

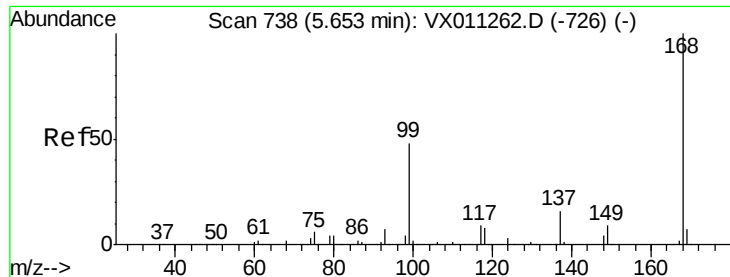
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011430.D
 Acq On : 11 Aug 2019 14:42
 Operator : JC/SP
 Sample : K4228-28
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F1-(1)

Quant Time: Aug 12 07:48:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	203310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	302187	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	274768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	127768	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	107604	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
35) Dibromofluoromethane	5.49	113	91482	46.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.74%	
50) Toluene-d8	8.71	98	356269	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
62) 4-Bromofluorobenzene	11.13	95	120097	45.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.34%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.73	64	225	Below Cal	#	43
8) Diethyl Ether	2.18	74	514	0.417	ug/l	95
11) Tert butyl alcohol	3.01	59	4279	10.503	ug/l #	81
13) Acrolein	2.30	56	62	Below Cal	#	63
16) Acetone	2.43	43	6350	6.516	ug/l	98
18) Methyl Acetate	2.76	43	972	0.436	ug/l #	77
20) Methylene Chloride	2.85	84	7368	3.452	ug/l	93
25) 2-Butanone	4.68	43	748	0.540	ug/l	97
29) Tetrahydrofuran	5.10	42	331	0.389	ug/l #	29
36) 1,1-Dichloropropene	5.65	75	14060	5.329	ug/l #	48
38) Carbon Tetrachloride	5.66	117	19233	7.246	ug/l #	13
43) Isopropyl Acetate	6.44	43	8503	2.010	ug/l	97
48) Methyl methacrylate	7.67	41	3690	1.853	ug/l #	10
49) 1,4-Dioxane	7.70	88	31	0.537	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	42969	15.736	ug/l #	49
53) t-1,3-Dichloropropene	9.02	75	91	2.868	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	21767	7.394	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	5439	1.607	ug/l #	41
59) 2-Hexanone	9.54	43	68657	32.461	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	62062	26.673	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	62062	69.301	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

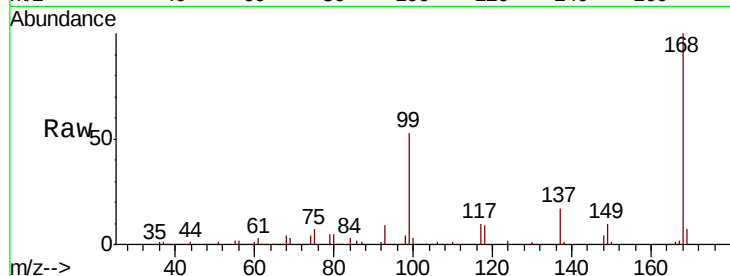
2S-F1-(1)

Tgt Ion:168 Resp: 203310

Ion Ratio Lower Upper

168 100

99 52.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

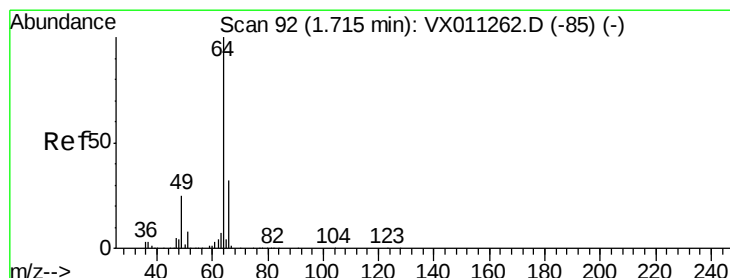
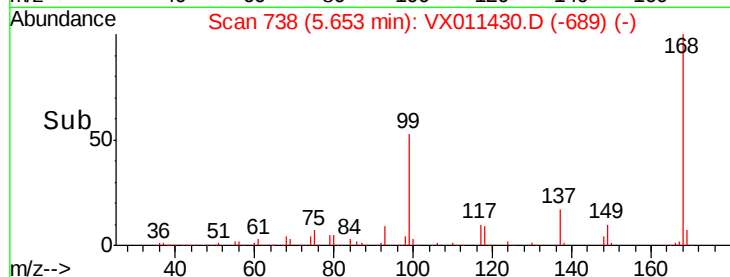
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011430.D

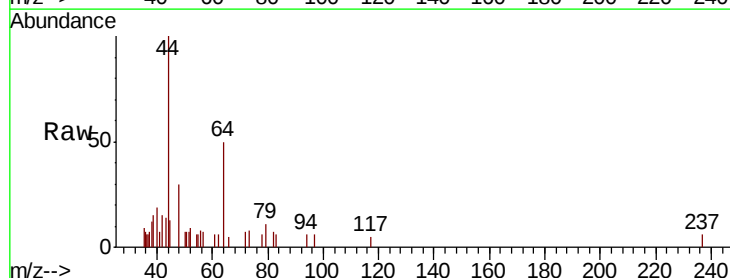
Acq: 11 Aug 2019 14:42

Tgt Ion: 64 Resp: 225

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

600

500

400

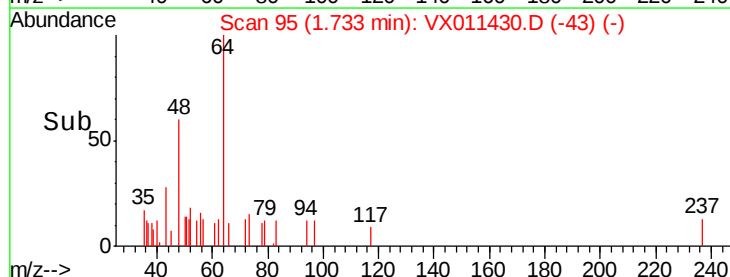
300

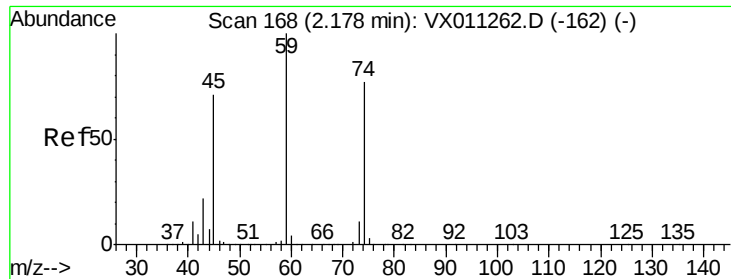
200

100

0

Time--> 1.70 1.72 1.74





#8

Diethyl Ether

Concen: 0.417 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

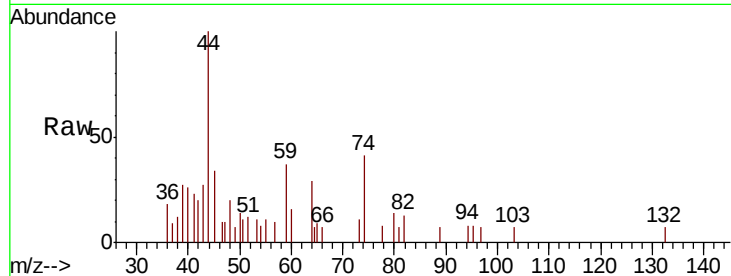
2S-F1-(1)

Tgt Ion: 74 Resp: 514

Ion Ratio Lower Upper

74 100

45 97.1 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

300

200

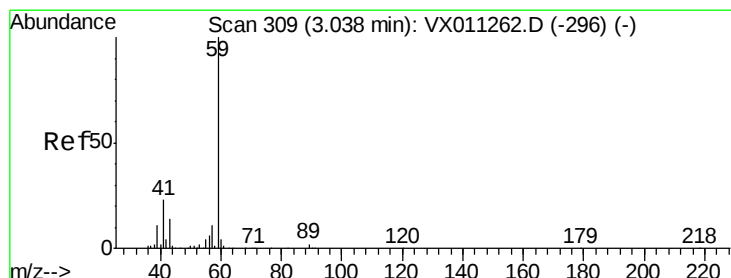
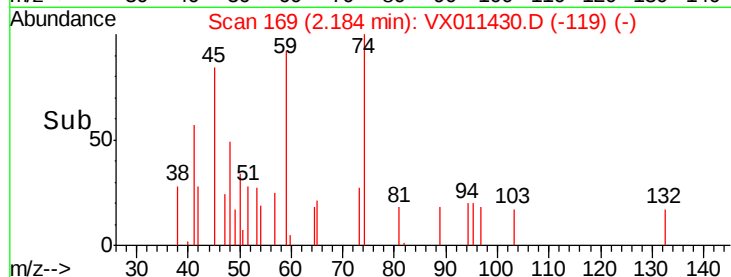
100

0

Time-->

2.15

2.20



#11

Tert butyl alcohol

Concen: 10.503 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011430.D

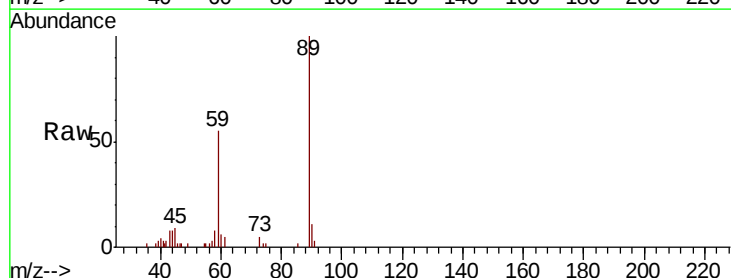
Acq: 11 Aug 2019 14:42

Tgt Ion: 59 Resp: 4279

Ion Ratio Lower Upper

59 100

57 3.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

2000

1500

1000

500

0

Time-->

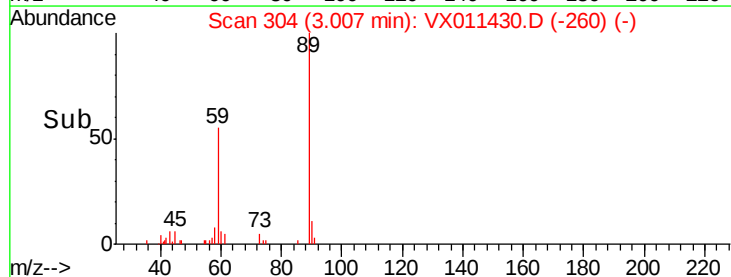
2.90

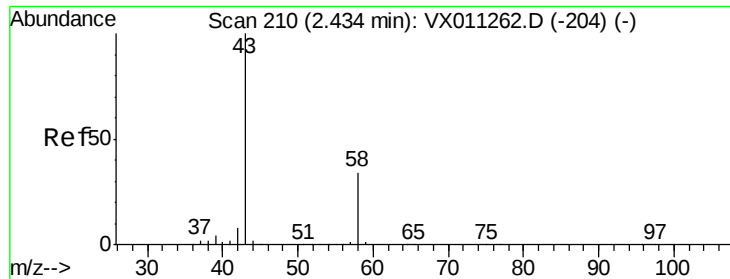
2.95

3.00

3.05

3.10





#16

Acetone

Concen: 6.516 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

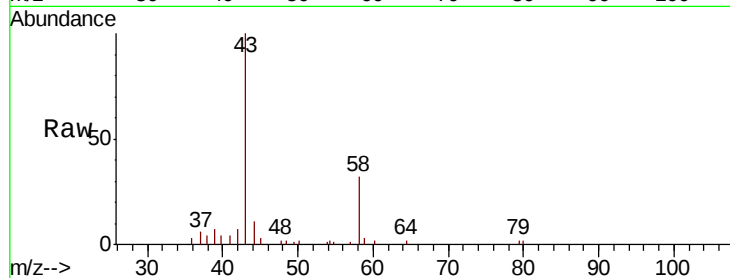
2S-F1-(1)

Tgt Ion: 43 Resp: 6350

Ion Ratio Lower Upper

43 100

58 32.9 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

4000

3000

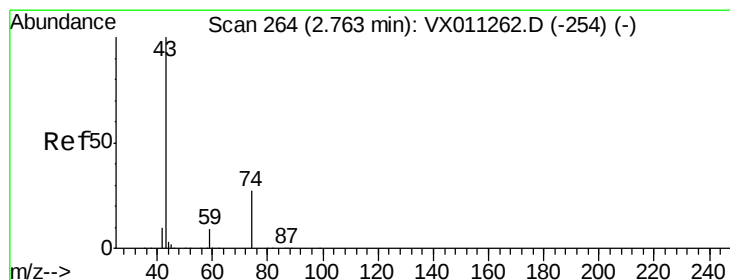
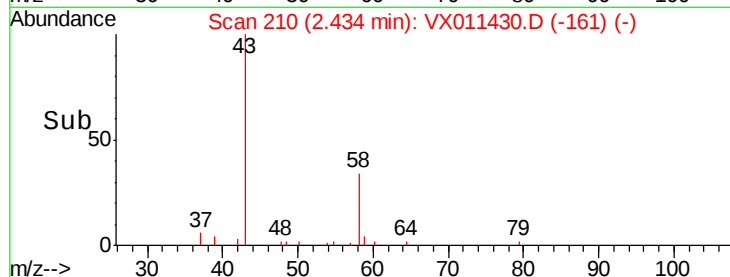
2000

1000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.436 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011430.D

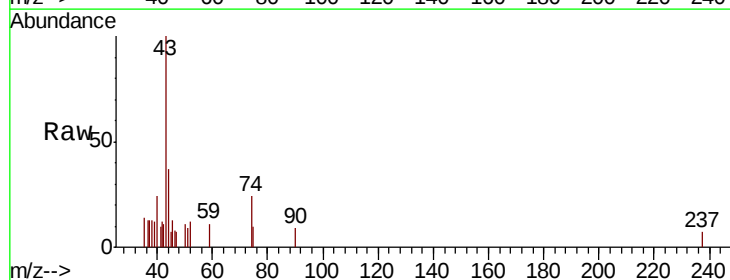
Acq: 11 Aug 2019 14:42

Tgt Ion: 43 Resp: 972

Ion Ratio Lower Upper

43 100

74 38.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

600

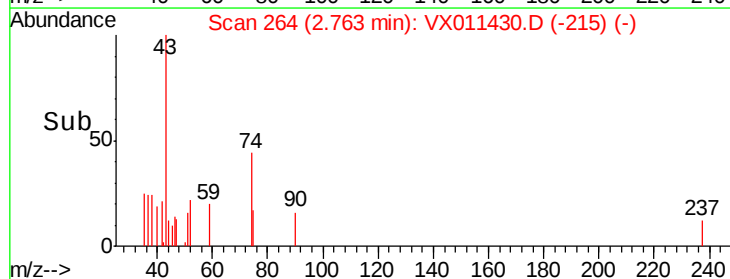
400

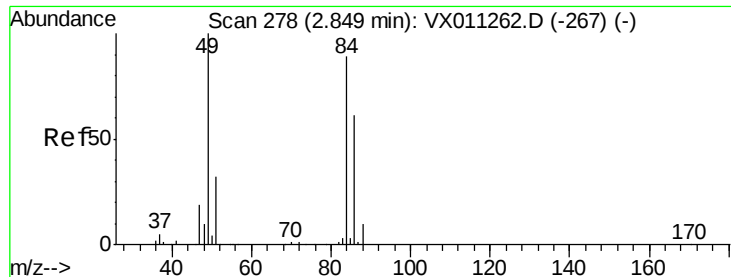
200

0

2.70 2.75 2.80

Time-->

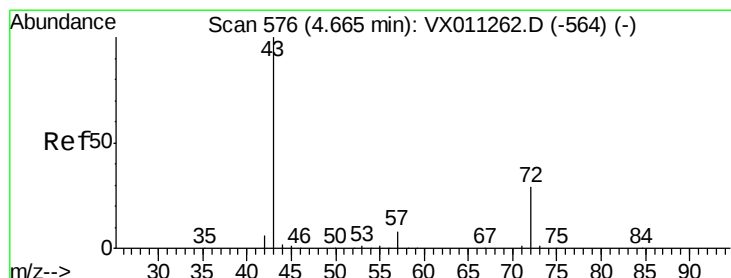
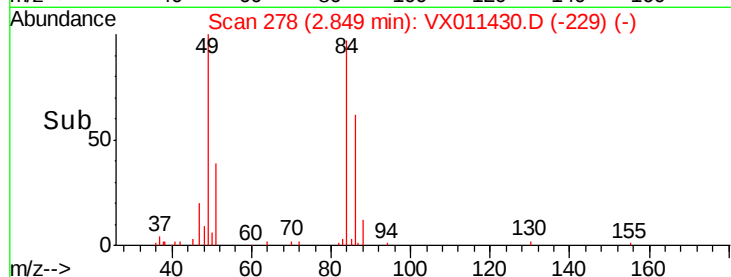
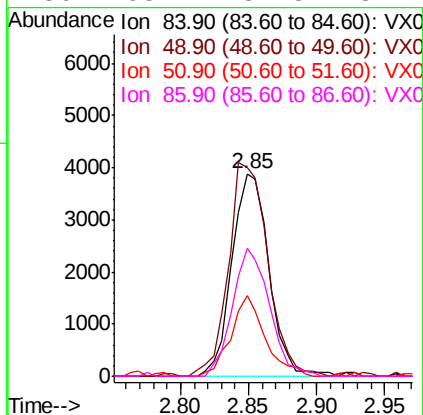
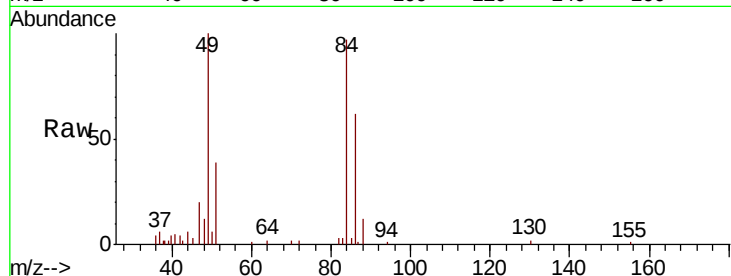




#20
Methylene Chloride
Concen: 3.452 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

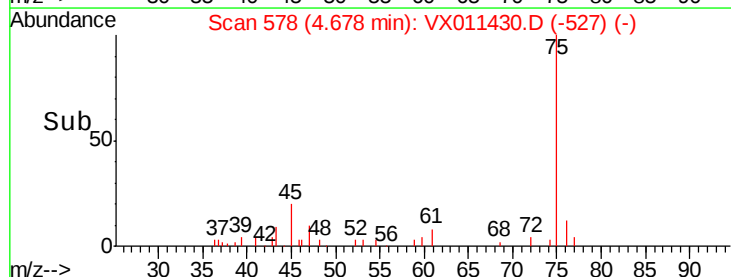
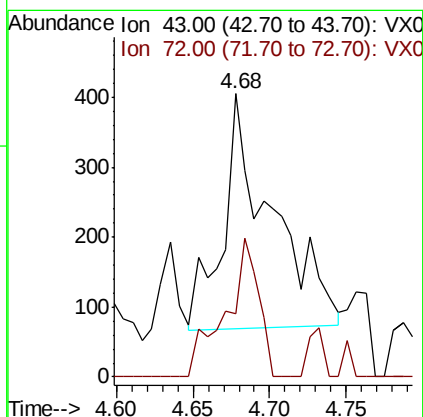
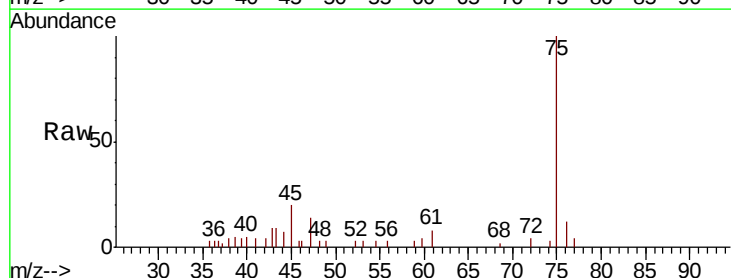
Instrument :
MSVOA_X
ClientSampleId :
2S-F1-(1)

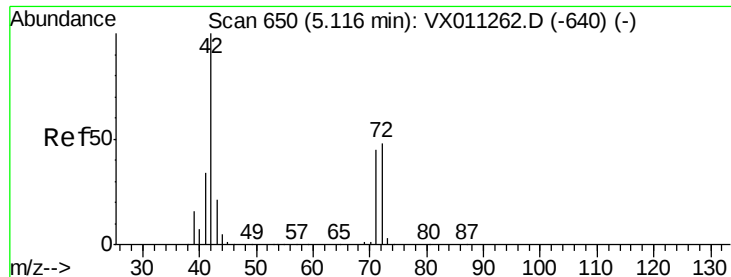
Tgt Ion:	84	Resp:	7368
Ion	Ratio	Lower	Upper
84	100		
49	103.0	89.3	133.9
51	40.0	28.3	42.5
86	63.4	54.5	81.7



#25
2-Butanone
Concen: 0.540 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Tgt Ion:	43	Resp:	748
Ion	Ratio	Lower	Upper
43	100		
72	27.6	23.2	34.8





#29

Tetrahydrofuran

Concen: 0.389 ug/l

RT: 5.10 min Scan# 648

Delta R.T. -0.01 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

2S-F1-(1)

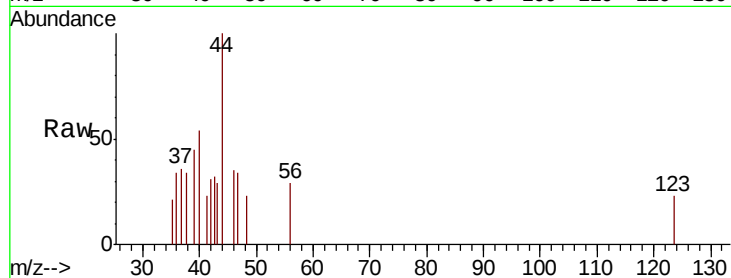
Tgt Ion: 42 Resp: 331

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

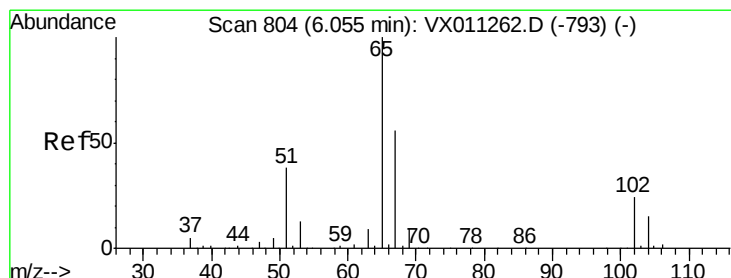
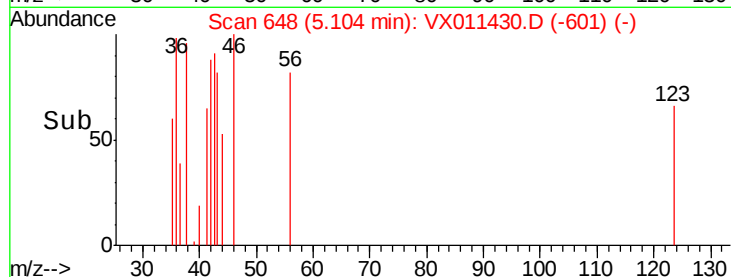
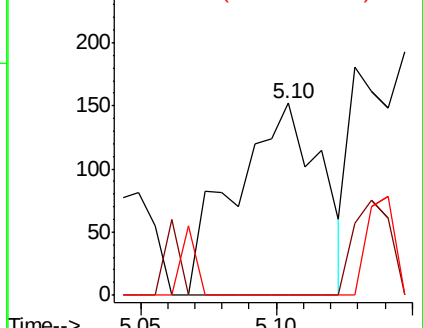
71 0.0 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.555 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011430.D

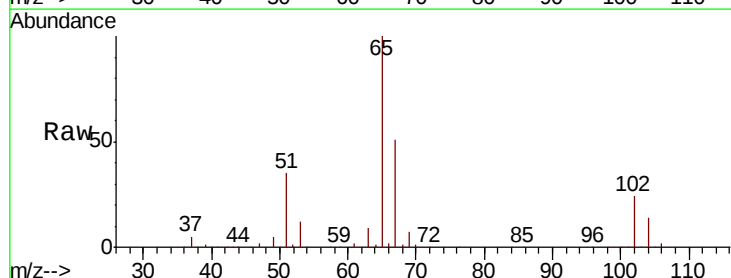
Acq: 11 Aug 2019 14:42

Tgt Ion: 65 Resp: 107604

Ion Ratio Lower Upper

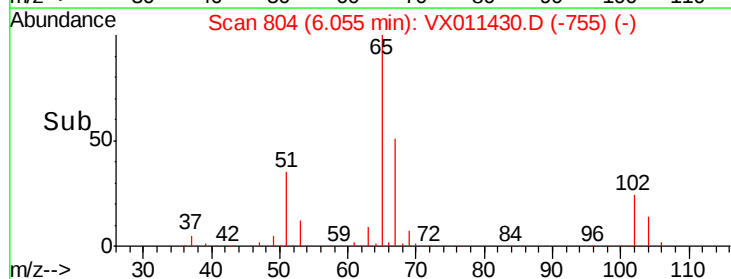
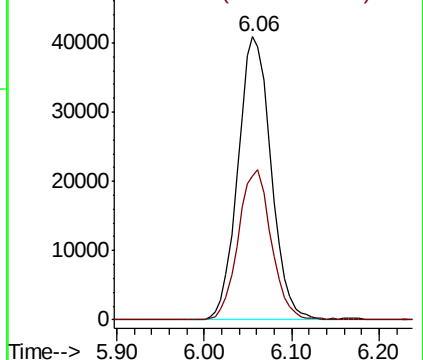
65 100

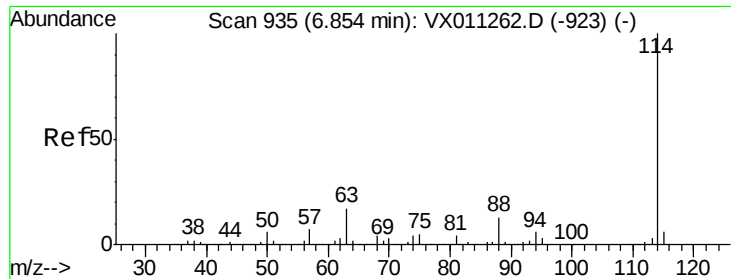
67 52.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

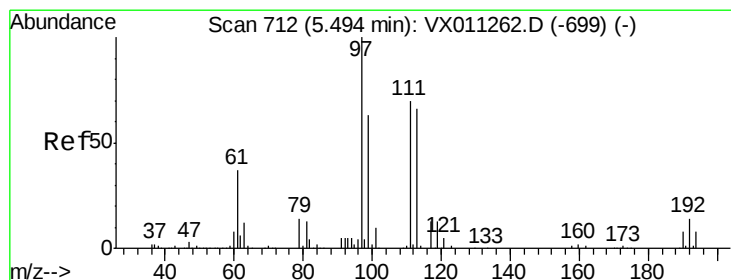
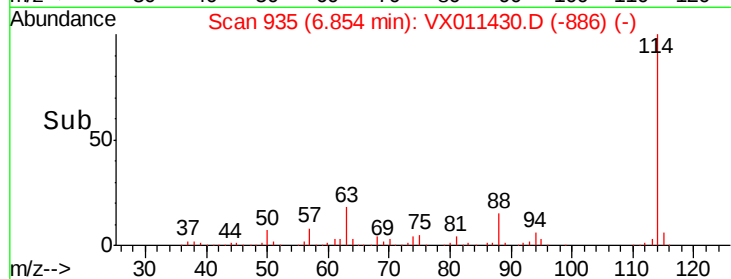
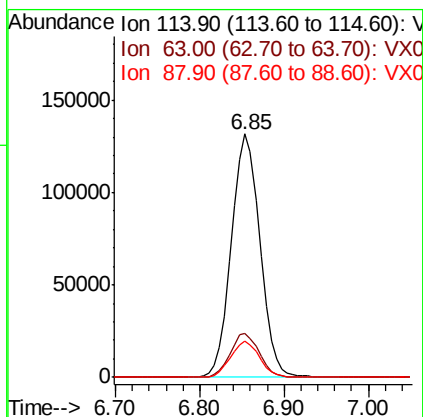
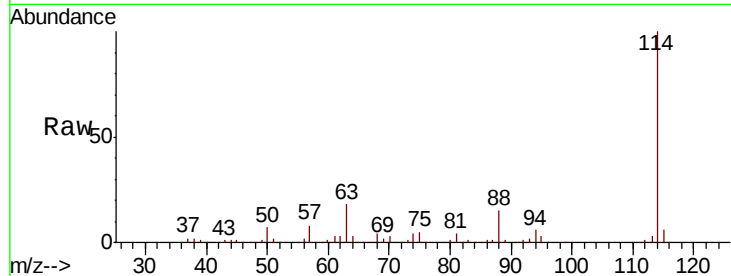




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

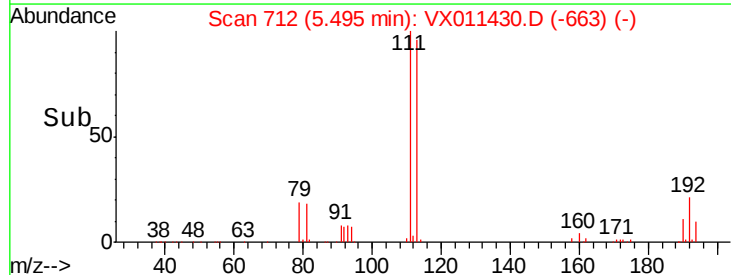
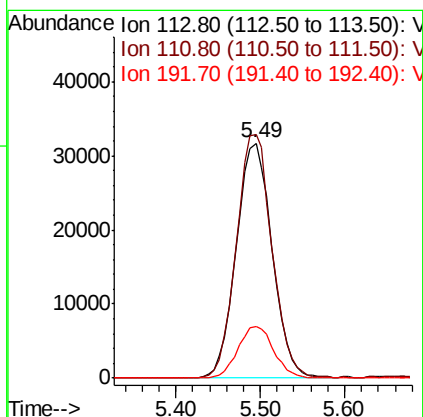
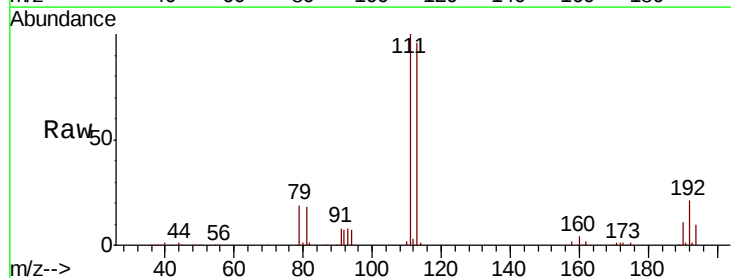
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F1-(1)

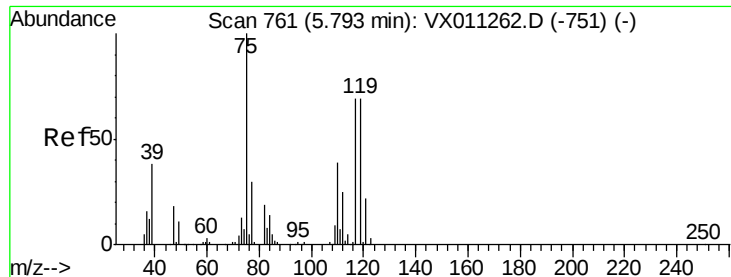
Tgt Ion:114 Resp: 302187
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.0
 88 14.8 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 46.369 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

Tgt Ion:113 Resp: 91482
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.9 122.9
 192 21.9 17.8 26.8

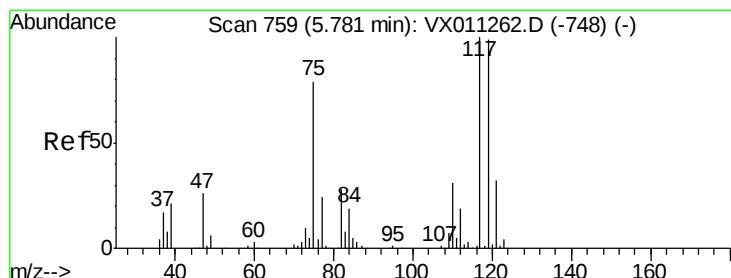
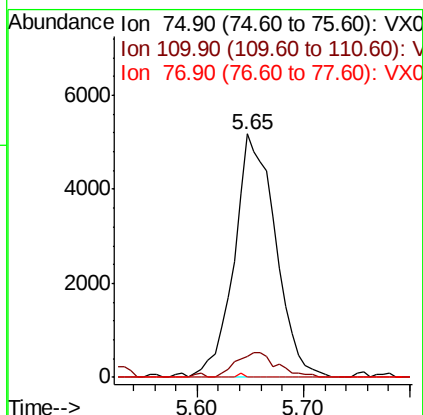
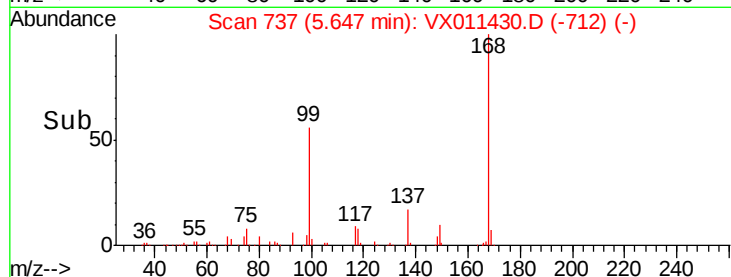
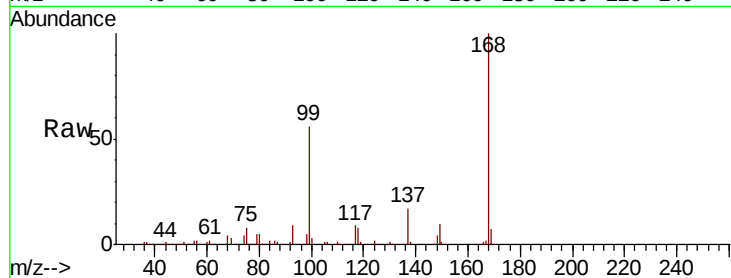




#36
 1,1-Dichloropropene
 Concen: 5.329 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.15 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

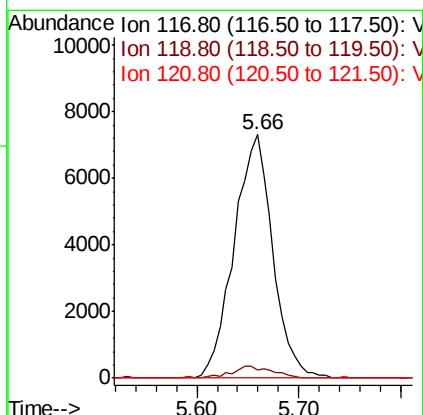
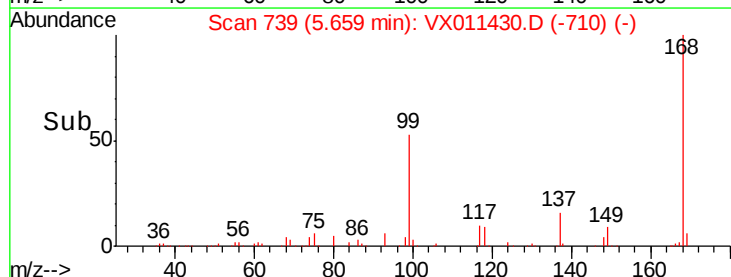
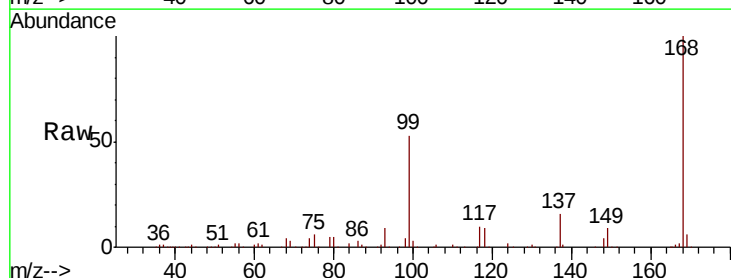
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F1-(1)

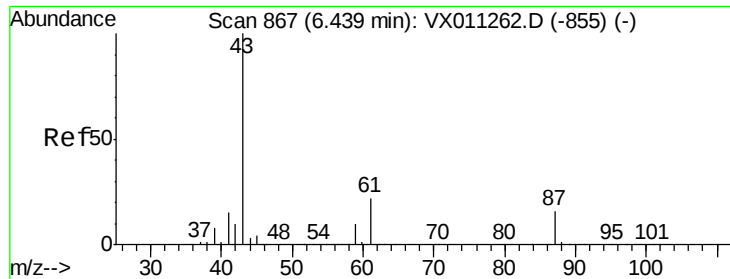
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	20.0	59.9#
77	0.2	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.246 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.2	79.0	118.4#
121	0.0	25.9	38.9#

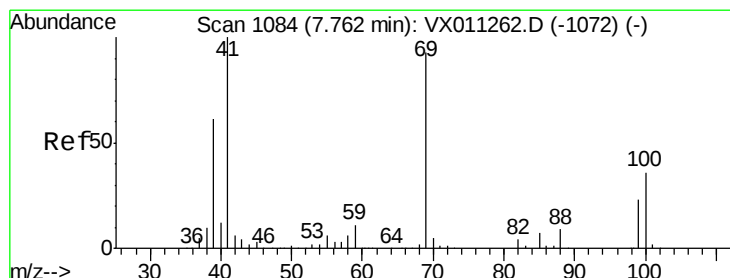
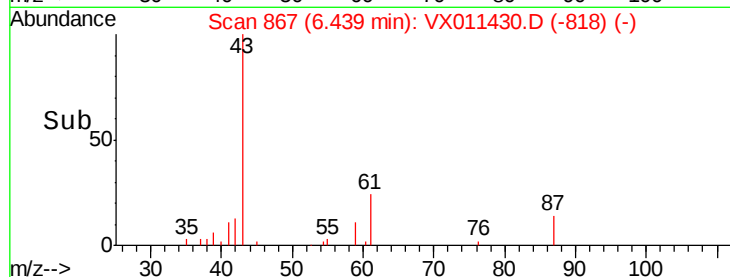
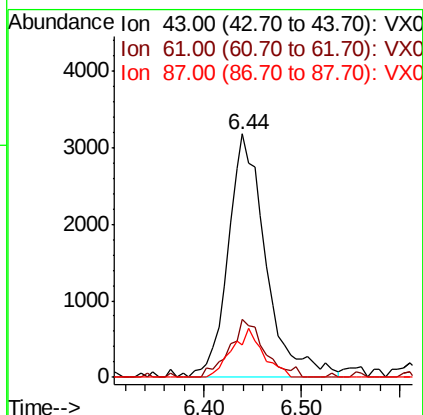
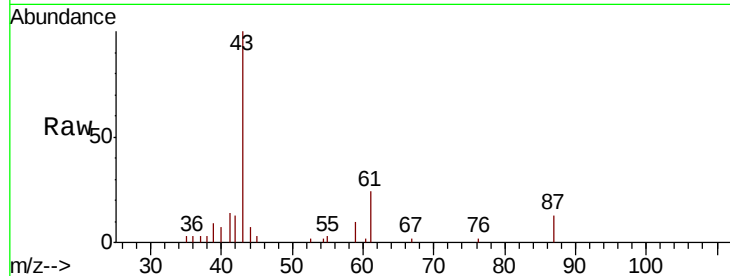




#43
Isopropyl Acetate
Concen: 2.010 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

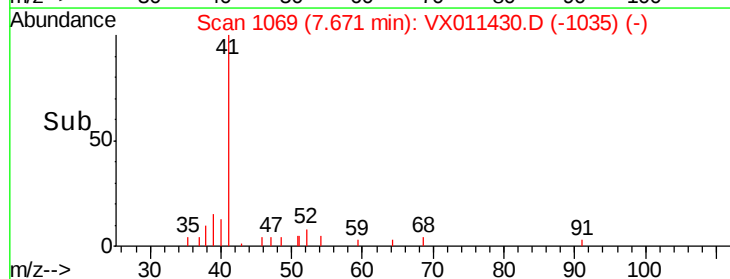
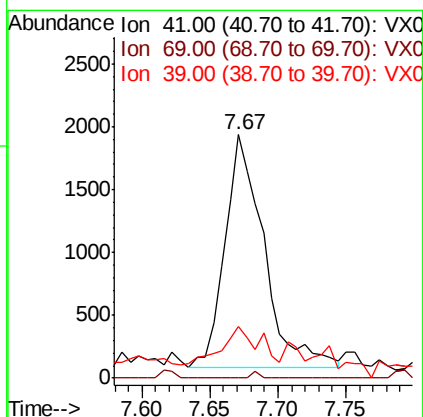
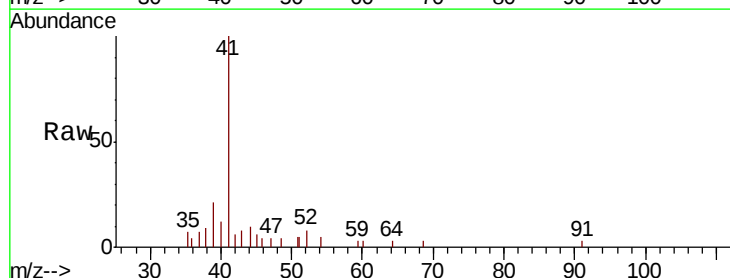
Instrument :
MSVOA_X
ClientSampleId :
2S-F1-(1)

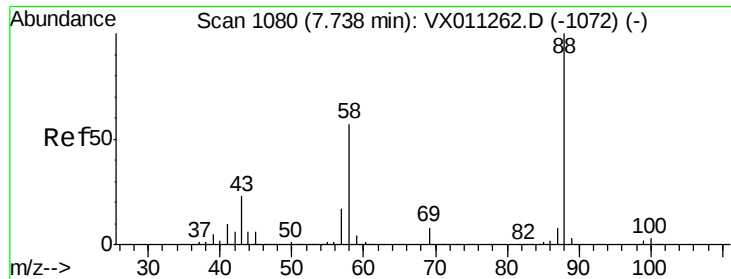
Tgt Ion:	43	Resp:	8503
Ion	Ratio	Lower	Upper
43	100		
61	22.1	16.5	24.7
87	16.5	12.1	18.1



#48
Methyl methacrylate
Concen: 1.853 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Tgt Ion:	41	Resp:	3690
Ion	Ratio	Lower	Upper
41	100		
69	0.5	74.5	111.7#
39	0.0	48.6	72.8#

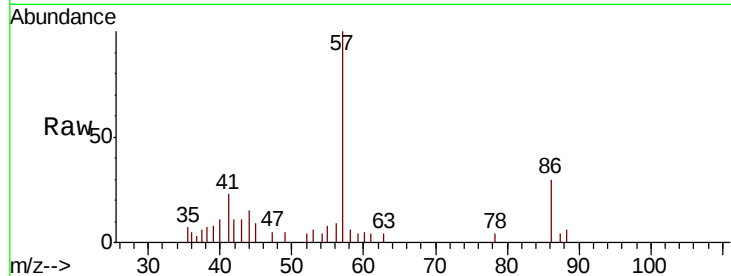




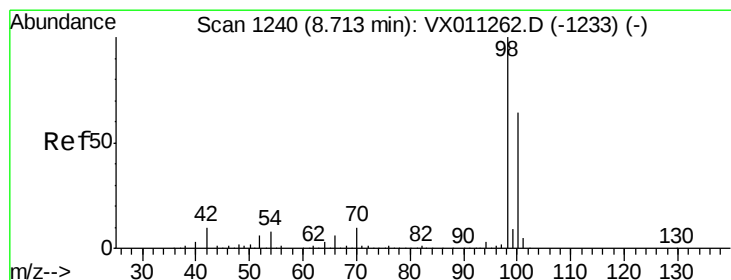
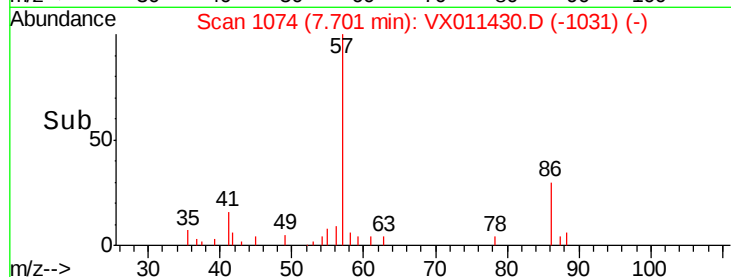
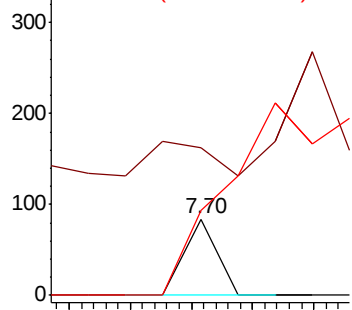
#49
1,4-Dioxane
Concen: 0.537 ug/l
RT: 7.70 min Scan# 1074
Delta R.T. -0.04 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Instrument :
MSVOA_X
ClientSampleId :
2S-F1-(1)

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 1300.0 47.8 71.8#

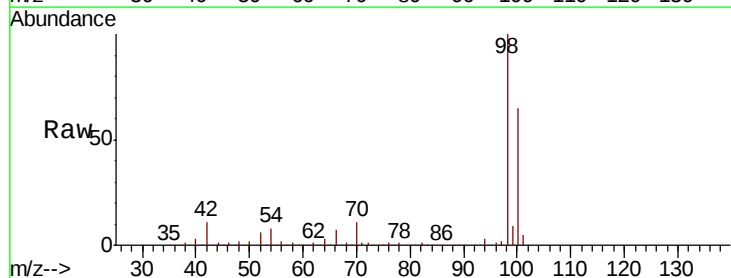


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

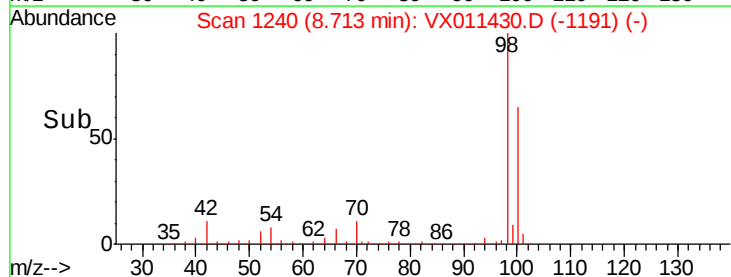
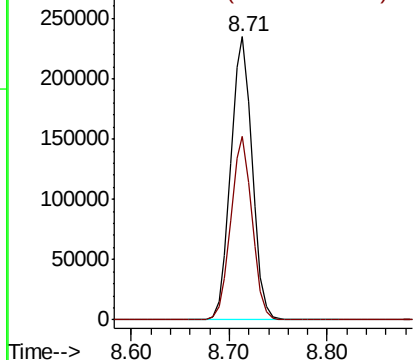


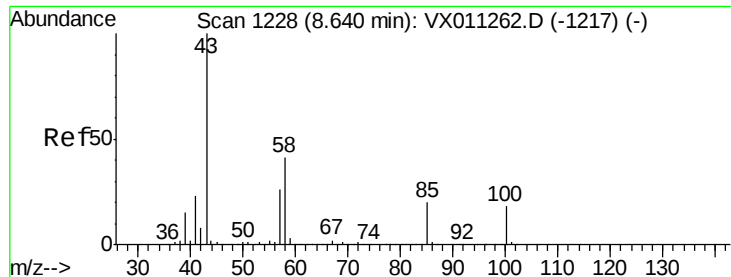
#50
Toluene-d8
Concen: 47.840 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Tgt Ion: 98 Resp: 356269
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



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

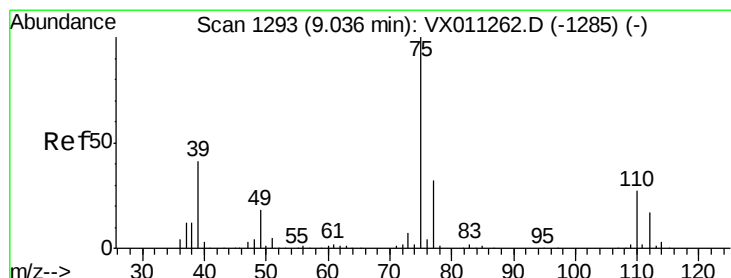
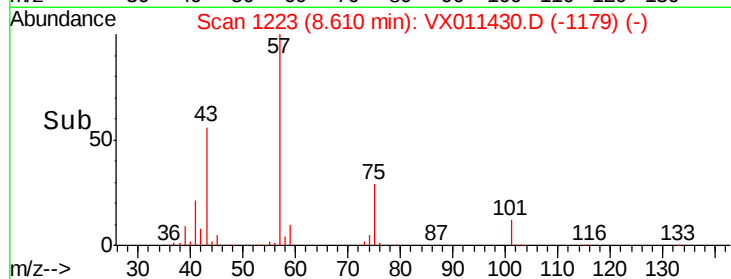
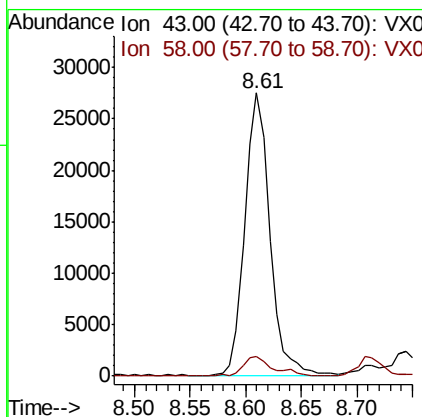
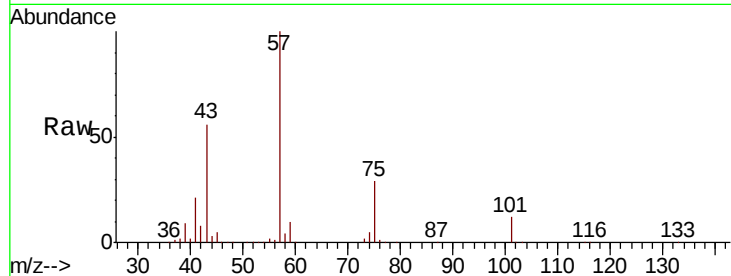




#51
 4-Methyl-2-Pentanone
 Concen: 15.736 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

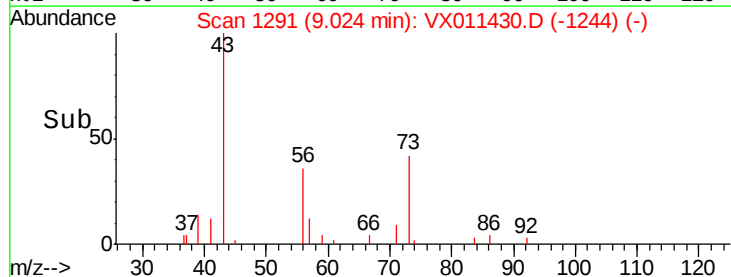
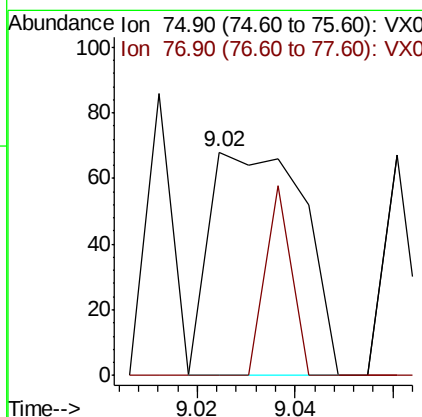
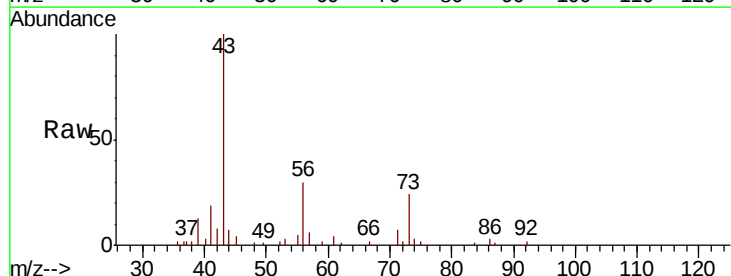
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F1-(1)

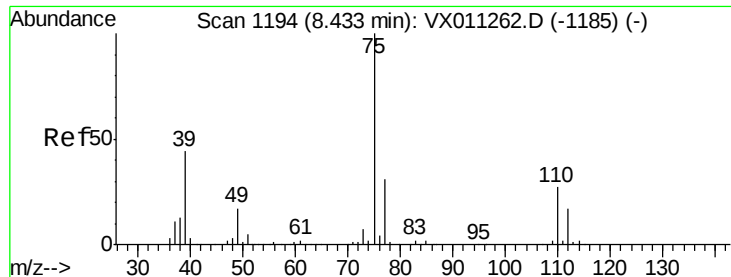
Tgt Ion: 43 Resp: 42969
 Ion Ratio Lower Upper
 43 100
 58 8.6 32.3 48.5#



#53
 t-1,3-Dichloropropene
 Concen: 2.868 ug/l
 RT: 9.02 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VX011430.D
 Acq: 11 Aug 2019 14:42

Tgt Ion: 75 Resp: 91
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#





#54

cis-1,3-Dichloropropene

Concen: 7.394 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampleId :

2S-F1-(1)

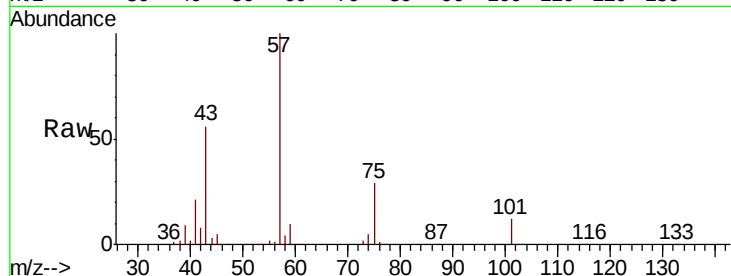
Tgt Ion: 75 Resp: 21767

Ion Ratio Lower Upper

75 100

77 1.4 25.0 37.6#

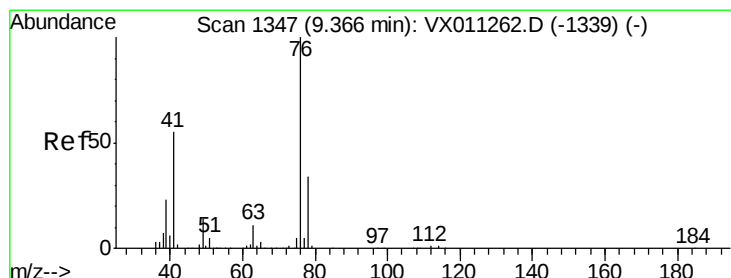
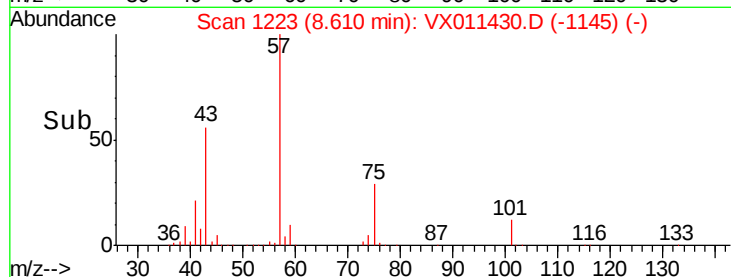
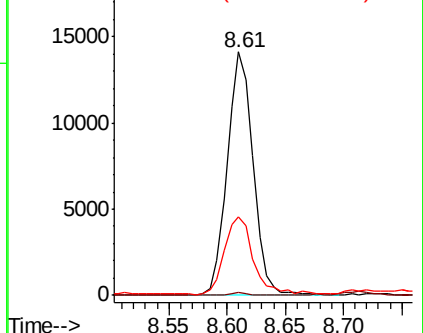
39 31.7 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.607 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011430.D

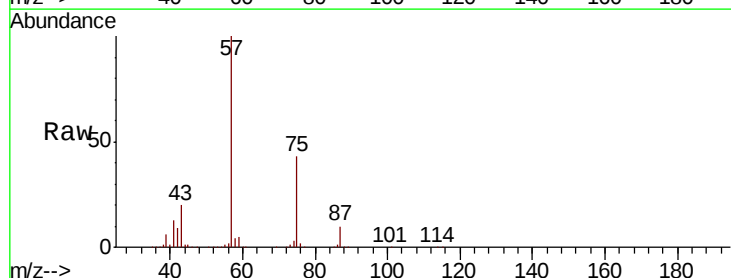
Acq: 11 Aug 2019 14:42

Tgt Ion: 76 Resp: 5439

Ion Ratio Lower Upper

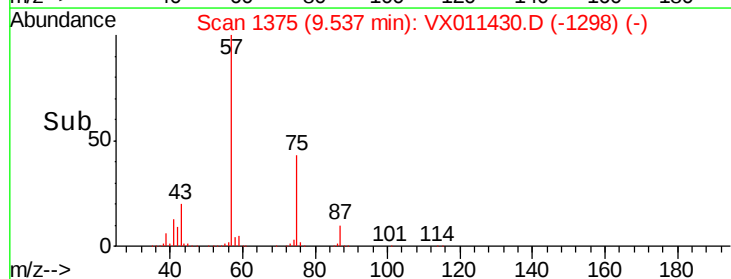
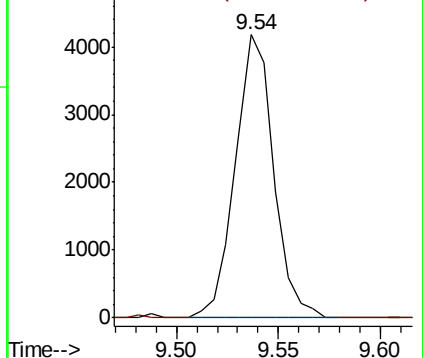
76 100

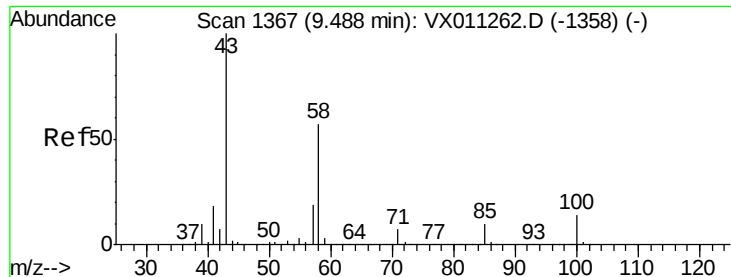
78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

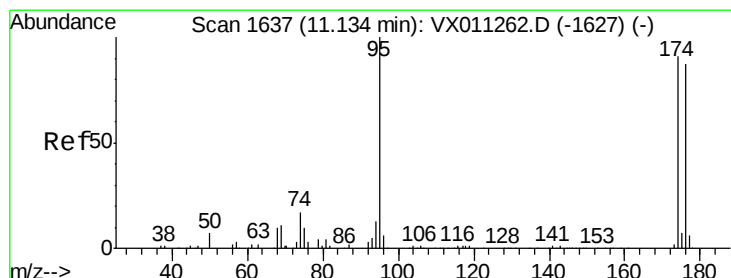
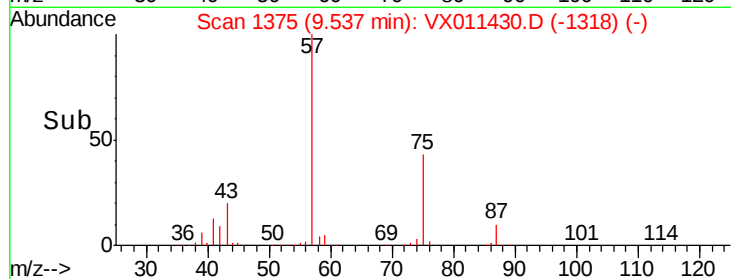
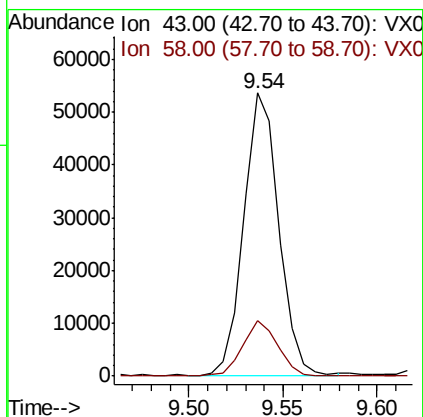
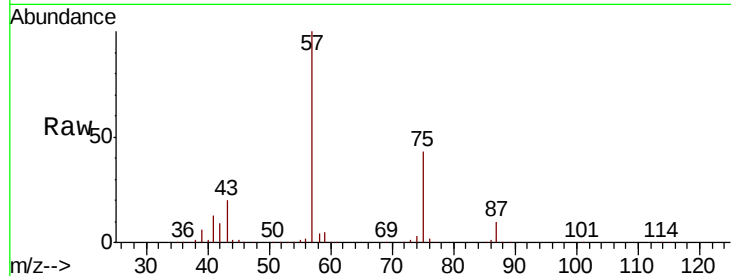




#59
2-Hexanone
Concen: 32.461 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

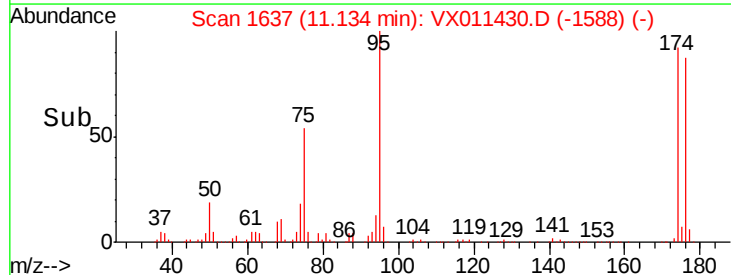
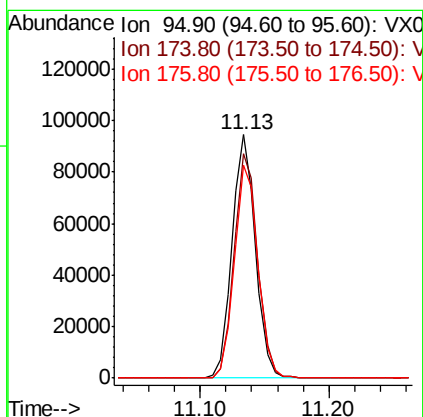
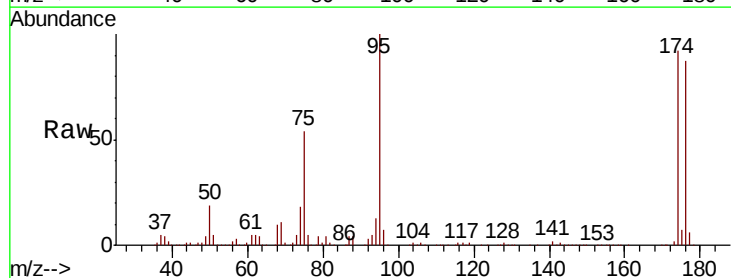
Instrument :
MSVOA_X
ClientSampled :
2S-F1-(1)

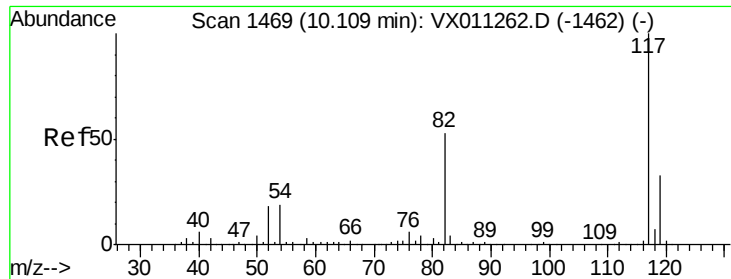
Tgt Ion: 43 Resp: 68657
Ion Ratio Lower Upper
43 100
58 19.9 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 45.169 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Tgt Ion: 95 Resp: 120097
Ion Ratio Lower Upper
95 100
174 92.5 0.0 191.2
176 88.2 0.0 184.8

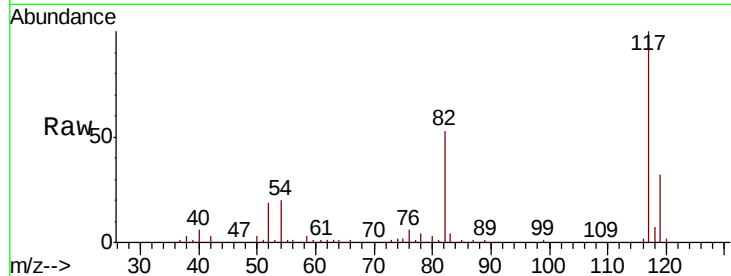




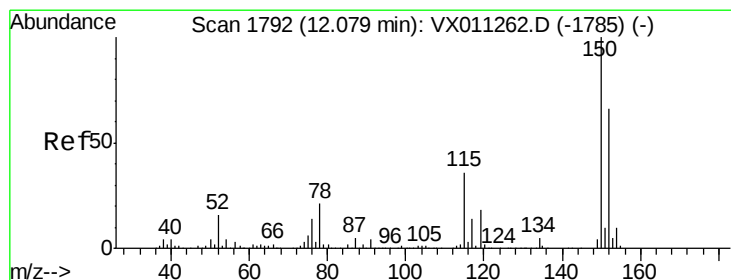
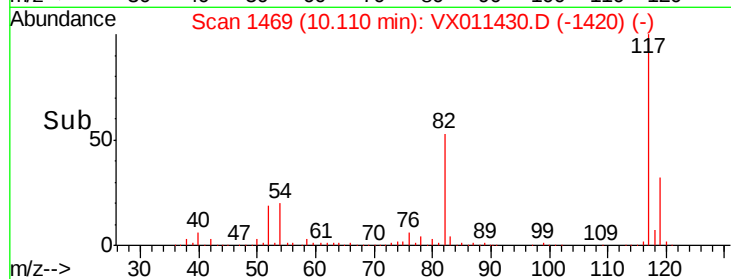
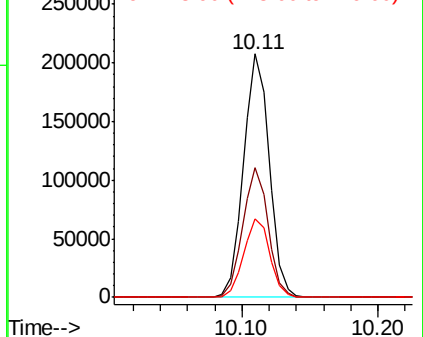
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Instrument :
MSVOA_X
ClientSampled :
2S-F1-(1)

Tgt Ion:117 Resp: 274768
Ion Ratio Lower Upper
117 100
82 53.3 42.2 63.2
119 32.3 26.6 39.8

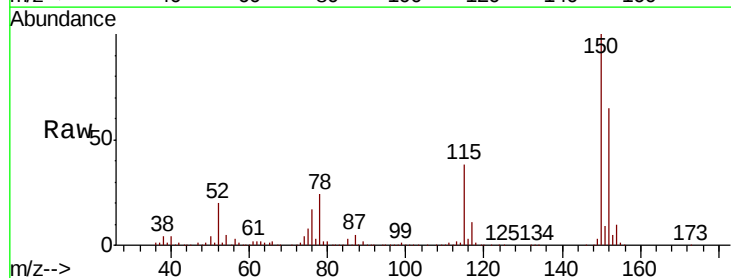


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

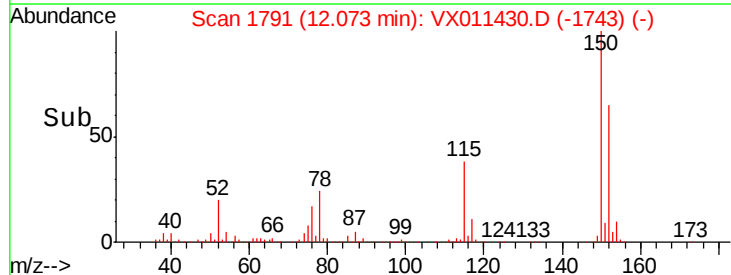
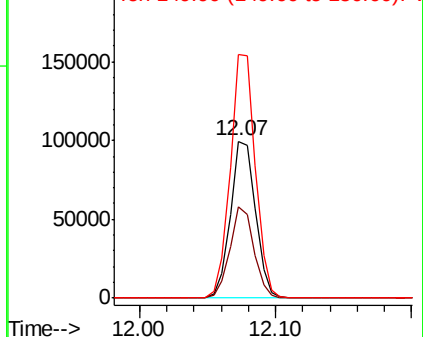


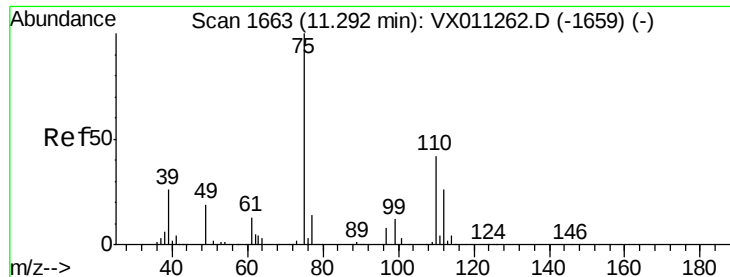
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011430.D
Acq: 11 Aug 2019 14:42

Tgt Ion:152 Resp: 127768
Ion Ratio Lower Upper
152 100
115 55.8 40.0 119.9
150 155.2 0.0 350.4



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: 26.673 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

Instrument :

MSVOA_X

ClientSampled :

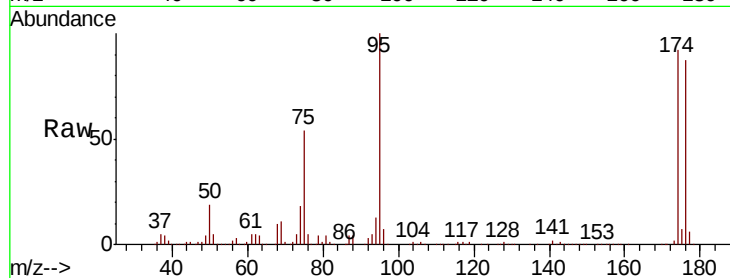
2S-F1-(1)

Tgt Ion: 75 Resp: 62062

Ion Ratio Lower Upper

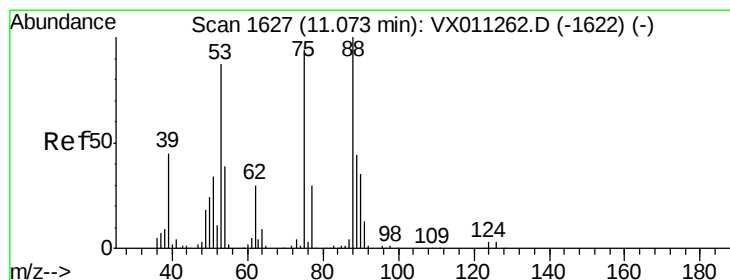
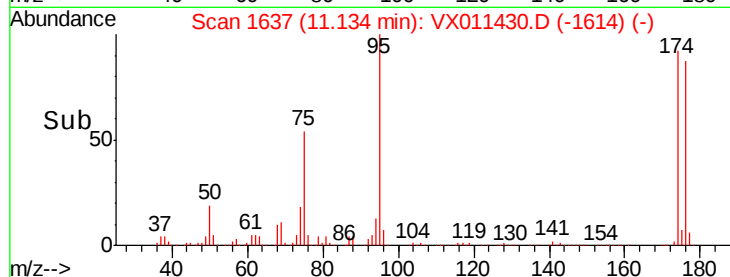
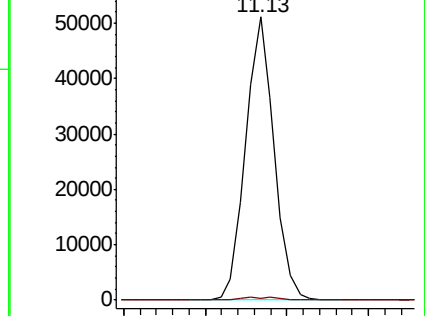
75 100

77 1.5 21.1 63.4#



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: 69.301 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011430.D

Acq: 11 Aug 2019 14:42

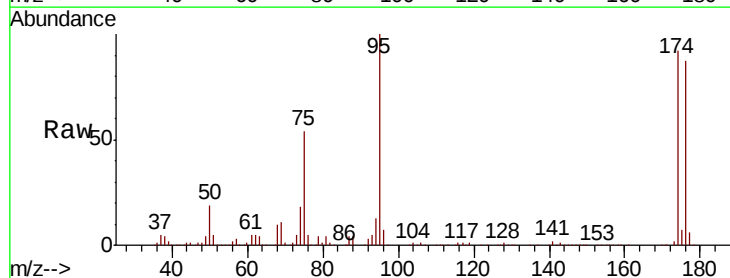
Tgt Ion: 75 Resp: 62062

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

