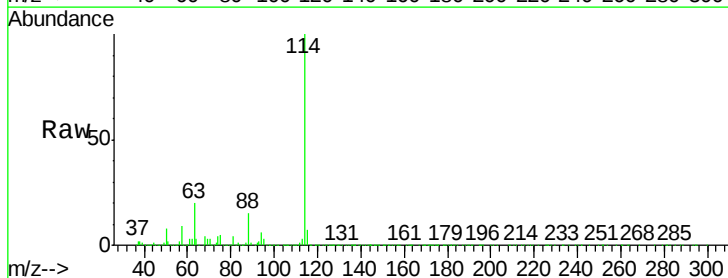
Tgt Ion: 114 Resp: 779035

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

88 14.8 0.0 30.8



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

6.85

400000

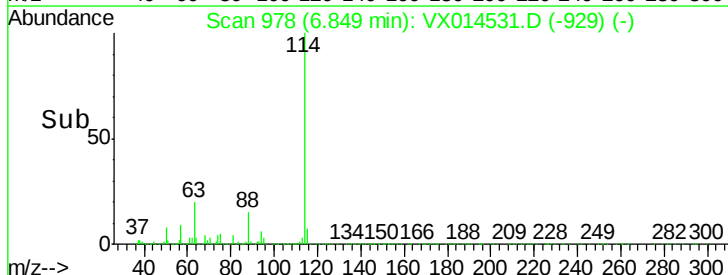
300000

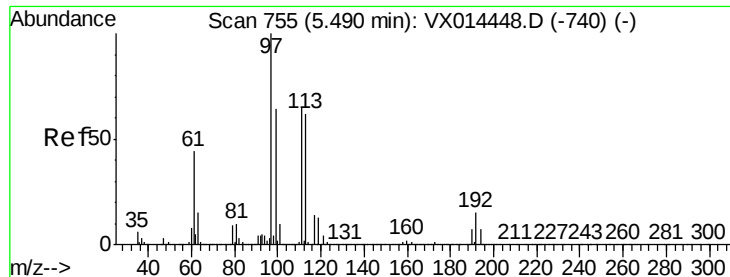
200000

100000

0

Time--> 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.513 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampled :

S32-0679

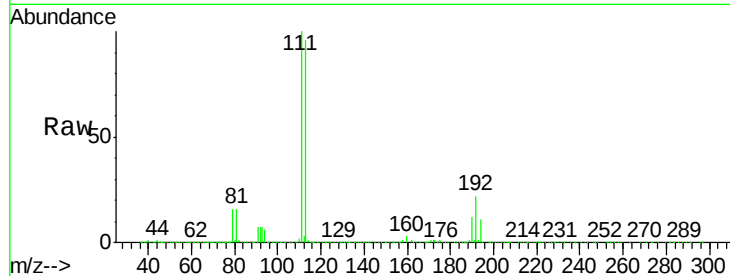
Tgt Ion:113 Resp: 228781

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

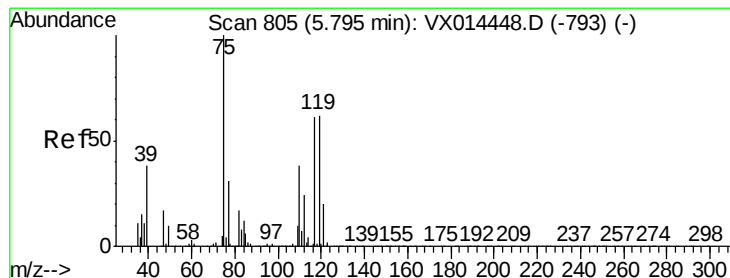
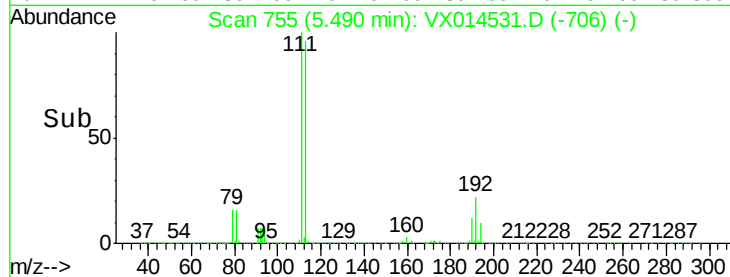
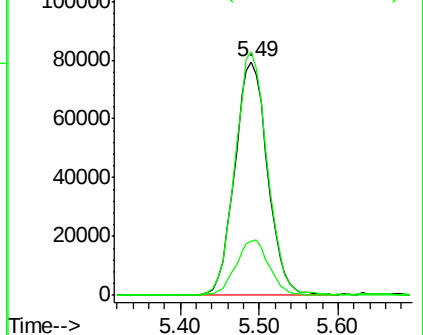
192 23.7 19.2 28.8



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: 4.605 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

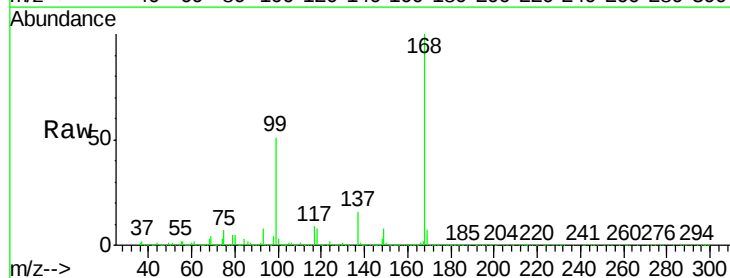
Tgt Ion: 75 Resp: 33736

Ion Ratio Lower Upper

75 100

110 10.5 18.6 55.8#

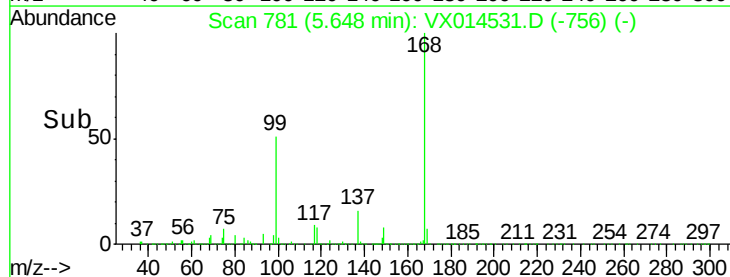
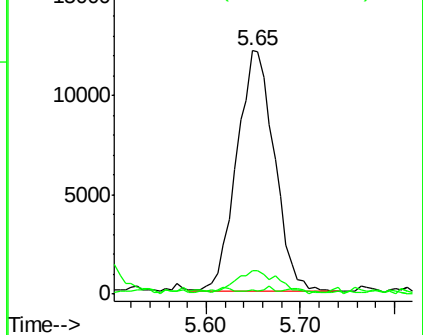
77 0.9 24.5 36.7#

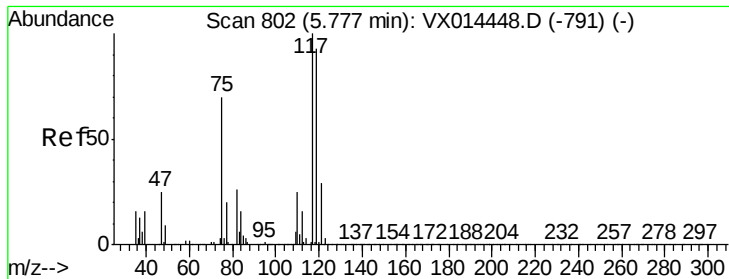


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.487 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

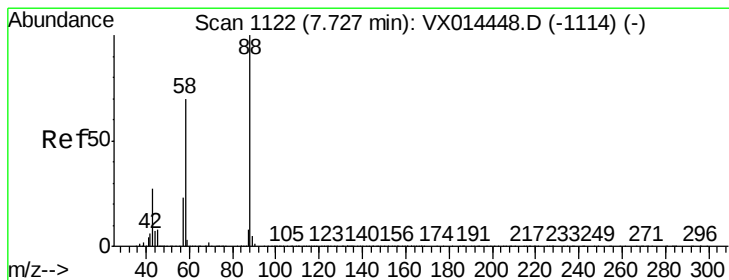
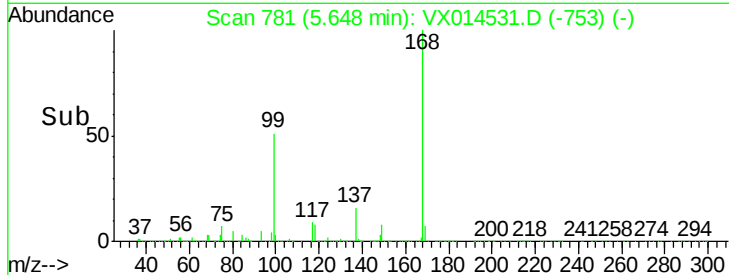
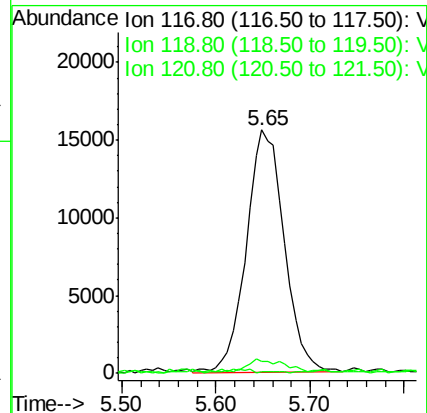
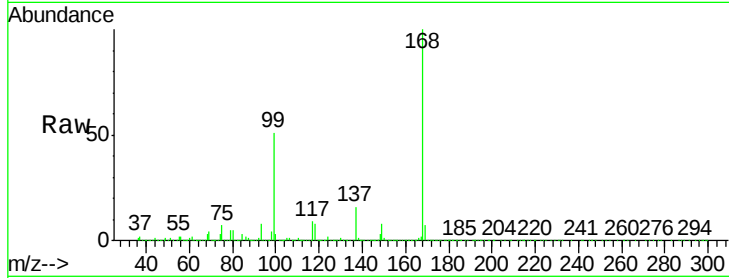
Instrument :

MSVOA_X

ClientSampleId :

S32-0679

Tgt Ion:	117	Resp:	43735
Ion	Ratio	Lower	Upper
117	100		
119	4.0	73.8	110.8#
121	0.5	23.4	35.0#



#49

1,4-Dioxane

Concen: 2.882 ug/l

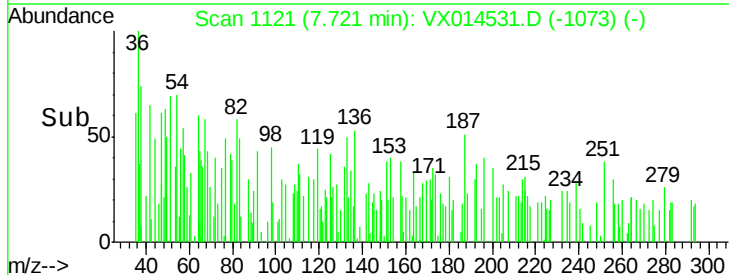
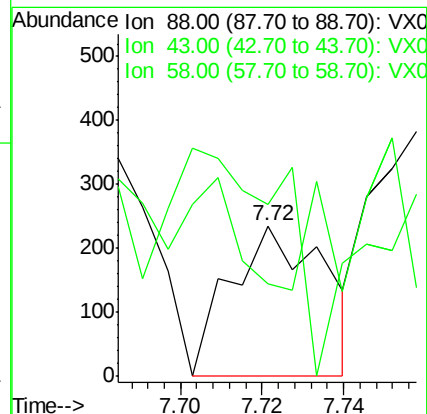
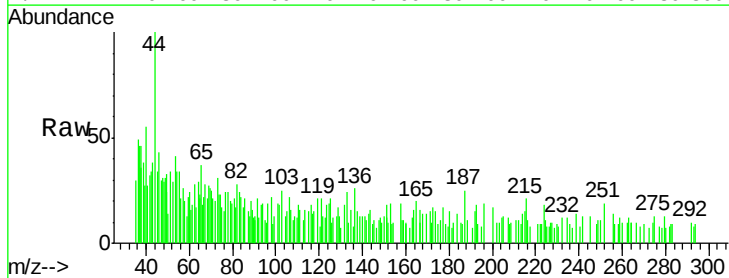
RT: 7.72 min Scan# 1121

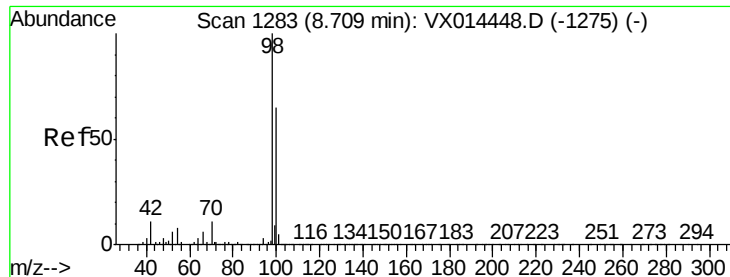
Delta R.T. -0.01 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Tgt Ion:	88	Resp:	376
Ion	Ratio	Lower	Upper
88	100		
43	179.5	27.4	41.0#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 50.109 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampleId :

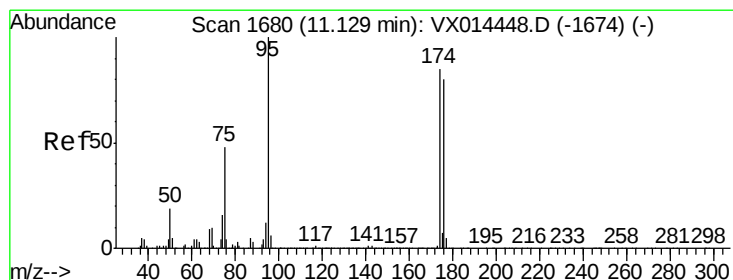
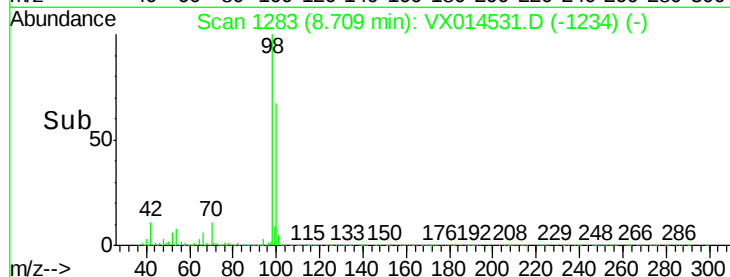
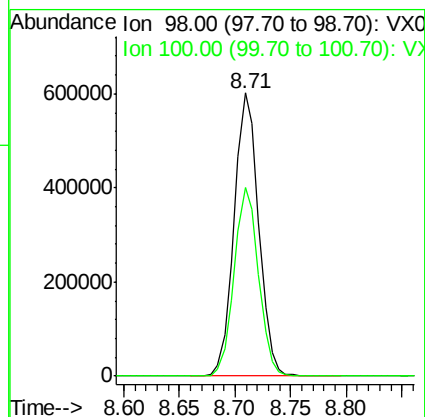
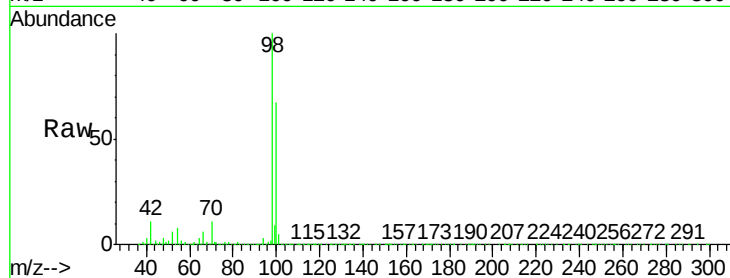
S32-0679

Tgt Ion: 98 Resp: 917018

Ion Ratio Lower Upper

98 100

100 66.2 53.2 79.8



#62

4-Bromofluorobenzene

Concen: 46.991 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

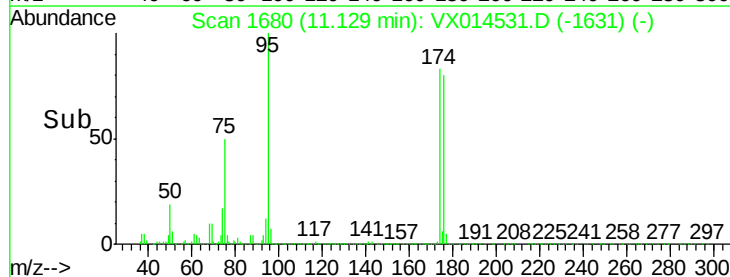
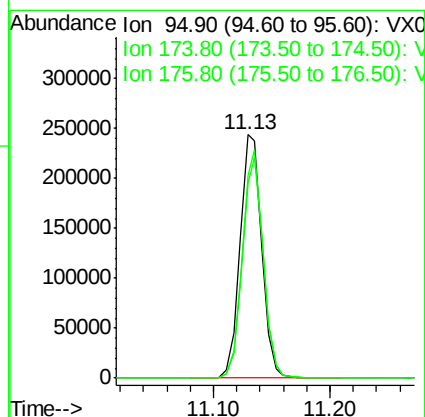
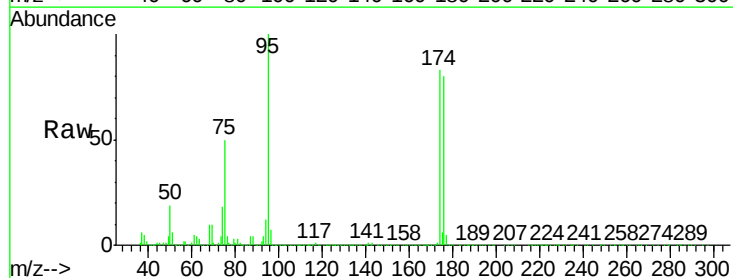
Tgt Ion: 95 Resp: 315702

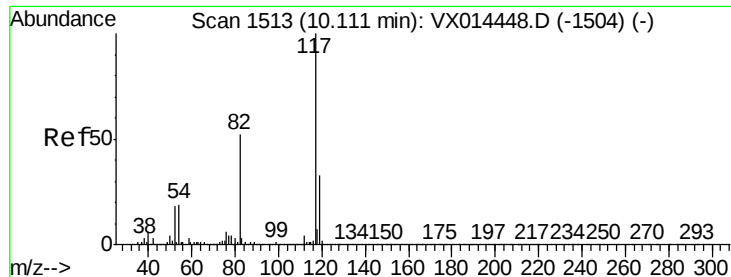
Ion Ratio Lower Upper

95 100

174 90.4 0.0 180.8

176 87.3 0.0 172.8

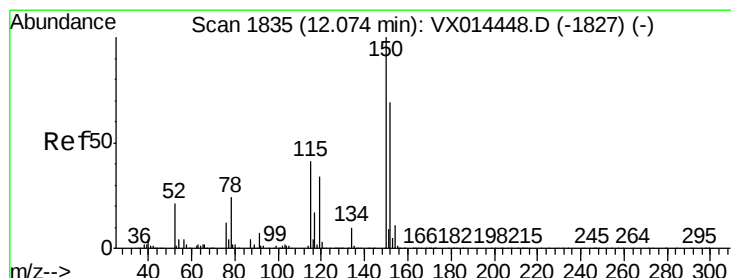
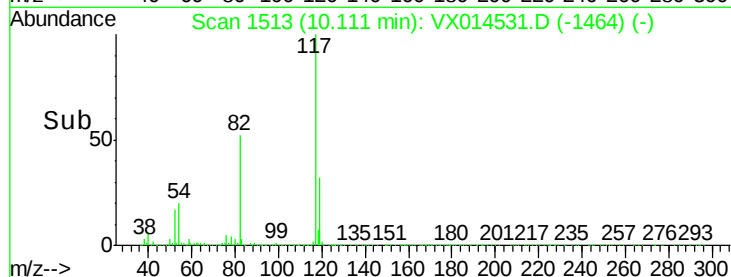
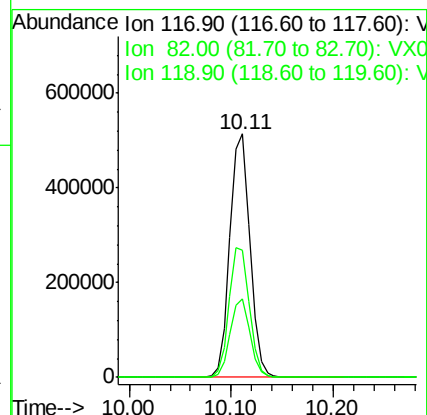
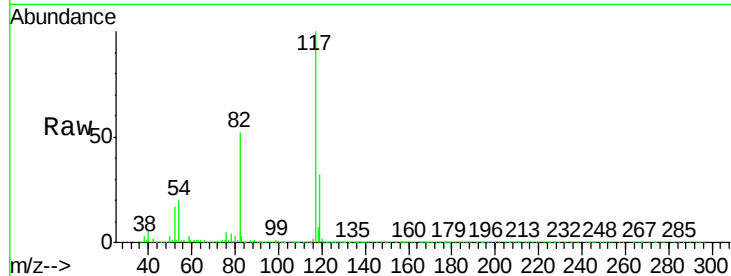




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014531.D
Acq: 10 Jan 2020 12:52

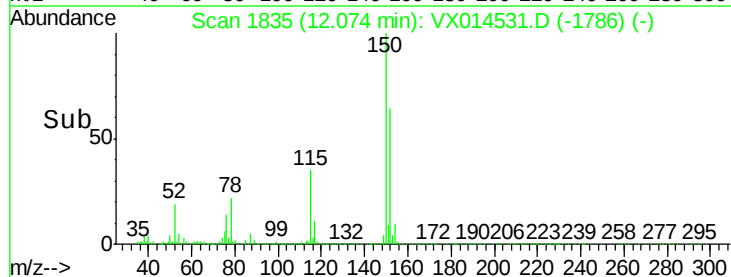
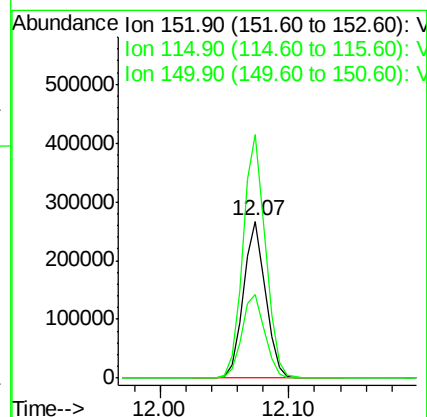
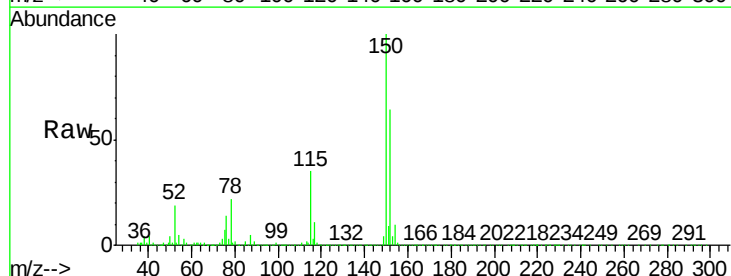
Instrument :
MSVOA_X
ClientSampleId :
S32-0679

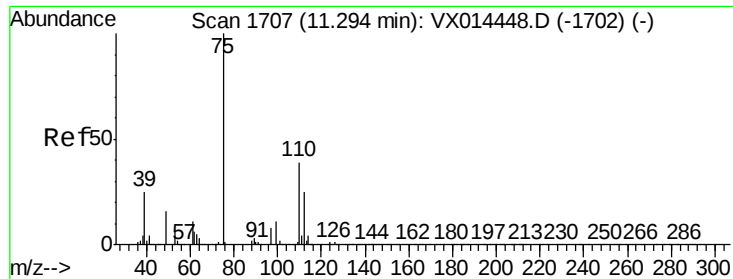
Tgt Ion:117 Resp: 701834
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.6
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014531.D
Acq: 10 Jan 2020 12:52

Tgt Ion:152 Resp: 318065
Ion Ratio Lower Upper
152 100
115 55.4 39.5 118.3
150 157.1 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 23.353 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampled :

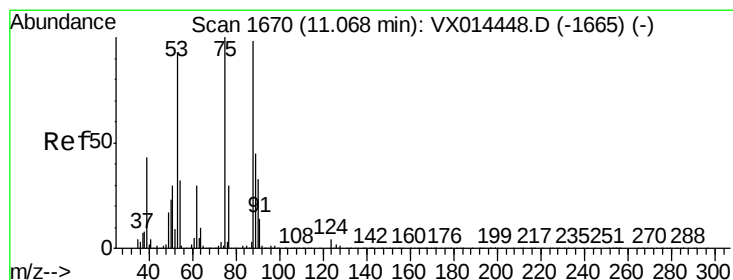
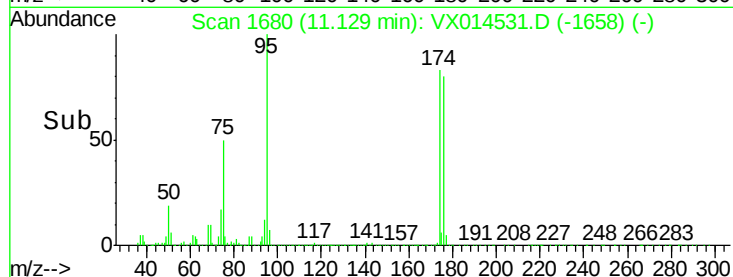
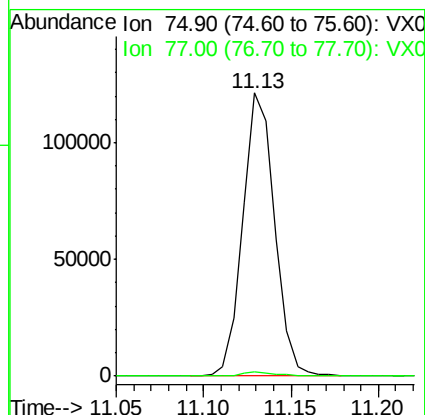
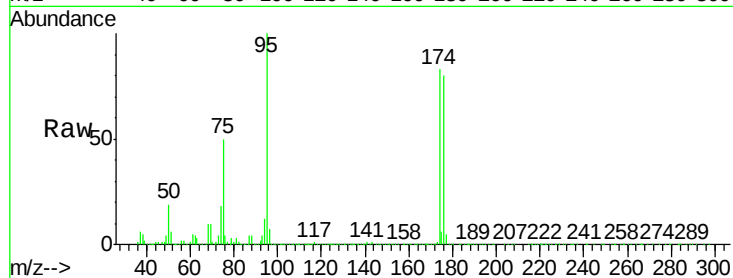
S32-0679

Tgt Ion: 75 Resp: 153681

Ion Ratio Lower Upper

75 100

77 1.7 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.741 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

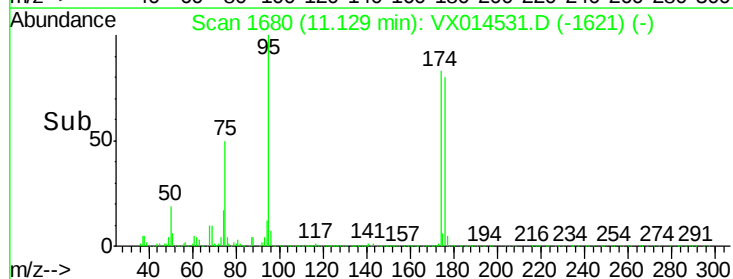
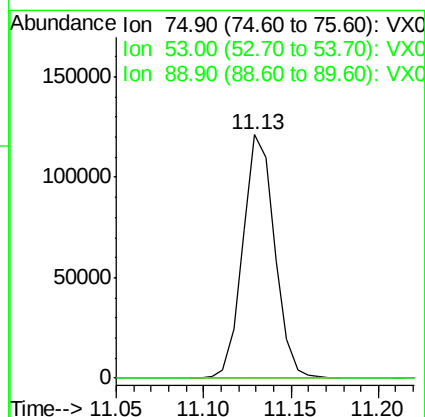
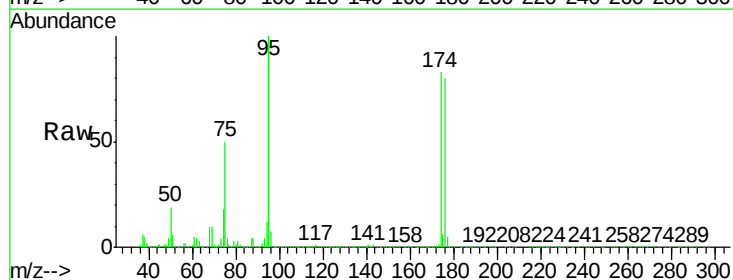
Tgt Ion: 75 Resp: 153681

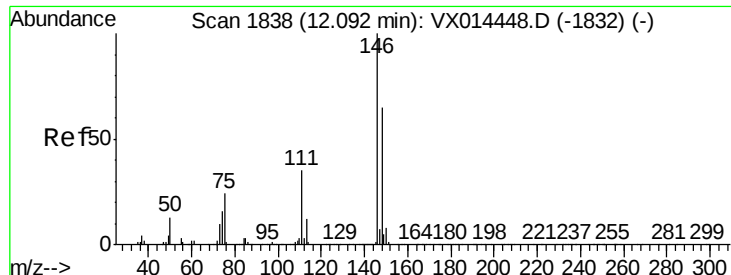
Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.1 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.03 min Scan# 1827

Delta R.T. -0.07 min

Lab File: VX014531.D

Acq: 10 Jan 2020 12:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0679

Tgt Ion:146 Resp: 810

Ion Ratio Lower Upper

146 100

111 26.8 18.1 54.1

148 68.1 32.1 96.3

