

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015258.D
 Acq On : 13 Mar 2020 14:35
 Operator : JC/SP
 Sample : L1903-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20200309

Quant Time: Mar 16 08:20:37 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

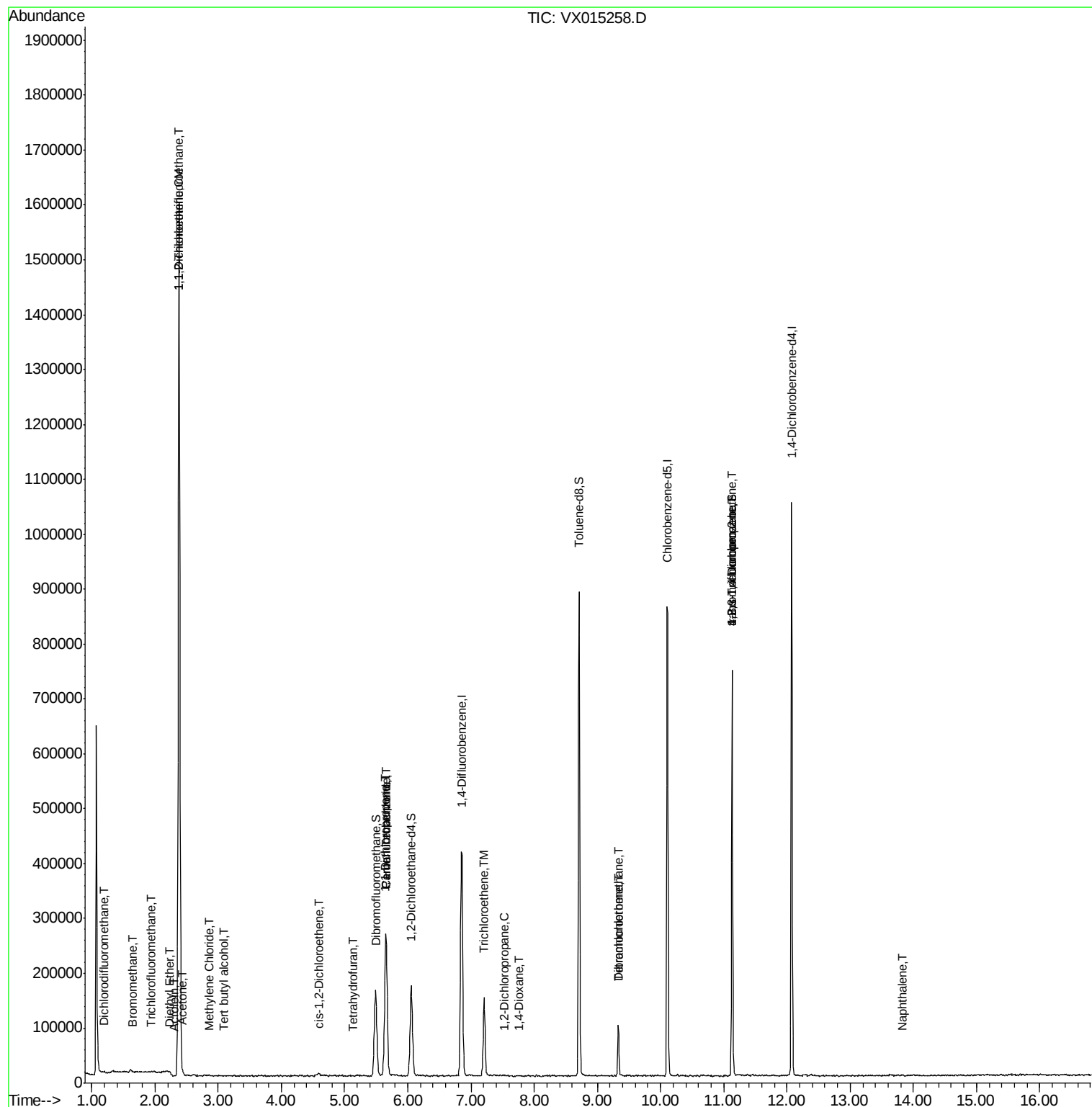
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	271460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	426869	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	417533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	216770	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	151892	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
35) Dibromofluoromethane	5.49	113	132143	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	8.71	98	525566	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	
62) 4-Bromofluorobenzene	11.13	95	196055	53.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.32%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	871	0.366	ug/l	85
5) Bromomethane	1.65	94	535	0.255	ug/l #	56
7) Trichlorofluoromethane	1.94	101	1020	0.251	ug/l #	63
8) Diethyl Ether	2.22	74	733	0.398	ug/l	55
9) 1,1,2-Trichlorotrifluoroet	2.38	101	632157	247.317	ug/l	98
11) Tert butyl alcohol	3.08	59	143	0.256	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	4040	1.531	ug/l #	80
13) Acrolein	2.30	56	160	0.305	ug/l #	15
16) Acetone	2.44	43	3663	2.809	ug/l	99
20) Methylene Chloride	2.86	84	717	0.235	ug/l #	40
27) cis-1,2-Dichloroethene	4.59	96	2263	0.716	ug/l	80
29) Tetrahydrofuran	5.14	42	682	0.554	ug/l #	51
36) 1,1-Dichloropropene	5.64	75	18837	4.773	ug/l #	52
38) Carbon Tetrachloride	5.65	117	23616	6.340	ug/l #	17
44) Trichloroethene	7.21	130	57776	17.720	ug/l	98
45) 1,2-Dichloropropane	7.52	63	921	0.304	ug/l #	64
49) 1,4-Dioxane	7.76	88	1081	15.255	ug/l #	56
60) Dibromochloromethane	9.33	129	15850	5.121	ug/l #	11
64) Tetrachloroethene	9.33	164	19304	5.592	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	94256	21.799	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	94256	61.865	ug/l #	11
95) Naphthalene	13.84	128	553	1.457	ug/l #	36

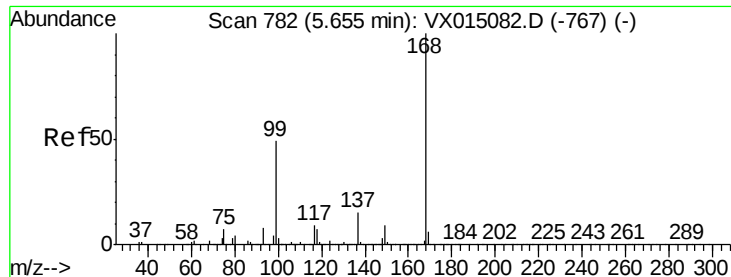
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031320\
Data File : VX015258.D
Acq On : 13 Mar 2020 14:35
Operator : JC/SP
Sample : L1903-15
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

Quant Time: Mar 16 08:20:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
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: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

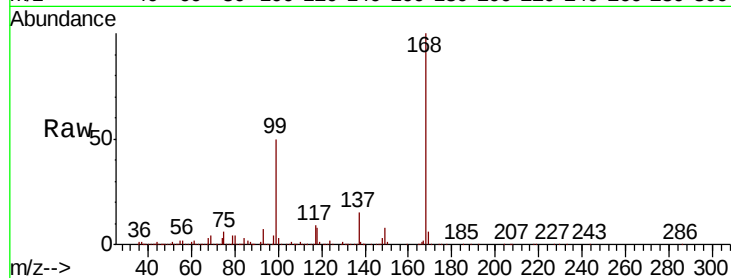
RE131D3-20200309

Tot Ion:168 Resp: 271460

Ion Ratio Lower Upper

168 100

99 50.3 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

80000

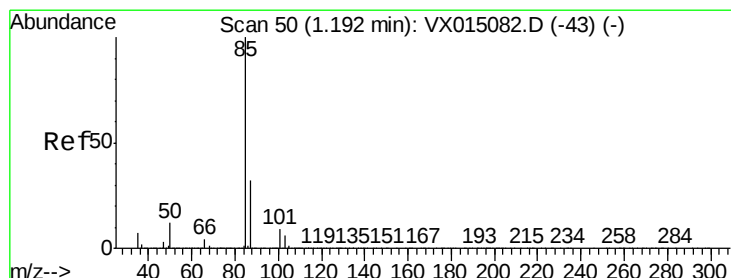
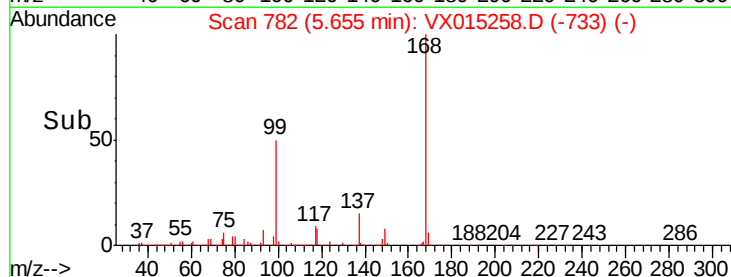
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.366 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015258.D

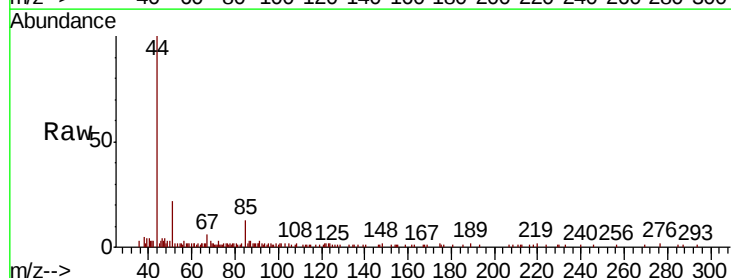
Acq: 13 Mar 2020 14:35

Tgt Ion: 85 Resp: 871

Ion Ratio Lower Upper

85 100

87 40.7 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

800

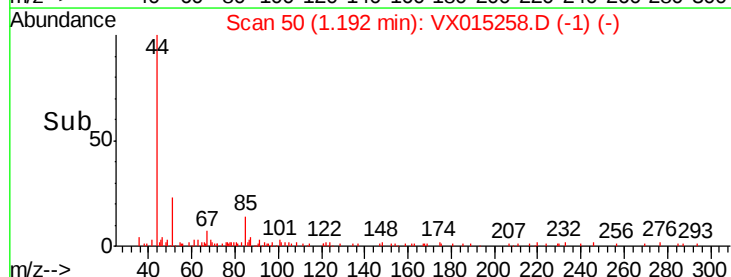
600

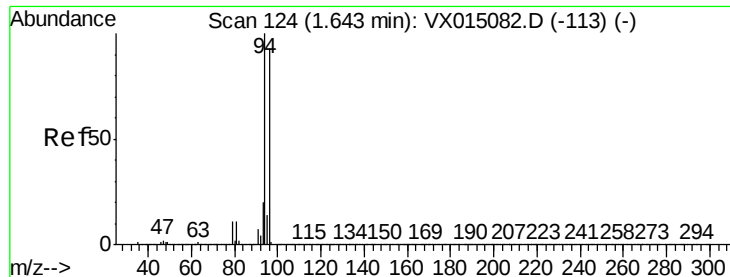
400

200

0

Time--> 1.15 1.20 1.25





#5

Bromomethane

Concen: 0.255 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

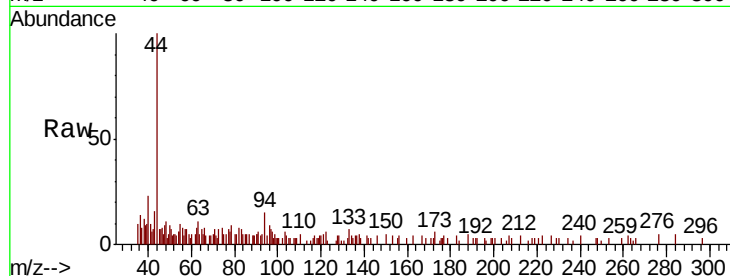
RE131D3-20200309

Tot Ion: 94 Resp: 535

Ion Ratio Lower Upper

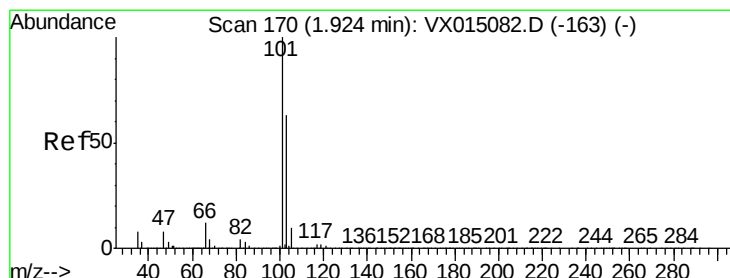
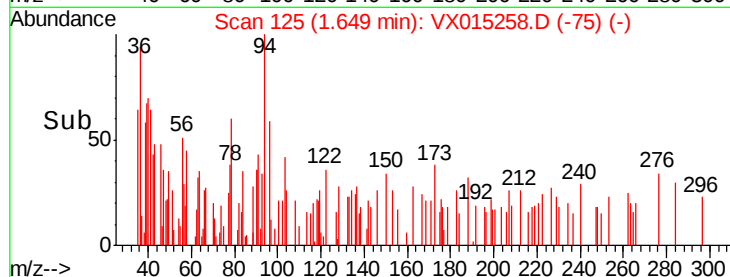
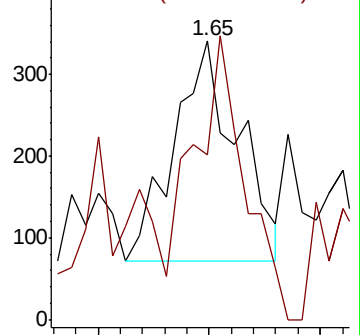
94 100

96 51.3 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#7

Trichlorofluoromethane

Concen: 0.251 ug/l

RT: 1.94 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX015258.D

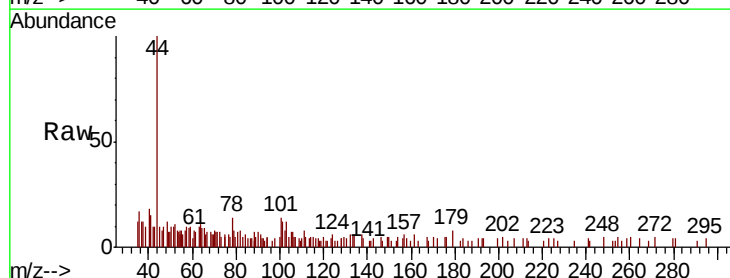
Acq: 13 Mar 2020 14:35

Tgt Ion: 101 Resp: 1020

Ion Ratio Lower Upper

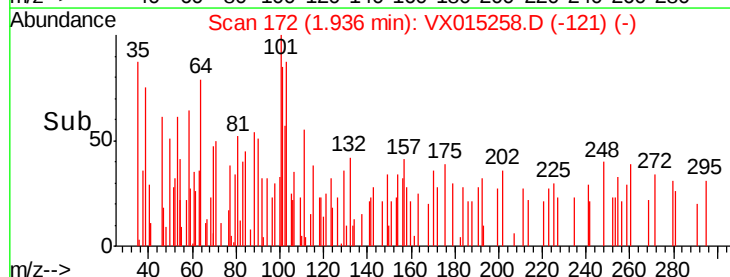
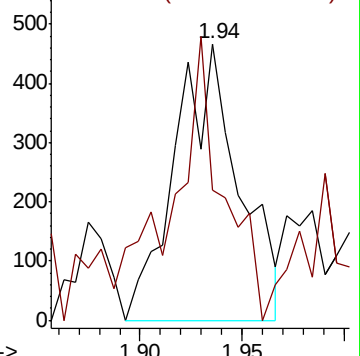
101 100

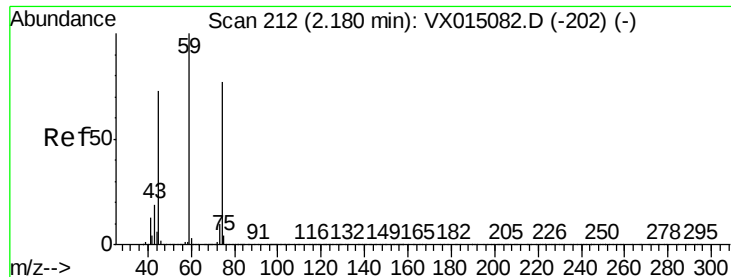
103 34.3 50.4 75.6#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#8

Diethyl Ether

Concen: 0.398 ug/l

RT: 2.22 min Scan# 218

Delta R.T. 0.04 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

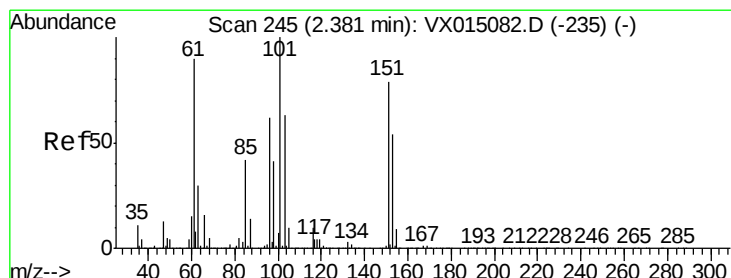
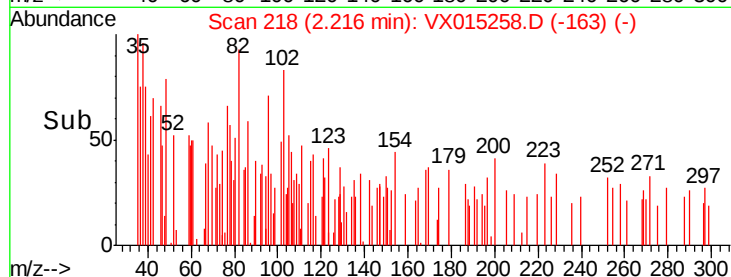
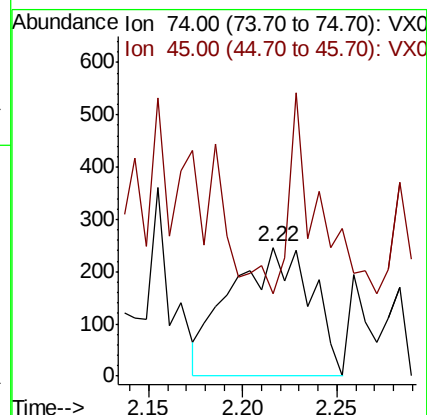
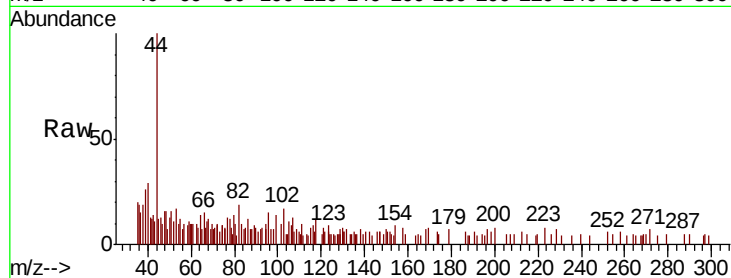
RE131D3-20200309

Tot Ion: 74 Resp: 733

Ion Ratio Lower Upper

74 100

45 53.3 49.2 147.6



#9

1,1,2-Trichlorotrifluoroethane

Concen: 247.317 ug/l

RT: 2.38 min Scan# 245

Delta R.T. -0.00 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

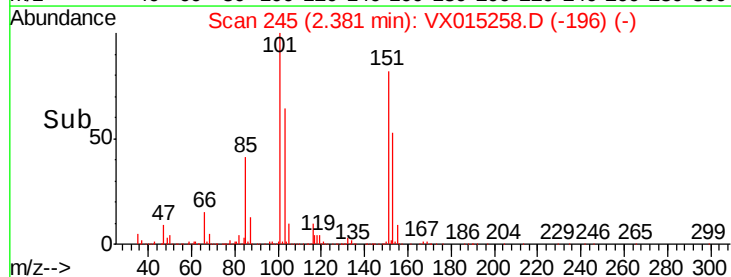
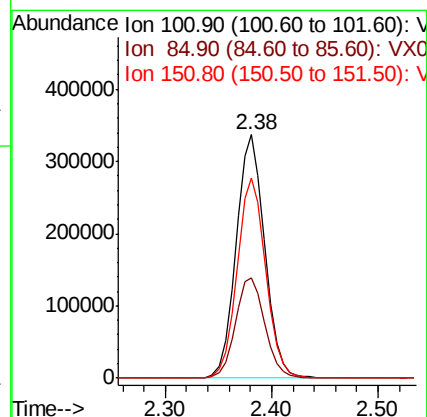
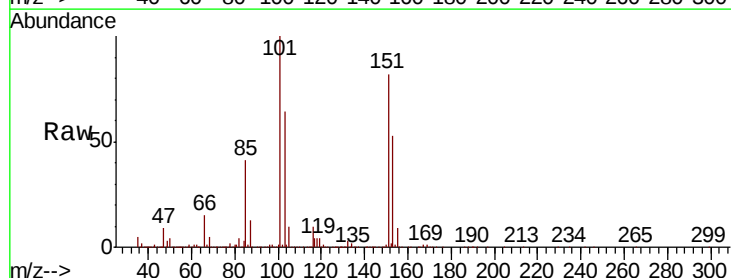
Tgt Ion: 101 Resp: 632157

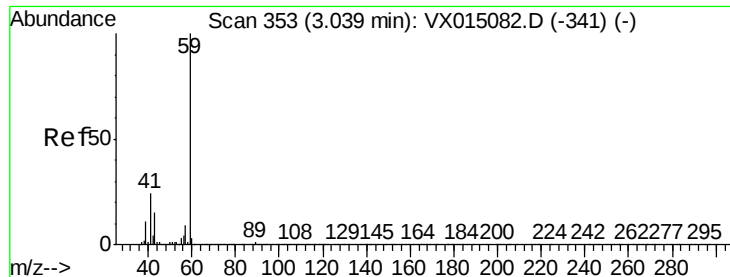
Ion Ratio Lower Upper

101 100

85 42.3 33.7 50.5

151 82.3 64.0 96.0



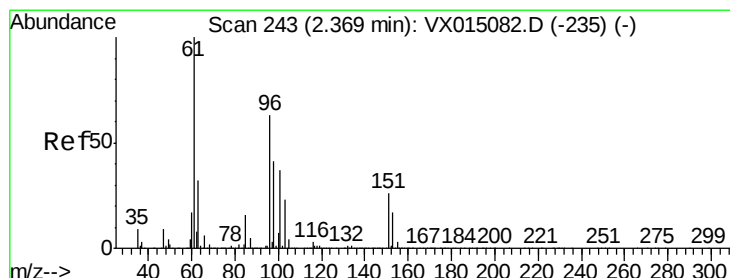
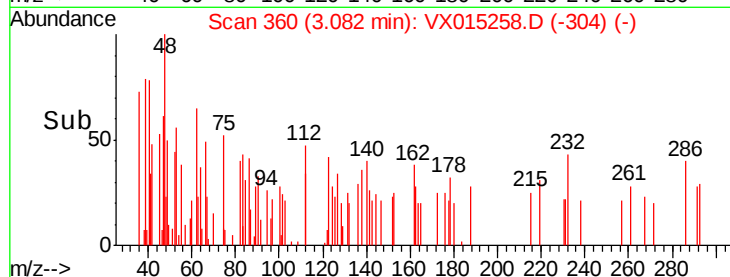
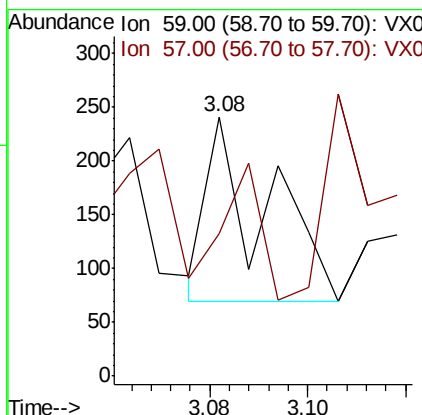
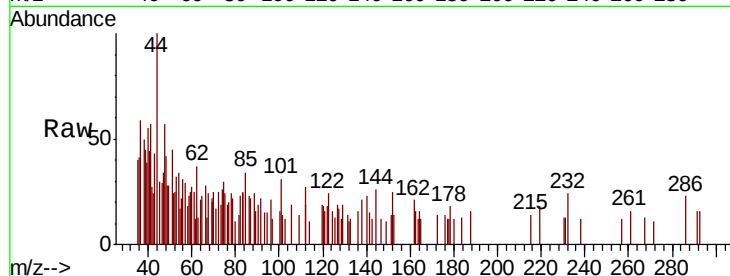


#11

Tert butyl alcohol
Concen: 0.256 ug/l
RT: 3.08 min Scan# 360
Delta R.T. 0.04 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

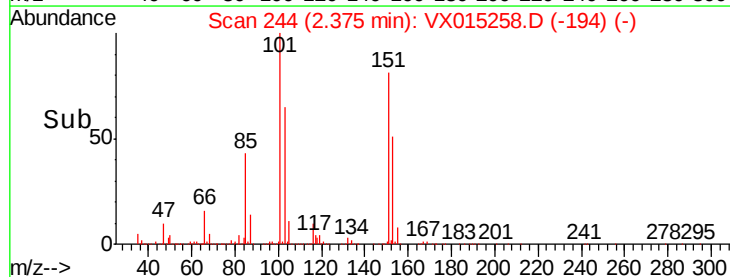
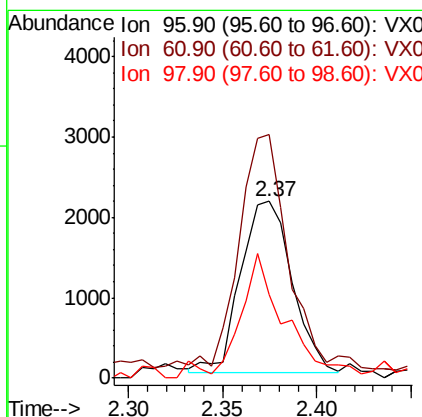
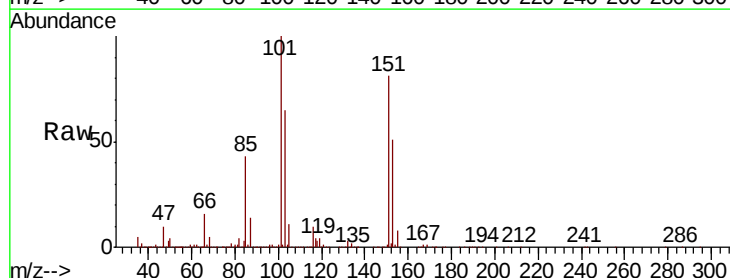
Tot Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
57 83.2 8.2 12.4#

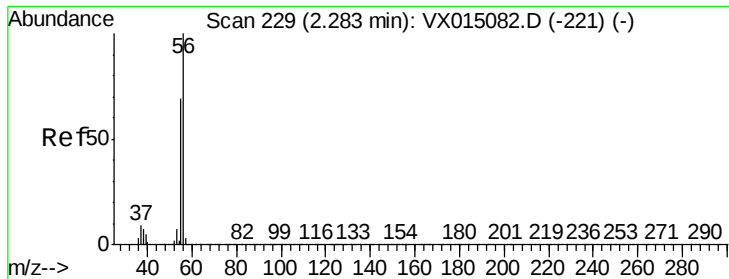


#12

1,1-Dichloroethene
Concen: 1.531 ug/l
RT: 2.37 min Scan# 244
Delta R.T. 0.01 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Tgt Ion: 96 Resp: 4040
Ion Ratio Lower Upper
96 100
61 135.4 126.2 189.4
98 41.6 51.4 77.0#

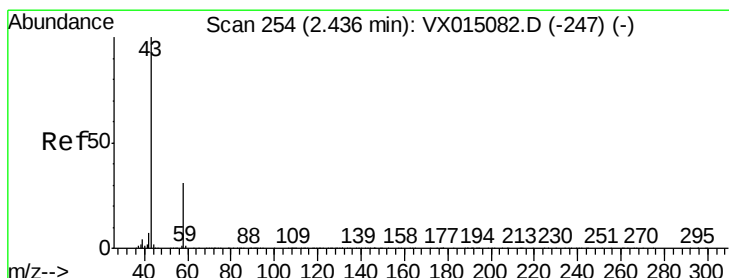
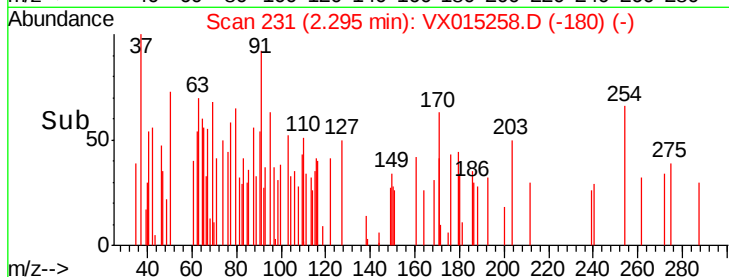
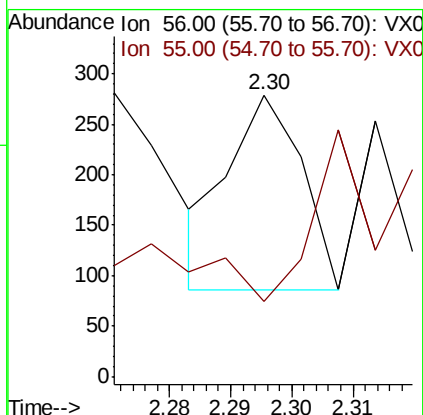
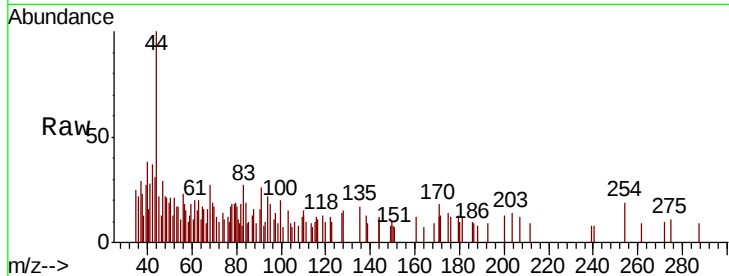




#13
Acrolein
Concen: 0.305 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

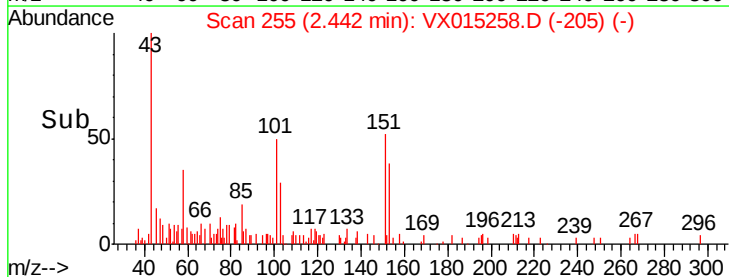
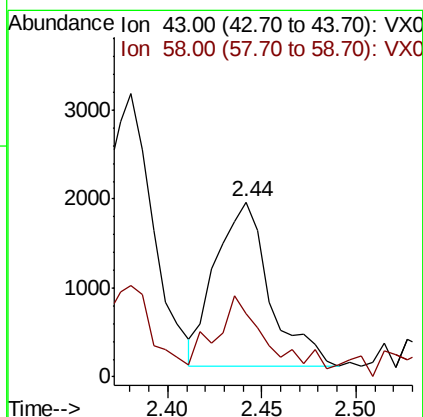
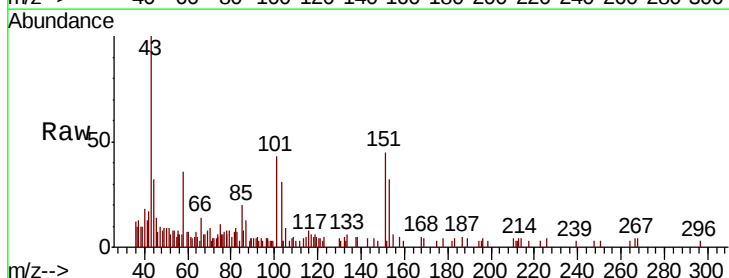
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

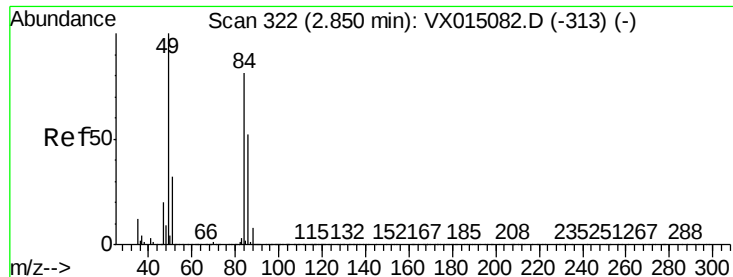
Tot Ion: 56 Resp: 160
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#



#16
Acetone
Concen: 2.809 ug/l
RT: 2.44 min Scan# 255
Delta R.T. 0.01 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Tgt Ion: 43 Resp: 3663
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2





#20

Methvlene Chloride

Concen: 0.235 ug/l

RT: 2.86 min Scan# 323

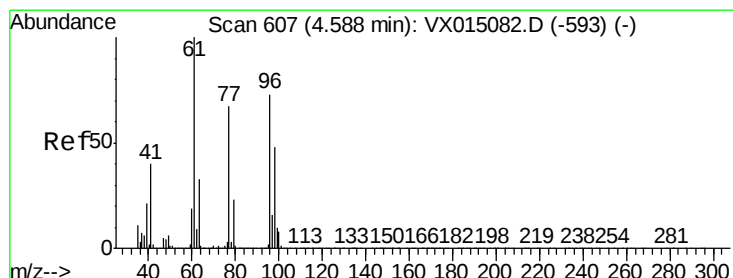
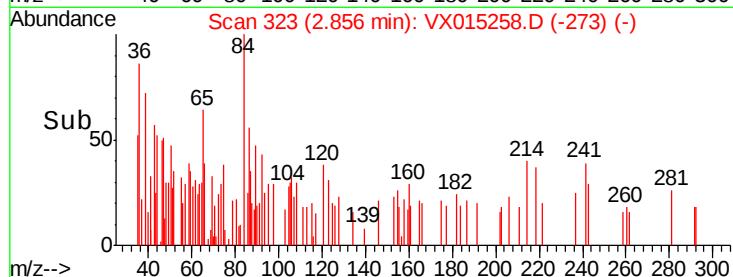
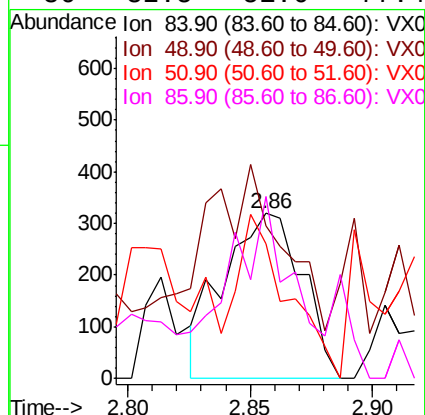
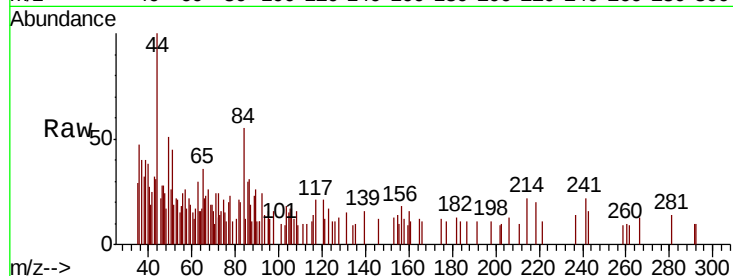
Delta R.T. 0.01 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

Tot Ion:	84	Resp:	717
Ion	Ratio	Lower	Upper
84	100		
49	37.5	99.4	149.2#
51	81.3	31.5	47.3#
86	82.5	51.6	77.4#



#27

cis-1,2-Dichloroethene

Concen: 0.716 ug/l

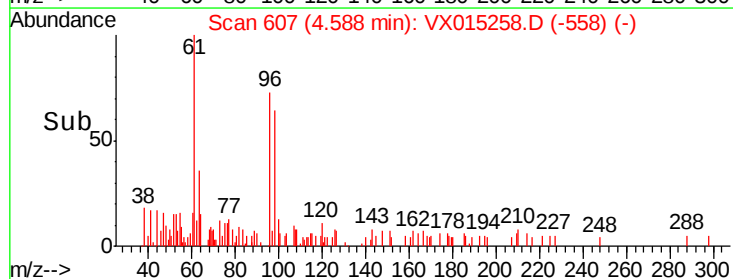
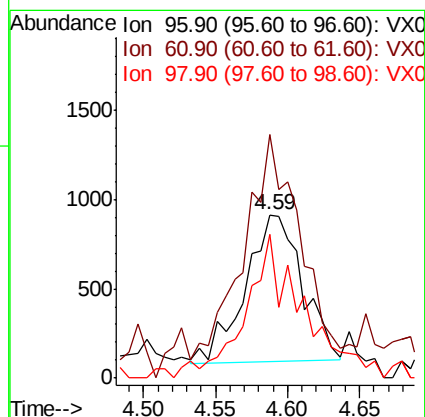
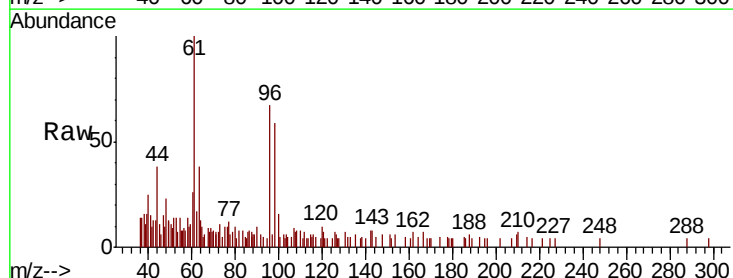
RT: 4.59 min Scan# 607

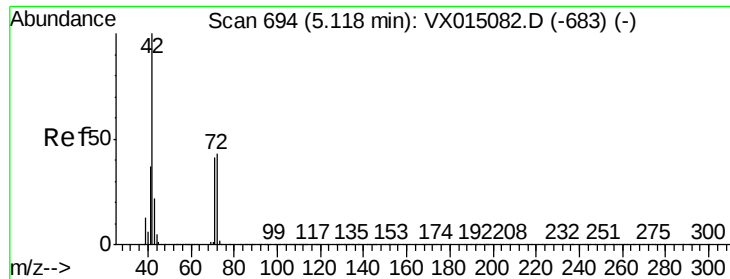
Delta R.T. -0.00 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Tgt Ion:	96	Resp:	2263
Ion	Ratio	Lower	Upper
96	100		
61	155.4	0.0	286.8
98	99.1	0.0	128.4





#29

Tetrahydrofuran

Concen: 0.554 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.02 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20200309

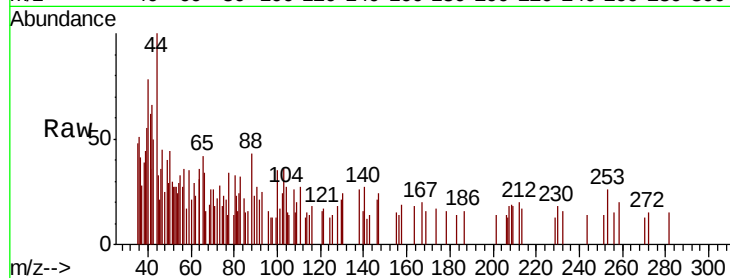
Tot Ion: 42 Resp: 682

Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

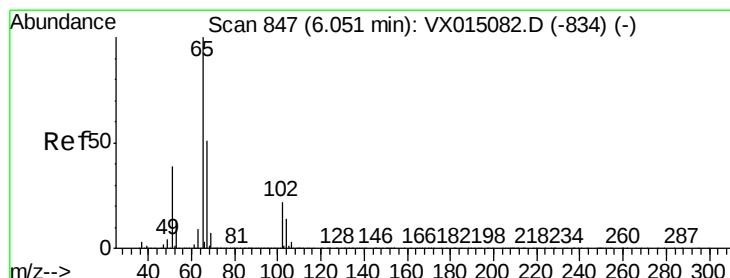
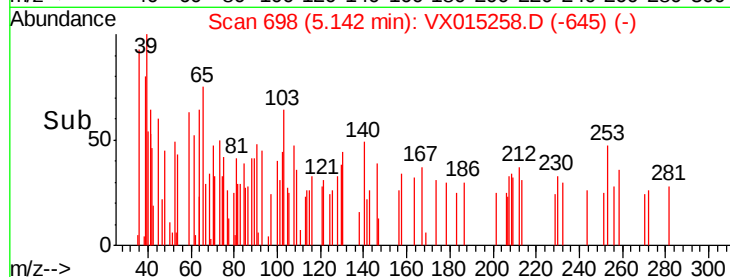
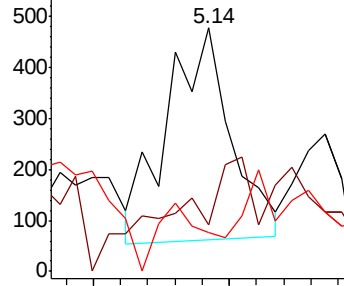
71 24.6 33.3 49.9#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.164 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX015258.D

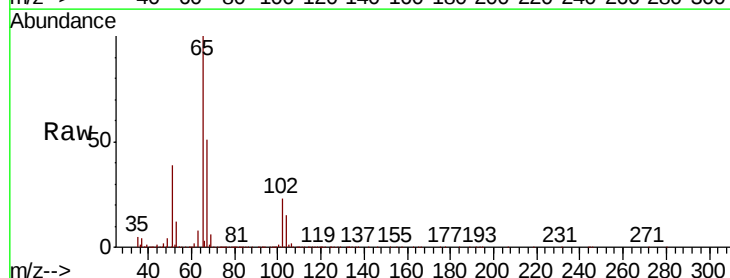
Acq: 13 Mar 2020 14:35

Tgt Ion: 65 Resp: 151892

Ion Ratio Lower Upper

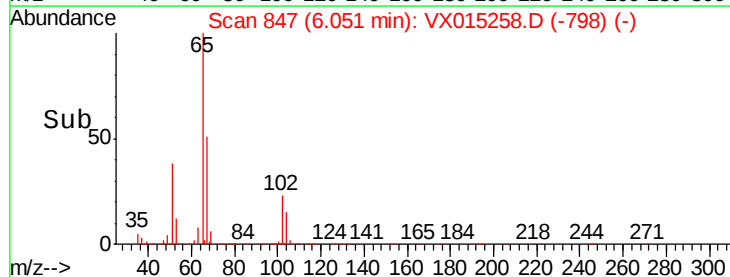
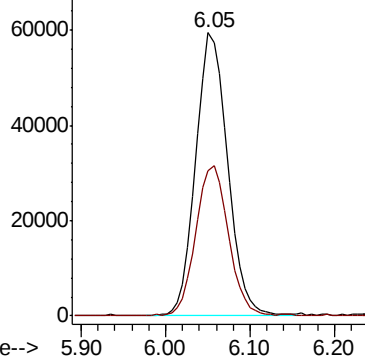
65 100

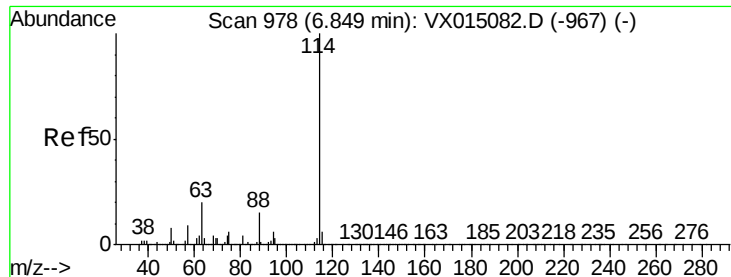
67 54.3 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

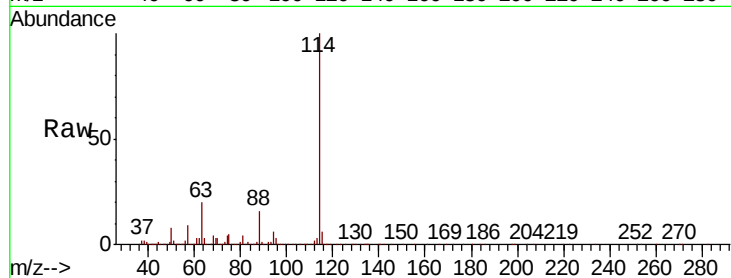




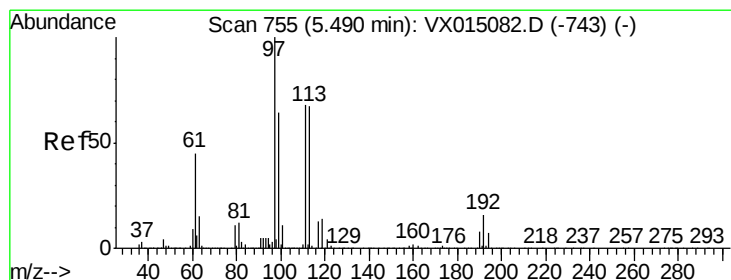
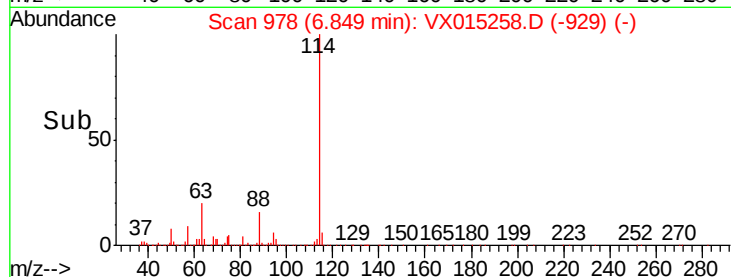
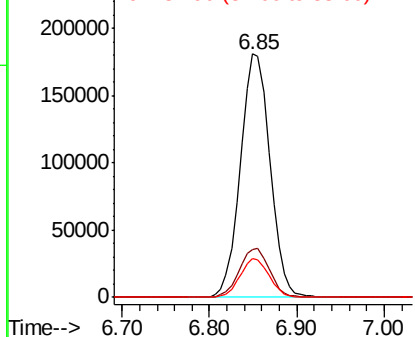
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

Tot Ion:	114	Resp:	426869
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.0
88	16.1	0.0	30.6

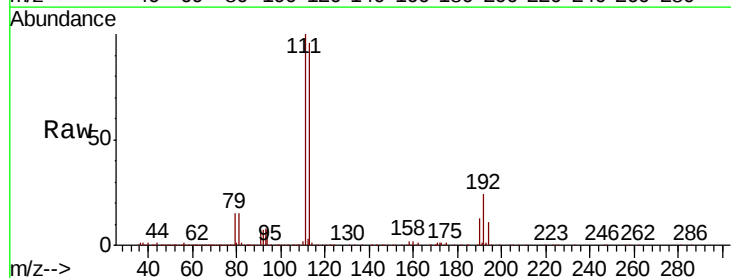


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

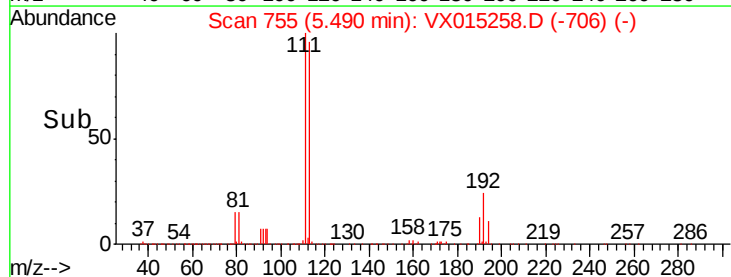
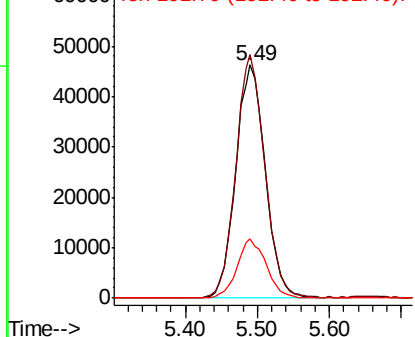


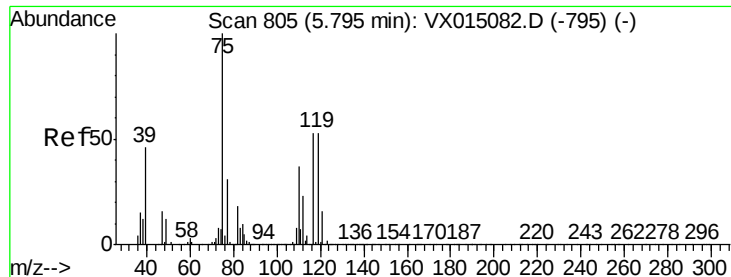
#35
Dibromofluoromethane
Concen: 49.069 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Tgt Ion:	113	Resp:	132143
Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.6	123.8
192	24.8	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

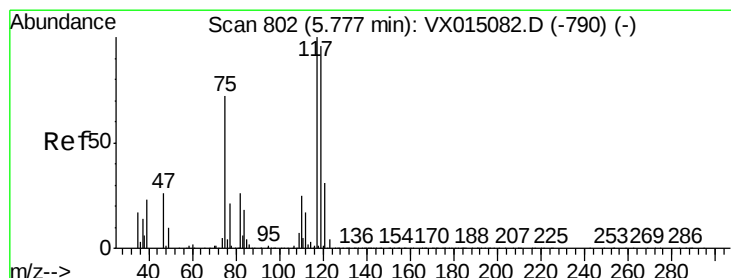
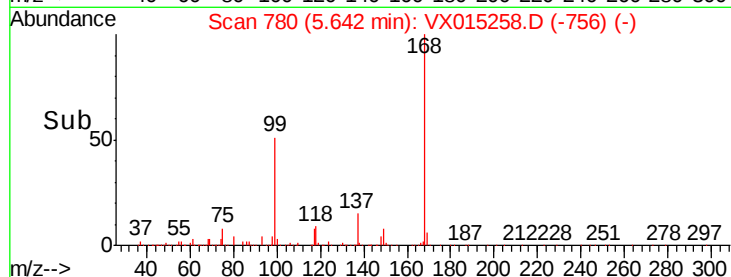
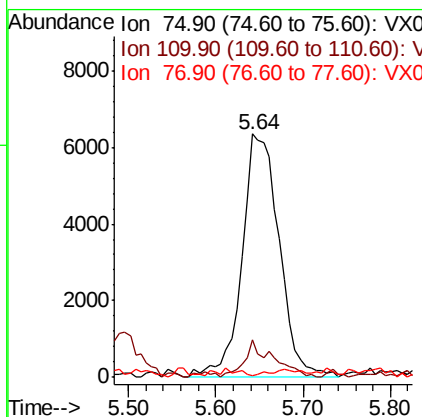
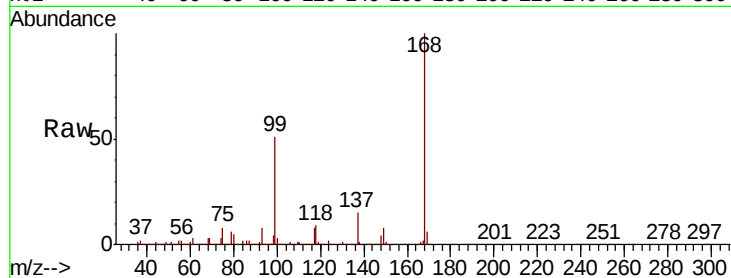




#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX015258.D
 Acq: 13 Mar 2020 14:35

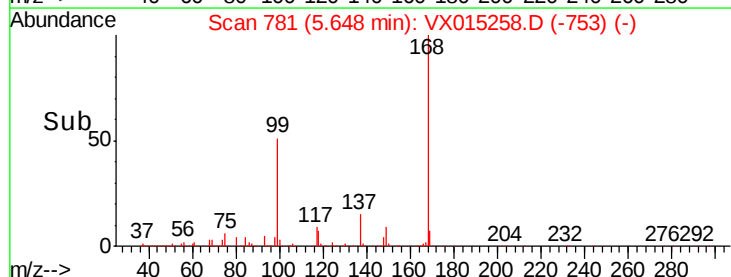
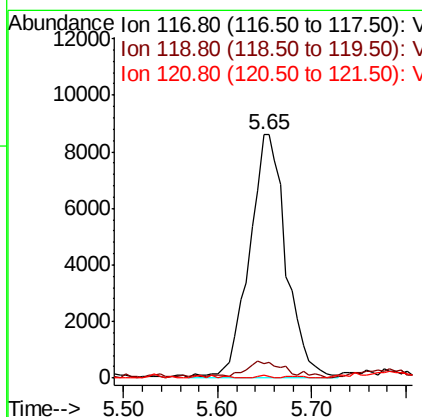
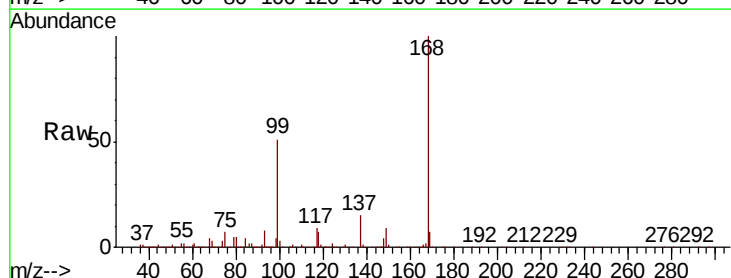
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20200309

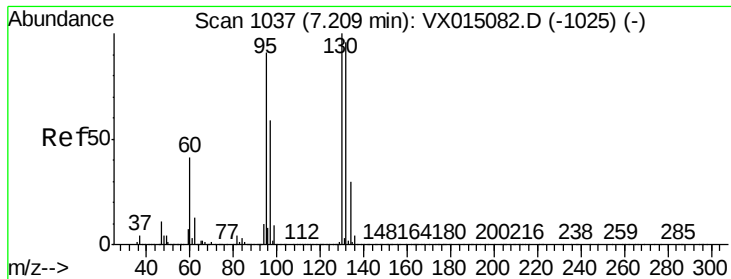
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.8	17.9	53.8#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.340 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX015258.D
 Acq: 13 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.9	115.3#
121	2.2	24.6	37.0#





#44

Trichloroethene

Concen: 17.720 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

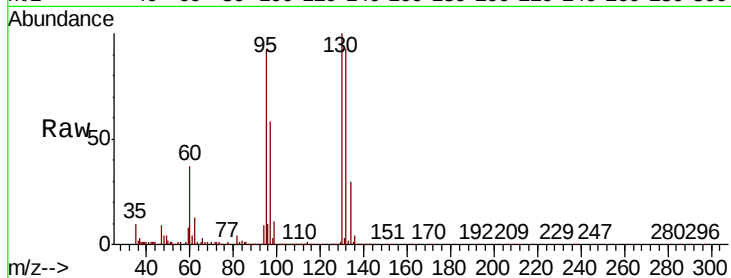
RE131D3-20200309

Tot Ion:130 Resp: 57776

Ion Ratio Lower Upper

130 100

95 92.0 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

30000

25000

20000

15000

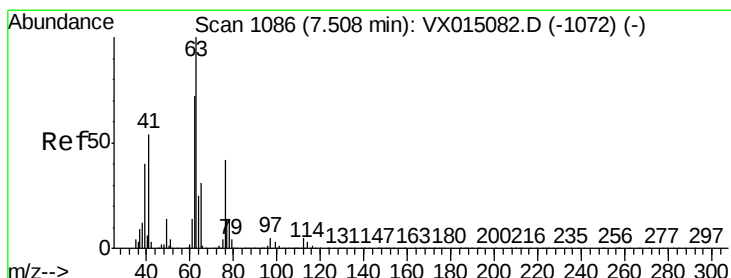
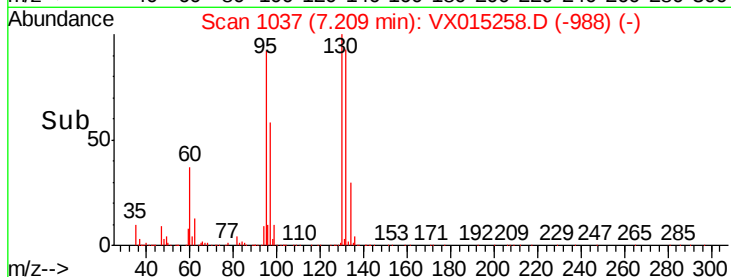
10000

5000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#45

1,2-Dichloropropane

Concen: 0.304 ug/l

RT: 7.52 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX015258.D

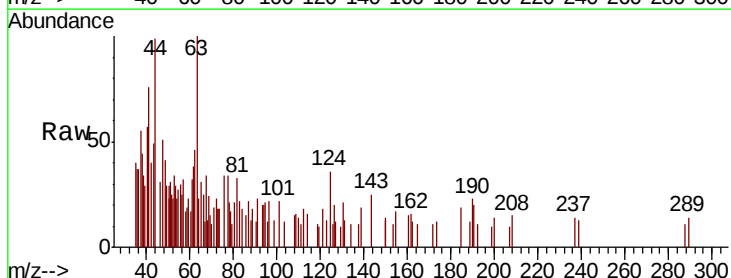
Acq: 13 Mar 2020 14:35

Tgt Ion: 63 Resp: 921

Ion Ratio Lower Upper

63 100

65 10.9 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

7.52

500

400

300

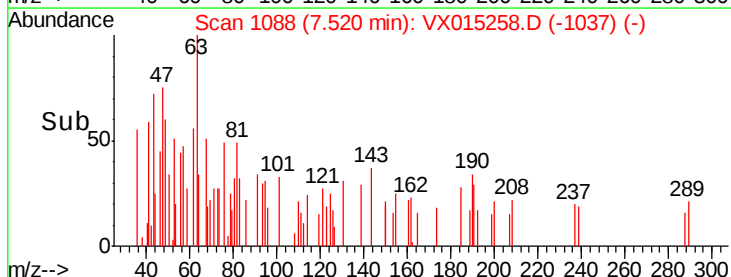
200

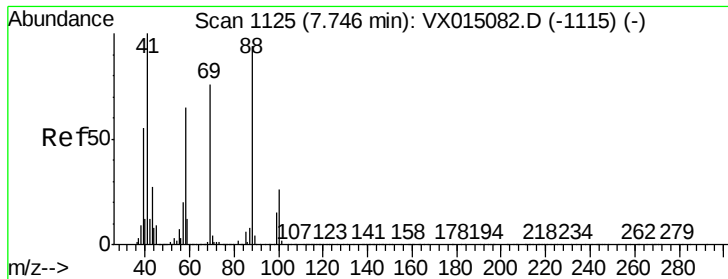
100

0

7.50 7.55

Time-->

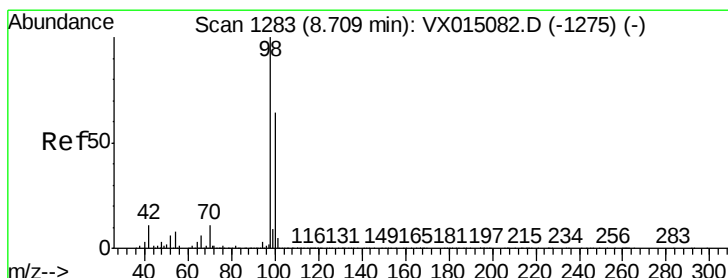
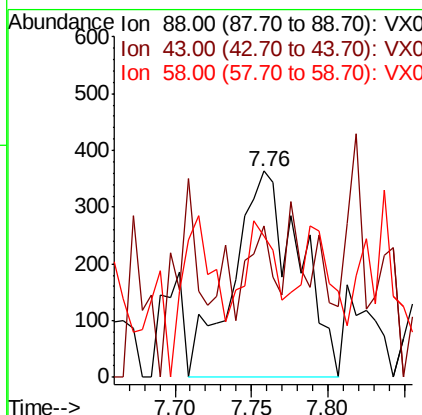
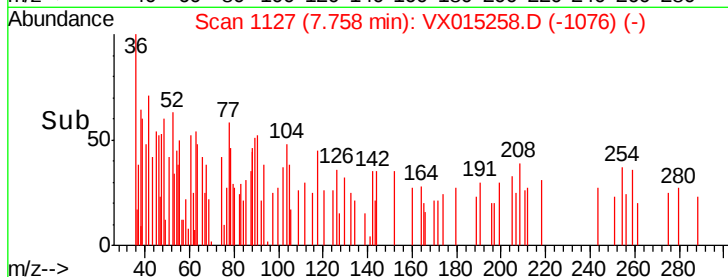
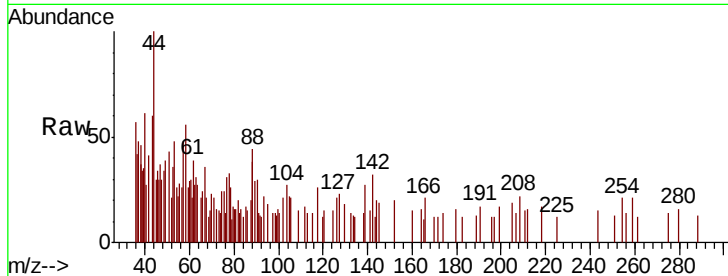




#49
1,4-Dioxane
Concen: 15.255 ug/l
RT: 7.76 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

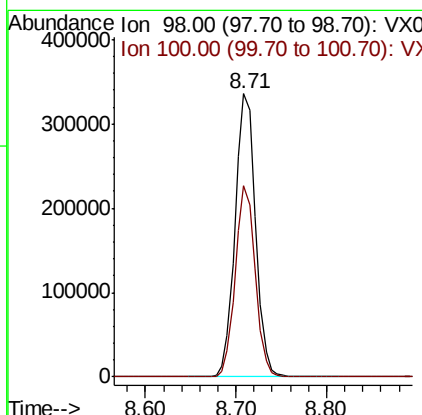
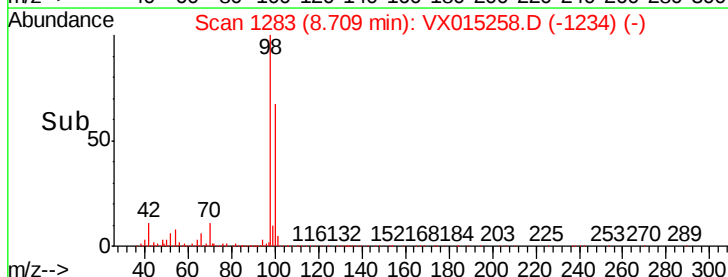
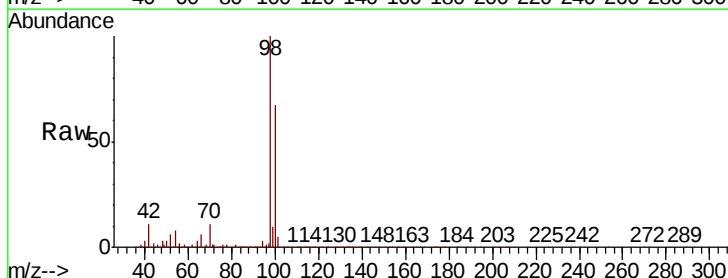
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

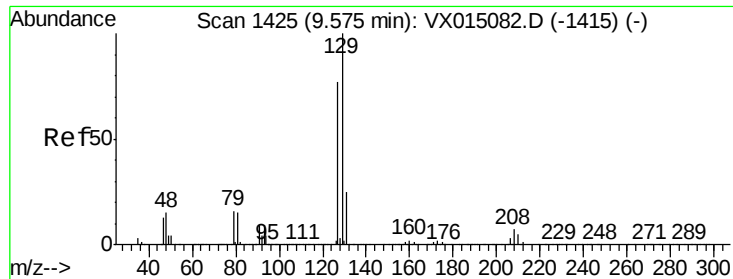
Tot Ion: 88 Resp: 1081
Ion Ratio Lower Upper
88 100
43 27.2 27.0 40.4
58 20.9 55.6 83.4#



#50
Toluene-d8
Concen: 51.306 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Tgt Ion: 98 Resp: 525566
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6

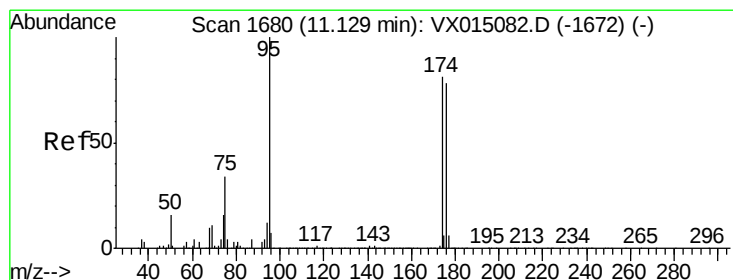
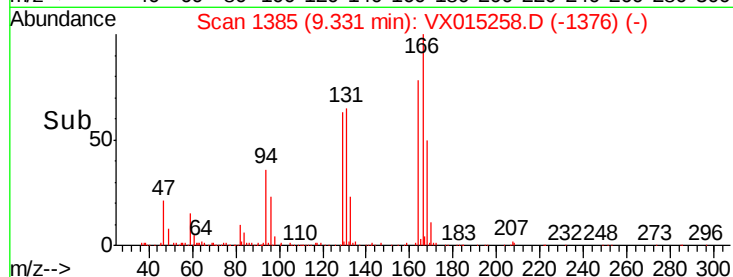
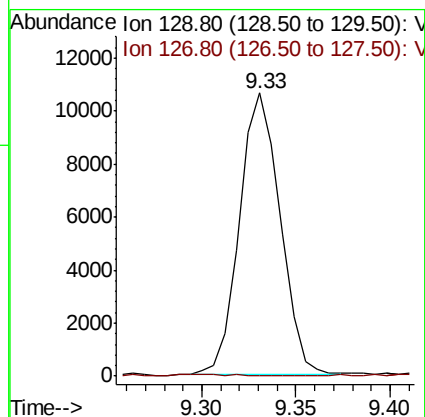
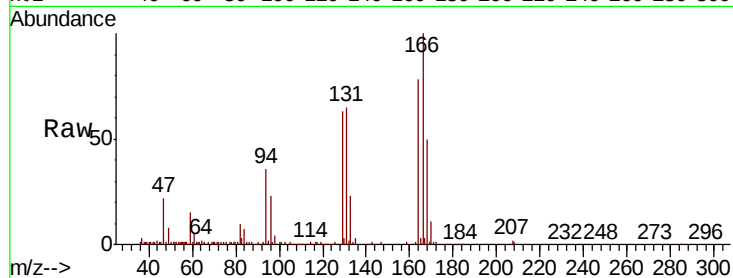




#60
 Dibromochloromethane
 Concen: 5.121 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.24 min
 Lab File: VX015258.D
 Acq: 13 Mar 2020 14:35

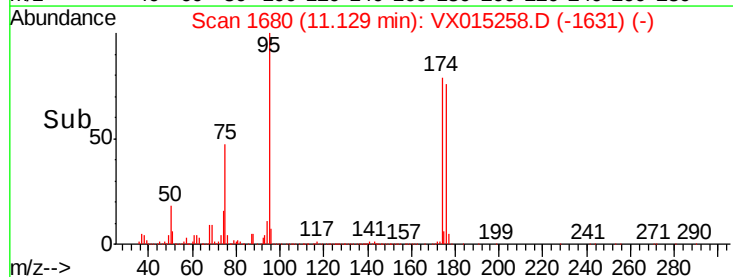
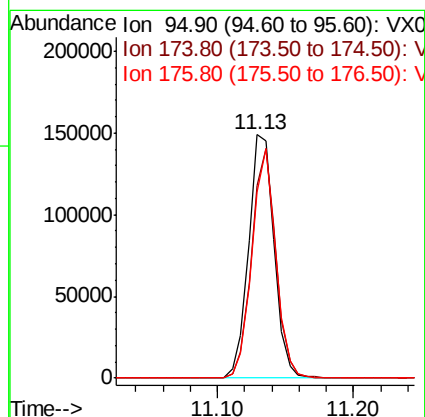
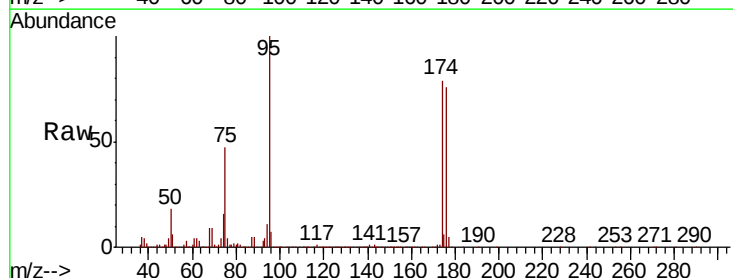
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-20200309

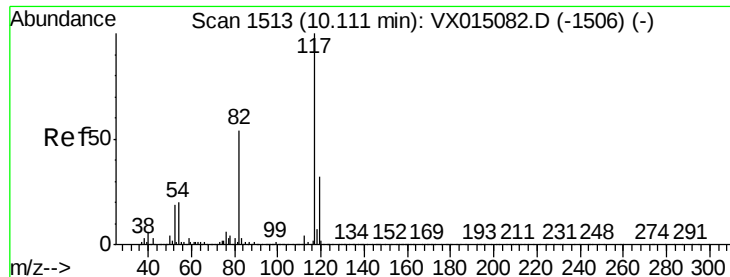
Tot Ion:129 Resp: 15850
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 53.657 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.00 min
 Lab File: VX015258.D
 Acq: 13 Mar 2020 14:35

Tgt Ion: 95 Resp: 196055
 Ion Ratio Lower Upper
 95 100
 174 89.8 0.0 177.6
 176 88.5 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: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20200309

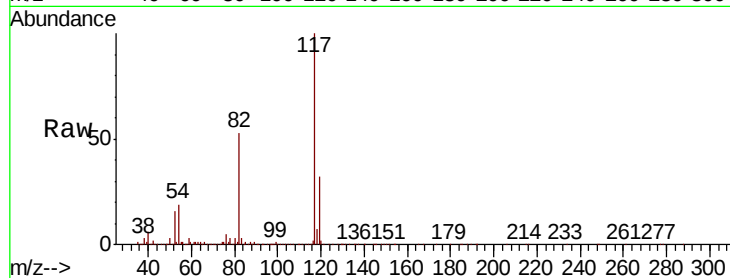
Tot Ion:117 Resp: 417533

Ion Ratio Lower Upper

117 100

82 53.2 43.3 64.9

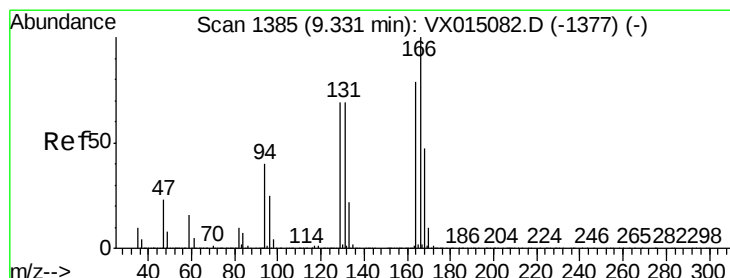
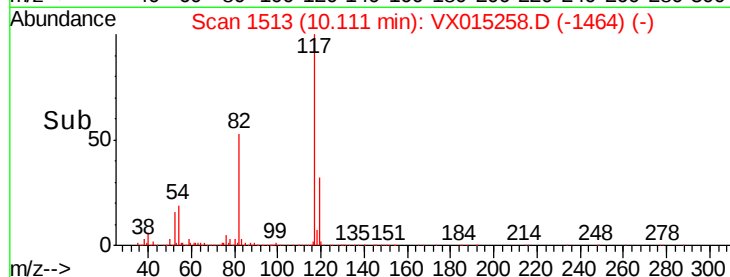
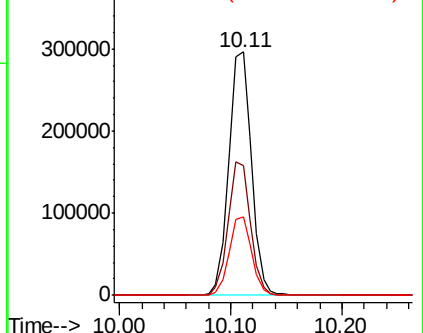
119 32.4 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 5.592 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Tgt Ion:164 Resp: 19304

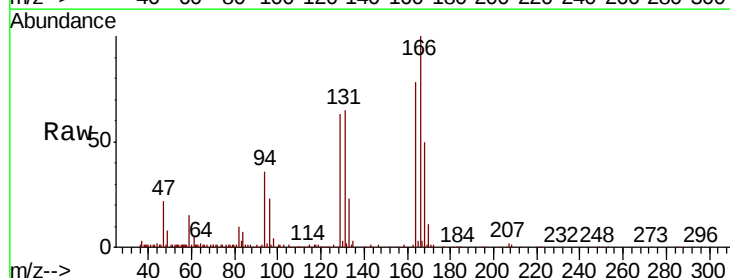
Ion Ratio Lower Upper

164 100

166 128.5 101.1 151.7

129 80.3 69.4 104.0

131 84.1 69.8 104.8

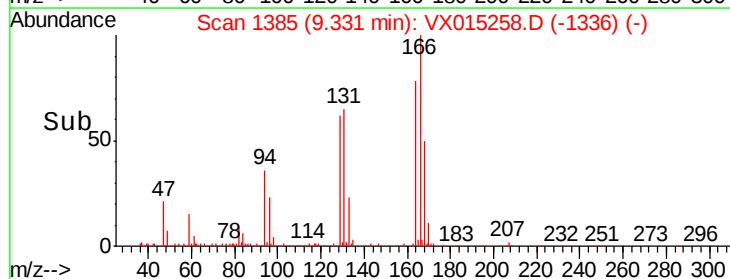
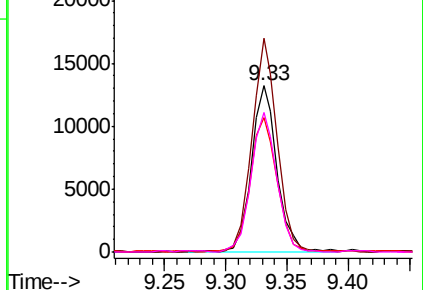


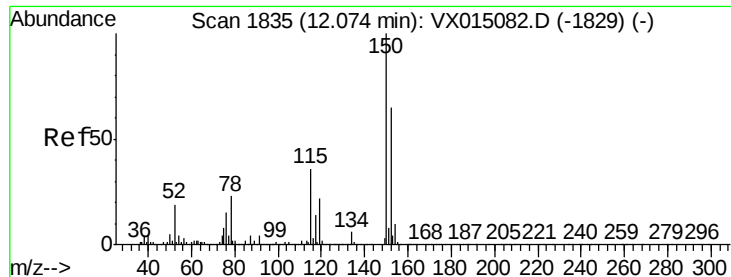
Abundance Ion 163.80 (163.50 to 164.50): V

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



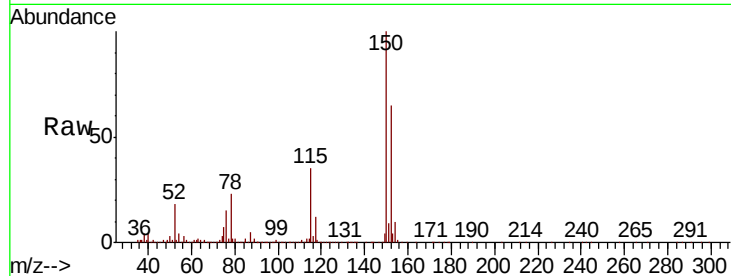


#72

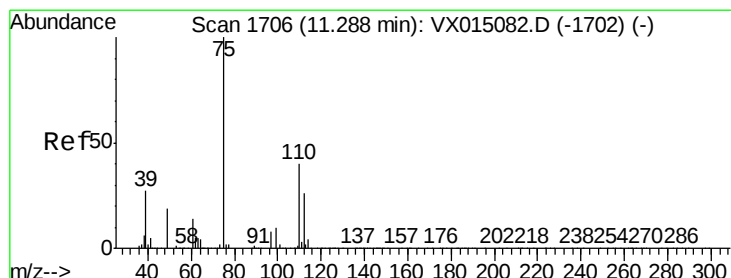
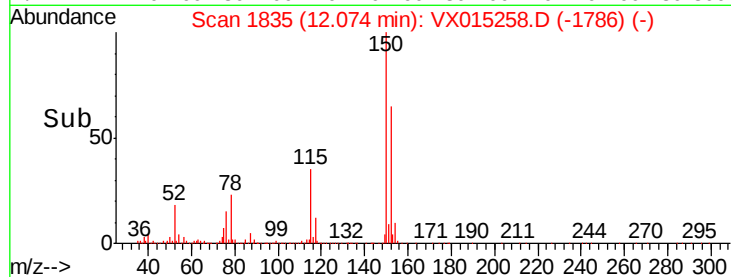
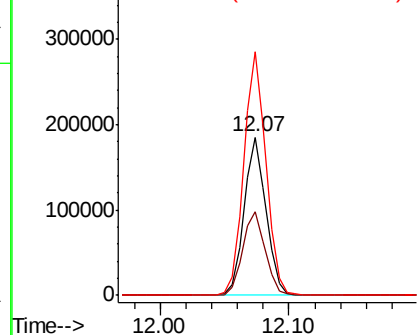
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-20200309

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	38.2	114.6
150	156.0	0.0	343.8



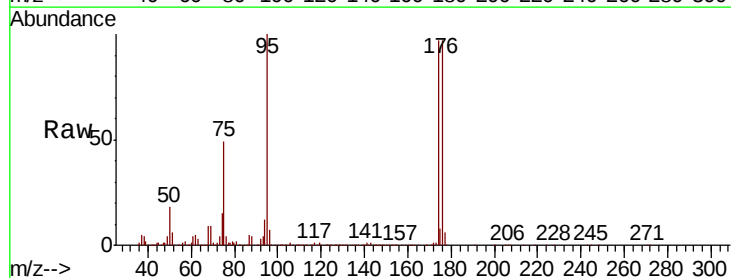
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



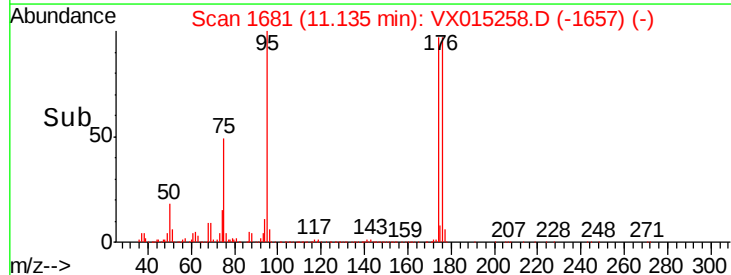
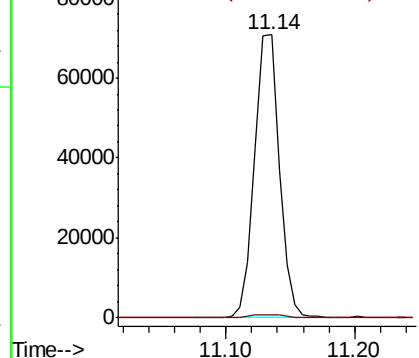
#76

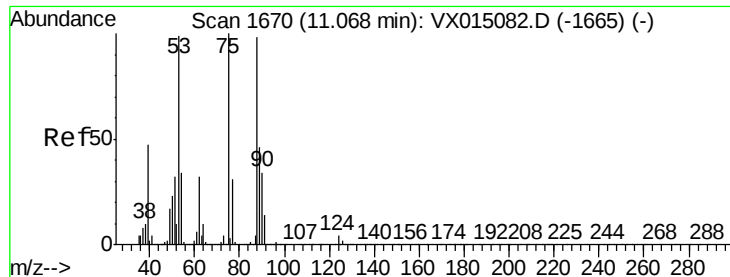
1,2,3-Trichloropropane
Concen: 21.799 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.15 min
Lab File: VX015258.D
Acq: 13 Mar 2020 14:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	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: 61.865 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-20200309

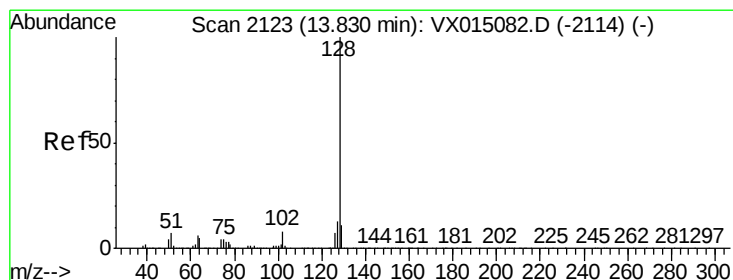
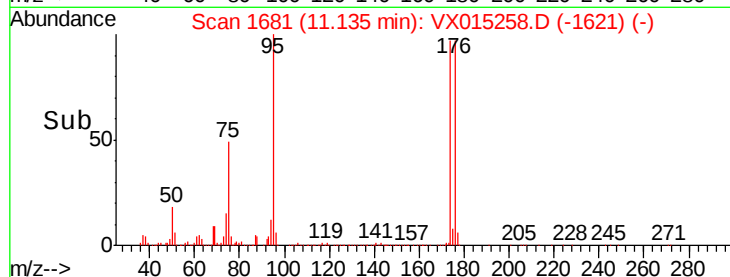
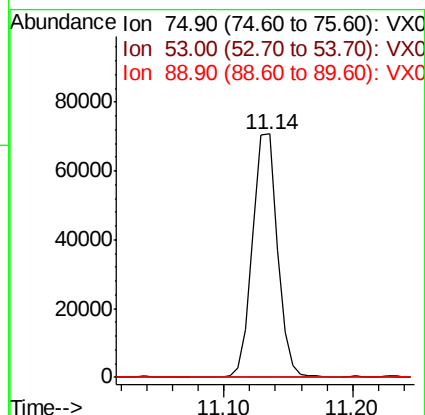
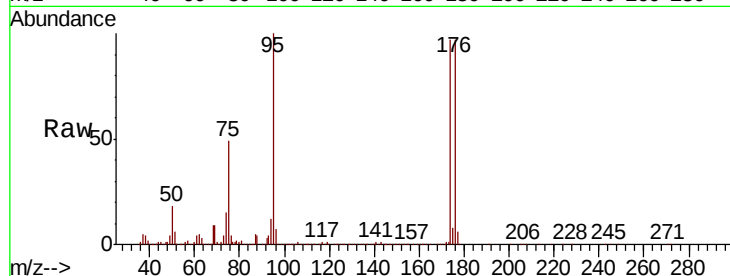
Tot Ion: 75 Resp: 94256

Ion Ratio Lower Upper

75 100

53 0.3 77.9 116.9#

89 0.0 36.2 54.2#



#95

Naphthalene

Concen: 1.457 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015258.D

Acq: 13 Mar 2020 14:35

Tgt Ion: 128 Resp: 553

Ion Ratio Lower Upper

128 100

127 29.1 10.3 15.5#

129 45.0 8.6 13.0#

