

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015298.D
 Acq On : 16 Mar 2020 16:43
 Operator : JC/SP
 Sample : L1945-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20200312

Quant Time: Mar 17 07:42:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	331061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	543183	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	523476	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	263401	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	196437	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
35) Dibromofluoromethane	5.49	113	166522	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
50) Toluene-d8	8.71	98	635649	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.13	95	242246	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	

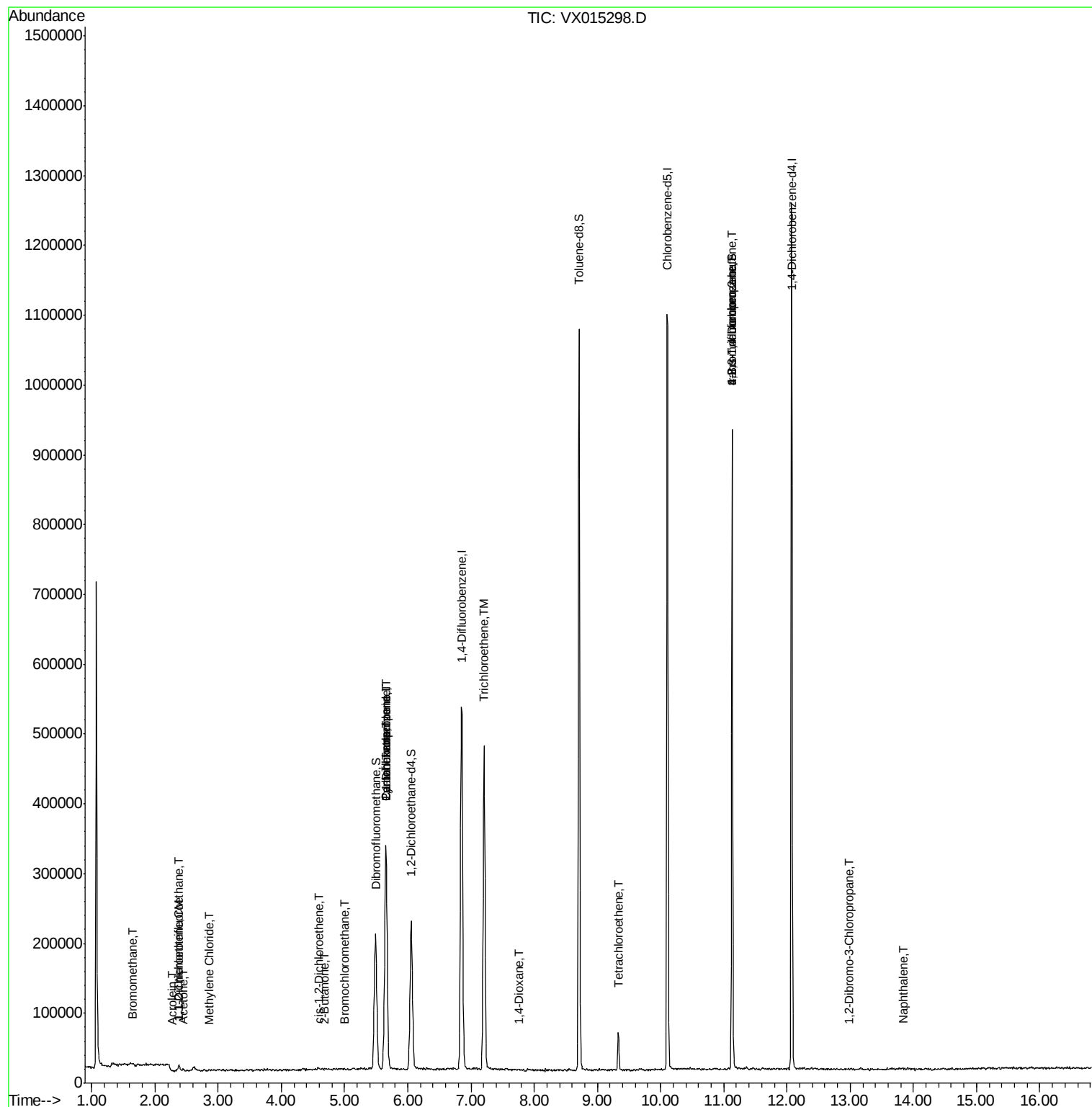
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	594	0.232	ug/l #	3
9) 1,1,2-Trichlorotrifluoroet	2.38	101	3407	1.093	ug/l	87
12) 1,1-Dichloroethene	2.37	96	796	0.247	ug/l #	65
13) Acrolein	2.28	56	277	0.433	ug/l	92
16) Acetone	2.44	43	3309	2.080	ug/l	98
20) Methylene Chloride	2.85	84	1052	0.283	ug/l #	44
25) 2-Butanone	4.69	43	672	0.289	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	1481	0.384	ug/l	69
28) Bromochloromethane	4.99	49	663	0.235	ug/l #	42
31) Cyclohexane	5.65	56	6262	1.132	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	22040	4.389	ug/l #	52
38) Carbon Tetrachloride	5.65	117	28019	5.911	ug/l #	15
44) Trichloroethene	7.21	130	187126	45.101	ug/l	96
49) 1,4-Dioxane	7.77	88	1149	12.742	ug/l #	6
64) Tetrachloroethene	9.33	164	11693	2.702	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	116907	22.251	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	116907	63.148	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	289	0.257	ug/l #	49
95) Naphthalene	13.84	128	807	1.465	ug/l #	55

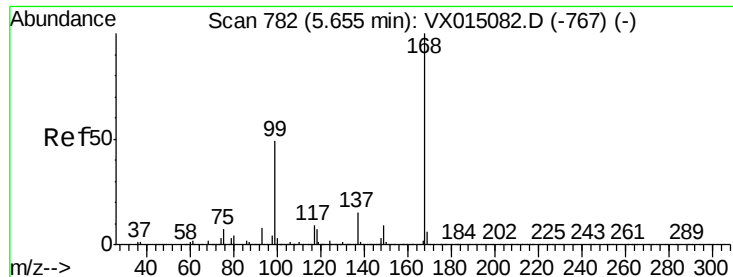
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
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: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

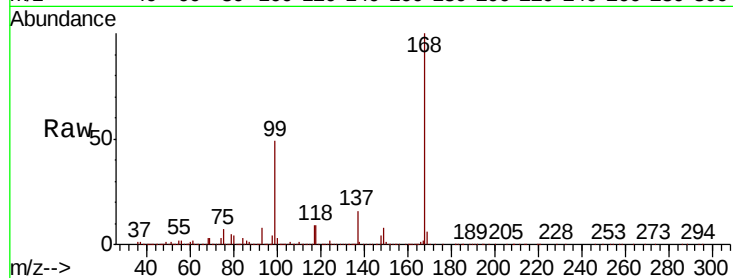
RE104D1-20200312

Tot Ion:168 Resp: 331061

Ion Ratio Lower Upper

168 100

99 49.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

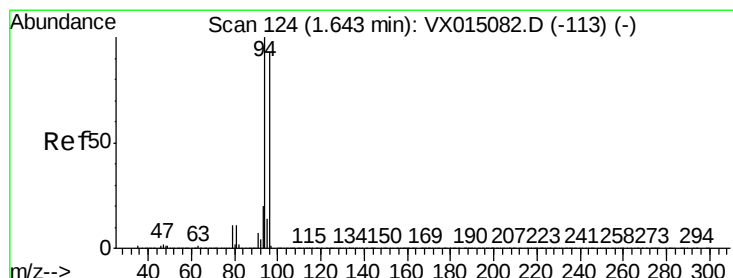
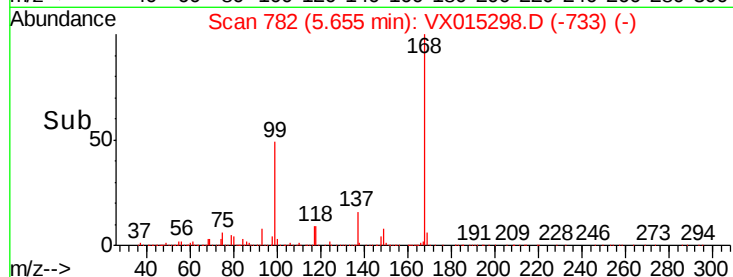
5.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.232 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015298.D

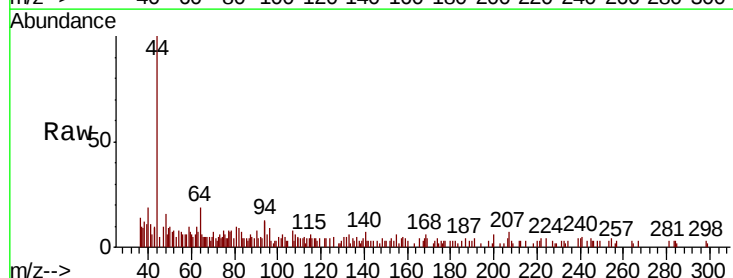
Acq: 16 Mar 2020 16:43

Tgt Ion: 94 Resp: 594

Ion Ratio Lower Upper

94 100

96 0.0 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

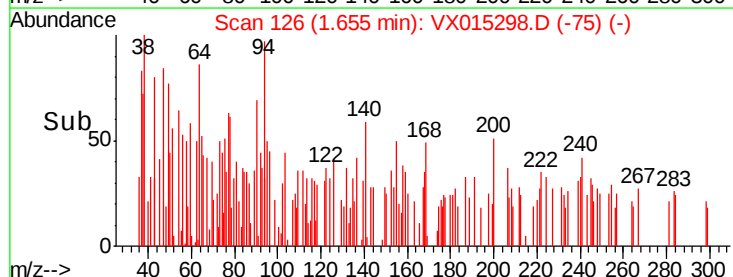
600

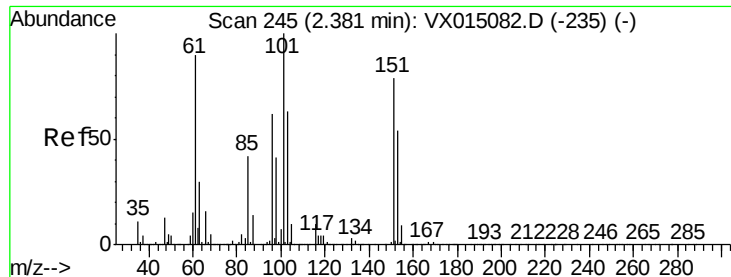
400

200

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.093 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20200312

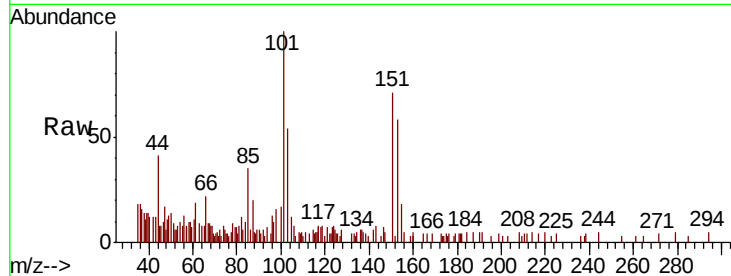
Tot Ion:101 Resp: 3407

Ion Ratio Lower Upper

101 100

85 45.5 33.7 50.5

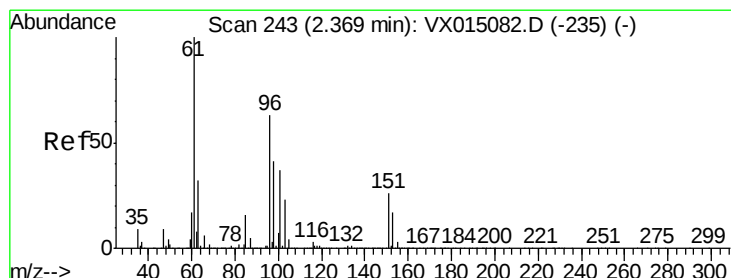
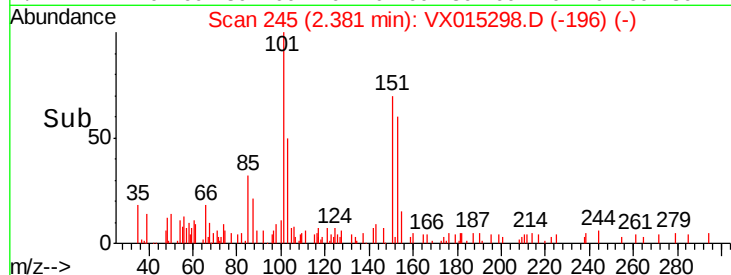
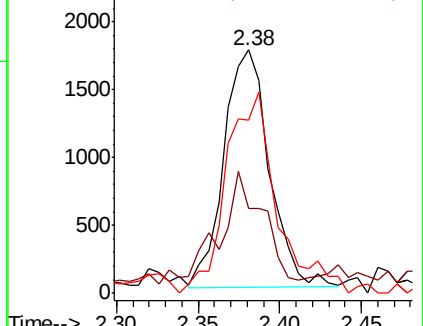
151 95.7 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.247 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

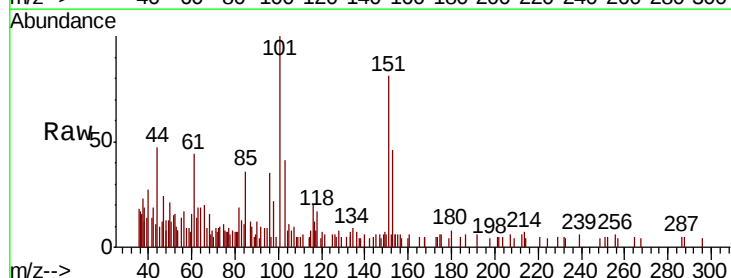
Tgt Ion: 96 Resp: 796

Ion Ratio Lower Upper

96 100

61 103.9 126.2 189.4#

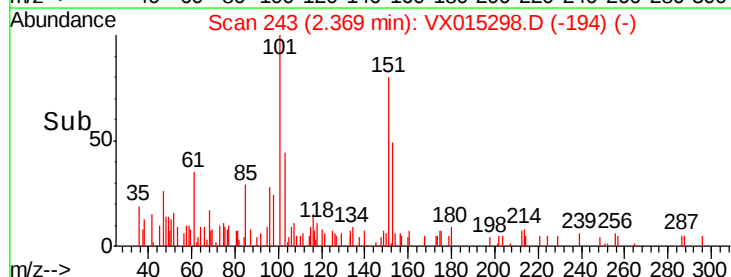
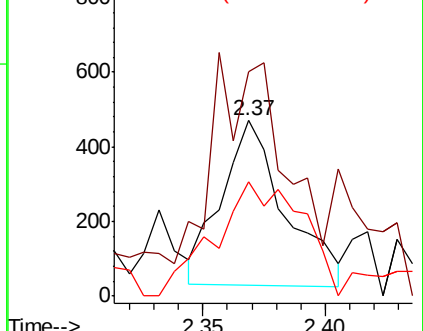
98 79.5 51.4 77.0#

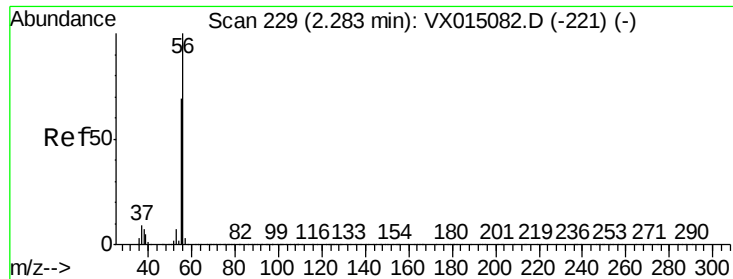


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

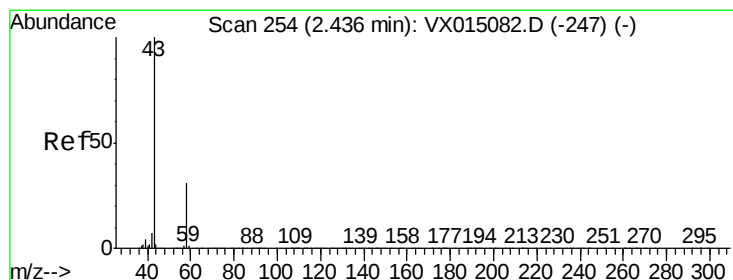
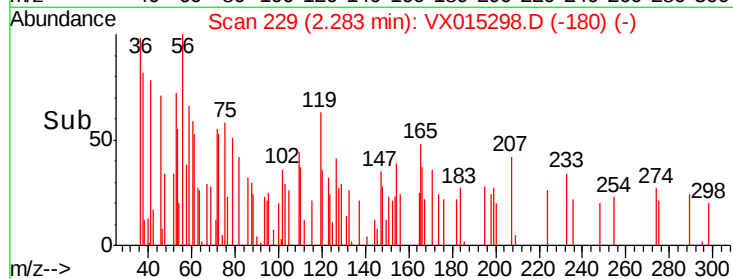
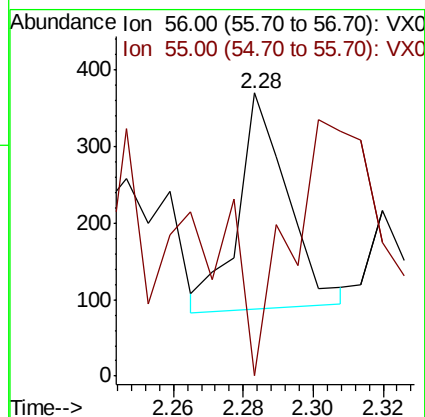
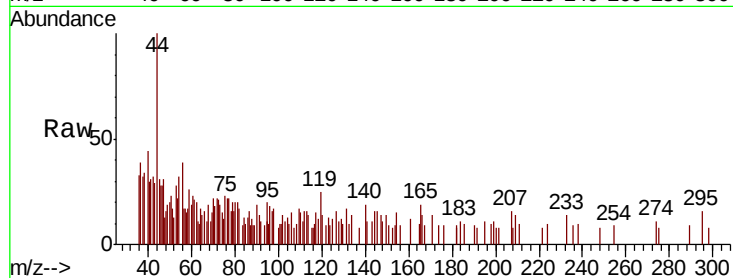




#13
Acrolein
Concen: 0.433 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

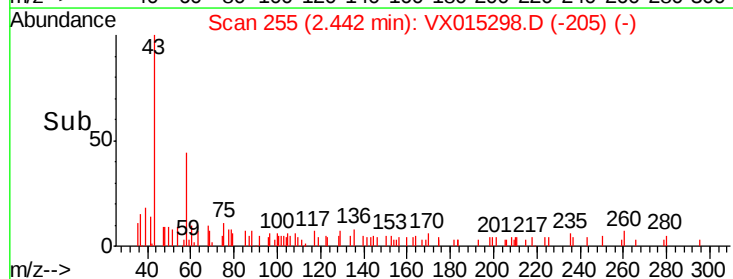
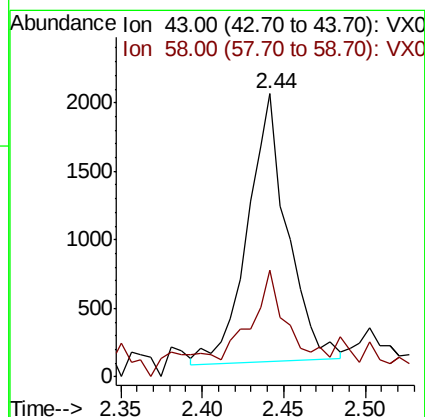
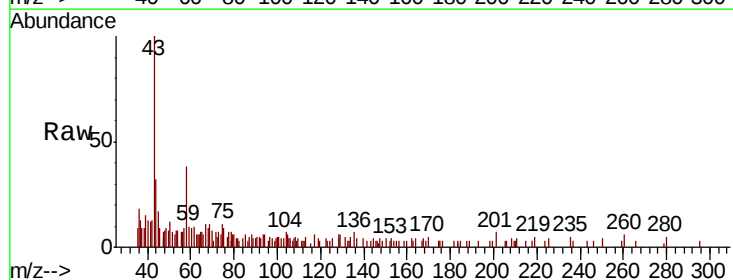
Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20200312

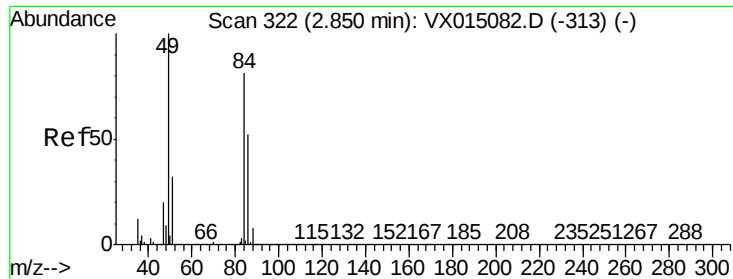
Tot Ion: 56 Resp: 277
Ion Ratio Lower Upper
56 100
55 75.8 55.4 83.0



#16
Acetone
Concen: 2.080 ug/l
RT: 2.44 min Scan# 255
Delta R.T. 0.01 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Tgt Ion: 43 Resp: 3309
Ion Ratio Lower Upper
43 100
58 32.1 24.8 37.2

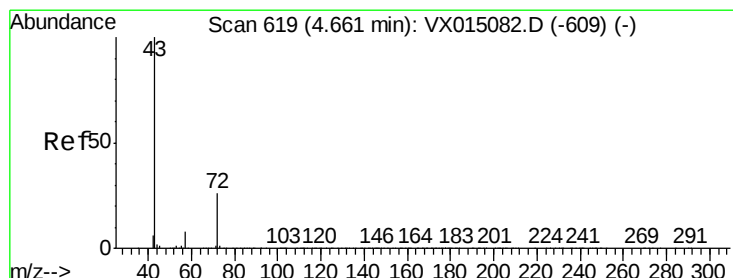
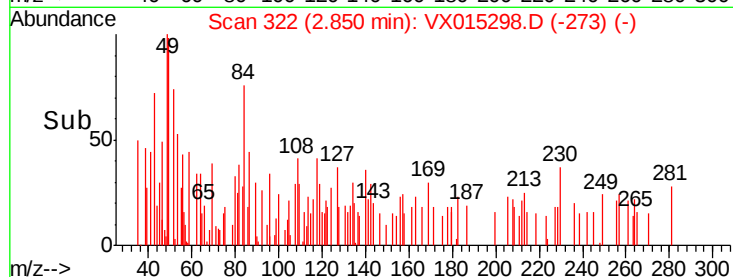
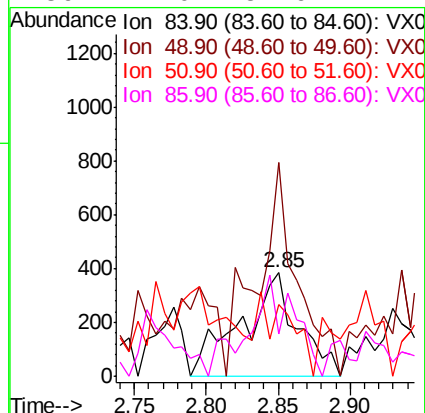
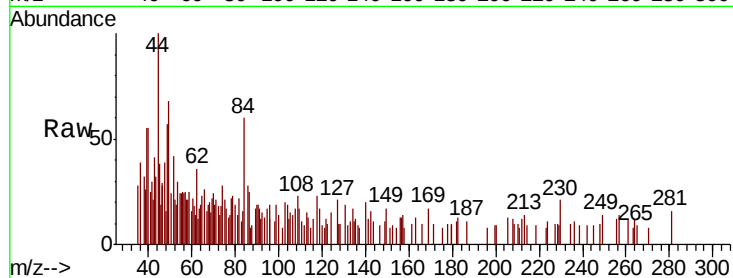




#20
Methvlene Chloride
Concen: 0.283 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

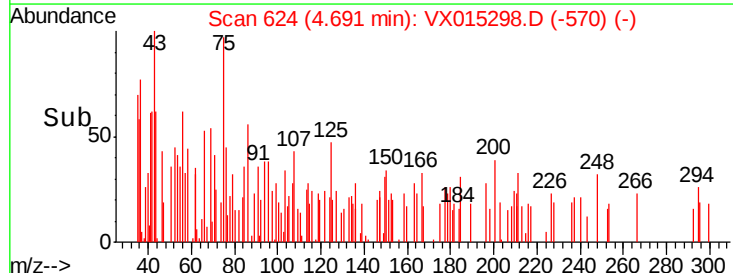
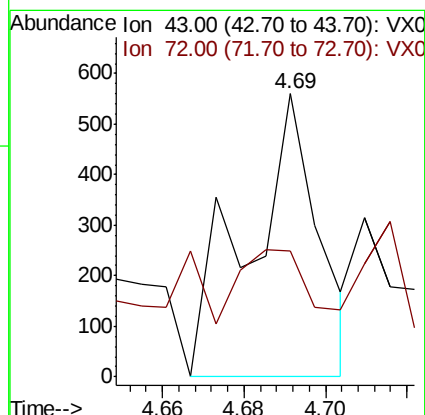
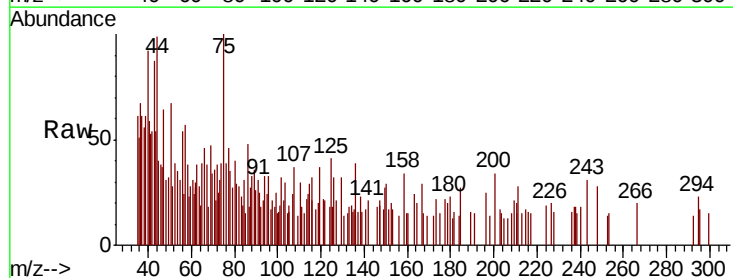
Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20200312

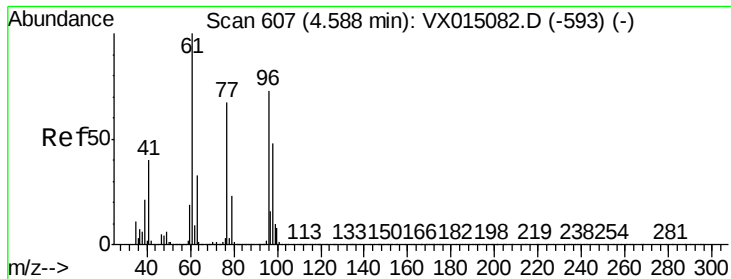
Tot Ion:	84	Resp:	1052
Ion	Ratio	Lower	Upper
84	100		
49	207.3	99.4	149.2#
51	33.9	31.5	47.3
86	24.0	51.6	77.4#



#25
2-Butanone
Concen: 0.289 ug/l
RT: 4.69 min Scan# 624
Delta R.T. 0.03 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Tgt Ion:	43	Resp:	672
Ion	Ratio	Lower	Upper
43	100		
72	20.9	20.6	30.8



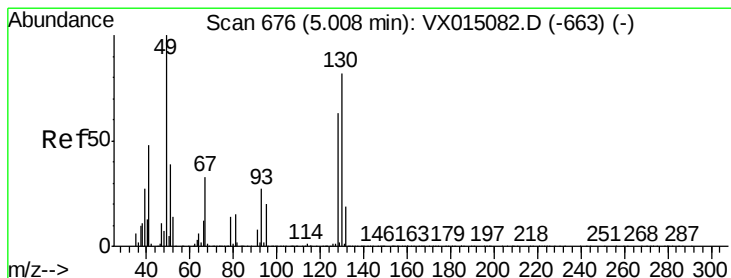
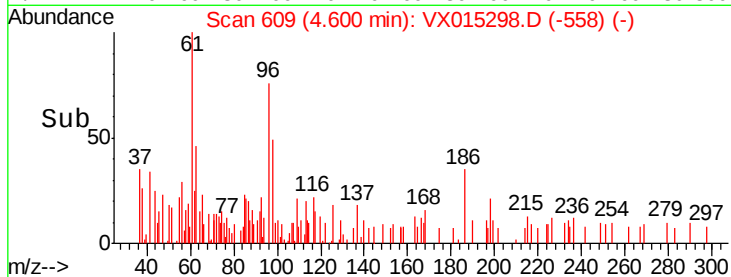
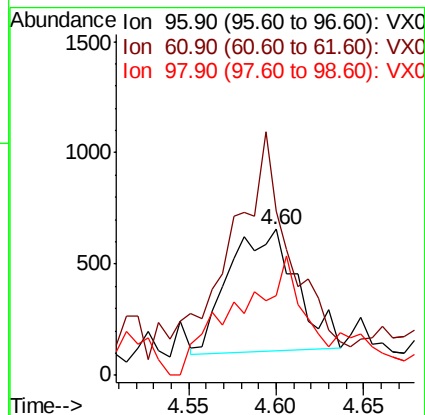
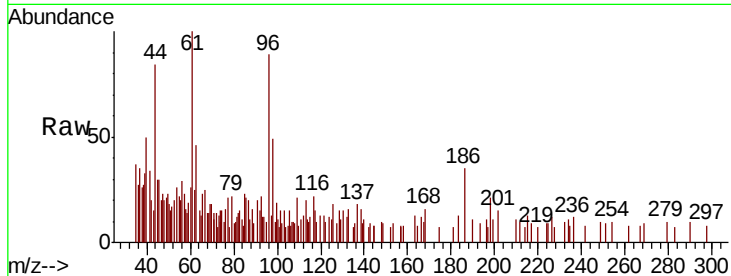


#27

cis-1,2-Dichloroethene
Concen: 0.384 ug/l
RT: 4.60 min Scan# 609
Delta R.T. 0.01 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20200312

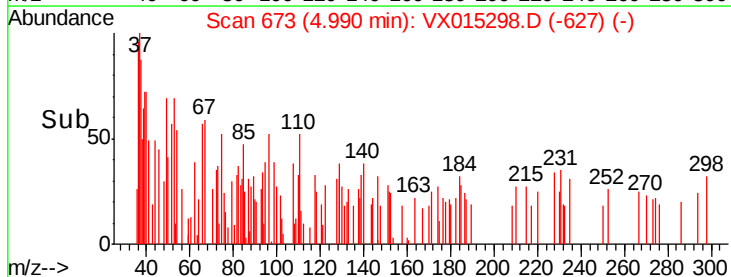
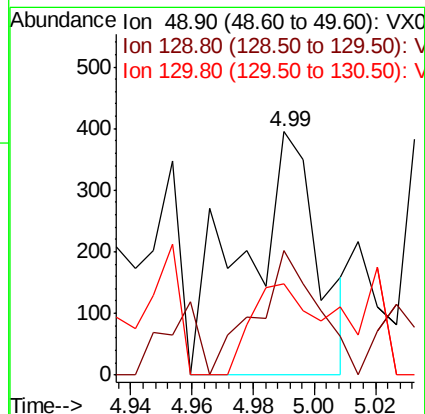
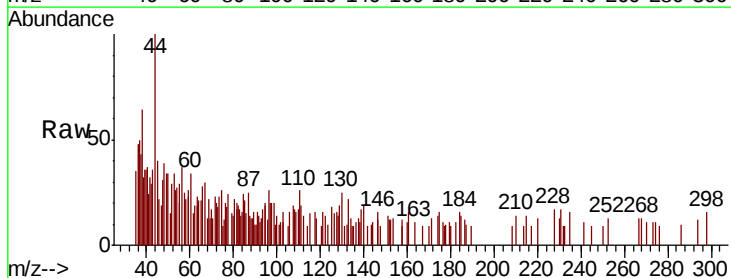
Tot Ion: 96 Resp: 1481
Ion Ratio Lower Upper
96 100
61 174.9 0.0 286.8
98 97.4 0.0 128.4

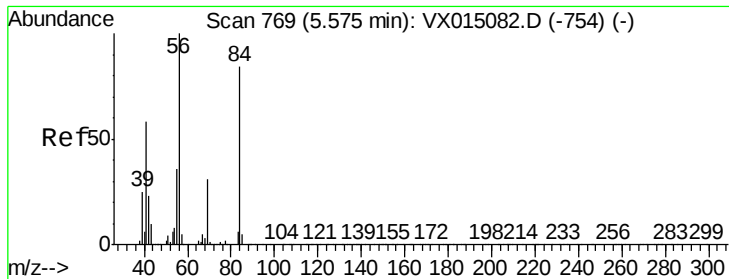


#28

Bromochloromethane
Concen: 0.235 ug/l
RT: 4.99 min Scan# 673
Delta R.T. -0.02 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Tgt Ion: 49 Resp: 663
Ion Ratio Lower Upper
49 100
129 42.4 0.0 4.4#
130 31.1 65.0 97.6#

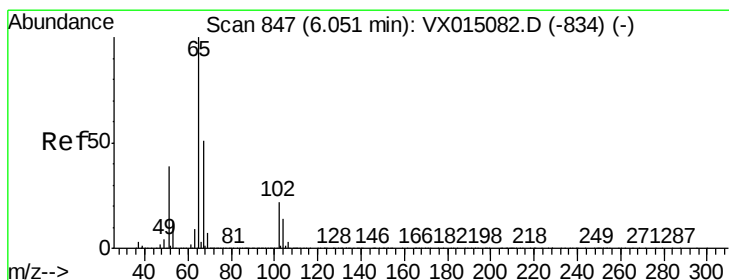
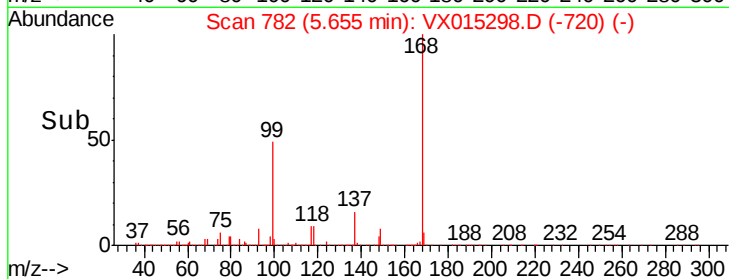
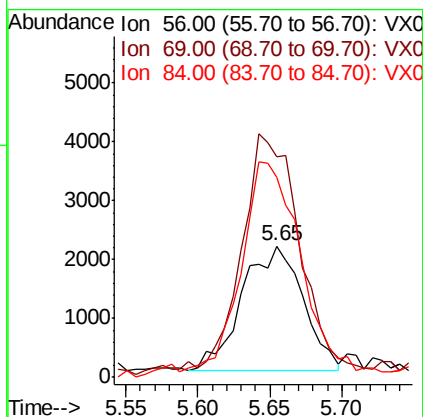
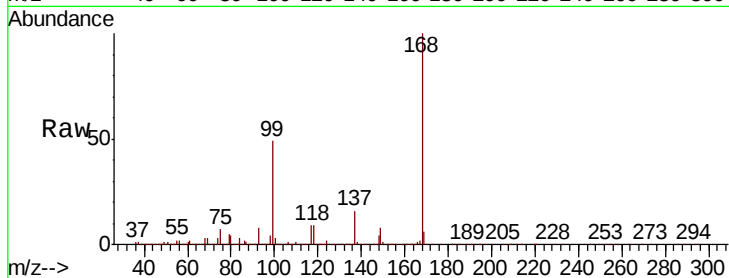




#31
Cyclohexane
Concen: 1.132 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.08 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

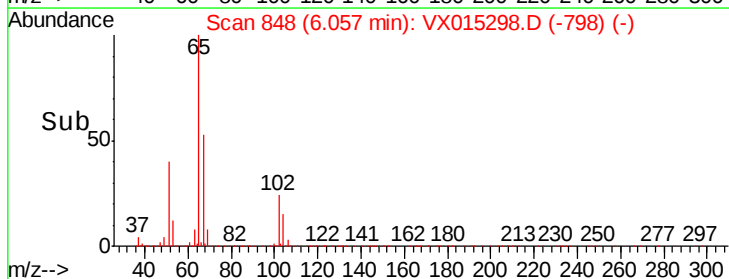
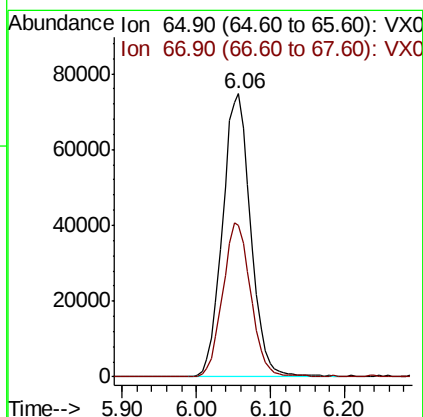
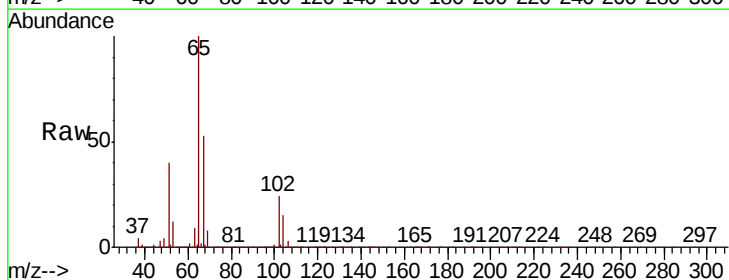
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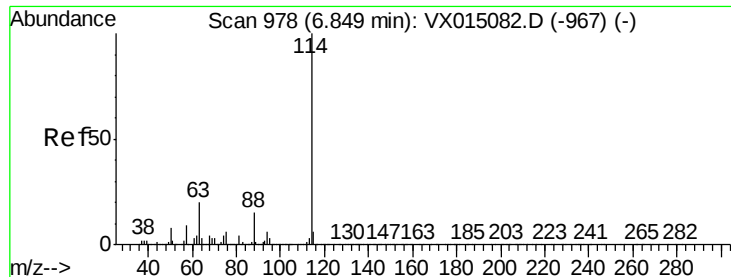
Tot Ion: 56 Resp: 6262
Ion Ratio Lower Upper
56 100
69 173.4 25.0 37.6#
84 160.9 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 50.014 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Tgt Ion: 65 Resp: 196437
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20200312

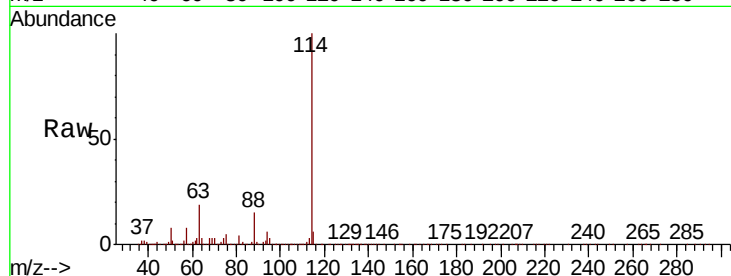
Tot Ion:114 Resp: 543183

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

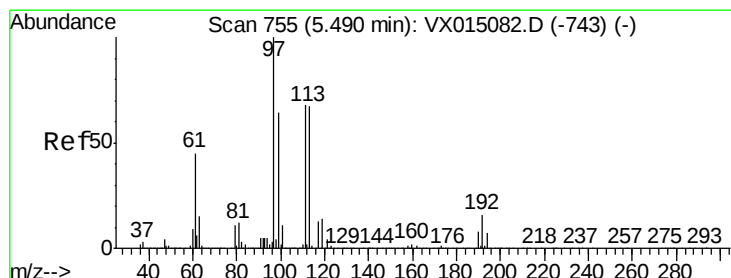
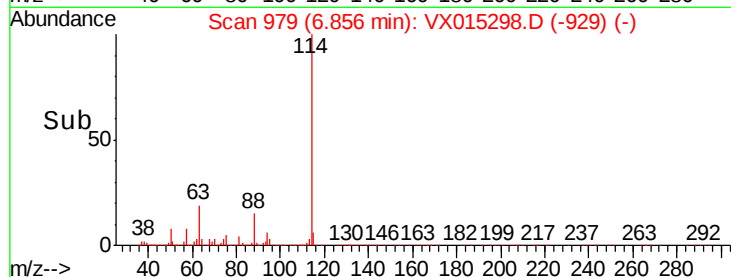
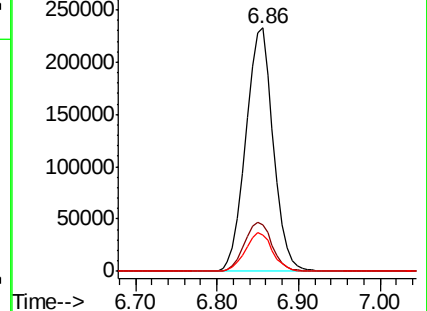
88 14.8 0.0 30.6



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: 48.594 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

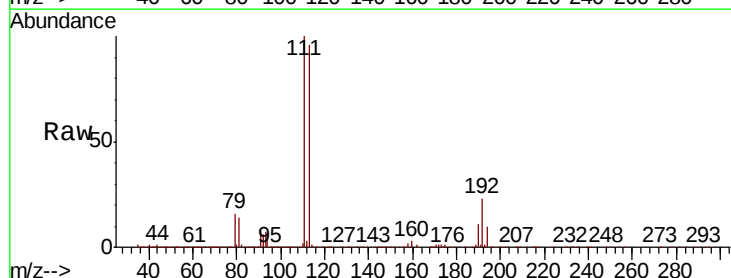
Tgt Ion:113 Resp: 166522

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

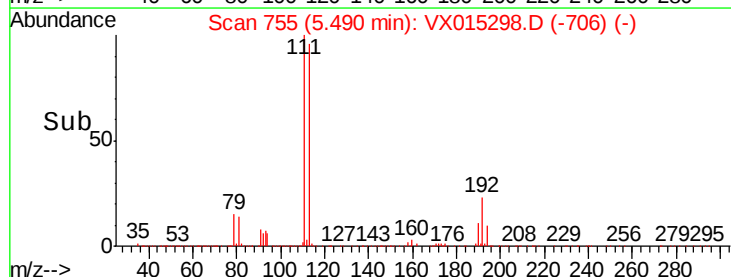
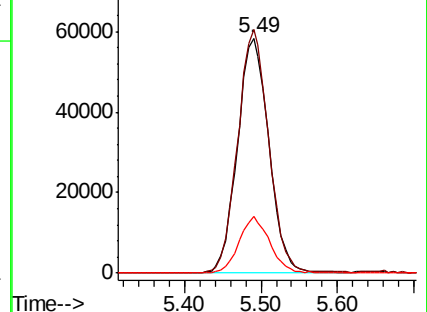
192 23.5 18.6 28.0

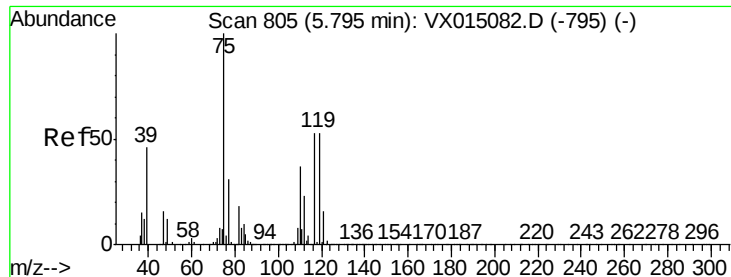


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

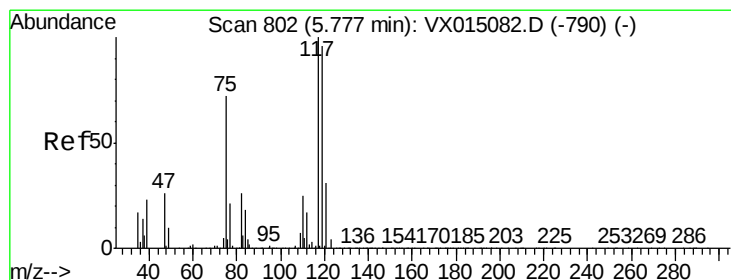
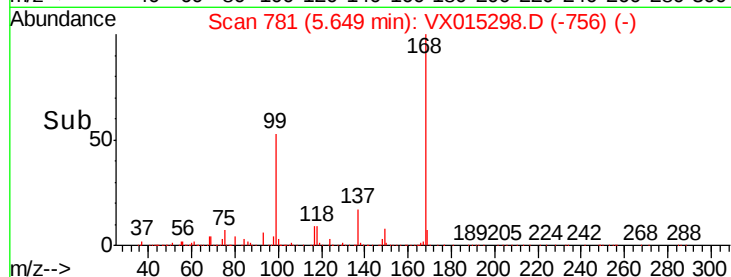
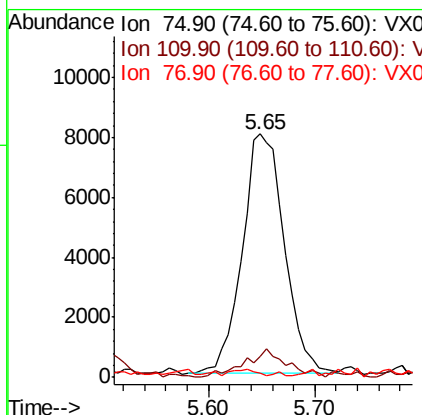
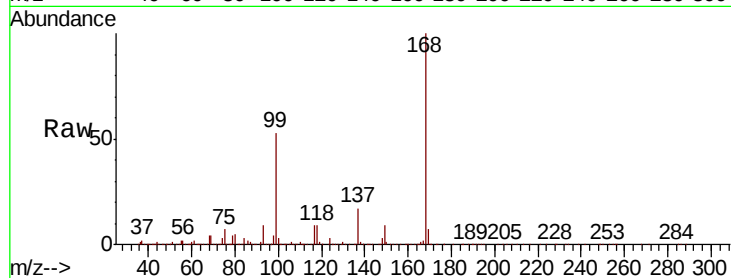




#36
 1,1-Dichloropropene
 Concen: 4.389 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015298.D
 Acq: 16 Mar 2020 16:43

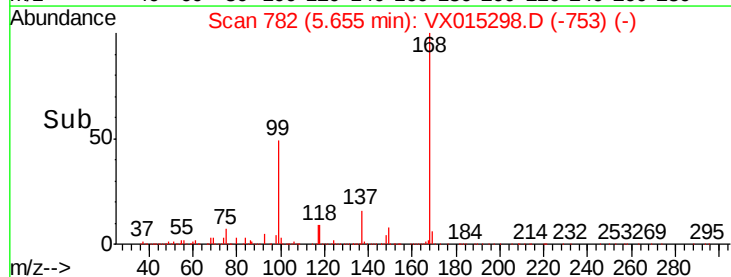
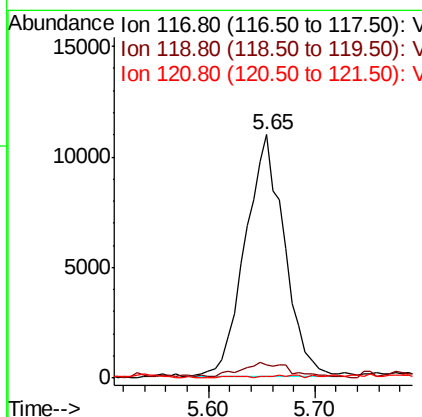
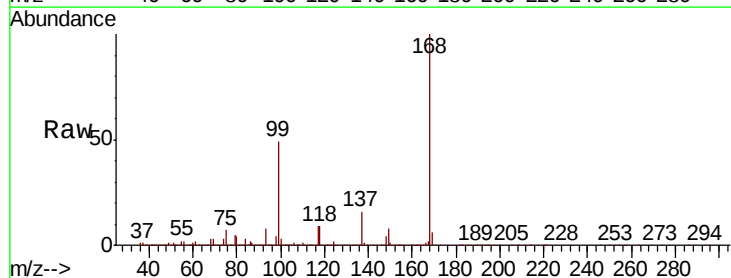
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-20200312

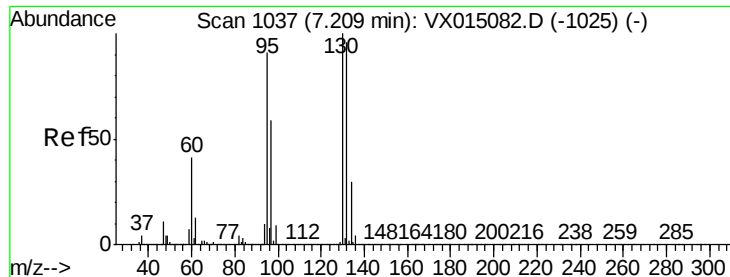
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.6	17.9	53.8#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.911 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015298.D
 Acq: 16 Mar 2020 16:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.9	115.3#
121	0.0	24.6	37.0#





#44

Trichloroethene

Concen: 45.101 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

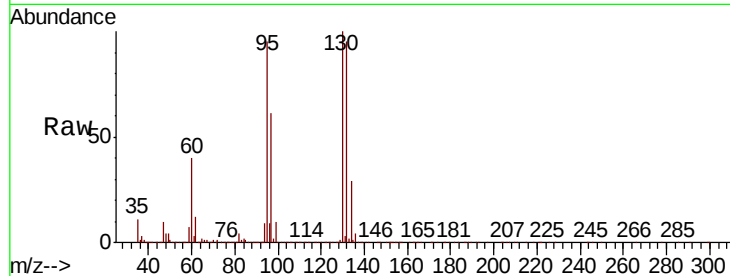
RE104D1-20200312

Tot Ion:130 Resp: 187126

Ion Ratio Lower Upper

130 100

95 94.3 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

80000

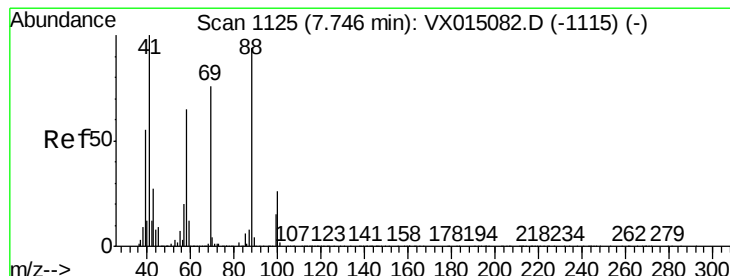
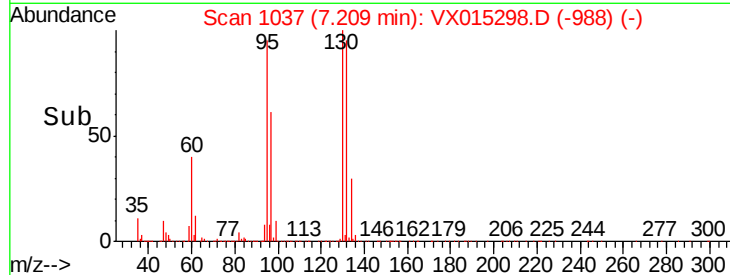
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 12.742 ug/l

RT: 7.77 min Scan# 1129

Delta R.T. 0.02 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

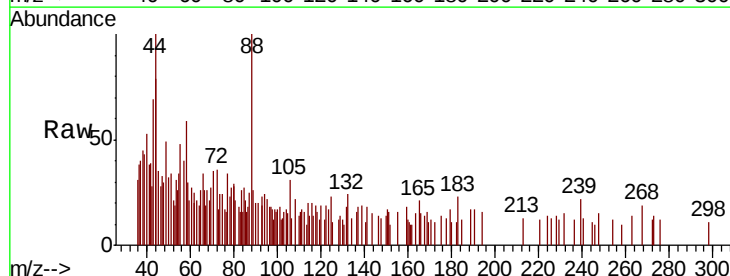
Tgt Ion: 88 Resp: 1149

Ion Ratio Lower Upper

88 100

43 98.4 27.0 40.4#

58 0.0 55.6 83.4#



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

7.77

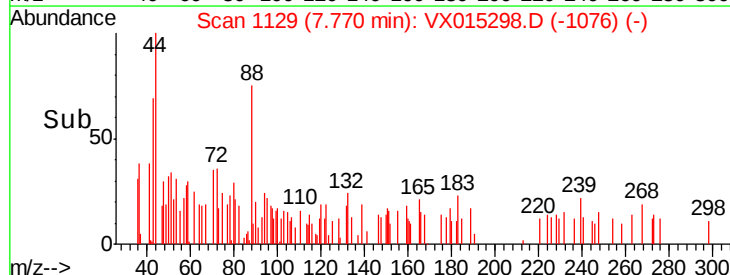
600

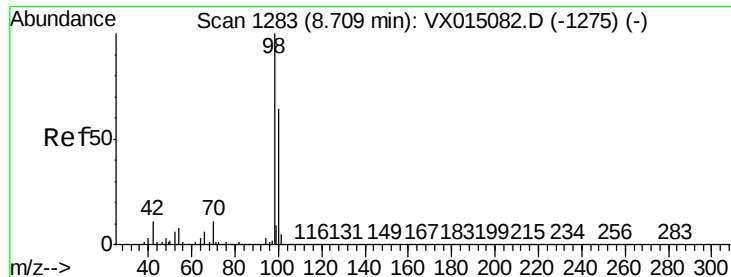
400

200

0

Time-->





#50

Toluene-d8

Concen: 48.765 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

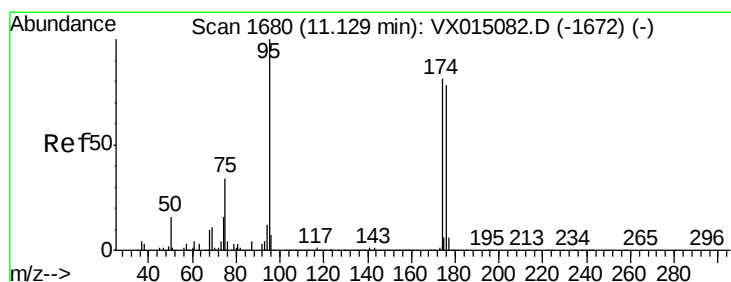
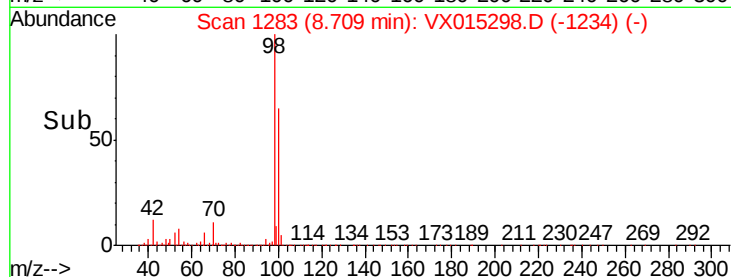
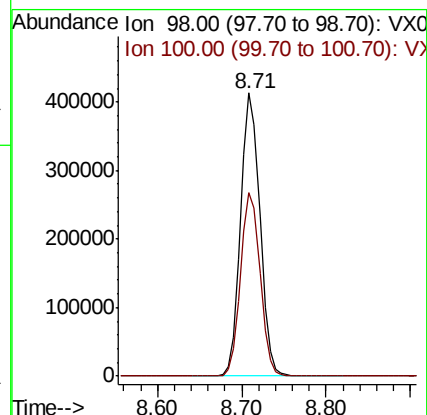
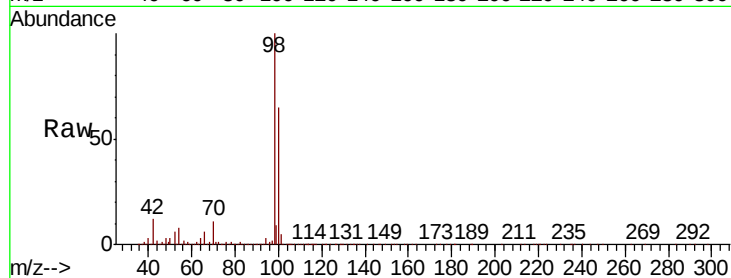
RE104D1-20200312

Tot Ion: 98 Resp: 635649

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 52.102 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

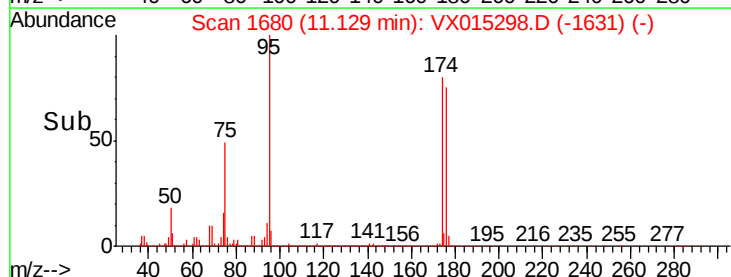
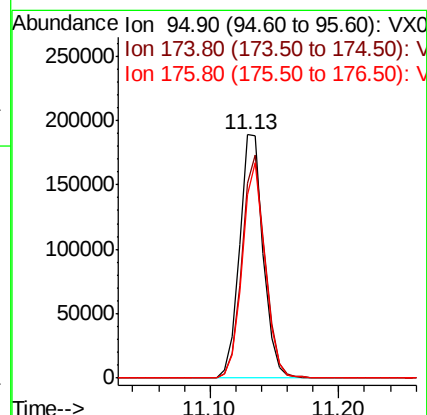
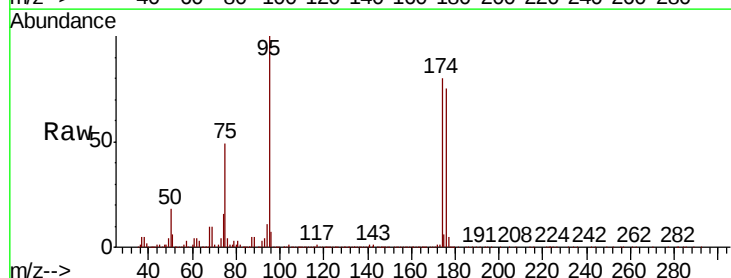
Tgt Ion: 95 Resp: 242246

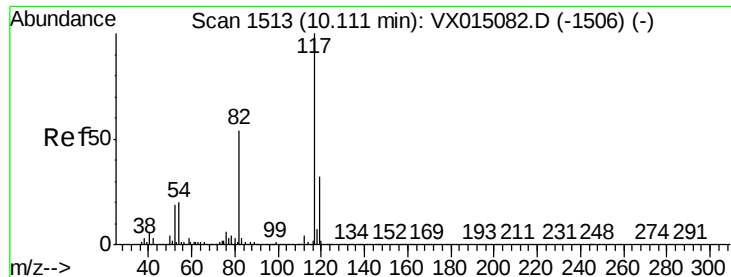
Ion Ratio Lower Upper

95 100

174 88.7 0.0 177.6

176 85.1 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20200312

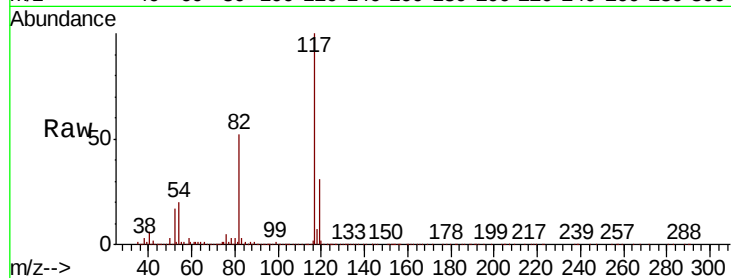
Tot Ion:117 Resp: 523476

Ion Ratio Lower Upper

117 100

82 51.7 43.3 64.9

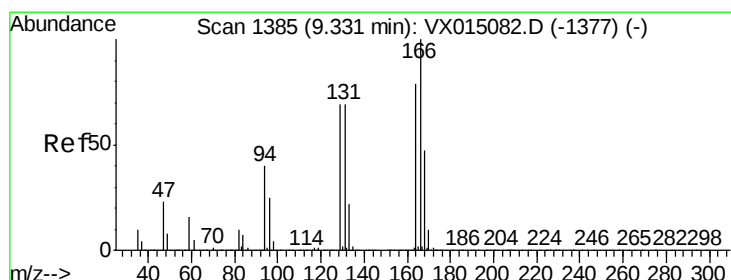
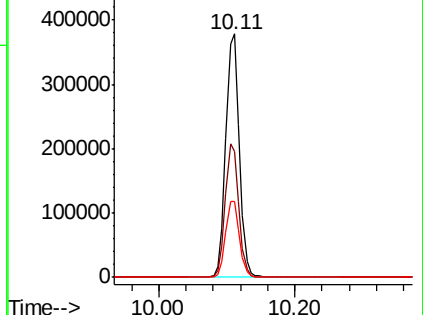
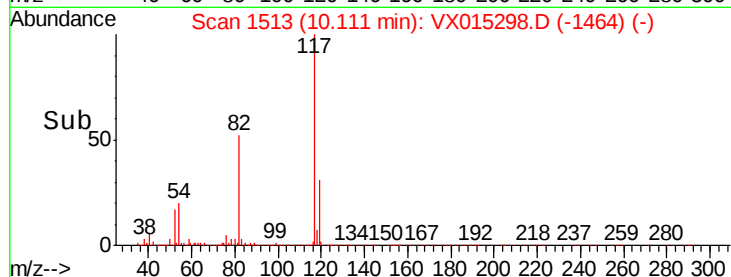
119 31.3 25.8 38.8



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



#64

Tetrachloroethene

Concen: 2.702 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Tgt Ion:164 Resp: 11693

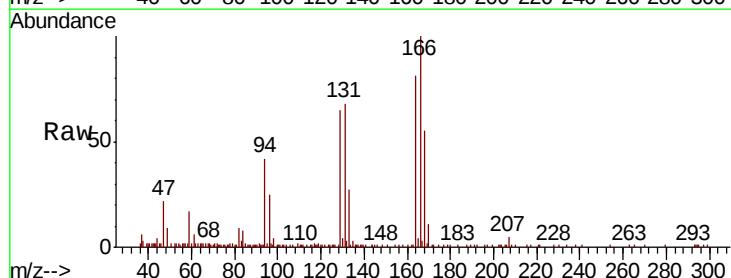
Ion Ratio Lower Upper

164 100

166 123.3 101.1 151.7

129 79.8 69.4 104.0

131 84.0 69.8 104.8

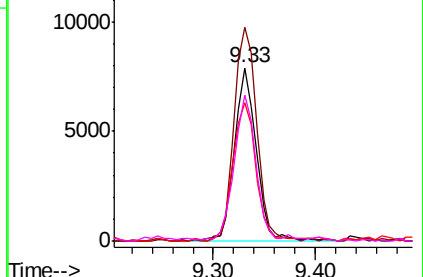
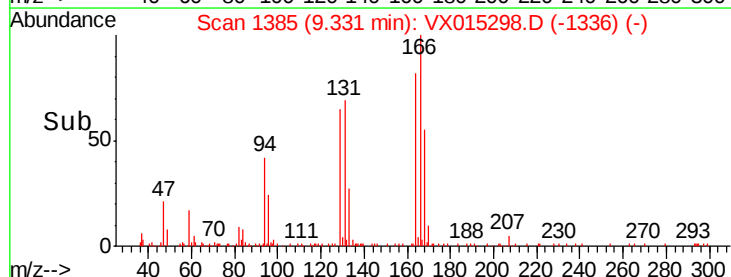


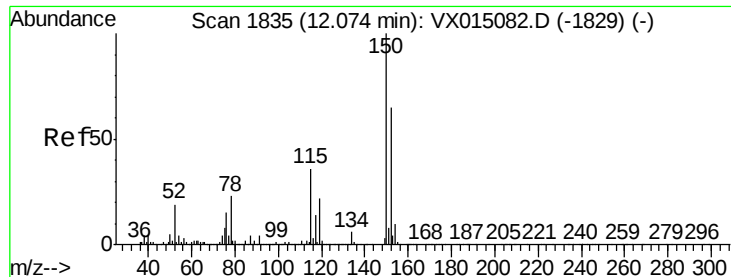
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20200312

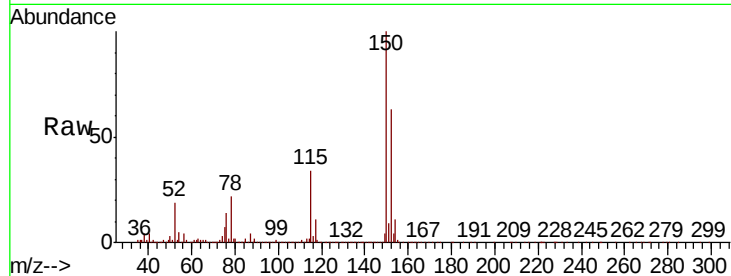
Tot Ion:152 Resp: 263401

Ion Ratio Lower Upper

152 100

115 55.2 38.2 114.6

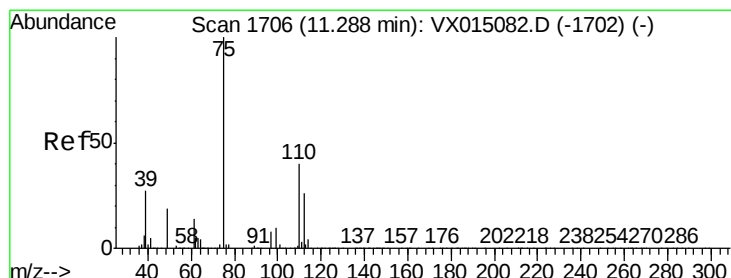
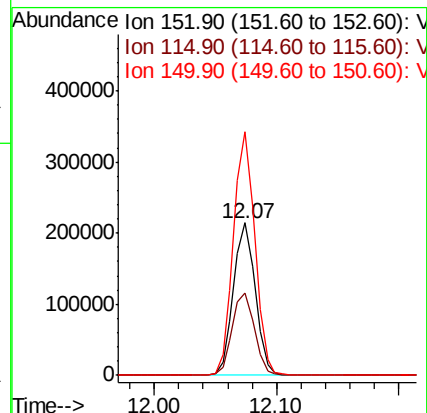
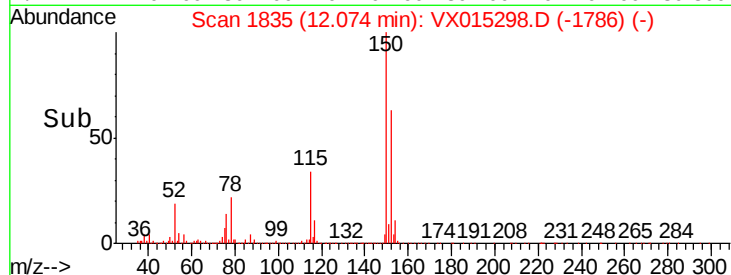
150 157.8 0.0 343.8



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: 22.251 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015298.D

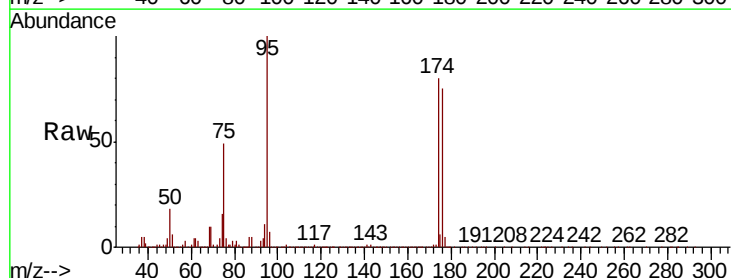
Acq: 16 Mar 2020 16:43

Tgt Ion: 75 Resp: 116907

Ion Ratio Lower Upper

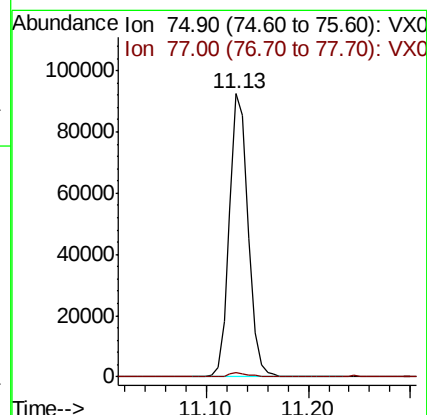
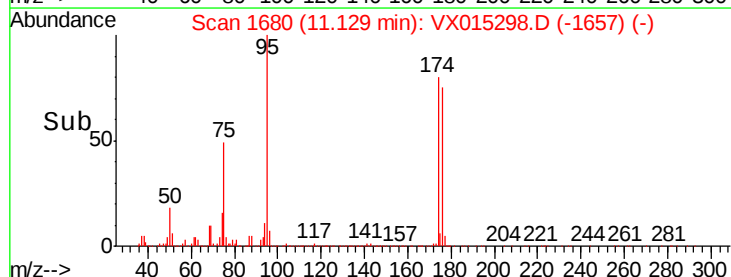
75 100

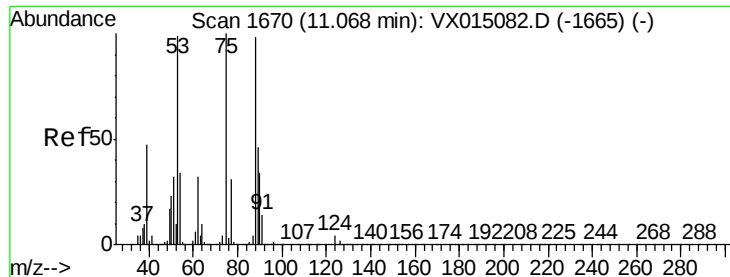
77 1.4 22.6 67.8#



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: 63.148 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-20200312

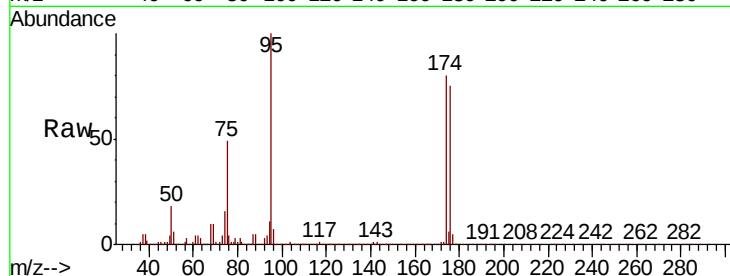
Tot Ion: 75 Resp: 116907

Ion Ratio Lower Upper

75 100

53 0.5 77.9 116.9#

89 0.0 36.2 54.2#

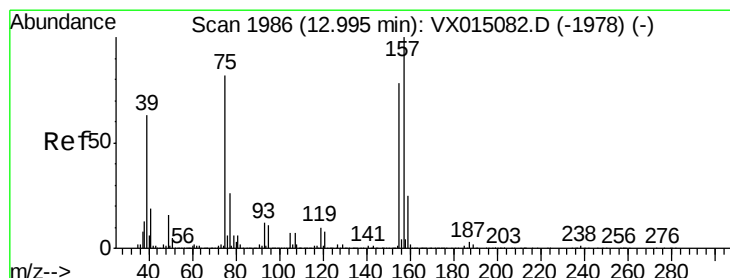
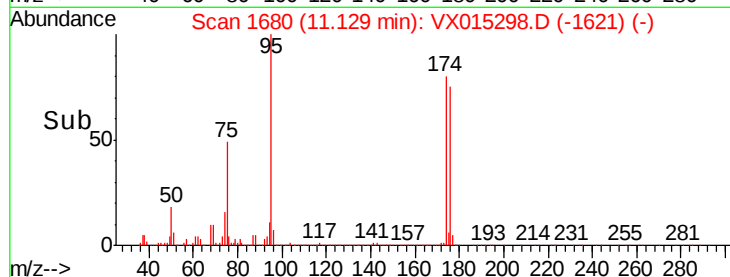
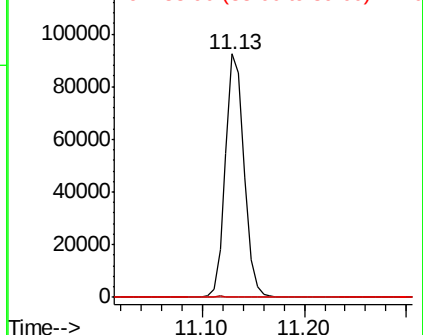


Abundance

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.257 ug/l

RT: 12.98 min Scan# 1984

Delta R.T. -0.01 min

Lab File: VX015298.D

Acq: 16 Mar 2020 16:43

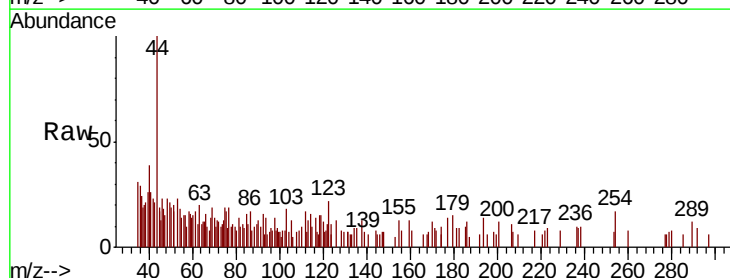
Tgt Ion: 75 Resp: 289

Ion Ratio Lower Upper

75 100

155 61.9 46.6 139.7

157 45.3 59.2 177.5#

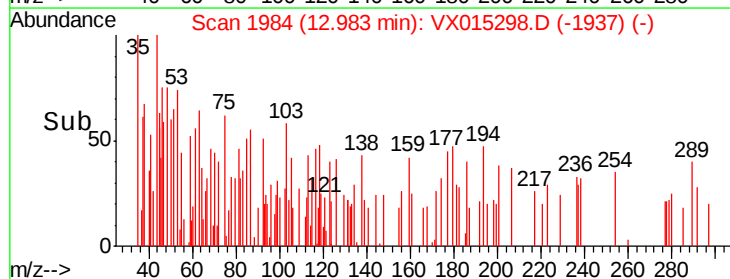
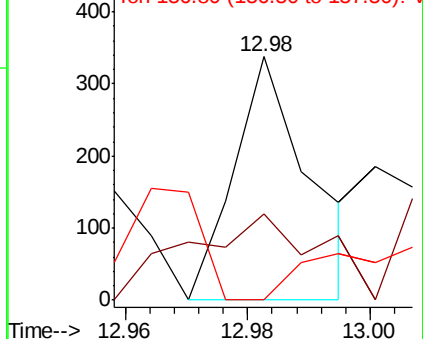


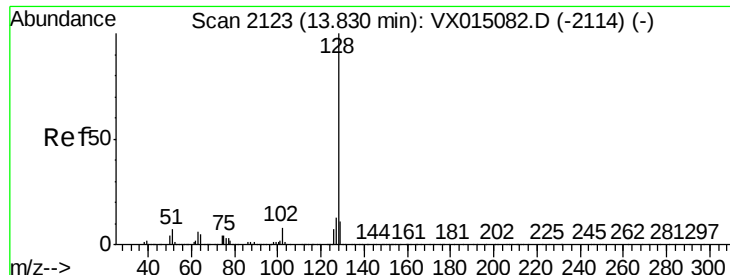
Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 1.465 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX015298.D
Acq: 16 Mar 2020 16:43

Instrument :
MSVOA_X
ClientSampleId :
RE104D1-20200312

Tot Ion	Ratio	Lower	Upper
128	100		
127	29.9	10.3	15.5#
129	29.1	8.6	13.0#

