

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072318\
 Data File : VX003625.D
 Acq On : 24 Jul 2018 01:49
 Operator : JC/SP
 Sample : J4073-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-071718

Quant Time: Jul 24 08:53:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	246234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	351131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187911	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	138459	47.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
35) Dibromofluoromethane	5.51	113	131052	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
50) Toluene-d8	8.72	98	490023	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.14	95	167986	45.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.58%	

Target Compounds

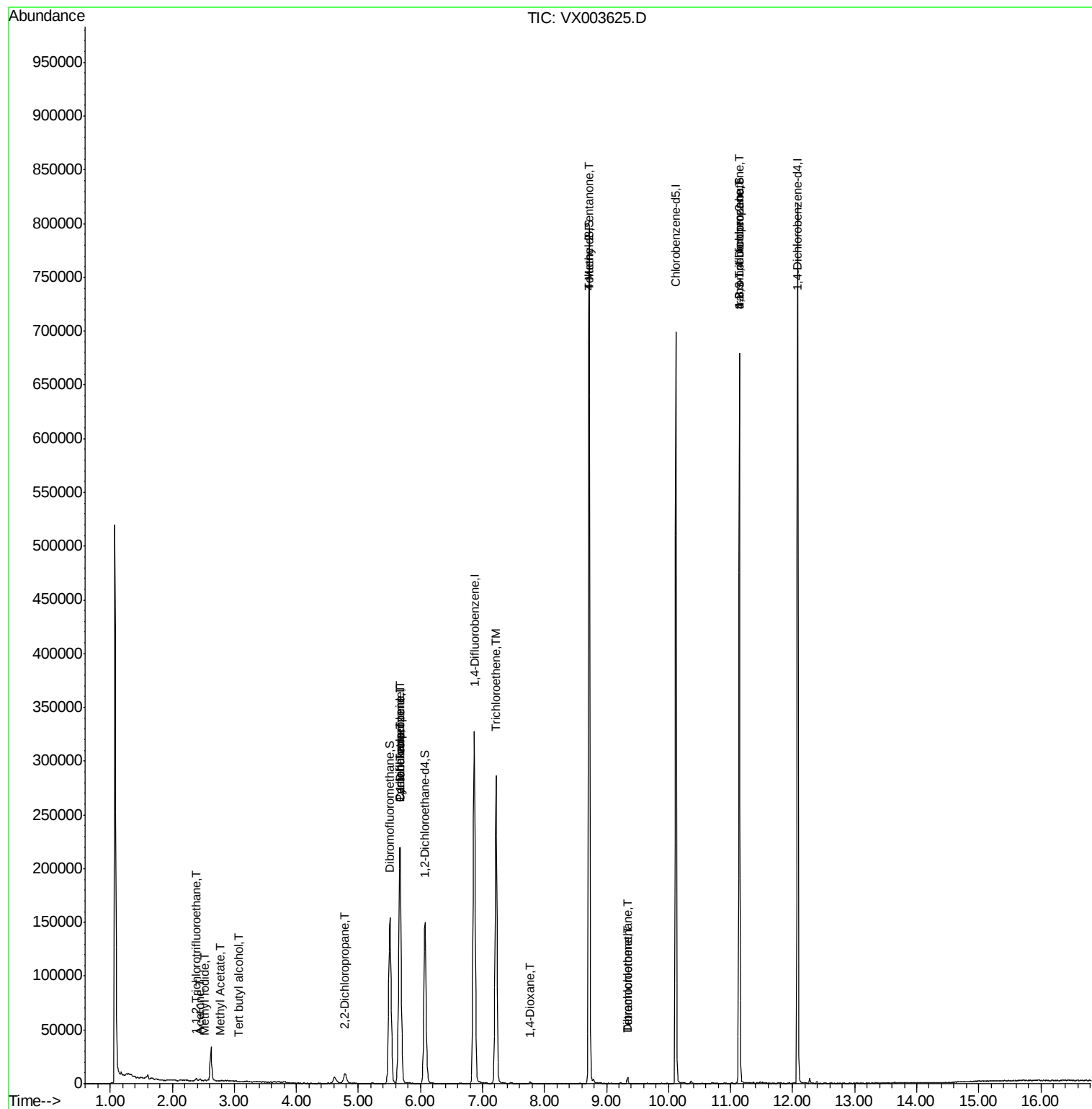
						Qvalue
2) Dichlorodifluoromethane	1.20	85	119	Below Cal	#	43
3) Chloromethane	1.32	50	403	Below Cal		98
5) Bromomethane	1.65	94	1253	Below Cal	#	80
9) 1,1,2-Trichlorotrifluoroet	2.39	101	654	0.24	ug/l	94
10) Methyl Iodide	2.52	142	763	0.23	ug/l #	88
11) Tert butyl alcohol	3.07	59	146	0.25	ug/l #	73
16) Acetone	2.45	43	1583	1.44	ug/l	96
18) Methyl Acetate	2.78	43	699	0.20	ug/l #	80
20) Methylene Chloride	2.87	84	136	Below Cal	#	35
26) 2,2-Dichloropropane	4.78	77	826	0.22	ug/l #	53
31) Cyclohexane	5.67	56	3349	0.76	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13550	3.57	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20136	5.41	ug/l #	16
44) Trichloroethene	7.21	130	121815	35.69	ug/l	96
49) 1,4-Dioxane	7.77	88	971	14.89	ug/l #	87
51) 4-Methyl-2-Pentanone	8.71	43	1726	0.48	ug/l #	1
60) Dibromochloromethane	9.34	129	1104	0.39	ug/l #	11
64) Tetrachloroethene	9.34	164	1285	0.32	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	75827	22.46	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	75827	63.14	ug/l #	6

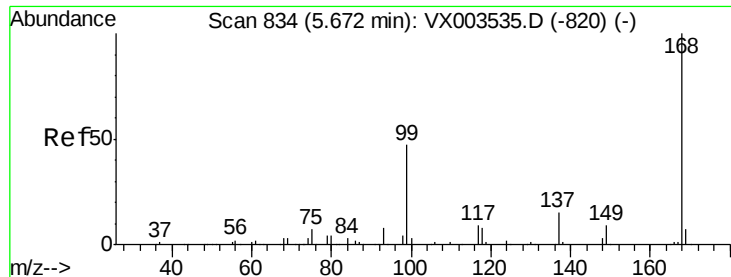
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

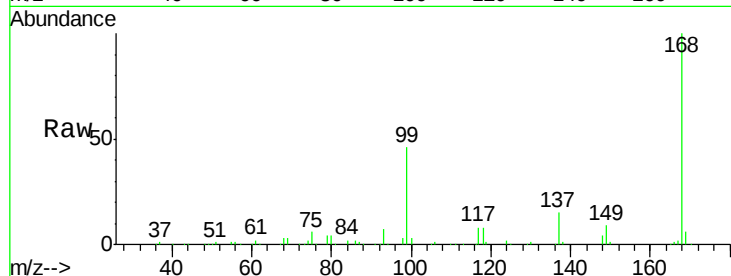
RE126D1-071718

Tot Ion:168 Resp: 246234

Ion Ratio Lower Upper

168 100

99 45.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

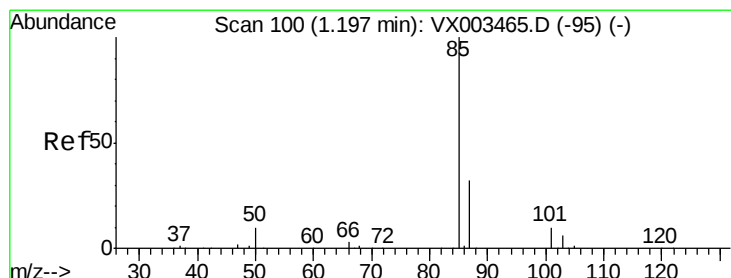
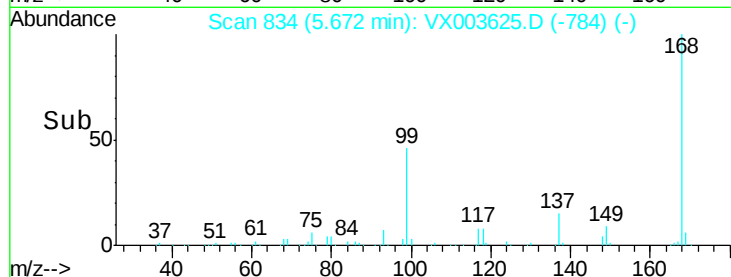
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003625.D

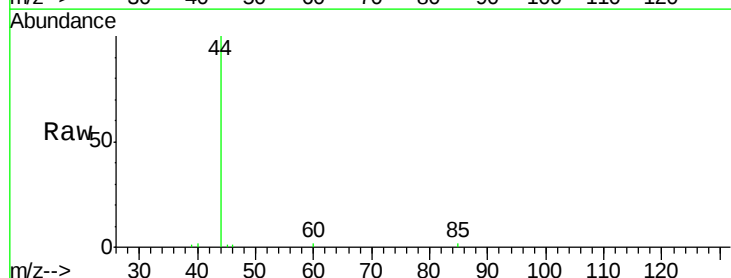
Acq: 24 Jul 2018 01:49

Tgt Ion: 85 Resp: 119

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

150

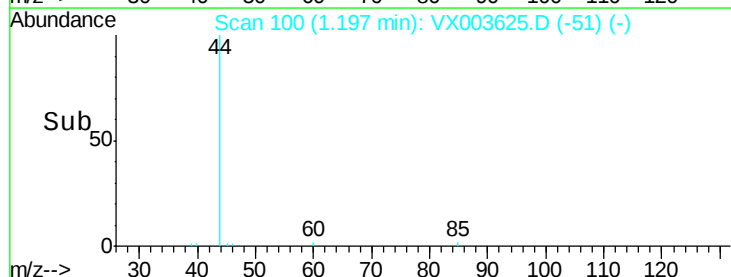
100

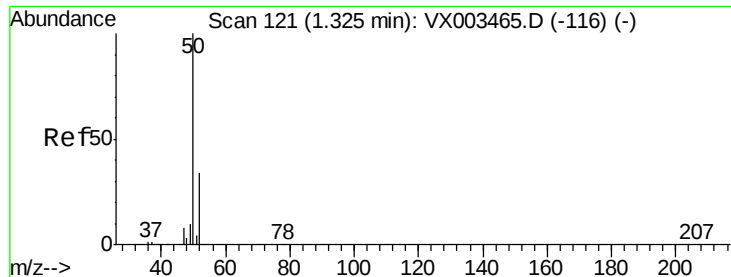
50

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

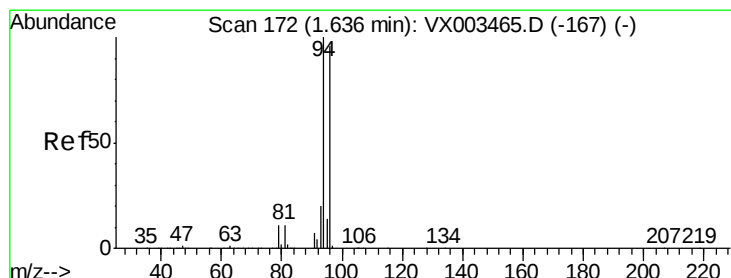
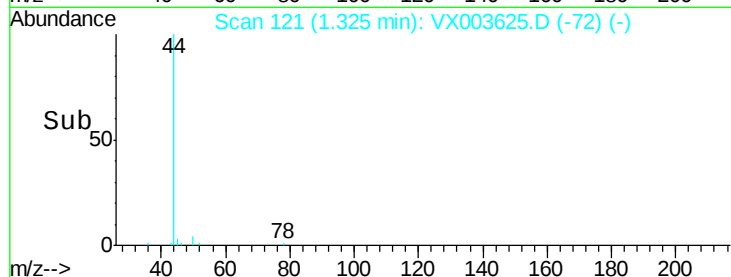
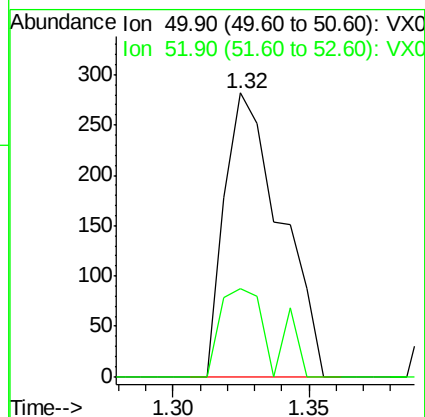
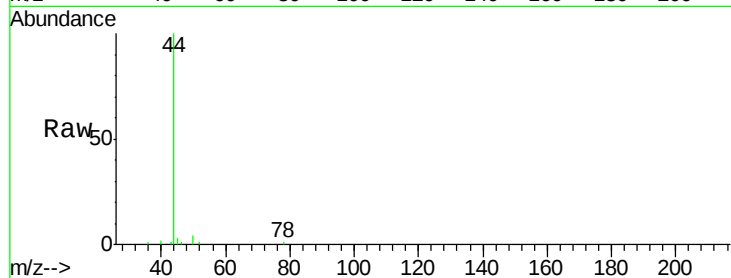
RE126D1-071718

Tot Ion: 50 Resp: 403

Ion Ratio Lower Upper

50 100

52 31.2 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003625.D

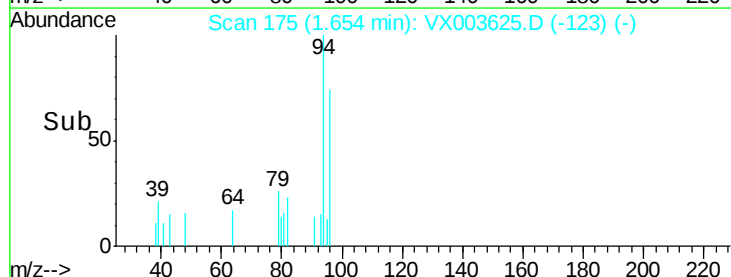
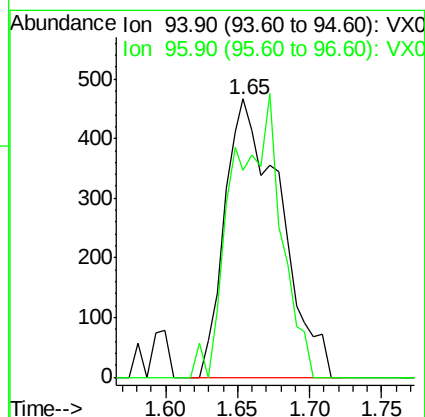
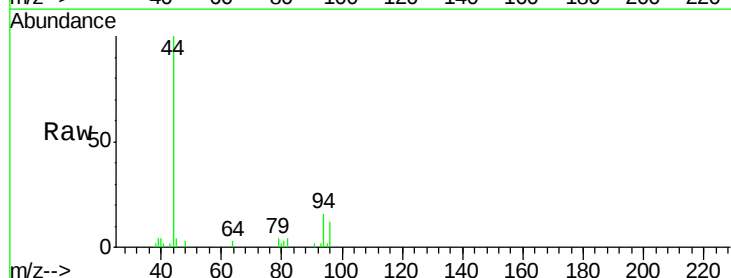
Acq: 24 Jul 2018 01:49

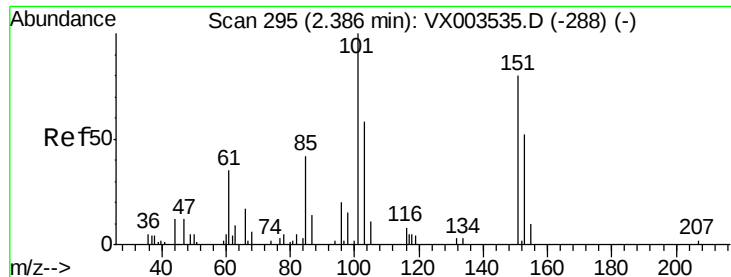
Tgt Ion: 94 Resp: 1253

Ion Ratio Lower Upper

94 100

96 74.2 74.9 112.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.24 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-071718

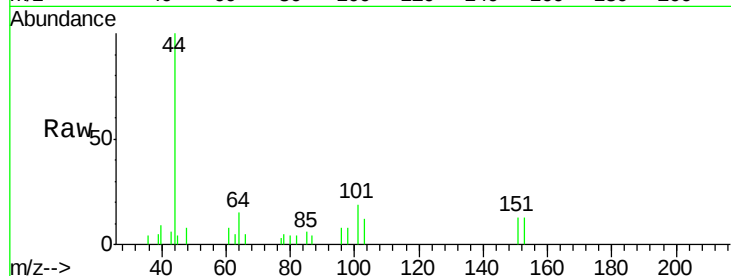
Tot Ion:101 Resp: 654

Ion Ratio Lower Upper

101 100

85 38.5 36.0 54.0

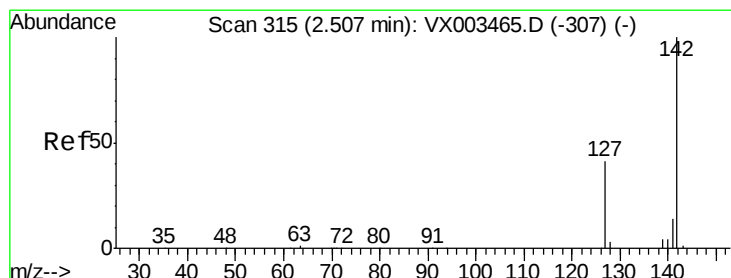
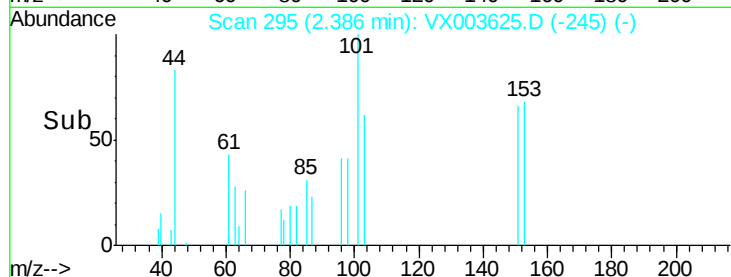
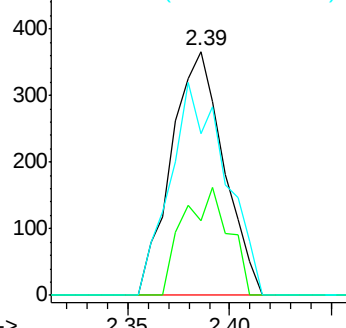
151 91.9 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.23 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

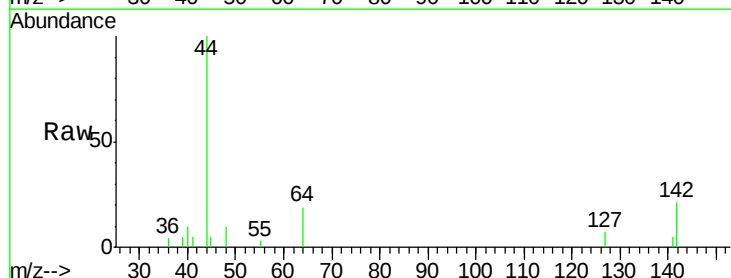
Tgt Ion:142 Resp: 763

Ion Ratio Lower Upper

142 100

127 40.6 36.6 55.0

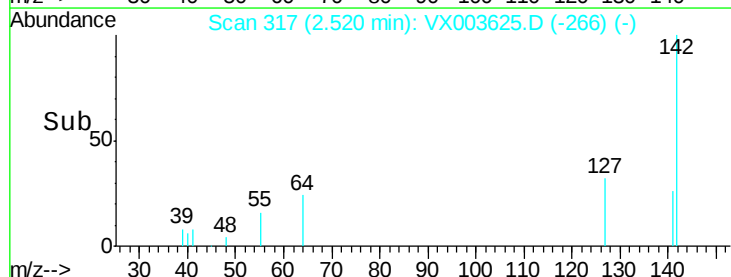
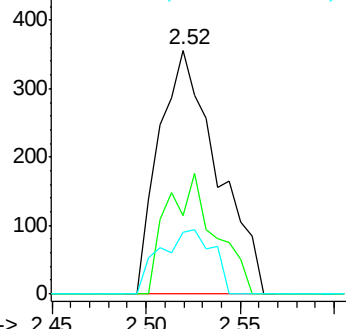
141 24.0 11.3 16.9#

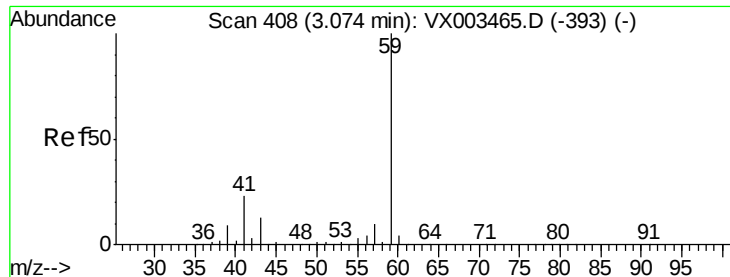


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

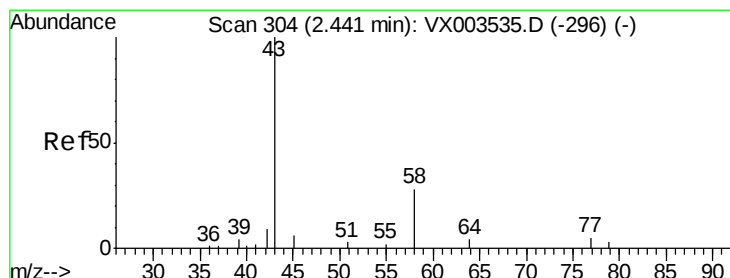
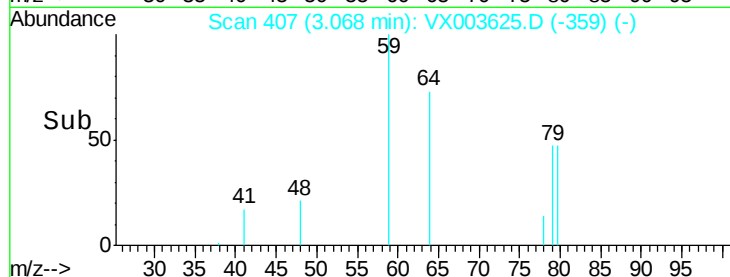
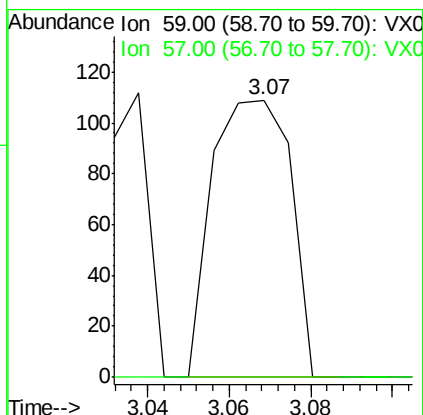
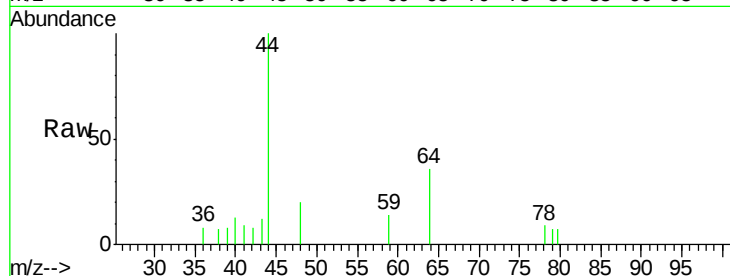




#11
Tert butyl alcohol
Concen: 0.25 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

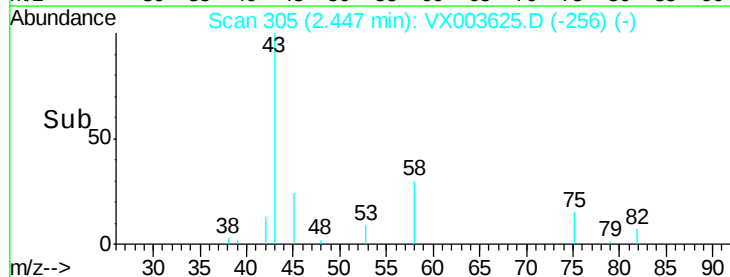
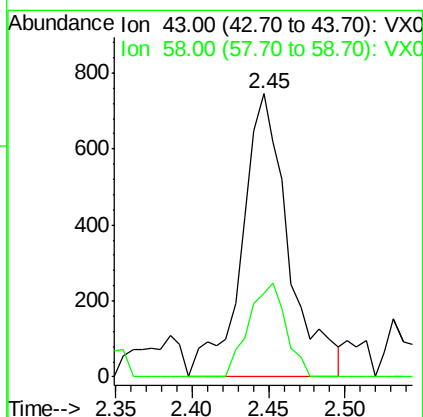
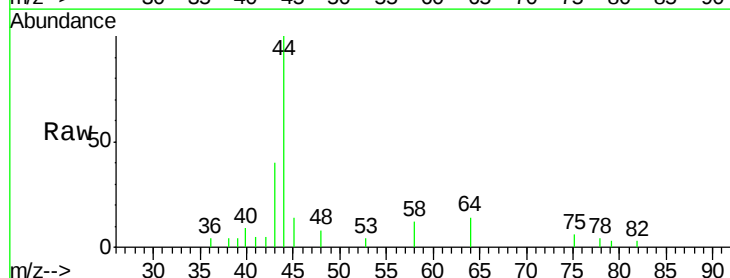
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-071718

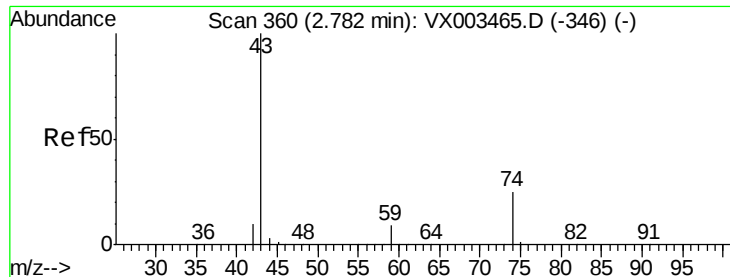
Tot Ion: 59 Resp: 146
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 1.44 ug/l
RT: 2.45 min Scan# 305
Delta R.T. 0.00 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

Tgt Ion: 43 Resp: 1583
Ion Ratio Lower Upper
43 100
58 29.7 22.1 33.1

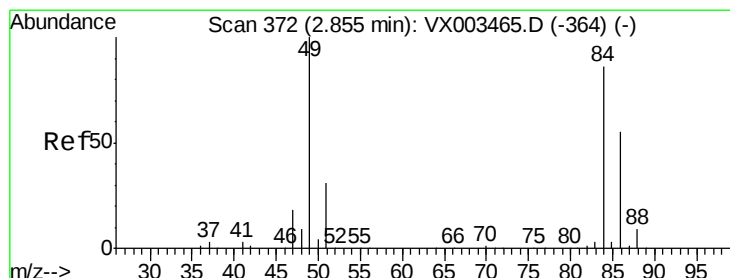
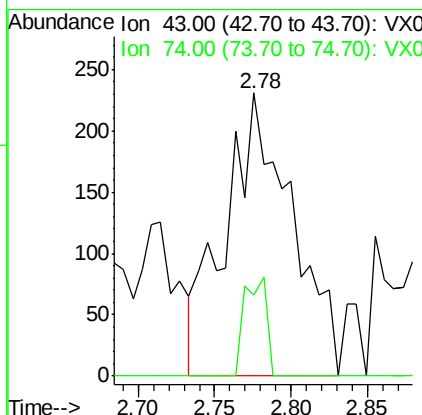
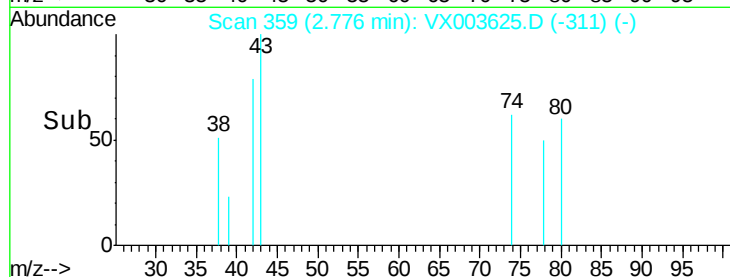
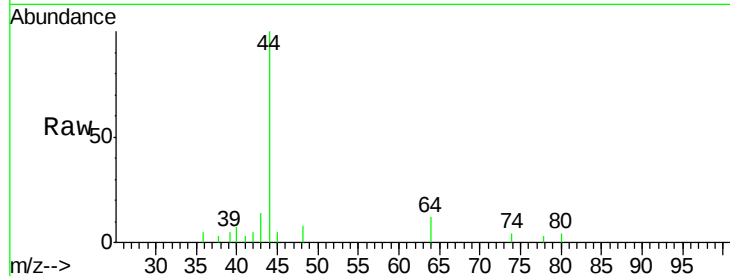




#18
Methyl Acetate
Concen: 0.20 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

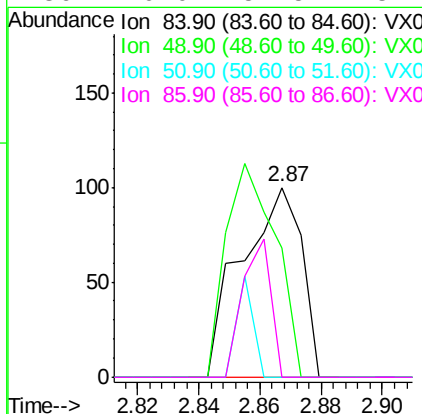
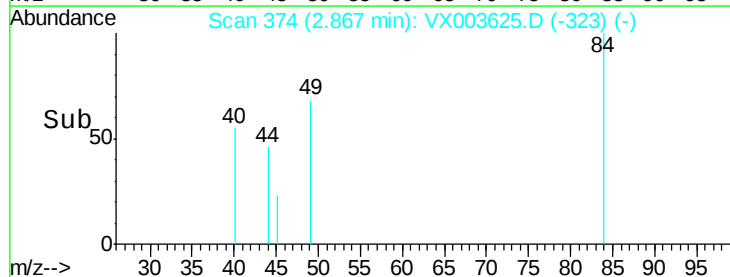
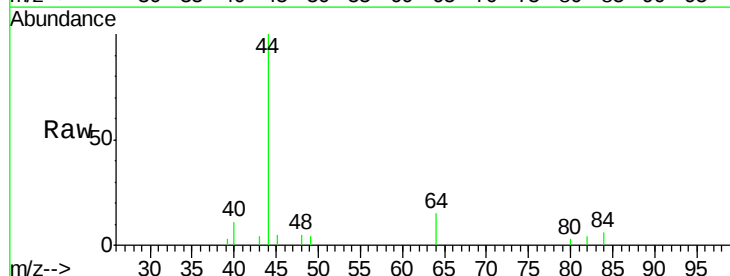
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-071718

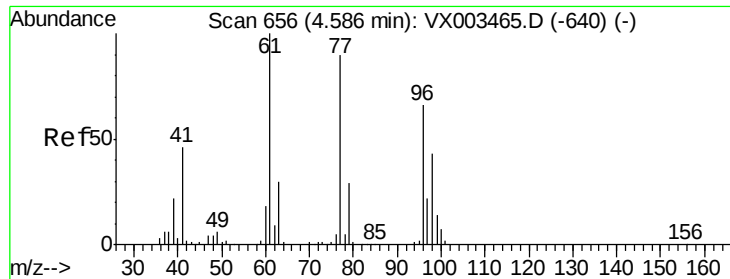
Tot Ion: 43 Resp: 699
Ion Ratio Lower Upper
43 100
74 11.4 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

Tgt Ion: 84 Resp: 136
Ion Ratio Lower Upper
84 100
49 68.0 107.8 161.6#
51 0.0 32.8 49.2#
86 0.0 52.5 78.7#





#26

2,2-Dichloropropane

Concen: 0.22 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.20 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

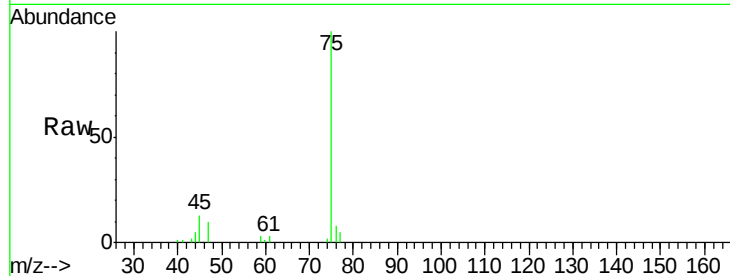
RE126D1-071718

Tot Ion: 77 Resp: 826

Ion Ratio Lower Upper

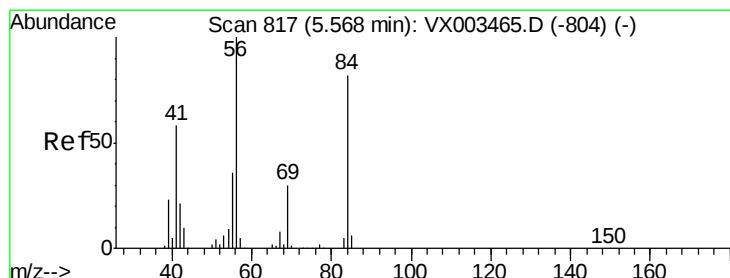
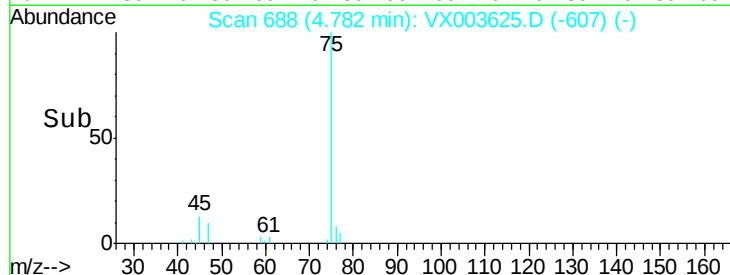
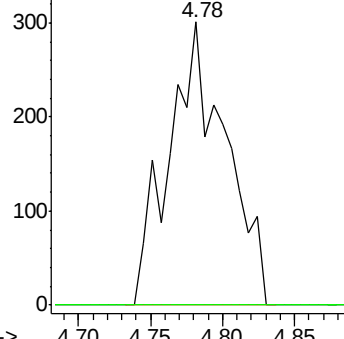
77 100

97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 0.76 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

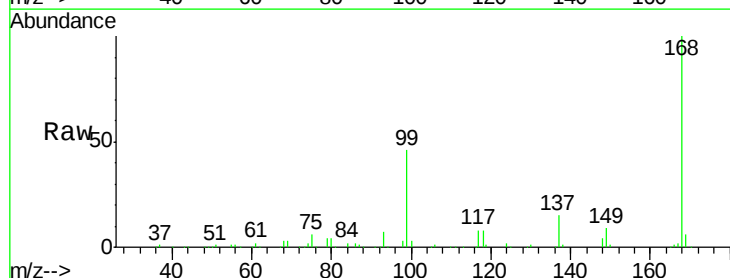
Tgt Ion: 56 Resp: 3349

Ion Ratio Lower Upper

56 100

69 206.2 23.7 35.5#

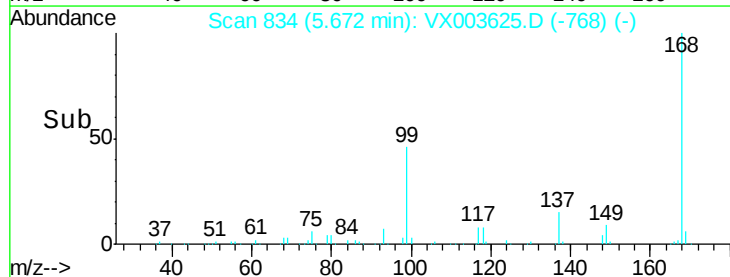
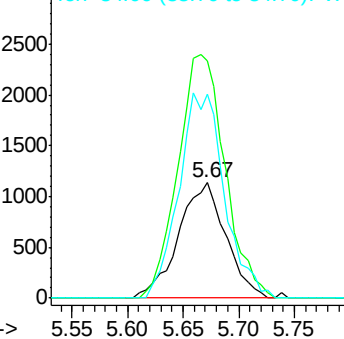
84 177.4 64.1 96.1#

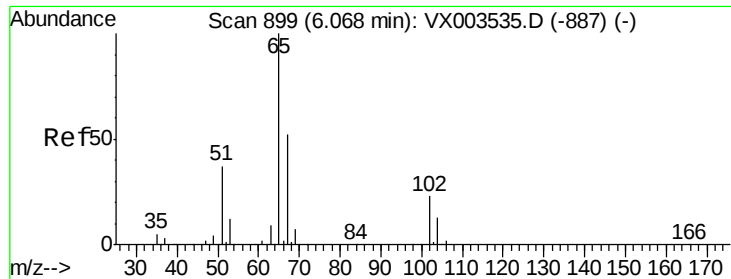


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.50 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

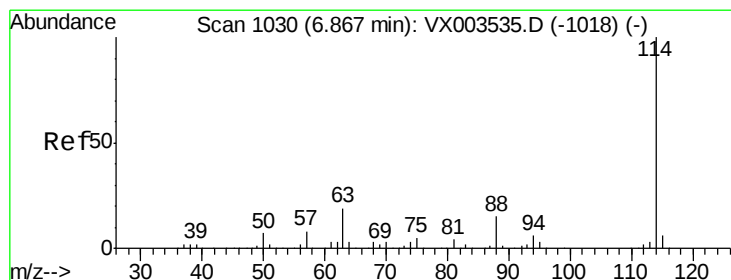
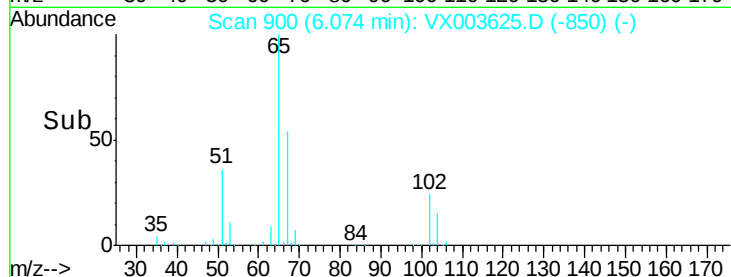
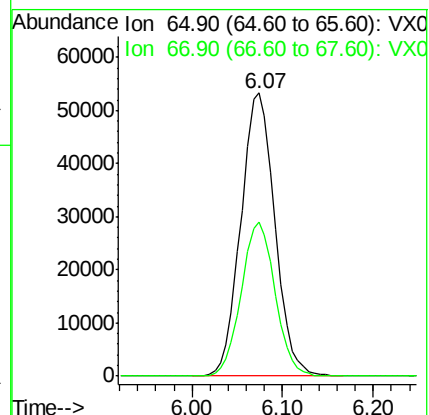
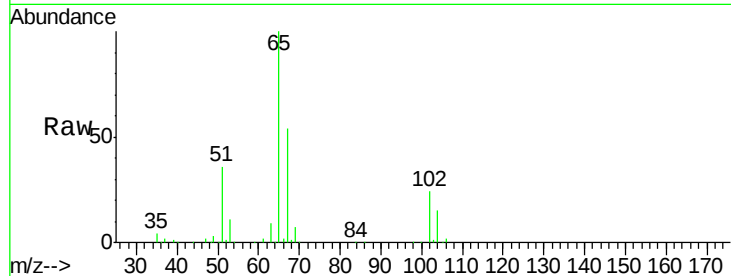
RE126D1-071718

Tot Ion: 65 Resp: 138459

Ion Ratio Lower Upper

65 100

67 54.3 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

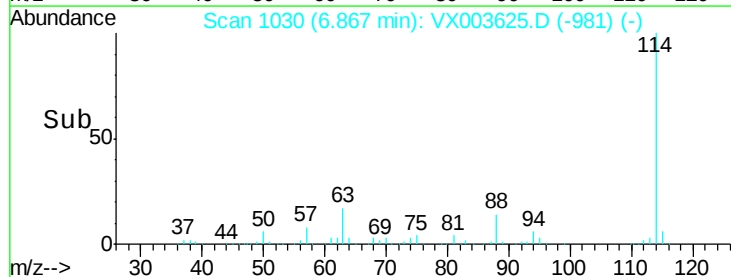
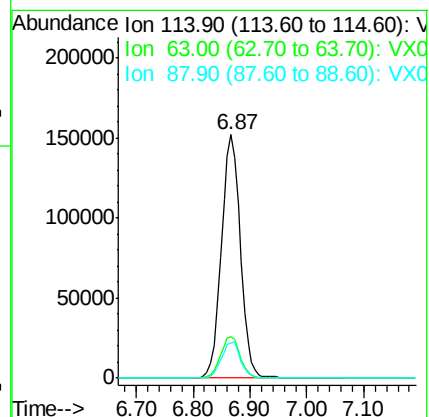
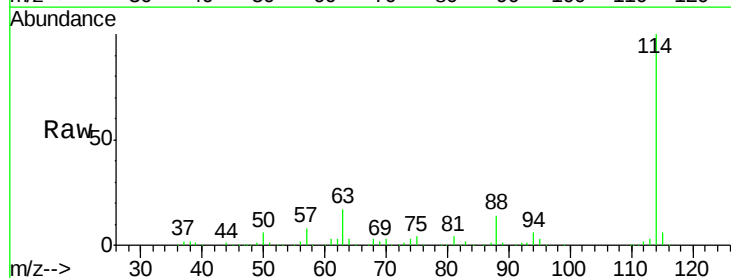
Tgt Ion: 114 Resp: 351131

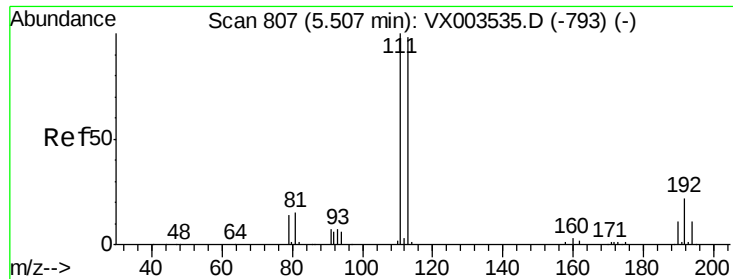
Ion Ratio Lower Upper

114 100

63 17.2 0.0 41.4

88 14.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.00 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-071718

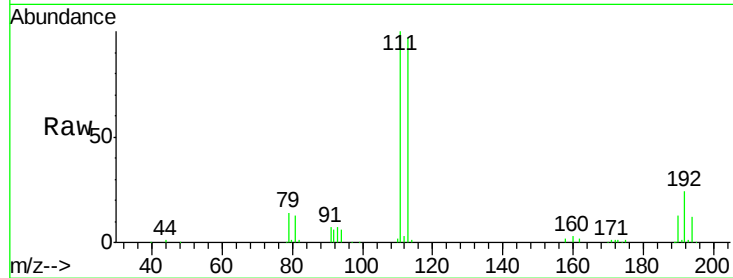
Tot Ion:113 Resp: 131052

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

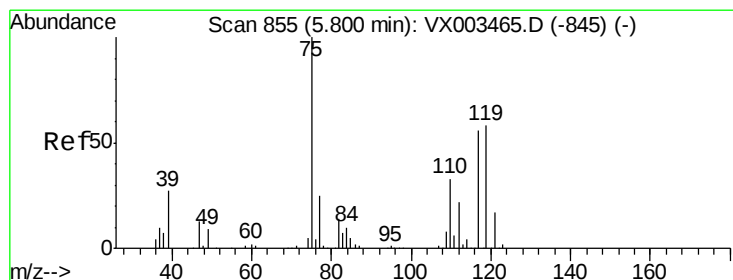
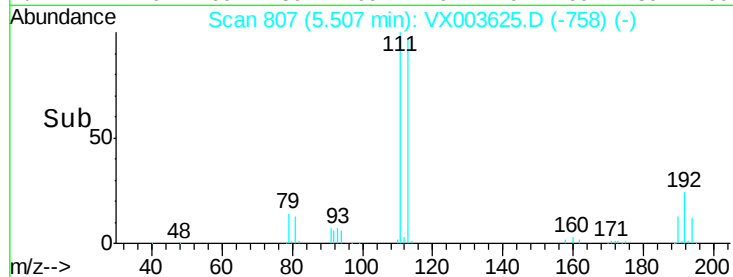
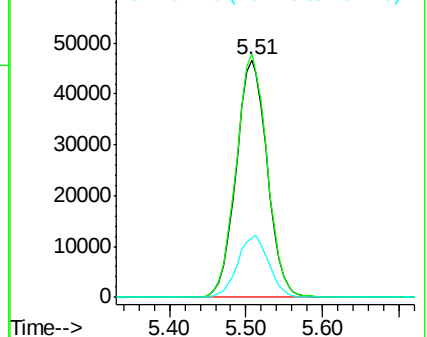
192 26.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.57 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

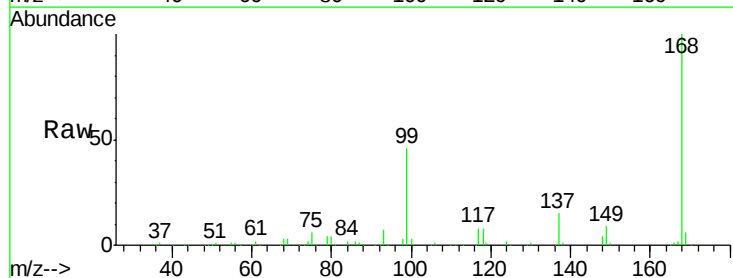
Tgt Ion: 75 Resp: 13550

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

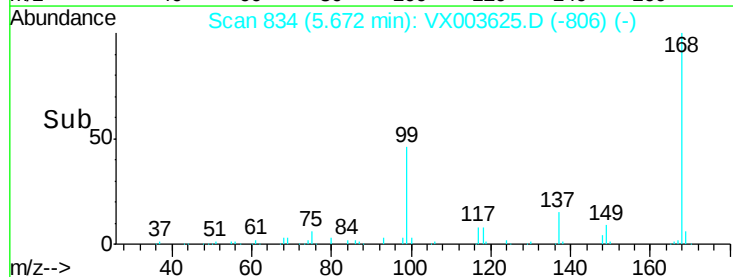
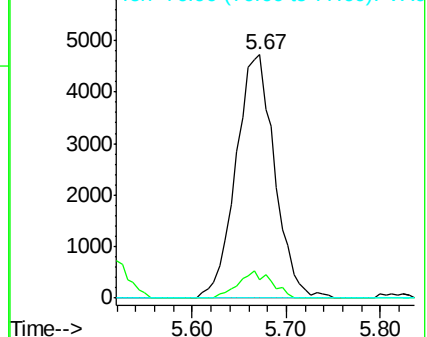
77 0.0 24.3 36.5#

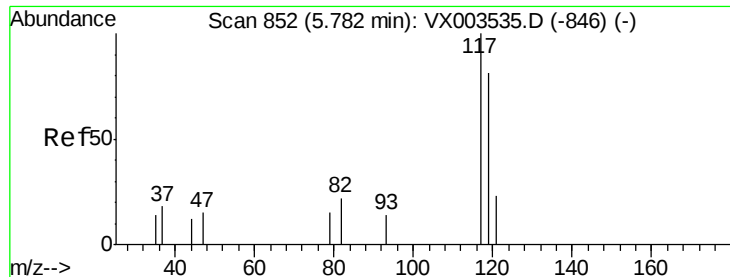


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

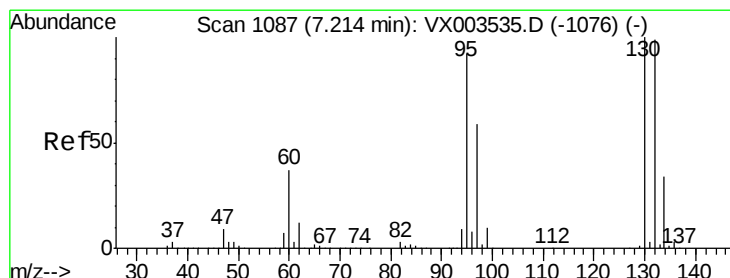
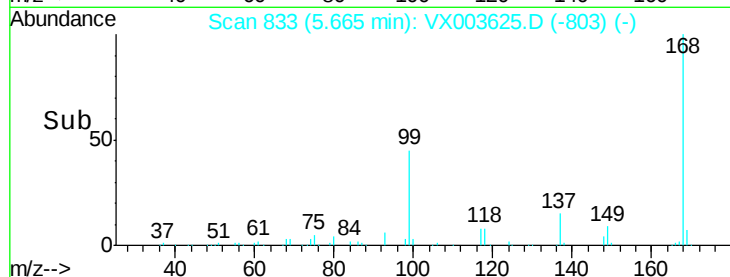
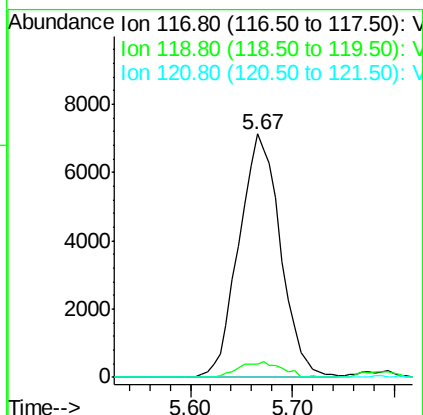
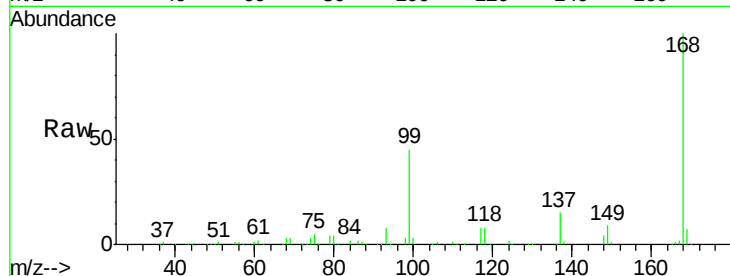




#38
Carbon Tetrachloride
Concen: 5.41 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

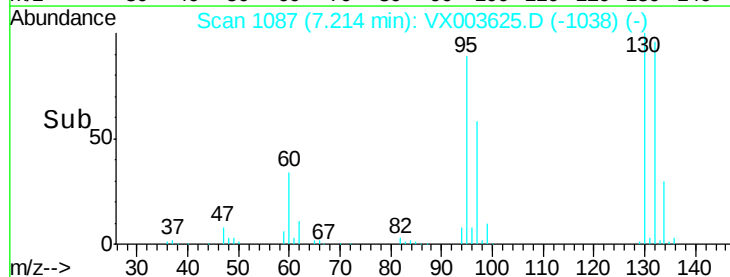
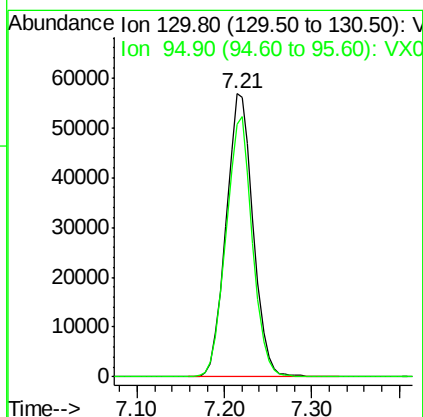
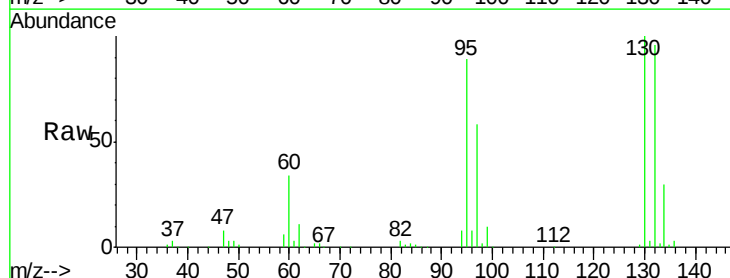
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-071718

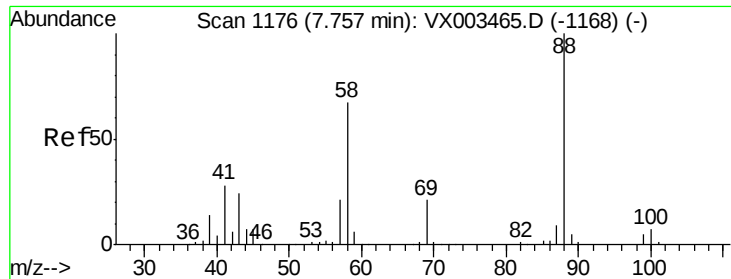
Tot Ion:117 Resp: 20136
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 24.4 36.6#



#44
Trichloroethene
Concen: 35.69 ug/l
RT: 7.21 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

Tgt Ion:130 Resp: 121815
Ion Ratio Lower Upper
130 100
95 89.1 0.0 185.4

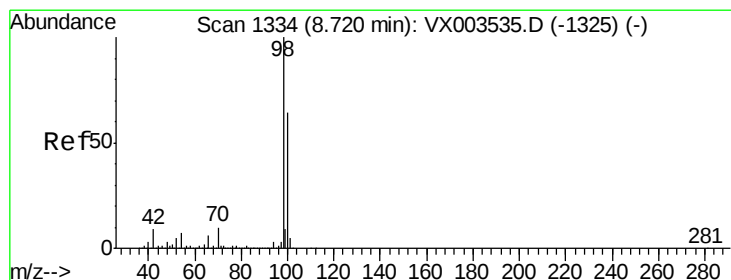
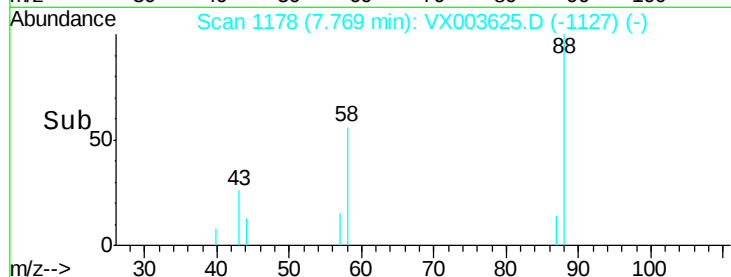
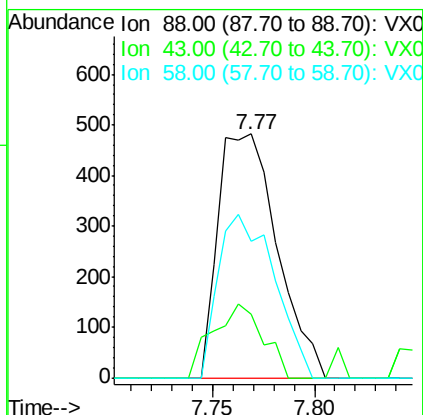
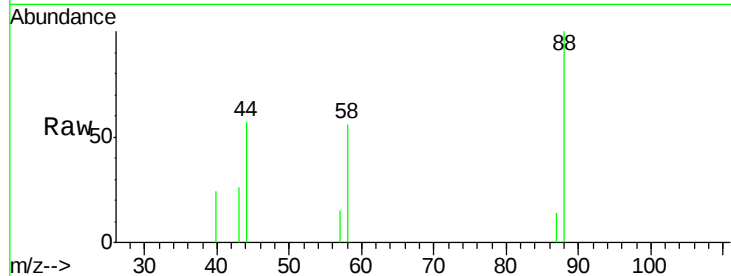




#49
 1,4-Dioxane
 Concen: 14.89 ug/l
 RT: 7.77 min Scan# 1178
 Delta R.T. 0.01 min
 Lab File: VX003625.D
 Acq: 24 Jul 2018 01:49

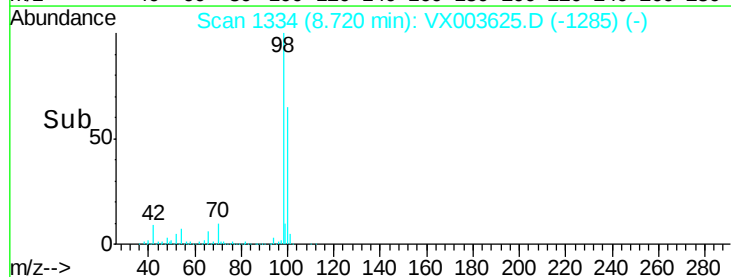
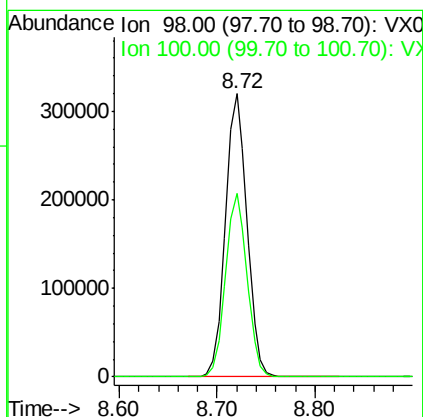
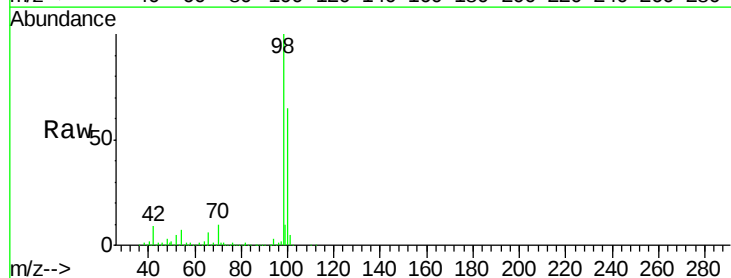
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-071718

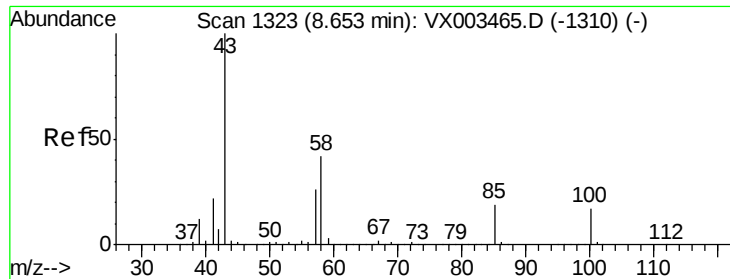
Tot Ion: 88 Resp: 971
 Ion Ratio Lower Upper
 88 100
 43 25.6 29.8 44.6#
 58 63.7 57.1 85.7



#50
 Toluene-d8
 Concen: 48.75 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003625.D
 Acq: 24 Jul 2018 01:49

Tgt Ion: 98 Resp: 490023
 Ion Ratio Lower Upper
 98 100
 100 64.6 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.48 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

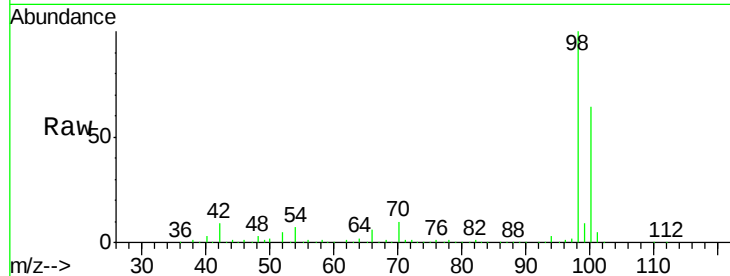
RE126D1-071718

Tot Ion: 43 Resp: 1726

Ion Ratio Lower Upper

43 100

58 188.8 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

500

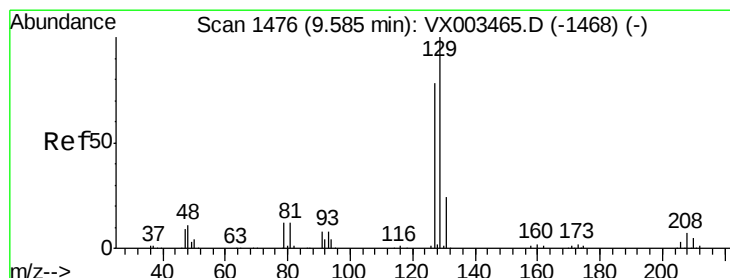
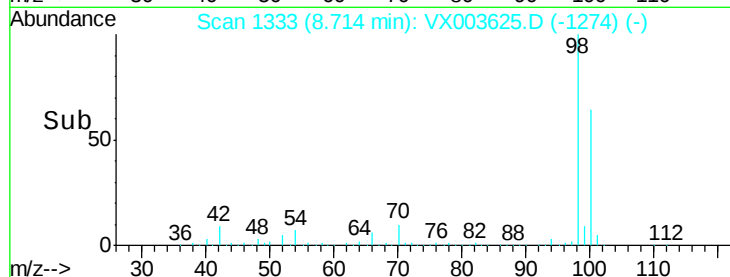
0

8.65

8.70

8.75

Time-->



#60

Dibromochloromethane

Concen: 0.39 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX003625.D

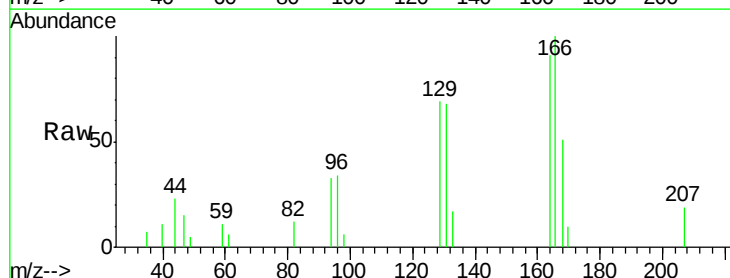
Acq: 24 Jul 2018 01:49

Tgt Ion: 129 Resp: 1104

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

800

600

400

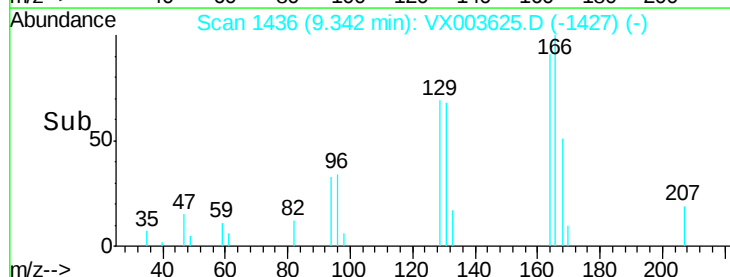
200

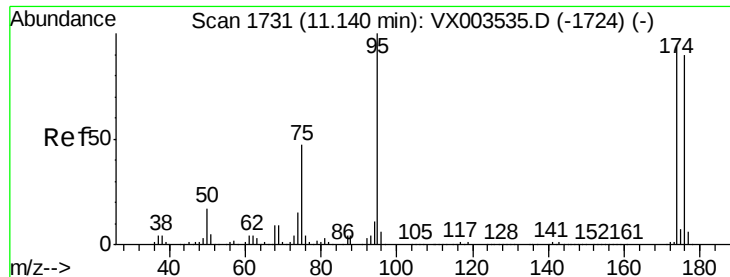
0

9.30

9.35

Time-->

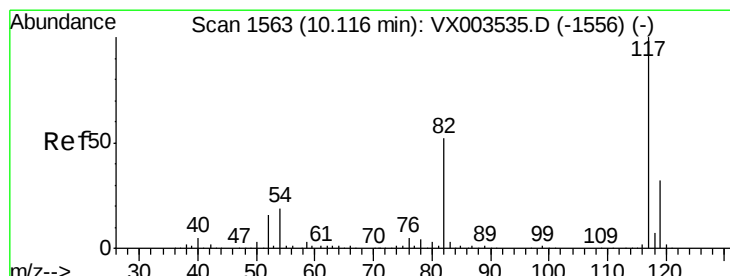
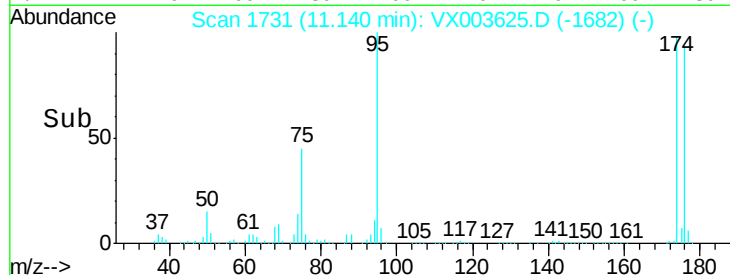
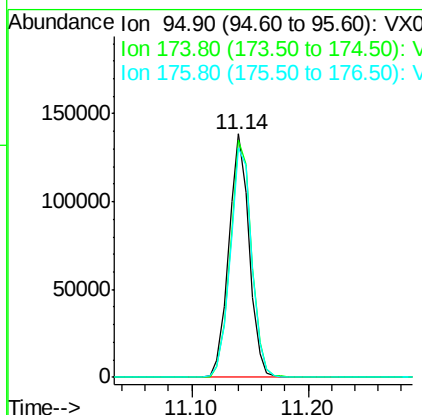
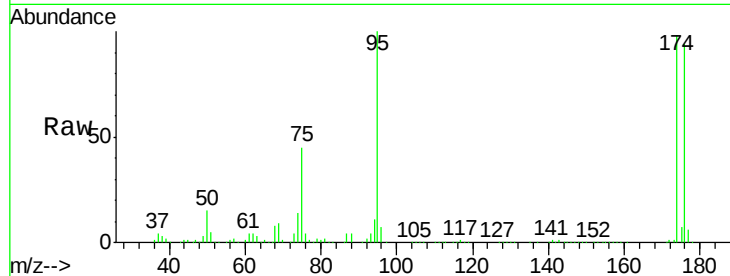




#62
4-Bromofluorobenzene
Concen: 45.79 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

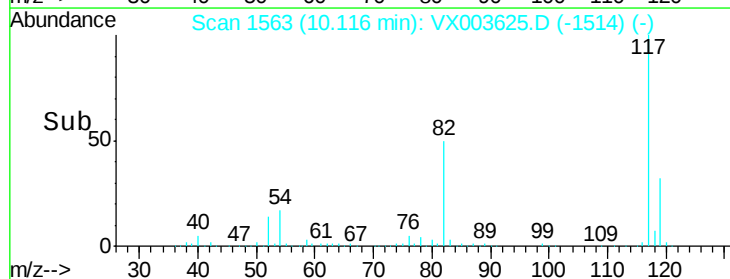
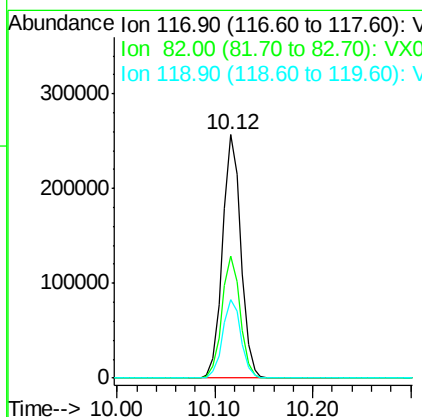
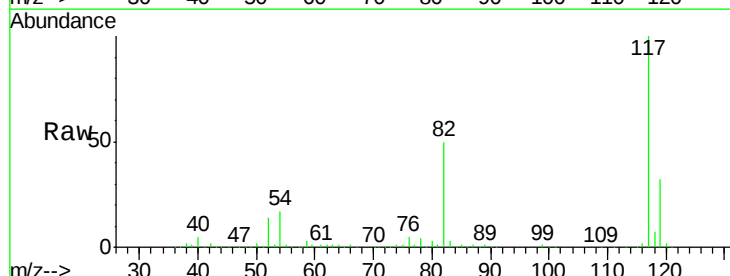
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-071718

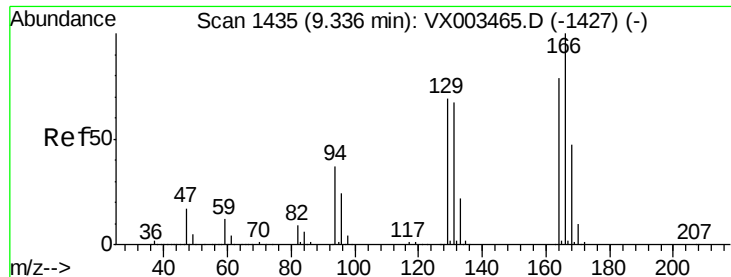
Tot Ion: 95 Resp: 167986
Ion Ratio Lower Upper
95 100
174 102.0 0.0 187.4
176 99.3 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003625.D
Acq: 24 Jul 2018 01:49

Tgt Ion: 117 Resp: 333464
Ion Ratio Lower Upper
117 100
82 50.2 45.0 67.4
119 32.4 25.8 38.6

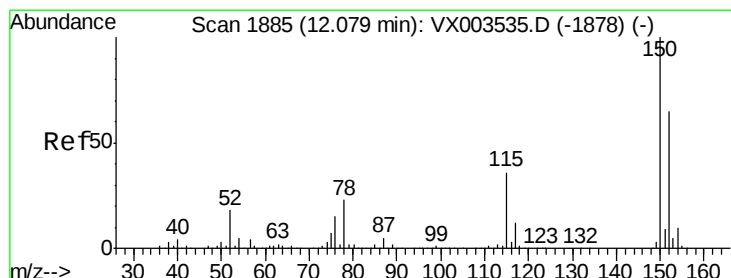
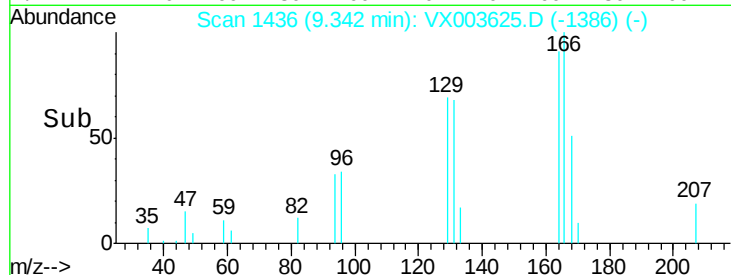
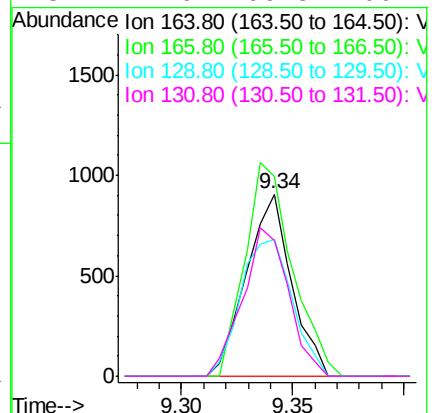
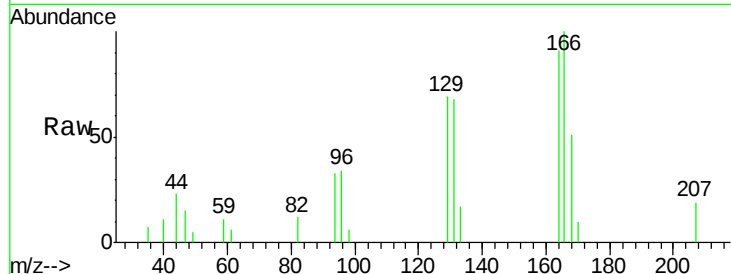




#64
 Tetrachloroethene
 Concen: 0.32 ug/l
 RT: 9.34 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: VX003625.D
 Acq: 24 Jul 2018 01:49

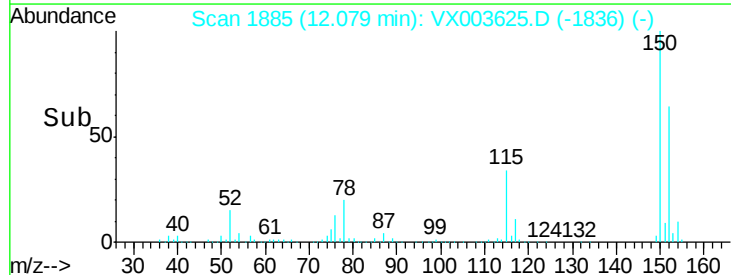
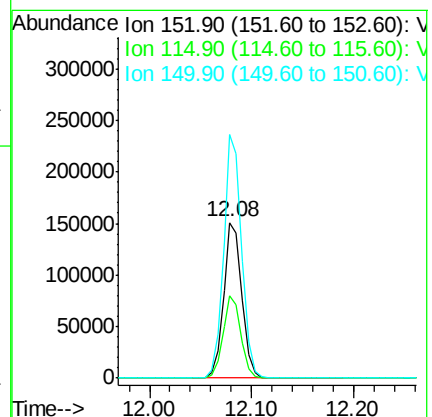
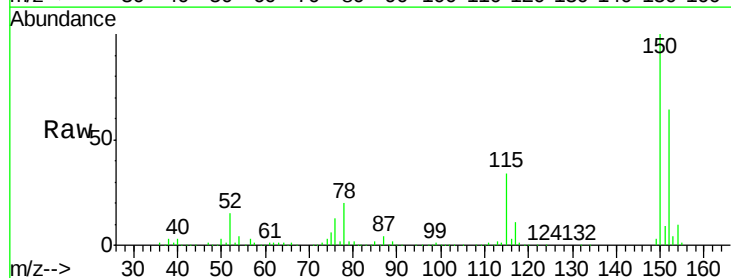
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-071718

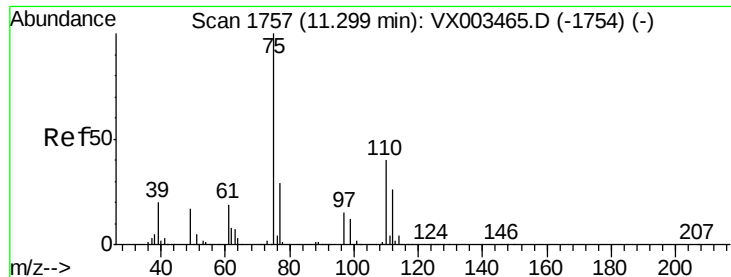
Tot Ion:	164	Resp:	1285
Ion	Ratio	Lower	Upper
164	100		
166	109.8	102.9	154.3
129	75.5	68.6	102.8
131	74.6	66.8	100.2



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.08 min Scan# 1885
 Delta R.T. 0.00 min
 Lab File: VX003625.D
 Acq: 24 Jul 2018 01:49

Tgt Ion:	152	Resp:	187911
Ion	Ratio	Lower	Upper
152	100		
115	52.1	40.1	120.2
150	155.0	0.0	347.2





#76

1,2,3-Trichloropropane

Concen: 22.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

Instrument :

MSVOA_X

ClientSampleId :

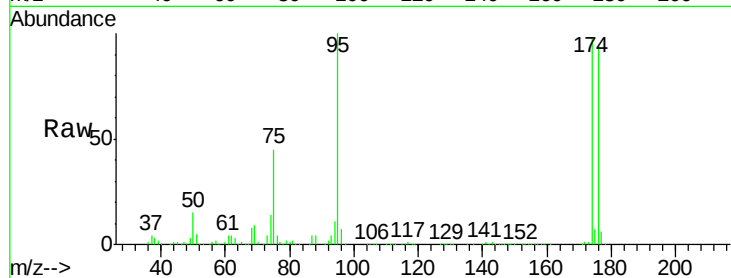
RE126D1-071718

Tot Ion: 75 Resp: 75827

Ion Ratio Lower Upper

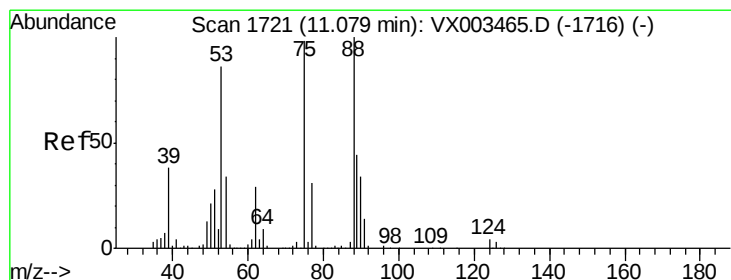
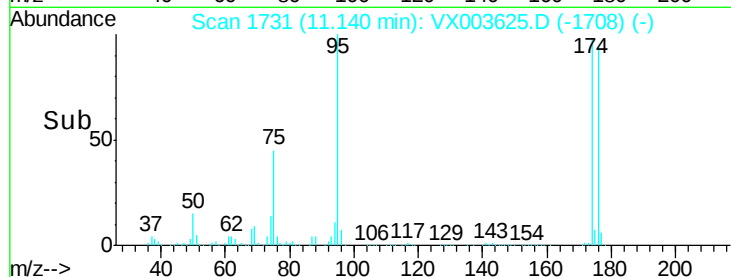
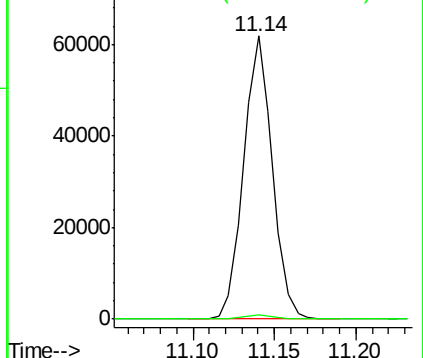
75 100

77 1.5 22.8 68.3#



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: 63.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003625.D

Acq: 24 Jul 2018 01:49

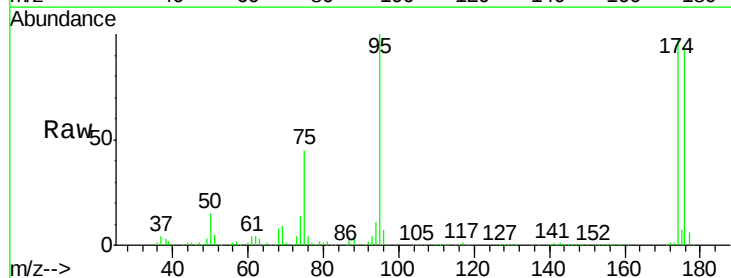
Tgt Ion: 75 Resp: 75827

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

