

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013972.D
 Acq On : 12 Dec 2019 14:03
 Operator : JC/SP
 Sample : K6184-14DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203DL

Quant Time: Dec 13 00:51:17 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	5.64	168	557018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	851066	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	758126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329191	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	309038	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
35) Dibromofluoromethane	5.48	113	243510	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
50) Toluene-d8	8.71	98	1012648	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	11.14	95	338137	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

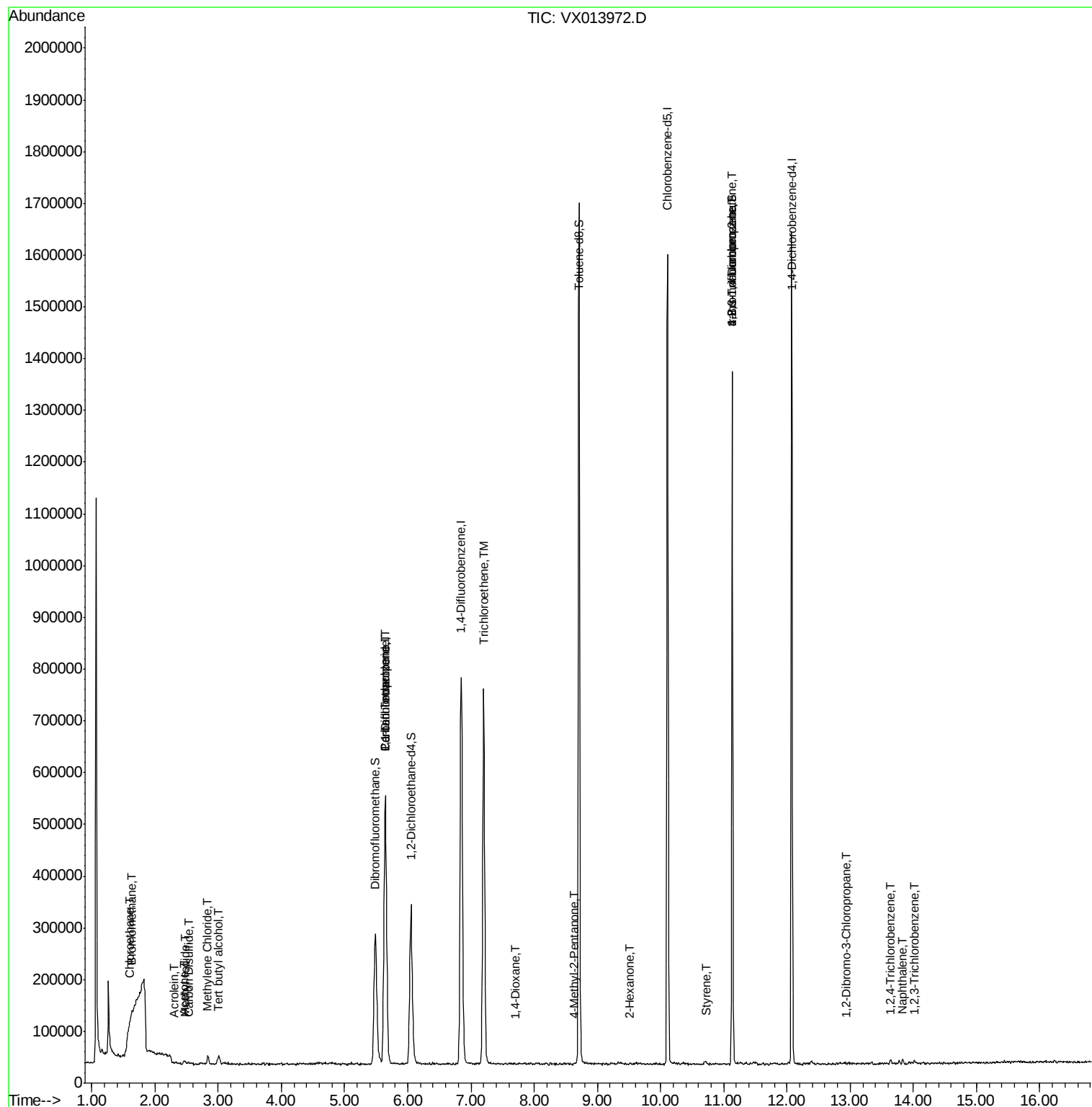
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	4969	0.945	ug/l #	72
6) Chloroethane	1.59	64	43550	9.774	ug/l #	44
10) Methyl Iodide	2.48	142	2023	0.315	ug/l	94
11) Tert butyl alcohol	3.01	59	11392	7.138	ug/l #	86
13) Acrolein	2.30	56	237	6.220	ug/l #	1
16) Acetone	2.47	43	10712	3.356	ug/l #	76
17) Carbon Disulfide	2.53	76	3258	0.216	ug/l	99
20) Methylene Chloride	2.84	84	9687	1.580	ug/l	94
36) 1,1-Dichloropropene	5.64	75	38133	4.936	ug/l #	51
38) Carbon Tetrachloride	5.64	117	49380	6.932	ug/l #	16
44) Trichloroethene	7.20	130	298070	46.158	ug/l	100
49) 1,4-Dioxane	7.71	88	330	2.127	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2879	0.321	ug/l	93
59) 2-Hexanone	9.51	43	1844	0.263	ug/l	62
70) Styrene	10.71	104	3514	0.207	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	167111	22.570	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	167111	61.748	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.93	75	392	0.225	ug/l	71
93) 1,2,4-Trichlorobenzene	13.65	180	2462	0.329	ug/l	78
95) Naphthalene	13.83	128	5996	0.269	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.02	180	2819	0.380	ug/l	89

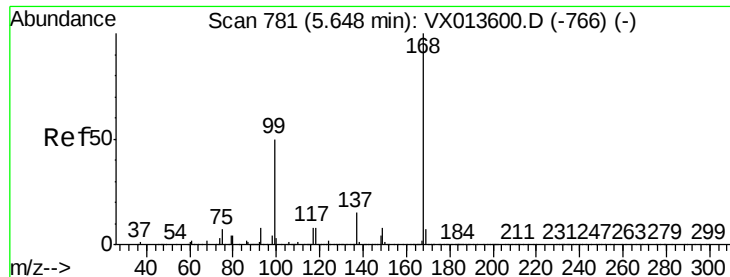
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

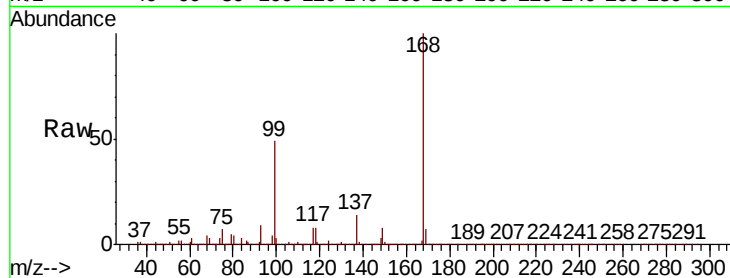
RE122D2-20191203DL

Tot Ion:168 Resp: 557018

Ion Ratio Lower Upper

168 100

99 48.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

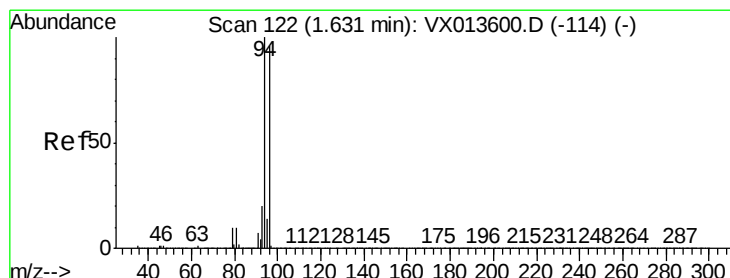
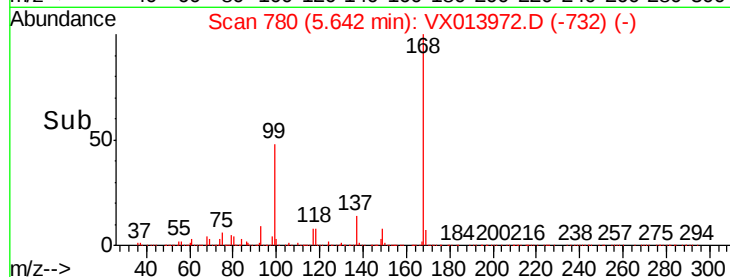
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.945 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013972.D

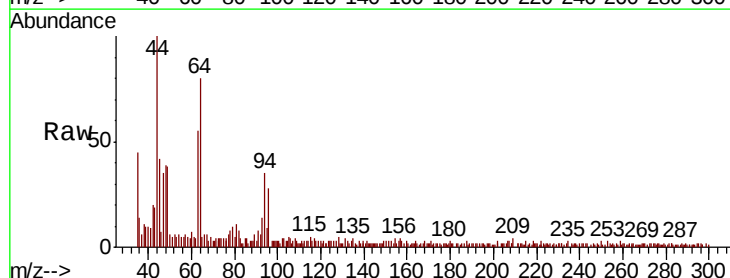
Acq: 12 Dec 2019 14:03

Tgt Ion: 94 Resp: 4969

Ion Ratio Lower Upper

94 100

96 68.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

4000

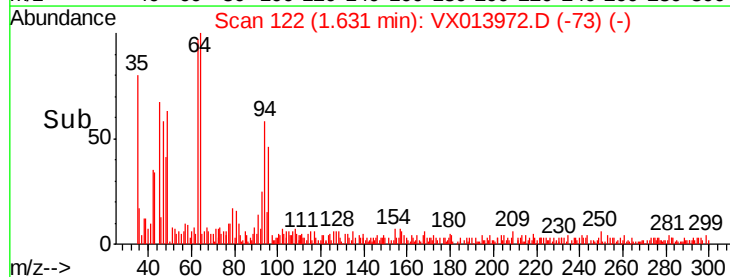
3000

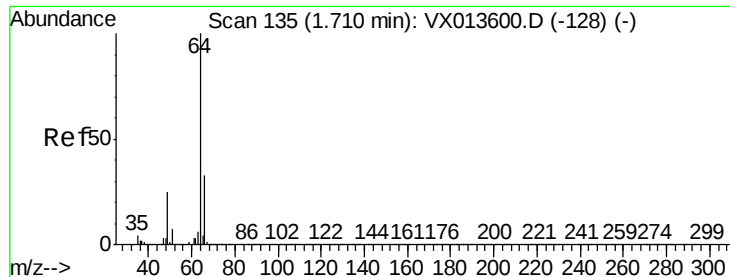
2000

1000

0

Time-->





#6

Chloroethane

Concen: 9.774 ug/l

RT: 1.59 min Scan# 116

Delta R.T. -0.12 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

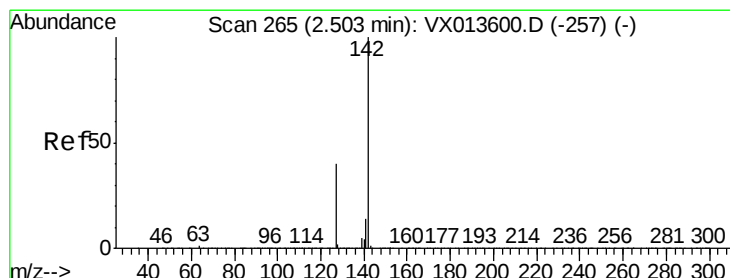
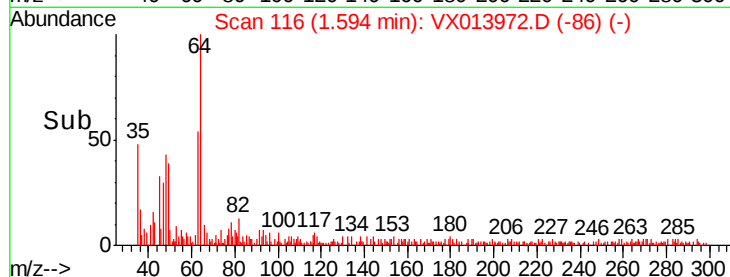
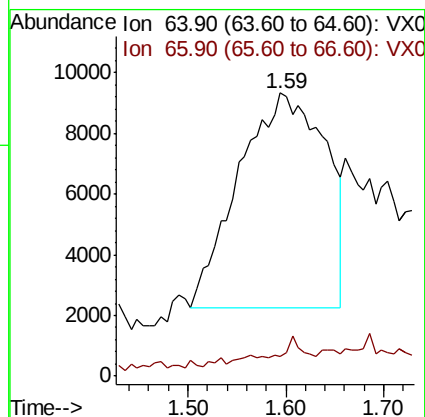
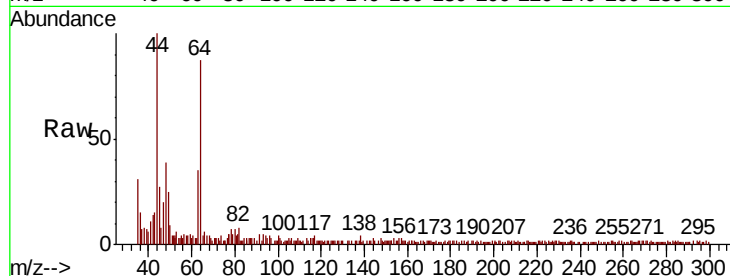
RE122D2-20191203DL

Tot Ion: 64 Resp: 43550

Ion Ratio Lower Upper

64 100

66 1.8 26.7 40.1#



#10

Methyl Iodide

Concen: 0.315 ug/l

RT: 2.48 min Scan# 261

Delta R.T. -0.02 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

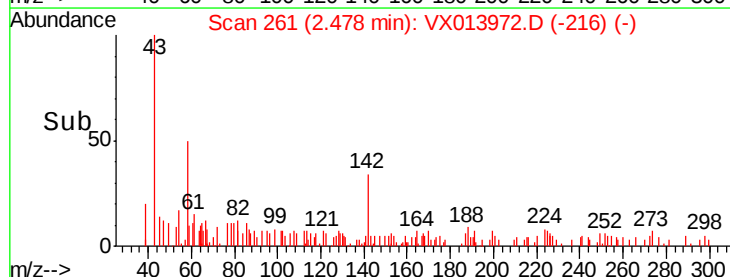
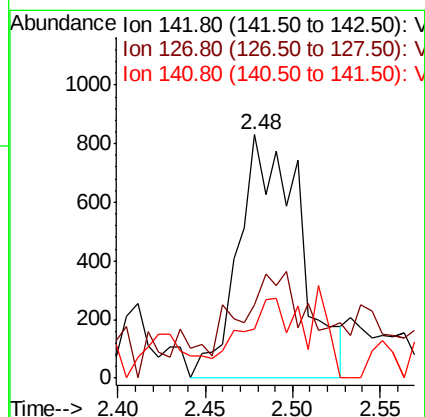
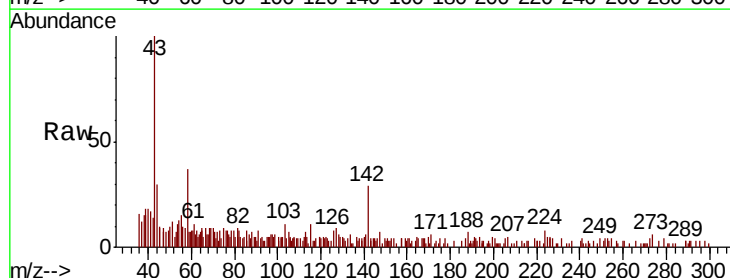
Tgt Ion: 142 Resp: 2023

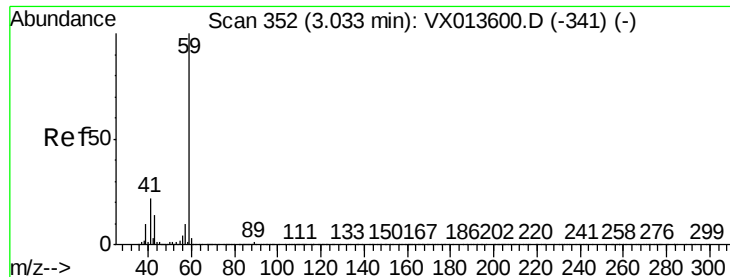
Ion Ratio Lower Upper

142 100

127 33.5 31.0 46.4

141 14.7 11.6 17.4

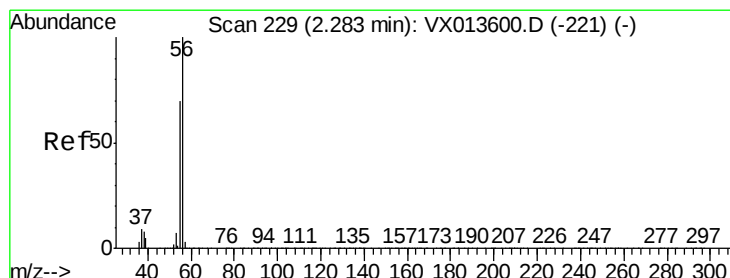
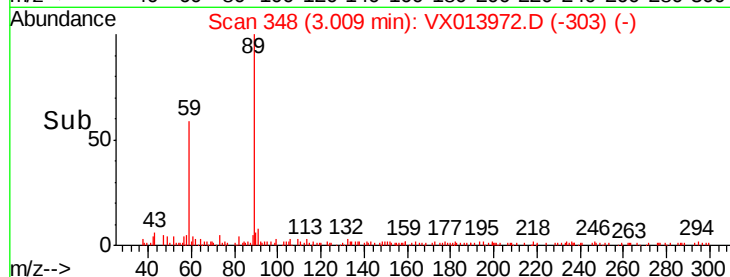
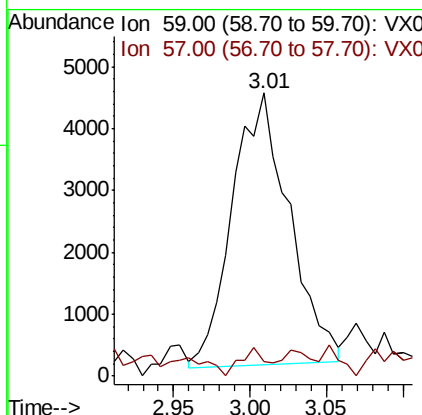
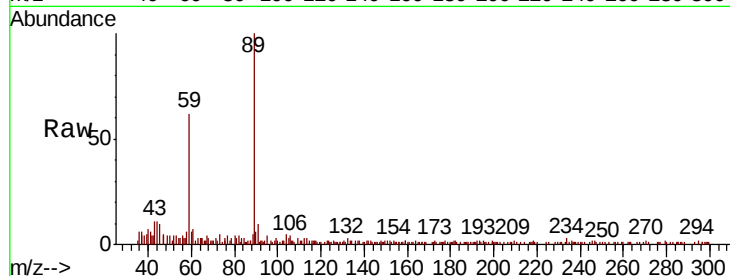




#11
Tert butyl alcohol
Concen: 7.138 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

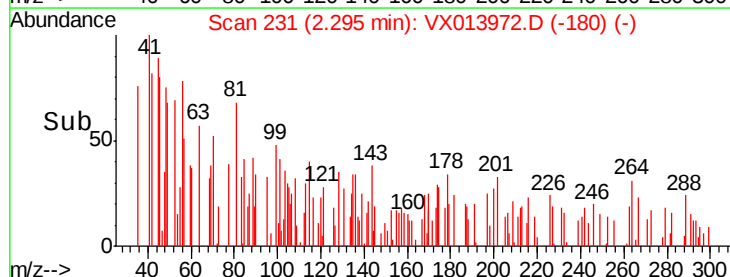
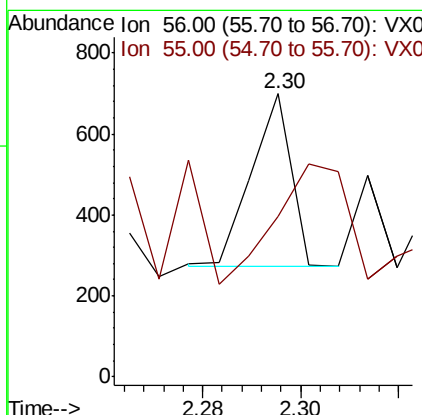
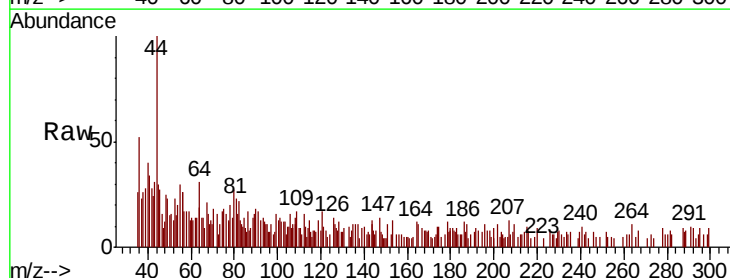
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

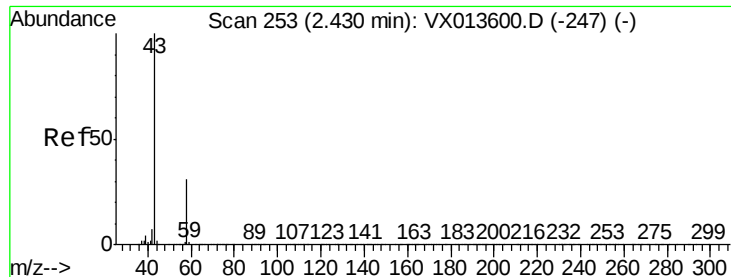
Tot Ion: 59 Resp: 11392
Ion Ratio Lower Upper
59 100
57 4.6 7.8 11.6#



#13
Acrolein
Concen: 6.220 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 158.6 56.2 84.4#





#16

Acetone

Concen: 3.356 ug/l

RT: 2.47 min Scan# 259

Delta R.T. 0.04 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

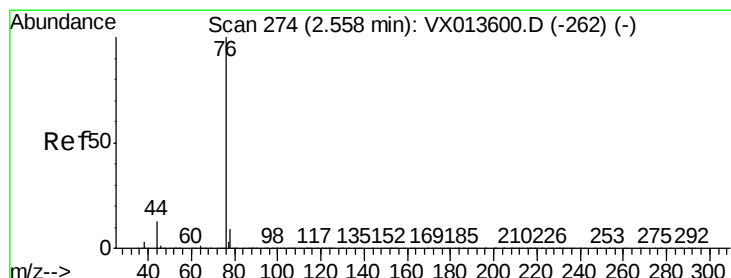
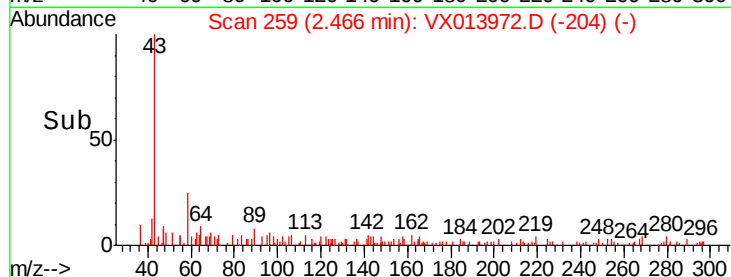
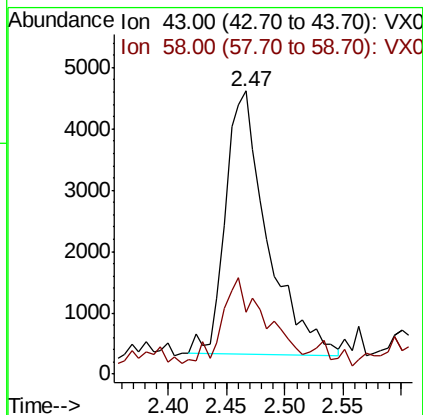
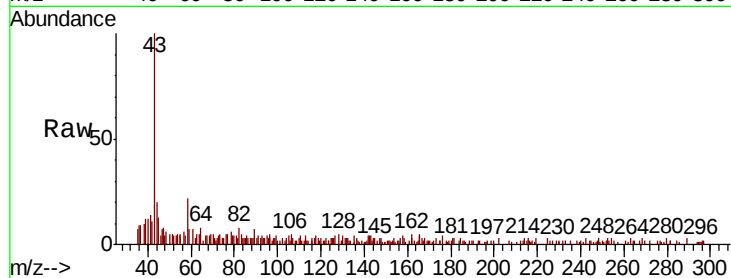
RE122D2-20191203DL

Tot Ion: 43 Resp: 10712

Ion Ratio Lower Upper

43 100

58 17.5 24.6 36.8#



#17

Carbon Disulfide

Concen: 0.216 ug/l

RT: 2.53 min Scan# 270

Delta R.T. -0.02 min

Lab File: VX013972.D

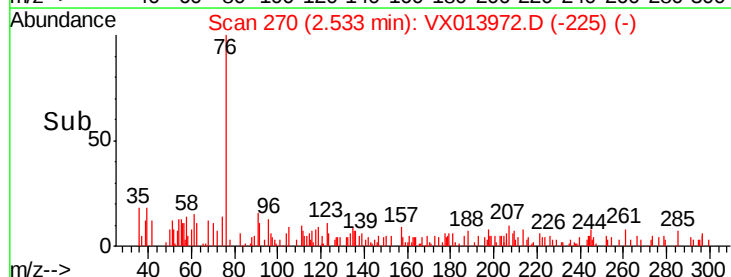
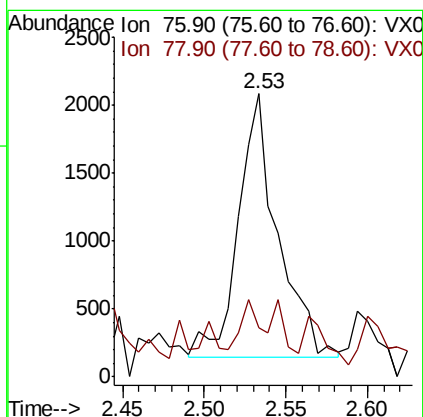
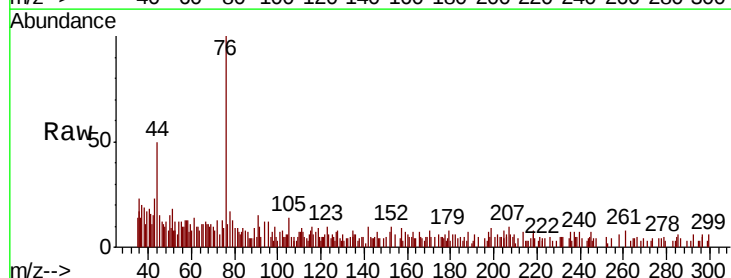
Acq: 12 Dec 2019 14:03

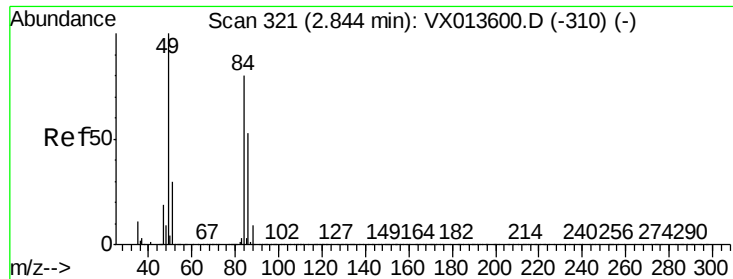
Tgt Ion: 76 Resp: 3258

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8

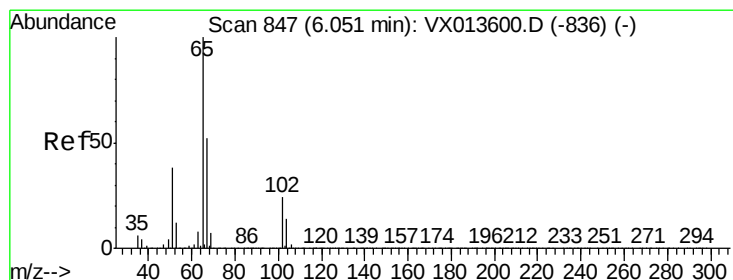
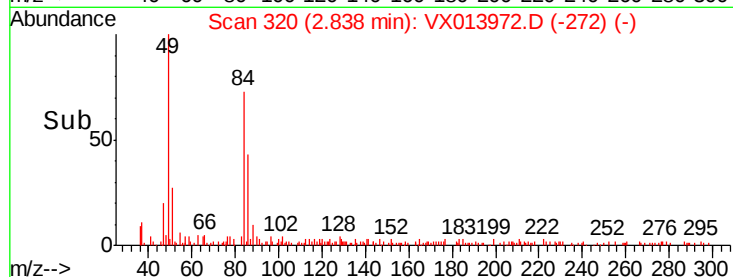
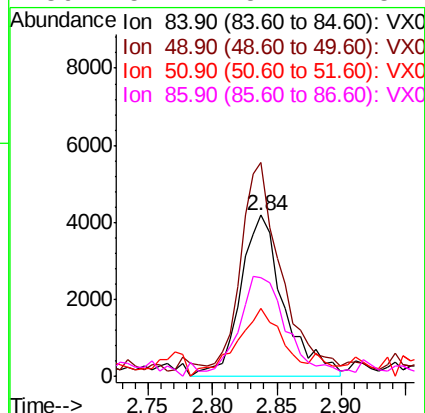
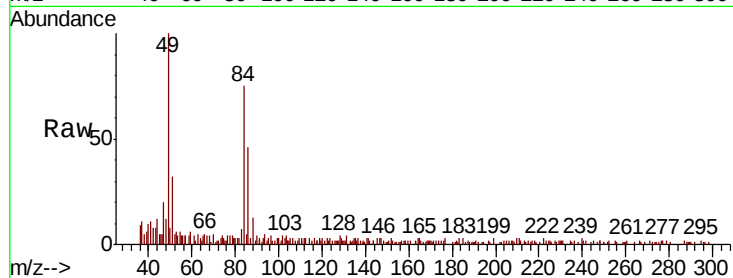




#20
Methvlene Chloride
Concen: 1.580 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

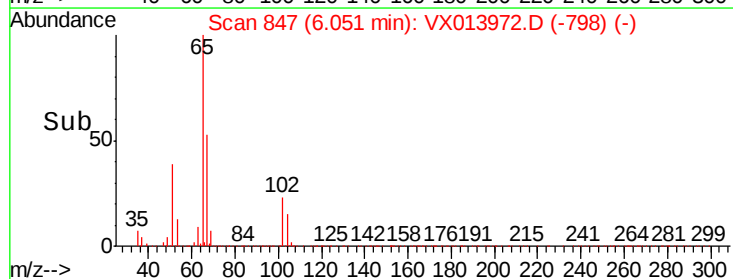
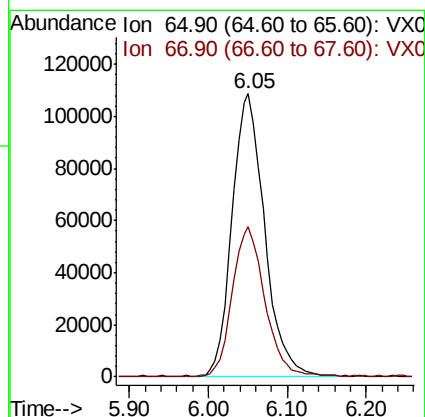
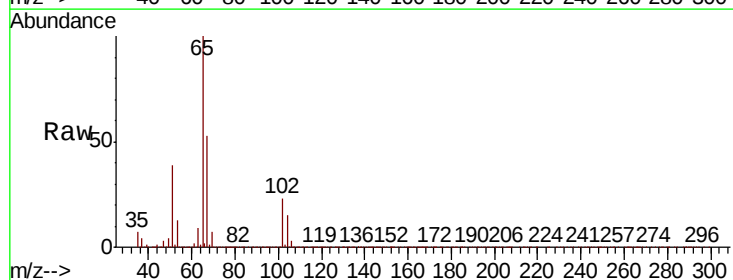
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

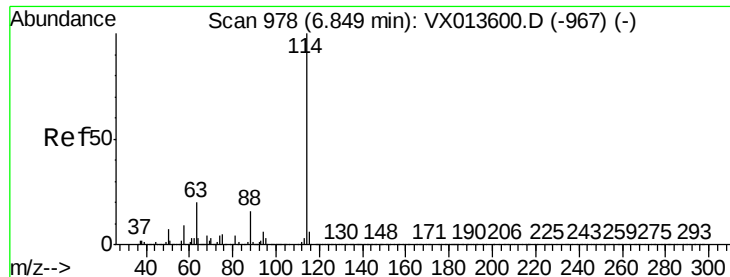
Tot Ion: 84 Resp: 9687
Ion Ratio Lower Upper
84 100
49 126.7 99.7 149.5
51 42.4 29.9 44.9
86 54.2 52.2 78.4



#33
1,2-Dichloroethane-d4
Concen: 47.796 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

Tgt Ion: 65 Resp: 309038
Ion Ratio Lower Upper
65 100
67 53.1 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: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

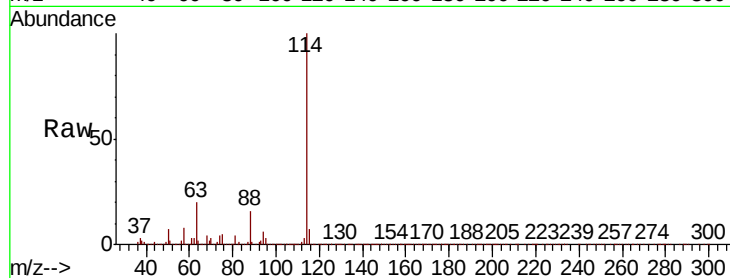
Tot Ion:114 Resp: 851066

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

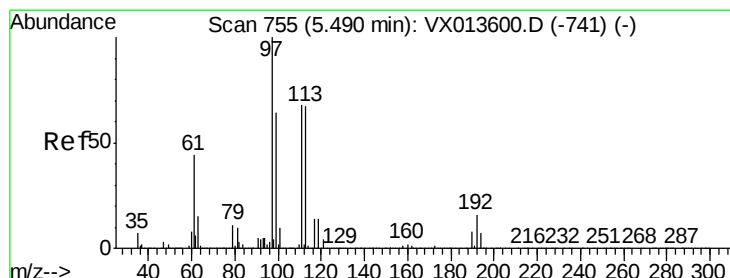
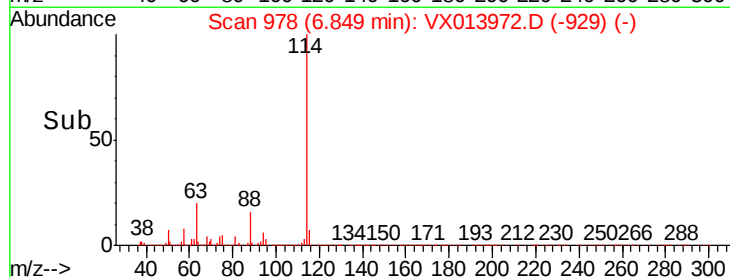
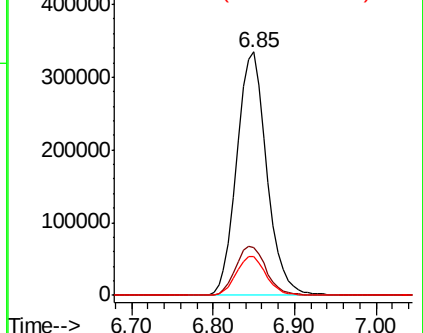
88 15.8 0.0 31.4



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: 46.282 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

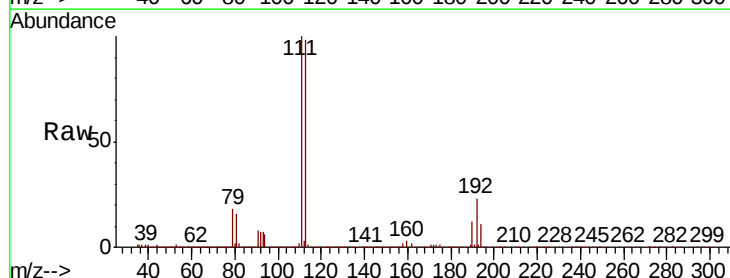
Tgt Ion:113 Resp: 243510

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

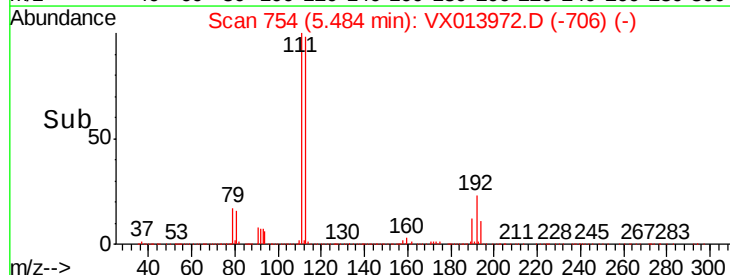
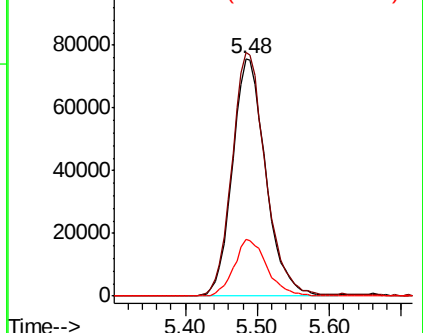
192 23.8 19.2 28.8

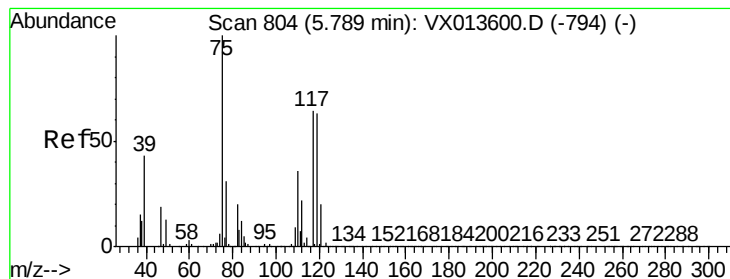


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.936 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

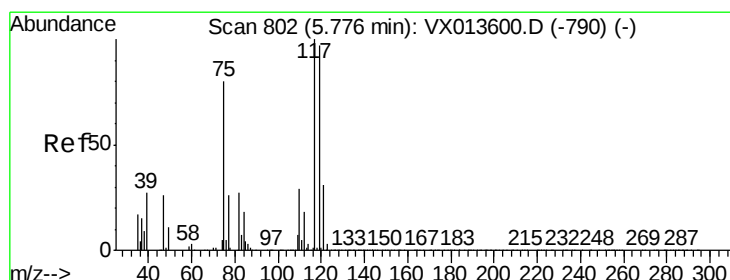
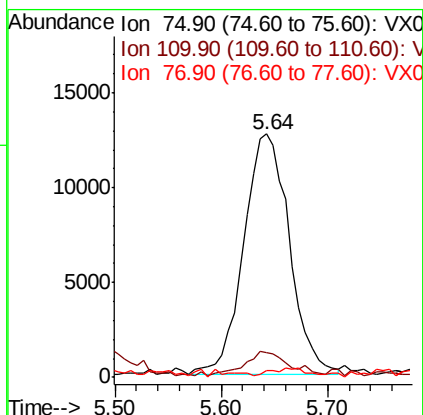
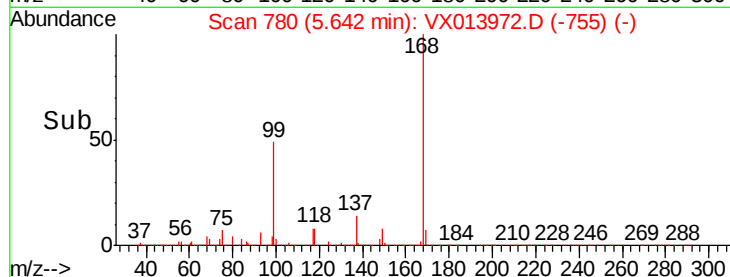
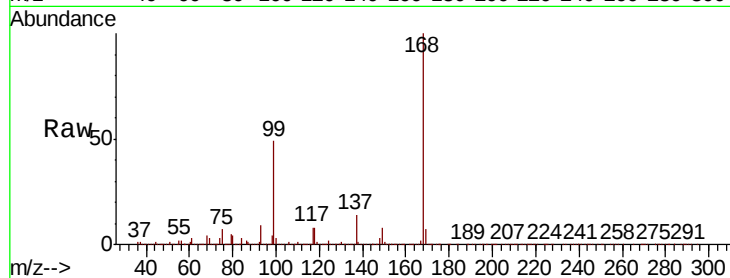
Tot Ion: 75 Resp: 38133

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

77 0.8 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.932 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.14 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

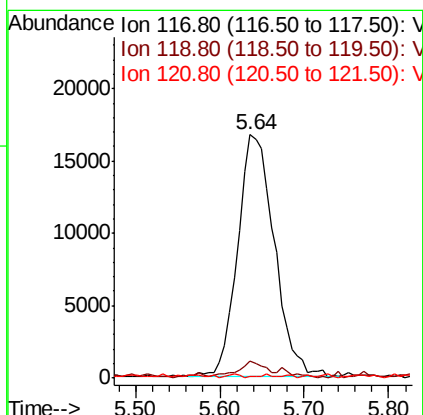
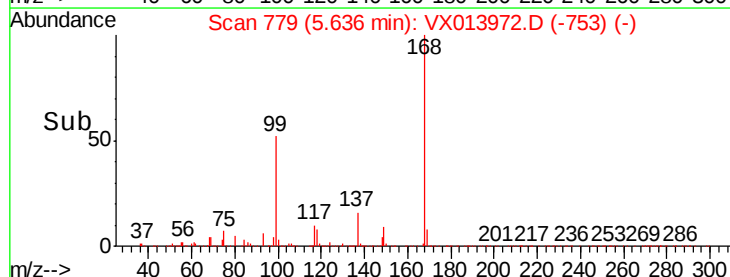
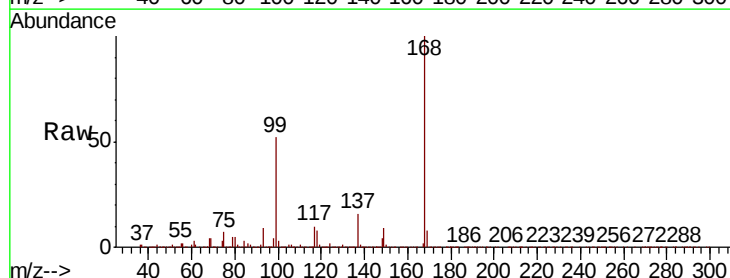
Tgt Ion: 117 Resp: 49380

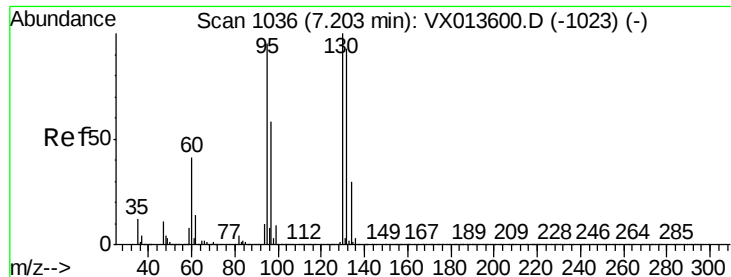
Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

121 0.3 25.0 37.6#





#44

Trichloroethene

Concen: 46.158 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

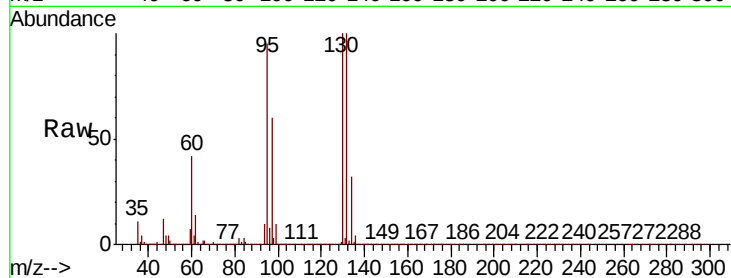
RE122D2-20191203DL

Tot Ion:130 Resp: 298070

Ion Ratio Lower Upper

130 100

95 95.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

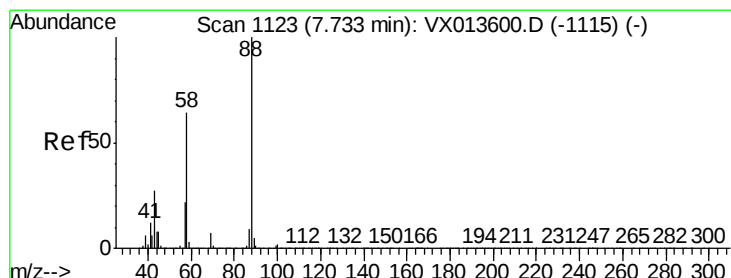
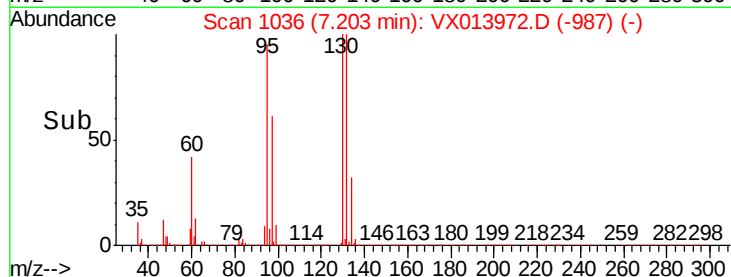
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 2.127 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

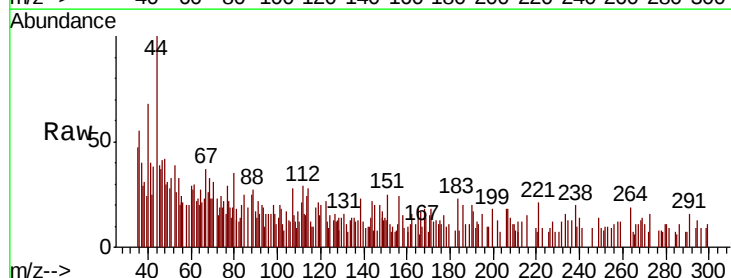
Tgt Ion: 88 Resp: 330

Ion Ratio Lower Upper

88 100

43 207.3 25.8 38.6#

58 32.4 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

1000

800

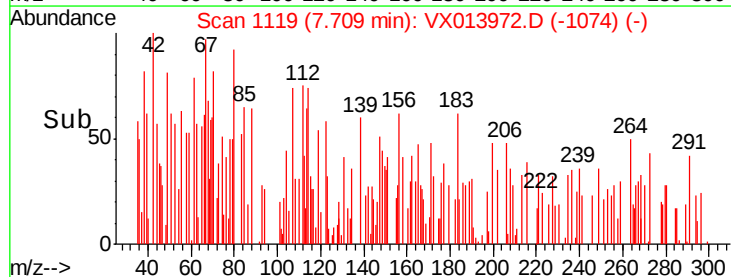
600

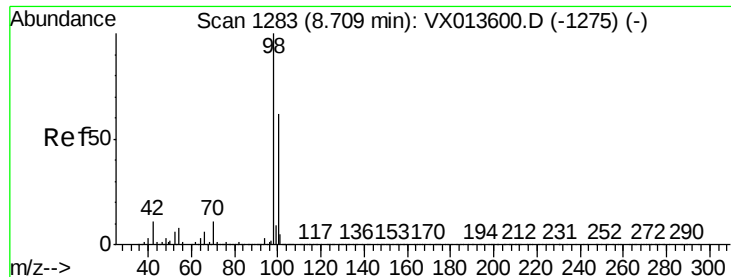
400

200

0

Time-->

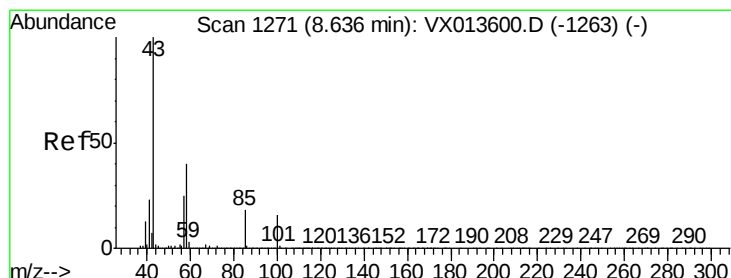
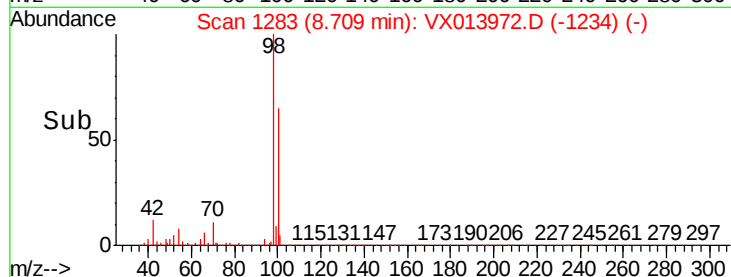
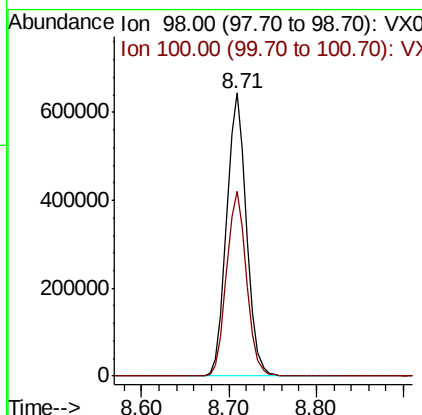
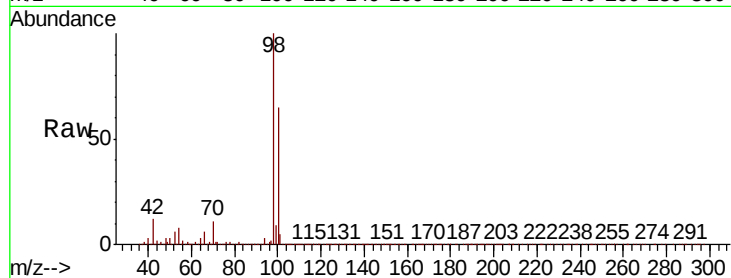




#50
Toluene-d8
Concen: 49.400 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

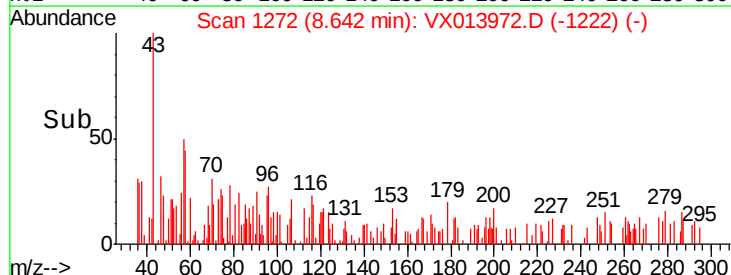
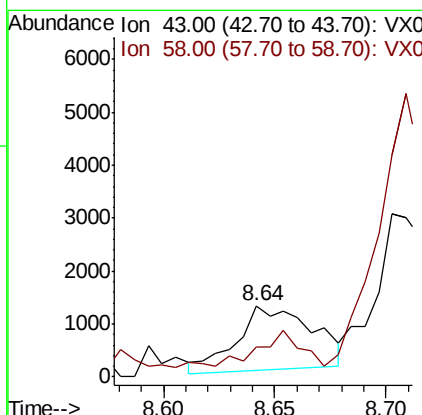
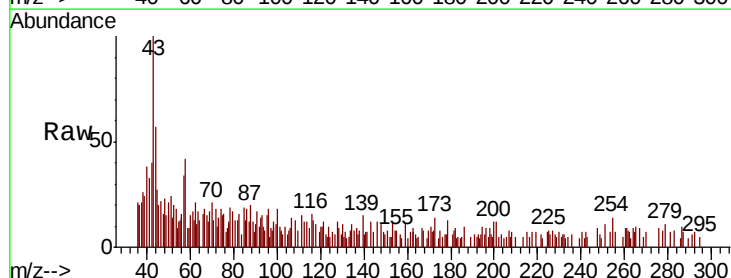
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

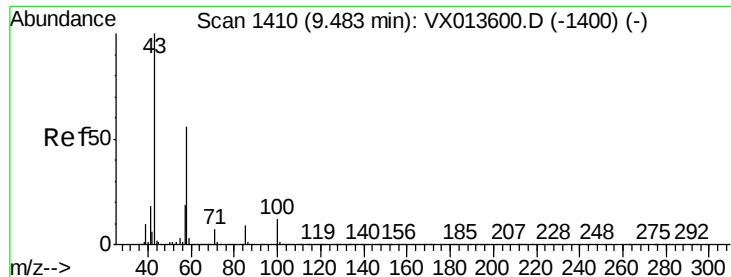
Tot Ion: 98 Resp: 1012648
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.321 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

Tgt Ion: 43 Resp: 2879
Ion Ratio Lower Upper
43 100
58 35.8 32.1 48.1

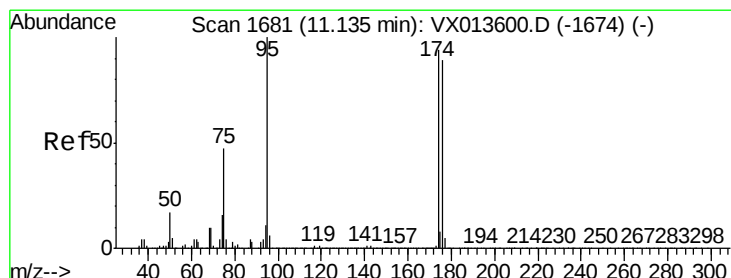
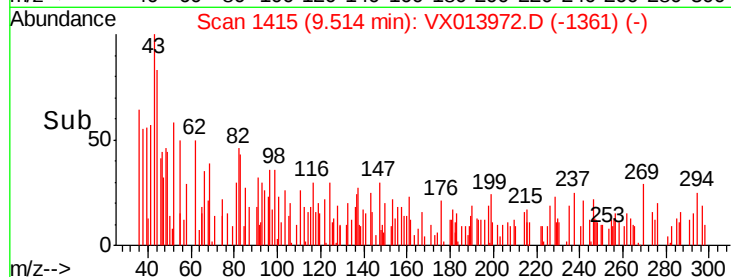
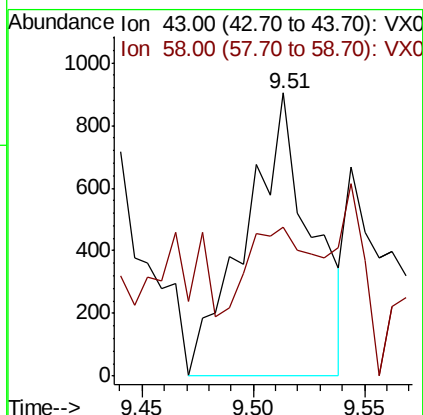
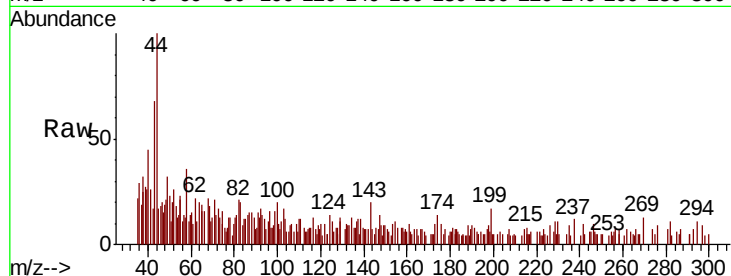




#59
2-Hexanone
Concen: 0.263 ug/l
RT: 9.51 min Scan# 1415
Delta R.T. 0.03 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

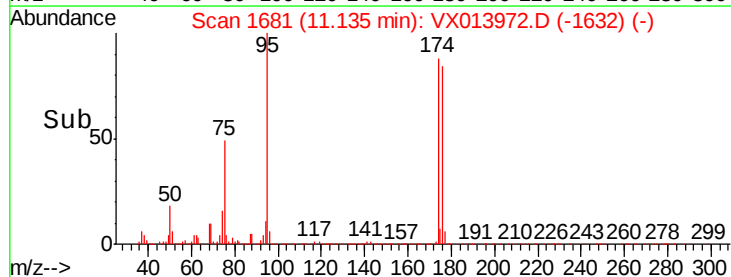
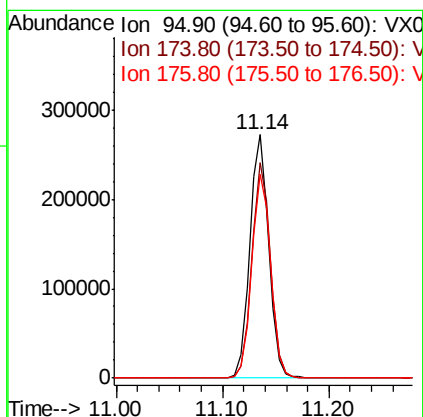
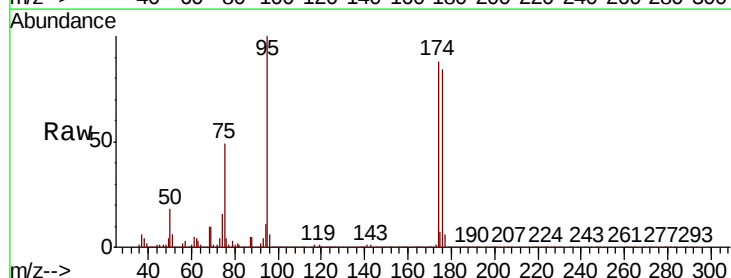
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

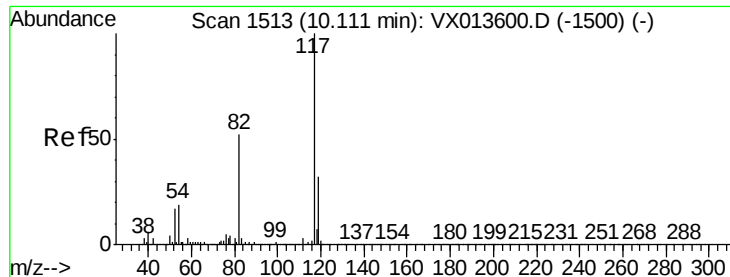
Tot Ion: 43 Resp: 1844
Ion Ratio Lower Upper
43 100
58 28.6 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 45.744 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

Tgt Ion: 95 Resp: 338137
Ion Ratio Lower Upper
95 100
174 87.9 0.0 180.0
176 84.7 0.0 173.6

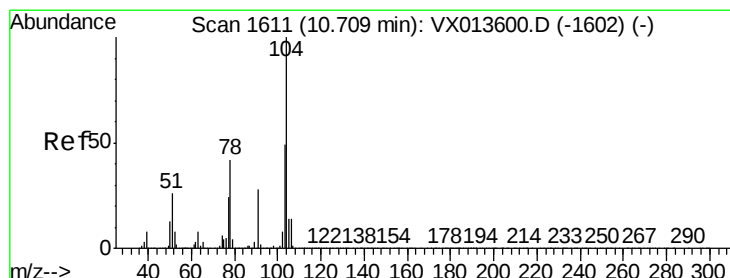
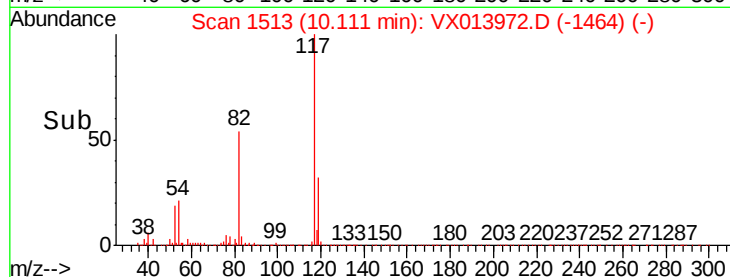
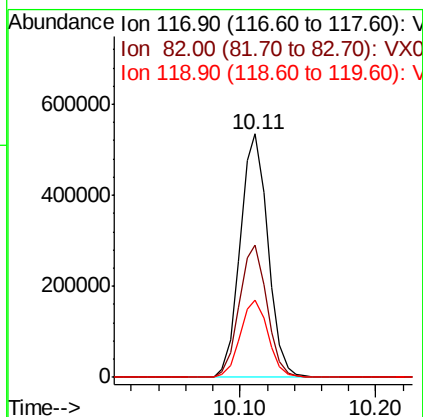
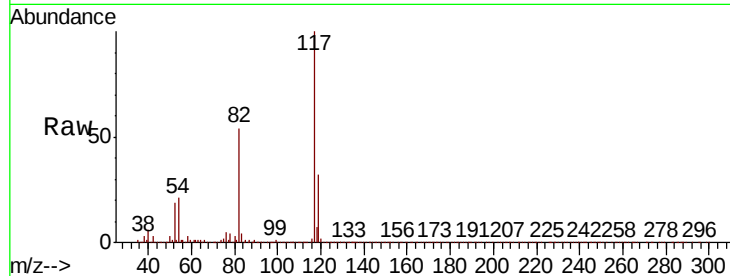




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

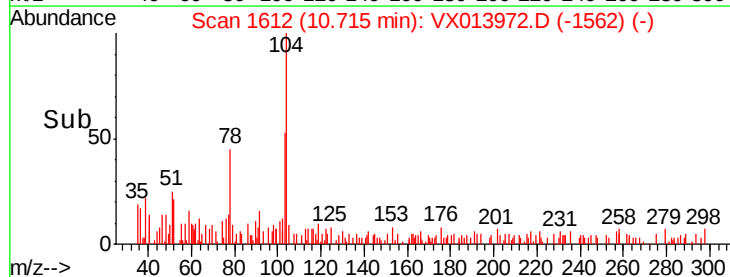
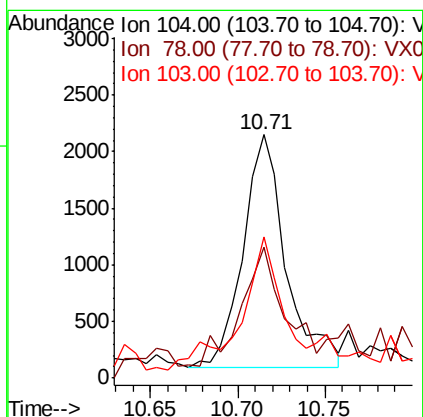
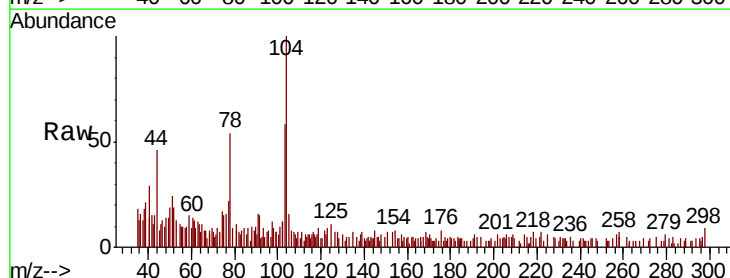
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203DL

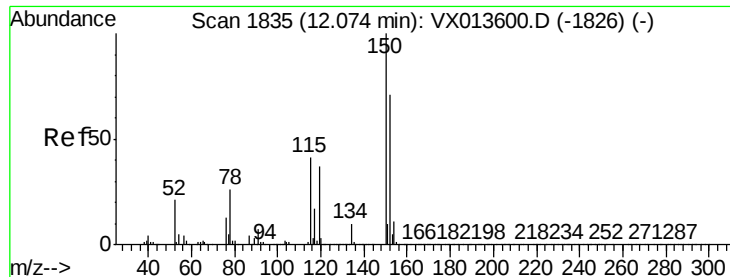
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	41.8	62.8
119	31.9	25.8	38.8



#70
Styrene
Concen: 0.207 ug/l
RT: 10.71 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VX013972.D
Acq: 12 Dec 2019 14:03

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.1	38.5	57.7
103	53.9	43.7	65.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

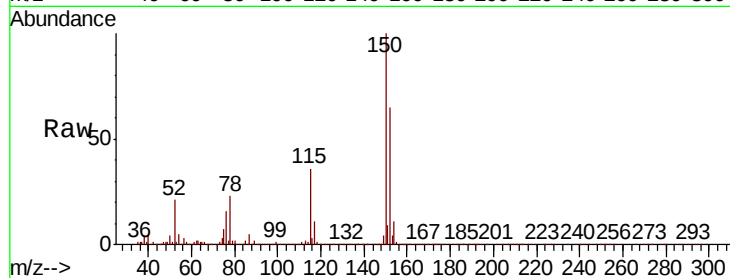
Tot Ion:152 Resp: 329191

Ion Ratio Lower Upper

152 100

115 56.3 38.4 115.1

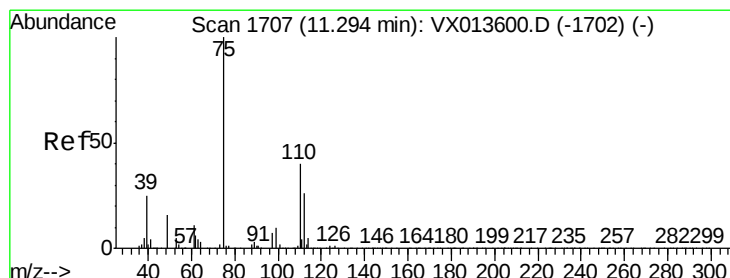
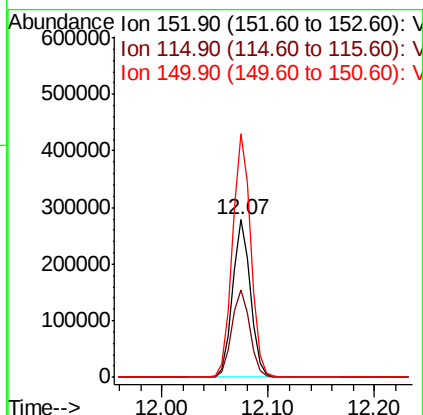
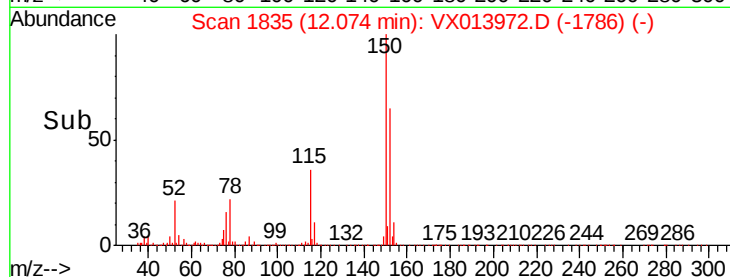
150 157.3 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.570 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013972.D

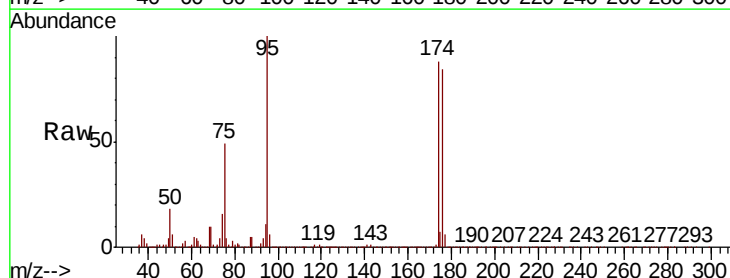
Acq: 12 Dec 2019 14:03

Tgt Ion: 75 Resp: 167111

Ion Ratio Lower Upper

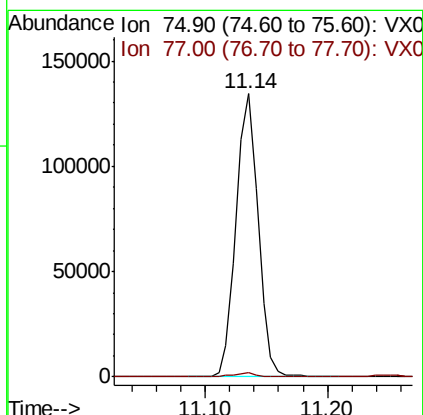
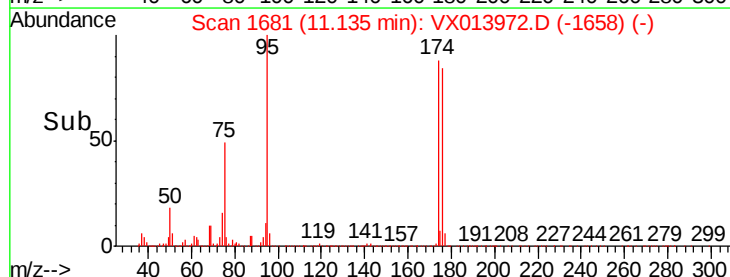
75 100

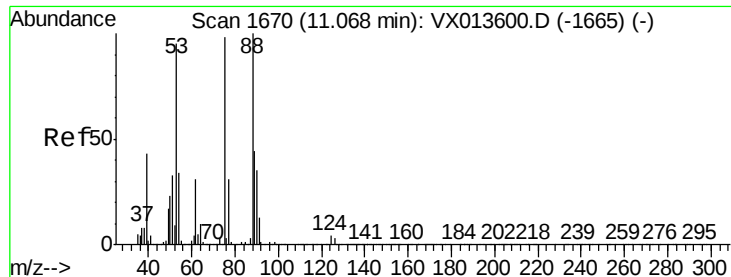
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.748 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203DL

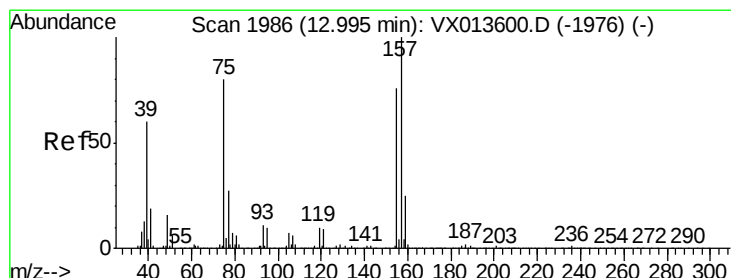
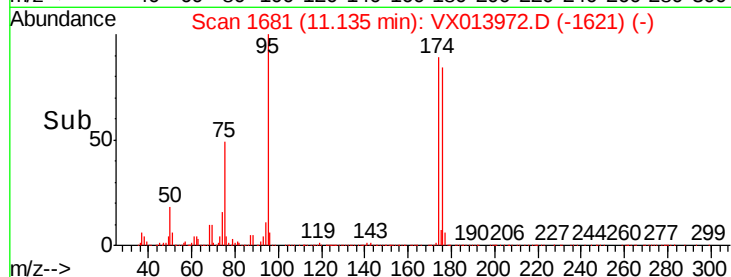
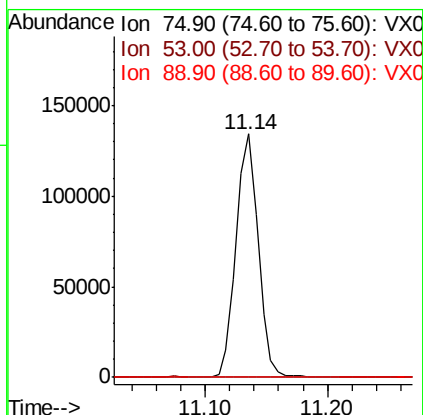
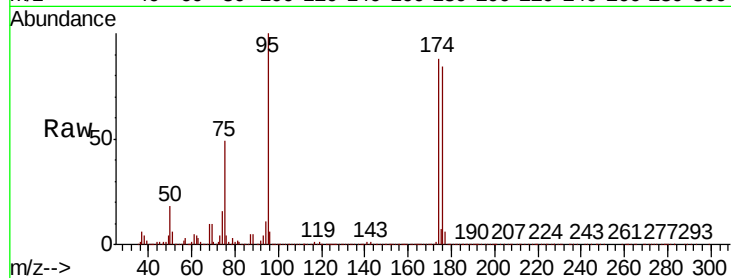
Tot Ion: 75 Resp: 167111

Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.2#

89 0.2 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.225 ug/l

RT: 12.93 min Scan# 1975

Delta R.T. -0.07 min

Lab File: VX013972.D

Acq: 12 Dec 2019 14:03

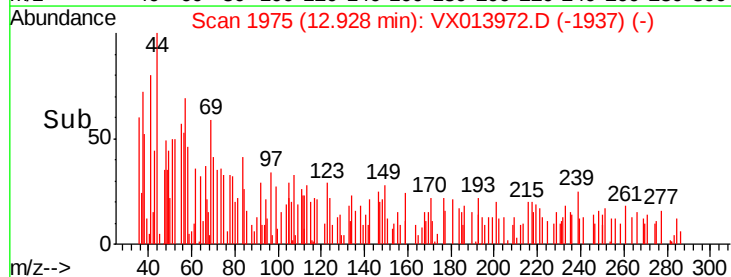
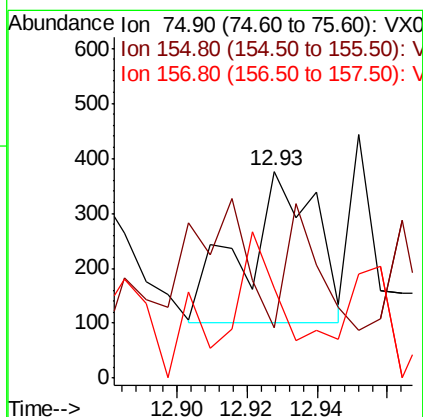
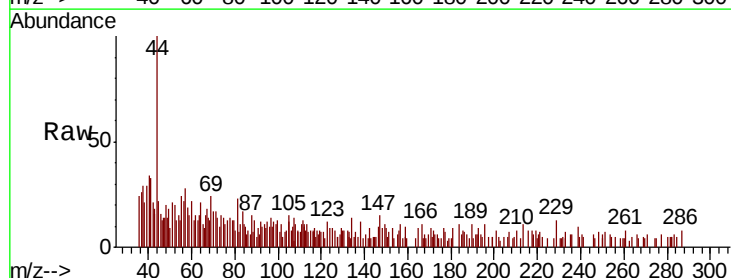
Tgt Ion: 75 Resp: 392

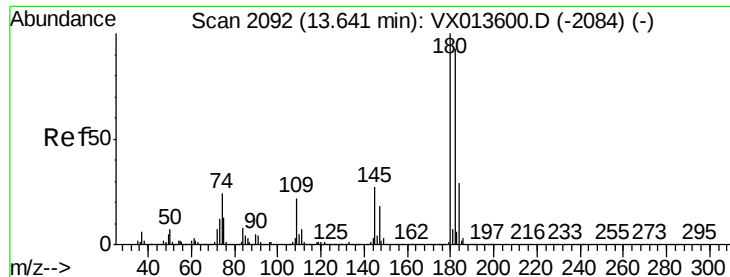
Ion Ratio Lower Upper

75 100

155 68.9 47.6 142.8

157 89.0 62.1 186.2

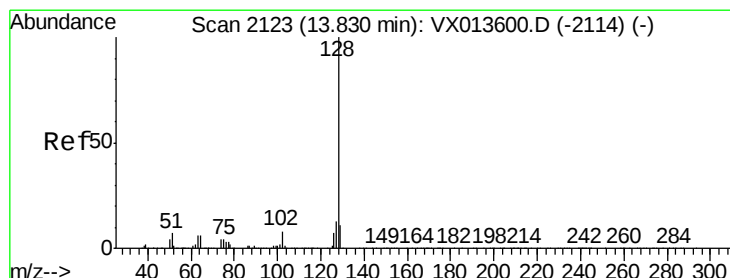
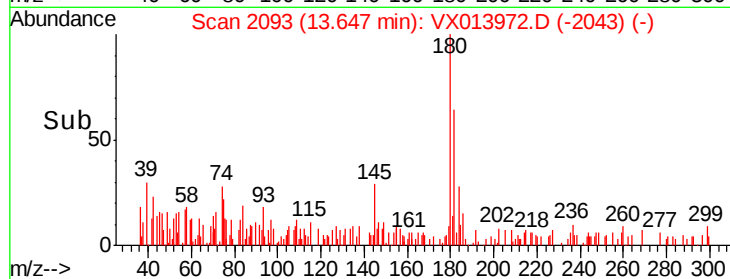
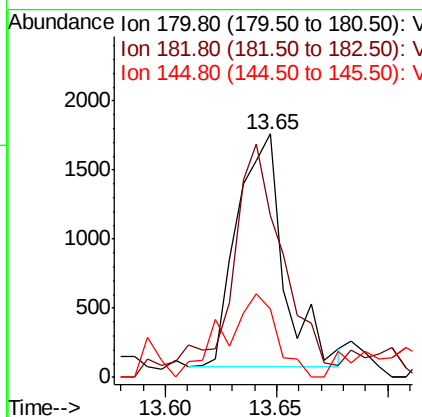
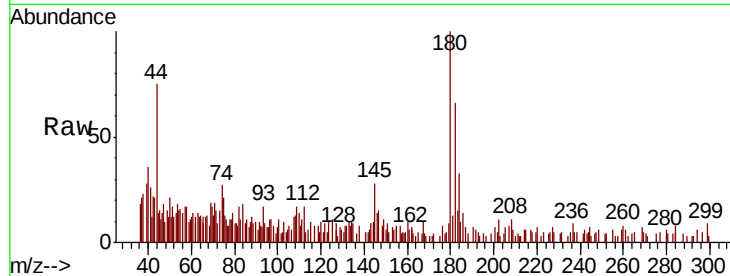




#93
 1,2,4-Trichlorobenzene
 Concen: 0.329 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX013972.D
 Acq: 12 Dec 2019 14:03

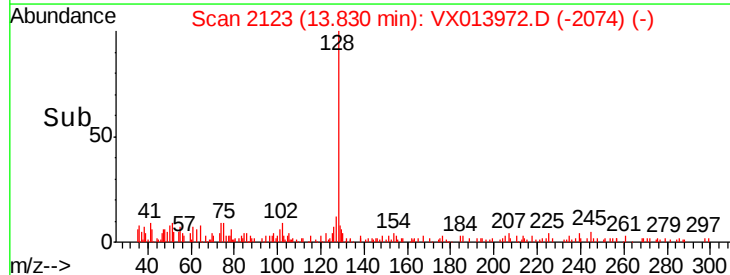
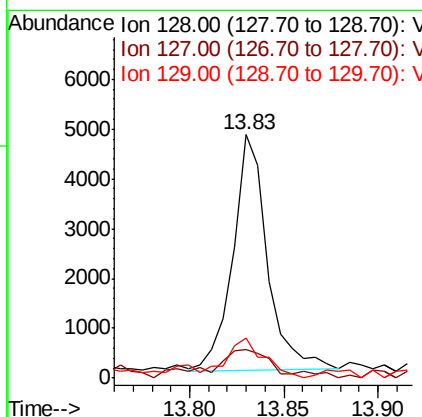
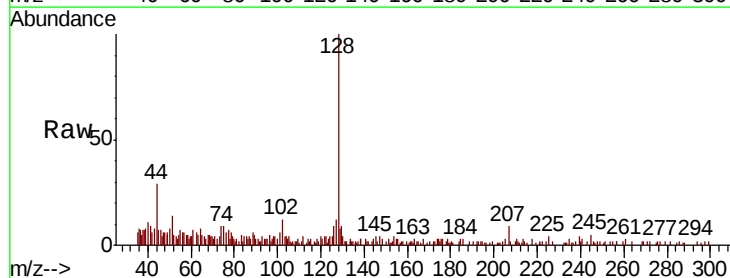
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203DL

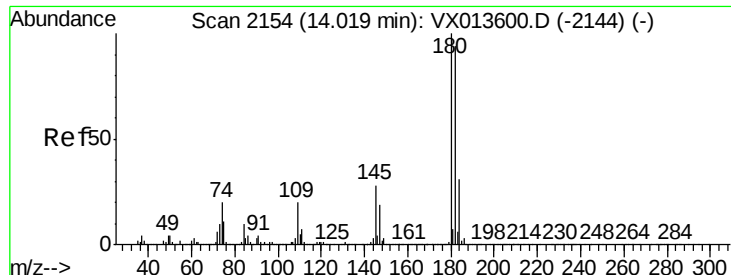
Tot Ion:180 Resp: 2462
 Ion Ratio Lower Upper
 180 100
 182 114.7 47.2 141.6
 145 40.3 13.8 41.4



#95
 Naphthalene
 Concen: 0.269 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX013972.D
 Acq: 12 Dec 2019 14:03

Tgt Ion:128 Resp: 5996
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.3 15.5
 129 18.5 8.7 13.1#

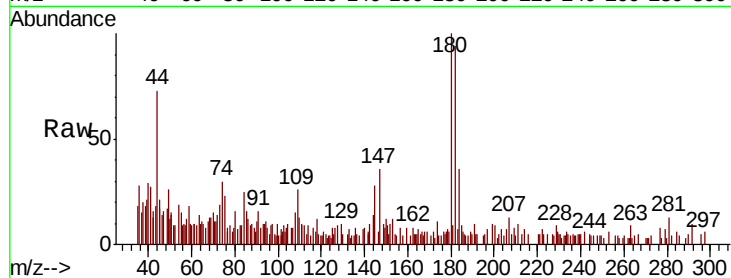




#96
 1,2,3-Trichlorobenzene
 Concen: 0.380 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VX013972.D
 Acq: 12 Dec 2019 14:03

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.2	47.6	142.8
145	36.1	15.0	45.0



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

