

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014040.D
 Acq On : 16 Dec 2019 17:10
 Operator : JC/SP
 Sample : K6251-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20191206

Quant Time: Dec 17 03:30:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	565898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	876614	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	786068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	328433	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	317225	49.46	ug/l	0.00
Spiked Amount						
			Recovery	=	98.92%	
35) Dibromofluoromethane	5.49	113	260624	48.91	ug/l	0.00
Spiked Amount						
			Recovery	=	97.82%	
50) Toluene-d8	8.71	98	1042960	50.27	ug/l	0.00
Spiked Amount						
			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.14	95	342968	45.22	ug/l	0.00
Spiked Amount						
			Recovery	=	90.44%	

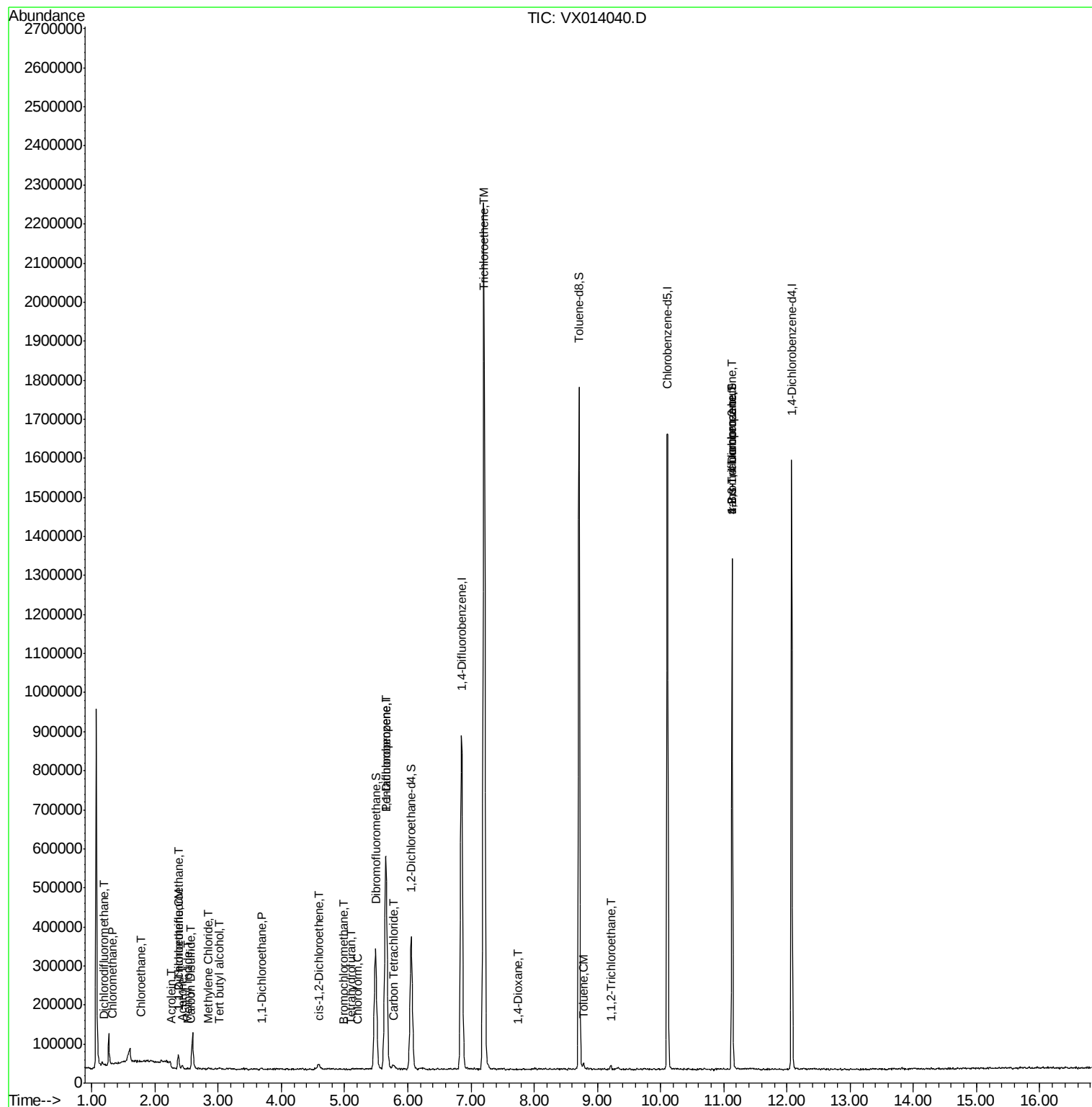
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1131	0.223	ug/l #	42
3) Chloromethane	1.32	50	1378	0.203	ug/l #	68
6) Chloroethane	1.78	64	1444	0.326	ug/l #	51
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7785	1.455	ug/l	94
10) Methyl Iodide	2.51	142	237	2.653	ug/l #	1
11) Tert butyl alcohol	3.01	59	1999	1.442	ug/l #	80
12) 1,1-Dichloroethene	2.37	96	8454	1.553	ug/l	94
13) Acrolein	2.27	56	484	0.610	ug/l #	14
16) Acetone	2.44	43	10677	2.564	ug/l	96
17) Carbon Disulfide	2.56	76	890	0.808	ug/l #	91
20) Methylene Chloride	2.85	84	1465	0.223	ug/l #	67
24) 1,1-Dichloroethane	3.69	63	3829	0.355	ug/l #	81
27) cis-1,2-Dichloroethene	4.58	96	9375	1.382	ug/l	98
28) Bromochloromethane	5.00	49	550	0.585	ug/l #	48
29) Tetrahydrofuran	5.11	42	790	0.275	ug/l #	86
30) Chloroform	5.21	83	4456	0.436	ug/l	100
36) 1,1-Dichloropropene	5.65	75	41145	5.115	ug/l #	49
38) Carbon Tetrachloride	5.78	117	10104	1.379	ug/l #	94
44) Trichloroethene	7.21	130	877567	128.378	ug/l	100
49) 1,4-Dioxane	7.75	88	714	4.874	ug/l #	68
52) Toluene	8.78	92	6255	0.400	ug/l	95
55) 1,1,2-Trichloroethane	9.21	97	3752	0.598	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	168347	23.610	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	168347	66.641	ug/l #	12

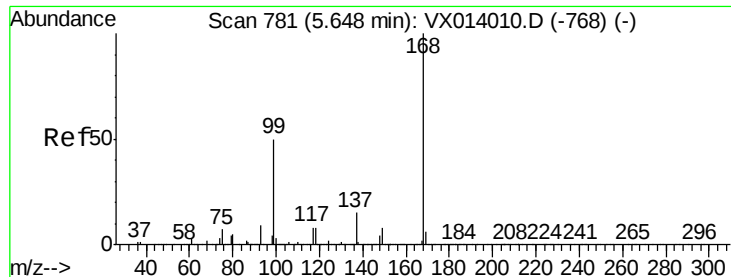
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

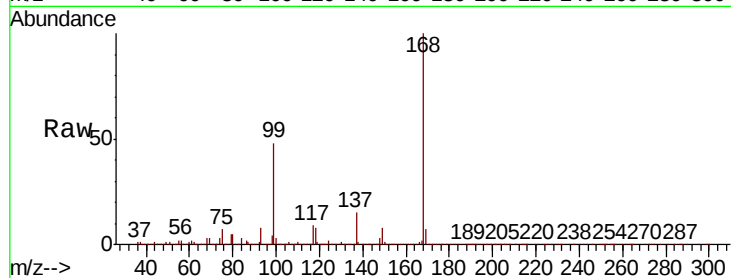
RE139D2-20191206

Tot Ion:168 Resp: 565898

Ion Ratio Lower Upper

168 100

99 48.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

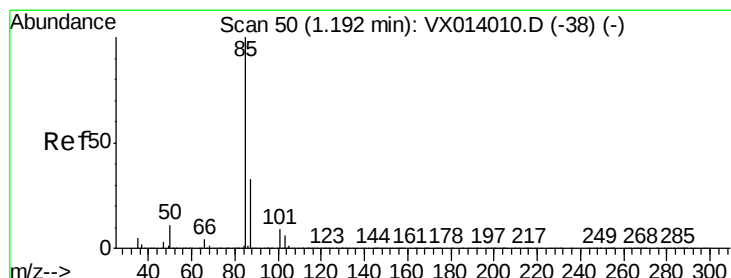
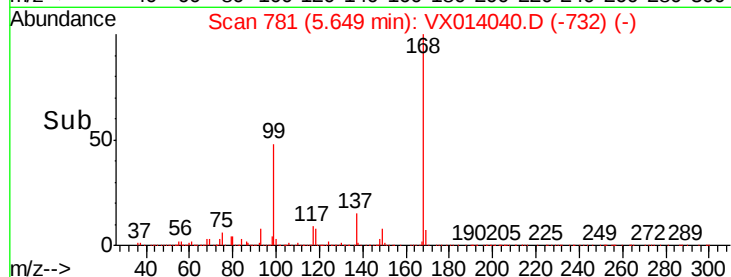
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.223 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014040.D

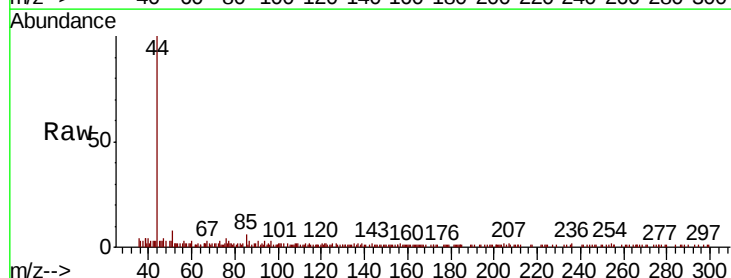
Acq: 16 Dec 2019 17:10

Tgt Ion: 85 Resp: 1131

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

600

500

400

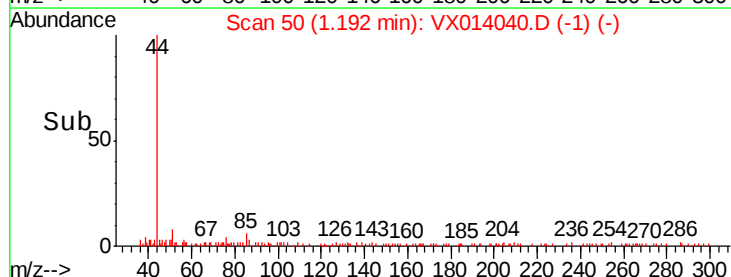
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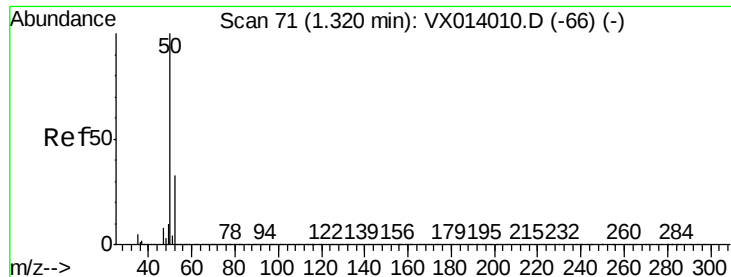
200

100

0

Time-->





#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

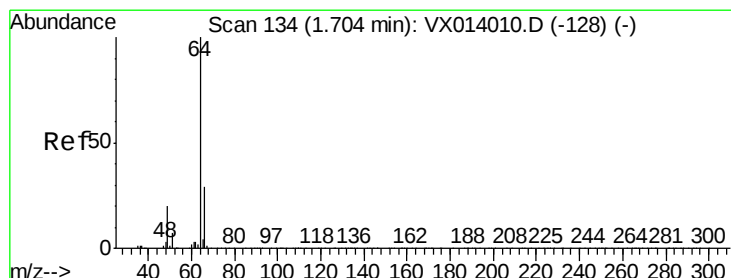
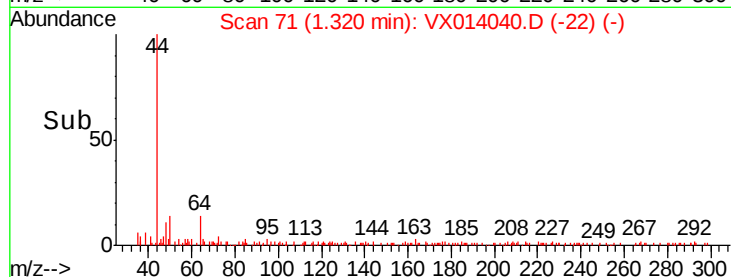
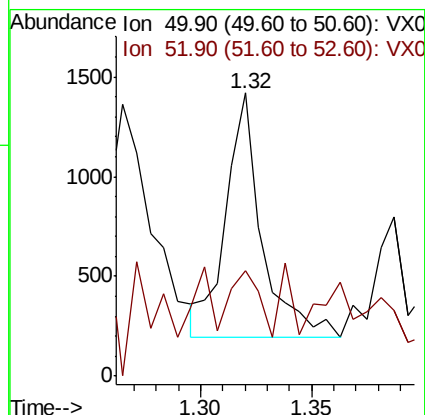
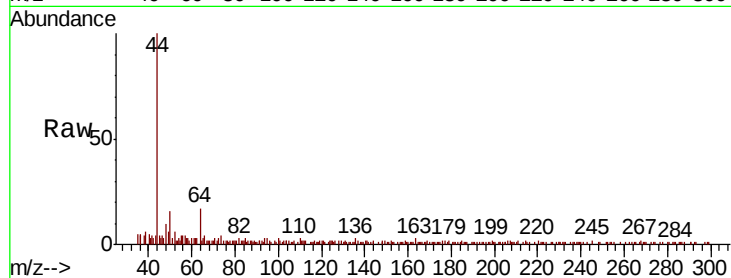
RE139D2-20191206

Tot Ion: 50 Resp: 1378

Ion Ratio Lower Upper

50 100

52 15.0 26.2 39.4#



#6

Chloroethane

Concen: 0.326 ug/l

RT: 1.78 min Scan# 146

Delta R.T. 0.07 min

Lab File: VX014040.D

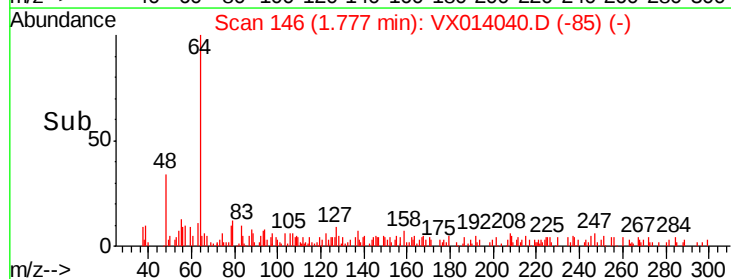
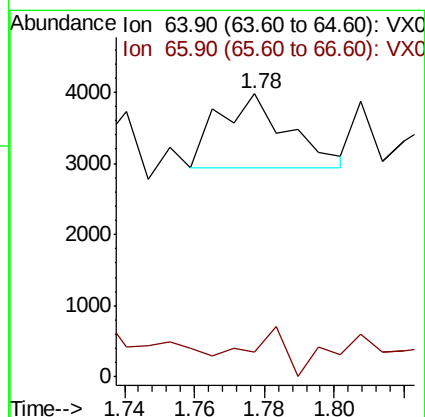
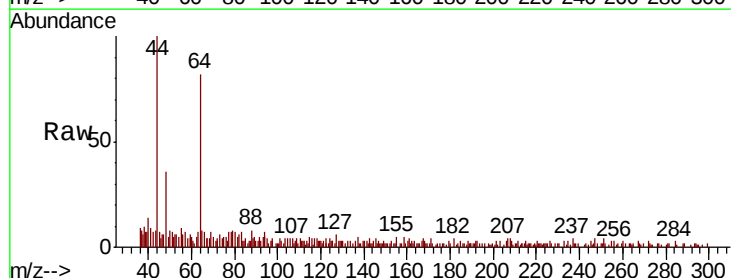
Acq: 16 Dec 2019 17:10

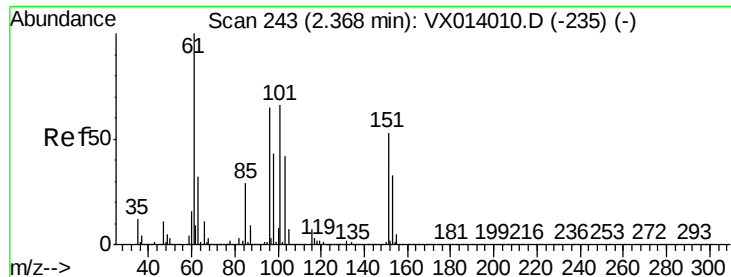
Tgt Ion: 64 Resp: 1444

Ion Ratio Lower Upper

64 100

66 3.3 23.4 35.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.455 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20191206

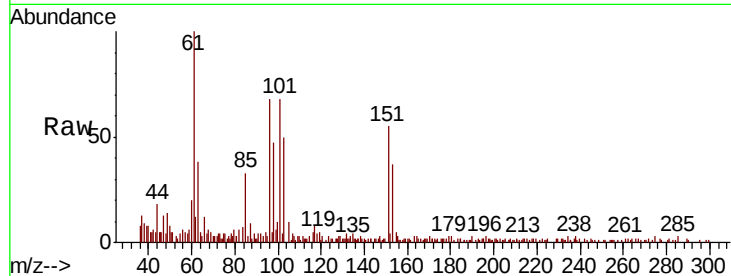
Tot Ion:101 Resp: 7785

Ion Ratio Lower Upper

101 100

85 39.1 33.7 50.5

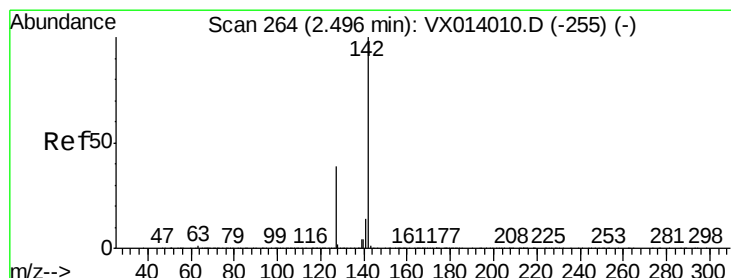
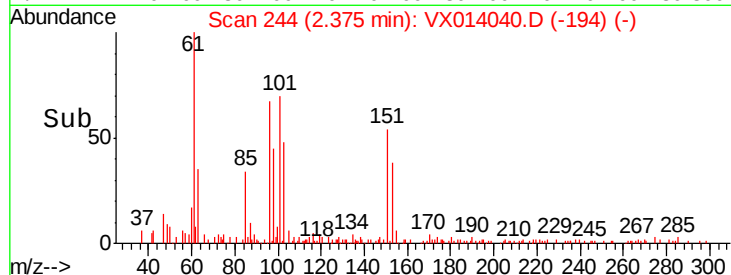
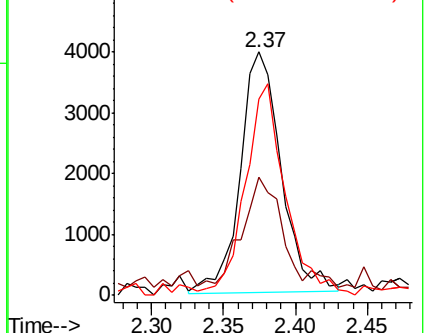
151 86.1 64.5 96.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.653 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

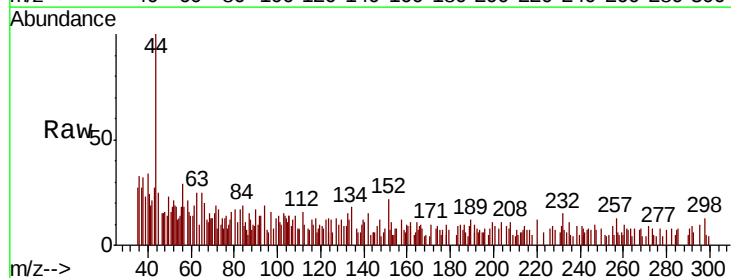
Tgt Ion:142 Resp: 237

Ion Ratio Lower Upper

142 100

127 98.3 31.6 47.4#

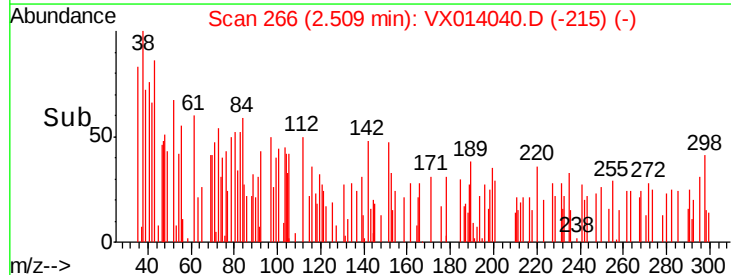
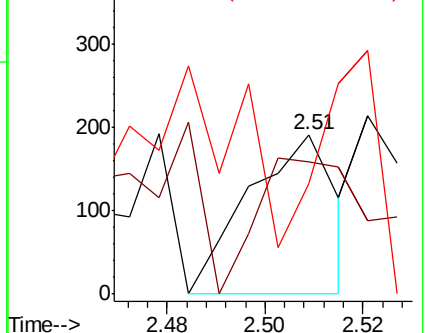
141 104.2 11.6 17.4#

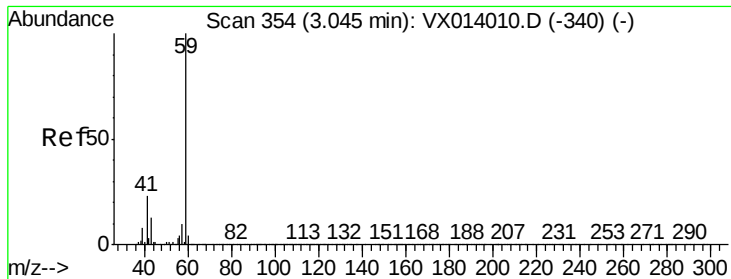


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

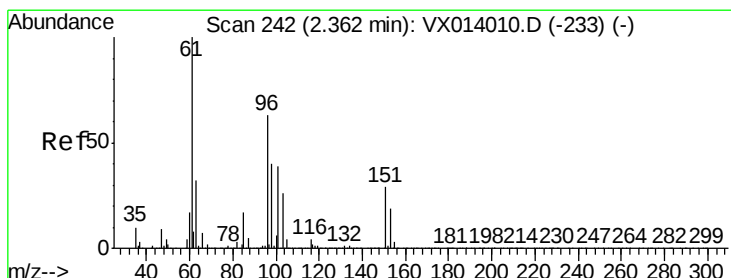
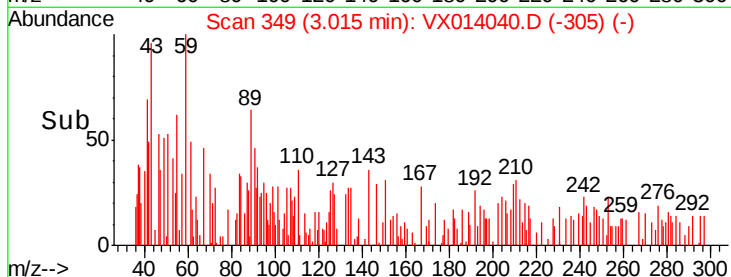
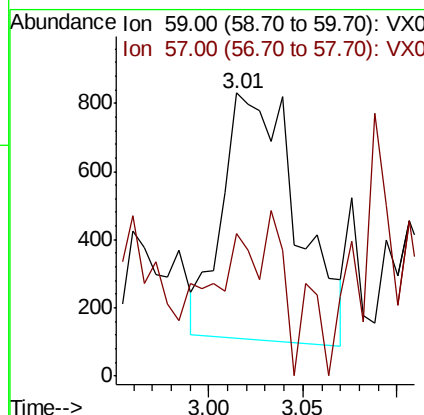
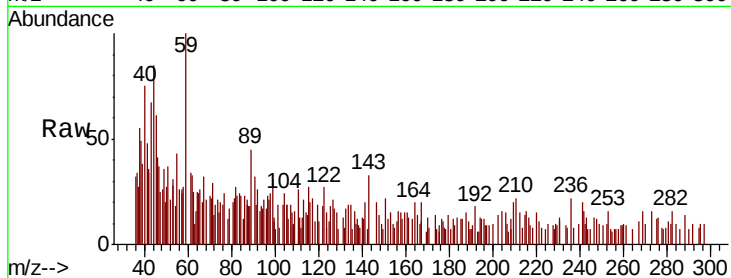




#11
Tert butyl alcohol
Concen: 1.442 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

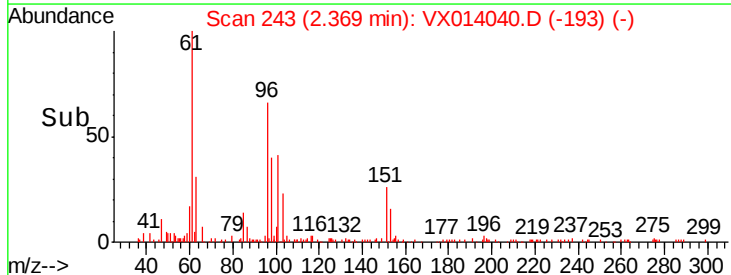
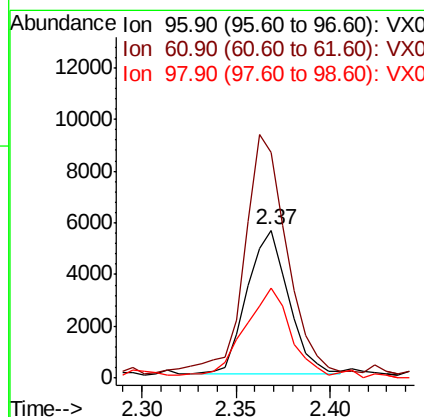
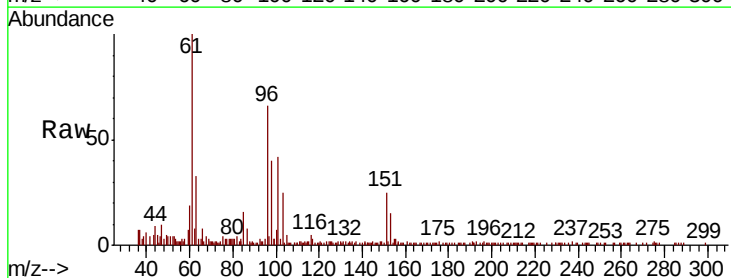
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20191206

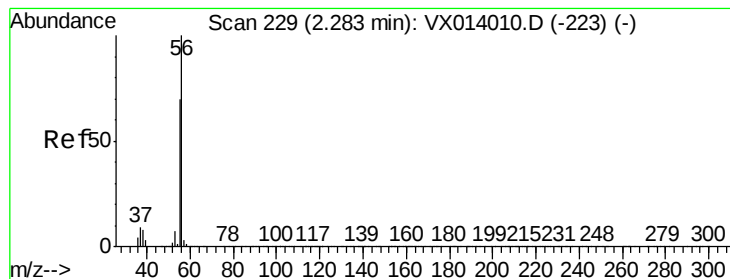
Tot Ion: 59 Resp: 1999
Ion Ratio Lower Upper
59 100
57 18.1 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 1.553 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

Tgt Ion: 96 Resp: 8454
Ion Ratio Lower Upper
96 100
61 152.0 127.9 191.9
98 59.5 50.5 75.7





#13

Acrolein

Concen: 0.610 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

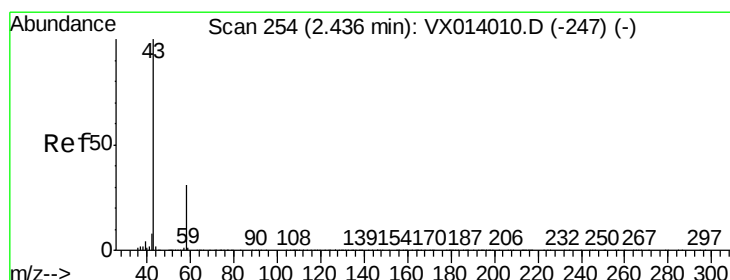
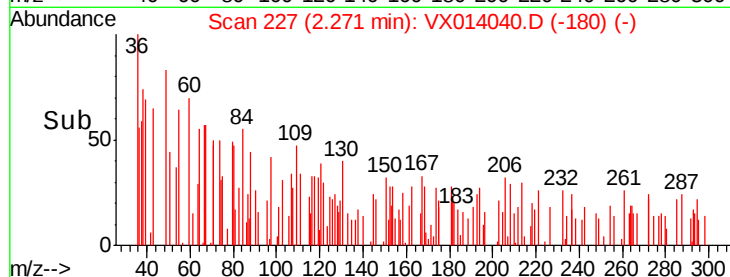
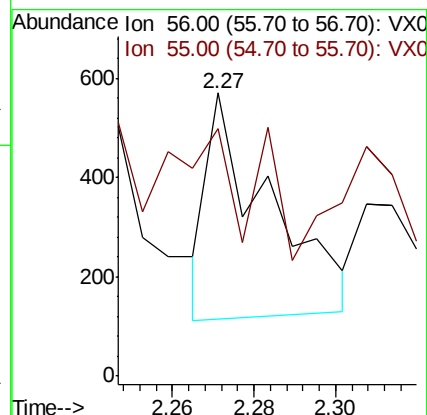
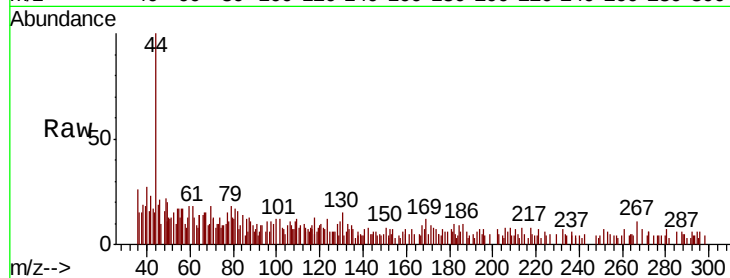
RE139D2-20191206

Tot Ion: 56 Resp: 484

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 2.564 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014040.D

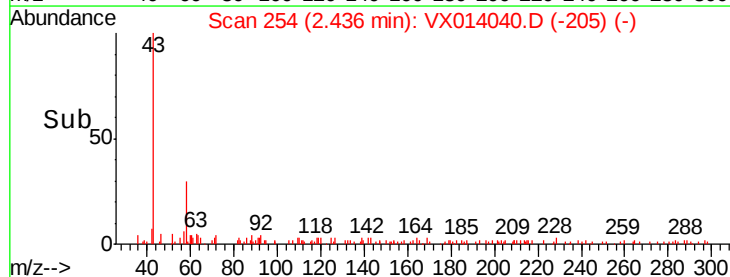
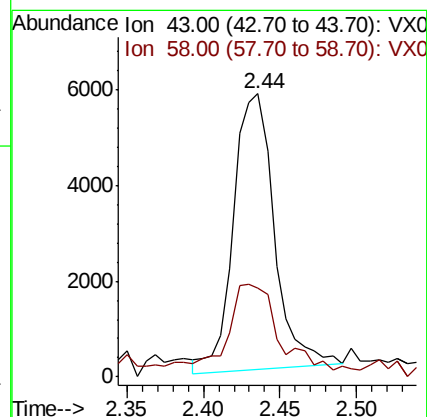
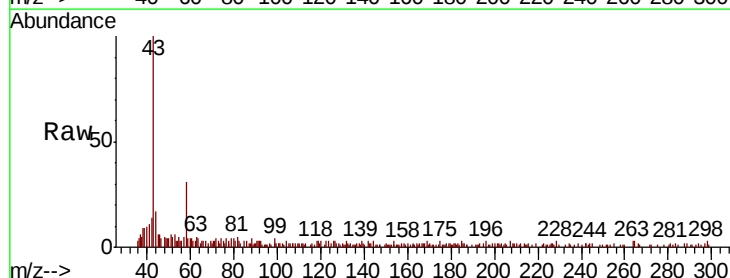
Acq: 16 Dec 2019 17:10

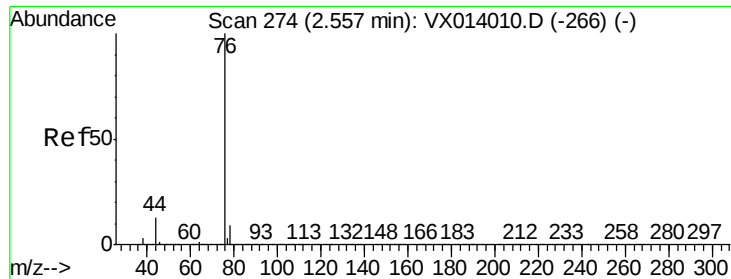
Tgt Ion: 43 Resp: 10677

Ion Ratio Lower Upper

43 100

58 28.9 24.9 37.3

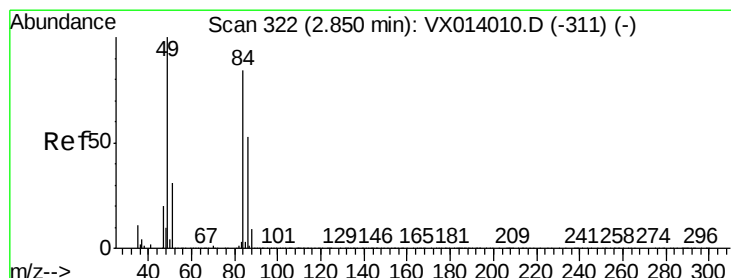
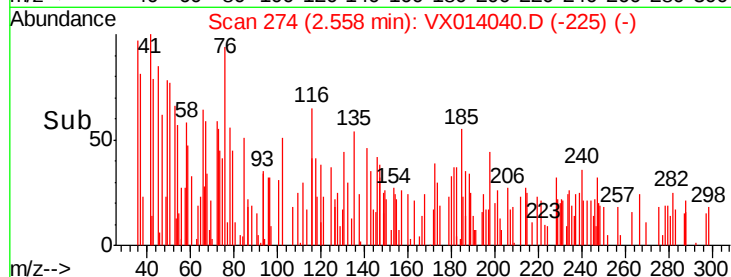
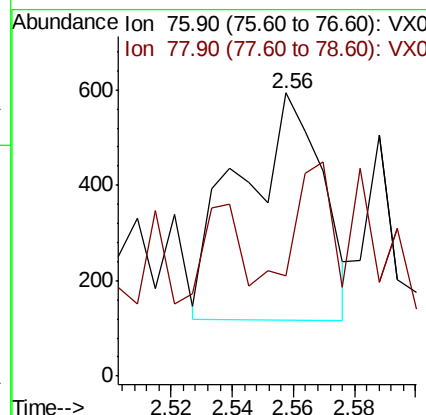
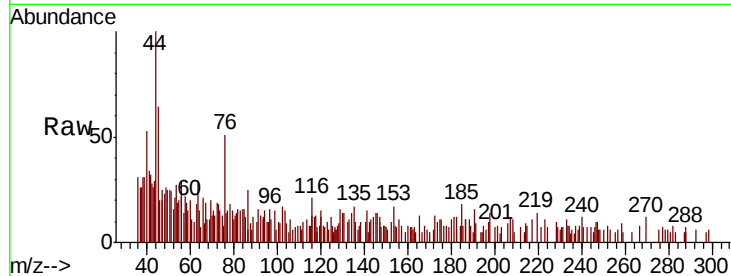




#17
Carbon Disulfide
Concen: 0.808 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

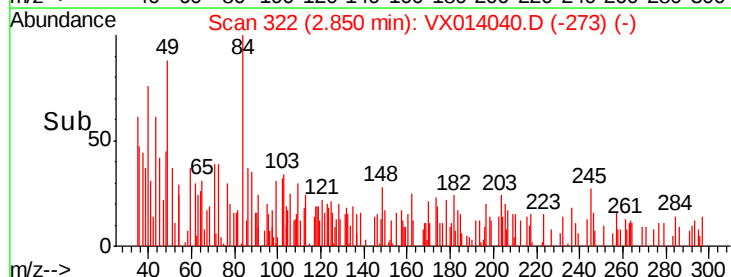
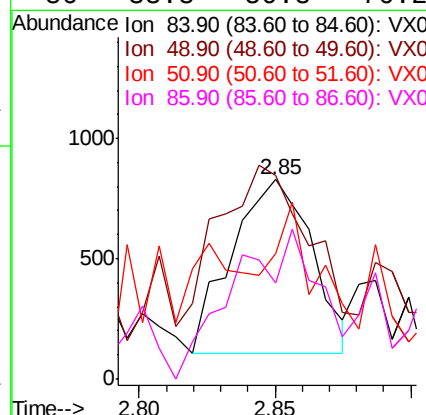
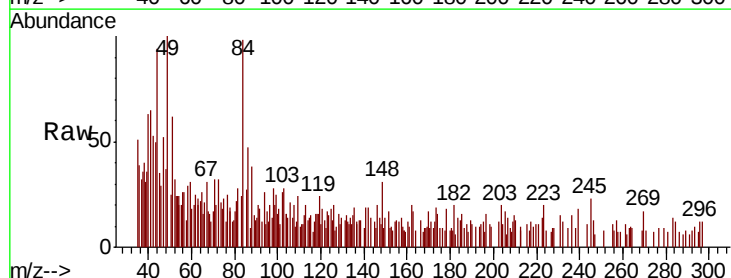
Instrument :
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RE139D2-20191206

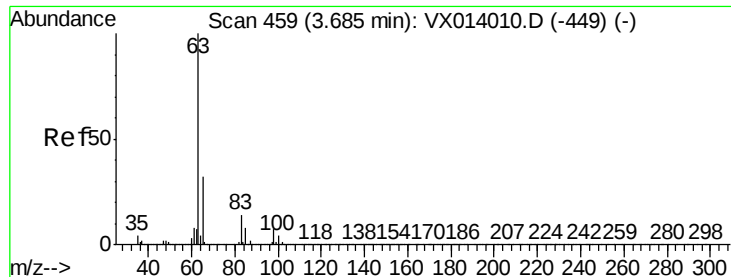
Tot Ion: 76 Resp: 890
Ion Ratio Lower Upper
76 100
78 5.9 7.2 10.8#



#20
Methylene Chloride
Concen: 0.223 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

Tgt Ion: 84 Resp: 1465
Ion Ratio Lower Upper
84 100
49 79.2 95.8 143.6#
51 28.8 29.8 44.8#
86 33.8 50.8 76.2#





#24

1,1-Dichloroethane

Concen: 0.355 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20191206

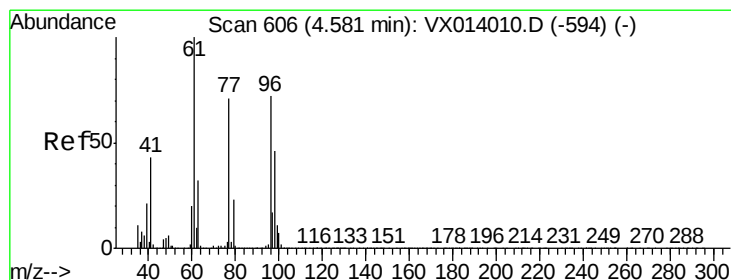
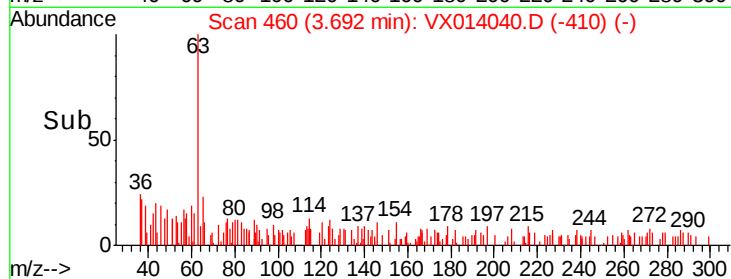
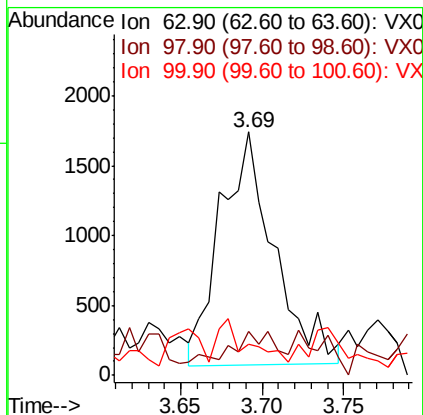
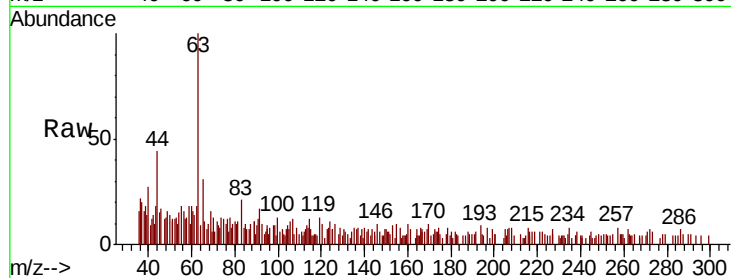
Tot Ion: 63 Resp: 3829

Ion Ratio Lower Upper

63 100

98 14.8 3.6 10.8#

100 0.0 2.3 6.8#



#27

cis-1,2-Dichloroethene

Concen: 1.382 ug/l

RT: 4.58 min Scan# 606

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

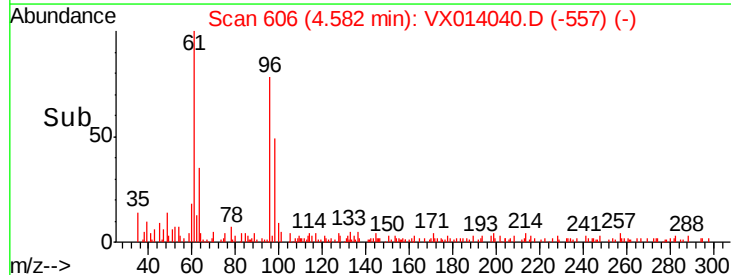
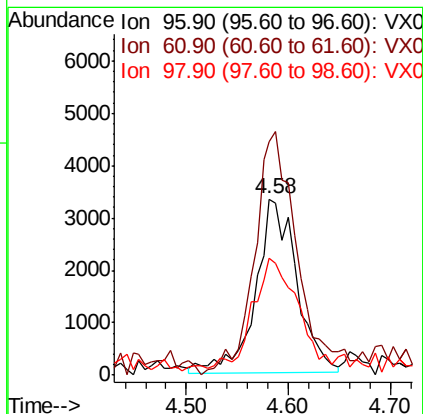
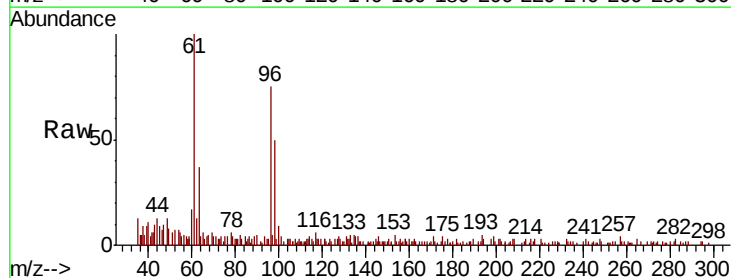
Tgt Ion: 96 Resp: 9375

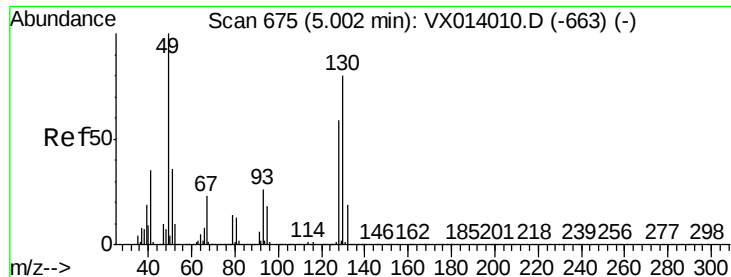
Ion Ratio Lower Upper

96 100

61 146.9 0.0 288.4

98 66.6 0.0 129.6





#28

Bromochloromethane

Concen: 0.585 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20191206

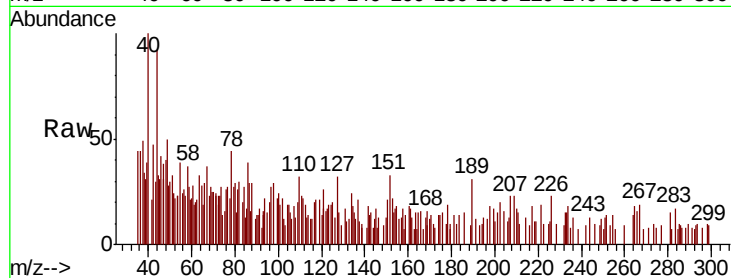
Tot Ion: 49 Resp: 550

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

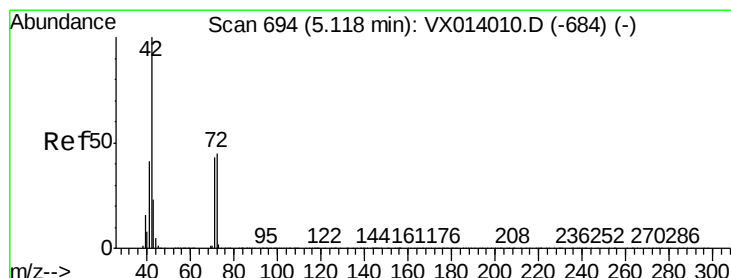
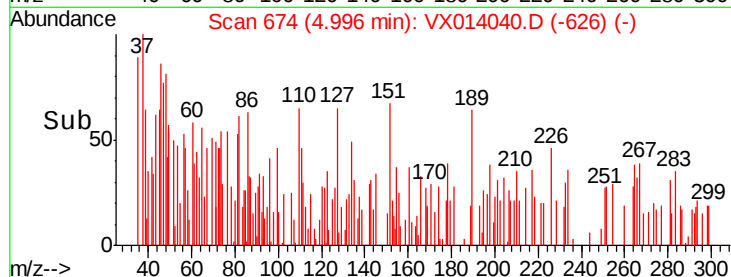
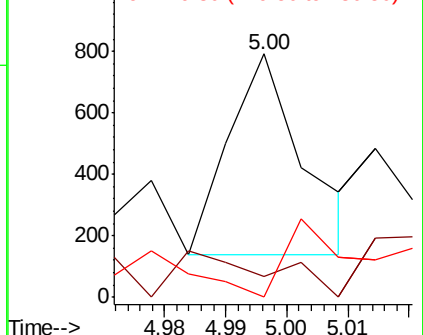
130 33.6 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 5.11 min Scan# 692

Delta R.T. -0.01 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

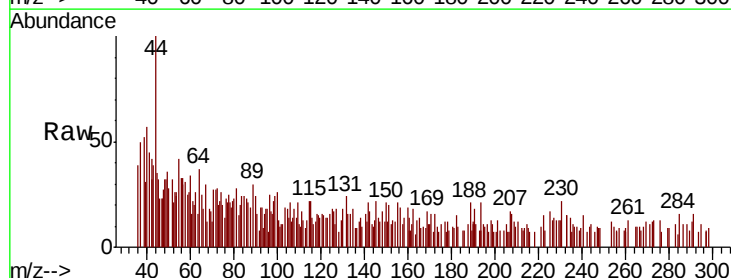
Tgt Ion: 42 Resp: 790

Ion Ratio Lower Upper

42 100

72 54.2 35.8 53.8#

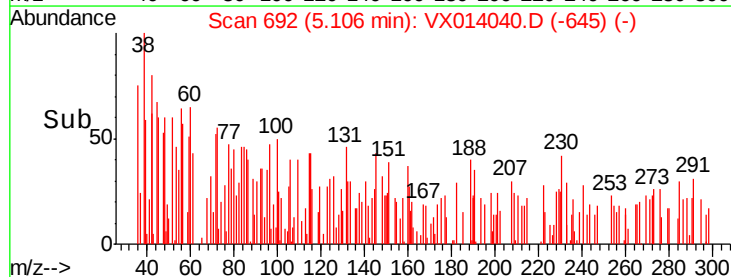
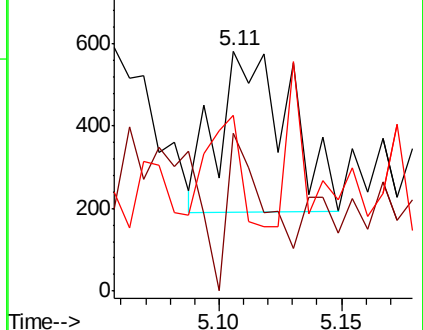
71 33.8 33.6 50.4

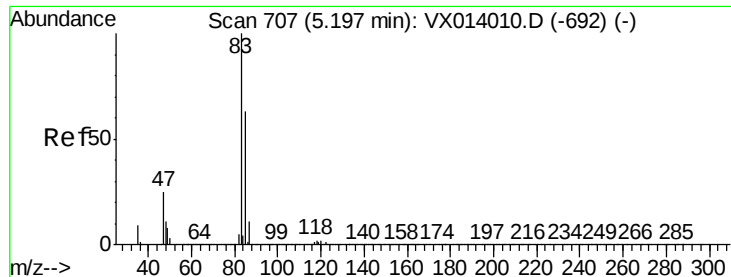


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

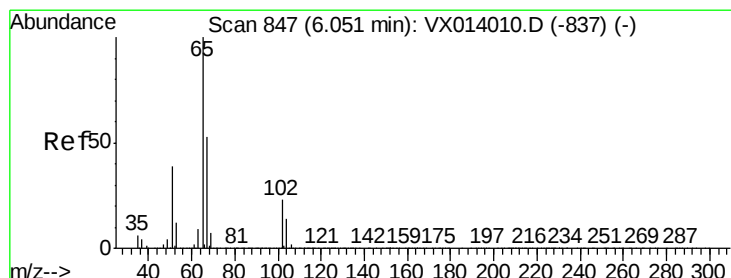
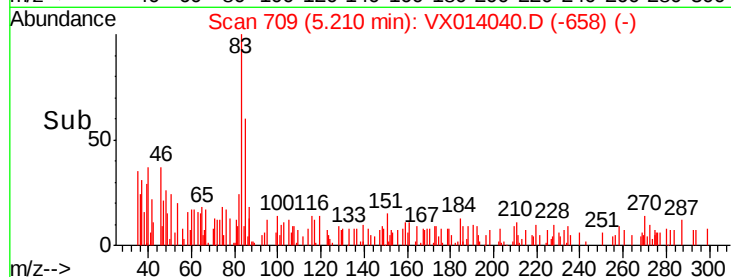
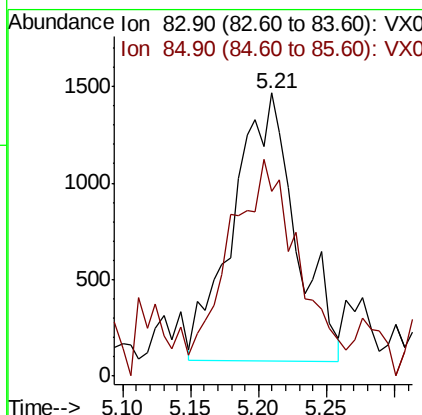
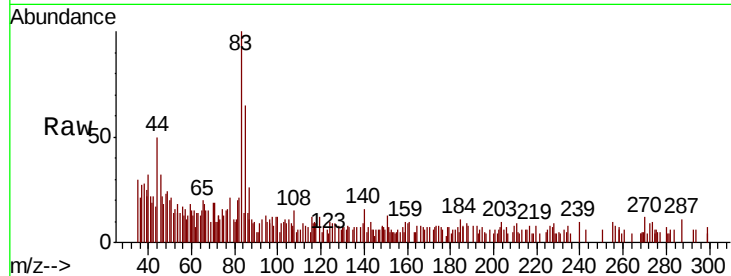




#30
Chloroform
Concen: 0.436 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

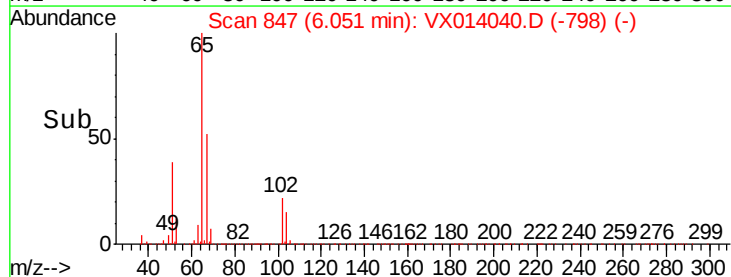
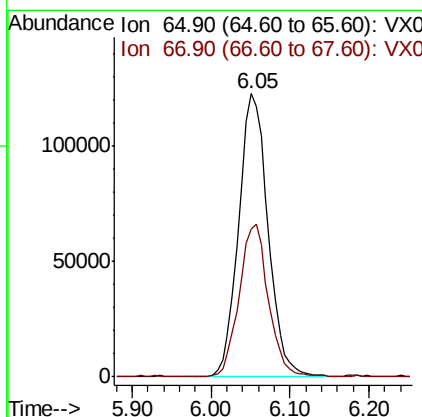
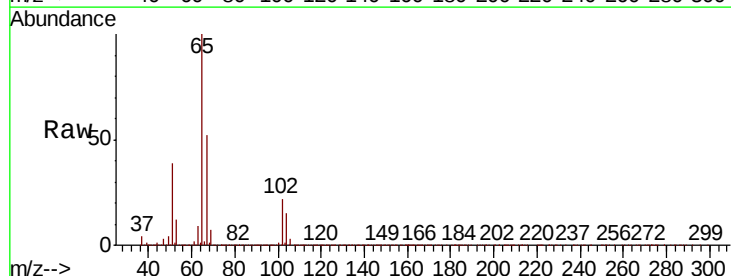
Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20191206

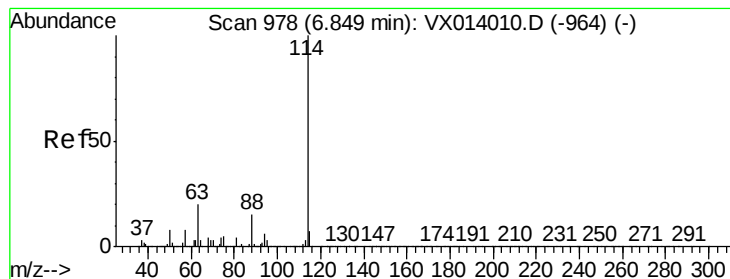
Tot Ion: 83 Resp: 4456
Ion Ratio Lower Upper
83 100
85 63.8 50.8 76.2



#33
1,2-Dichloroethane-d4
Concen: 49.461 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

Tgt Ion: 65 Resp: 317225
Ion Ratio Lower Upper
65 100
67 54.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20191206

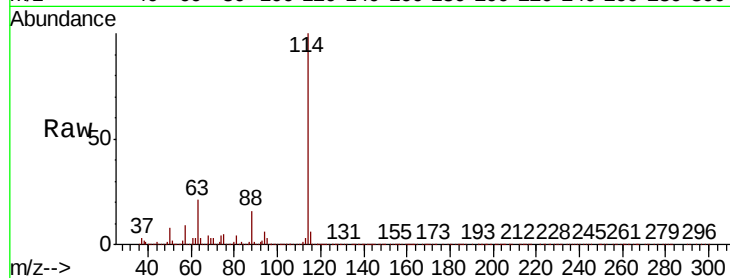
Tot Ion:114 Resp: 876614

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

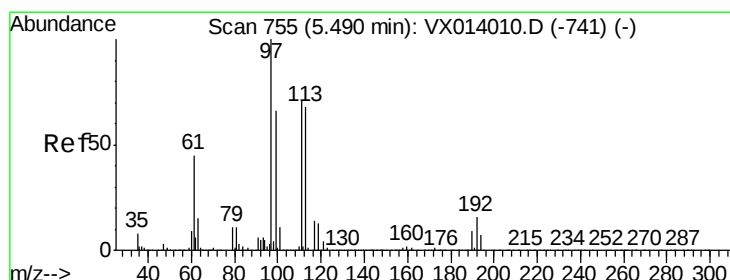
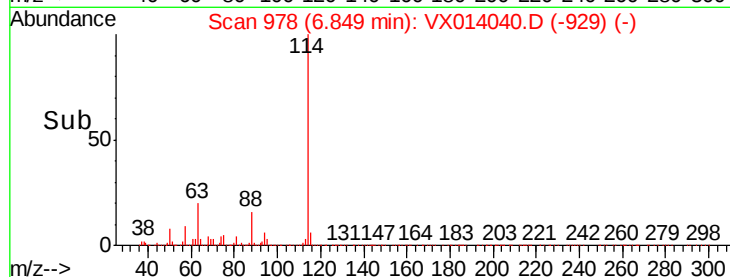
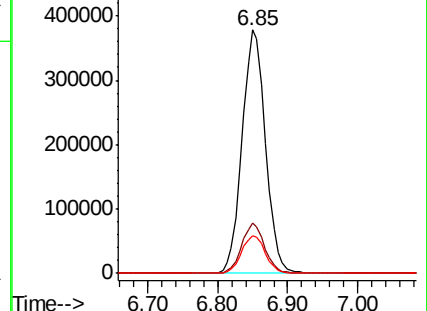
88 15.5 0.0 30.4



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: 48.908 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

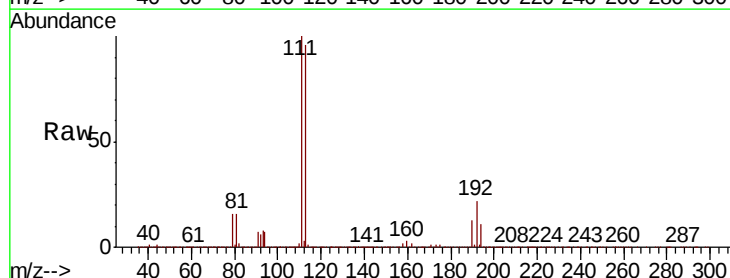
Tgt Ion:113 Resp: 260624

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

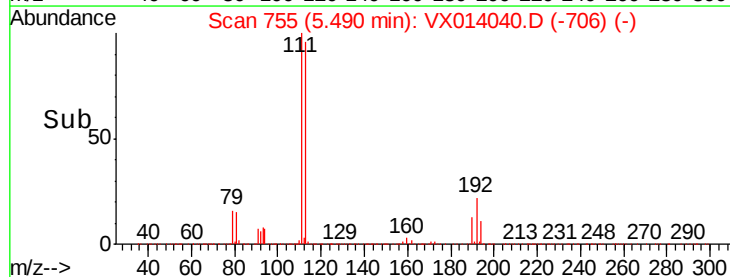
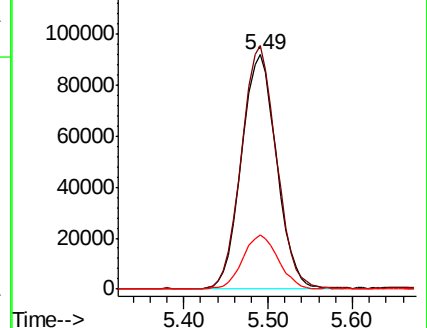
192 23.3 19.3 28.9

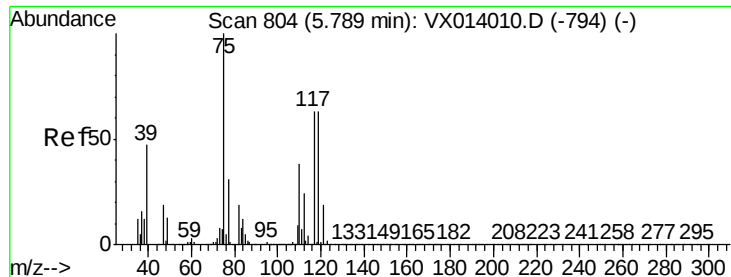


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

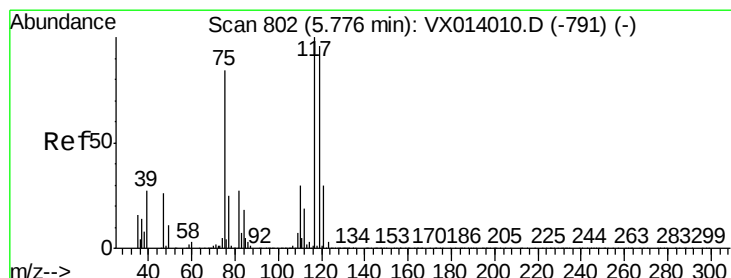
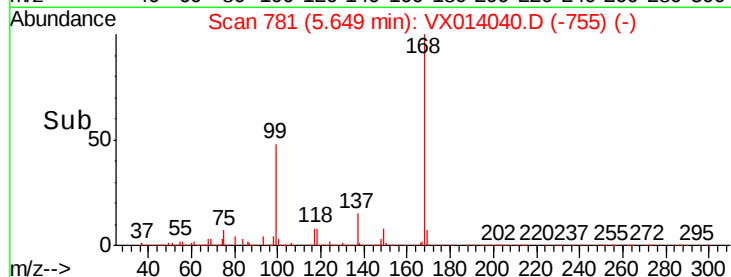
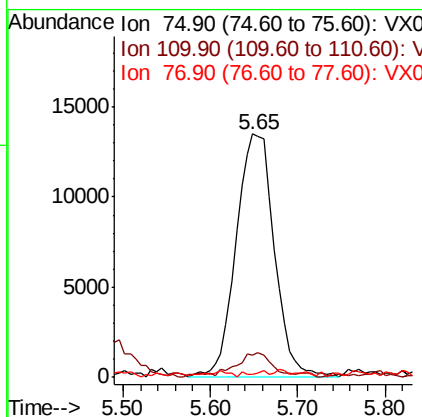
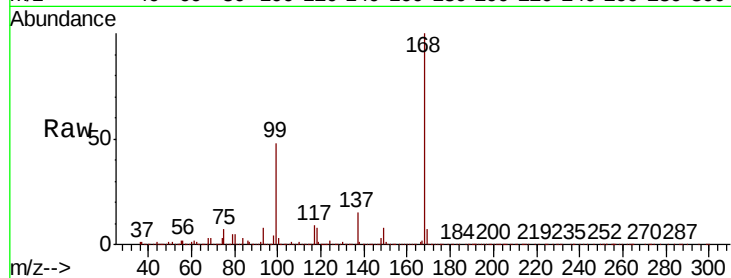




#36
 1,1-Dichloropropene
 Concen: 5.115 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014040.D
 Acq: 16 Dec 2019 17:10

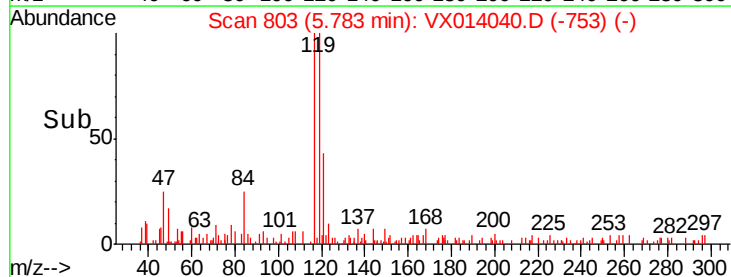
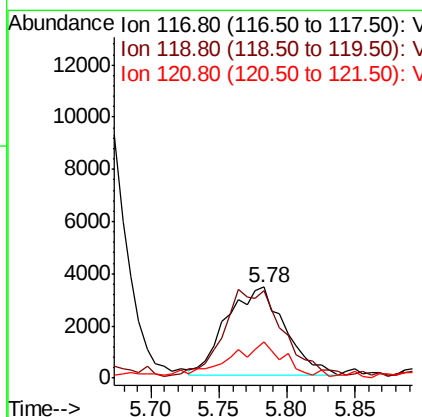
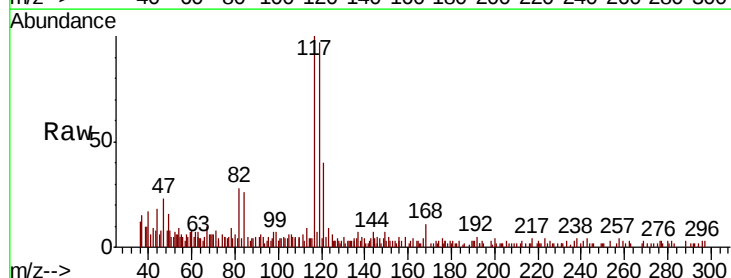
Instrument :
 MSVOA_X
 ClientSampleId :
 RE139D2-20191206

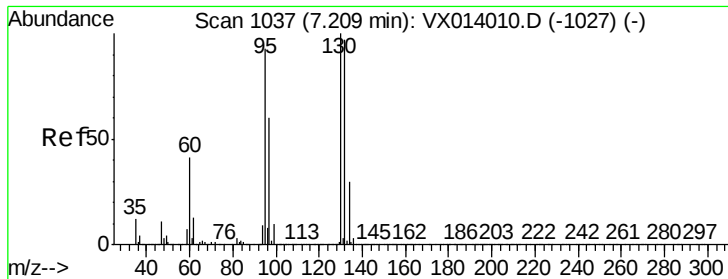
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.3	54.9#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 1.379 ug/l
 RT: 5.78 min Scan# 803
 Delta R.T. 0.01 min
 Lab File: VX014040.D
 Acq: 16 Dec 2019 17:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.9	76.2	114.4
121	38.1	23.6	35.4#





#44

Trichloroethene

Concen: 128.378 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

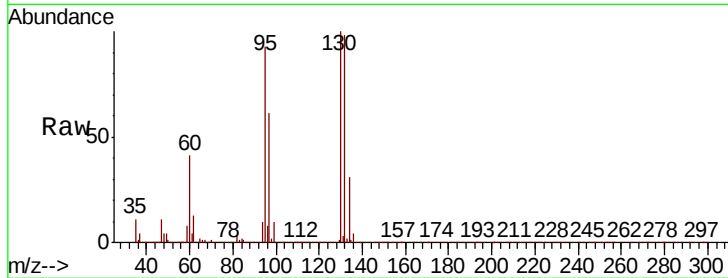
RE139D2-20191206

Tot Ion:130 Resp: 877567

Ion Ratio Lower Upper

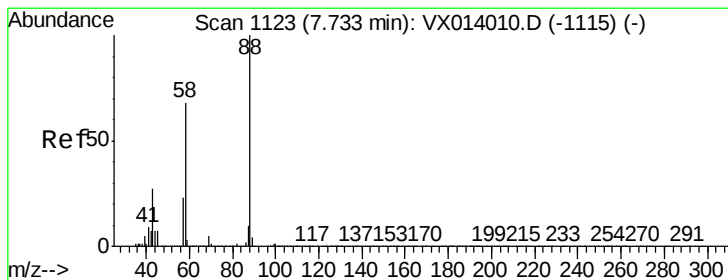
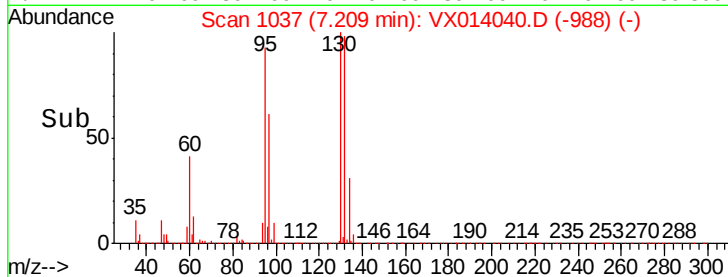
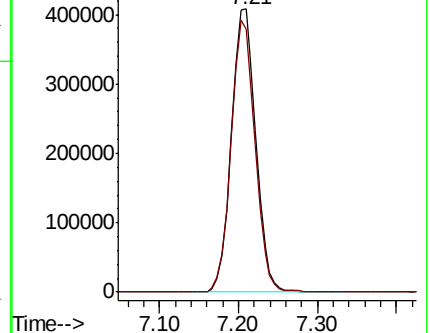
130 100

95 92.9 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.874 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

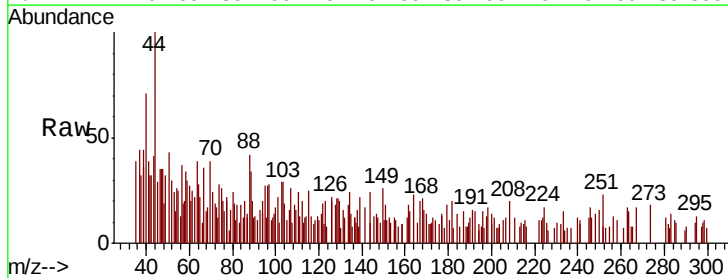
Tgt Ion: 88 Resp: 714

Ion Ratio Lower Upper

88 100

43 48.3 26.5 39.7#

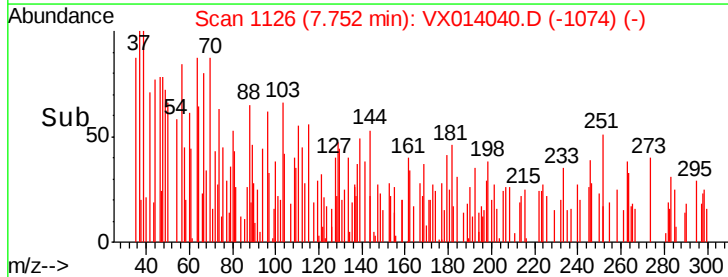
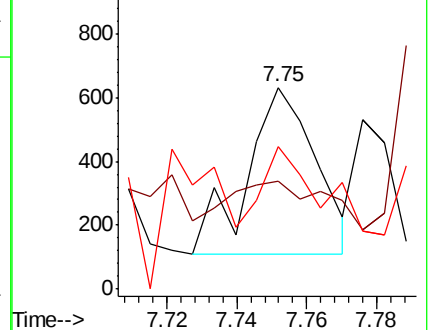
58 42.2 56.8 85.2#

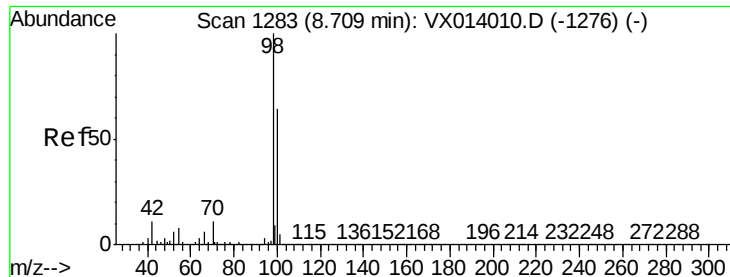


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.272 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

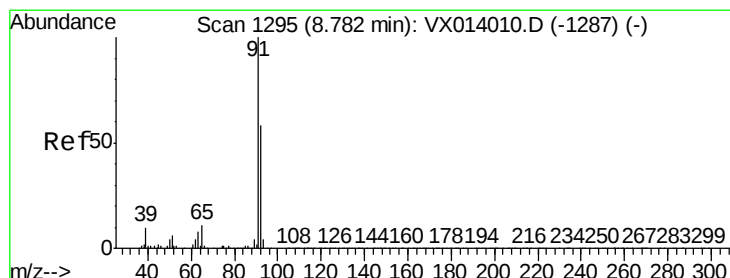
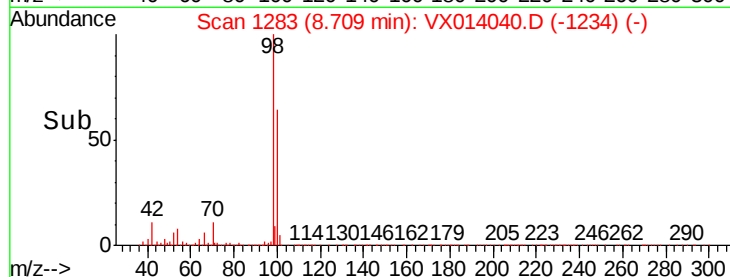
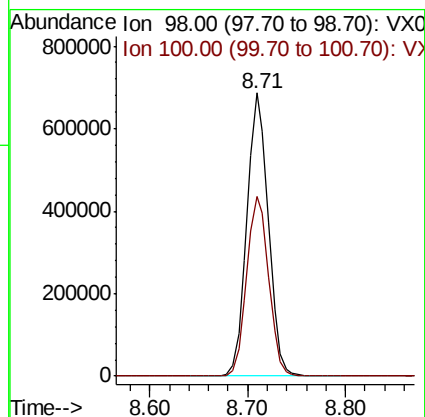
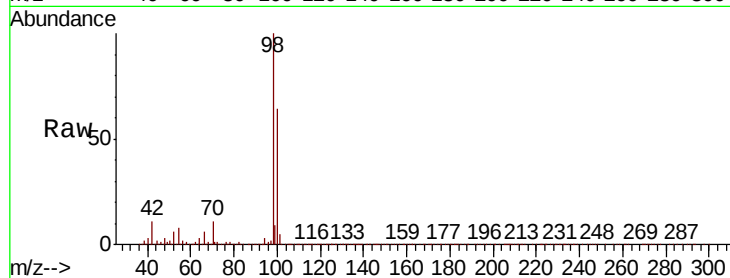
RE139D2-20191206

Tot Ion: 98 Resp: 1042960

Ion Ratio Lower Upper

98 100

100 65.4 52.9 79.3



#52

Toluene

Concen: 0.400 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014040.D

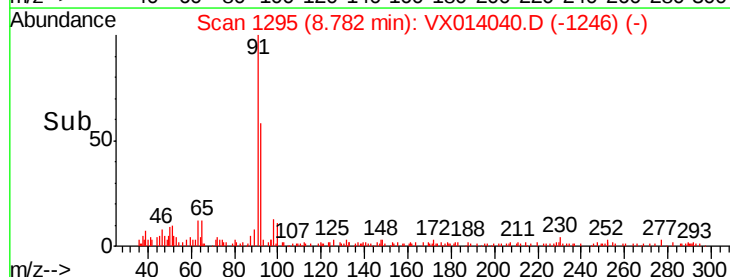
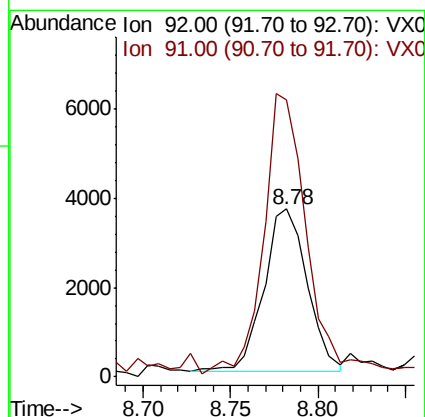
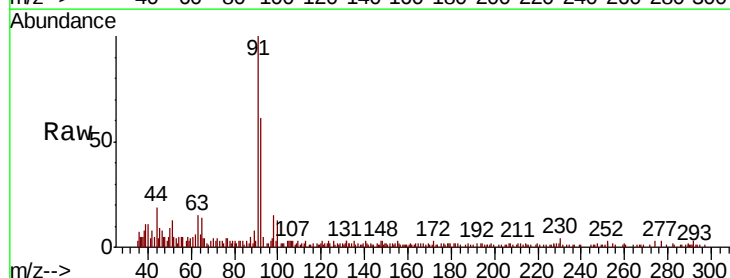
Acq: 16 Dec 2019 17:10

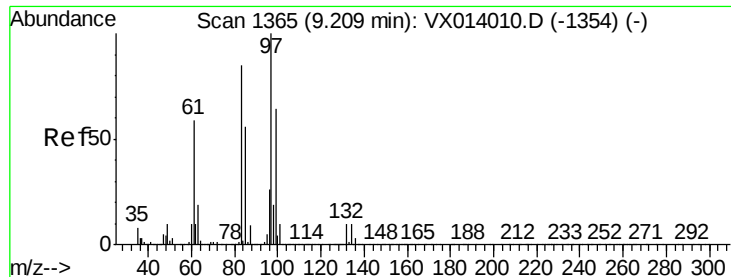
Tgt Ion: 92 Resp: 6255

Ion Ratio Lower Upper

92 100

91 163.3 136.2 204.4





#55

1,1,2-Trichloroethane

Concen: 0.598 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

RE139D2-20191206

Tot Ion: 97 Resp: 3752

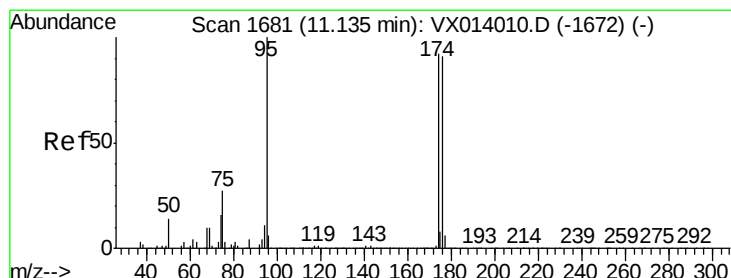
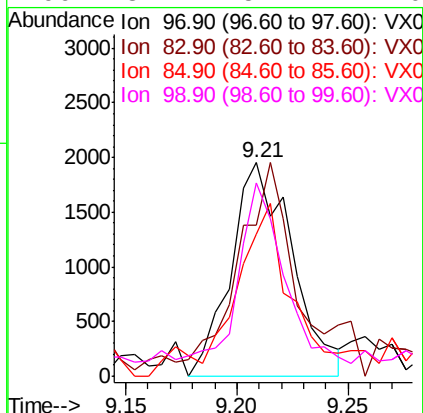
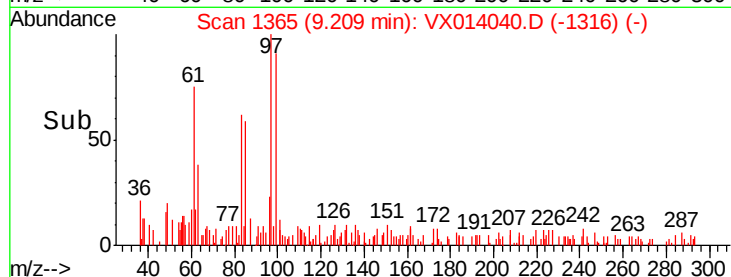
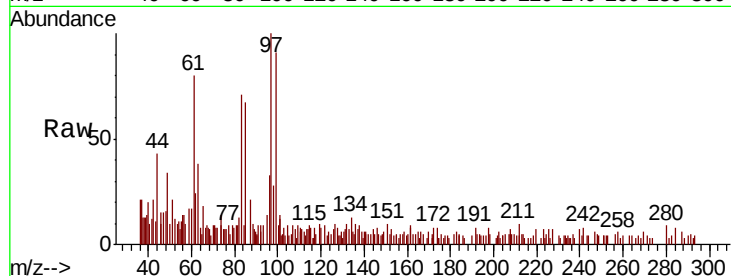
Ion Ratio Lower Upper

97 100

83 62.9 68.2 102.4#

85 56.7 44.6 66.8

99 81.4 51.4 77.0#



#62

4-Bromofluorobenzene

Concen: 45.224 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

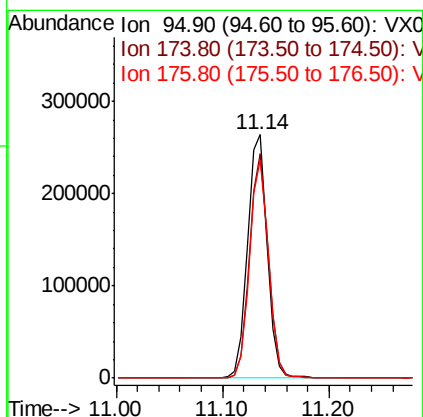
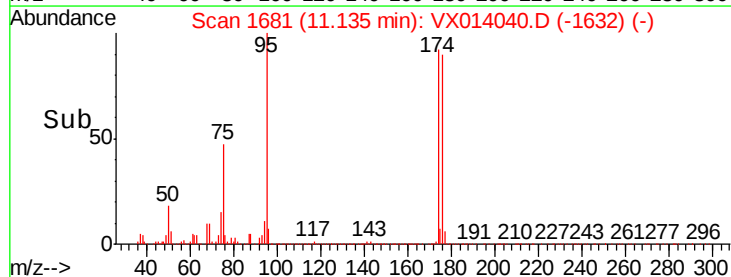
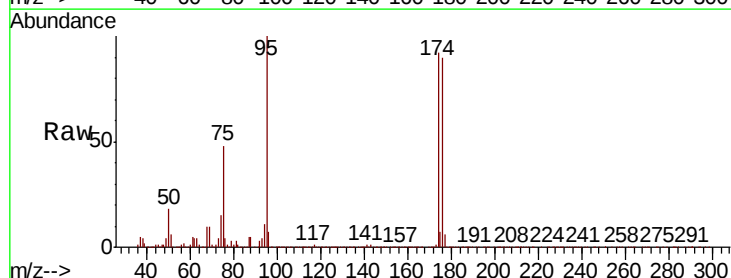
Tgt Ion: 95 Resp: 342968

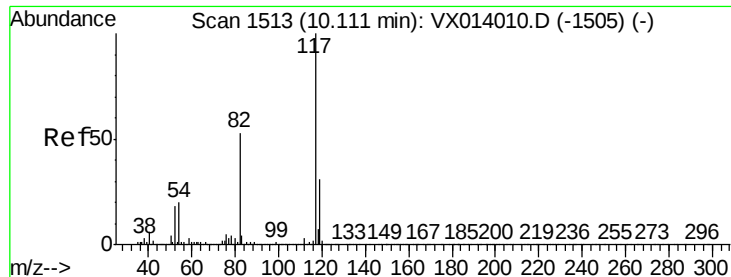
Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.8

176 87.0 0.0 173.0

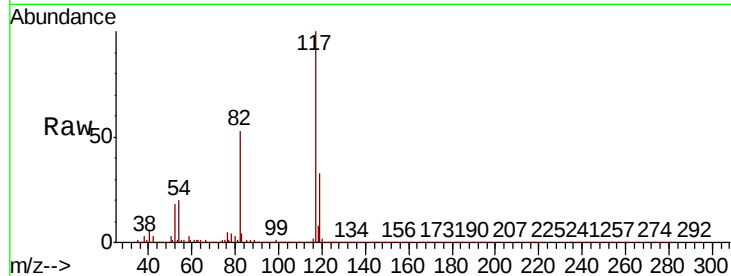




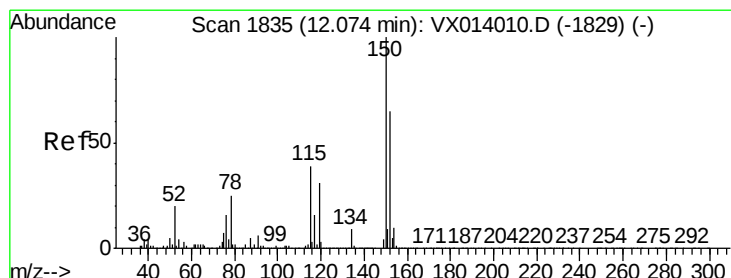
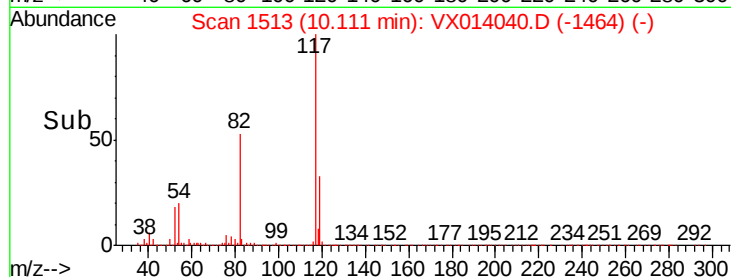
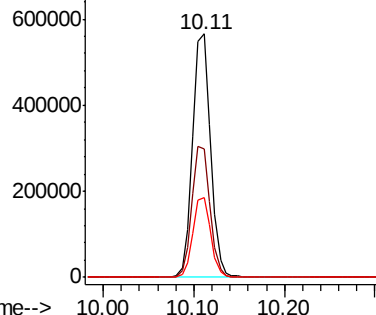
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

Instrument :
MSVOA_X
ClientSampleId :
RE139D2-20191206

Tot Ion:117 Resp: 786068
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 32.5 25.1 37.7

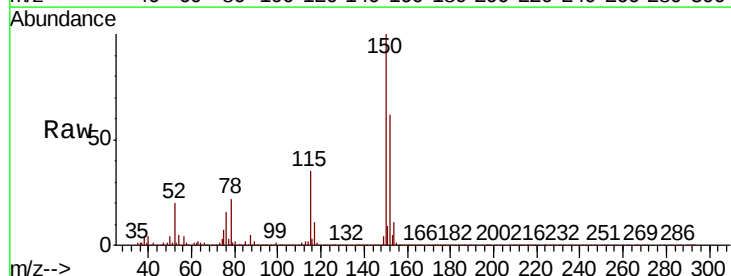


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

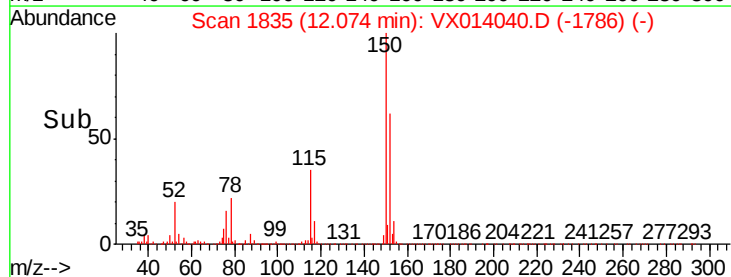
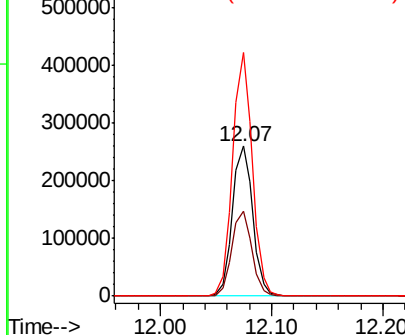


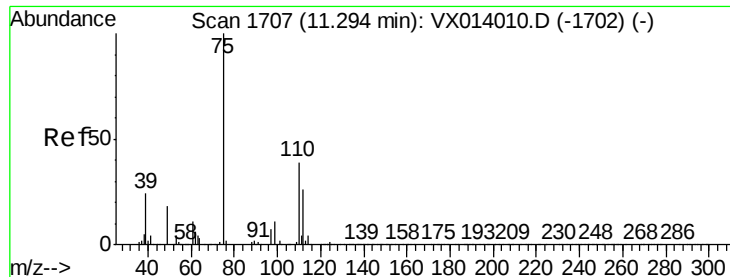
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014040.D
Acq: 16 Dec 2019 17:10

Tgt Ion:152 Resp: 328433
Ion Ratio Lower Upper
152 100
115 56.1 38.3 114.9
150 157.4 0.0 345.4



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: 23.610 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

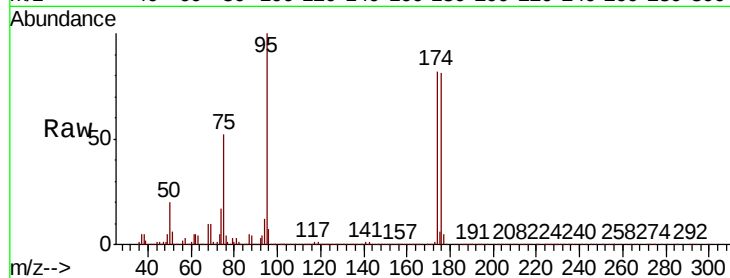
RE139D2-20191206

Tot Ion: 75 Resp: 168347

Ion Ratio Lower Upper

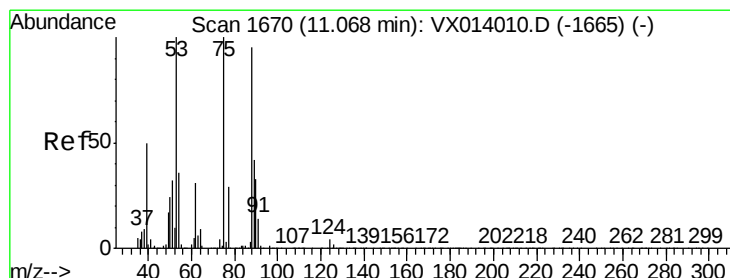
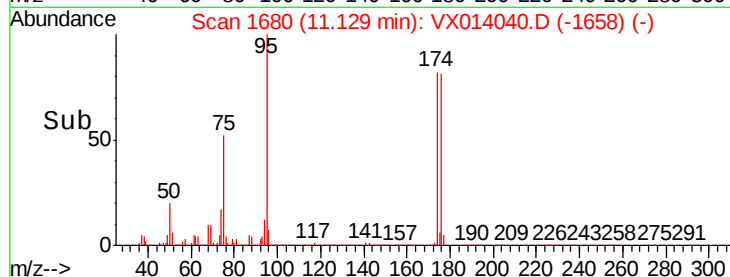
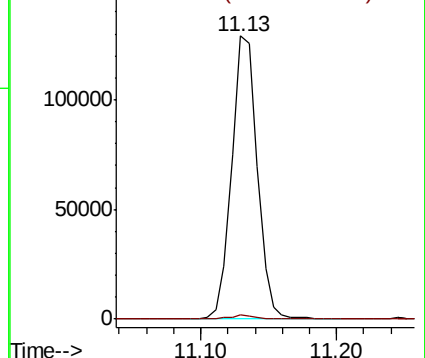
75 100

77 1.2 19.3 57.8#



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: 66.641 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014040.D

Acq: 16 Dec 2019 17:10

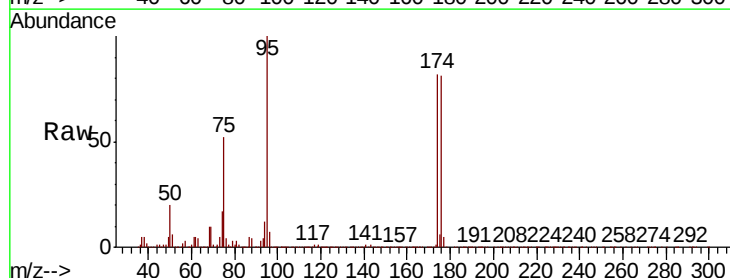
Tgt Ion: 75 Resp: 168347

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

