

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060819\
 Data File : VX010160.D
 Acq On : 08 Jun 2019 23:43
 Operator : JC/SP
 Sample : K3257-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20190606

Quant Time: Jun 10 08:05:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	286221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	434059	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	395716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	184735	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	129603	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
35) Dibromofluoromethane	5.50	113	132536	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	8.71	98	515527	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
62) 4-Bromofluorobenzene	11.13	95	176519	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

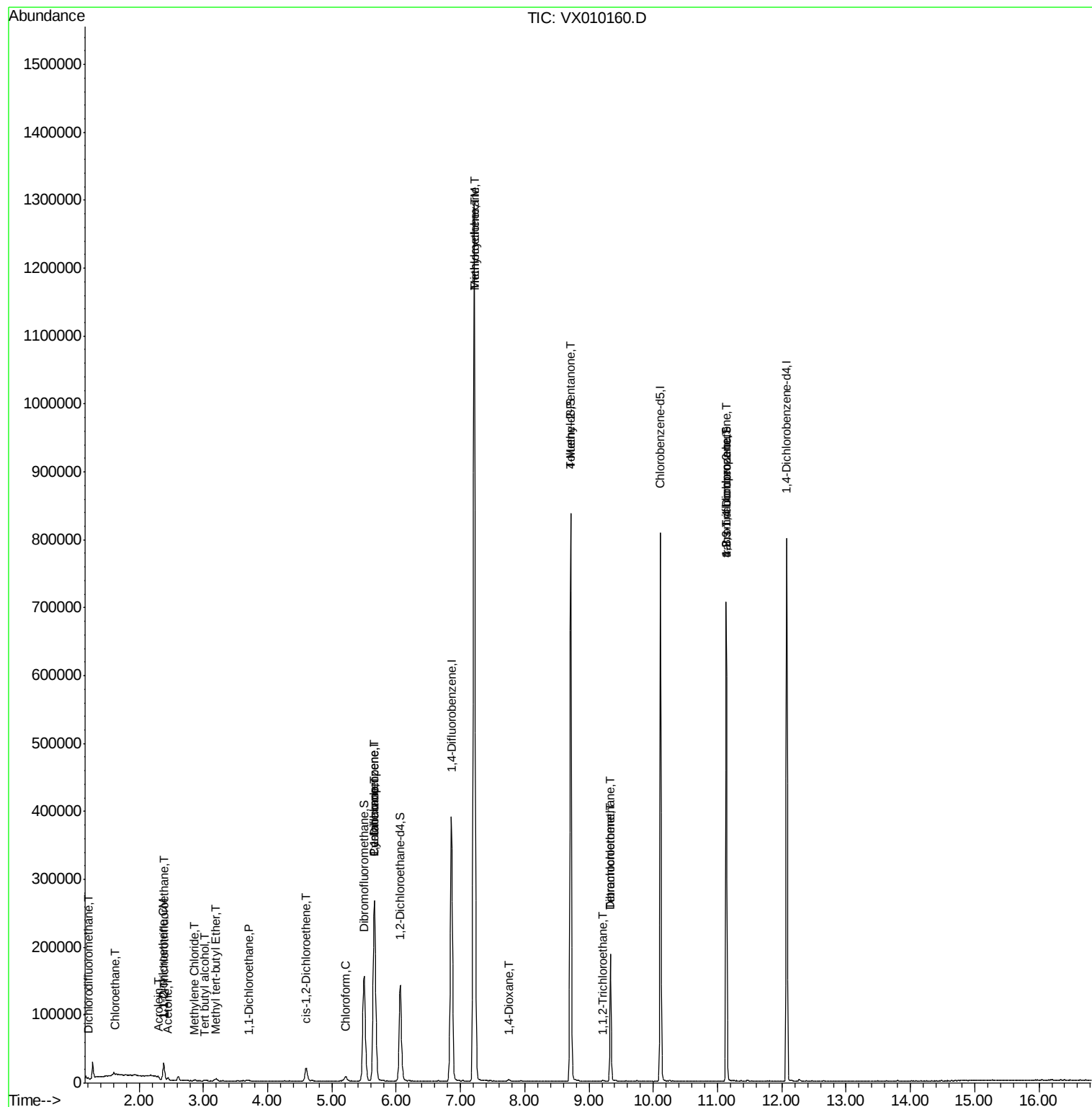
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	561	0.213	ug/l	96
6) Chloroethane	1.63	64	1092	0.881	ug/l #	60
9) 1,1,2-Trichlorotrifluoroet	2.39	101	8250	3.278	ug/l	92
11) Tert butyl alcohol	3.03	59	839	1.226	ug/l #	64
12) 1,1-Dichloroethene	2.37	96	1962	0.763	ug/l #	85
13) Acrolein	2.30	56	144	1.154	ug/l #	1
16) Acetone	2.45	43	2953	2.247	ug/l #	83
19) Methyl tert-butyl Ether	3.20	73	3846	0.466	ug/l	96
20) Methylene Chloride	2.86	84	672	0.233	ug/l #	82
24) 1,1-Dichloroethane	3.70	63	1852	0.411	ug/l #	76
27) cis-1,2-Dichloroethene	4.60	96	13921	4.398	ug/l	68
30) Chloroform	5.21	83	8008	1.712	ug/l	93
31) Cyclohexane	5.66	56	4166	1.025	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17111	4.832	ug/l #	43
39) Methylcyclohexane	7.21	83	5697	1.181	ug/l #	1
44) Trichloroethene	7.21	130	529442	160.402	ug/l	88
49) 1,4-Dioxane	7.75	88	2306	28.073	ug/l #	80
51) 4-Methyl-2-Pentanone	8.71	43	1871	0.508	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	610	0.207	ug/l	91
60) Dibromochloromethane	9.34	129	34286	9.833	ug/l #	11
64) Tetrachloroethene	9.34	164	38726	13.176	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	80786	21.863	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80786	48.305	ug/l #	10

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

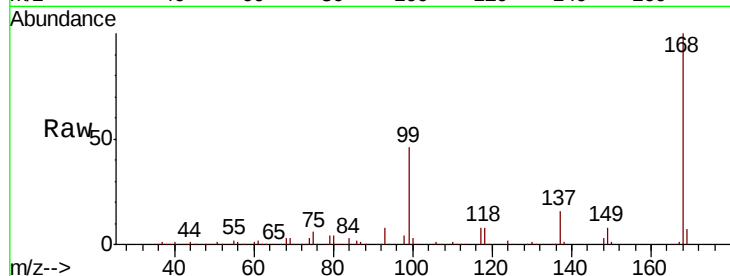
RE131D1-20190606

Tgt Ion:168 Resp: 286221

Ion Ratio Lower Upper

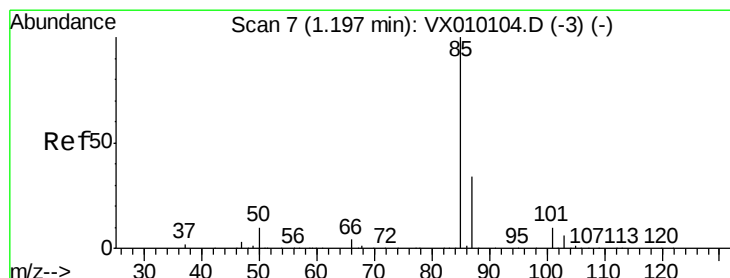
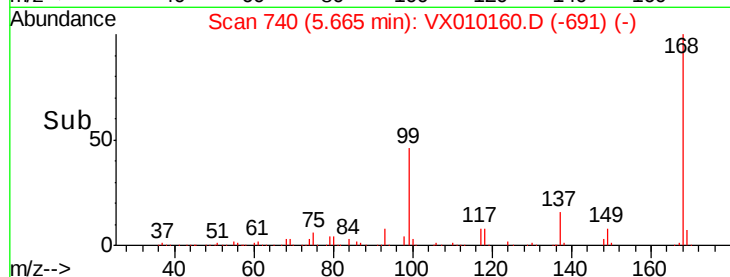
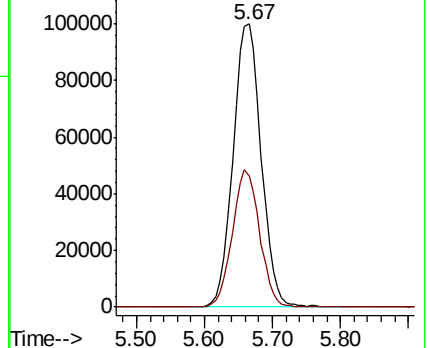
168 100

99 46.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.213 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010160.D

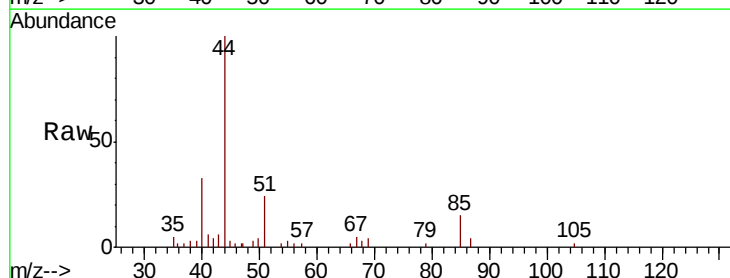
Acq: 08 Jun 2019 23:43

Tgt Ion: 85 Resp: 561

Ion Ratio Lower Upper

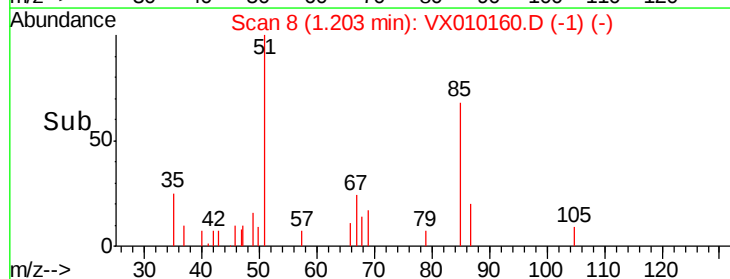
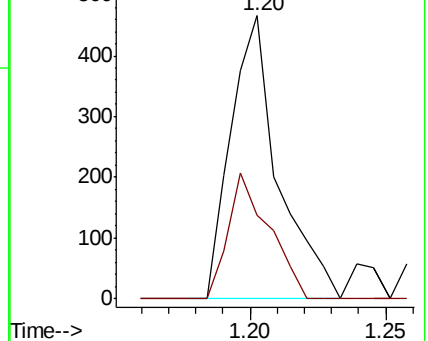
85 100

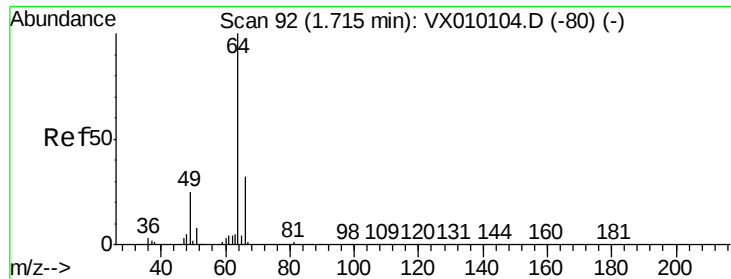
87 29.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#6

Chloroethane

Concen: 0.881 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.08 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

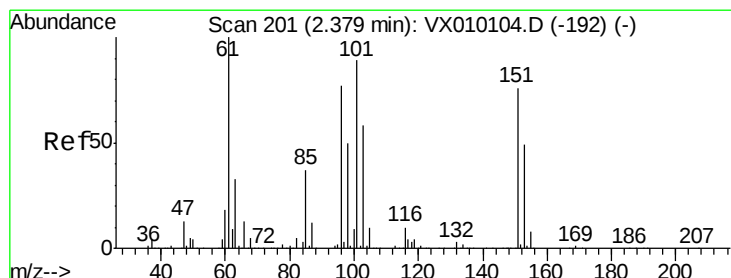
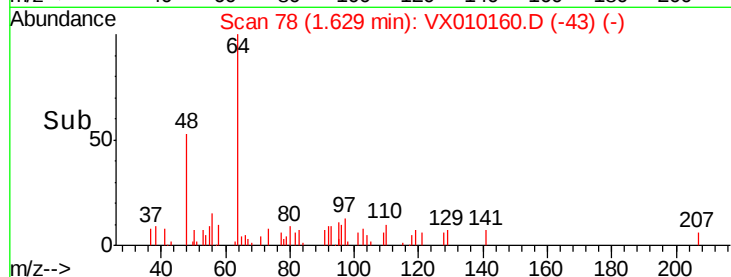
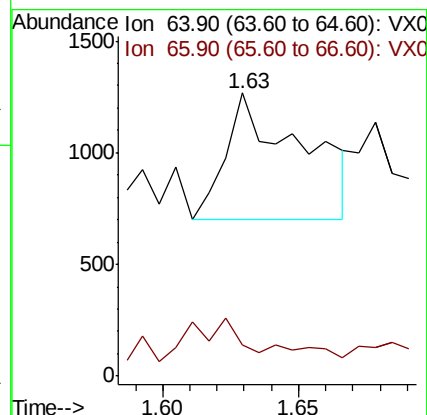
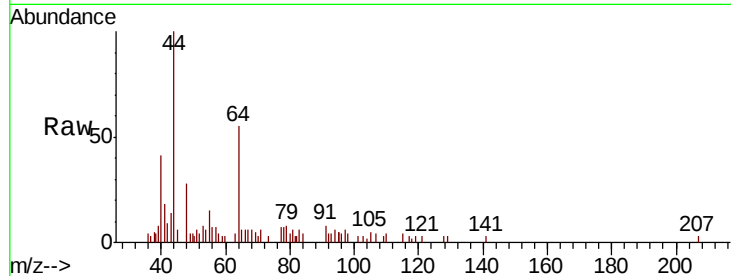
RE131D1-20190606

Tgt Ion: 64 Resp: 1092

Ion Ratio Lower Upper

64 100

66 9.4 25.1 37.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.278 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

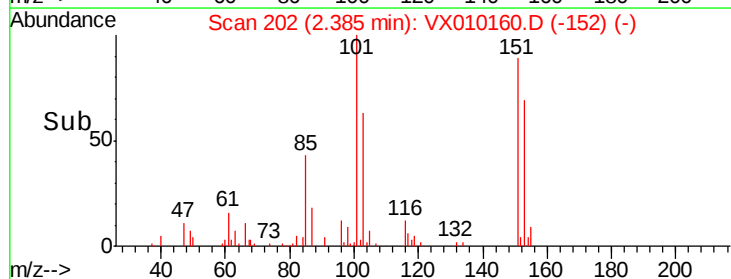
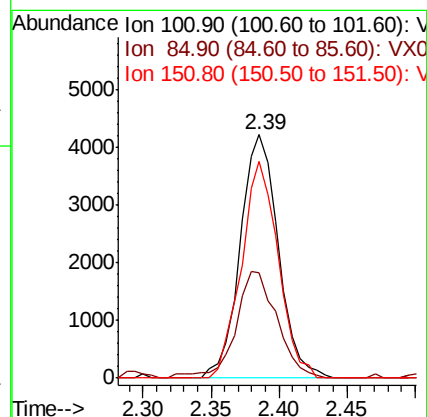
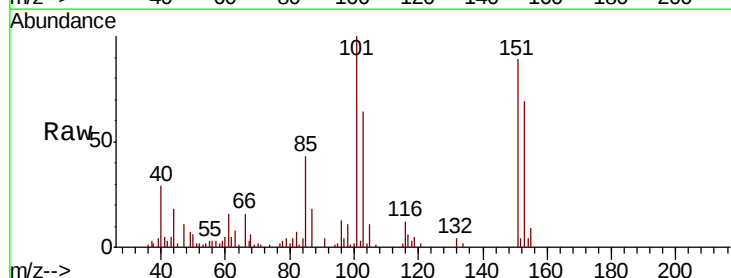
Tgt Ion: 101 Resp: 8250

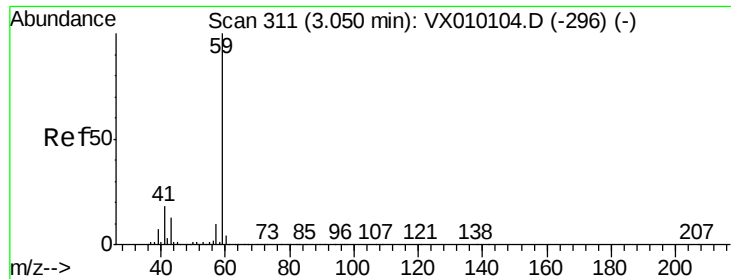
Ion Ratio Lower Upper

101 100

85 47.6 35.2 52.8

151 86.0 61.9 92.9

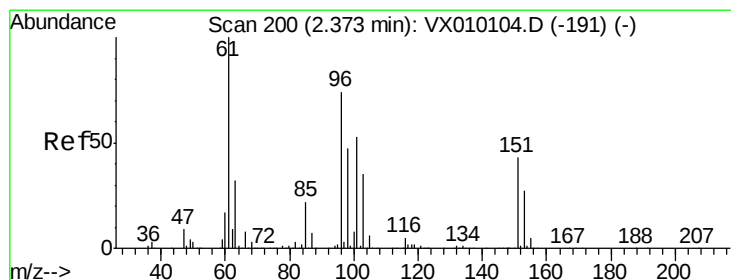
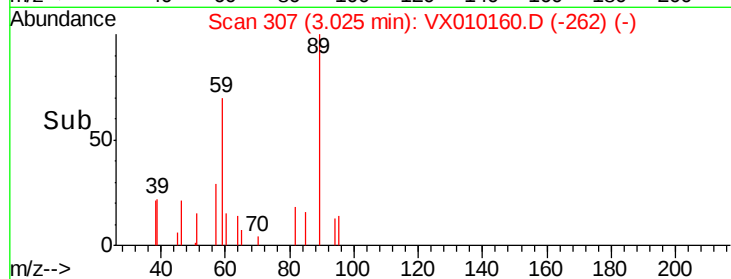
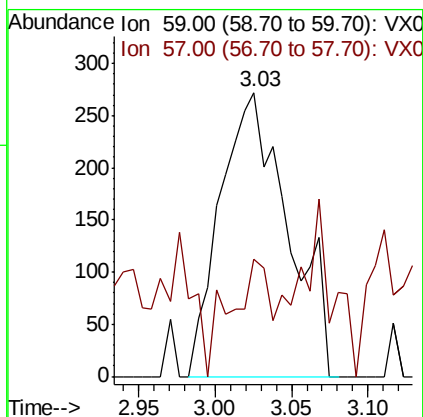
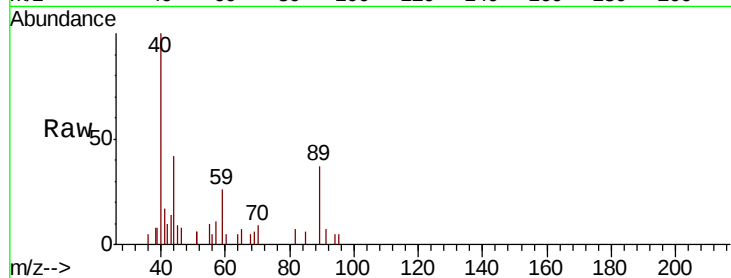




#11
Tert butyl alcohol
Concen: 1.226 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

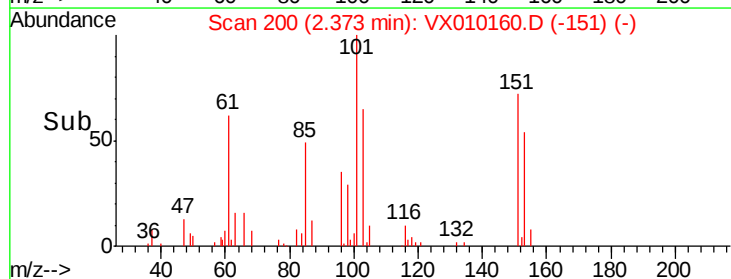
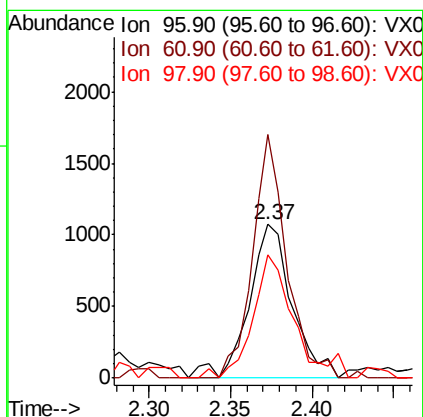
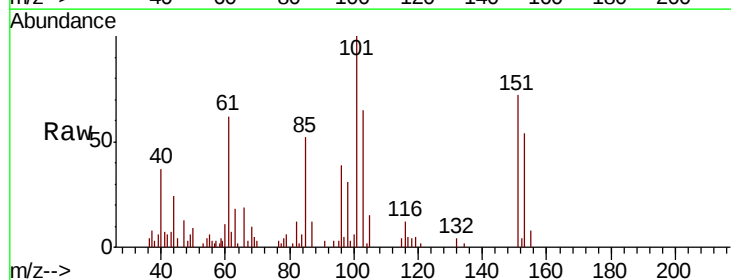
Instrument :
MSVOA_X
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RE131D1-20190606

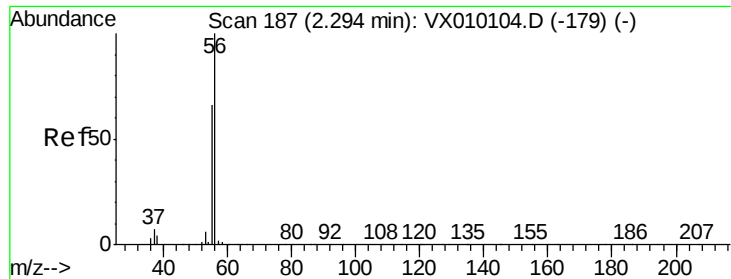
Tgt Ion: 59 Resp: 839
Ion Ratio Lower Upper
59 100
57 23.6 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.763 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

Tgt Ion: 96 Resp: 1962
Ion Ratio Lower Upper
96 100
61 158.7 140.7 211.1
98 80.3 50.1 75.1#





#13

Acrolein

Concen: 1.154 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

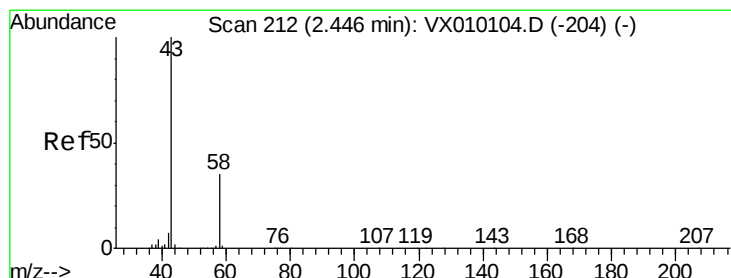
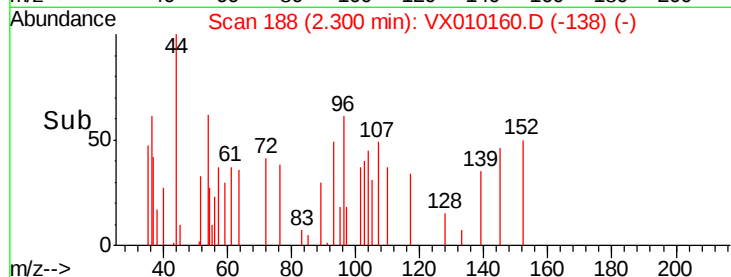
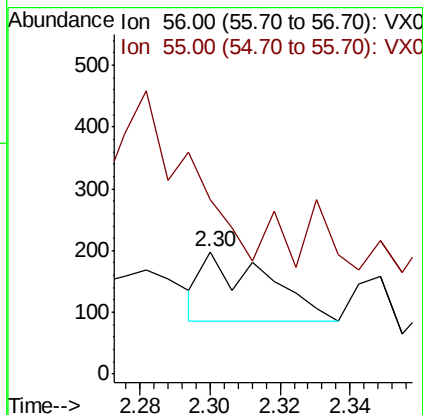
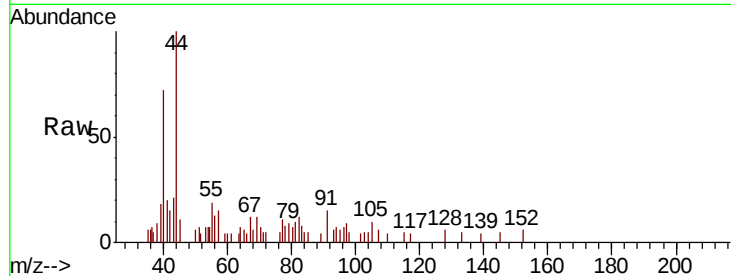
RE131D1-20190606

Tgt Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 238.9 57.0 85.4#



#16

Acetone

Concen: 2.247 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010160.D

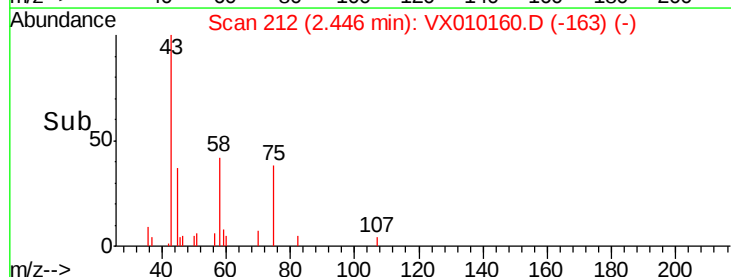
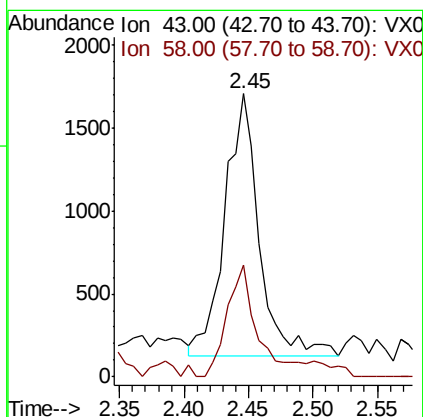
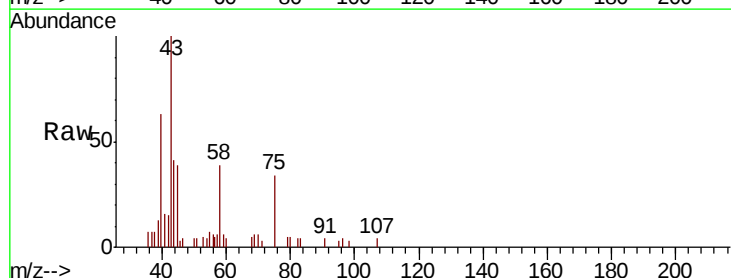
Acq: 08 Jun 2019 23:43

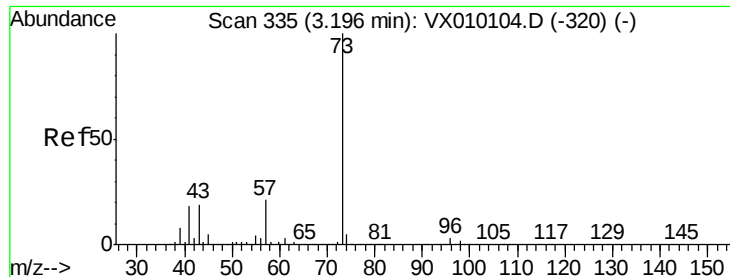
Tgt Ion: 43 Resp: 2953

Ion Ratio Lower Upper

43 100

58 38.3 23.2 34.8#

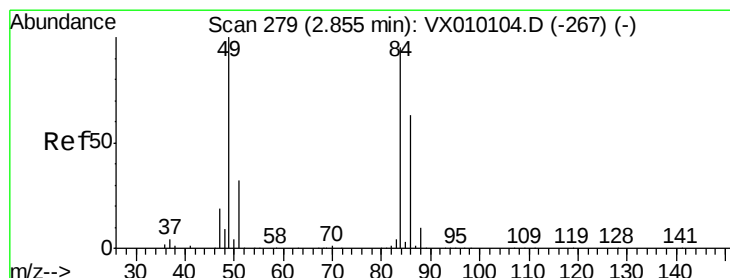
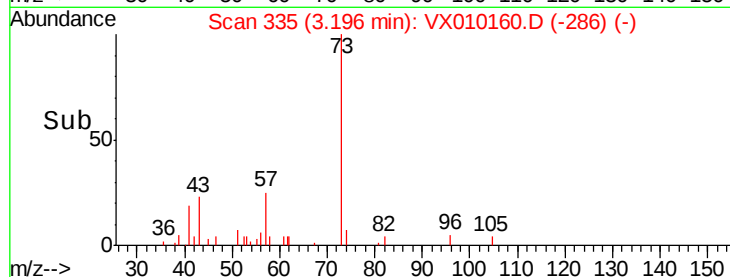
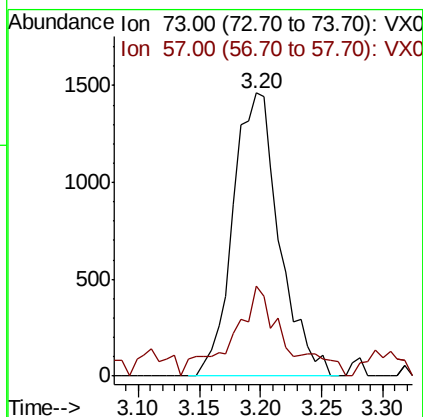
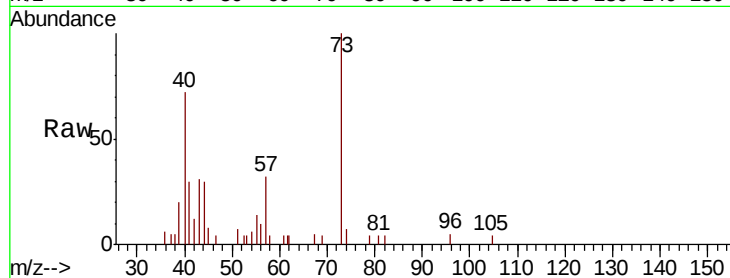




#19
Methyl tert-butyl Ether
Concen: 0.466 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

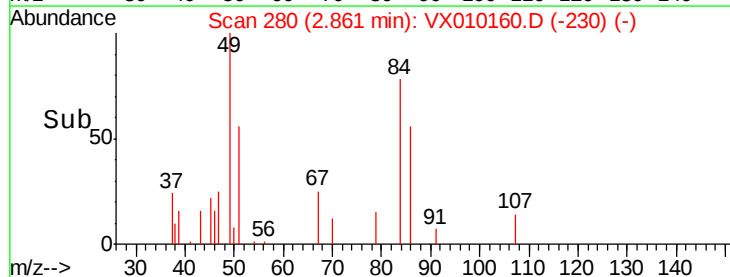
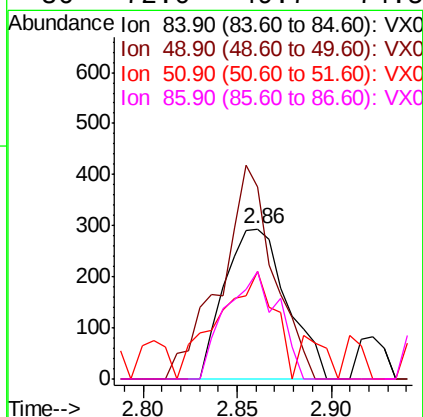
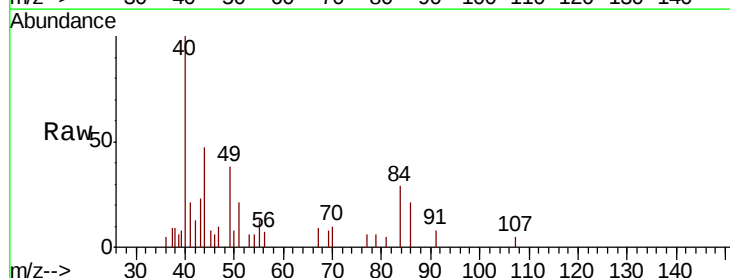
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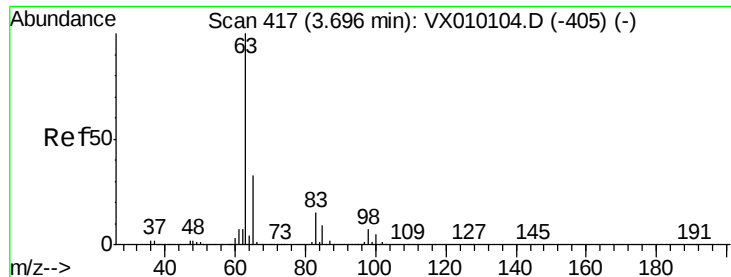
Tgt Ion: 73 Resp: 3846
Ion Ratio Lower Upper
73 100
57 26.3 19.4 29.2



#20
Methylene Chloride
Concen: 0.233 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

Tgt Ion: 84 Resp: 672
Ion Ratio Lower Upper
84 100
49 128.3 115.8 173.6
51 71.3 34.4 51.6#
86 72.0 49.7 74.5





#24

1,1-Dichloroethane

Concen: 0.411 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190606

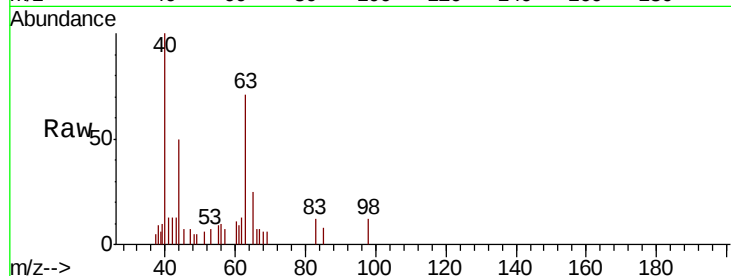
Tgt Ion: 63 Resp: 1852

Ion Ratio Lower Upper

63 100

98 16.7 2.9 8.8#

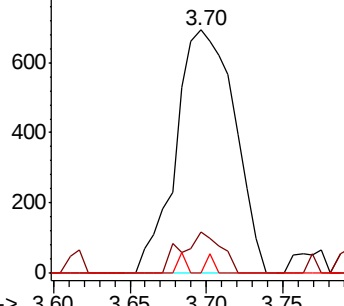
100 0.0 1.8 5.4#



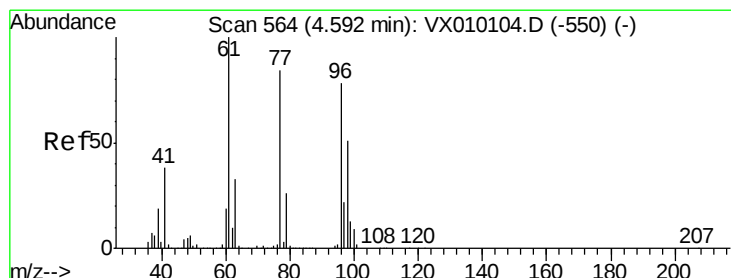
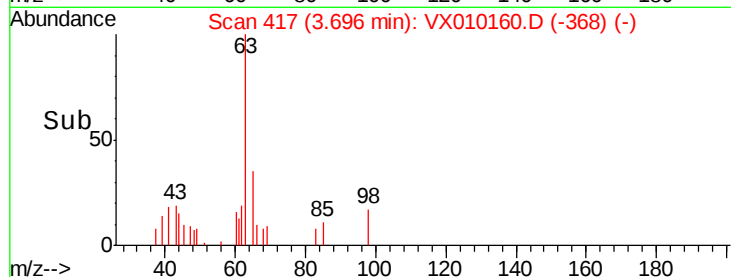
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time--> 3.60 3.65 3.70 3.75



#27

cis-1,2-Dichloroethene

Concen: 4.398 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

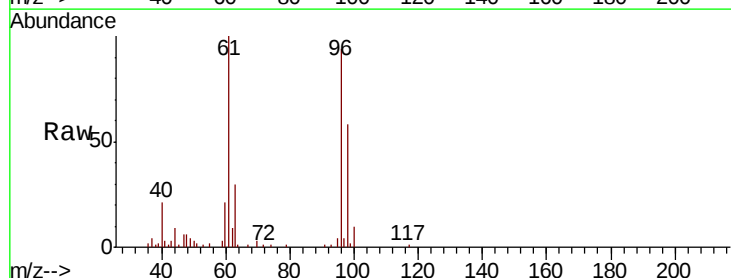
Tgt Ion: 96 Resp: 13921

Ion Ratio Lower Upper

96 100

61 108.4 0.0 334.0

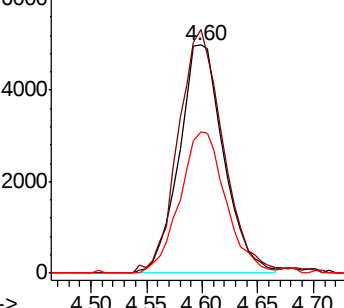
98 63.4 0.0 131.6



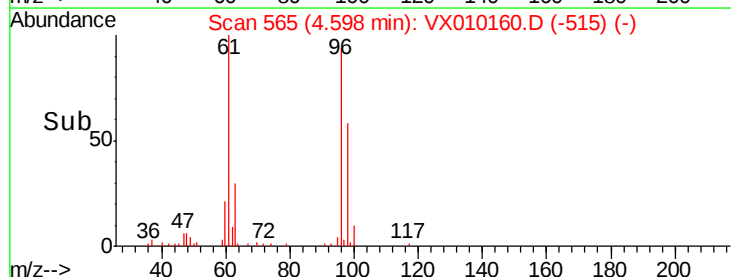
Abundance Ion 95.90 (95.60 to 96.60): VX0

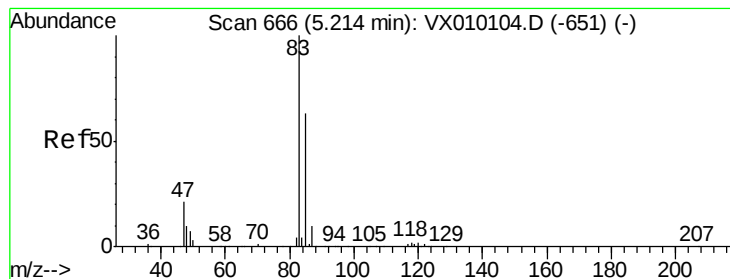
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time--> 4.50 4.55 4.60 4.65 4.70





#30

Chloroform

Concen: 1.712 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

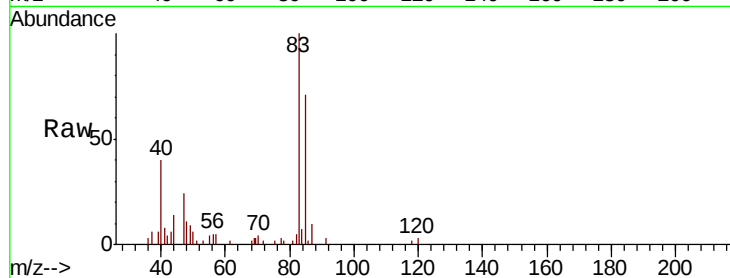
RE131D1-20190606

Tgt Ion: 83 Resp: 8008

Ion Ratio Lower Upper

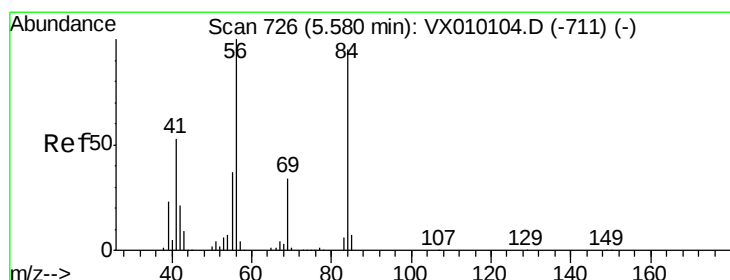
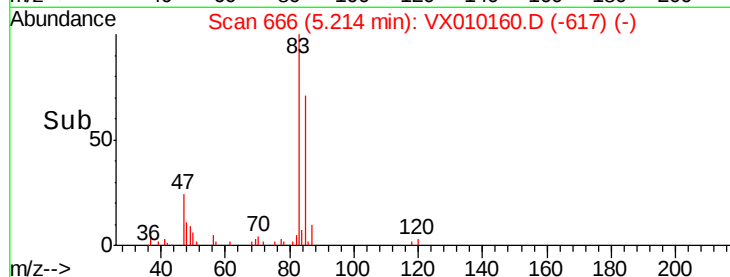
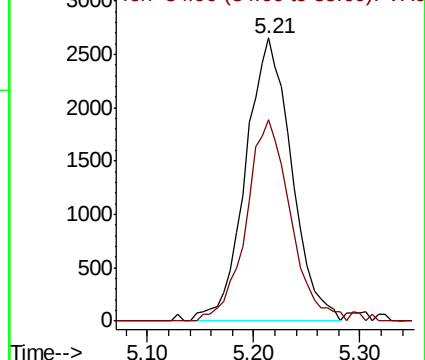
83 100

85 71.0 52.6 78.8



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#31

Cyclohexane

Concen: 1.025 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

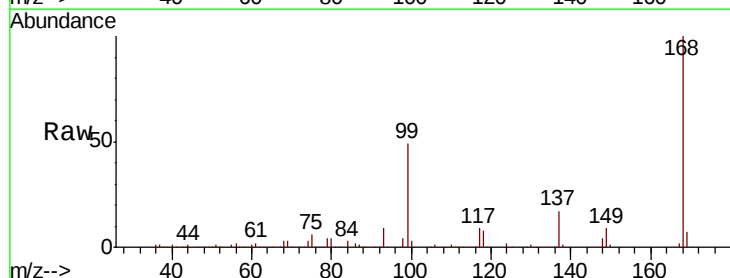
Tgt Ion: 56 Resp: 4166

Ion Ratio Lower Upper

56 100

69 183.6 21.6 32.4#

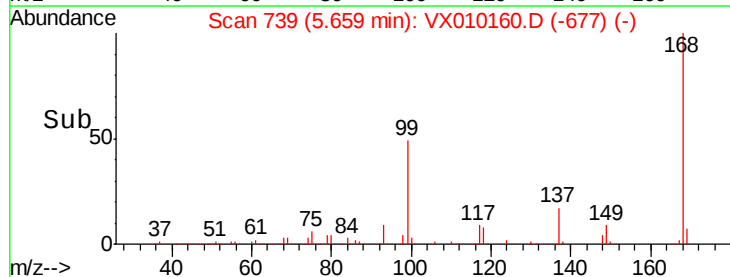
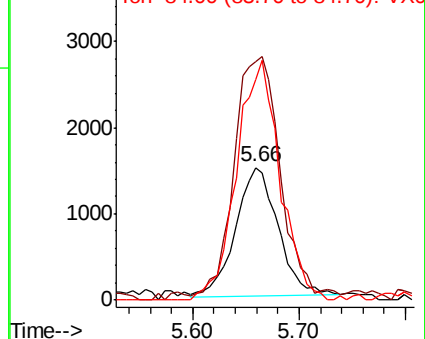
84 172.9 56.8 85.2#

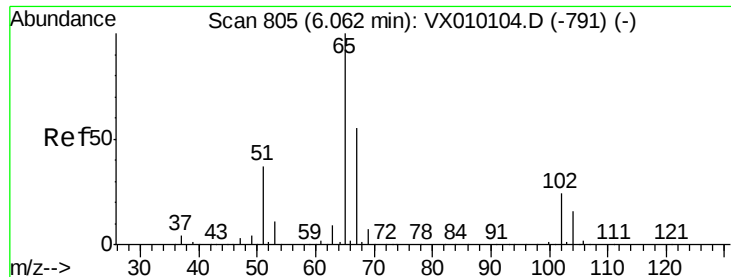


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

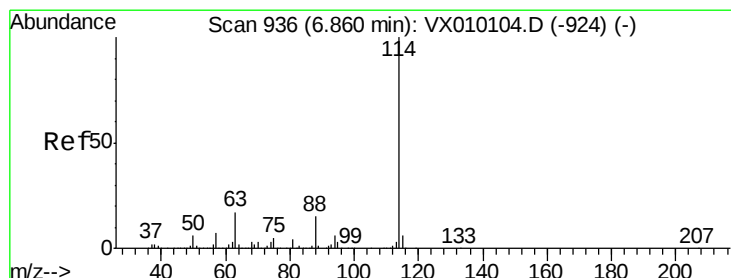
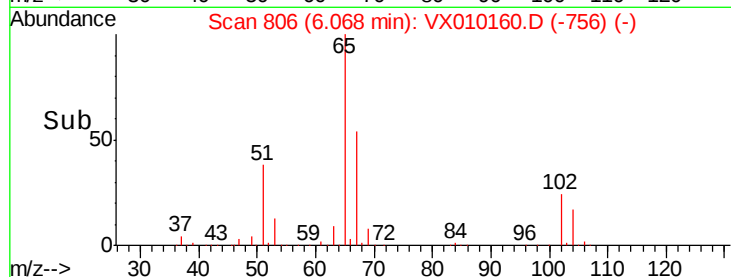
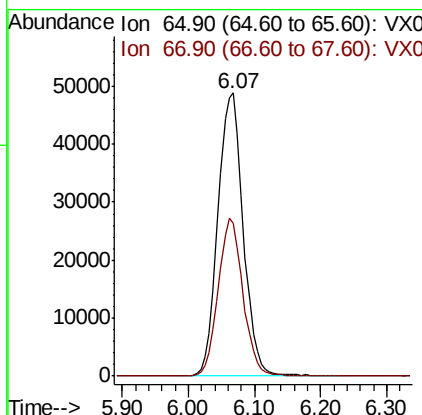
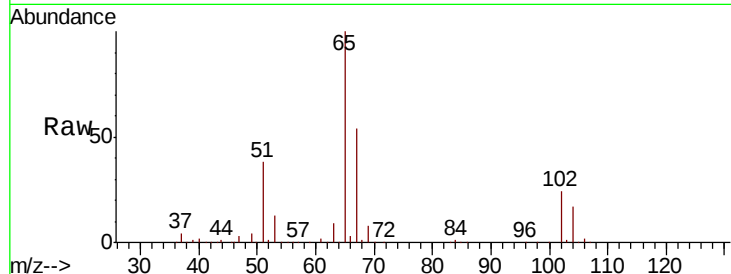




#33
 1,2-Dichloroethane-d4
 Concen: 46.389 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX010160.D
 Acq: 08 Jun 2019 23:43

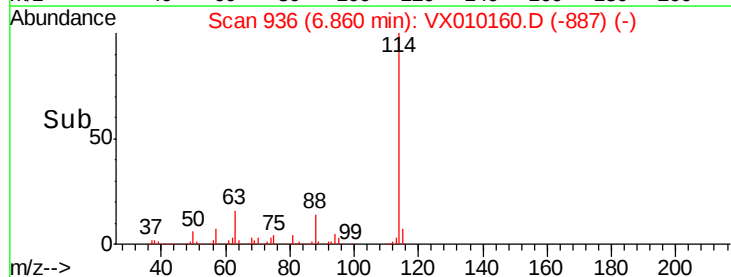
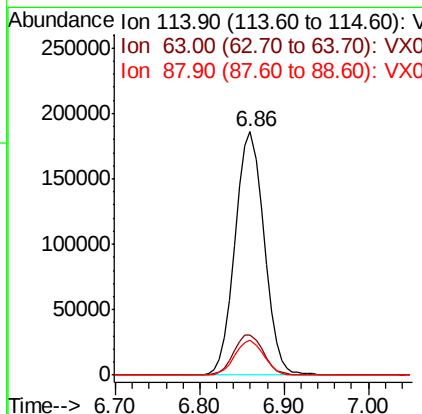
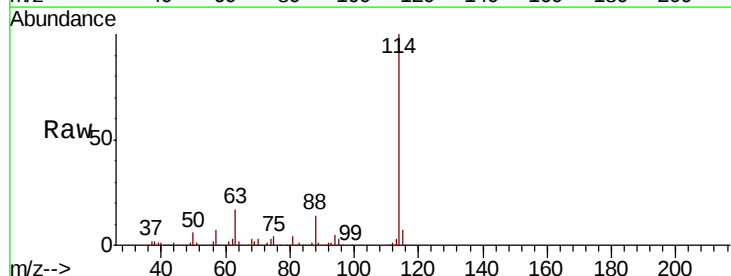
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20190606

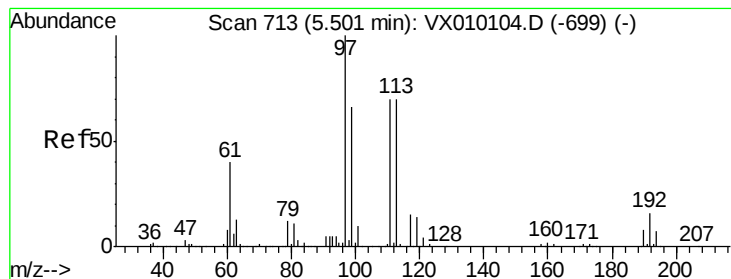
Tgt Ion: 65 Resp: 129603
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010160.D
 Acq: 08 Jun 2019 23:43

Tgt Ion: 114 Resp: 434059
 Ion Ratio Lower Upper
 114 100
 63 16.5 0.0 47.4
 88 14.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.502 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190606

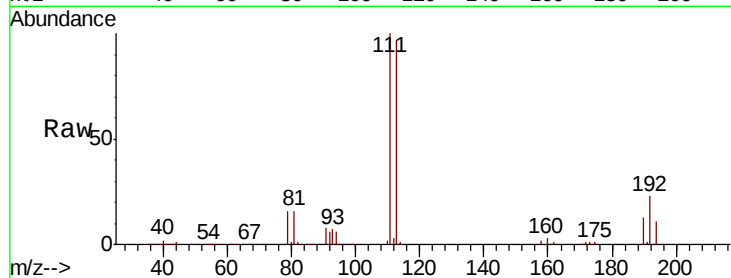
Tgt Ion:113 Resp: 132536

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

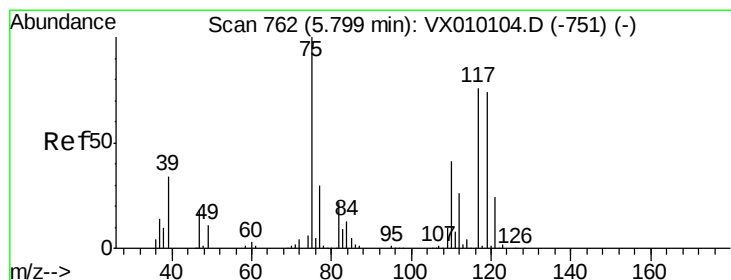
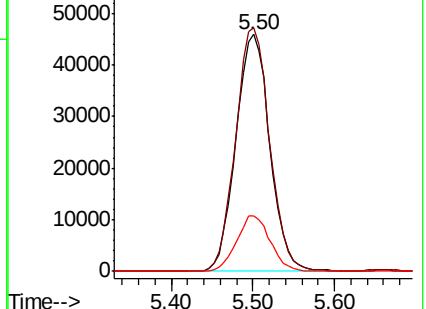
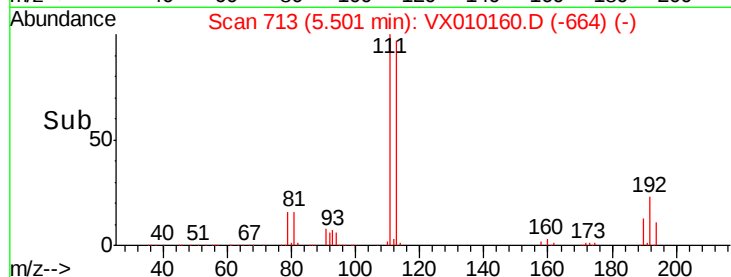
192 23.4 17.1 25.7



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: 4.832 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

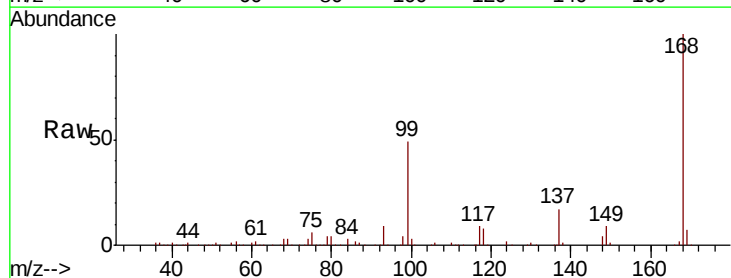
Tgt Ion: 75 Resp: 17111

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

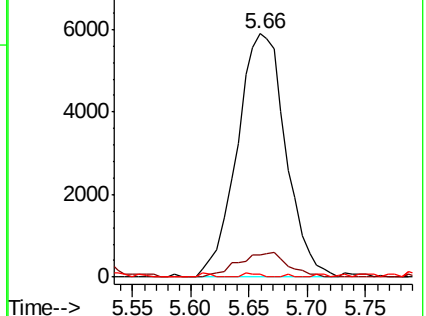
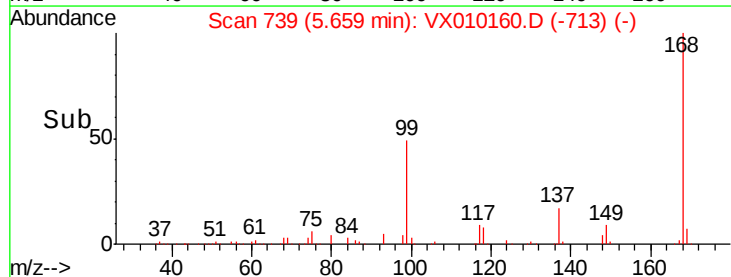
77 0.5 25.0 37.4#

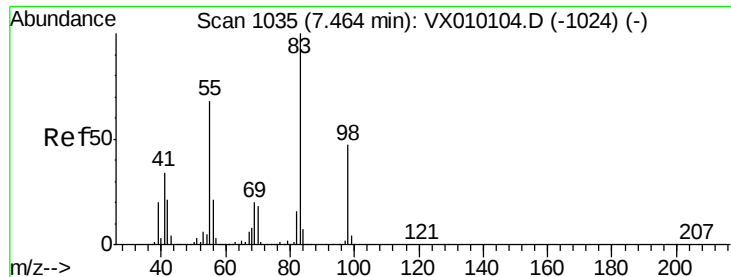


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

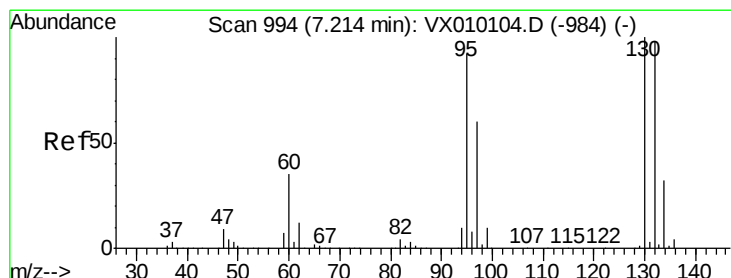
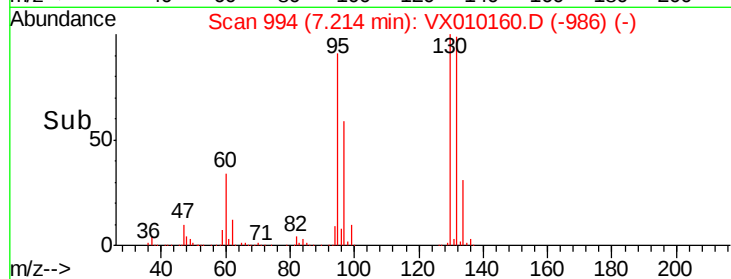
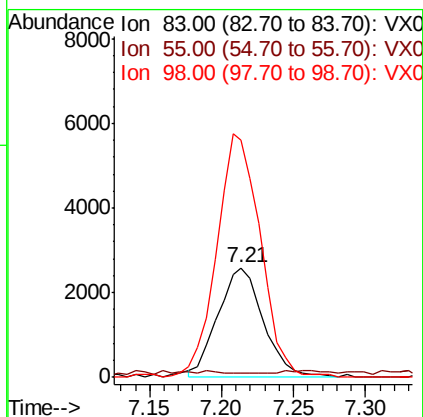
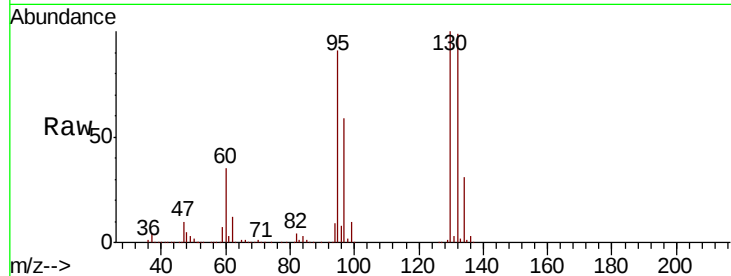




#39
Methylcyclohexane
Concen: 1.181 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.25 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

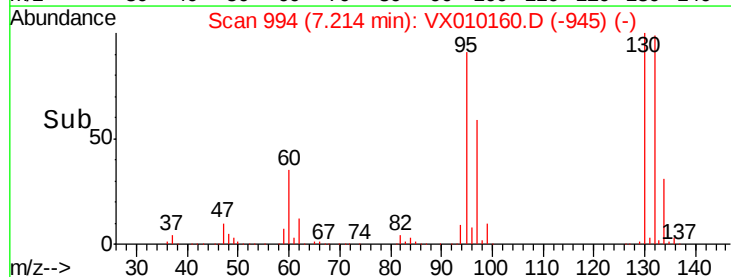
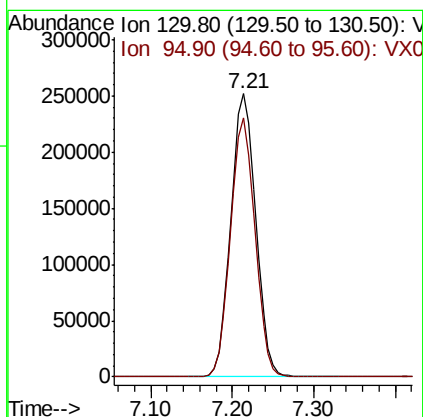
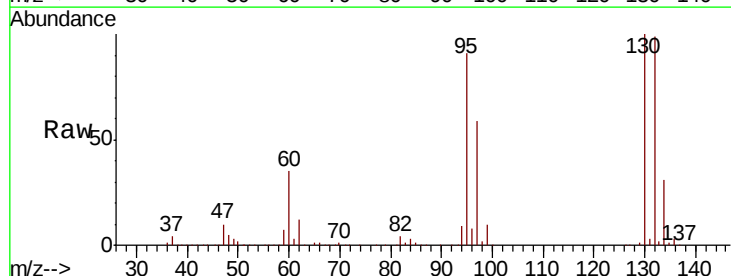
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20190606

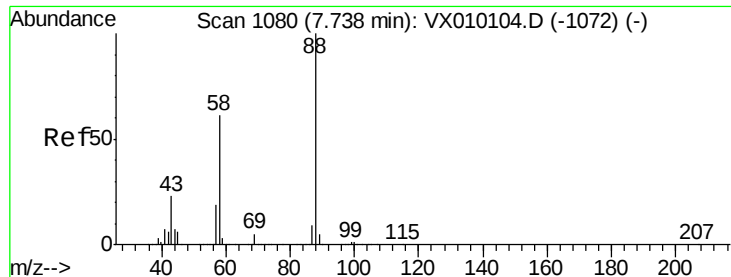
Tgt Ion: 83 Resp: 5697
Ion Ratio Lower Upper
83 100
55 0.0 69.9 104.9#
98 216.2 35.1 52.7#



#44
Trichloroethene
Concen: 160.402 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

Tgt Ion: 130 Resp: 529442
Ion Ratio Lower Upper
130 100
95 91.3 0.0 207.4





#49

1,4-Dioxane

Concen: 28.073 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190606

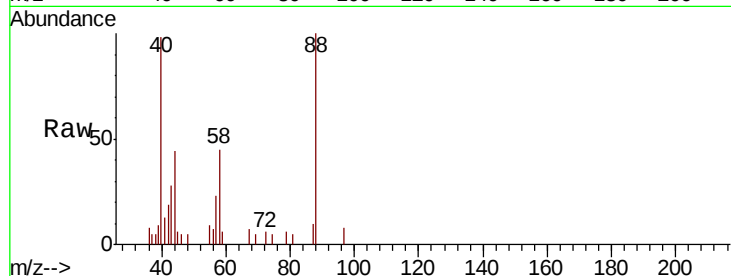
Tgt Ion: 88 Resp: 2306

Ion Ratio Lower Upper

88 100

43 24.0 30.2 45.4#

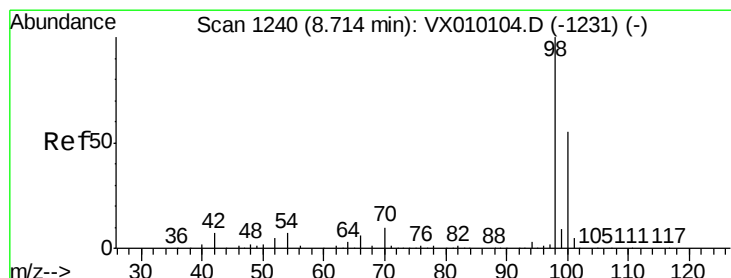
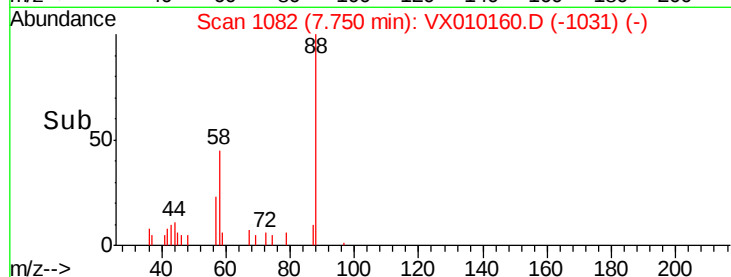
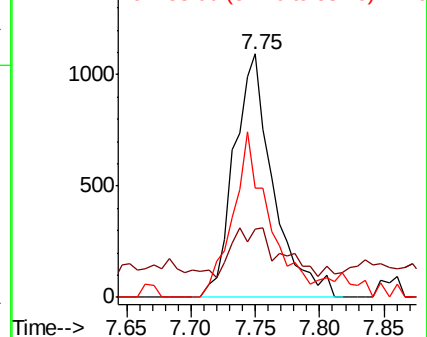
58 63.2 64.0 96.0#



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: 51.376 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010160.D

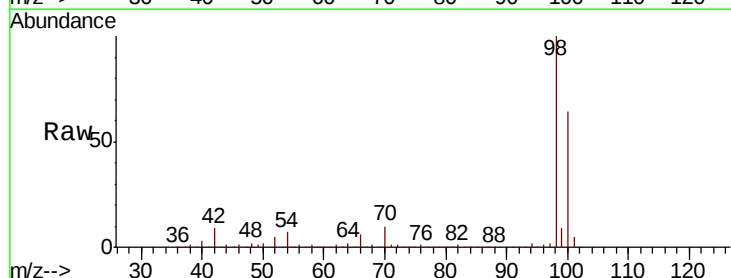
Acq: 08 Jun 2019 23:43

Tgt Ion: 98 Resp: 515527

Ion Ratio Lower Upper

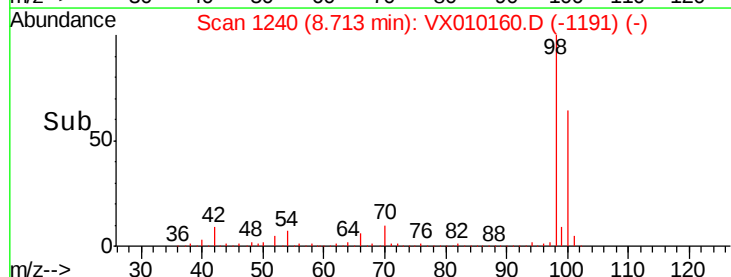
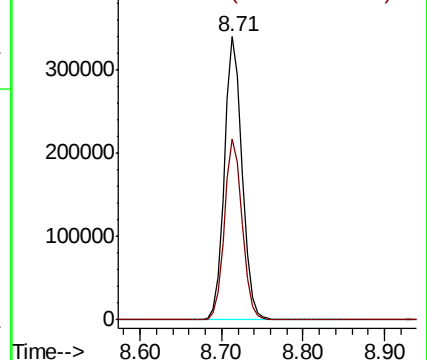
98 100

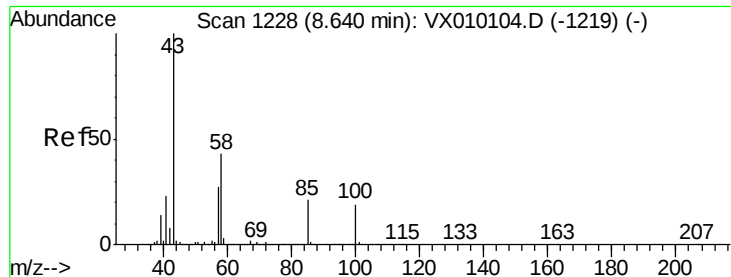
100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

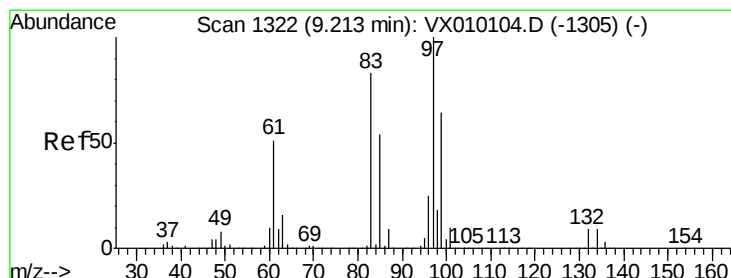
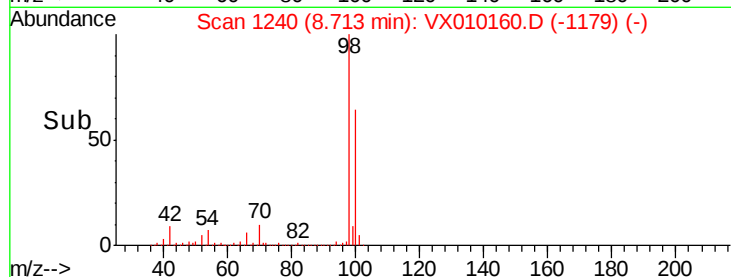
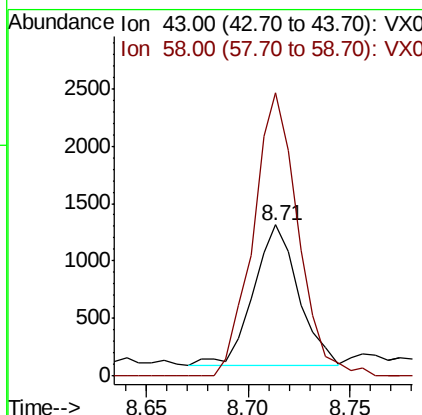
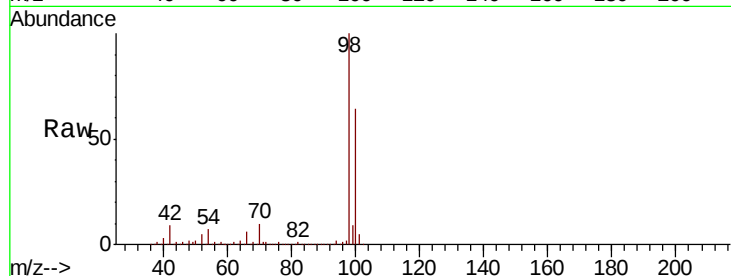




#51
 4-Methyl-2-Pentanone
 Concen: 0.508 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.07 min
 Lab File: VX010160.D
 Acq: 08 Jun 2019 23:43

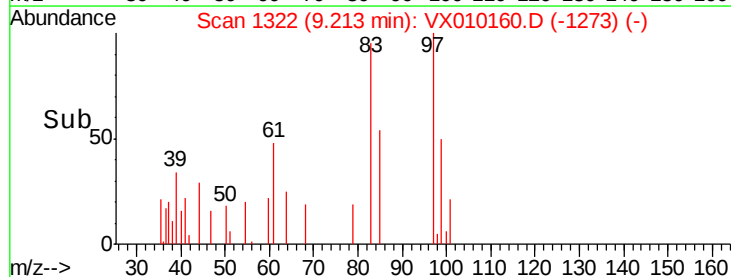
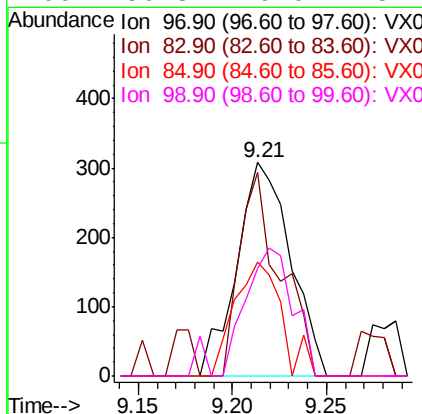
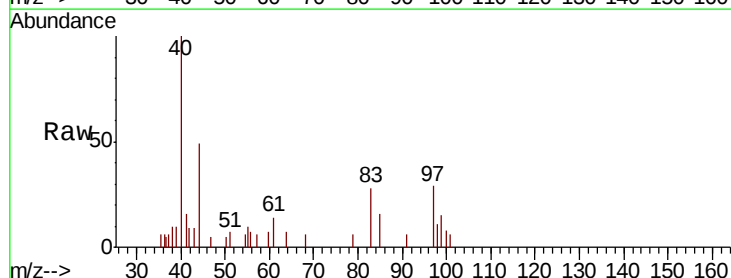
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20190606

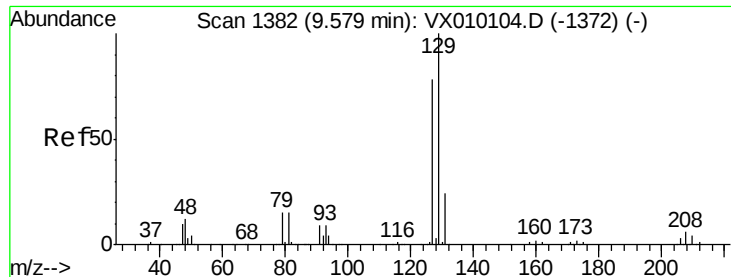
Tgt Ion: 43 Resp: 1871
 Ion Ratio Lower Upper
 43 100
 58 202.1 28.8 43.2#



#55
 1,1,2-Trichloroethane
 Concen: 0.207 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX010160.D
 Acq: 08 Jun 2019 23:43

Tgt Ion: 97 Resp: 610
 Ion Ratio Lower Upper
 97 100
 83 95.5 69.8 104.8
 85 53.6 45.3 67.9
 99 50.3 49.0 73.4





#60

Dibromochloromethane

Concen: 9.833 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

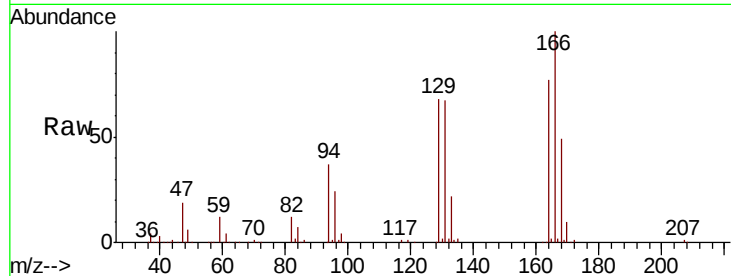
RE131D1-20190606

Tgt Ion:129 Resp: 34286

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

25000

20000

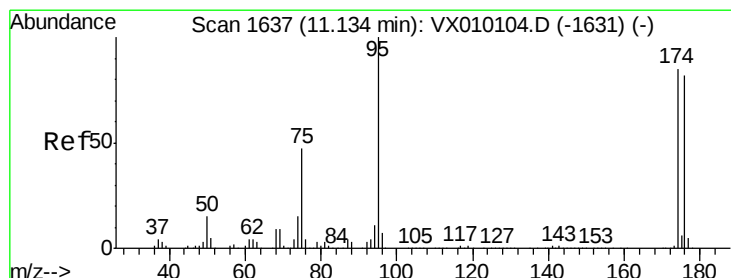
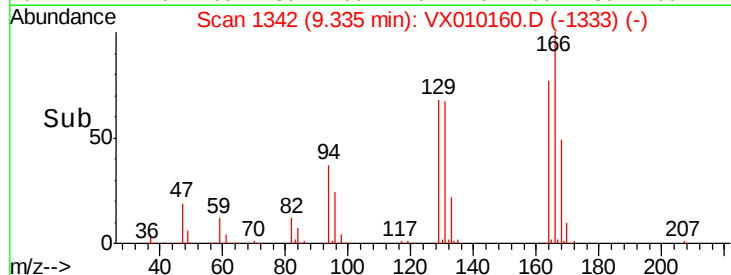
15000

10000

5000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 47.104 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

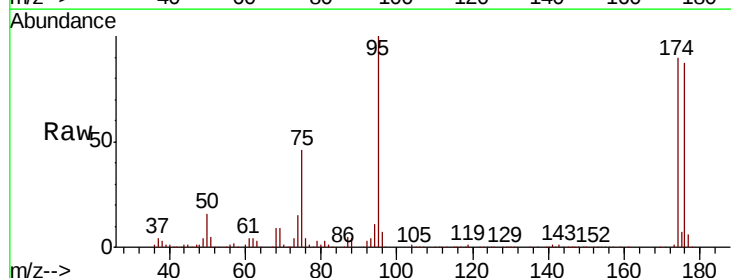
Tgt Ion: 95 Resp: 176519

Ion Ratio Lower Upper

95 100

174 94.2 0.0 160.4

176 90.7 0.0 154.6



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

200000

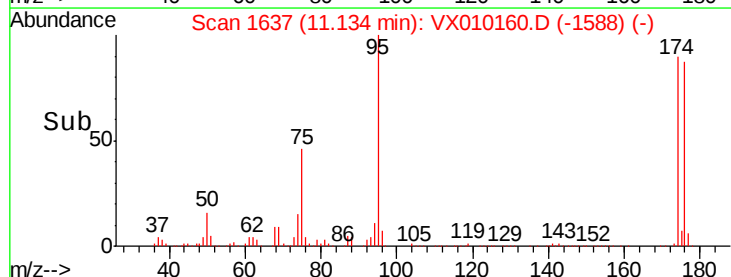
150000

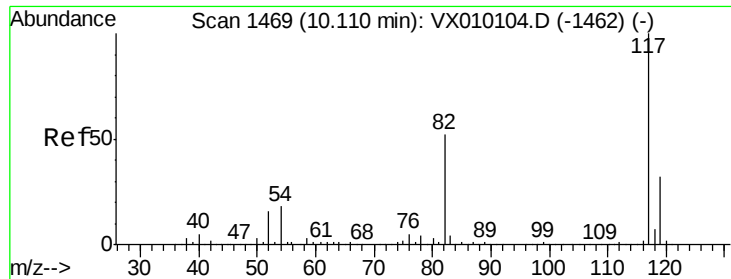
100000

50000

0

Time--> 11.00 11.10 11.20

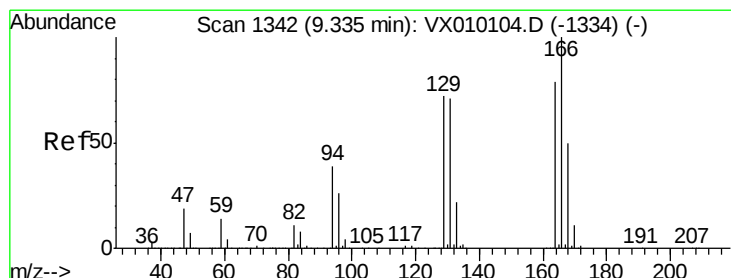
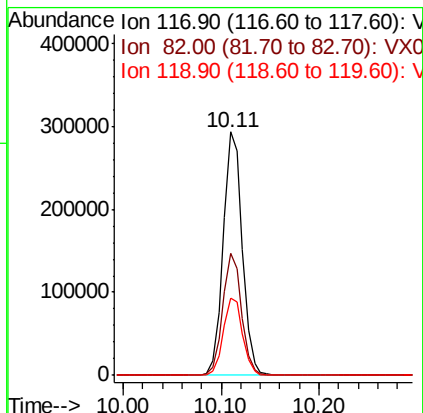
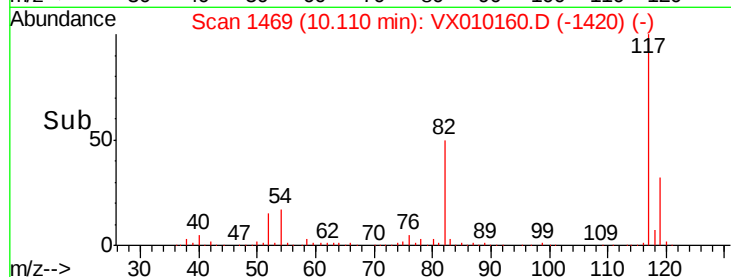
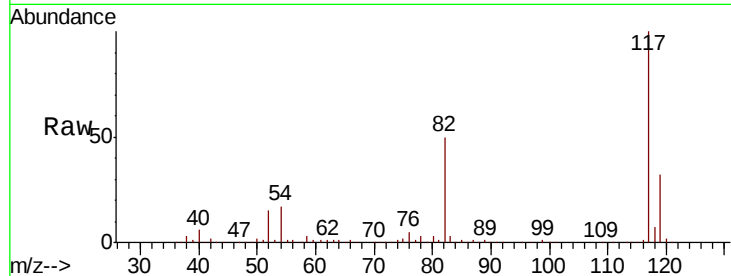




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

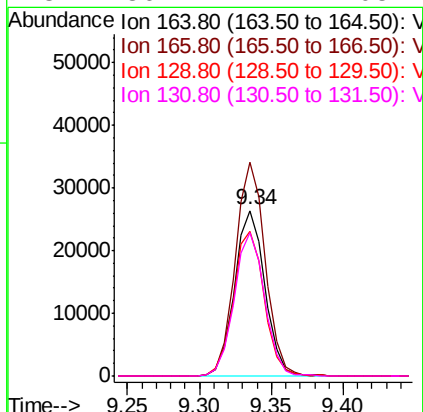
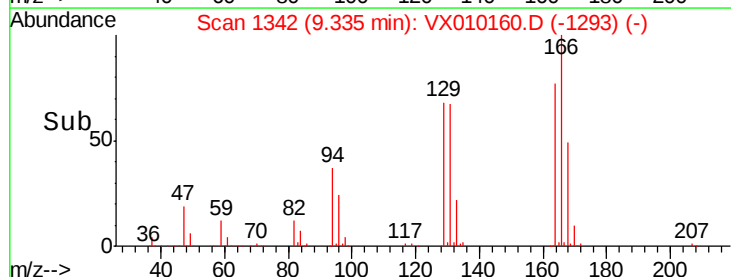
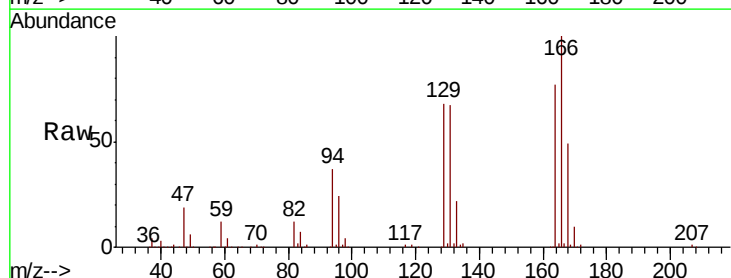
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20190606

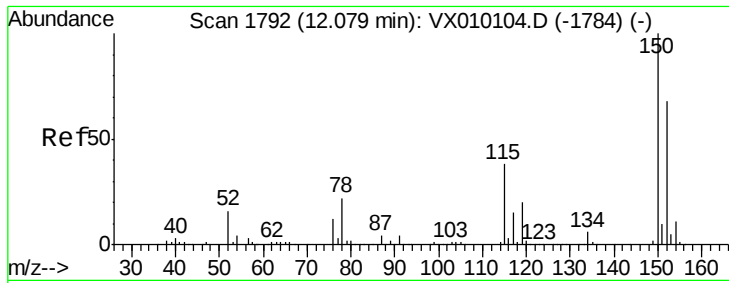
Tgt Ion:117 Resp: 395716
Ion Ratio Lower Upper
117 100
82 49.9 49.2 73.8
119 32.0 25.2 37.8



#64
Tetrachloroethene
Concen: 13.176 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010160.D
Acq: 08 Jun 2019 23:43

Tgt Ion:164 Resp: 38726
Ion Ratio Lower Upper
164 100
166 129.2 105.0 157.4
129 87.6 75.1 112.7
131 86.4 72.2 108.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190606

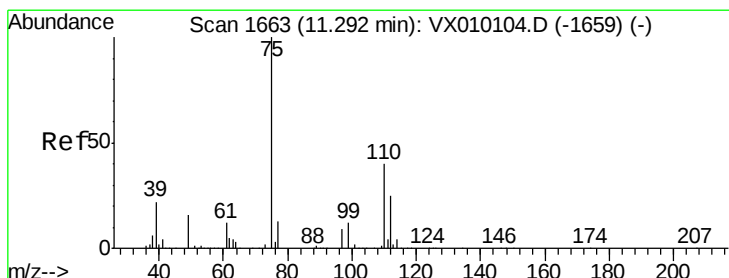
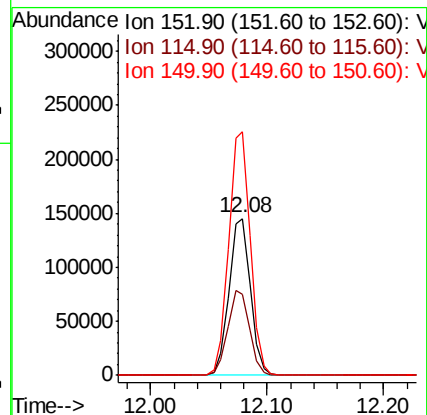
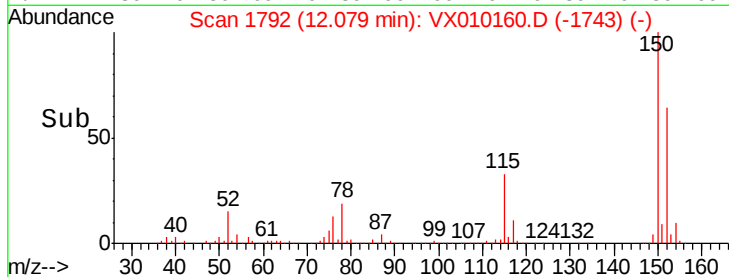
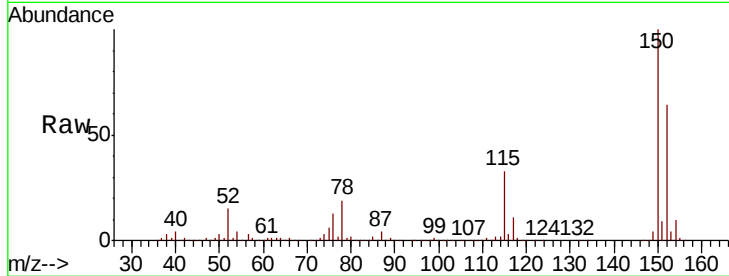
Tgt Ion:152 Resp: 184735

Ion Ratio Lower Upper

152 100

115 54.2 41.4 124.2

150 156.0 0.0 345.2



#76

1,2,3-Trichloropropane

Concen: 21.863 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010160.D

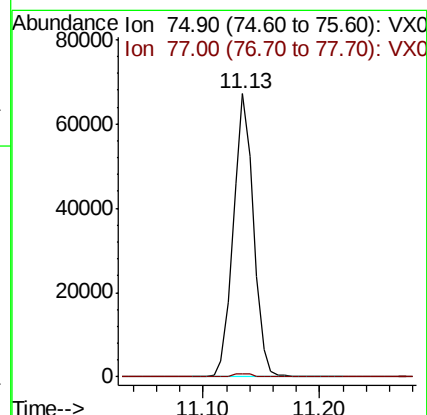
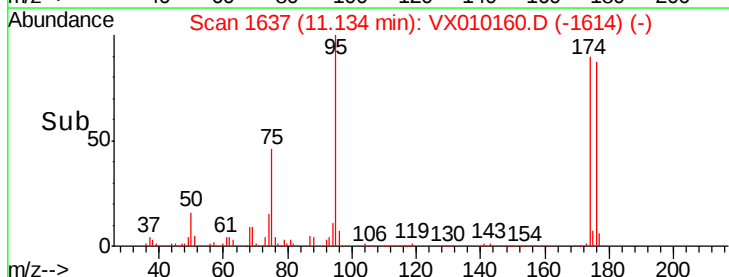
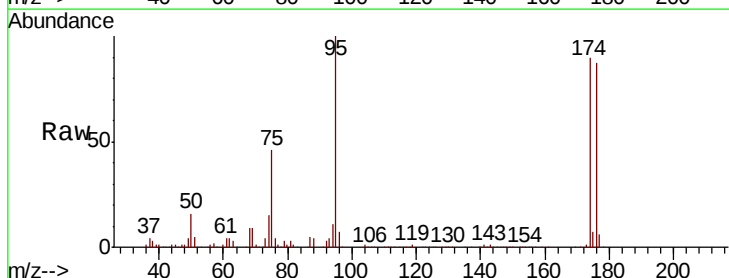
Acq: 08 Jun 2019 23:43

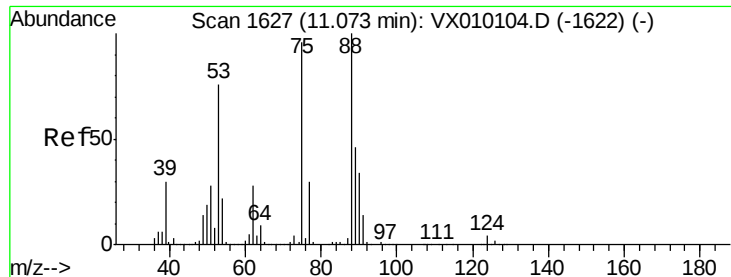
Tgt Ion: 75 Resp: 80786

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 48.305 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010160.D

Acq: 08 Jun 2019 23:43

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190606

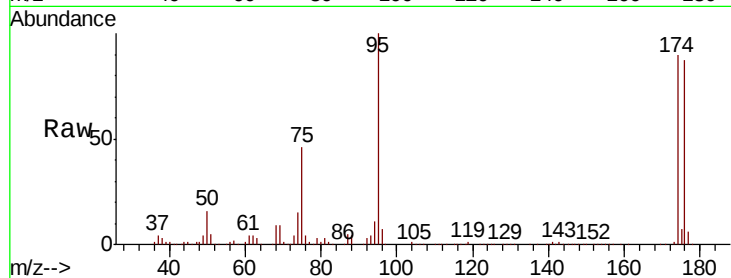
Tgt Ion: 75 Resp: 80786

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#



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

