

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031620\
 Data File : VX015301.D
 Acq On : 16 Mar 2020 17:50
 Operator : JC/SP
 Sample : L1903-21DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310DL

Quant Time: Mar 17 07:43:29 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	298522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	484778	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	469631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	243006	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	170452	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
35) Dibromofluoromethane	5.49	113	149310	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	8.71	98	595969	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.13	95	218233	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	

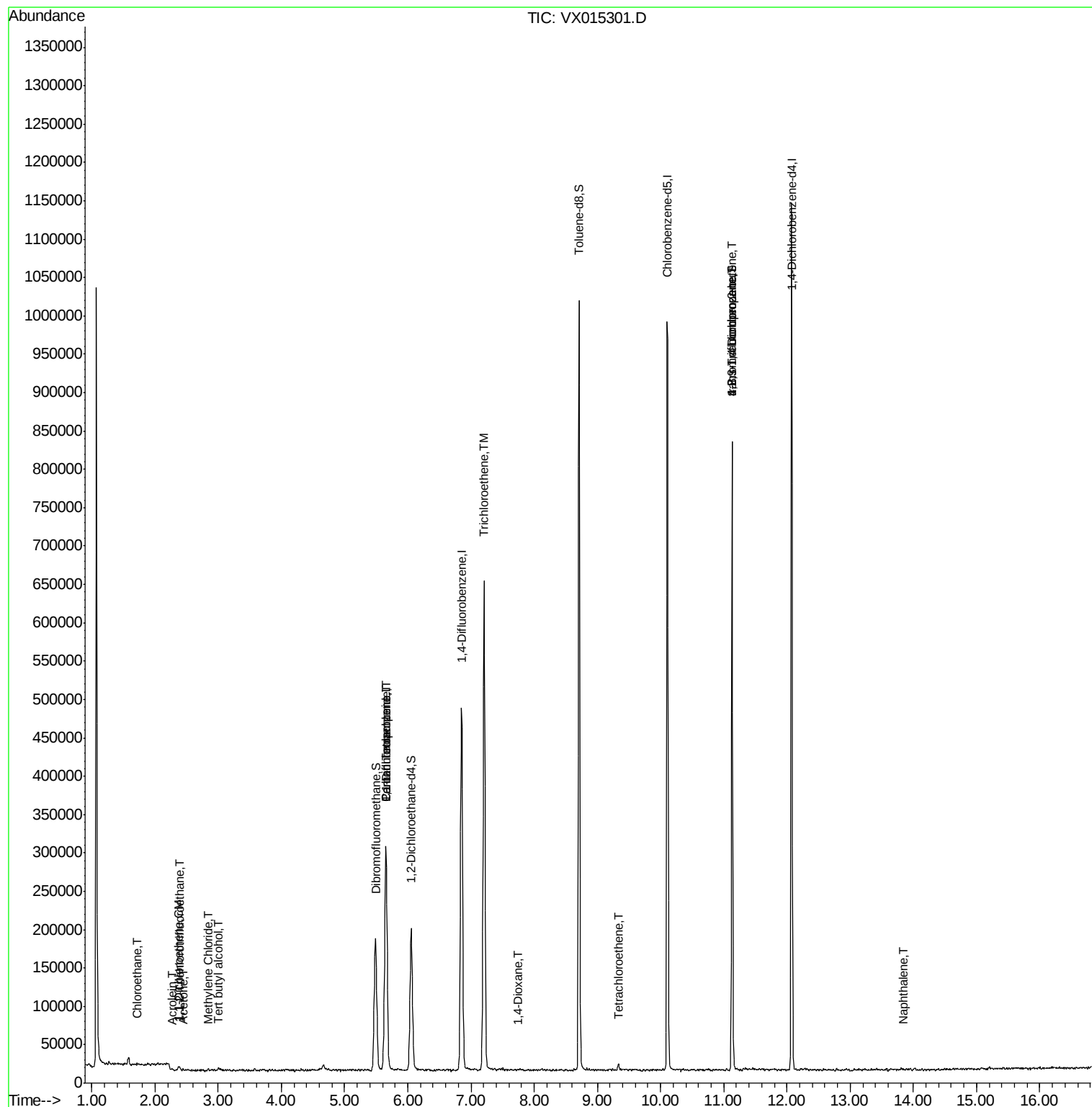
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	459	0.204	ug/l #	65
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2291	0.815	ug/l	84
11) Tert butyl alcohol	3.01	59	2205	3.589	ug/l #	65
12) 1,1-Dichloroethene	2.37	96	1500	0.517	ug/l #	61
13) Acrolein	2.28	56	148	0.256	ug/l #	15
16) Acetone	2.44	43	620	0.432	ug/l #	71
20) Methylene Chloride	2.85	84	684	0.204	ug/l #	70
36) 1,1-Dichloropropene	5.65	75	20680	4.614	ug/l #	52
38) Carbon Tetrachloride	5.65	117	26139	6.179	ug/l #	15
44) Trichloroethene	7.21	130	256483	69.265	ug/l	98
49) 1,4-Dioxane	7.74	88	571	7.095	ug/l #	46
64) Tetrachloroethene	9.34	164	2029	0.523	ug/l #	89
76) 1,2,3-Trichloropropane	11.13	75	103464	21.345	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	103464	60.577	ug/l #	11
95) Naphthalene	13.83	128	495	1.450	ug/l #	96

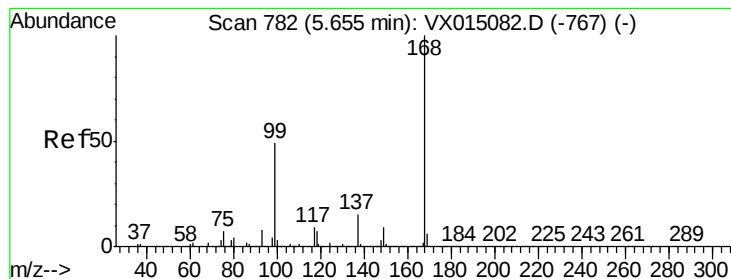
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

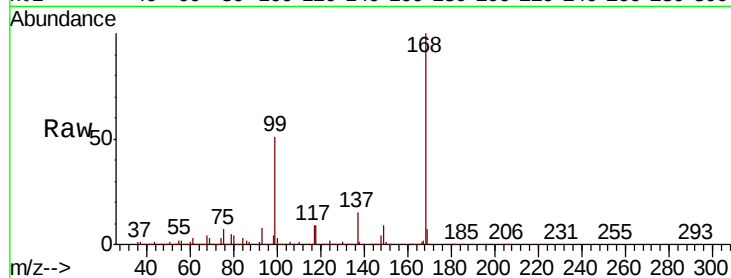
RE103D1-20200310DL

Tot Ion:168 Resp: 298522

Ion Ratio Lower Upper

168 100

99 50.8 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

120000

100000

80000

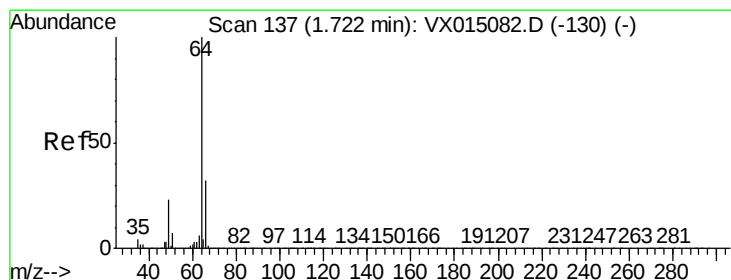
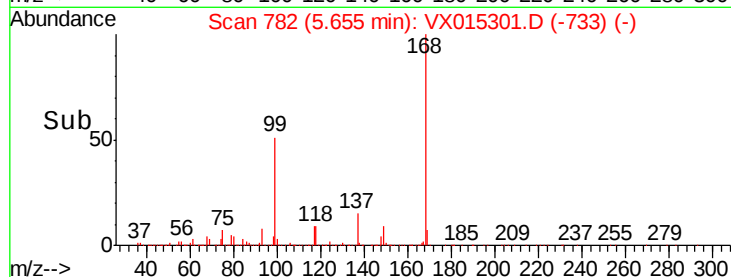
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.00 min

Lab File: VX015301.D

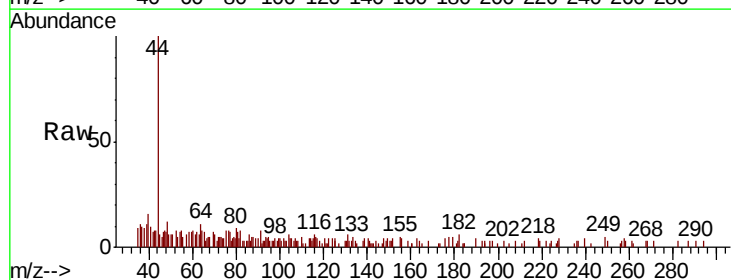
Acq: 16 Mar 2020 17:50

Tgt Ion: 64 Resp: 459

Ion Ratio Lower Upper

64 100

66 12.7 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

500

400

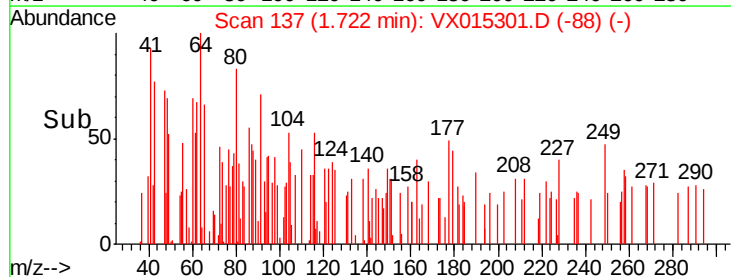
300

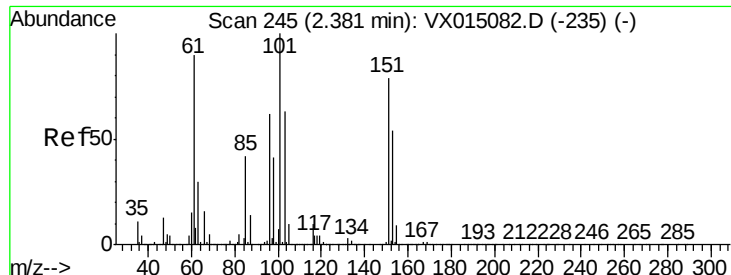
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.815 ug/l

RT: 2.39 min Scan# 246

Delta R.T. 0.01 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

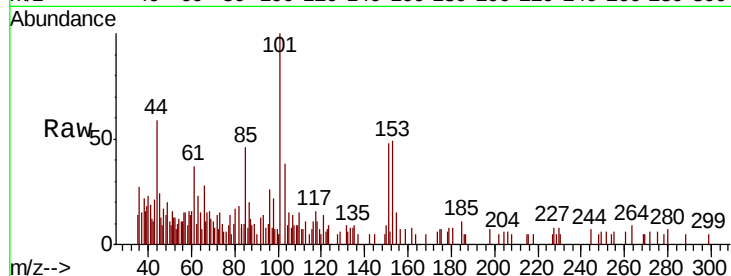
Tot Ion:101 Resp: 2291

Ion Ratio Lower Upper

101 100

85 34.6 33.7 50.5

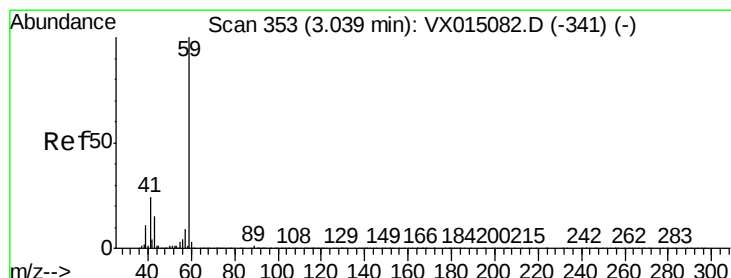
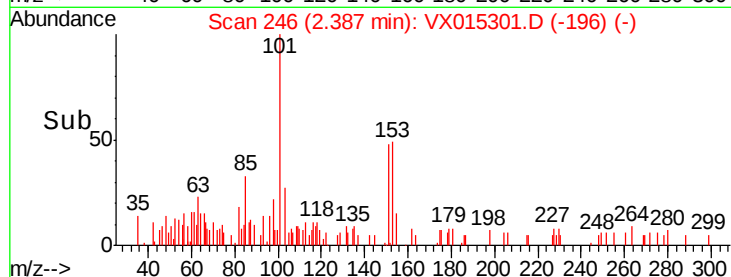
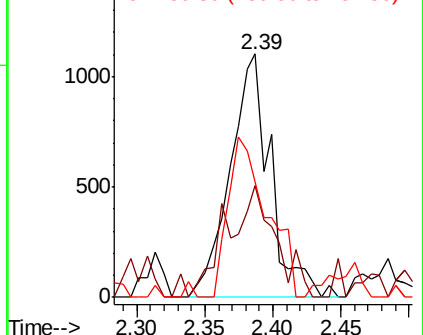
151 64.1 64.0 96.0



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



#11

Tert butyl alcohol

Concen: 3.589 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX015301.D

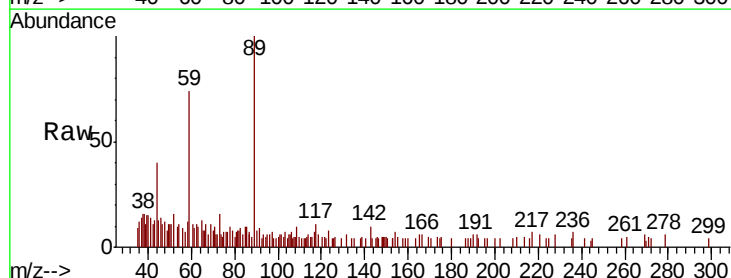
Acq: 16 Mar 2020 17:50

Tgt Ion: 59 Resp: 2205

Ion Ratio Lower Upper

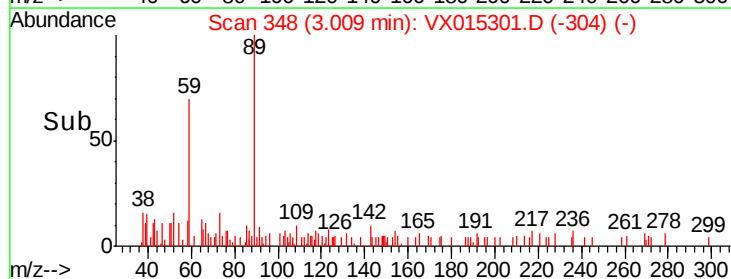
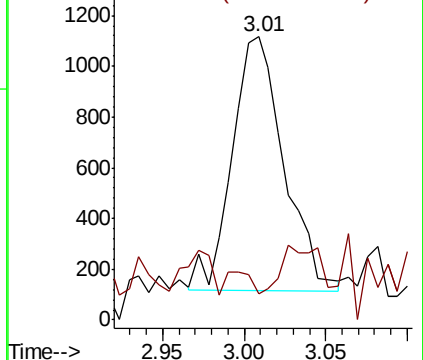
59 100

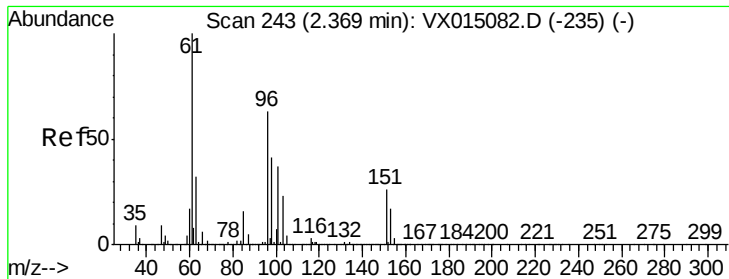
57 23.5 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.517 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

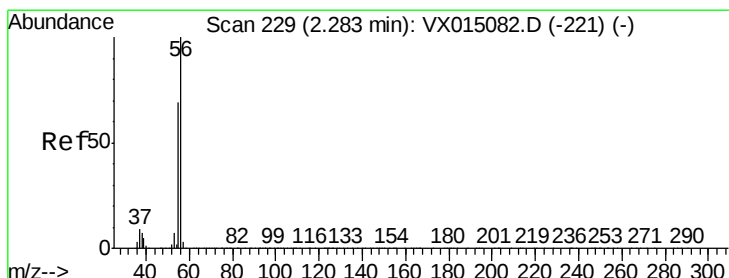
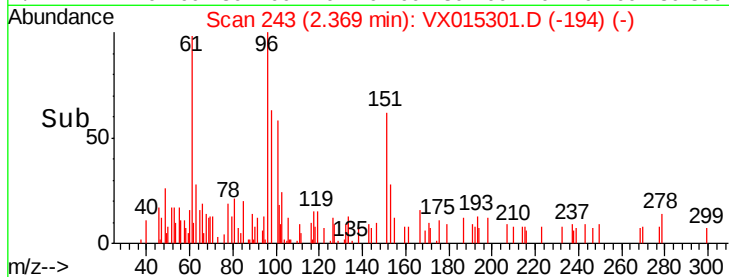
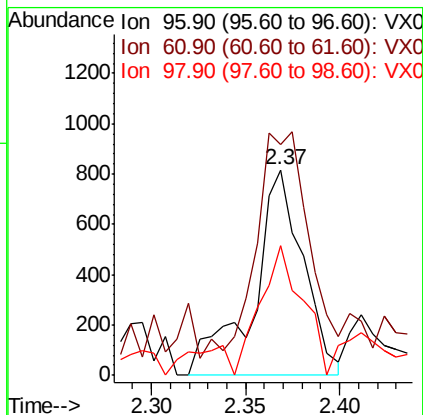
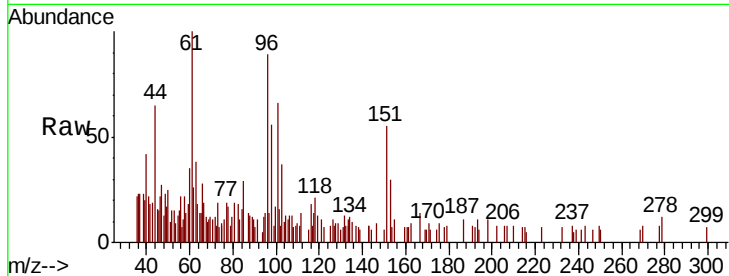
Tot Ion: 96 Resp: 1500

Ion Ratio Lower Upper

96 100

61 93.9 126.2 189.4#

98 51.8 51.4 77.0



#13

Acrolein

Concen: 0.256 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX015301.D

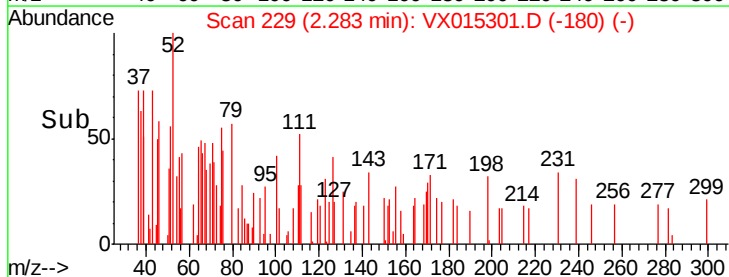
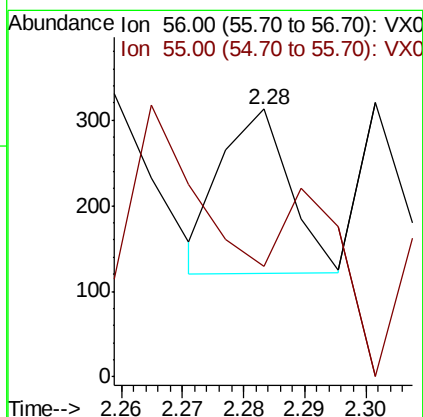
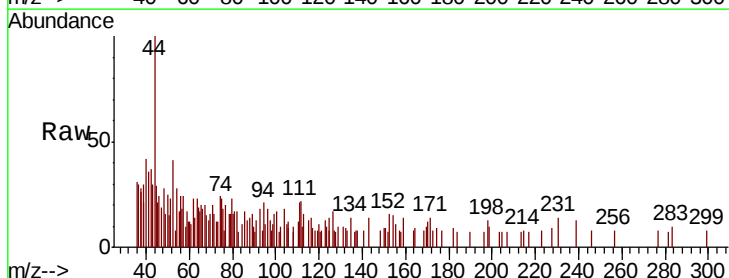
Acq: 16 Mar 2020 17:50

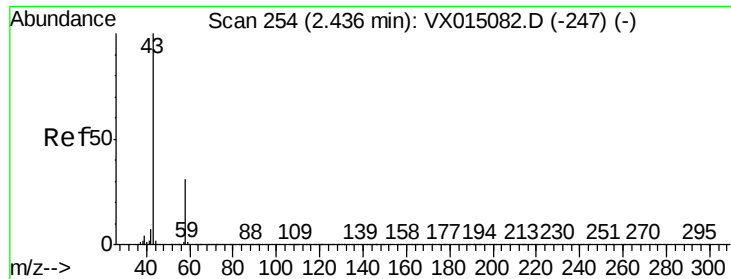
Tgt Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#





#16

Acetone

Concen: 0.432 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

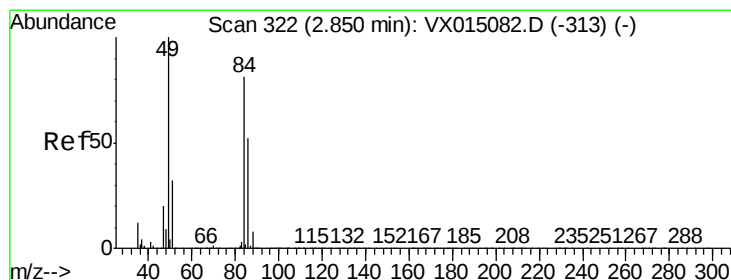
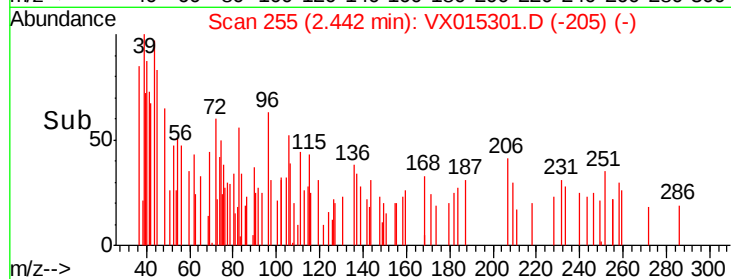
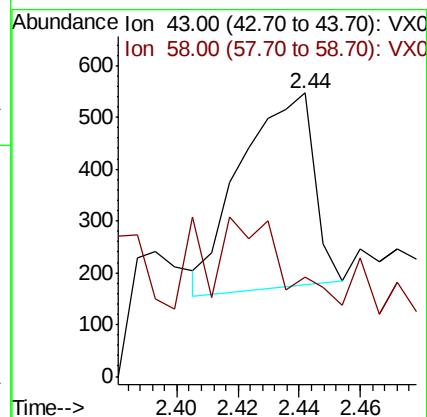
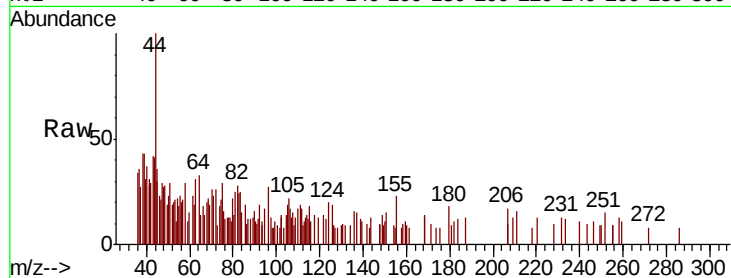
RE103D1-20200310DL

Tot Ion: 43 Resp: 620

Ion Ratio Lower Upper

43 100

58 15.2 24.8 37.2#



#20

Methylene Chloride

Concen: 0.204 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Tgt Ion: 84 Resp: 684

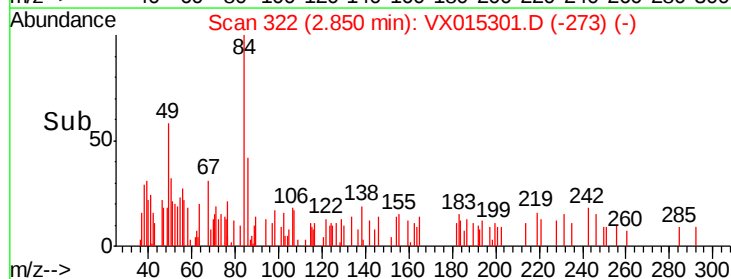
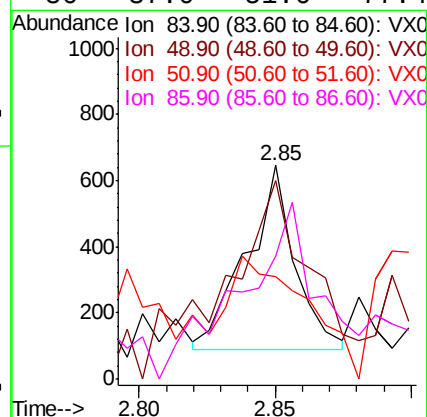
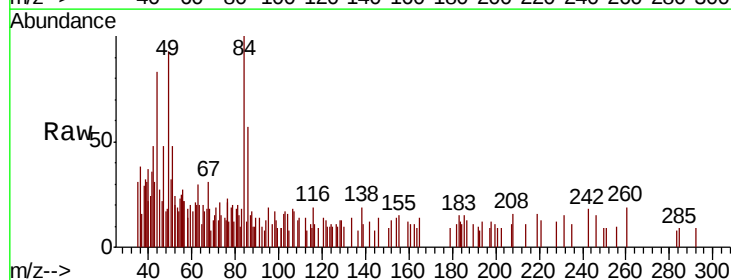
Ion Ratio Lower Upper

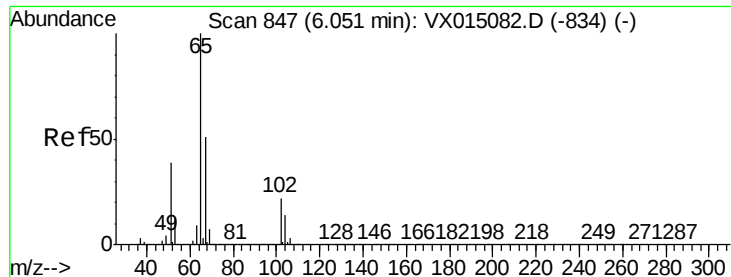
84 100

49 87.1 99.4 149.2#

51 32.5 31.5 47.3

86 37.0 51.6 77.4#





#33

1,2-Dichloroethane-d4

Concen: 48.129 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

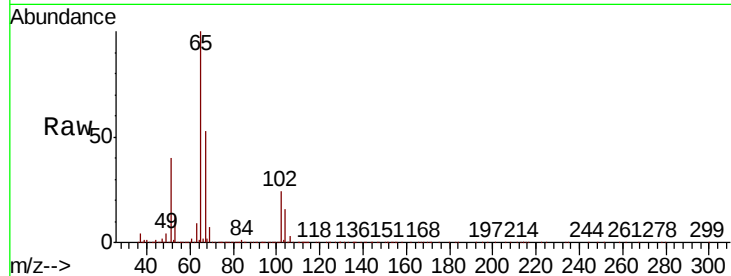
RE103D1-20200310DL

Tot Ion: 65 Resp: 170452

Ion Ratio Lower Upper

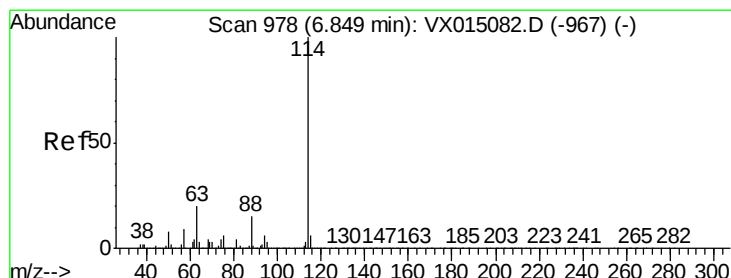
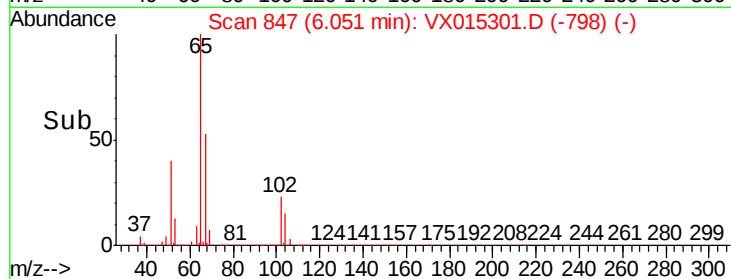
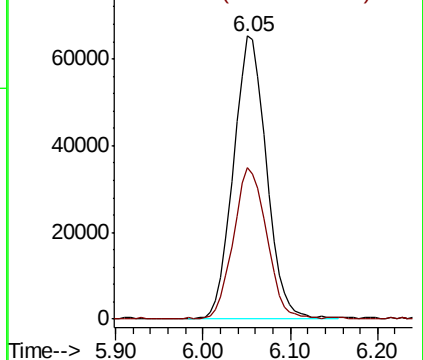
65 100

67 53.5 0.0 105.6



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: VX015301.D

Acq: 16 Mar 2020 17:50

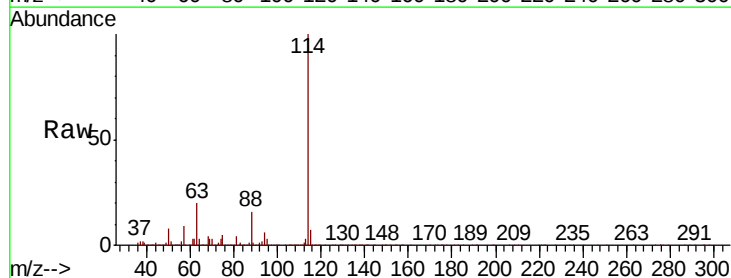
Tgt Ion: 114 Resp: 484778

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

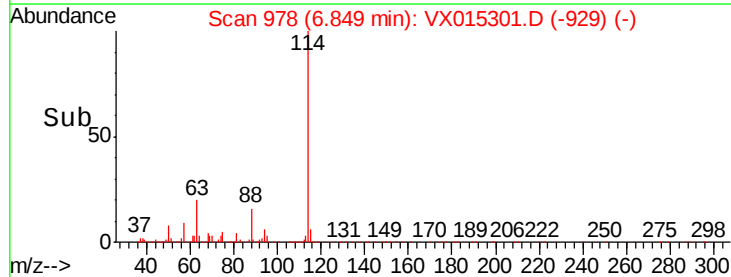
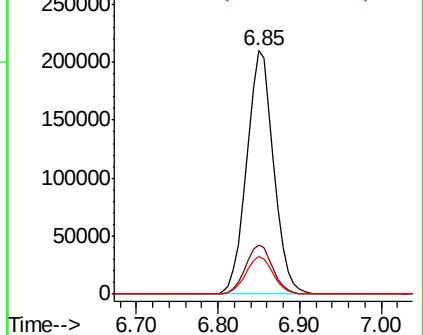
88 15.5 0.0 30.6

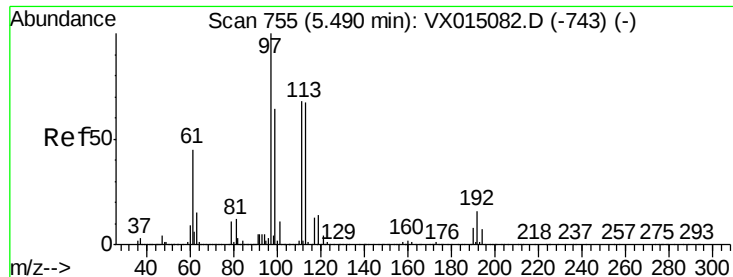


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

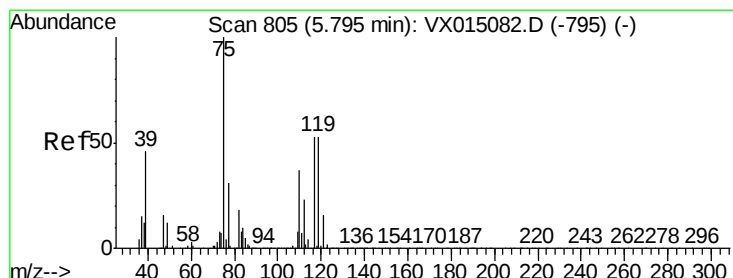
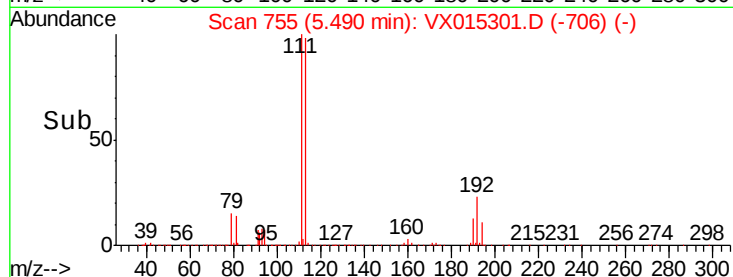
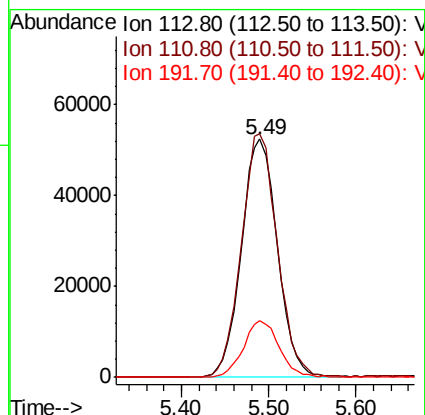
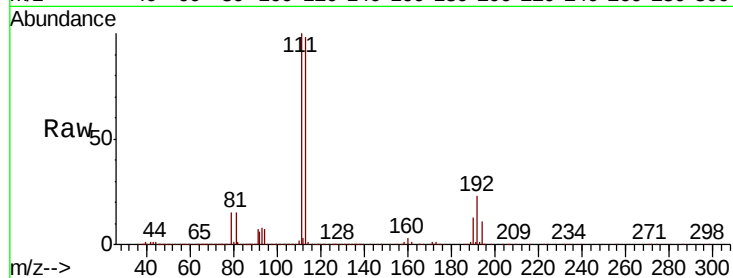




#35
 Dibromofluoromethane
 Concen: 48.821 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX015301.D
 Acq: 16 Mar 2020 17:50

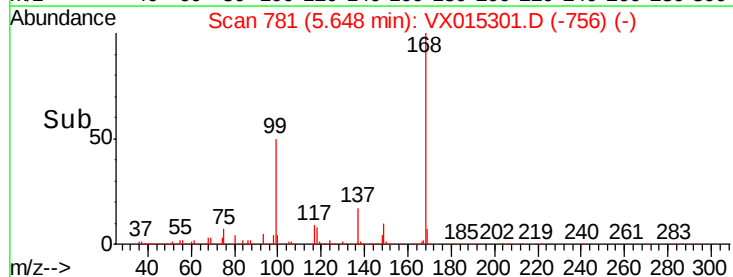
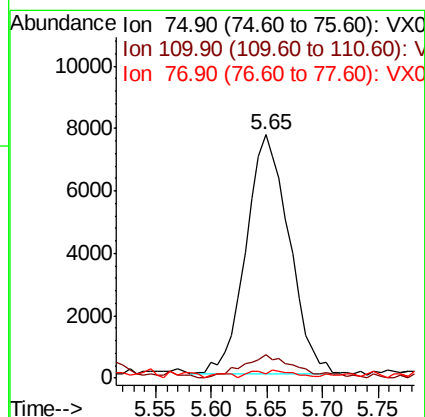
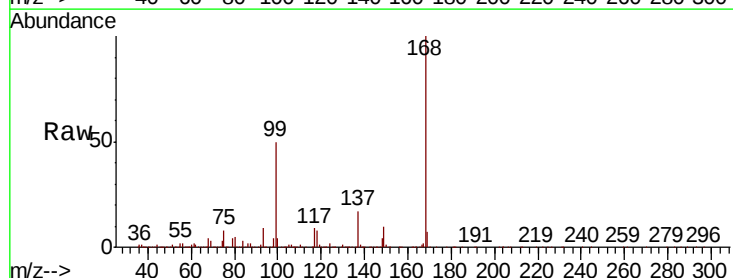
Instrument :
 MSVOA_X
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 RE103D1-20200310DL

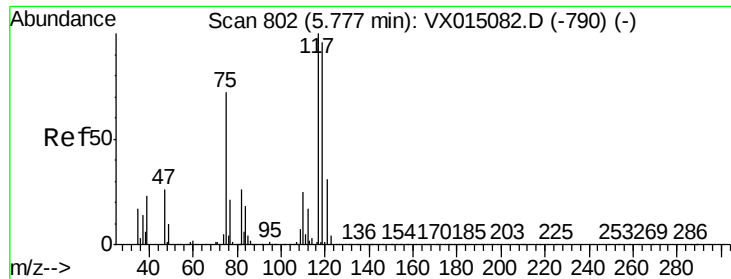
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	23.9	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.614 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX015301.D
 Acq: 16 Mar 2020 17:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	17.9	53.8#
77	1.2	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.179 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

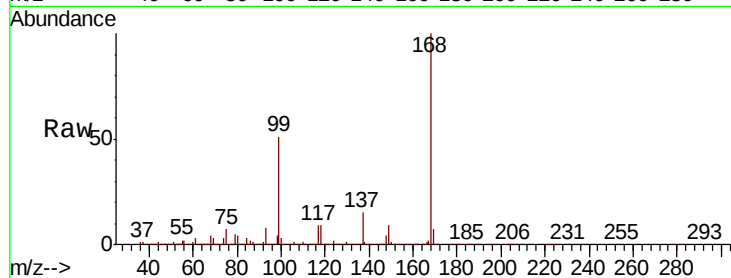
Tot Ion:117 Resp: 26139

Ion Ratio Lower Upper

117 100

119 3.8 76.9 115.3#

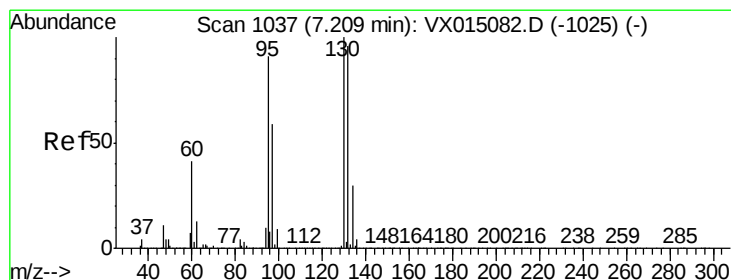
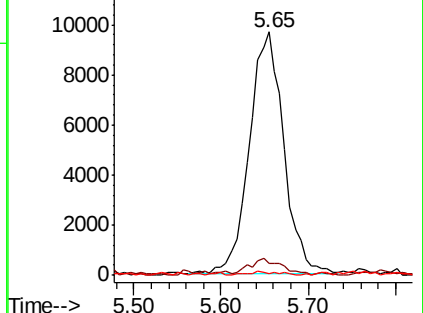
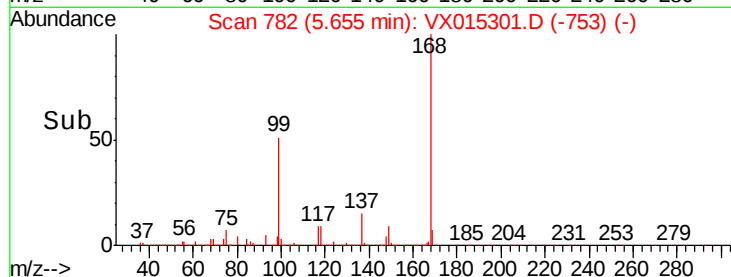
121 0.7 24.6 37.0#



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: 69.265 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015301.D

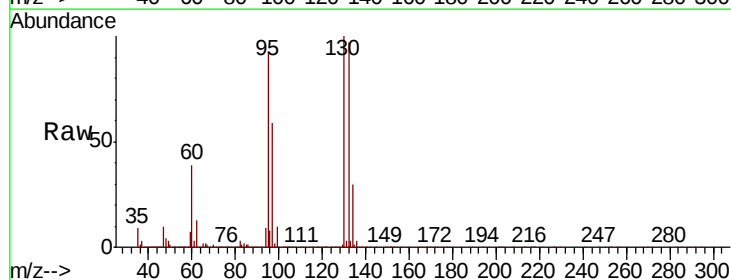
Acq: 16 Mar 2020 17:50

Tgt Ion:130 Resp: 256483

Ion Ratio Lower Upper

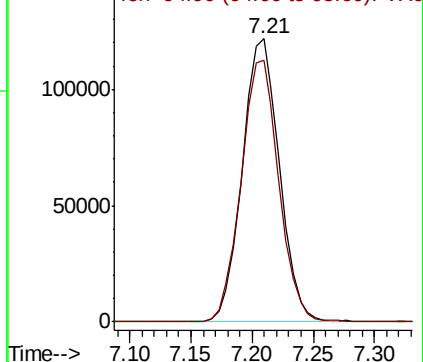
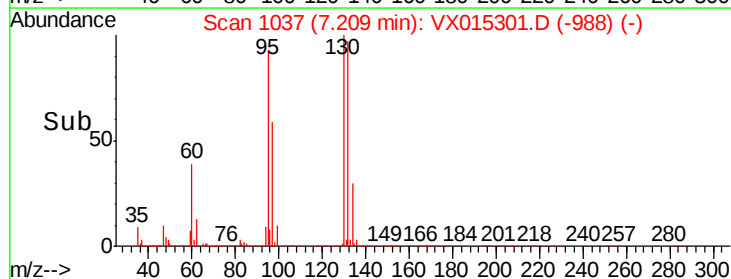
130 100

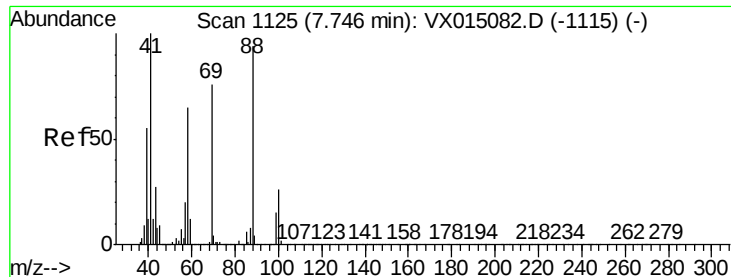
95 92.5 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 7.095 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

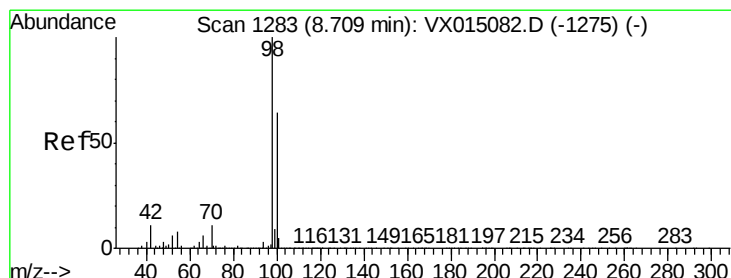
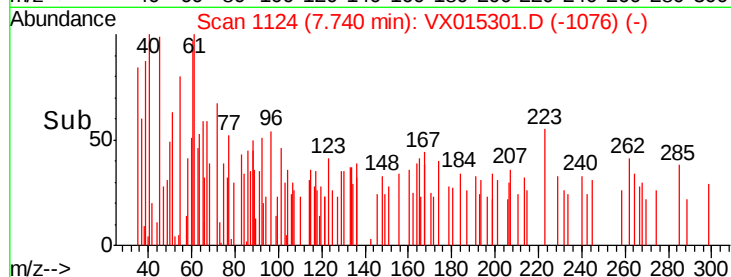
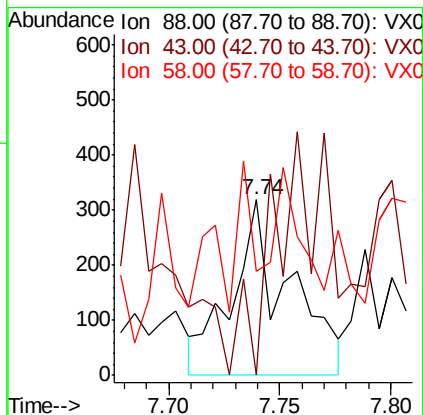
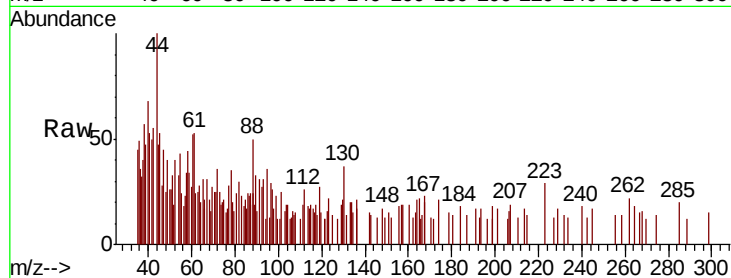
Tot Ion: 88 Resp: 571

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 27.3 55.6 83.4#



#50

Toluene-d8

Concen: 51.229 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015301.D

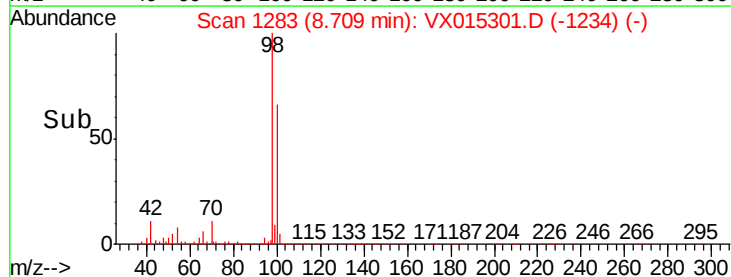
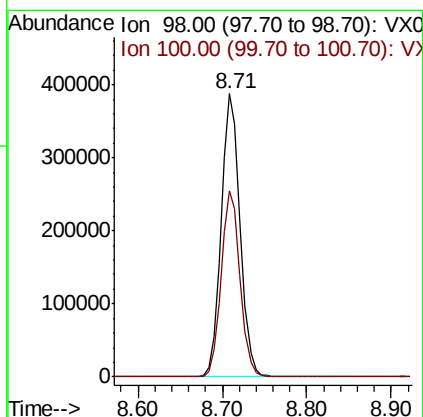
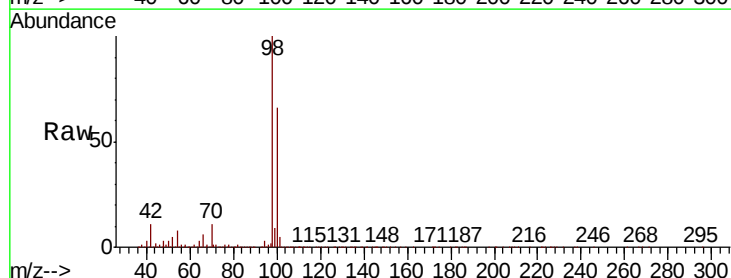
Acq: 16 Mar 2020 17:50

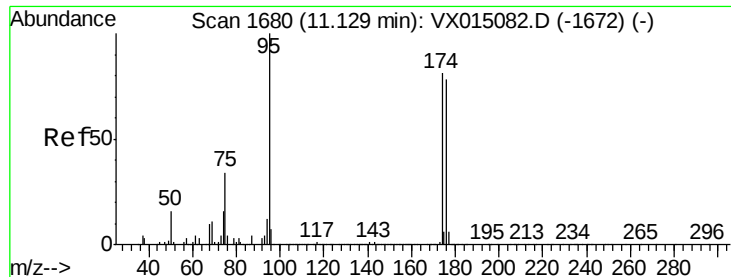
Tgt Ion: 98 Resp: 595969

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 52.592 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

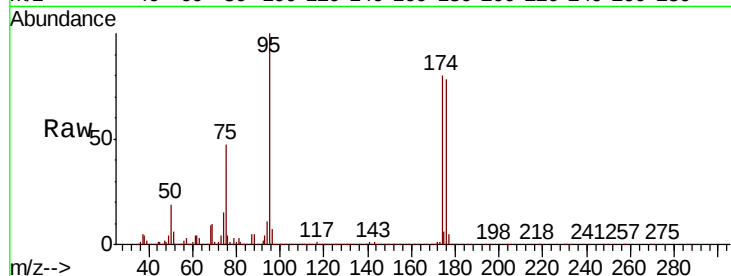
Tot Ion: 95 Resp: 218233

Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.6

176 87.8 0.0 170.2

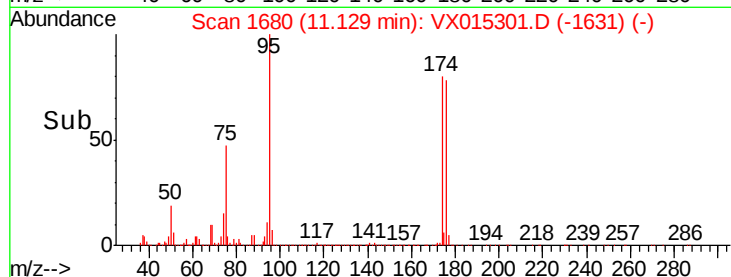


Abundance Ion 94.90 (94.60 to 95.60): VX015301.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX015301.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX015301.D (-1631) (-)

Time-->



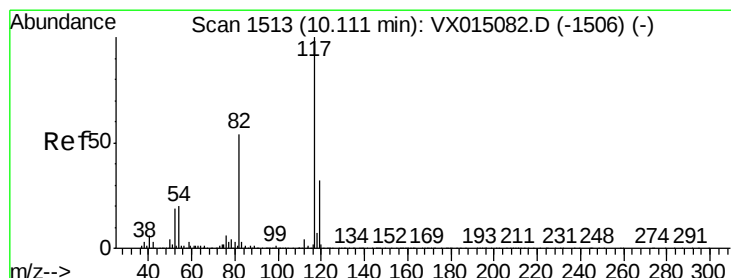
Abundance

Ion 94.90 (94.60 to 95.60): VX015301.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX015301.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX015301.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

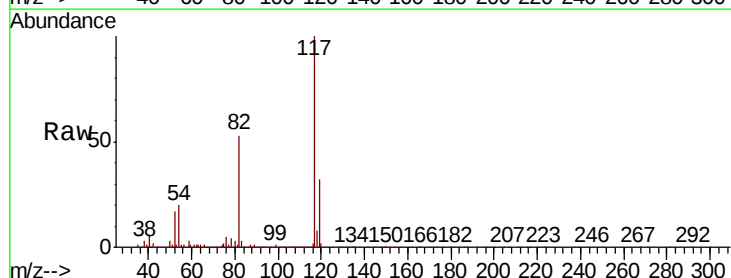
Tgt Ion: 117 Resp: 469631

Ion Ratio Lower Upper

117 100

82 52.9 43.3 64.9

119 32.3 25.8 38.8

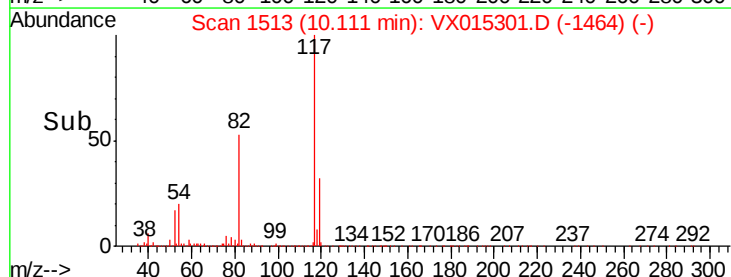


Abundance Ion 116.90 (116.60 to 117.60): VX015301.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX015301.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX015301.D (-1464) (-)

Time-->



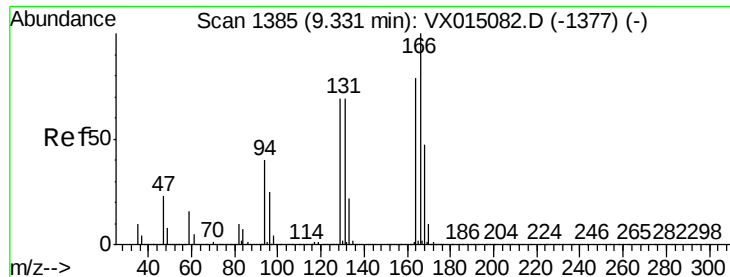
Abundance

Ion 116.90 (116.60 to 117.60): VX015301.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX015301.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX015301.D (-1464) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.523 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX015301.D

Acq: 16 Mar 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20200310DL

Tot Ion:164 Resp: 2029

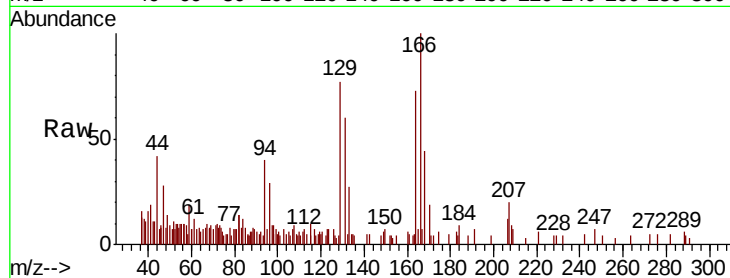
Ion Ratio Lower Upper

164 100

166 137.1 101.1 151.7

129 105.2 69.4 104.0#

131 82.1 69.8 104.8

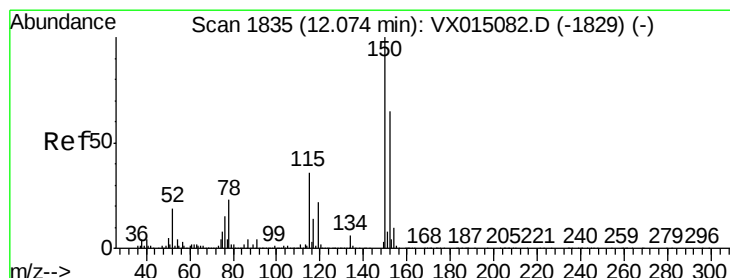
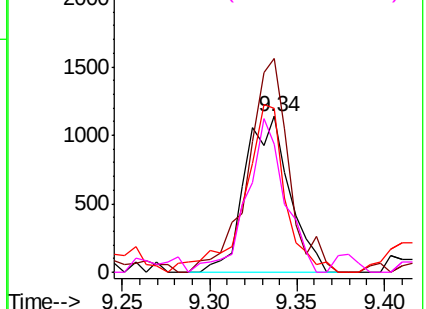
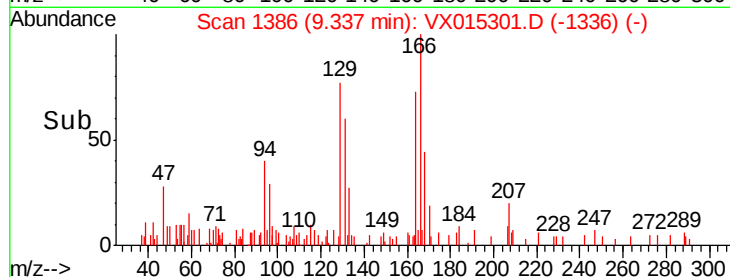


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX015301.D

Acq: 16 Mar 2020 17:50

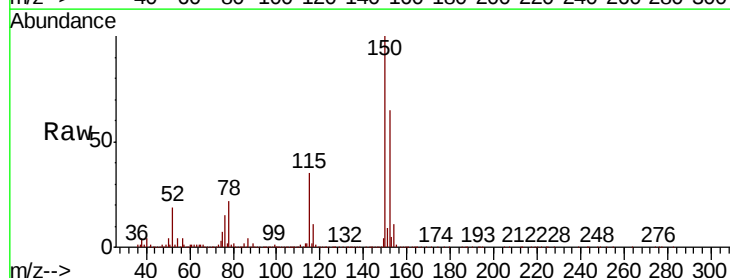
Tgt Ion:152 Resp: 243006

Ion Ratio Lower Upper

152 100

115 54.8 38.2 114.6

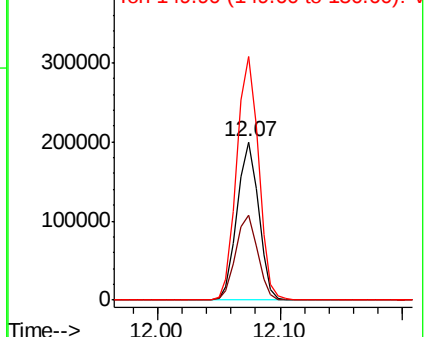
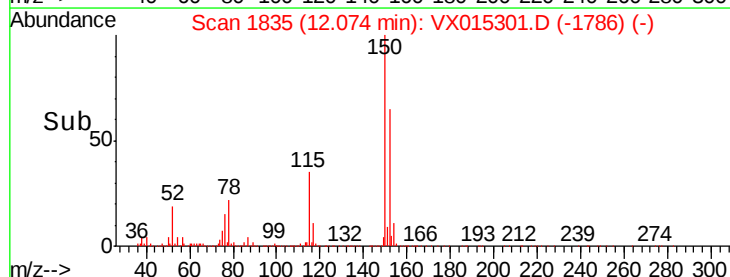
150 156.1 0.0 343.8

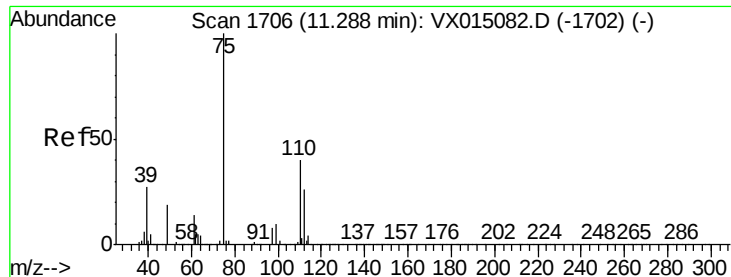


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

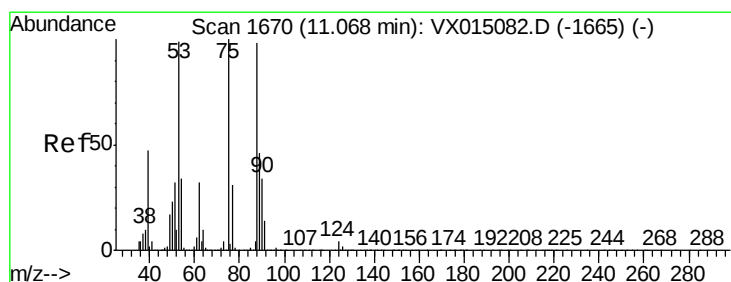
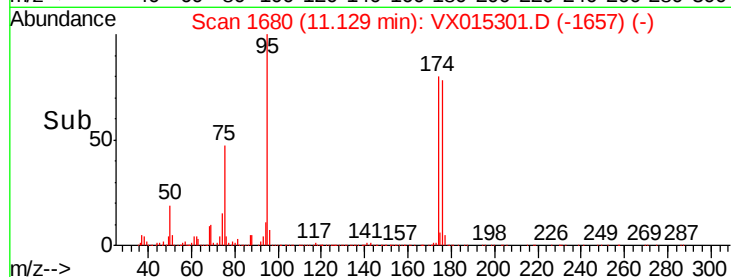
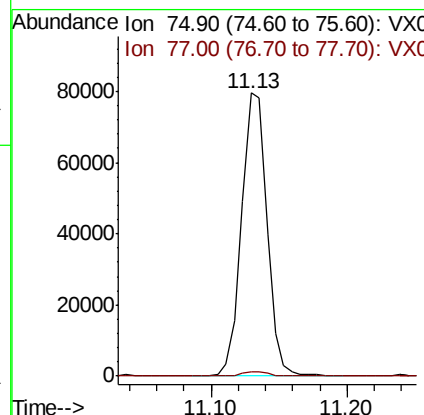
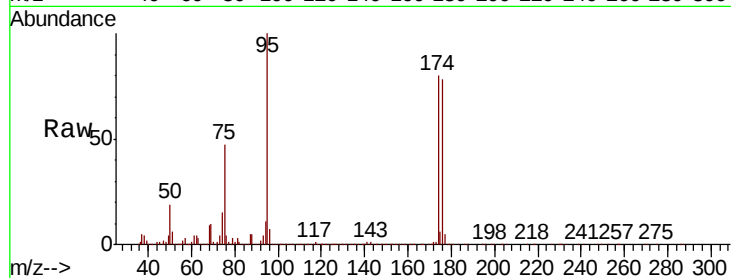




#76
 1,2,3-Trichloropropane
 Concen: 21.345 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015301.D
 Acq: 16 Mar 2020 17:50

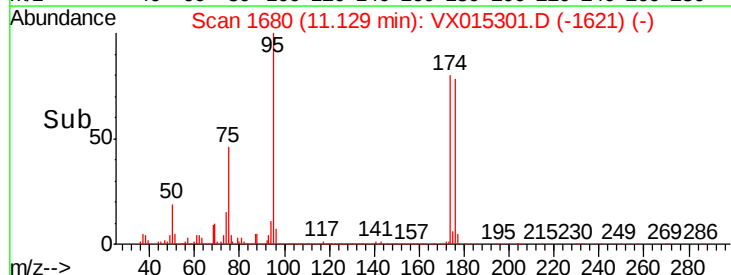
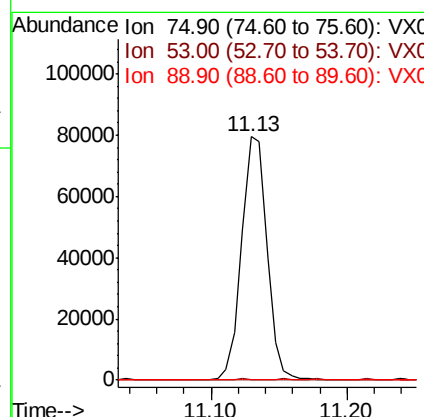
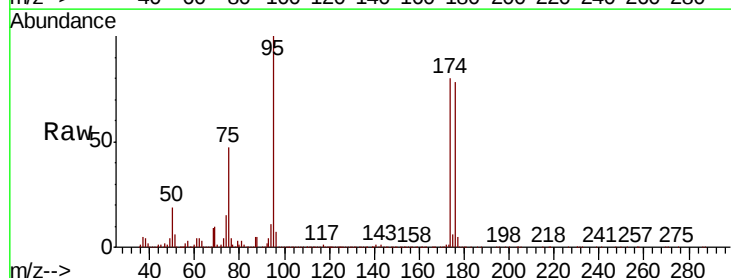
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20200310DL

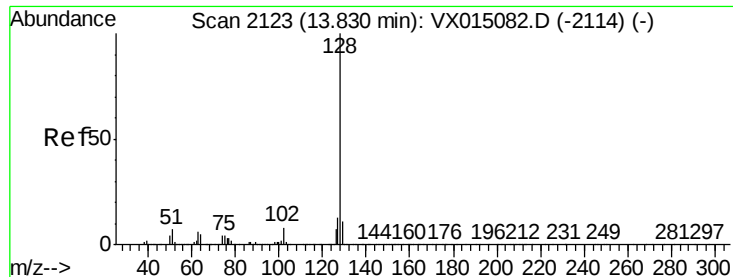
Tot Ion: 75 Resp: 103464
 Ion Ratio Lower Upper
 75 100
 77 1.6 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.577 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015301.D
 Acq: 16 Mar 2020 17:50

Tgt Ion: 75 Resp: 103464
 Ion Ratio Lower Upper
 75 100
 53 0.5 77.9 116.9#
 89 0.1 36.2 54.2#





#95
Naphthalene
Concen: 1.450 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015301.D
Acq: 16 Mar 2020 17:50

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20200310DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	13.7	8.6	13.0

