

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014033.D
 Acq On : 16 Dec 2019 14:27
 Operator : JC/SP
 Sample : K6252-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20191210

Quant Time: Dec 17 03:28:38 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	585693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	907672	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	799175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345032	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	327400	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
35) Dibromofluoromethane	5.49	113	269564	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	1065985	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	11.14	95	352155	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	

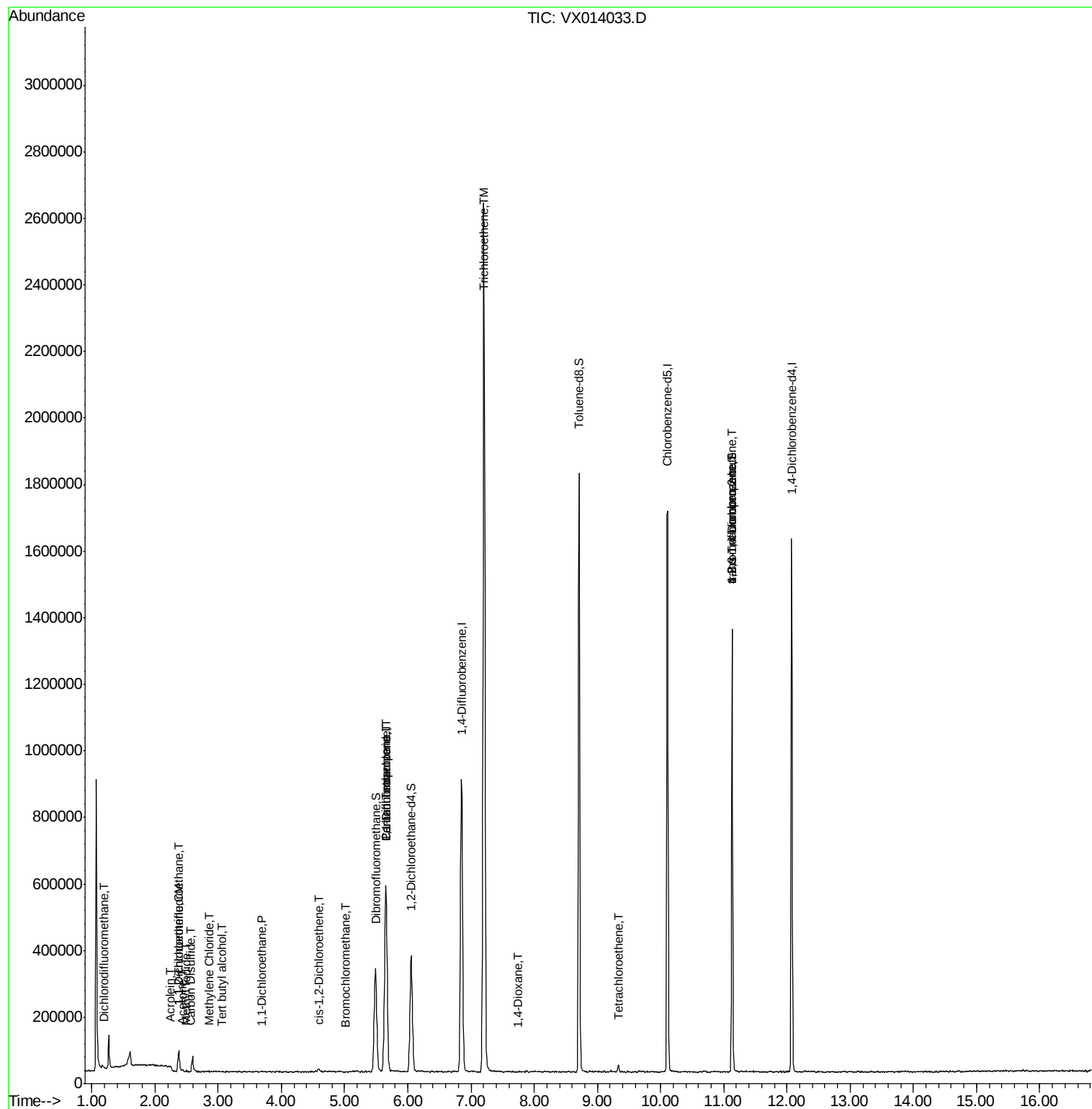
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1134	0.216	ug/l #	53
9) 1,1,2-Trichlorotrifluoroet	2.37	101	22928	4.141	ug/l	99
10) Methyl Iodide	2.50	142	458	2.680	ug/l #	43
11) Tert butyl alcohol	3.06	59	897	0.625	ug/l #	48
12) 1,1-Dichloroethene	2.37	96	5855	1.039	ug/l #	83
13) Acrolein	2.25	56	332	0.404	ug/l #	14
16) Acetone	2.43	43	8376	1.944	ug/l #	86
17) Carbon Disulfide	2.56	76	1445	0.841	ug/l #	75
20) Methylene Chloride	2.86	84	1966	0.290	ug/l #	38
24) 1,1-Dichloroethane	3.69	63	3165	0.284	ug/l #	52
27) cis-1,2-Dichloroethene	4.59	96	4992	0.711	ug/l	89
28) Bromochloromethane	5.01	49	347	0.534	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	38527	4.626	ug/l #	51
38) Carbon Tetrachloride	5.65	117	52910	6.974	ug/l #	15
44) Trichloroethene	7.20	130	1048424	148.125	ug/l	99
49) 1,4-Dioxane	7.74	88	442	2.914	ug/l #	25
64) Tetrachloroethene	9.34	164	5602	0.792	ug/l #	78
76) 1,2,3-Trichloropropane	11.13	75	174124	23.246	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	174124	65.612	ug/l #	12

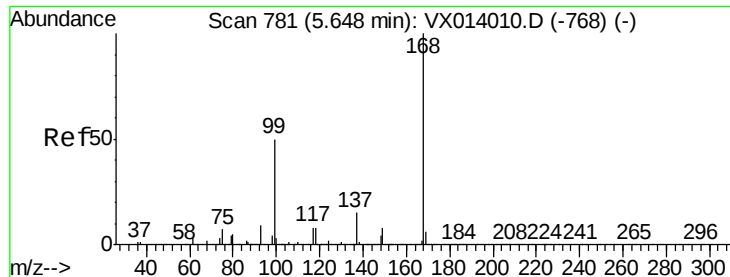
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

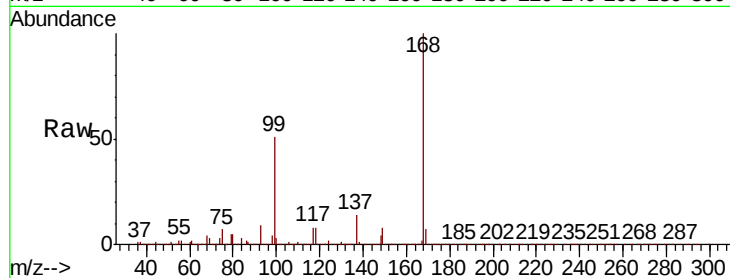
RE120D3-20191210

Tot Ion:168 Resp: 585693

Ion Ratio Lower Upper

168 100

99 50.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

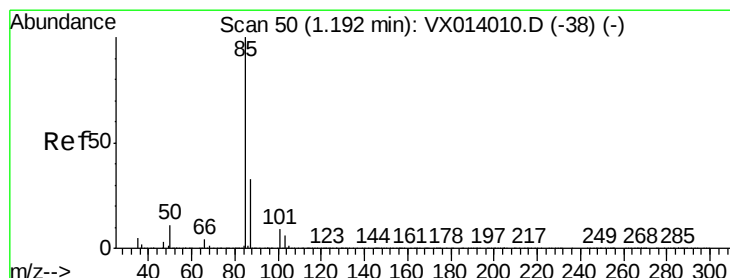
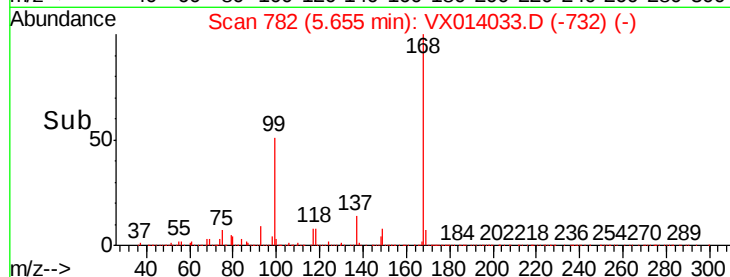
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.216 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014033.D

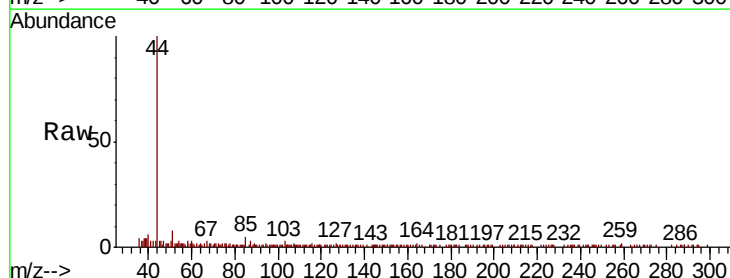
Acq: 16 Dec 2019 14:27

Tgt Ion: 85 Resp: 1134

Ion Ratio Lower Upper

85 100

87 59.4 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

600

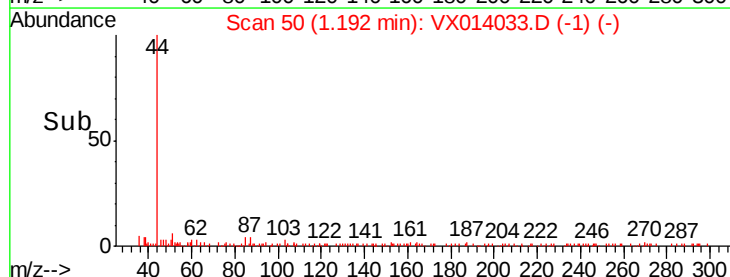
400

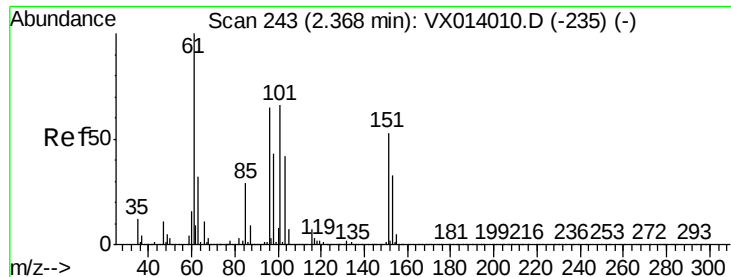
200

0

1.15 1.20

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.141 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

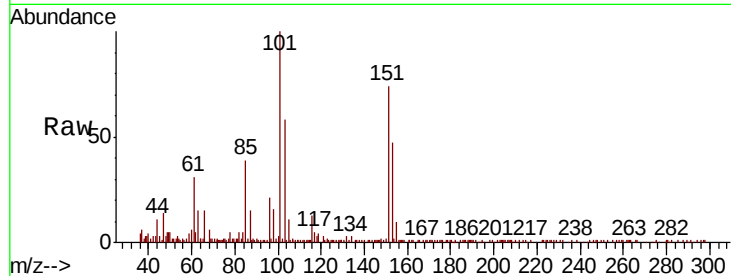
Tot Ion:101 Resp: 22928

Ion Ratio Lower Upper

101 100

85 42.3 33.7 50.5

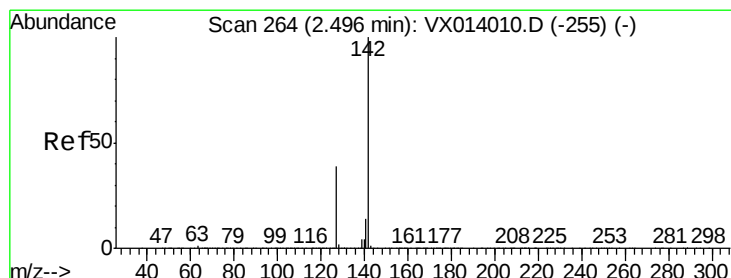
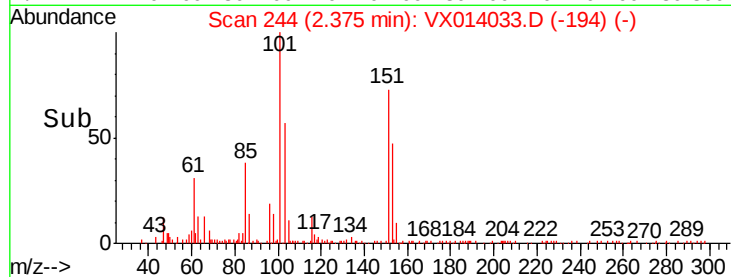
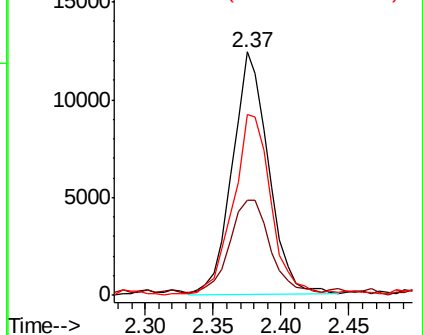
151 79.3 64.5 96.7



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: 2.680 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

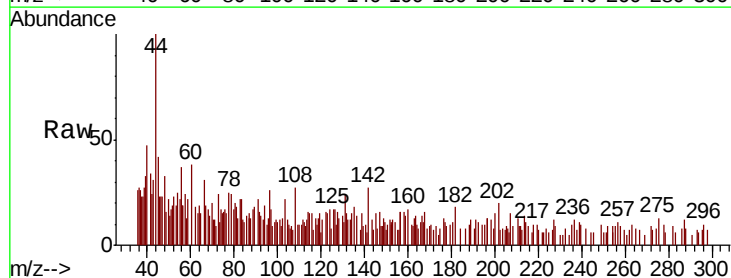
Tgt Ion:142 Resp: 458

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

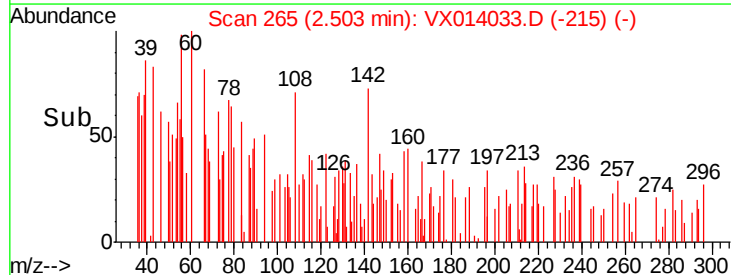
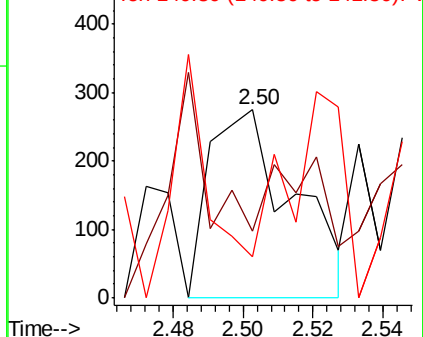
141 0.0 11.6 17.4#

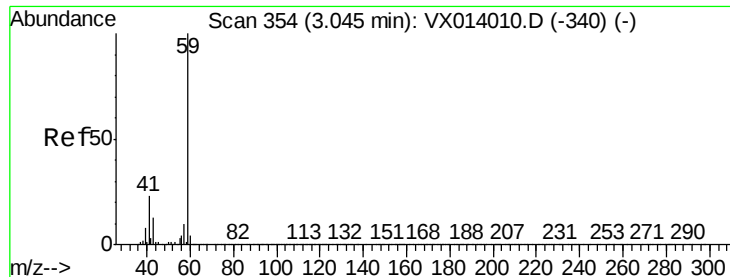


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



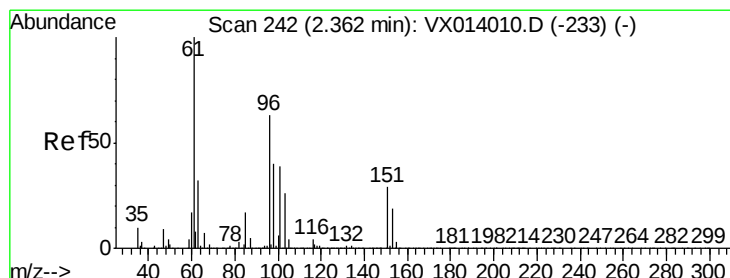
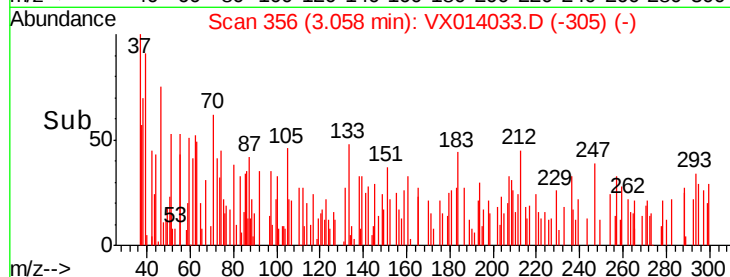
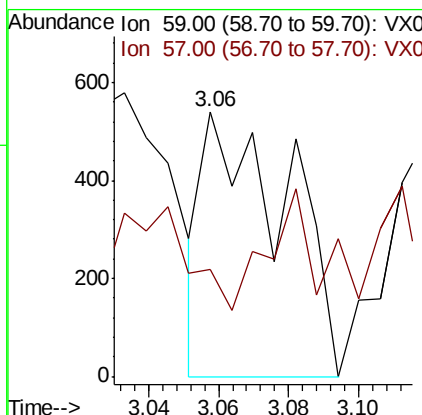
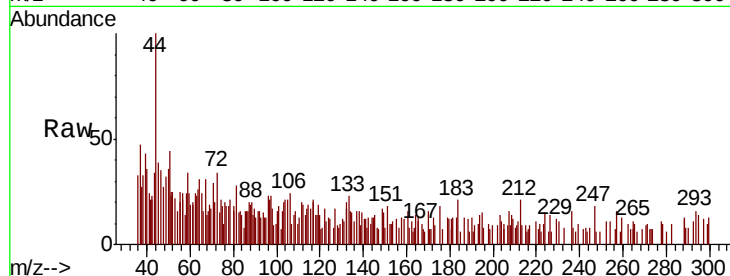


#11

Tert butyl alcohol
 Concen: 0.625 ug/l
 RT: 3.06 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VX014033.D
 Acq: 16 Dec 2019 14:27

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D3-20191210

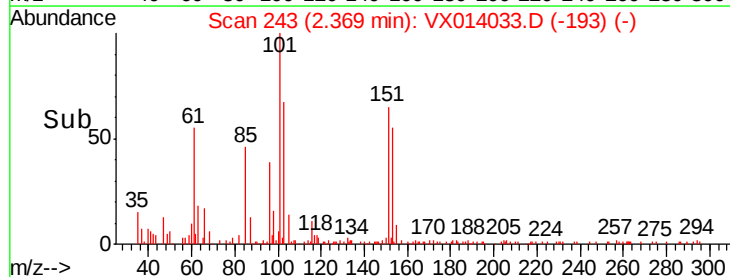
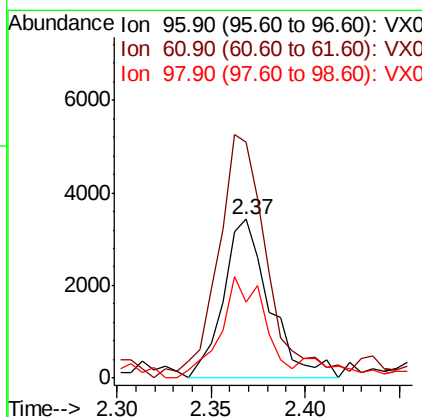
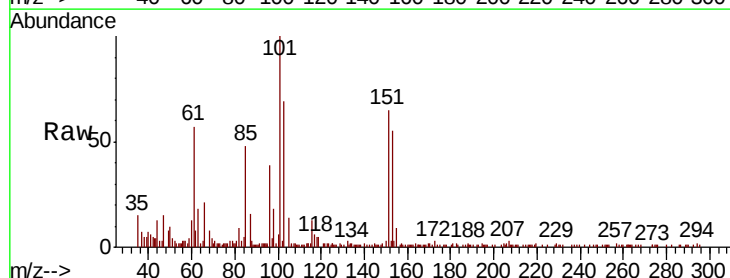
Tot Ion: 59 Resp: 897
 Ion Ratio Lower Upper
 59 100
 57 29.9 8.4 12.6#

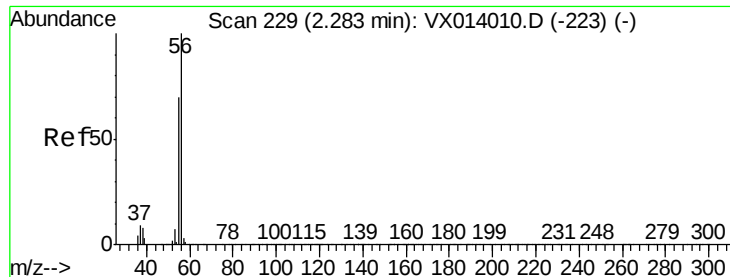


#12

1,1-Dichloroethene
 Concen: 1.039 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VX014033.D
 Acq: 16 Dec 2019 14:27

Tgt Ion: 96 Resp: 5855
 Ion Ratio Lower Upper
 96 100
 61 142.7 127.9 191.9
 98 43.2 50.5 75.7#





#13

Acrolein

Concen: 0.404 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

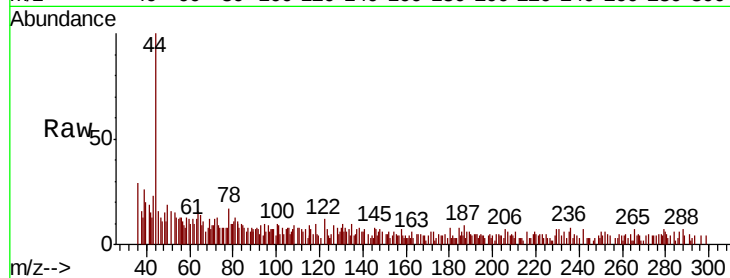
RE120D3-20191210

Tot Ion: 56 Resp: 332

Ion Ratio Lower Upper

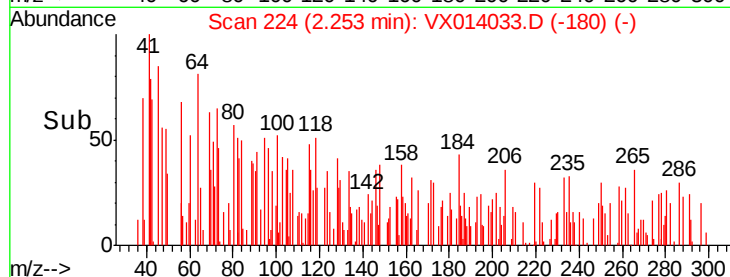
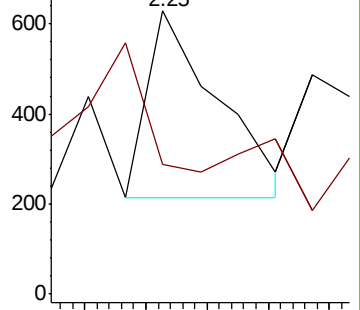
56 100

55 0.0 56.9 85.3#

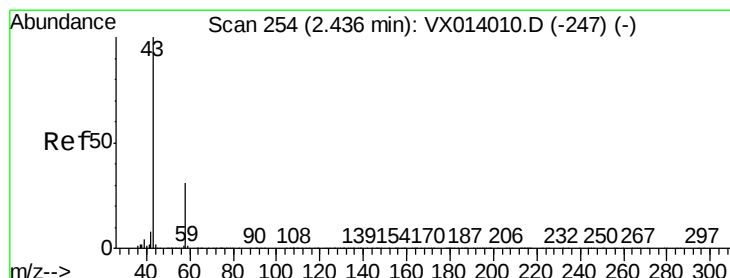


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.944 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014033.D

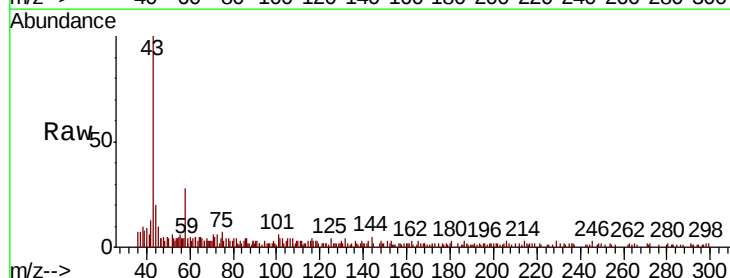
Acq: 16 Dec 2019 14:27

Tgt Ion: 43 Resp: 8376

Ion Ratio Lower Upper

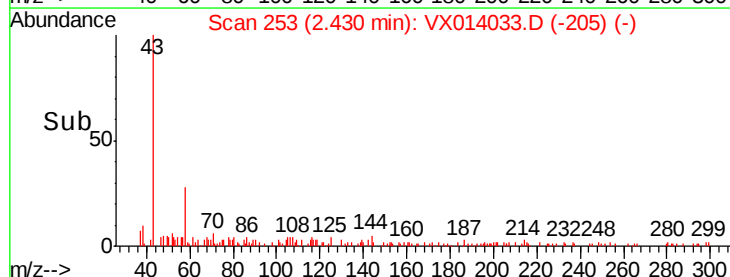
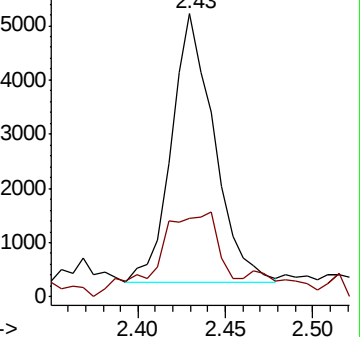
43 100

58 23.6 24.9 37.3#

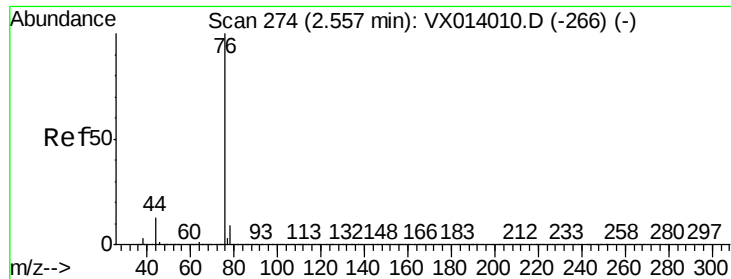


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 0.841 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

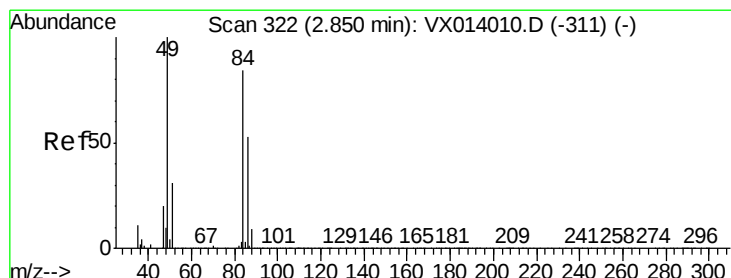
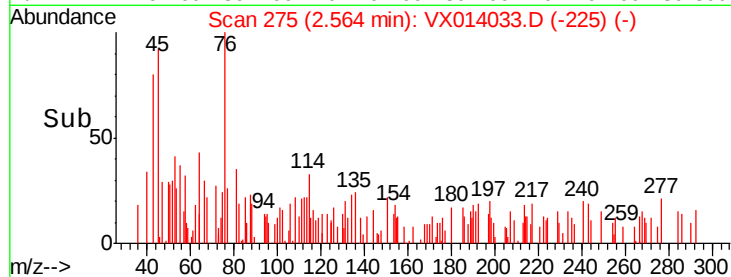
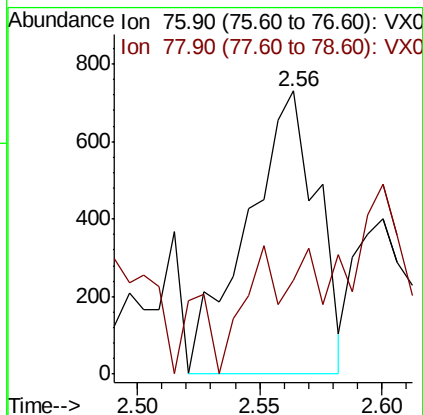
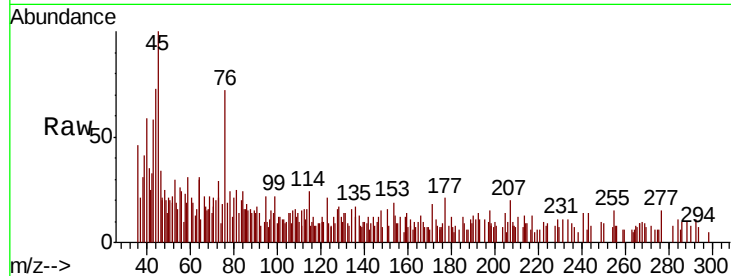
RE120D3-20191210

Tot Ion: 76 Resp: 1445

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: 0.290 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Tgt Ion: 84 Resp: 1966

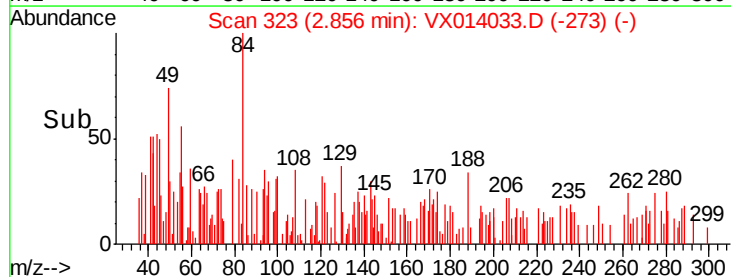
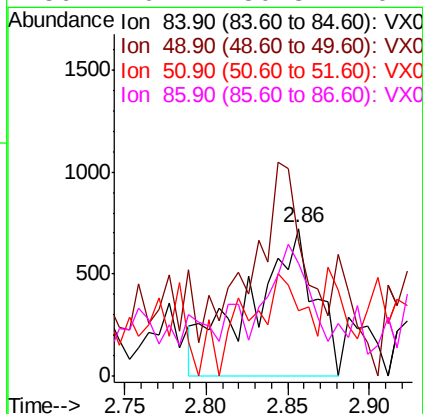
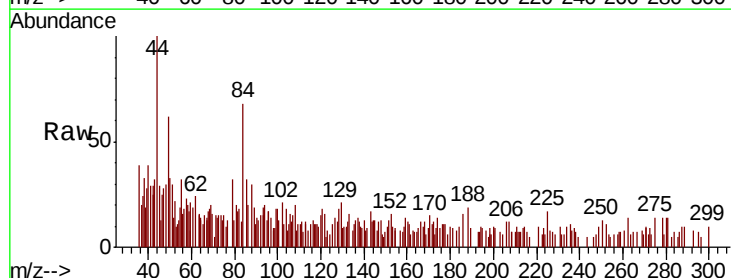
Ion Ratio Lower Upper

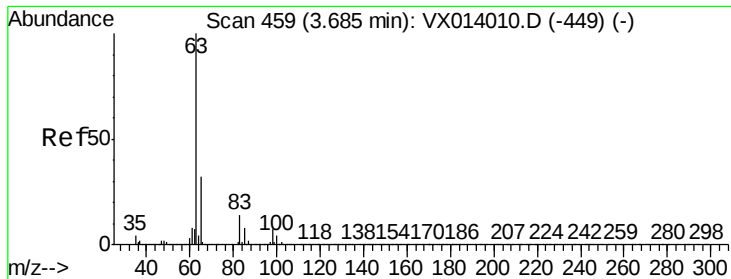
84 100

49 18.8 95.8 143.6#

51 21.0 29.8 44.8#

86 40.7 50.8 76.2#





#24

1,1-Dichloroethane

Concen: 0.284 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

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ClientSampleId :

RE120D3-20191210

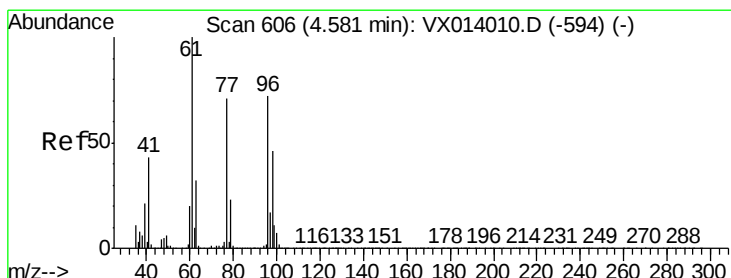
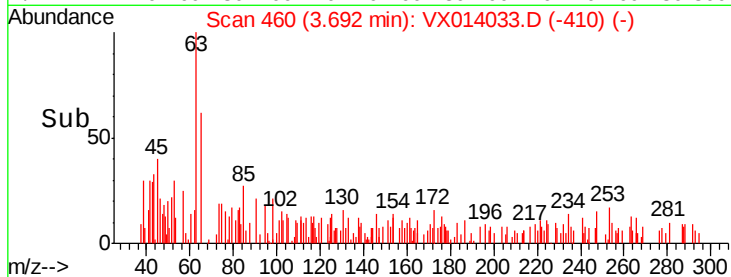
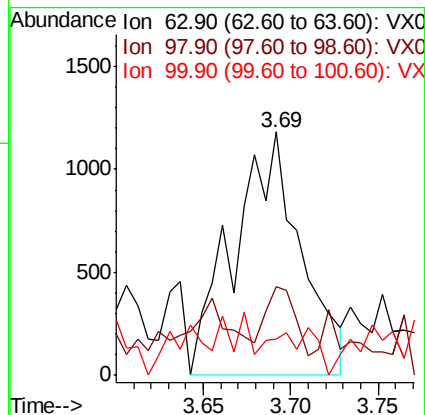
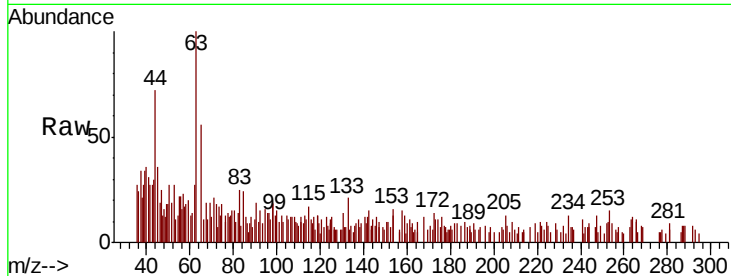
Tot Ion: 63 Resp: 3165

Ion Ratio Lower Upper

63 100

98 31.9 3.6 10.8#

100 7.7 2.3 6.8#



#27

cis-1,2-Dichloroethene

Concen: 0.711 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

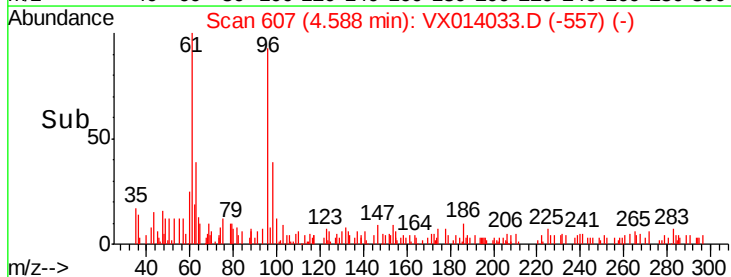
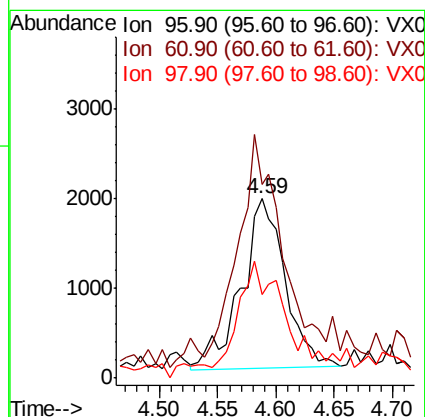
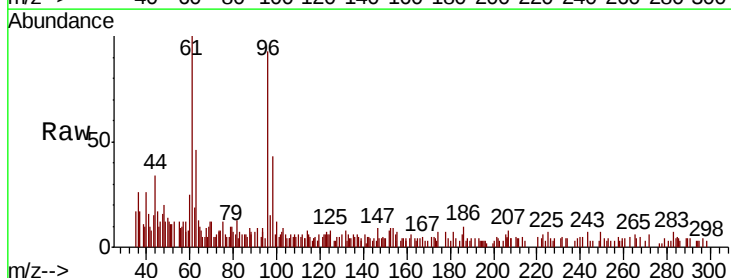
Tgt Ion: 96 Resp: 4992

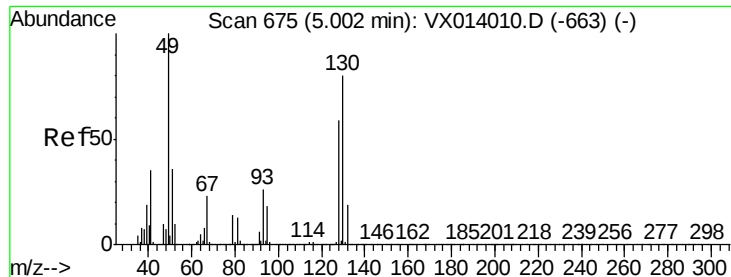
Ion Ratio Lower Upper

96 100

61 127.9 0.0 288.4

98 60.4 0.0 129.6





#28

Bromochloromethane

Concen: 0.534 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

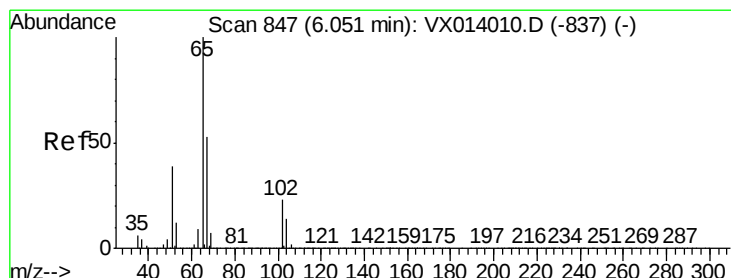
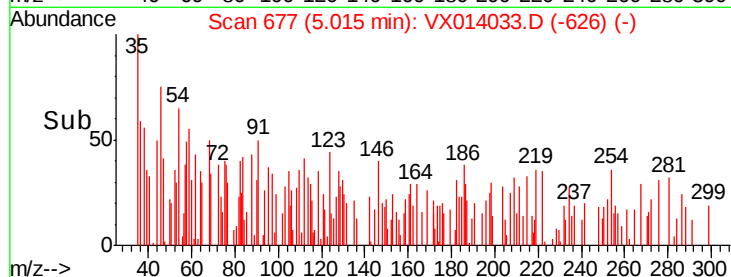
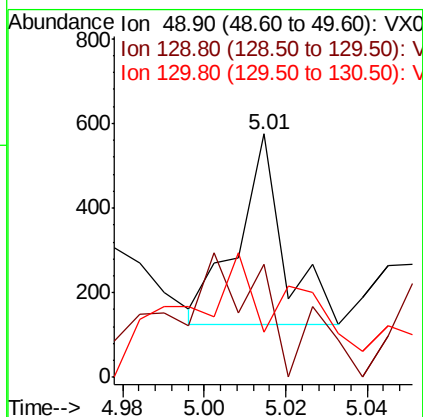
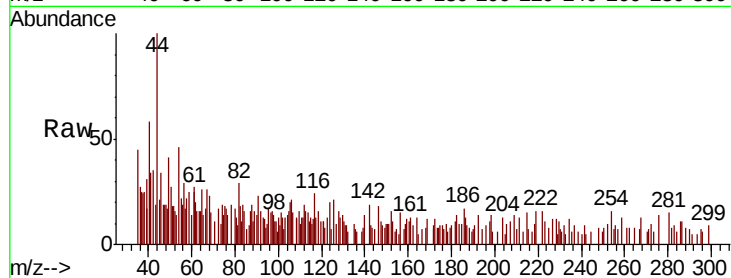
Tot Ion: 49 Resp: 347

Ion Ratio Lower Upper

49 100

129 156.2 0.0 5.0#

130 168.3 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 49.322 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014033.D

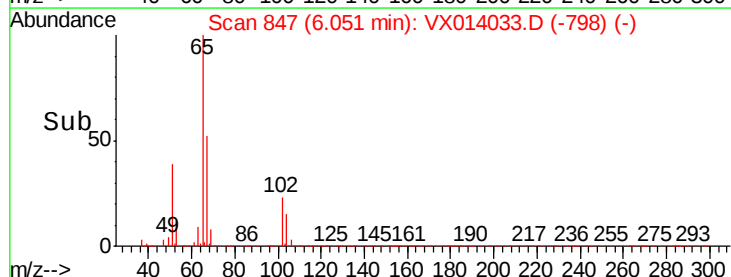
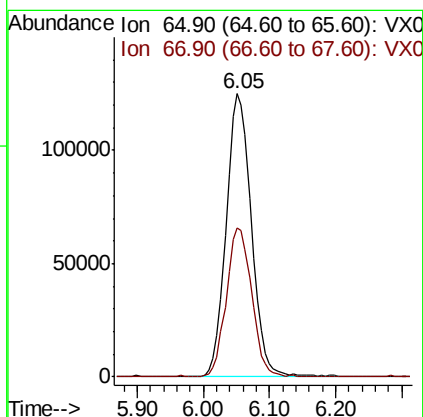
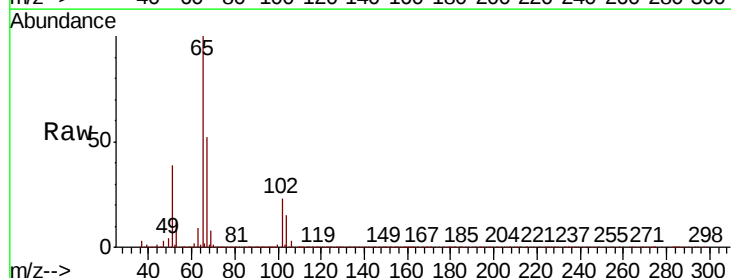
Acq: 16 Dec 2019 14:27

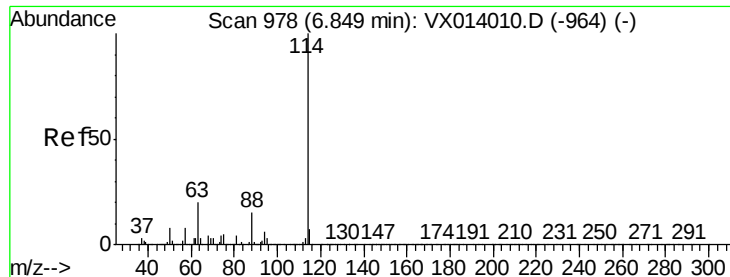
Tgt Ion: 65 Resp: 327400

Ion Ratio Lower Upper

65 100

67 53.0 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: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

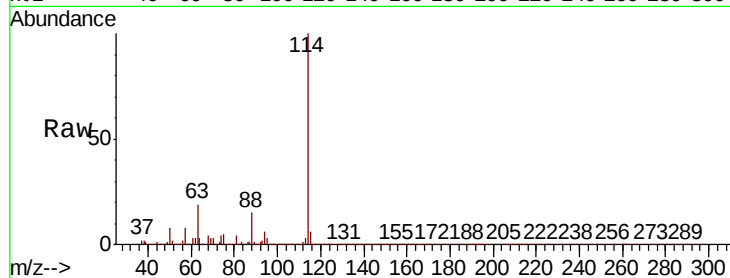
Tot Ion:114 Resp: 907672

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.8

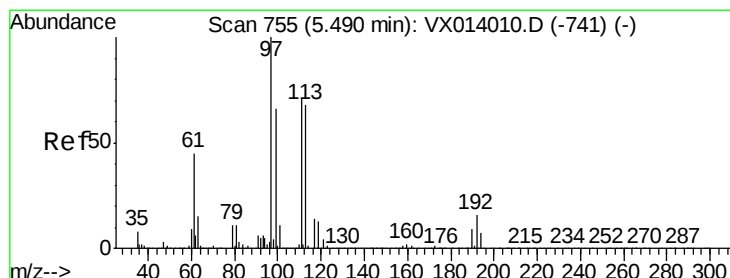
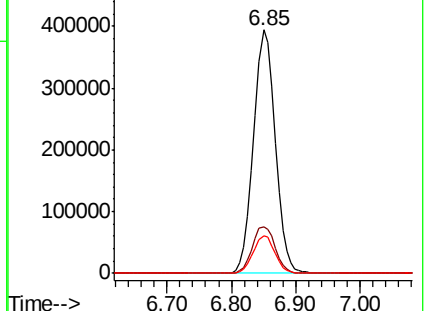
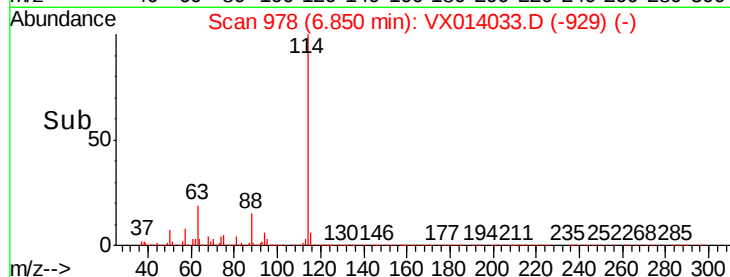
88 15.3 0.0 30.4



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: 48.855 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

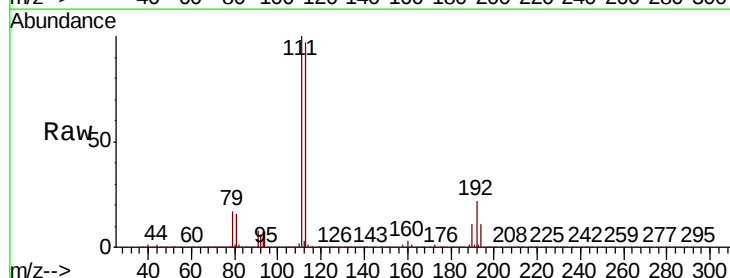
Tgt Ion:113 Resp: 269564

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

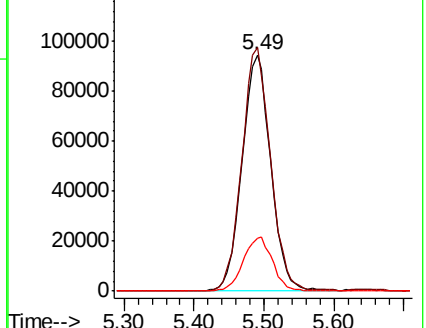
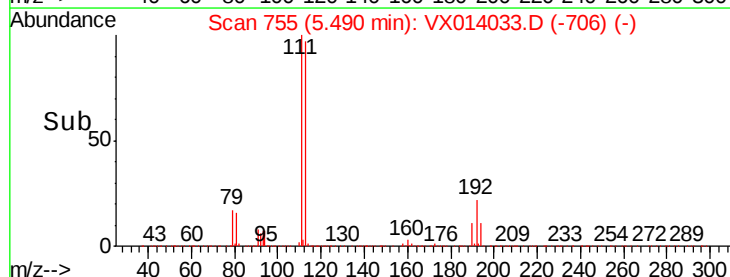
192 23.2 19.3 28.9

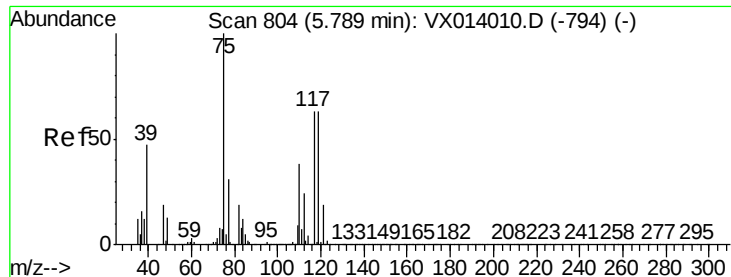


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.626 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

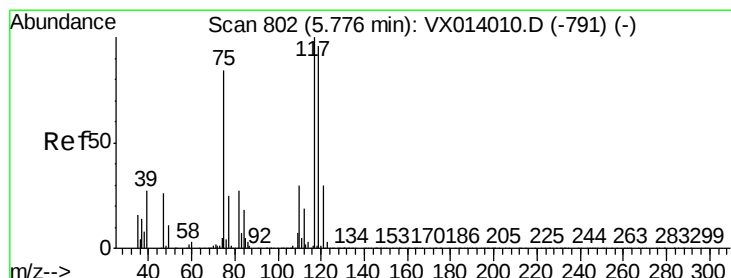
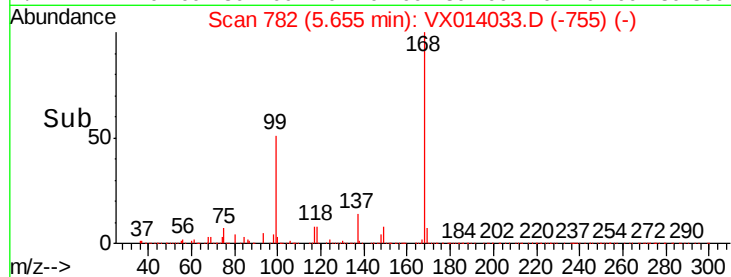
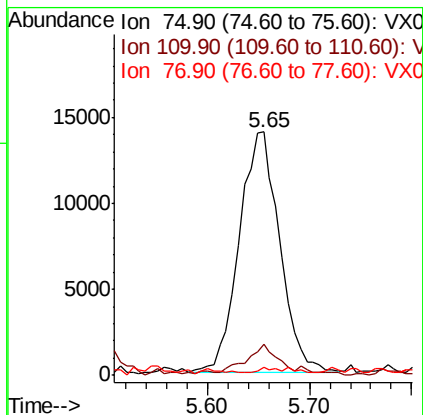
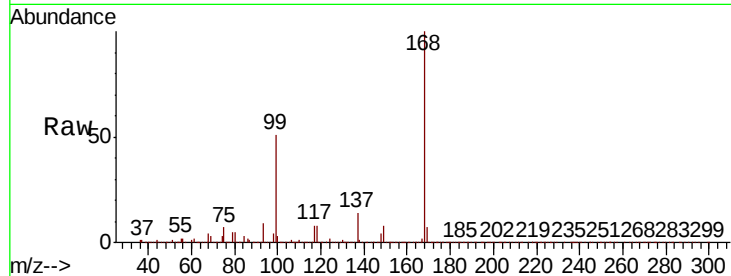
Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

Tot Ion:	75	Resp:	38527
Ion Ratio	Lower	Upper	
75	100		
110	9.9	18.3	54.9#
77	0.9	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 6.974 ug/l

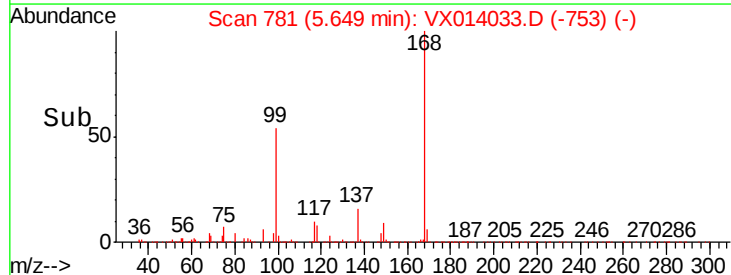
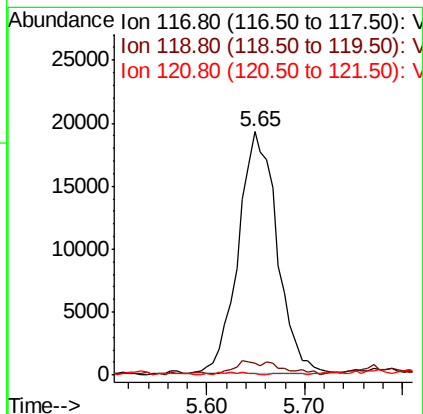
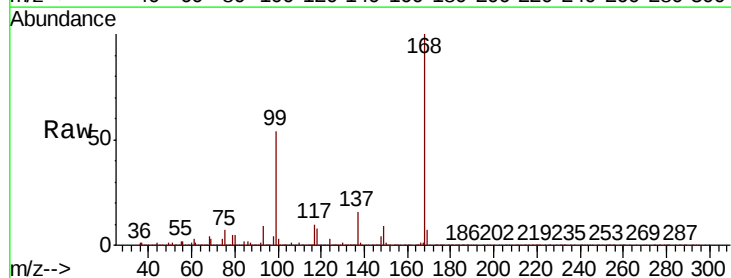
RT: 5.65 min Scan# 781

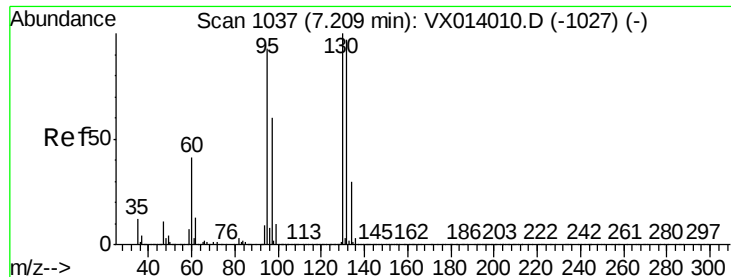
Delta R.T. -0.13 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Tgt Ion:	117	Resp:	52910
Ion Ratio	Lower	Upper	
117	100		
119	4.1	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 148.125 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

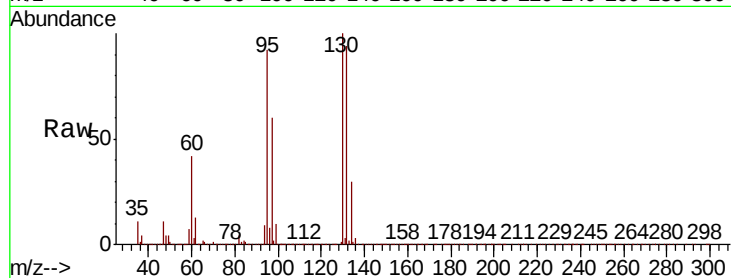
RE120D3-20191210

Tot Ion:130 Resp: 1048424

Ion Ratio Lower Upper

130 100

95 92.2 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

500000

400000

300000

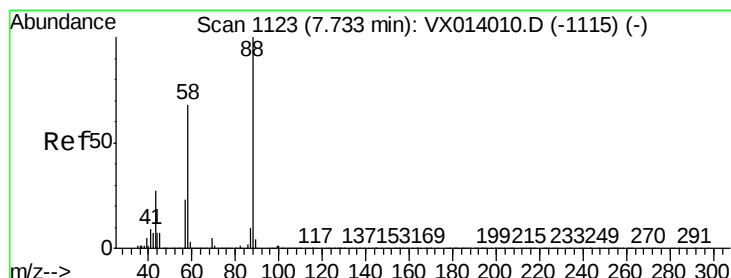
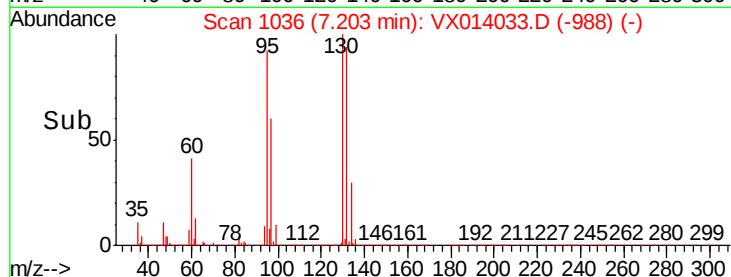
200000

100000

0

Time-->

7.10 7.20 7.30 7.40



#49

1,4-Dioxane

Concen: 2.914 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

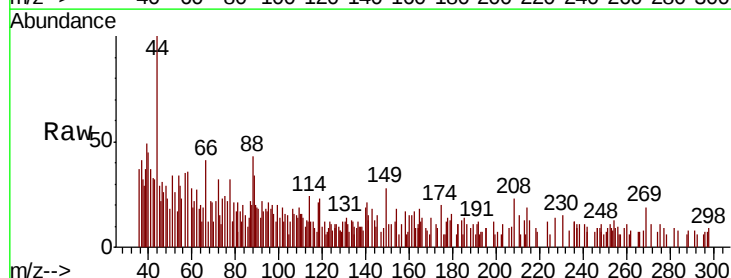
Tgt Ion: 88 Resp: 442

Ion Ratio Lower Upper

88 100

43 100.9 26.5 39.7#

58 115.4 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

800

600

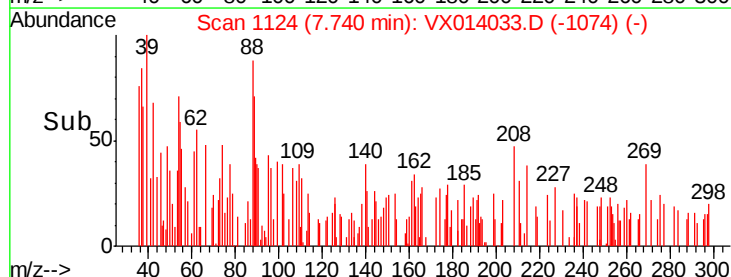
400

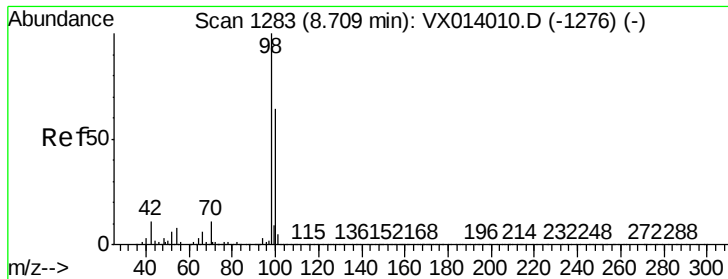
200

0

Time-->

7.72 7.73 7.74 7.75 7.76

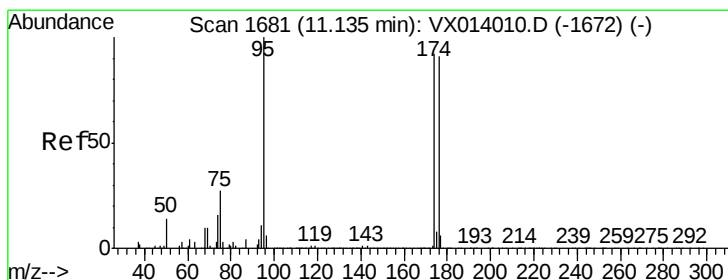
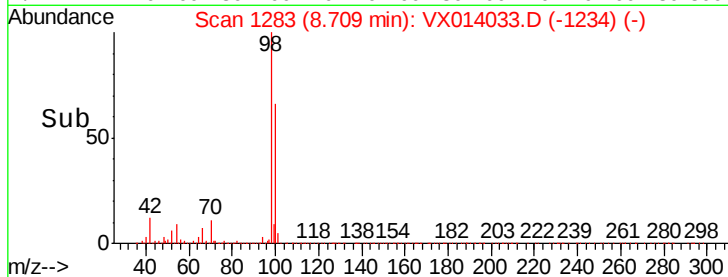
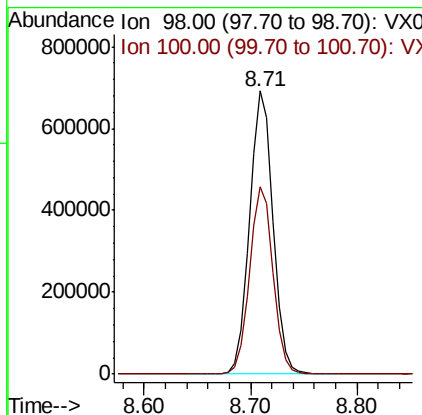
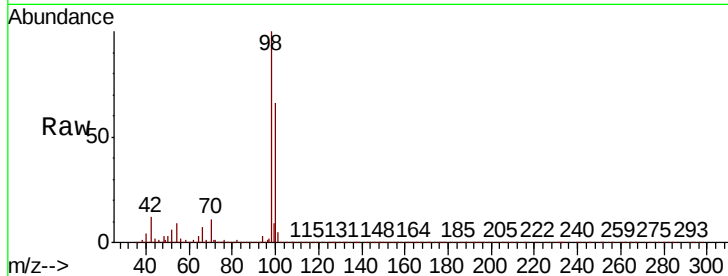




#50
Toluene-d8
Concen: 49.623 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014033.D
Acq: 16 Dec 2019 14:27

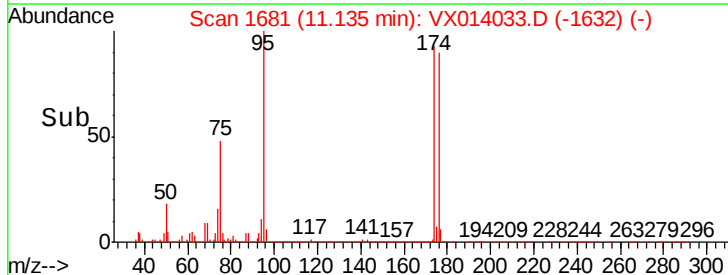
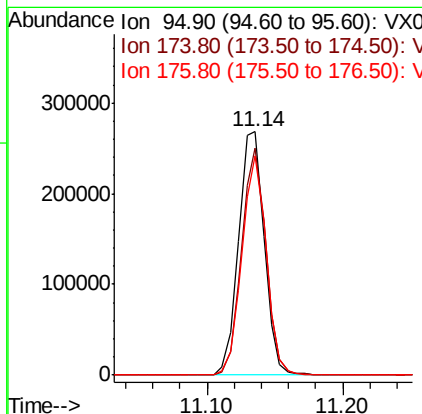
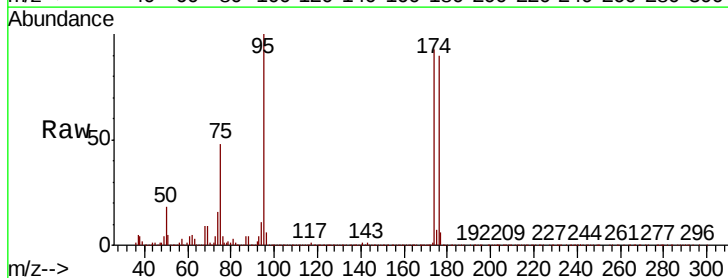
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20191210

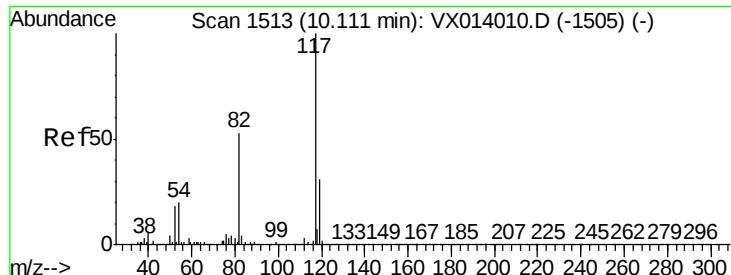
Tot Ion: 98 Resp: 1065985
Ion Ratio Lower Upper
98 100
100 66.4 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 44.846 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX014033.D
Acq: 16 Dec 2019 14:27

Tgt Ion: 95 Resp: 352155
Ion Ratio Lower Upper
95 100
174 88.7 0.0 175.8
176 85.8 0.0 173.0

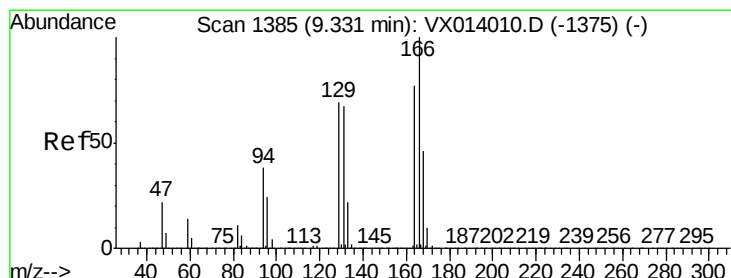
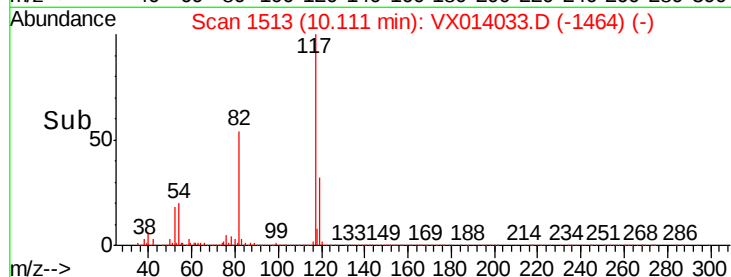
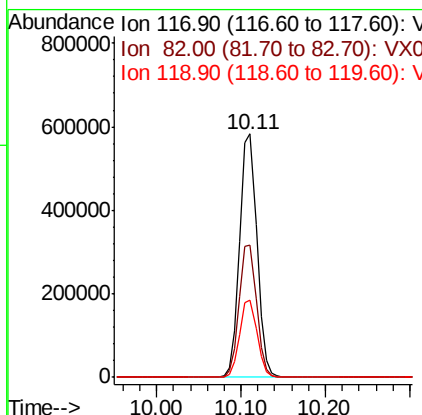
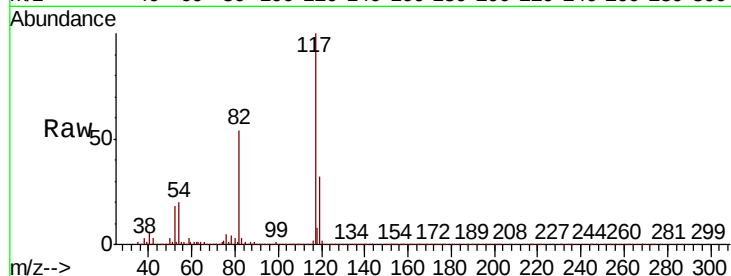




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014033.D
Acq: 16 Dec 2019 14:27

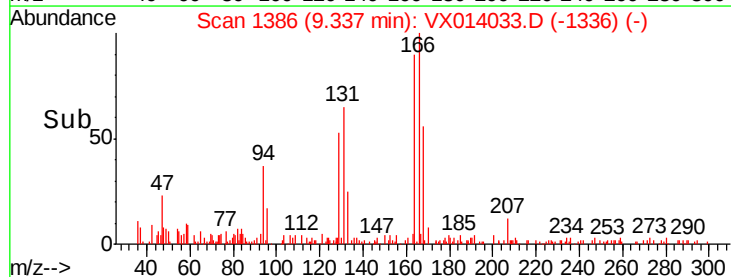
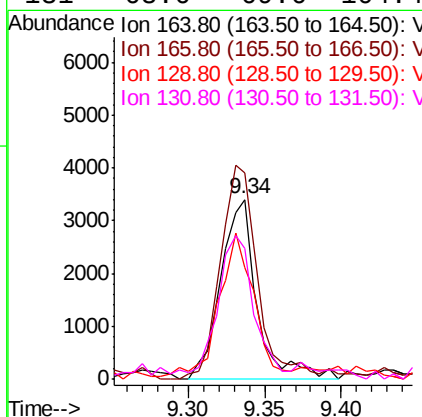
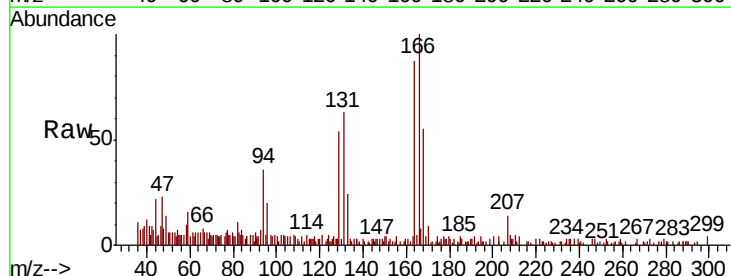
Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20191210

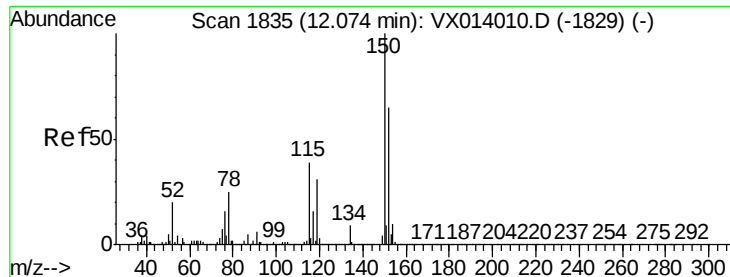
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	42.2	63.4
119	31.5	25.1	37.7



#64
Tetrachloroethene
Concen: 0.792 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX014033.D
Acq: 16 Dec 2019 14:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.7	104.0	156.0
129	57.8	72.2	108.4#
131	68.6	69.6	104.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

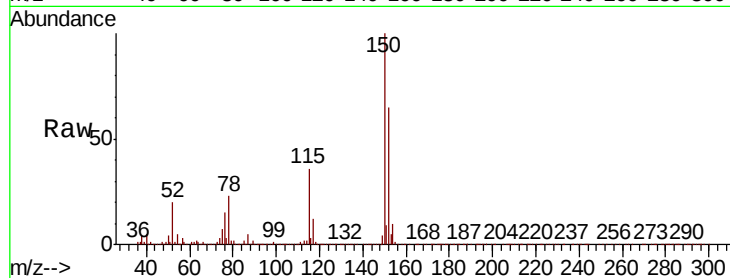
Tot Ion:152 Resp: 345032

Ion Ratio Lower Upper

152 100

115 55.1 38.3 114.9

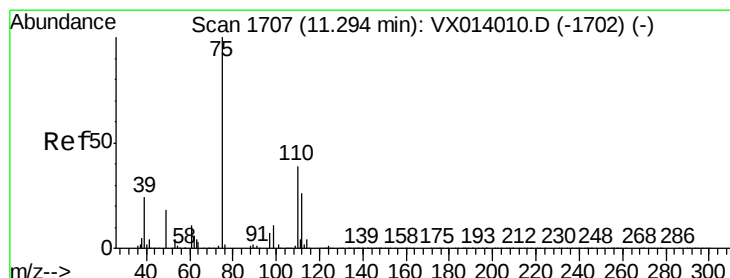
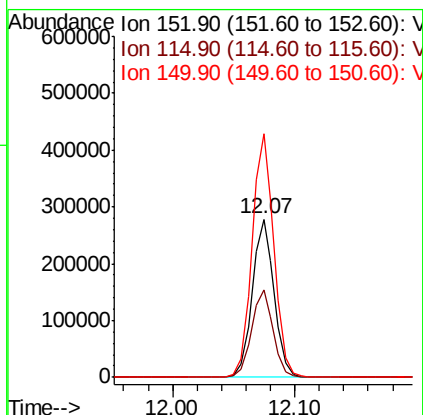
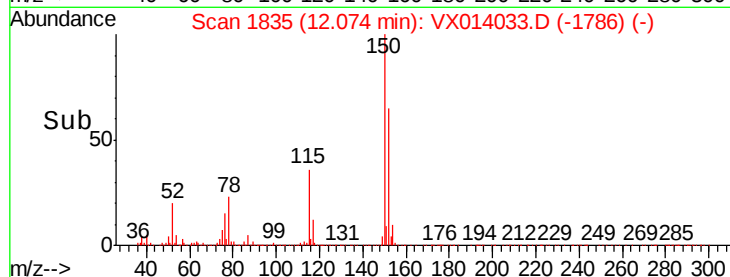
150 154.6 0.0 345.4



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: 23.246 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014033.D

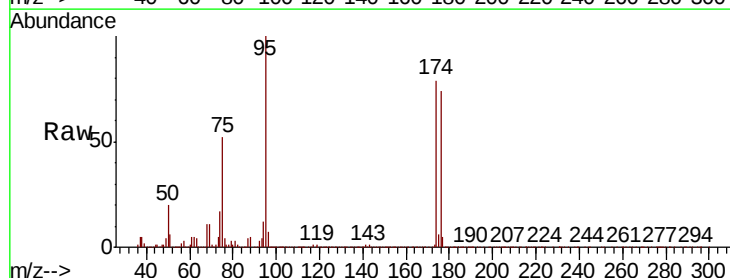
Acq: 16 Dec 2019 14:27

Tgt Ion: 75 Resp: 174124

Ion Ratio Lower Upper

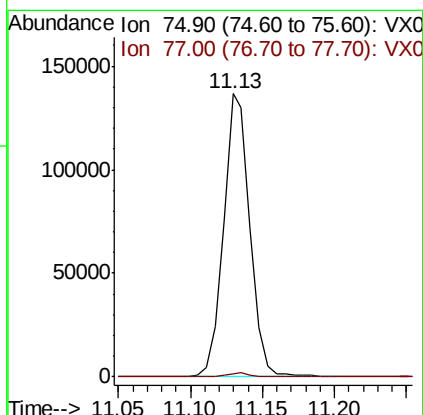
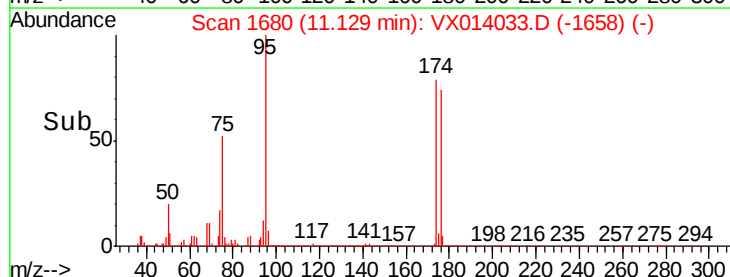
75 100

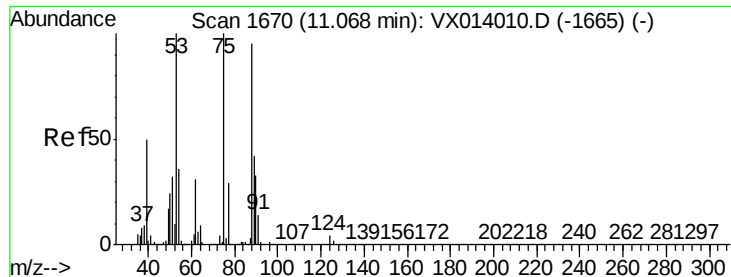
77 1.8 19.3 57.8#



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: 65.612 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014033.D

Acq: 16 Dec 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

RE120D3-20191210

Tot Ion: 75 Resp: 174124

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.1 34.6 51.8#

