

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004627.D
 Acq On : 17 Sep 2018 19:05
 Operator : JC/MD
 Sample : PB112894ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:55:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	215136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	320510	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166660	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	137978	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
35) Dibromofluoromethane	5.51	113	135177	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.71	98	456586	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
62) 4-Bromofluorobenzene	11.14	95	159171	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	

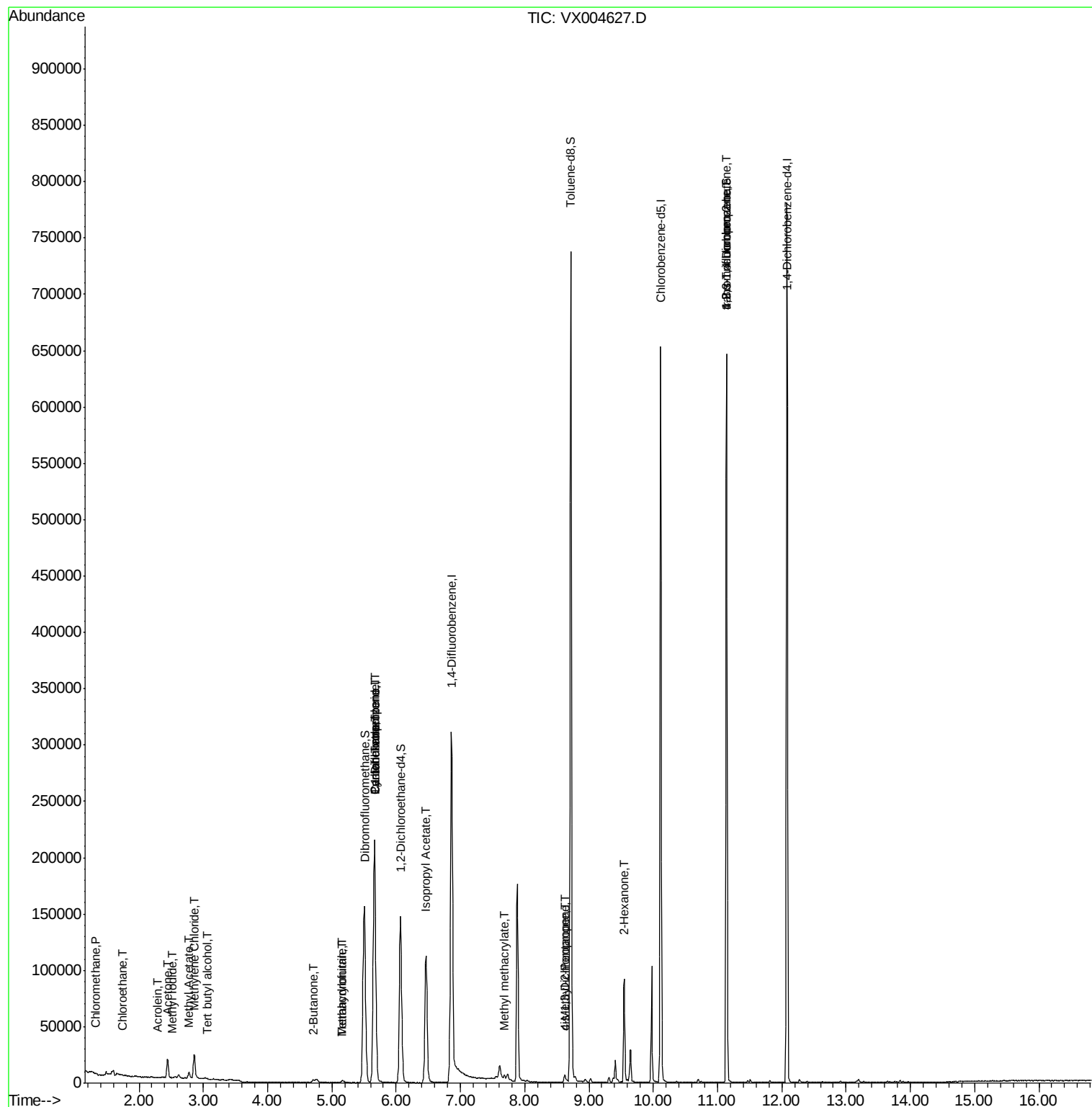
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	567	0.20	ug/l	95
5) Bromomethane	1.66	94	1079	Below Cal		93
6) Chloroethane	1.75	64	537	0.29	ug/l #	69
10) Methyl Iodide	2.51	142	560	4.44	ug/l #	80
11) Tert butyl alcohol	3.07	59	234	0.35	ug/l	96
13) Acrolein	2.29	56	98	0.38	ug/l #	74
16) Acetone	2.44	43	17889	13.21	ug/l	96
18) Methyl Acetate	2.78	43	6911	1.82	ug/l	99
20) Methylene Chloride	2.86	84	10555	3.80	ug/l	97
25) 2-Butanone	4.70	43	4575	2.12	ug/l	90
29) Tetrahydrofuran	5.16	42	1576	1.21	ug/l #	87
31) Cyclohexane	5.66	56	3683	0.92	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13497	3.47	ug/l #	46
38) Carbon Tetrachloride	5.66	117	18922	4.98	ug/l #	15
41) Methacrylonitrile	5.16	41	924	0.38	ug/l #	46
43) Isopropyl Acetate	6.46	43	146128	24.86	ug/l	99
48) Methyl methacrylate	7.68	41	5582	1.92	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2407	0.58	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	1020	0.26	ug/l #	67
59) 2-Hexanone	9.55	43	9758	3.07	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	74411	22.19	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74411	70.74	ug/l #	10

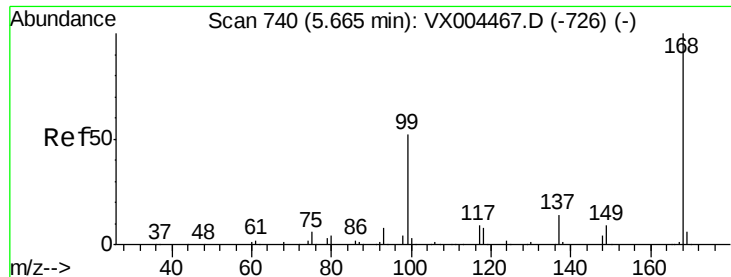
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

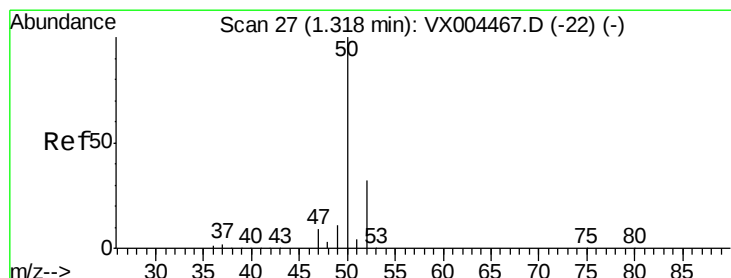
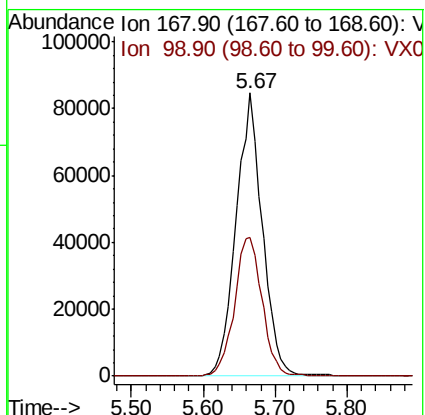
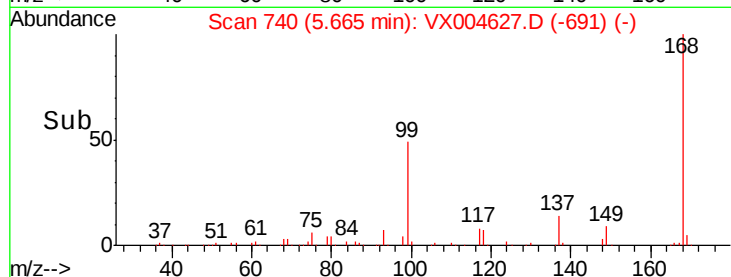
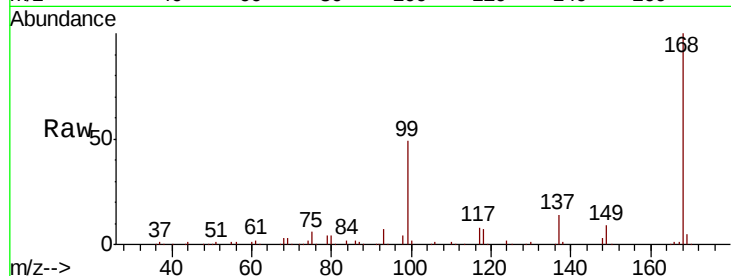
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 215136

Ion Ratio Lower Upper

168 100

99 49.0 39.9 59.9



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004627.D

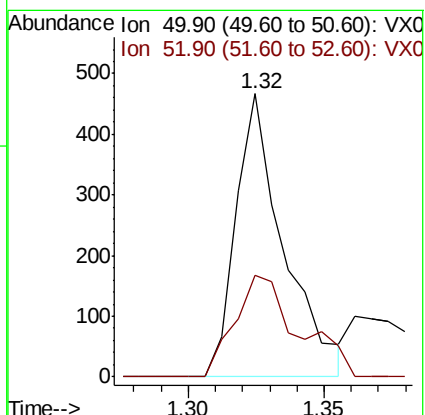
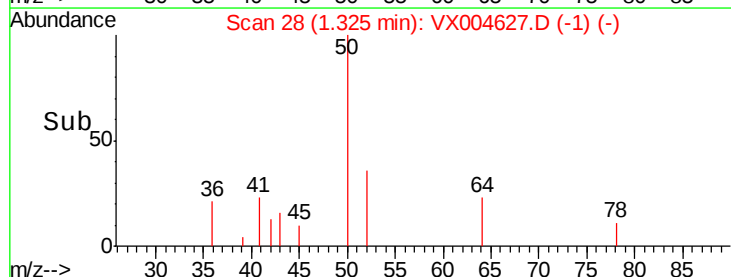
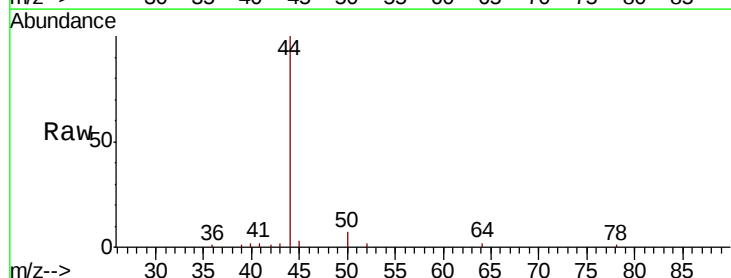
Acq: 17 Sep 2018 19:05

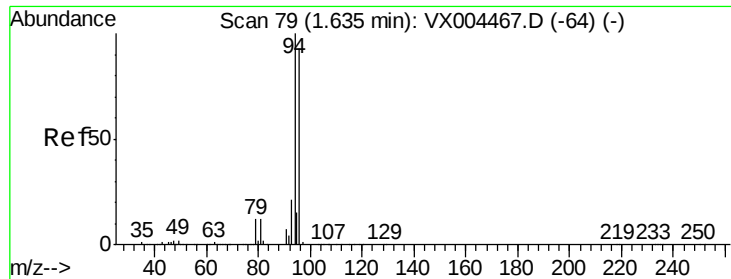
Tgt Ion: 50 Resp: 567

Ion Ratio Lower Upper

50 100

52 35.8 26.2 39.2





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :

MSVOA_X

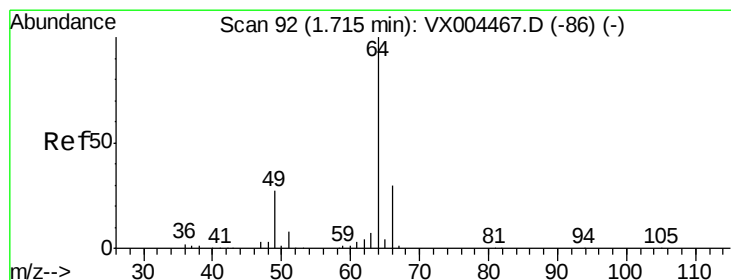
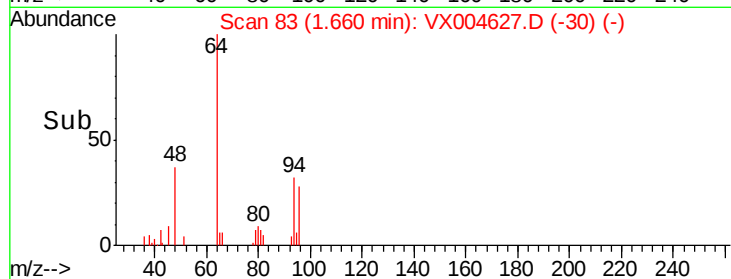
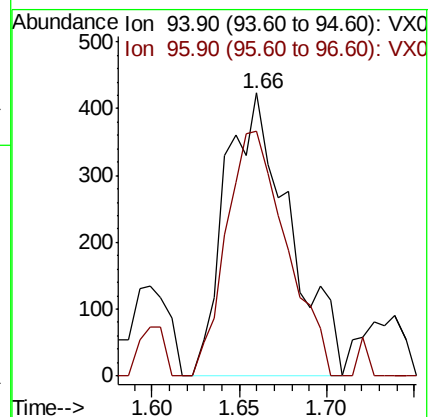
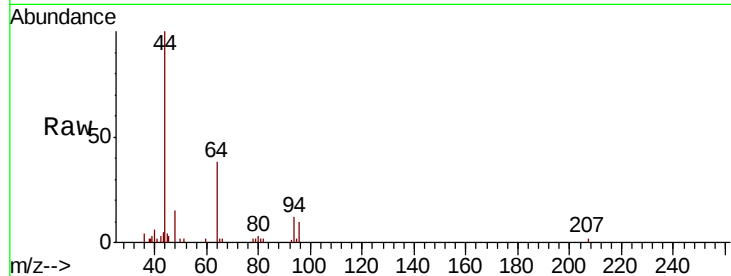
ClientSampleId :

Tot Ion: 94 Resp: 1079

Ion Ratio Lower Upper

94 100

96 86.8 74.5 111.7



#6

Chloroethane

Concen: 0.29 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX004627.D

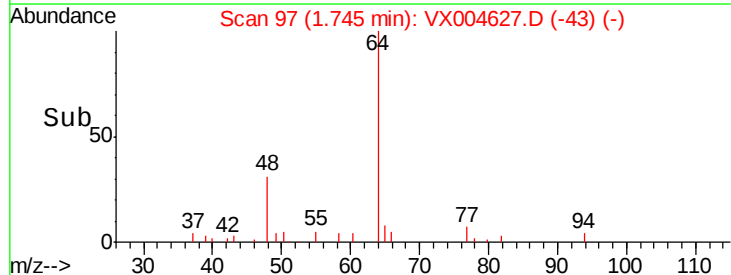
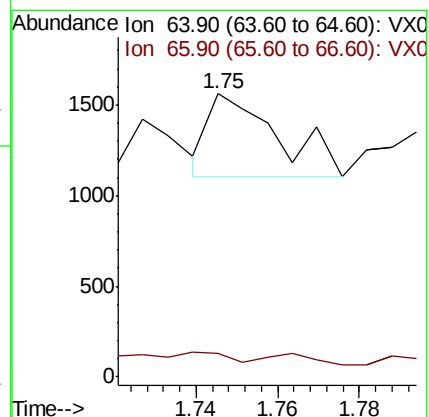
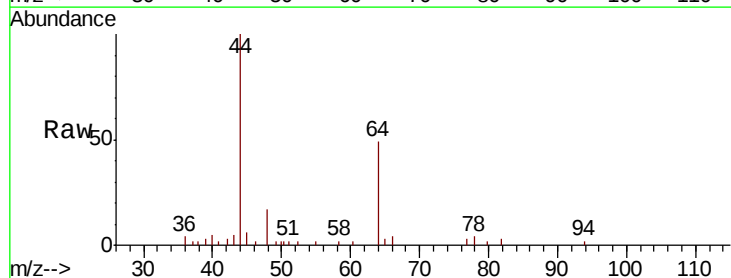
Acq: 17 Sep 2018 19:05

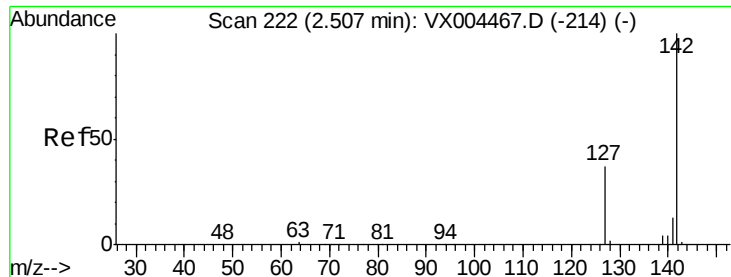
Tgt Ion: 64 Resp: 537

Ion Ratio Lower Upper

64 100

66 13.6 24.6 36.8#

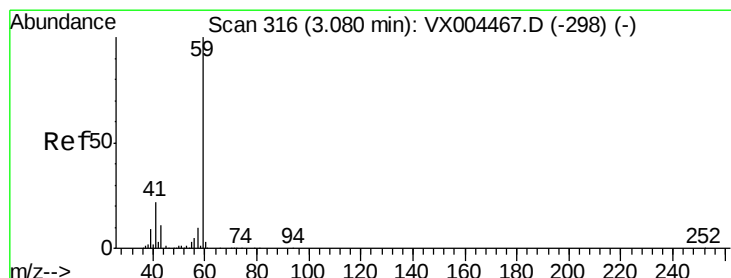
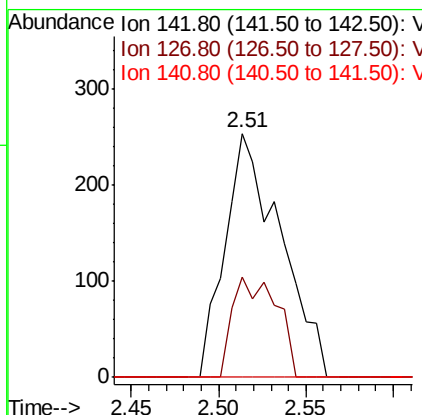
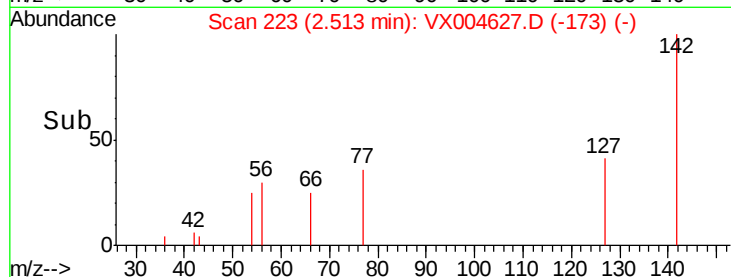
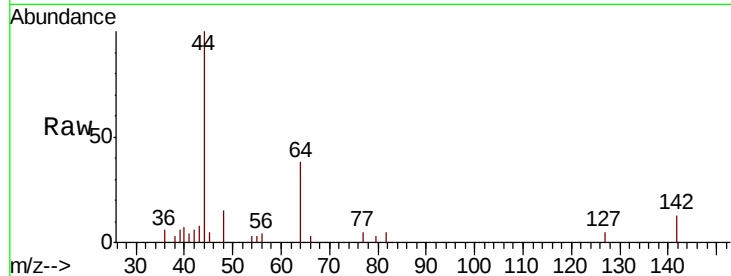




#10
Methvl Iodide
Concen: 4.44 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

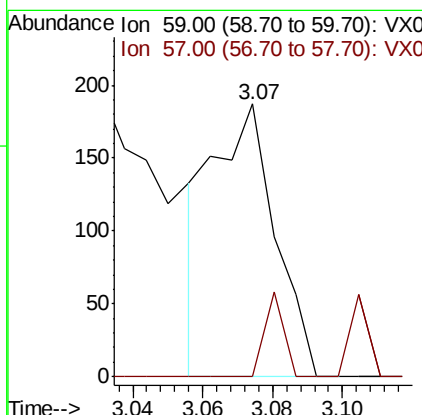
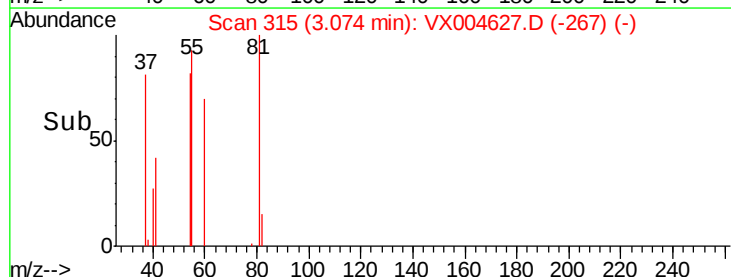
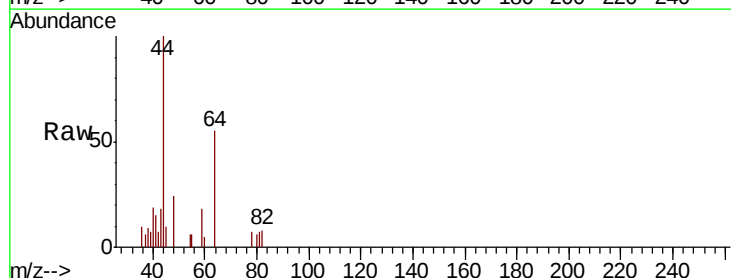
Instrument :
MSVOA_X
ClientSampleId :

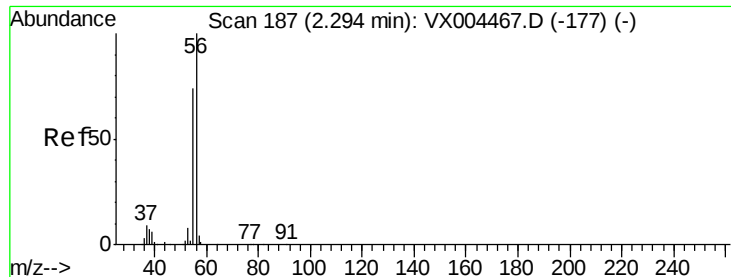
Tot Ion:142 Resp: 560
Ion Ratio Lower Upper
142 100
127 32.7 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.35 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion: 59 Resp: 234
Ion Ratio Lower Upper
59 100
57 9.0 8.2 12.4





#13

Acrolein

Concen: 0.38 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :

MSVOA_X

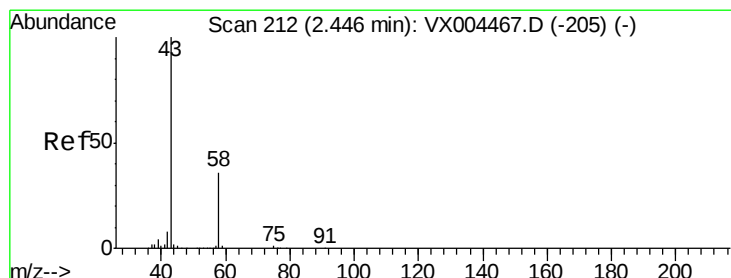
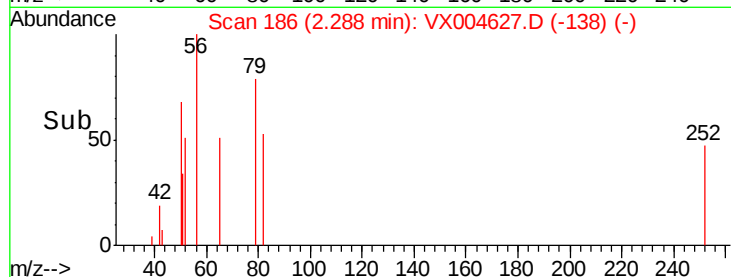
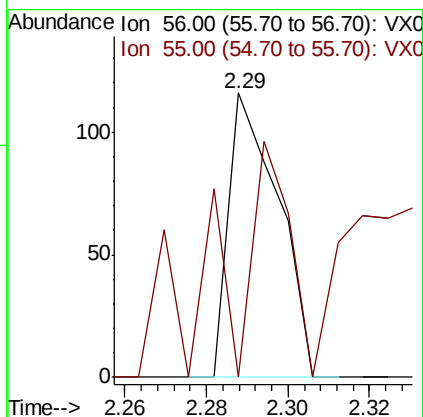
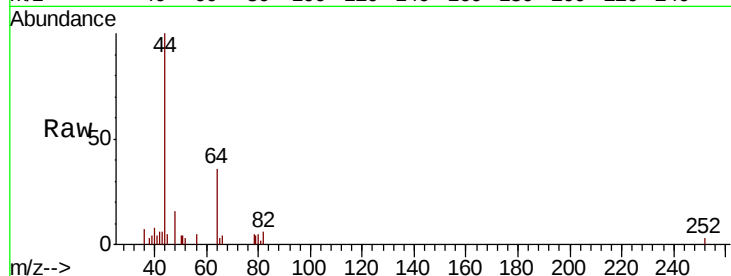
ClientSampleId :

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 89.8 54.7 82.1#



#16

Acetone

Concen: 13.21 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004627.D

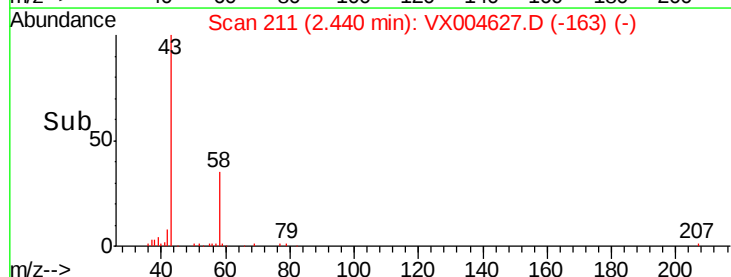
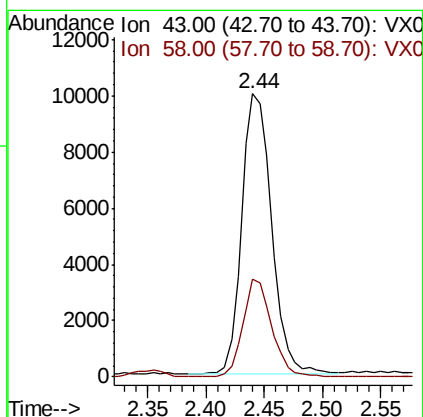
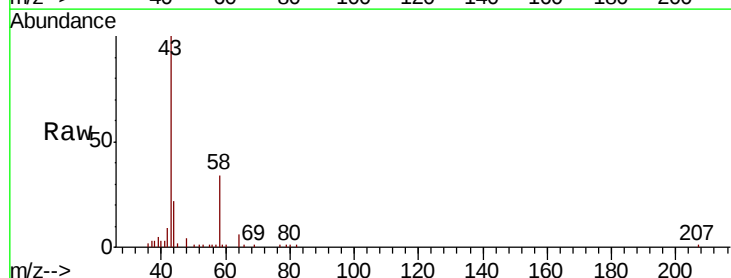
Acq: 17 Sep 2018 19:05

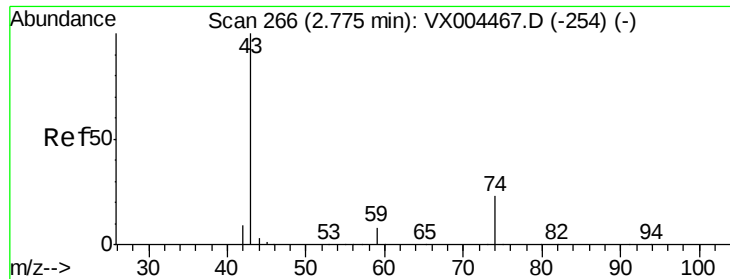
Tgt Ion: 43 Resp: 17889

Ion Ratio Lower Upper

43 100

58 34.8 26.2 39.4

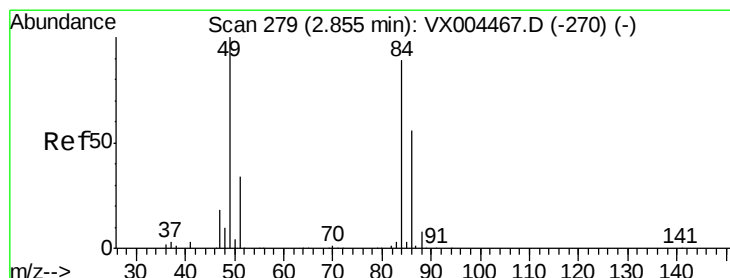
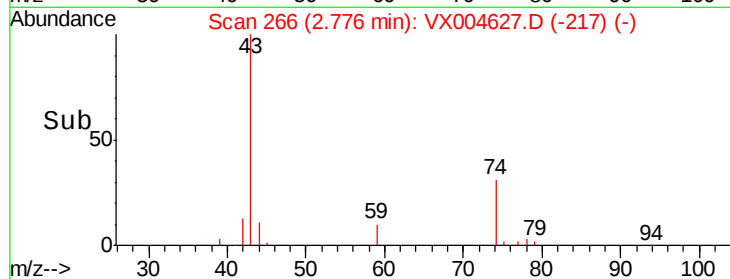
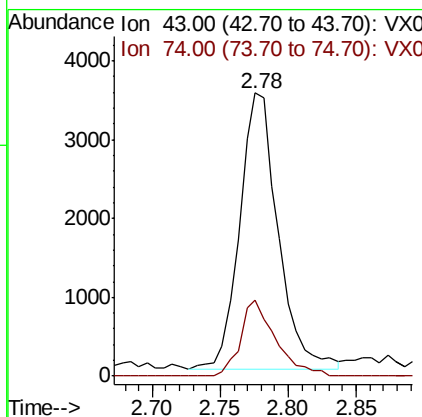
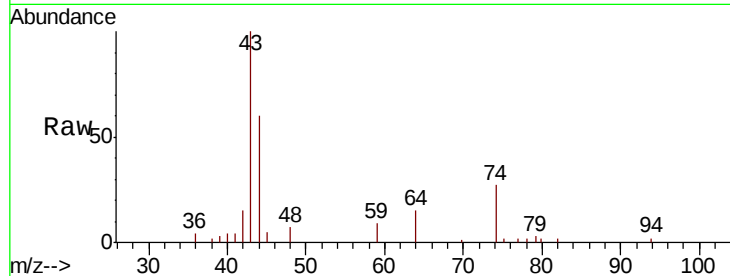




#18
Methyl Acetate
Concen: 1.82 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

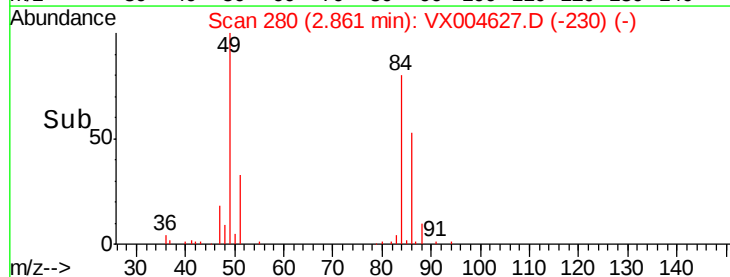
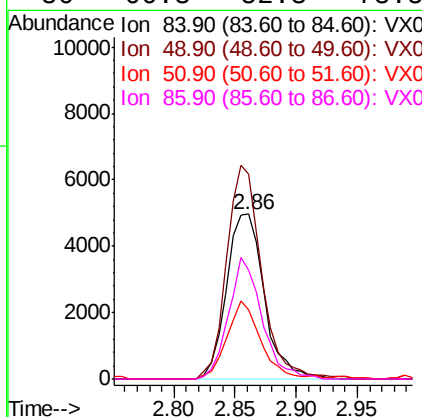
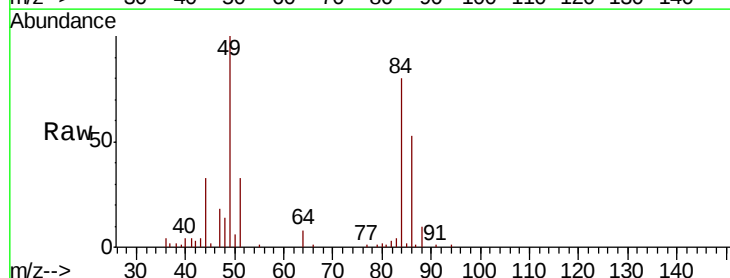
Instrument :
MSVOA_X
ClientSampled :

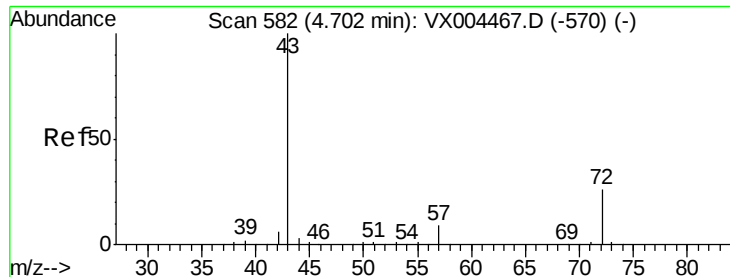
Tot Ion: 43 Resp: 6911
Ion Ratio Lower Upper
43 100
74 25.0 19.4 29.2



#20
Methylene Chloride
Concen: 3.80 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion: 84 Resp: 10555
Ion Ratio Lower Upper
84 100
49 124.3 101.2 151.8
51 41.6 29.5 44.3
86 66.3 52.3 78.5





#25

2-Butanone

Concen: 2.12 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

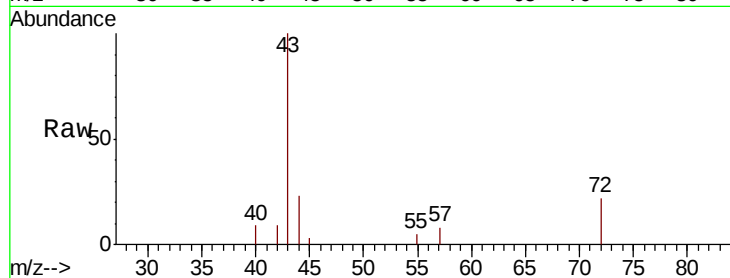
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 4575

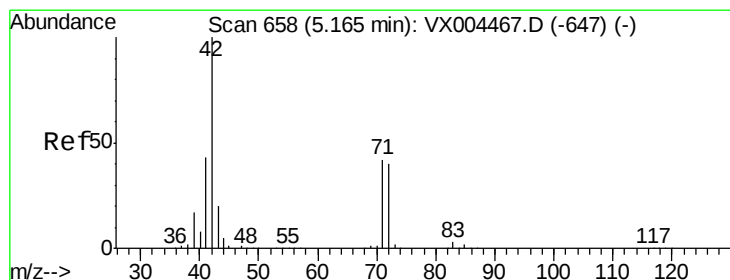
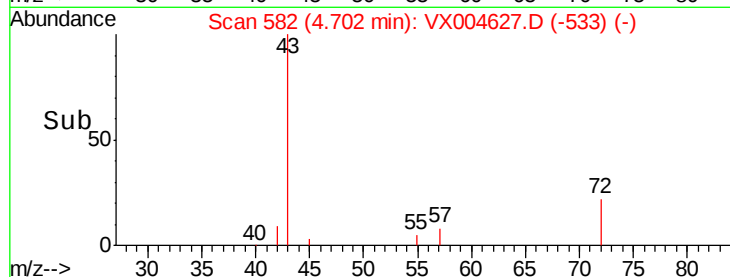
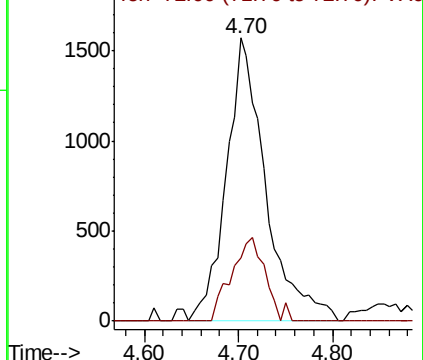
Ion Ratio Lower Upper

43 100

72 22.4 22.0 33.0



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



#29

Tetrahydrofuran

Concen: 1.21 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

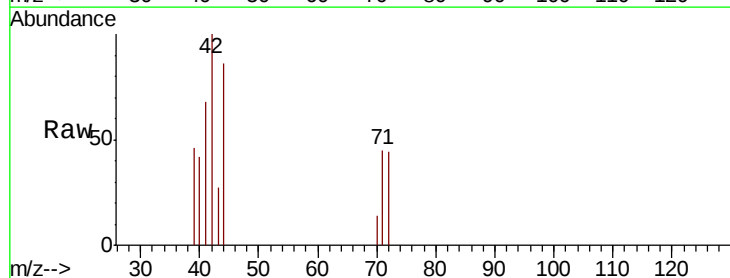
Tgt Ion: 42 Resp: 1576

Ion Ratio Lower Upper

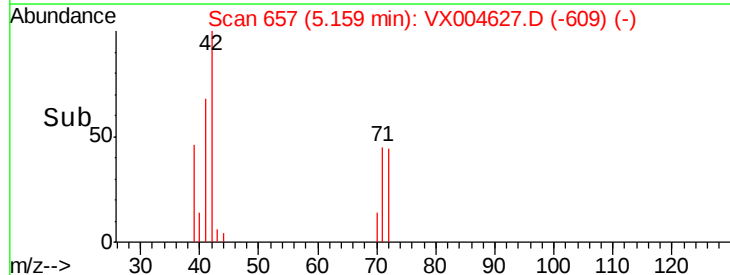
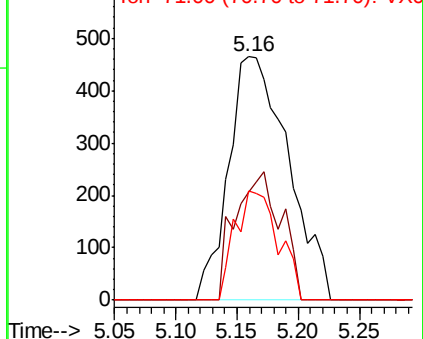
42 100

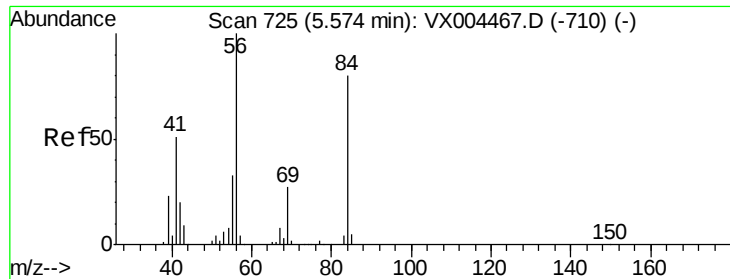
72 40.4 37.4 56.0

71 32.6 34.5 51.7#



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

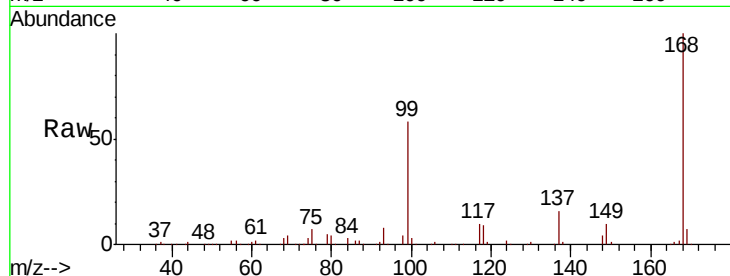




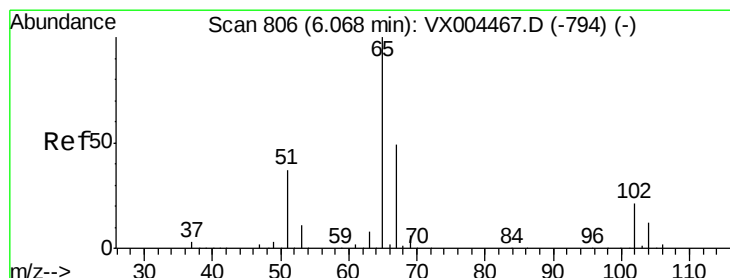
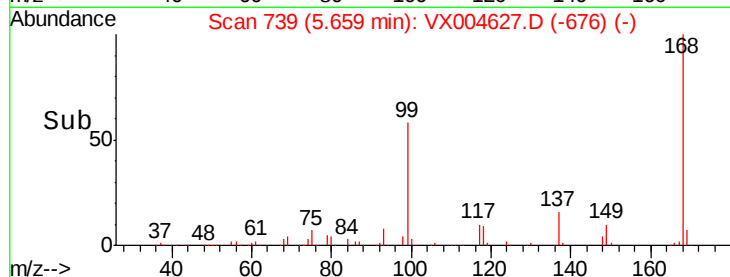
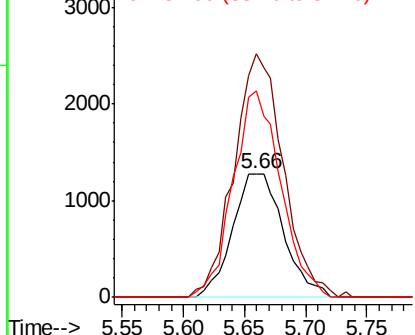
#31
Cyclohexane
Concen: 0.92 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3683
Ion Ratio Lower Upper
56 100
69 196.9 25.4 38.2#
84 167.2 71.4 107.2#

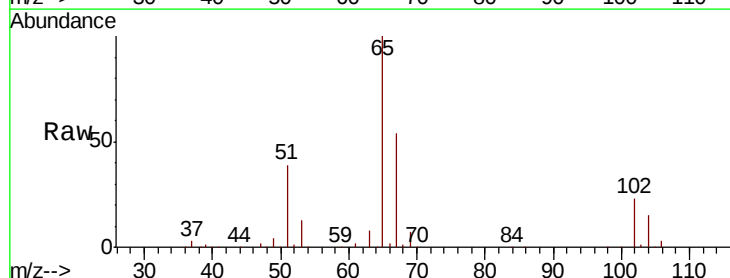


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

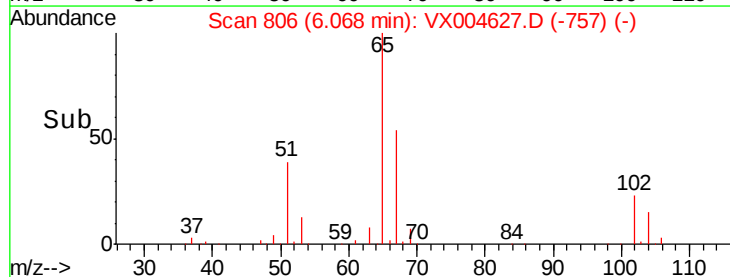
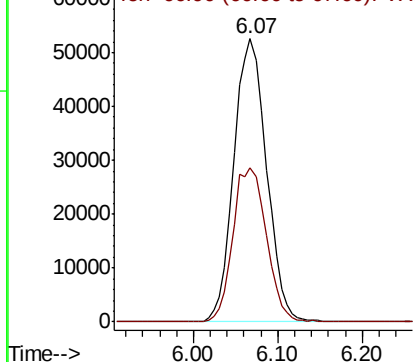


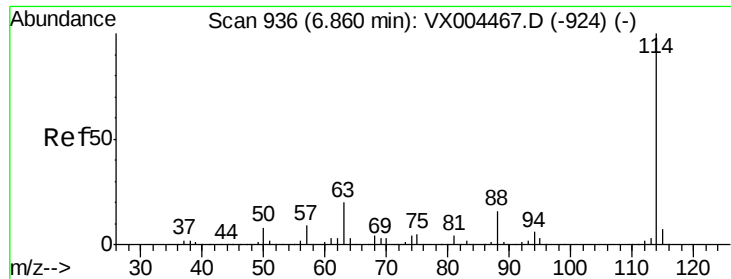
#33
1,2-Dichloroethane-d4
Concen: 49.74 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion: 65 Resp: 137978
Ion Ratio Lower Upper
65 100
67 55.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

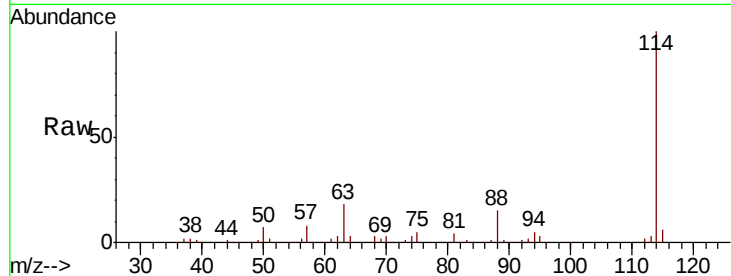




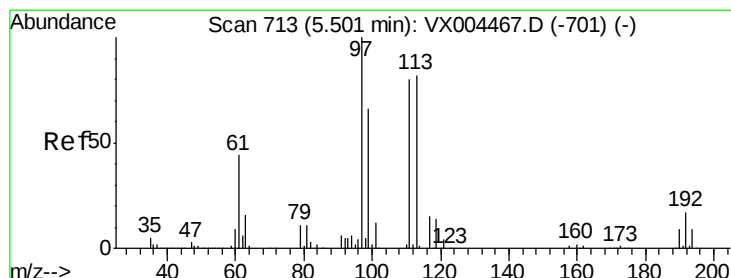
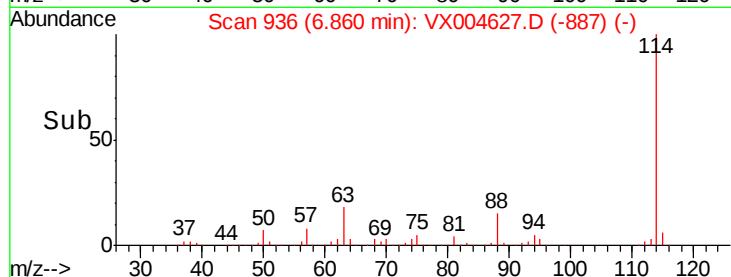
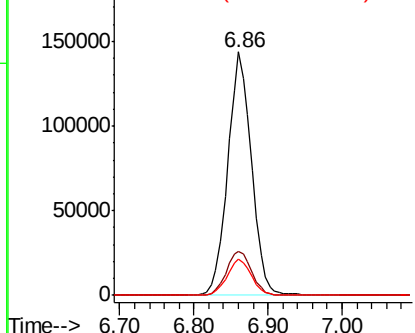
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004627.D
 Acq: 17 Sep 2018 19:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	39.0
88	14.7	0.0	30.4

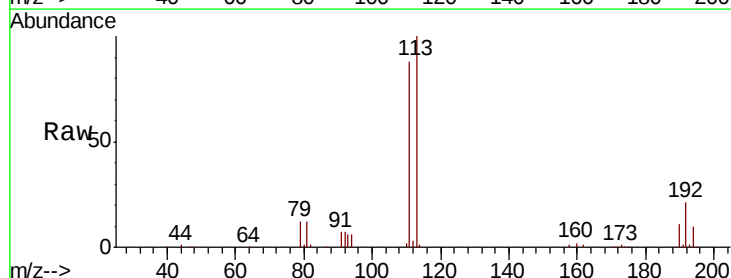


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

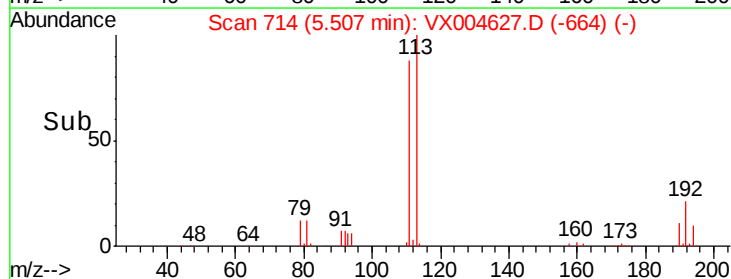
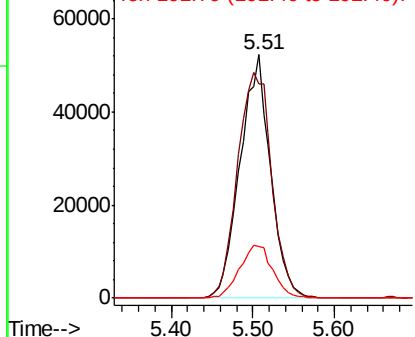


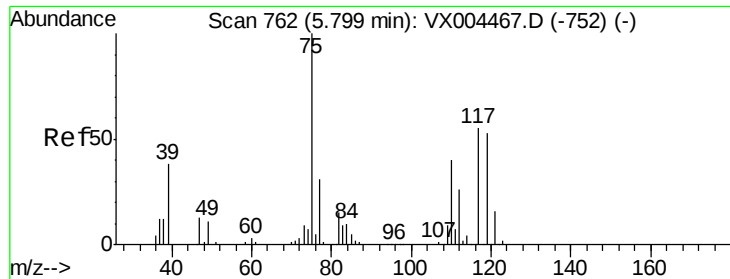
#35
 Dibromofluoromethane
 Concen: 46.09 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004627.D
 Acq: 17 Sep 2018 19:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.4	123.6
192	23.7	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: 3.47 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :

MSVOA_X

ClientSampleId :

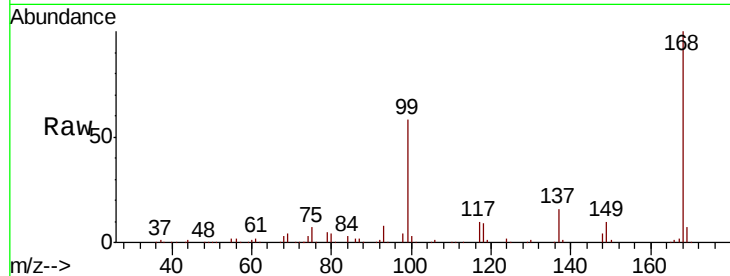
Tot Ion: 75 Resp: 13497

Ion Ratio Lower Upper

75 100

110 4.6 18.0 54.0#

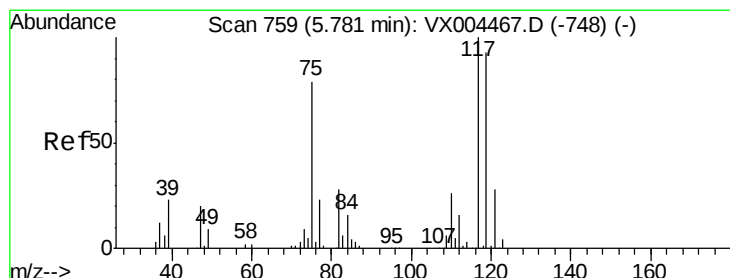
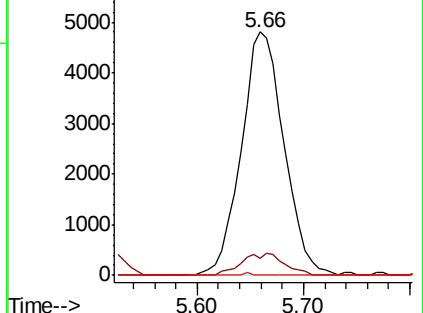
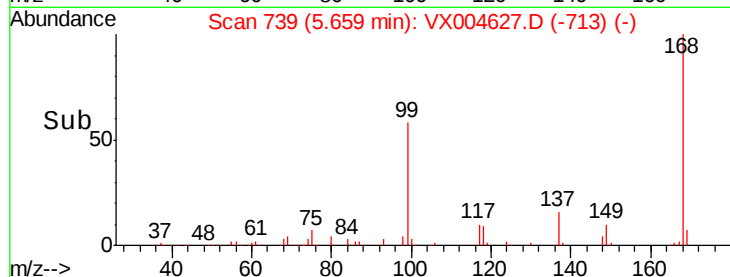
77 0.2 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX004467.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX004467.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX004467.D (-752) (-)



#38

Carbon Tetrachloride

Concen: 4.98 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

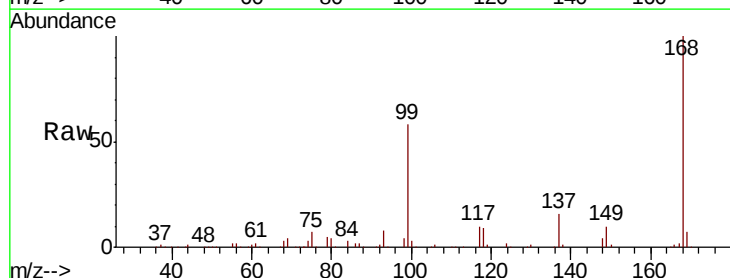
Tgt Ion: 117 Resp: 18922

Ion Ratio Lower Upper

117 100

119 5.5 78.8 118.2#

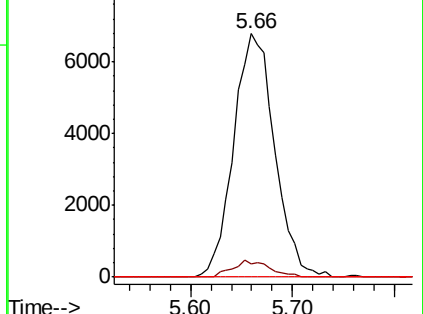
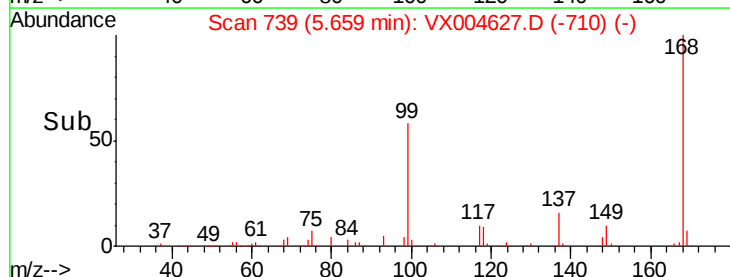
121 0.0 24.9 37.3#

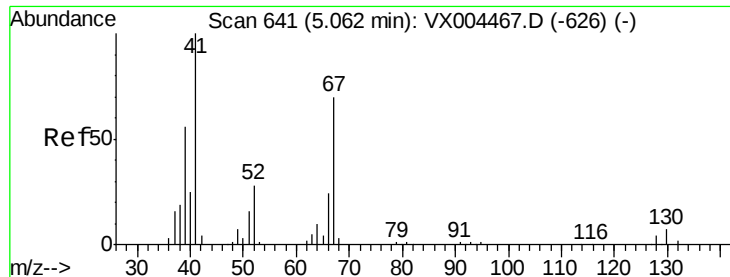


Abundance Ion 116.80 (116.50 to 117.50): VX004467.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX004467.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX004467.D (-748) (-)

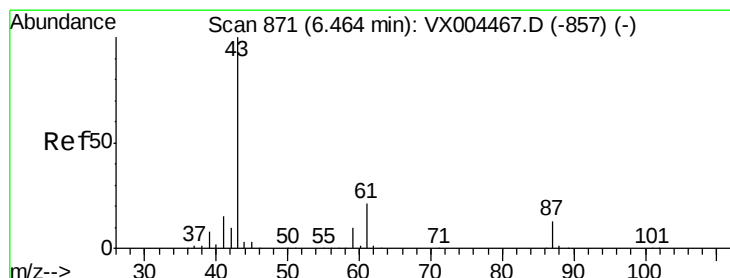
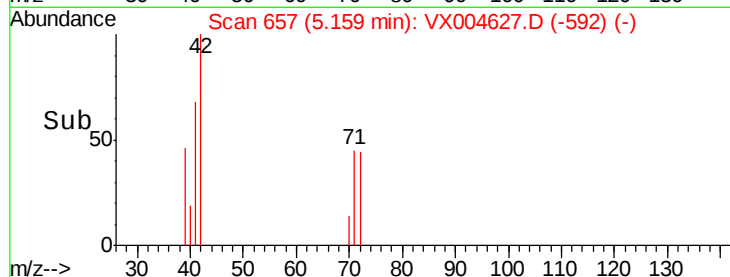
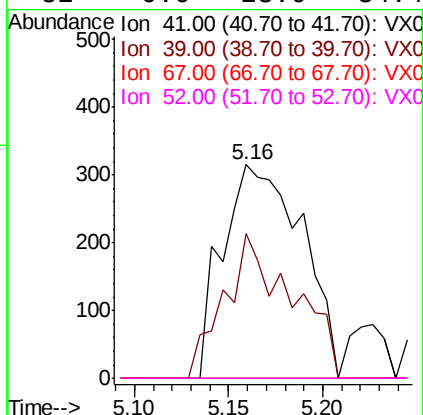
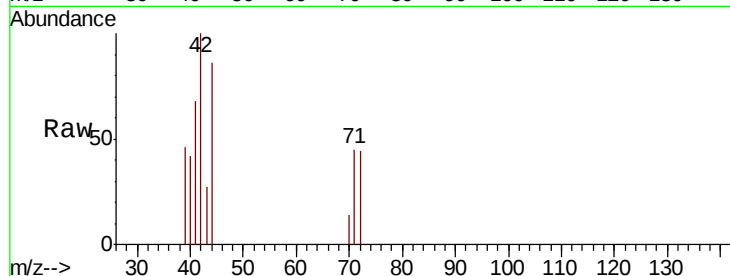




#41
Methacrylonitrile
Concen: 0.38 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

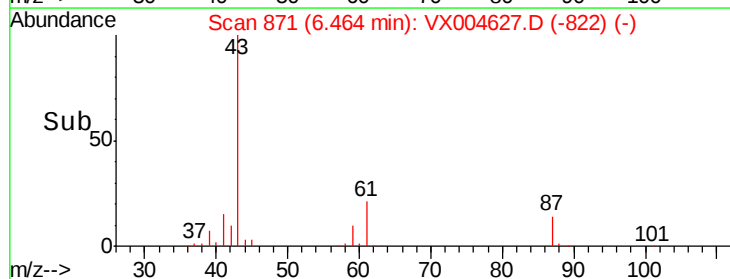
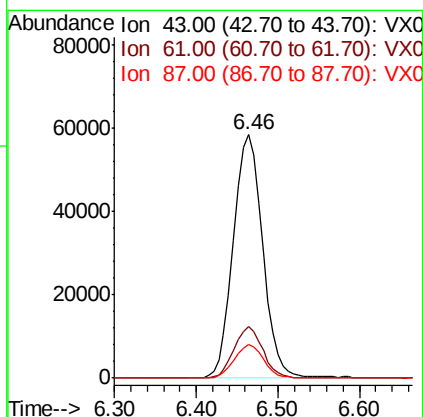
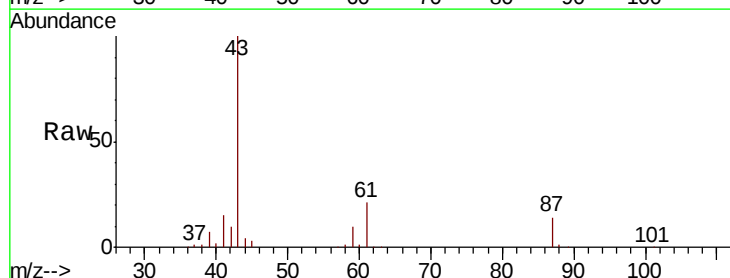
Instrument :
MSVOA_X
ClientSampled :

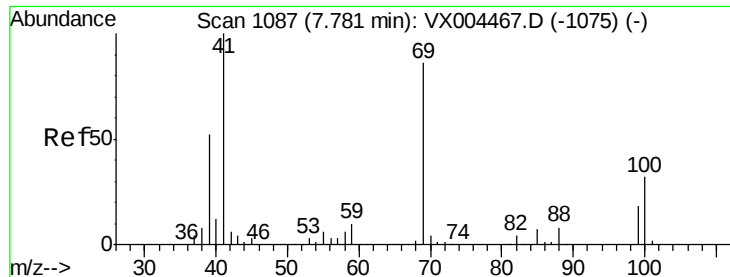
Tot Ion:	41	Resp:	924
Ion	Ratio	Lower	Upper
41	100		
39	57.7	42.4	63.6
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 24.86 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion:	43	Resp:	146128
Ion	Ratio	Lower	Upper
43	100		
61	20.6	17.0	25.4
87	13.7	11.4	17.2





#48

Methvl methacrylate

Concen: 1.92 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :
MSVOA_X
ClientSampleId :

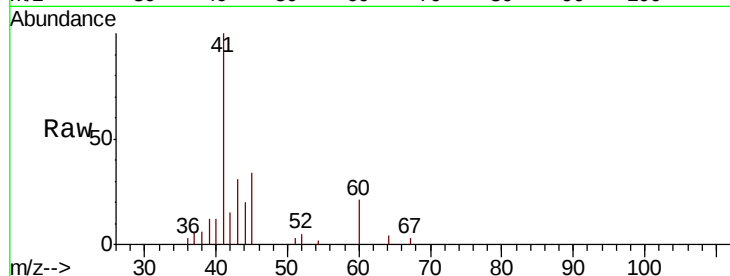
Tot Ion: 41 Resp: 5582

Ion Ratio Lower Upper

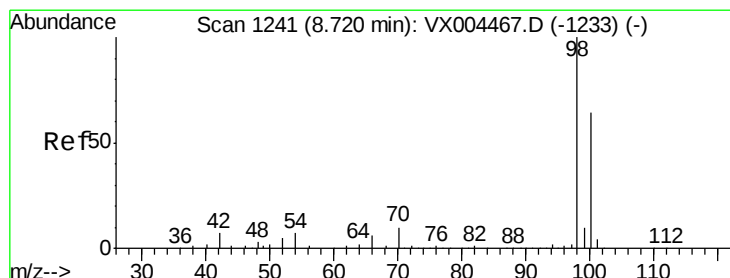
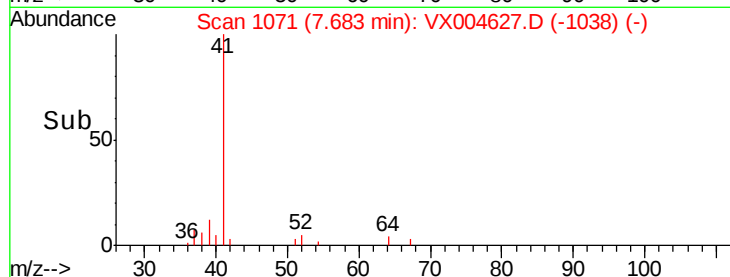
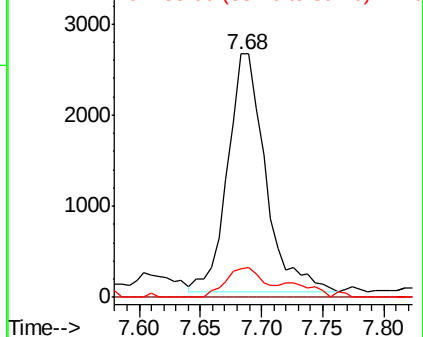
41 100

69 0.0 70.2 105.4#

39 12.8 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 46.42 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004627.D

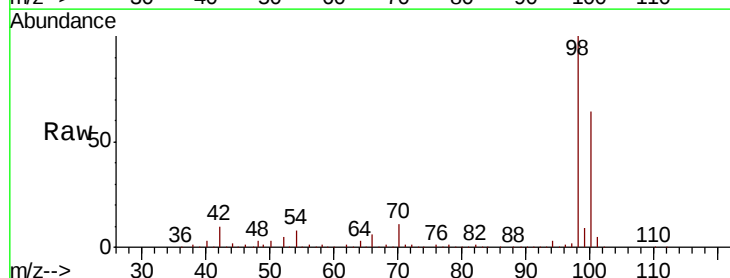
Acq: 17 Sep 2018 19:05

Tgt Ion: 98 Resp: 456586

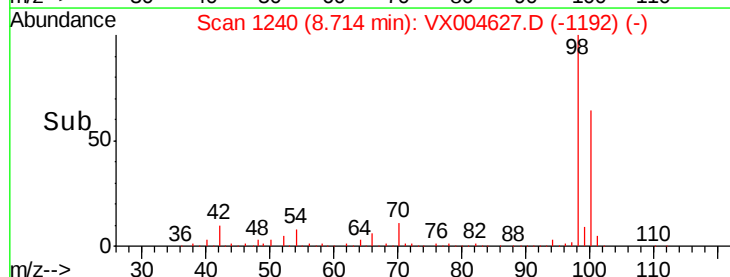
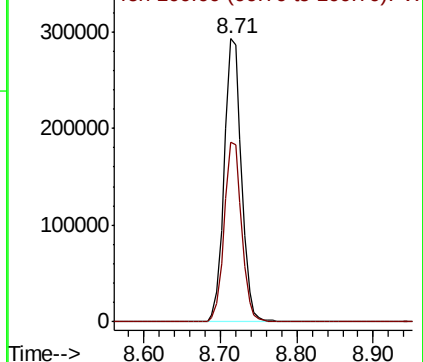
Ion Ratio Lower Upper

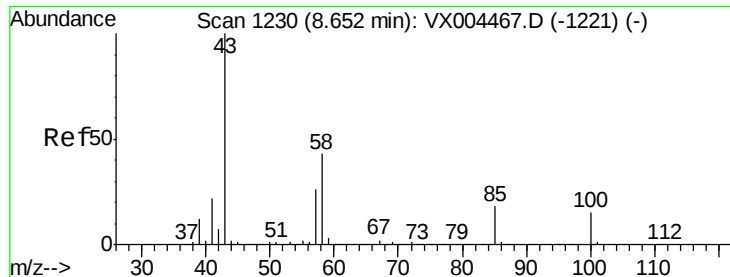
98 100

100 64.0 52.9 79.3



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: 0.58 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :

MSVOA_X

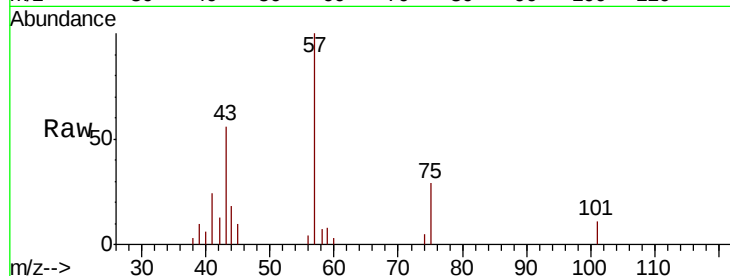
ClientSampleId :

Tot Ion: 43 Resp: 2407

Ion Ratio Lower Upper

43 100

58 9.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

1500

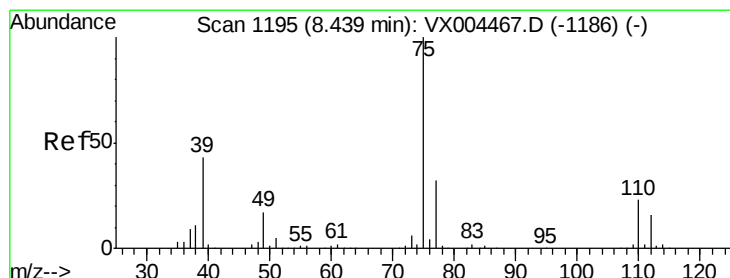
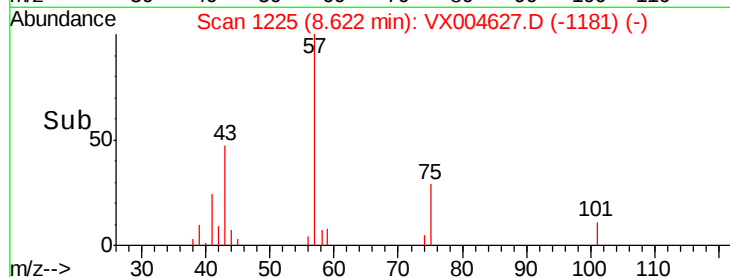
1000

500

0

8.55 8.60 8.65

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.26 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

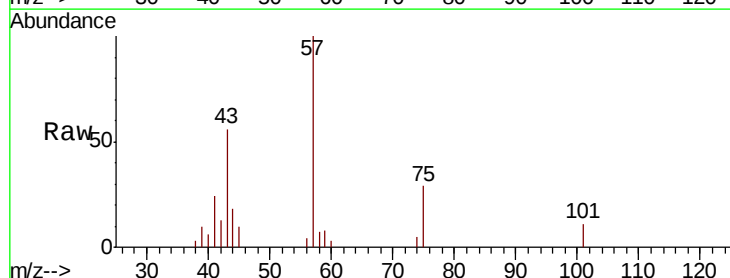
Tgt Ion: 75 Resp: 1020

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 35.7 36.4 54.6#



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

8.62

800

600

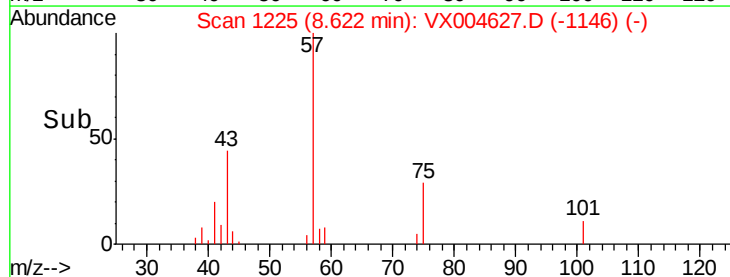
400

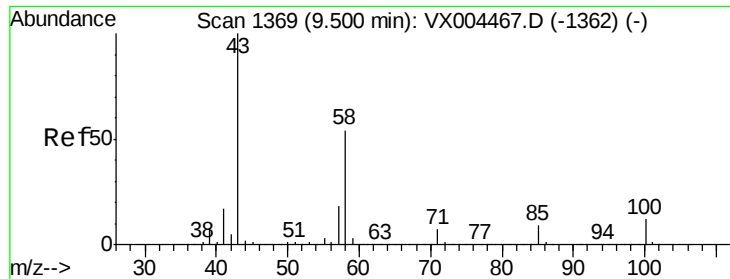
200

0

8.60 8.65

Time-->

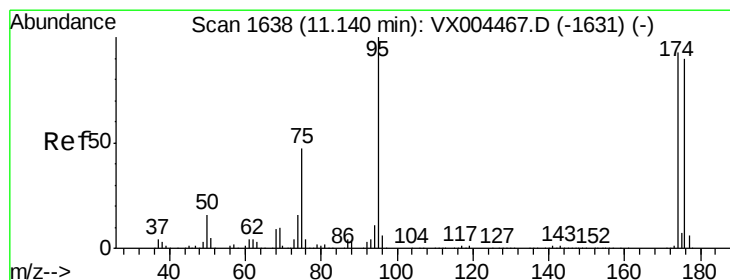
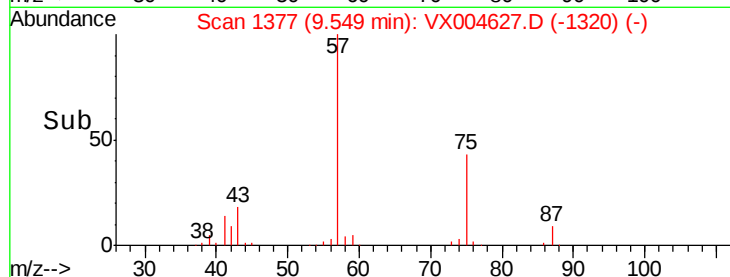
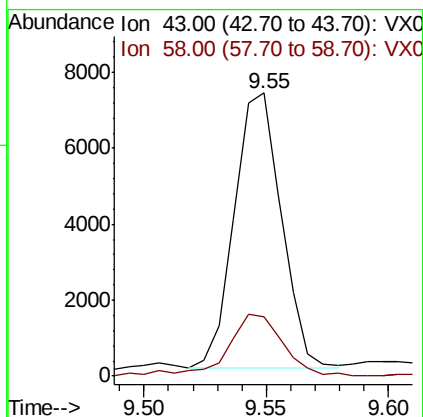
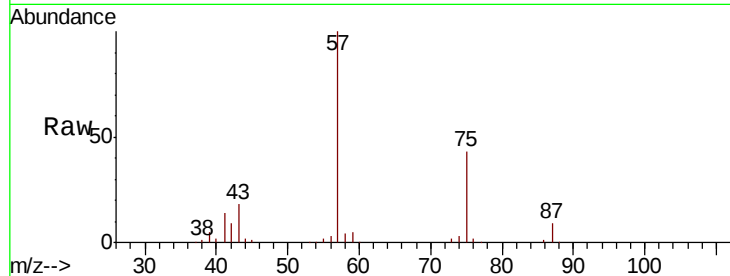




#59
2-Hexanone
Concen: 3.07 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

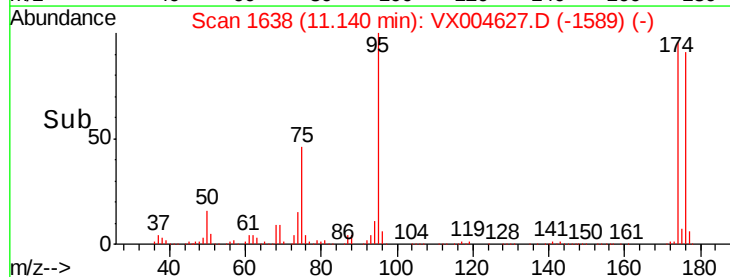
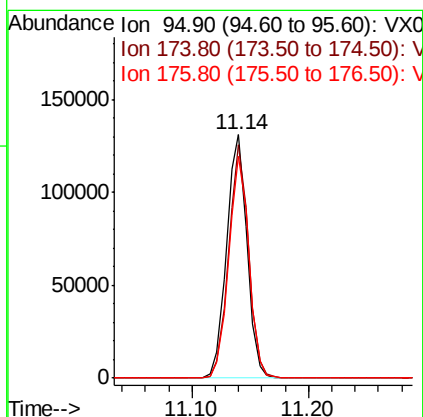
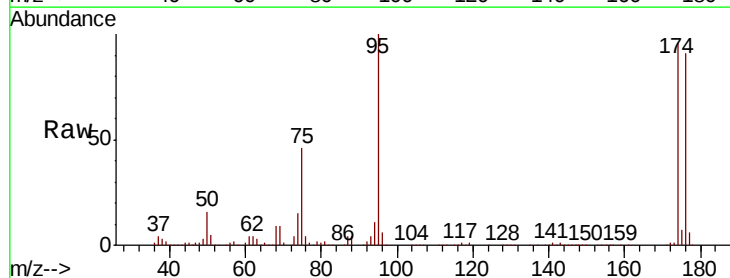
Instrument :
MSVOA_X
ClientSampleId :

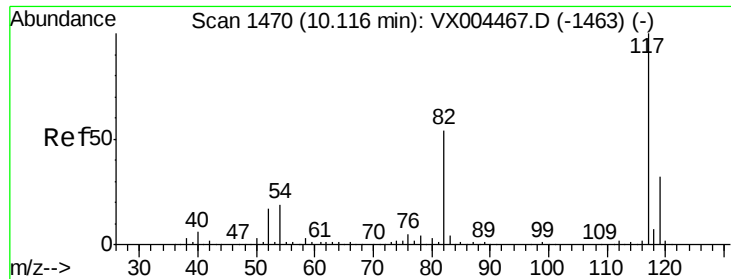
Tot Ion: 43 Resp: 9758
Ion Ratio Lower Upper
43 100
58 26.7 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.34 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion: 95 Resp: 159171
Ion Ratio Lower Upper
95 100
174 94.2 0.0 185.2
176 90.6 0.0 178.6

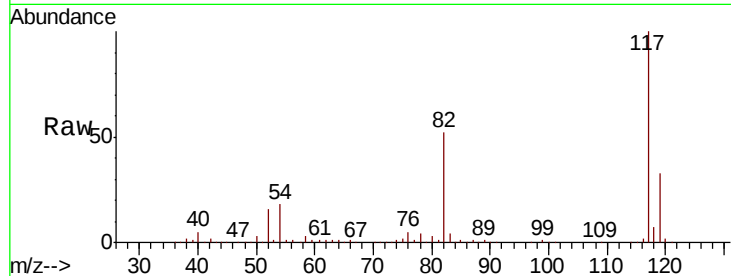




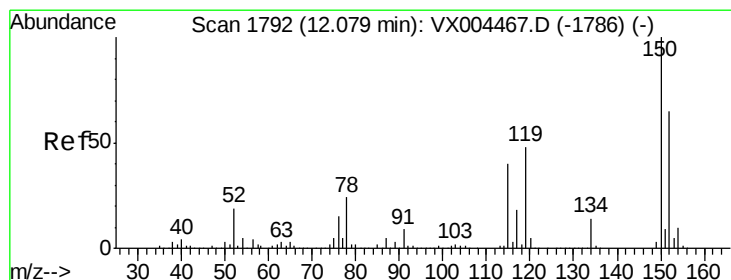
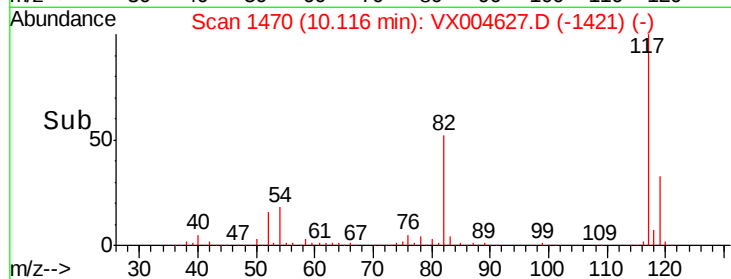
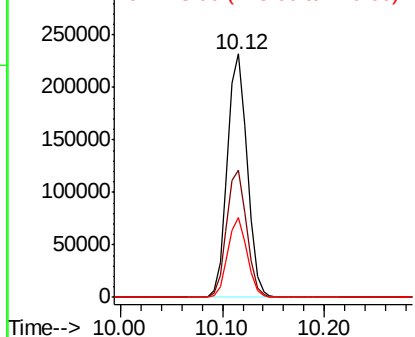
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 310497
Ion Ratio Lower Upper
117 100
82 52.4 47.8 71.6
119 32.6 29.3 43.9

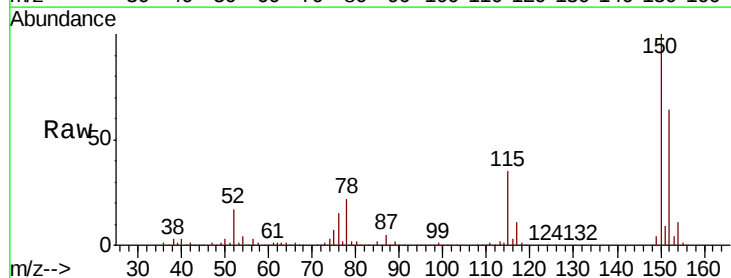


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

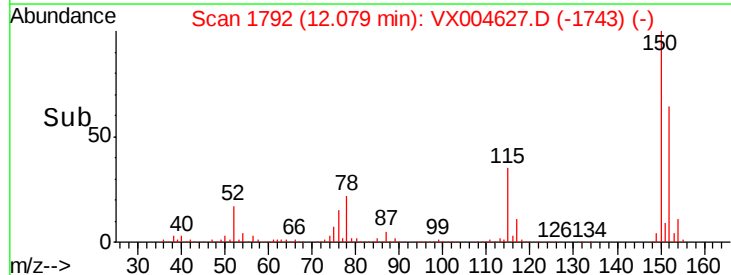
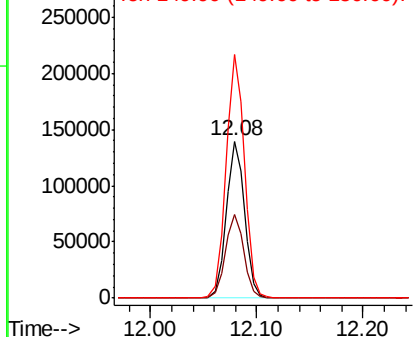


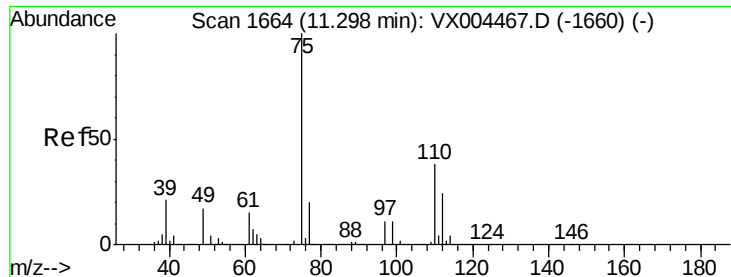
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004627.D
Acq: 17 Sep 2018 19:05

Tgt Ion:152 Resp: 166660
Ion Ratio Lower Upper
152 100
115 54.0 39.0 117.0
150 156.8 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: 22.19 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

Instrument :

MSVOA_X

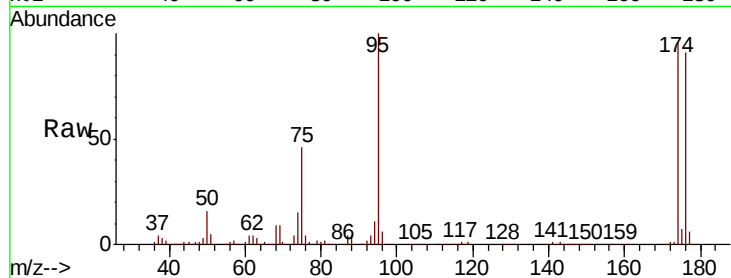
ClientSampleId :

Tot Ion: 75 Resp: 74411

Ion Ratio Lower Upper

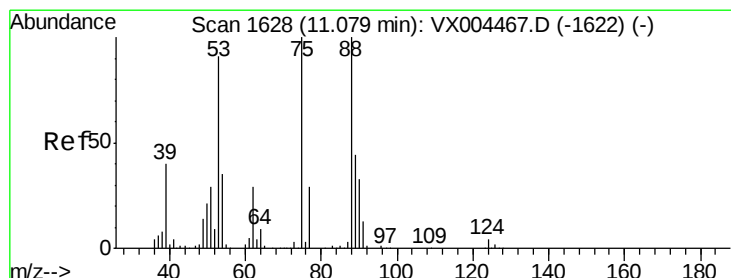
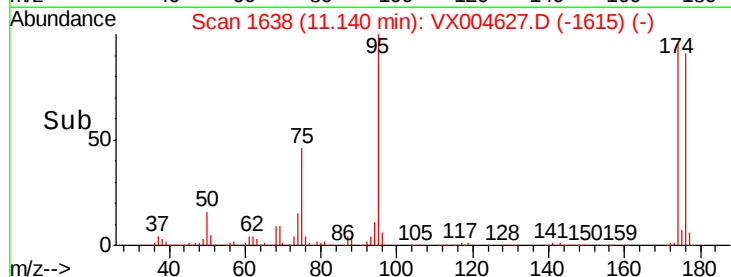
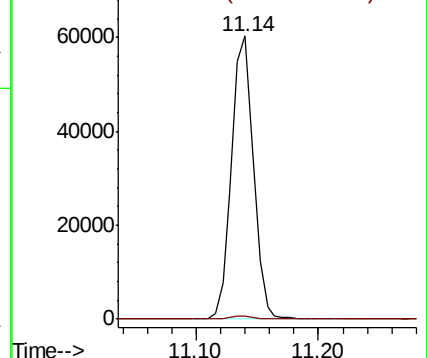
75 100

77 1.4 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: 70.74 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004627.D

Acq: 17 Sep 2018 19:05

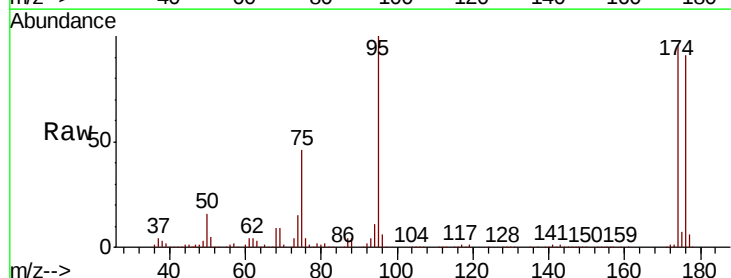
Tgt Ion: 75 Resp: 74411

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

