

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX030920\
 Data File : VX015141.D
 Acq On : 09 Mar 2020 14:36
 Operator : JC/SP
 Sample : L1842-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20200304

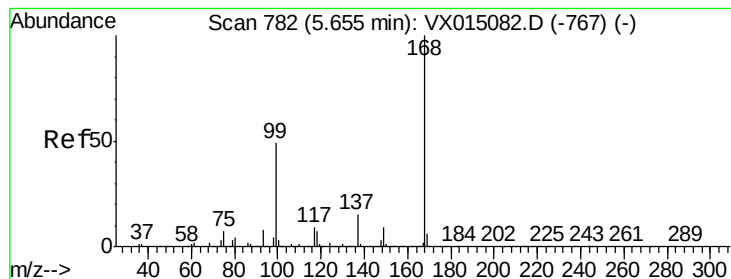
Quant Time: Mar 09 15:09:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	332968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	542139	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	519996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	263942	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	201026	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
35) Dibromofluoromethane	5.49	113	168834	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
50) Toluene-d8	8.71	98	659196	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
62) 4-Bromofluorobenzene	11.13	95	238754	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.19	85	2014	0.69	ug/l	81
3) Chloromethane	1.31	50	1012	0.25	ug/l #	76
5) Bromomethane	1.66	94	559	0.22	ug/l #	77
9) 1,1,2-Trichlorotrifluoroet	2.38	101	20149	6.43	ug/l	99
10) Methyl Iodide	2.53	142	866	0.24	ug/l #	44
11) Tert butyl alcohol	3.07	59	296	0.43	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	3633	1.12	ug/l	97
13) Acrolein	2.30	56	393	0.61	ug/l #	82
15) Acrylonitrile	3.12	53	604	0.35	ug/l #	68
16) Acetone	2.44	43	4639	2.90	ug/l	94
19) Methyl tert-butyl Ether	3.19	73	15674	1.55	ug/l	99
22) Diisopropyl ether	3.85	45	7883	0.70	ug/l #	84
24) 1,1-Dichloroethane	3.70	63	5513	0.88	ug/l #	85
27) cis-1,2-Dichloroethene	4.59	96	7814	2.02	ug/l	81
29) Tetrahydrofuran	5.13	42	884	0.59	ug/l #	49
30) Chloroform	5.20	83	12286	2.02	ug/l	84
36) 1,1-Dichloropropene	5.65	75	23201	4.63	ug/l #	51
38) Carbon Tetrachloride	5.65	117	30476	6.44	ug/l #	18
42) 1,2-Dichloroethane	6.20	62	1306	0.26	ug/l #	69
44) Trichloroethene	7.21	130	468686	113.18	ug/l	100
49) 1,4-Dioxane	7.76	88	1161	12.90	ug/l #	37
60) Dibromochloromethane	9.34	129	11905	3.03	ug/l #	13
64) Tetrachloroethene	9.33	164	13172	3.06	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	117217	22.26	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	117217	63.19	ug/l #	11
95) Naphthalene	13.84	128	927	1.47	ug/l #	72

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

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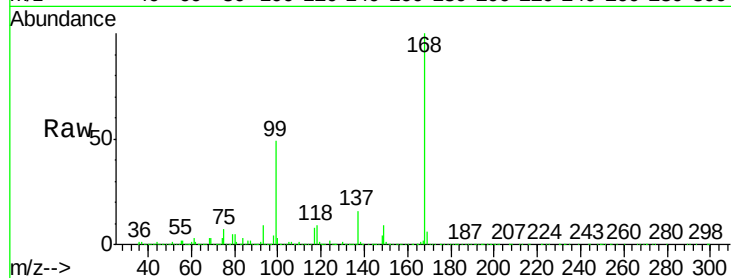
RE132D1-20200304

Tgt Ion:168 Resp: 332968

Ion Ratio Lower Upper

168 100

99 48.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

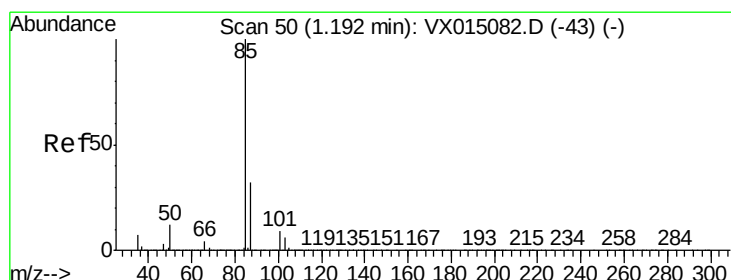
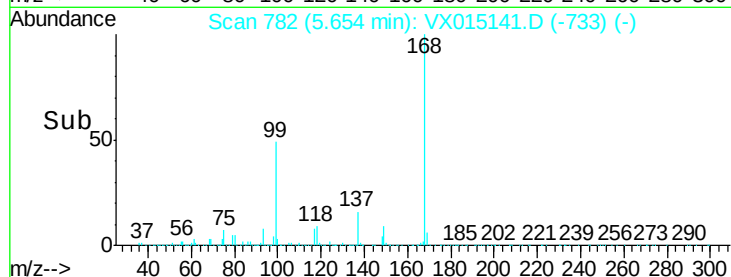
5.65

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.69 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015141.D

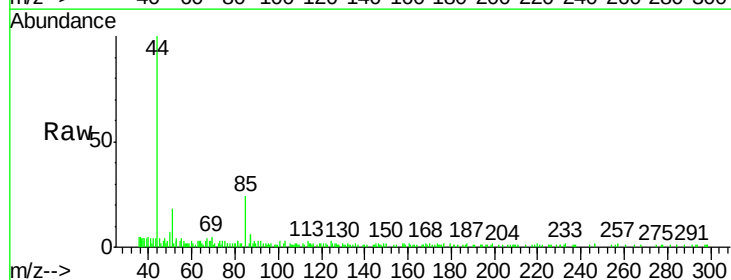
Acq: 09 Mar 2020 14:36

Tgt Ion: 85 Resp: 2014

Ion Ratio Lower Upper

85 100

87 43.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

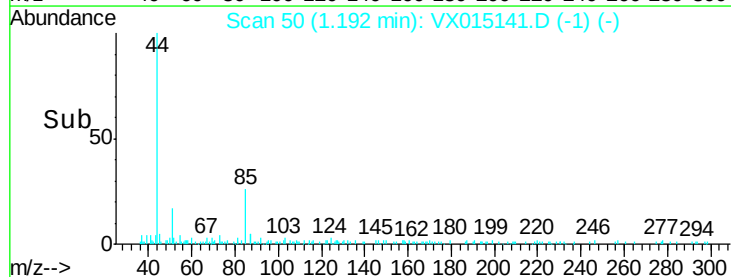
1500

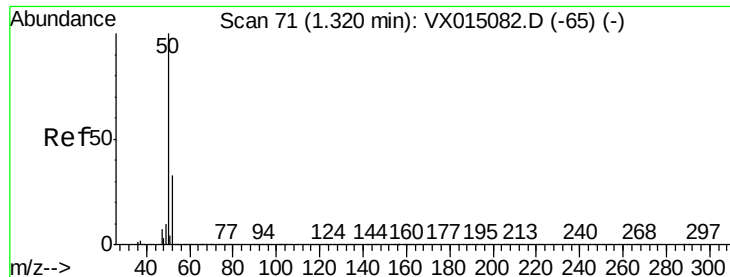
1000

500

0

Time--> 1.15 1.20 1.25

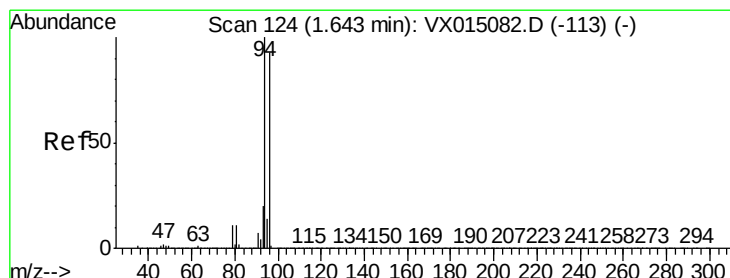
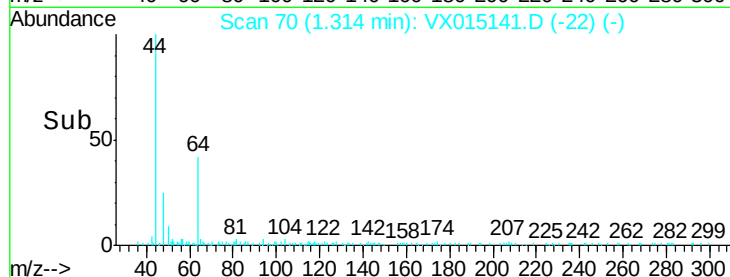
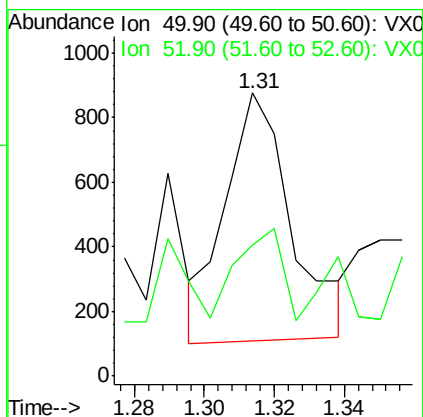
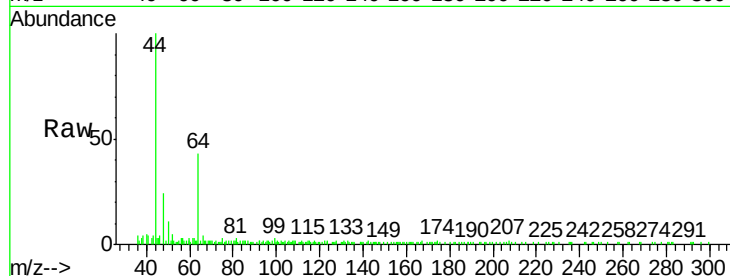




#3
Chloromethane
Concen: 0.25 ug/l
RT: 1.31 min Scan# 70
Delta R.T. -0.01 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

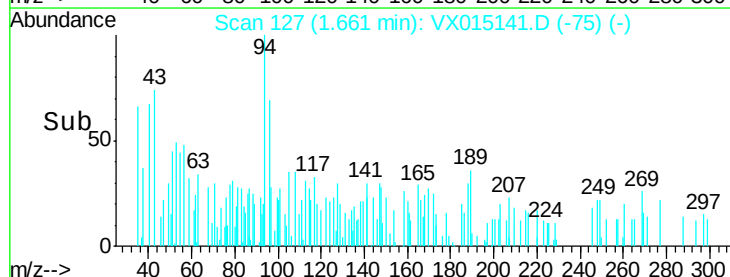
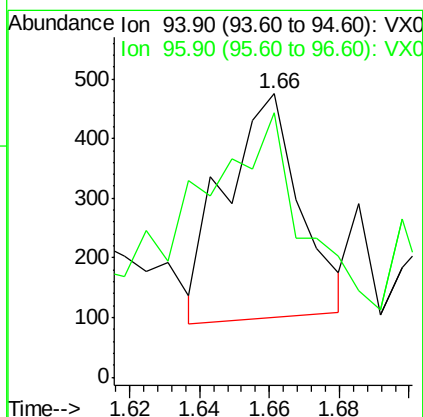
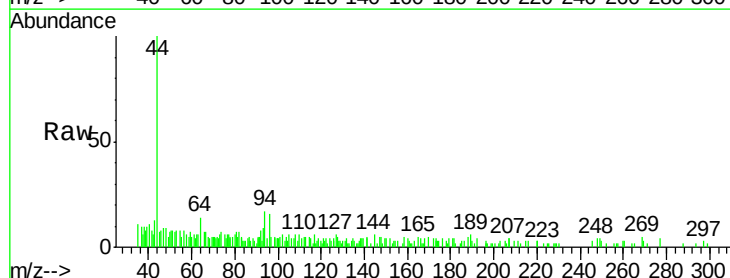
Instrument :
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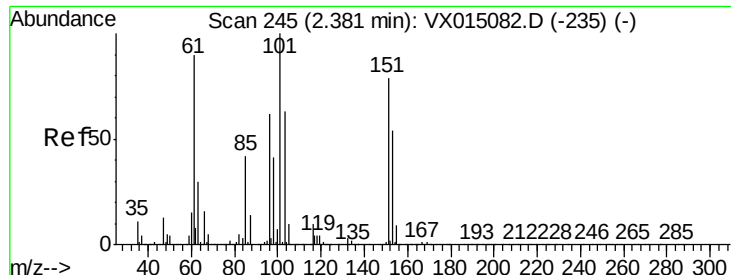
Tgt Ion: 50 Resp: 1012
Ion Ratio Lower Upper
50 100
52 19.4 26.2 39.2#



#5
Bromomethane
Concen: 0.22 ug/l
RT: 1.66 min Scan# 127
Delta R.T. 0.02 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion: 94 Resp: 559
Ion Ratio Lower Upper
94 100
96 71.3 74.6 111.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.43 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

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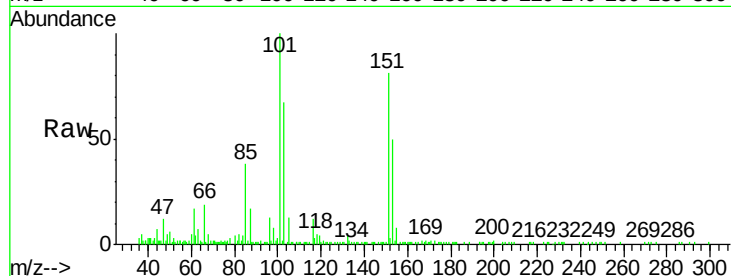
Tgt Ion:101 Resp: 20149

Ion Ratio Lower Upper

101 100

85 41.0 33.7 50.5

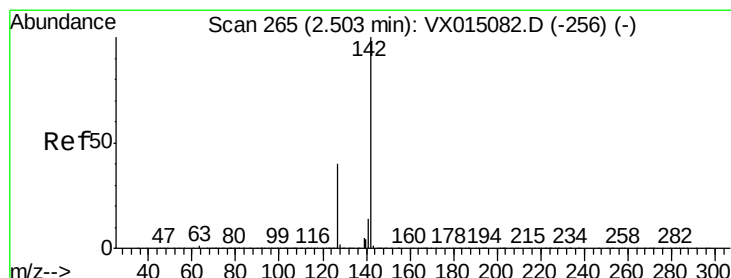
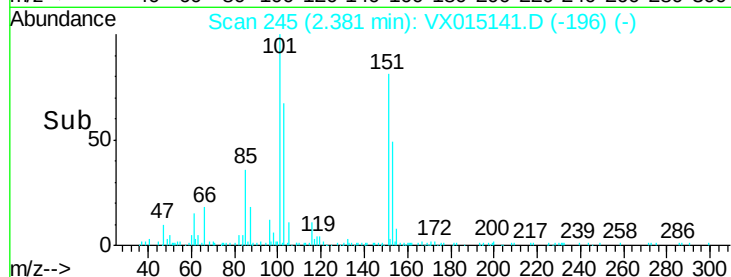
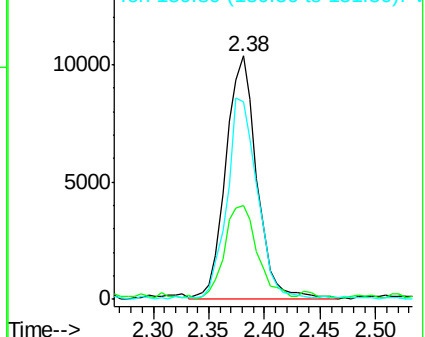
151 79.0 64.0 96.0



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



#10

Methyl Iodide

Concen: 0.24 ug/l

RT: 2.53 min Scan# 269

Delta R.T. 0.02 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

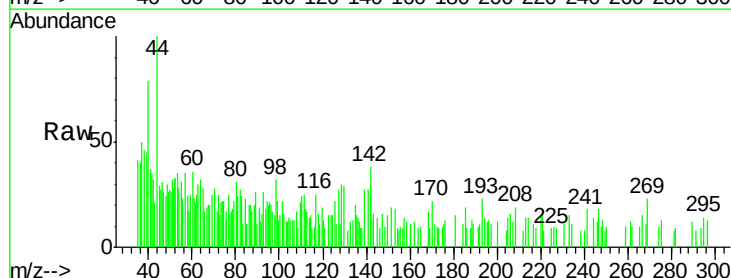
Tgt Ion:142 Resp: 866

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

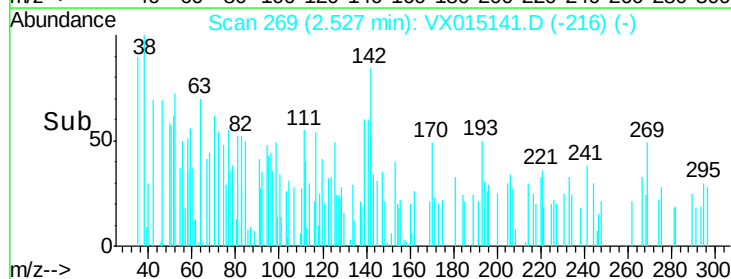
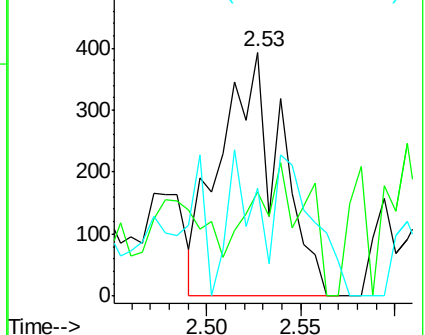
141 27.4 11.3 16.9#

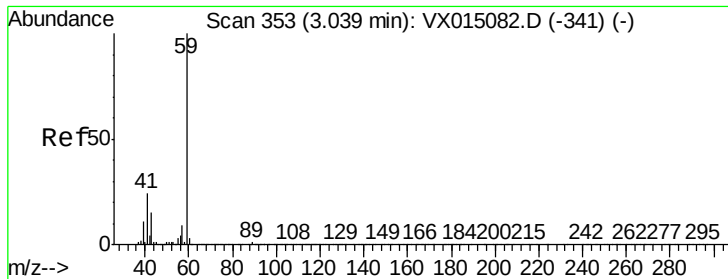


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



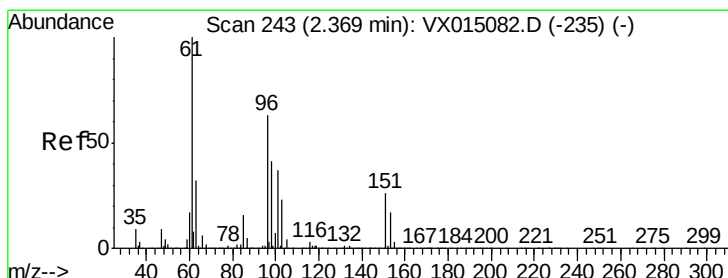
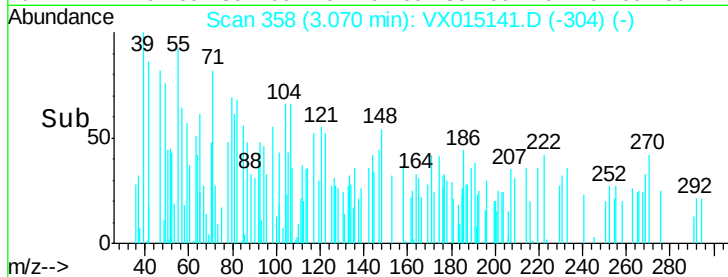
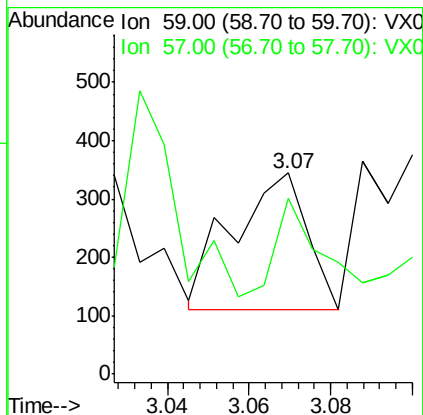
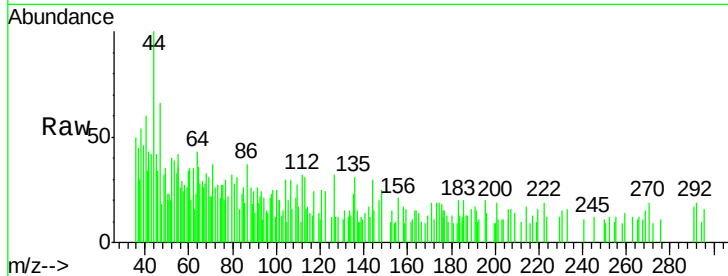


#11

Tert butyl alcohol
Concen: 0.43 ug/l
RT: 3.07 min Scan# 358
Delta R.T. 0.03 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Instrument :
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ClientSampleId :
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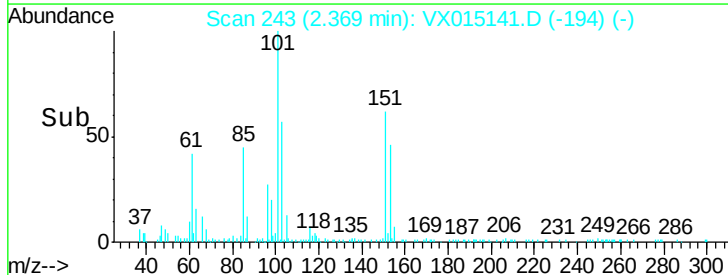
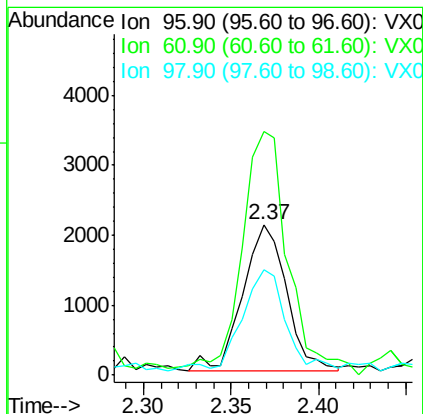
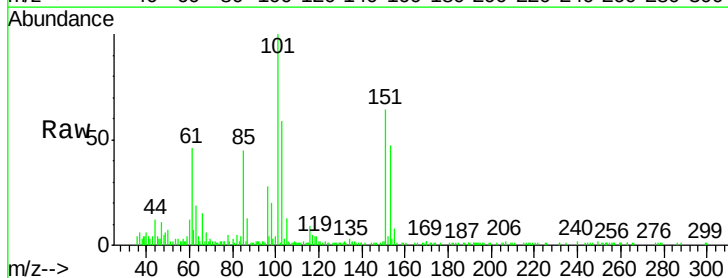
Tgt Ion: 59 Resp: 296
Ion Ratio Lower Upper
59 100
57 202.7 8.2 12.4#

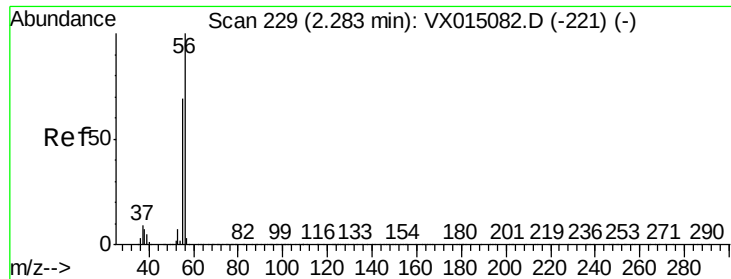


#12

1,1-Dichloroethene
Concen: 1.12 ug/l
RT: 2.37 min Scan# 243
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion: 96 Resp: 3633
Ion Ratio Lower Upper
96 100
61 160.5 126.2 189.4
98 67.9 51.4 77.0

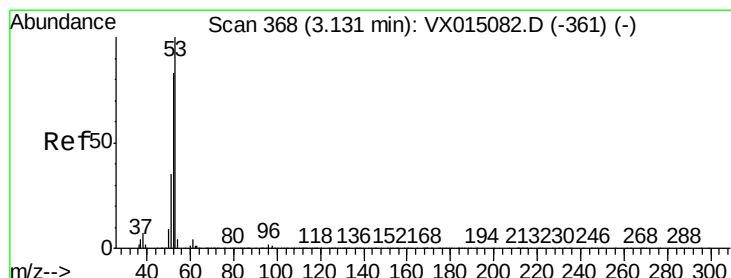
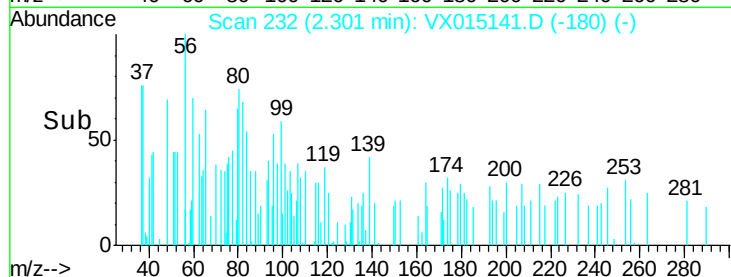
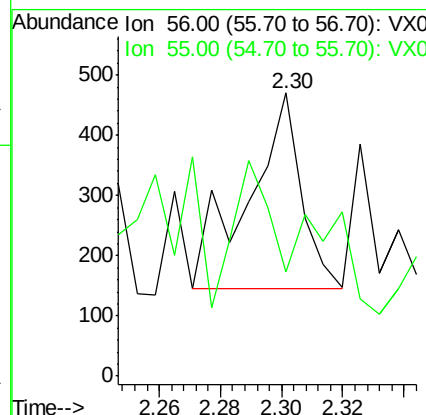
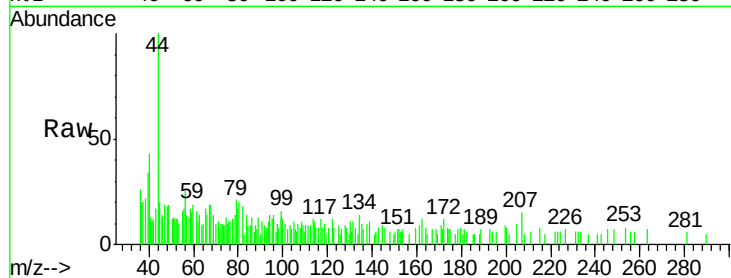




#13
Acrolein
Concen: 0.61 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

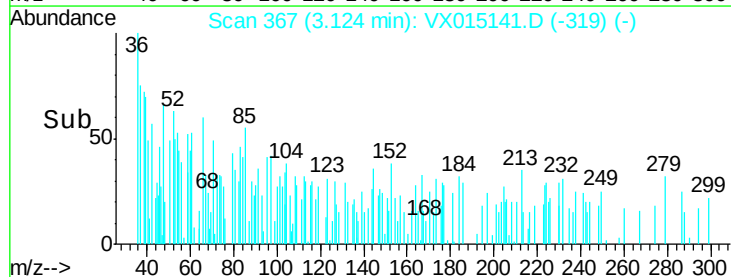
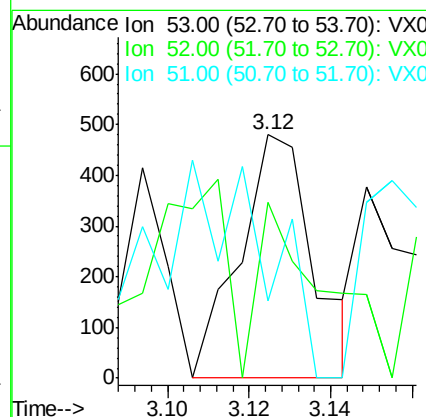
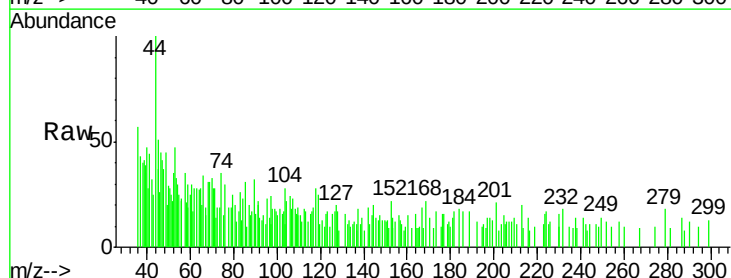
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20200304

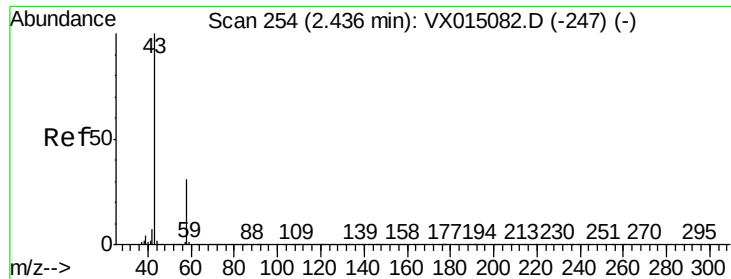
Tgt Ion: 56 Resp: 393
Ion Ratio Lower Upper
56 100
55 54.5 55.4 83.0#



#15
Acrylonitrile
Concen: 0.35 ug/l
RT: 3.12 min Scan# 367
Delta R.T. -0.01 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion: 53 Resp: 604
Ion Ratio Lower Upper
53 100
52 65.6 66.6 100.0#
51 0.0 29.0 43.6#





#16

Acetone

Concen: 2.90 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

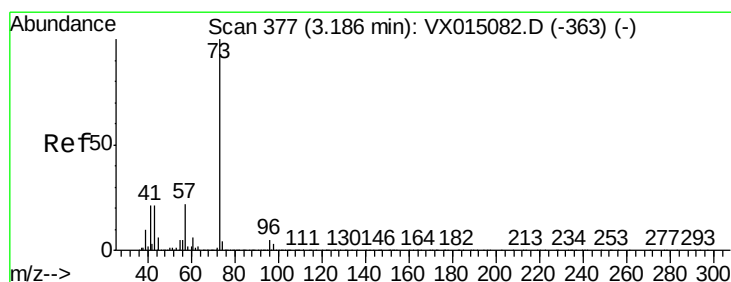
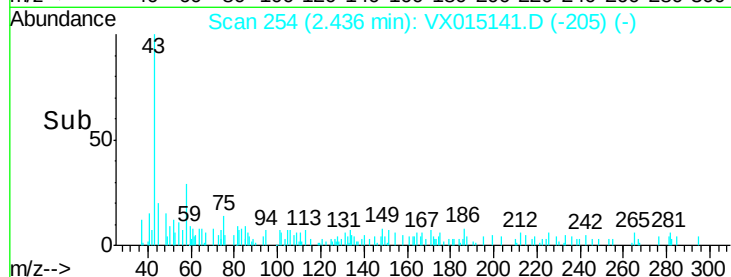
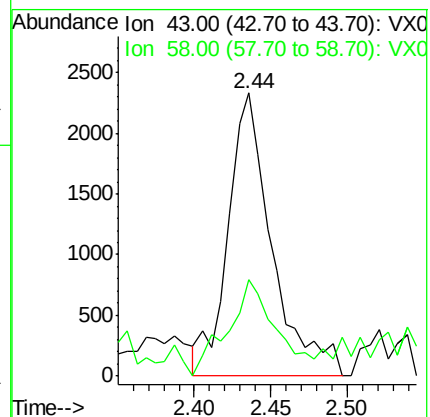
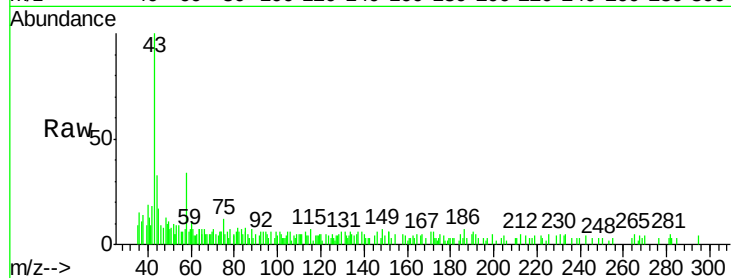
RE132D1-20200304

Tgt Ion: 43 Resp: 4639

Ion Ratio Lower Upper

43 100

58 34.2 24.8 37.2



#19

Methyl tert-butyl Ether

Concen: 1.55 ug/l

RT: 3.19 min Scan# 377

Delta R.T. -0.00 min

Lab File: VX015141.D

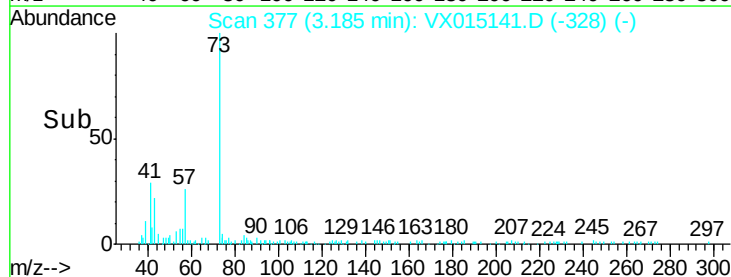
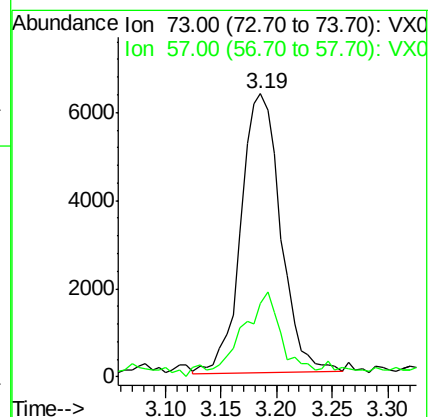
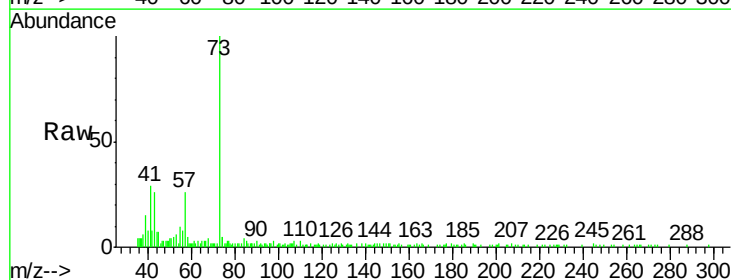
Acq: 09 Mar 2020 14:36

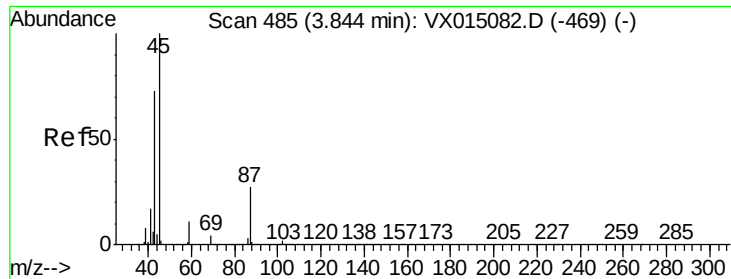
Tgt Ion: 73 Resp: 15674

Ion Ratio Lower Upper

73 100

57 22.9 17.8 26.6

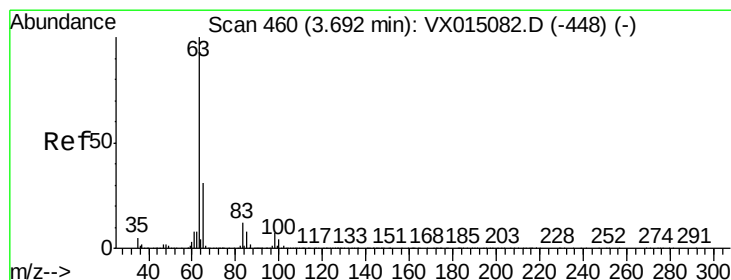
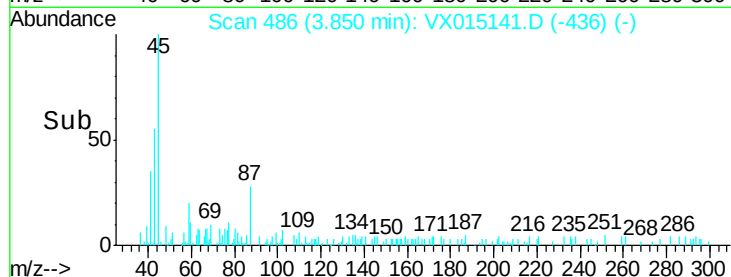
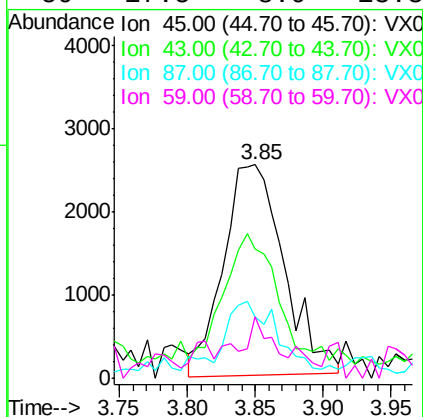
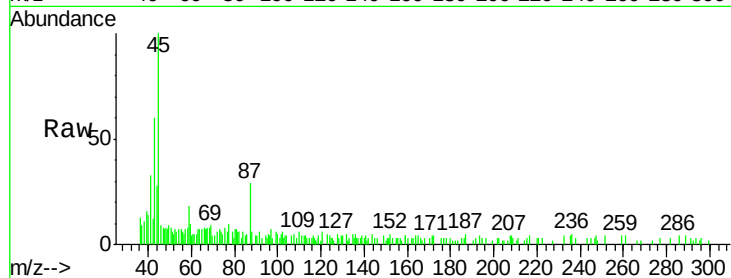




#22
Diisopropyl ether
Concen: 0.70 ug/l
RT: 3.85 min Scan# 486
Delta R.T. 0.01 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

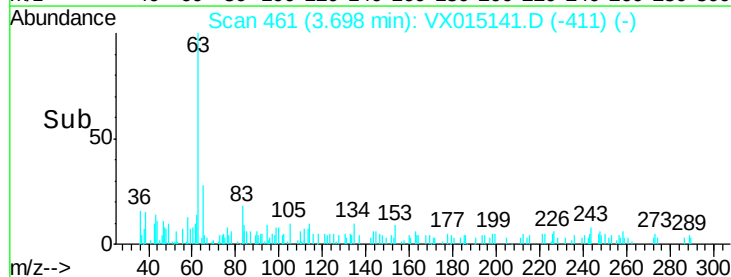
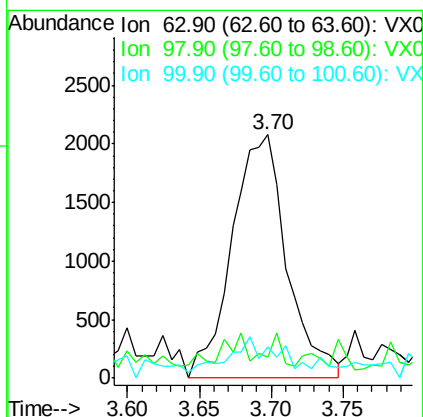
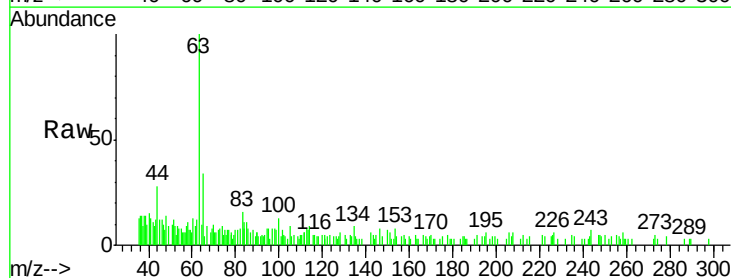
Instrument :
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RE132D1-20200304

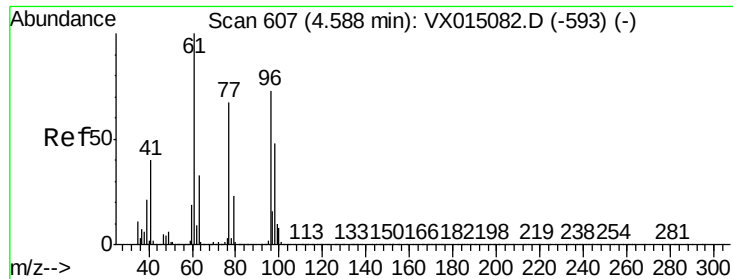
Tgt Ion:	45	Resp:	7883
Ion	Ratio	Lower	Upper
45	100		
43	54.9	58.2	87.2#
87	26.1	21.2	31.8
59	17.5	8.9	13.3#



#24
1,1-Dichloroethane
Concen: 0.88 ug/l
RT: 3.70 min Scan# 461
Delta R.T. 0.01 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion:	63	Resp:	5513
Ion	Ratio	Lower	Upper
63	100		
98	3.1	3.7	11.1#
100	10.6	2.1	6.5#





#27

cis-1,2-Dichloroethene

Concen: 2.02 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20200304

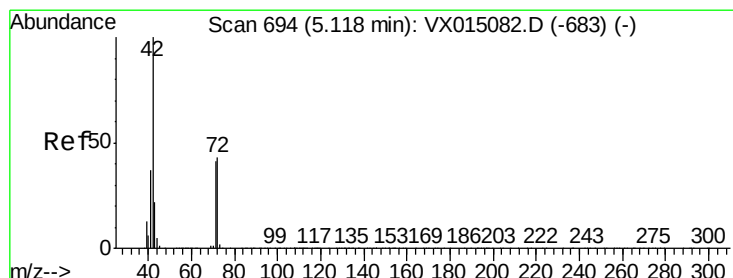
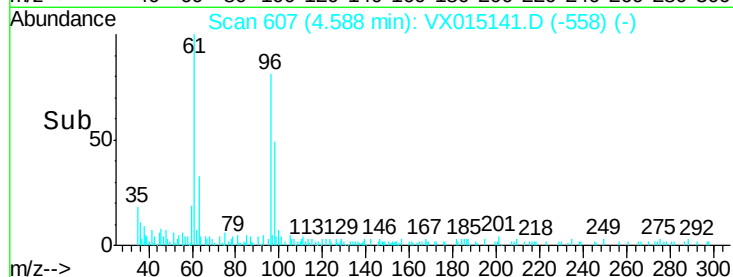
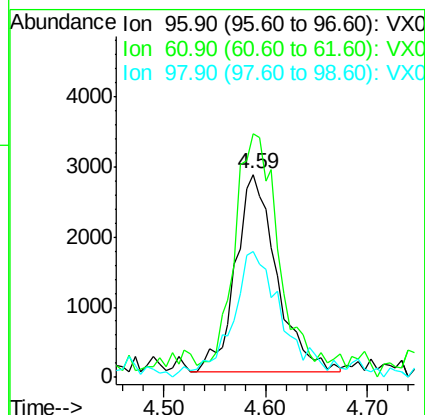
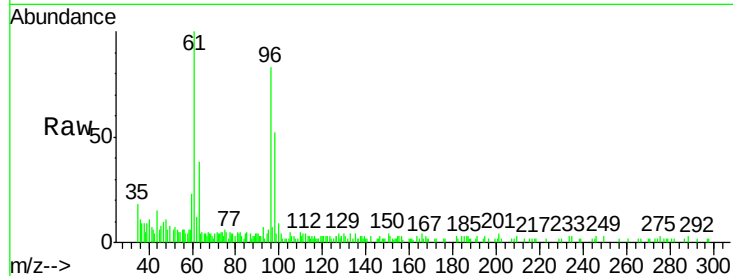
Tgt Ion: 96 Resp: 7814

Ion Ratio Lower Upper

96 100

61 117.8 0.0 286.8

98 77.2 0.0 128.4



#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

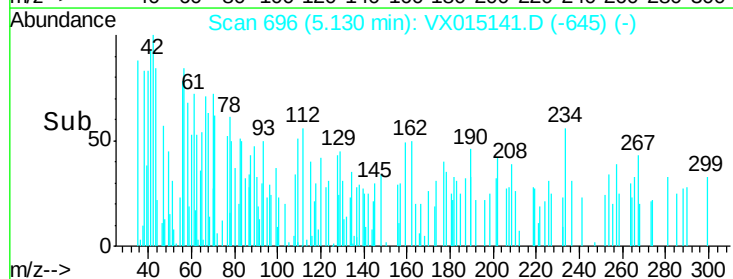
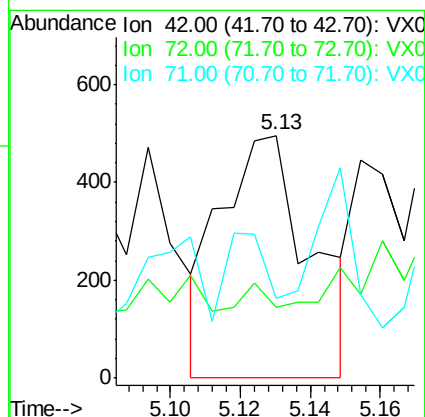
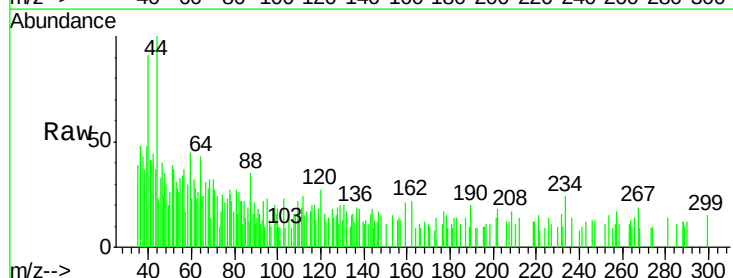
Tgt Ion: 42 Resp: 884

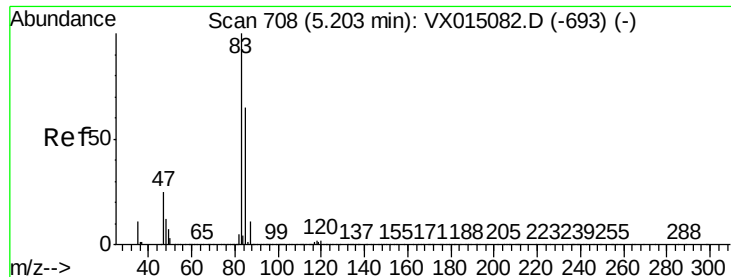
Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

71 21.5 33.3 49.9#

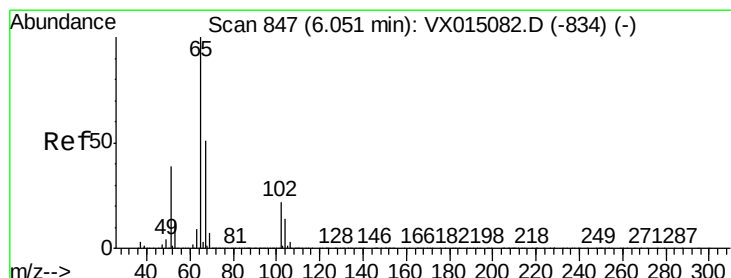
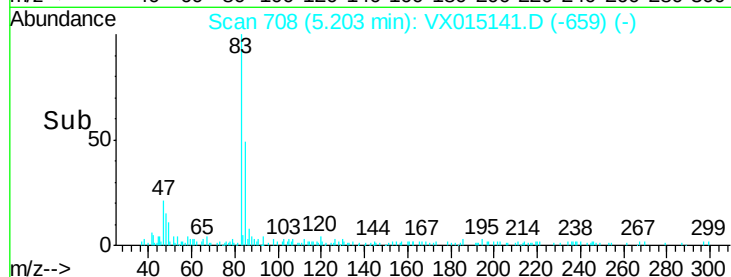
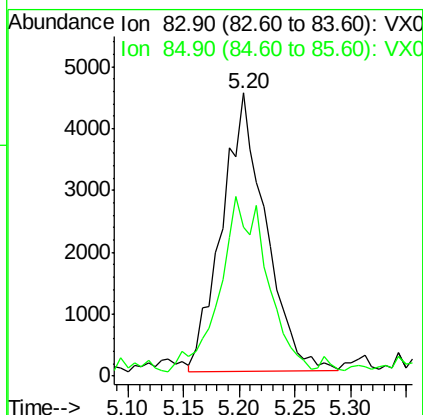
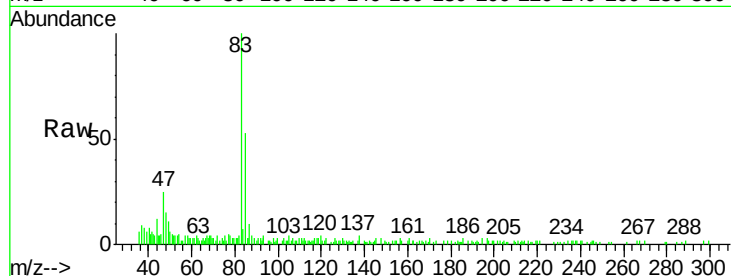




#30
Chloroform
Concen: 2.02 ug/l
RT: 5.20 min Scan# 708
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

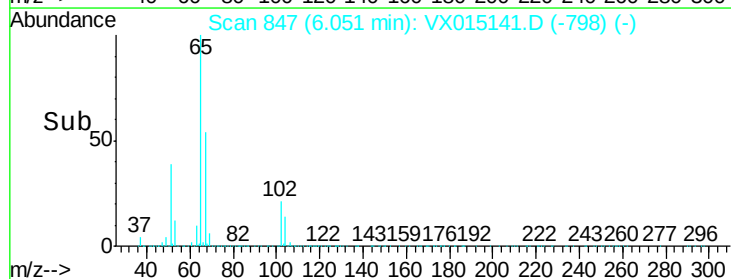
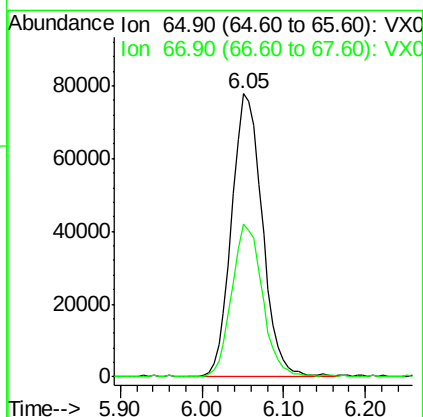
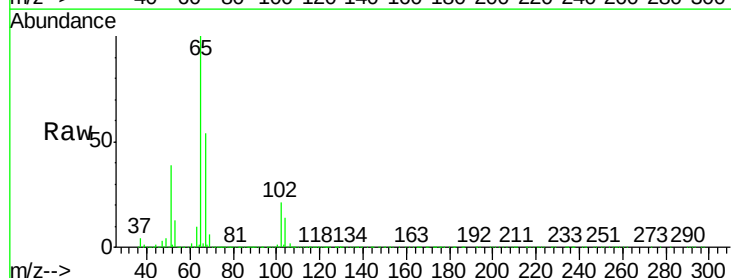
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20200304

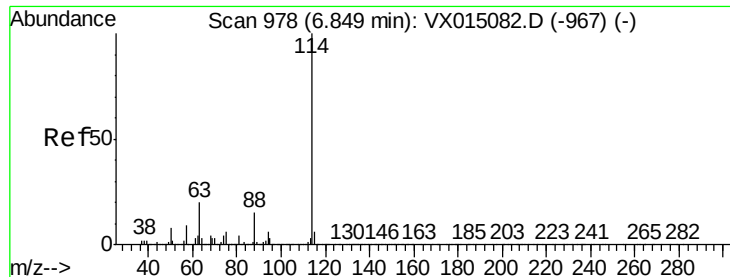
Tgt Ion: 83 Resp: 12286
Ion Ratio Lower Upper
83 100
85 52.0 52.0 78.0



#33
1,2-Dichloroethane-d4
Concen: 50.89 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion: 65 Resp: 201026
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20200304

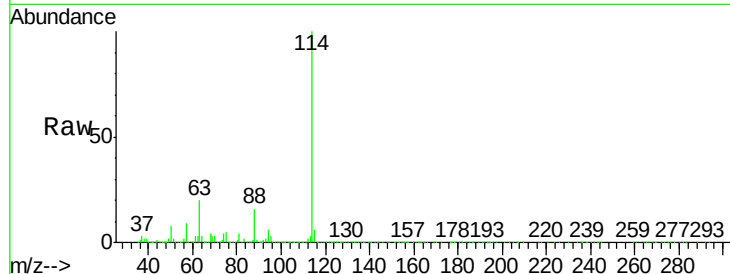
Tgt Ion:114 Resp: 542139

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

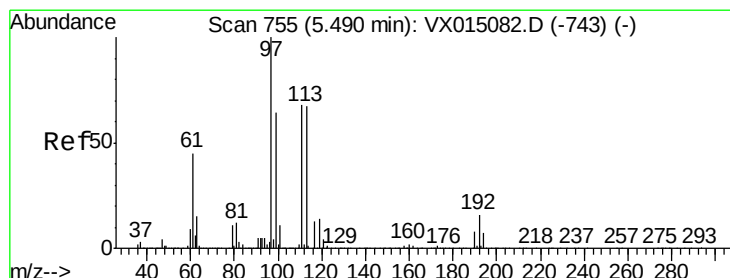
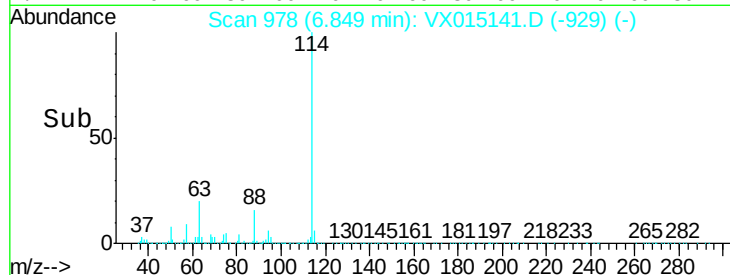
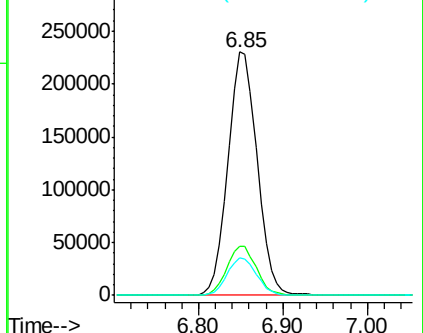
88 15.6 0.0 30.6



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: 49.36 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

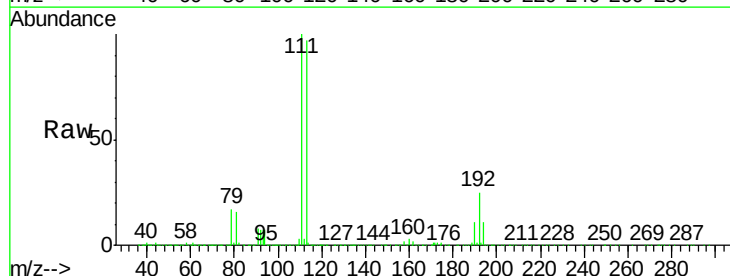
Tgt Ion:113 Resp: 168834

Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

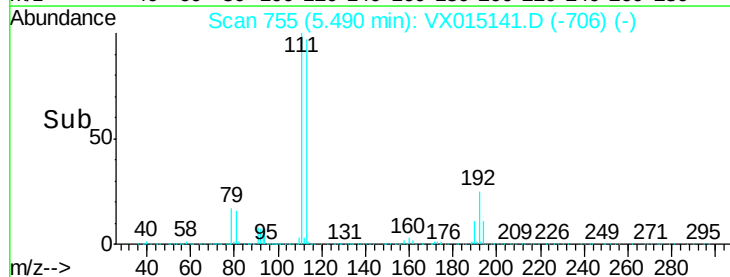
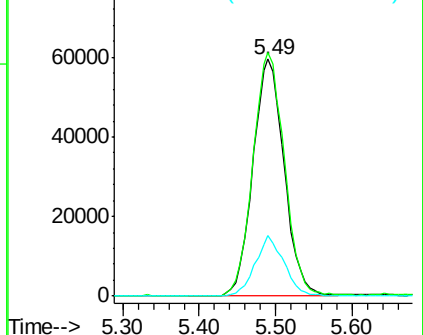
192 23.8 18.6 28.0

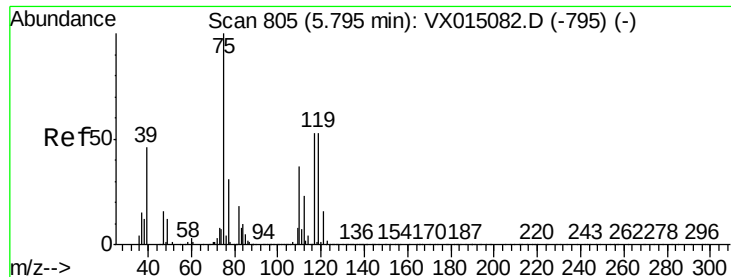


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

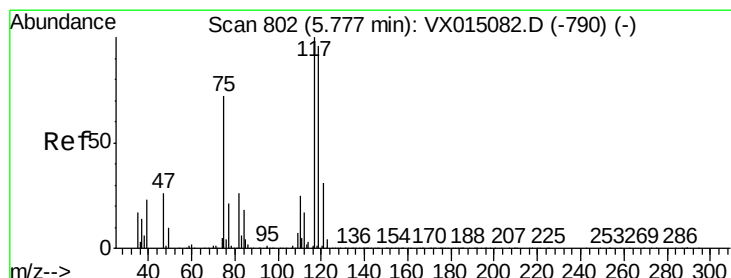
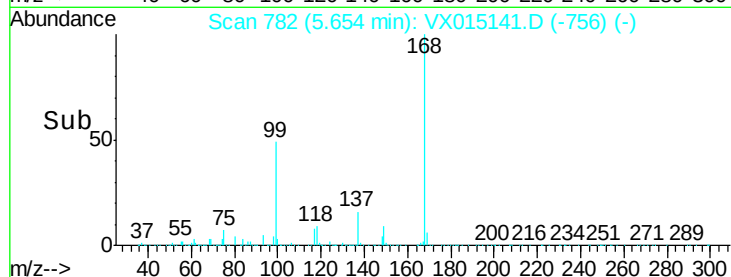
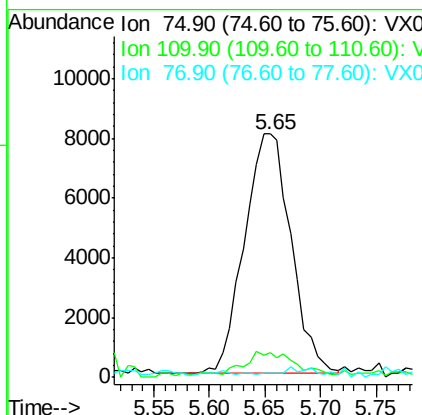
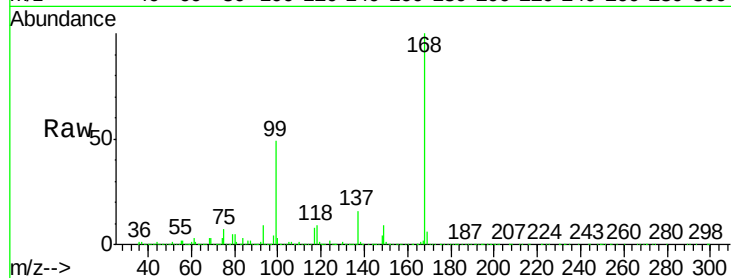




#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015141.D
 Acq: 09 Mar 2020 14:36

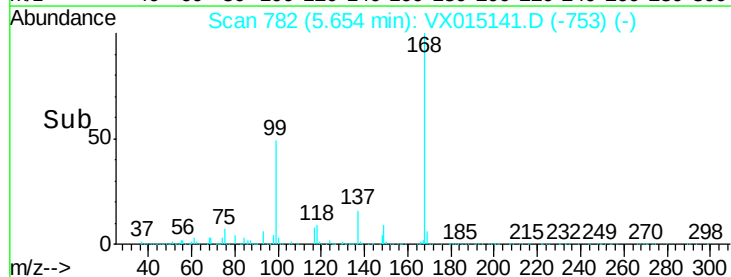
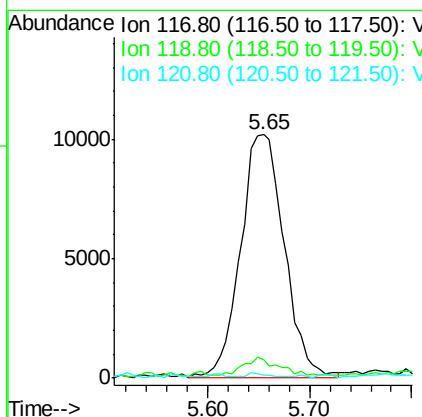
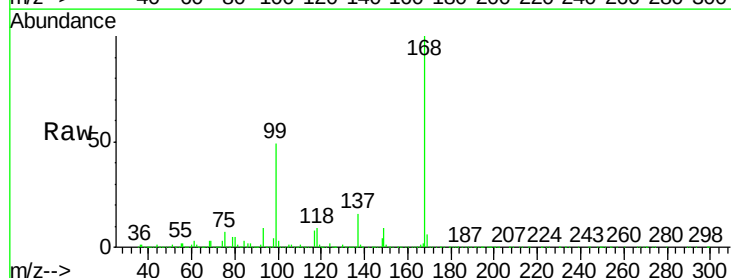
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20200304

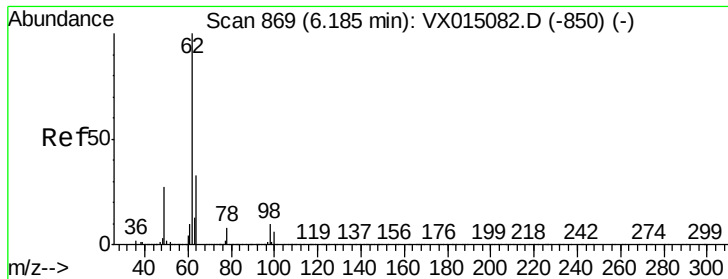
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.9	53.8#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.44 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX015141.D
 Acq: 09 Mar 2020 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	76.9	115.3#
121	1.3	24.6	37.0#





#42

1,2-Dichloroethane

Concen: 0.26 ug/l

RT: 6.20 min Scan# 872

Delta R.T. 0.02 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

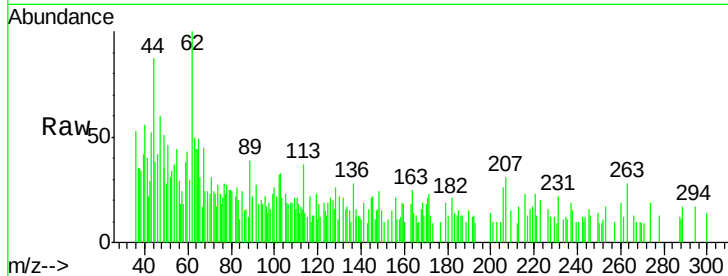
RE132D1-20200304

Tgt Ion: 62 Resp: 1306

Ion Ratio Lower Upper

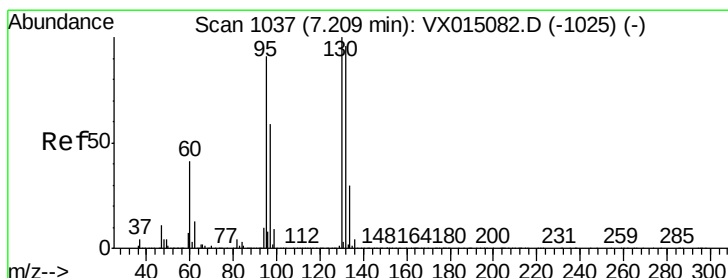
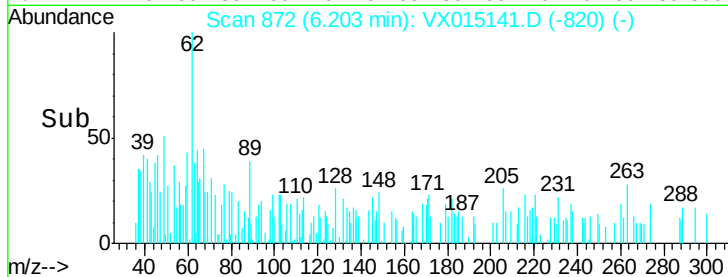
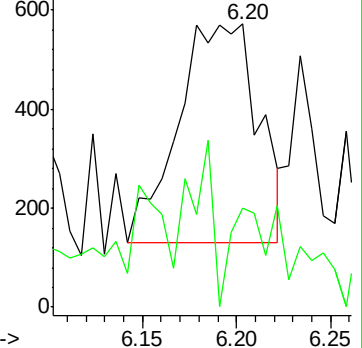
62 100

98 21.9 0.0 20.6#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 113.18 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015141.D

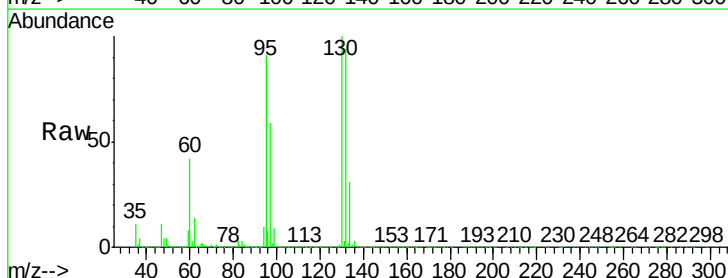
Acq: 09 Mar 2020 14:36

Tgt Ion: 130 Resp: 468686

Ion Ratio Lower Upper

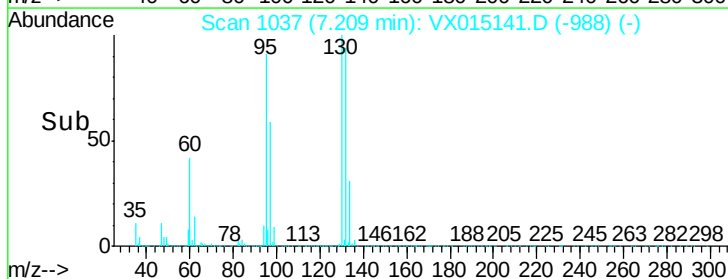
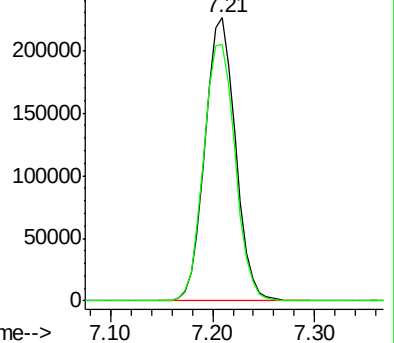
130 100

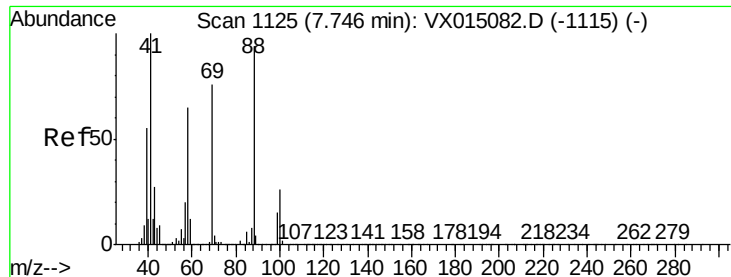
95 90.6 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

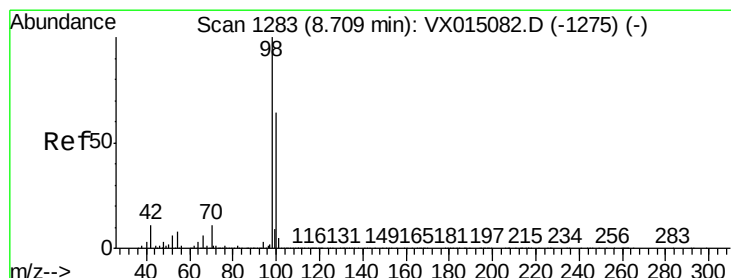
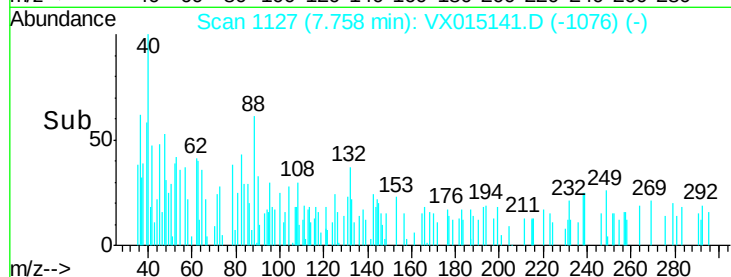
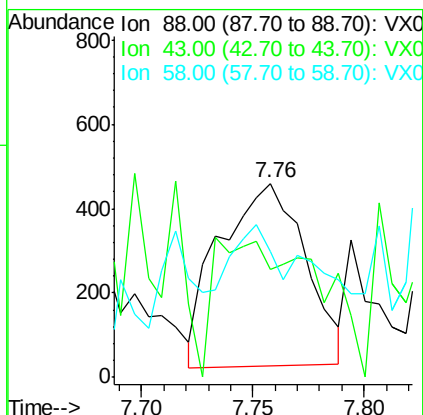
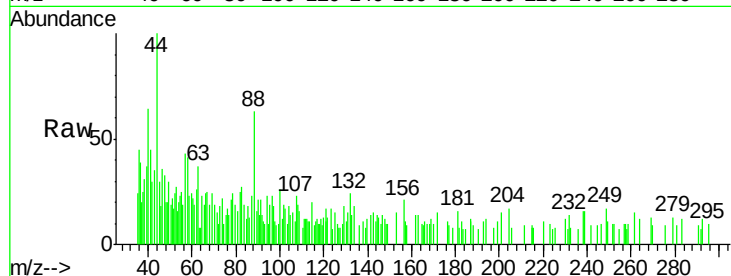




#49
1,4-Dioxane
Concen: 12.90 ug/l
RT: 7.76 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

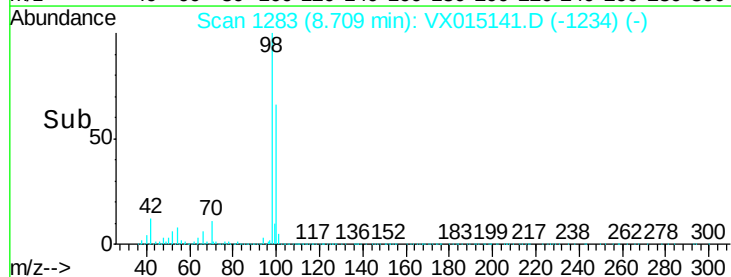
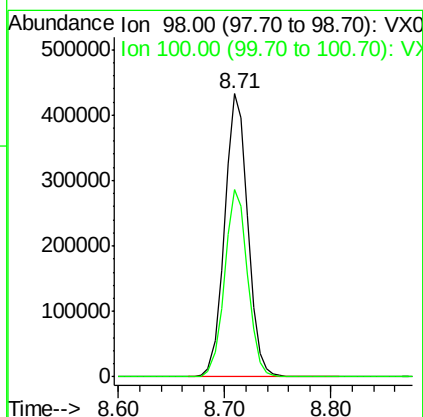
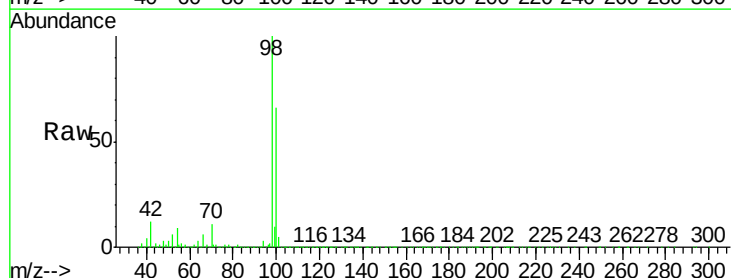
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20200304

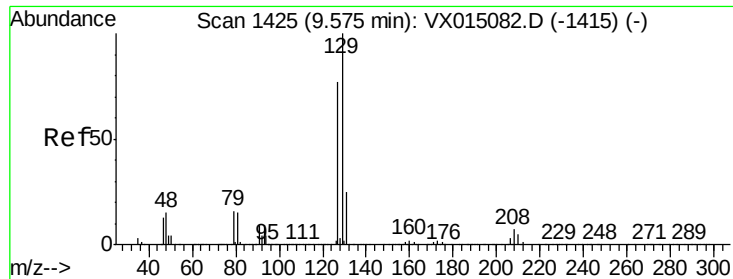
Tgt Ion: 88 Resp: 1161
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 15.8 55.6 83.4#



#50
Toluene-d8
Concen: 50.67 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion: 98 Resp: 659196
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6





#60

Dibromochloromethane

Concen: 3.03 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

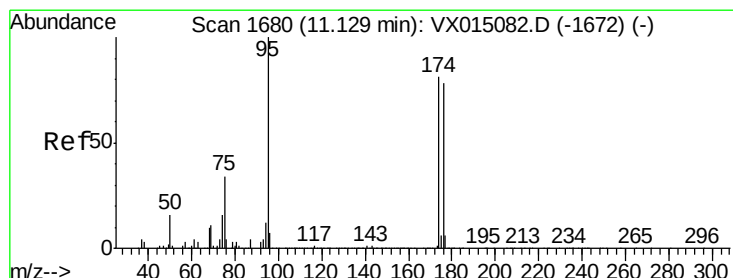
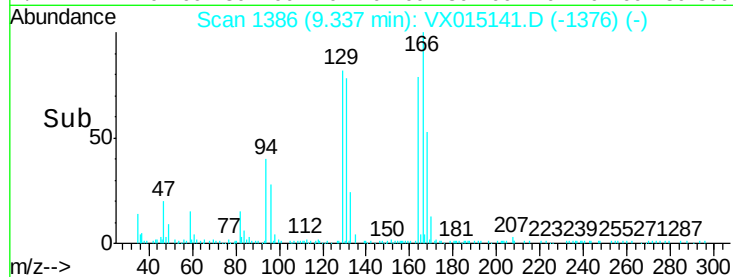
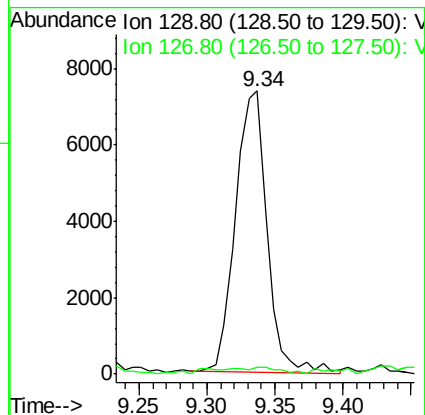
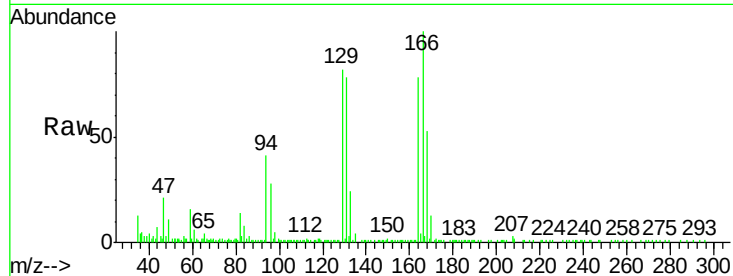
RE132D1-20200304

Tgt Ion:129 Resp: 11905

Ion Ratio Lower Upper

129 100

127 2.2 38.8 116.3#



#62

4-Bromofluorobenzene

Concen: 51.45 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

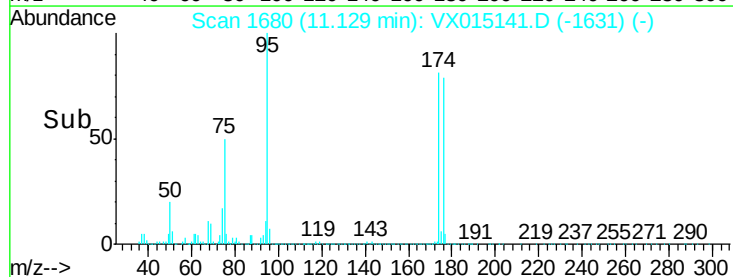
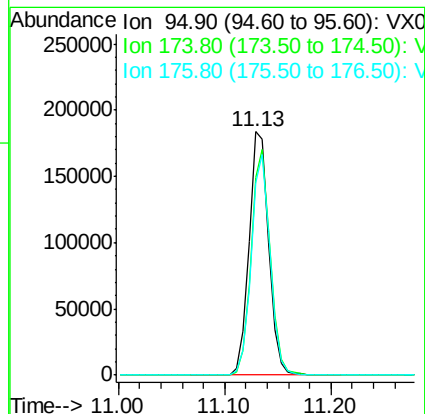
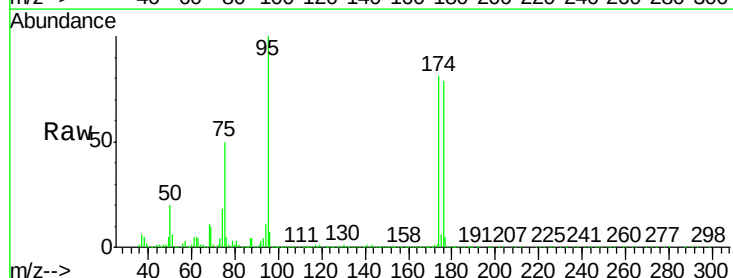
Tgt Ion: 95 Resp: 238754

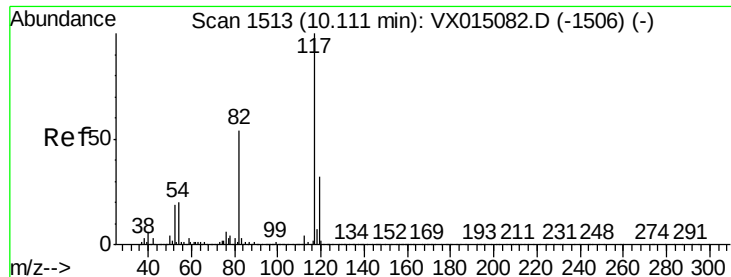
Ion Ratio Lower Upper

95 100

174 89.6 0.0 177.6

176 87.1 0.0 170.2

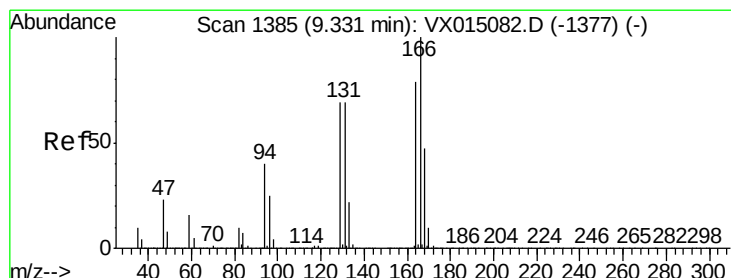
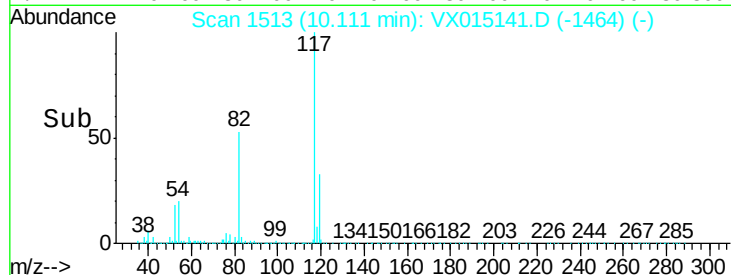
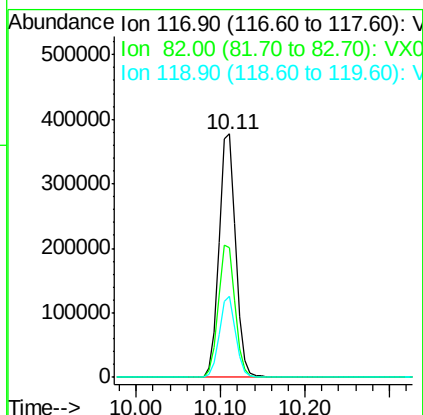
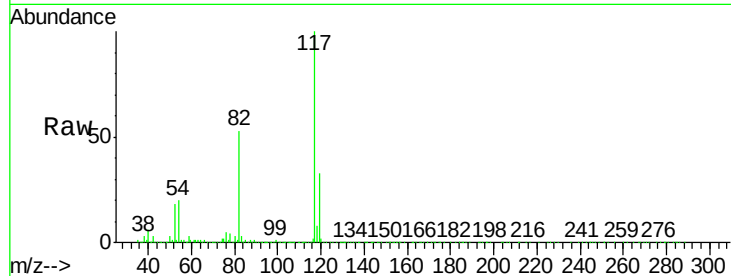




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

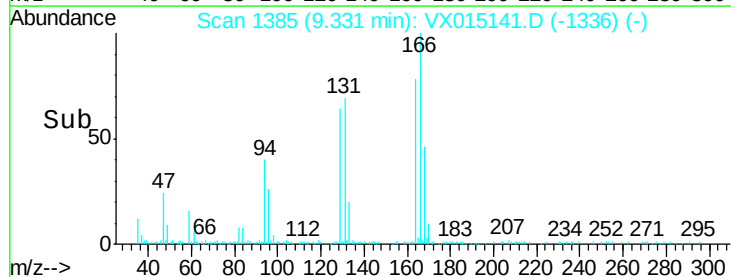
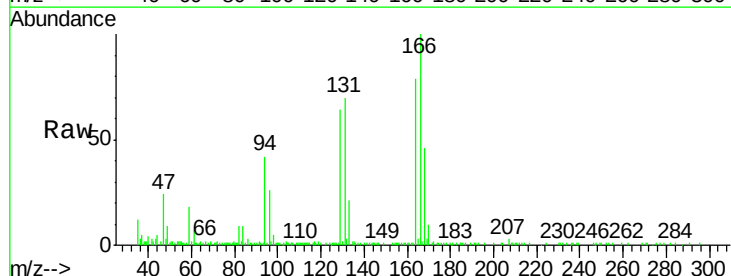
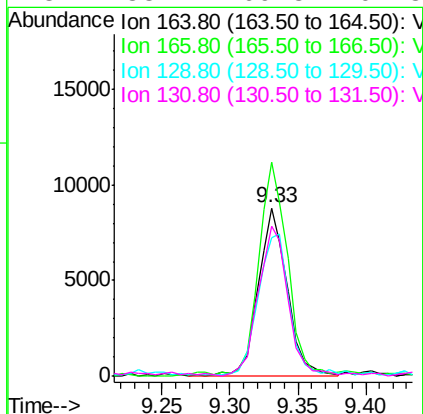
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20200304

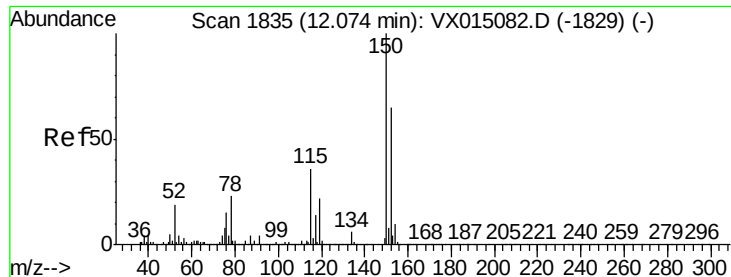
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.3	64.9
119	33.2	25.8	38.8



#64
Tetrachloroethene
Concen: 3.06 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX015141.D
Acq: 09 Mar 2020 14:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.1	101.1	151.7
129	81.4	69.4	104.0
131	88.4	69.8	104.8

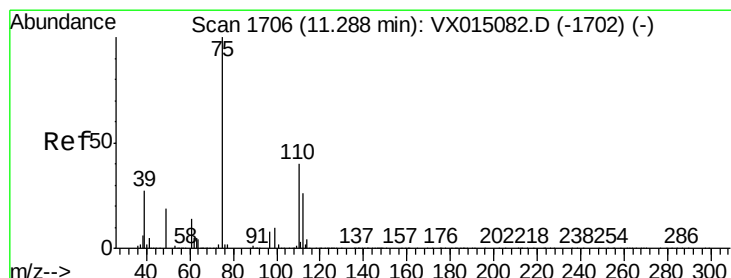
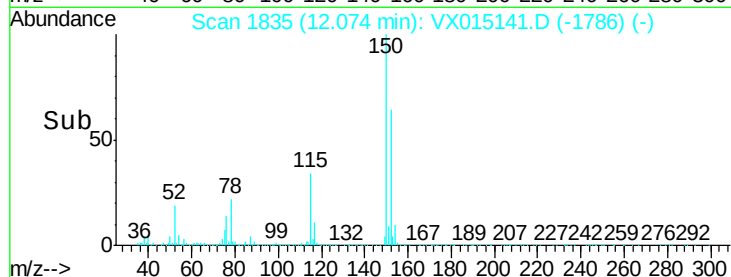
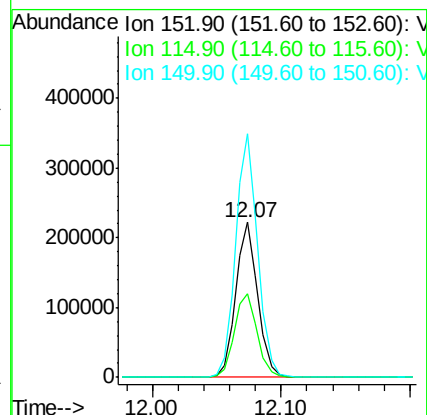
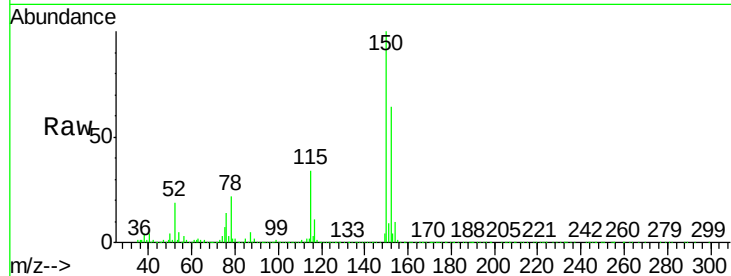




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX015141.D
 Acq: 09 Mar 2020 14:36

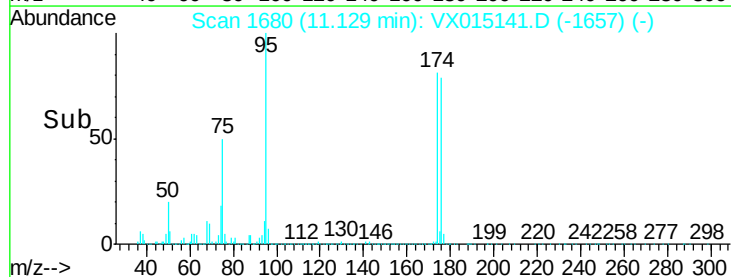
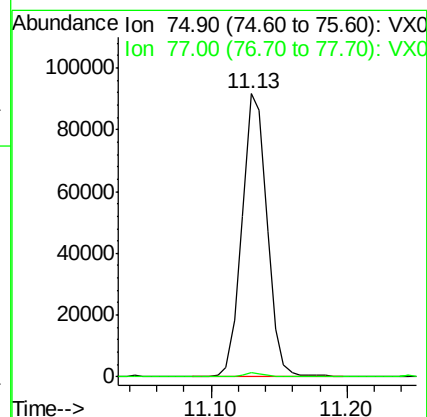
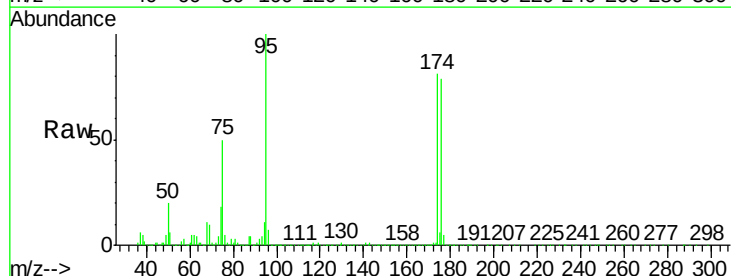
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20200304

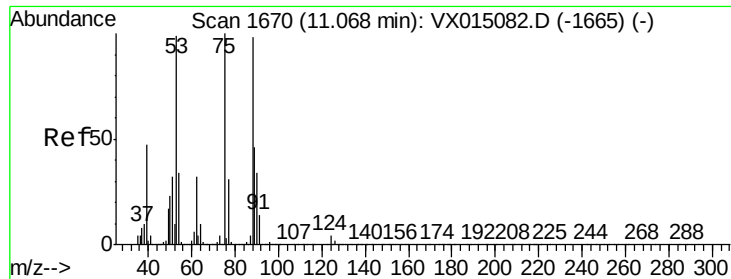
Tgt Ion: 152 Resp: 263942
 Ion Ratio Lower Upper
 152 100
 115 56.2 38.2 114.6
 150 157.4 0.0 343.8



#76
 1,2,3-Trichloropropane
 Concen: 22.26 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015141.D
 Acq: 09 Mar 2020 14:36

Tgt Ion: 75 Resp: 117217
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.6 67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.19 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

RE132D1-20200304

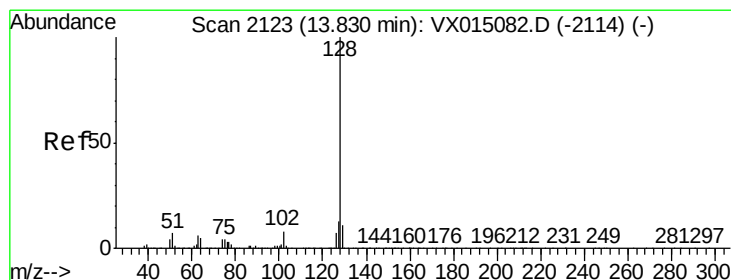
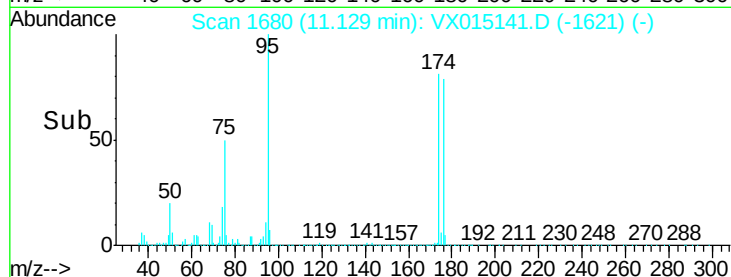
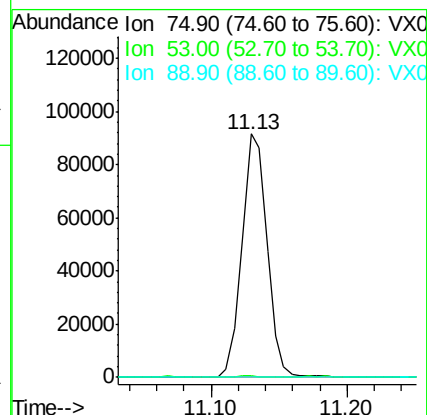
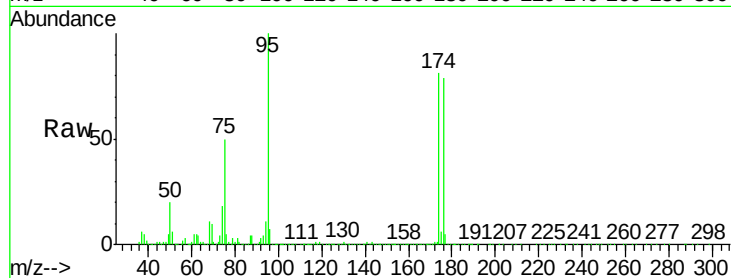
Tgt Ion: 75 Resp: 117217

Ion Ratio Lower Upper

75 100

53 0.6 77.9 116.9#

89 0.1 36.2 54.2#



#95

Naphthalene

Concen: 1.47 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015141.D

Acq: 09 Mar 2020 14:36

Tgt Ion: 128 Resp: 927

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 19.0 8.6 13.0#

