

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013279.D
 Acq On : 30 Oct 2019 11:46
 Operator : JC/SP
 Sample : K5602-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:38:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

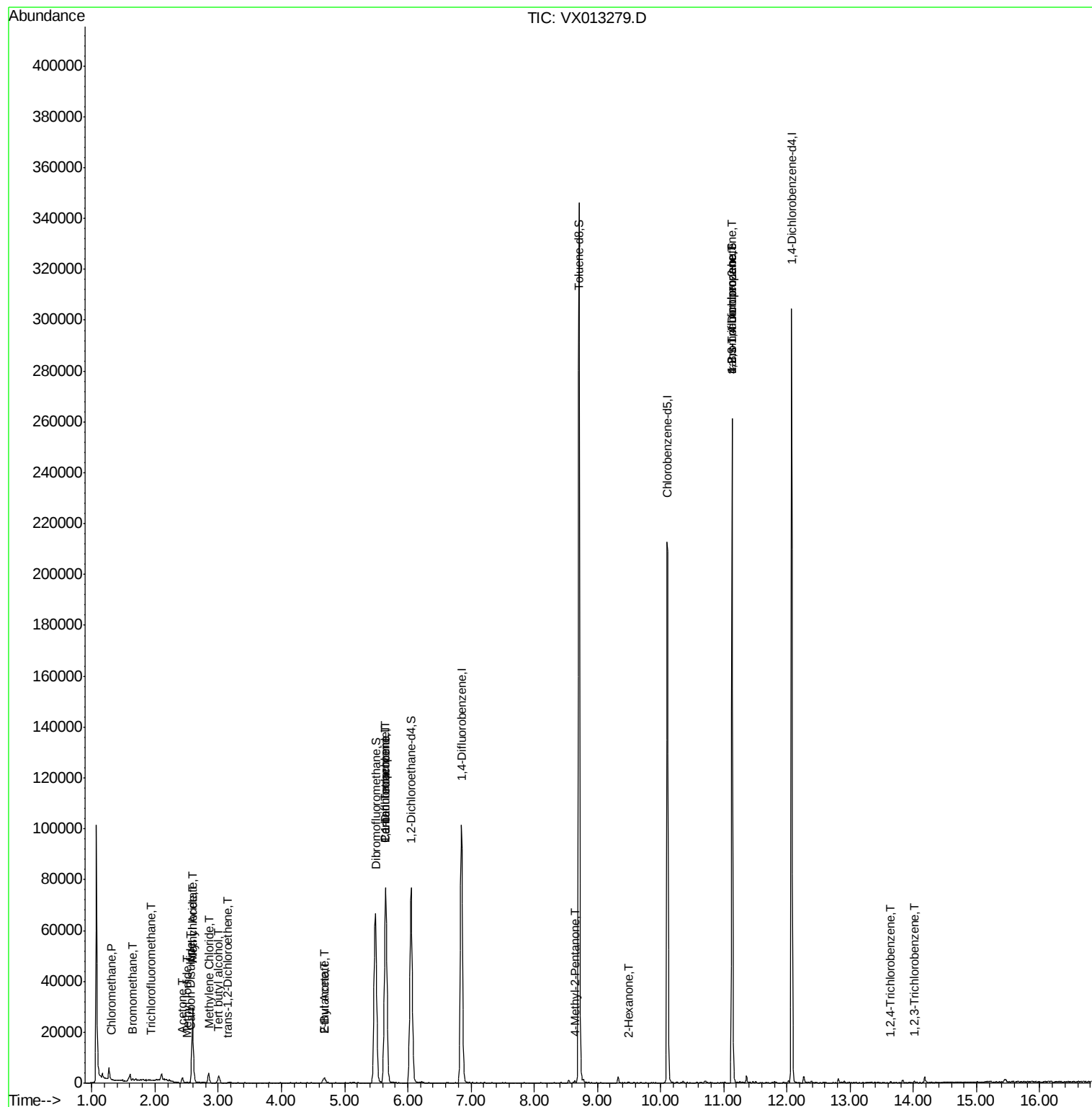
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	72343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	100938	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	101267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	60403	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	77668	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
35) Dibromofluoromethane	5.48	113	58424	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	
50) Toluene-d8	8.71	98	203404	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.13	95	75056	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.31	50	120	1.075	ug/l #	40
5) Bromomethane	1.64	94	187	0.269	ug/l	96
6) Chloroethane	1.72	64	269	Below Cal	#	43
7) Trichlorofluoromethane	1.93	101	132	0.362	ug/l #	17
10) Methyl Iodide	2.51	142	213	3.663	ug/l #	40
11) Tert butyl alcohol	3.01	59	1813	4.480	ug/l #	72
14) Allyl chloride	2.59	41	3026	1.560	ug/l #	66
16) Acetone	2.44	43	2063	2.894	ug/l	91
17) Carbon Disulfide	2.56	76	684	0.206	ug/l #	74
18) Methyl Acetate	2.59	43	7862	5.922	ug/l #	49
20) Methylene Chloride	2.84	84	1898	1.704	ug/l #	84
21) trans-1,2-Dichloroethene	3.15	96	53	0.517	ug/l #	45
25) 2-Butanone	4.68	43	796	0.833	ug/l #	45
36) 1,1-Dichloropropene	5.64	75	5123	2.960	ug/l #	50
37) Ethyl Acetate	4.68	43	796	0.473	ug/l #	65
38) Carbon Tetrachloride	5.65	117	7194	3.856	ug/l #	16
51) 4-Methyl-2-Pentanone	8.64	43	400	0.235	ug/l	94
59) 2-Hexanone	9.50	43	274	0.209	ug/l #	34
76) 1,2,3-Trichloropropane	11.13	75	37874	26.016	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	37874	71.489	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	327	0.222	ug/l #	67
96) 1,2,3-Trichlorobenzene	14.02	180	318	0.219	ug/l #	55

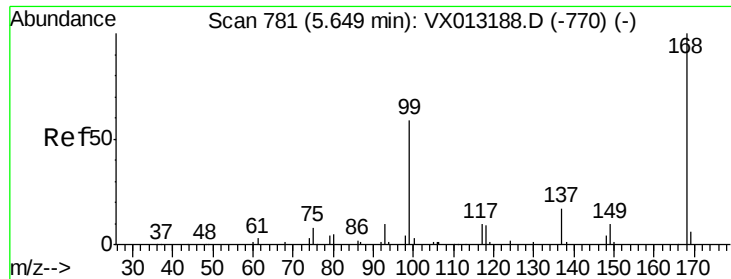
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

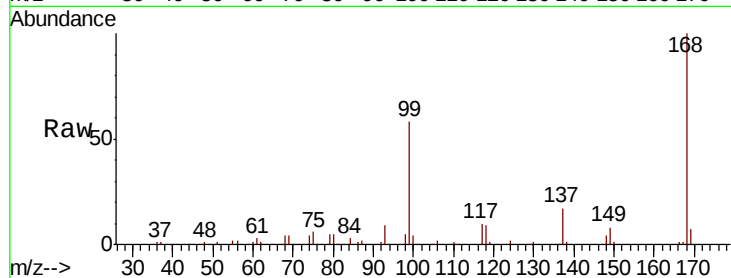
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 72343

Ion Ratio Lower Upper

168 100

99 58.3 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

25000

20000

15000

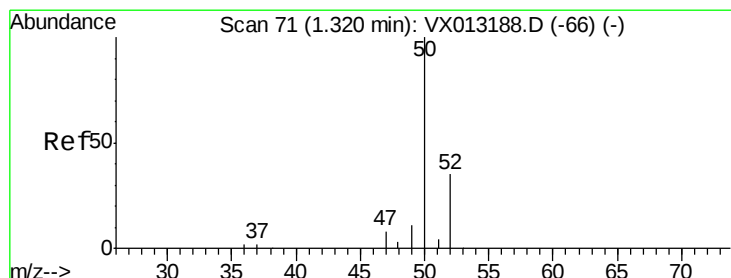
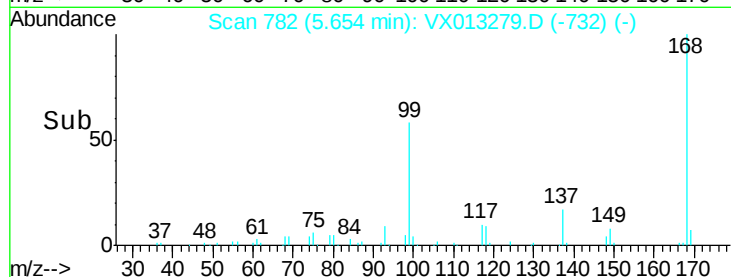
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.075 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX013279.D

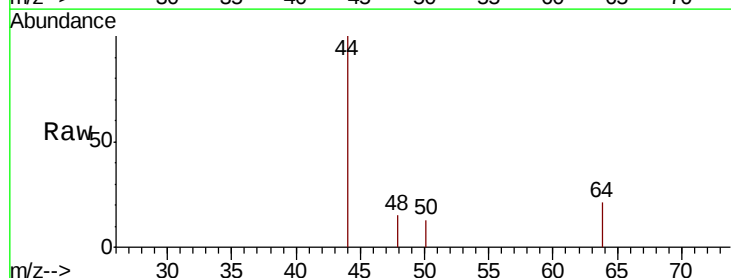
Acq: 30 Oct 2019 11:46

Tgt Ion: 50 Resp: 120

Ion Ratio Lower Upper

50 100

52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

150

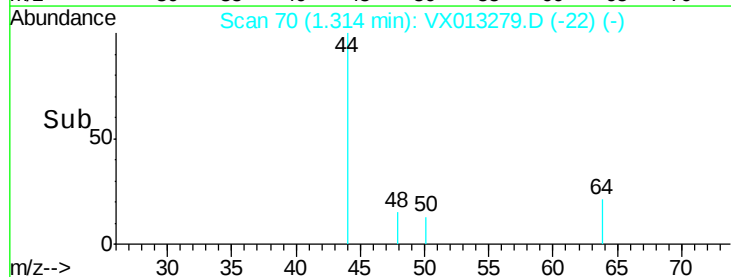
100

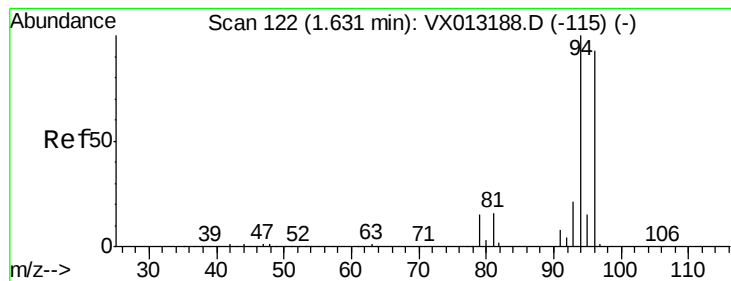
50

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 0.269 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

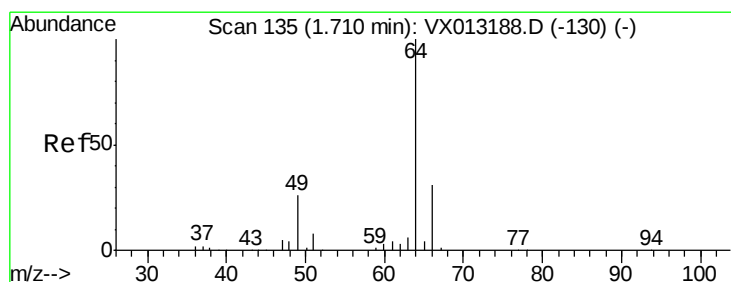
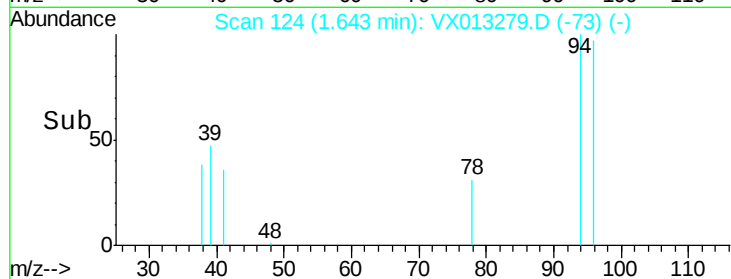
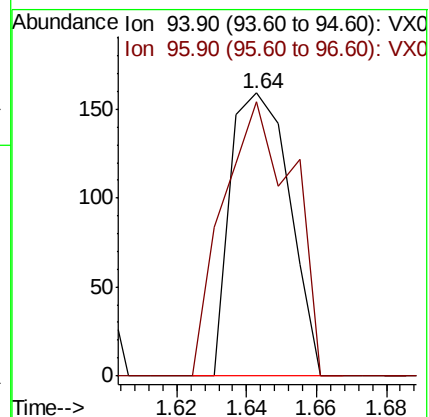
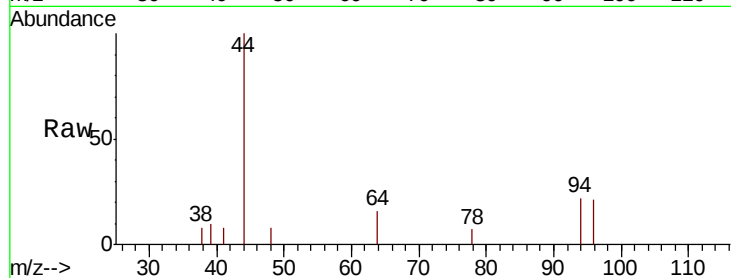
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 187

Ion Ratio Lower Upper

94 100

96 96.9 74.2 111.2



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013279.D

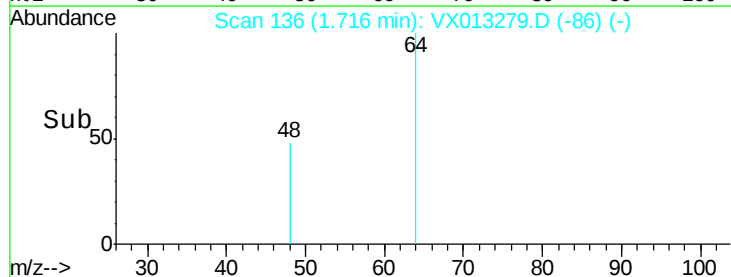
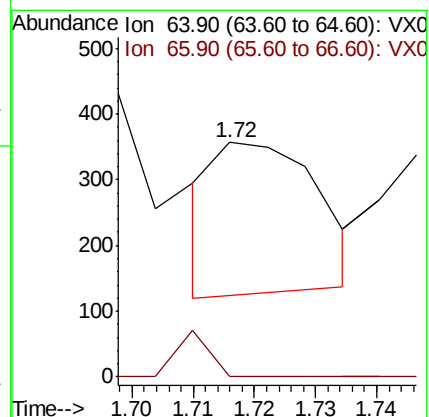
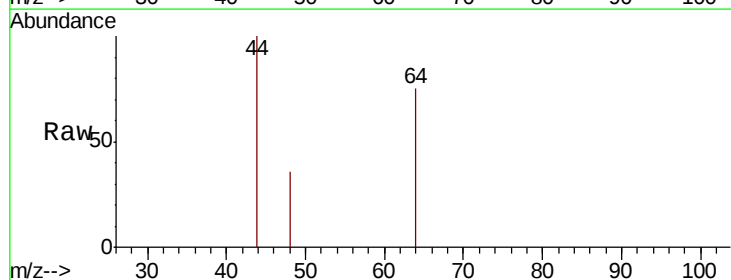
Acq: 30 Oct 2019 11:46

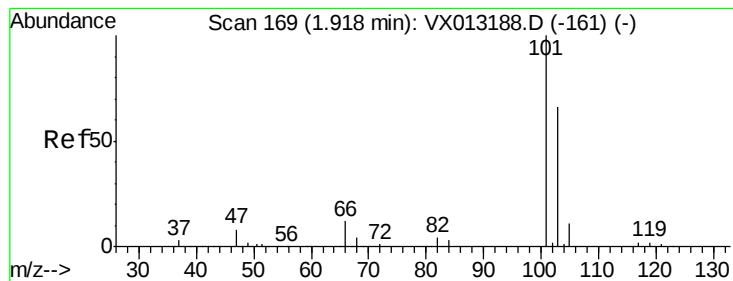
Tgt Ion: 64 Resp: 269

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



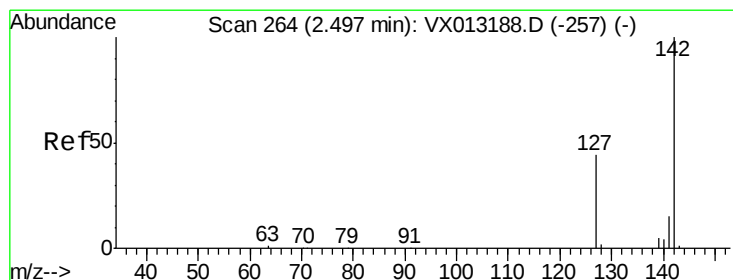
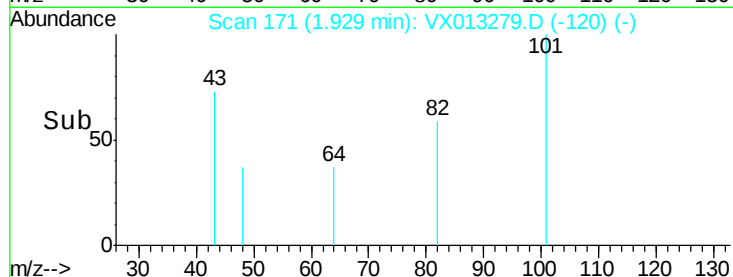
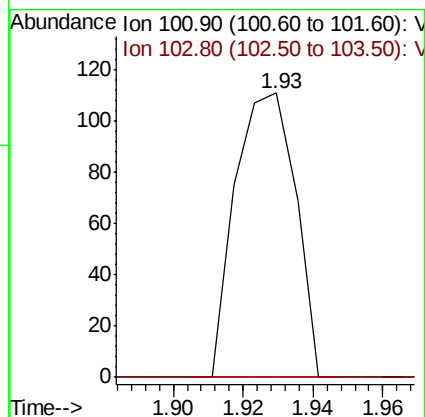
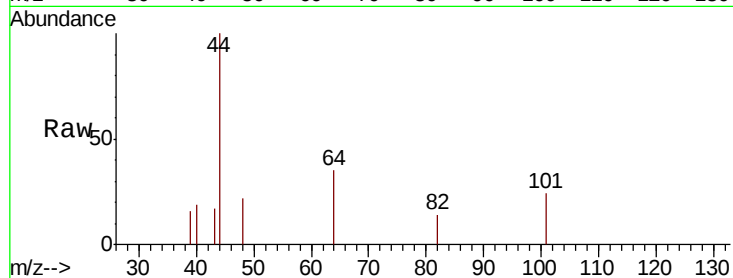


#7

Trichlorofluoromethane
 Concen: 0.362 ug/l
 RT: 1.93 min Scan# 171
 Delta R.T. 0.01 min
 Lab File: VX013279.D
 Acq: 30 Oct 2019 11:46

Instrument :
 MSVOA_X
 ClientSampleId :

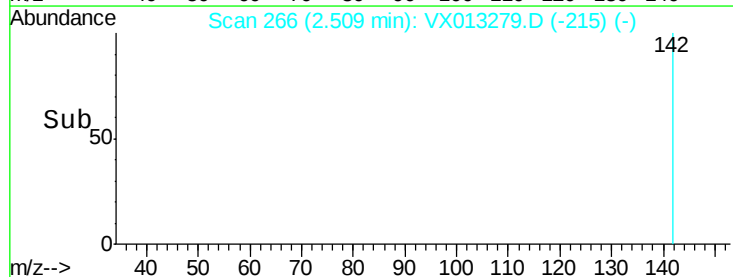
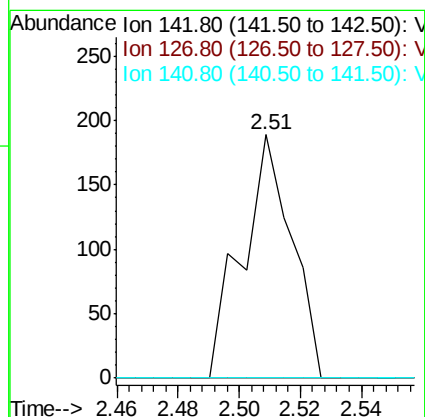
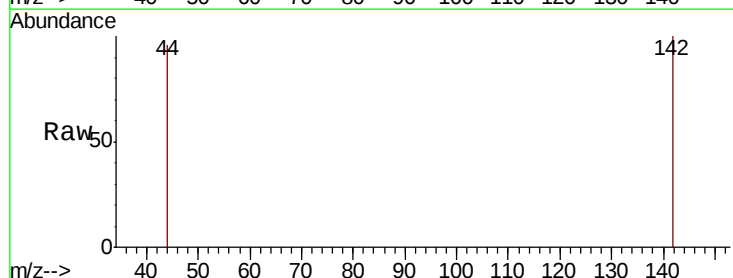
Tot Ion:101 Resp: 132
 Ion Ratio Lower Upper
 101 100
 103 0.0 53.0 79.6#

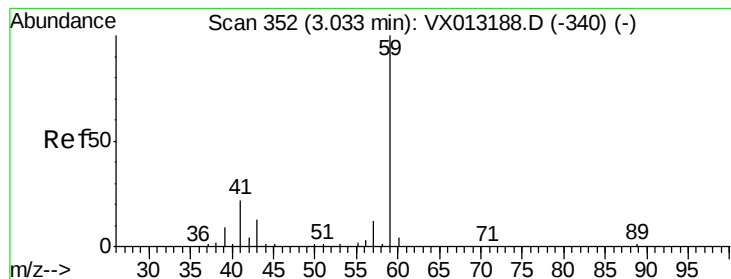


#10

Methyl Iodide
 Concen: 3.663 ug/l
 RT: 2.51 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VX013279.D
 Acq: 30 Oct 2019 11:46

Tgt Ion:142 Resp: 213
 Ion Ratio Lower Upper
 142 100
 127 0.0 35.6 53.4#
 141 0.0 11.6 17.4#



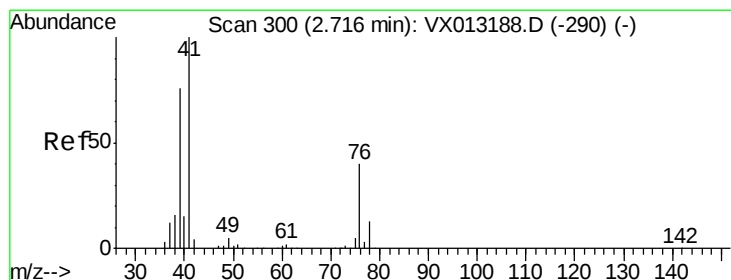
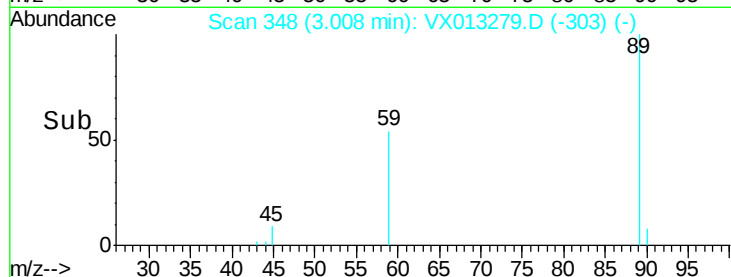
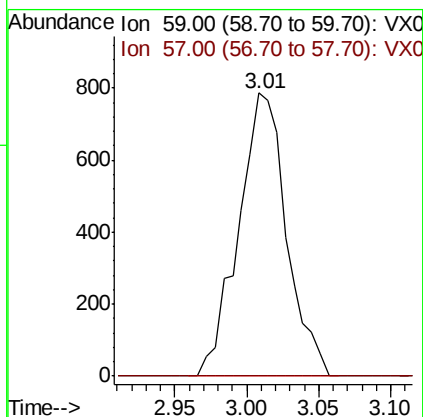
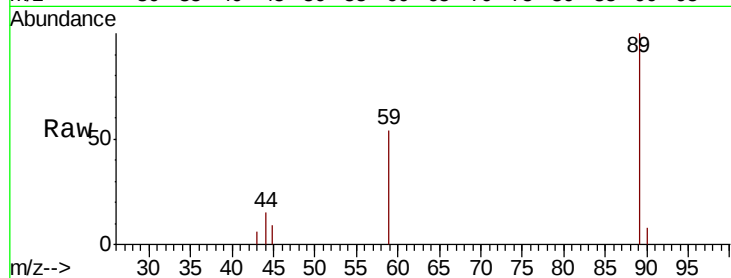


#11

Tert butyl alcohol
 Concen: 4.480 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX013279.D
 Acq: 30 Oct 2019 11:46

Instrument :
 MSVOA_X
 ClientSampled :

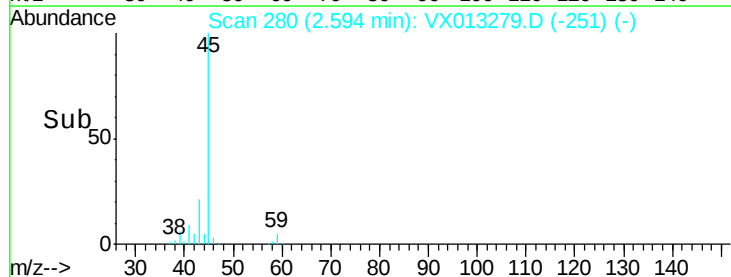
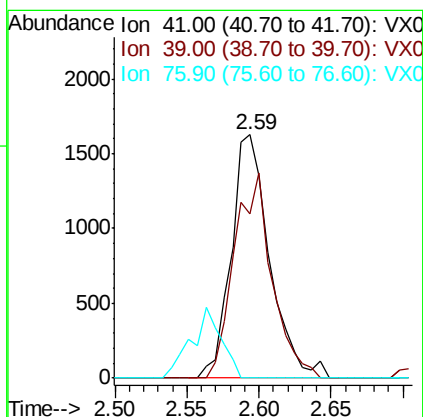
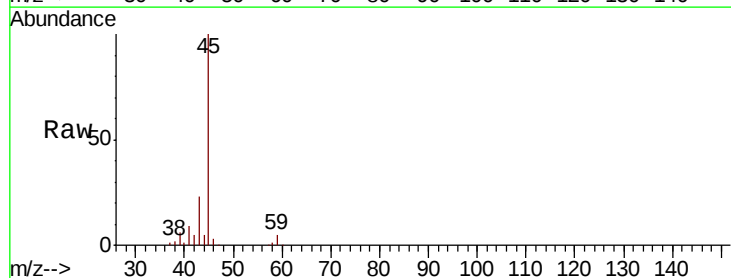
Tot Ion: 59 Resp: 1813
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

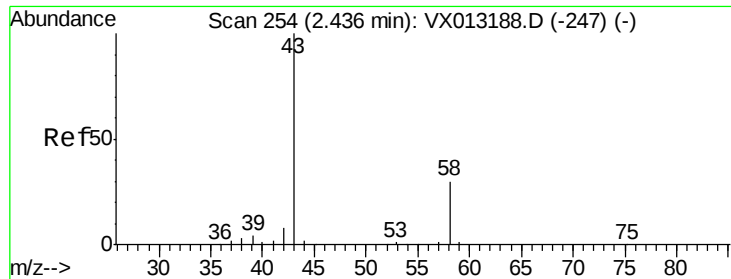


#14

Allyl chloride
 Concen: 1.560 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX013279.D
 Acq: 30 Oct 2019 11:46

Tgt Ion: 41 Resp: 3026
 Ion Ratio Lower Upper
 41 100
 39 82.8 54.6 81.8#
 76 0.0 29.8 44.6#

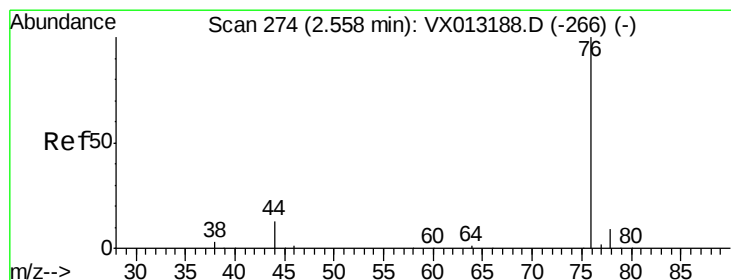
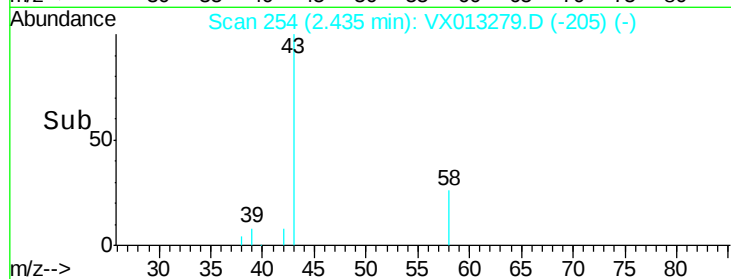
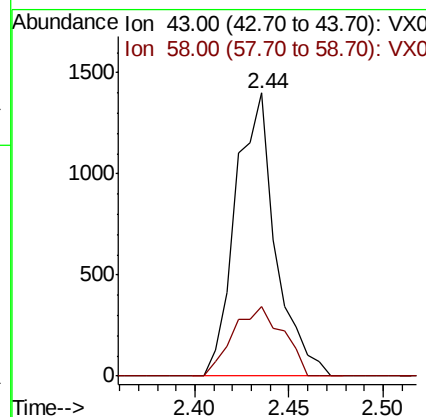
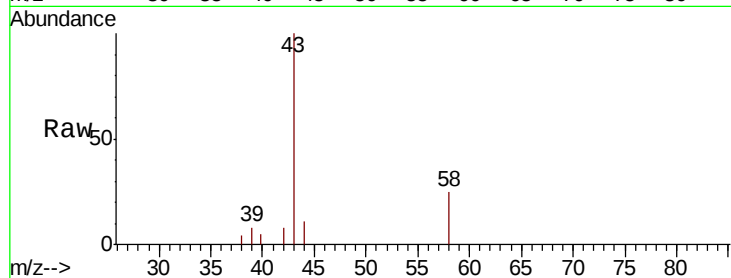




#16
Acetone
Concen: 2.894 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

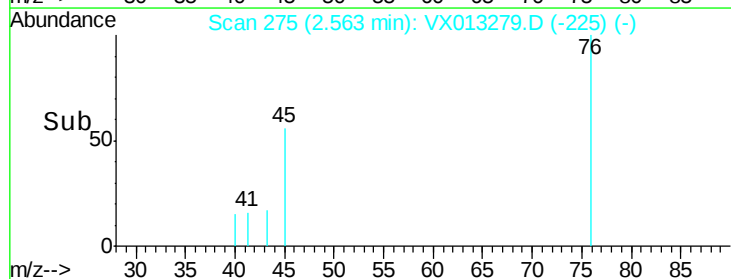
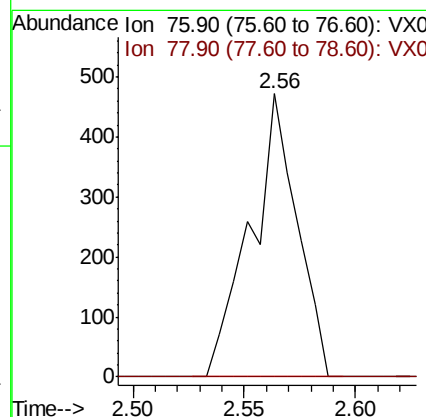
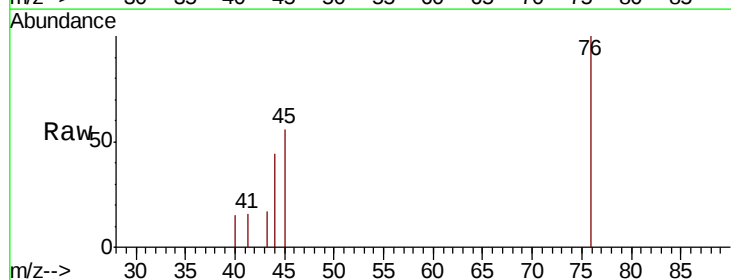
Instrument :
MSVOA_X
ClientSampleId :

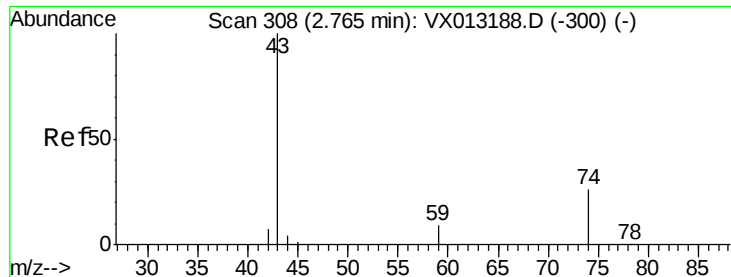
Tot Ion: 43 Resp: 2063
Ion Ratio Lower Upper
43 100
58 24.7 23.8 35.6



#17
Carbon Disulfide
Concen: 0.206 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Tgt Ion: 76 Resp: 684
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

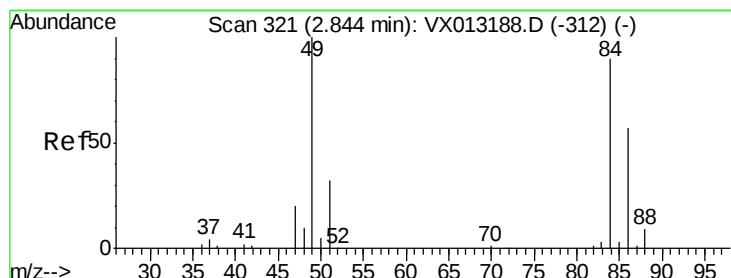
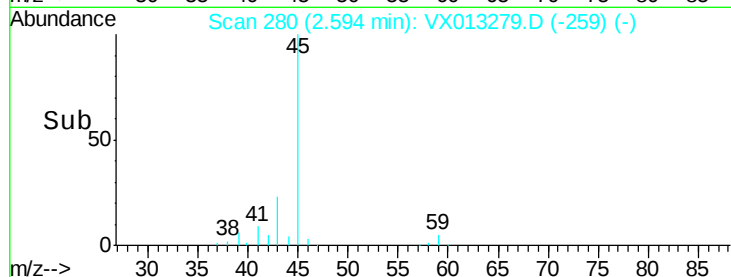
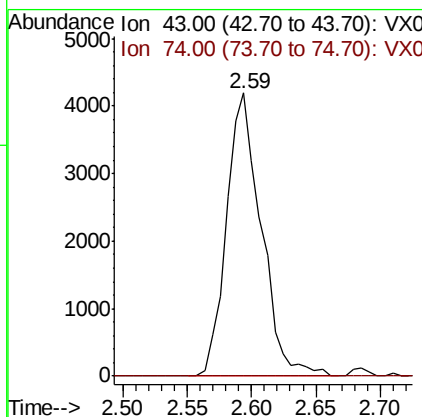
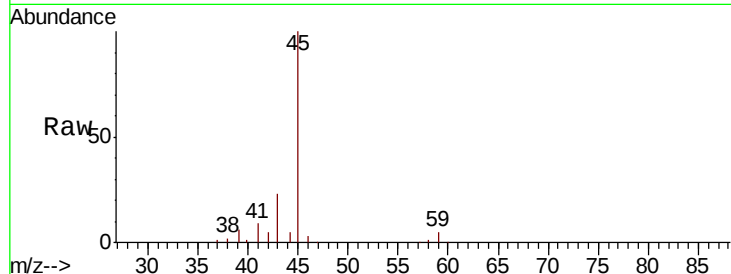




#18
Methvl Acetate
Concen: 5.922 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

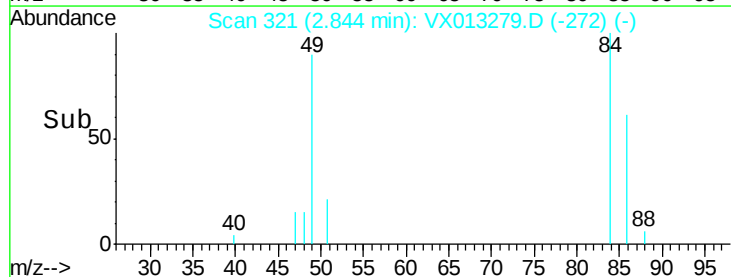
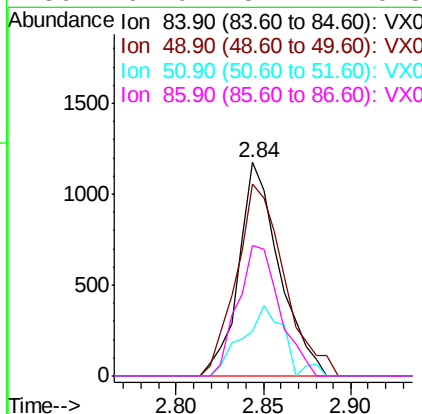
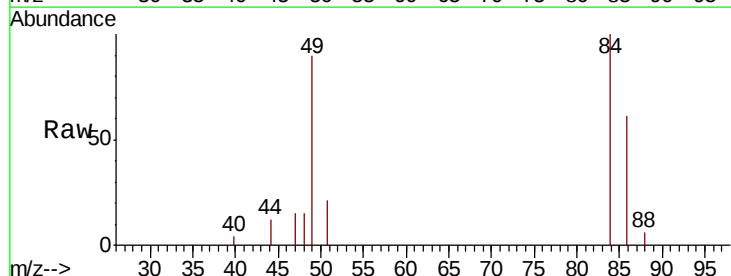
Instrument :
MSVOA_X
ClientSampleId :

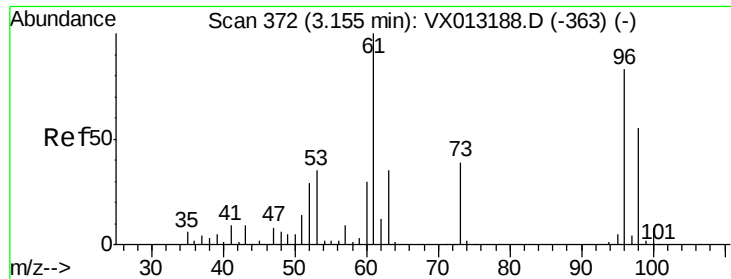
Tot Ion: 43 Resp: 7862
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 1.704 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Tgt Ion: 84 Resp: 1898
Ion Ratio Lower Upper
84 100
49 89.8 89.2 133.8
51 21.1 28.8 43.2#
86 61.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 0.517 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

ClientSampleId :

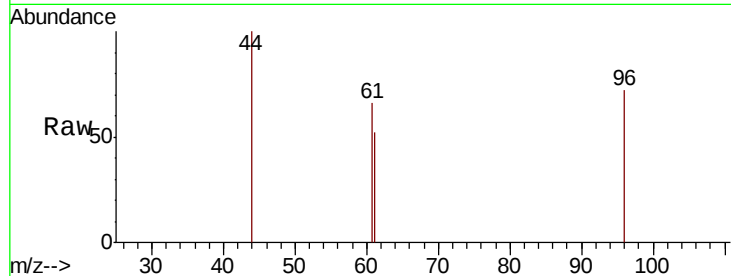
Tot Ion: 96 Resp: 53

Ion Ratio Lower Upper

96 100

61 165.4 96.9 145.3#

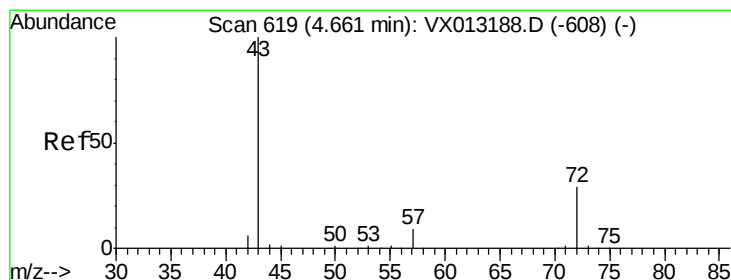
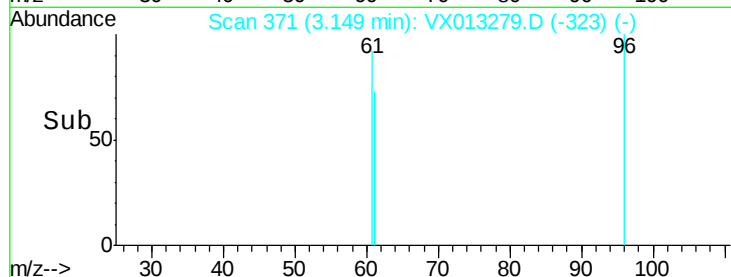
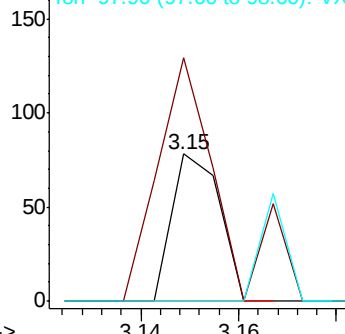
98 0.0 53.0 79.4#



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



#25

2-Butanone

Concen: 0.833 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013279.D

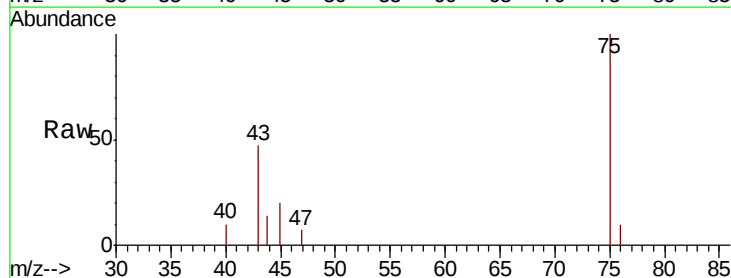
Acq: 30 Oct 2019 11:46

Tgt Ion: 43 Resp: 796

Ion Ratio Lower Upper

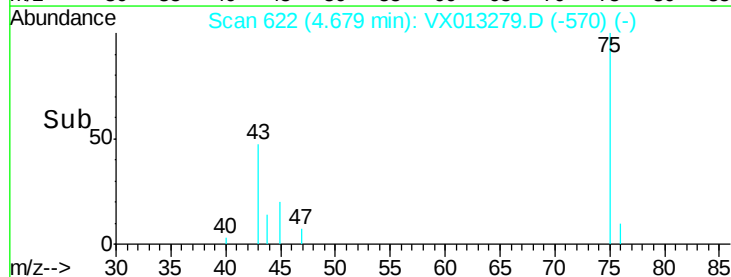
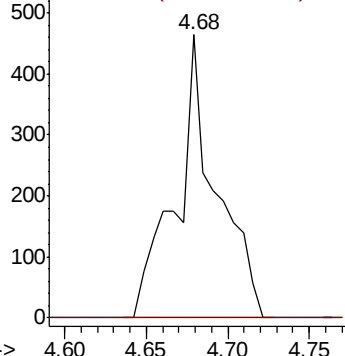
43 100

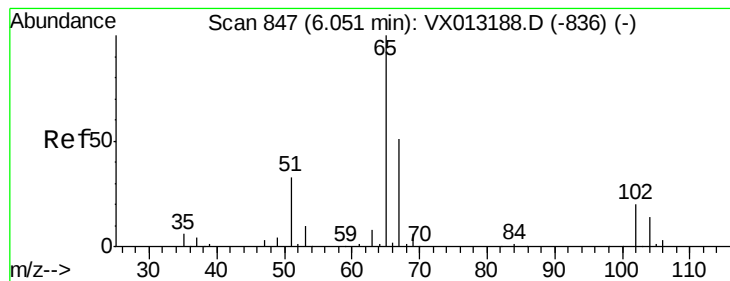
72 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.331 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

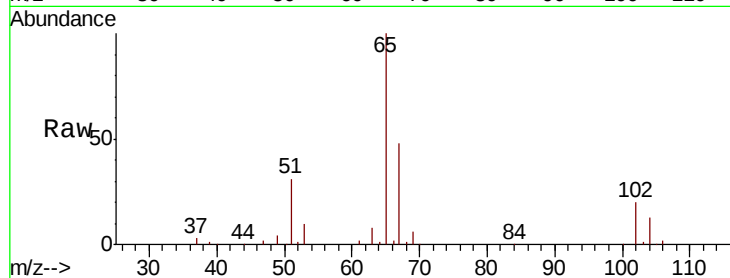
ClientSampleId :

Tot Ion: 65 Resp: 77668

Ion Ratio Lower Upper

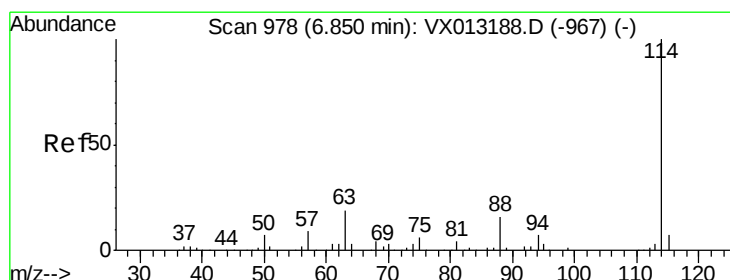
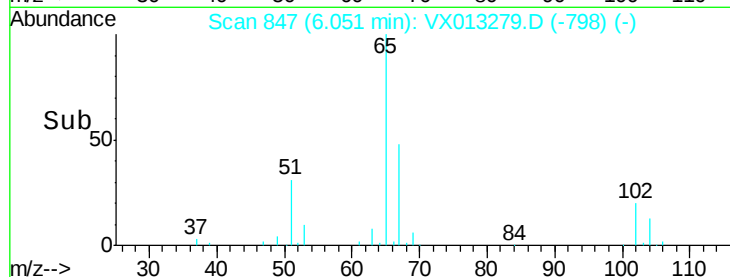
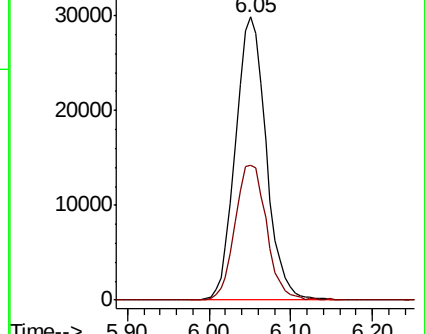
65 100

67 48.9 0.0 102.6



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# 978

Delta R.T. -0.00 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

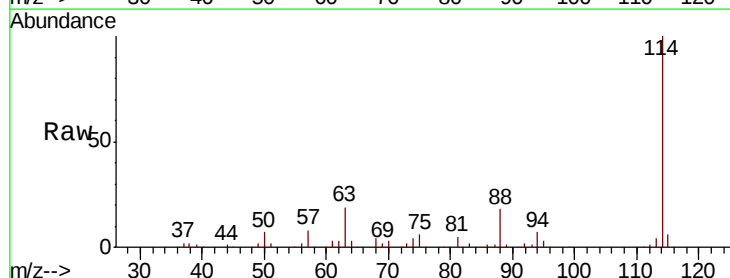
Tgt Ion: 114 Resp: 100938

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

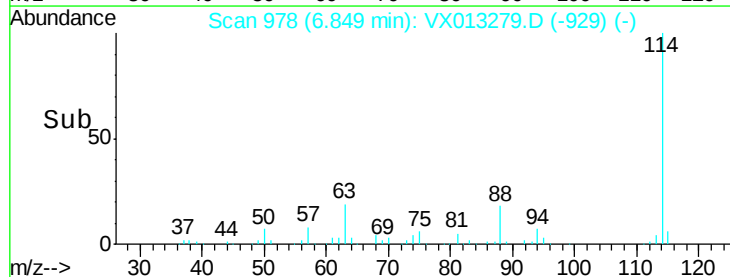
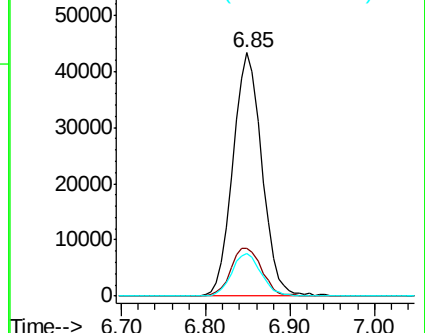
88 17.7 0.0 32.0

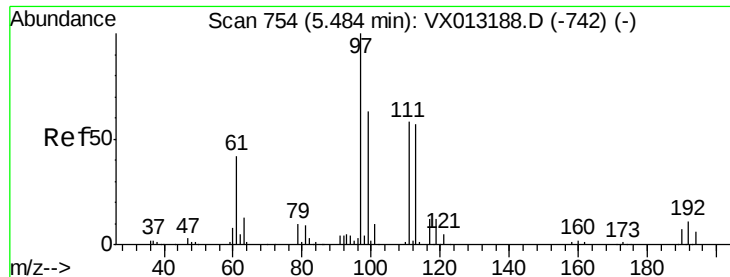


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.905 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

ClientSampled :

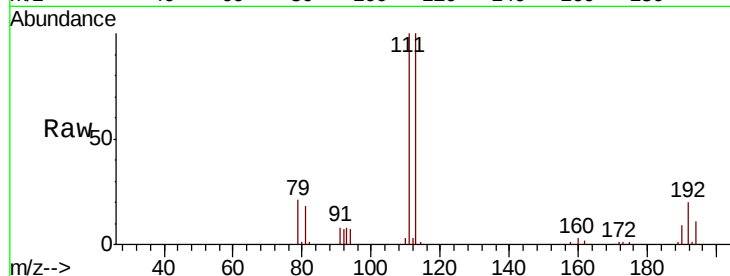
Tot Ion:113 Resp: 58424

Ion Ratio Lower Upper

113 100

111 101.6 80.3 120.5

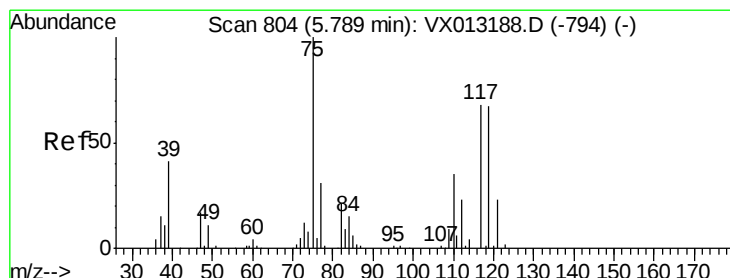
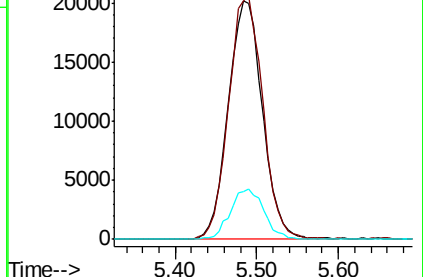
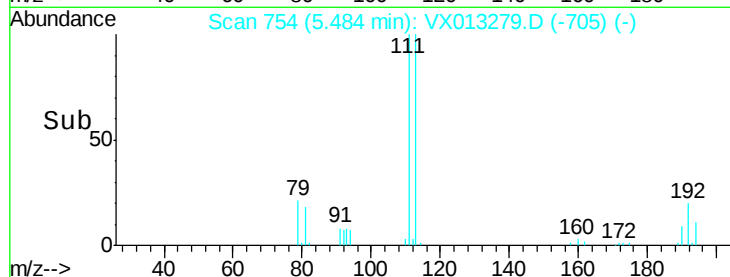
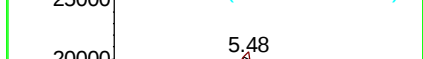
192 20.8 15.9 23.9



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: 2.960 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

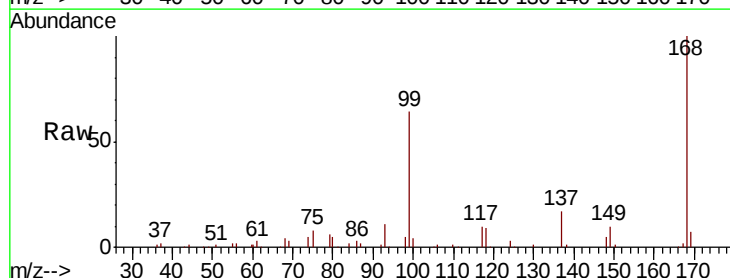
Tgt Ion: 75 Resp: 5123

Ion Ratio Lower Upper

75 100

110 9.8 17.6 52.9#

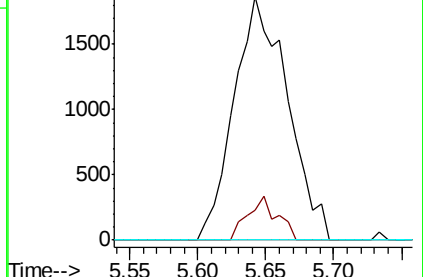
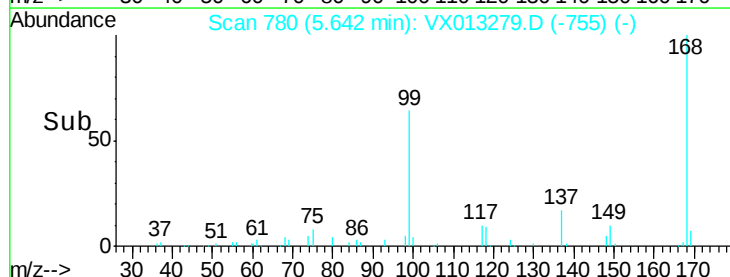
77 0.0 24.7 37.1#

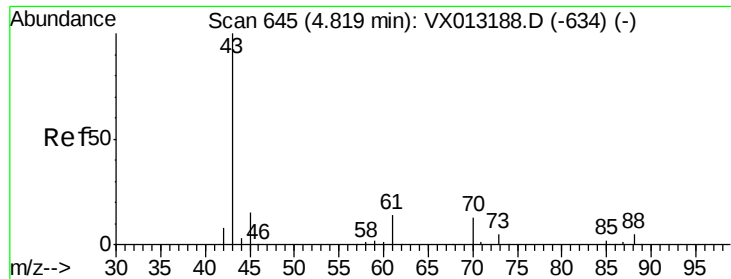


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

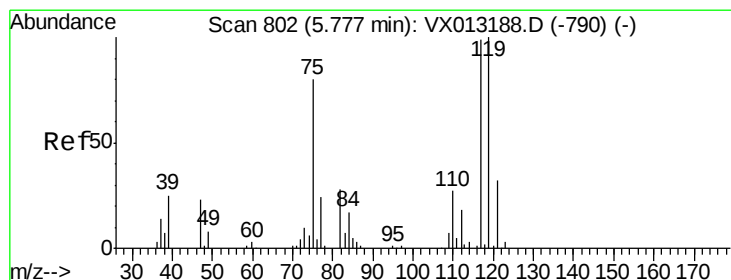
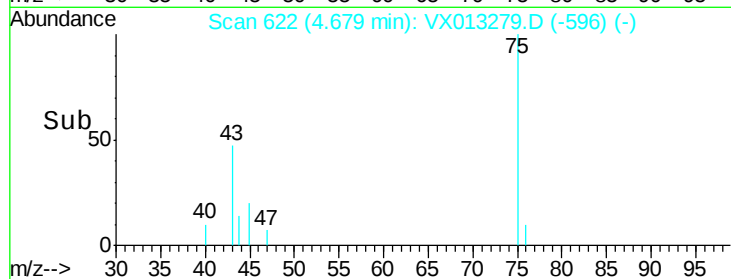
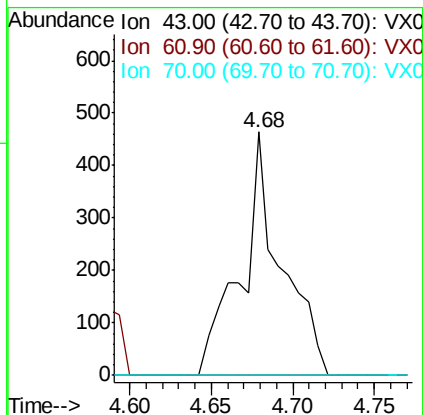
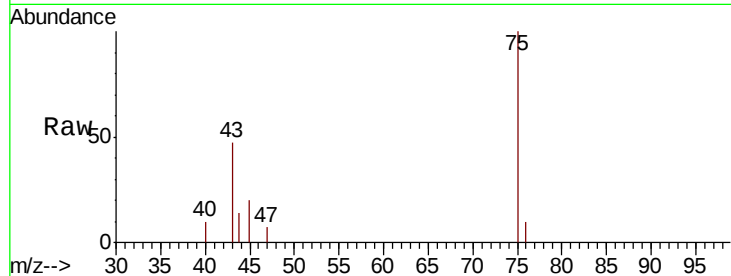




#37
Ethyl Acetate
Concen: 0.473 ug/l
RT: 4.68 min Scan# 622
Delta R.T. -0.14 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

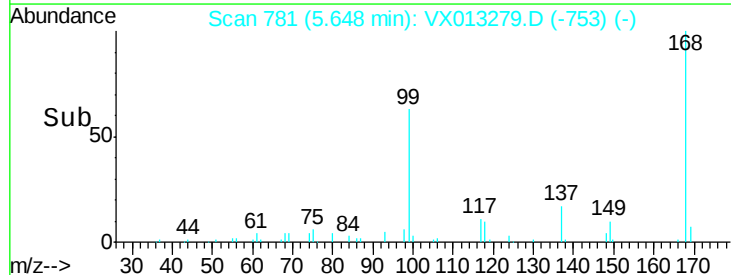
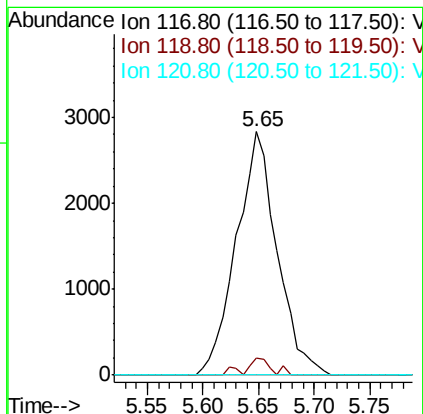
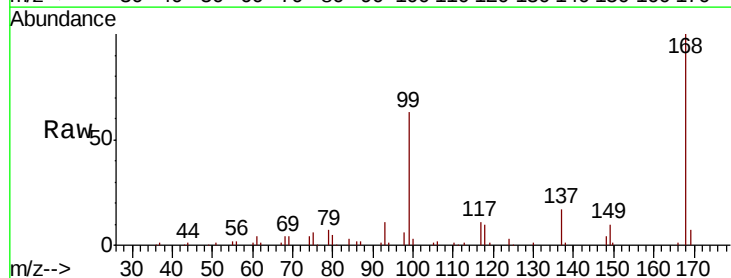
Instrument :
MSVOA_X
ClientSampleId :

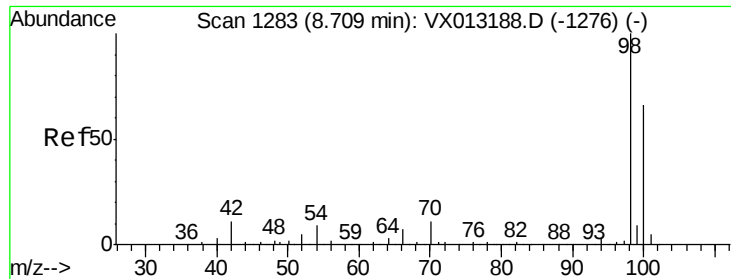
Tot Ion: 43 Resp: 796
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.0 10.4 15.6#



#38
Carbon Tetrachloride
Concen: 3.856 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Tgt Ion: 117 Resp: 7194
Ion Ratio Lower Upper
117 100
119 7.0 80.1 120.1#
121 0.0 25.5 38.3#





#50

Toluene-d8

Concen: 48.762 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

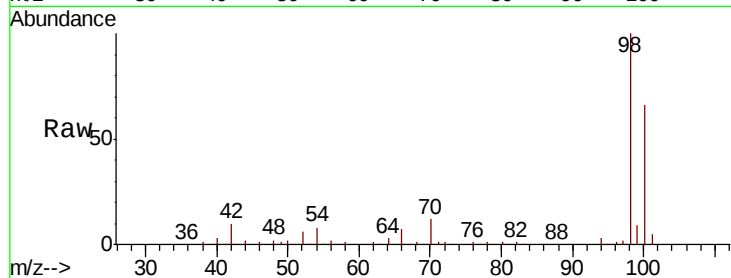
ClientSampled :

Tot Ion: 98 Resp: 203404

Ion Ratio Lower Upper

98 100

100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

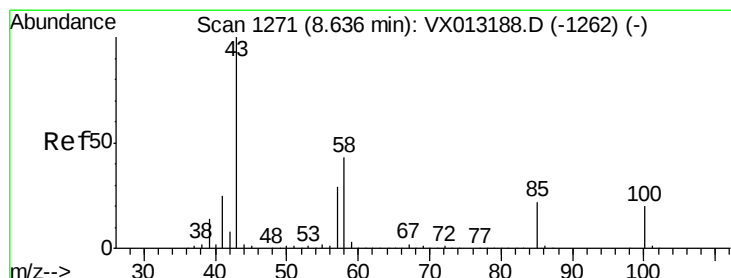
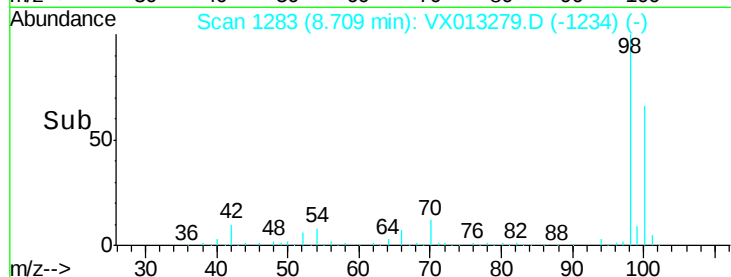
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.235 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX013279.D

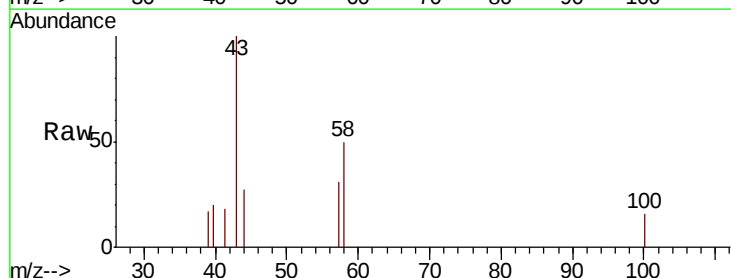
Acq: 30 Oct 2019 11:46

Tgt Ion: 43 Resp: 400

Ion Ratio Lower Upper

43 100

58 38.5 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.64

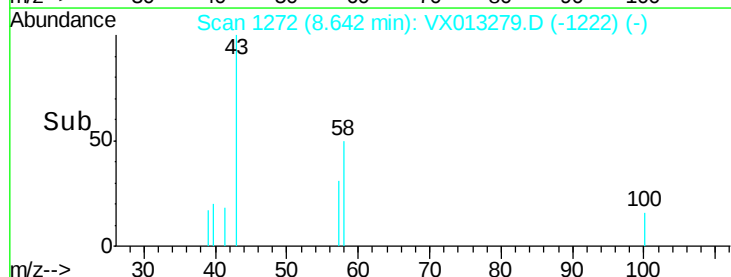
600

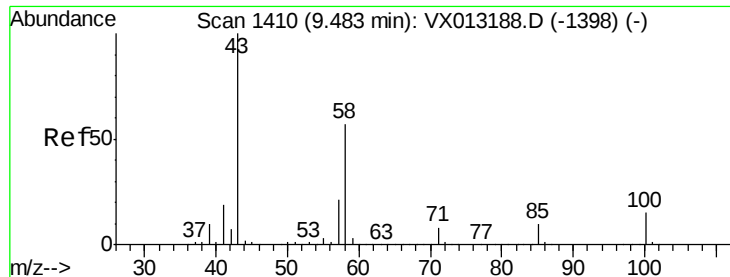
400

200

0

Time-->

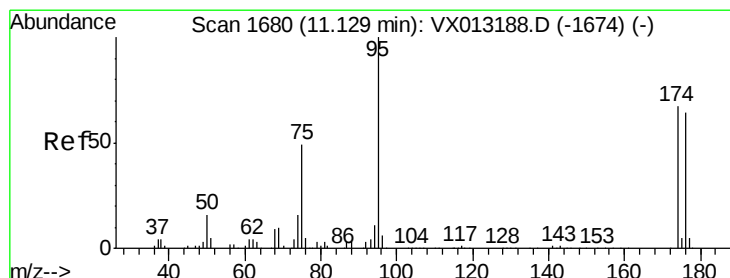
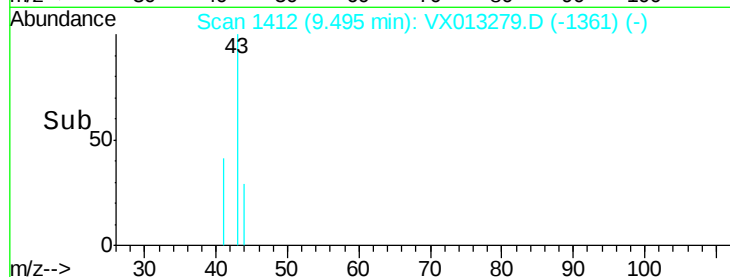
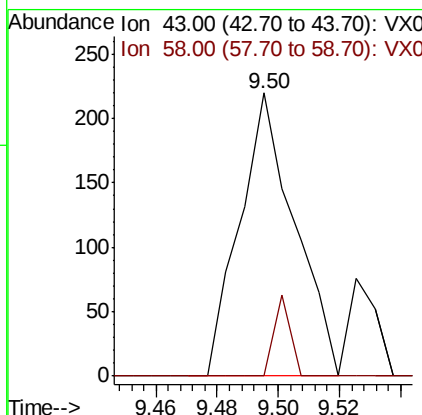
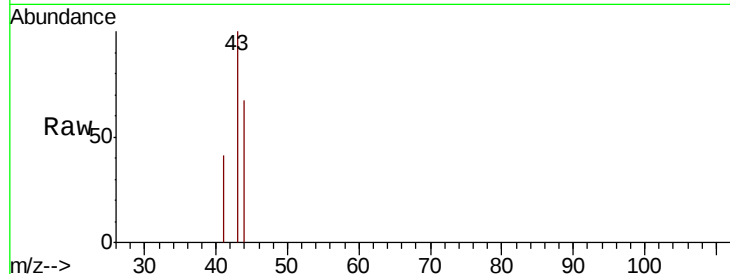




#59
2-Hexanone
Concen: 0.209 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

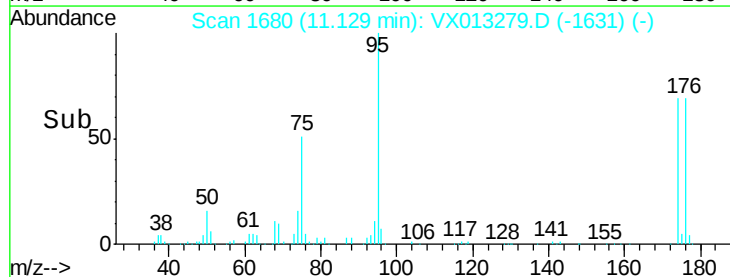
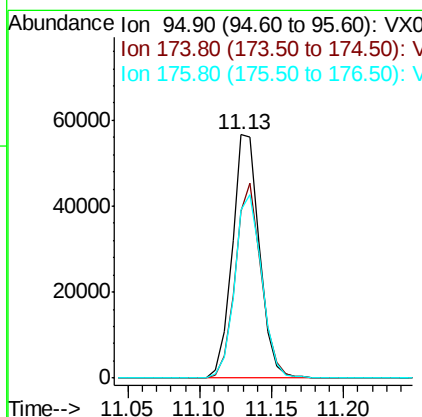
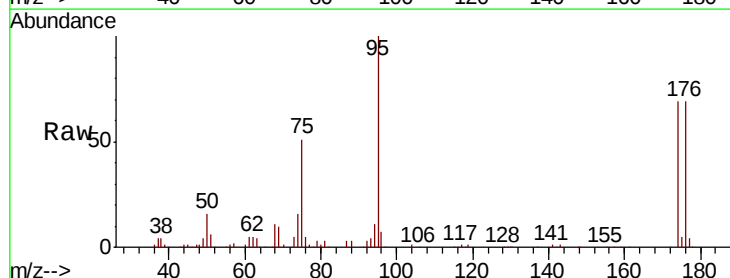
Instrument :
MSVOA_X
ClientSampleId :

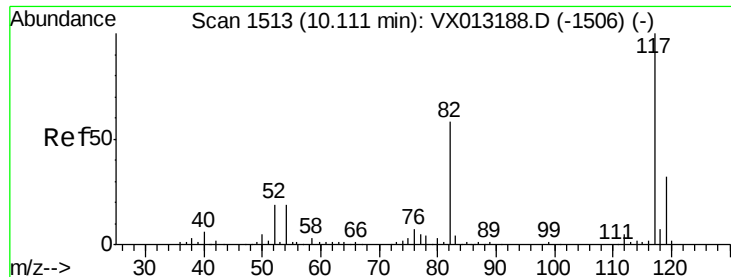
Tot Ion: 43 Resp: 274
Ion Ratio Lower Upper
43 100
58 8.4 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 45.460 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Tgt Ion: 95 Resp: 75056
Ion Ratio Lower Upper
95 100
174 76.1 0.0 152.4
176 74.7 0.0 146.0

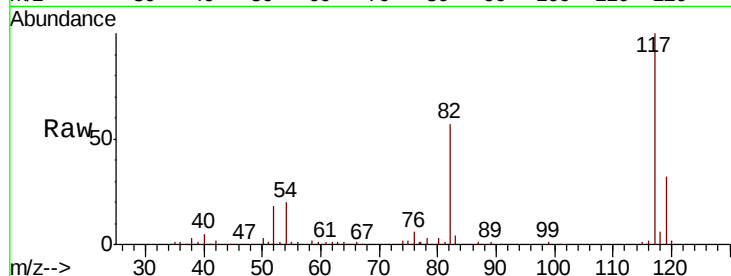




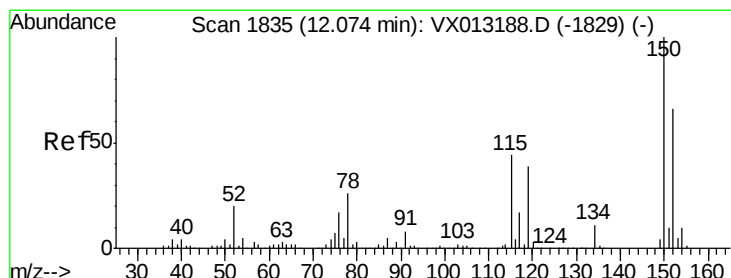
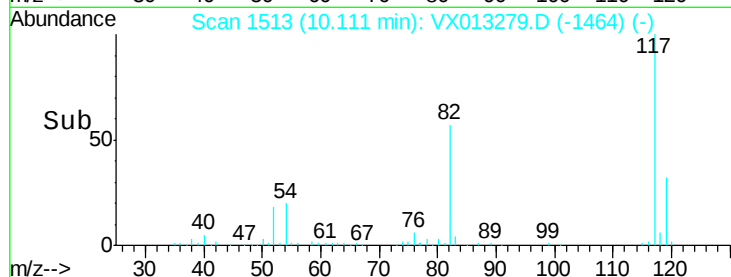
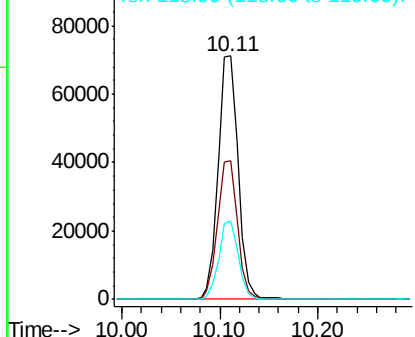
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 101267
Ion Ratio Lower Upper
117 100
82 57.1 46.5 69.7
119 32.1 25.2 37.8

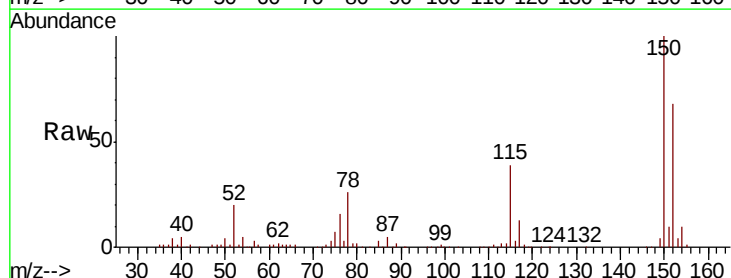


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

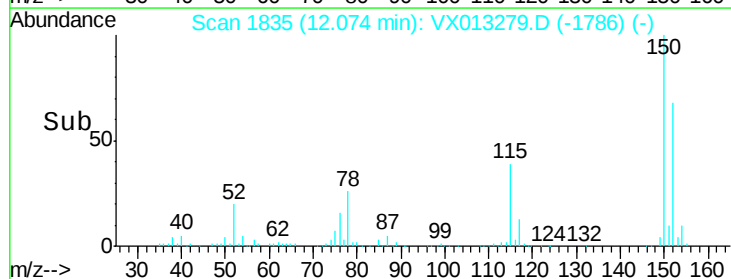
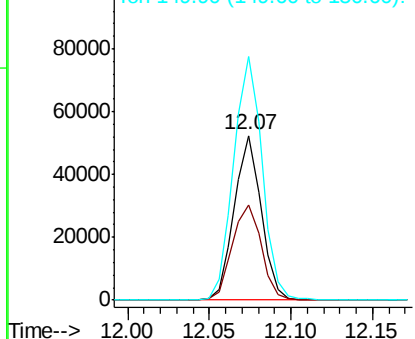


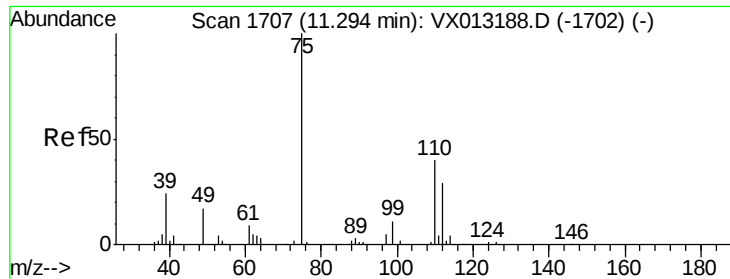
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013279.D
Acq: 30 Oct 2019 11:46

Tgt Ion:152 Resp: 60403
Ion Ratio Lower Upper
152 100
115 62.6 46.6 139.8
150 156.4 0.0 354.0



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: 26.016 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

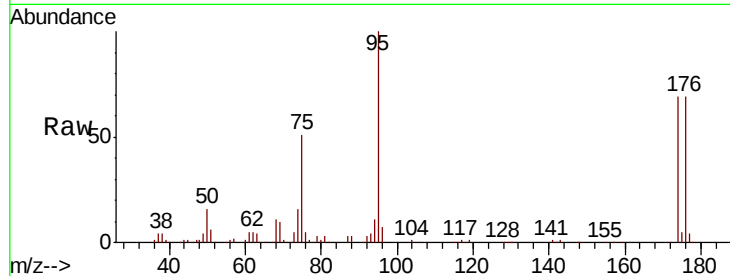
ClientSampleId :

Tot Ion: 75 Resp: 37874

Ion Ratio Lower Upper

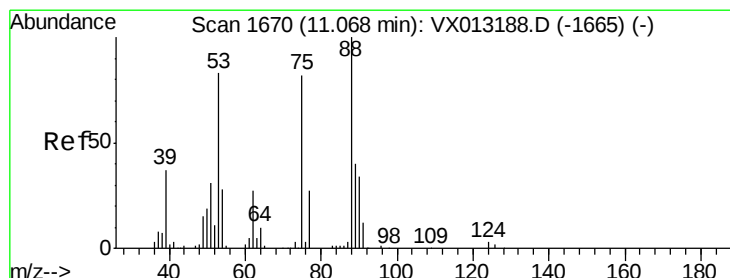
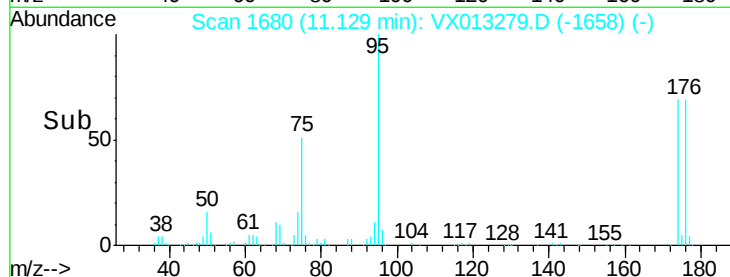
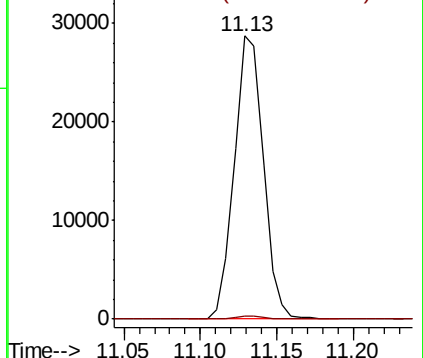
75 100

77 1.2 19.1 57.5#



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: 71.489 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

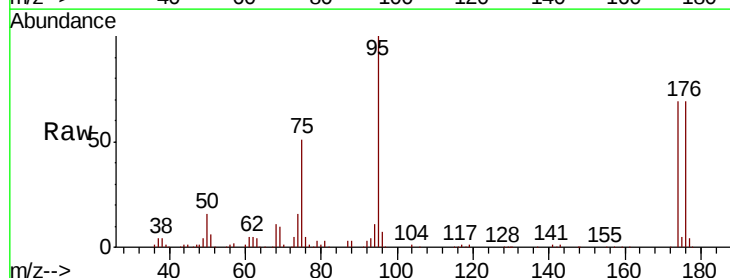
Tgt Ion: 75 Resp: 37874

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

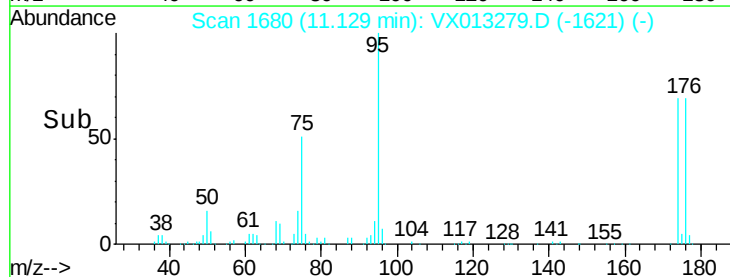
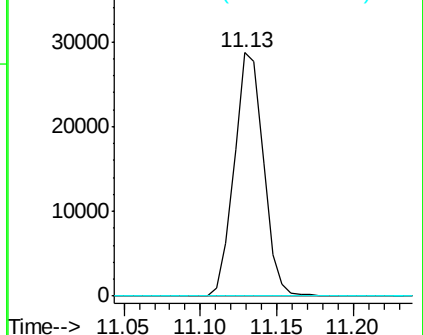
89 0.0 37.3 55.9#

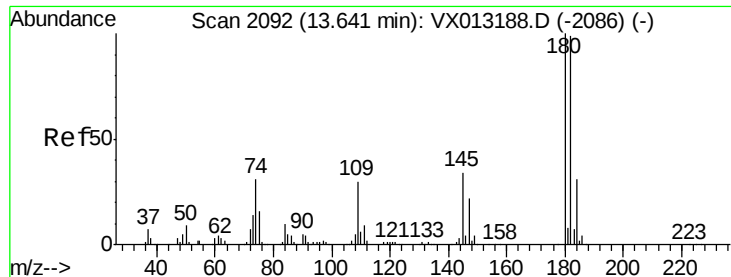


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.222 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

Instrument :

MSVOA_X

ClientSampleId :

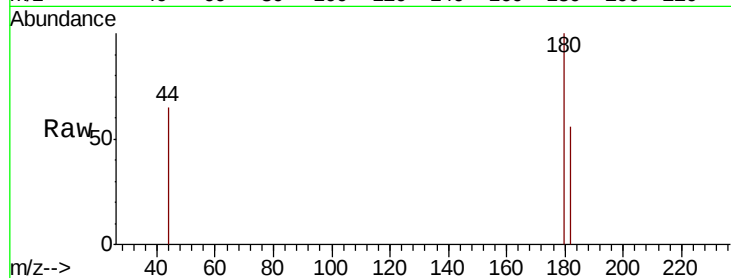
Tot Ion:180 Resp: 327

Ion Ratio Lower Upper

180 100

182 67.9 45.9 137.6

145 0.0 15.9 47.6#

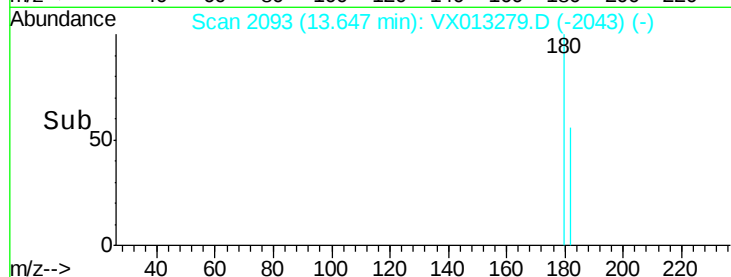


Abundance Ion 179.80 (179.50 to 180.50): V

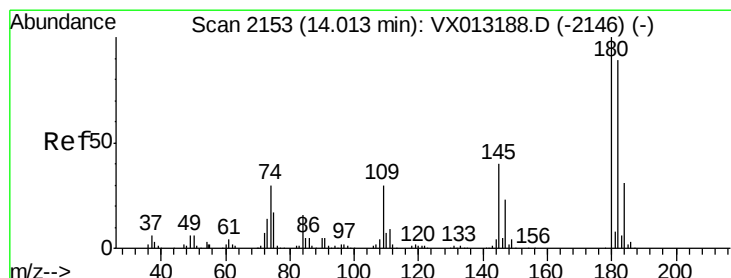
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.219 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX013279.D

Acq: 30 Oct 2019 11:46

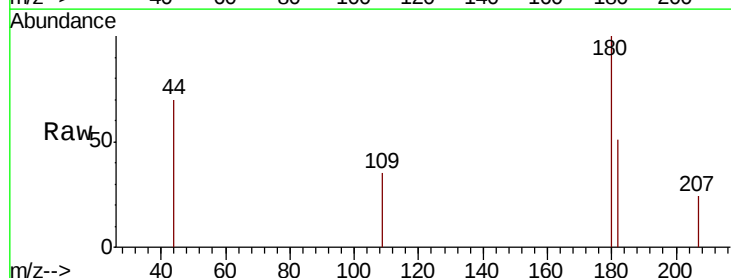
Tgt Ion:180 Resp: 318

Ion Ratio Lower Upper

180 100

182 58.8 48.3 144.9

145 0.0 18.6 55.6#

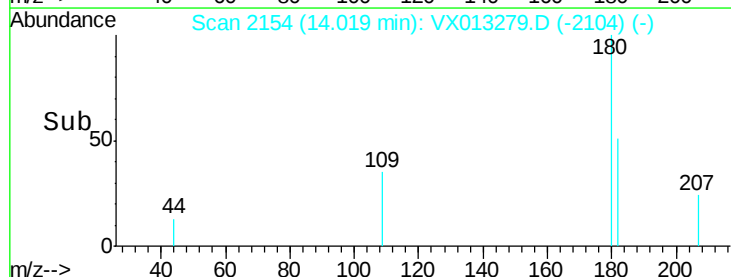


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

Time-->



Time-->