

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\
 Data File : VX012960.D
 Acq On : 09 Oct 2019 23:07
 Operator : JC/SP
 Sample : K5259-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 10 06:47:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	184815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	309243	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95575	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	115938	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
35) Dibromofluoromethane	5.49	113	91133	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
50) Toluene-d8	8.71	98	359194	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	11.14	95	118488	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

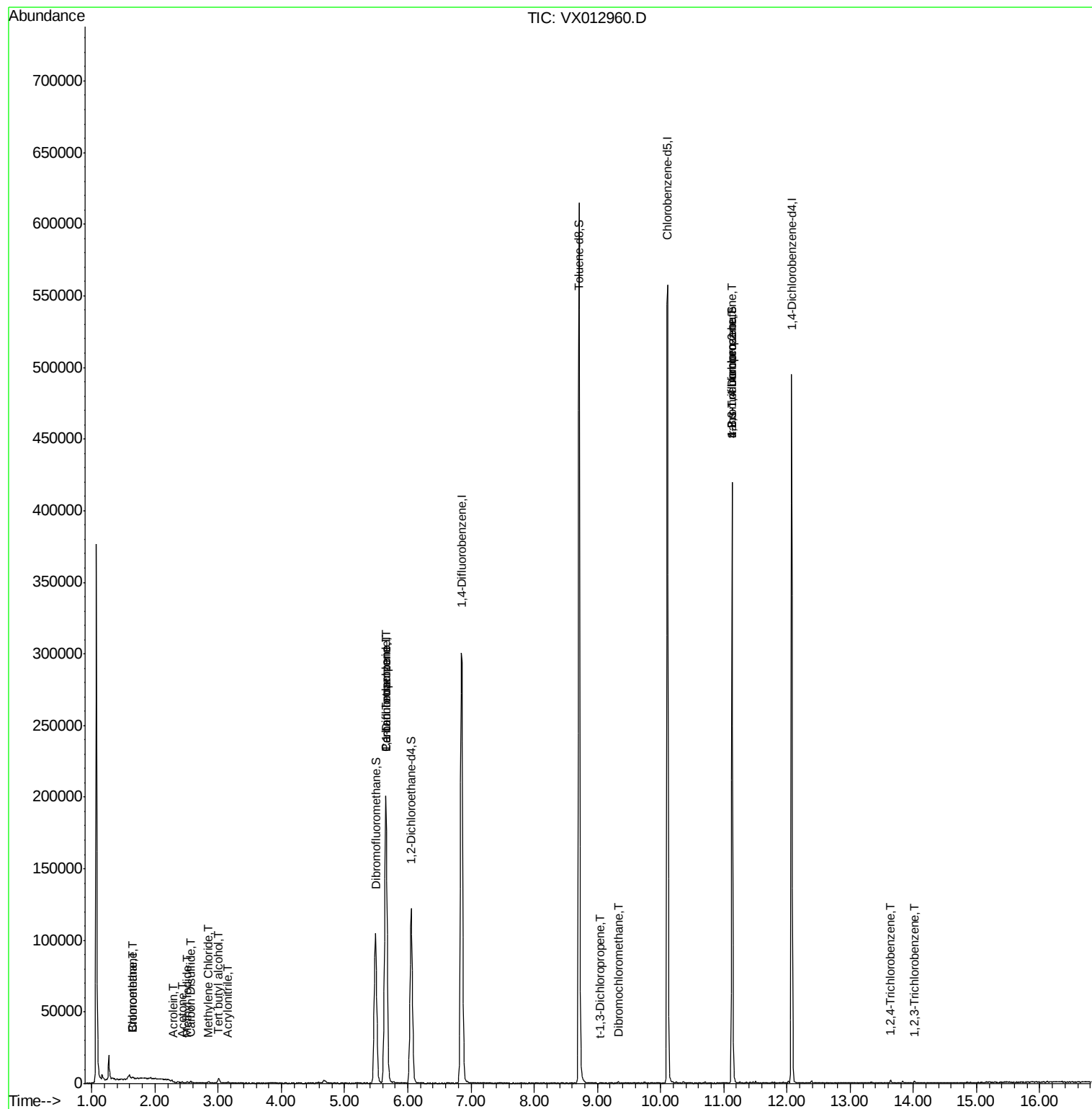
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	514	0.584	ug/l	99
6) Chloroethane	1.65	64	2205	2.061	ug/l #	70
10) Methyl Iodide	2.50	142	662	5.366	ug/l #	86
11) Tert butyl alcohol	3.01	59	2020	3.299	ug/l #	72
13) Acrolein	2.29	56	122	0.280	ug/l #	14
15) Acrylonitrile	3.15	53	275	0.237	ug/l #	75
16) Acetone	2.43	43	519	0.426	ug/l #	43
17) Carbon Disulfide	2.56	76	1326	0.249	ug/l #	71
20) Methylene Chloride	2.84	84	489	0.219	ug/l #	50
36) 1,1-Dichloropropene	5.65	75	14797	5.442	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18859	7.126	ug/l #	16
53) t-1,3-Dichloropropene	9.05	75	63	2.187	ug/l #	42
60) Dibromochloromethane	9.33	129	153	1.922	ug/l #	10
76) 1,2,3-Trichloropropane	11.13	75	60193	28.395	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	60193	71.137	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.64	180	563	0.298	ug/l	92
96) 1,2,3-Trichlorobenzene	14.01	180	446	0.229	ug/l #	72

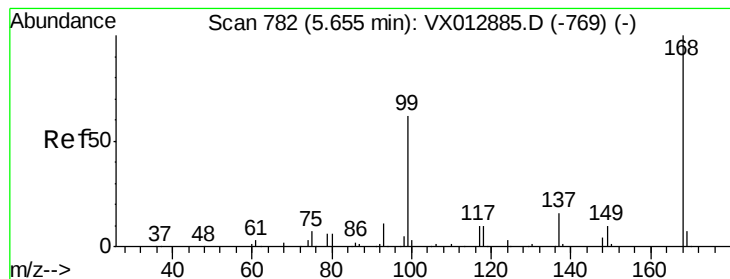
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

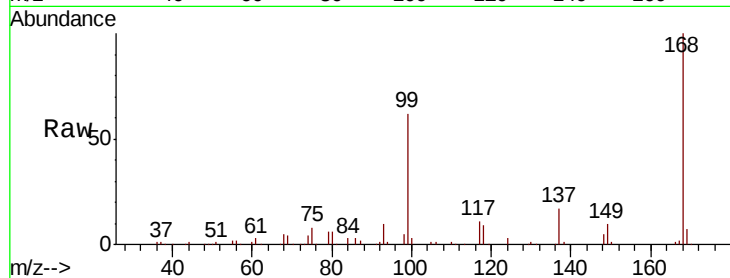
ClientSampleId :

Tot Ion:168 Resp: 184815

Ion Ratio Lower Upper

168 100

99 62.2 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

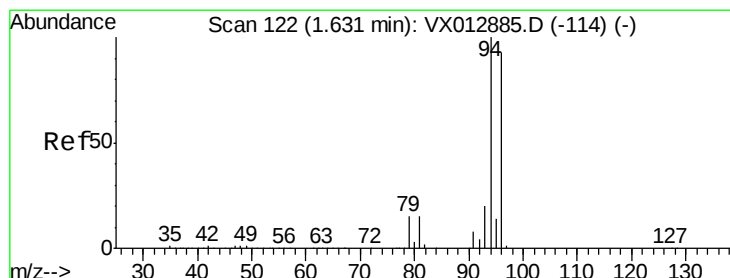
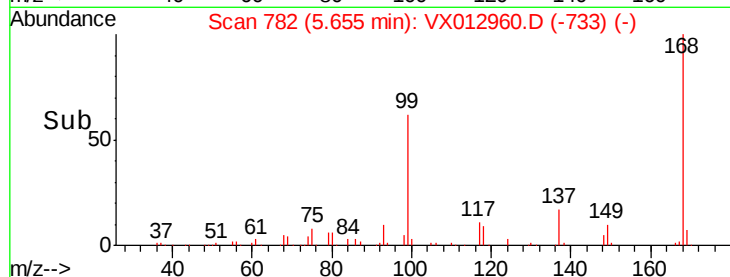
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#5

Bromomethane

Concen: 0.584 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012960.D

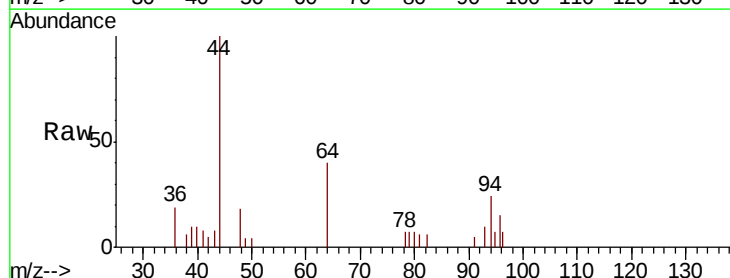
Acq: 09 Oct 2019 23:07

Tgt Ion: 94 Resp: 514

Ion Ratio Lower Upper

94 100

96 93.9 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

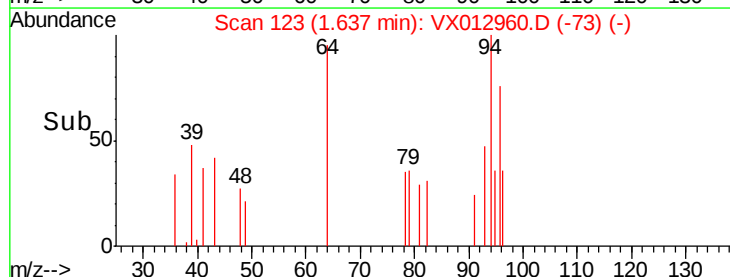
300

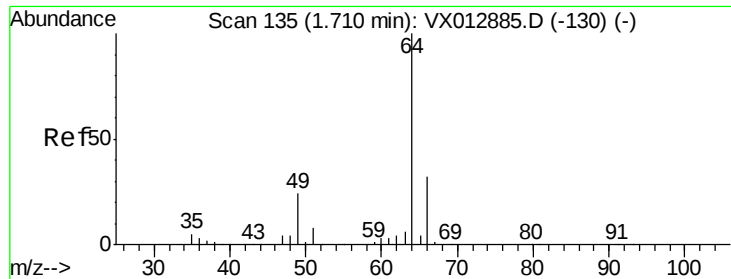
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 2.061 ug/l

RT: 1.65 min Scan# 125

Delta R.T. -0.06 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

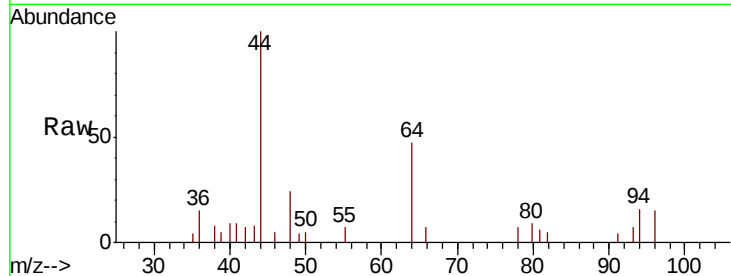
ClientSampleId :

Tot Ion: 64 Resp: 2205

Ion Ratio Lower Upper

64 100

66 15.3 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.65

600

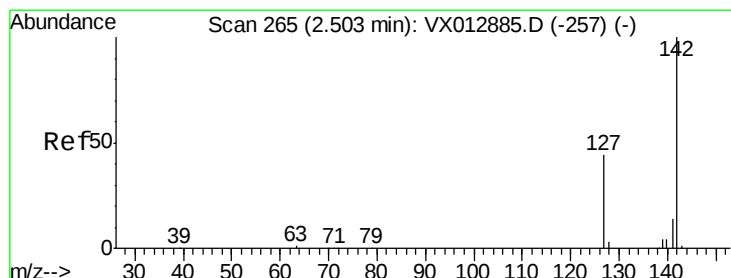
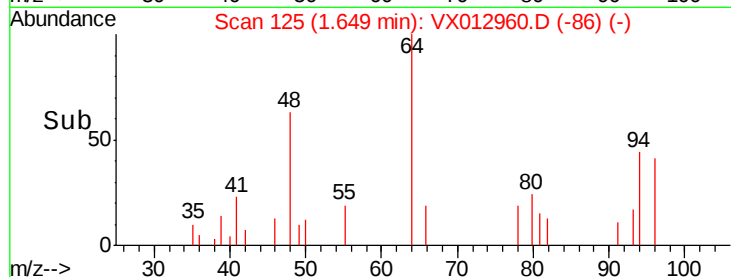
400

200

0

Time-->

1.55 1.60 1.65



#10

Methyl Iodide

Concen: 5.366 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

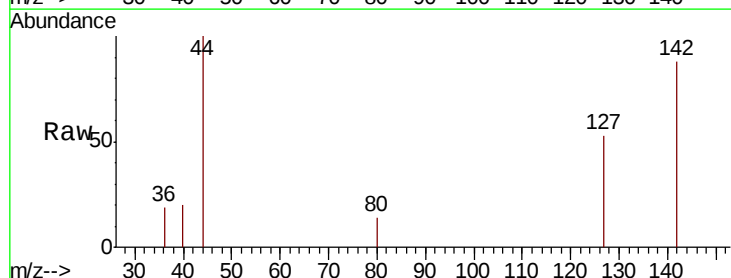
Tgt Ion: 142 Resp: 662

Ion Ratio Lower Upper

142 100

127 48.3 34.9 52.3

141 0.0 11.6 17.4#



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

2.50

400

300

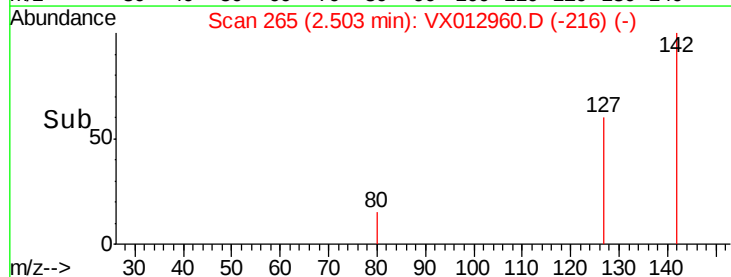
200

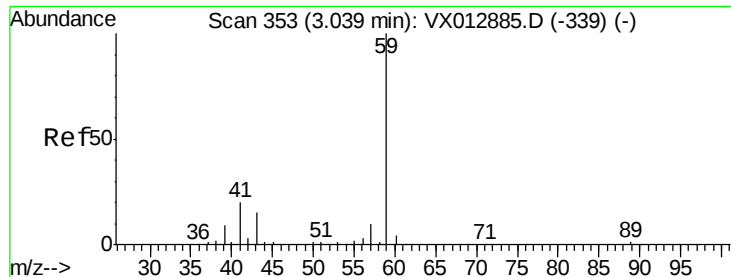
100

0

Time-->

2.45 2.50 2.55

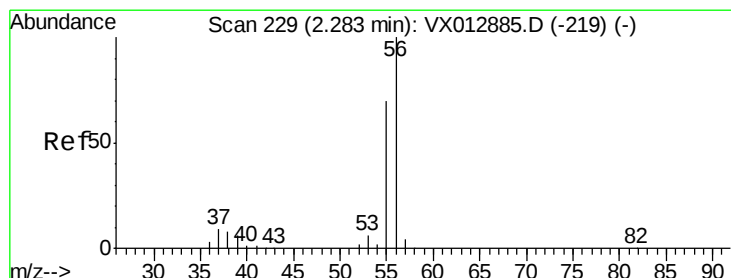
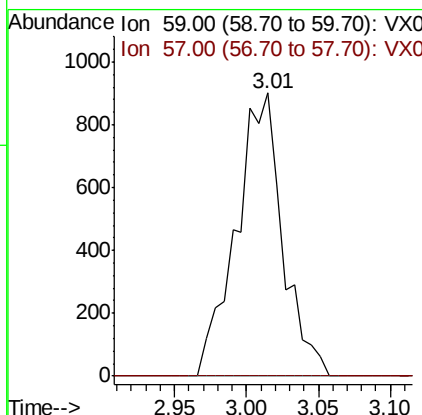
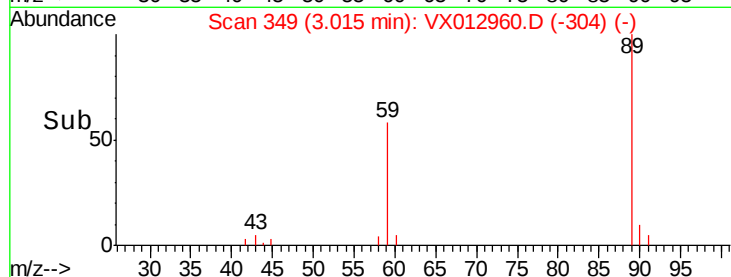
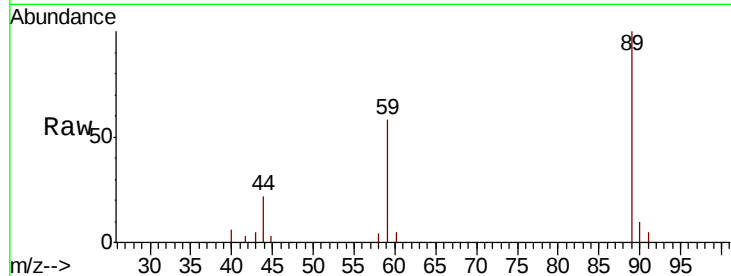




#11
Tert butyl alcohol
Concen: 3.299 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

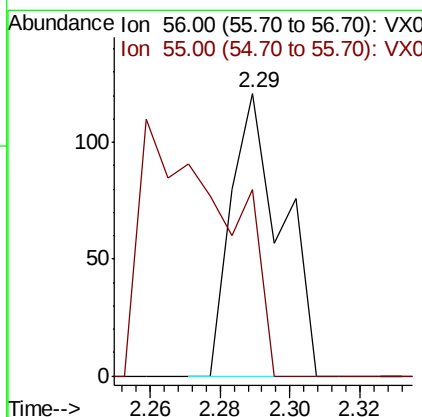
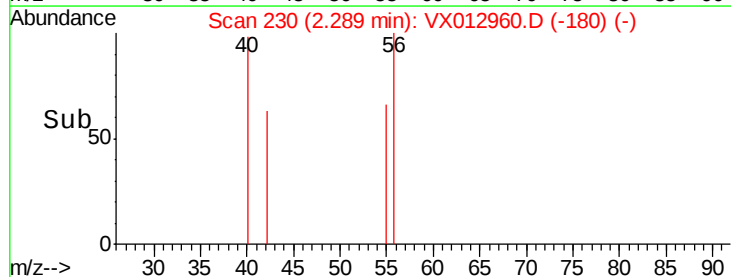
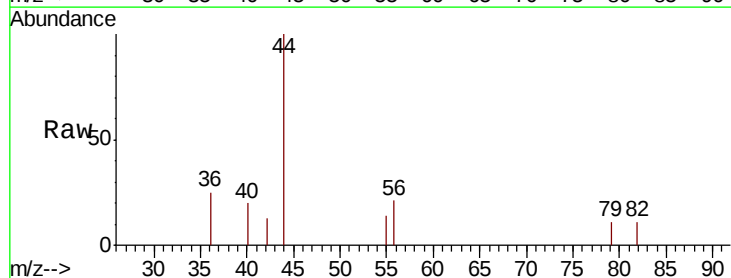
Instrument :
MSVOA_X
ClientSampled :

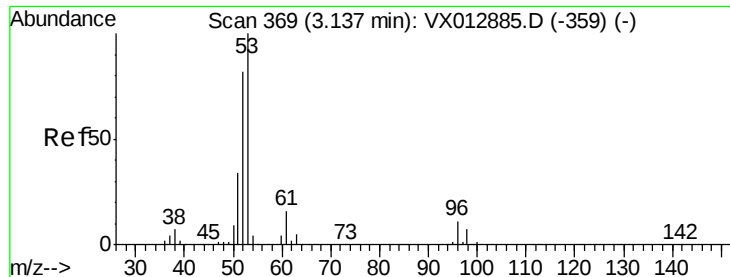
Tot Ion: 59 Resp: 2020
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.280 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#





#15

Acrylonitrile

Concen: 0.237 ug/l

RT: 3.15 min Scan# 371

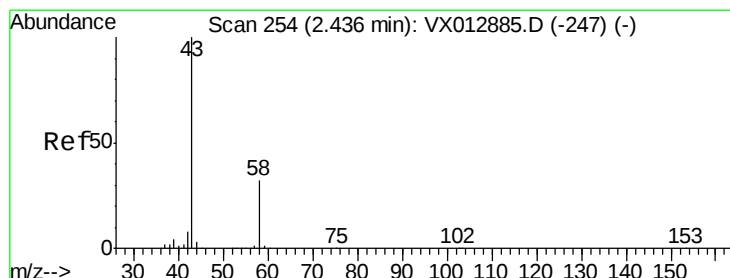
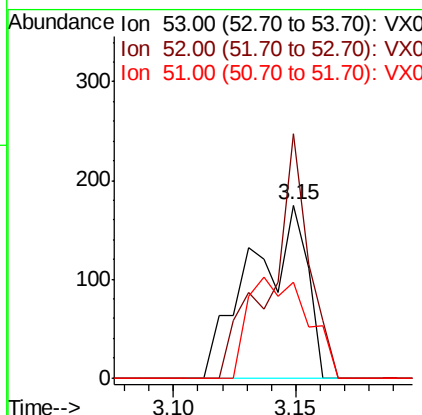
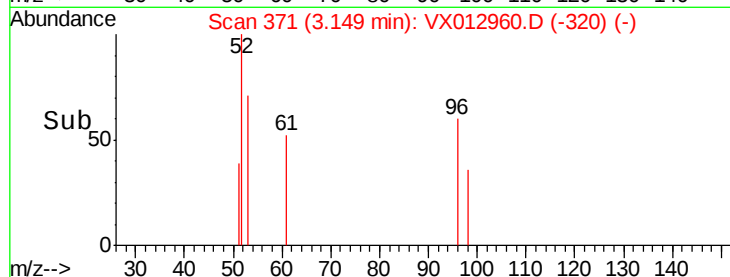
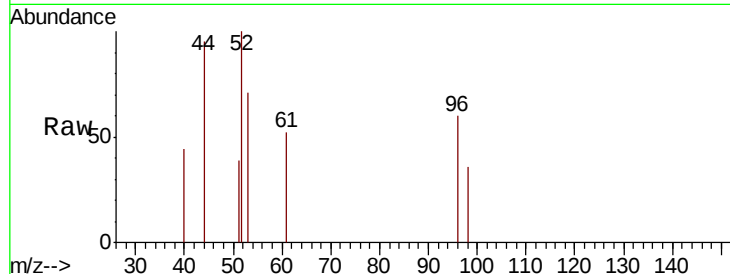
Delta R.T. 0.01 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	275
Ion	Ratio	Lower	Upper
53	100		
52	97.1	66.2	99.2
51	62.5	28.2	42.4#



#16

Acetone

Concen: 0.426 ug/l

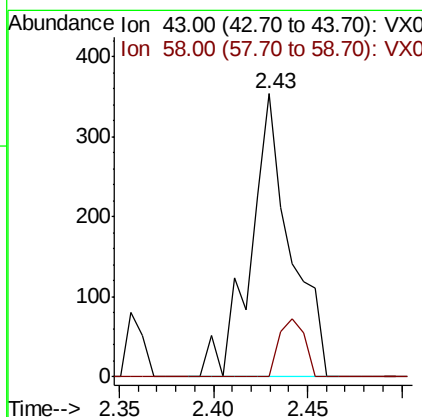
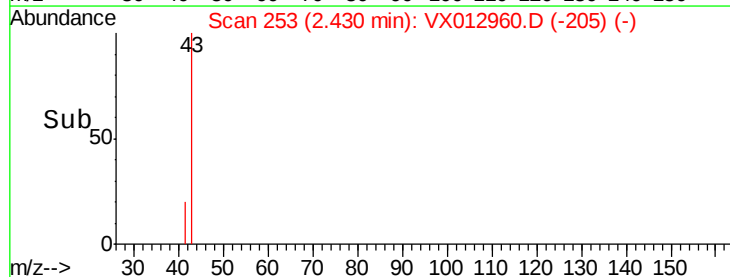
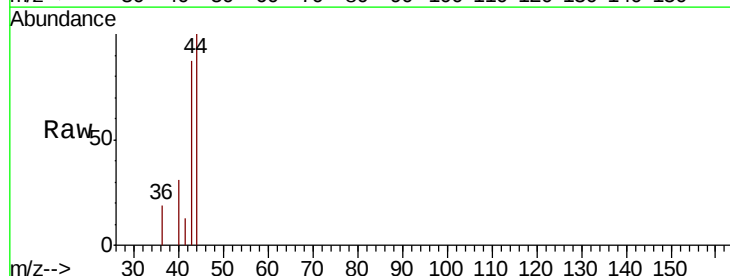
RT: 2.43 min Scan# 253

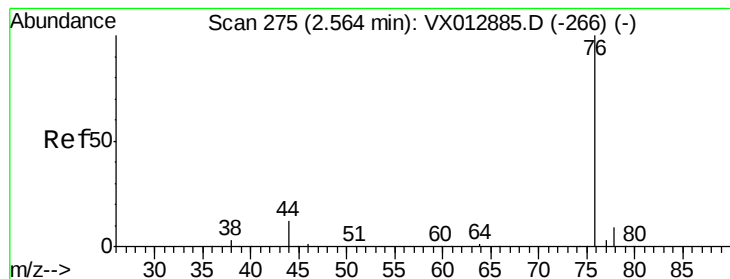
Delta R.T. -0.01 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Tgt Ion:	43	Resp:	519
Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.4	38.2#





#17

Carbon Disulfide

Concen: 0.249 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

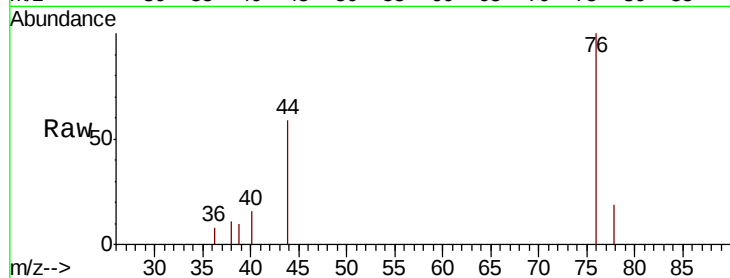
ClientSampleId :

Tot Ion: 76 Resp: 1326

Ion Ratio Lower Upper

76 100

78 19.2 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

800

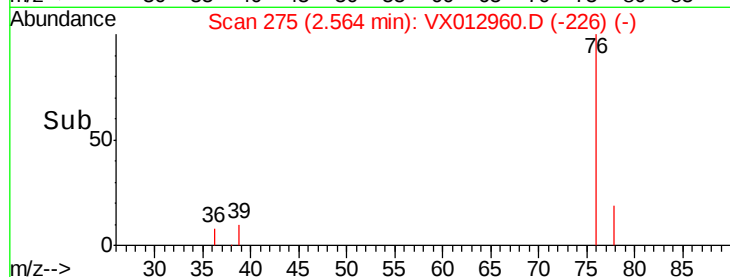
600

400

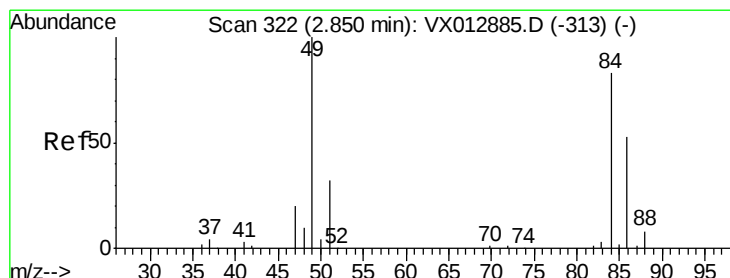
200

0

Time--> 2.50



Time--> 2.50



#20

Methylene Chloride

Concen: 0.219 ug/l

RT: 2.84 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Tgt Ion: 84 Resp: 489

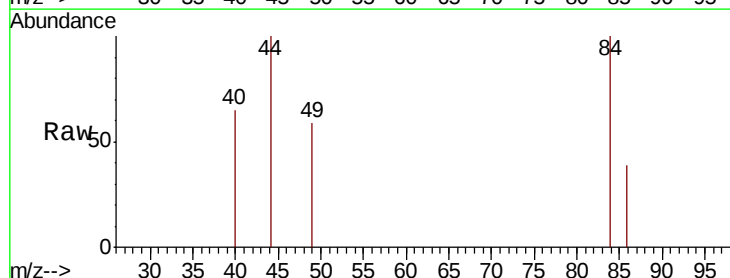
Ion Ratio Lower Upper

84 100

49 58.9 96.6 144.8#

51 0.0 30.7 46.1#

86 38.7 51.0 76.6#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

500

400

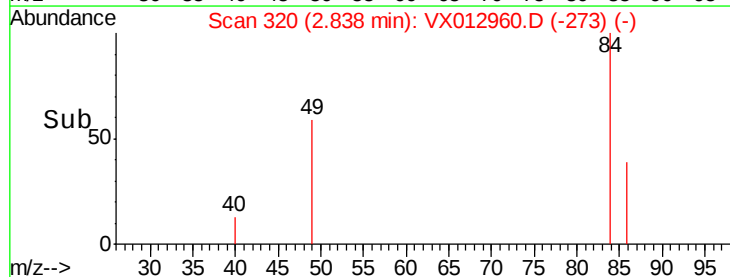
300

200

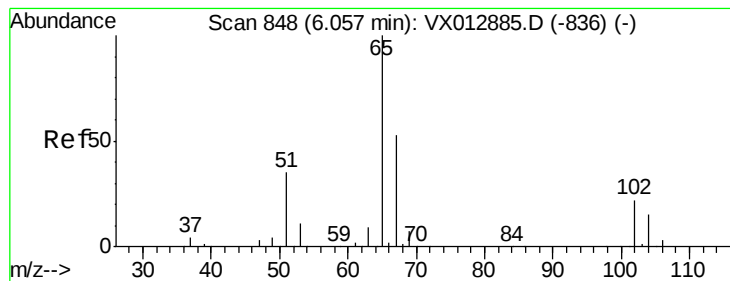
100

0

Time--> 2.80



Time--> 2.80



#33

1,2-Dichloroethane-d4

Concen: 50.191 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

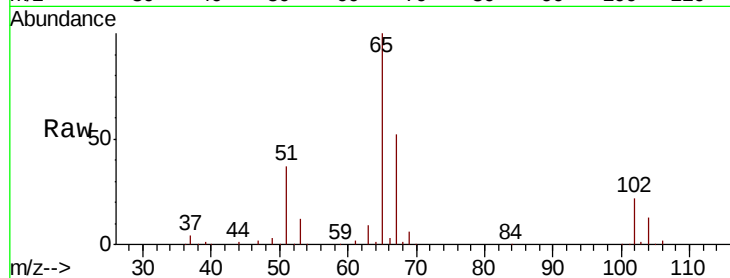
ClientSampleId :

Tot Ion: 65 Resp: 115938

Ion Ratio Lower Upper

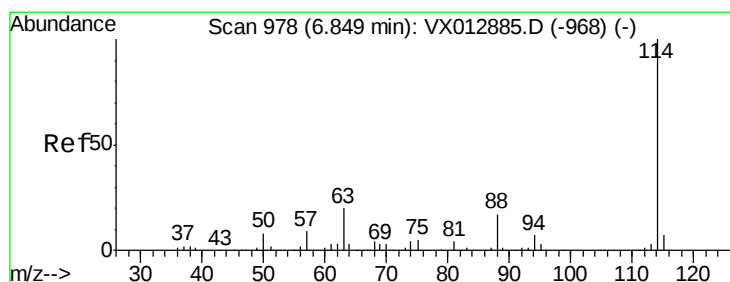
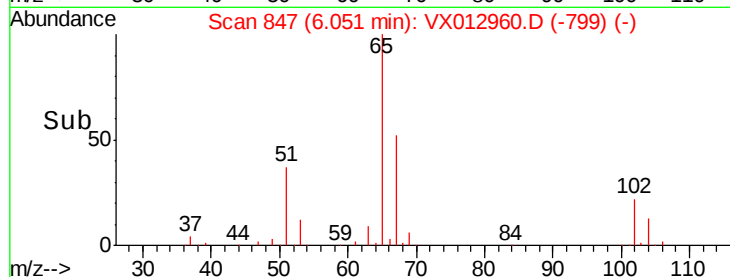
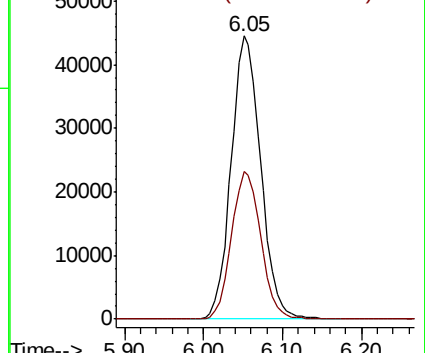
65 100

67 52.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

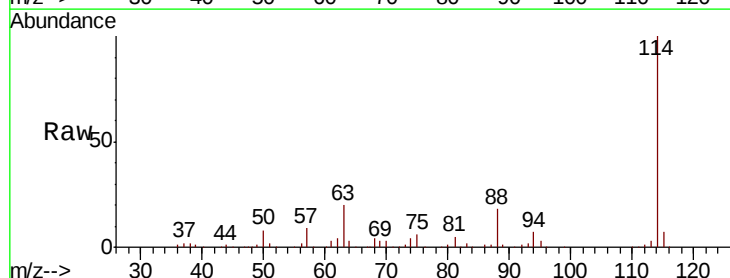
Tgt Ion: 114 Resp: 309243

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

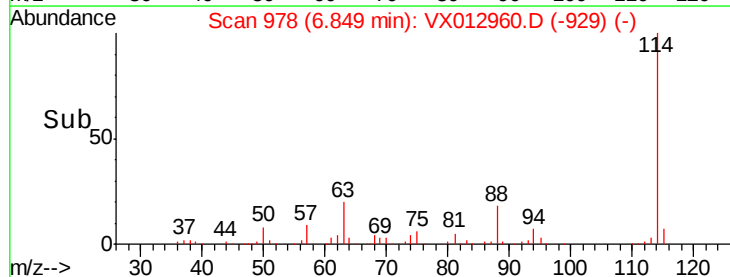
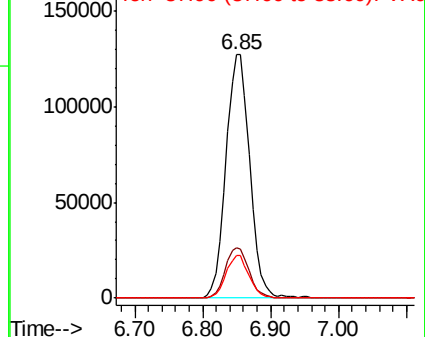
88 17.7 0.0 33.8

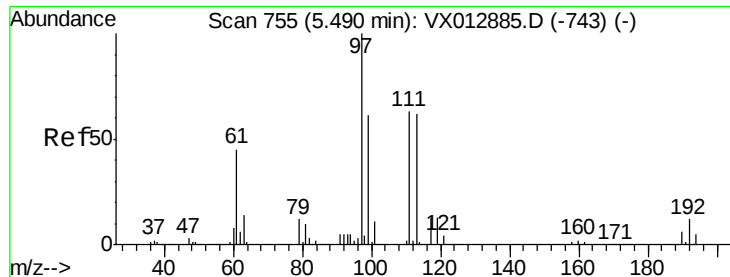


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.346 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

ClientSampleId :

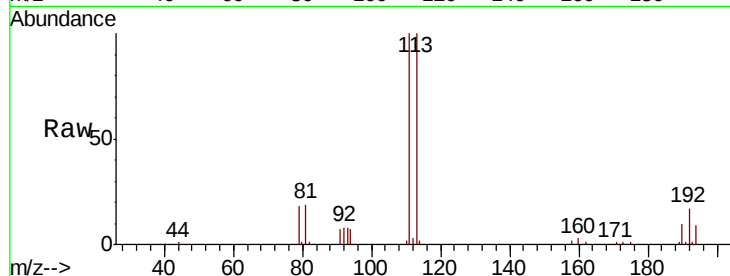
Tot Ion:113 Resp: 91133

Ion Ratio Lower Upper

113 100

111 101.7 83.2 124.8

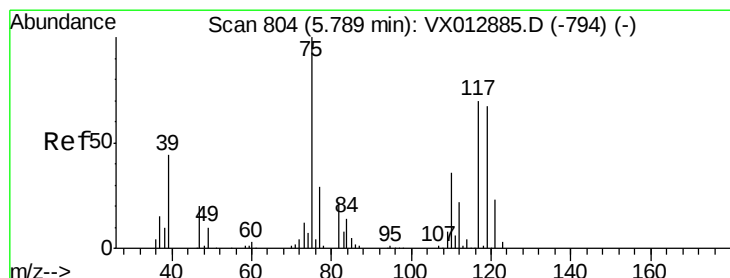
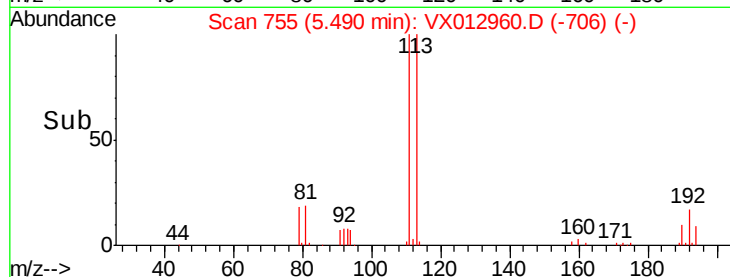
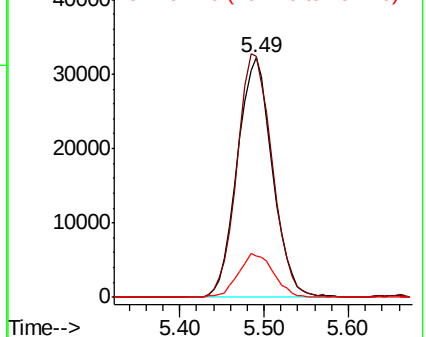
192 18.3 15.4 23.2



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: 5.442 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

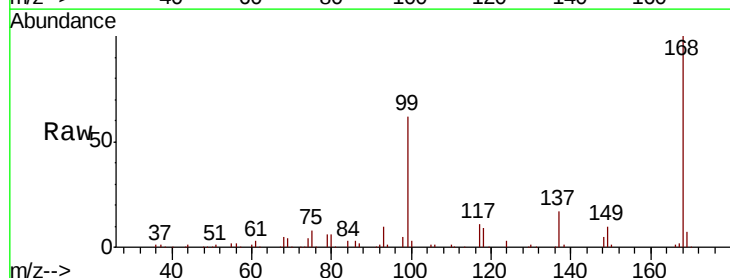
Tgt Ion: 75 Resp: 14797

Ion Ratio Lower Upper

75 100

110 8.8 17.6 52.9#

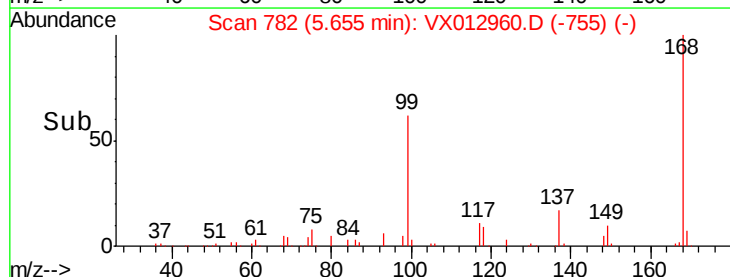
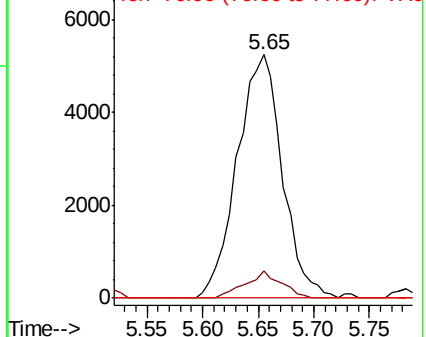
77 0.0 24.4 36.6#

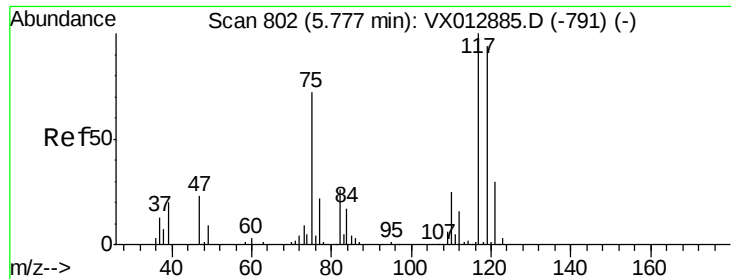


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

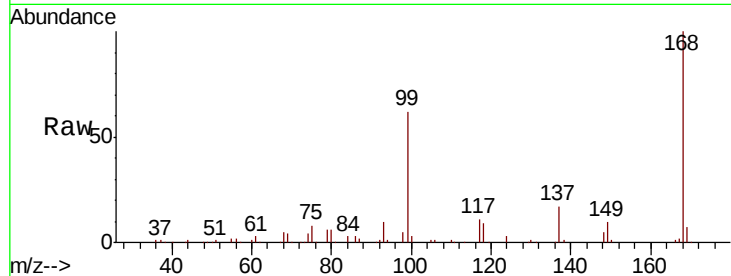




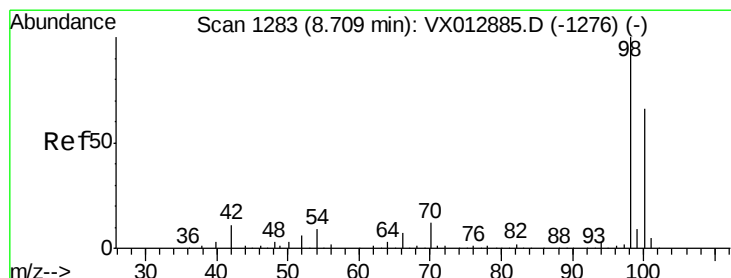
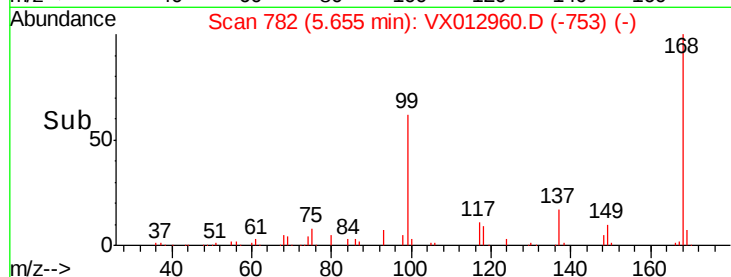
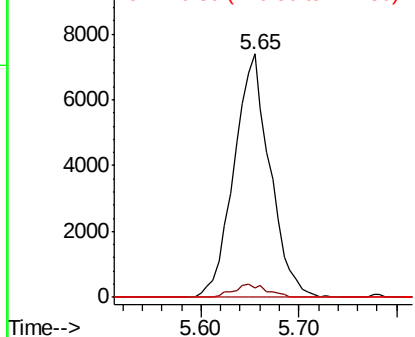
#38
Carbon Tetrachloride
Concen: 7.126 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 18859
Ion Ratio Lower Upper
117 100
119 4.1 74.5 111.7#
121 0.0 24.2 36.4#

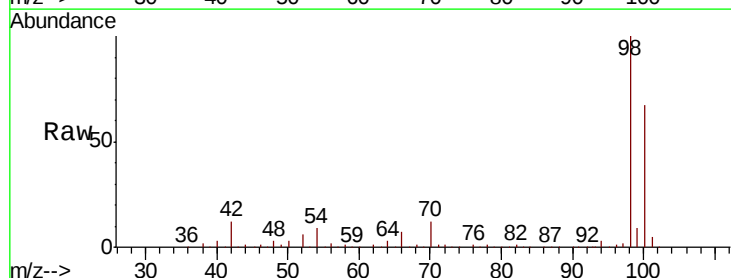


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

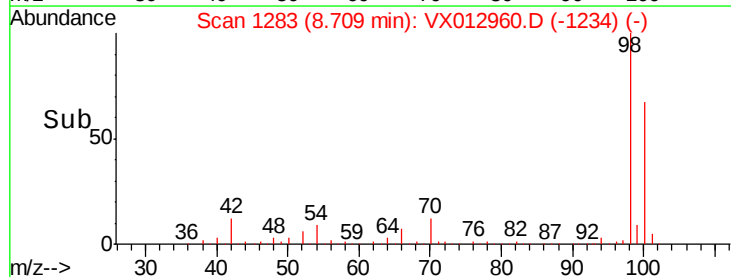
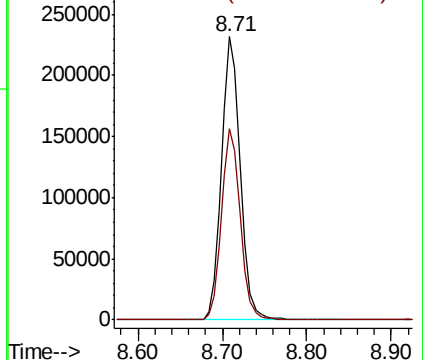


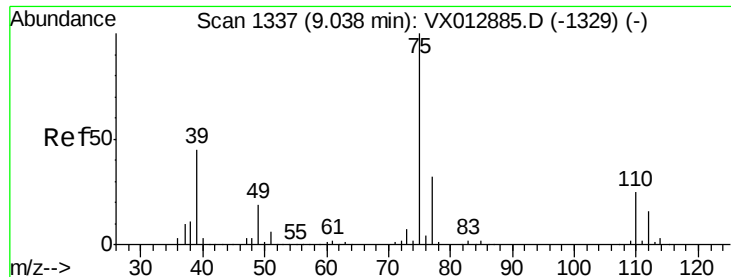
#50
Toluene-d8
Concen: 51.888 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

Tgt Ion: 98 Resp: 359194
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

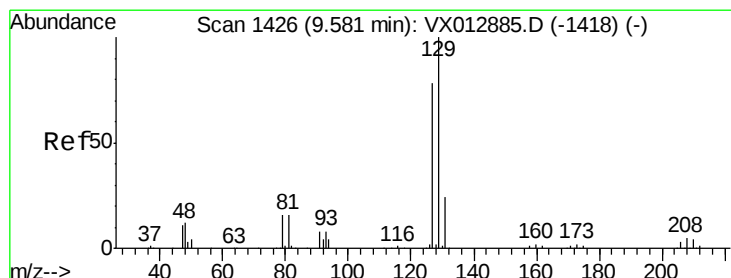
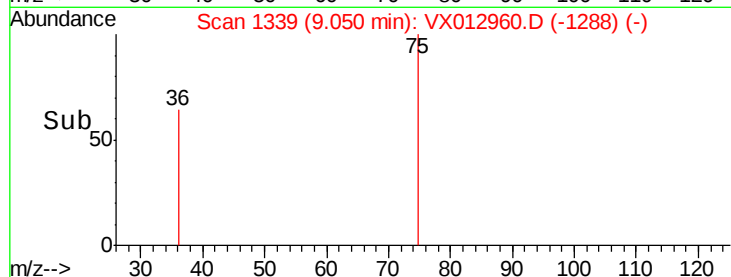
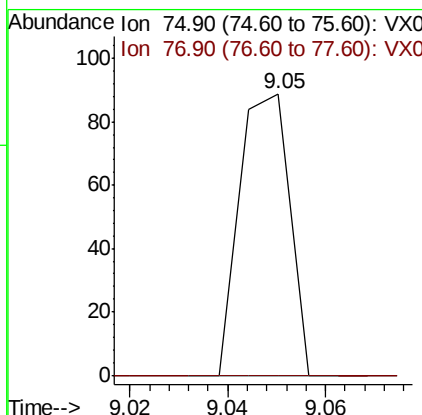
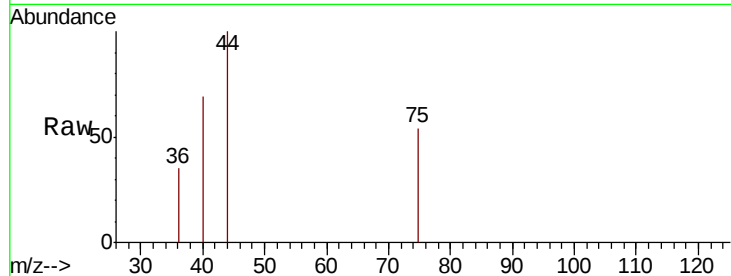




#53
t-1,3-Dichloropropene
Concen: 2.187 ug/l
RT: 9.05 min Scan# 1339
Delta R.T. 0.01 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

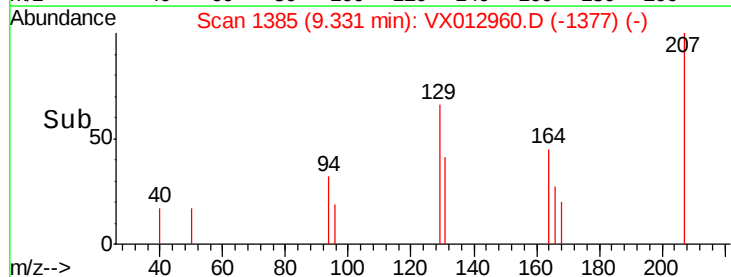
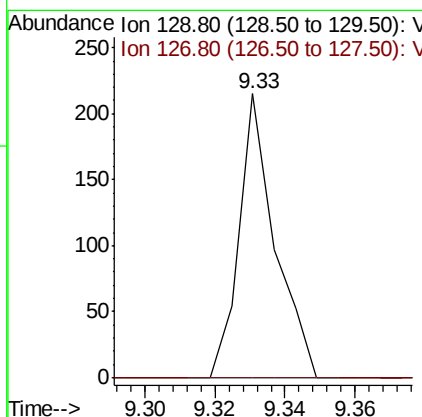
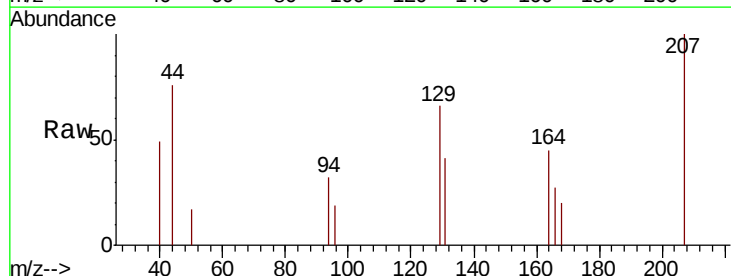
Instrument :
MSVOA_X
ClientSampleId :

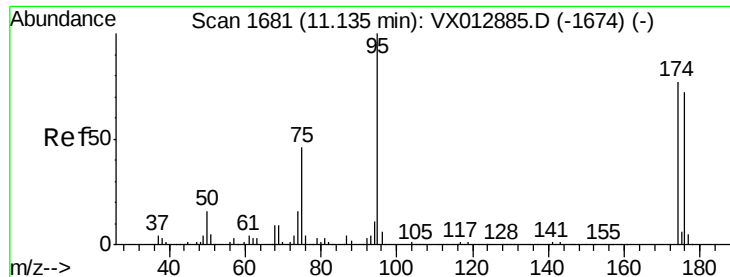
Tot Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#



#60
Dibromochloromethane
Concen: 1.922 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX012960.D
Acq: 09 Oct 2019 23:07

Tgt Ion:129 Resp: 153
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#





#62

4-Bromofluorobenzene

Concen: 44.051 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

ClientSampleId :

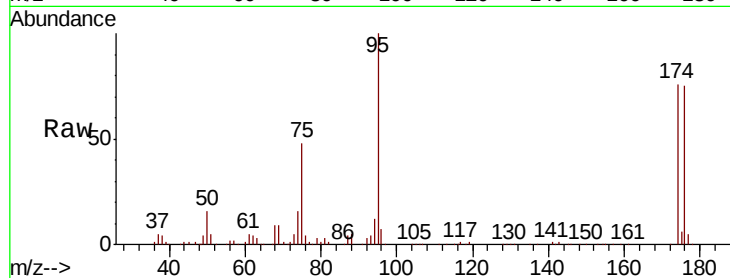
Tot Ion: 95 Resp: 118488

Ion Ratio Lower Upper

95 100

174 72.2 0.0 143.4

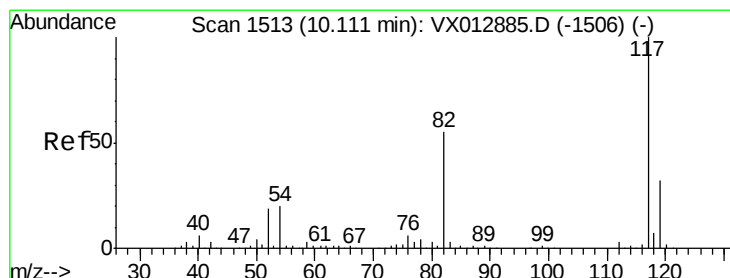
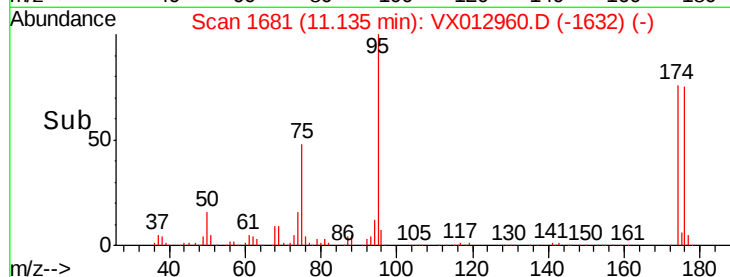
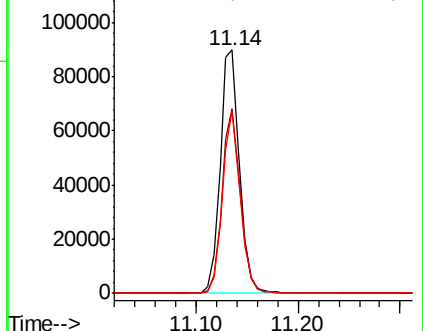
176 68.9 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

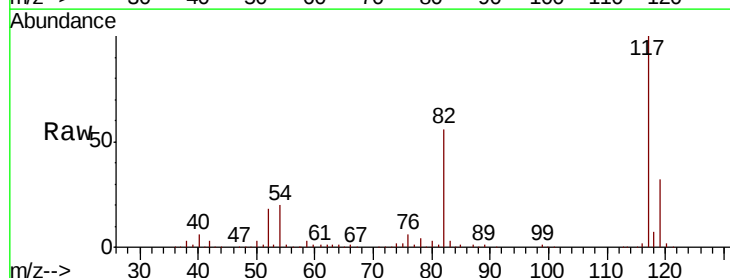
Tgt Ion: 117 Resp: 256731

Ion Ratio Lower Upper

117 100

82 55.6 44.1 66.1

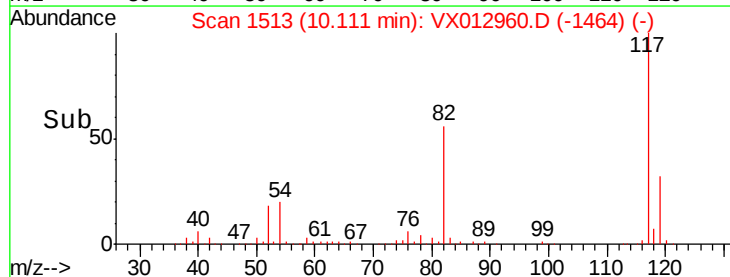
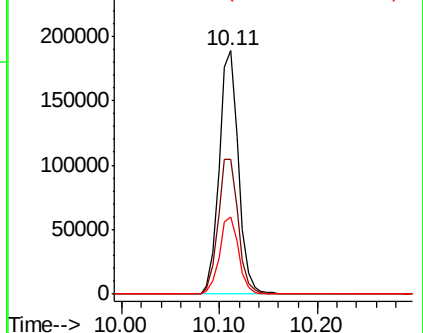
119 31.9 25.8 38.8

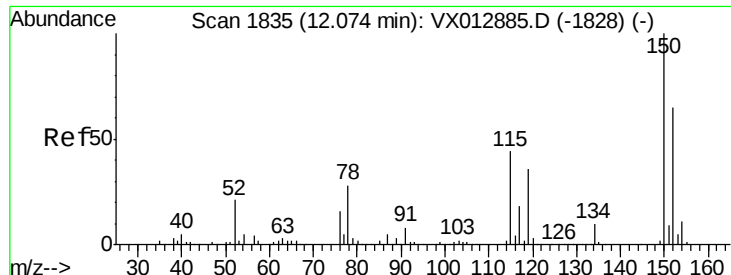


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

ClientSampleId :

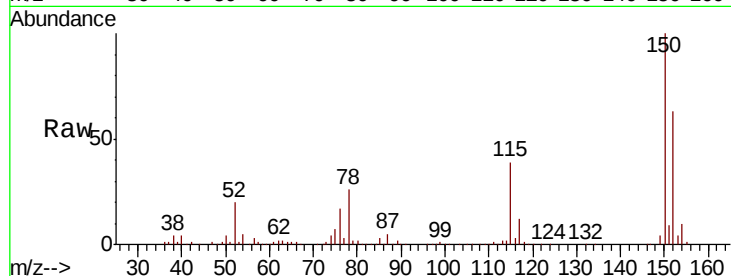
Tot Ion:152 Resp: 95575

Ion Ratio Lower Upper

152 100

115 64.7 44.5 133.5

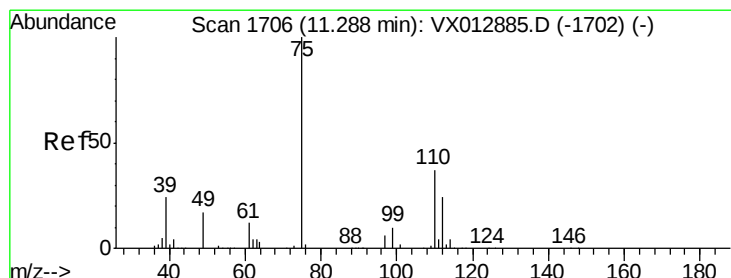
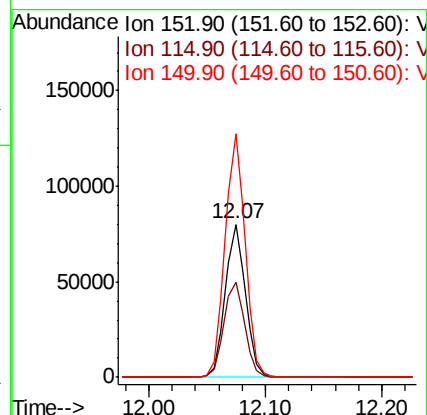
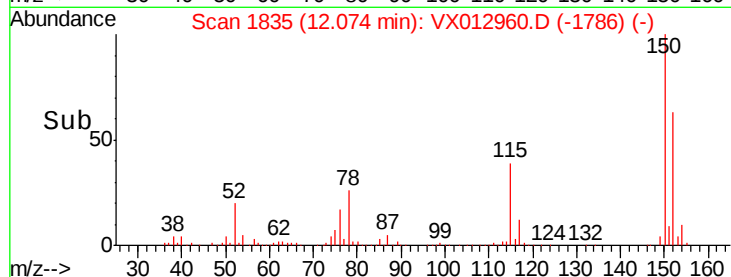
150 158.4 0.0 353.4



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: 28.395 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012960.D

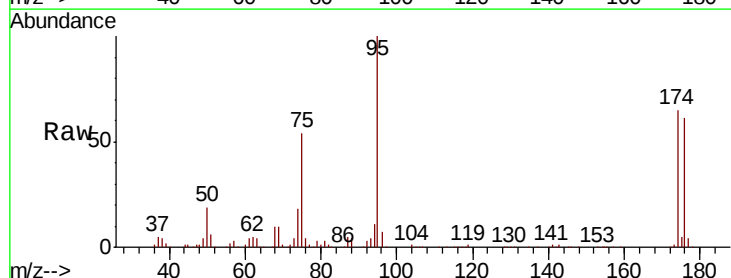
Acq: 09 Oct 2019 23:07

Tgt Ion: 75 Resp: 60193

Ion Ratio Lower Upper

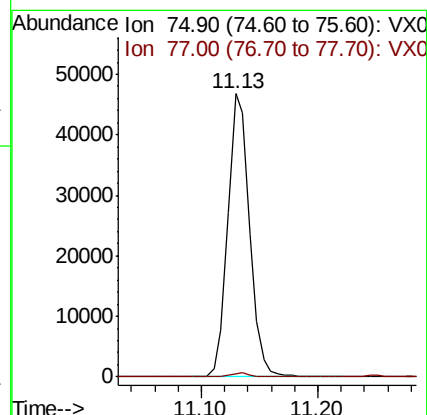
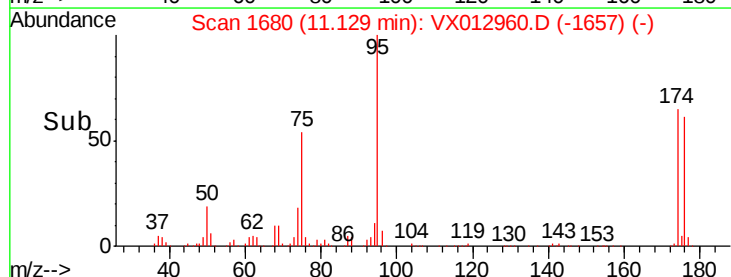
75 100

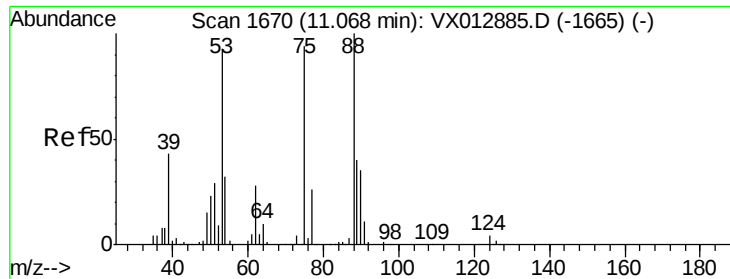
77 1.2 22.9 68.8#



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: 71.137 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

Instrument :

MSVOA_X

ClientSampleId :

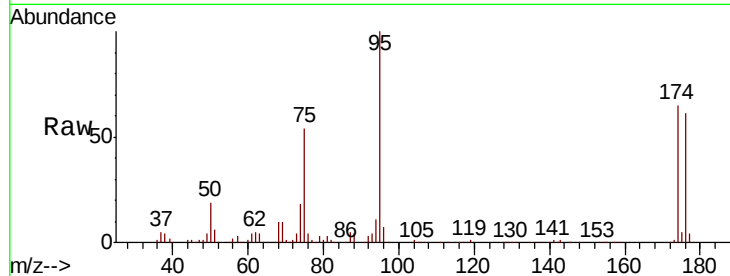
Tot Ion: 75 Resp: 60193

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

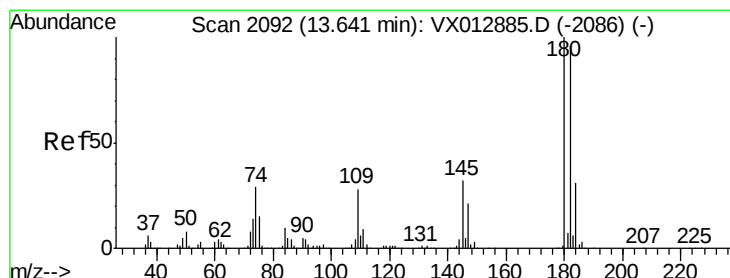
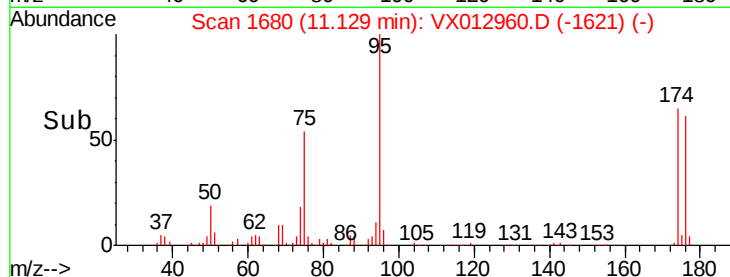
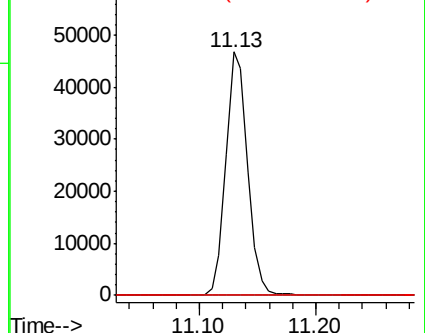
89 0.0 37.4 56.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.298 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX012960.D

Acq: 09 Oct 2019 23:07

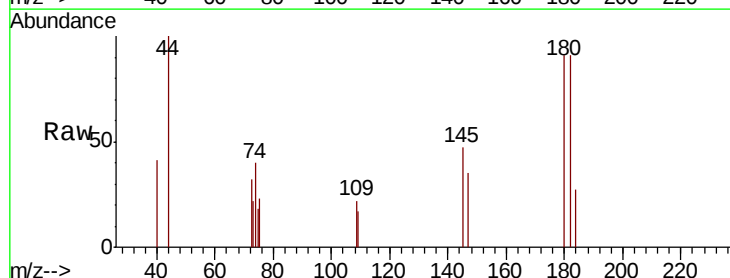
Tgt Ion:180 Resp: 563

Ion Ratio Lower Upper

180 100

182 86.1 46.8 140.4

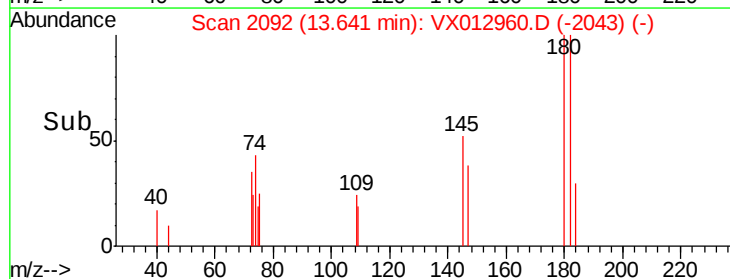
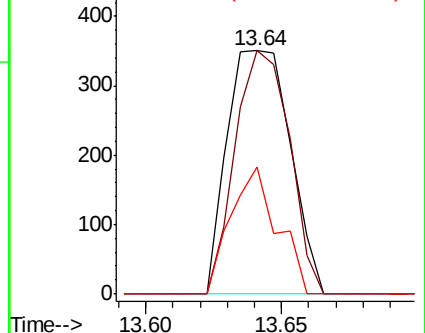
145 38.4 16.2 48.6

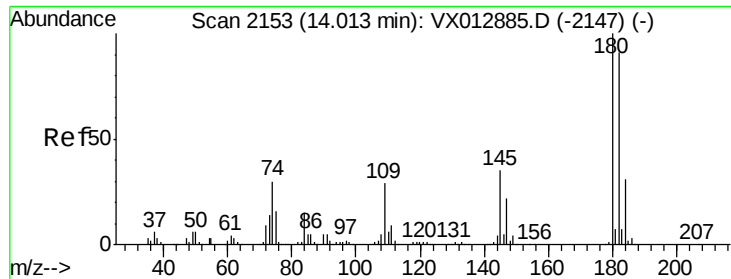


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.229 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX012960.D
 Acq: 09 Oct 2019 23:07

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	79.1	47.5	142.5
145	0.0	17.4	52.3

