

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031020\
 Data File : VX015167.D
 Acq On : 10 Mar 2020 13:48
 Operator : JC/SP
 Sample : L1842-26
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20200306

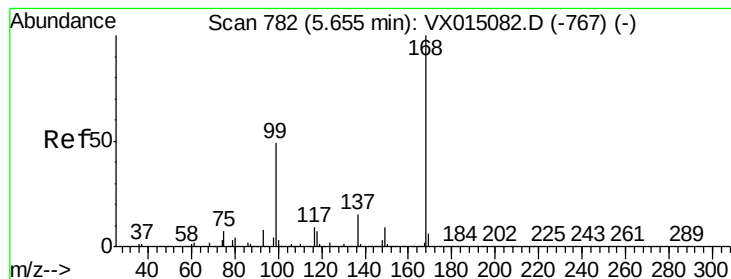
Quant Time: Mar 11 07:29:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	331351	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	545459	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	531757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	267724	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	205289	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
35) Dibromofluoromethane	5.49	113	171658	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
50) Toluene-d8	8.71	98	669637	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.14	95	238337	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1250	0.304	ug/l	95
5) Bromomethane	1.66	94	536	0.209	ug/l #	49
9) 1,1,2-Trichlorotrifluoroet	2.39	101	5802	1.860	ug/l	98
11) Tert butyl alcohol	3.01	59	816	1.196	ug/l #	85
12) 1,1-Dichloroethene	2.37	96	5820	1.807	ug/l	95
13) Acrolein	2.27	56	163	0.254	ug/l #	1
16) Acetone	2.44	43	1864	1.171	ug/l	89
24) 1,1-Dichloroethane	3.69	63	2462	0.397	ug/l #	87
25) 2-Butanone	4.67	43	543	0.233	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	5832	1.512	ug/l	79
29) Tetrahydrofuran	5.14	42	479	0.319	ug/l #	32
32) 1,1,1-Trichloroethane	5.48	97	1045	0.208	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	22458	4.454	ug/l #	53
38) Carbon Tetrachloride	5.78	117	6868	1.443	ug/l	92
42) 1,2-Dichloroethane	6.21	62	1543	0.300	ug/l	99
44) Trichloroethene	7.21	130	615739	147.786	ug/l	95
49) 1,4-Dioxane	7.74	88	304	3.357	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	2640	0.701	ug/l #	91
58) 2-Chloroethyl Vinyl ether	8.47	63	662	0.226	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	121240	22.703	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	121240	64.431	ug/l #	11
95) Naphthalene	13.83	128	937	1.471	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015167.D

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MSVOA_X

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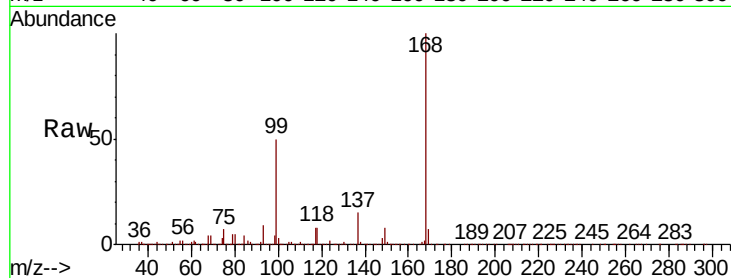
RE139D2-20200306

Tot Ion:168 Resp: 331351

Ion Ratio Lower Upper

168 100

99 49.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

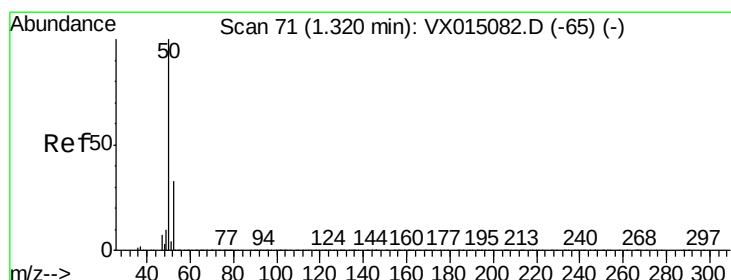
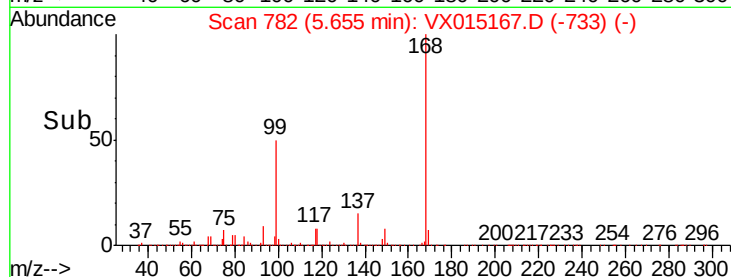
5.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.304 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015167.D

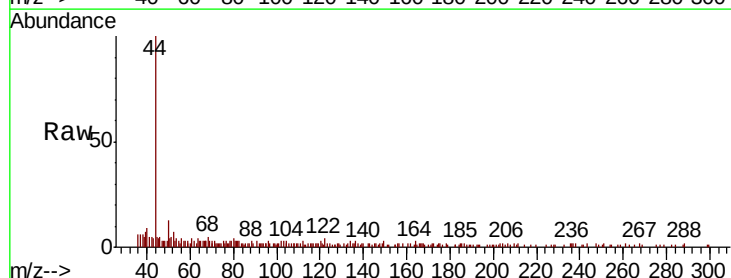
Acq: 10 Mar 2020 13:48

Tgt Ion: 50 Resp: 1250

Ion Ratio Lower Upper

50 100

52 29.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

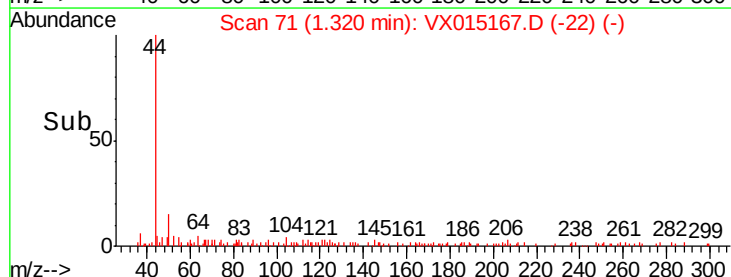
600

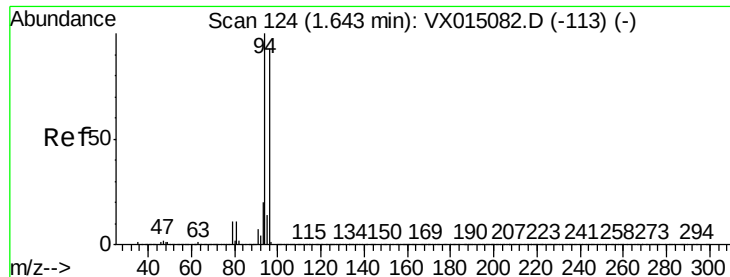
400

200

0

Time-->





#5

Bromomethane

Concen: 0.209 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

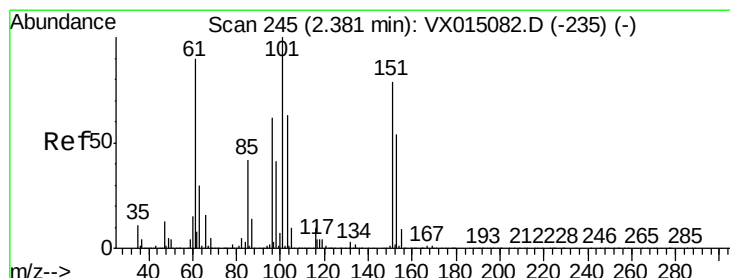
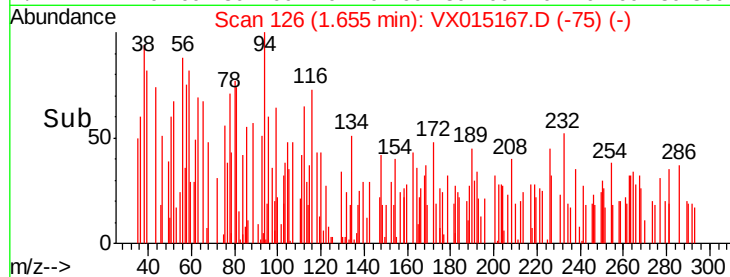
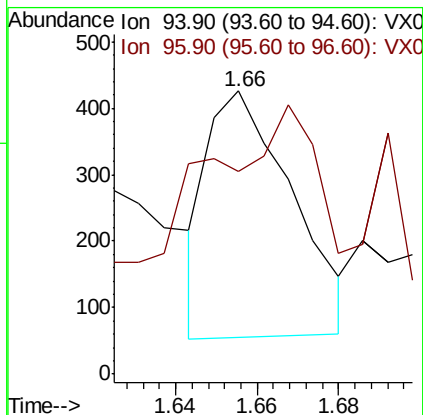
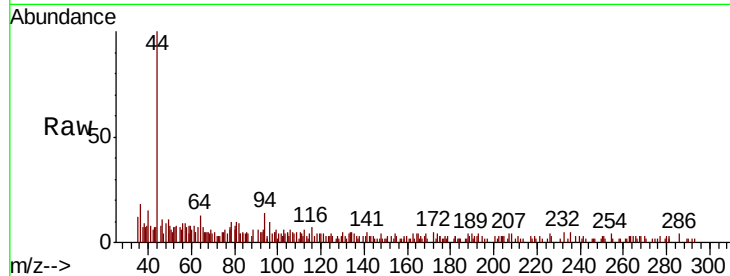
RE139D2-20200306

Tot Ion: 94 Resp: 536

Ion Ratio Lower Upper

94 100

96 44.1 74.6 111.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.860 ug/l

RT: 2.39 min Scan# 246

Delta R.T. 0.01 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

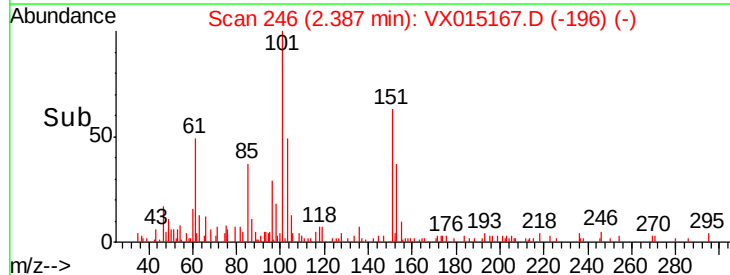
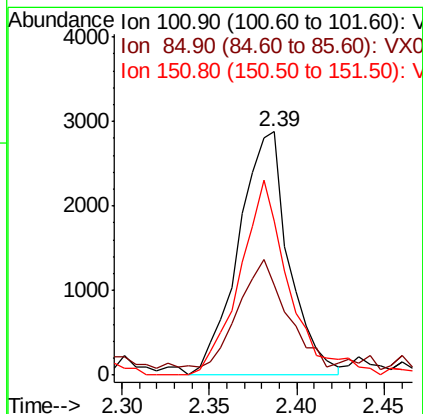
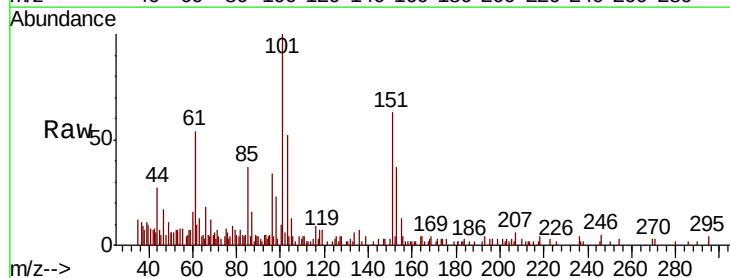
Tgt Ion: 101 Resp: 5802

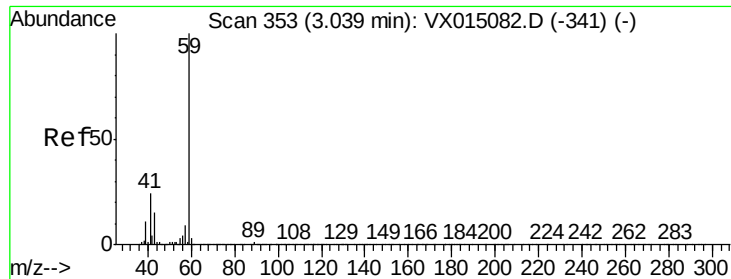
Ion Ratio Lower Upper

101 100

85 43.2 33.7 50.5

151 77.9 64.0 96.0

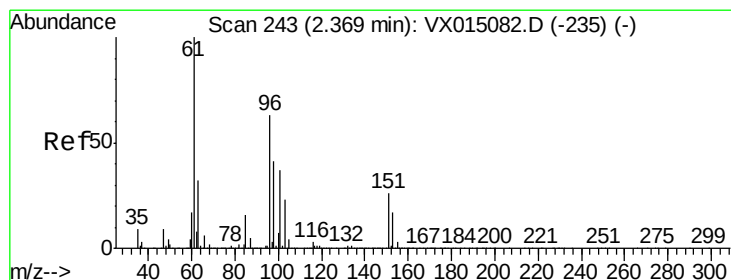
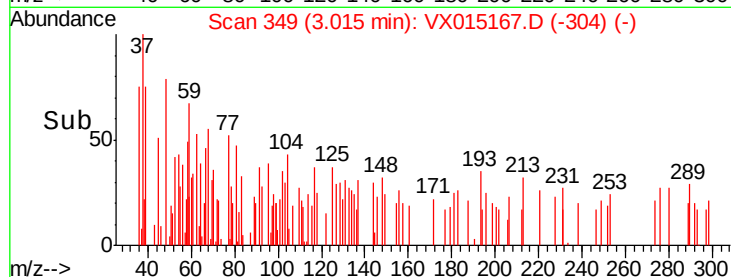
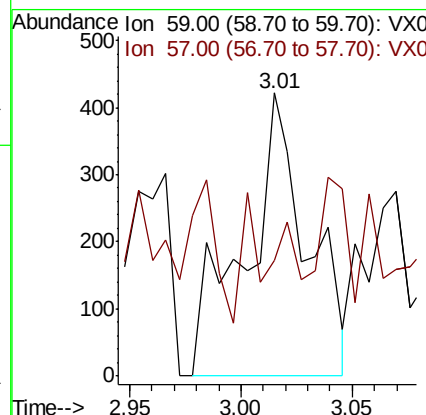
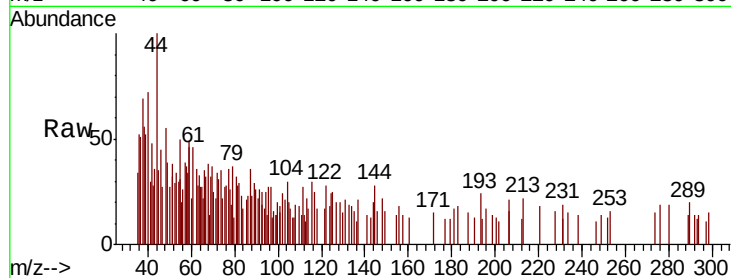




#11
Tert butyl alcohol
Concen: 1.196 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

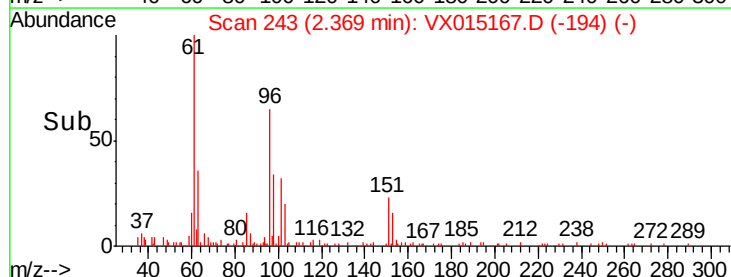
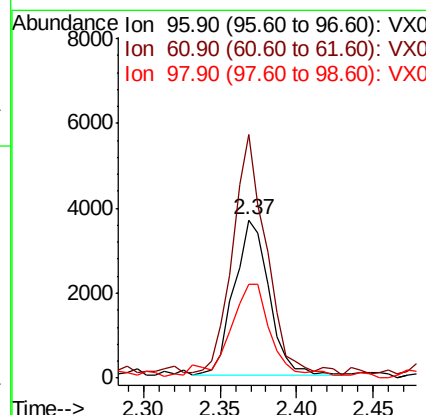
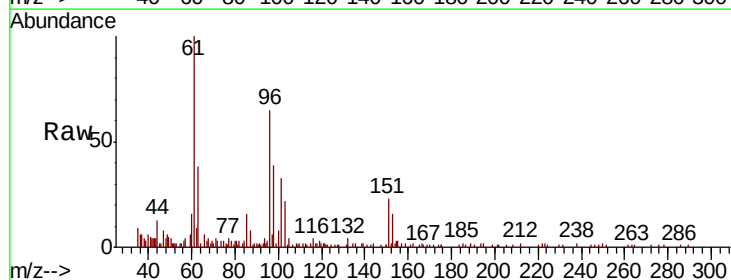
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

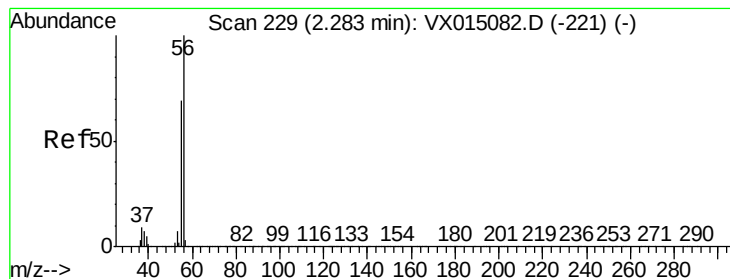
Tot Ion: 59 Resp: 816
Ion Ratio Lower Upper
59 100
57 15.8 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 1.807 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.00 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Tgt Ion: 96 Resp: 5820
Ion Ratio Lower Upper
96 100
61 154.9 126.2 189.4
98 55.4 51.4 77.0





#13

Acrolein

Concen: 0.254 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

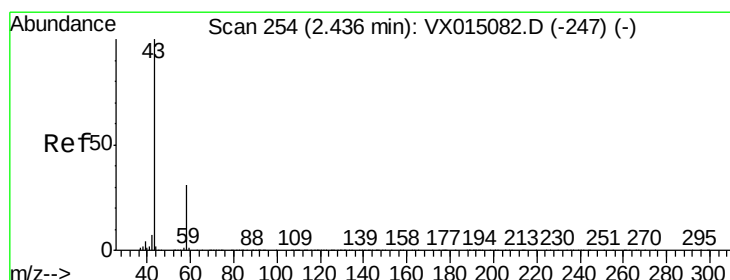
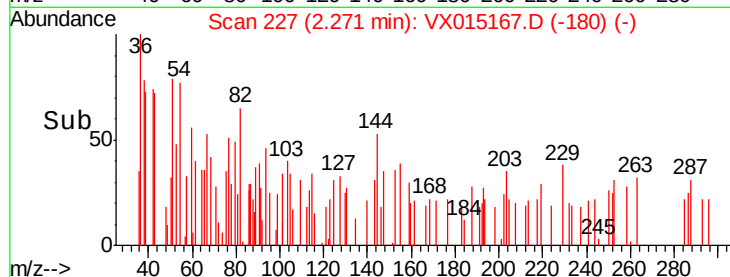
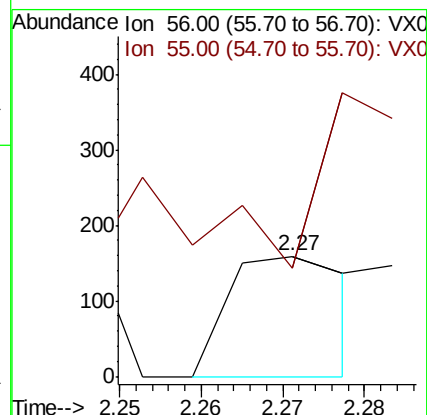
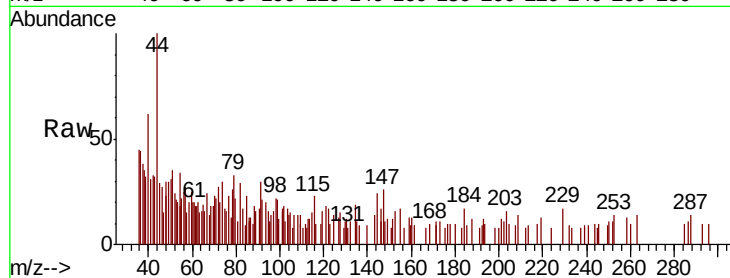
RE139D2-20200306

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 149.7 55.4 83.0#



#16

Acetone

Concen: 1.171 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX015167.D

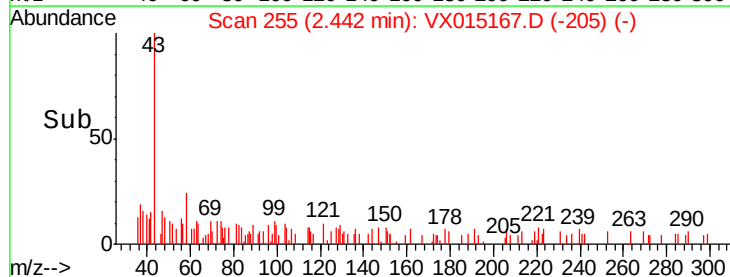
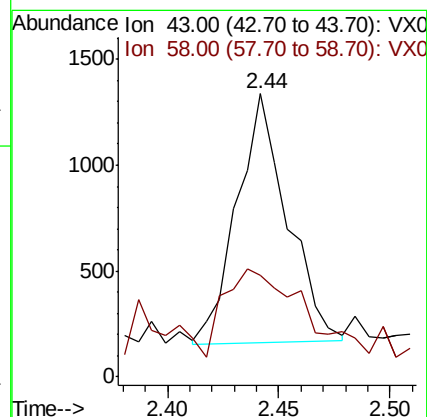
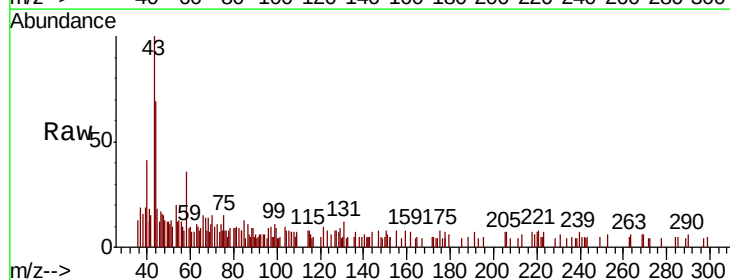
Acq: 10 Mar 2020 13:48

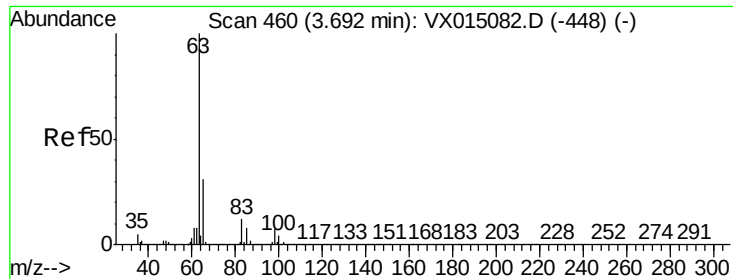
Tgt Ion: 43 Resp: 1864

Ion Ratio Lower Upper

43 100

58 24.9 24.8 37.2





#24

1,1-Dichloroethane

Concen: 0.397 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.00 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20200306

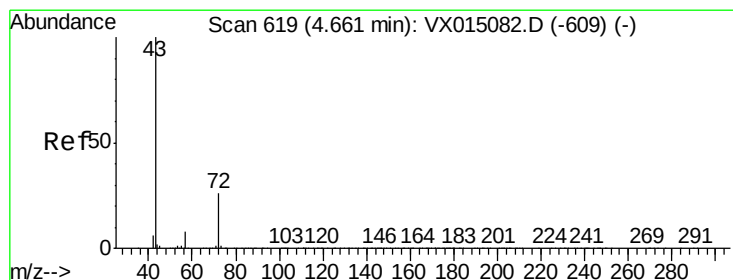
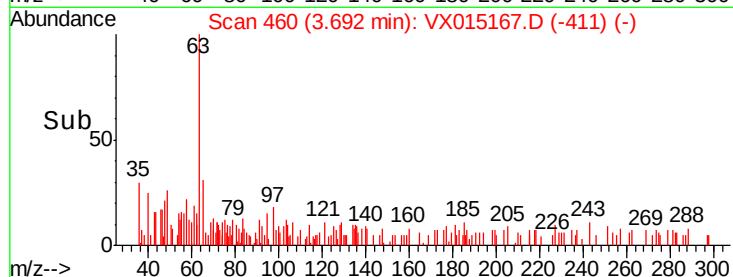
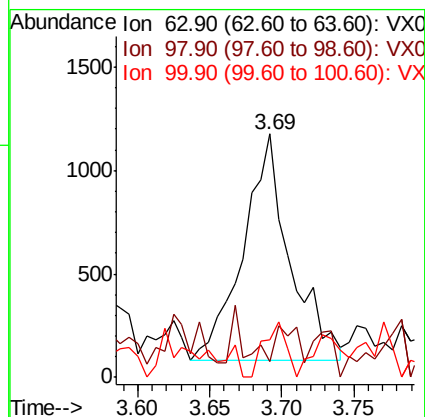
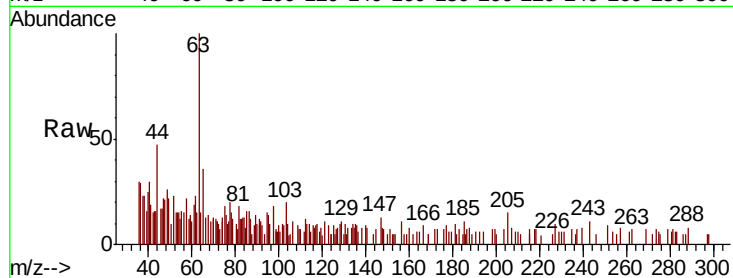
Tot Ion: 63 Resp: 2462

Ion Ratio Lower Upper

63 100

98 14.0 3.7 11.1#

100 5.5 2.1 6.5



#25

2-Butanone

Concen: 0.233 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX015167.D

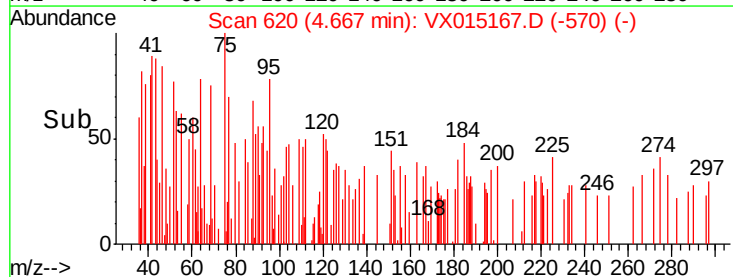
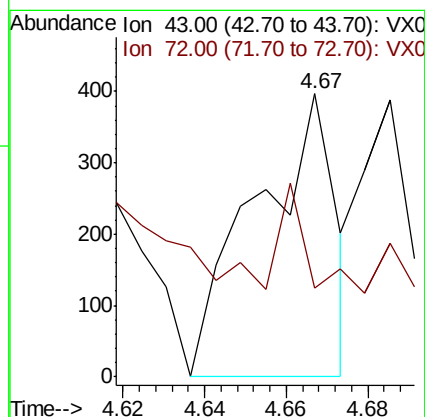
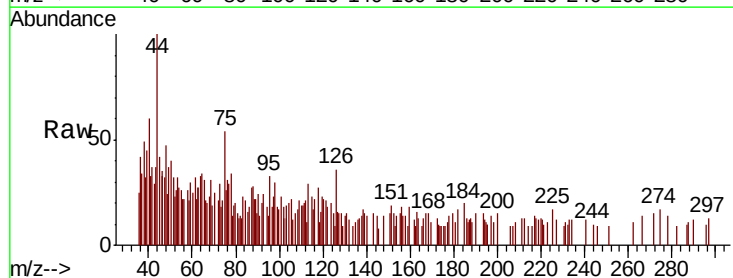
Acq: 10 Mar 2020 13:48

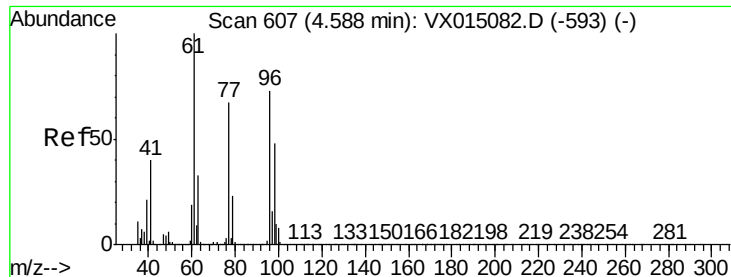
Tgt Ion: 43 Resp: 543

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#



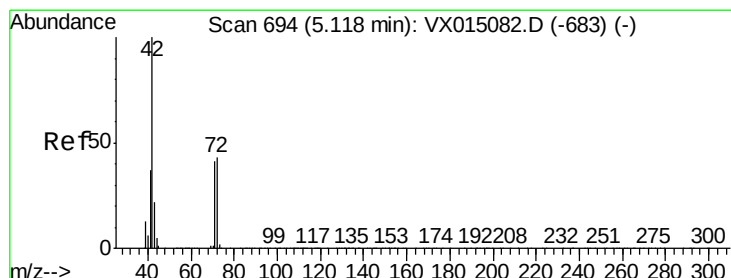
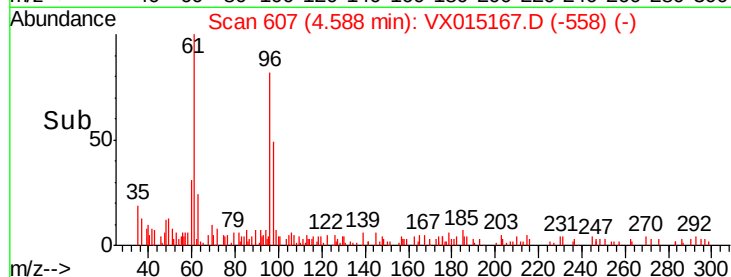
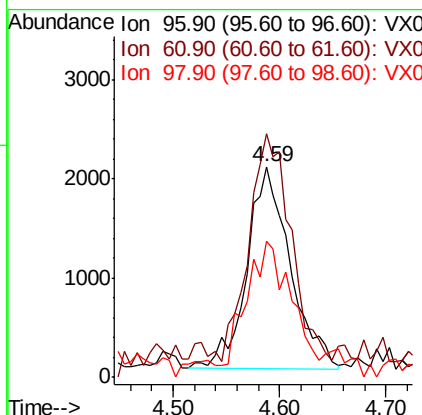
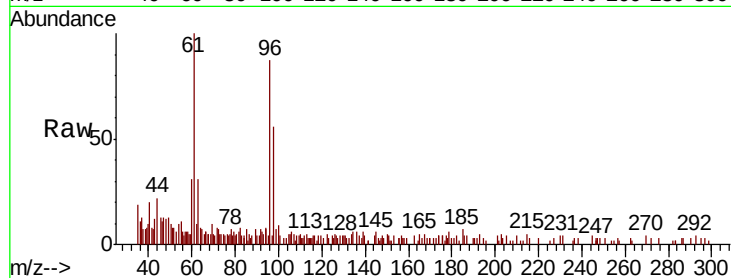


#27

cis-1,2-Dichloroethene
 Concen: 1.512 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20200306

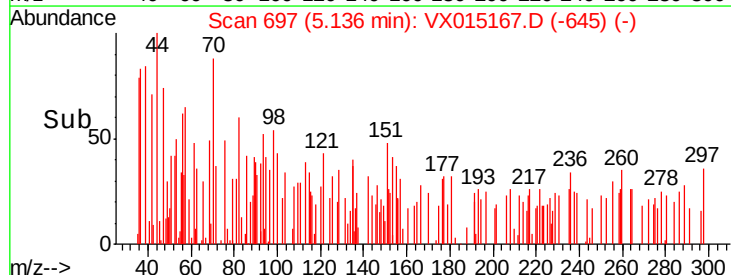
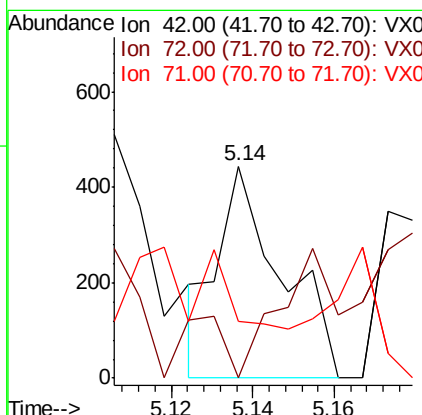
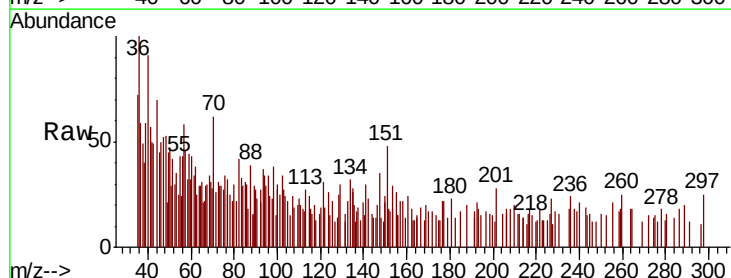
Tot Ion	Ratio	Lower	Upper
96	100		
61	108.6	0.0	286.8
98	60.1	0.0	128.4

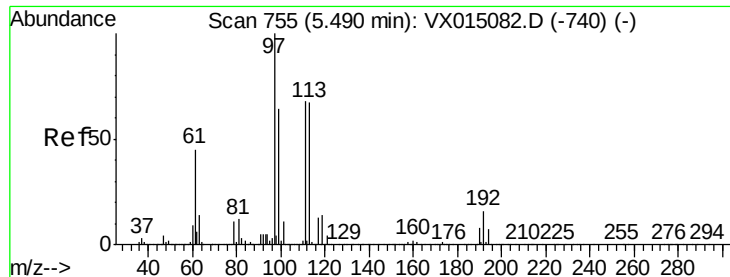


#29

Tetrahydrofuran
 Concen: 0.319 ug/l
 RT: 5.14 min Scan# 697
 Delta R.T. 0.02 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

Tgt Ion	Ratio	Lower	Upper
42	100		
72	19.2	36.4	54.6#
71	104.2	33.3	49.9#





#32

1,1,1-Trichloroethane

Concen: 0.208 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20200306

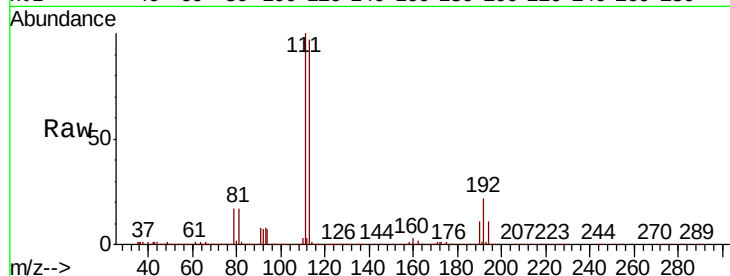
Tot Ion: 97 Resp: 1045

Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

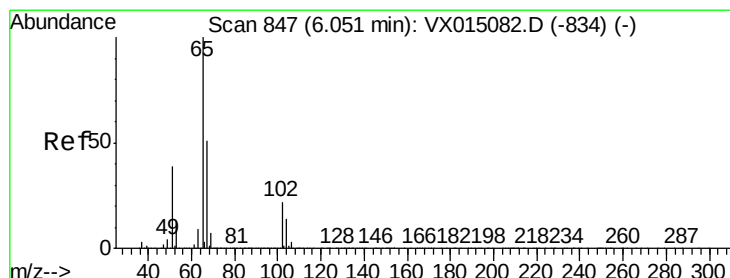
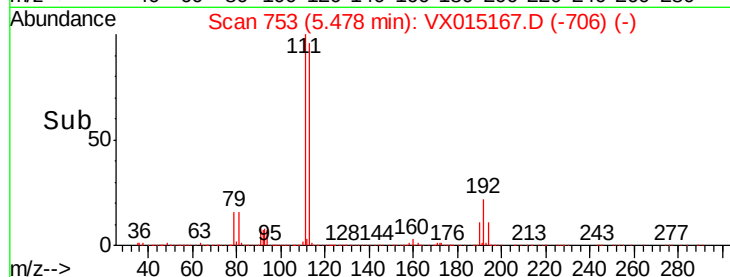
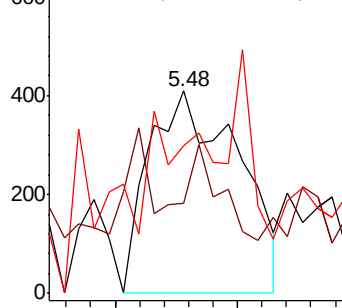
61 0.0 36.6 54.8#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.222 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX015167.D

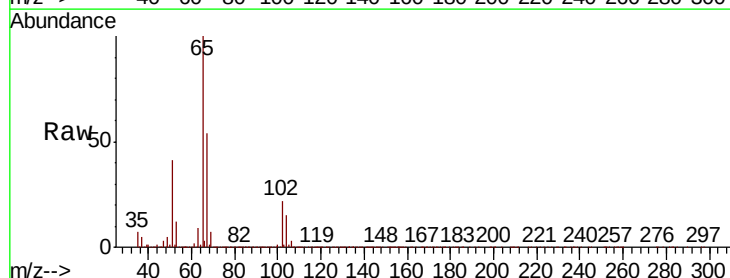
Acq: 10 Mar 2020 13:48

Tgt Ion: 65 Resp: 205289

Ion Ratio Lower Upper

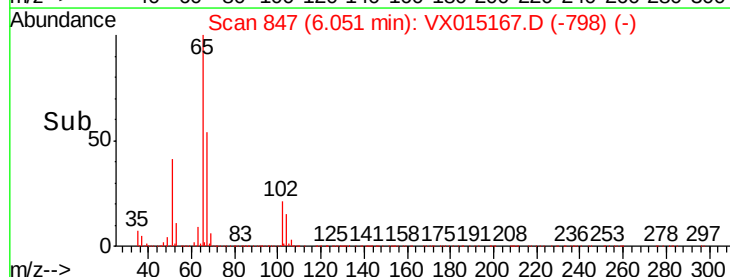
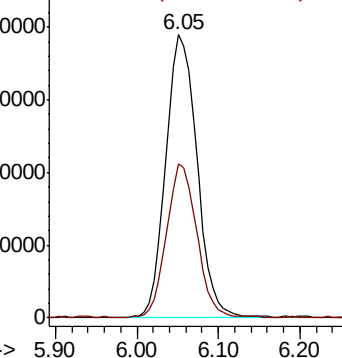
65 100

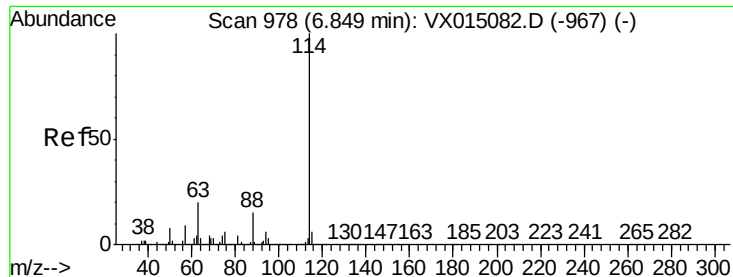
67 52.6 0.0 105.6



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

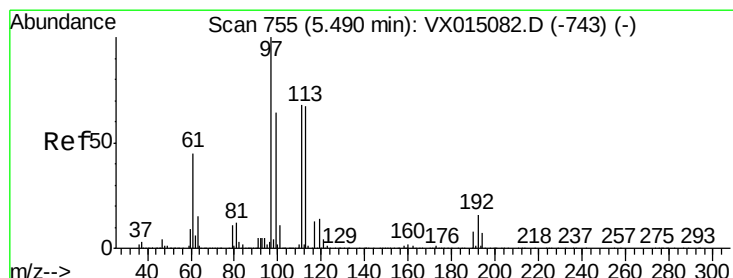
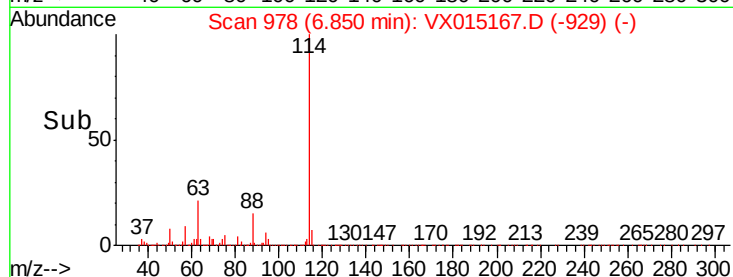
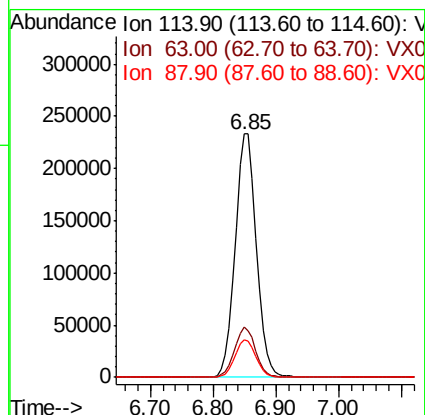
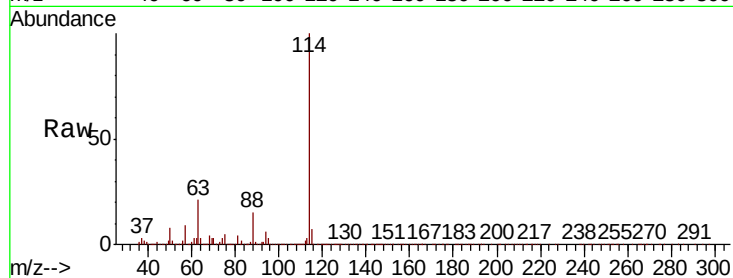
Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

Tot Ion:114 Resp: 545459

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.0
88	15.4	0.0	30.6



#35

Dibromofluoromethane

Concen: 49.884 ug/l

RT: 5.49 min Scan# 755

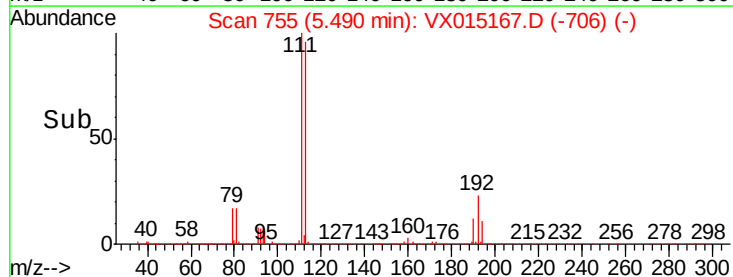
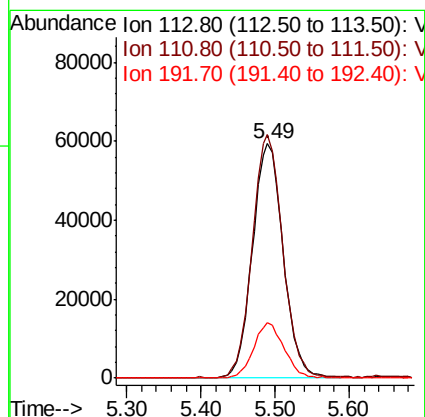
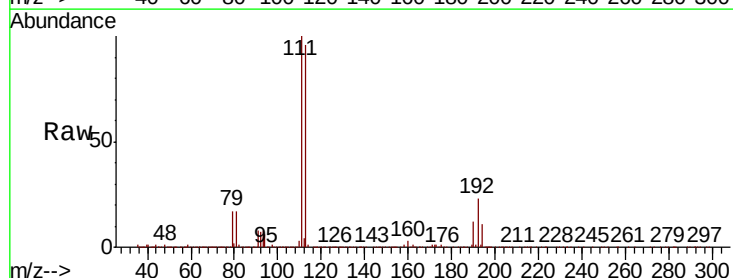
Delta R.T. 0.00 min

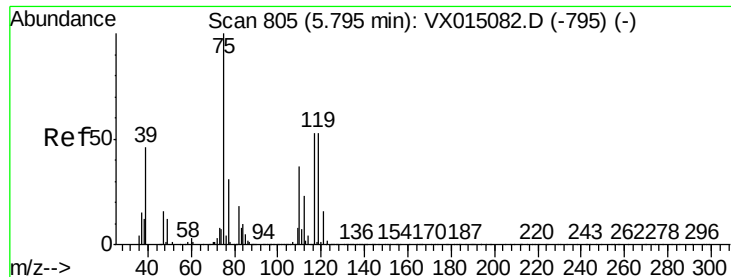
Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Tgt Ion:113 Resp: 171658

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	23.4	18.6	28.0

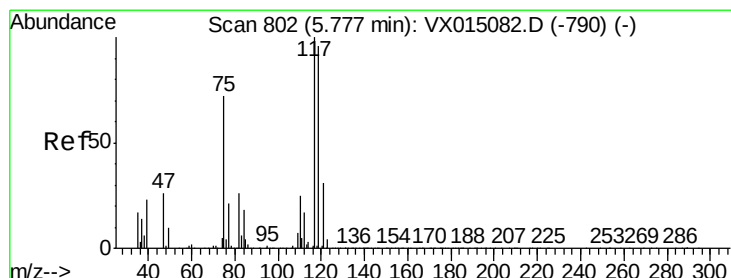
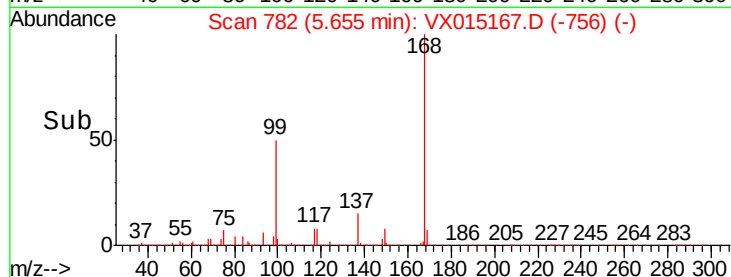
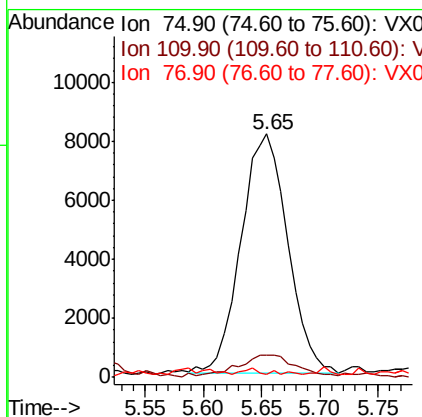
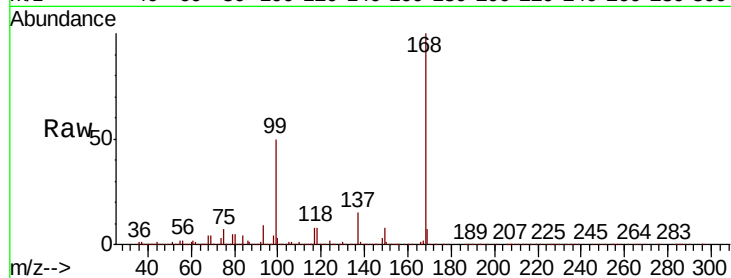




#36
 1,1-Dichloropropene
 Concen: 4.454 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

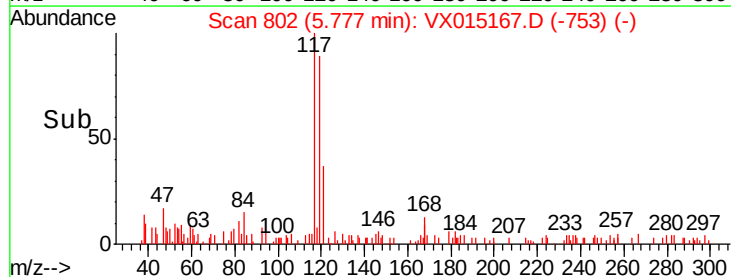
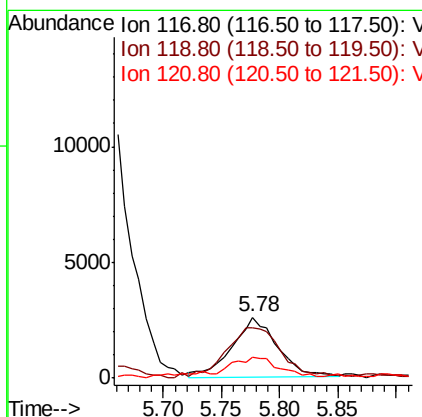
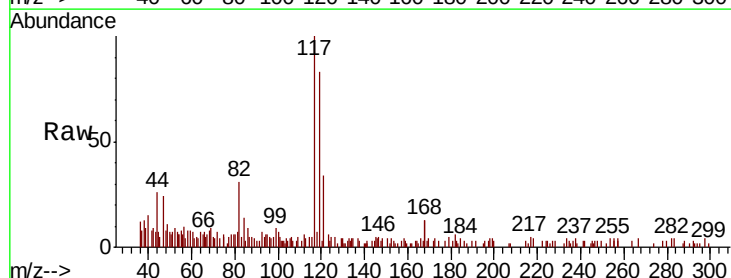
Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20200306

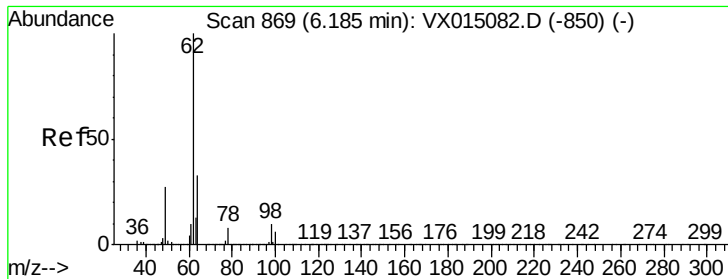
Tot Ion	Ratio	Lower	Upper
75	100		
110	12.2	17.9	53.8#
77	1.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 1.443 ug/l
 RT: 5.78 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.1	76.9	115.3
121	29.8	24.6	37.0

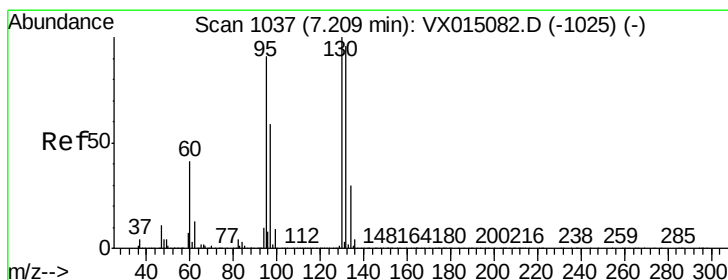
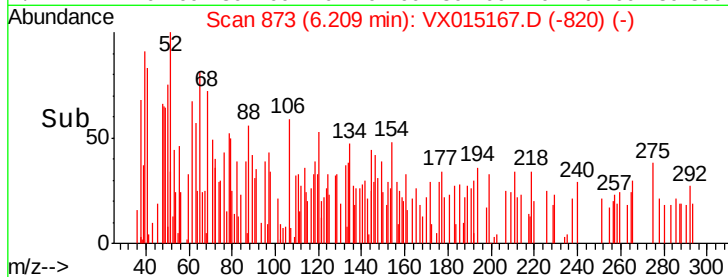
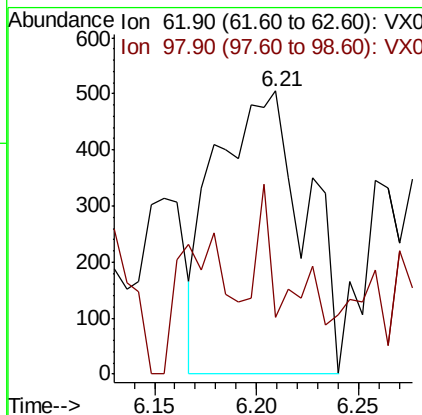
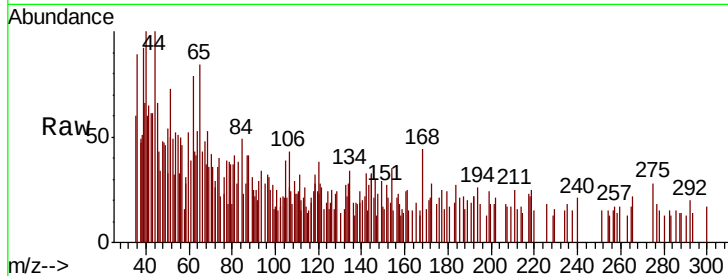




#42
1,2-Dichloroethane
Concen: 0.300 ug/l
RT: 6.21 min Scan# 873
Delta R.T. 0.02 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

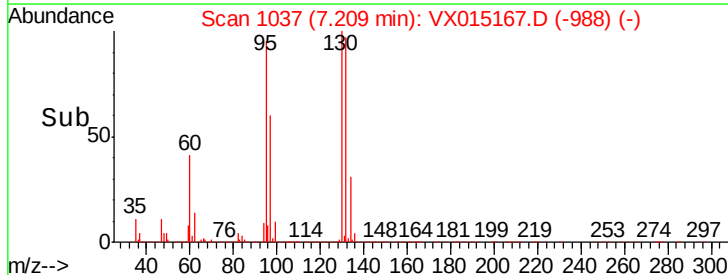
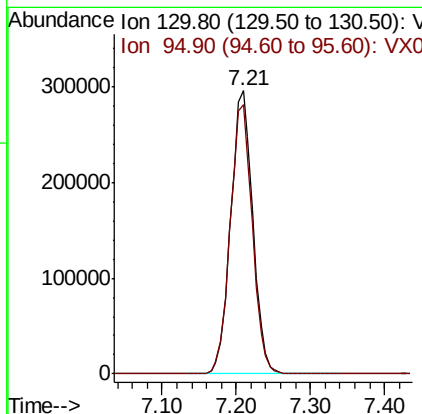
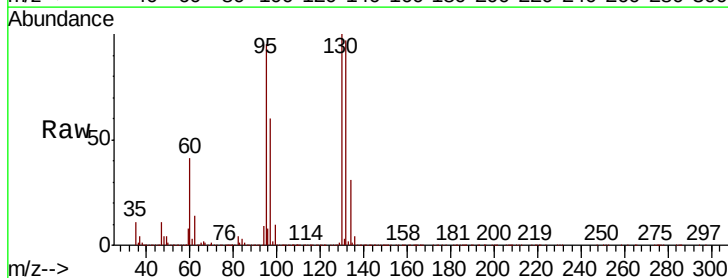
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

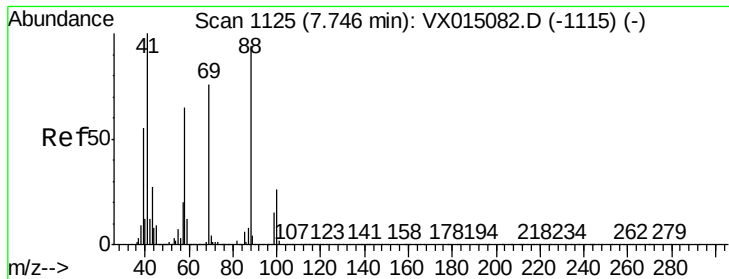
Tot Ion: 62 Resp: 1543
Ion Ratio Lower Upper
62 100
98 10.6 0.0 20.6



#44
Trichloroethene
Concen: 147.786 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Tgt Ion: 130 Resp: 615739
Ion Ratio Lower Upper
130 100
95 94.9 0.0 181.2

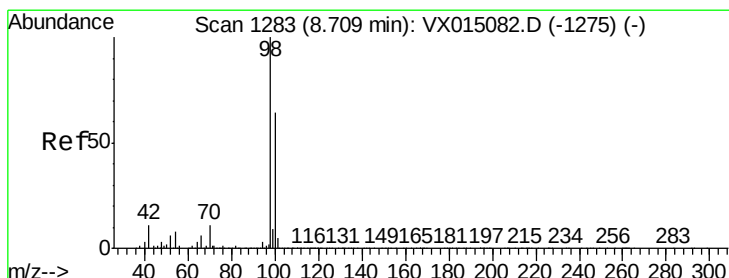
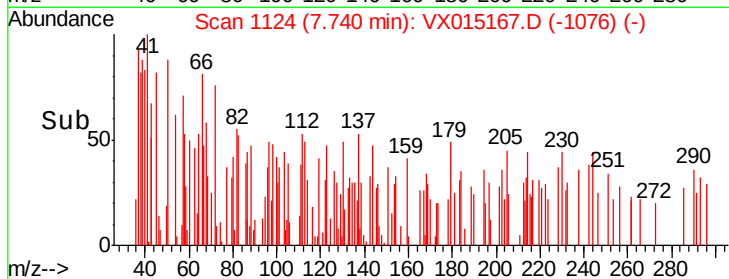
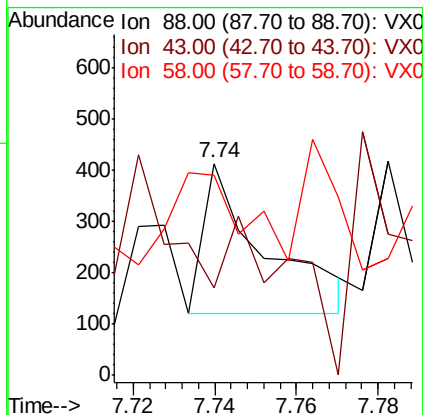
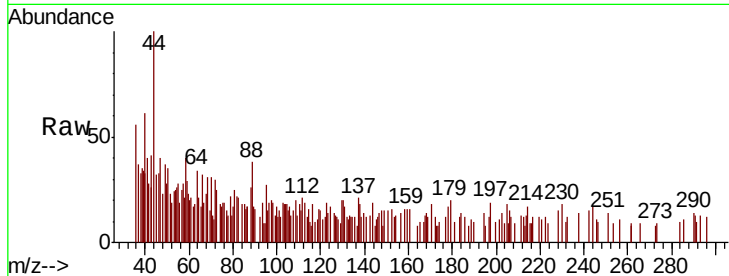




#49
1,4-Dioxane
Concen: 3.357 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

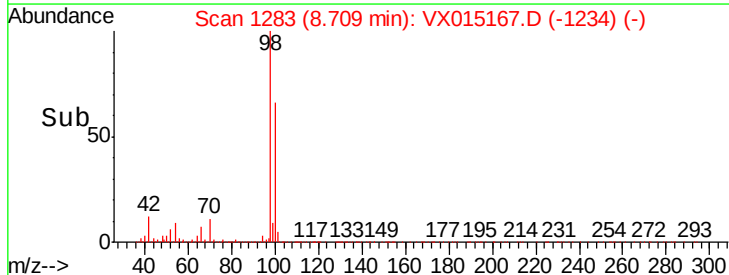
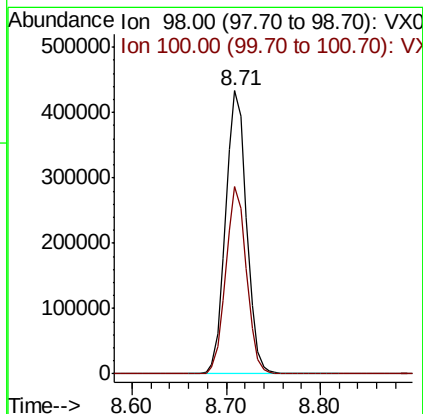
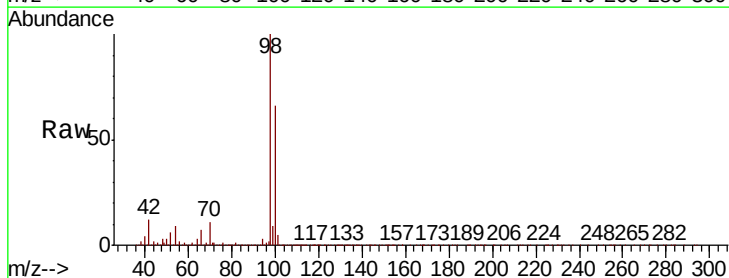
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

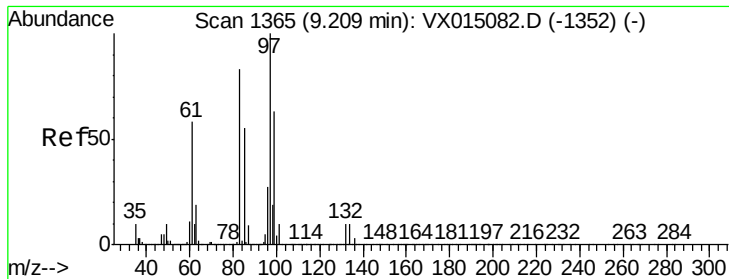
Tot Ion: 88 Resp: 304
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 179.3 55.6 83.4#



#50
Toluene-d8
Concen: 51.158 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Tgt Ion: 98 Resp: 669637
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6





#55

1,1,2-Trichloroethane

Concen: 0.701 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX015167.D

Acq: 10 Mar 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20200306

Tot Ion: 97 Resp: 2640

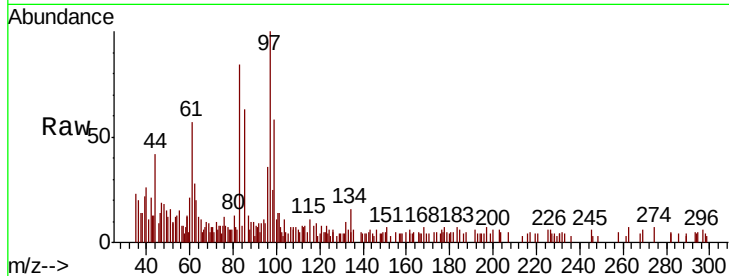
Ion Ratio Lower Upper

97 100

83 78.1 66.4 99.6

85 56.5 43.5 65.3

99 48.1 50.7 76.1#



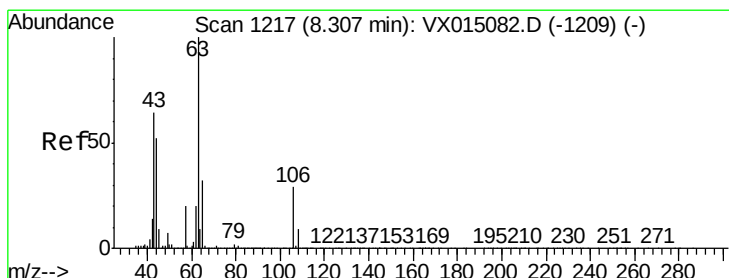
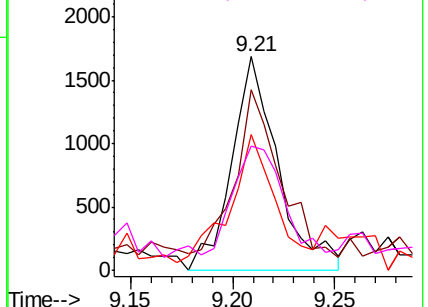
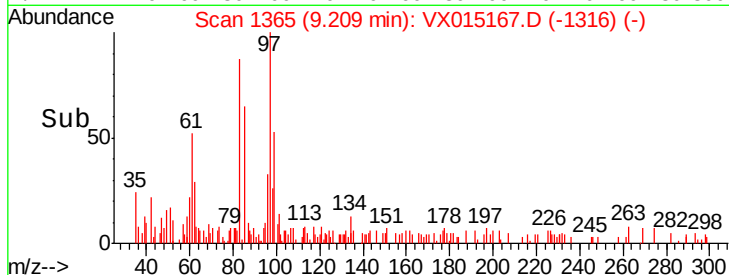
Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.226 ug/l

RT: 8.47 min Scan# 1244

Delta R.T. 0.16 min

Lab File: VX015167.D

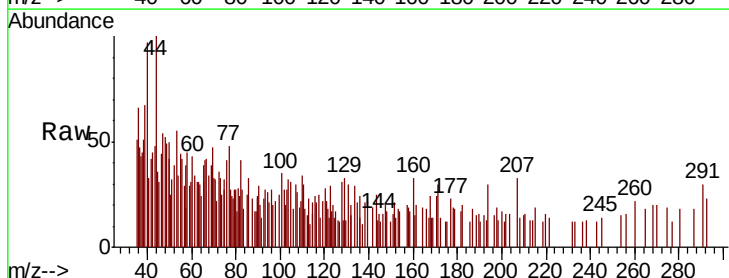
Acq: 10 Mar 2020 13:48

Tgt Ion: 63 Resp: 662

Ion Ratio Lower Upper

63 100

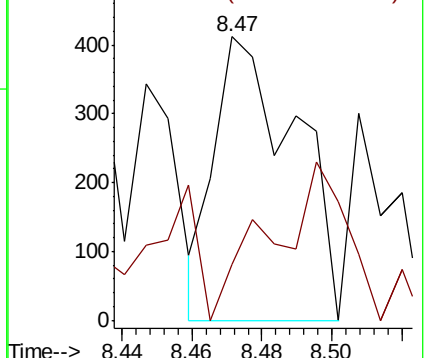
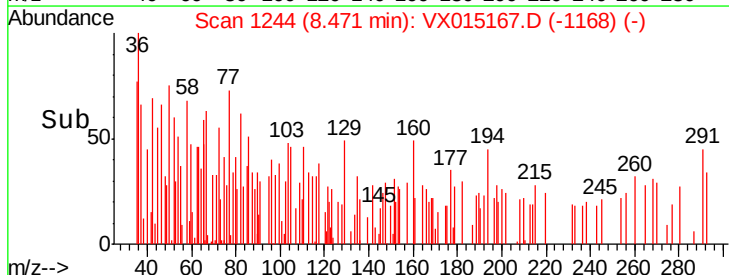
106 23.4 22.8 34.2

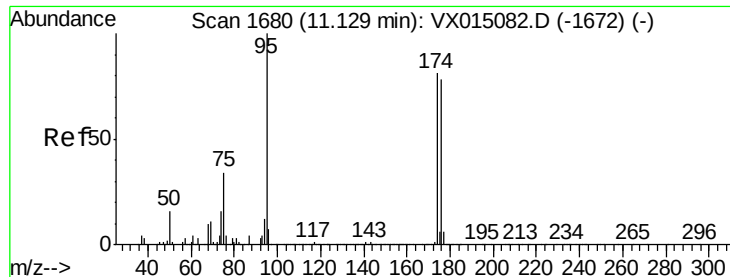


Abundance

Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

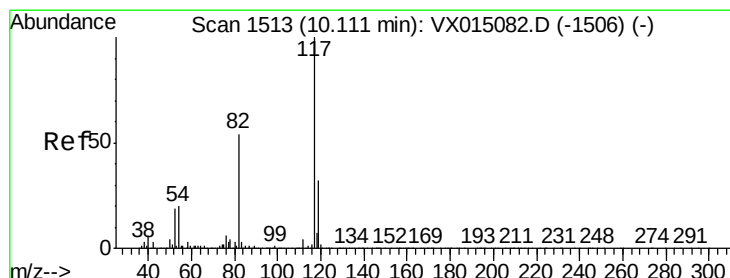
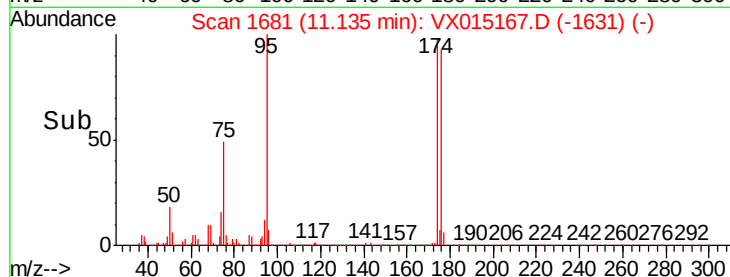
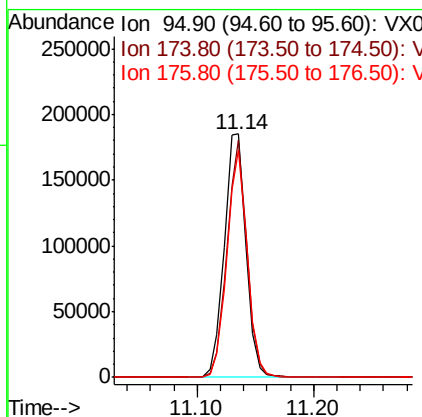
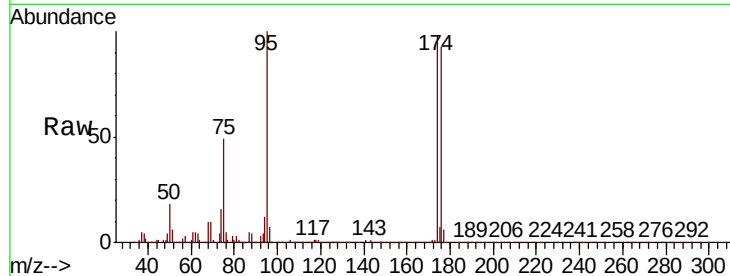




#62
4-Bromofluorobenzene
Concen: 51.048 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

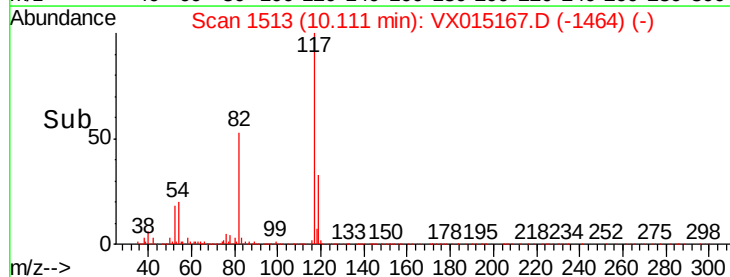
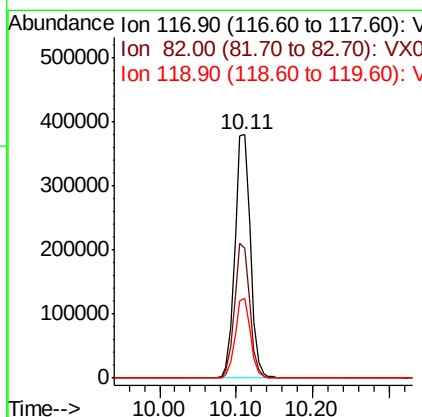
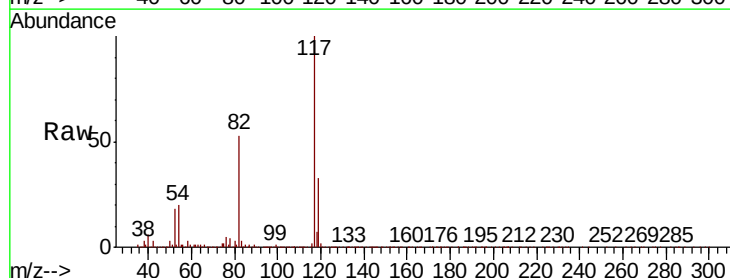
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

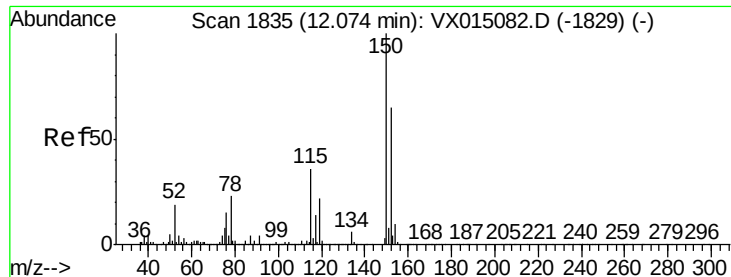
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	177.6
176	87.9	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.1	43.3	64.9
119	32.8	25.8	38.8

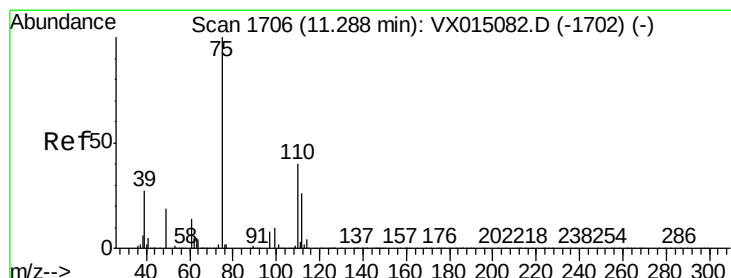
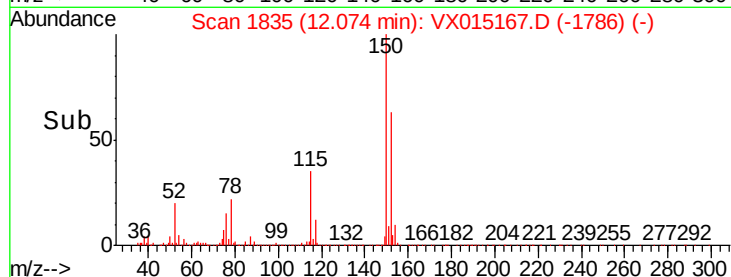
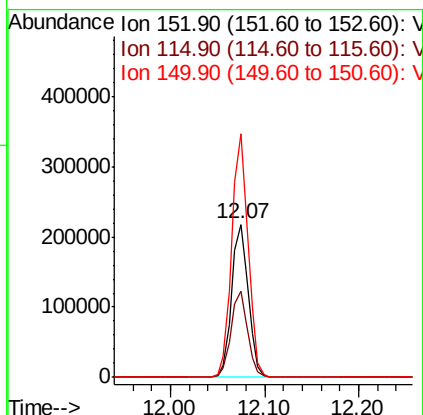
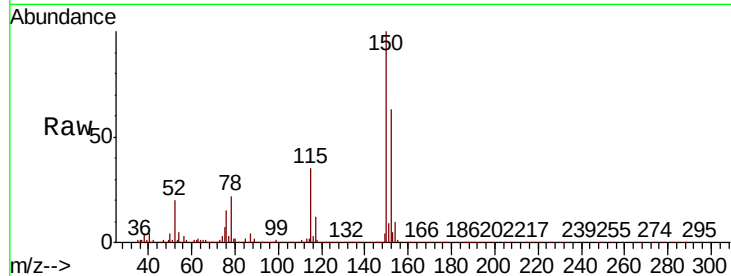




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

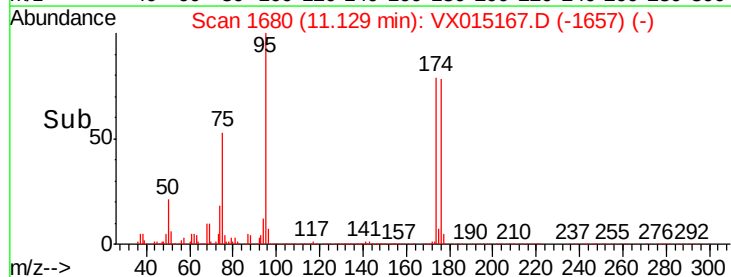
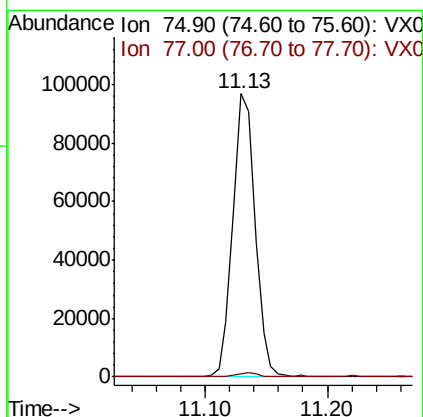
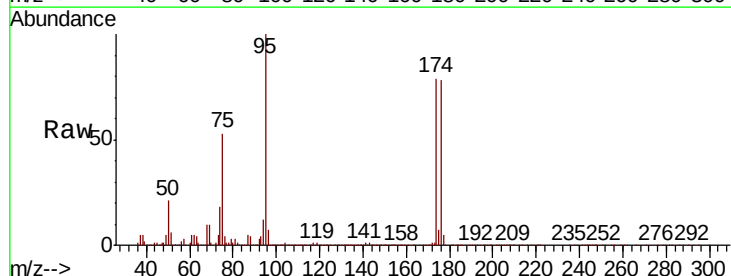
Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20200306

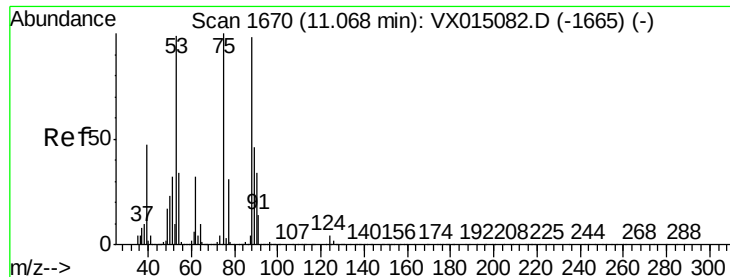
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.9	38.2	114.6
150	156.4	0.0	343.8



#76
 1,2,3-Trichloropropane
 Concen: 22.703 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015167.D
 Acq: 10 Mar 2020 13:48

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.6	67.8#

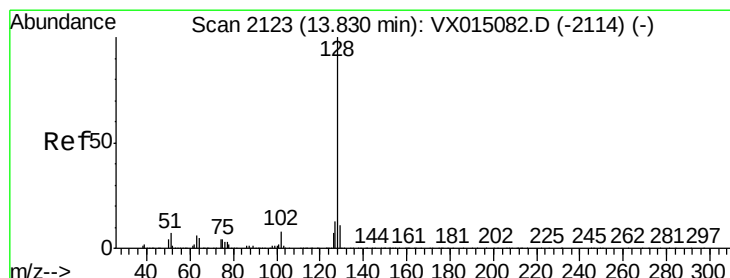
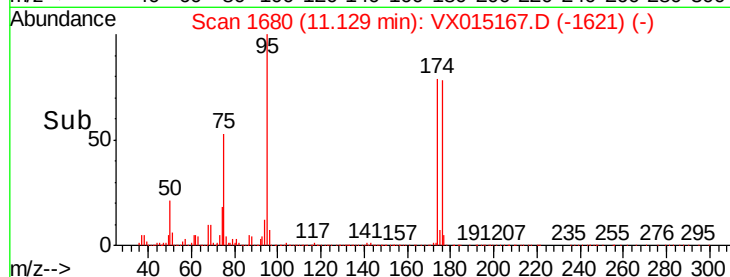
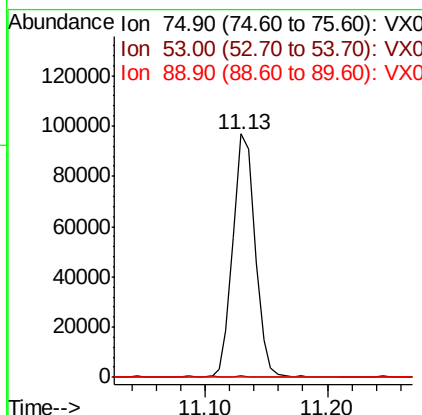
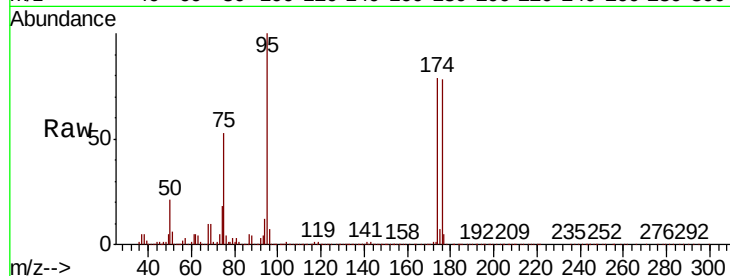




#81
trans-1,4-Dichloro-2-butene
Concen: 64.431 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20200306

Tot Ion: 75 Resp: 121240
Ion Ratio Lower Upper
75 100
53 0.4 77.9 116.9#
89 0.2 36.2 54.2#



#95
Naphthalene
Concen: 1.471 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015167.D
Acq: 10 Mar 2020 13:48

Tgt Ion:128 Resp: 937
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 10.4 8.6 13.0

