

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013822.D
 Acq On : 07 Dec 2019 00:47
 Operator : JC/SP
 Sample : K6185-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20191205

Quant Time: Dec 07 02:45:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	627649	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	954031	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	846429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	360834	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	345137	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
35) Dibromofluoromethane	5.49	113	286766	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	8.71	98	1121764	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
62) 4-Bromofluorobenzene	11.13	95	369911	44.64	ug/l	0.00
Spiked Amount			Recovery	=	89.28%	

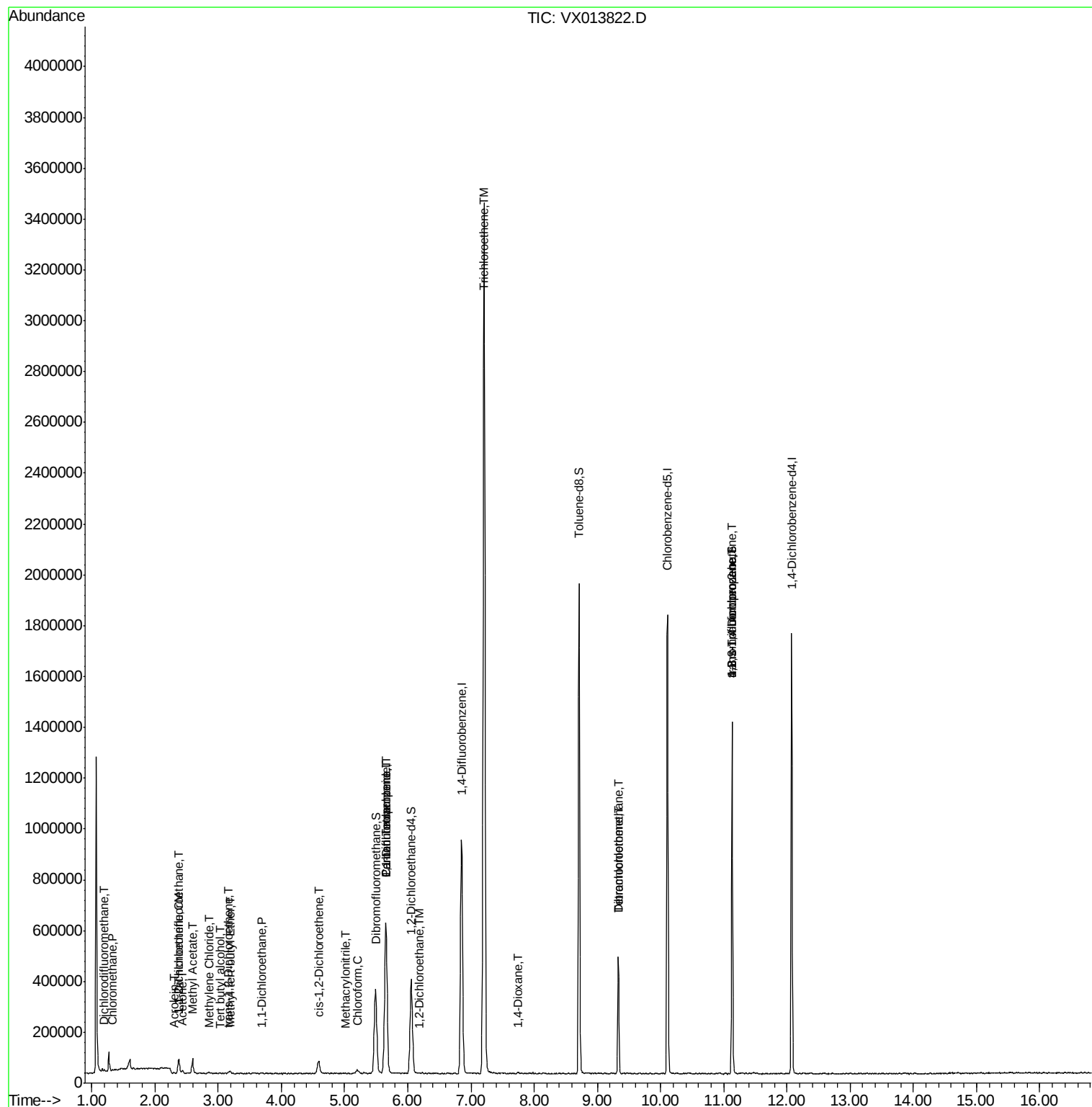
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1599	0.229	ug/l	83
3) Chloromethane	1.32	50	1735	0.221	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	19985	3.340	ug/l	91
11) Tert butyl alcohol	3.03	59	2208	1.228	ug/l #	30
12) 1,1-Dichloroethene	2.37	96	4631	0.775	ug/l #	75
13) Acrolein	2.30	56	411	6.337	ug/l #	55
16) Acetone	2.43	43	7947	2.209	ug/l #	85
18) Methyl Acetate	2.59	43	16228	1.620	ug/l #	55
19) Methyl tert-butyl Ether	3.19	73	10200	0.515	ug/l	91
20) Methylene Chloride	2.86	84	2004	0.290	ug/l #	65
21) trans-1,2-Dichloroethene	3.16	96	1336	0.205	ug/l #	42
24) 1,1-Dichloroethane	3.69	63	6203	0.544	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	32652	4.369	ug/l	88
30) Chloroform	5.21	83	18532	1.601	ug/l	87
36) 1,1-Dichloropropene	5.65	75	43391	5.010	ug/l #	51
38) Carbon Tetrachloride	5.65	117	53655	6.719	ug/l #	16
41) Methacrylonitrile	5.01	41	1140	0.214	ug/l #	60
42) 1,2-Dichloroethane	6.18	62	2638	0.293	ug/l	97
44) Trichloroethene	7.21	130	1366524	188.776	ug/l	99
49) 1,4-Dioxane	7.75	88	4545	26.128	ug/l #	86
60) Dibromochloromethane	9.33	129	78803	11.499	ug/l #	11
64) Tetrachloroethene	9.33	164	92305	14.623	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	181079	22.312	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	181079	61.041	ug/l #	11

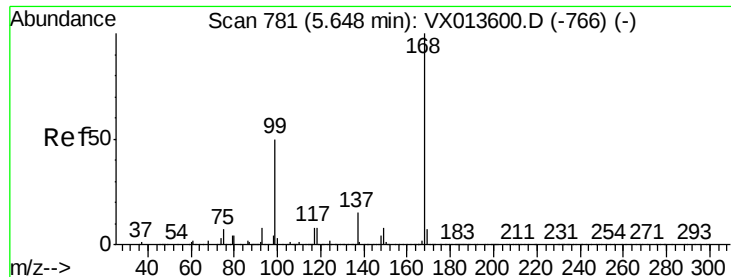
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

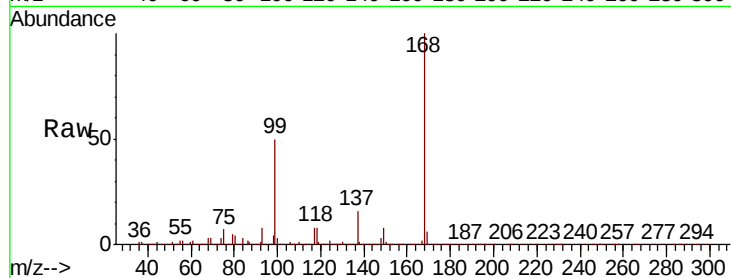
RE131D1-20191205

Tot Ion:168 Resp: 627649

Ion Ratio Lower Upper

168 100

99 49.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

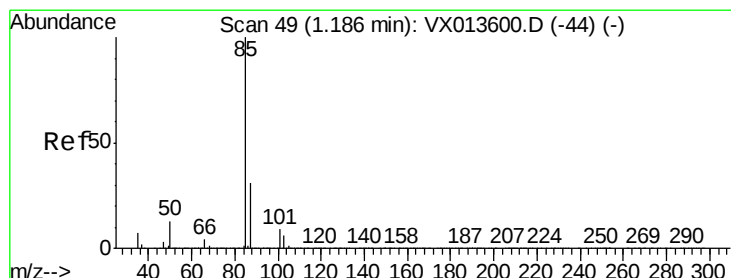
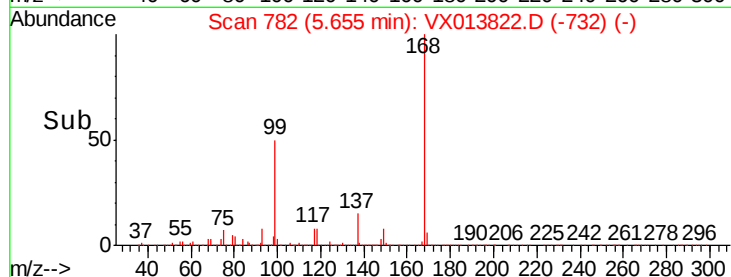
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.229 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013822.D

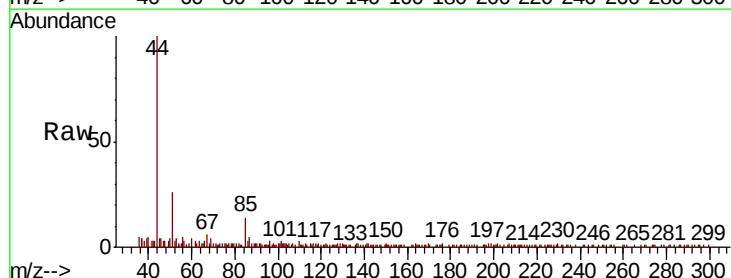
Acq: 07 Dec 2019 00:47

Tgt Ion: 85 Resp: 1599

Ion Ratio Lower Upper

85 100

87 40.7 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

1500

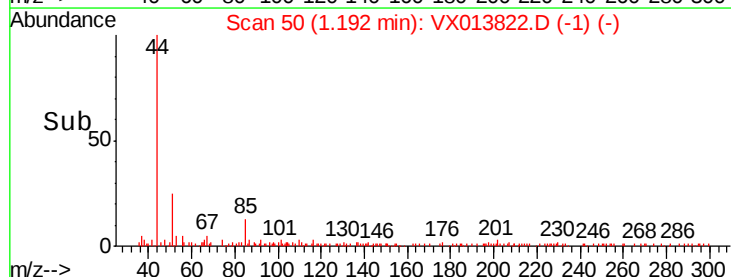
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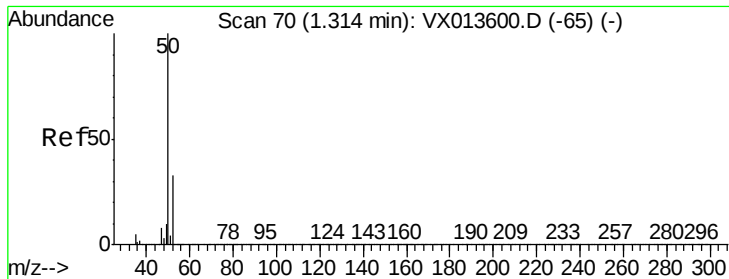
500

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Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

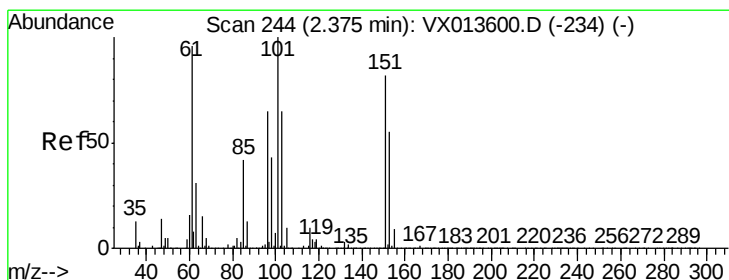
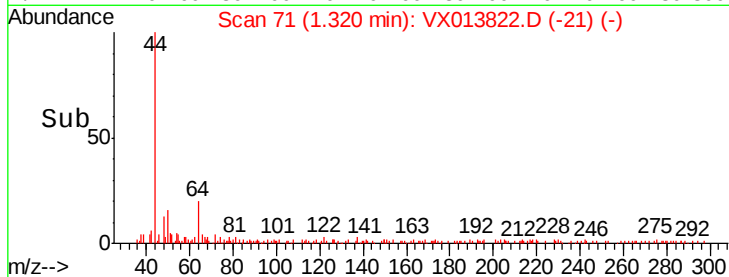
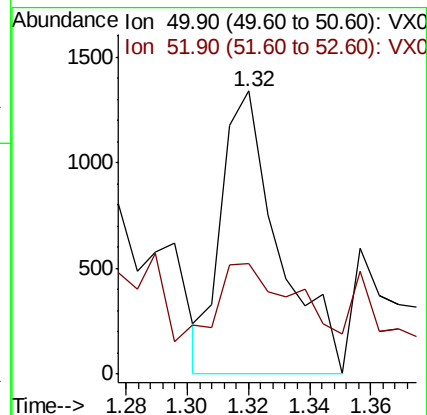
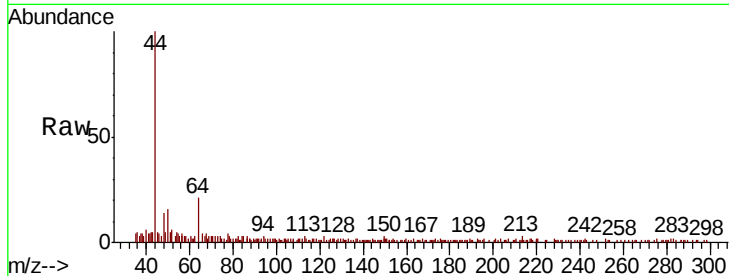
RE131D1-20191205

Tot Ion: 50 Resp: 1735

Ion Ratio Lower Upper

50 100

52 29.8 26.0 39.0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.340 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

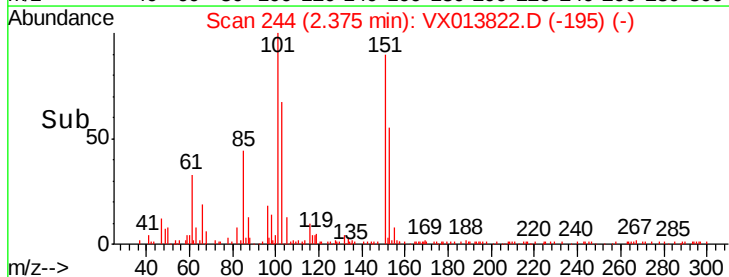
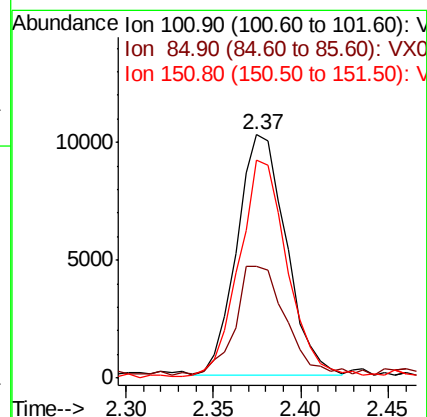
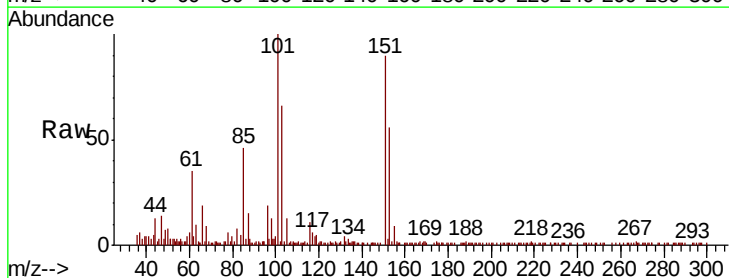
Tgt Ion: 101 Resp: 19985

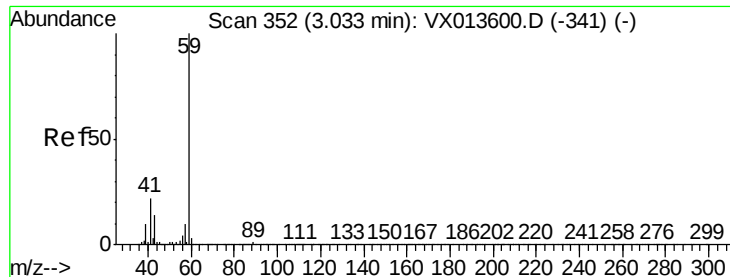
Ion Ratio Lower Upper

101 100

85 48.3 33.9 50.9

151 88.4 64.2 96.2

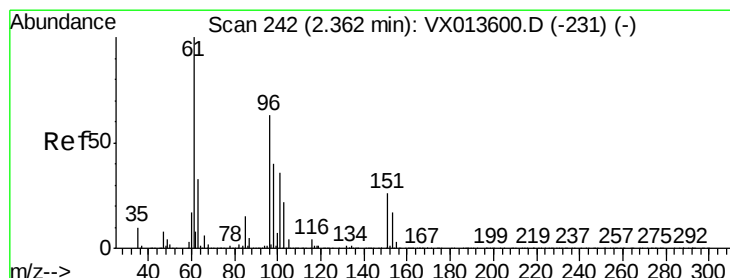
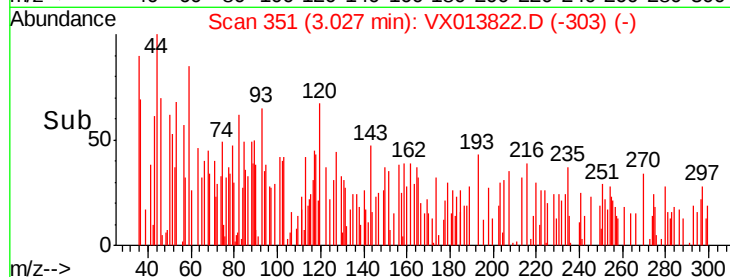
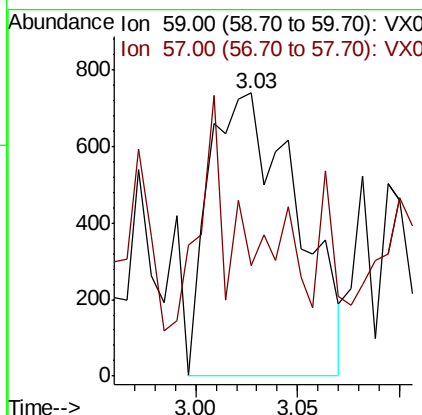
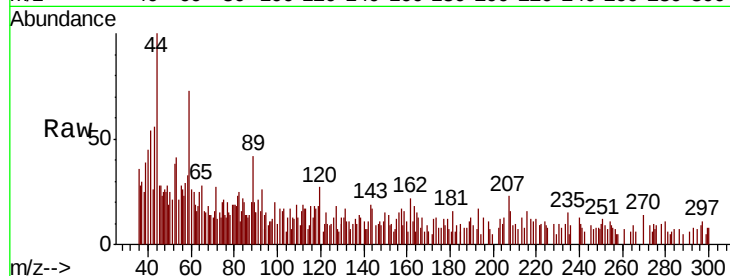




#11
Tert butyl alcohol
Concen: 1.228 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

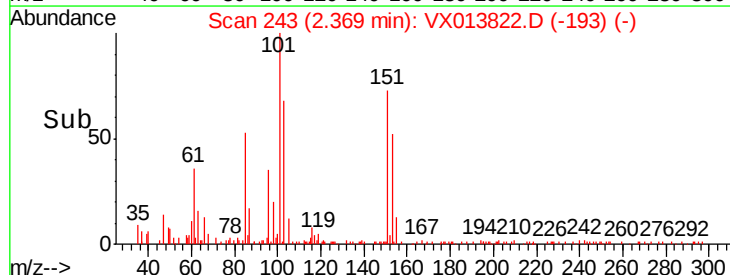
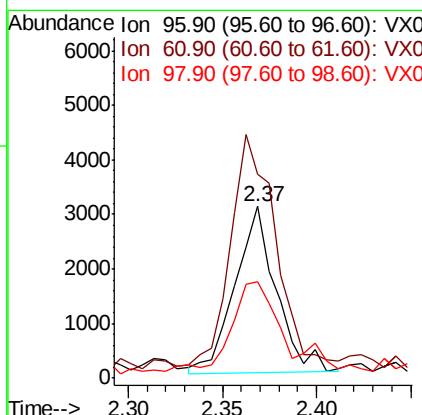
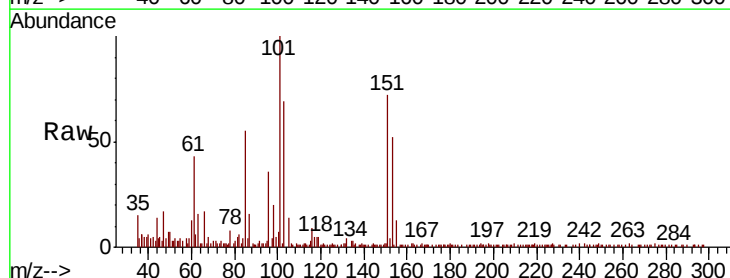
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205

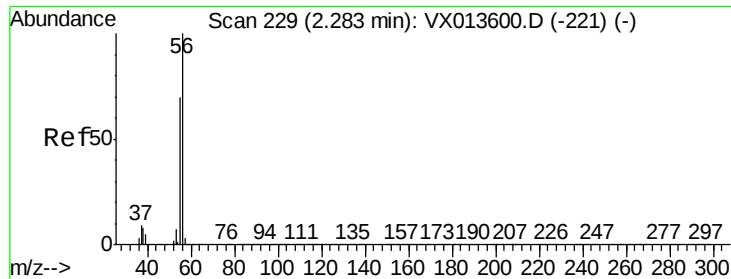
Tot Ion: 59 Resp: 2208
Ion Ratio Lower Upper
59 100
57 35.6 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.775 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

Tgt Ion: 96 Resp: 4631
Ion Ratio Lower Upper
96 100
61 118.2 126.6 190.0#
98 53.6 50.6 76.0





#13

Acrolein

Concen: 6.337 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

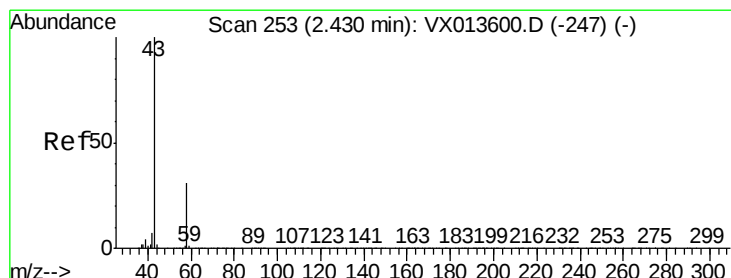
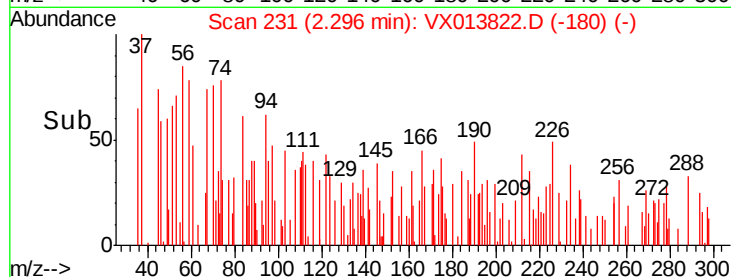
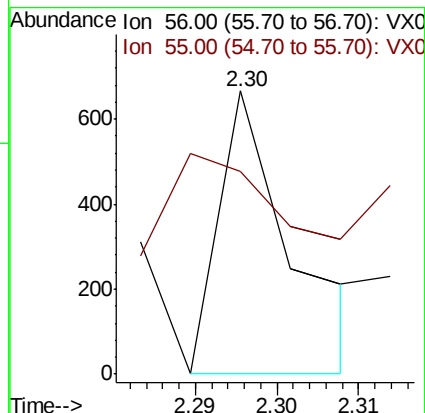
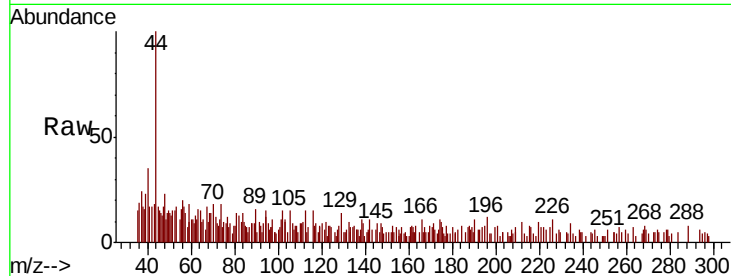
RE131D1-20191205

Tot Ion: 56 Resp: 411

Ion Ratio Lower Upper

56 100

55 107.3 56.2 84.4#



#16

Acetone

Concen: 2.209 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013822.D

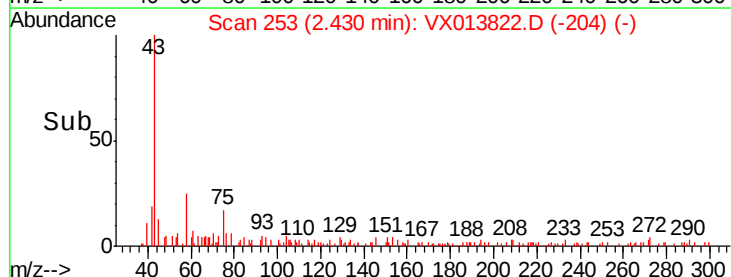
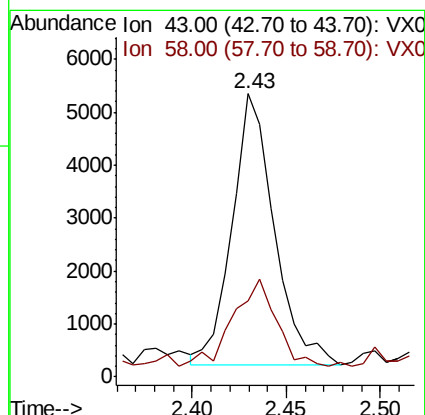
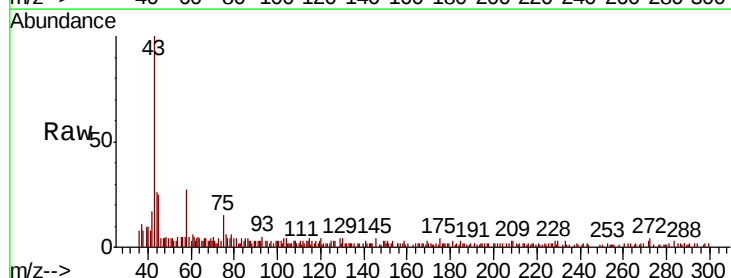
Acq: 07 Dec 2019 00:47

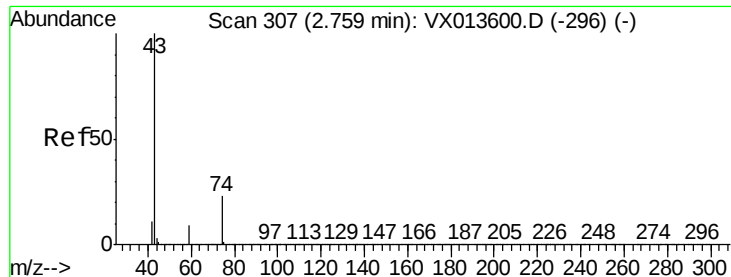
Tgt Ion: 43 Resp: 7947

Ion Ratio Lower Upper

43 100

58 22.6 24.6 36.8#

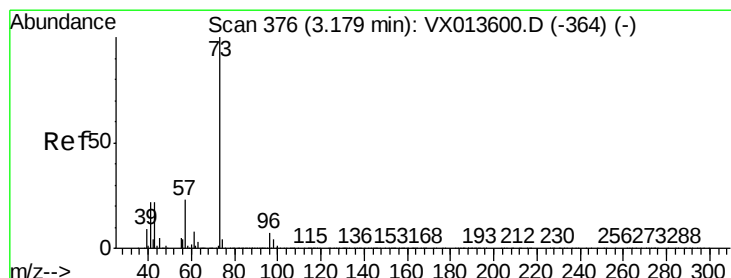
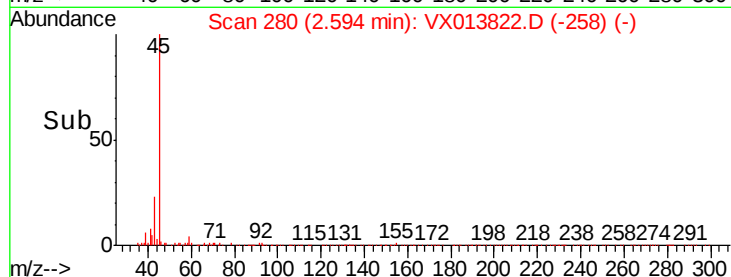
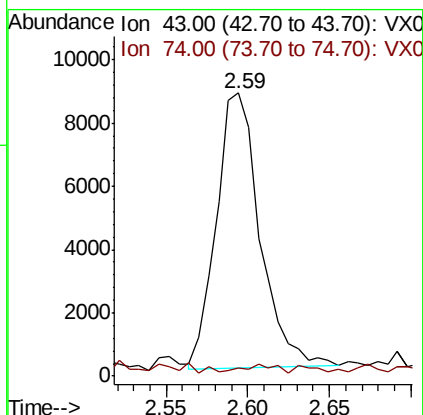
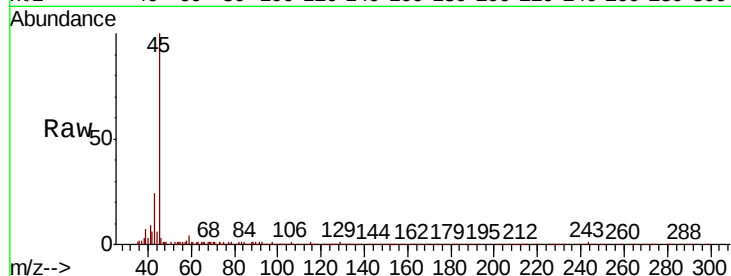




#18
Methyl Acetate
Concen: 1.620 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

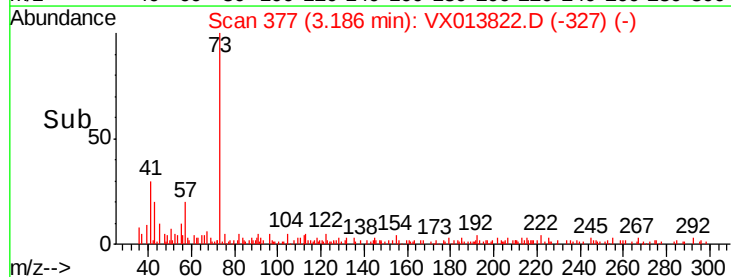
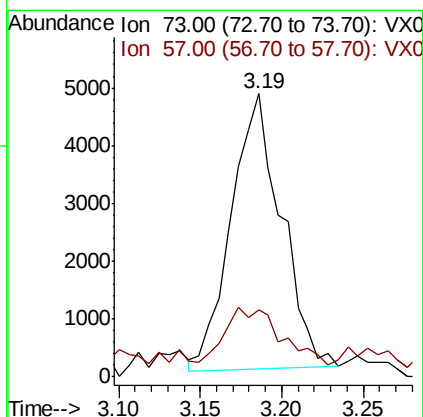
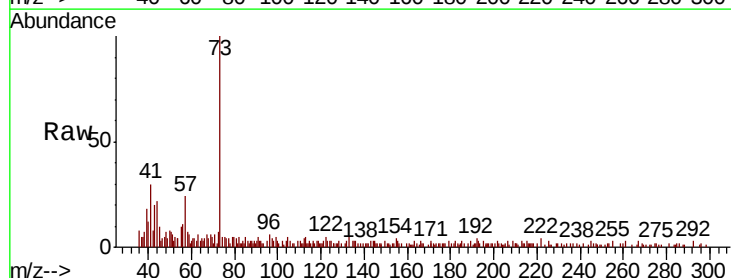
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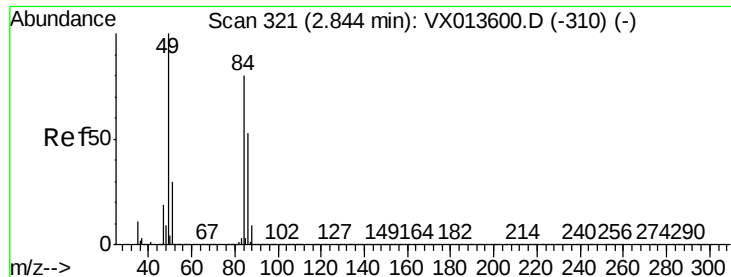
Tot Ion: 43 Resp: 16228
Ion Ratio Lower Upper
43 100
74 2.1 19.5 29.3#



#19
Methyl tert-butyl Ether
Concen: 0.515 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

Tgt Ion: 73 Resp: 10200
Ion Ratio Lower Upper
73 100
57 18.7 18.3 27.5

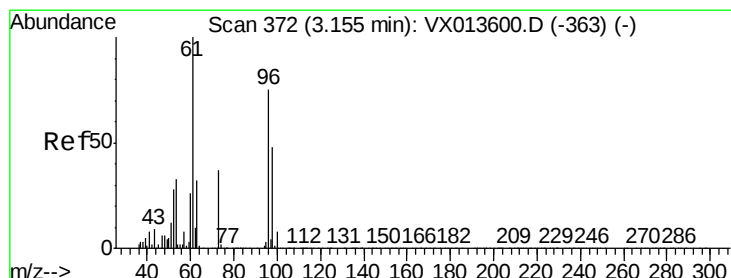
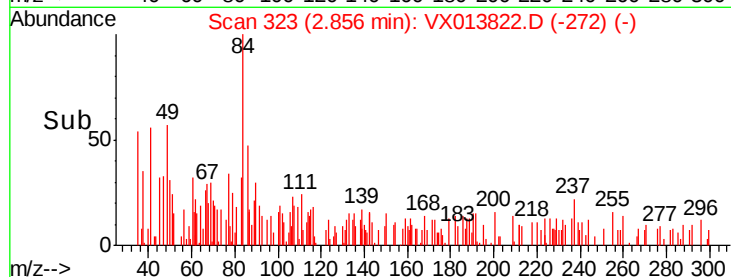
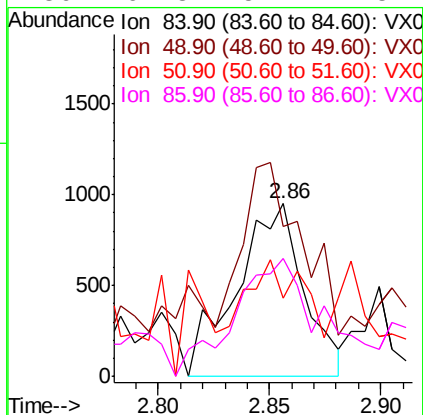
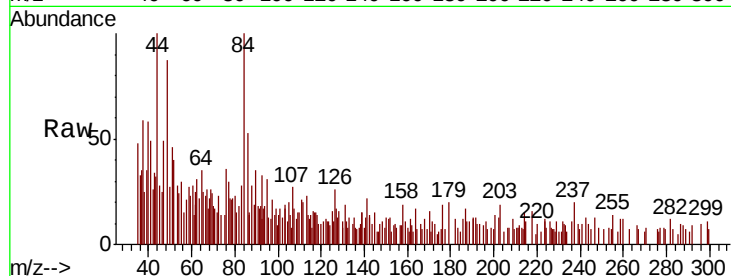




#20
Methvlene Chloride
Concen: 0.290 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

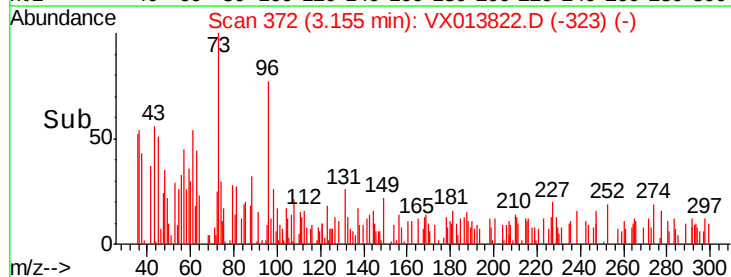
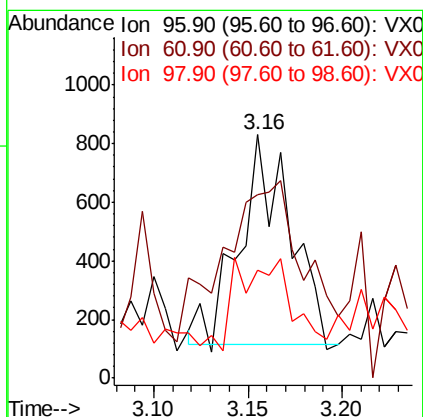
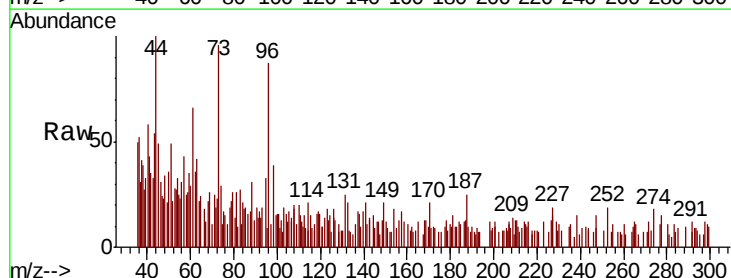
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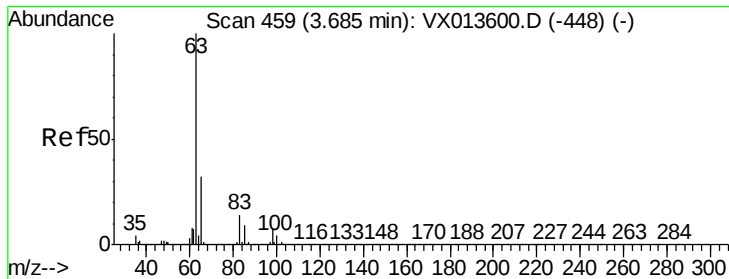
Tot Ion: 84 Resp: 2004
Ion Ratio Lower Upper
84 100
49 74.7 99.7 149.5#
51 0.3 29.9 44.9#
86 62.8 52.2 78.4



#21
trans-1,2-Dichloroethene
Concen: 0.205 ug/l
RT: 3.16 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

Tgt Ion: 96 Resp: 1336
Ion Ratio Lower Upper
96 100
61 57.7 107.2 160.8#
98 29.9 51.4 77.0#





#24

1,1-Dichloroethane

Concen: 0.544 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205

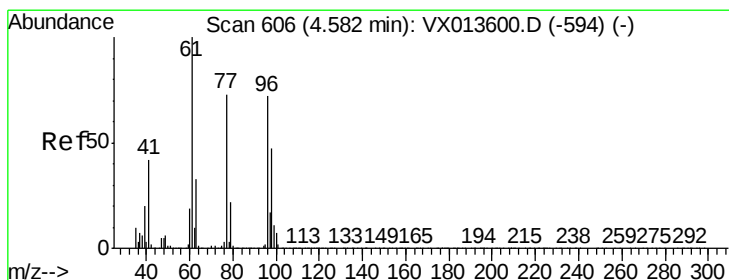
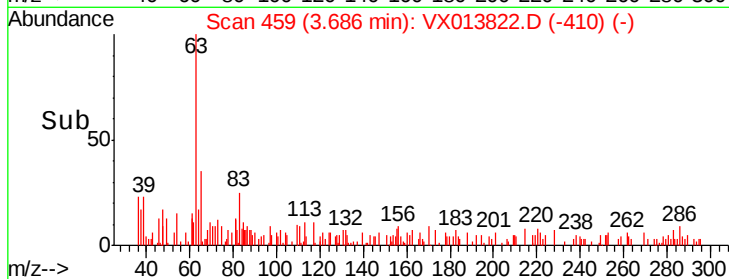
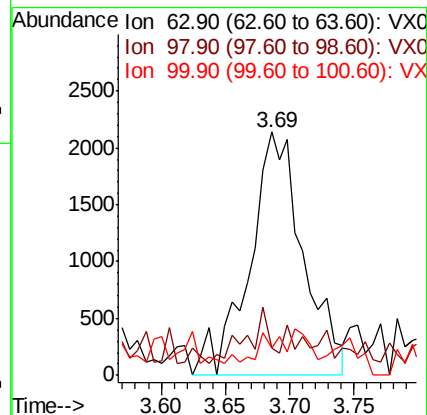
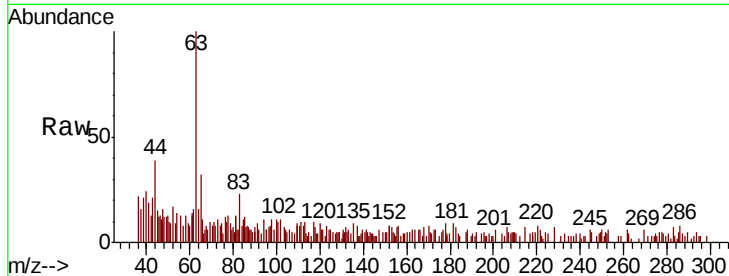
Tot Ion: 63 Resp: 6203

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.1 6.3#



#27

cis-1,2-Dichloroethene

Concen: 4.369 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

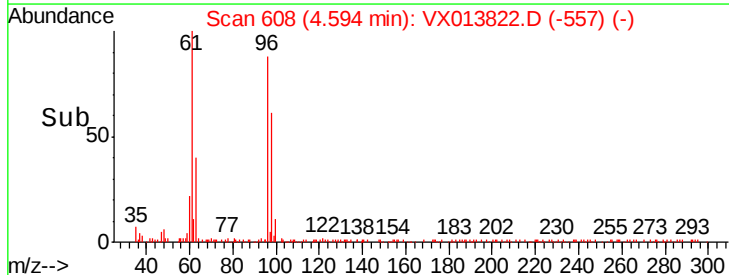
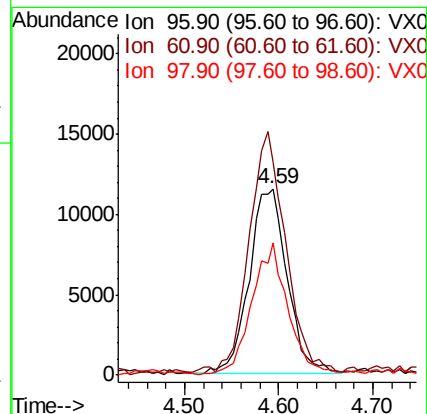
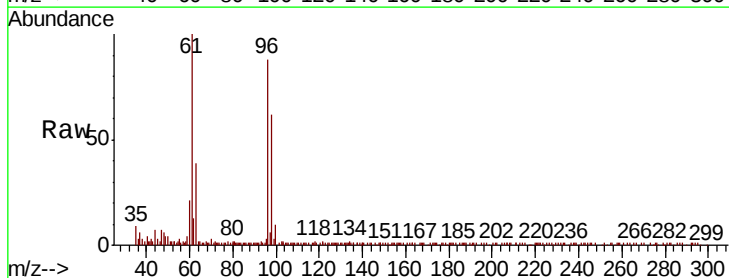
Tgt Ion: 96 Resp: 32652

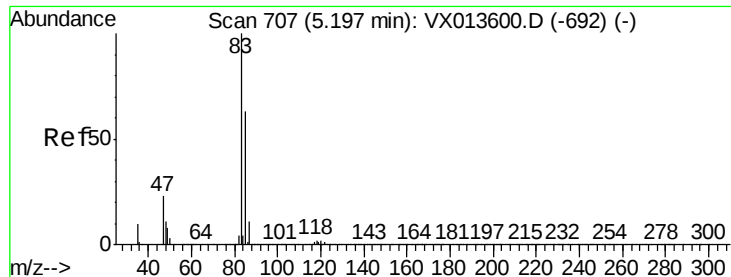
Ion Ratio Lower Upper

96 100

61 125.3 0.0 286.4

98 68.2 0.0 127.4

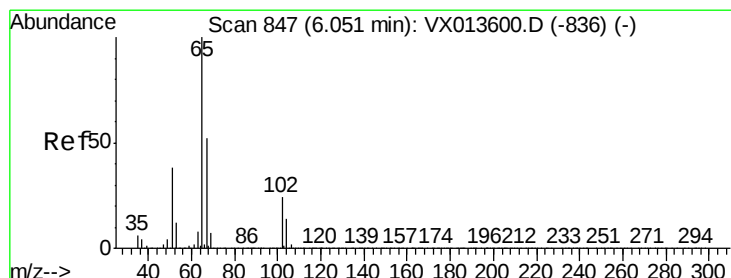
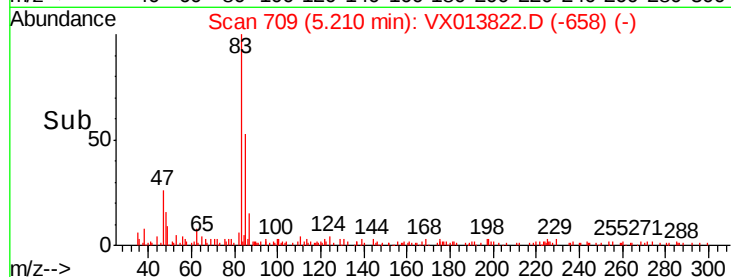
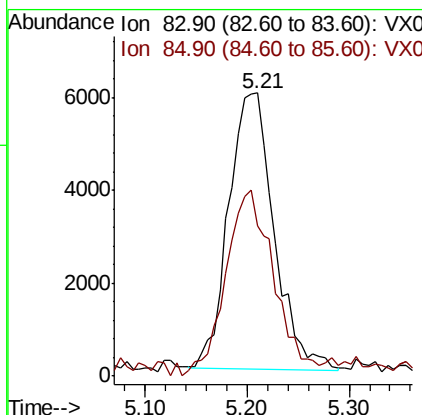
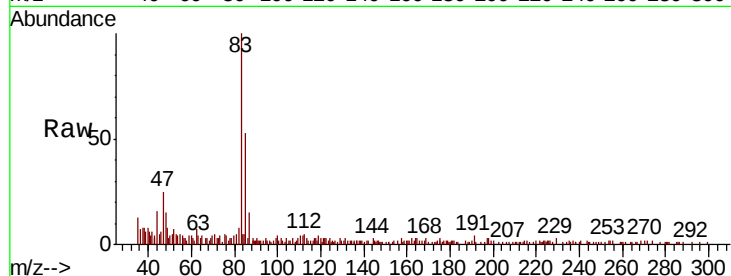




#30
Chloroform
Concen: 1.601 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

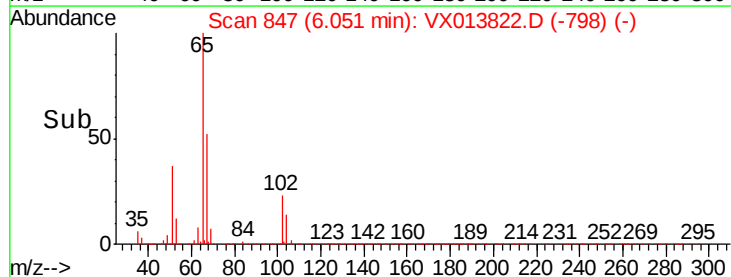
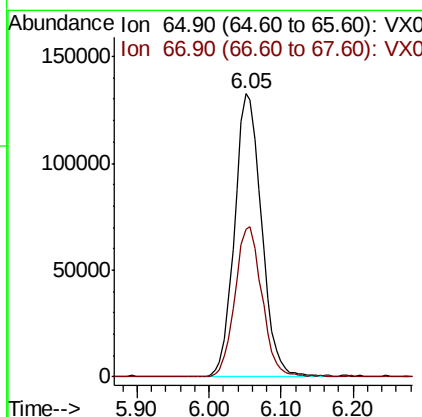
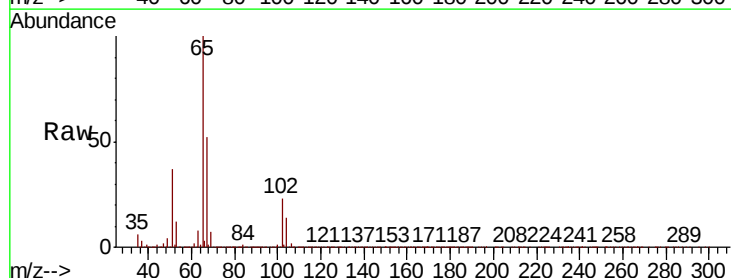
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205

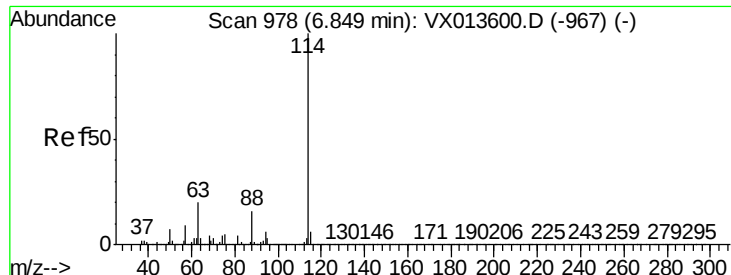
Tot Ion: 83 Resp: 18532
Ion Ratio Lower Upper
83 100
85 52.9 50.2 75.4



#33
1,2-Dichloroethane-d4
Concen: 47.373 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

Tgt Ion: 65 Resp: 345137
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205

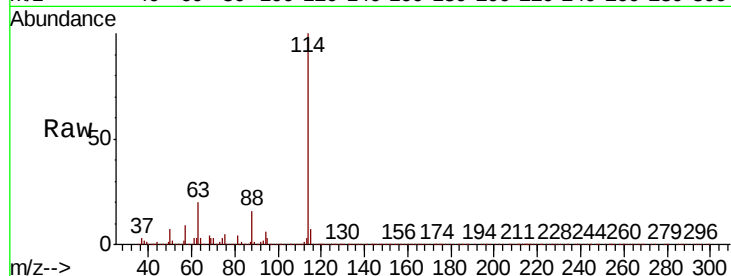
Tot Ion:114 Resp: 954031

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

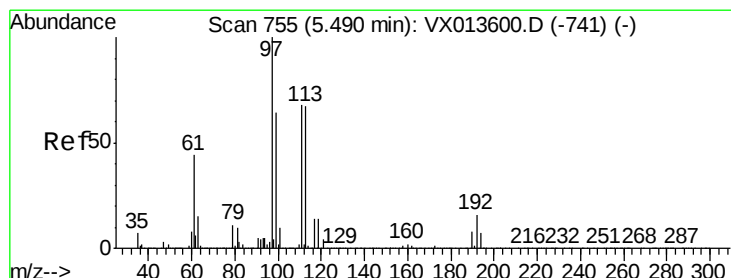
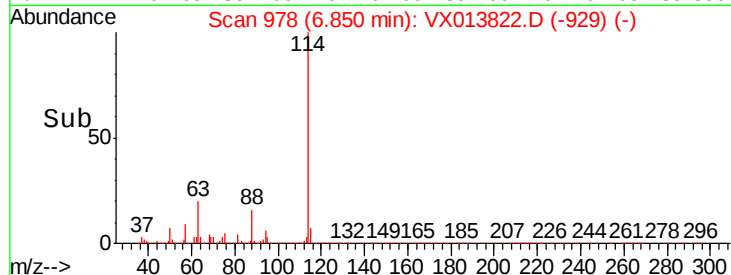
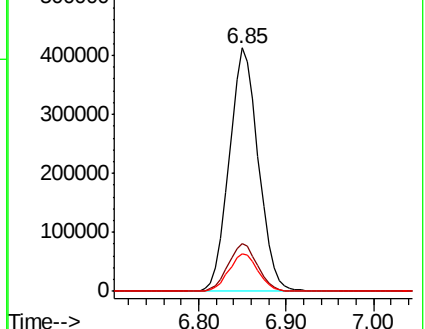
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.621 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

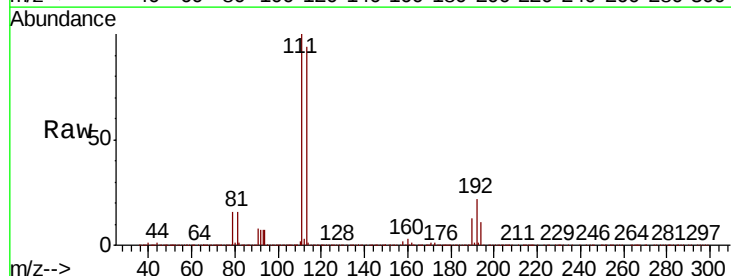
Tgt Ion:113 Resp: 286766

Ion Ratio Lower Upper

113 100

111 102.4 83.6 125.4

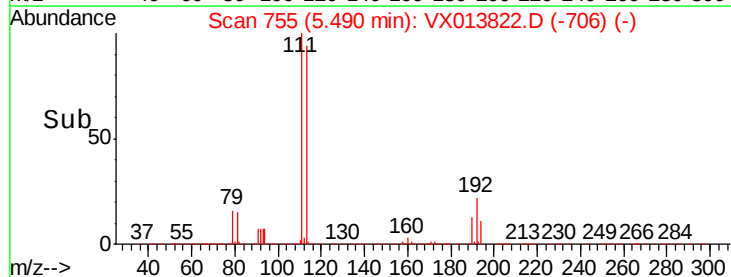
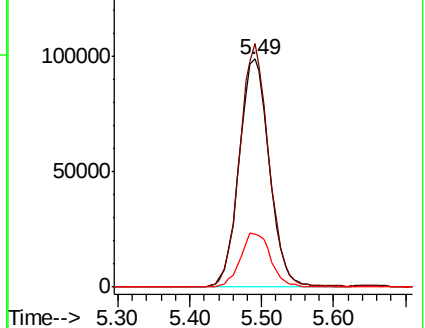
192 23.5 19.2 28.8

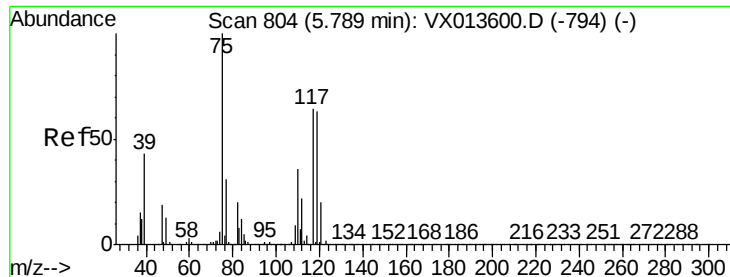


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20191205

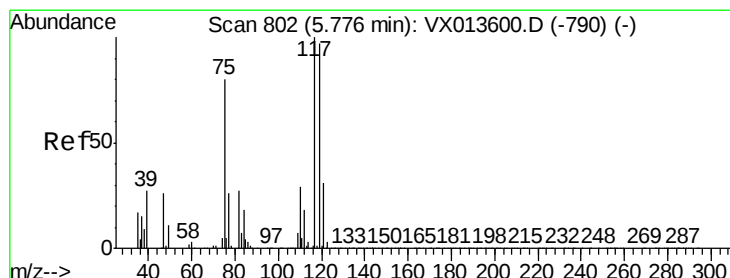
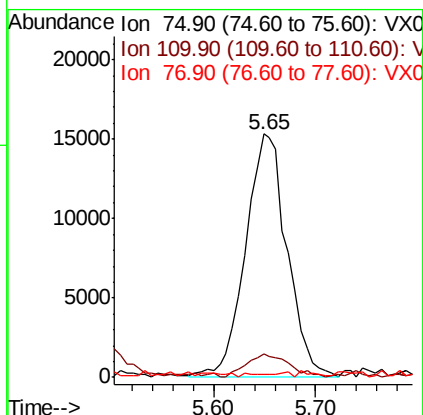
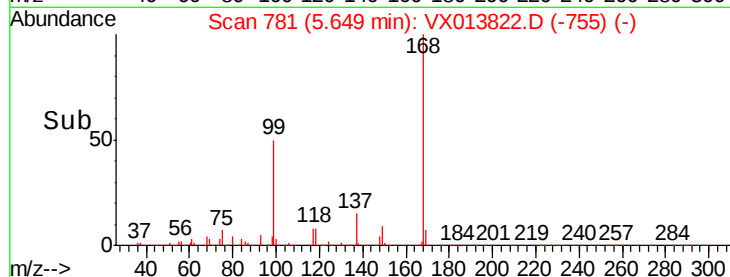
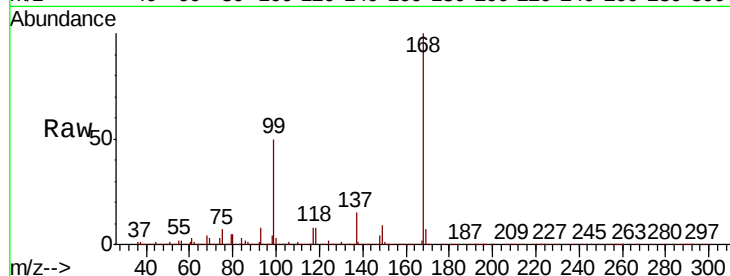
Tot Ion: 75 Resp: 43391

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

77 0.9 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.719 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

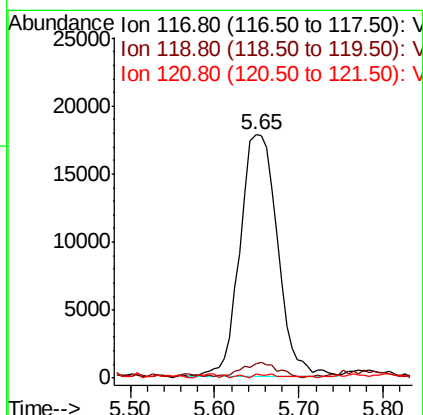
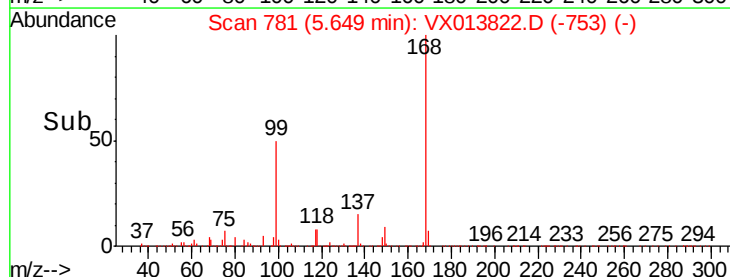
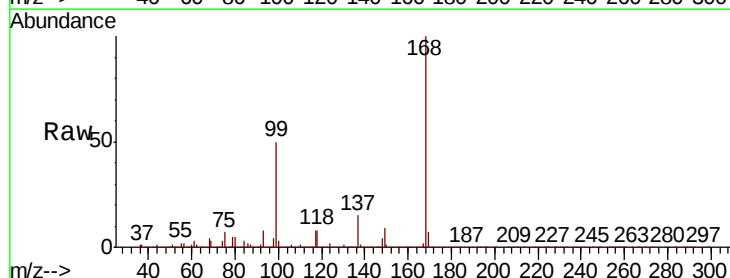
Tgt Ion: 117 Resp: 53655

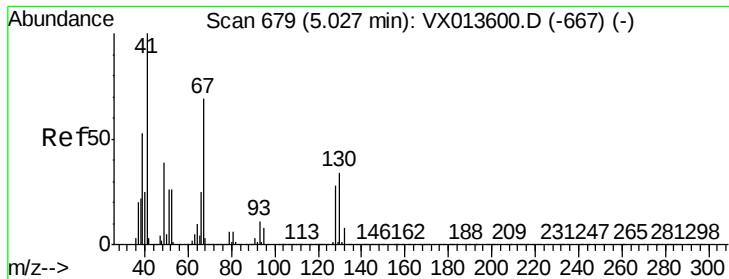
Ion Ratio Lower Upper

117 100

119 4.3 77.5 116.3#

121 1.5 25.0 37.6#





#41

Methacrylonitrile

Concen: 0.214 ug/l

RT: 5.01 min Scan# 677

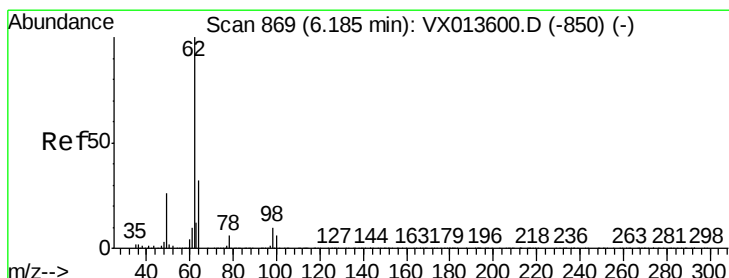
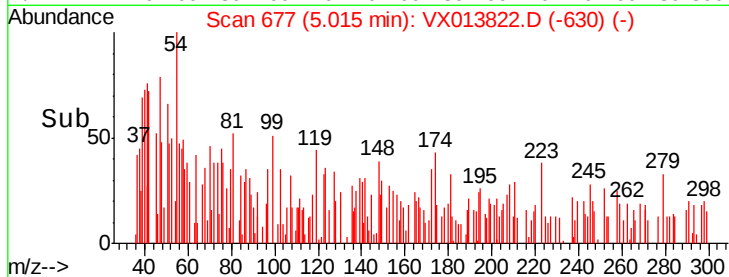
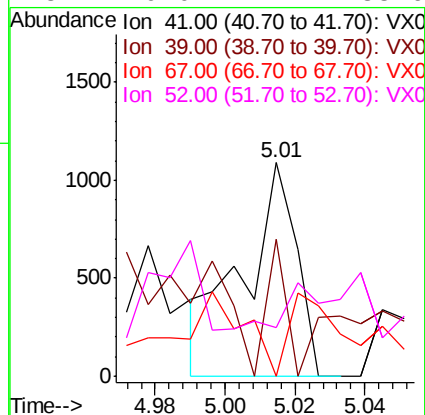
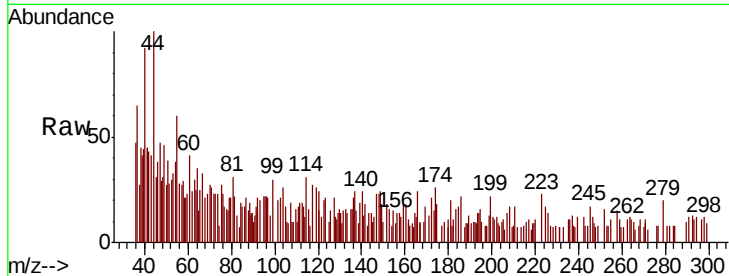
Delta R.T. -0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205

Tot Ion:	41	Resp:	1140
Ion	Ratio	Lower	Upper
41	100		
39	32.0	42.9	64.3#
67	37.1	57.4	86.0#
52	0.0	22.4	33.6#



#42

1,2-Dichloroethane

Concen: 0.293 ug/l

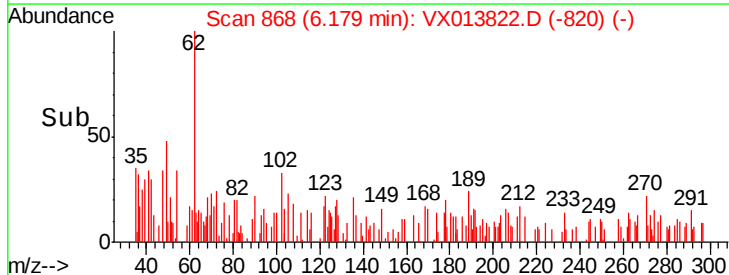
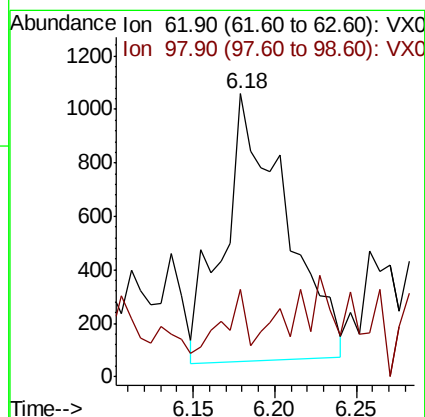
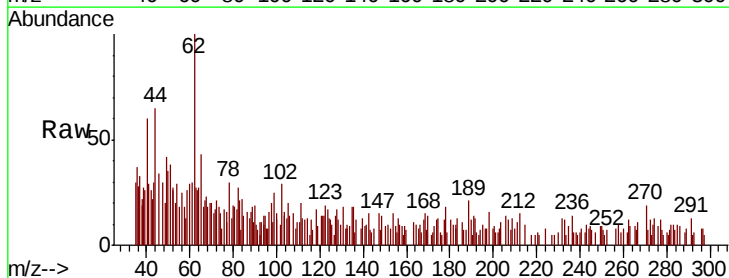
RT: 6.18 min Scan# 868

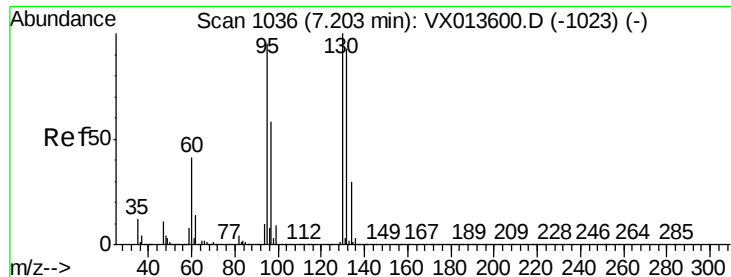
Delta R.T. -0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Tgt Ion:	62	Resp:	2638
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	20.8





#44

Trichloroethene

Concen: 188.776 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

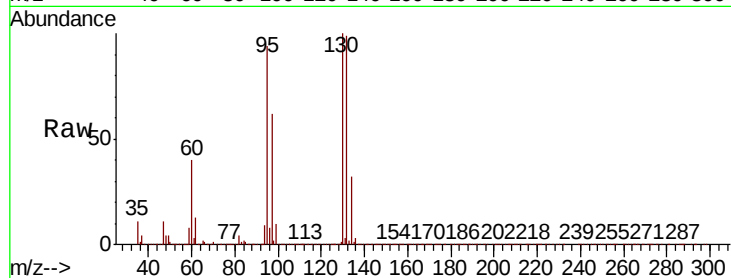
RE131D1-20191205

Tot Ion:130 Resp: 1366524

Ion Ratio Lower Upper

130 100

95 94.4 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

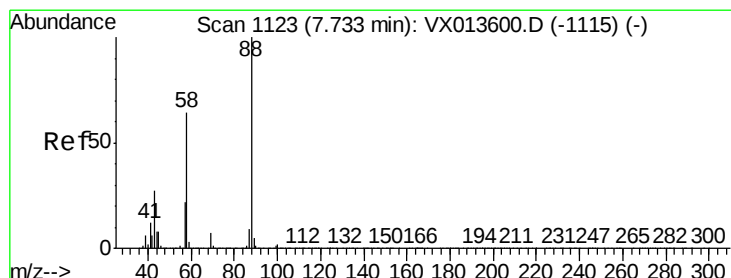
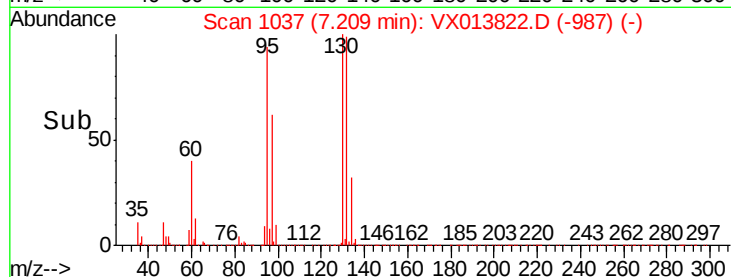
600000

400000

200000

0

Time-->



#49

1,4-Dioxane

Concen: 26.128 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

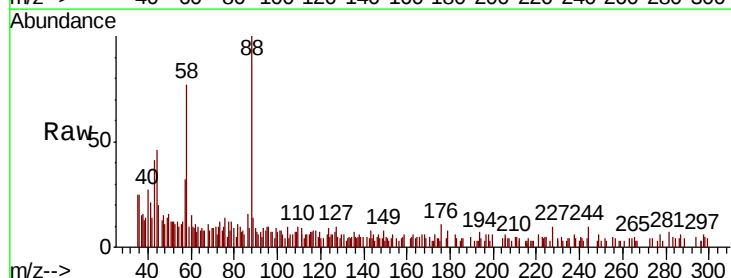
Tgt Ion: 88 Resp: 4545

Ion Ratio Lower Upper

88 100

43 34.3 25.8 38.6

58 83.7 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

7.75

2500

2000

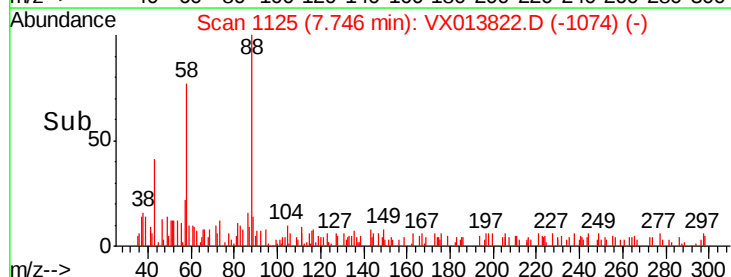
1500

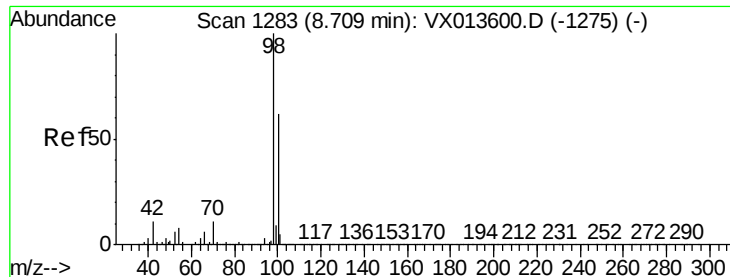
1000

500

0

Time-->





#50

Toluene-d8

Concen: 48.817 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

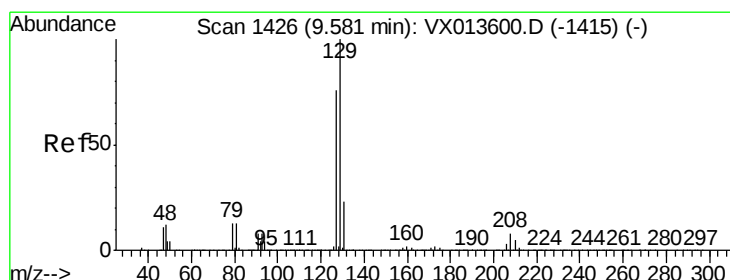
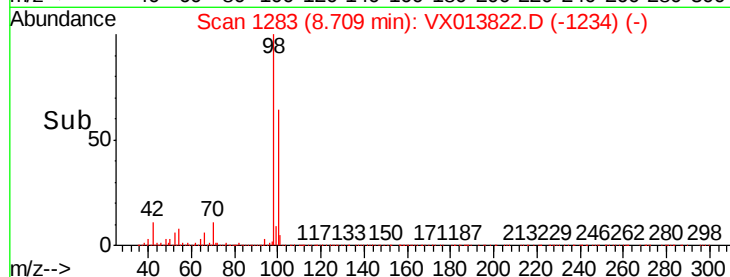
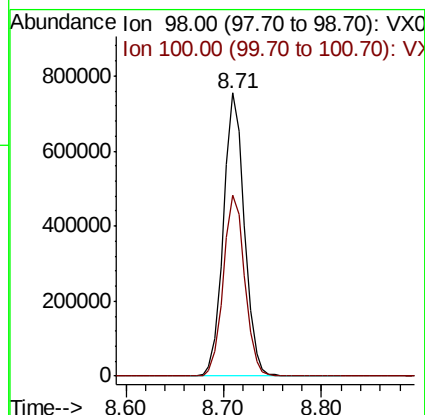
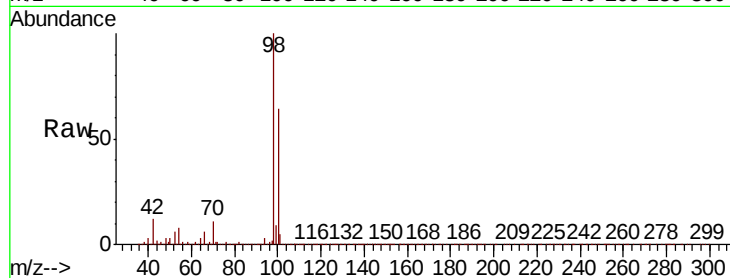
RE131D1-20191205

Tot Ion: 98 Resp: 1121764

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7



#60

Dibromochloromethane

Concen: 11.499 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013822.D

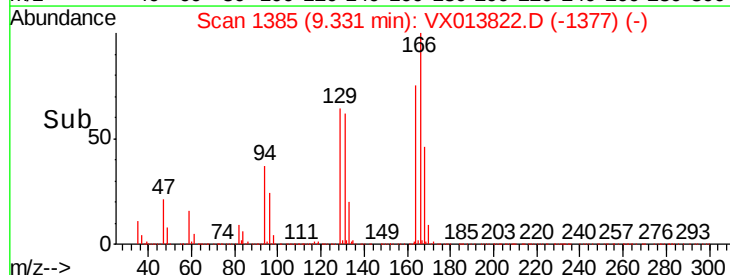
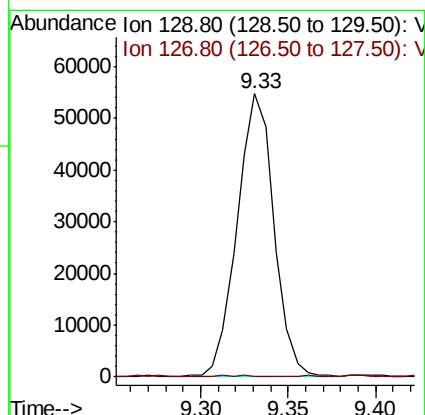
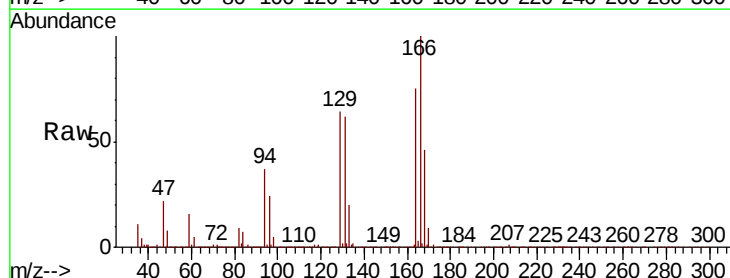
Acq: 07 Dec 2019 00:47

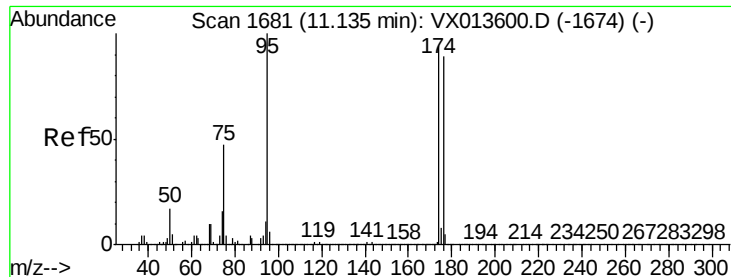
Tgt Ion: 129 Resp: 78803

Ion Ratio Lower Upper

129 100

127 0.3 38.5 115.5#

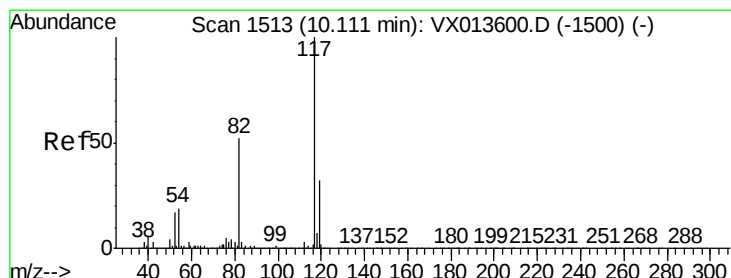
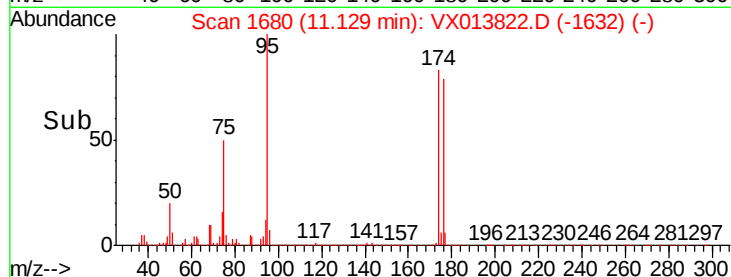
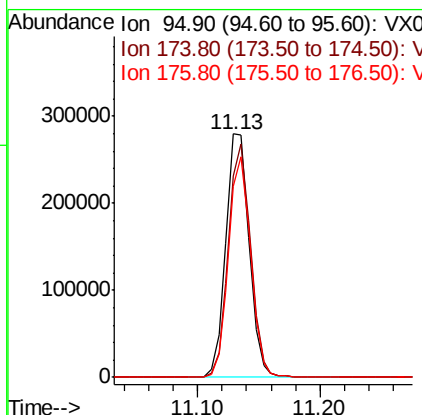
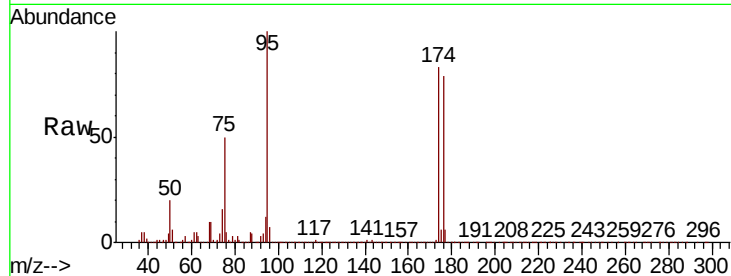




#62
4-Bromofluorobenzene
Concen: 44.641 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

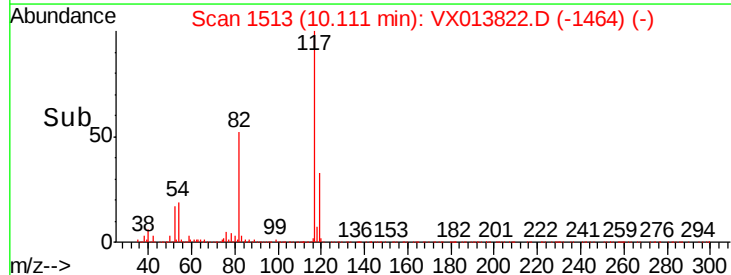
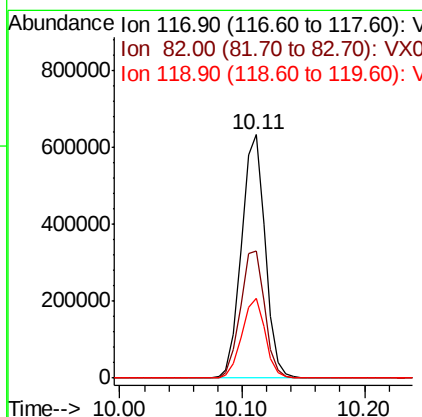
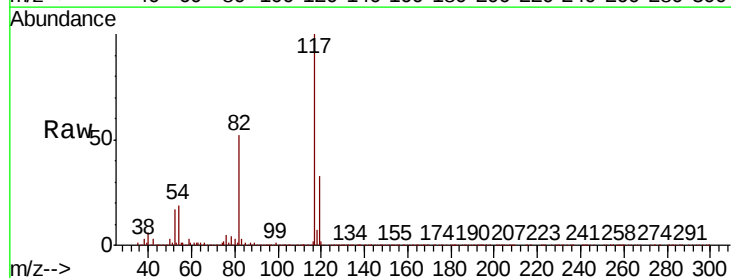
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205

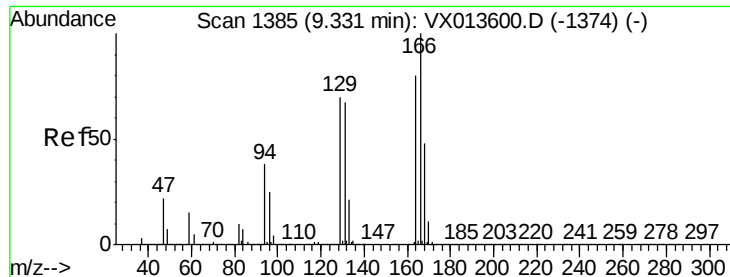
Tot Ion: 95 Resp: 369911
Ion Ratio Lower Upper
95 100
174 91.1 0.0 180.0
176 86.0 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013822.D
Acq: 07 Dec 2019 00:47

Tgt Ion: 117 Resp: 846429
Ion Ratio Lower Upper
117 100
82 52.1 41.8 62.8
119 32.6 25.8 38.8





#64

Tetrachloroethene

Concen: 14.623 ug/l

RT: 9.33 min Scan# 1385

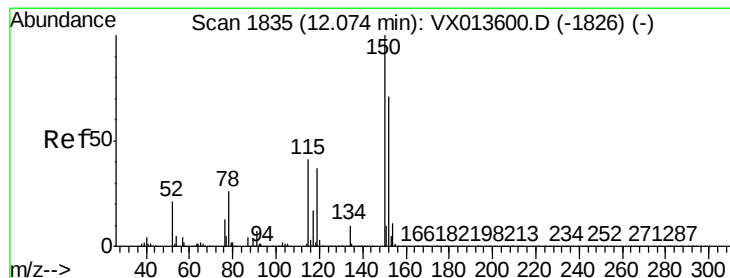
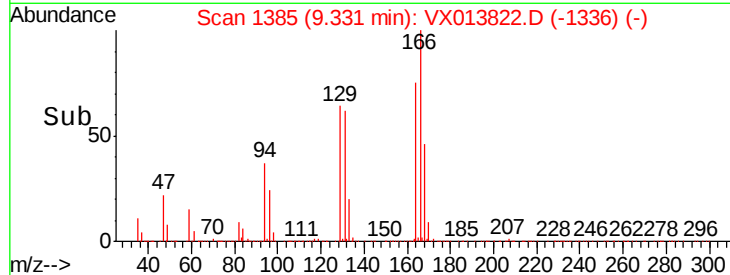
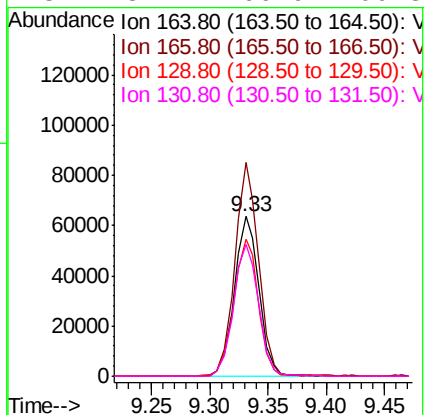
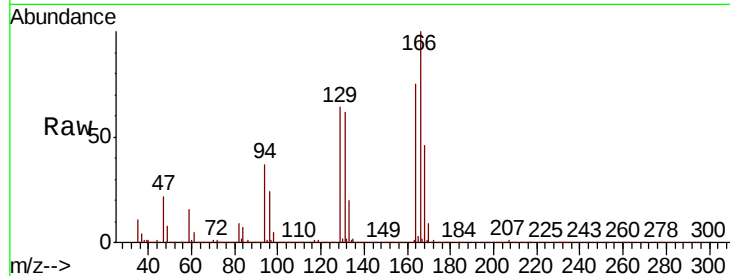
Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20191205

Tot Ion:164	Resp:	92305
Ion	Ratio	Lower Upper
164	100	
166	133.9	99.7 149.5
129	86.1	70.1 105.1
131	82.4	66.9 100.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

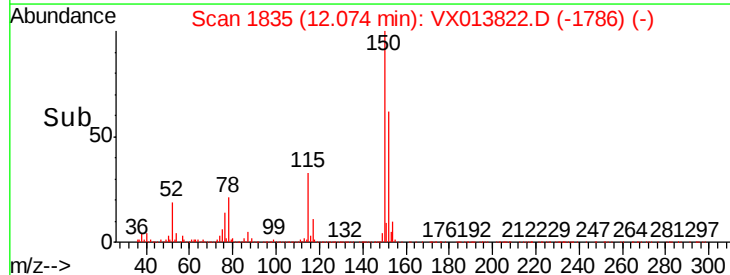
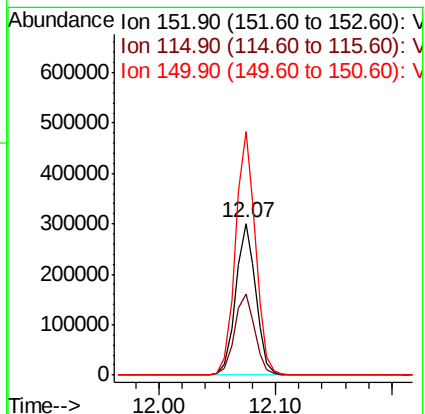
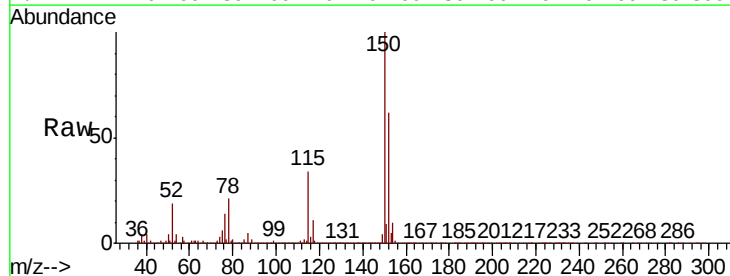
RT: 12.07 min Scan# 1835

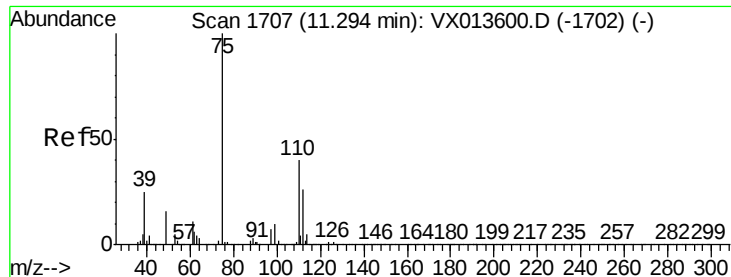
Delta R.T. 0.00 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Tgt Ion:152	Resp:	360834
Ion	Ratio	Lower Upper
152	100	
115	54.9	38.4 115.1
150	159.8	0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 22.312 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Instrument :

MSVOA_X

ClientSampleId :

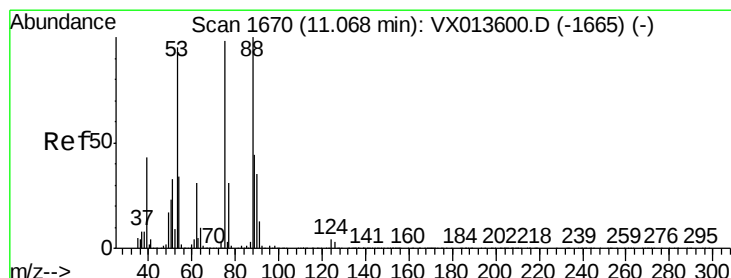
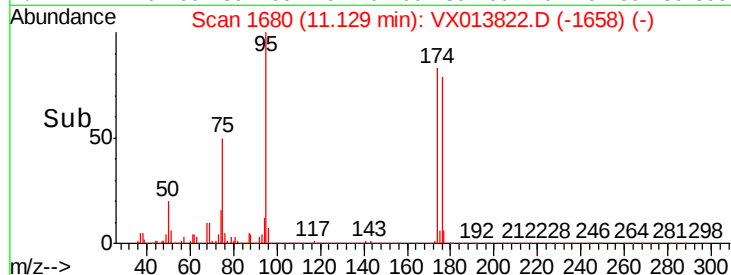
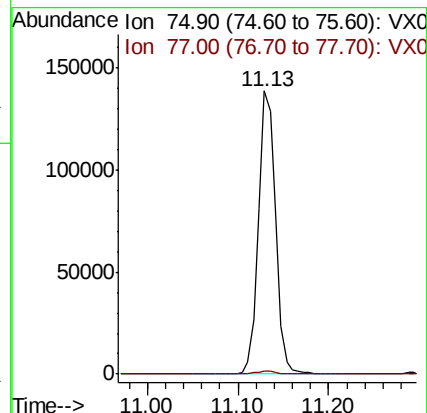
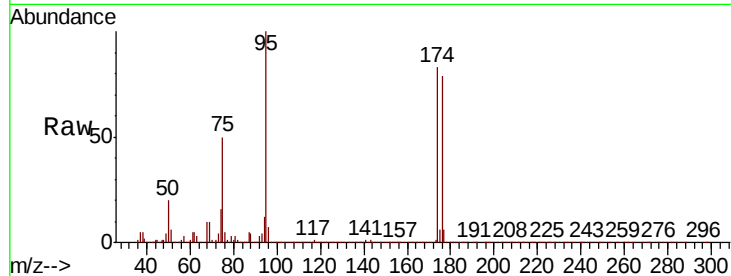
RE131D1-20191205

Tot Ion: 75 Resp: 181079

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.041 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013822.D

Acq: 07 Dec 2019 00:47

Tgt Ion: 75 Resp: 181079

Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.2#

89 0.2 35.4 53.2#

