

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008024.D
 Acq On : 12 Mar 2019 18:47
 Operator : JC/SP
 Sample : K1793-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-20190306

Quant Time: Mar 13 05:22:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	253472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	398037	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	383436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185236	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	140973	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
35) Dibromofluoromethane	5.51	113	128787	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
50) Toluene-d8	8.71	98	489383	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	11.13	95	180075	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	

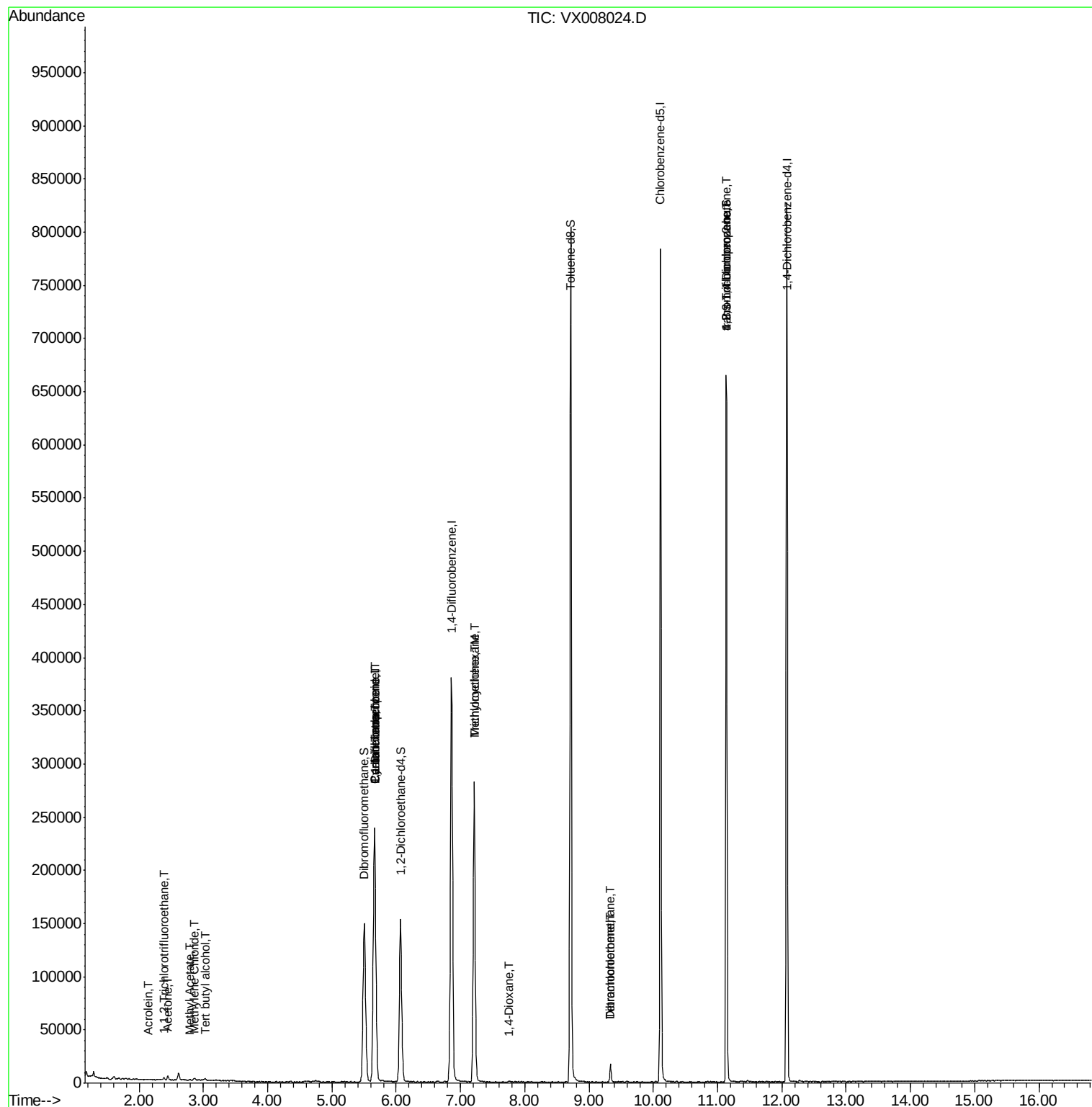
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	52	Below Cal	#	2
9) 1,1,2-Trichlorotrifluoroet	2.39	101	535	0.239	ug/l #	93
11) Tert butyl alcohol	3.03	59	1128	1.886	ug/l #	73
13) Acrolein	2.15	56	21	1.603	ug/l #	13
16) Acetone	2.45	43	3907	2.524	ug/l	91
17) Carbon Disulfide	2.58	76	460	Below Cal	#	55
18) Methyl Acetate	2.78	43	780	0.237	ug/l #	74
20) Methylene Chloride	2.86	84	790	0.321	ug/l	85
31) Cyclohexane	5.66	56	3893	0.948	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15665	4.346	ug/l #	48
38) Carbon Tetrachloride	5.67	117	21483	6.279	ug/l #	17
39) Methylcyclohexane	7.21	83	1223	0.280	ug/l #	1
44) Trichloroethene	7.21	130	115326	39.002	ug/l	98
49) 1,4-Dioxane	7.75	88	766	11.205	ug/l	98
60) Dibromochloromethane	9.34	129	3061	1.104	ug/l #	11
64) Tetrachloroethene	9.34	164	3664	1.153	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	81733	21.027	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	81733	67.213	ug/l #	11

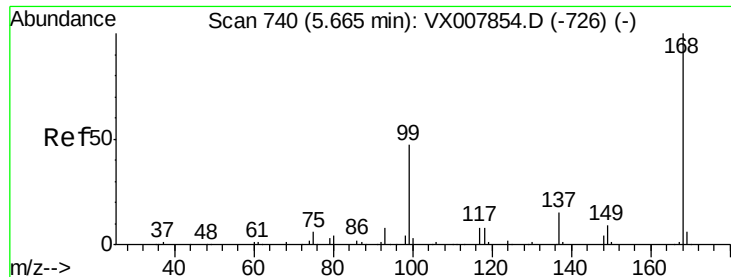
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

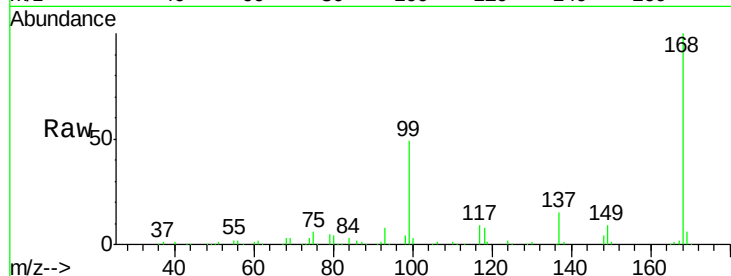
RE126D1-20190306

Tot Ion:168 Resp: 253472

Ion Ratio Lower Upper

168 100

99 48.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

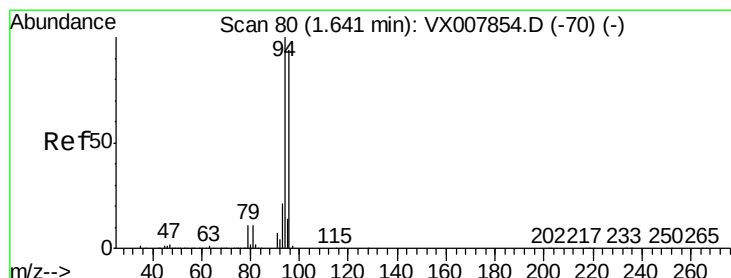
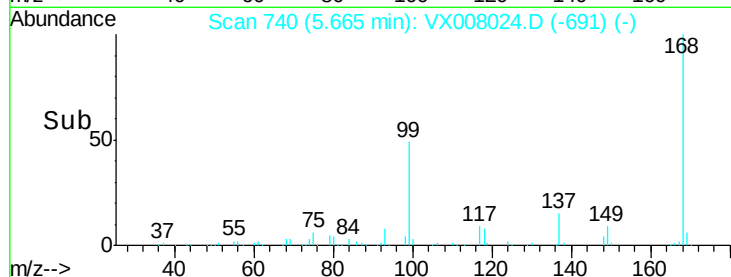
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX008024.D

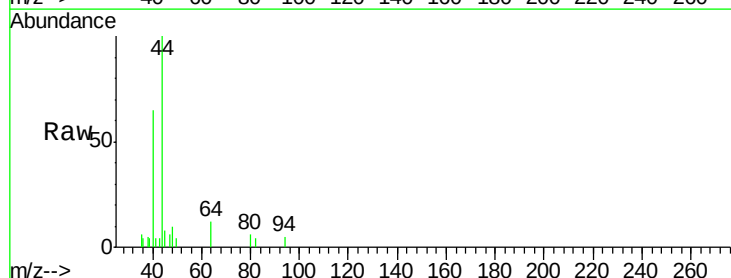
Acq: 12 Mar 2019 18:47

Tgt Ion: 94 Resp: 52

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

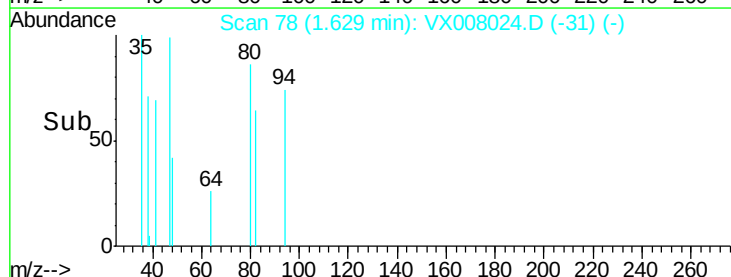
150

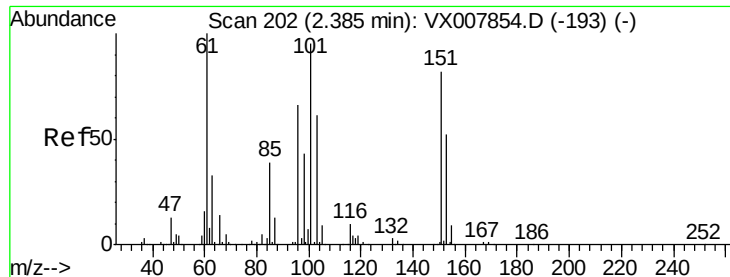
100

50

0

Time--> 1.61 1.62 1.63 1.64 1.65





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.239 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-20190306

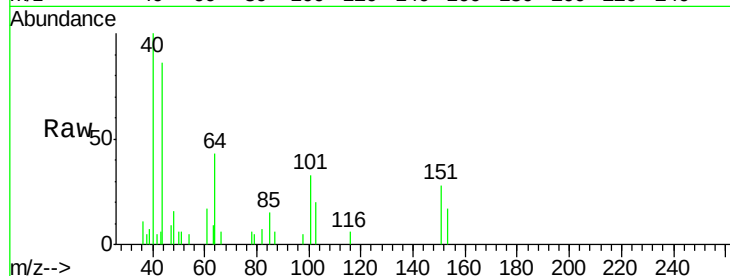
Tot Ion:101 Resp: 535

Ion Ratio Lower Upper

101 100

85 54.0 33.8 50.6#

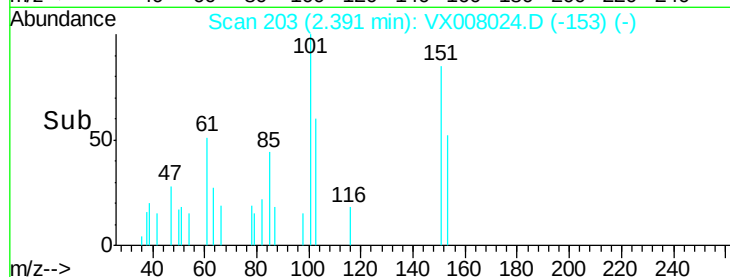
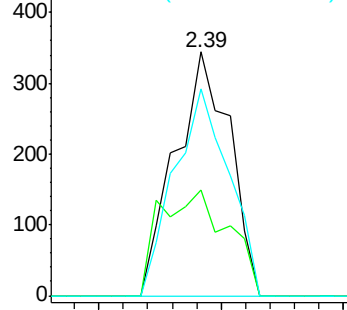
151 85.2 69.1 103.7



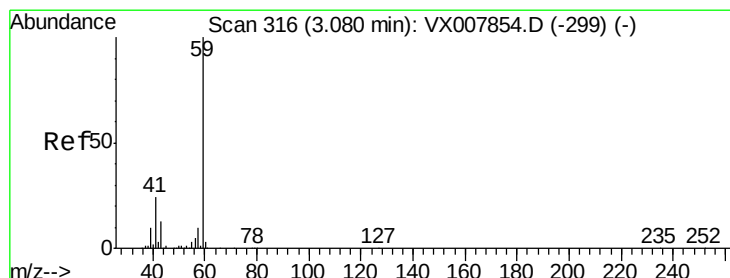
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



Time-->



#11

Tert butyl alcohol

Concen: 1.886 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX008024.D

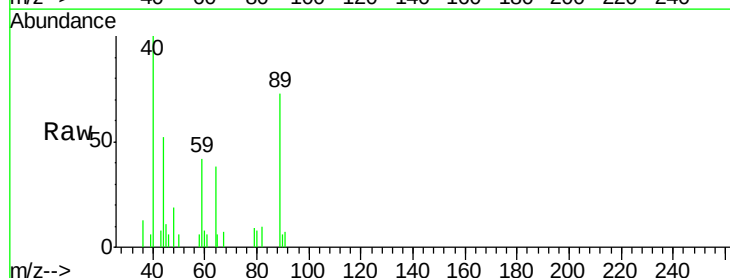
Acq: 12 Mar 2019 18:47

Tgt Ion: 59 Resp: 1128

Ion Ratio Lower Upper

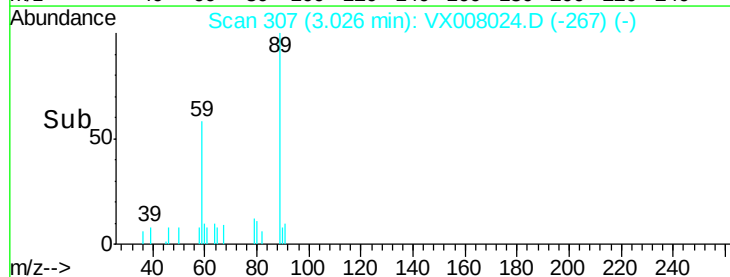
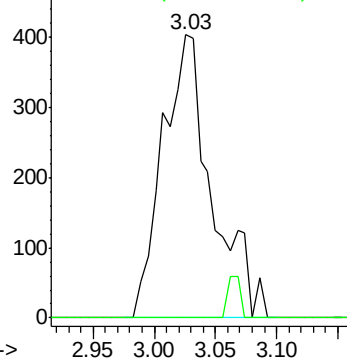
59 100

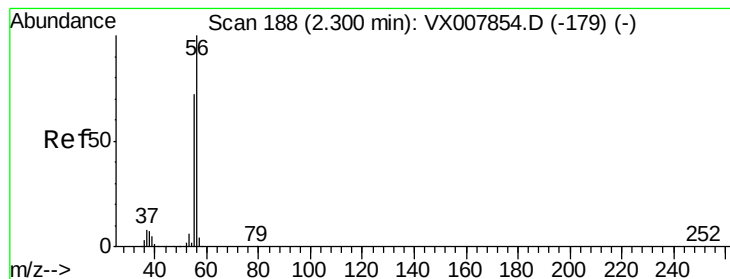
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.603 ug/l

RT: 2.15 min Scan# 163

Delta R.T. -0.15 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

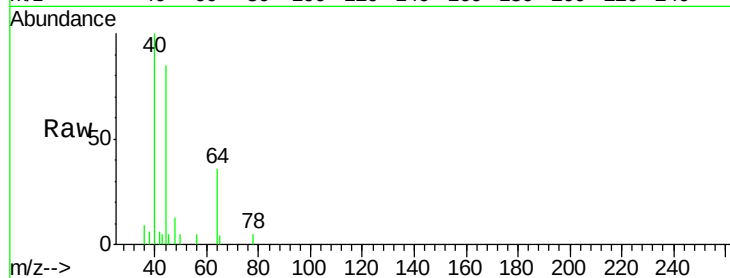
RE126D1-20190306

Tot Ion: 56 Resp: 21

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#

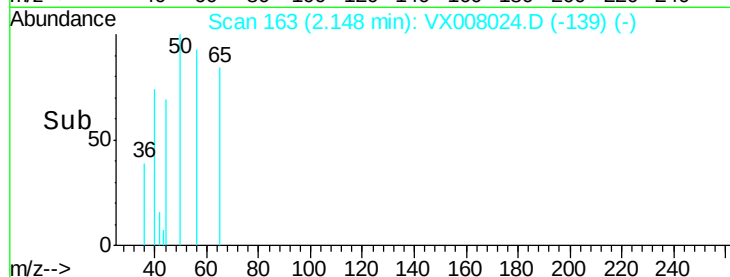


Abundance Ion 56.00 (55.70 to 56.70): VX0

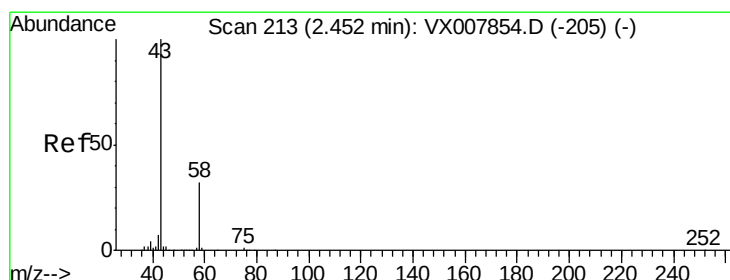
Ion 55.00 (54.70 to 55.70): VX0

2.15

Time-->



Time-->



#16

Acetone

Concen: 2.524 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008024.D

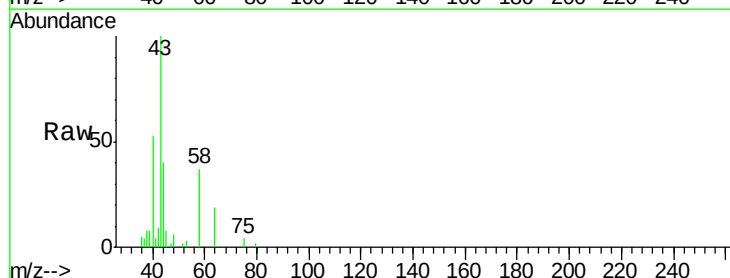
Acq: 12 Mar 2019 18:47

Tgt Ion: 43 Resp: 3907

Ion Ratio Lower Upper

43 100

58 36.8 25.5 38.3

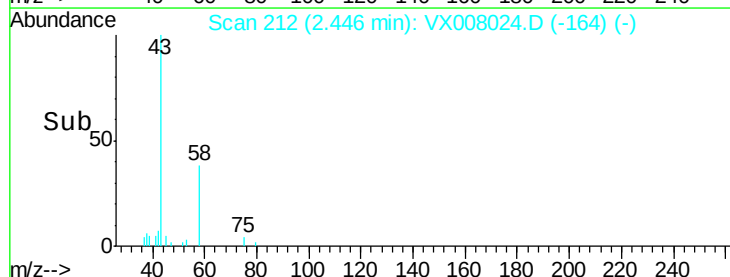


Abundance Ion 43.00 (42.70 to 43.70): VX0

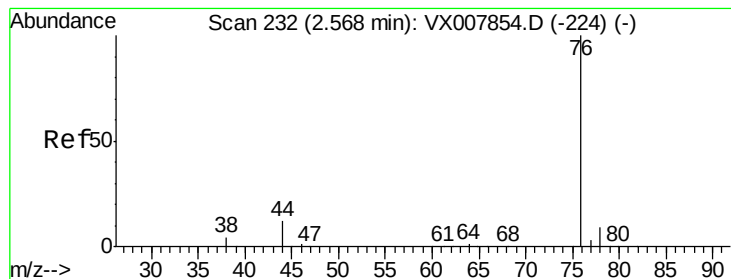
Ion 58.00 (57.70 to 58.70): VX0

2.45

Time-->



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

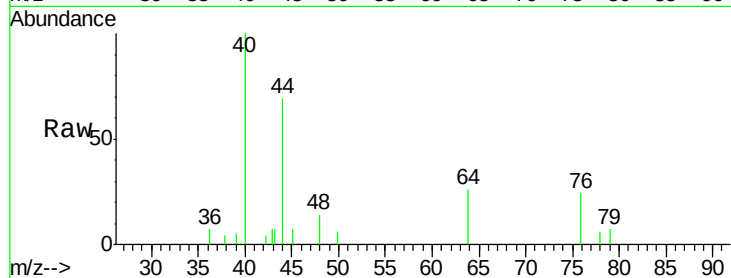
RE126D1-20190306

Tot Ion: 76 Resp: 460

Ion Ratio Lower Upper

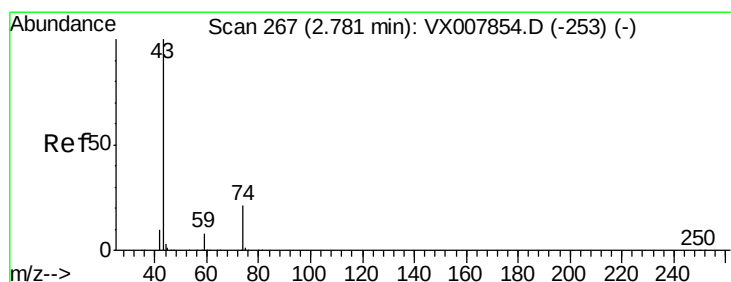
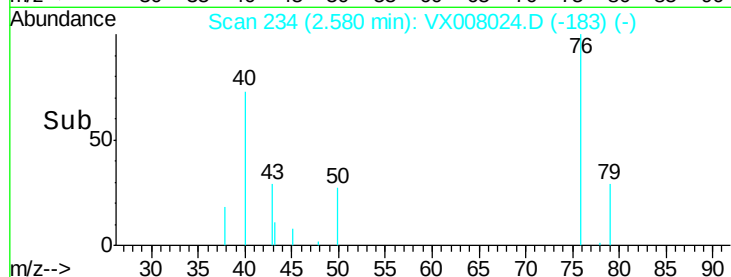
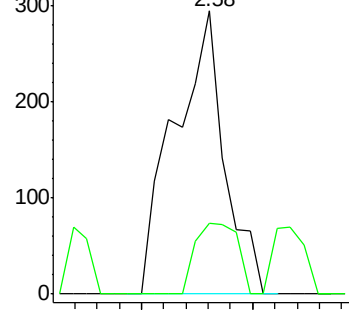
76 100

78 25.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.237 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX008024.D

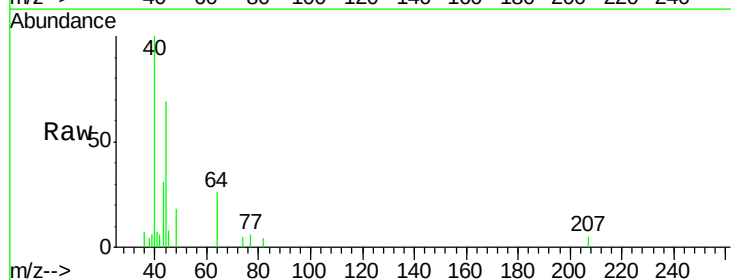
Acq: 12 Mar 2019 18:47

Tgt Ion: 43 Resp: 780

Ion Ratio Lower Upper

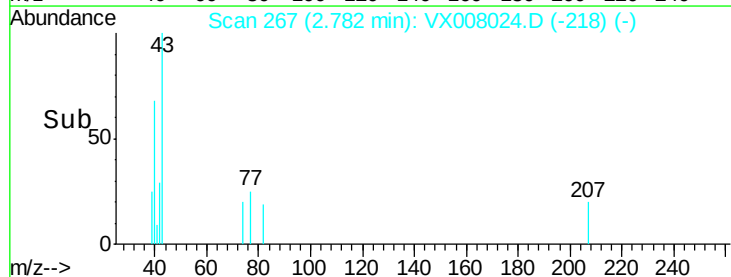
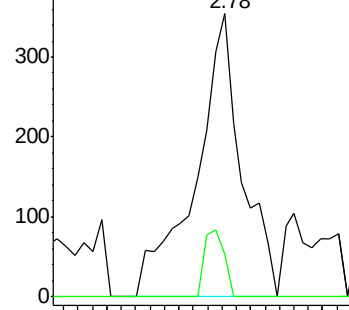
43 100

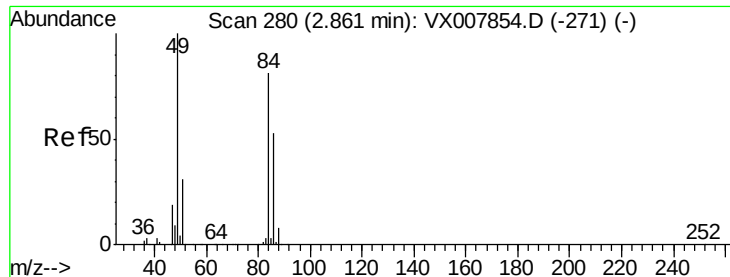
74 10.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

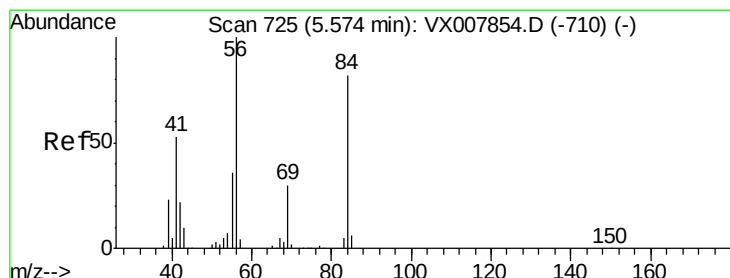
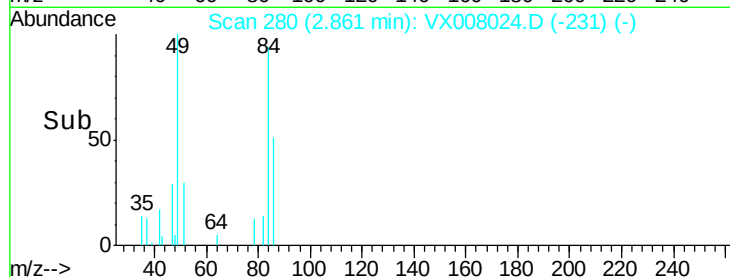
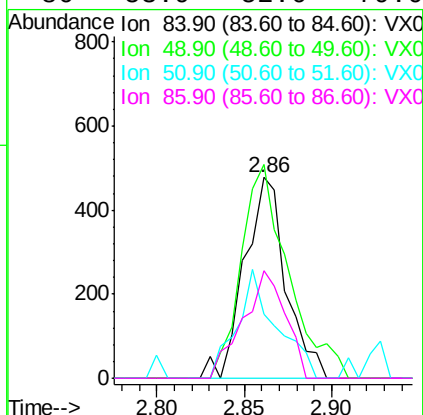
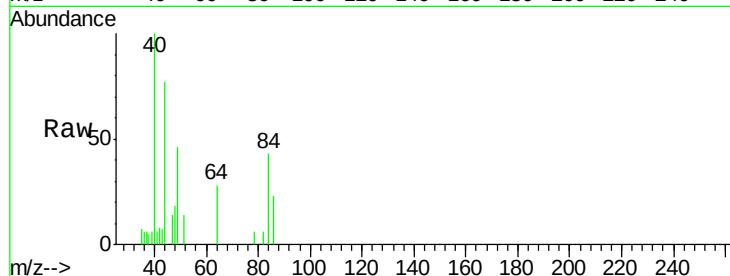




#20
Methvlene Chloride
Concen: 0.321 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX008024.D
Acq: 12 Mar 2019 18:47

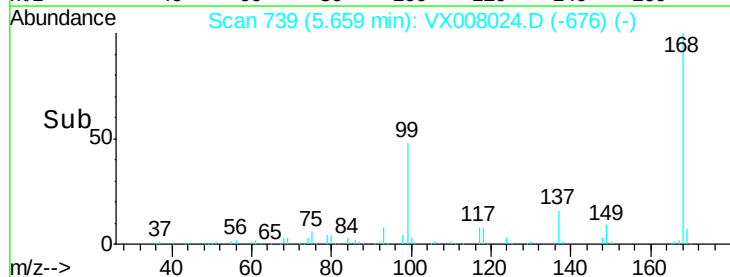
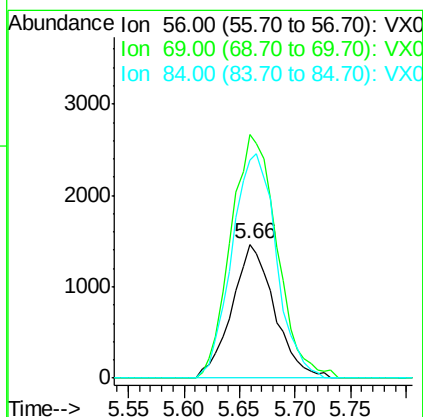
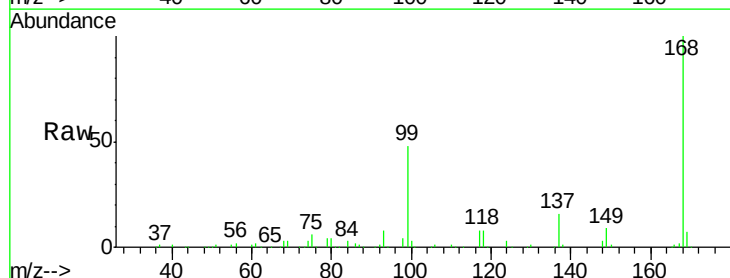
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-20190306

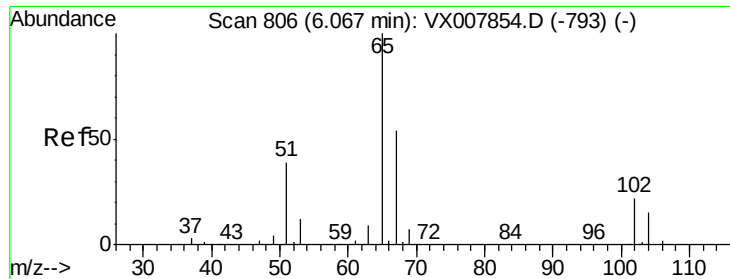
Tot Ion:	84	Resp:	790
Ion	Ratio	Lower	Upper
84	100		
49	106.5	99.3	148.9
51	31.9	31.3	46.9
86	53.9	52.6	79.0



#31
Cyclohexane
Concen: 0.948 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX008024.D
Acq: 12 Mar 2019 18:47

Tgt Ion:	56	Resp:	3893
Ion	Ratio	Lower	Upper
56	100		
69	182.2	24.0	36.0#
84	162.7	65.3	97.9#

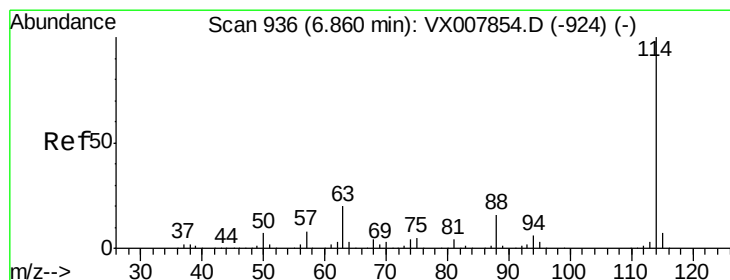
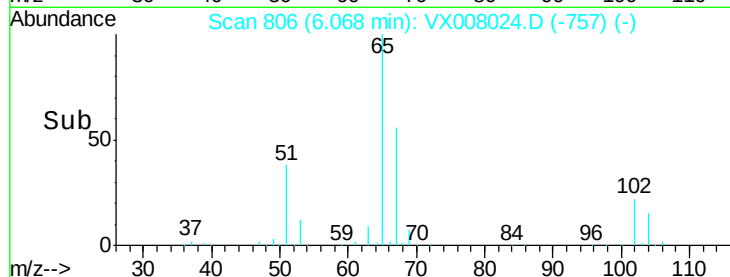
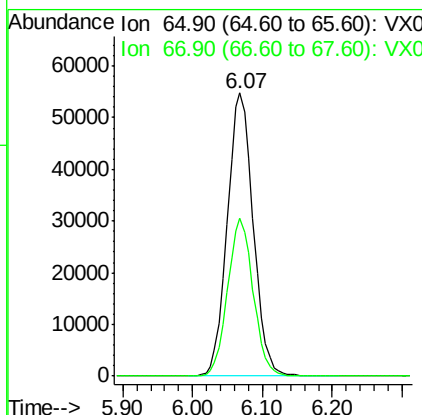
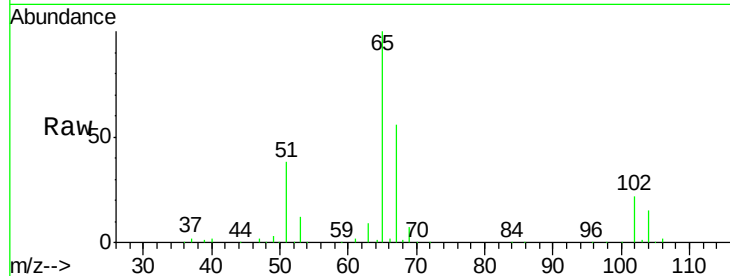




#33
 1,2-Dichloroethane-d4
 Concen: 52.722 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008024.D
 Acq: 12 Mar 2019 18:47

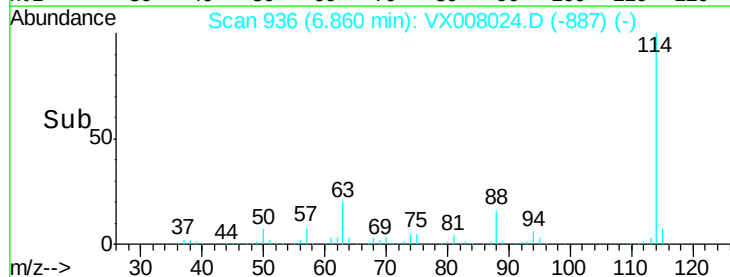
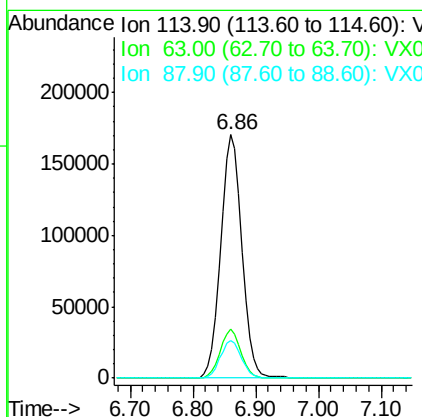
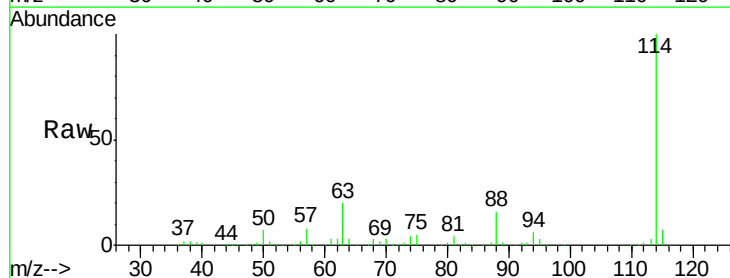
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-20190306

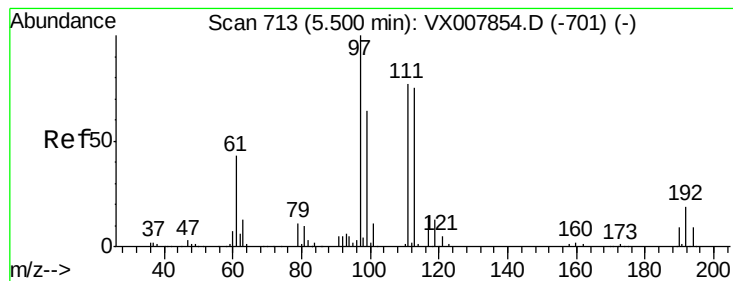
Tot Ion: 65 Resp: 140973
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008024.D
 Acq: 12 Mar 2019 18:47

Tgt Ion: 114 Resp: 398037
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.582 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-20190306

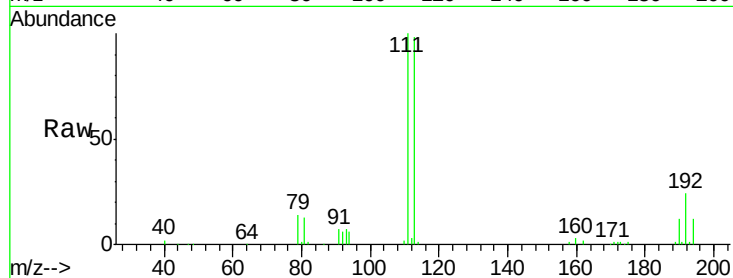
Tot Ion:113 Resp: 128787

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

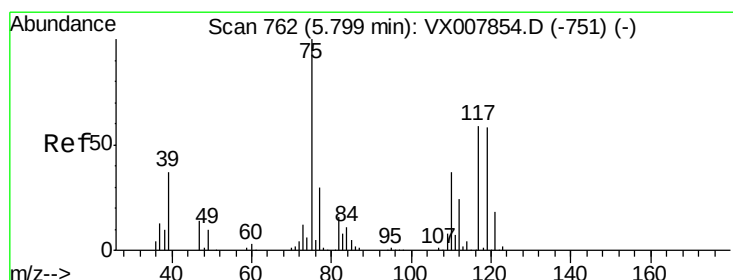
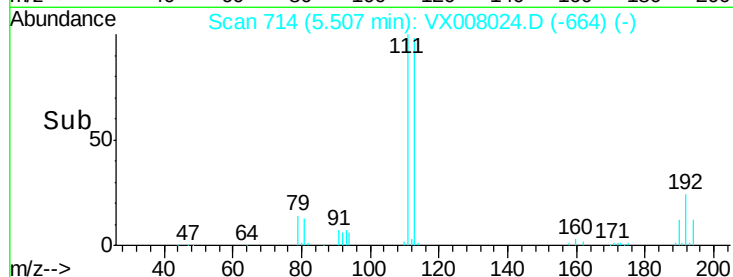
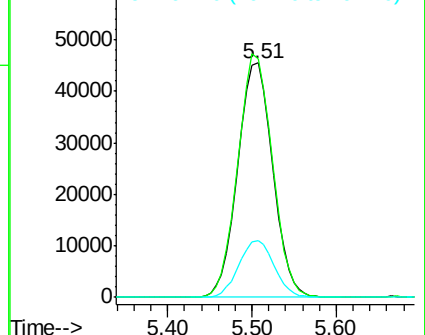
192 24.5 19.4 29.0



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: 4.346 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

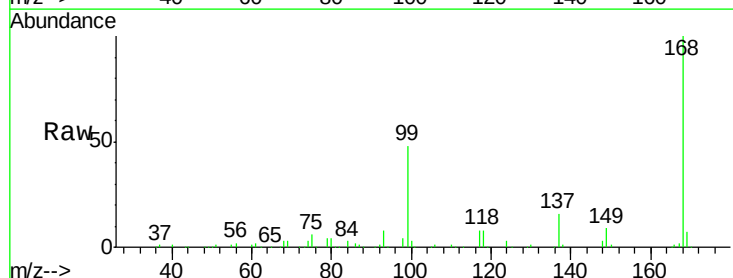
Tgt Ion: 75 Resp: 15665

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

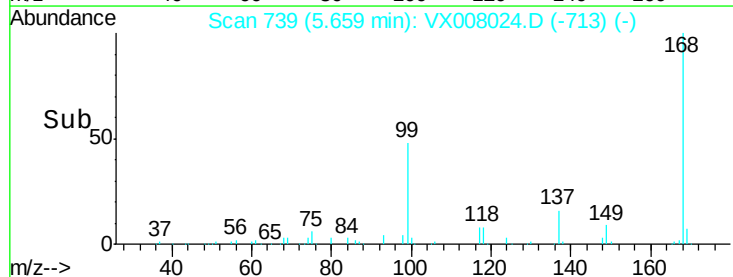
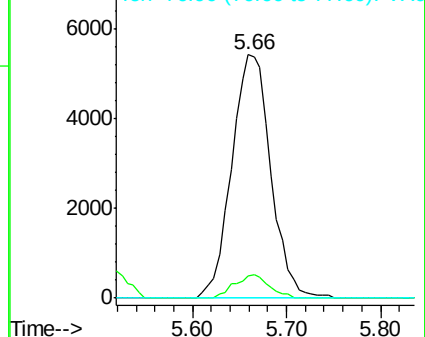
77 0.0 25.0 37.4#

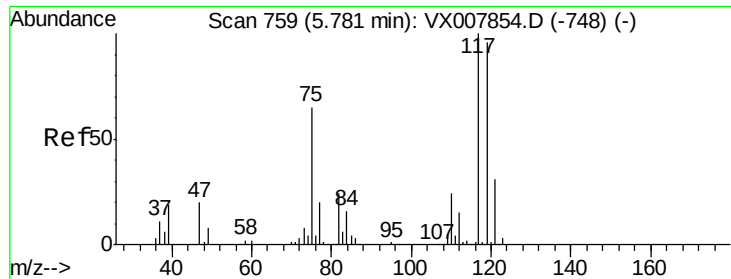


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.279 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-20190306

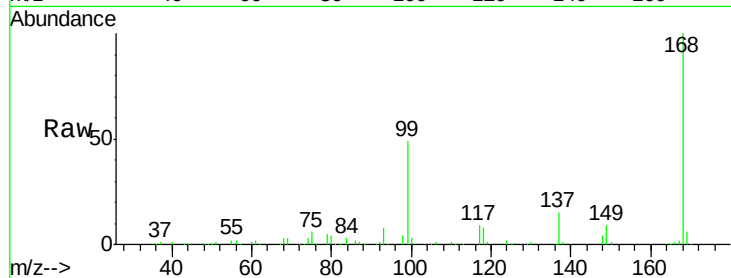
Tot Ion:117 Resp: 21483

Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

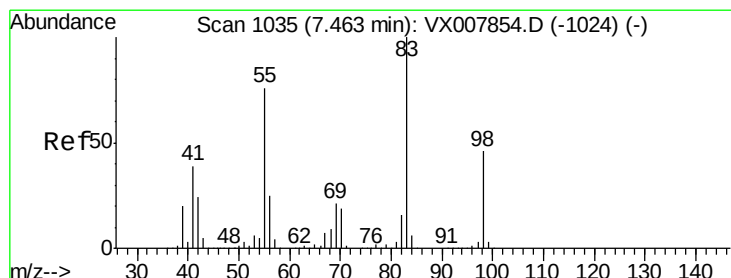
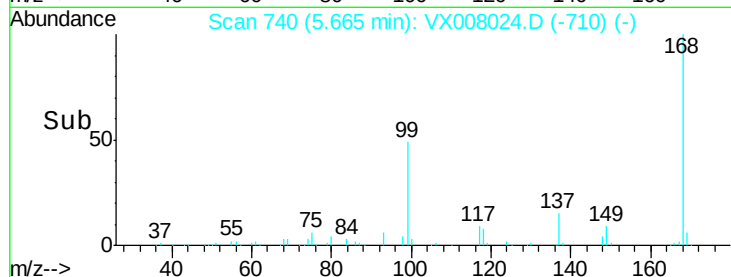
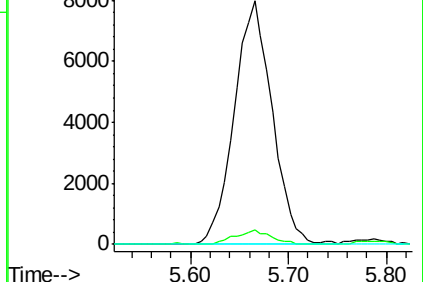
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.280 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.26 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

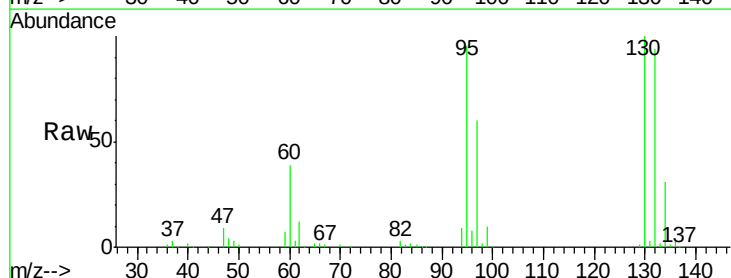
Tgt Ion: 83 Resp: 1223

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

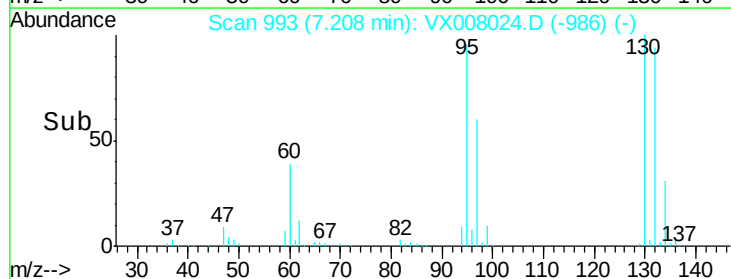
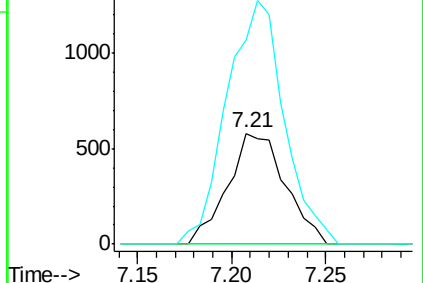
98 183.3 36.5 54.7#

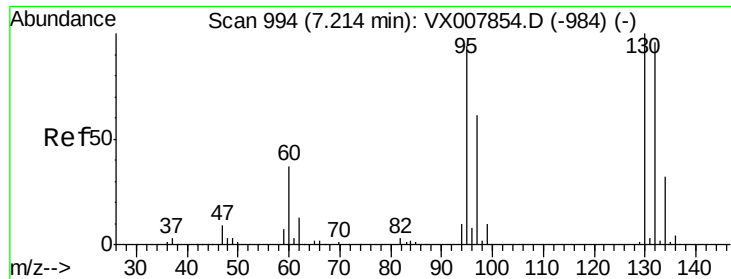


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

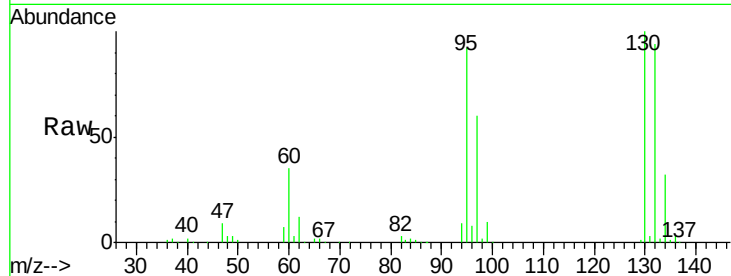




#44
 Trichloroethene
 Concen: 39.002 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX008024.D
 Acq: 12 Mar 2019 18:47

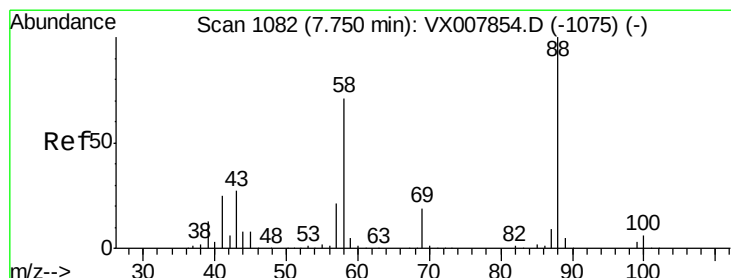
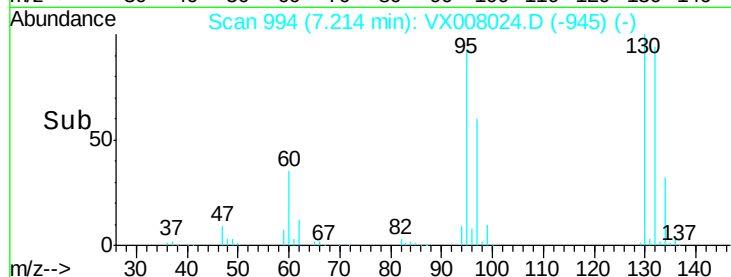
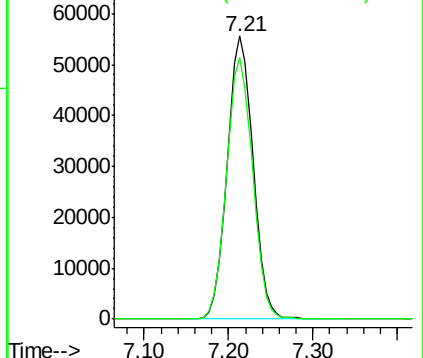
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D1-20190306

Tot Ion:130 Resp: 115326
 Ion Ratio Lower Upper
 130 100
 95 92.3 0.0 188.0



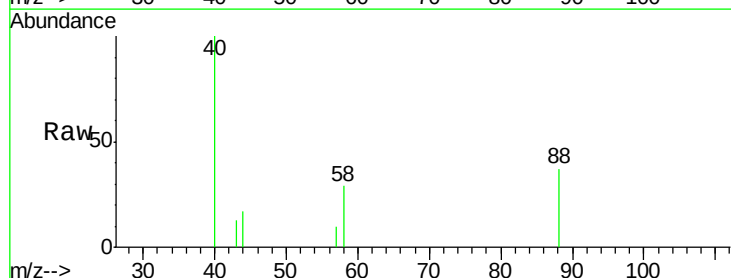
Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49
 1,4-Dioxane
 Concen: 11.205 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VX008024.D
 Acq: 12 Mar 2019 18:47

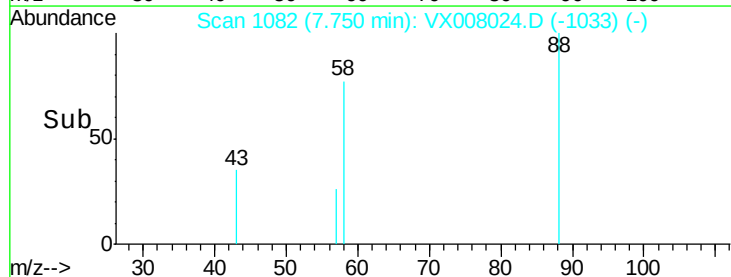
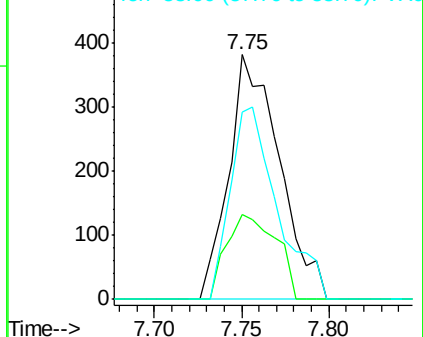
Tgt Ion: 88 Resp: 766
 Ion Ratio Lower Upper
 88 100
 43 33.9 25.1 37.7
 58 73.4 57.8 86.6

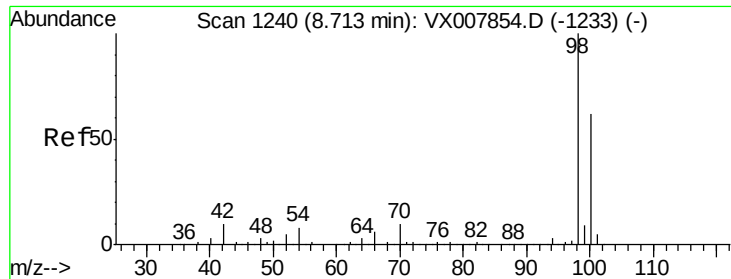


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.336 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

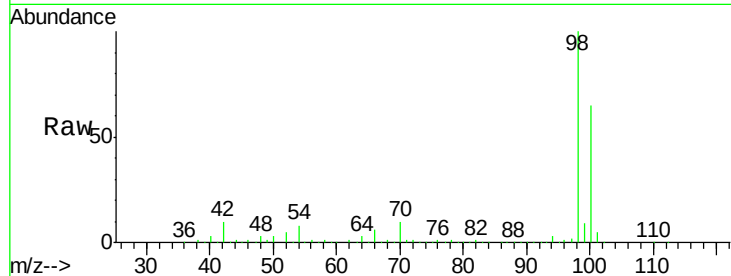
RE126D1-20190306

Tot Ion: 98 Resp: 489383

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

300000

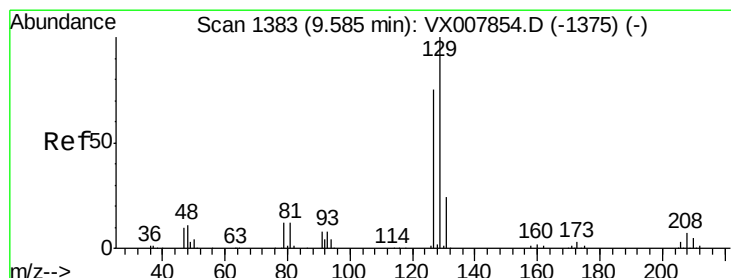
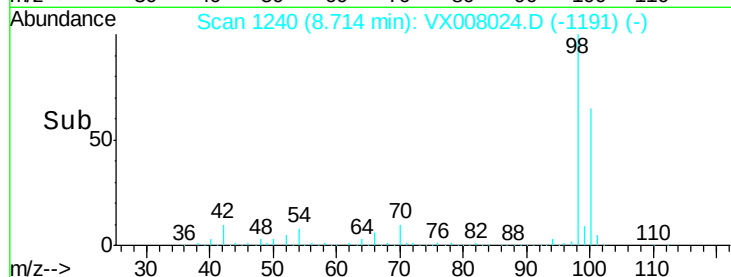
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#60

Dibromochloromethane

Concen: 1.104 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX008024.D

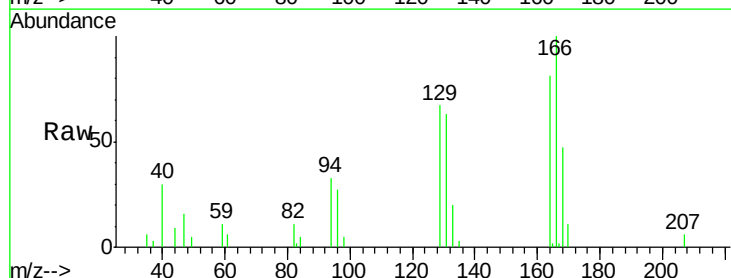
Acq: 12 Mar 2019 18:47

Tgt Ion: 129 Resp: 3061

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

2500

2000

1500

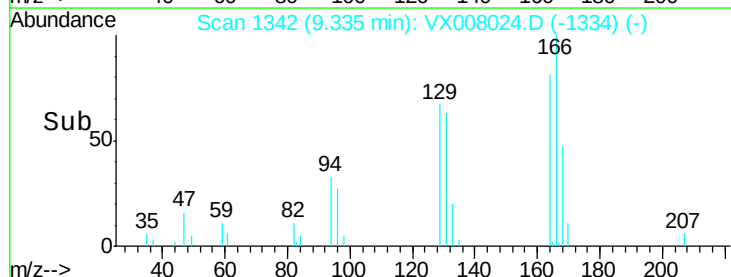
1000

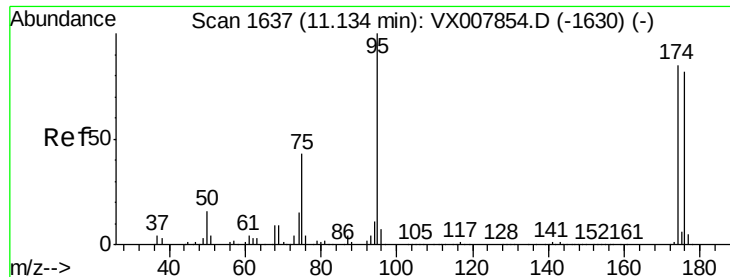
500

0

9.30 9.35 9.40

Time-->

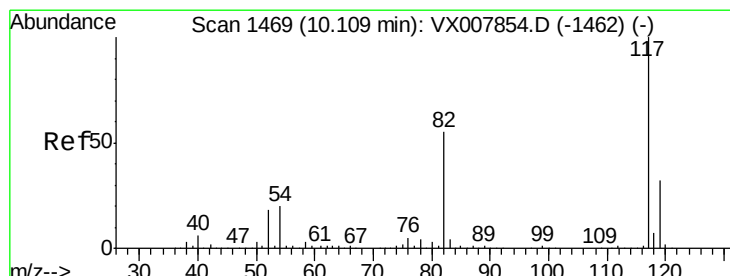
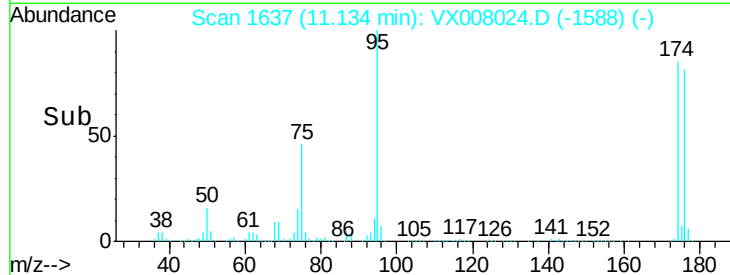
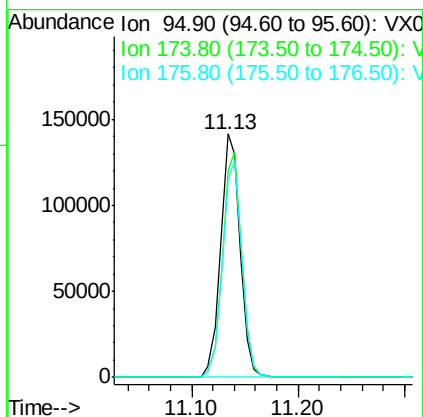
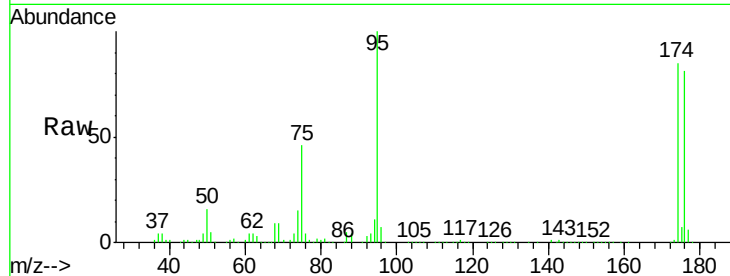




#62
4-Bromofluorobenzene
Concen: 54.928 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008024.D
Acq: 12 Mar 2019 18:47

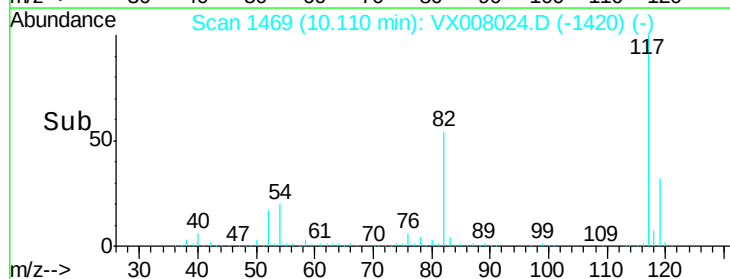
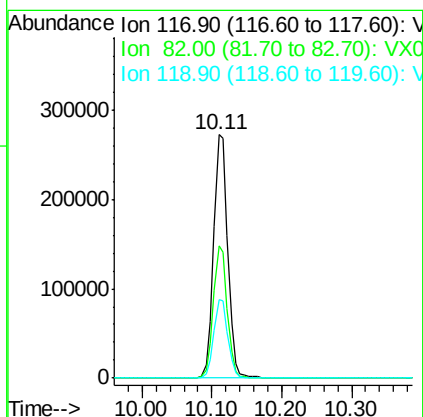
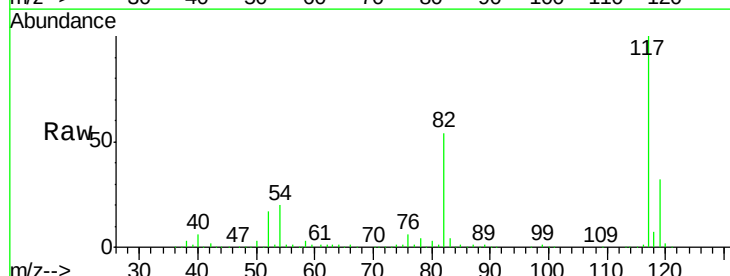
Instrument :
MSVOA_X
ClientSampleId :
RE126D1-20190306

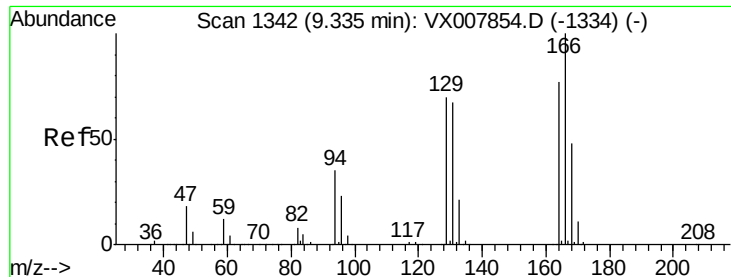
Tot Ion: 95 Resp: 180075
Ion Ratio Lower Upper
95 100
174 92.4 0.0 182.8
176 89.7 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008024.D
Acq: 12 Mar 2019 18:47

Tgt Ion: 117 Resp: 383436
Ion Ratio Lower Upper
117 100
82 54.5 44.3 66.5
119 32.2 25.3 37.9





#64

Tetrachloroethene

Concen: 1.153 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

RE126D1-20190306

Tot Ion:164 Resp: 3664

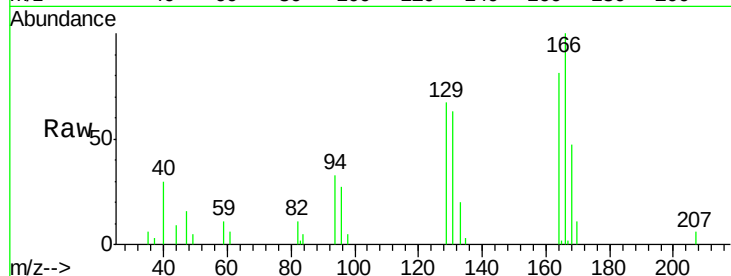
Ion Ratio Lower Upper

164 100

166 122.8 103.4 155.0

129 82.2 72.2 108.4

131 77.3 69.4 104.2

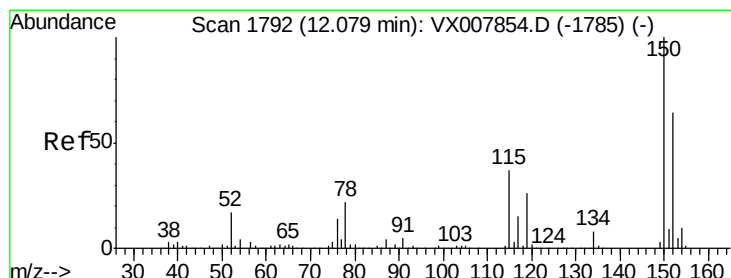
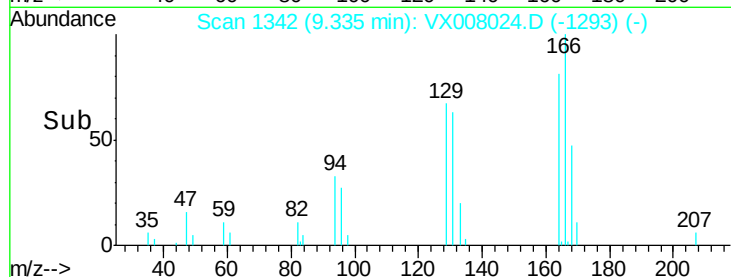
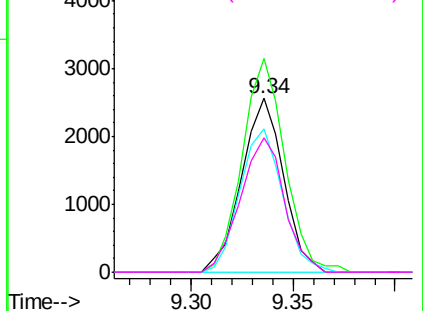


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

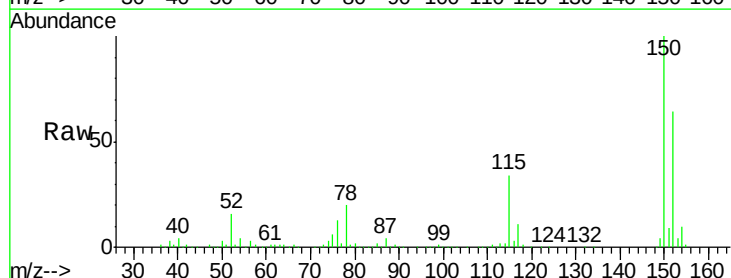
Tgt Ion:152 Resp: 185236

Ion Ratio Lower Upper

152 100

115 54.5 38.6 115.7

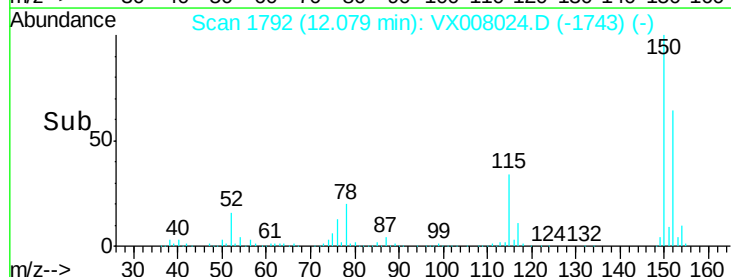
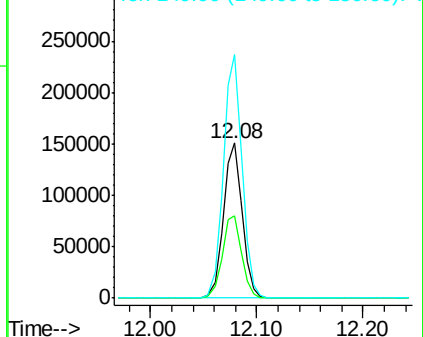
150 156.7 0.0 348.4

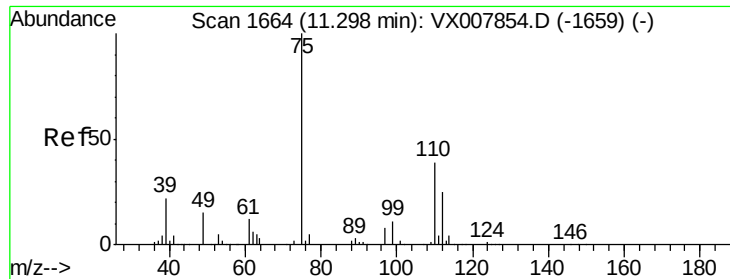


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.027 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

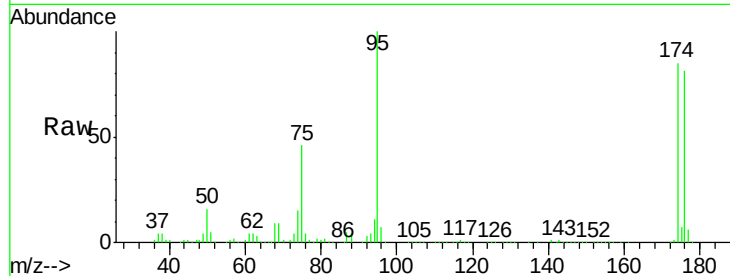
RE126D1-20190306

Tot Ion: 75 Resp: 81733

Ion Ratio Lower Upper

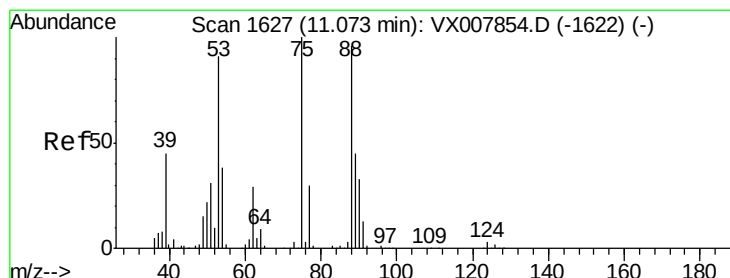
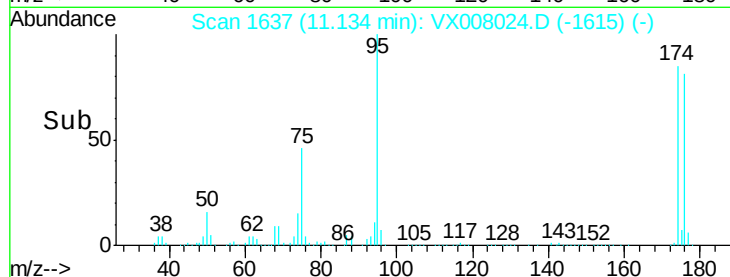
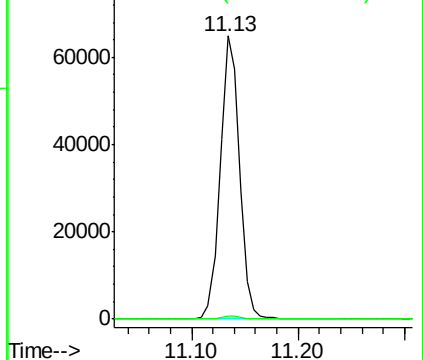
75 100

77 1.3 18.9 56.7#



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: 67.213 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008024.D

Acq: 12 Mar 2019 18:47

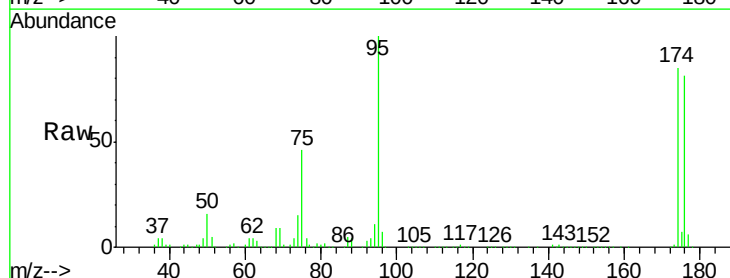
Tgt Ion: 75 Resp: 81733

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

