

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : PE1.D
 Acq On : 19 Oct 2018 18:47
 Operator : JC/MD
 Sample : J5026-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 20 05:37:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	358416	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	314502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159176	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	2219	0.80	ug/l	0.00
Spiked Amount			Recovery	=	1.60%	
35) Dibromofluoromethane	5.51	113	1325	0.56	ug/l	0.00
Spiked Amount			Recovery	=	1.12%	
50) Toluene-d8	8.71	98	2985	0.37	ug/l	0.00
Spiked Amount			Recovery	=	0.74%	
62) 4-Bromofluorobenzene	11.14	95	1176	0.38	ug/l	0.00
Spiked Amount			Recovery	=	0.76%	

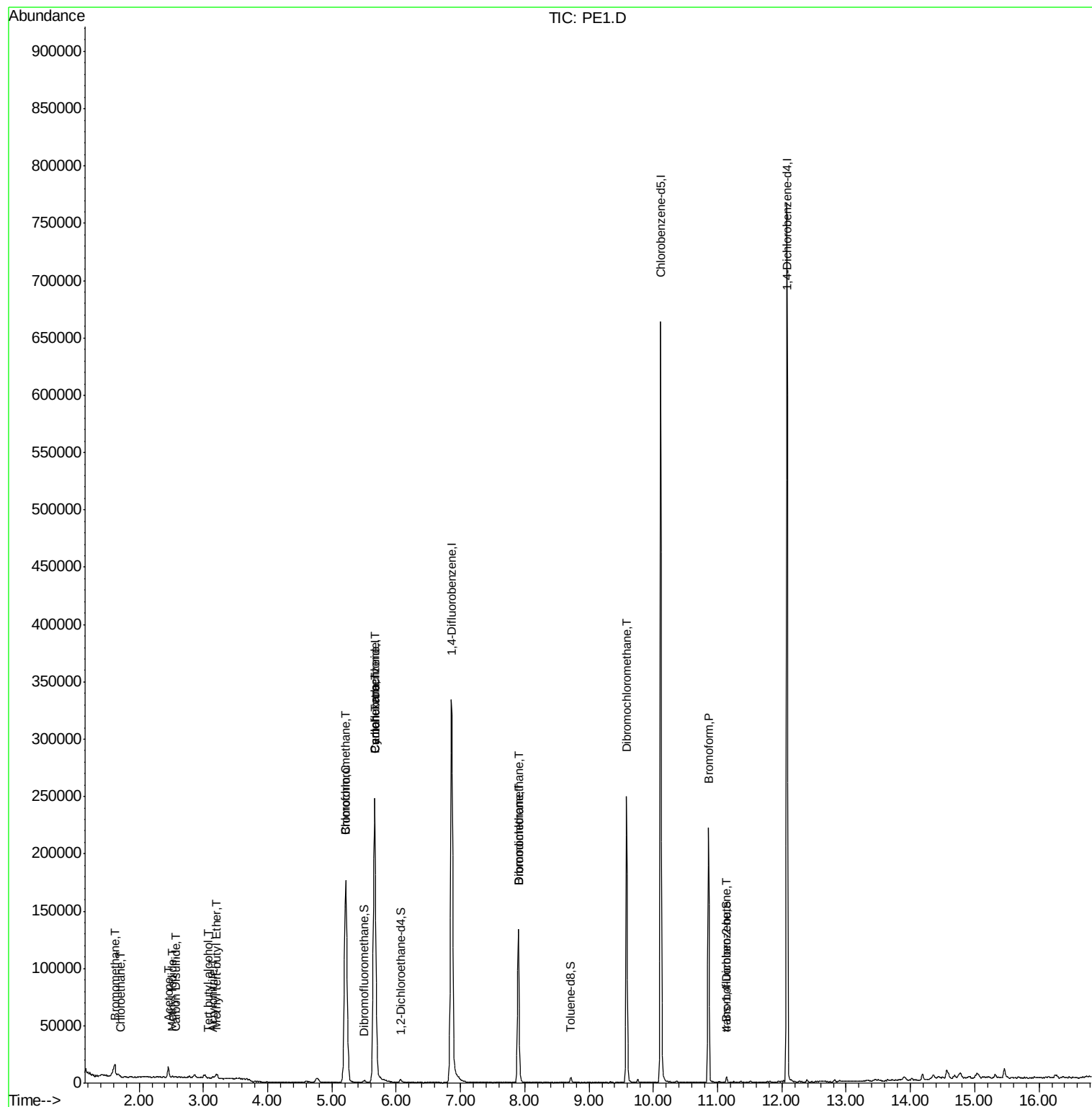
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	654	0.984	ug/l #	42
6) Chloroethane	1.72	64	247	0.467	ug/l #	44
10) Methyl Iodide	2.51	142	398	2.645	ug/l	97
11) Tert butyl alcohol	3.07	59	163	0.209	ug/l #	1
13) Acrolein	2.30	56	114	Below Cal	#	16
15) Acrylonitrile	3.14	53	548	0.310	ug/l	88
16) Acetone	2.45	43	1225	0.766	ug/l #	75
17) Carbon Disulfide	2.57	76	1518	0.230	ug/l #	77
19) Methyl tert-butyl Ether	3.20	73	3626	0.472	ug/l #	90
20) Methylene Chloride	2.85	84	1087	Below Cal	#	79
28) Bromochloromethane	5.21	49	15729	7.478	ug/l #	9
30) Chloroform	5.21	83	216269	50.501	ug/l	98
31) Cyclohexane	5.67	56	4429	1.165	ug/l #	15
38) Carbon Tetrachloride	5.67	117	22105	6.338	ug/l #	16
44) Trichloroethene	7.21	130	155	Below Cal		57
46) Dibromomethane	7.90	93	2667	1.582	ug/l #	1
47) Bromodichloromethane	7.90	83	88150	28.268	ug/l	99
60) Dibromochloromethane	9.59	129	110719	44.391	ug/l	99
71) Bromoform	10.86	173	83675	39.277	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	485	0.477	ug/l #	9

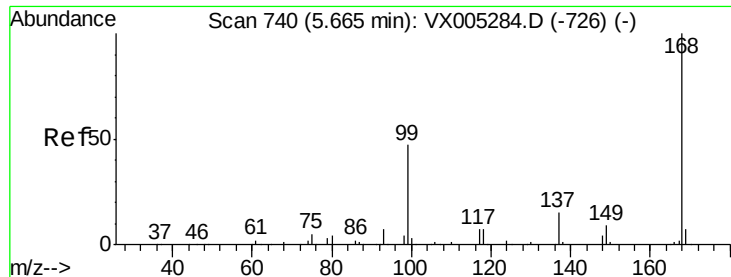
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

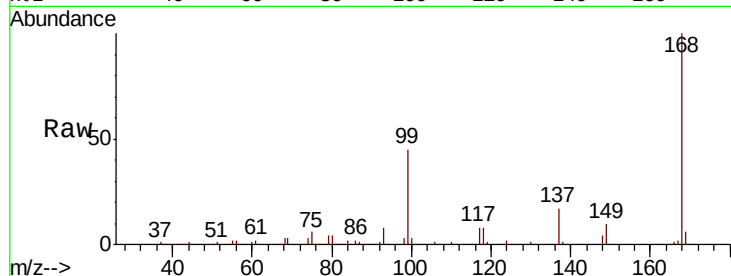
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 249256

Ion Ratio Lower Upper

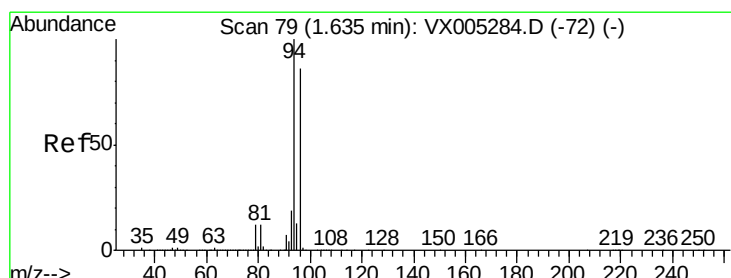
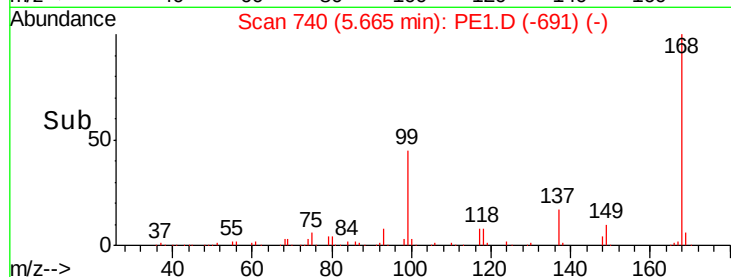
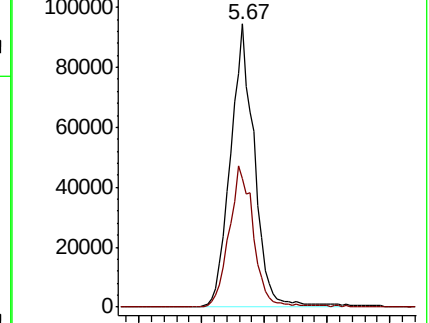
168 100

99 45.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): F

Ion 98.90 (98.60 to 99.60): PE1



#5

Bromomethane

Concen: 0.984 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: PE1.D

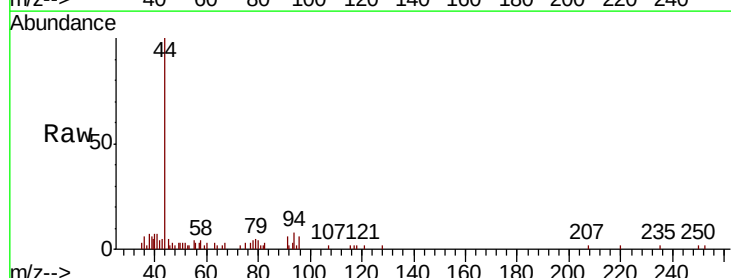
Acq: 19 Oct 2018 18:47

Tgt Ion: 94 Resp: 654

Ion Ratio Lower Upper

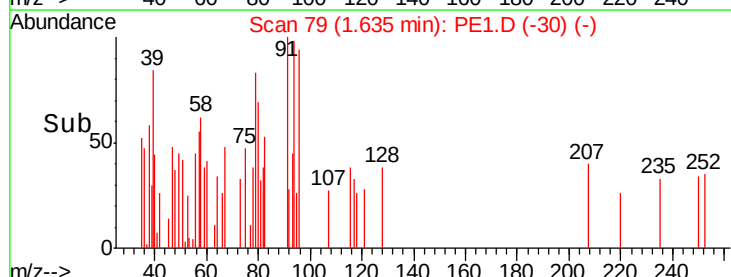
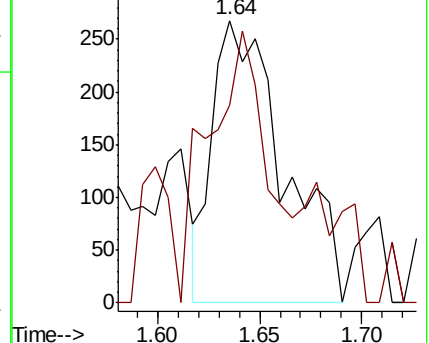
94 100

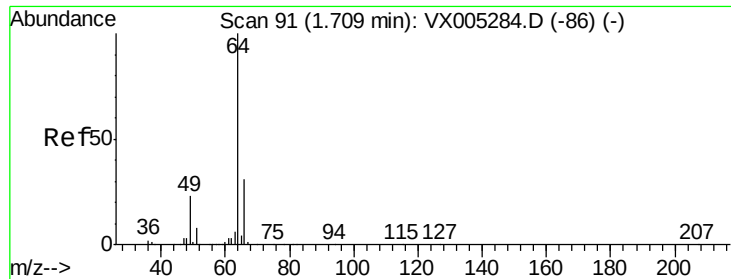
96 37.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): PE1

Ion 95.90 (95.60 to 96.60): PE1





#6

Chloroethane

Concen: 0.467 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

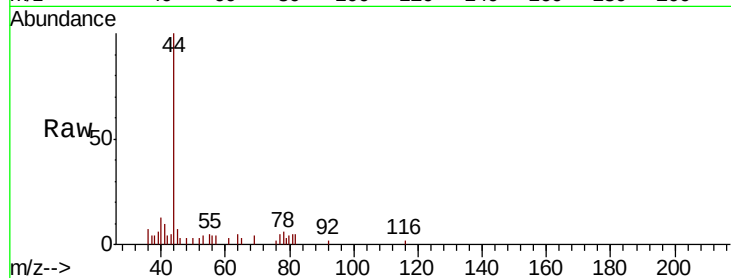
ClientSampled :

Tot Ion: 64 Resp: 247

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): PE1

Ion 65.90 (65.60 to 66.60): PE1

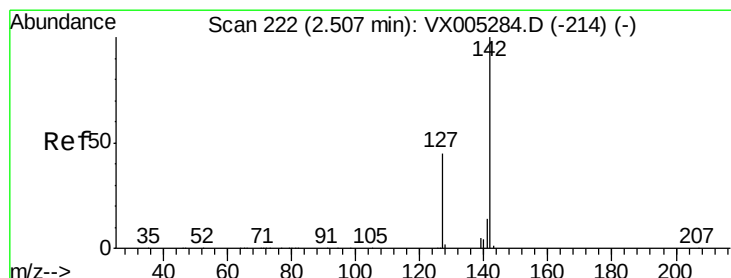
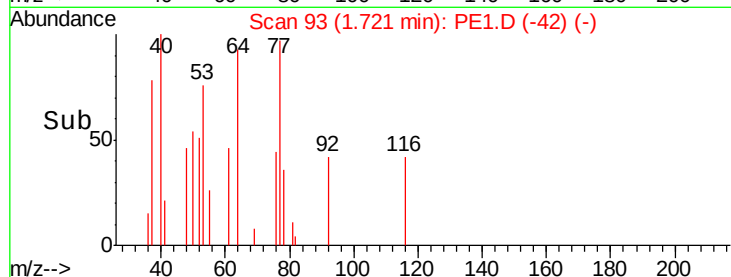
1.72

100

50

0

Time-->



#10

Methyl Iodide

Concen: 2.645 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

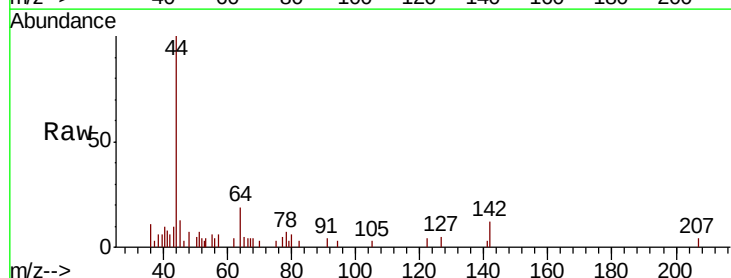
Tgt Ion: 142 Resp: 398

Ion Ratio Lower Upper

142 100

127 43.0 33.8 50.6

141 16.8 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): F

Ion 126.80 (126.50 to 127.50): F

Ion 140.80 (140.50 to 141.50): F

250

200

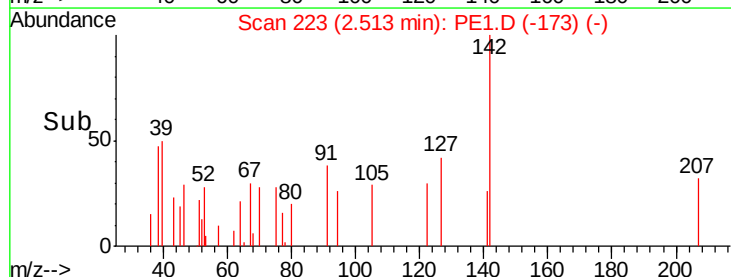
150

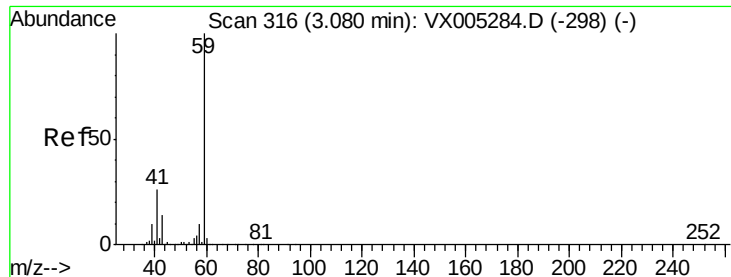
100

50

0

Time-->



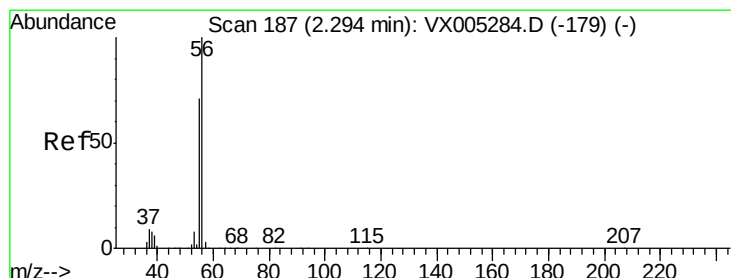
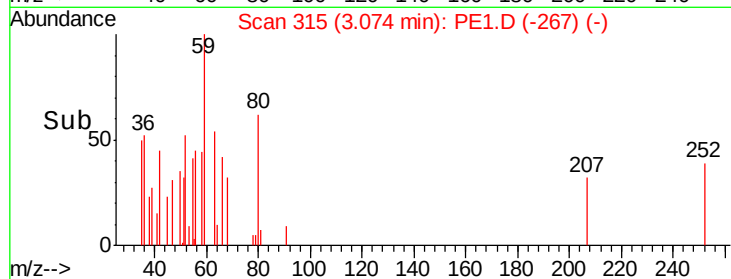
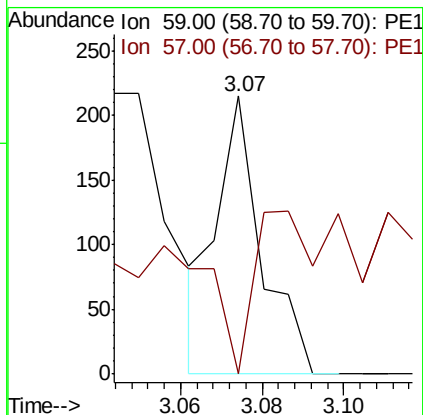
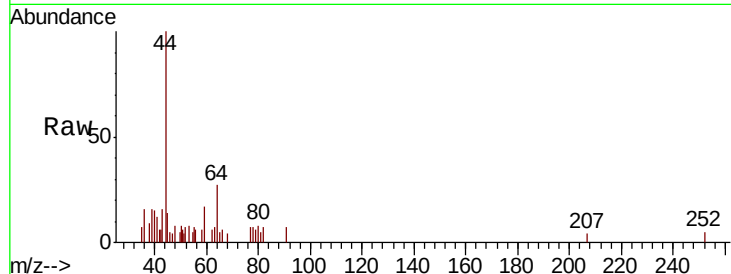


#11

Tert butyl alcohol
Concen: 0.209 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Instrument :
MSVOA_X
ClientSampleId :

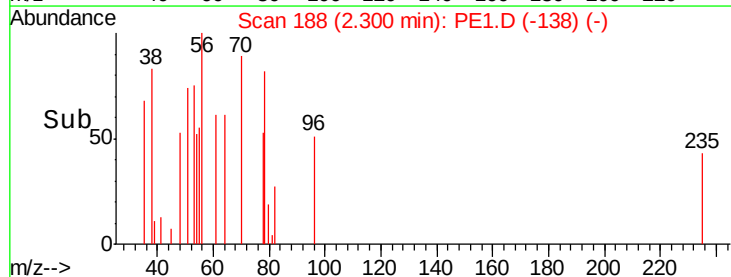
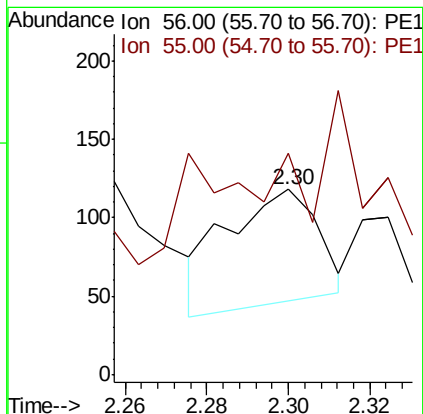
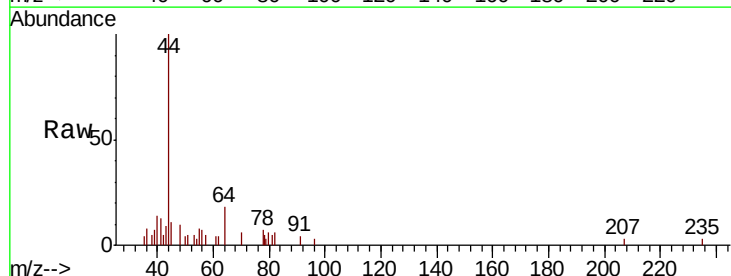
Tot Ion: 59 Resp: 163
Ion Ratio Lower Upper
59 100
57 74.8 8.2 12.4#

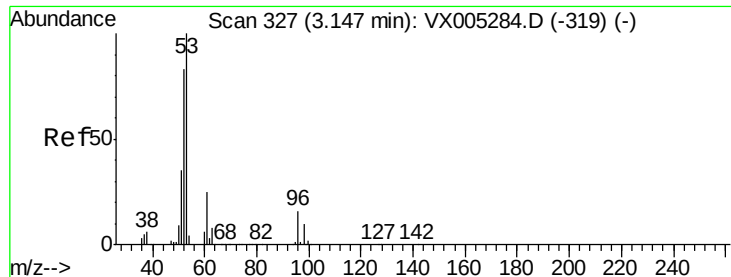


#13

Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Tgt Ion: 56 Resp: 114
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#15

Acrylonitrile

Concen: 0.310 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

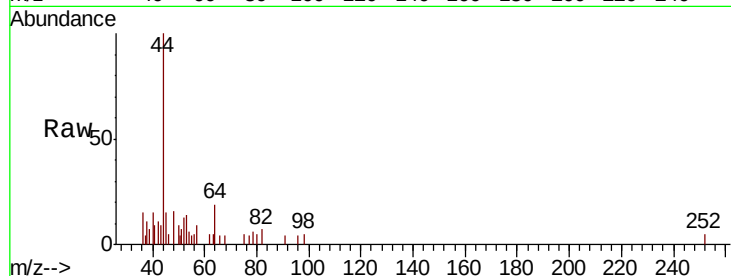
Tot Ion: 53 Resp: 548

Ion Ratio Lower Upper

53 100

52 93.8 65.2 97.8

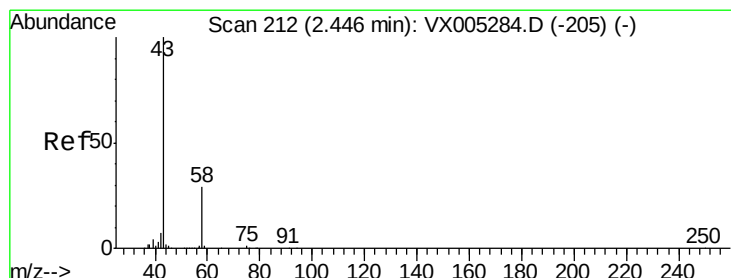
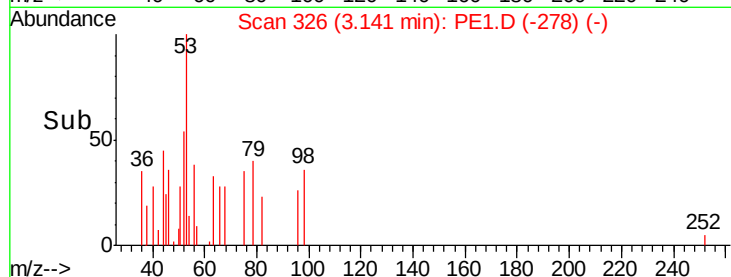
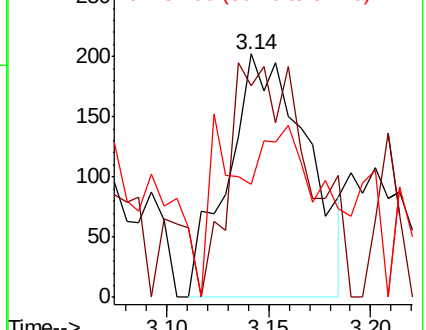
51 29.7 28.2 42.2



Abundance Ion 53.00 (52.70 to 53.70): PE1

Ion 52.00 (51.70 to 52.70): PE1

Ion 51.00 (50.70 to 51.70): PE1



#16

Acetone

Concen: 0.766 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: PE1.D

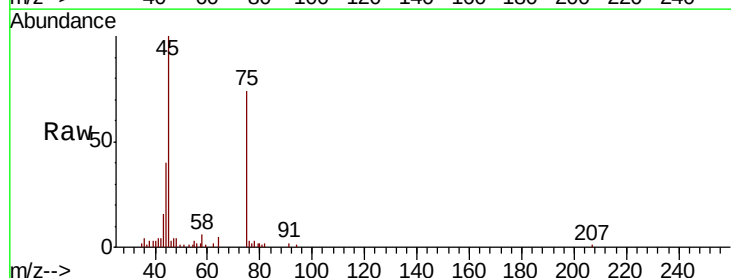
Acq: 19 Oct 2018 18:47

Tgt Ion: 43 Resp: 1225

Ion Ratio Lower Upper

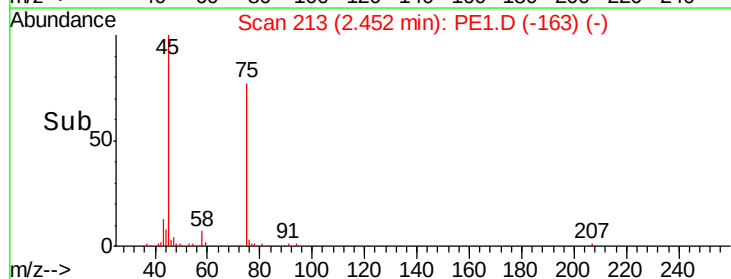
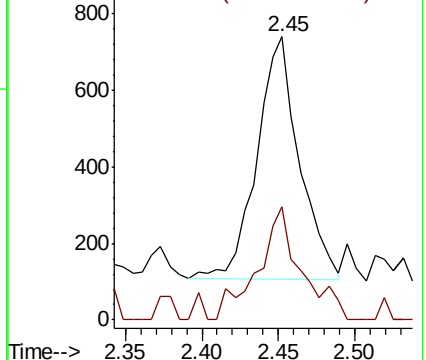
43 100

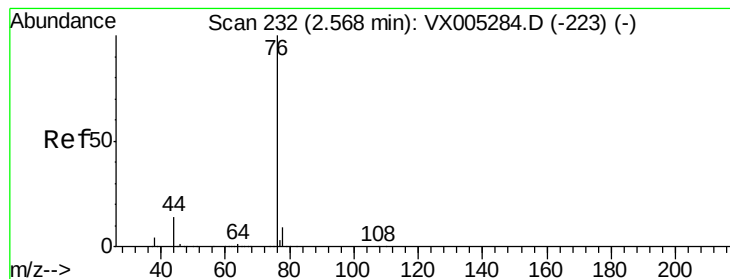
58 46.8 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): PE1

Ion 58.00 (57.70 to 58.70): PE1





#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

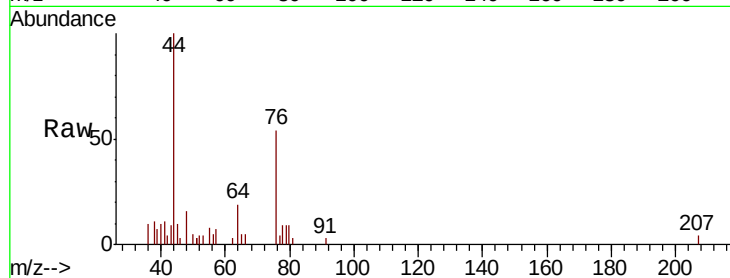
ClientSampleId :

Tot Ion: 76 Resp: 1518

Ion Ratio Lower Upper

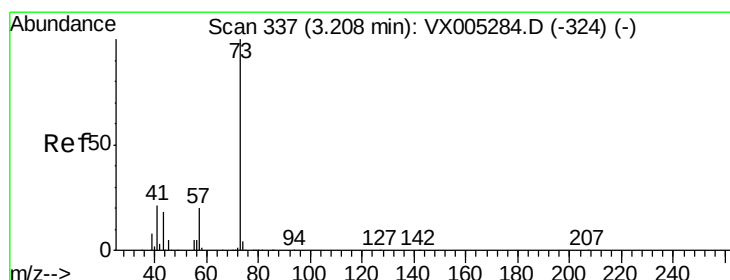
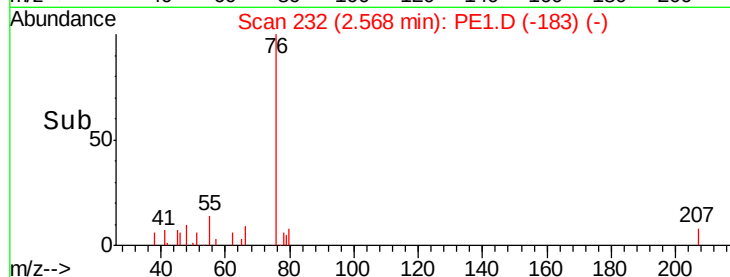
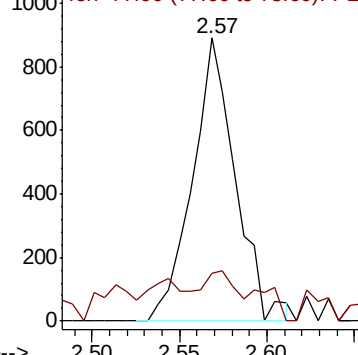
76 100

78 17.1 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): PE1

Ion 77.90 (77.60 to 78.60): PE1



#19

Methyl tert-butyl Ether

Concen: 0.472 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.01 min

Lab File: PE1.D

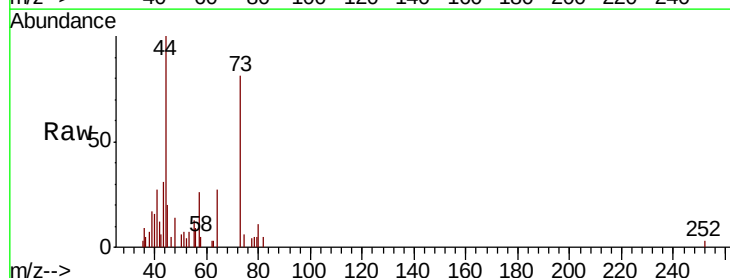
Acq: 19 Oct 2018 18:47

Tgt Ion: 73 Resp: 3626

Ion Ratio Lower Upper

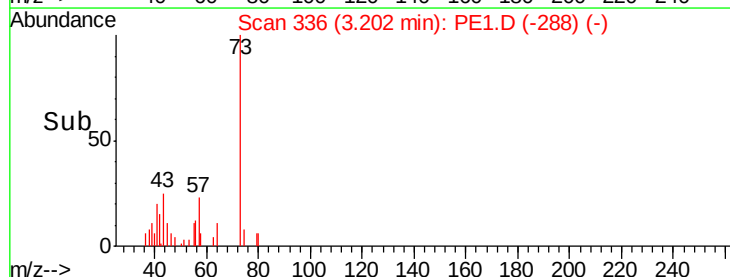
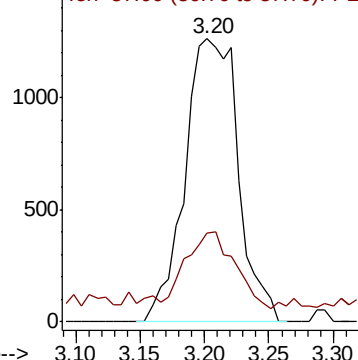
73 100

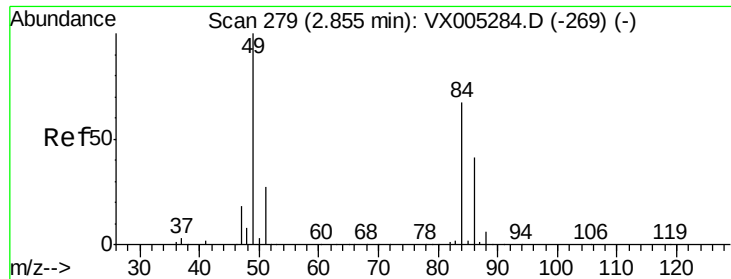
57 26.1 17.1 25.7#



Abundance Ion 73.00 (72.70 to 73.70): PE1

Ion 57.00 (56.70 to 57.70): PE1

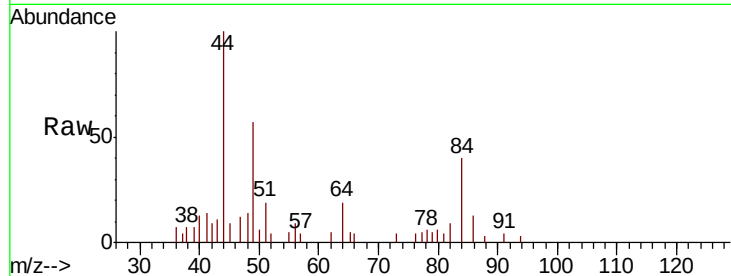




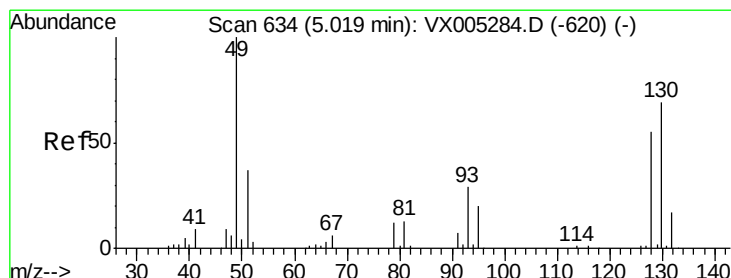
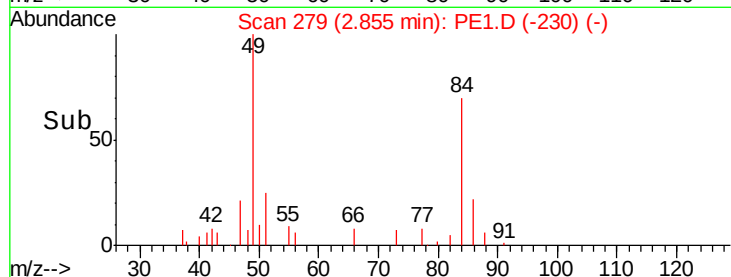
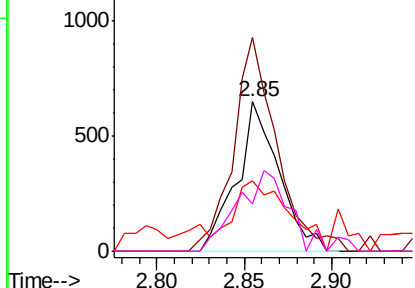
#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 1087
Ion Ratio Lower Upper
84 100
49 142.7 101.2 151.8
51 33.4 29.5 44.3
86 31.6 52.3 78.5#

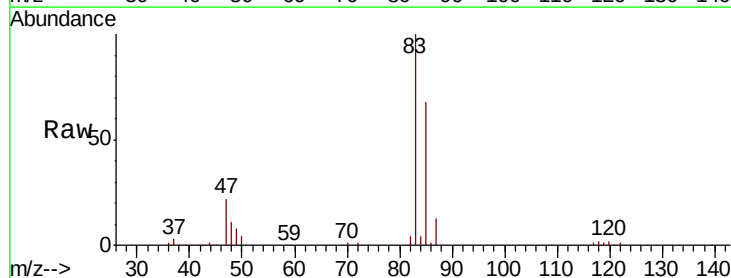


Abundance Ion 83.90 (83.60 to 84.60): PE1
Ion 48.90 (48.60 to 49.60): PE1
Ion 50.90 (50.60 to 51.60): PE1
Ion 85.90 (85.60 to 86.60): PE1

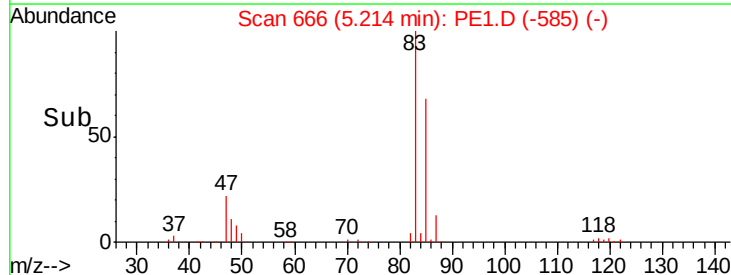
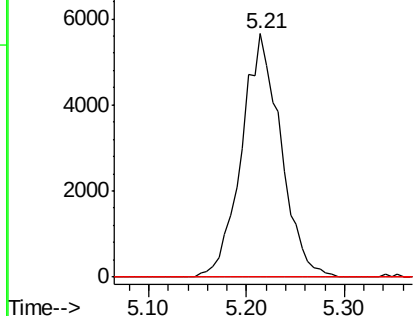


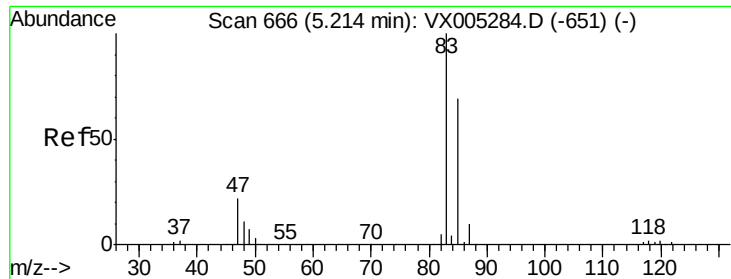
#28
Bromochloromethane
Concen: 7.478 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.20 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Tgt Ion: 49 Resp: 15729
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 67.5 101.3#



Abundance Ion 48.90 (48.60 to 49.60): PE1
Ion 128.80 (128.50 to 129.50): F
Ion 129.80 (129.50 to 130.50): F

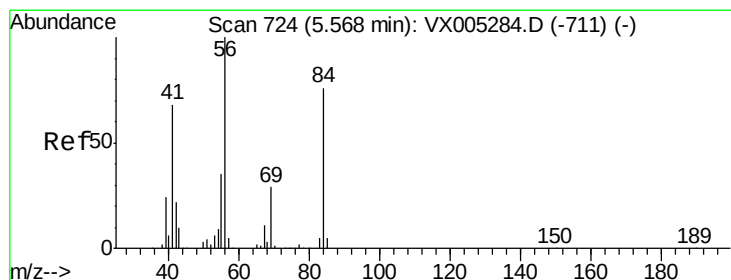
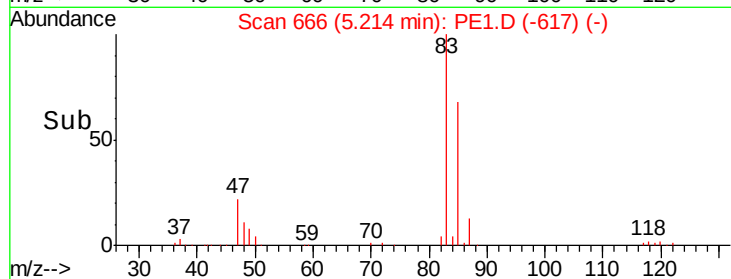
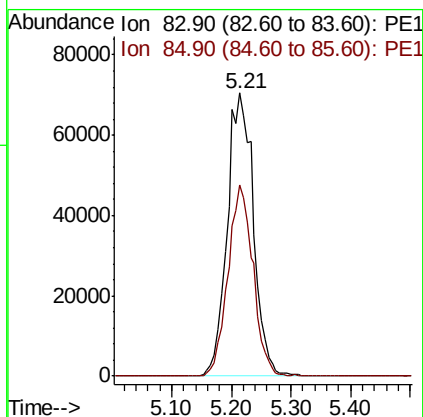
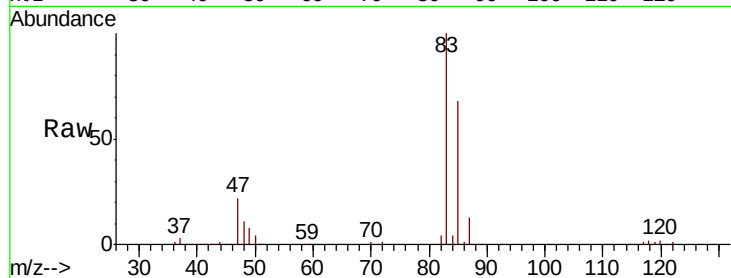




#30
Chloroform
Concen: 50.501 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

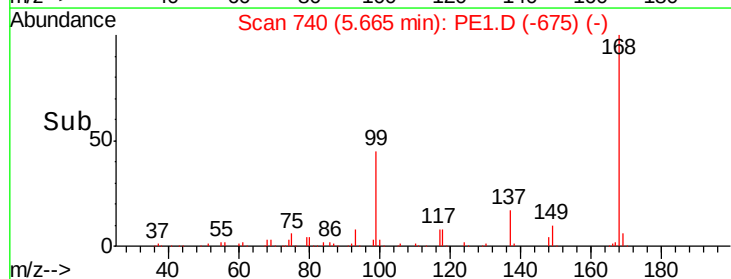
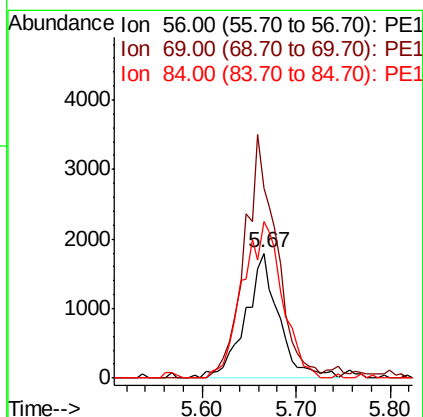
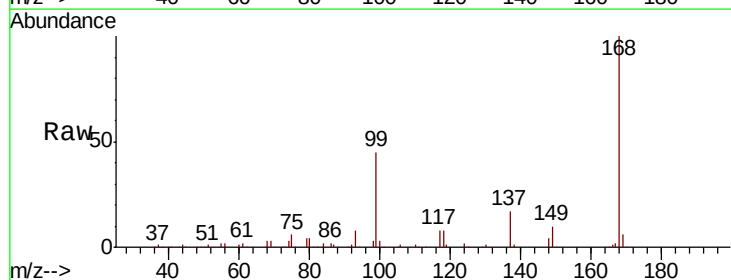
Instrument :
MSVOA_X
ClientSampleId :

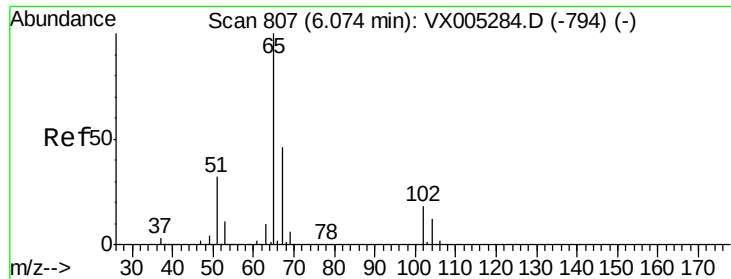
Tot Ion: 83 Resp: 216269
Ion Ratio Lower Upper
83 100
85 67.7 52.6 79.0



#31
Cyclohexane
Concen: 1.165 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Tgt Ion: 56 Resp: 4429
Ion Ratio Lower Upper
56 100
69 152.2 25.4 38.2#
84 125.0 71.4 107.2#

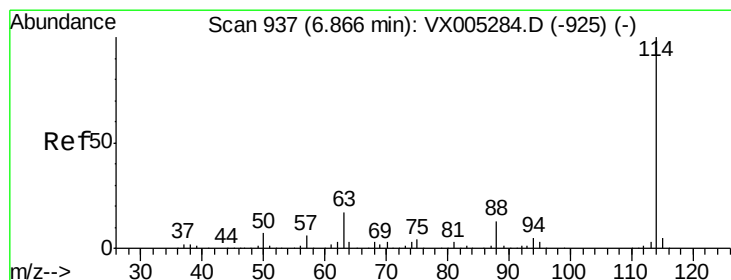
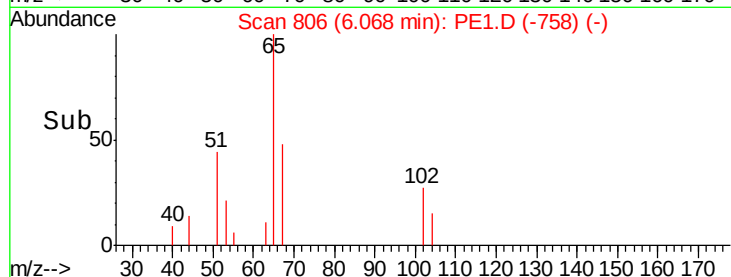
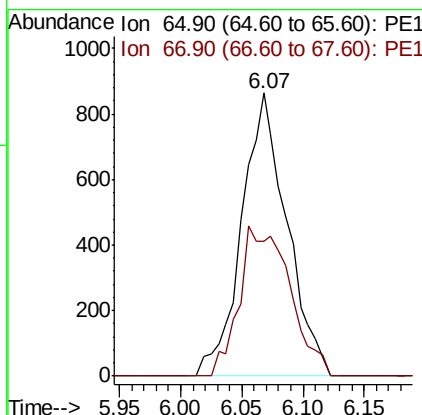
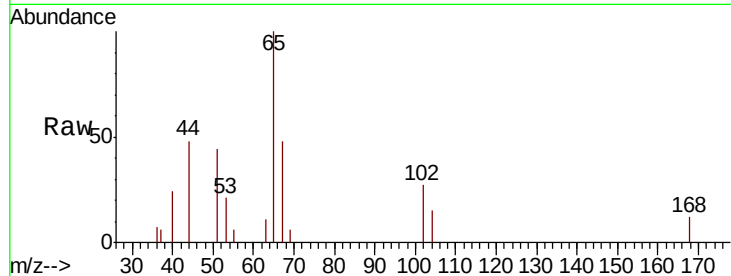




#33
 1,2-Dichloroethane-d4
 Concen: 0.802 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: PE1.D
 Acq: 19 Oct 2018 18:47

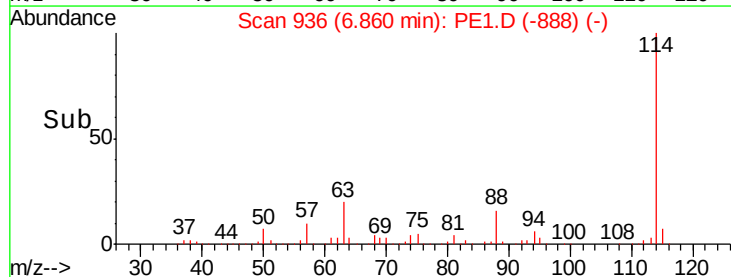
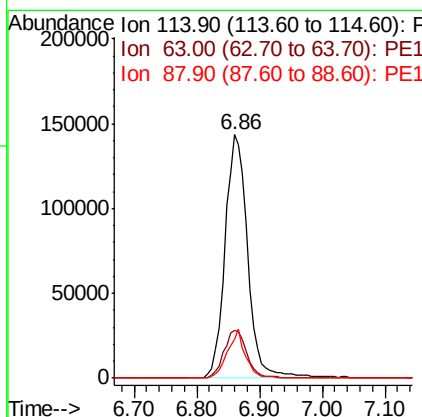
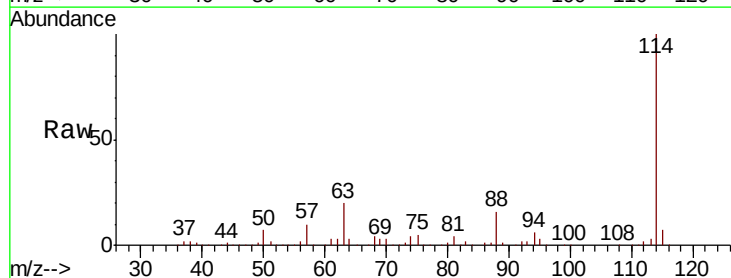
Instrument :
 MSVOA_X
 ClientSampleId :

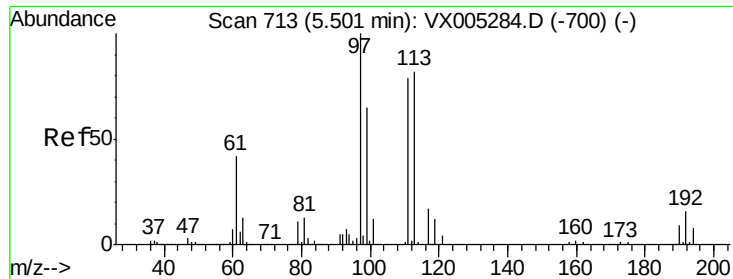
Tot Ion: 65 Resp: 2219
 Ion Ratio Lower Upper
 65 100
 67 58.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: PE1.D
 Acq: 19 Oct 2018 18:47

Tgt Ion: 114 Resp: 358416
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 16.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 0.558 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

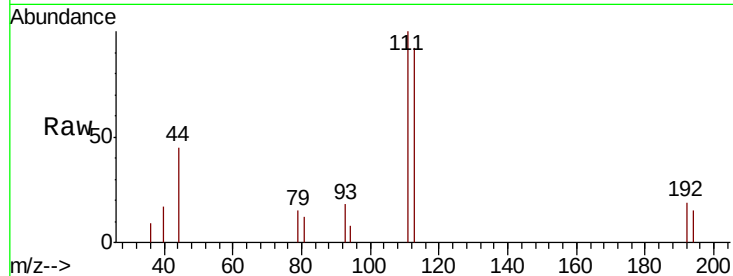
Tot Ion:113 Resp: 1325

Ion Ratio Lower Upper

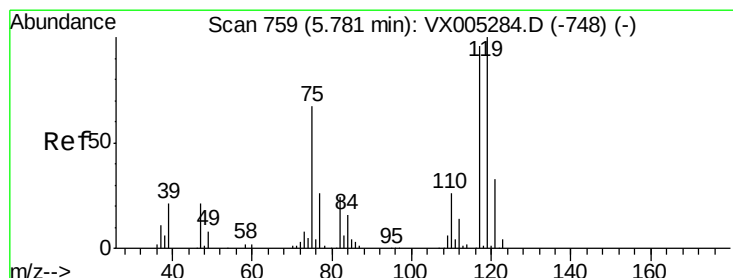
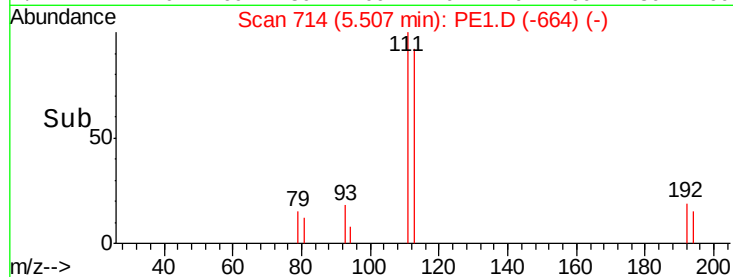
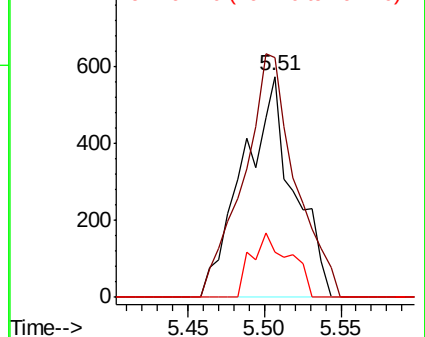
113 100

111 112.2 82.4 123.6

192 22.1 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): F
Ion 110.80 (110.50 to 111.50): F
Ion 191.70 (191.40 to 192.40): F



#38

Carbon Tetrachloride

Concen: 6.338 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

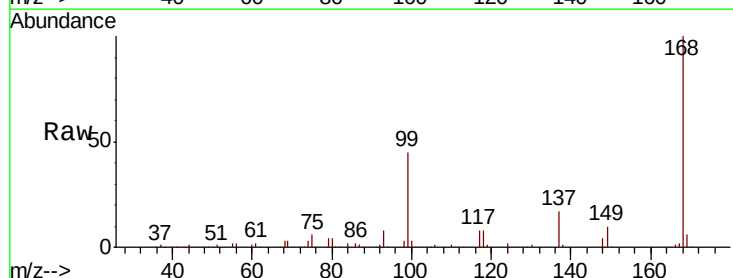
Tgt Ion:117 Resp: 22105

Ion Ratio Lower Upper

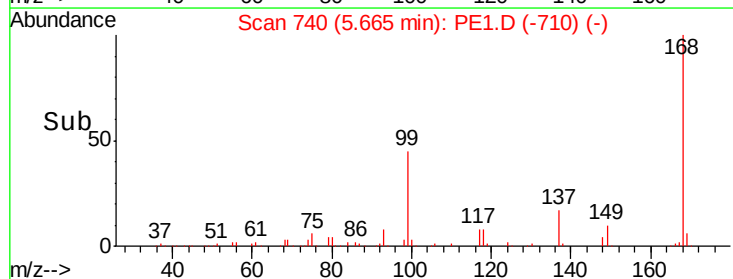
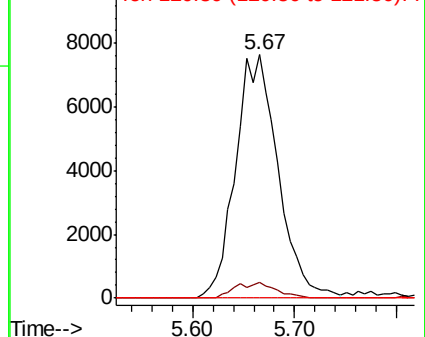
117 100

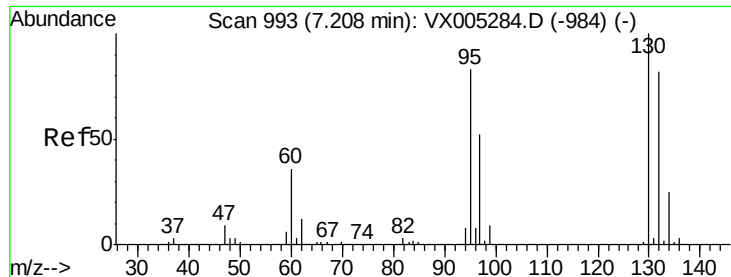
119 6.5 78.8 118.2#

121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): F
Ion 118.80 (118.50 to 119.50): F
Ion 120.80 (120.50 to 121.50): F





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

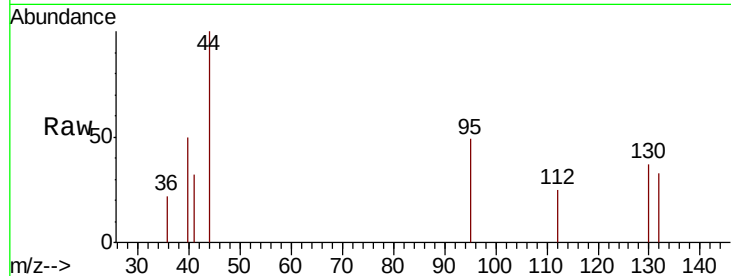
ClientSampled :

Tot Ion:130 Resp: 155

Ion Ratio Lower Upper

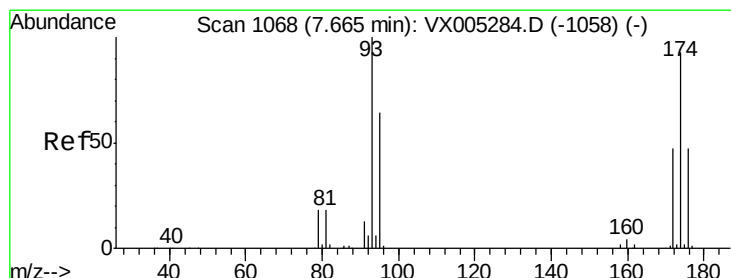
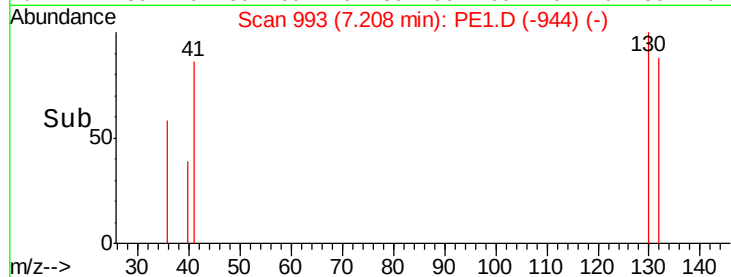
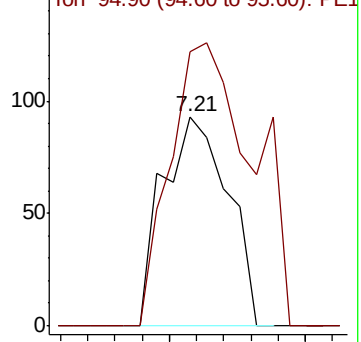
130 100

95 131.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): F

Ion 94.90 (94.60 to 95.60): PE1



#46

Dibromomethane

Concen: 1.582 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.23 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

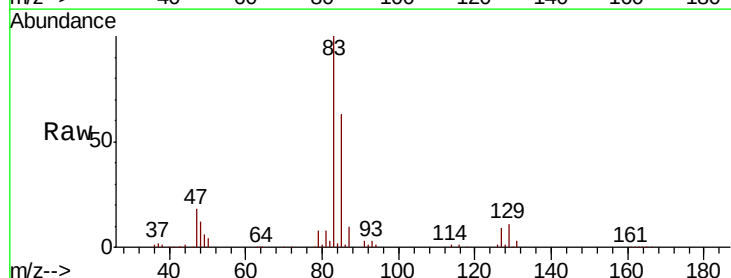
Tgt Ion: 93 Resp: 2667

Ion Ratio Lower Upper

93 100

95 0.0 65.5 98.3#

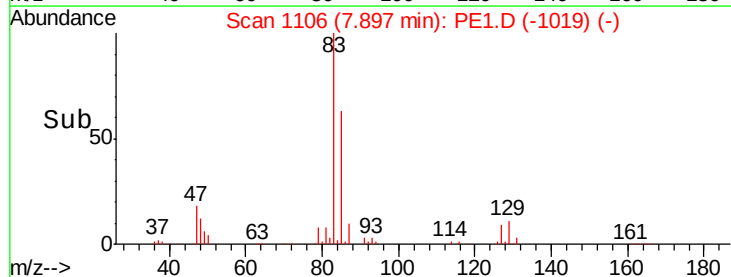
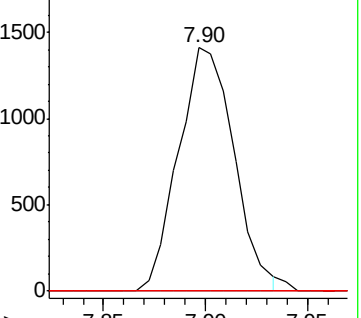
174 0.0 94.2 141.4#

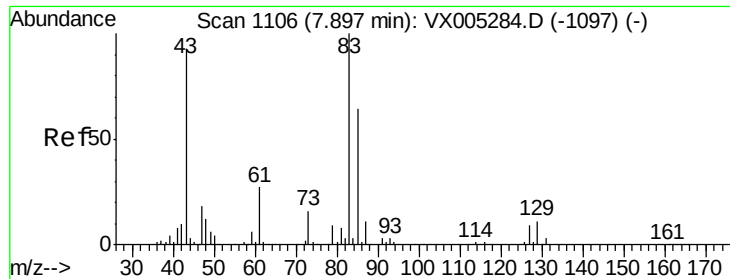


Abundance Ion 92.80 (92.50 to 93.50): PE1

Ion 94.80 (94.50 to 95.50): PE1

Ion 173.70 (173.40 to 174.40): F





#47

Bromodichloromethane

Concen: 28.268 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: PE1.D

Acq: 19 Oct 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

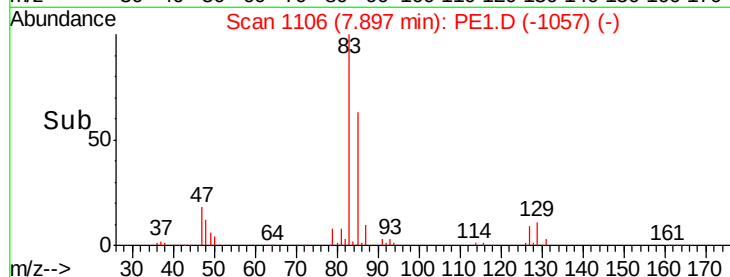
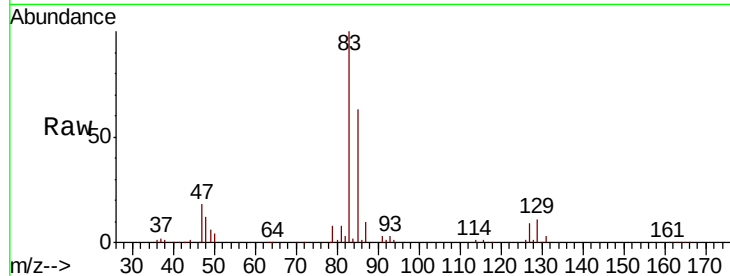
Tot Ion: 83 Resp: 88150

Ion Ratio Lower Upper

83 100

85 62.8 50.9 76.3

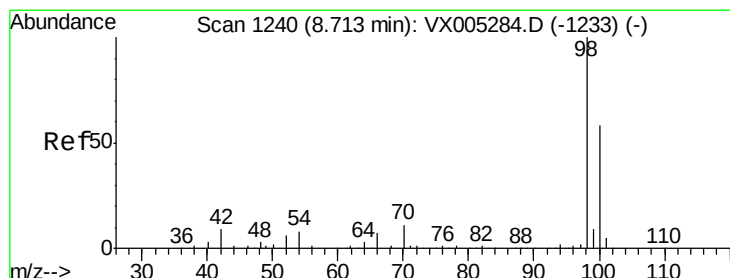
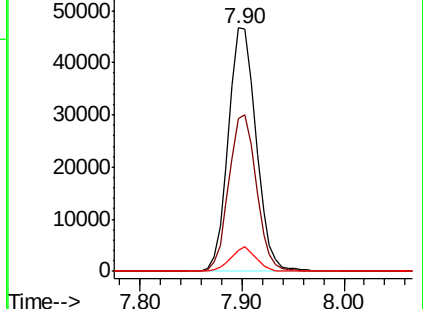
127 8.7 7.3 10.9



Abundance Ion 82.90 (82.60 to 83.60): PE1

Ion 84.90 (84.60 to 85.60): PE1

Ion 126.80 (126.50 to 127.50): PE1



#50

Toluene-d8

Concen: 0.366 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: PE1.D

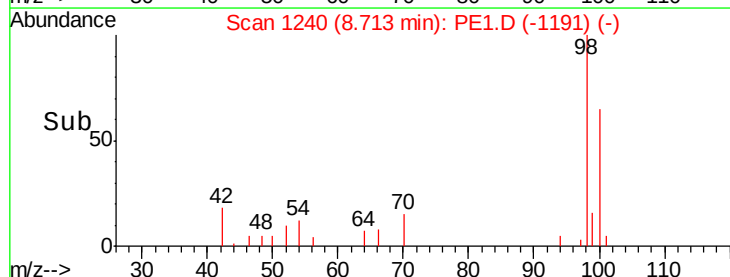
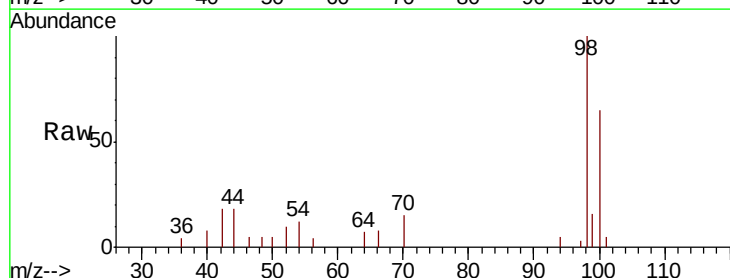
Acq: 19 Oct 2018 18:47

Tgt Ion: 98 Resp: 2985

Ion Ratio Lower Upper

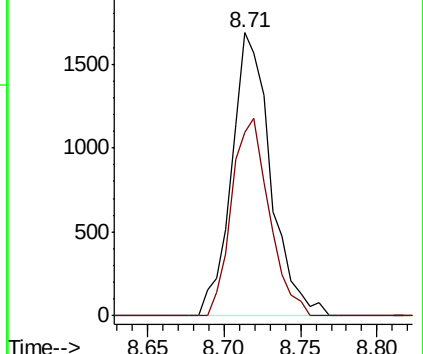
98 100

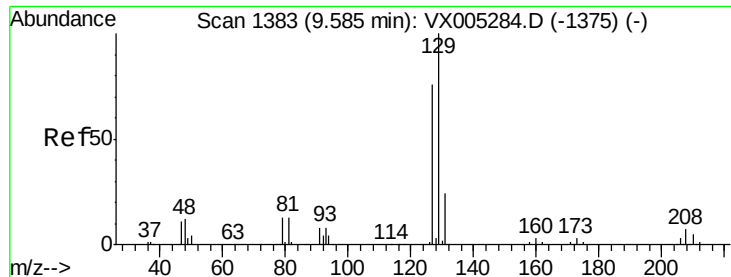
100 67.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): PE1

Ion 100.00 (99.70 to 100.70): PE1

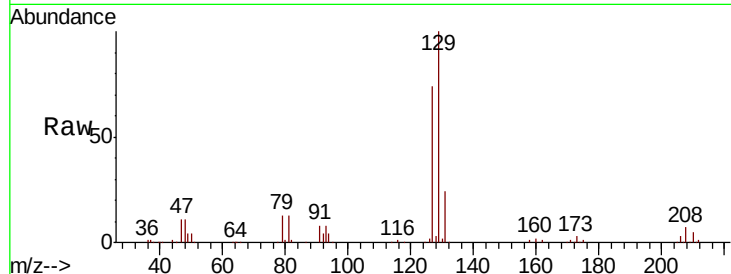




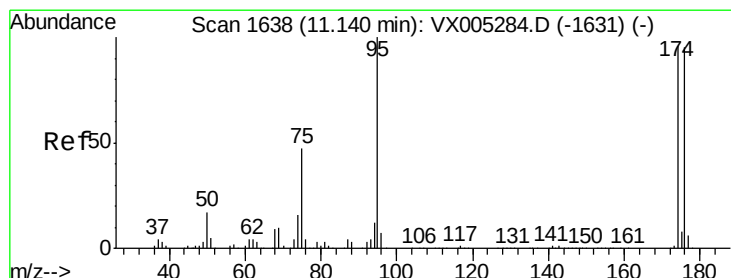
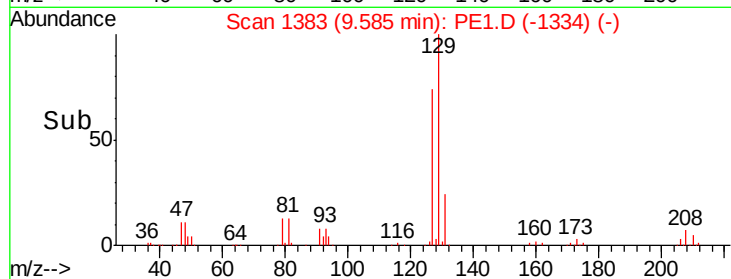
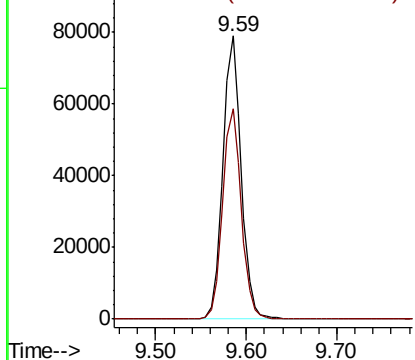
#60
 Dibromochloromethane
 Concen: 44.391 ug/l
 RT: 9.59 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: PE1.D
 Acq: 19 Oct 2018 18:47

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:129 Resp: 110719
 Ion Ratio Lower Upper
 129 100
 127 76.4 38.5 115.5

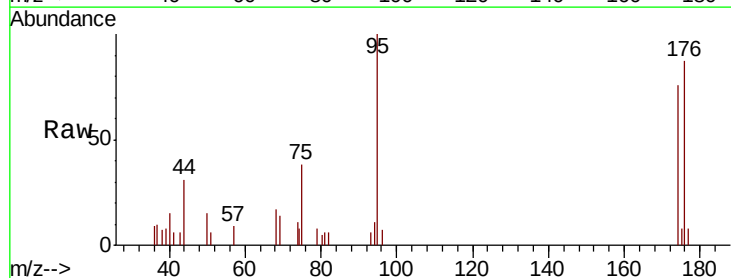


Abundance Ion 128.80 (128.50 to 129.50): F
 Ion 126.80 (126.50 to 127.50): F

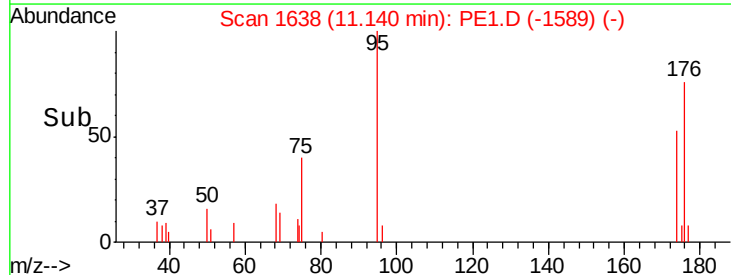
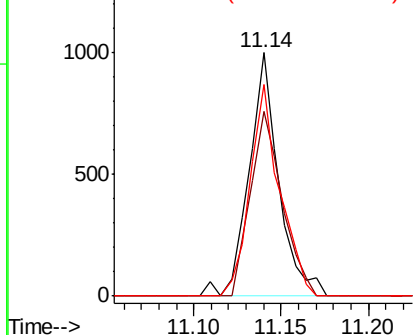


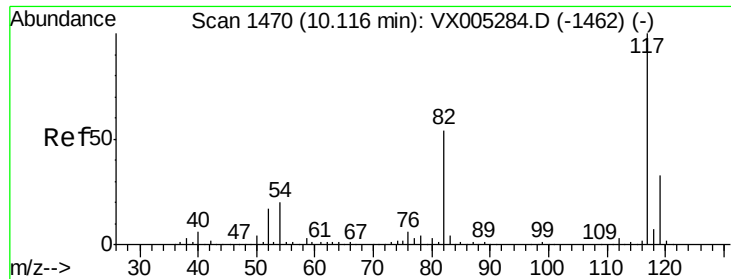
#62
 4-Bromofluorobenzene
 Concen: 0.384 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: PE1.D
 Acq: 19 Oct 2018 18:47

Tgt Ion: 95 Resp: 1176
 Ion Ratio Lower Upper
 95 100
 174 81.5 0.0 185.2
 176 87.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): PE1
 Ion 173.80 (173.50 to 174.50): F
 Ion 175.80 (175.50 to 176.50): F

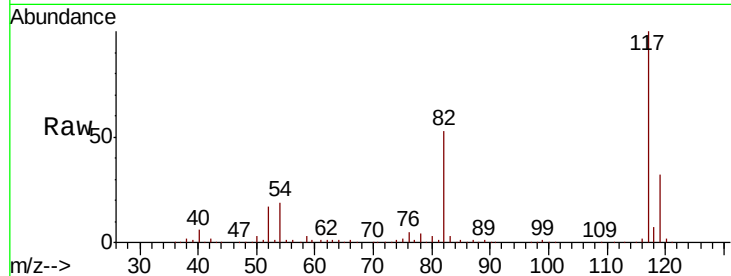




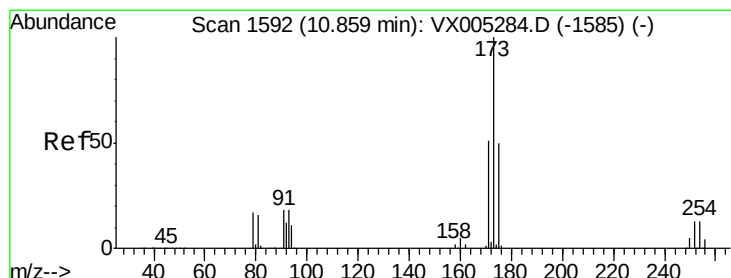
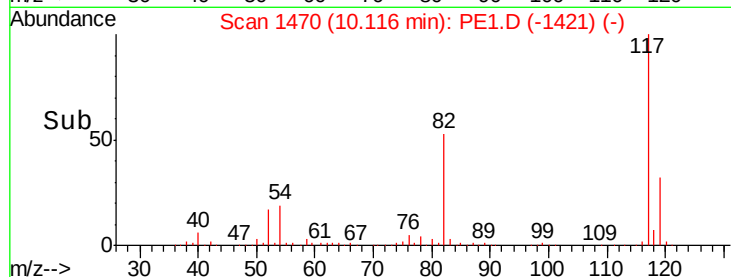
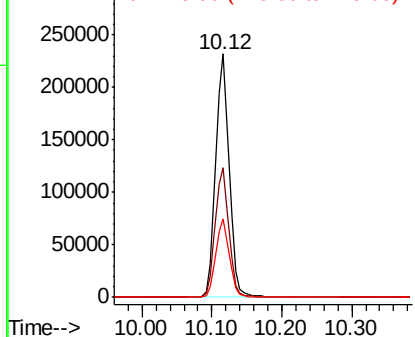
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 314502
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 32.0 29.3 43.9

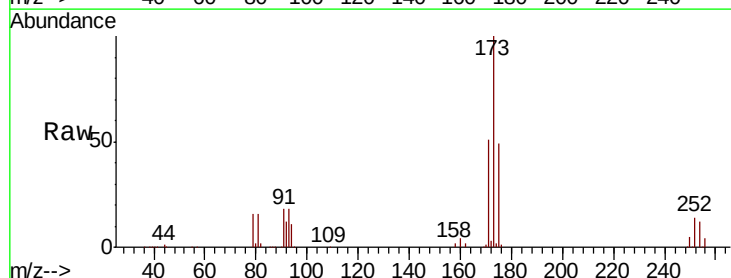


Abundance Ion 116.90 (116.60 to 117.60): F
Ion 82.00 (81.70 to 82.70): PE1
Ion 118.90 (118.60 to 119.60): F

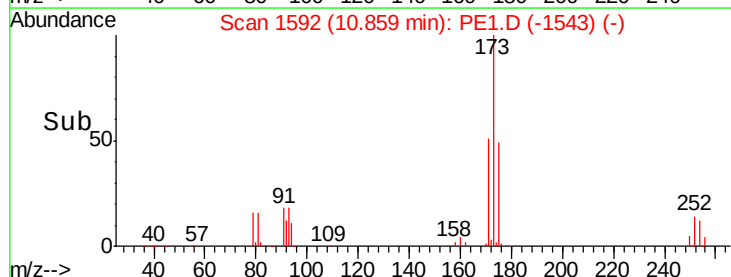
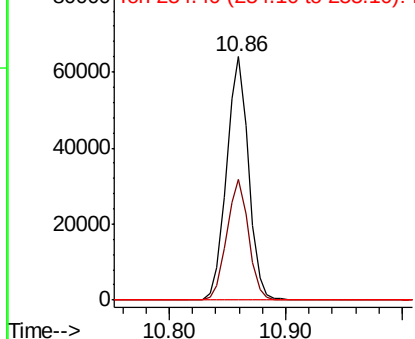


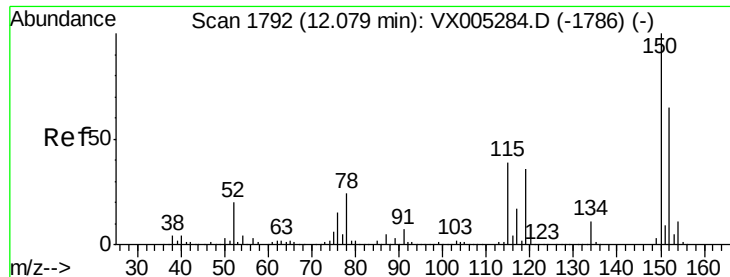
#71
Bromoform
Concen: 39.277 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. -0.00 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Tgt Ion:173 Resp: 83675
Ion Ratio Lower Upper
173 100
175 49.1 24.1 72.3
254 0.2 0.2 0.2



Abundance Ion 172.70 (172.40 to 173.40): F
Ion 174.70 (174.40 to 175.40): F
Ion 254.40 (254.10 to 255.10): F



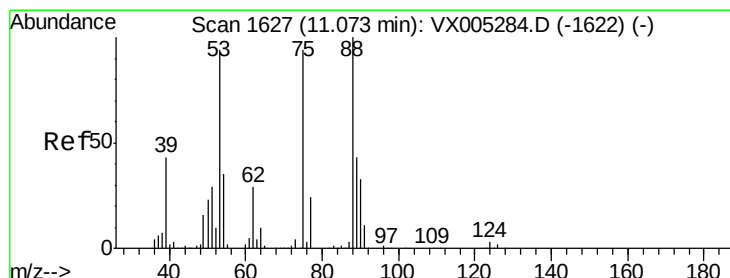
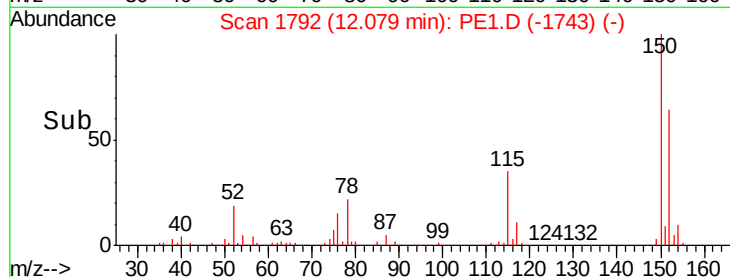
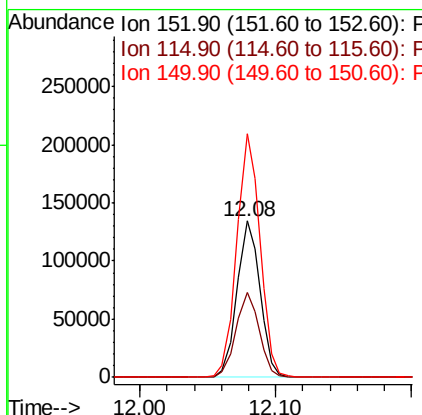
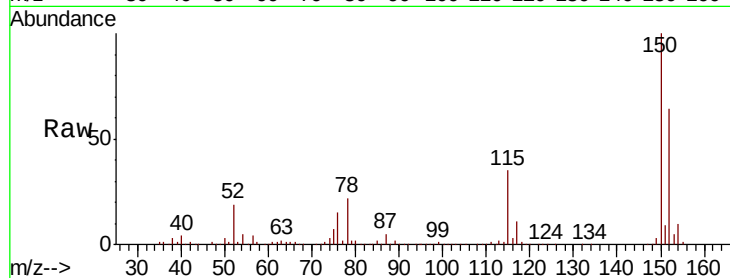


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.4	39.0	117.0
150	156.3	0.0	351.0



#81

trans-1,4-Dichloro-2-butene
Concen: 0.477 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: PE1.D
Acq: 19 Oct 2018 18:47

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	80.1	120.1#
89	0.0	37.2	55.8#

