

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101419\
 Data File : VX013053.D
 Acq On : 14 Oct 2019 15:43
 Operator : JC/SP
 Sample : K5336-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 15 01:26:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	176359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	287498	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	239115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	88876	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	108137	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
35) Dibromofluoromethane	5.49	113	86682	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
50) Toluene-d8	8.71	98	332232	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	11.14	95	103252	41.29	ug/l	0.00
Spiked Amount			Recovery	=	82.58%	

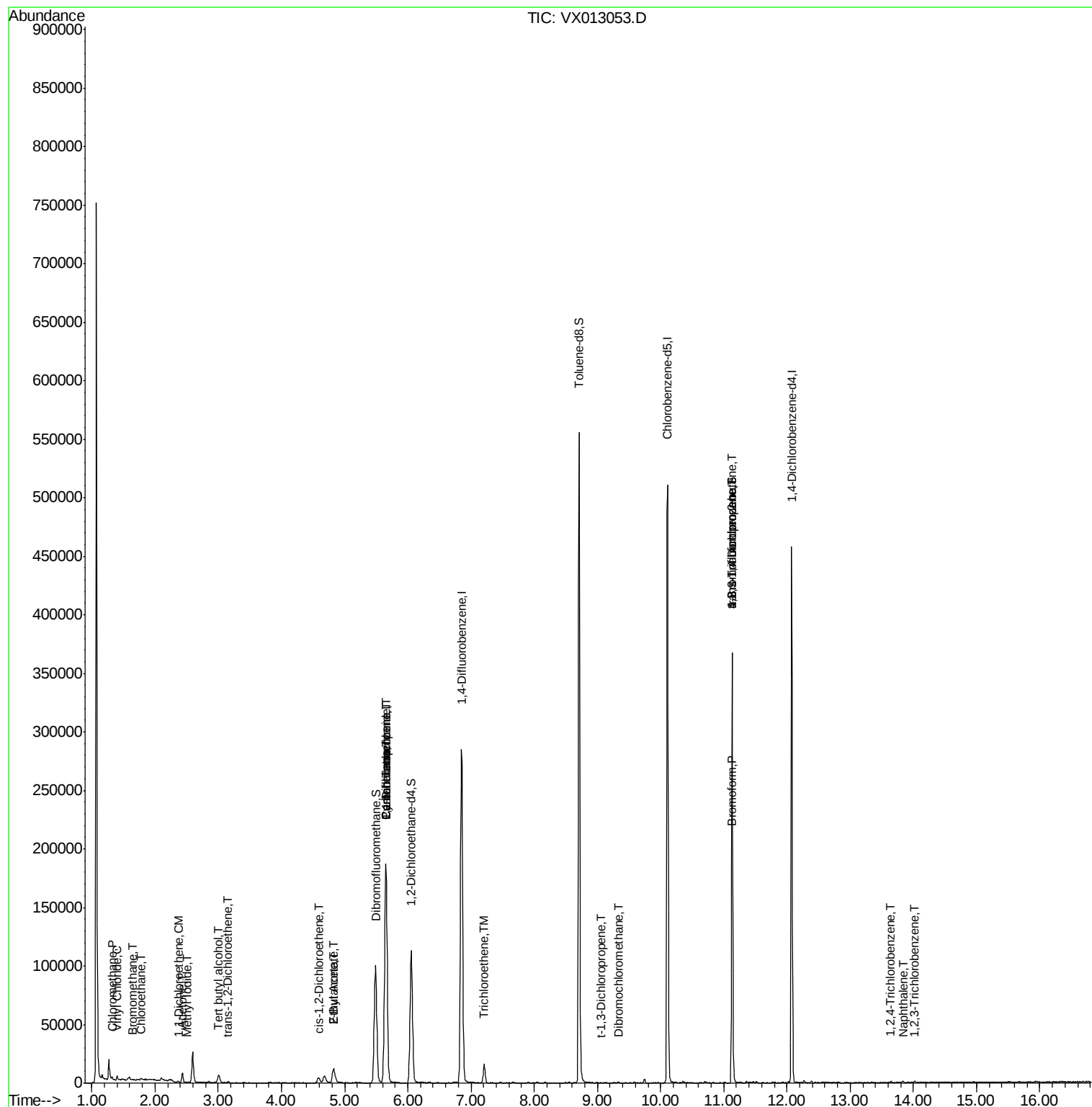
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1397	0.714	ug/l	96
4) Vinyl Chloride	1.40	62	2224	1.101	ug/l	96
5) Bromomethane	1.65	94	431	0.513	ug/l	89
6) Chloroethane	1.76	64	1084	1.240	ug/l #	43
10) Methyl Iodide	2.50	142	470	5.293	ug/l #	69
11) Tert butyl alcohol	3.01	59	4780	8.180	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	401	0.225	ug/l #	68
16) Acetone	2.44	43	8524	7.336	ug/l	99
21) trans-1,2-Dichloroethene	3.15	96	398	0.208	ug/l #	86
25) 2-Butanone	4.82	43	22757	14.118	ug/l #	49
27) cis-1,2-Dichloroethene	4.58	96	2675	1.215	ug/l #	72
31) Cyclohexane	5.65	56	3961	1.238	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13615	5.386	ug/l #	50
37) Ethyl Acetate	4.82	43	23017	8.143	ug/l	98
38) Carbon Tetrachloride	5.65	117	18482	7.512	ug/l #	16
44) Trichloroethene	7.21	130	6423	3.103	ug/l	92
53) t-1,3-Dichloropropene	9.04	75	41	2.182	ug/l #	42
60) Dibromochloromethane	9.33	129	84	1.895	ug/l #	10
71) Bromoform	11.12	173	43	3.162	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	51581	26.167	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	51581	65.875	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	415	0.236	ug/l #	76
95) Naphthalene	13.84	128	1226	0.201	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.01	180	422	0.233	ug/l #	83

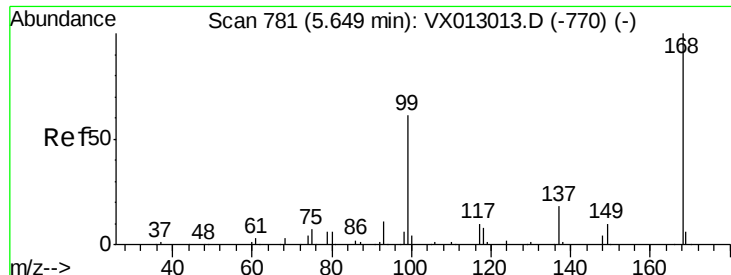
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 11 09:48:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

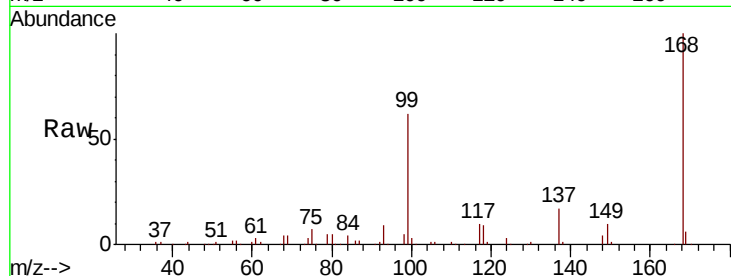
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 176359

Ion Ratio Lower Upper

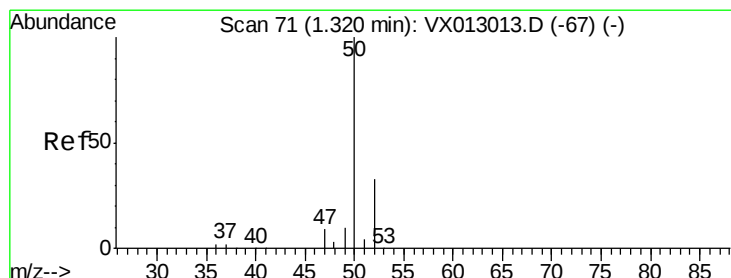
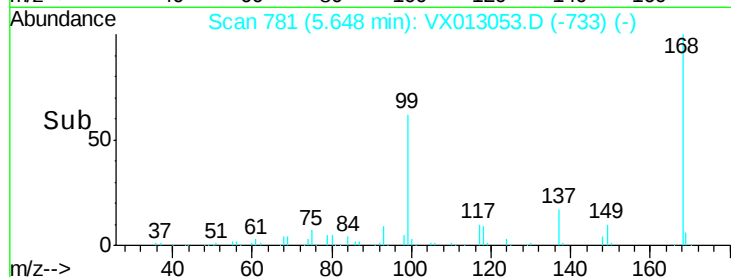
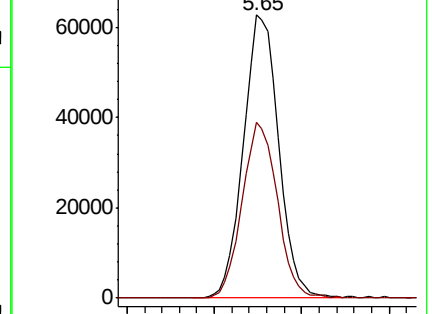
168 100

99 62.0 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.714 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013053.D

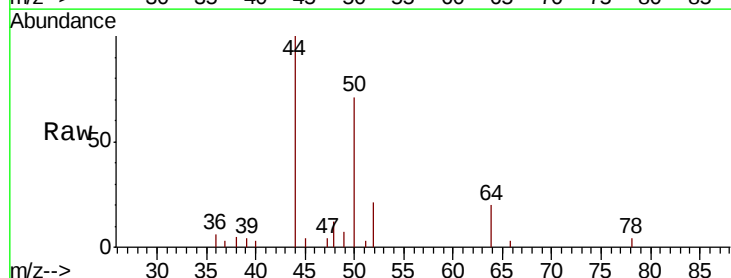
Acq: 14 Oct 2019 15:43

Tgt Ion: 50 Resp: 1397

Ion Ratio Lower Upper

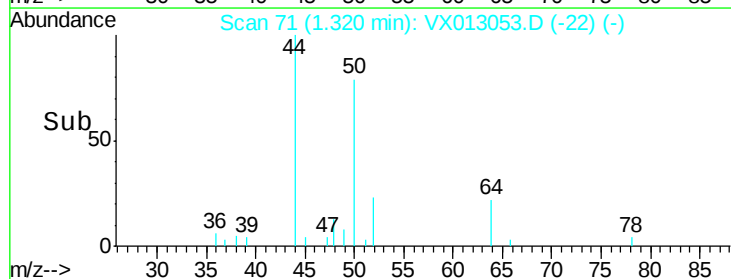
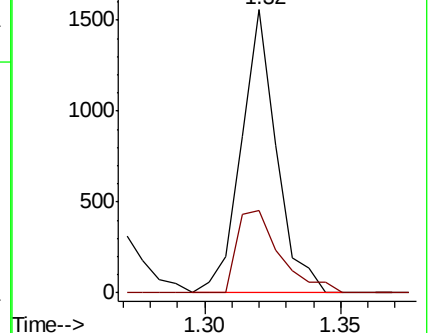
50 100

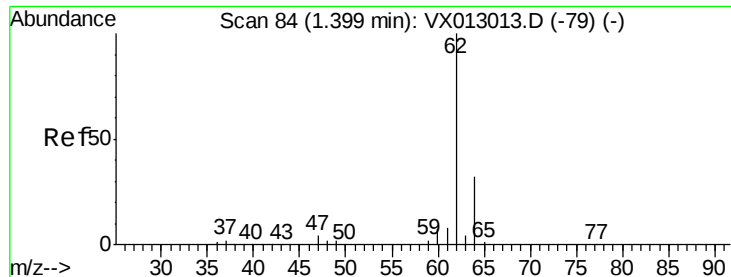
52 29.2 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.101 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

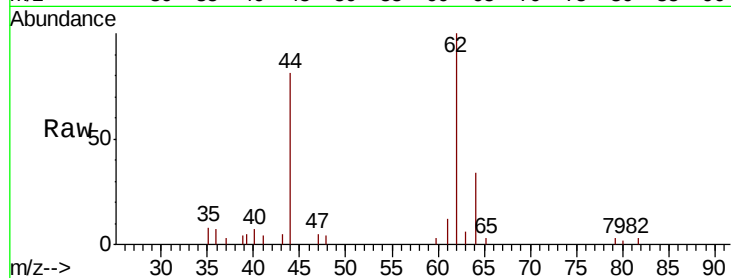
ClientSampled :

Tot Ion: 62 Resp: 2224

Ion Ratio Lower Upper

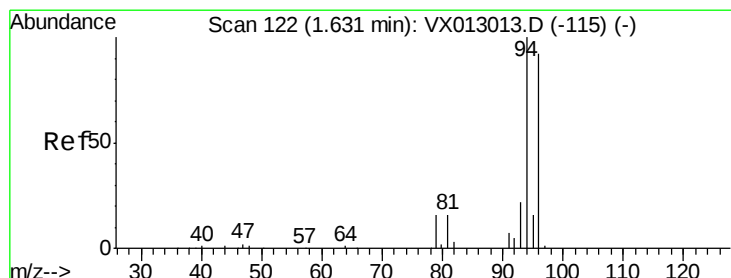
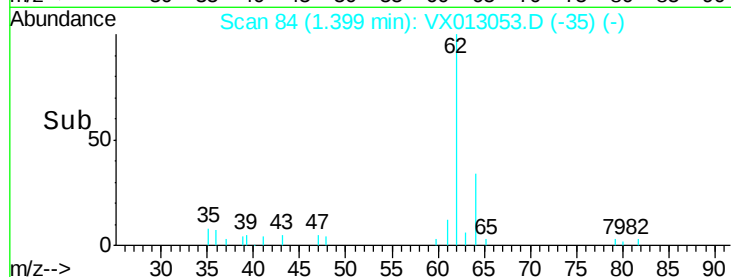
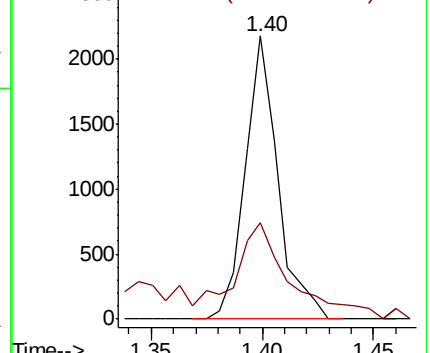
62 100

64 29.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.513 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013053.D

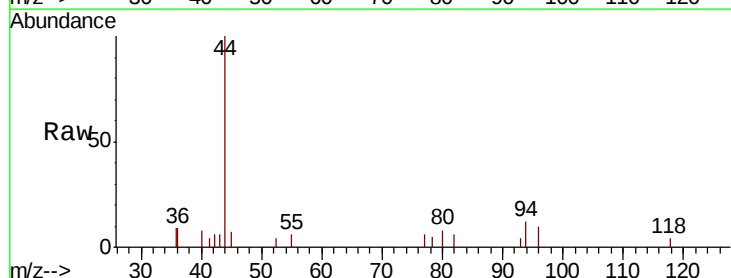
Acq: 14 Oct 2019 15:43

Tgt Ion: 94 Resp: 431

Ion Ratio Lower Upper

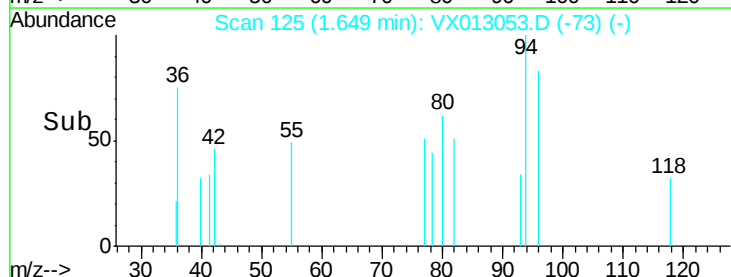
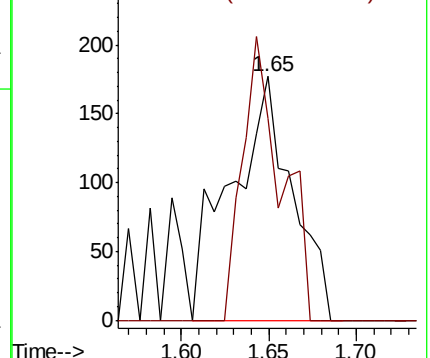
94 100

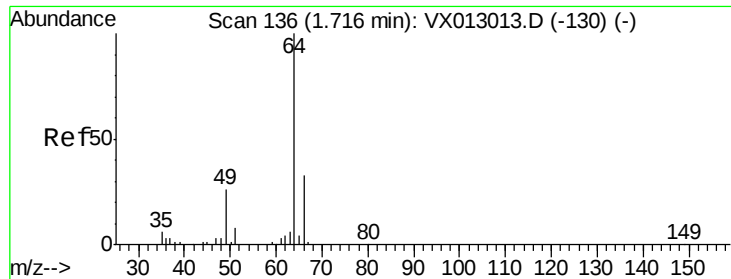
96 83.1 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.240 ug/l

RT: 1.76 min Scan# 144

Delta R.T. 0.05 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

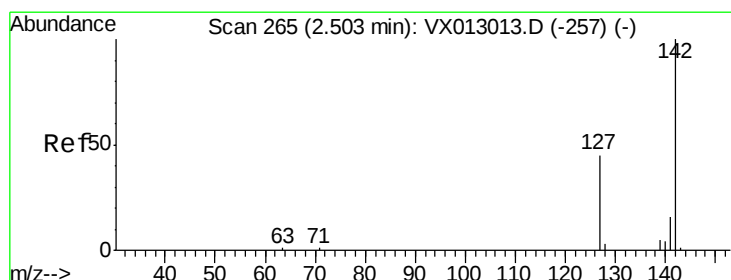
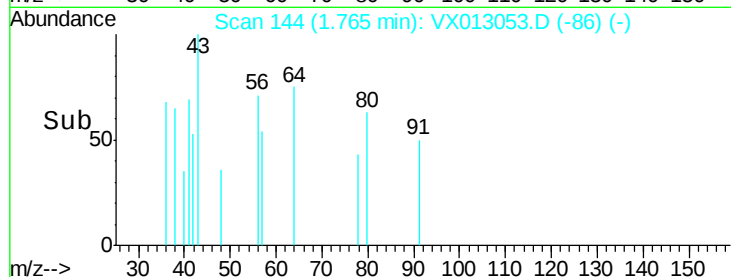
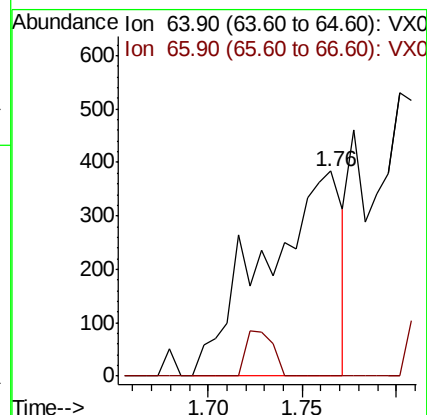
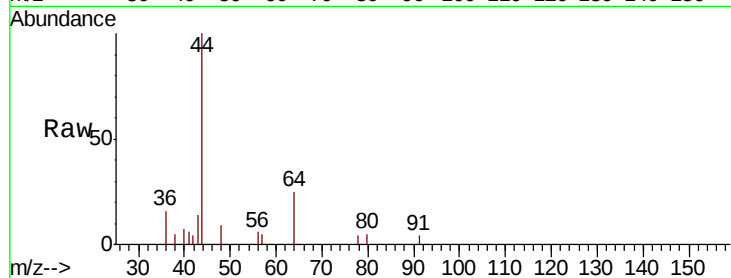
ClientSampled :

Tot Ion: 64 Resp: 1084

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.293 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

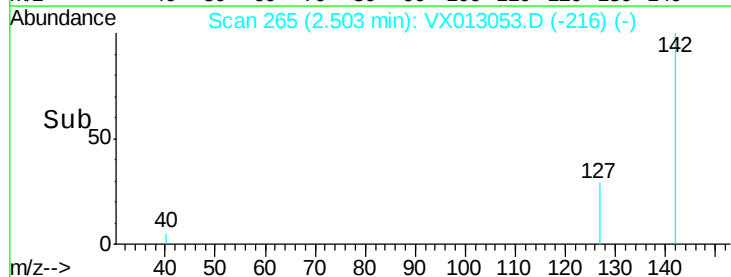
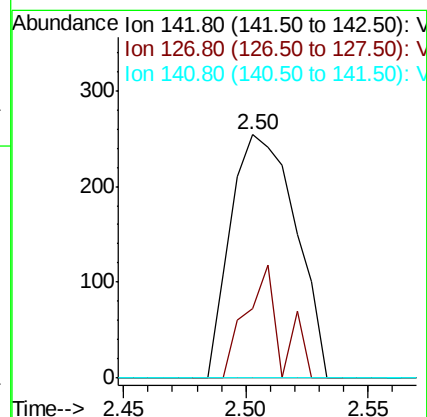
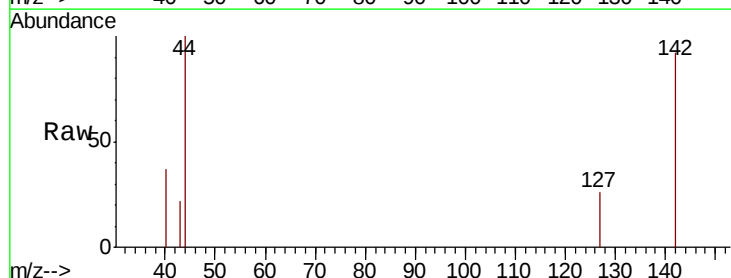
Tgt Ion: 142 Resp: 470

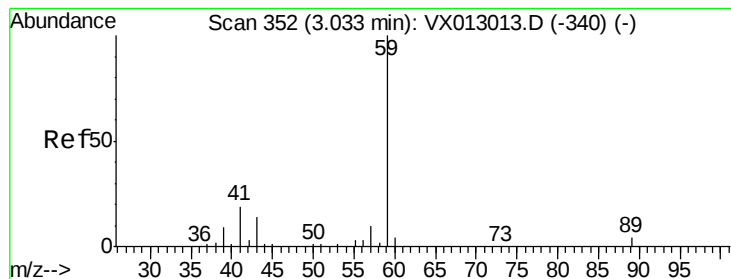
Ion Ratio Lower Upper

142 100

127 24.9 34.9 52.3#

141 0.0 11.6 17.4#



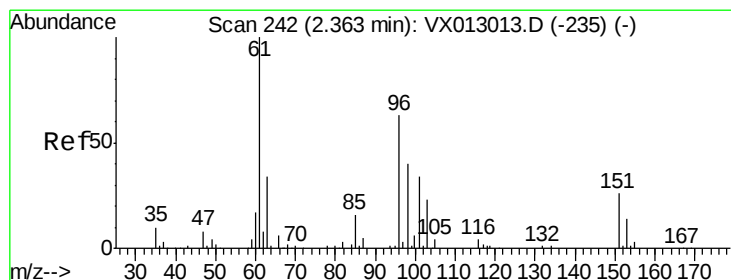
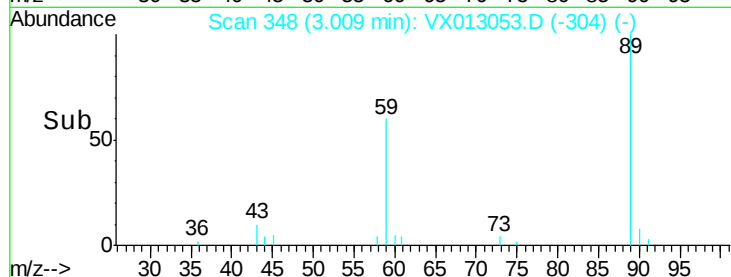
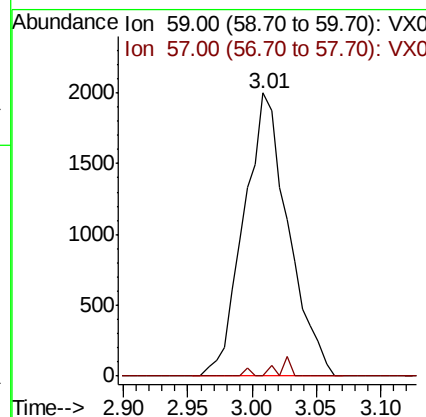
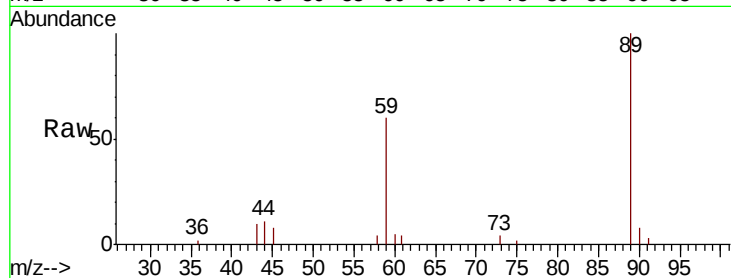


#11

Tert butvl alcohol
 Concen: 8.180 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX013053.D
 Acq: 14 Oct 2019 15:43

Instrument :
 MSVOA_X
 ClientSampled :

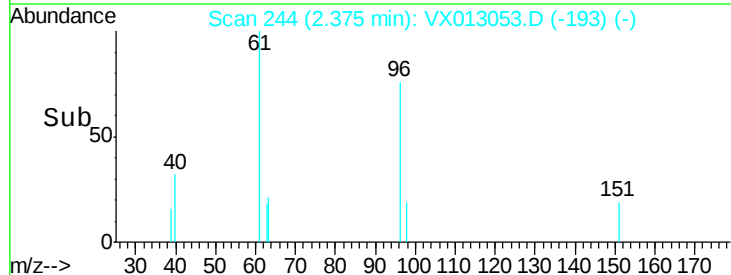
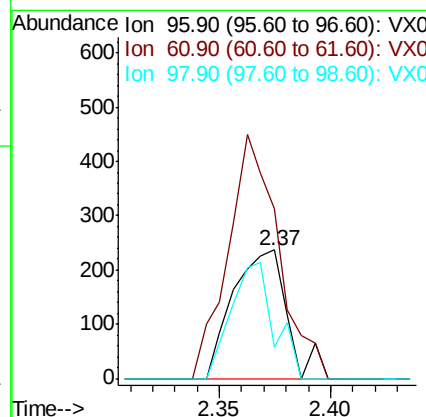
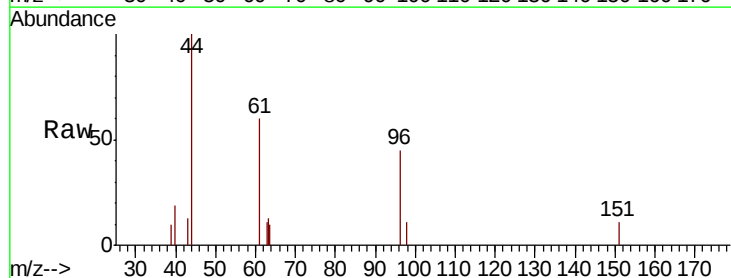
Tot Ion: 59 Resp: 4780
 Ion Ratio Lower Upper
 59 100
 57 0.4 8.3 12.5#

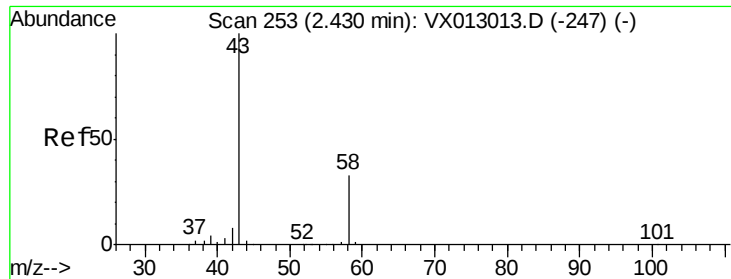


#12

1,1-Dichloroethene
 Concen: 0.225 ug/l
 RT: 2.37 min Scan# 244
 Delta R.T. 0.01 min
 Lab File: VX013053.D
 Acq: 14 Oct 2019 15:43

Tgt Ion: 96 Resp: 401
 Ion Ratio Lower Upper
 96 100
 61 132.1 132.2 198.4#
 98 24.5 50.5 75.7#





#16

Acetone

Concen: 7.336 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

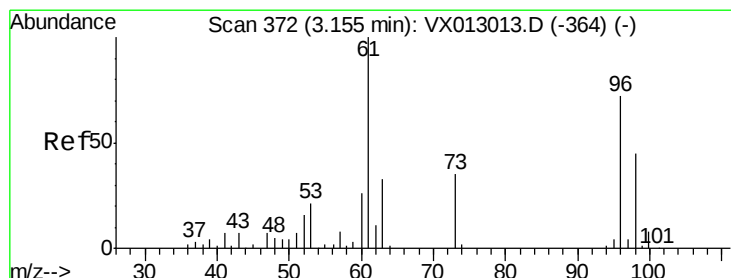
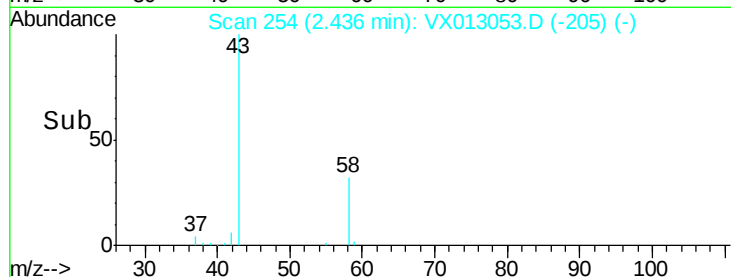
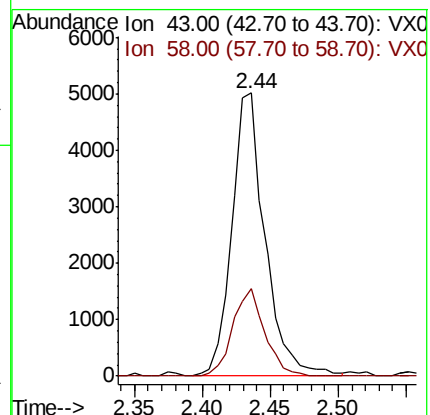
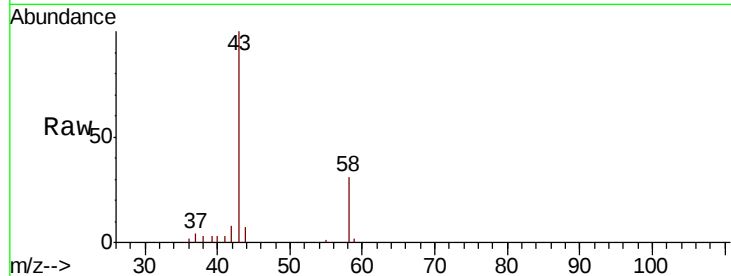
ClientSampled :

Tot Ion: 43 Resp: 8524

Ion Ratio Lower Upper

43 100

58 31.1 25.4 38.2



#21

trans-1,2-Dichloroethene

Concen: 0.208 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

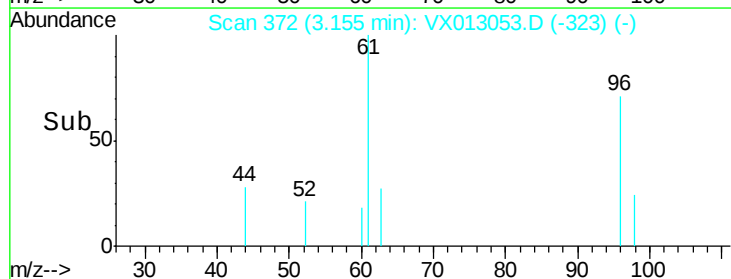
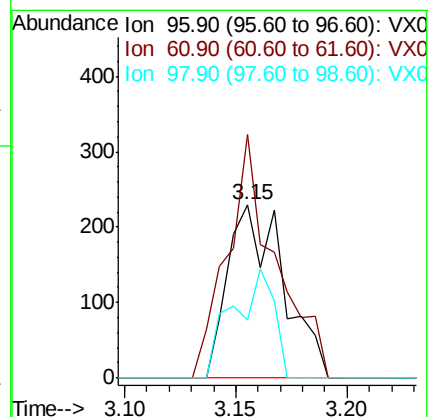
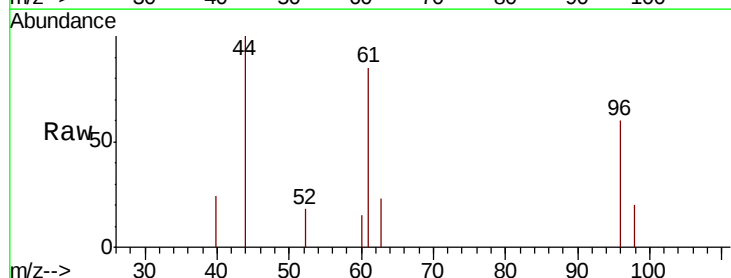
Tgt Ion: 96 Resp: 398

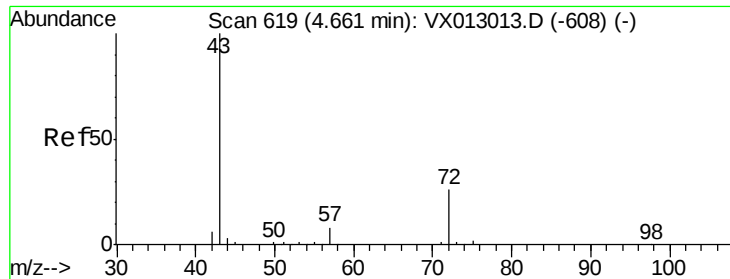
Ion Ratio Lower Upper

96 100

61 140.4 110.4 165.6

98 33.0 51.5 77.3#





#25

2-Butanone

Concen: 14.118 ug/l

RT: 4.82 min Scan# 645

Delta R.T. 0.16 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

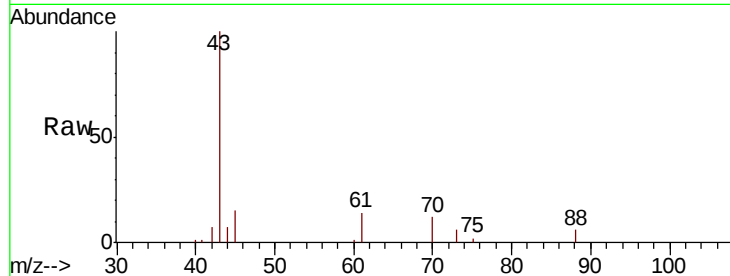
ClientSampled :

Tot Ion: 43 Resp: 22757

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.82

8000

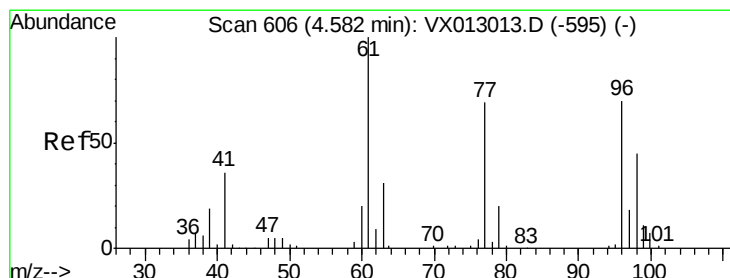
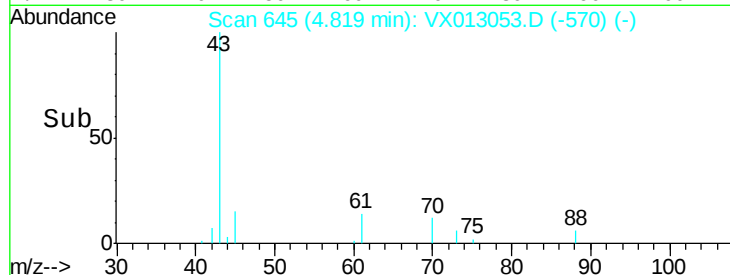
6000

4000

2000

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.215 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

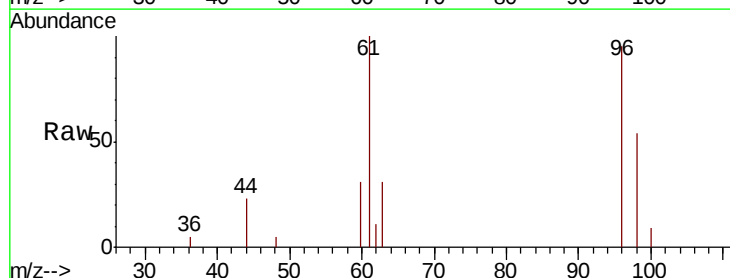
Tgt Ion: 96 Resp: 2675

Ion Ratio Lower Upper

96 100

61 149.9 0.0 290.6

98 0.0 0.0 128.8



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

2000

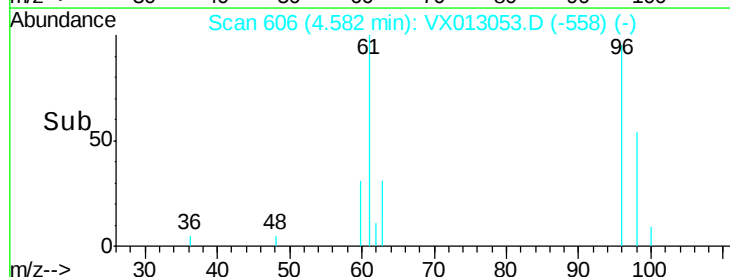
1500

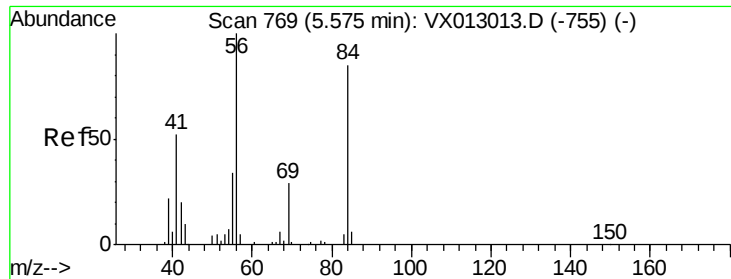
1000

500

0

Time-->

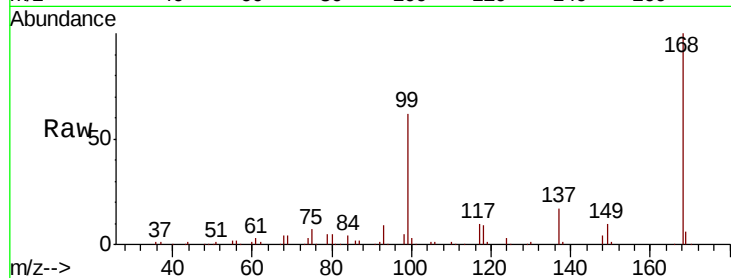




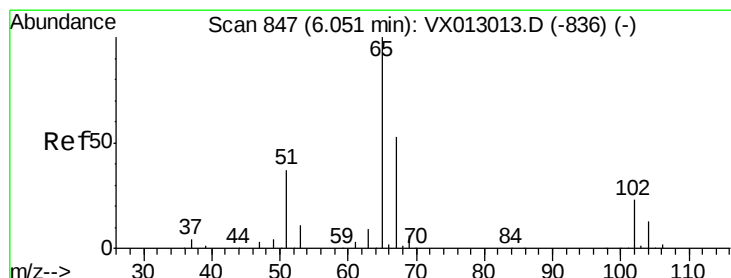
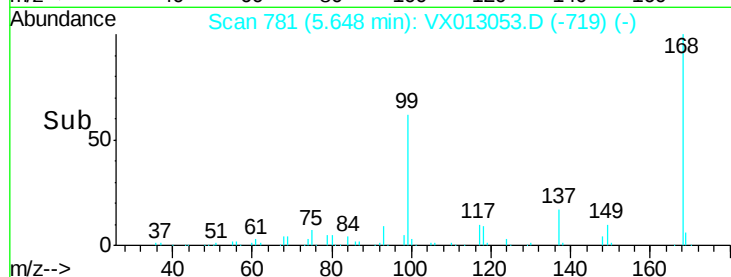
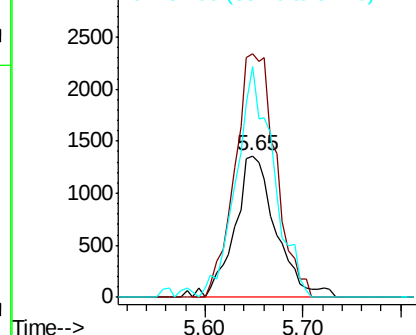
#31
Cyclohexane
Concen: 1.238 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3961
Ion Ratio Lower Upper
56 100
69 171.6 25.2 37.8#
84 162.9 71.3 106.9#

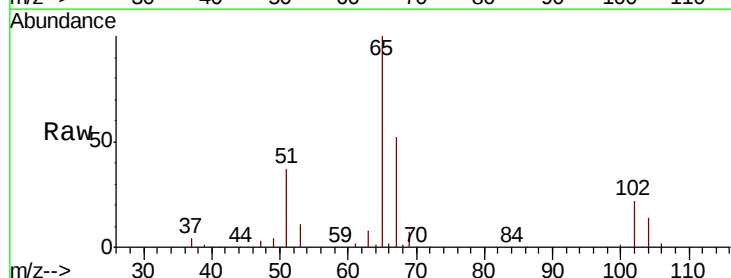


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

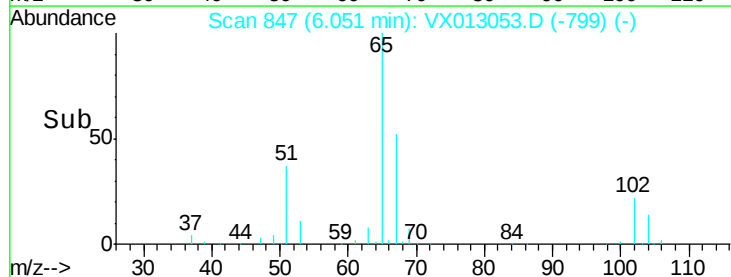
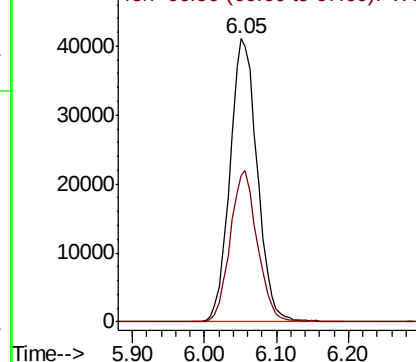


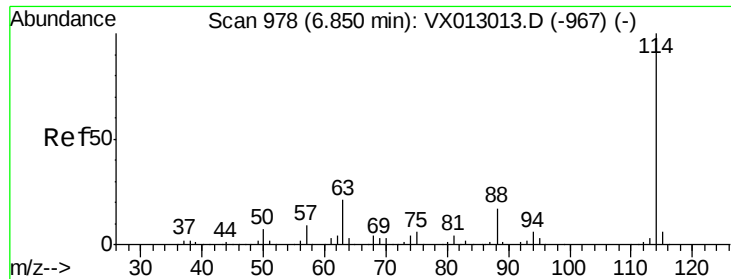
#33
1,2-Dichloroethane-d4
Concen: 49.058 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion: 65 Resp: 108137
Ion Ratio Lower Upper
65 100
67 53.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

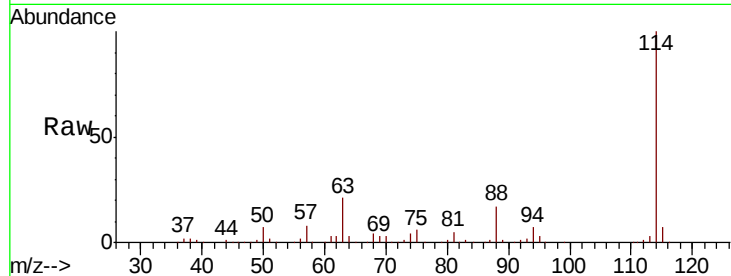




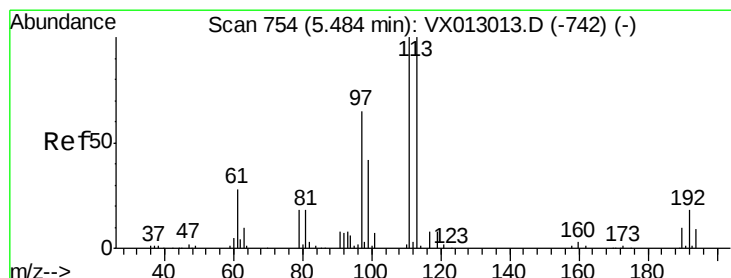
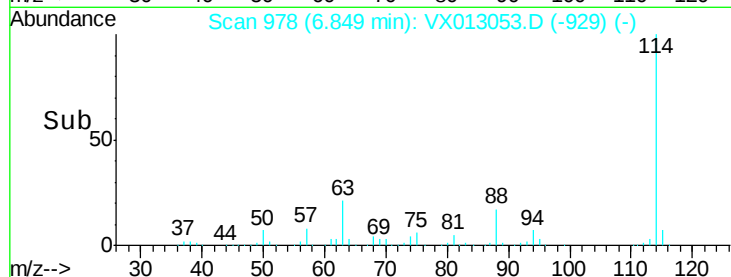
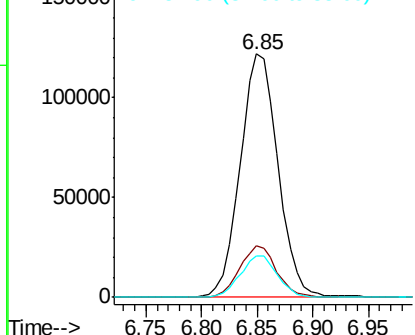
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 287498
Ion Ratio Lower Upper
114 100
63 21.0 0.0 40.8
88 17.0 0.0 33.8

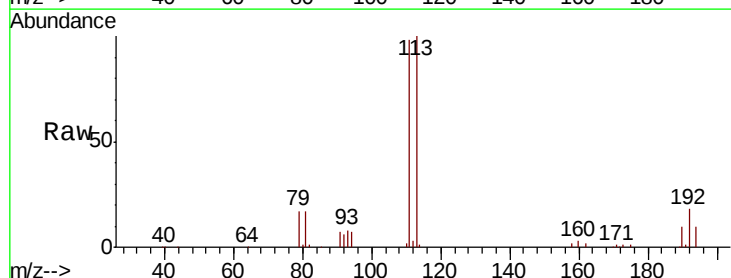


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

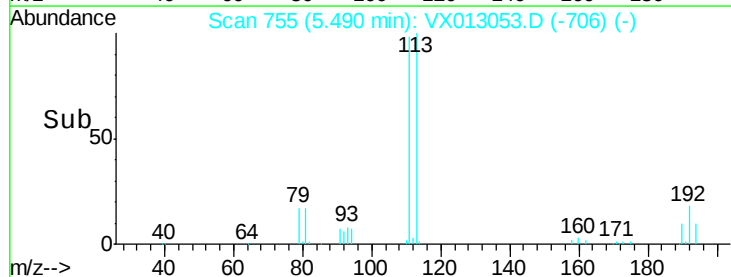
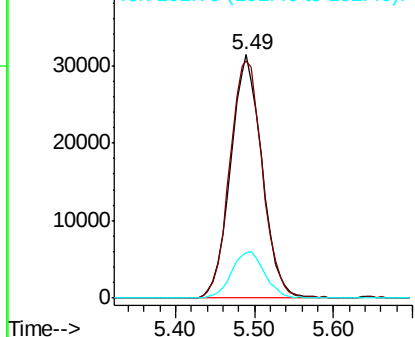


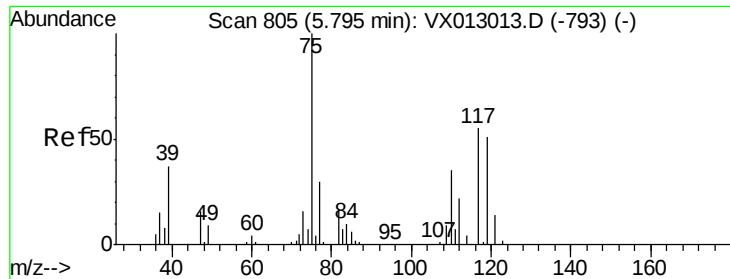
#35
Dibromofluoromethane
Concen: 52.532 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion:113 Resp: 86682
Ion Ratio Lower Upper
113 100
111 101.8 83.2 124.8
192 19.9 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: 5.386 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

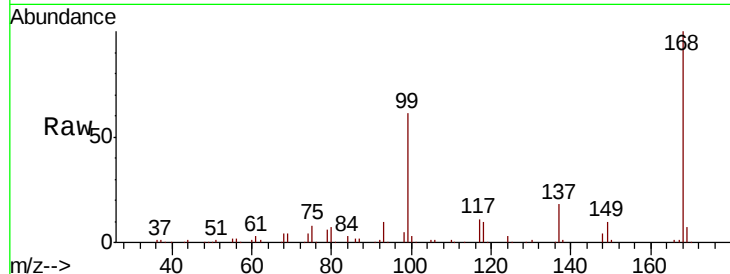
Tot Ion: 75 Resp: 13615

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

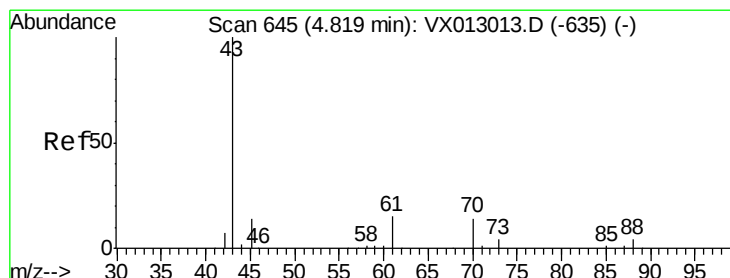
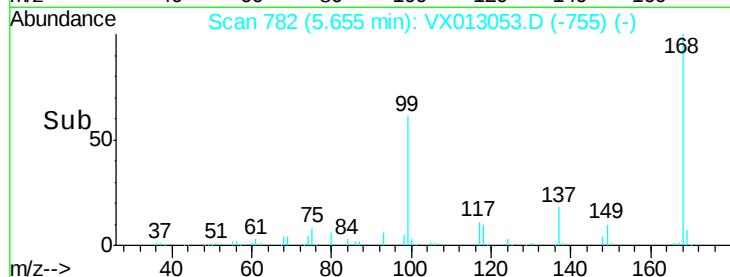
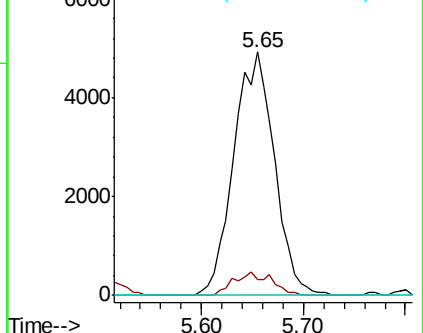
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 8.143 ug/l

RT: 4.82 min Scan# 645

Delta R.T. -0.00 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

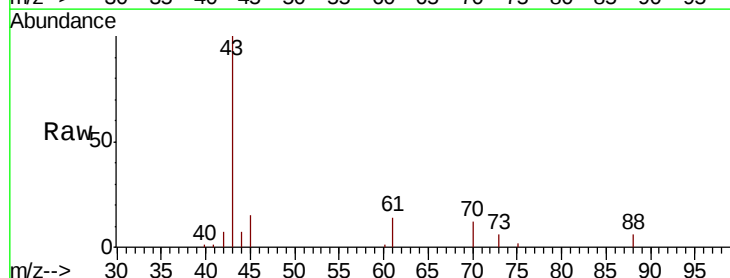
Tgt Ion: 43 Resp: 23017

Ion Ratio Lower Upper

43 100

61 15.2 11.4 17.0

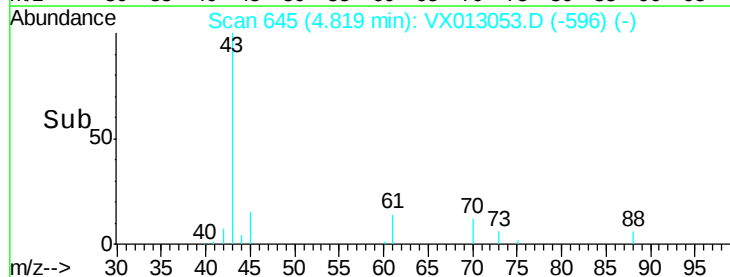
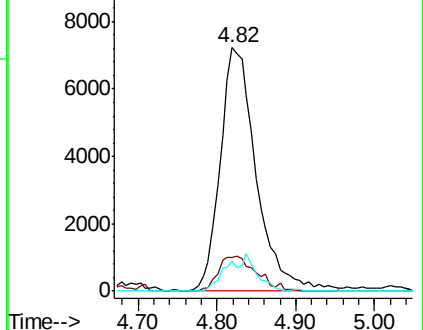
70 12.4 9.8 14.6

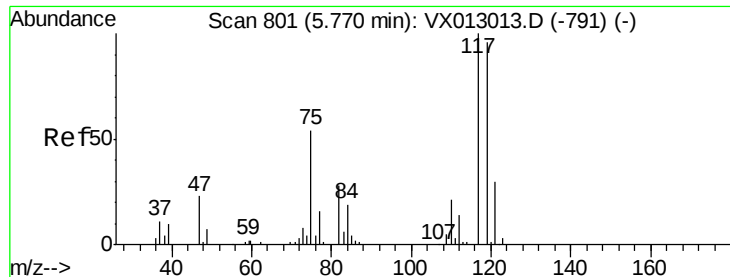


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

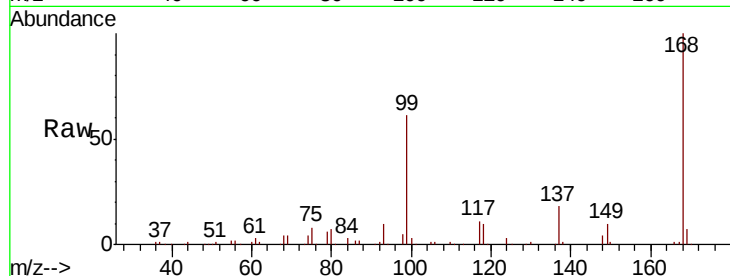




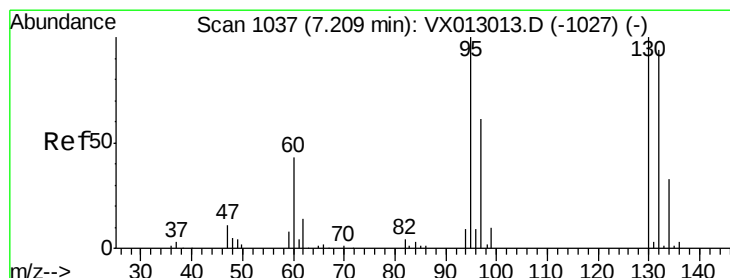
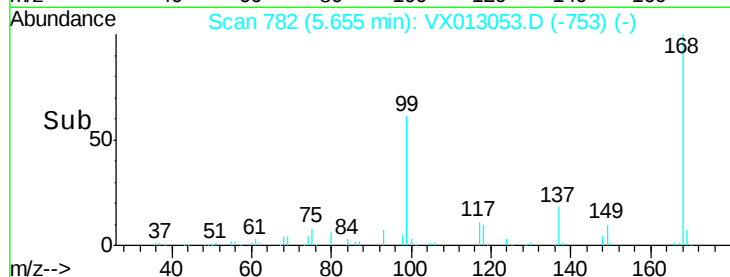
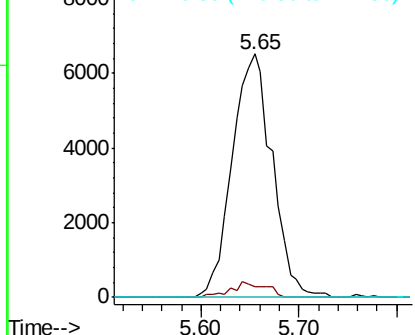
#38
Carbon Tetrachloride
Concen: 7.512 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 18482
Ion Ratio Lower Upper
117 100
119 4.1 74.5 111.7#
121 0.0 24.2 36.4#

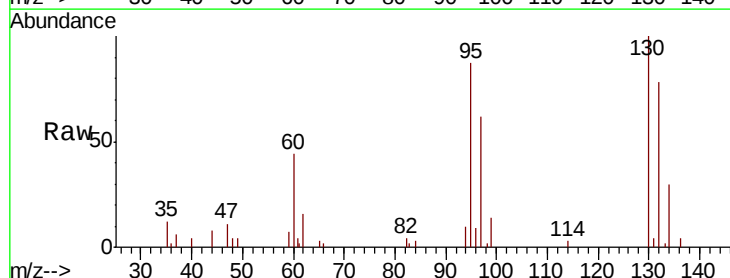


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

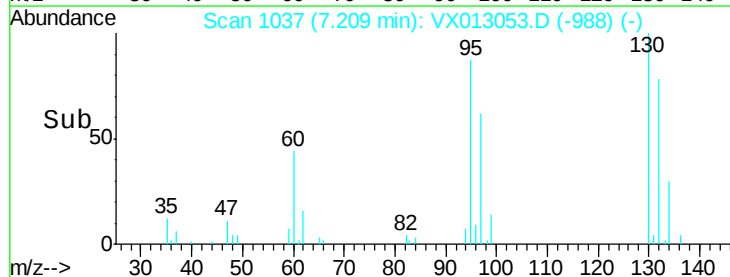
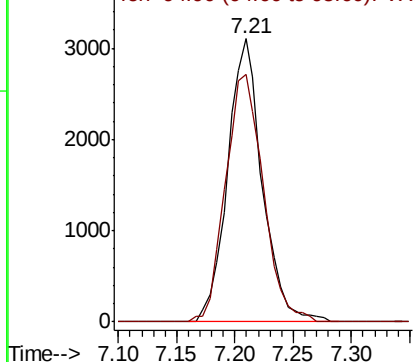


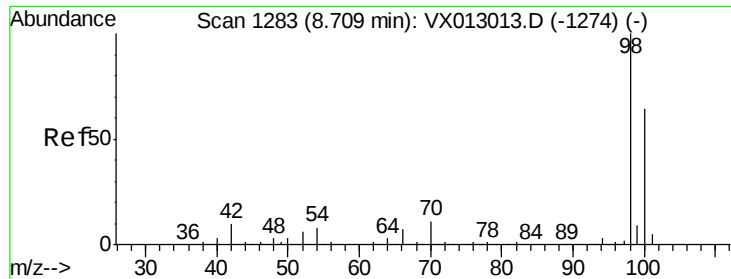
#44
Trichloroethene
Concen: 3.103 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion:130 Resp: 6423
Ion Ratio Lower Upper
130 100
95 87.2 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

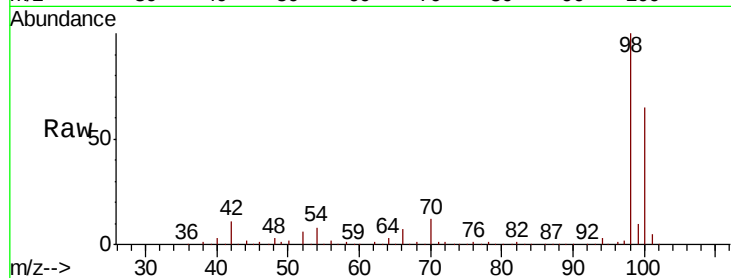




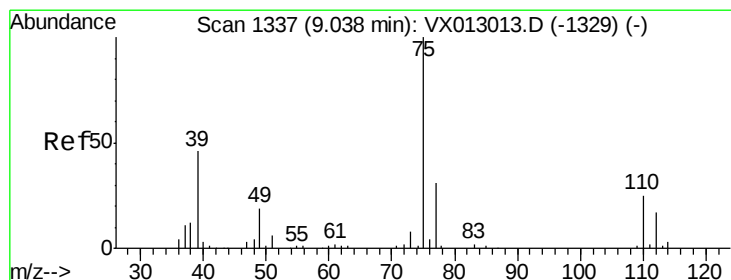
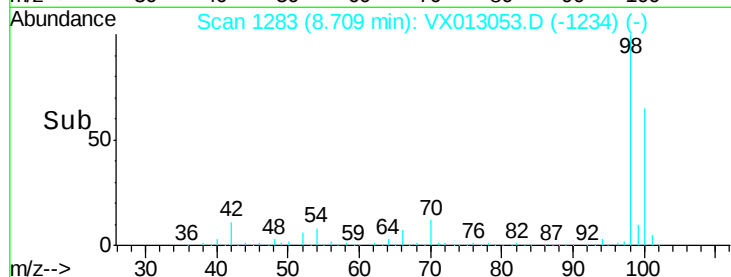
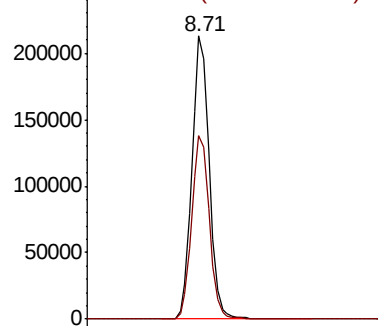
#50
Toluene-d8
Concen: 51.623 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 332232
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.2

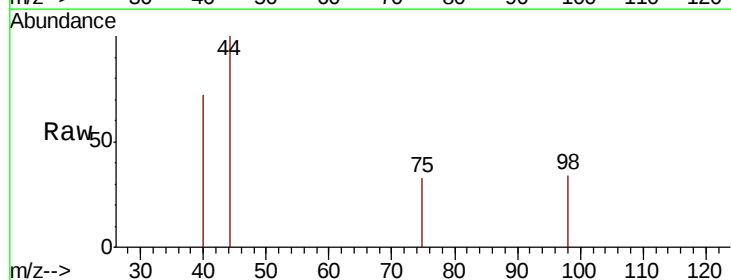


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

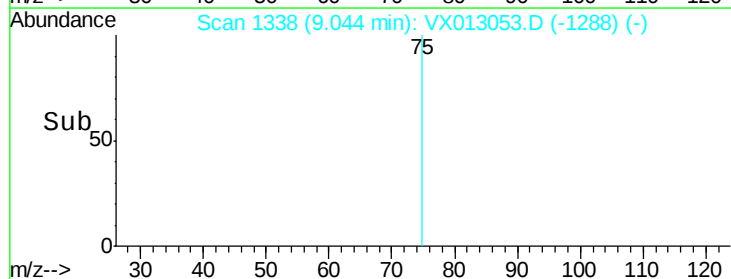
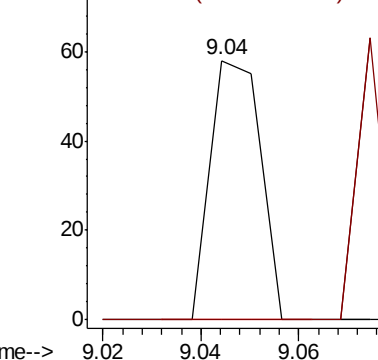


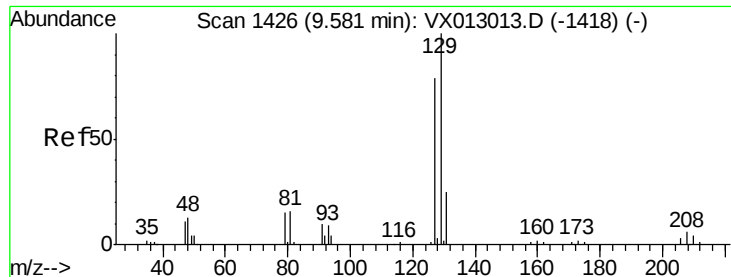
#53
t-1,3-Dichloropropene
Concen: 2.182 ug/l
RT: 9.04 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion: 75 Resp: 41
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0

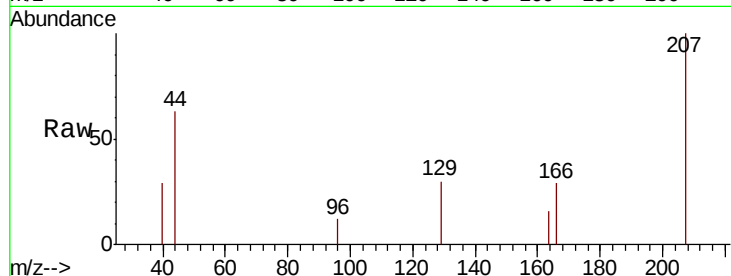




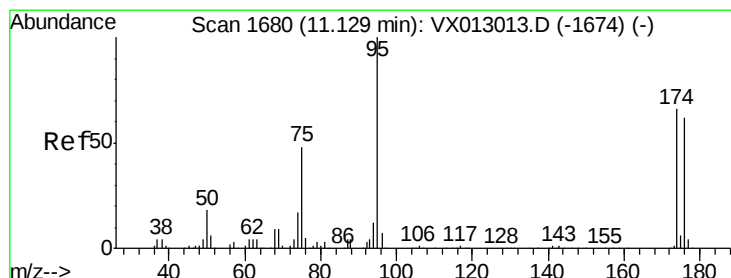
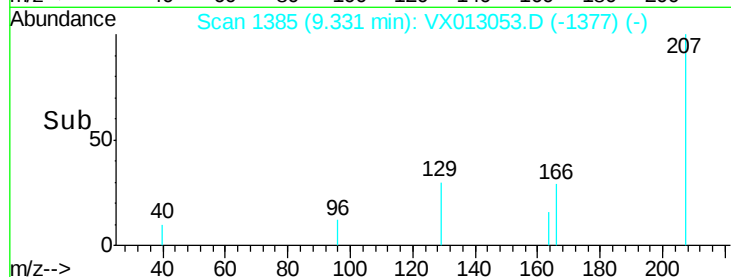
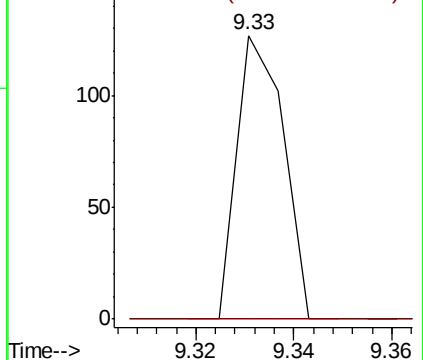
#60
Dibromochloromethane
Concen: 1.895 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 84
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

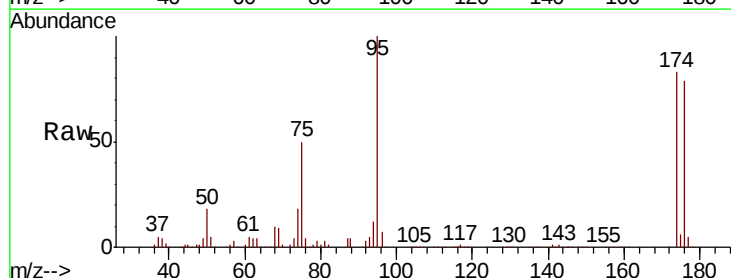


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

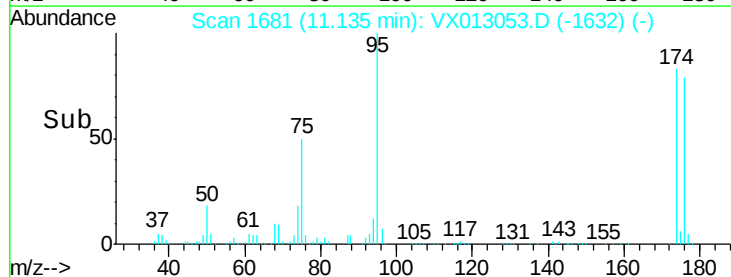
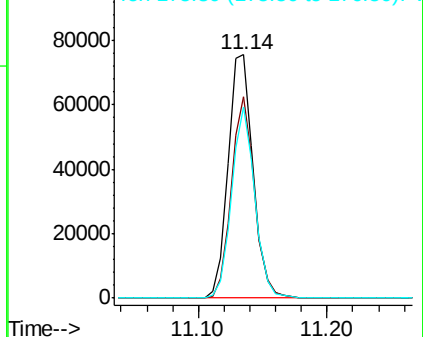


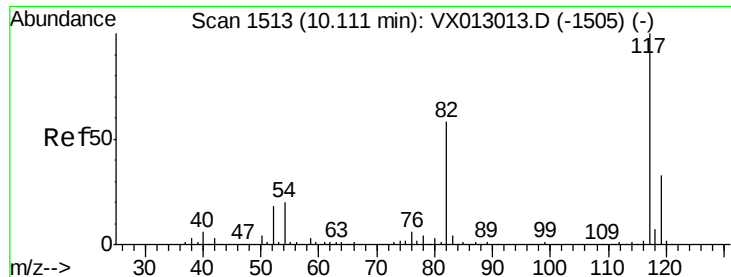
#62
4-Bromofluorobenzene
Concen: 41.290 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion: 95 Resp: 103252
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.4
176 72.5 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

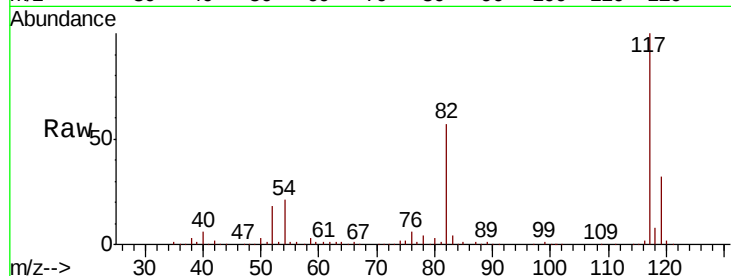




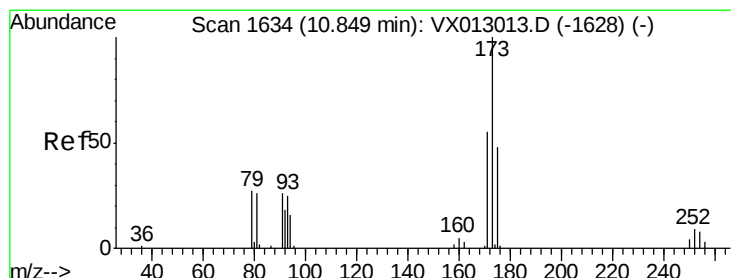
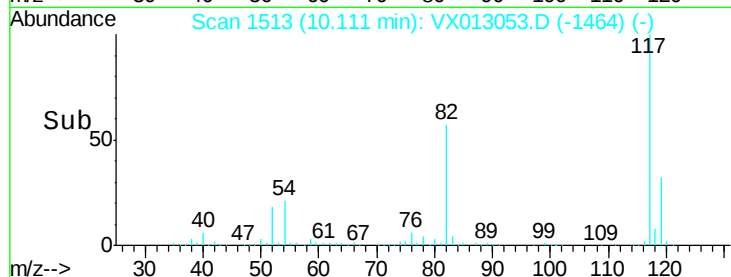
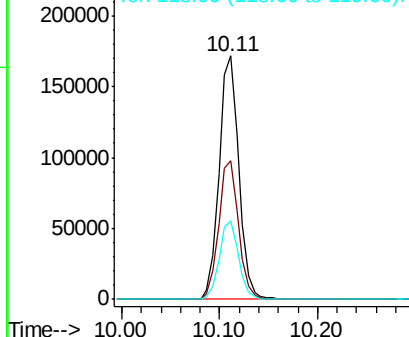
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 239115
Ion Ratio Lower Upper
117 100
82 56.8 44.1 66.1
119 32.4 25.8 38.8

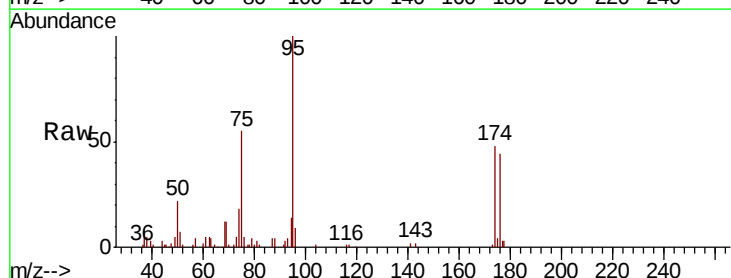


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

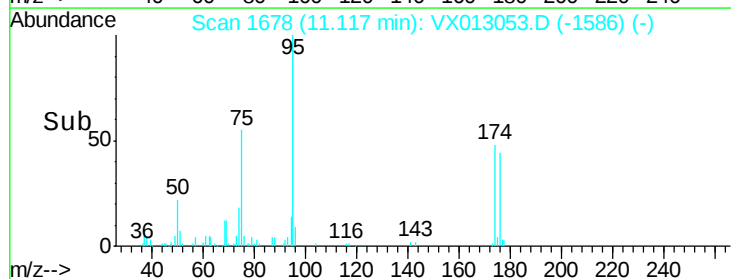
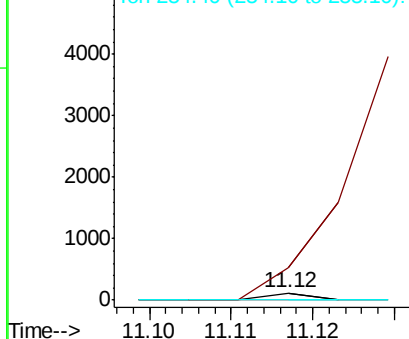


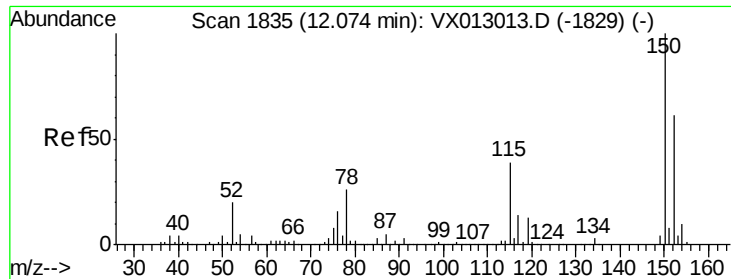
#71
Bromoform
Concen: 3.162 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion:173 Resp: 43
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

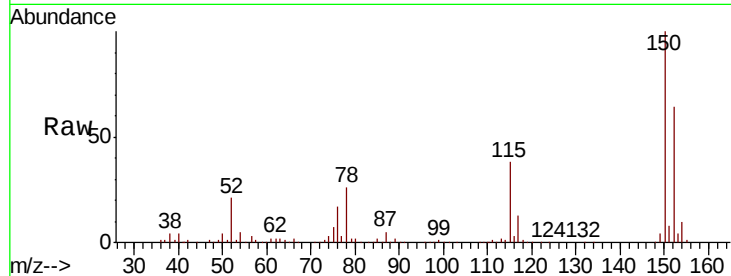
Tot Ion:152 Resp: 88876

Ion Ratio Lower Upper

152 100

115 62.4 44.5 133.5

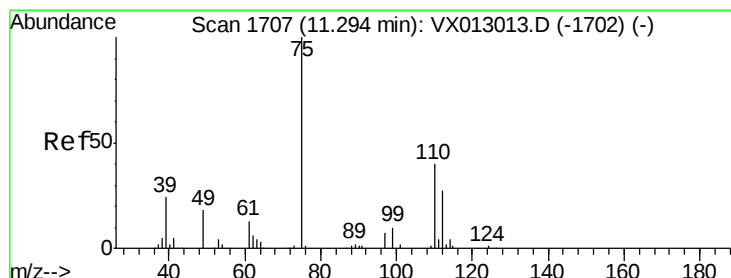
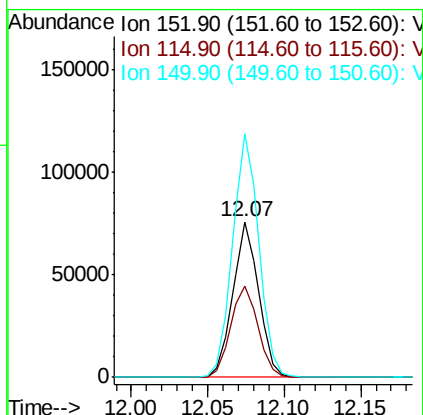
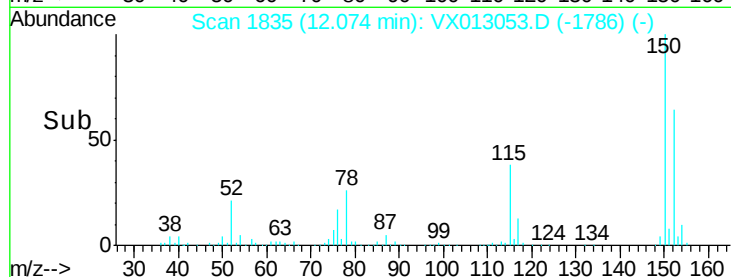
150 159.0 0.0 353.4



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: 26.167 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013053.D

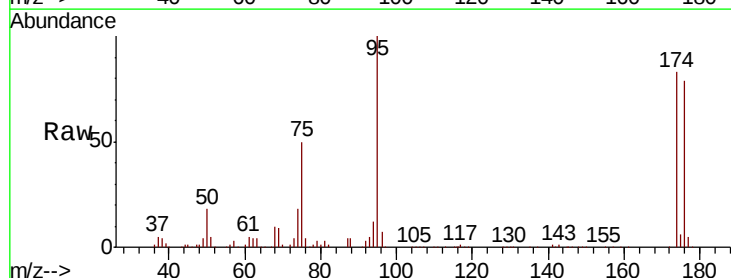
Acq: 14 Oct 2019 15:43

Tgt Ion: 75 Resp: 51581

Ion Ratio Lower Upper

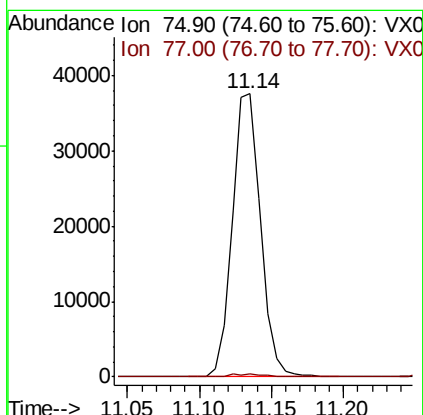
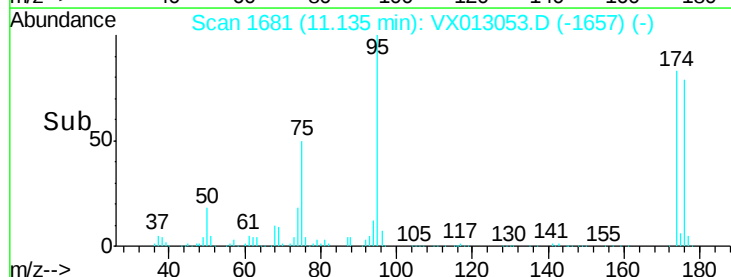
75 100

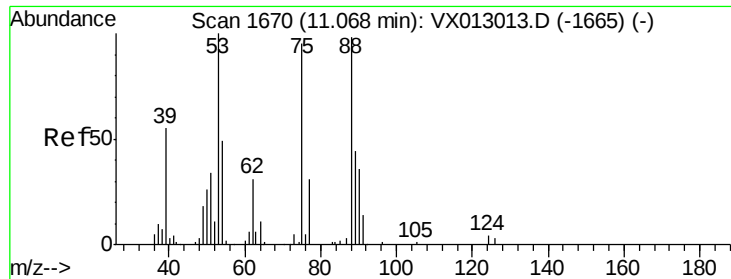
77 1.1 22.9 68.8#



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: 65.875 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

Instrument :

MSVOA_X

ClientSampleId :

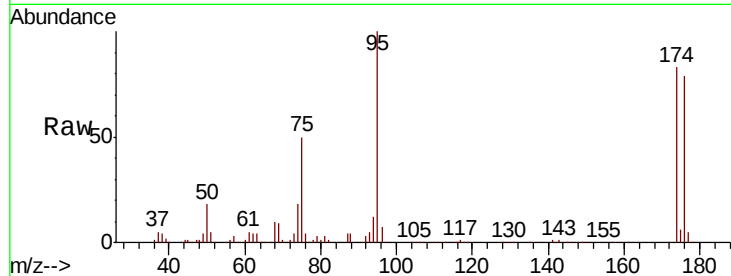
Tot Ion: 75 Resp: 51581

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

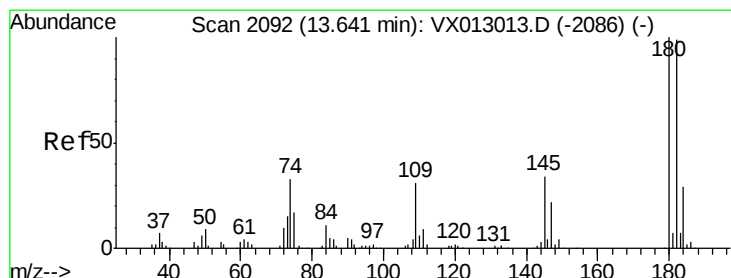
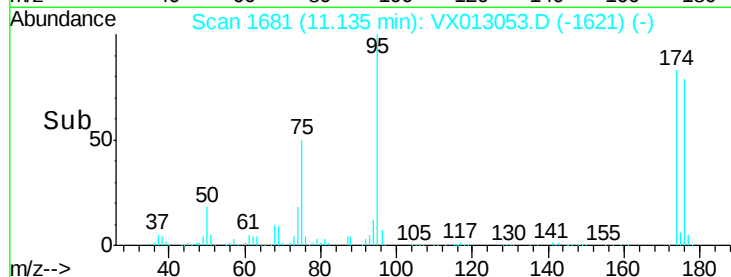
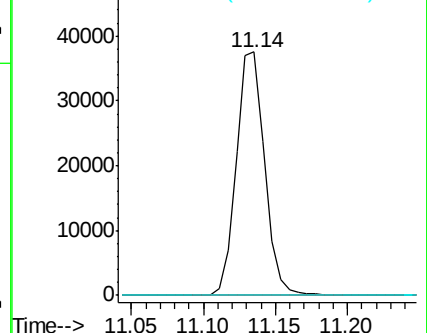
89 0.0 37.4 56.2#



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: 0.236 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013053.D

Acq: 14 Oct 2019 15:43

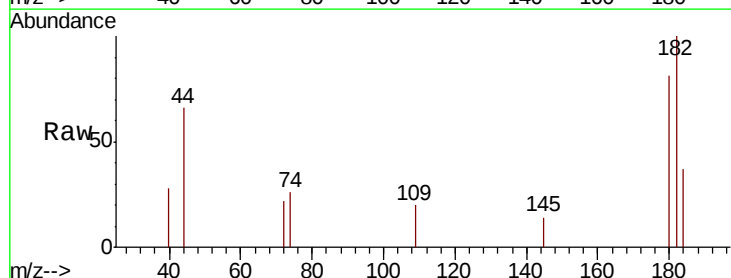
Tgt Ion:180 Resp: 415

Ion Ratio Lower Upper

180 100

182 105.5 46.8 140.4

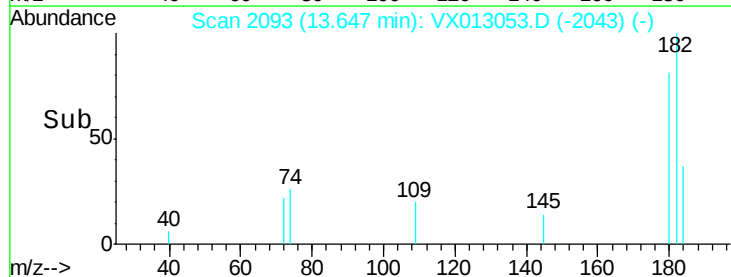
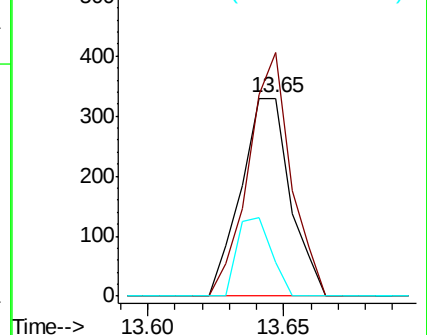
145 0.0 16.2 48.6#

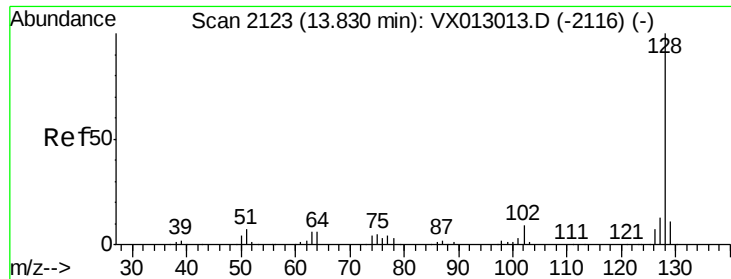


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

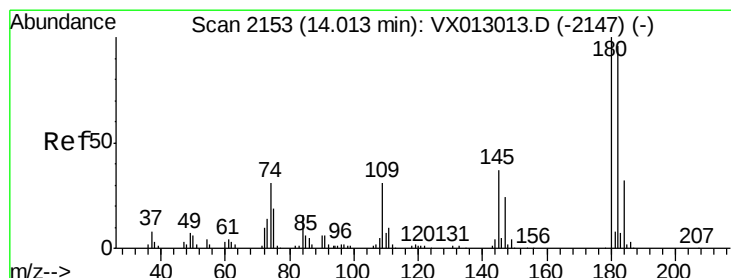
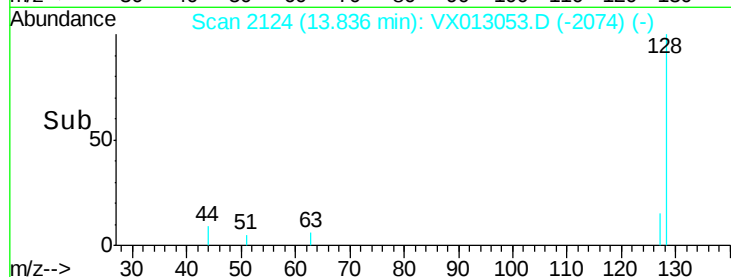
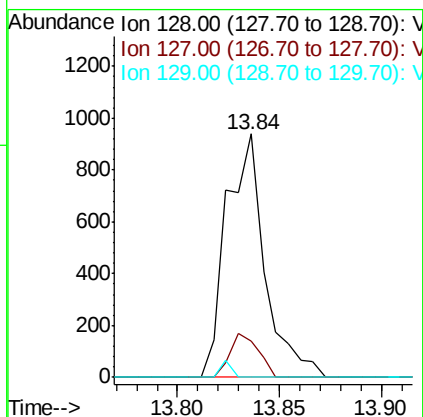
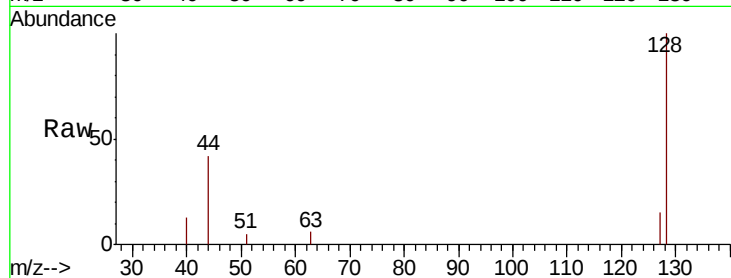




#95
Naphthalene
Concen: 0.201 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 1226
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 1.9 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.233 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VX013053.D
Acq: 14 Oct 2019 15:43

Tgt Ion:180 Resp: 422
Ion Ratio Lower Upper
180 100
182 95.7 47.5 142.5
145 0.0 17.4 52.3#

