

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005340.D
 Acq On : 15 Oct 2018 13:41
 Operator : JC/MD
 Sample : J5472-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:35:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	269118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	380254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	346258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167227	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	157496	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
35) Dibromofluoromethane	5.50	113	125756	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	8.71	98	457726	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
62) 4-Bromofluorobenzene	11.14	95	150041	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	

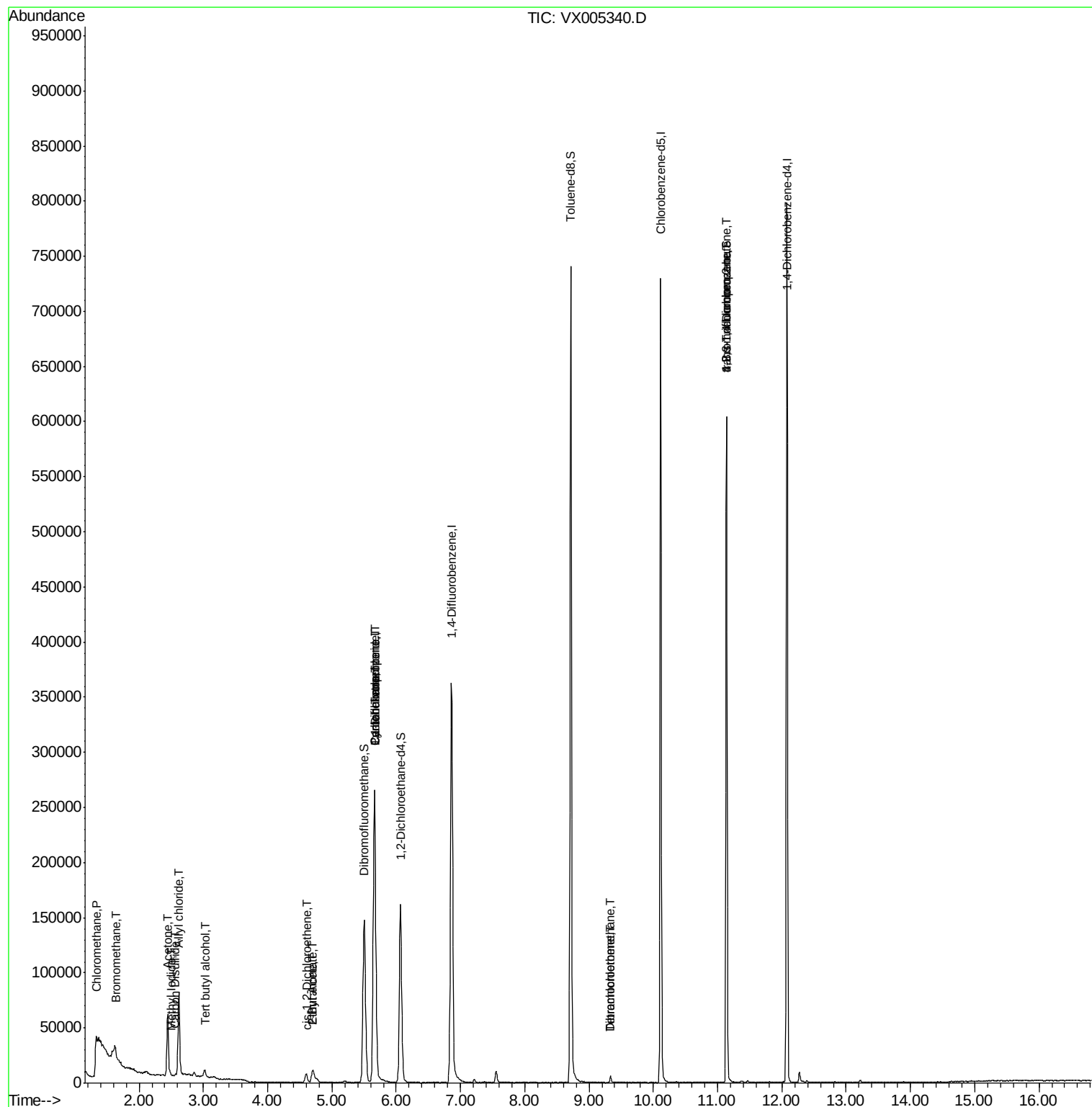
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1318	0.432	ug/l #	76
5) Bromomethane	1.64	94	474	0.853	ug/l #	79
10) Methyl Iodide	2.51	142	386	2.629	ug/l #	92
11) Tert butyl alcohol	3.03	59	4327	5.136	ug/l #	74
13) Acrolein	2.29	56	114	Below Cal		96
14) Allyl chloride	2.62	41	7767	1.501	ug/l #	72
16) Acetone	2.45	43	61109	35.386	ug/l	97
17) Carbon Disulfide	2.57	76	3246	0.455	ug/l #	91
20) Methylene Chloride	2.85	84	1247	Below Cal	#	89
25) 2-Butanone	4.70	43	21372	8.458	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	4443	1.565	ug/l	91
31) Cyclohexane	5.66	56	4639	1.130	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	18215	4.946	ug/l #	51
37) Ethyl Acetate	4.70	43	21372	4.513	ug/l #	68
38) Carbon Tetrachloride	5.67	117	24082	6.508	ug/l #	16
44) Trichloroethene	7.21	130	1089	Below Cal		96
60) Dibromochloromethane	9.34	129	992	0.375	ug/l #	11
64) Tetrachloroethene	9.34	164	1204	0.432	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	73582	22.684	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73582	68.926	ug/l #	10

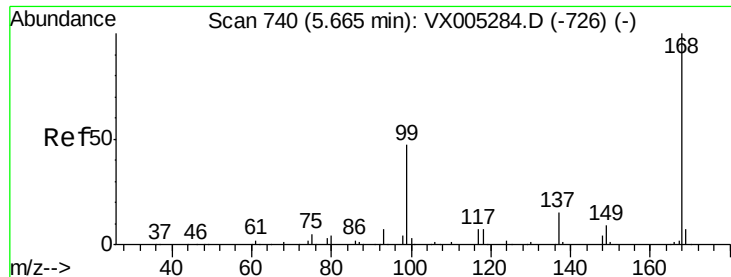
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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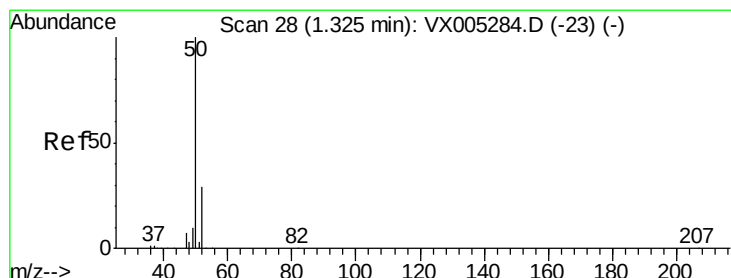
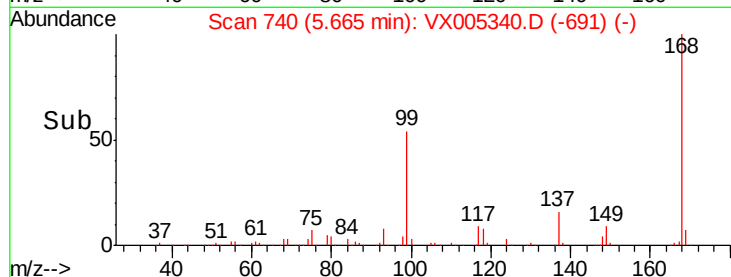
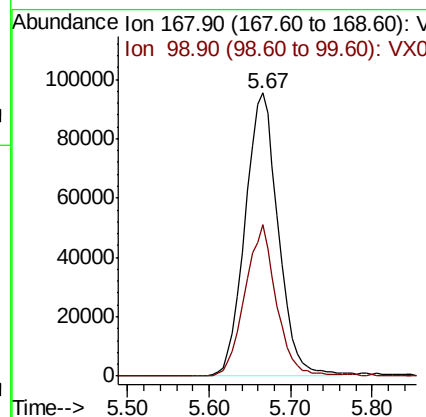
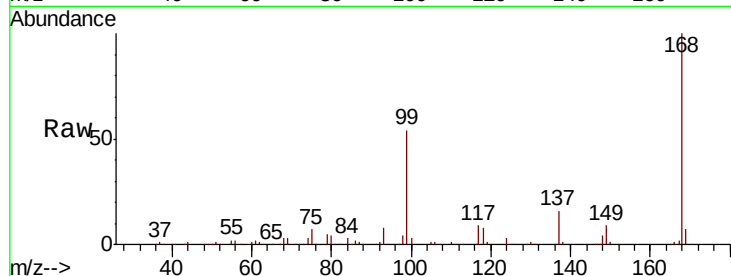




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

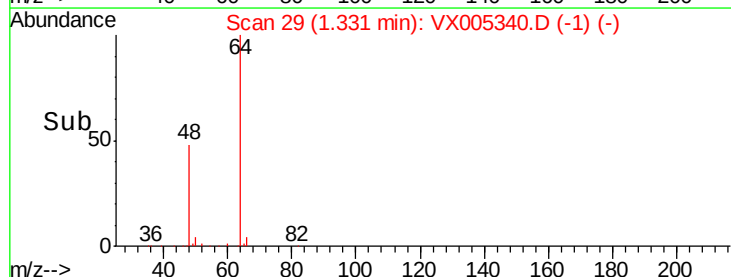
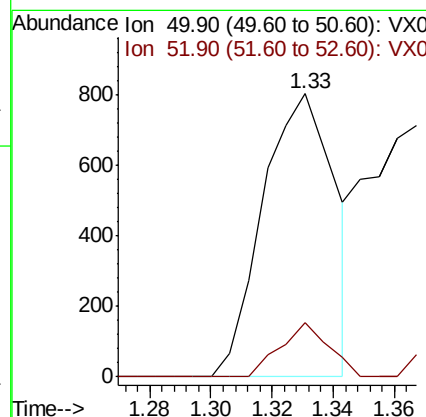
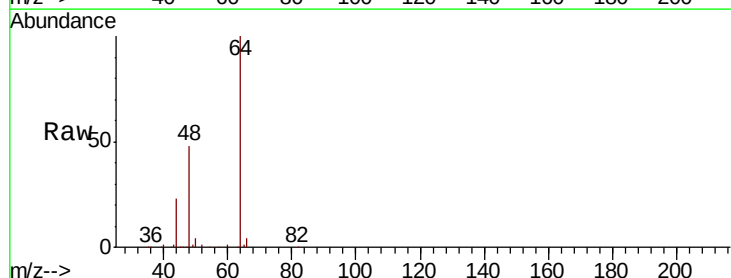
Instrument :
MSVOA_X
ClientSampleId :

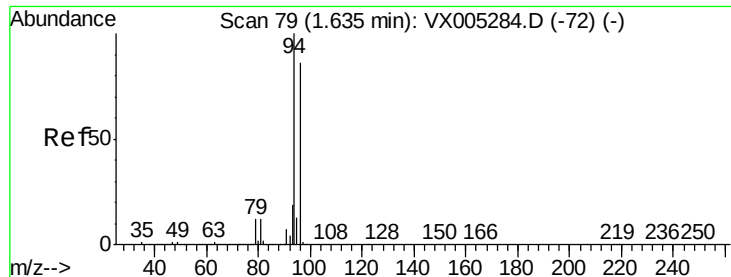
Tot Ion:168 Resp: 269118
Ion Ratio Lower Upper
168 100
99 53.5 39.9 59.9



#3
Chloromethane
Concen: 0.432 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.01 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Tgt Ion: 50 Resp: 1318
Ion Ratio Lower Upper
50 100
52 19.3 26.2 39.2#





#5

Bromomethane

Concen: 0.853 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :

MSVOA_X

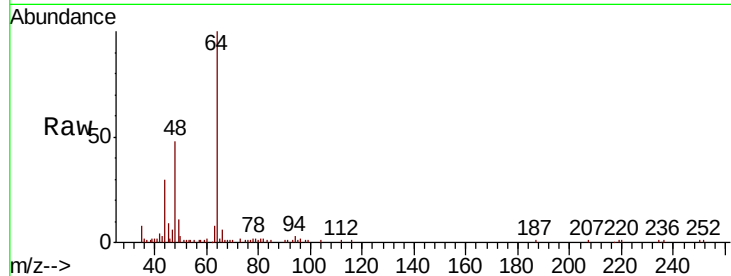
ClientSampled :

Tot Ion: 94 Resp: 474

Ion Ratio Lower Upper

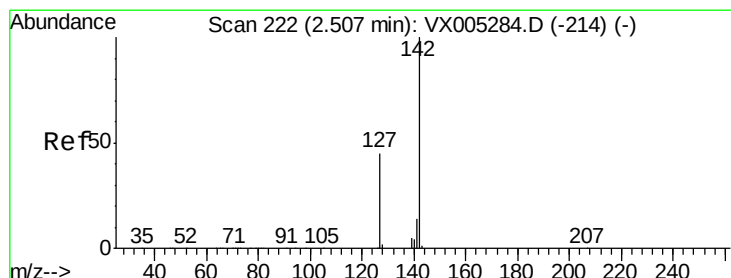
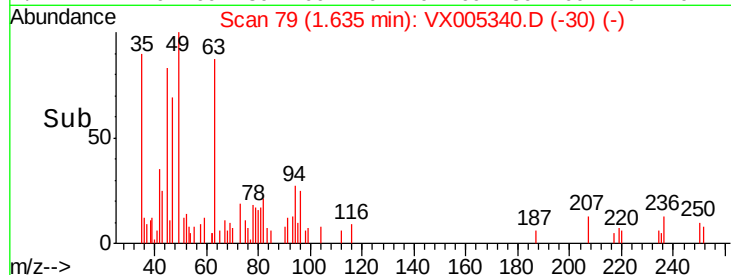
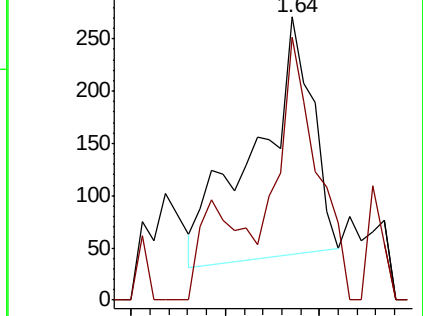
94 100

96 113.6 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 2.629 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

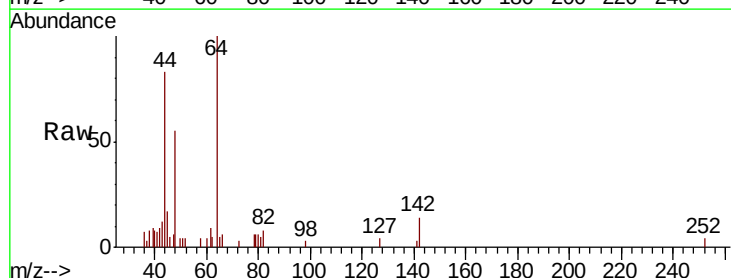
Tgt Ion: 142 Resp: 386

Ion Ratio Lower Upper

142 100

127 39.9 33.8 50.6

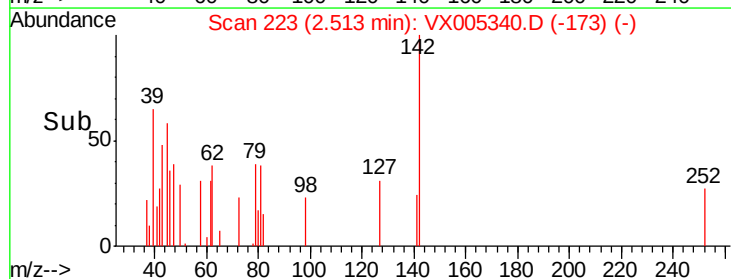
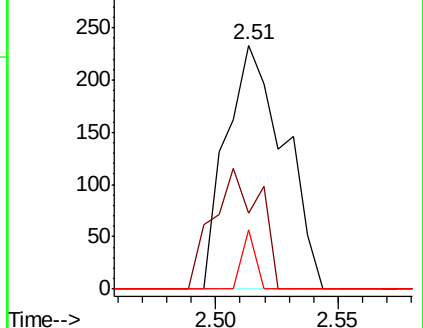
141 5.4 11.4 17.0#

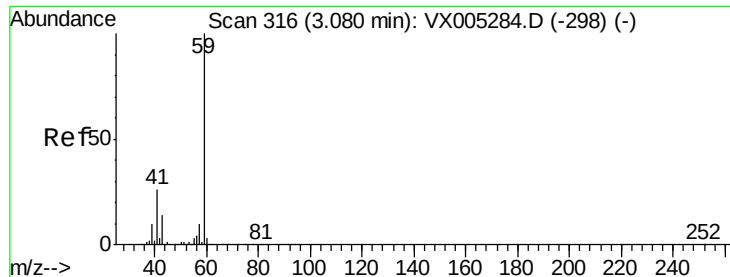


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



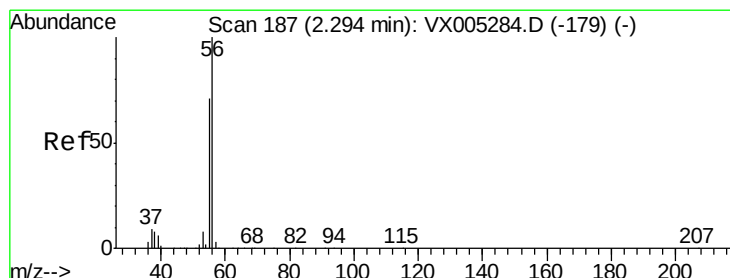
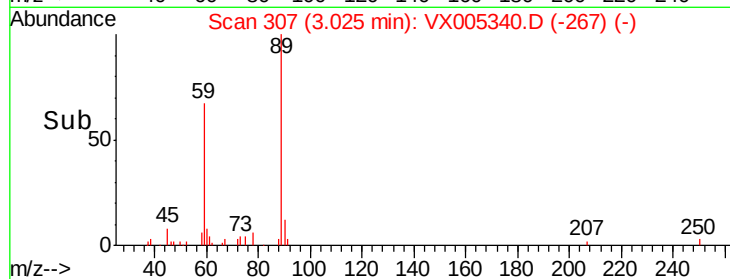
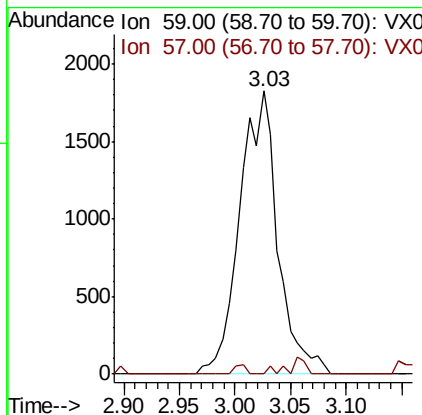
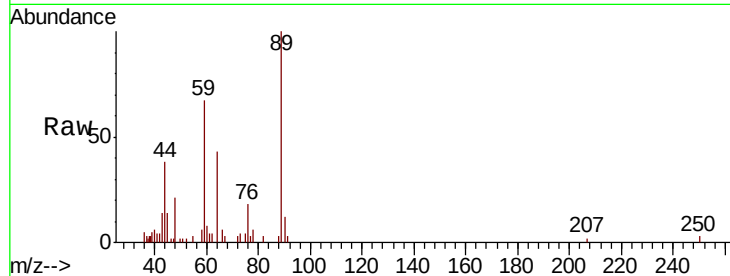


#11

Tert butyl alcohol
 Concen: 5.136 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX005340.D
 Acq: 15 Oct 2018 13:41

Instrument :
 MSVOA_X
 ClientSampleId :

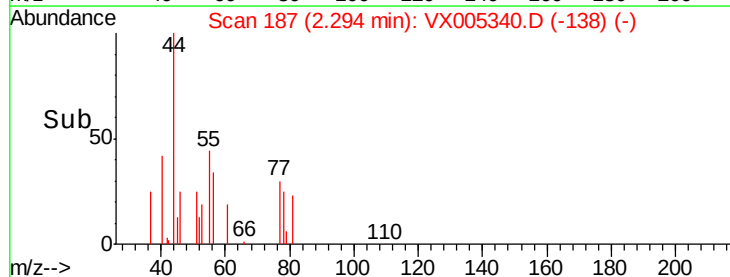
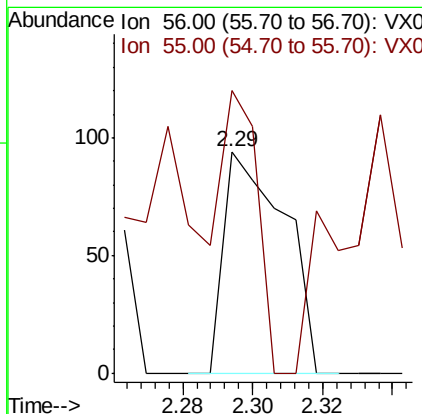
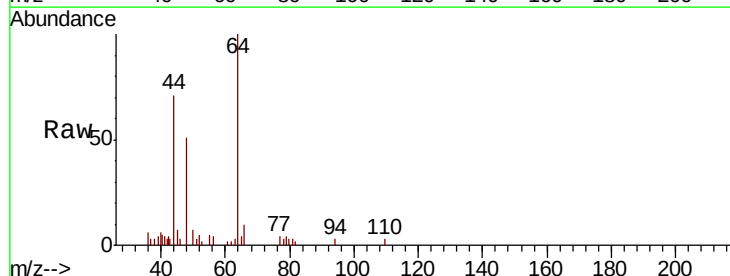
Tot Ion: 59 Resp: 4327
 Ion Ratio Lower Upper
 59 100
 57 0.5 8.2 12.4#

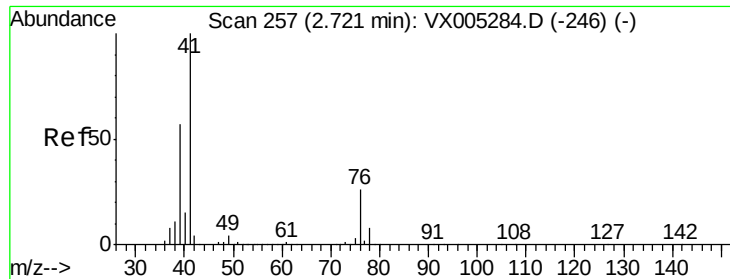


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX005340.D
 Acq: 15 Oct 2018 13:41

Tgt Ion: 56 Resp: 114
 Ion Ratio Lower Upper
 56 100
 55 71.9 54.7 82.1

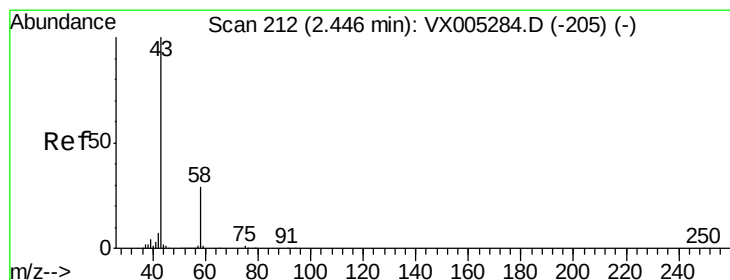
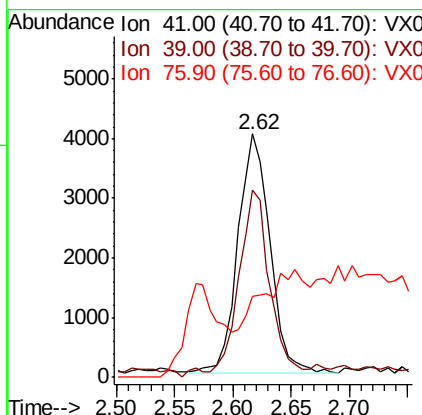
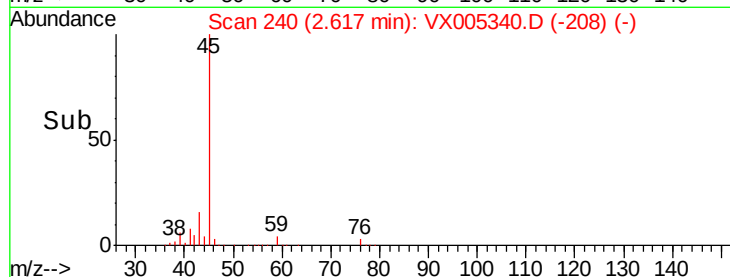
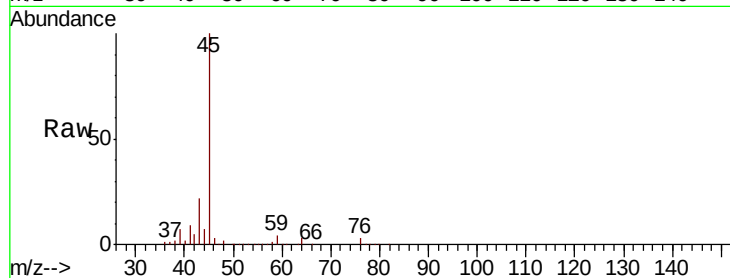




#14
Allvl chloride
Concen: 1.501 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.10 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

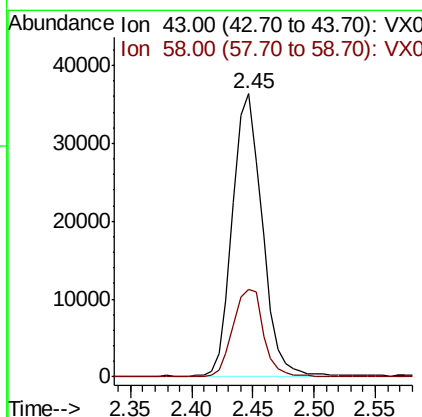
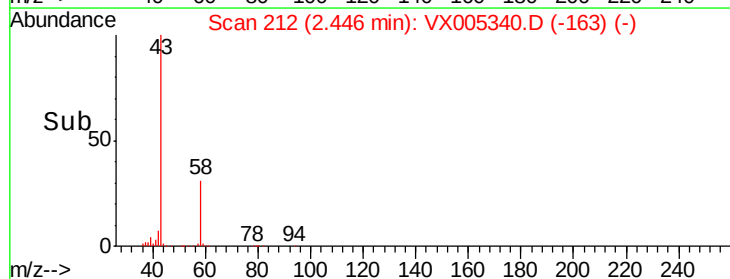
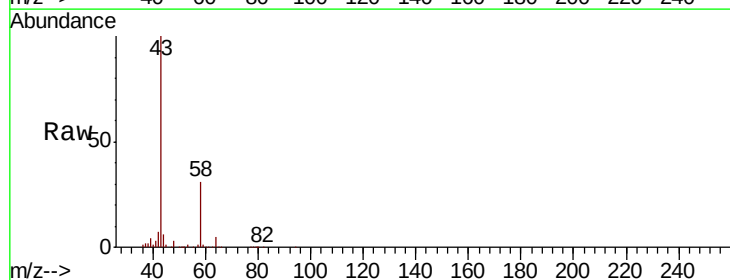
Instrument :
MSVOA_X
ClientSampleId :

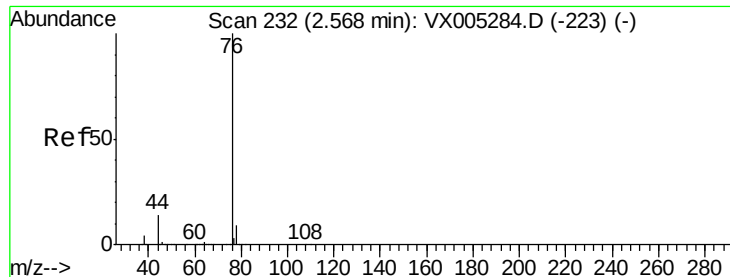
Tot Ion: 41 Resp: 7767
Ion Ratio Lower Upper
41 100
39 69.5 48.9 73.3
76 0.0 26.7 40.1#



#16
Acetone
Concen: 35.386 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Tgt Ion: 43 Resp: 61109
Ion Ratio Lower Upper
43 100
58 31.2 26.2 39.4





#17

Carbon Disulfide

Concen: 0.455 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :

MSVOA_X

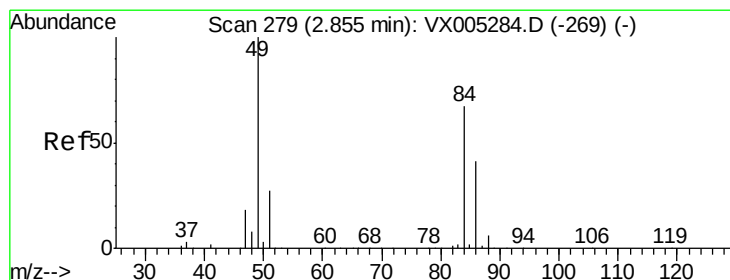
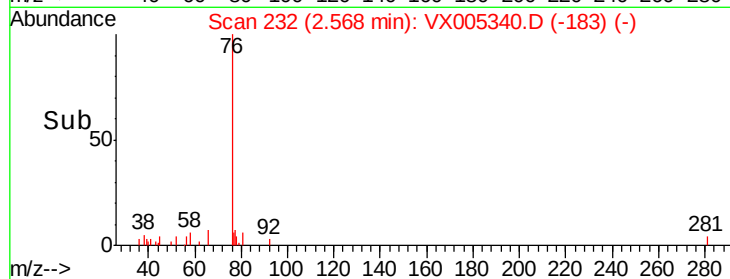
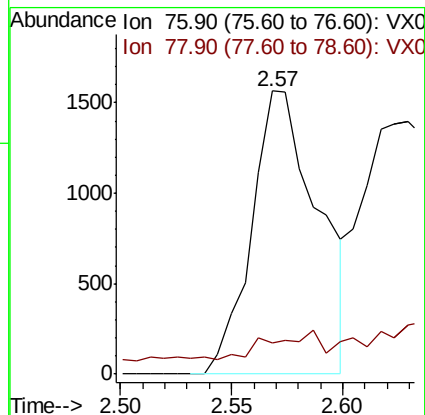
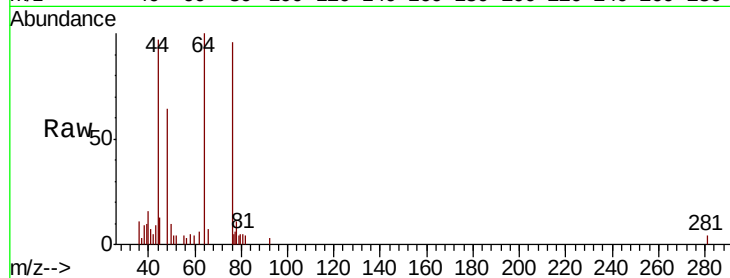
ClientSampleId :

Tot Ion: 76 Resp: 3246

Ion Ratio Lower Upper

76 100

78 5.5 7.0 10.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Tgt Ion: 84 Resp: 1247

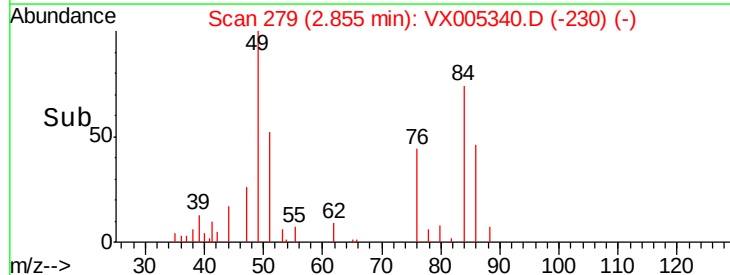
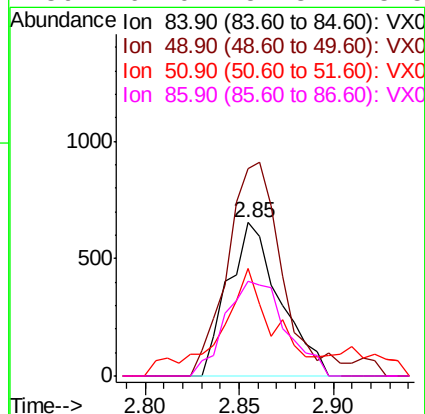
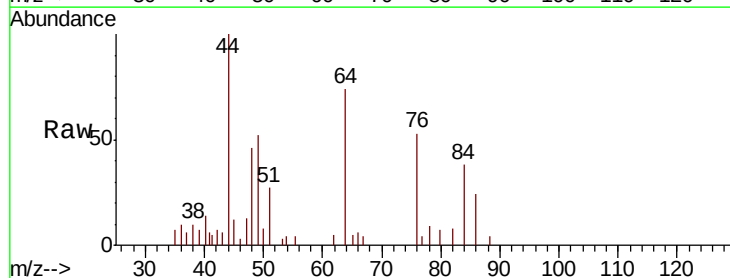
Ion Ratio Lower Upper

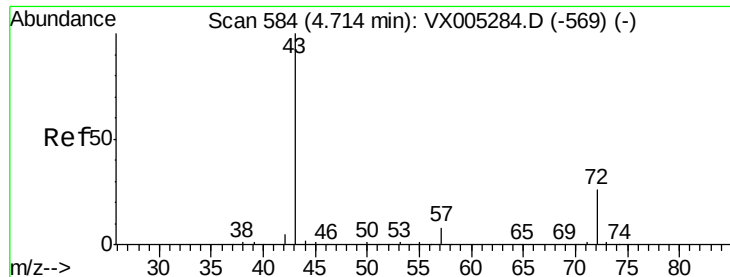
84 100

49 135.1 101.2 151.8

51 55.8 29.5 44.3#

86 62.0 52.3 78.5





#25

2-Butanone

Concen: 8.458 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

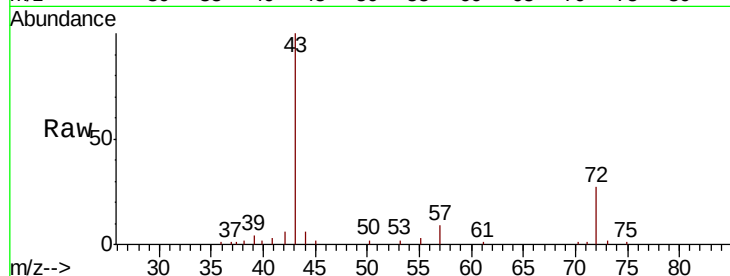
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 21372

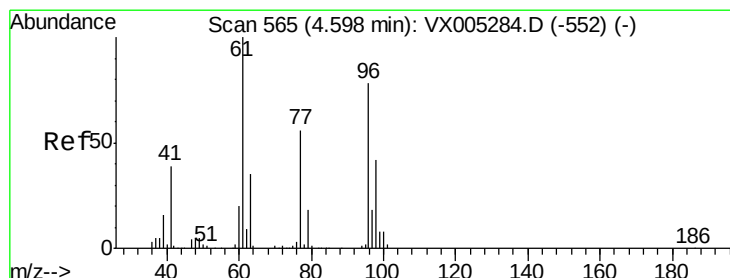
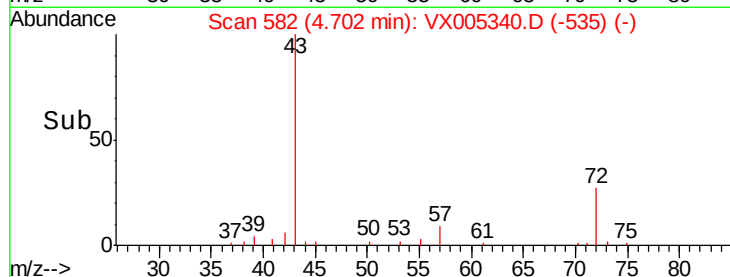
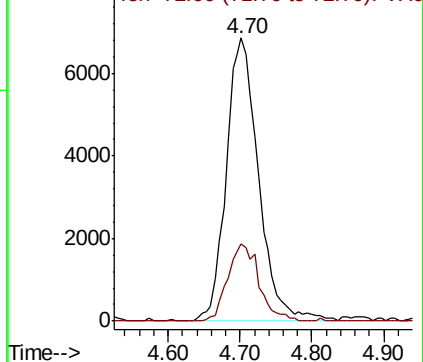
Ion Ratio Lower Upper

43 100

72 27.2 22.0 33.0



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



#27

cis-1,2-Dichloroethene

Concen: 1.565 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

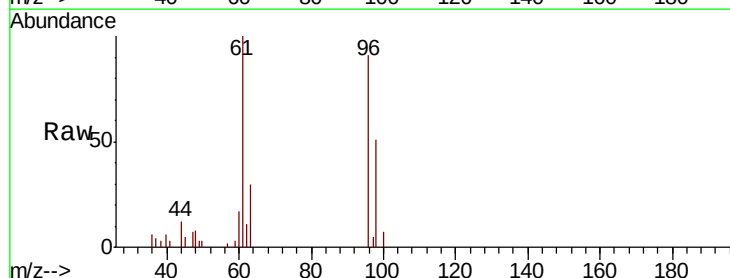
Tgt Ion: 96 Resp: 4443

Ion Ratio Lower Upper

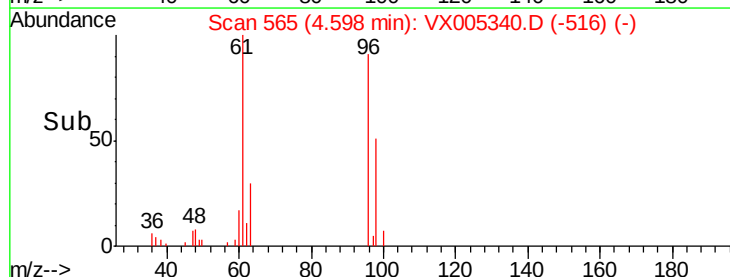
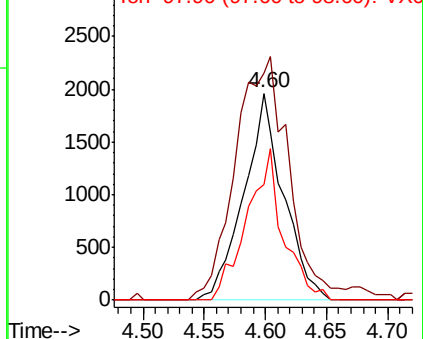
96 100

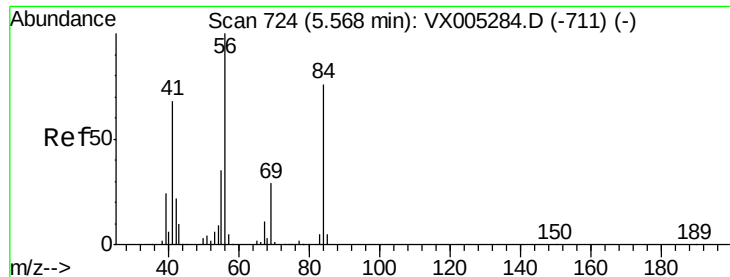
61 157.1 0.0 282.6

98 66.8 0.0 130.2



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

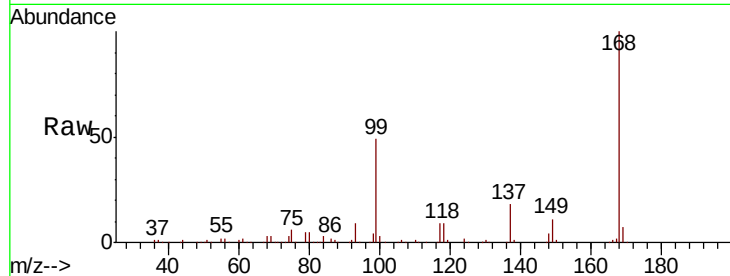




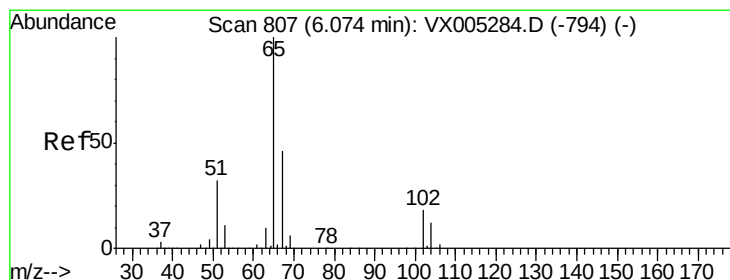
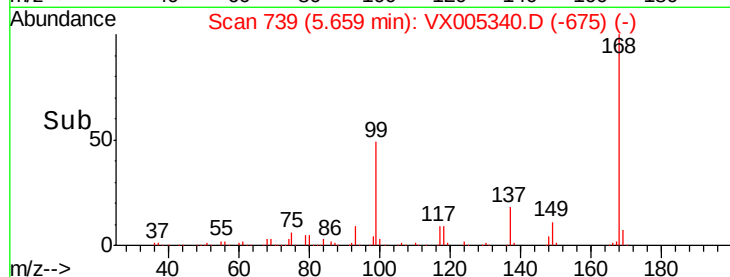
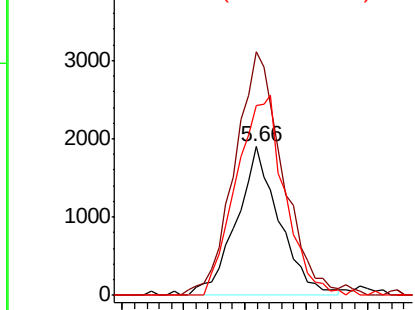
#31
Cyclohexane
Concen: 1.130 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4639
Ion Ratio Lower Upper
56 100
69 160.2 25.4 38.2#
84 127.7 71.4 107.2#

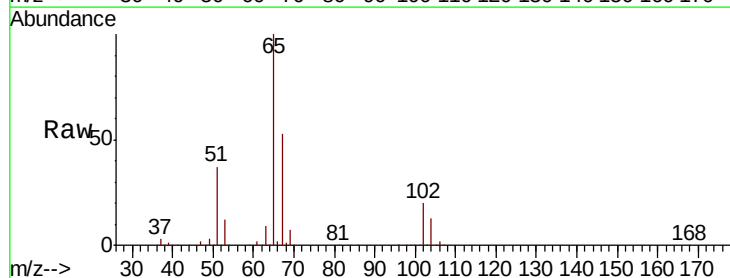


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

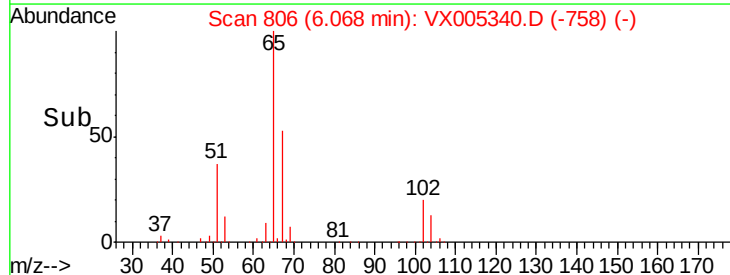
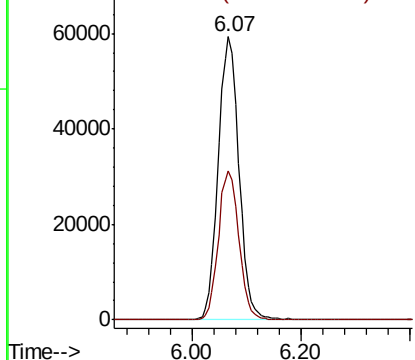


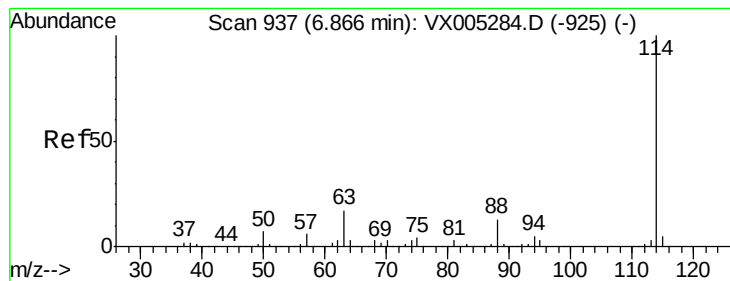
#33
1,2-Dichloroethane-d4
Concen: 52.731 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Tgt Ion: 65 Resp: 157496
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.8



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# 936

Delta R.T. -0.01 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :

MSVOA_X

ClientSampleId :

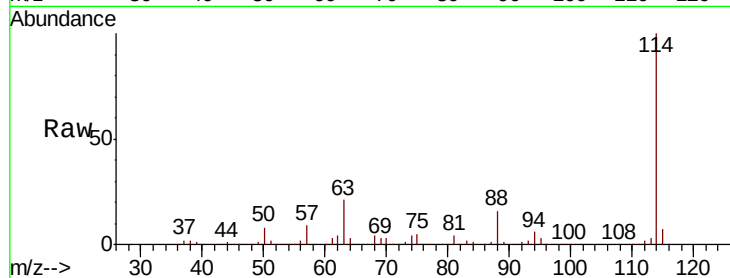
Tot Ion:114 Resp: 380254

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.0

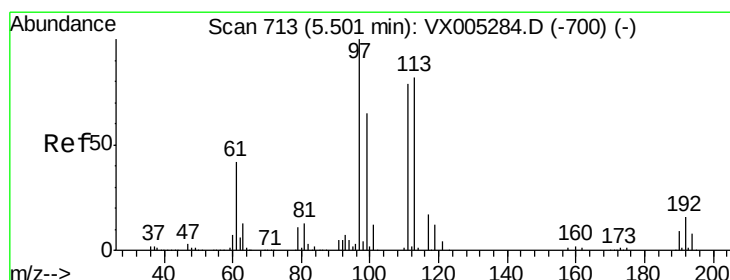
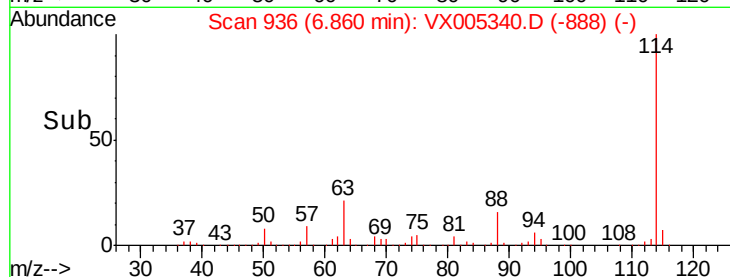
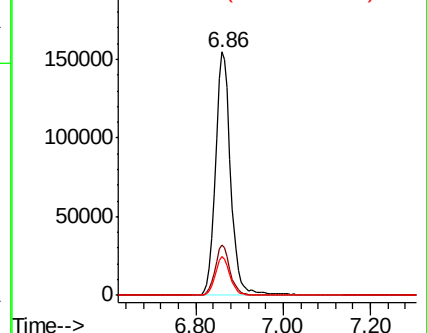
88 16.0 0.0 30.4



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: 49.933 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

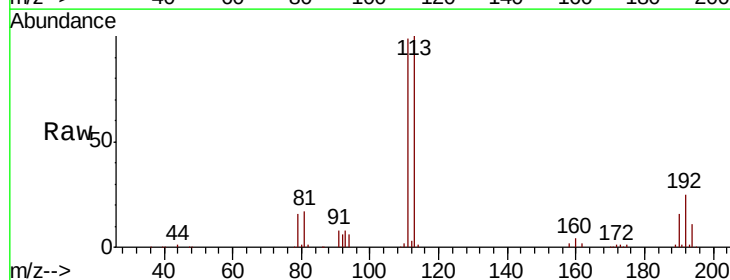
Tgt Ion:113 Resp: 125756

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

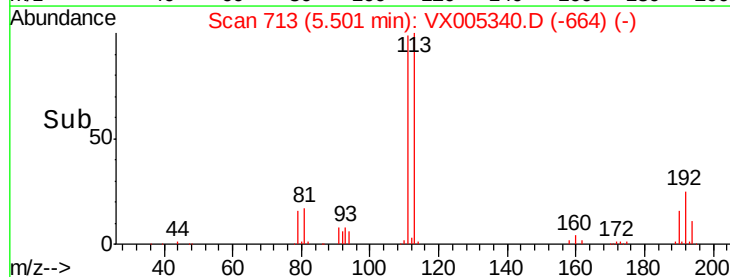
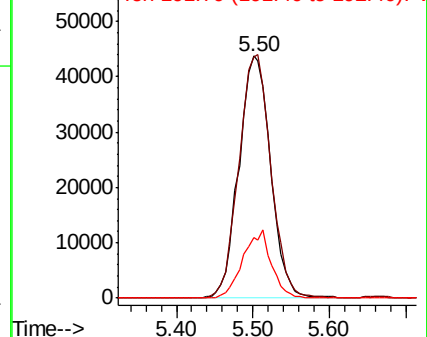
192 25.1 19.4 29.2

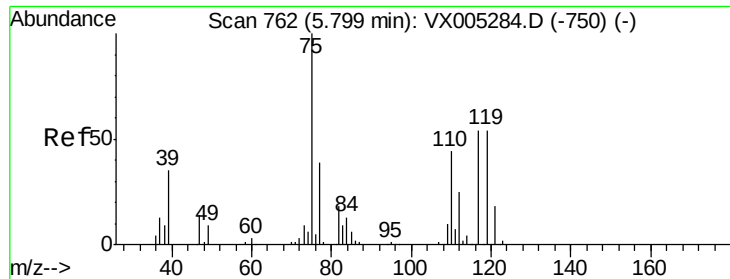


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

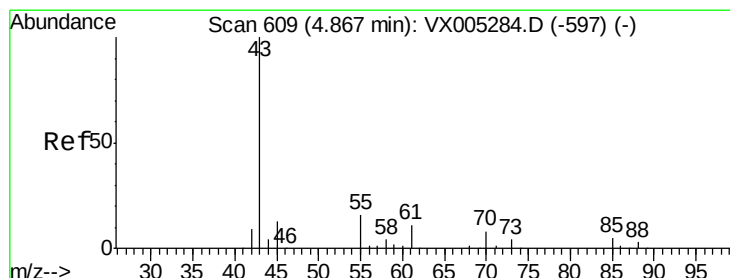
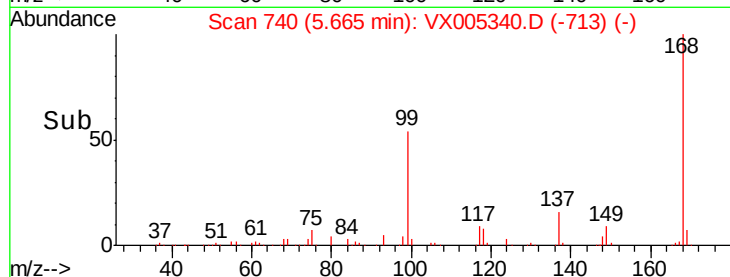
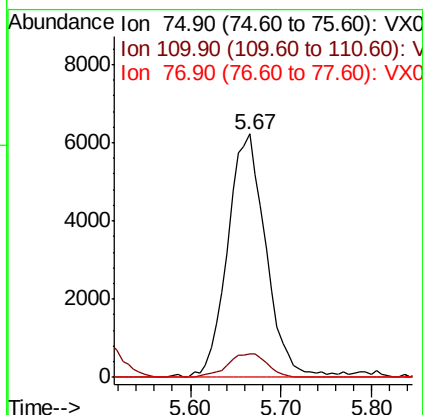
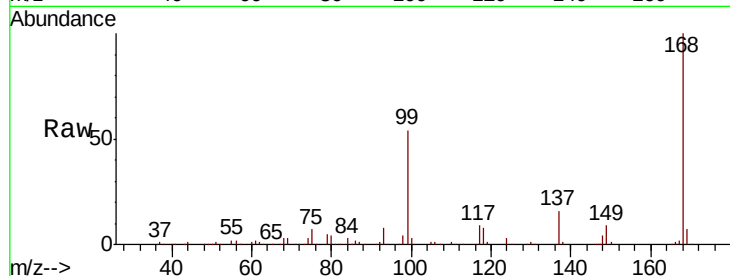




#36
 1,1-Dichloropropene
 Concen: 4.946 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005340.D
 Acq: 15 Oct 2018 13:41

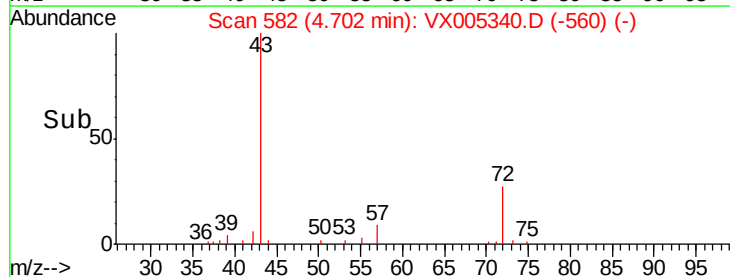
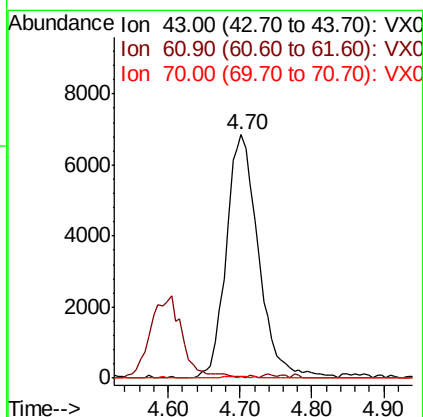
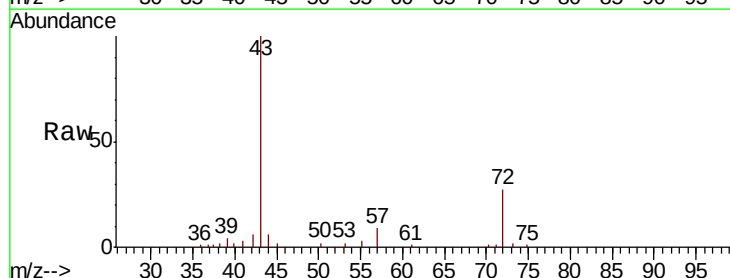
Instrument :
 MSVOA_X
 ClientSampleId :

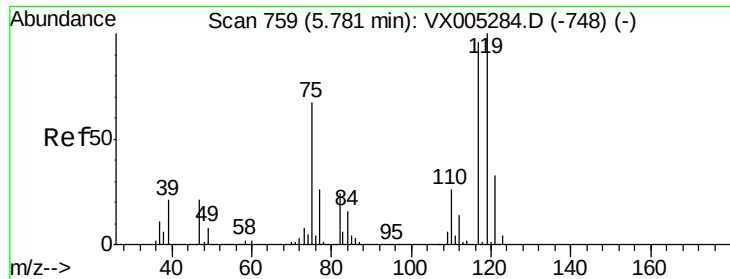
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.0	54.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 4.513 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. -0.16 min
 Lab File: VX005340.D
 Acq: 15 Oct 2018 13:41

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.3	9.0	13.6#





#38

Carbon Tetrachloride

Concen: 6.508 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :
MSVOA_X
ClientSampleId :

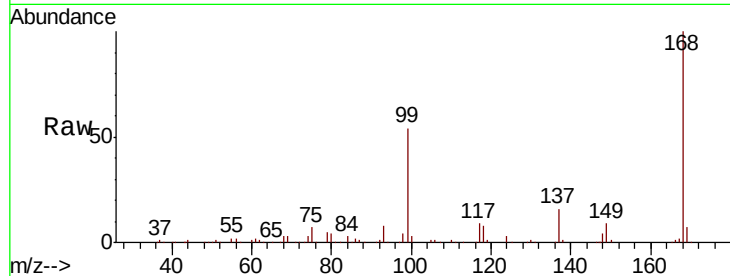
Tot Ion:117 Resp: 24082

Ion Ratio Lower Upper

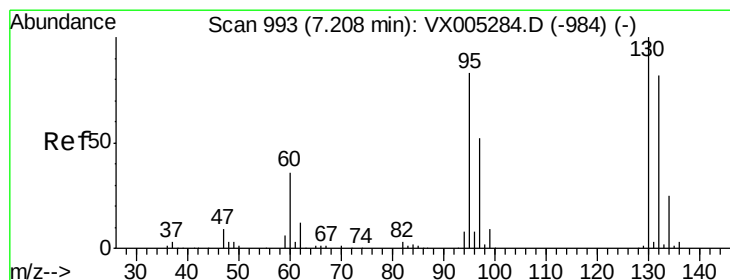
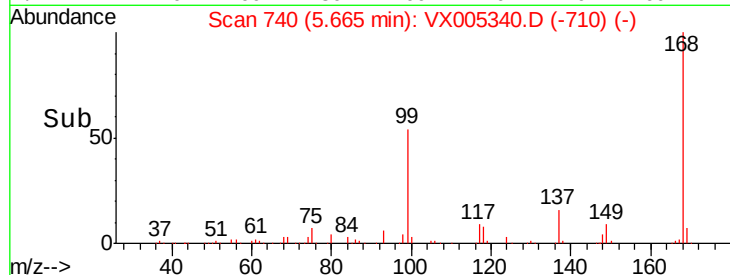
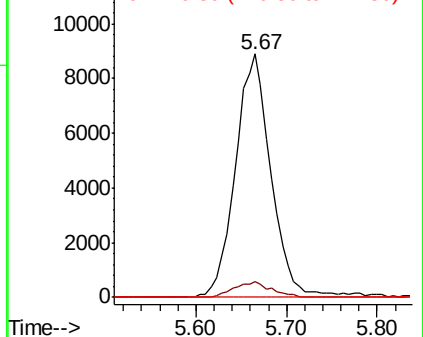
117 100

119 6.3 78.8 118.2#

121 0.0 24.9 37.3#



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: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX005340.D

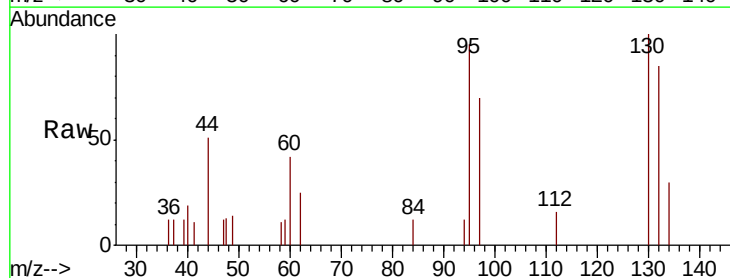
Acq: 15 Oct 2018 13:41

Tgt Ion:130 Resp: 1089

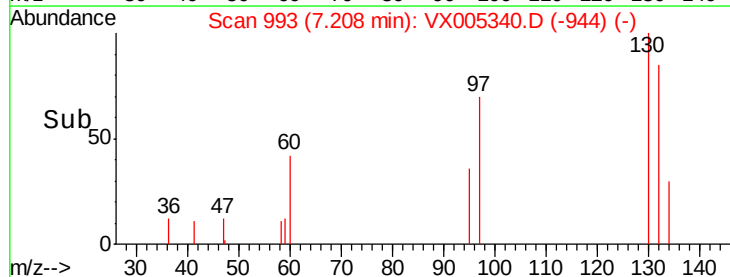
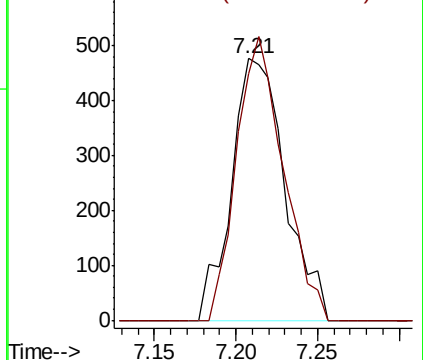
Ion Ratio Lower Upper

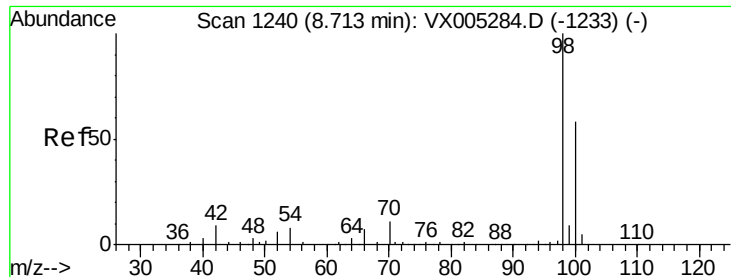
130 100

95 94.5 0.0 181.6



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





#50

Toluene-d8

Concen: 52.939 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :

MSVOA_X

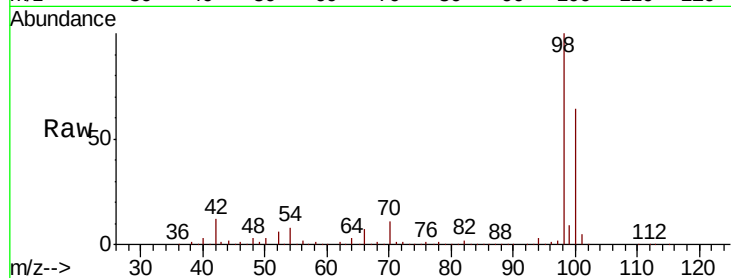
ClientSampleId :

Tot Ion: 98 Resp: 457726

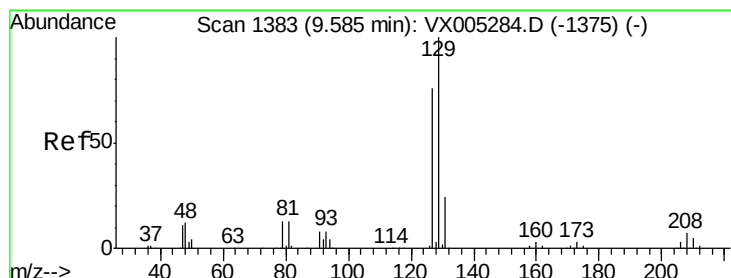
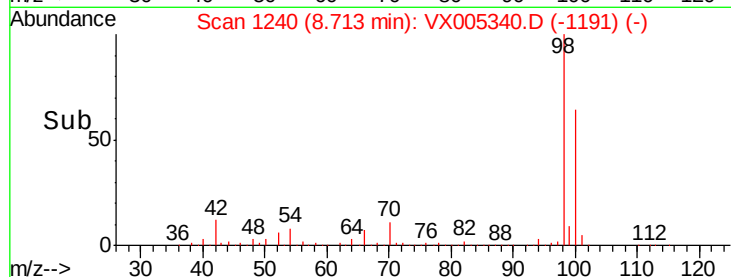
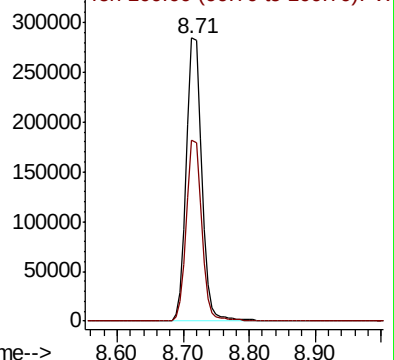
Ion Ratio Lower Upper

98 100

100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX005340.D (-1191) (-)



#60

Dibromochloromethane

Concen: 0.375 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005340.D

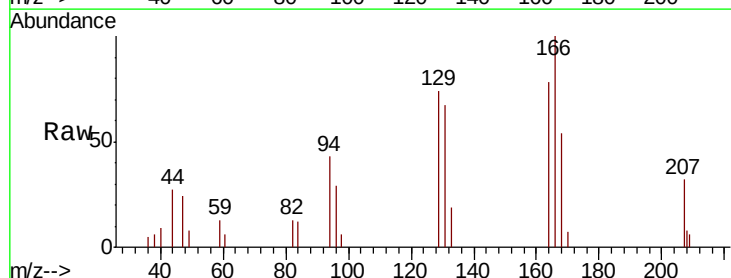
Acq: 15 Oct 2018 13:41

Tgt Ion: 129 Resp: 992

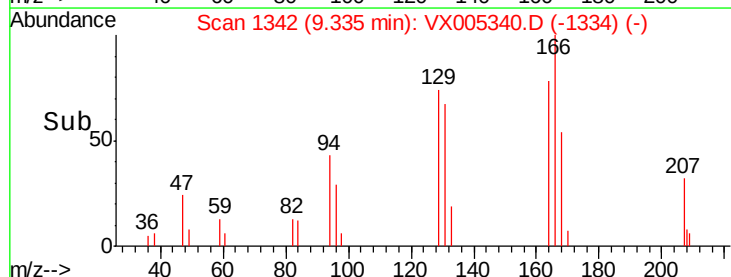
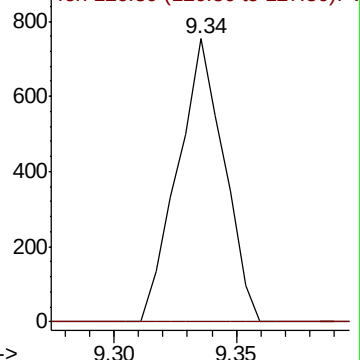
Ion Ratio Lower Upper

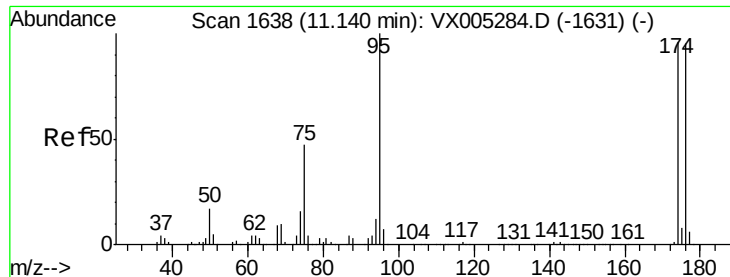
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VX005340.D (-1334) (-)

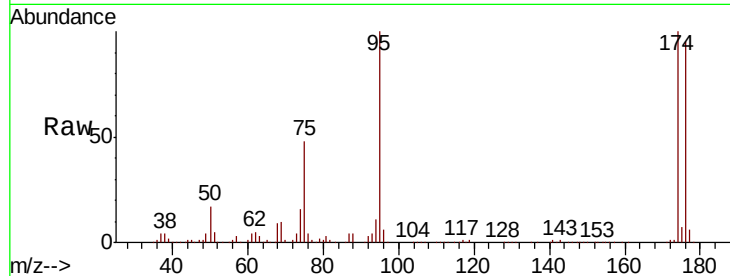




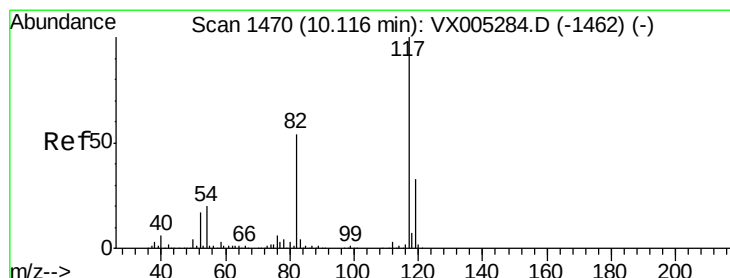
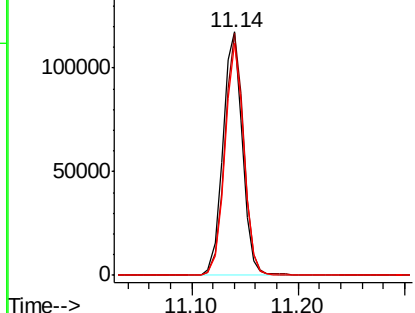
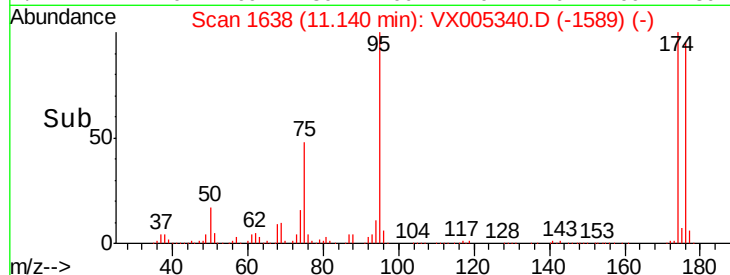
#62
4-Bromofluorobenzene
Concen: 46.194 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	97.8	0.0	185.2
176	93.0	0.0	178.6

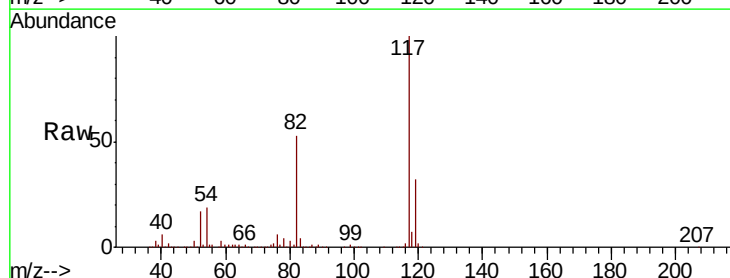


Abundance Ion 94.90 (94.60 to 95.60): VX005340.D (-1589) (-)
Ion 173.80 (173.50 to 174.50): VX005340.D (-1589) (-)
Ion 175.80 (175.50 to 176.50): VX005340.D (-1589) (-)

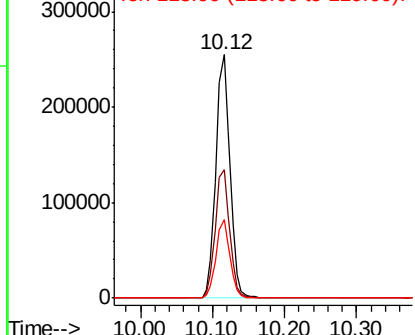
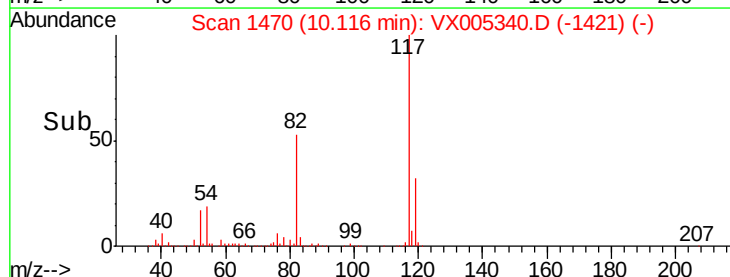


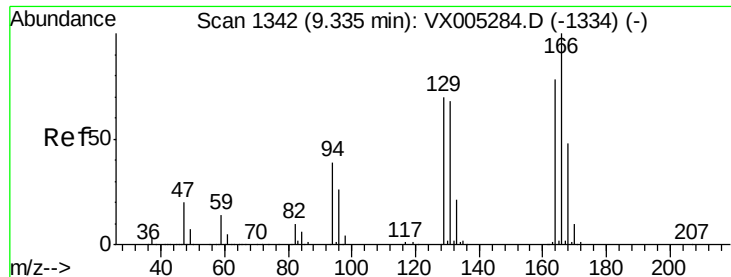
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.7	47.8	71.6
119	32.2	29.3	43.9



Abundance Ion 116.90 (116.60 to 117.60): VX005340.D (-1421) (-)
Ion 82.00 (81.70 to 82.70): VX005340.D (-1421) (-)
Ion 118.90 (118.60 to 119.60): VX005340.D (-1421) (-)

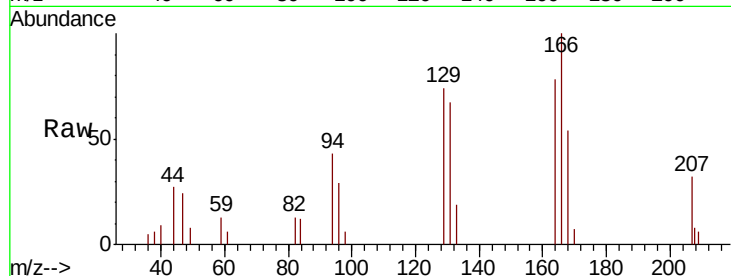




#64
Tetrachloroethene
Concen: 0.432 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.4	102.8	154.2
129	93.8	69.4	104.0
131	85.8	67.9	101.9



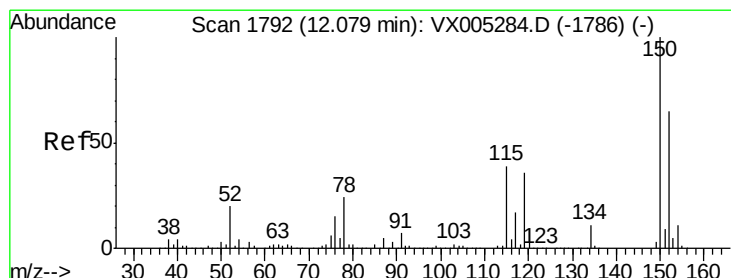
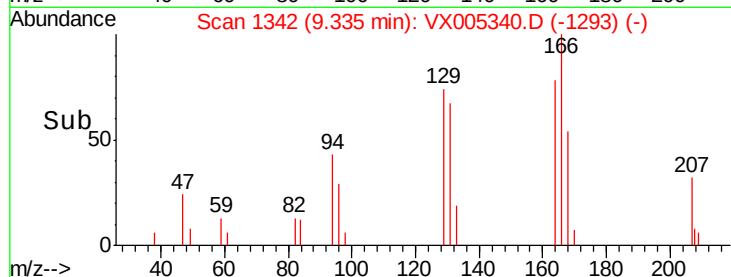
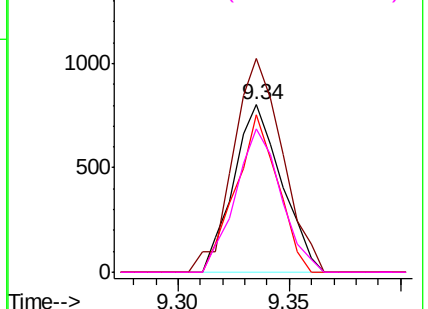
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

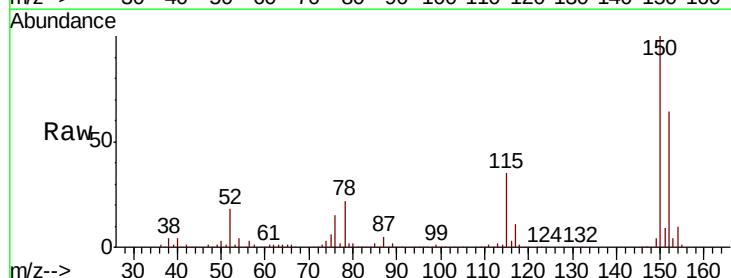
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005340.D
Acq: 15 Oct 2018 13:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.0	117.0
150	157.1	0.0	351.0

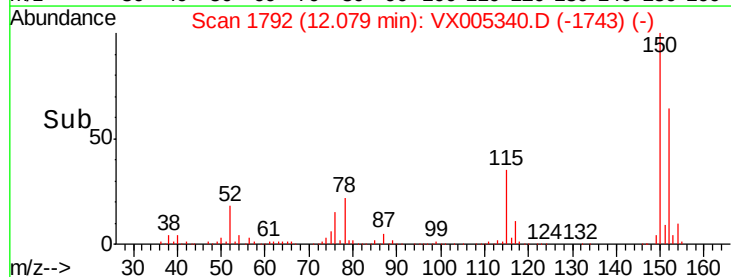
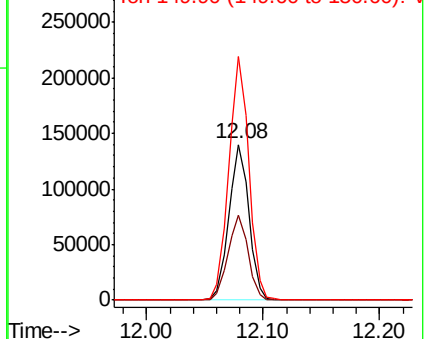


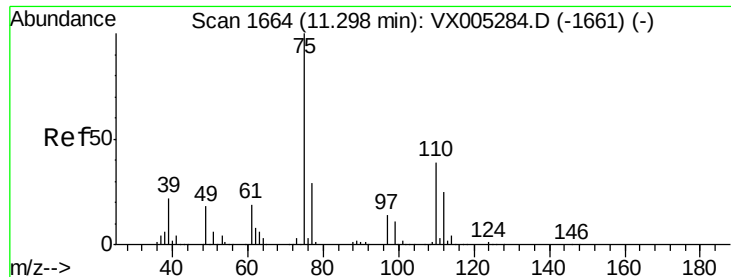
Abundance

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: 22.684 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

Instrument :

MSVOA_X

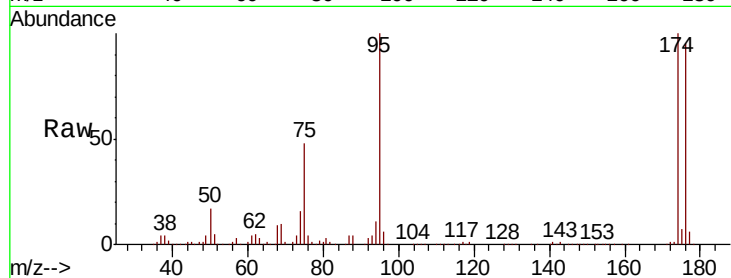
ClientSampleId :

Tot Ion: 75 Resp: 73582

Ion Ratio Lower Upper

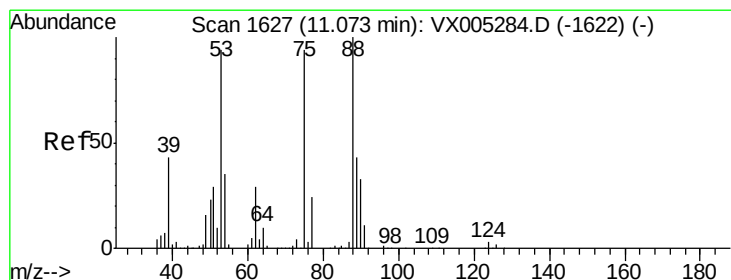
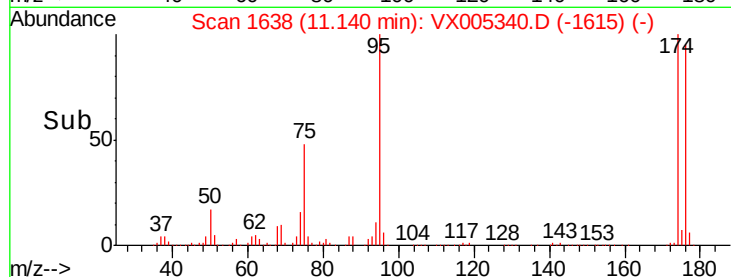
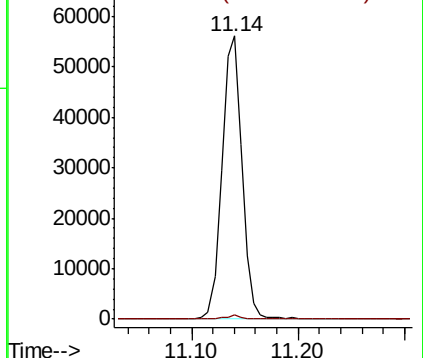
75 100

77 1.1 20.2 60.6#



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: 68.926 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005340.D

Acq: 15 Oct 2018 13:41

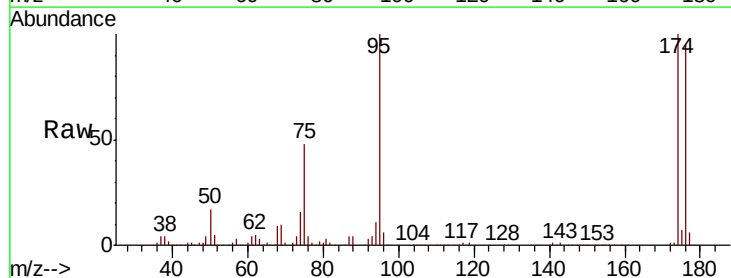
Tgt Ion: 75 Resp: 73582

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

