

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013288.D
 Acq On : 30 Oct 2019 16:22
 Operator : JC/SP
 Sample : K5602-08RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:41:42 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	69111	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	98886	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	97729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	65145	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	74432	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	8.71	98	194337	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	
62) 4-Bromofluorobenzene	11.14	95	74528	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	

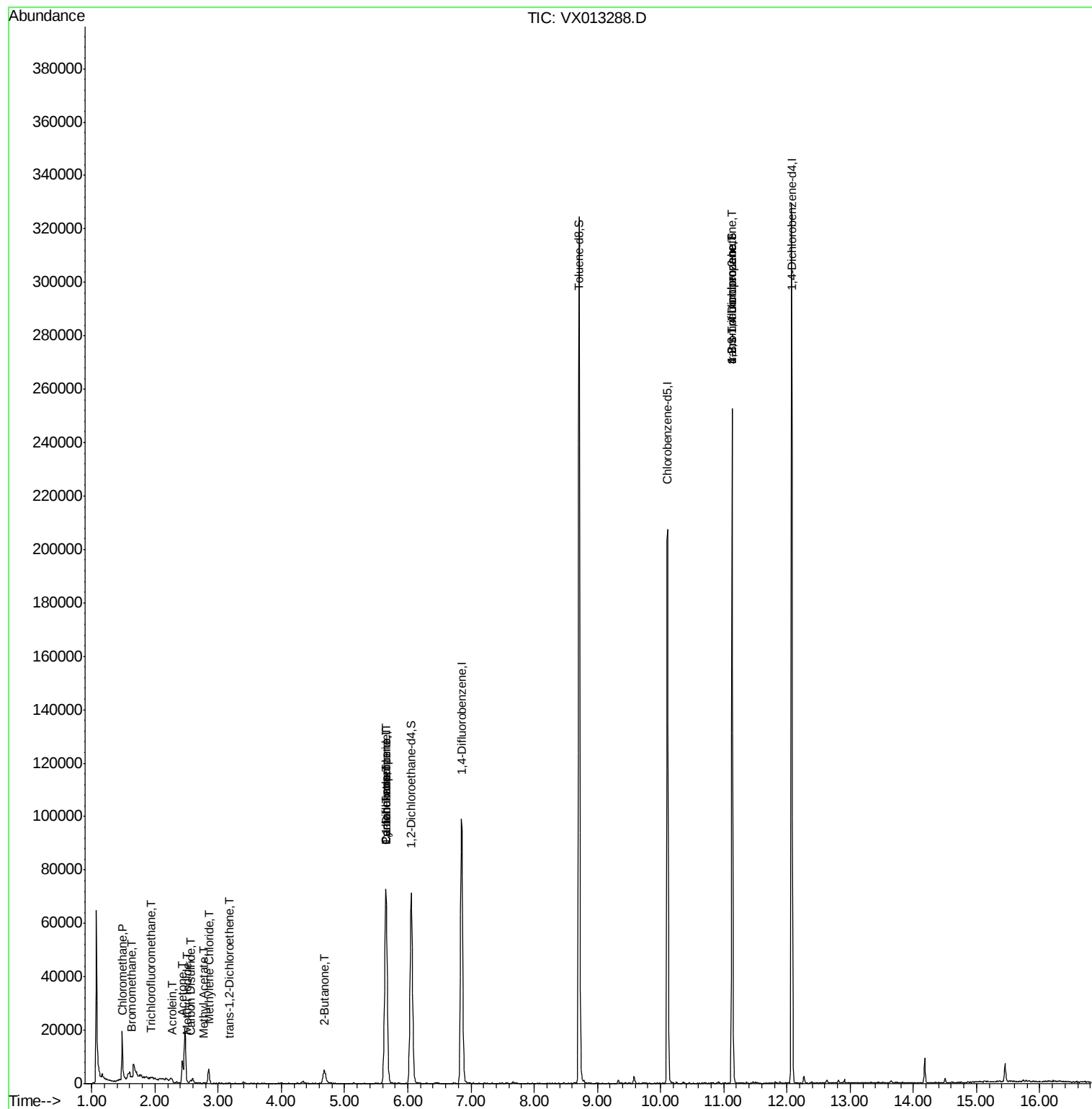
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.50	50	20	0.994	ug/l #	40
5) Bromomethane	1.64	94	159	0.239	ug/l	98
6) Chloroethane	1.61	64	45	Below Cal	#	43
7) Trichlorofluoromethane	1.94	101	66	0.332	ug/l #	17
10) Methyl Iodide	2.51	142	306	3.724	ug/l #	40
11) Tert butyl alcohol	3.03	59	77	Below Cal	#	72
13) Acrolein	2.28	56	159	0.938	ug/l #	31
16) Acetone	2.43	43	8707	12.786	ug/l	98
17) Carbon Disulfide	2.56	76	1706	0.539	ug/l #	93
18) Methyl Acetate	2.77	43	226	1.118	ug/l #	49
20) Methylene Chloride	2.85	84	2511	2.249	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	65	0.529	ug/l #	1
25) 2-Butanone	4.68	43	1729	1.893	ug/l #	87
31) Cyclohexane	5.65	56	1306	0.699	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	5308	3.135	ug/l #	50
38) Carbon Tetrachloride	5.65	117	7341	4.016	ug/l #	13
64) Tetrachloroethene	9.34	164	83	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.13	75	36099	22.991	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	36099	63.179	ug/l #	10

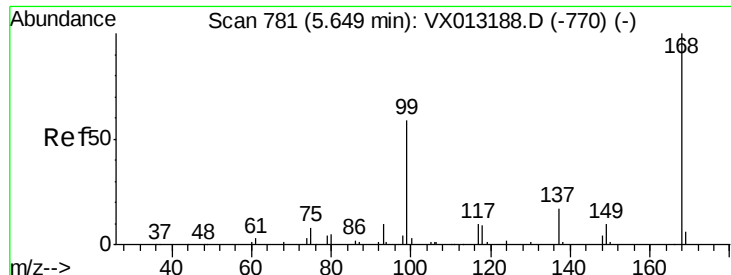
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

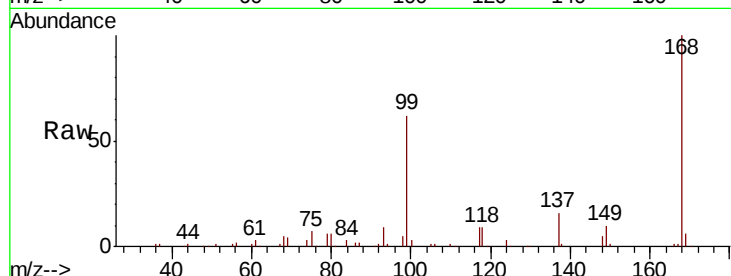
ClientSampled :

Tot Ion:168 Resp: 69111

Ion Ratio Lower Upper

168 100

99 61.9 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

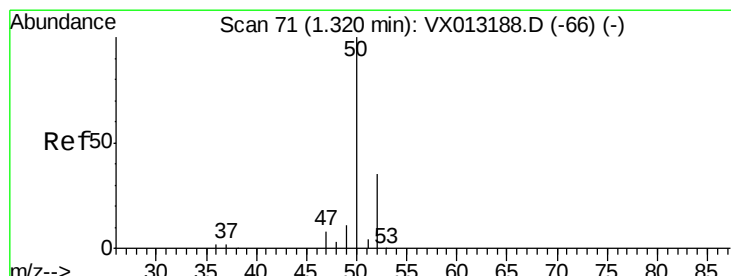
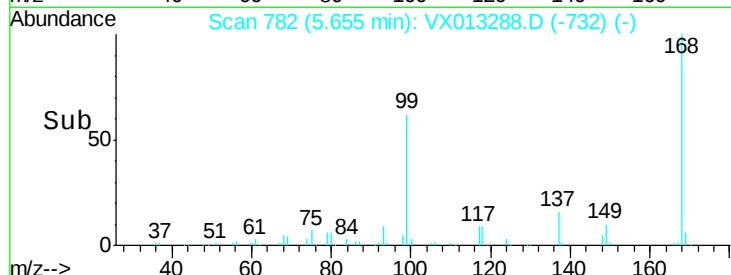
15000

10000

5000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.994 ug/l

RT: 1.50 min Scan# 100

Delta R.T. 0.18 min

Lab File: VX013288.D

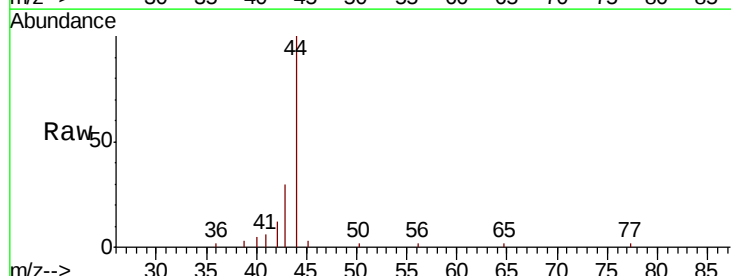
Acq: 30 Oct 2019 16:22

Tgt Ion: 50 Resp: 20

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

1.50

80

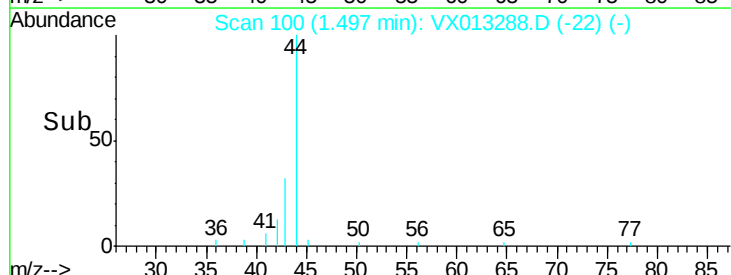
60

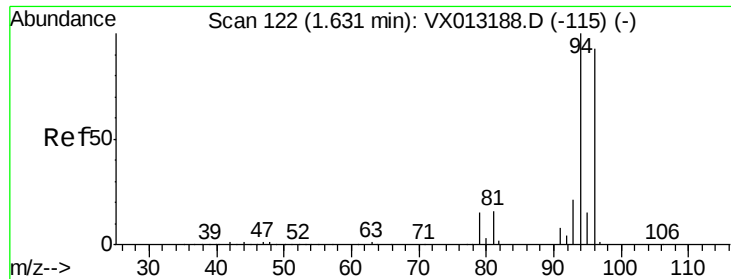
40

20

0

Time--> 1.48 1.49 1.50 1.51





#5

Bromomethane

Concen: 0.239 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

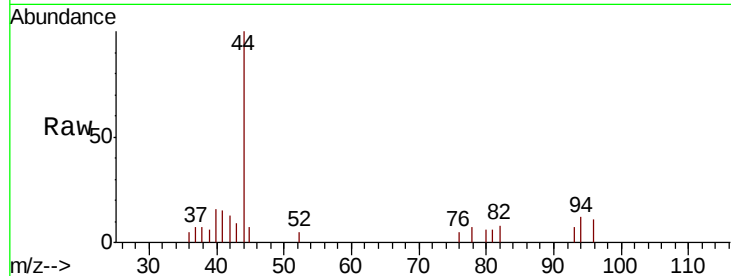
ClientSampleId :

Tot Ion: 94 Resp: 159

Ion Ratio Lower Upper

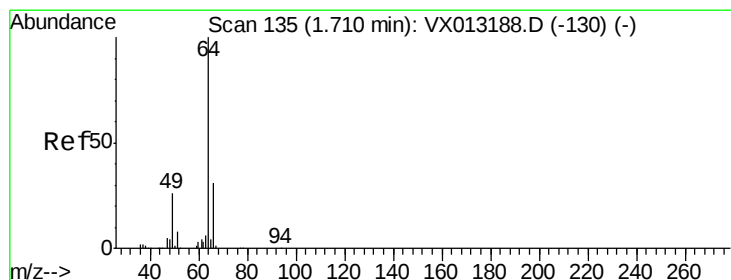
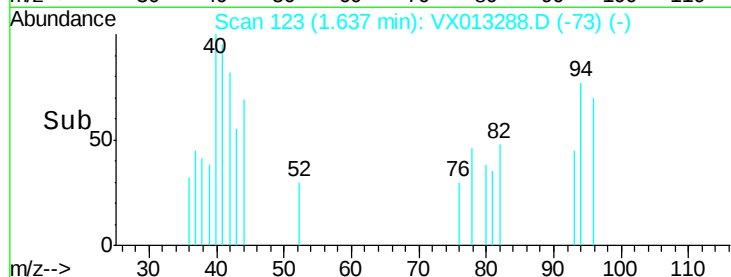
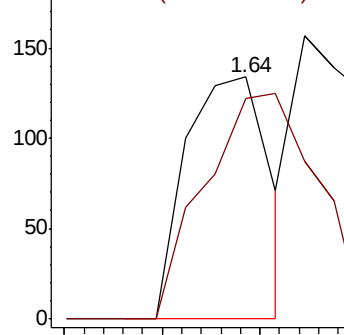
94 100

96 91.0 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.10 min

Lab File: VX013288.D

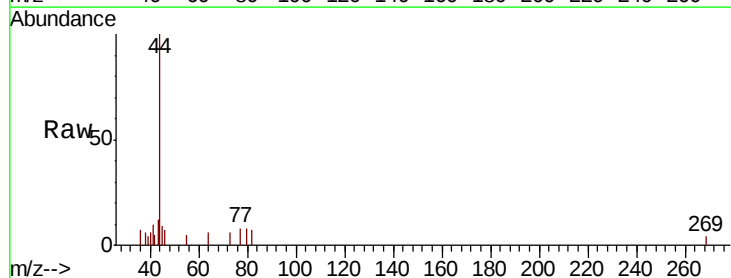
Acq: 30 Oct 2019 16:22

Tgt Ion: 64 Resp: 45

Ion Ratio Lower Upper

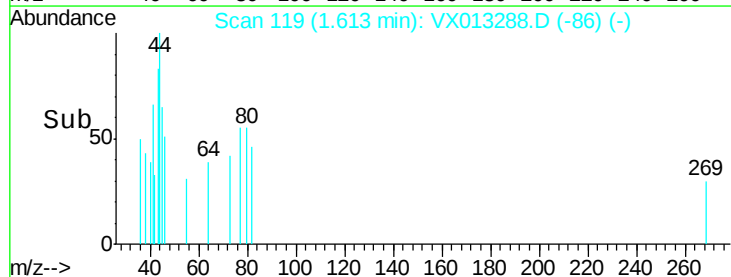
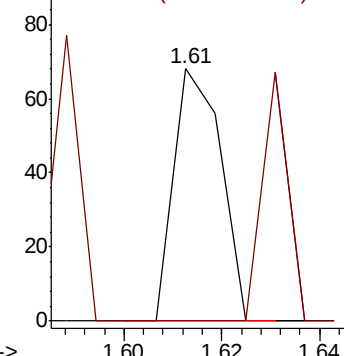
64 100

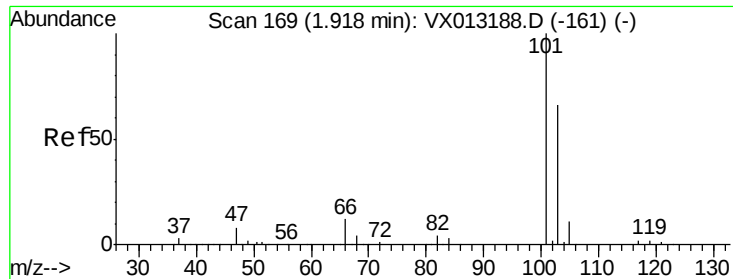
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



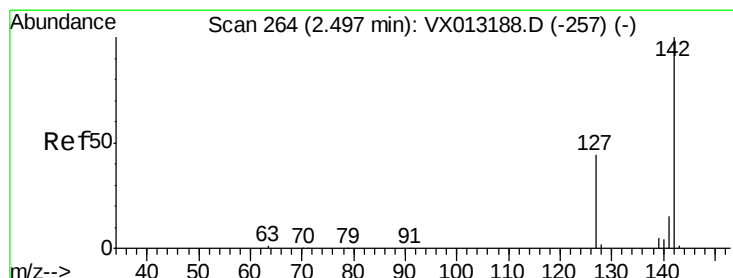
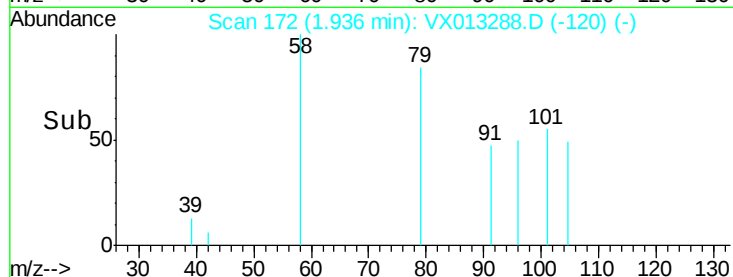
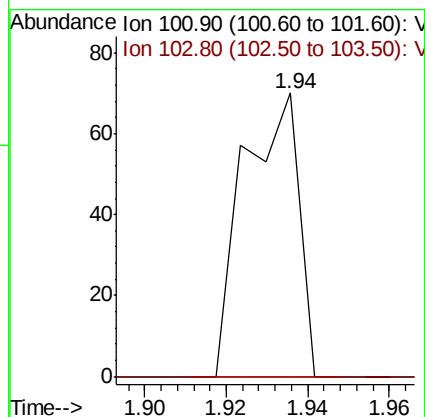
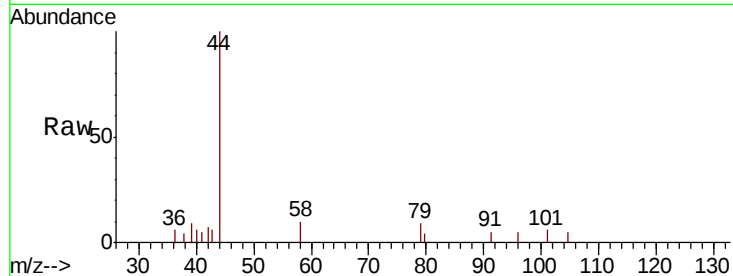


#7

Trichlorofluoromethane
Concen: 0.332 ug/l
RT: 1.94 min Scan# 172
Delta R.T. 0.02 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :

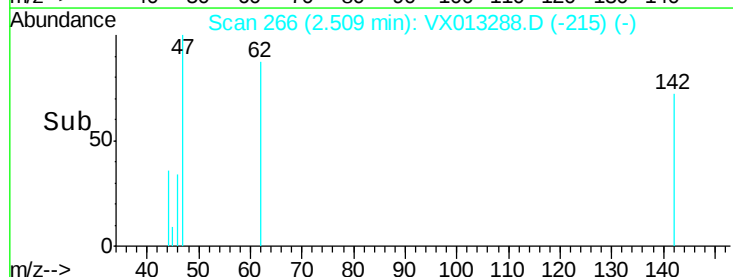
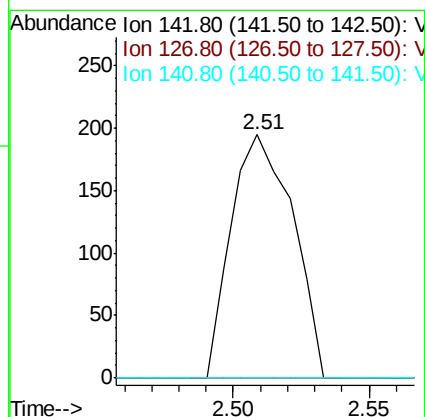
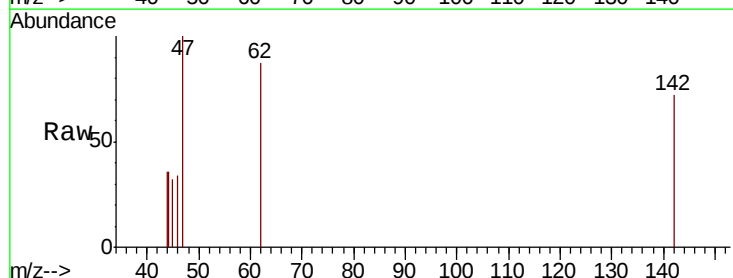
Tot Ion:101 Resp: 66
Ion Ratio Lower Upper
101 100
103 0.0 53.0 79.6#

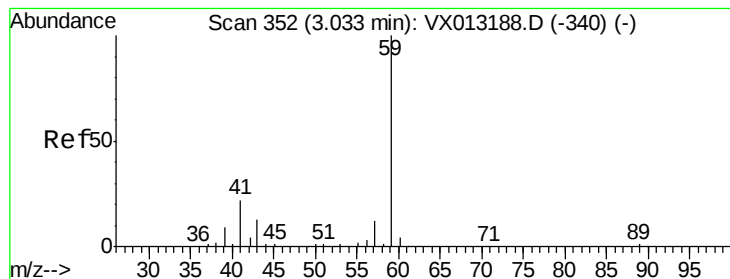


#10

Methyl Iodide
Concen: 3.724 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

Tgt Ion:142 Resp: 306
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.6 17.4#



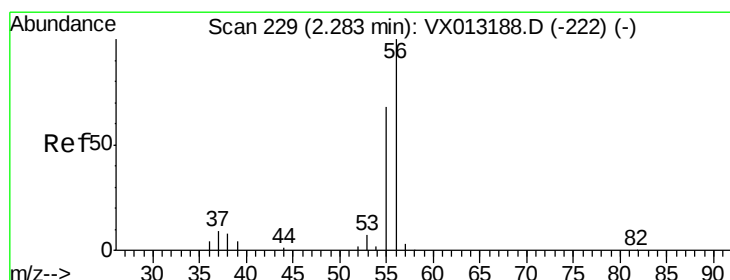
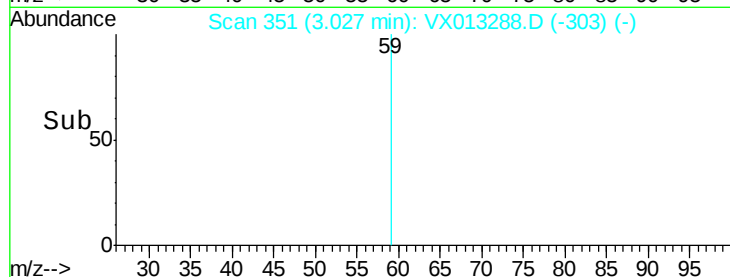
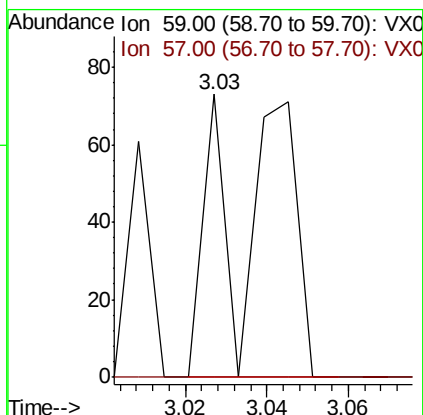
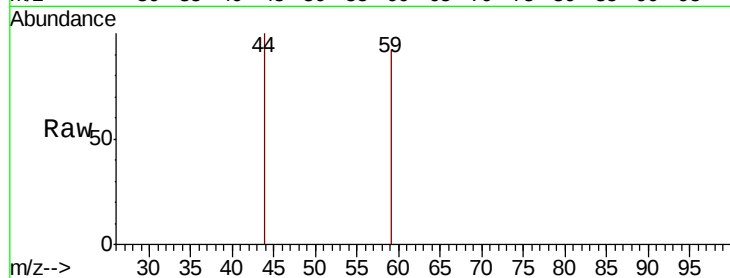


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX013288.D
 Acq: 30 Oct 2019 16:22

Instrument :
 MSVOA_X
 ClientSampleId :

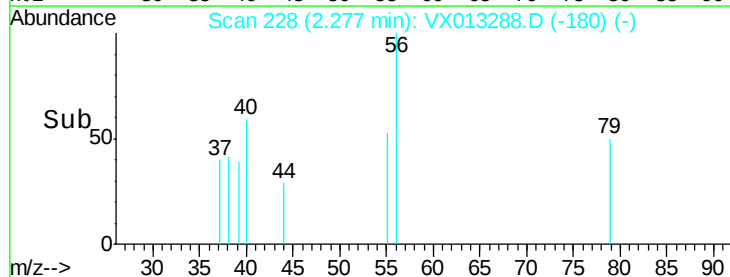
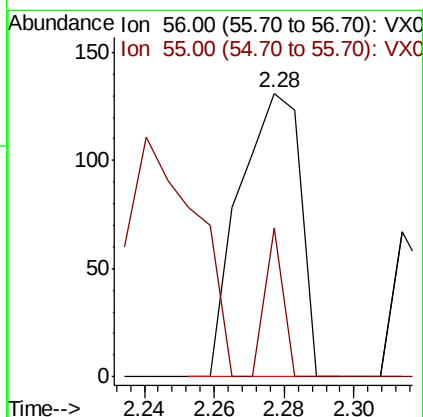
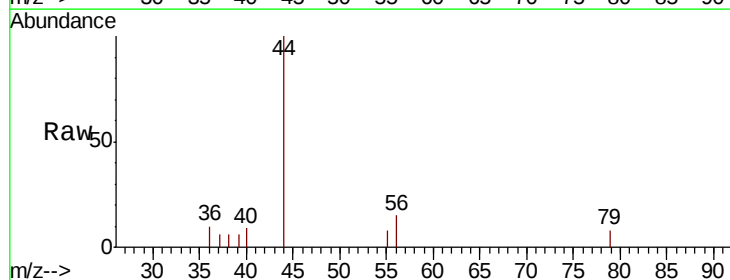
Tot Ion: 59 Resp: 77
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

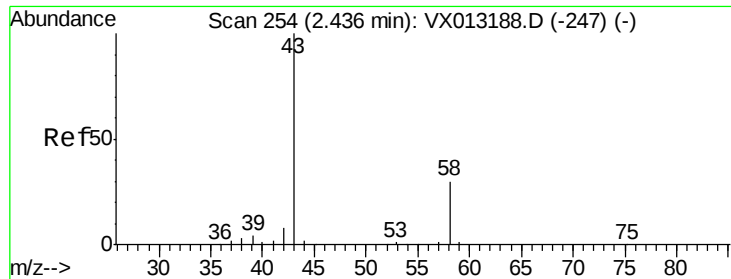


#13

Acrolein
 Concen: 0.938 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX013288.D
 Acq: 30 Oct 2019 16:22

Tgt Ion: 56 Resp: 159
 Ion Ratio Lower Upper
 56 100
 55 15.7 58.9 88.3#





#16

Acetone

Concen: 12.786 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

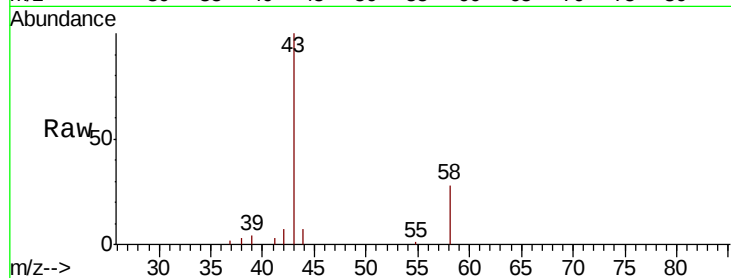
ClientSampleId :

Tot Ion: 43 Resp: 8707

Ion Ratio Lower Upper

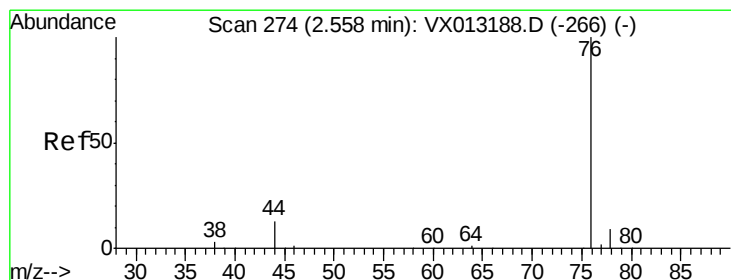
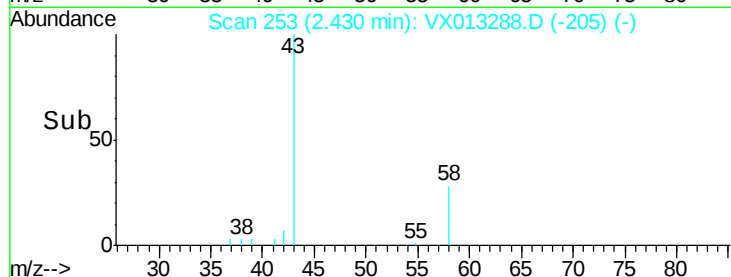
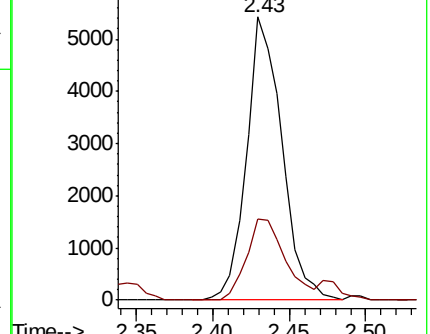
43 100

58 28.5 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.539 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013288.D

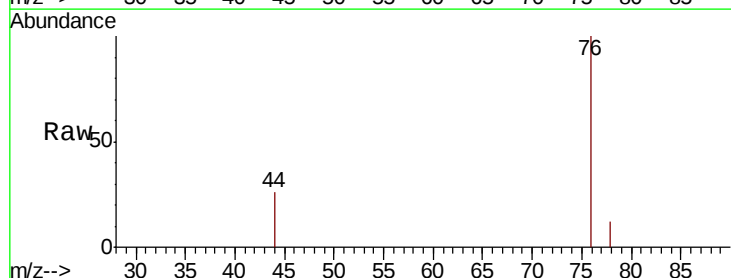
Acq: 30 Oct 2019 16:22

Tgt Ion: 76 Resp: 1706

Ion Ratio Lower Upper

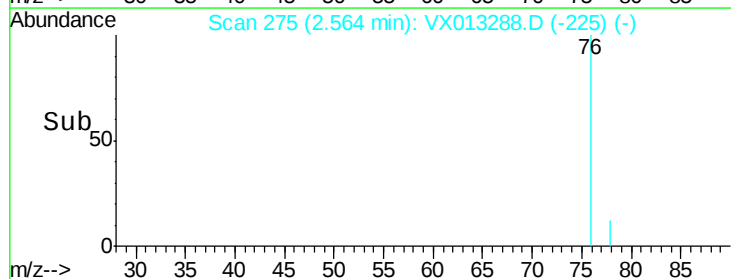
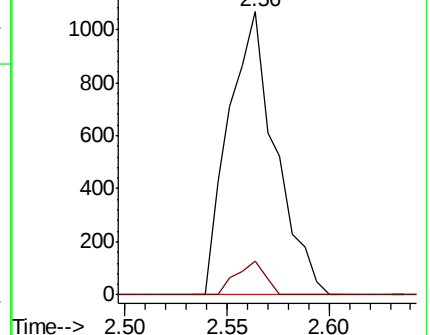
76 100

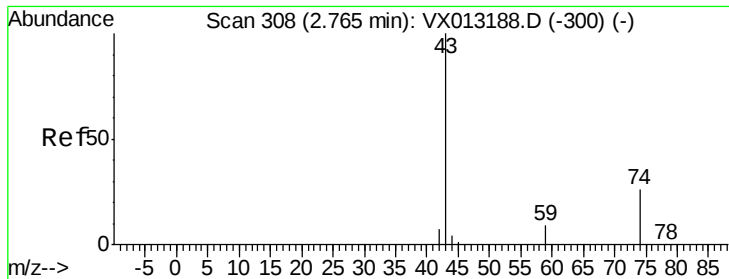
78 11.7 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

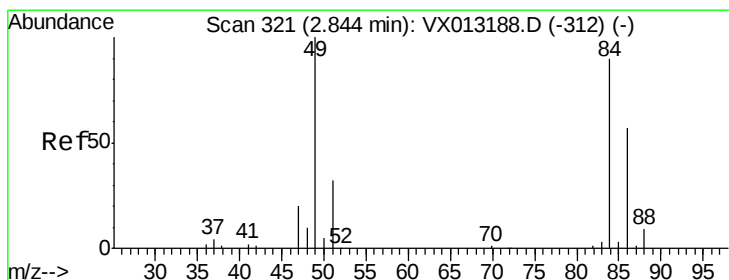
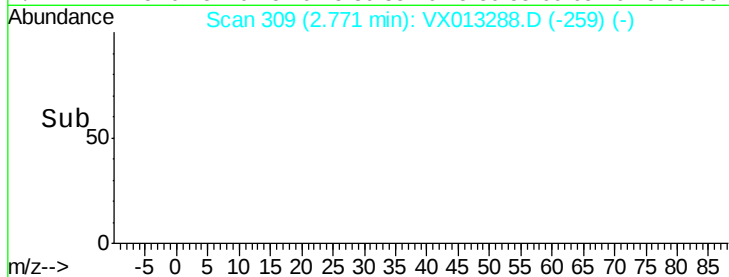
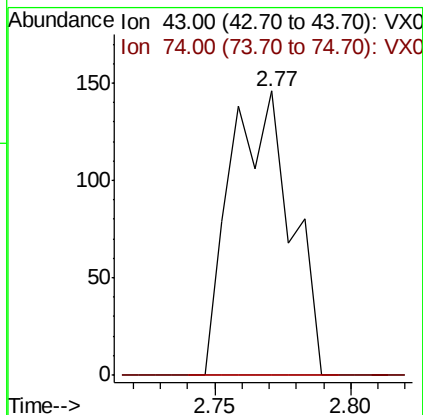
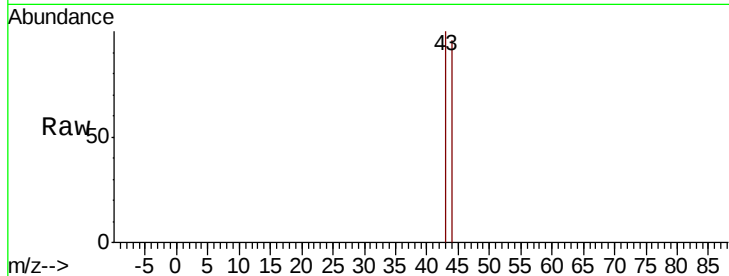




#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

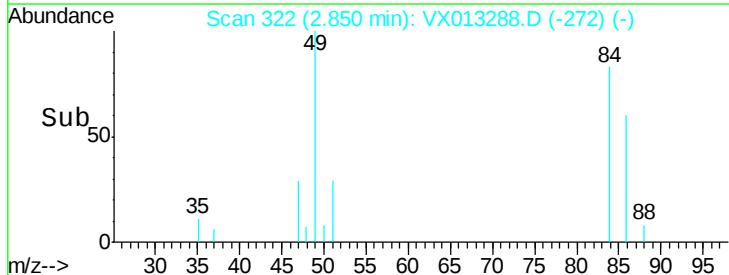
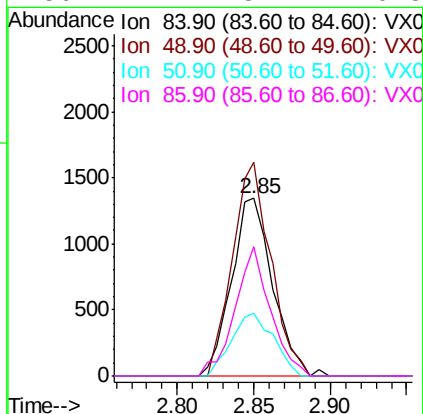
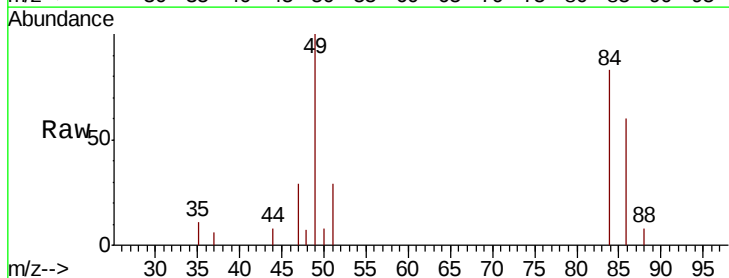
Instrument :
MSVOA_X
ClientSampleId :

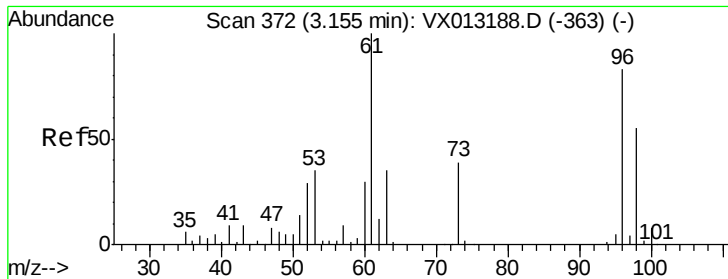
Tot Ion: 43 Resp: 226
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 2.249 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

Tgt Ion: 84 Resp: 2511
Ion Ratio Lower Upper
84 100
49 120.4 89.2 133.8
51 35.3 28.8 43.2
86 72.7 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 0.529 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.02 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

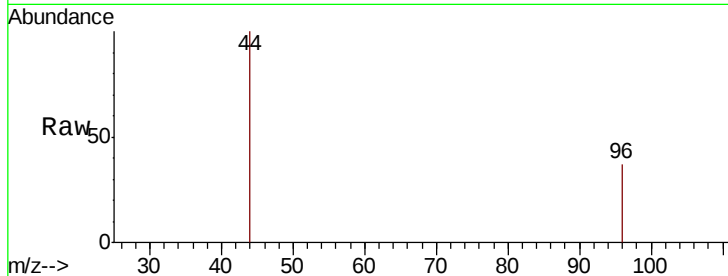
Tot Ion: 96 Resp: 65

Ion Ratio Lower Upper

96 100

61 0.0 96.9 145.3#

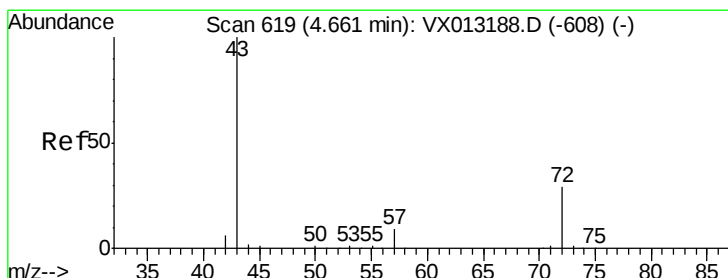
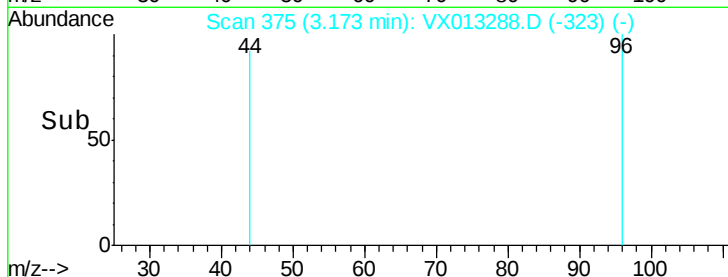
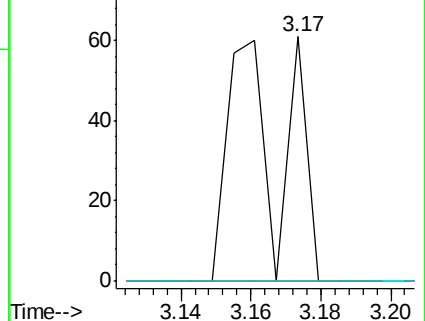
98 0.0 53.0 79.4#



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: 1.893 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013288.D

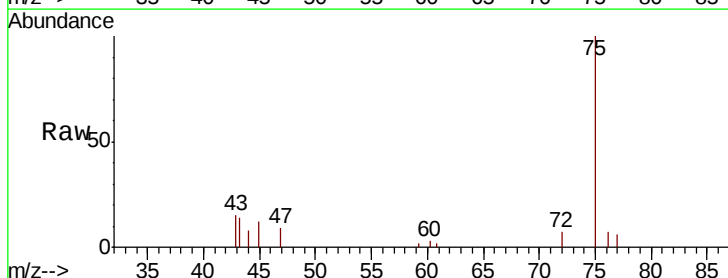
Acq: 30 Oct 2019 16:22

Tgt Ion: 43 Resp: 1729

Ion Ratio Lower Upper

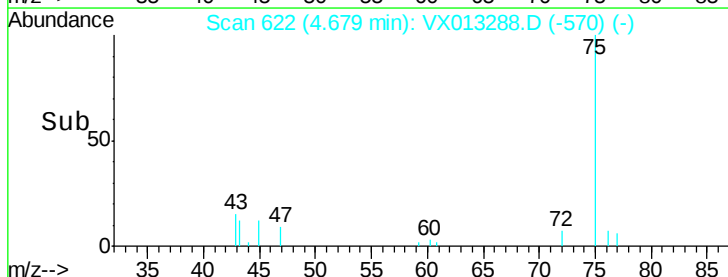
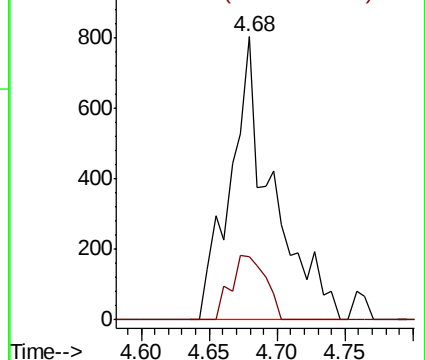
43 100

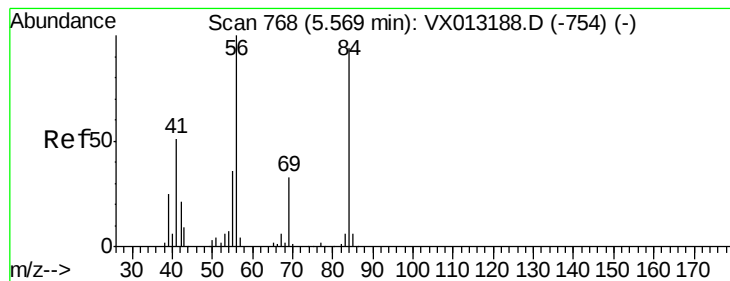
72 22.5 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 0.699 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

ClientSampled :

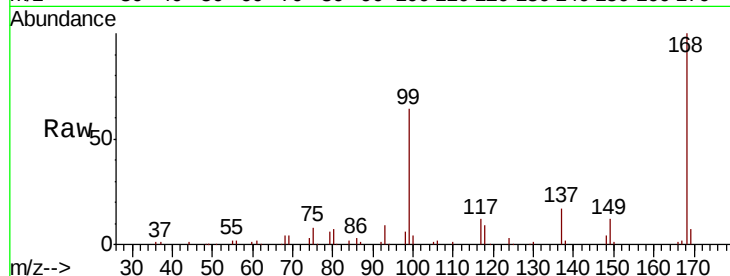
Tot Ion: 56 Resp: 1306

Ion Ratio Lower Upper

56 100

69 209.8 26.3 39.5#

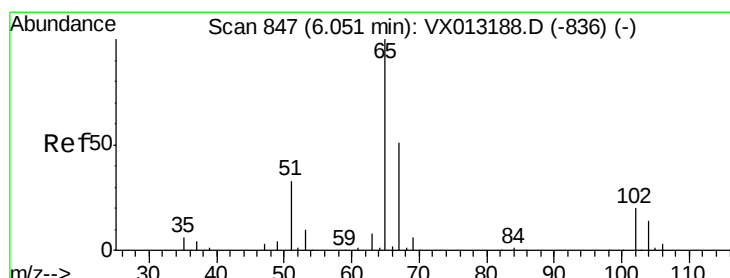
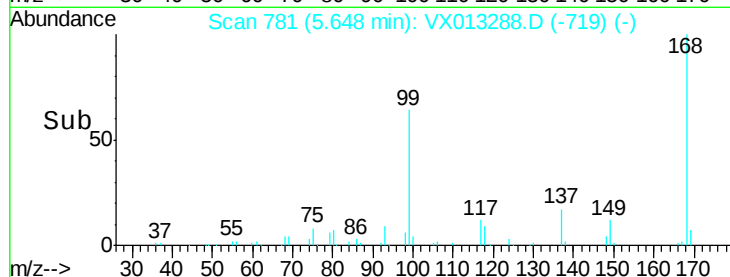
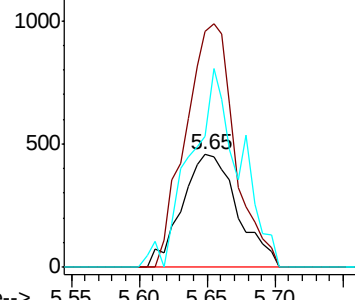
84 116.6 73.8 110.6#



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: 51.492 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013288.D

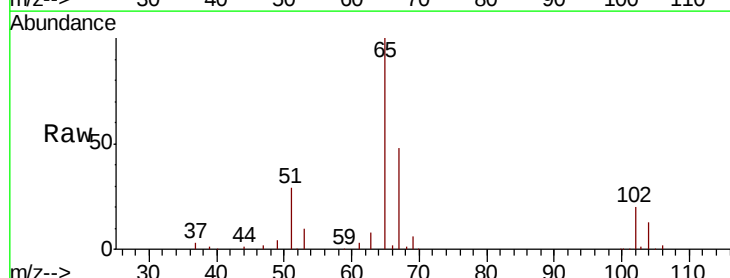
Acq: 30 Oct 2019 16:22

Tgt Ion: 65 Resp: 74432

Ion Ratio Lower Upper

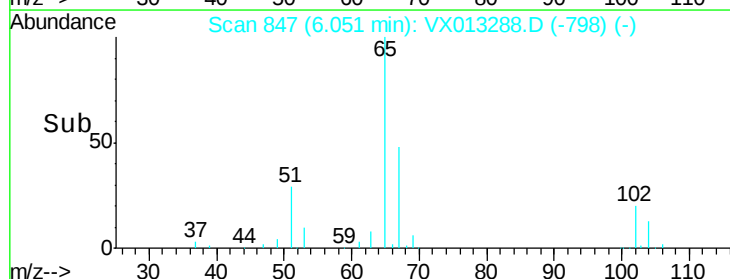
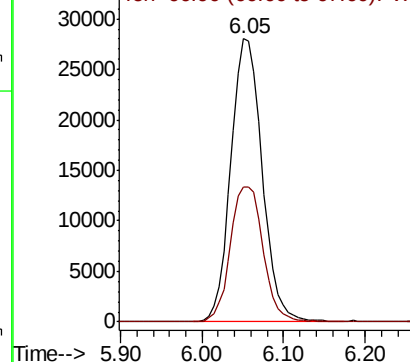
65 100

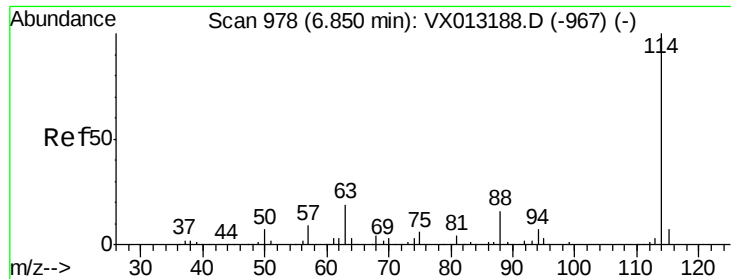
67 49.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

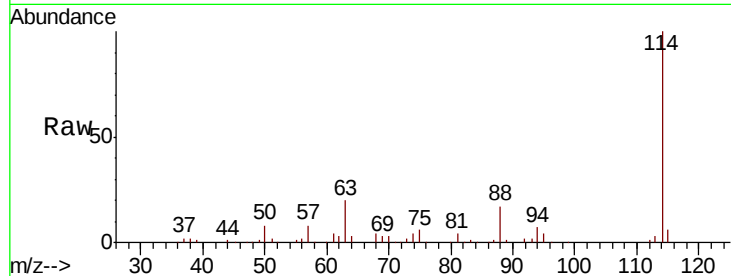




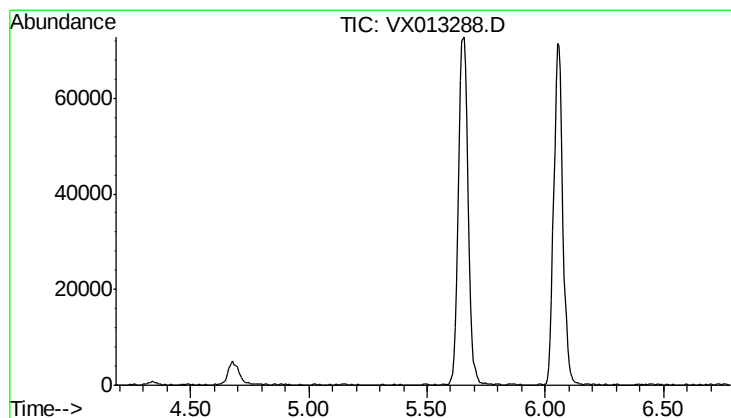
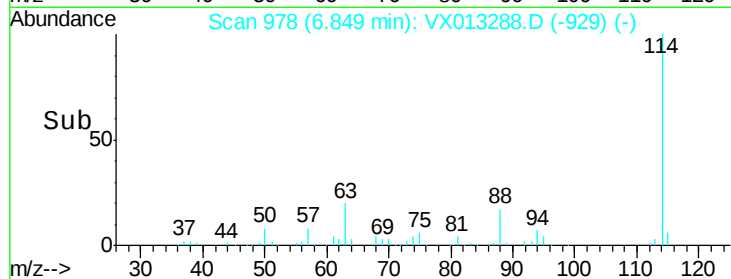
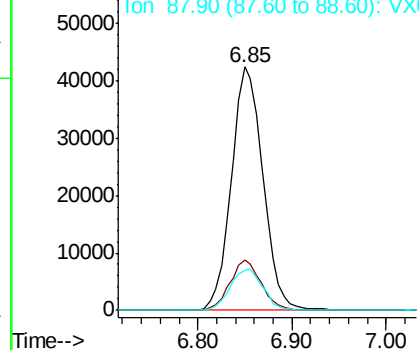
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013288.D
 Acq: 30 Oct 2019 16:22

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	39.0
88	16.6	0.0	32.0

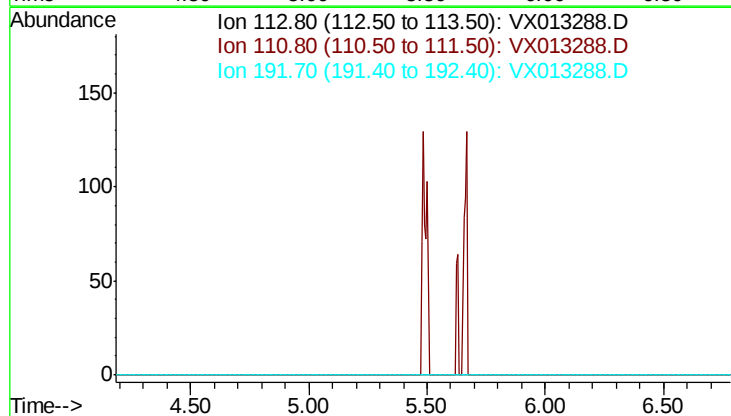


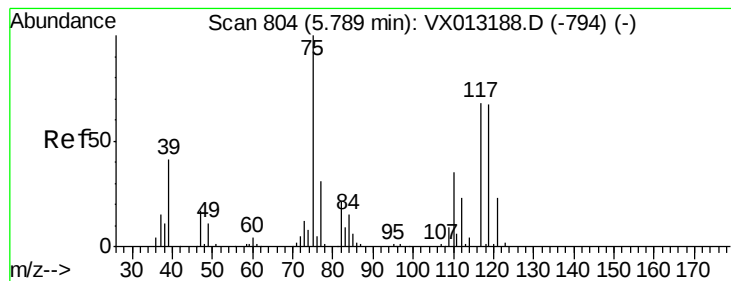
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 5.48 min
 Lab File: VX013288.D
 Acq: 30 Oct 2019 16:22

Tgt Ion	Sig	Exp Ratio
113	100	
111	100.4	
192	19.9	





#36

1,1-Dichloropropene

Concen: 3.135 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.13 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

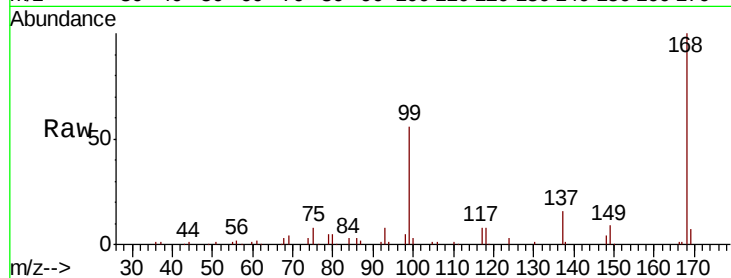
Tot Ion: 75 Resp: 5308

Ion Ratio Lower Upper

75 100

110 9.5 17.6 52.9#

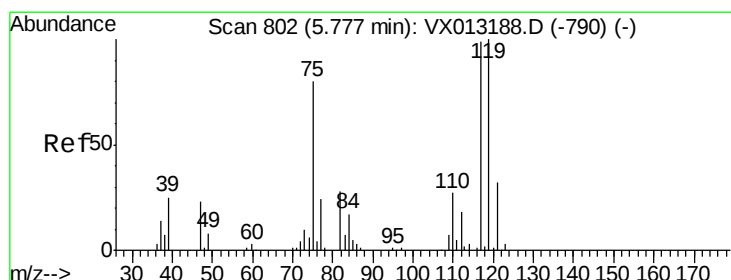
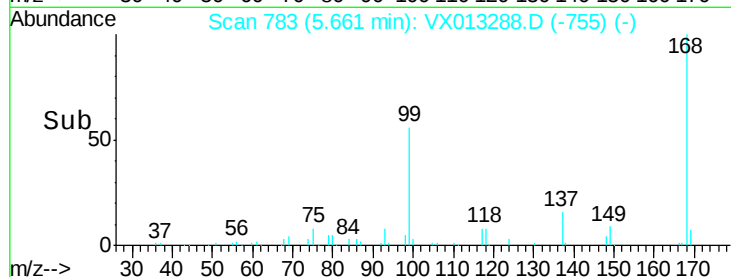
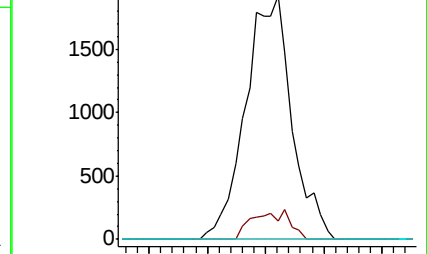
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX013188.D (-794) (-)

Ion 109.90 (109.60 to 110.60): VX013188.D (-794) (-)

Ion 76.90 (76.60 to 77.60): VX013188.D (-794) (-)



#38

Carbon Tetrachloride

Concen: 4.016 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

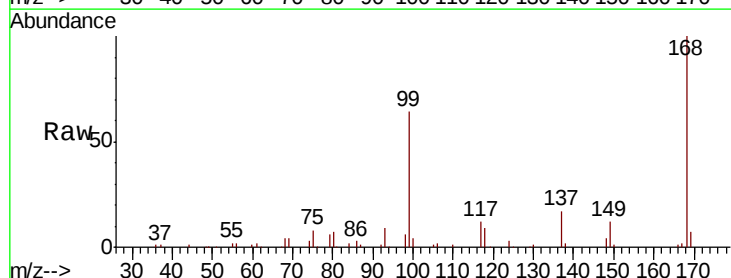
Tgt Ion: 117 Resp: 7341

Ion Ratio Lower Upper

117 100

119 4.1 80.1 120.1#

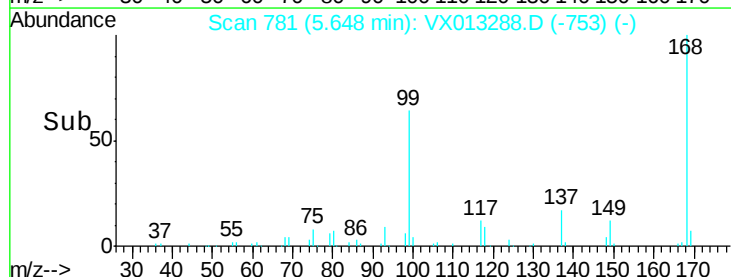
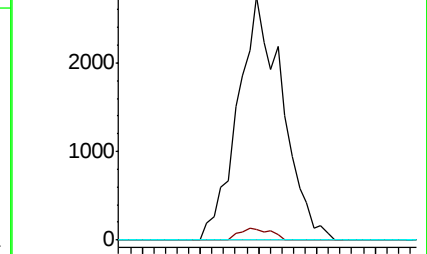
121 0.0 25.5 38.3#

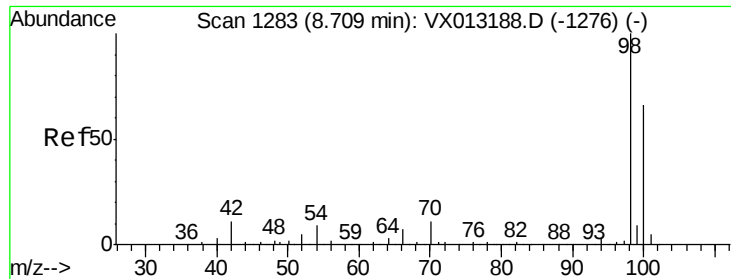


Abundance Ion 116.80 (116.50 to 117.50): VX013188.D (-790) (-)

Ion 118.80 (118.50 to 119.50): VX013188.D (-790) (-)

Ion 120.80 (120.50 to 121.50): VX013188.D (-790) (-)





#50

Toluene-d8

Concen: 47.555 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

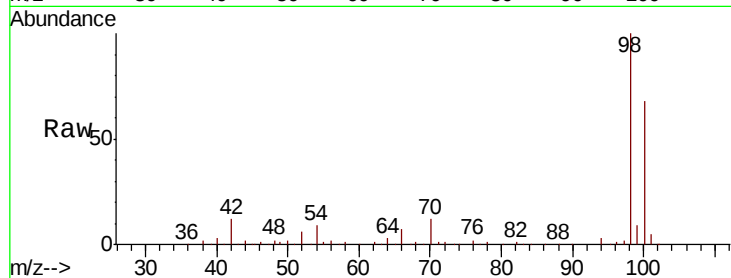
ClientSampleId :

Tot Ion: 98 Resp: 194337

Ion Ratio Lower Upper

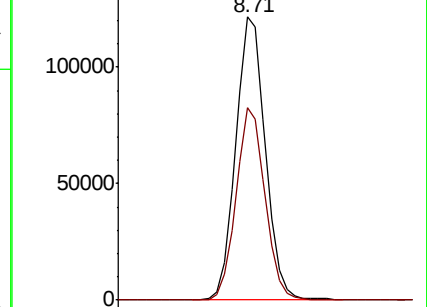
98 100

100 66.7 53.3 79.9

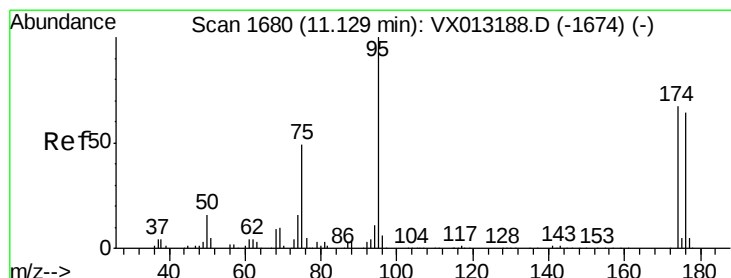
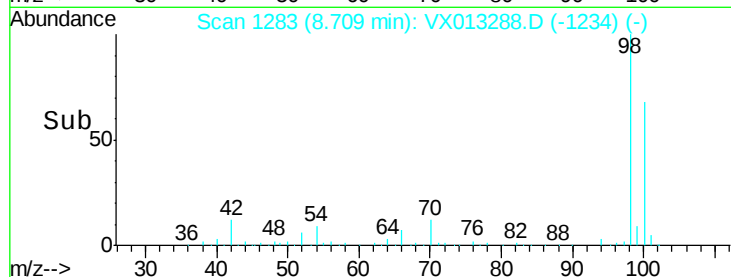


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>



Time-->



#62

4-Bromofluorobenzene

Concen: 46.077 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

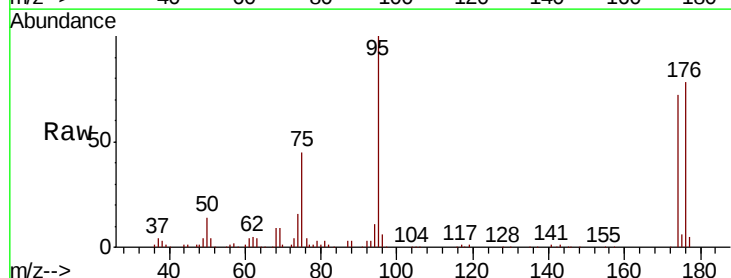
Tgt Ion: 95 Resp: 74528

Ion Ratio Lower Upper

95 100

174 73.6 0.0 152.4

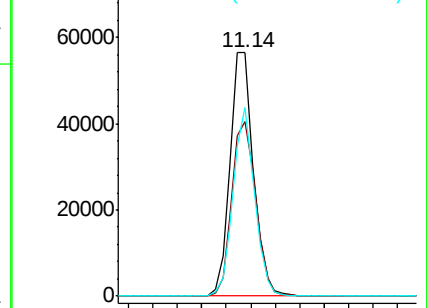
176 71.1 0.0 146.0



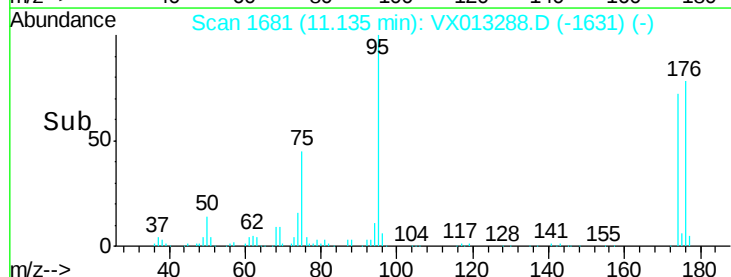
Abundance Ion 94.90 (94.60 to 95.60): VX0

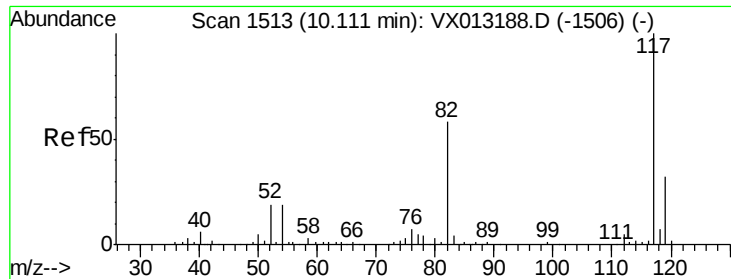
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

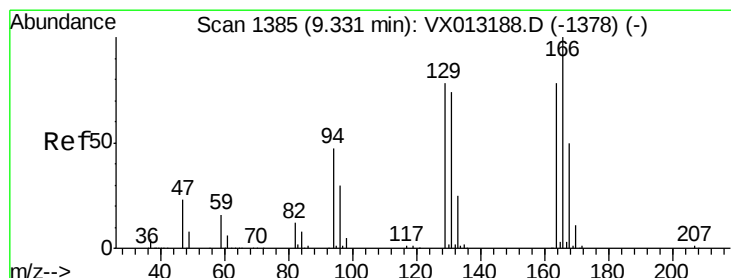
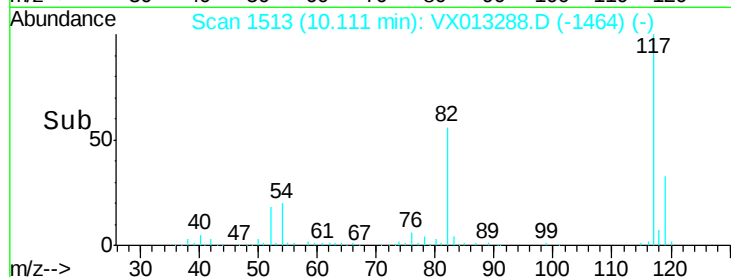
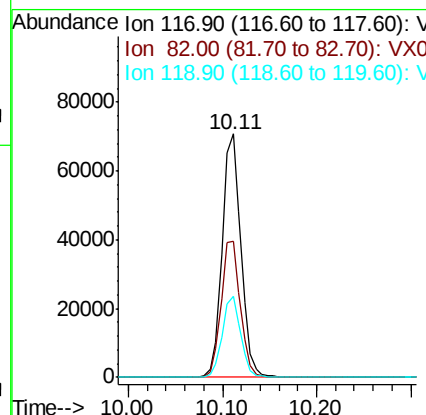
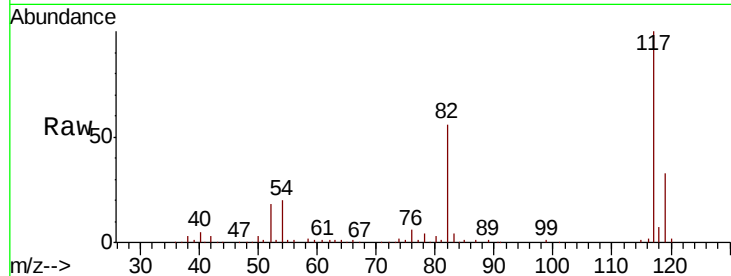




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

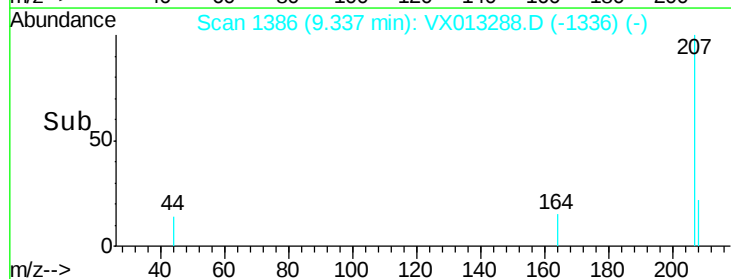
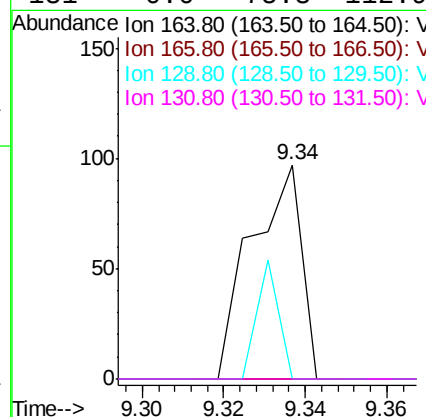
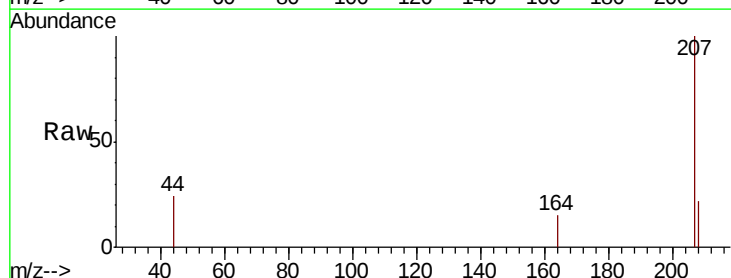
Instrument :
MSVOA_X
ClientSampleId :

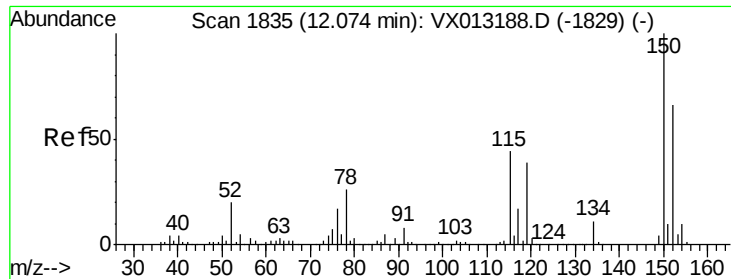
Tot Ion:117 Resp: 97729
Ion Ratio Lower Upper
117 100
82 56.0 46.5 69.7
119 33.4 25.2 37.8



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013288.D
Acq: 30 Oct 2019 16:22

Tgt Ion:164 Resp: 83
Ion Ratio Lower Upper
164 100
166 0.0 102.2 153.4#
129 0.0 79.8 119.8#
131 0.0 75.3 112.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

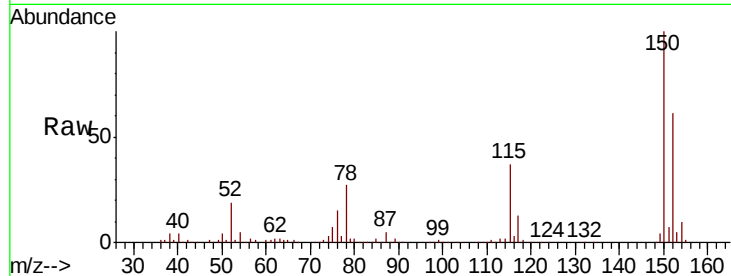
Tot Ion:152 Resp: 65145

Ion Ratio Lower Upper

152 100

115 63.2 46.6 139.8

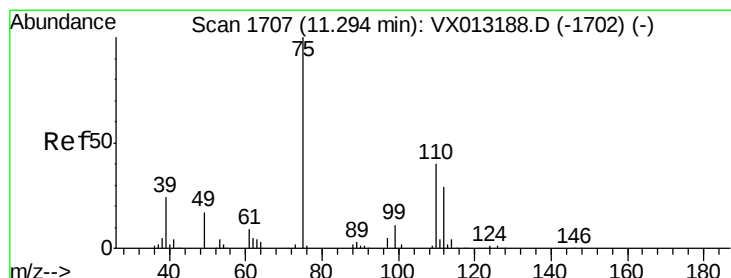
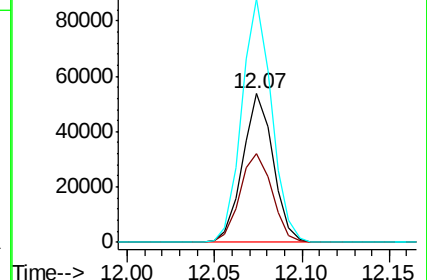
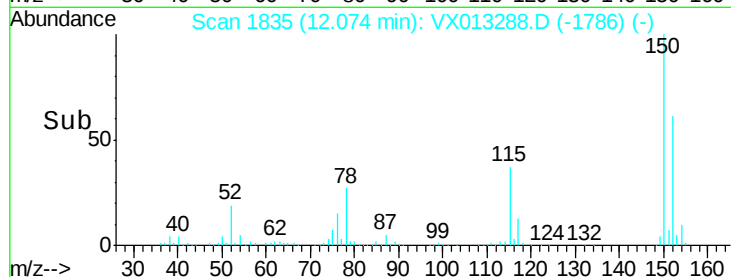
150 160.2 0.0 354.0



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: 22.991 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013288.D

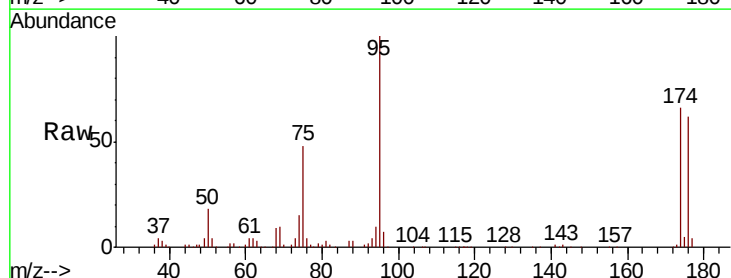
Acq: 30 Oct 2019 16:22

Tgt Ion: 75 Resp: 36099

Ion Ratio Lower Upper

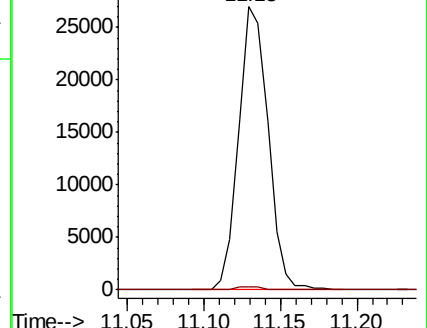
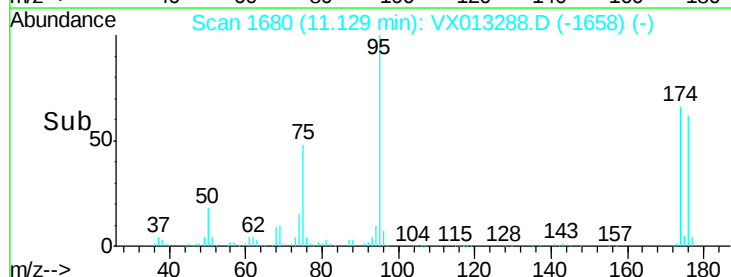
75 100

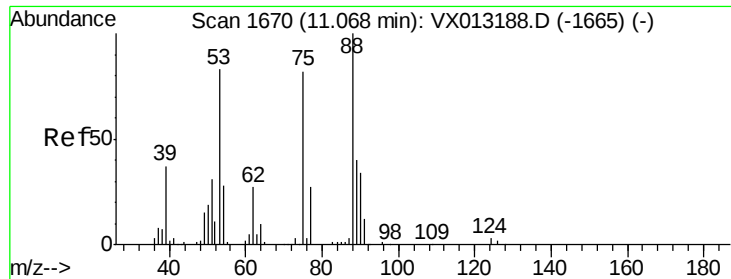
77 1.0 19.1 57.5#



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: 63.179 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013288.D

Acq: 30 Oct 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

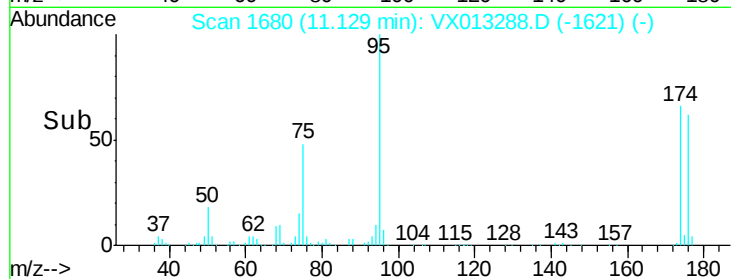
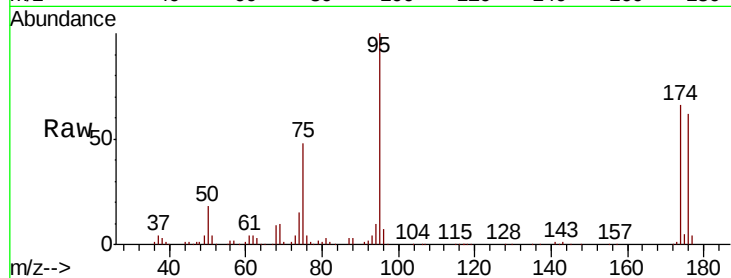
Tot Ion: 75 Resp: 36099

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

