

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011154.D
 Acq On : 29 Jul 2019 18:32
 Operator : JC/SP
 Sample : K4026-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0679

Quant Time: Jul 30 05:08:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	176421	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	283523	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	265094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123554	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	98536	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
35) Dibromofluoromethane	5.50	113	91795	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
50) Toluene-d8	8.71	98	345223	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	11.13	95	116144	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	

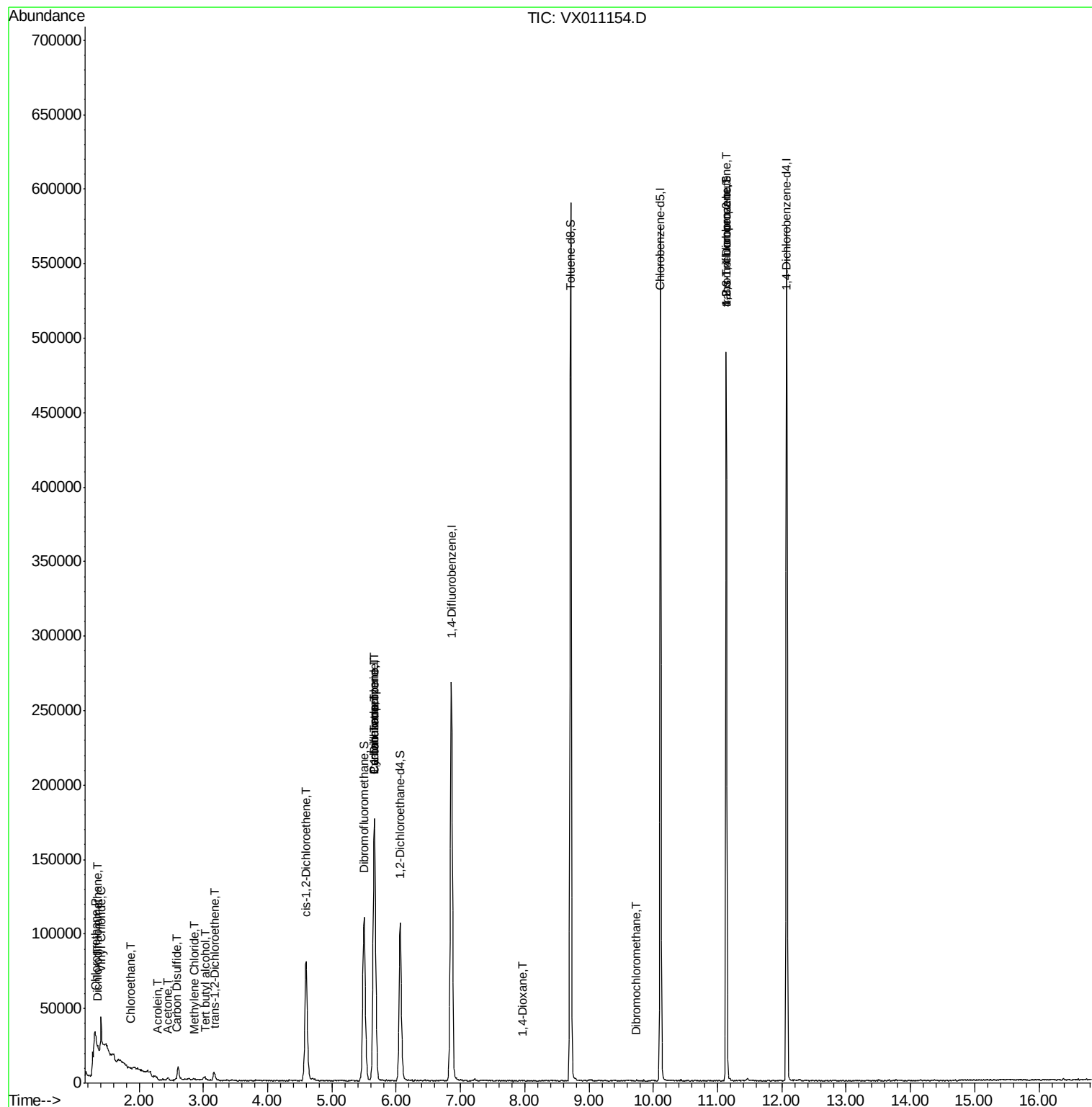
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	31	0.563	ug/l #	43
3) Chloromethane	1.33	50	1830	1.128	ug/l	92
4) Vinyl Chloride	1.41	62	13282	8.026	ug/l #	76
6) Chloroethane	1.87	64	424	0.403	ug/l #	50
11) Tert butyl alcohol	3.03	59	1443	3.301	ug/l #	81
13) Acrolein	2.29	56	104	0.412	ug/l #	15
16) Acetone	2.44	43	1889	2.228	ug/l	90
17) Carbon Disulfide	2.58	76	1671	0.415	ug/l #	88
20) Methylene Chloride	2.86	84	444	0.247	ug/l #	68
21) trans-1,2-Dichloroethene	3.18	96	2014	1.208	ug/l #	73
27) cis-1,2-Dichloroethene	4.59	96	54397	28.190	ug/l	89
31) Cyclohexane	5.67	56	3585	1.407	ug/l #	41
36) 1,1-Dichloropropene	5.67	75	12278	5.272	ug/l #	49
38) Carbon Tetrachloride	5.66	117	16192	6.672	ug/l #	18
49) 1,4-Dioxane	7.96	88	22	0.412	ug/l #	1
60) Dibromochloromethane	9.74	129	25	2.539	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	59071	26.494	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	59071	65.761	ug/l #	11

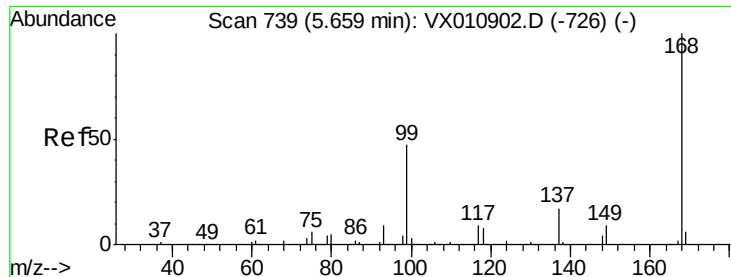
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampled :

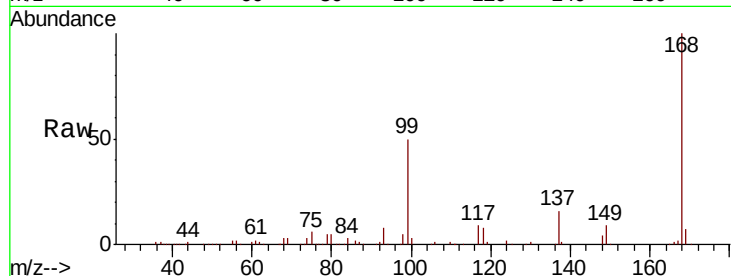
Z3-0679

Tot Ion:168 Resp: 176421

Ion Ratio Lower Upper

168 100

99 50.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

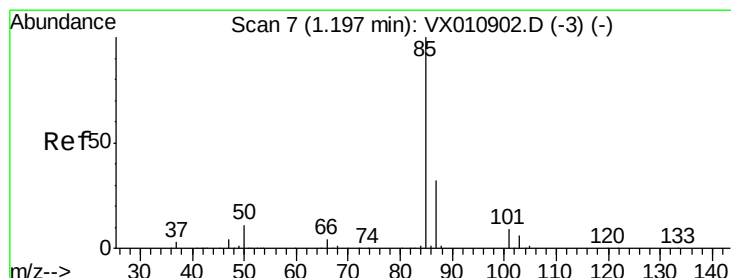
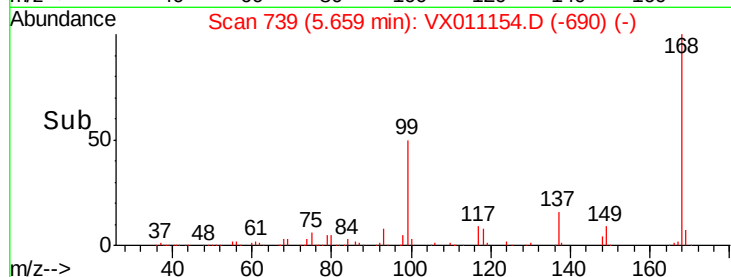
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.563 ug/l

RT: 1.36 min Scan# 34

Delta R.T. 0.17 min

Lab File: VX011154.D

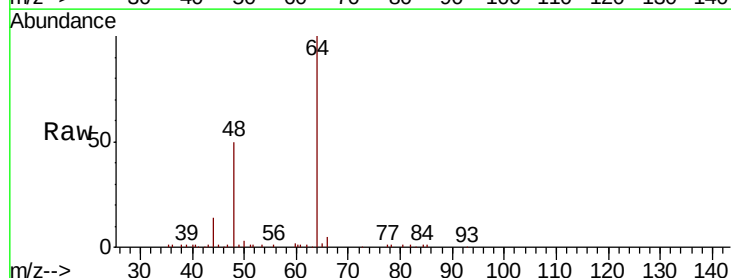
Acq: 29 Jul 2019 18:32

Tgt Ion: 85 Resp: 31

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.36

100

80

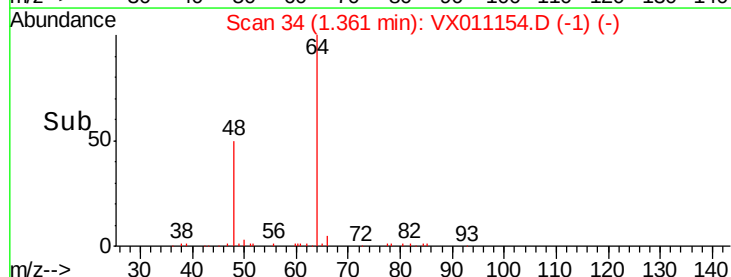
60

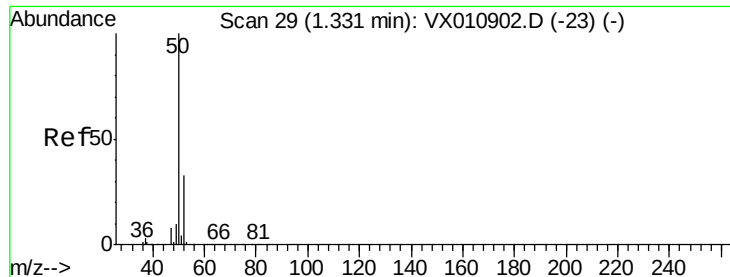
40

20

0

Time--> 1.34 1.35 1.36 1.37 1.38





#3

Chloromethane

Concen: 1.128 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

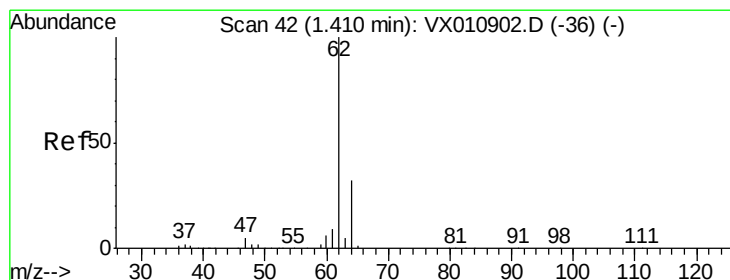
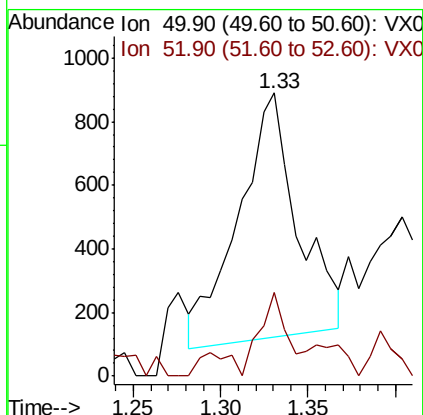
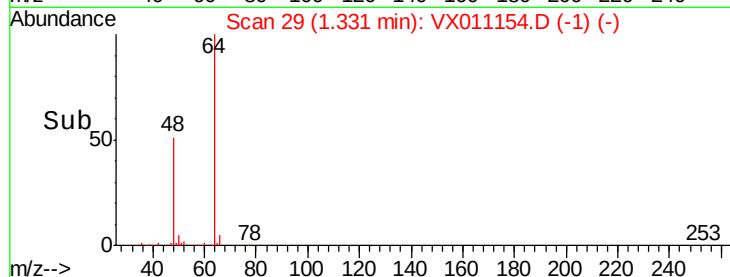
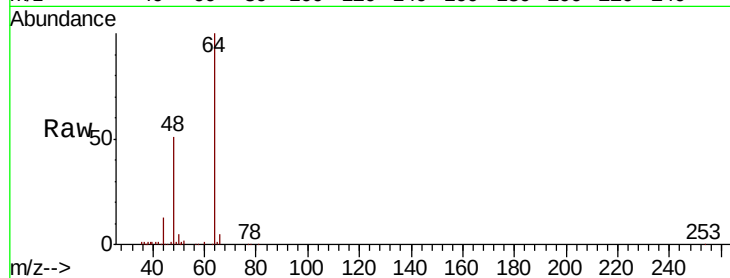
Z3-0679

Tot Ion: 50 Resp: 1830

Ion Ratio Lower Upper

50 100

52 37.6 26.4 39.6



#4

Vinyl Chloride

Concen: 8.026 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011154.D

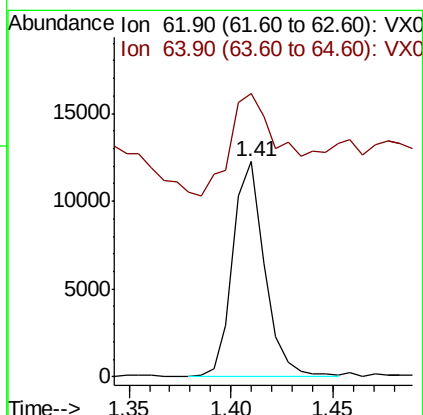
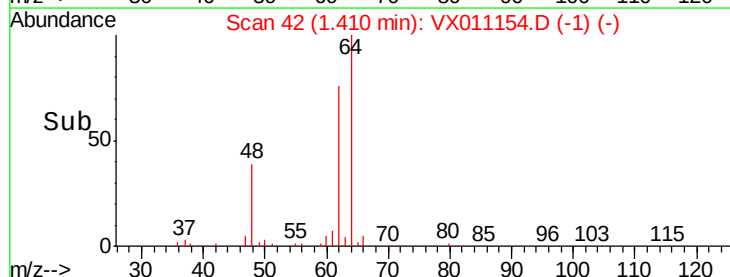
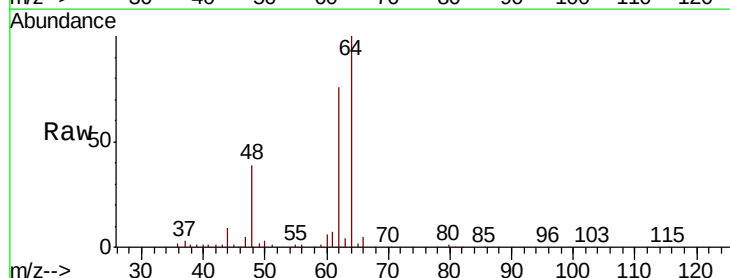
Acq: 29 Jul 2019 18:32

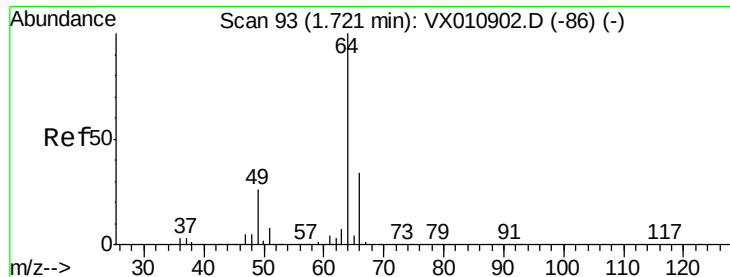
Tgt Ion: 62 Resp: 13282

Ion Ratio Lower Upper

62 100

64 45.7 25.7 38.5#





#6

Chloroethane

Concen: 0.403 ug/l

RT: 1.87 min Scan# 118

Delta R.T. 0.15 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampled :

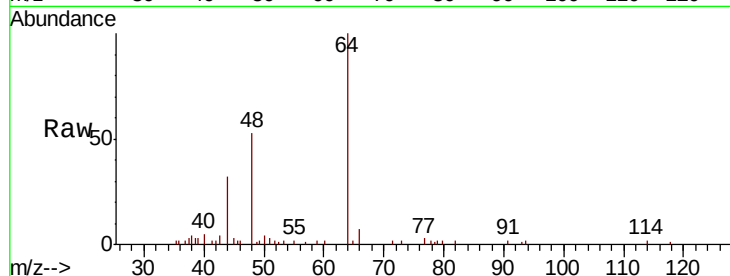
Z3-0679

Tot Ion: 64 Resp: 424

Ion Ratio Lower Upper

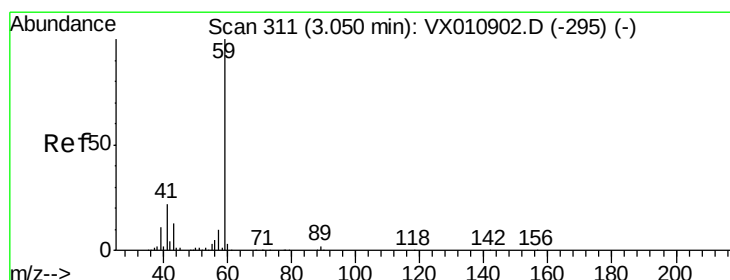
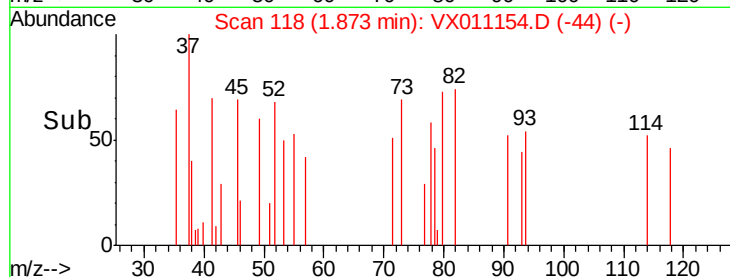
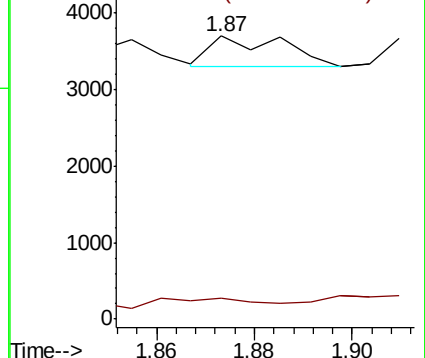
64 100

66 5.3 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 3.301 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX011154.D

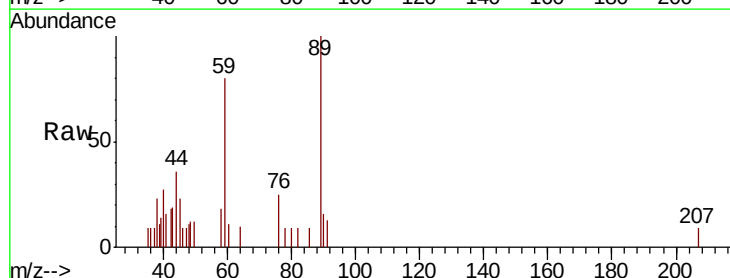
Acq: 29 Jul 2019 18:32

Tgt Ion: 59 Resp: 1443

Ion Ratio Lower Upper

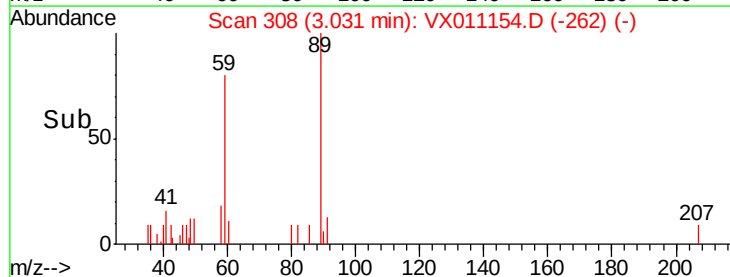
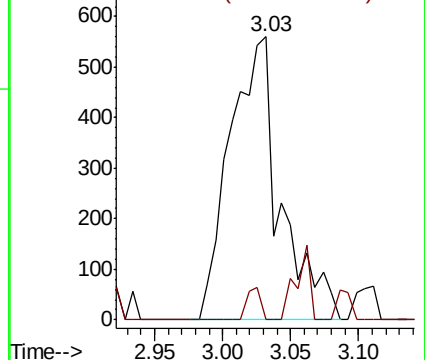
59 100

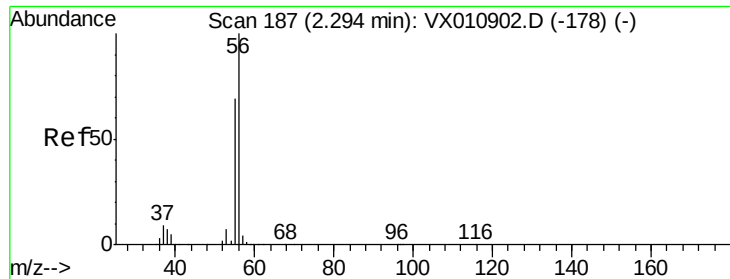
57 3.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.412 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampled :

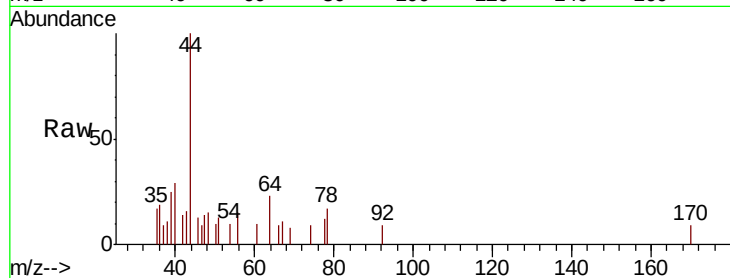
Z3-0679

Tot Ion: 56 Resp: 104

Ion Ratio Lower Upper

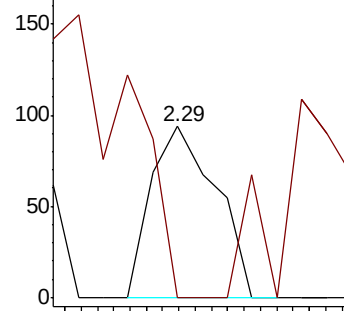
56 100

55 0.0 55.9 83.9#

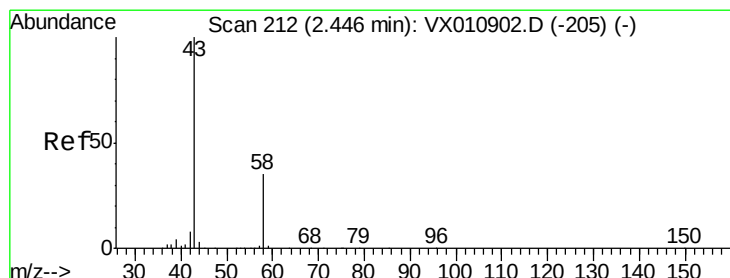
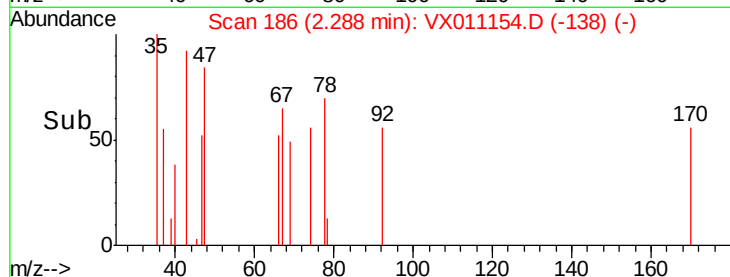


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.228 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011154.D

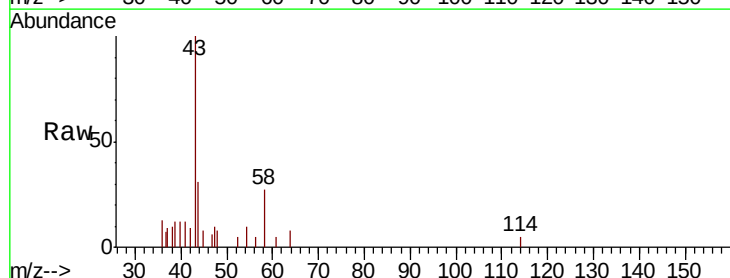
Acq: 29 Jul 2019 18:32

Tgt Ion: 43 Resp: 1889

Ion Ratio Lower Upper

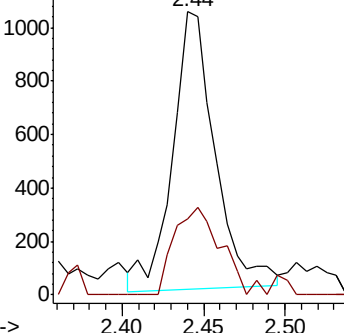
43 100

58 28.8 27.7 41.5

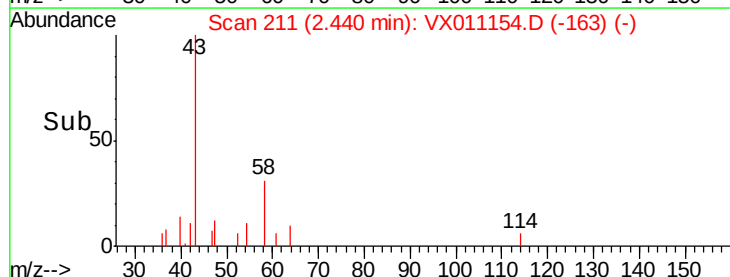


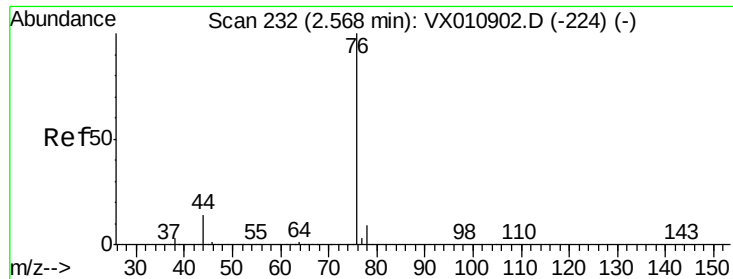
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.415 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampled :

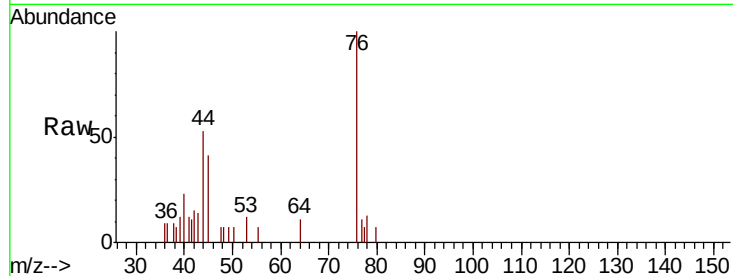
Z3-0679

Tot Ion: 76 Resp: 1671

Ion Ratio Lower Upper

76 100

78 13.4 7.4 11.0#

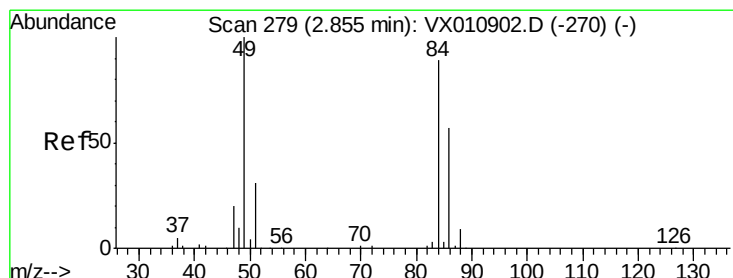
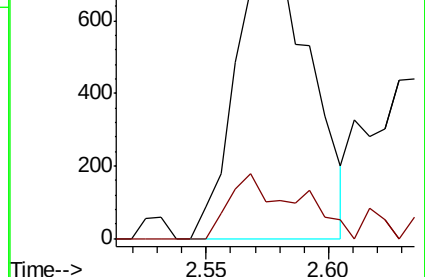
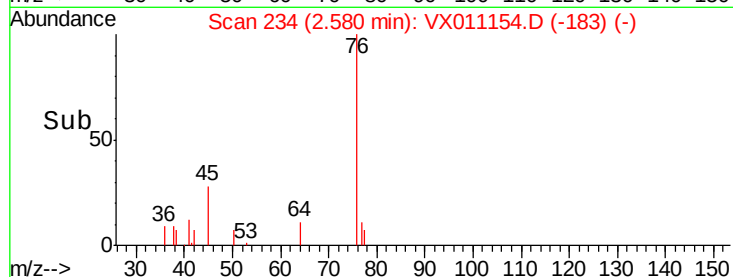


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.58

Time-->



#20

Methylene Chloride

Concen: 0.247 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Tgt Ion: 84 Resp: 444

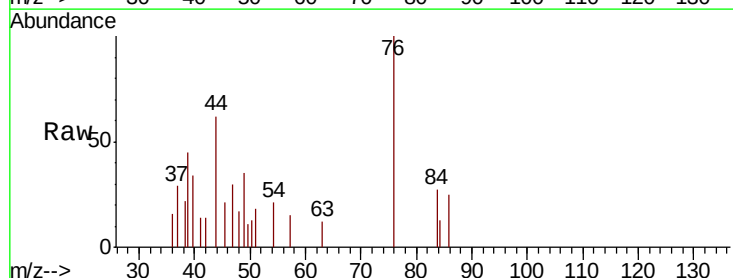
Ion Ratio Lower Upper

84 100

49 54.7 89.9 134.9#

51 44.8 27.8 41.6#

86 62.4 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

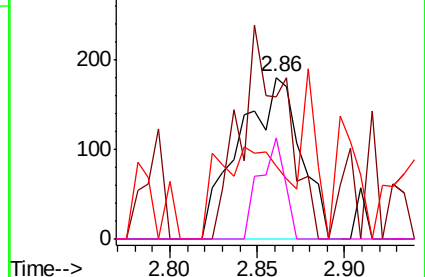
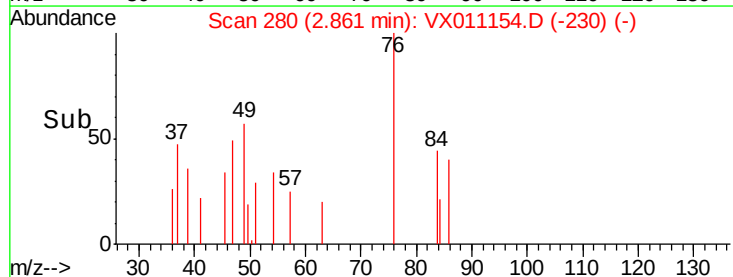
Ion 48.90 (48.60 to 49.60): VX0

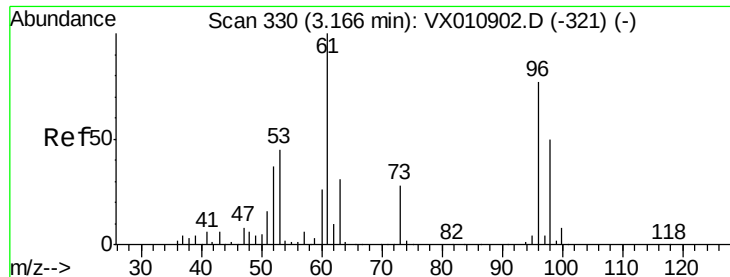
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

2.86

Time-->

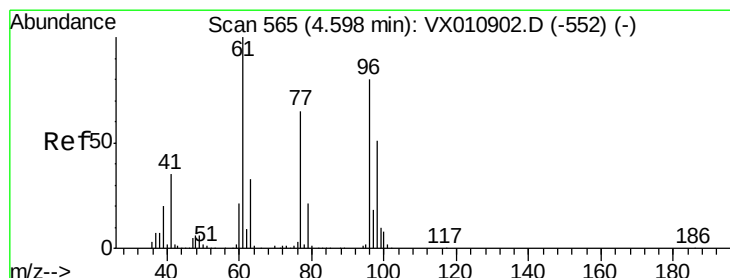
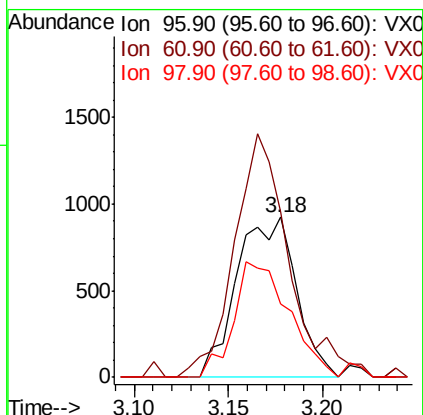
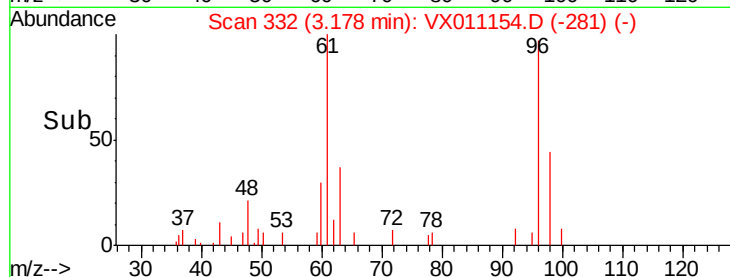
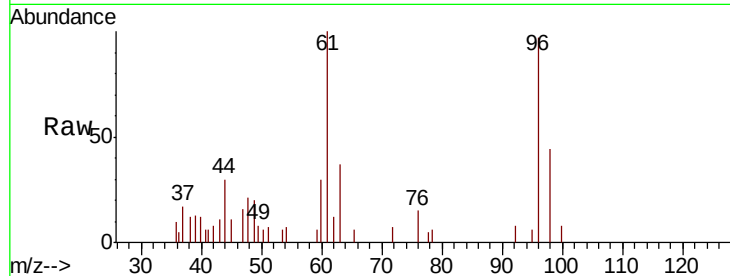




#21
trans-1,2-Dichloroethene
Concen: 1.208 ug/l
RT: 3.18 min Scan# 332
Delta R.T. 0.01 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

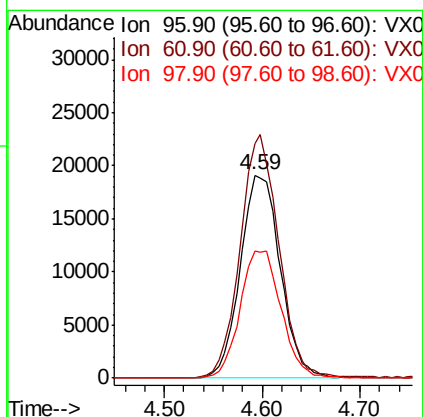
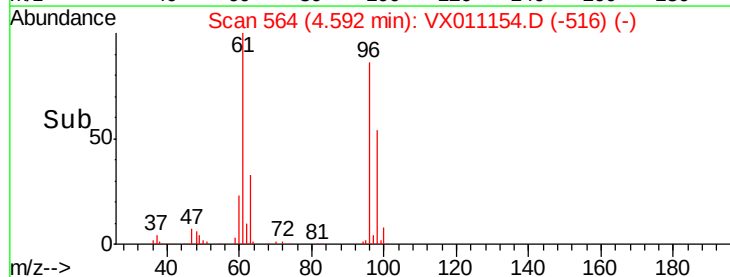
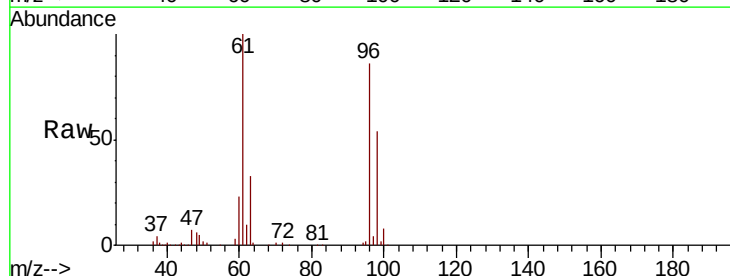
Instrument :
MSVOA_X
ClientSampleId :
Z3-0679

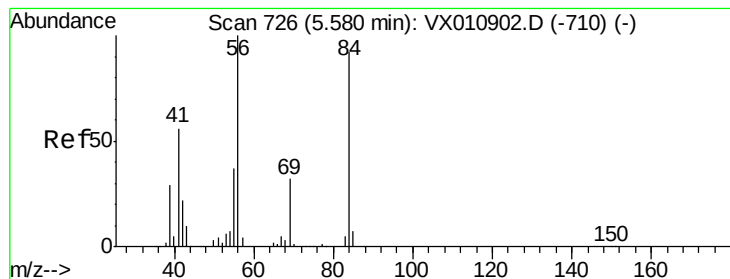
Tot Ion: 96 Resp: 2014
Ion Ratio Lower Upper
96 100
61 97.3 104.2 156.2#
98 45.8 52.2 78.4#



#27
cis-1,2-Dichloroethene
Concen: 28.190 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

Tgt Ion: 96 Resp: 54397
Ion Ratio Lower Upper
96 100
61 116.3 0.0 269.0
98 64.5 0.0 131.4





#31

Cyclohexane

Concen: 1.407 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

Z3-0679

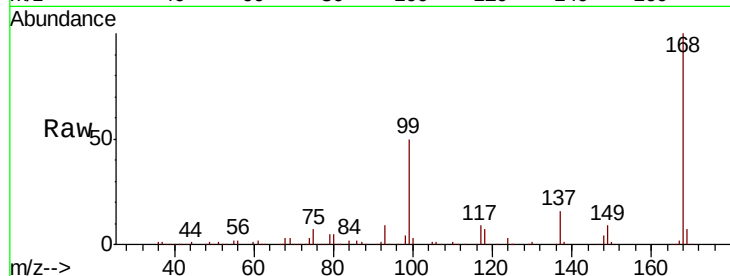
Tot Ion: 56 Resp: 3585

Ion Ratio Lower Upper

56 100

69 146.2 25.8 38.8#

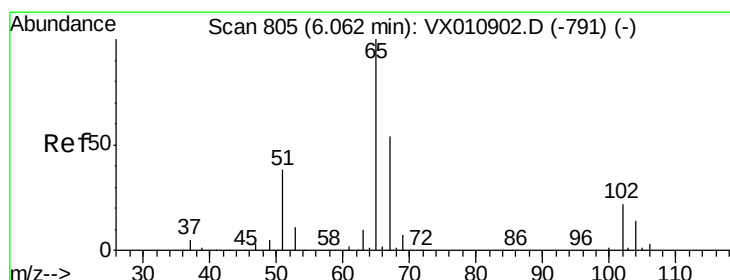
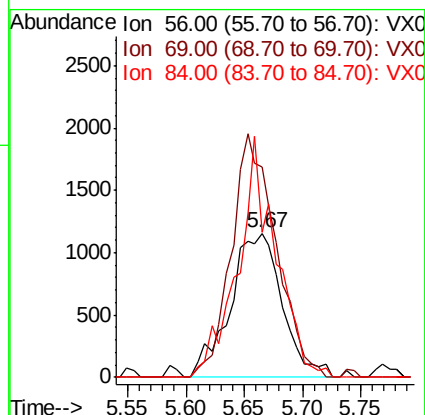
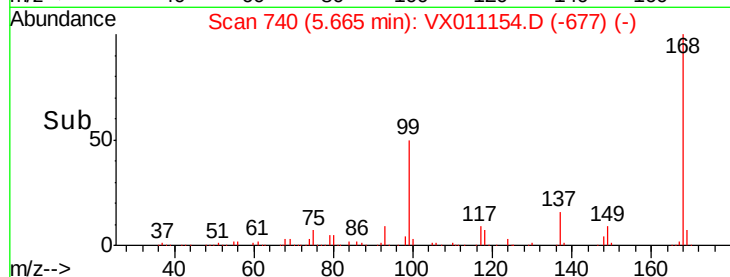
84 100.8 73.8 110.6



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: 52.501 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011154.D

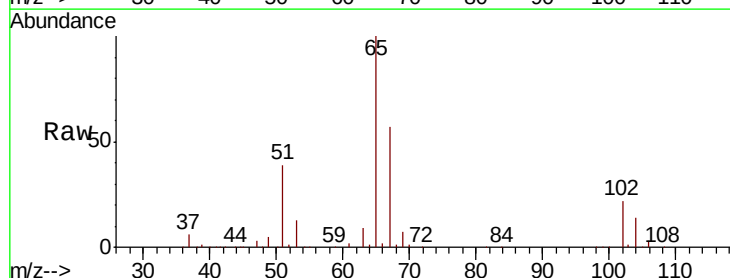
Acq: 29 Jul 2019 18:32

Tgt Ion: 65 Resp: 98536

Ion Ratio Lower Upper

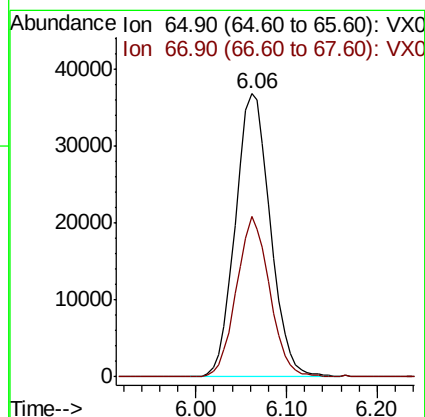
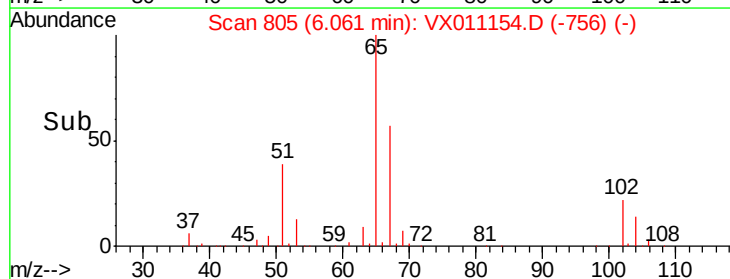
65 100

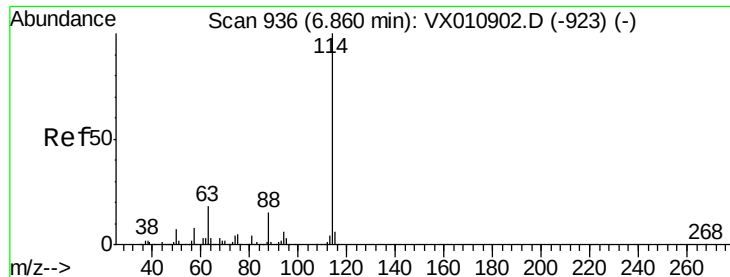
67 53.9 0.0 107.8



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. -0.00 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

Z3-0679

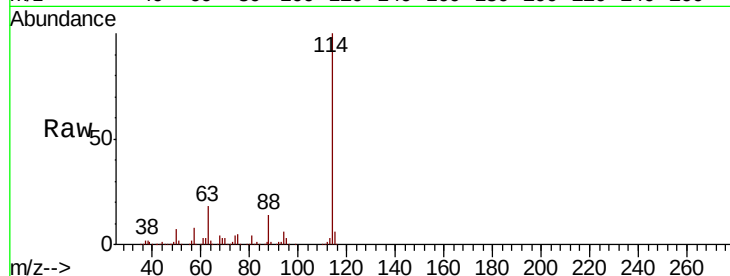
Tot Ion:114 Resp: 283523

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

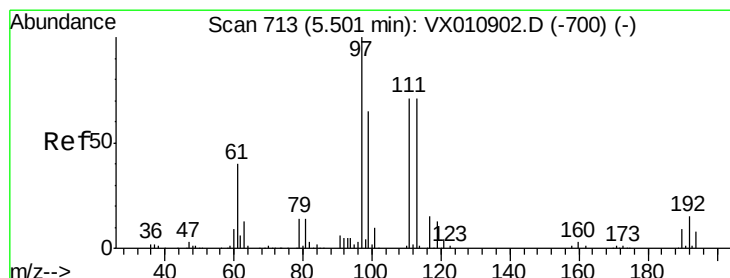
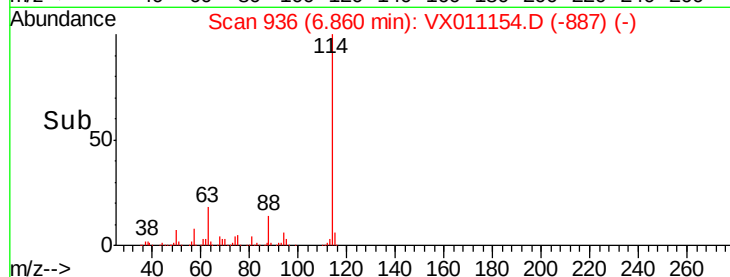
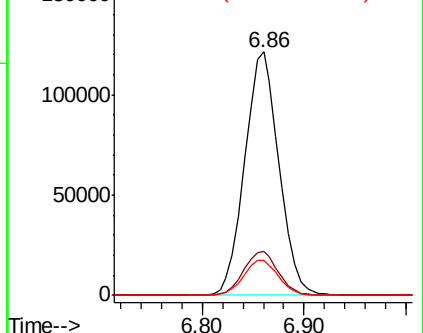
88 14.3 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.009 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

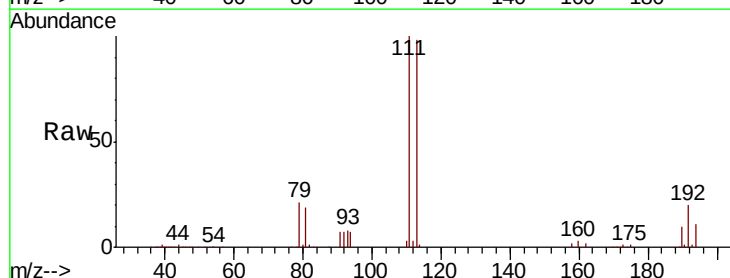
Tgt Ion:113 Resp: 91795

Ion Ratio Lower Upper

113 100

111 100.3 82.3 123.5

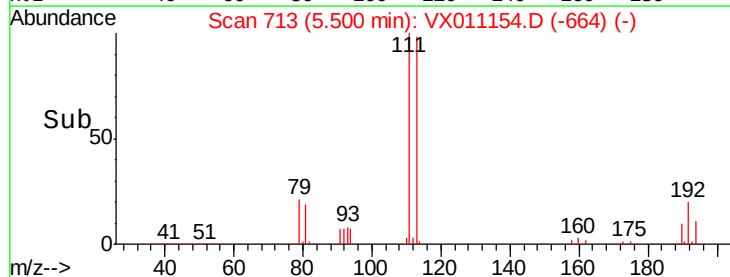
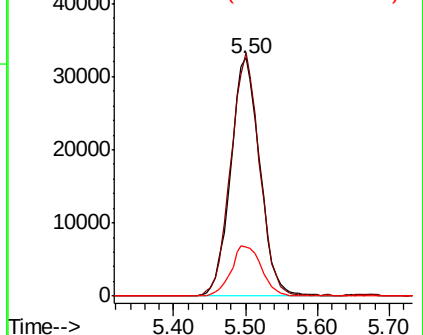
192 21.9 17.4 26.2

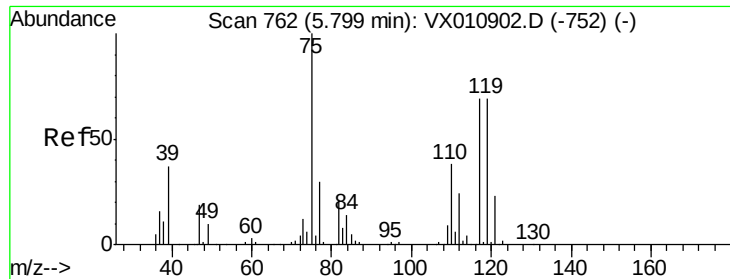


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

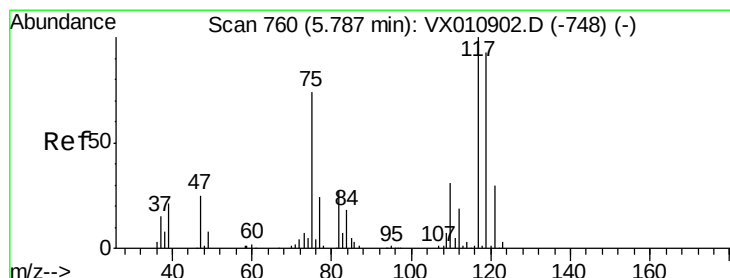
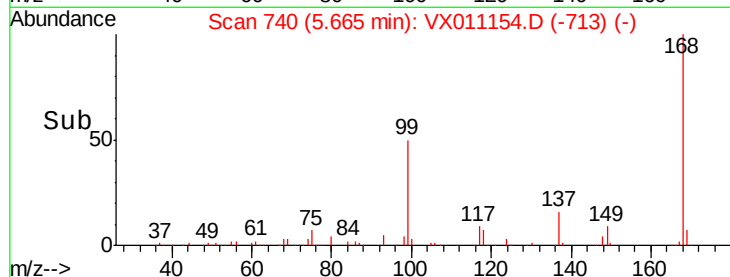
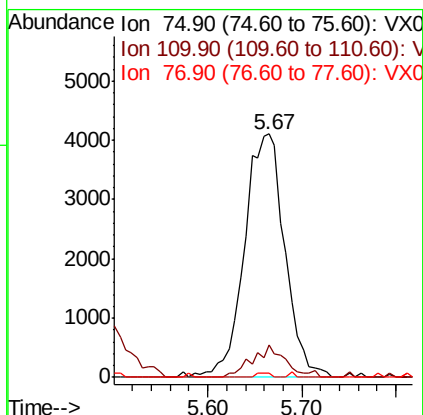
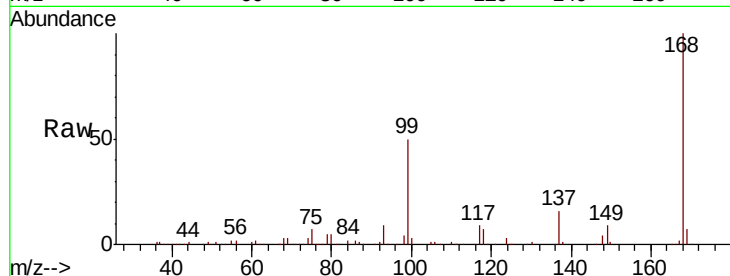




#36
 1,1-Dichloropropene
 Concen: 5.272 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX011154.D
 Acq: 29 Jul 2019 18:32

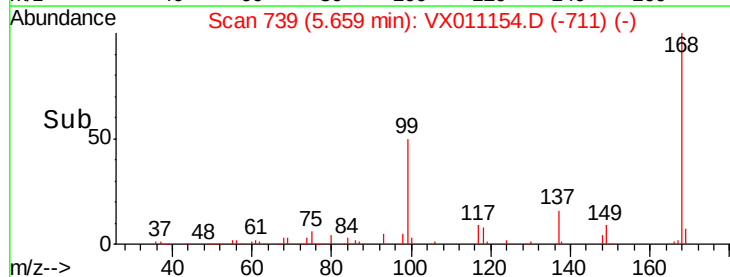
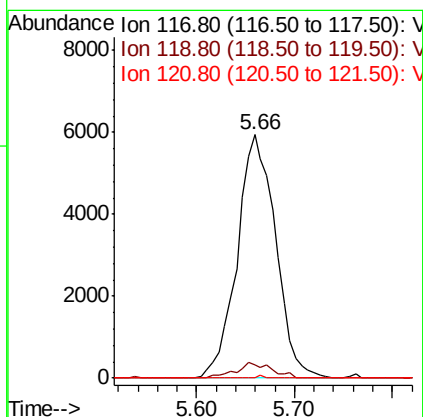
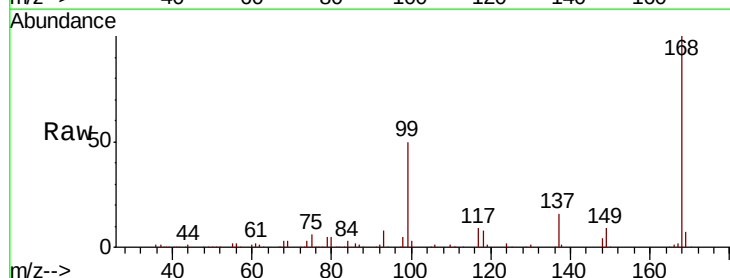
Instrument :
 MSVOA_X
 ClientSampled :
 Z3-0679

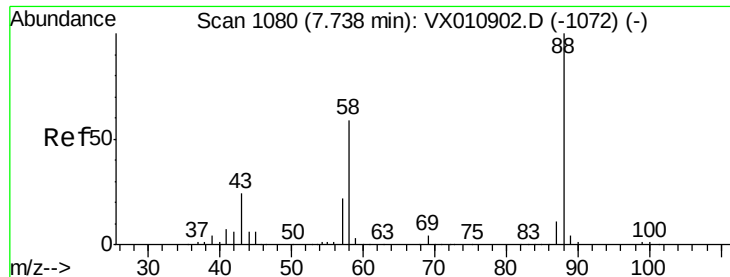
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	19.9	59.7#
77	0.6	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.672 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011154.D
 Acq: 29 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	74.2	111.2#
121	0.0	24.2	36.2#

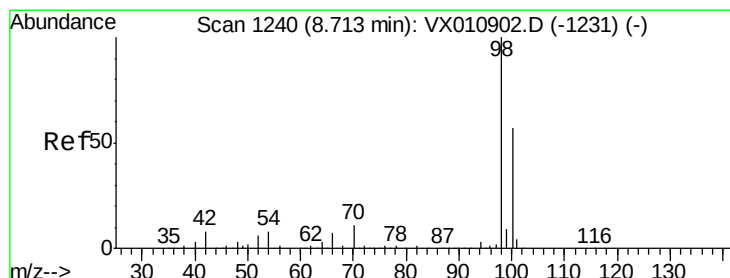
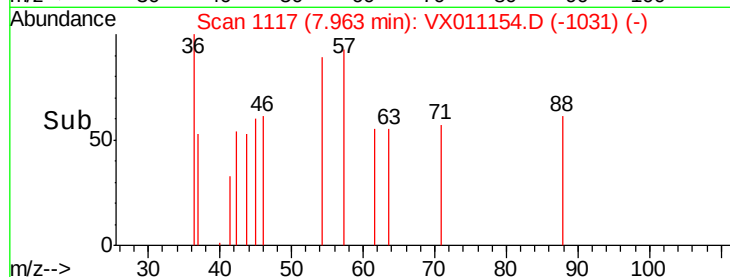
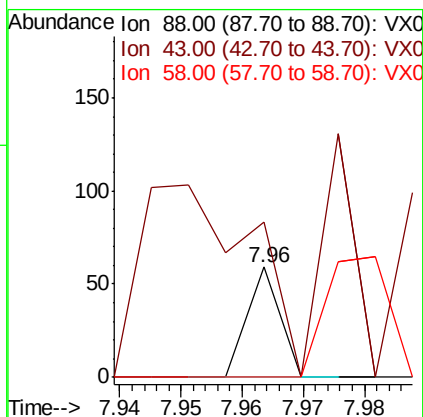
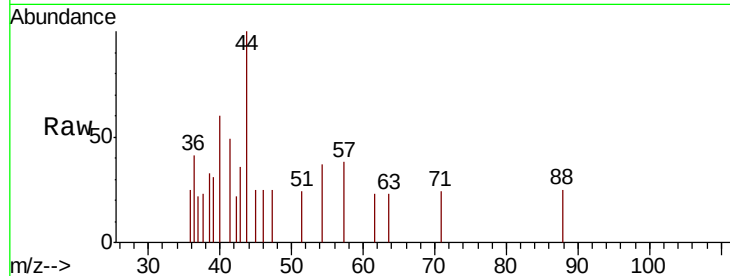




#49
1,4-Dioxane
Concen: 0.412 ug/l
RT: 7.96 min Scan# 1117
Delta R.T. 0.23 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

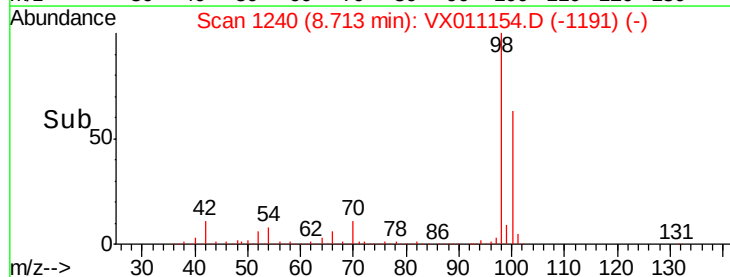
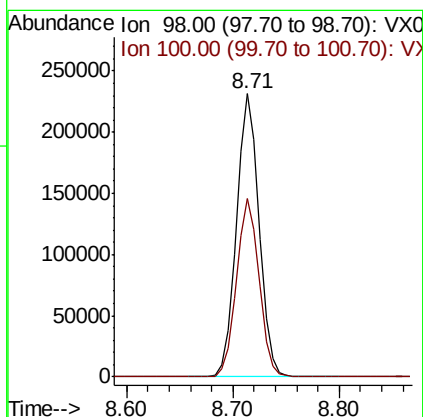
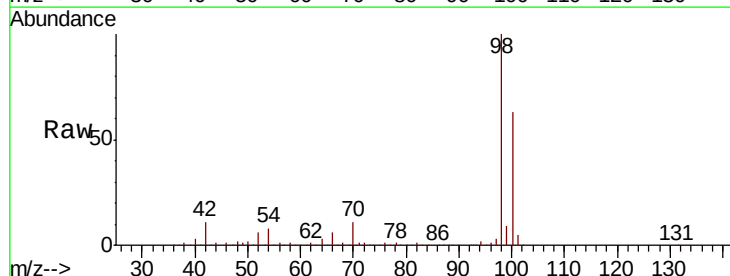
Instrument :
MSVOA_X
ClientSampleId :
Z3-0679

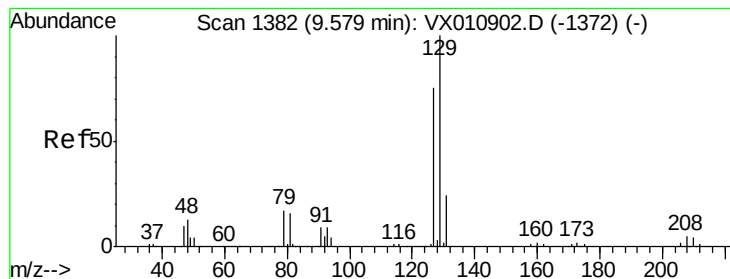
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 590.9 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 51.147 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

Tgt Ion: 98 Resp: 345223
Ion Ratio Lower Upper
98 100
100 63.0 50.6 75.8





#60

Dibromochloromethane

Concen: 2.539 ug/l

RT: 9.74 min Scan# 1409

Delta R.T. 0.16 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

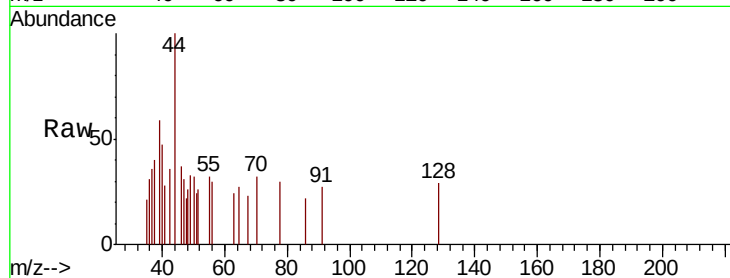
Z3-0679

Tot Ion:129 Resp: 25

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.74

60

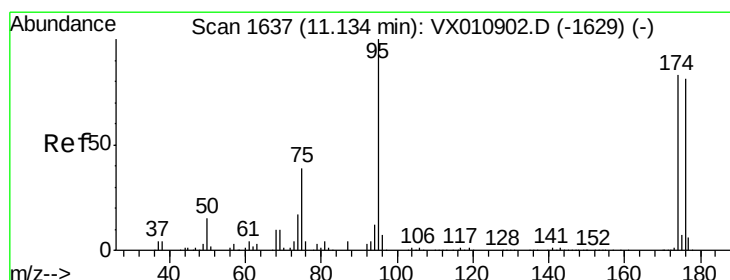
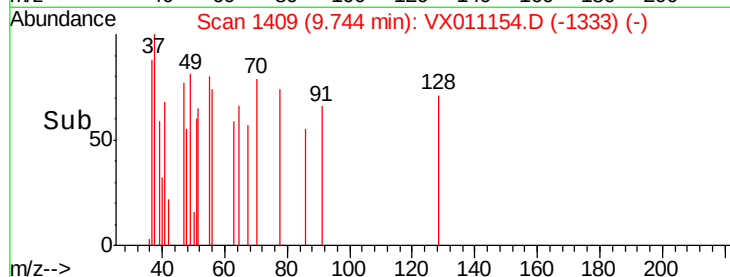
40

20

0

9.72 9.73 9.74 9.75 9.76

Time-->



#62

4-Bromofluorobenzene

Concen: 46.815 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

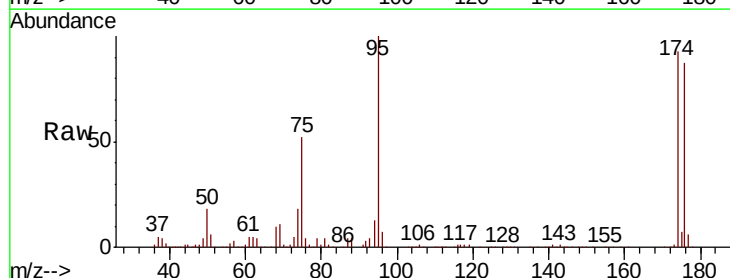
Tgt Ion: 95 Resp: 116144

Ion Ratio Lower Upper

95 100

174 93.5 0.0 180.6

176 90.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

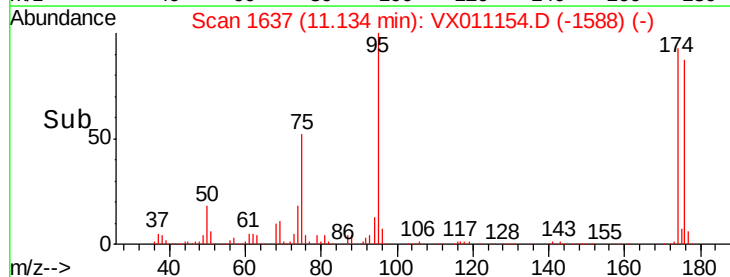
40000

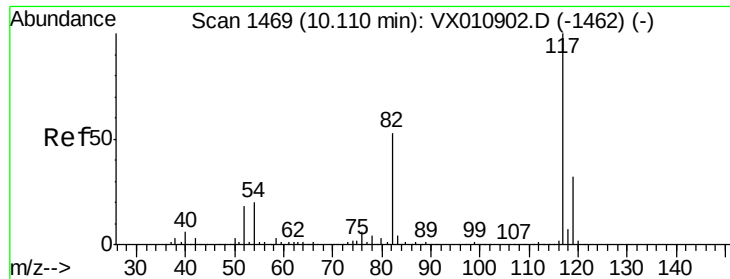
20000

0

11.10 11.13 11.20

Time-->

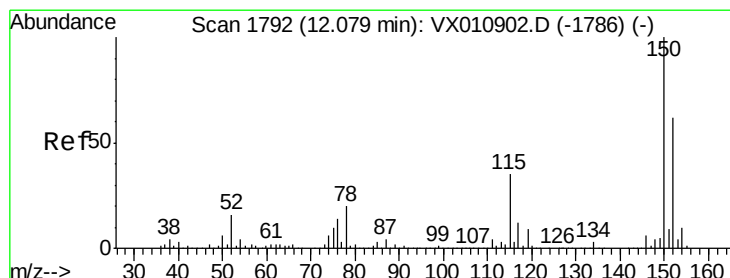
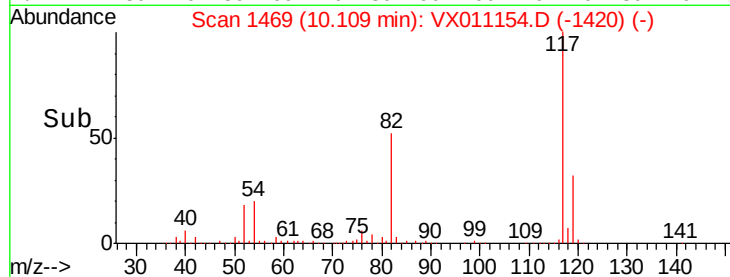
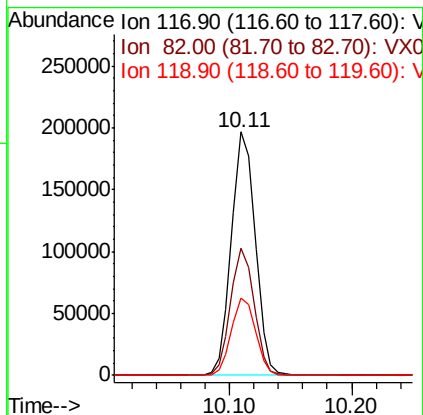
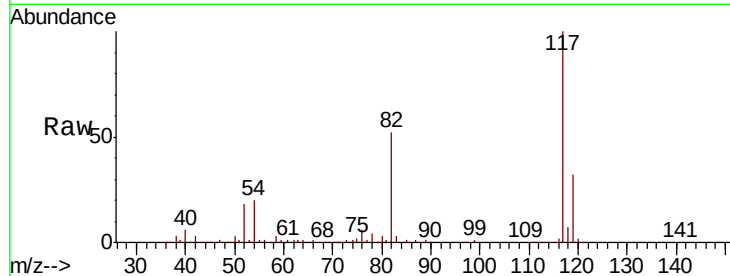




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

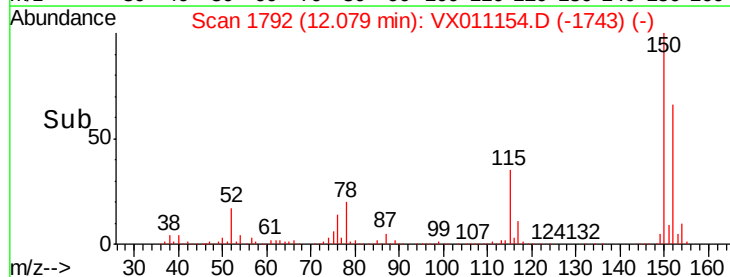
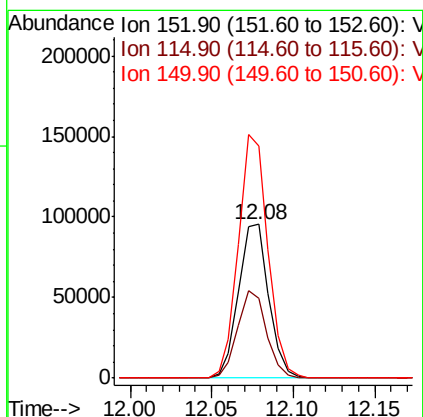
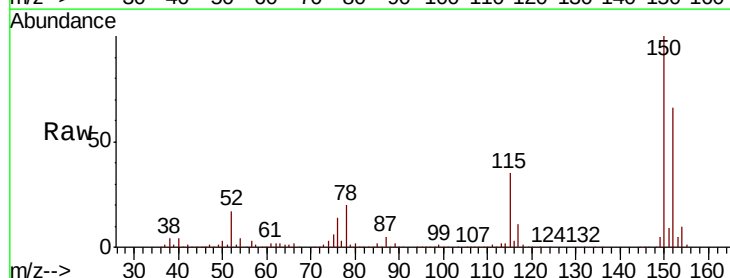
Instrument :
MSVOA_X
ClientSampled :
Z3-0679

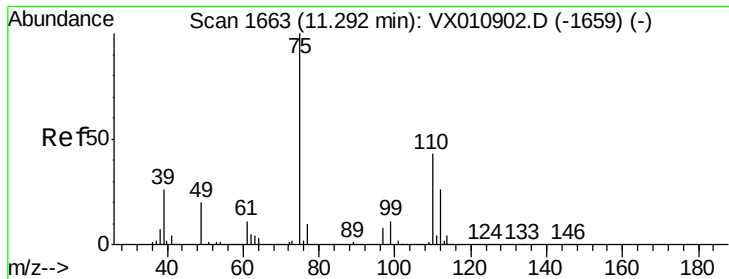
Tot Ion:117 Resp: 265094
Ion Ratio Lower Upper
117 100
82 52.1 42.6 63.8
119 32.0 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011154.D
Acq: 29 Jul 2019 18:32

Tgt Ion:152 Resp: 123554
Ion Ratio Lower Upper
152 100
115 54.6 39.7 119.1
150 154.3 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampled :

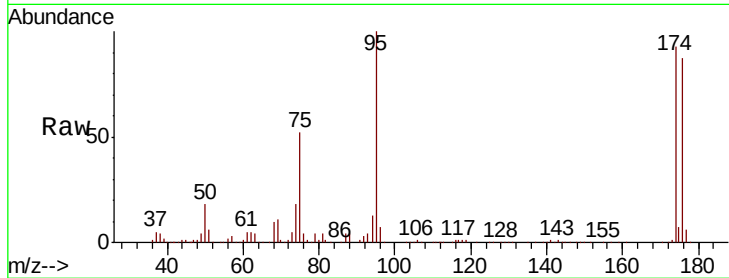
Z3-0679

Tot Ion: 75 Resp: 59071

Ion Ratio Lower Upper

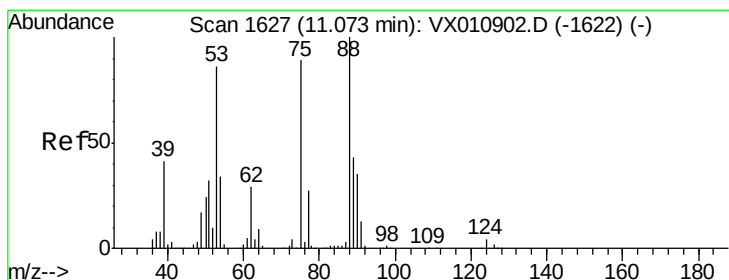
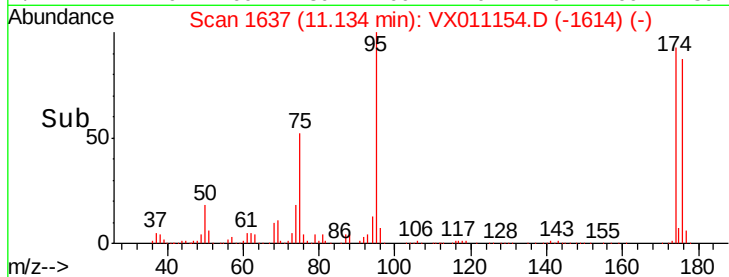
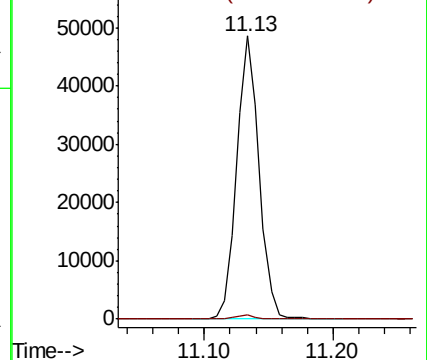
75 100

77 1.4 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 65.761 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011154.D

Acq: 29 Jul 2019 18:32

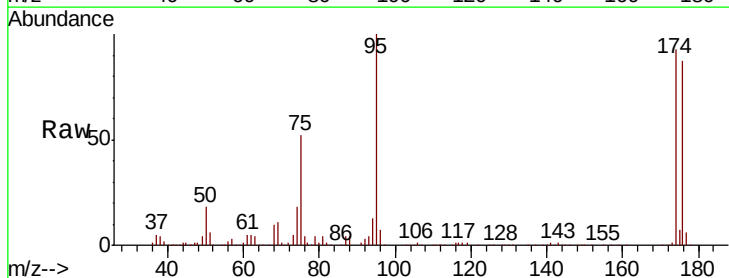
Tgt Ion: 75 Resp: 59071

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 38.5 57.7#



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

