

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013851.D
 Acq On : 09 Dec 2019 15:00
 Operator : JC/SP
 Sample : K6184-16RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20191203RE

Quant Time: Dec 12 08:09:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	615047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	938360	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	826869	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	349973	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	337939	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
35) Dibromofluoromethane	5.49	113	280848	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
50) Toluene-d8	8.71	98	1105112	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	11.14	95	360753	44.26	ug/l	0.00
Spiked Amount			Recovery	=	88.52%	

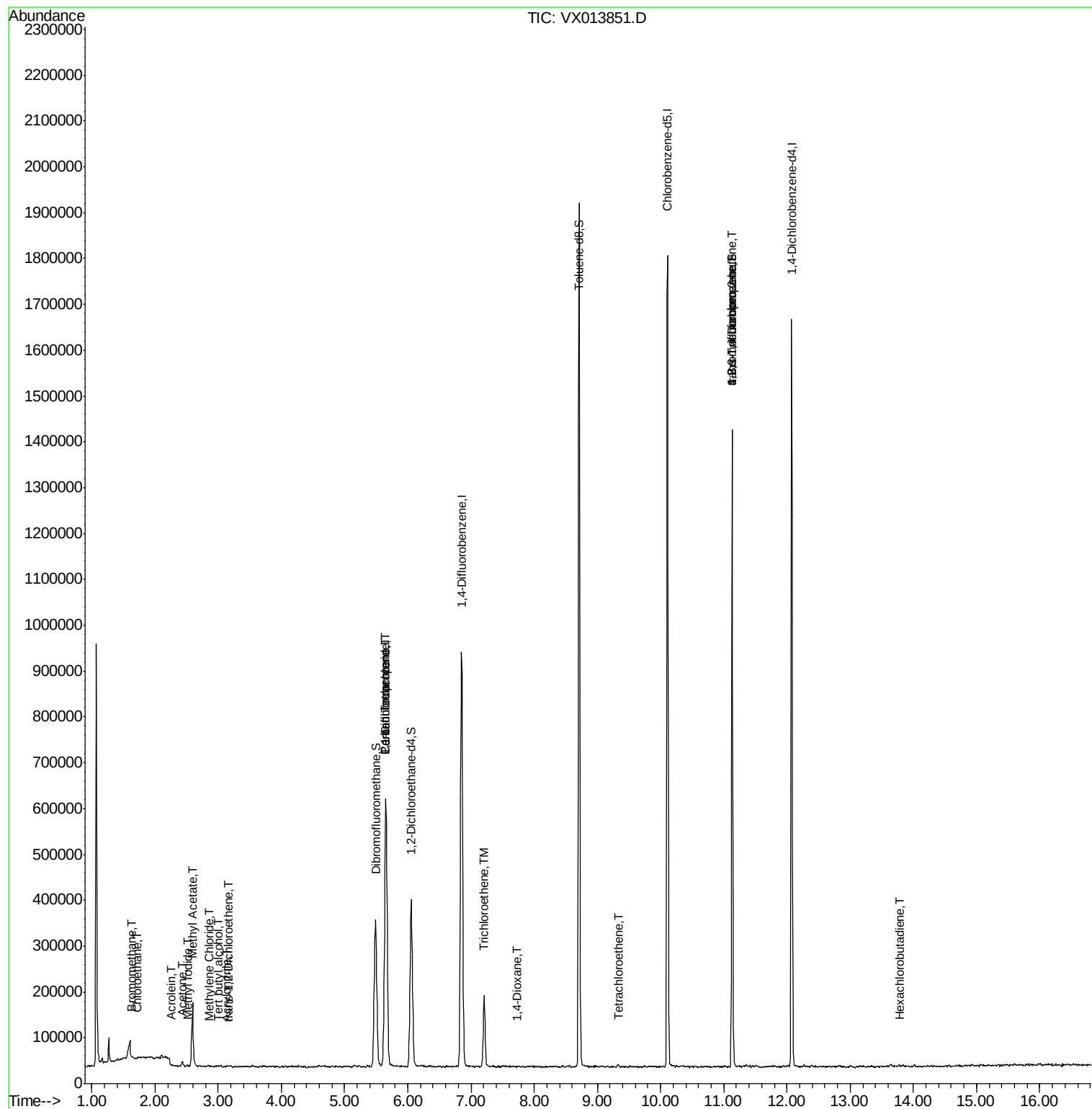
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1593	0.274	ug/l	93
6) Chloroethane	1.72	64	1181	0.240	ug/l #	41
10) Methyl Iodide	2.51	142	1968	0.277	ug/l #	84
11) Tert butyl alcohol	3.01	59	2041	1.158	ug/l #	82
13) Acrolein	2.26	56	664	6.554	ug/l #	54
15) Acrylonitrile	3.13	53	1003	0.276	ug/l #	32
16) Acetone	2.43	43	13825	3.922	ug/l #	84
18) Methyl Acetate	2.59	43	36409	3.709	ug/l #	53
20) Methylene Chloride	2.86	84	1565	0.231	ug/l #	63
21) trans-1,2-Dichloroethene	3.16	96	1369	0.215	ug/l #	44
36) 1,1-Dichloropropene	5.64	75	42470	4.986	ug/l #	41
38) Carbon Tetrachloride	5.65	117	53434	6.803	ug/l #	16
44) Trichloroethene	7.21	130	63328	8.894	ug/l	91
49) 1,4-Dioxane	7.73	88	1520	8.884	ug/l #	56
64) Tetrachloroethene	9.34	164	1412	0.229	ug/l #	67
76) 1,2,3-Trichloropropane	11.14	75	178709	22.703	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	178709	62.112	ug/l #	11
94) Hexachlorobutadiene	13.78	225	1054	0.276	ug/l	69

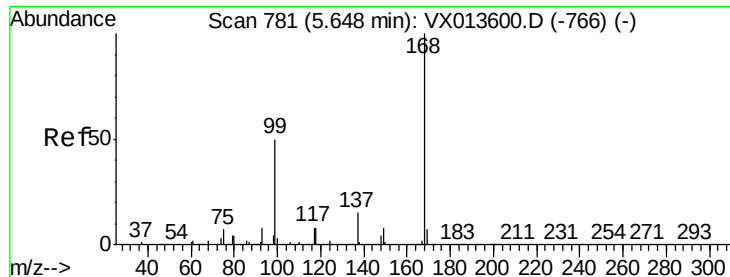
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

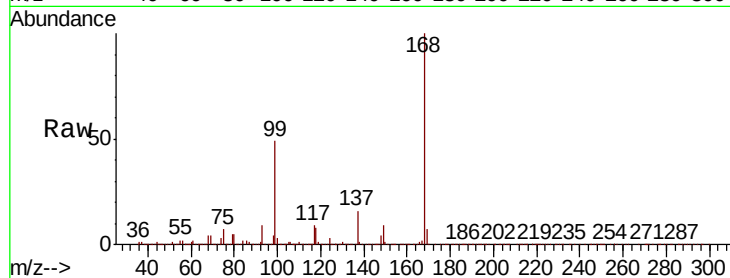
DUP01-20191203RE

Tot Ion:168 Resp: 615047

Ion Ratio Lower Upper

168 100

99 49.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

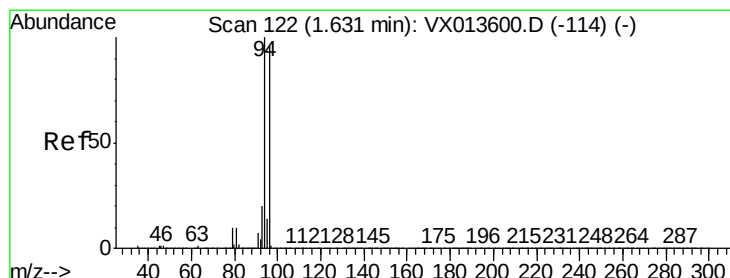
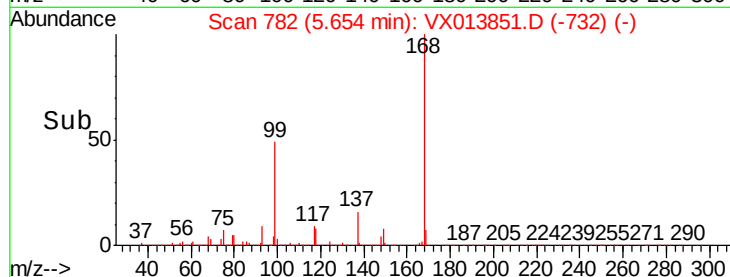
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013851.D

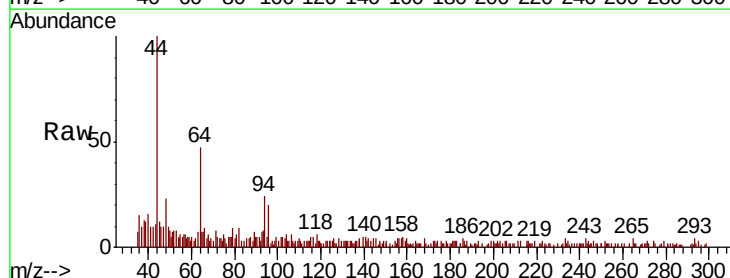
Acq: 09 Dec 2019 15:00

Tgt Ion: 94 Resp: 1593

Ion Ratio Lower Upper

94 100

96 89.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

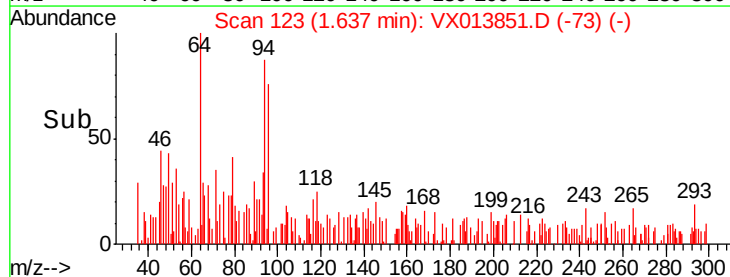
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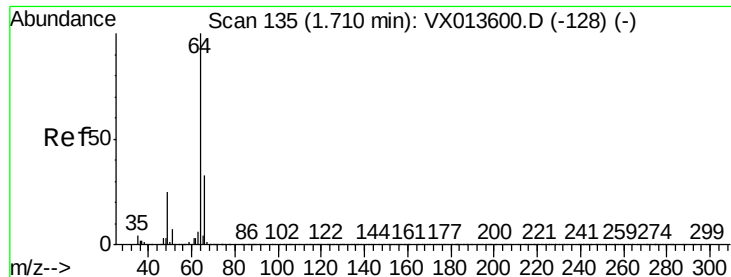
500

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.240 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

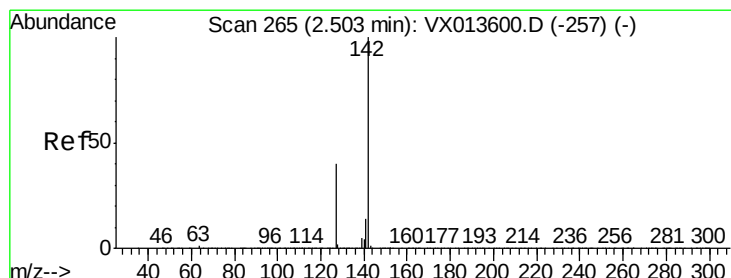
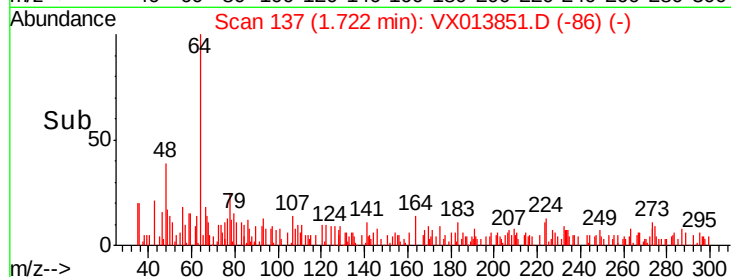
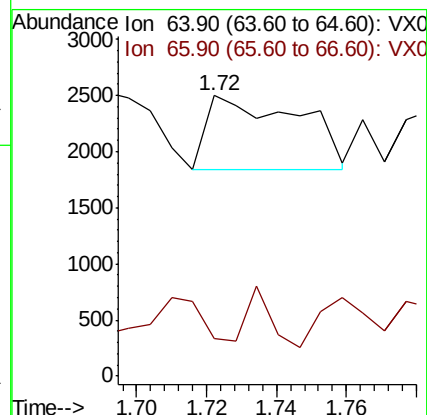
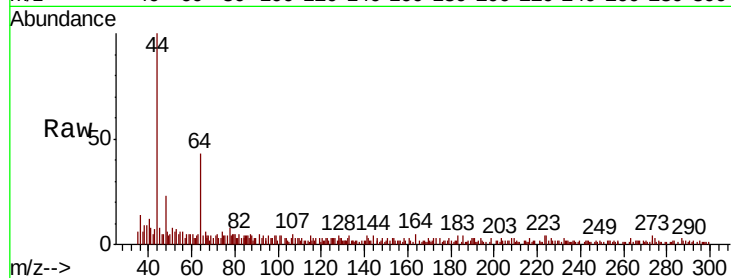
DUP01-20191203RE

Tot Ion: 64 Resp: 1181

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#10

Methyl Iodide

Concen: 0.277 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

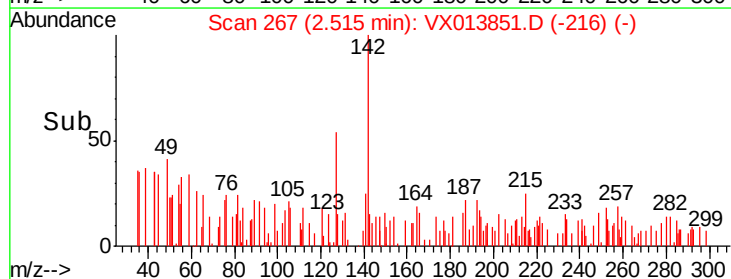
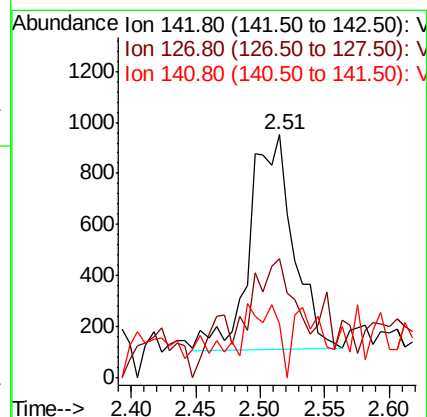
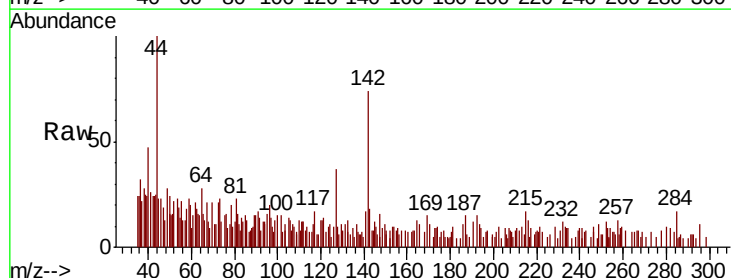
Tgt Ion: 142 Resp: 1968

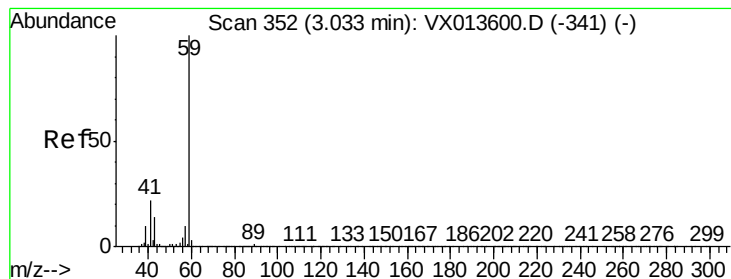
Ion Ratio Lower Upper

142 100

127 33.6 31.0 46.4

141 0.0 11.6 17.4#



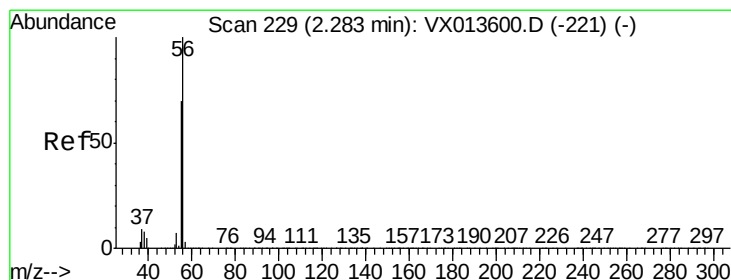
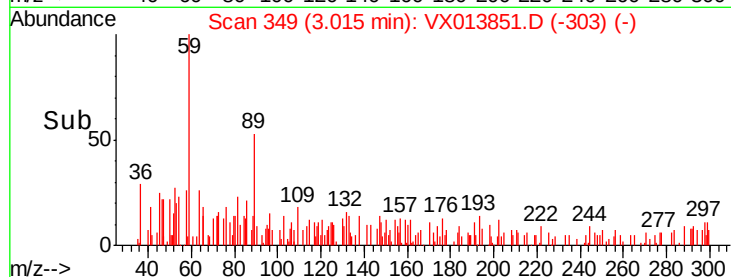
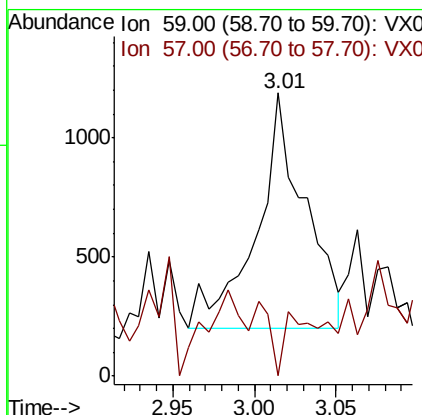
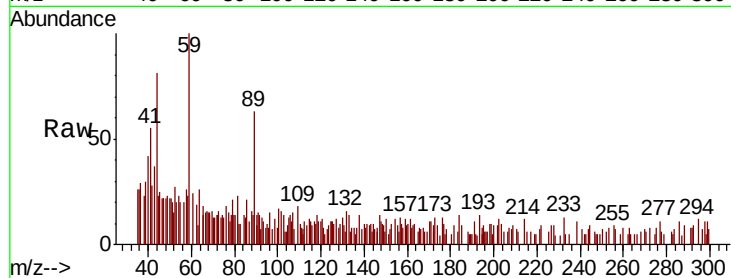


#11

Tert butyl alcohol
 Concen: 1.158 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20191203RE

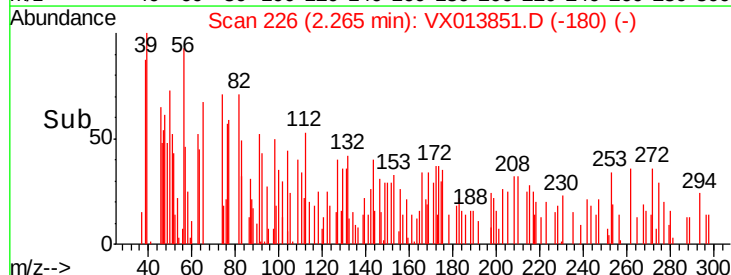
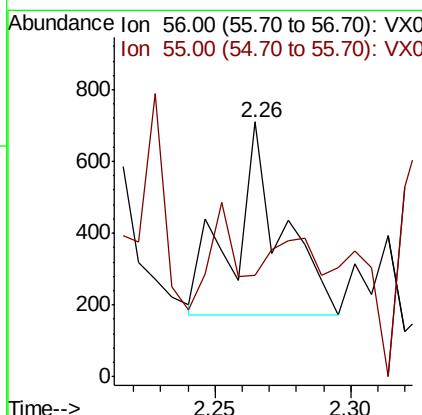
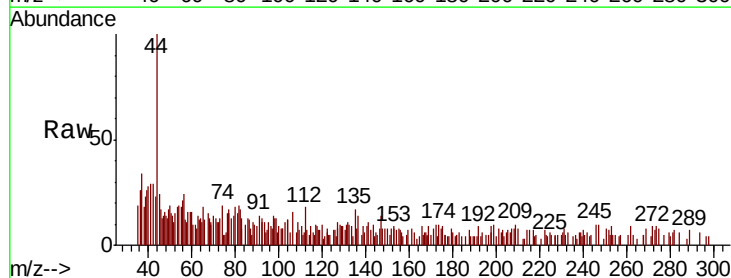
Tot Ion: 59 Resp: 2041
 Ion Ratio Lower Upper
 59 100
 57 16.4 7.8 11.6#

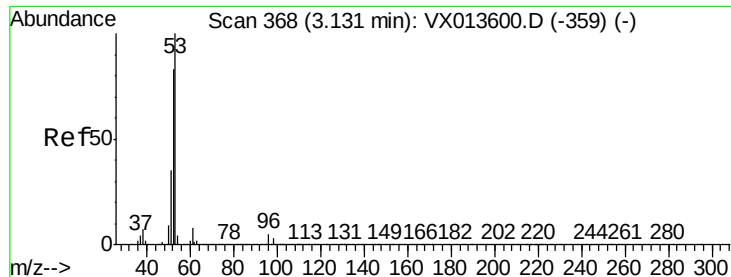


#13

Acrolein
 Concen: 6.554 ug/l
 RT: 2.26 min Scan# 226
 Delta R.T. -0.02 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

Tgt Ion: 56 Resp: 664
 Ion Ratio Lower Upper
 56 100
 55 32.2 56.2 84.4#





#15

Acrylonitrile

Concen: 0.276 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20191203RE

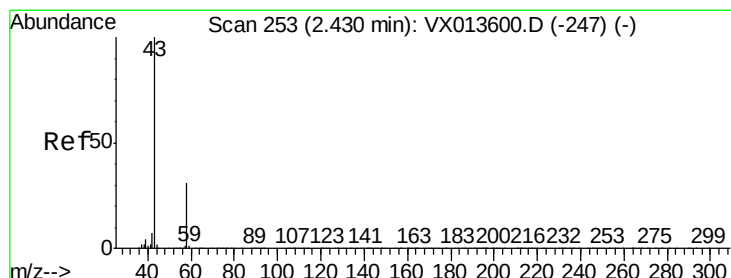
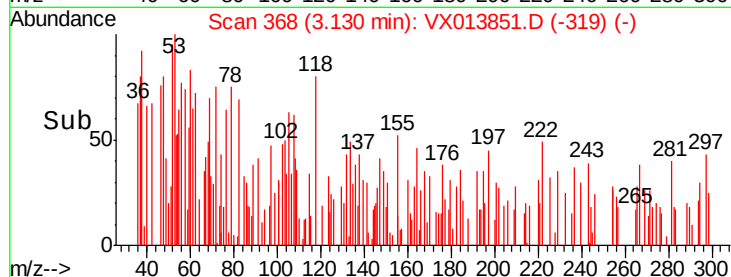
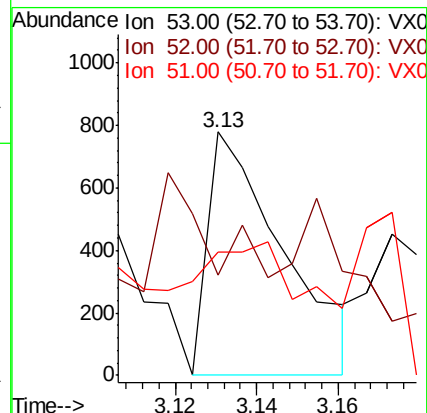
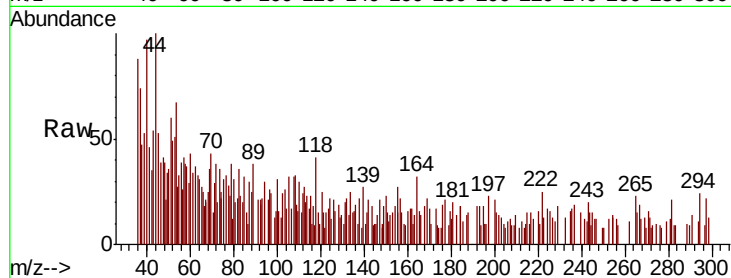
Tot Ion: 53 Resp: 1003

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 28.3 29.0 43.6#



#16

Acetone

Concen: 3.922 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013851.D

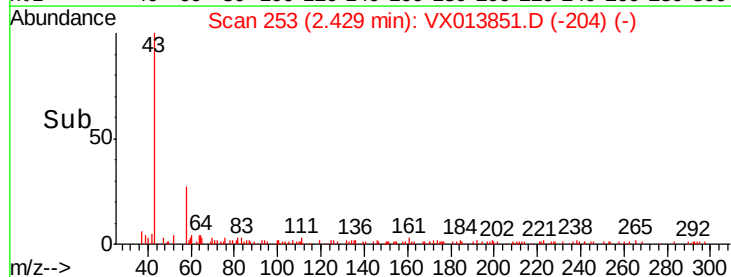
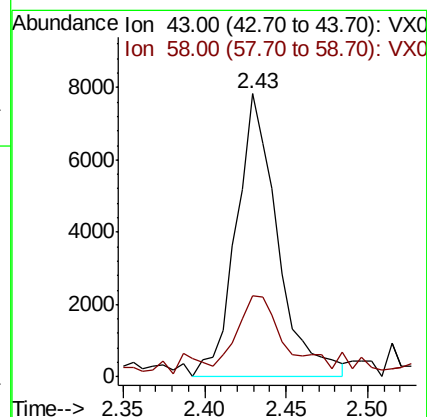
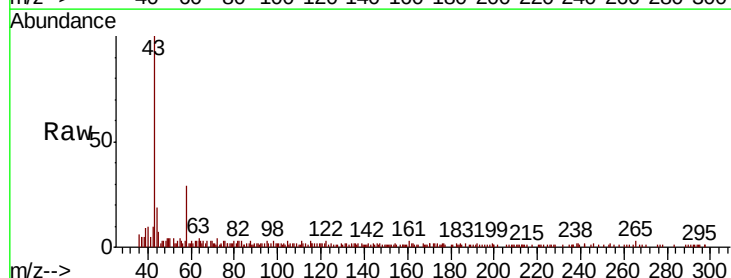
Acq: 09 Dec 2019 15:00

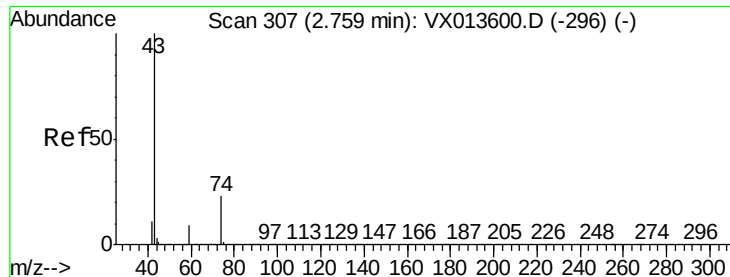
Tgt Ion: 43 Resp: 13825

Ion Ratio Lower Upper

43 100

58 22.1 24.6 36.8#

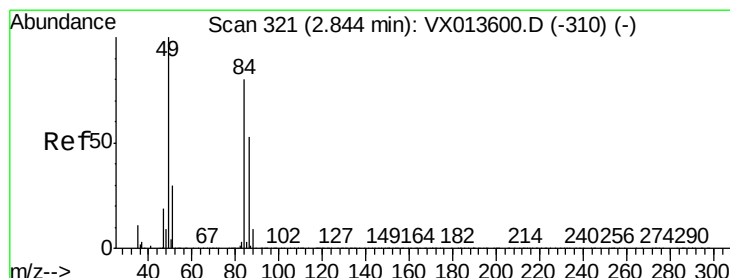
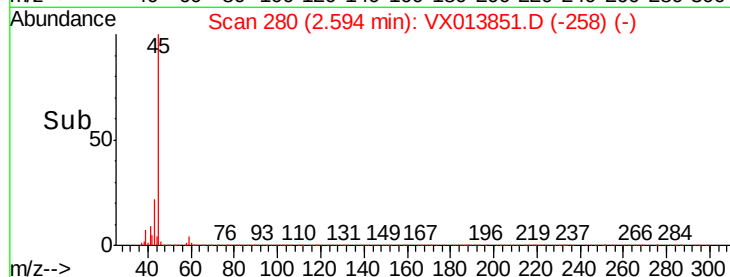
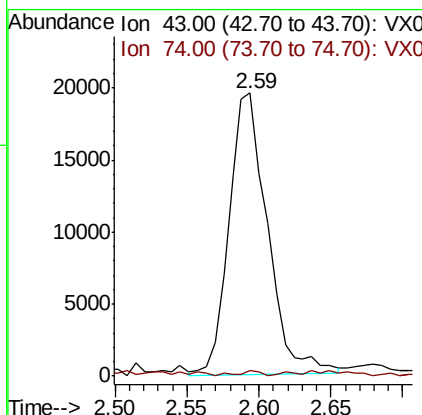
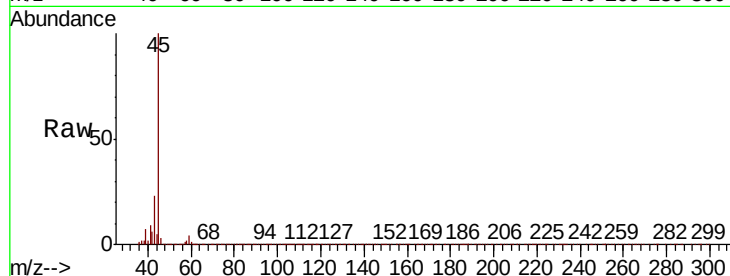




#18
Methyl Acetate
Concen: 3.709 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013851.D
Acq: 09 Dec 2019 15:00

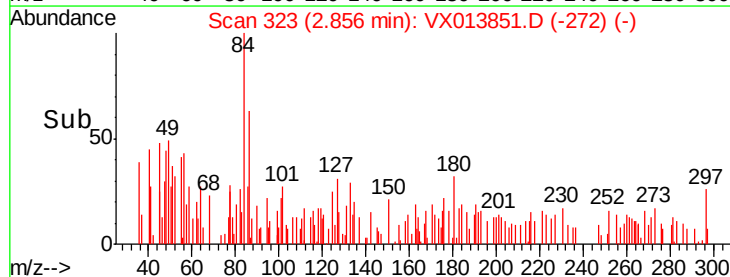
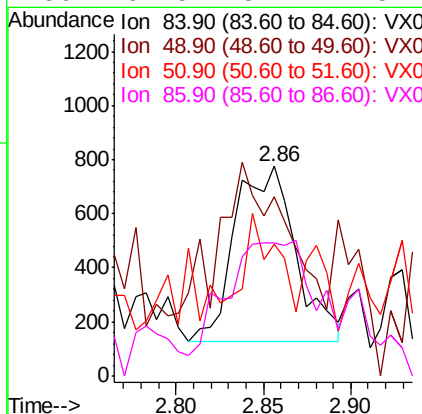
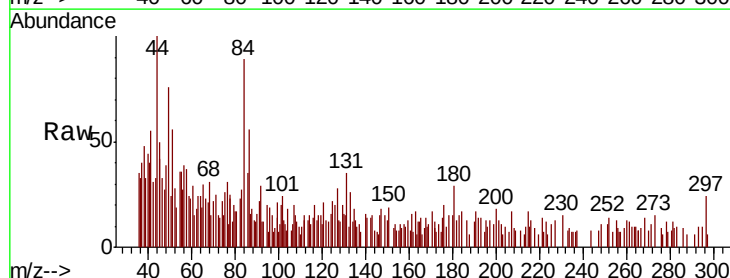
Instrument :
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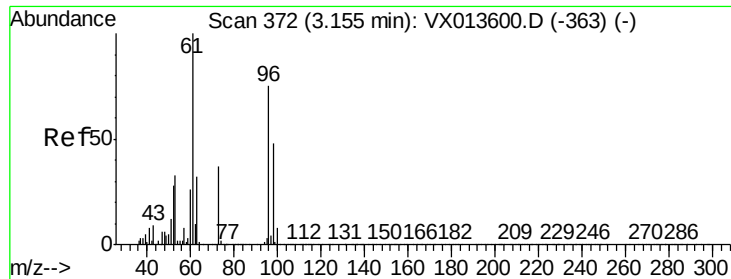
Tot Ion: 43 Resp: 36409
Ion Ratio Lower Upper
43 100
74 1.3 19.5 29.3#



#20
Methylene Chloride
Concen: 0.231 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013851.D
Acq: 09 Dec 2019 15:00

Tgt Ion: 84 Resp: 1565
Ion Ratio Lower Upper
84 100
49 54.6 99.7 149.5#
51 49.3 29.9 44.9#
86 64.5 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 0.215 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20191203RE

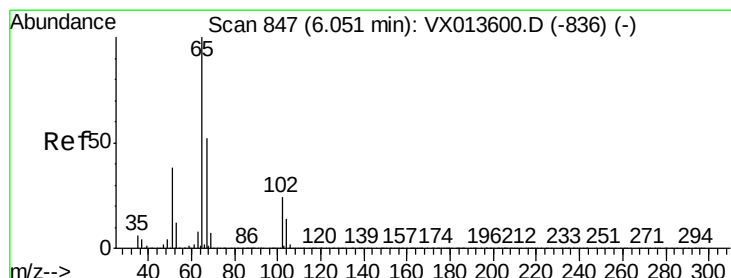
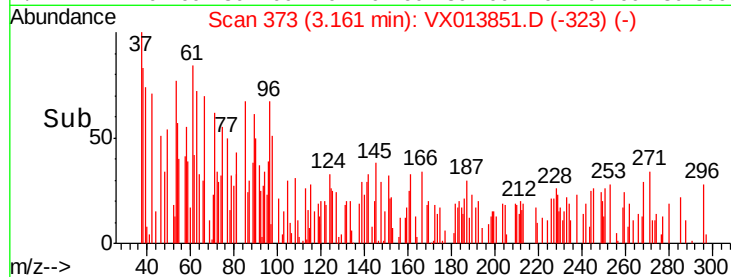
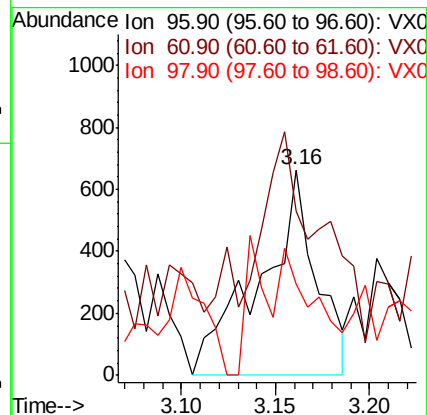
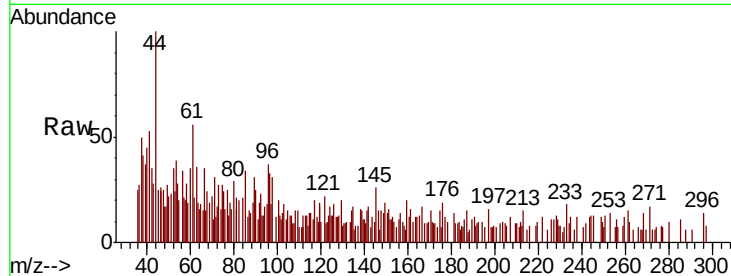
Tot Ion: 96 Resp: 1369

Ion Ratio Lower Upper

96 100

61 64.2 107.2 160.8#

98 23.9 51.4 77.0#



#33

1,2-Dichloroethane-d4

Concen: 47.335 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013851.D

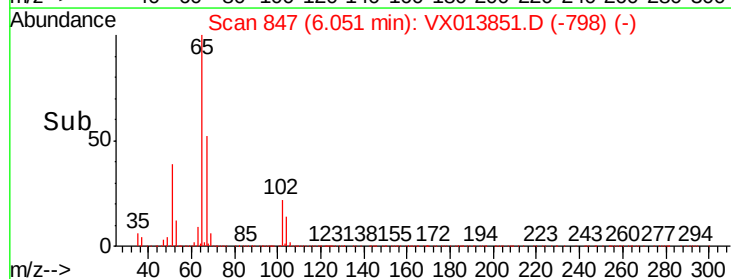
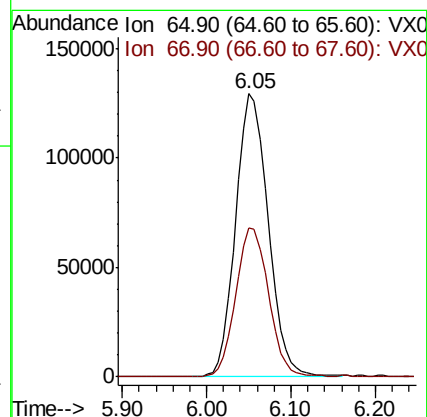
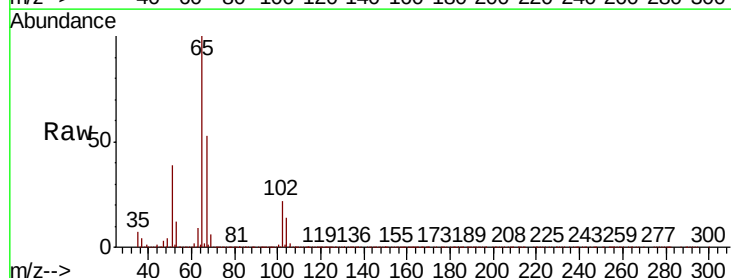
Acq: 09 Dec 2019 15:00

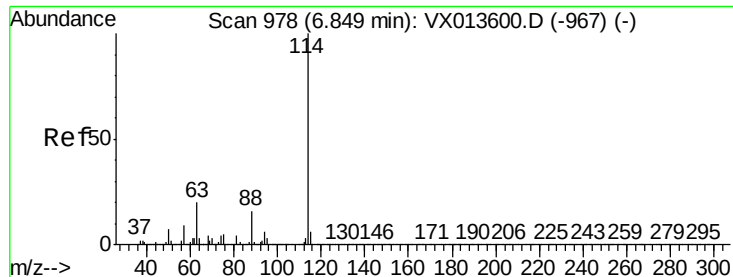
Tgt Ion: 65 Resp: 337939

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.4

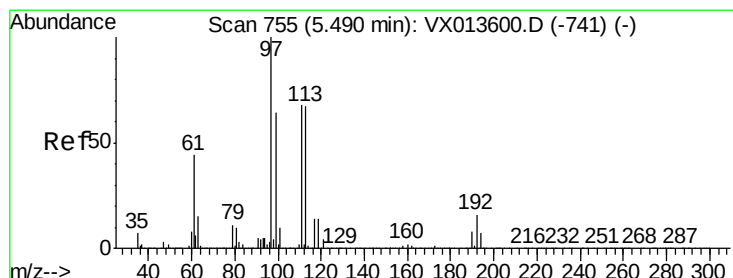
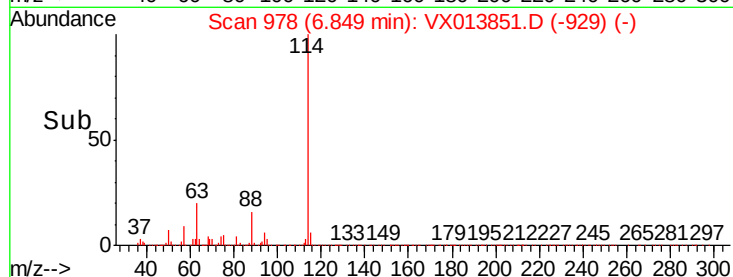
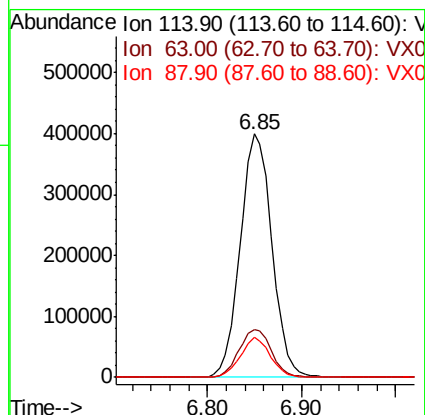
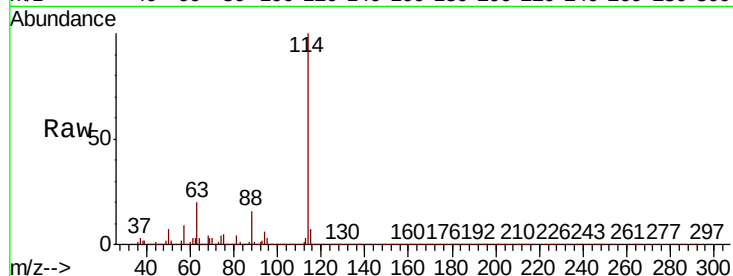




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

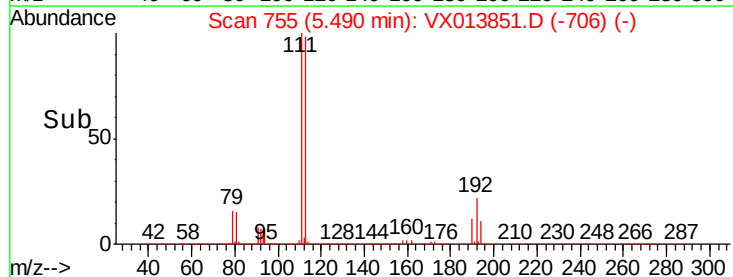
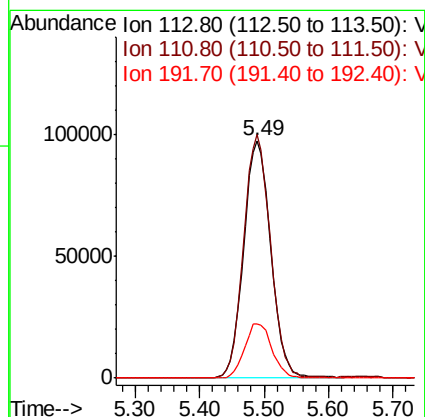
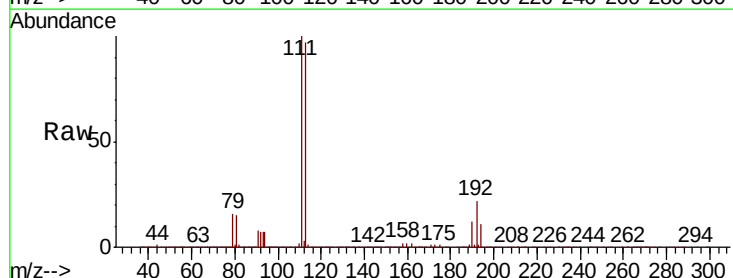
Instrument :
 MSVOA_X
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 DUP01-20191203RE

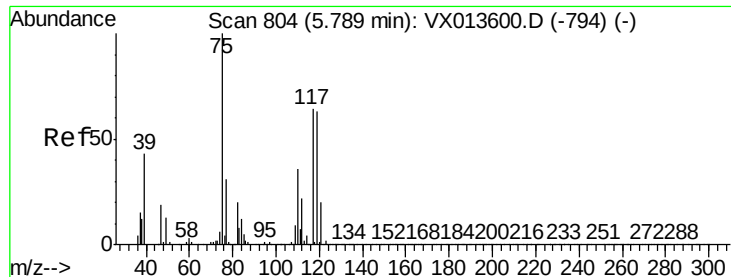
Tot Ion:	114	Resp:	938360
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	16.3	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 48.413 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

Tgt Ion:	113	Resp:	280848
Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.6	125.4
192	23.5	19.2	28.8

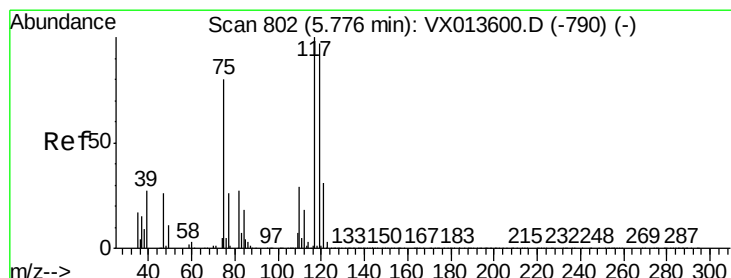
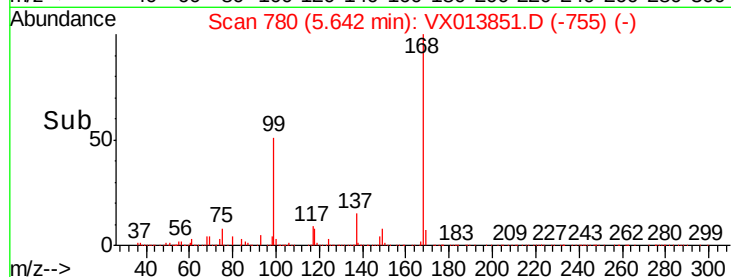
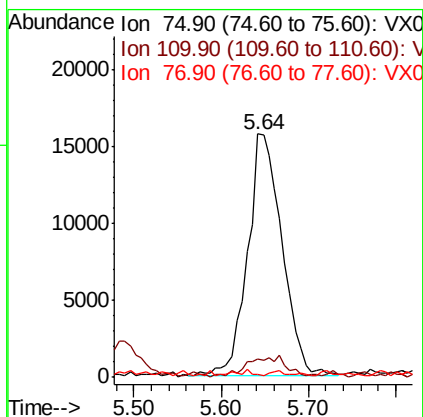
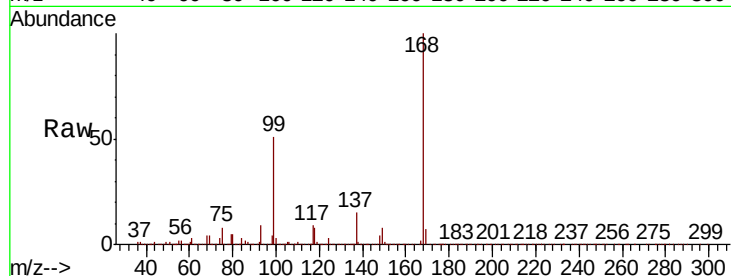




#36
 1,1-Dichloropropene
 Concen: 4.986 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

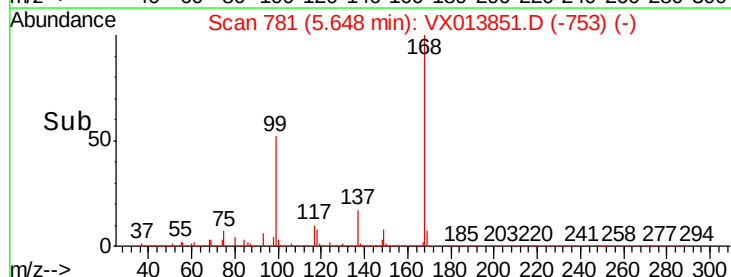
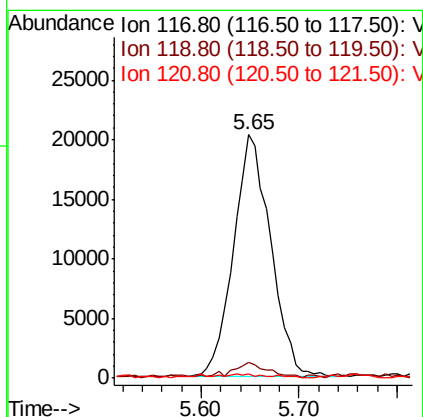
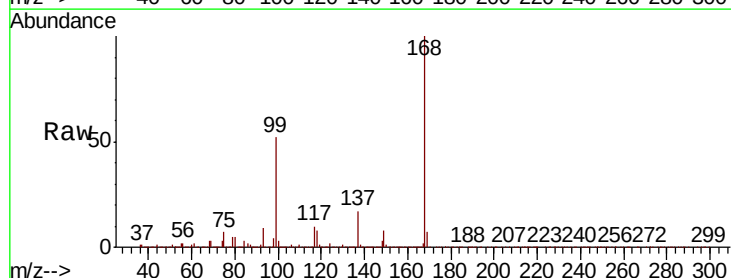
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20191203RE

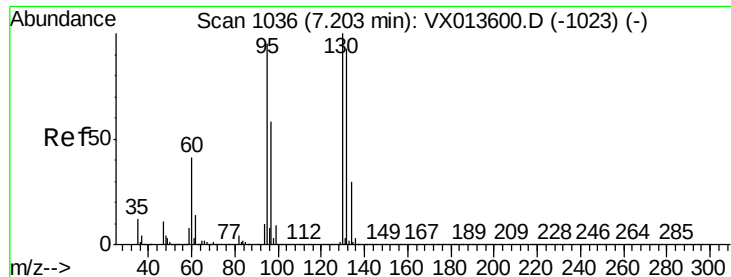
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.1	54.1#
77	0.4	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.803 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.5	116.3#
121	1.3	25.0	37.6#





#44

Trichloroethene

Concen: 8.894 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

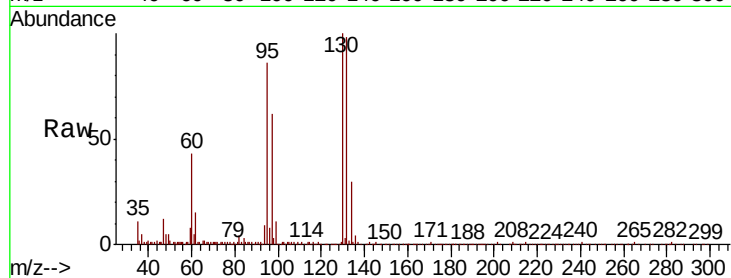
DUP01-20191203RE

Tot Ion:130 Resp: 63328

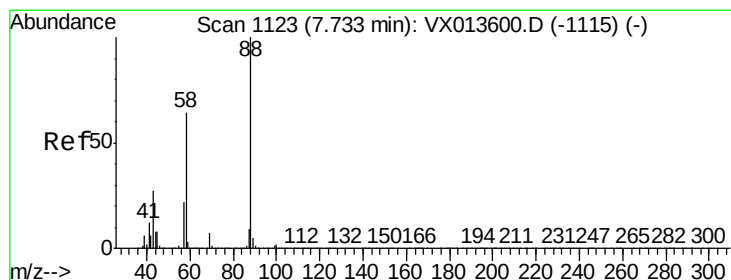
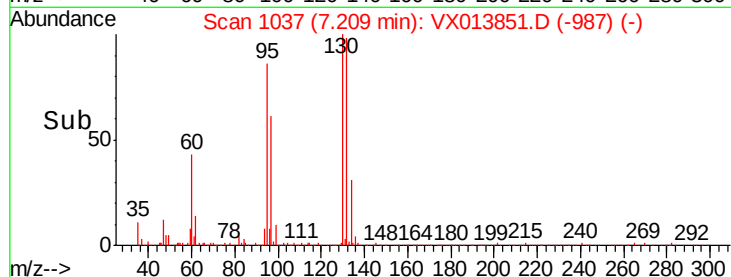
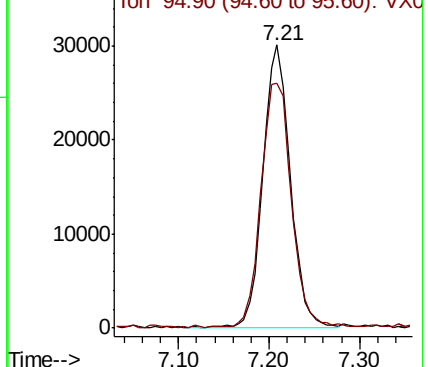
Ion Ratio Lower Upper

130 100

95 86.4 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 8.884 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

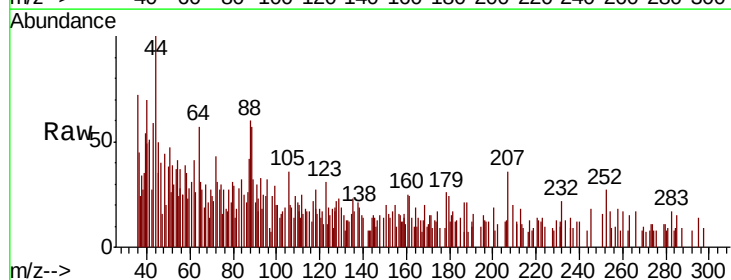
Tgt Ion: 88 Resp: 1520

Ion Ratio Lower Upper

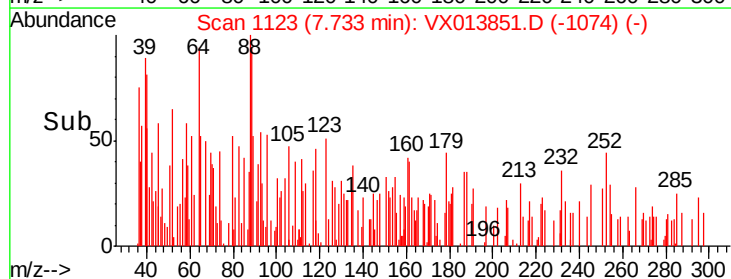
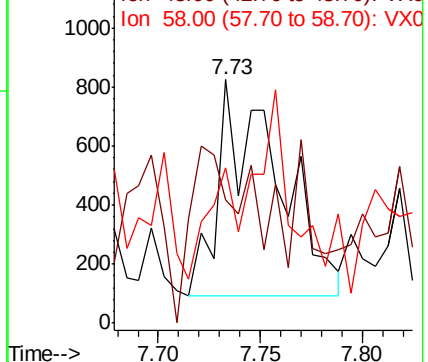
88 100

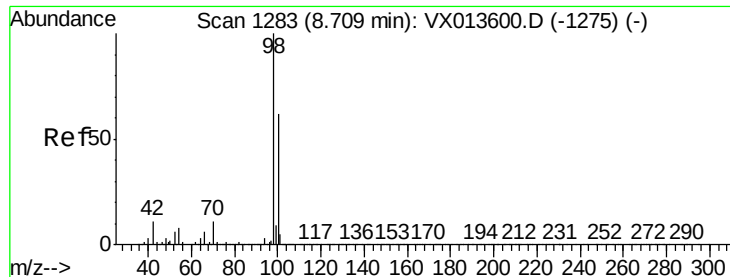
43 55.5 25.8 38.6#

58 31.9 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0





#50

Toluene-d8

Concen: 48.895 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

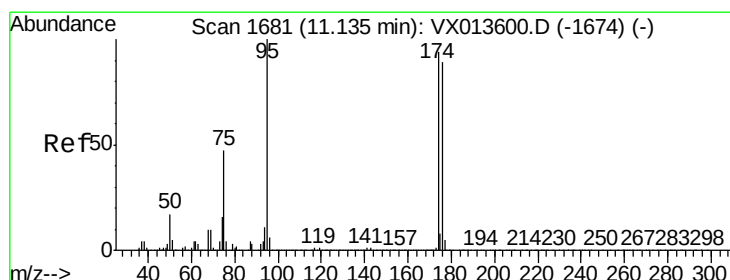
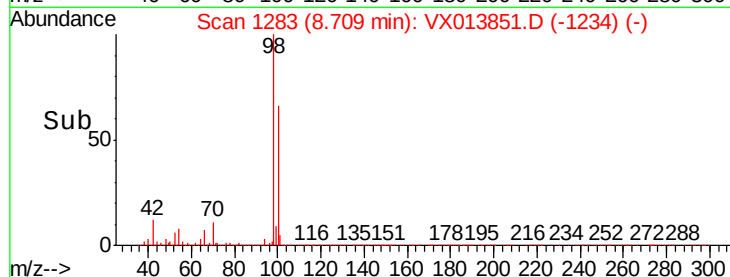
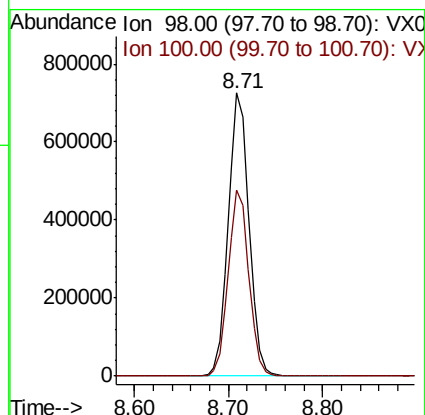
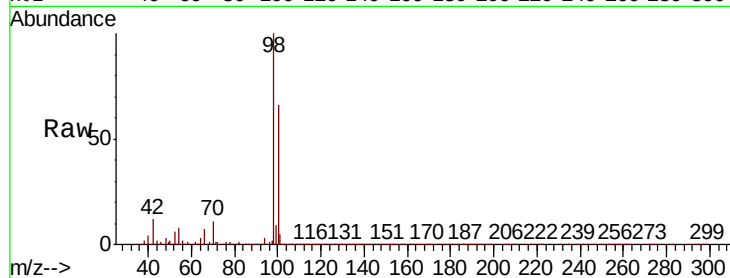
DUP01-20191203RE

Tot Ion: 98 Resp: 1105112

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 44.263 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

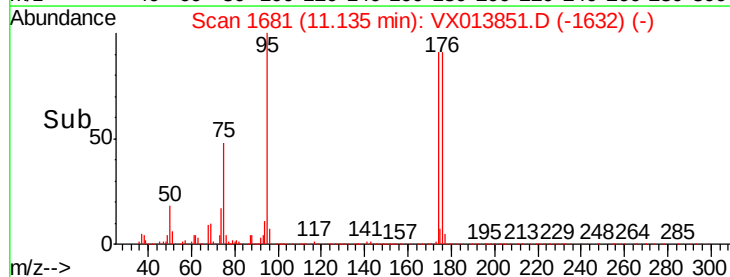
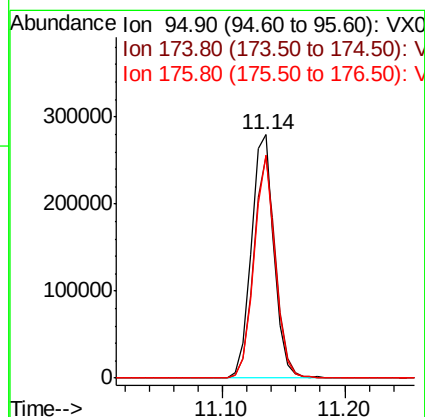
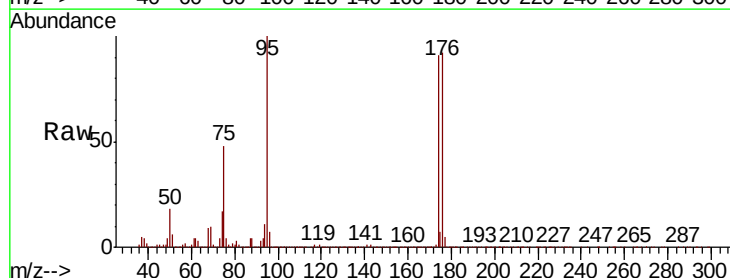
Tgt Ion: 95 Resp: 360753

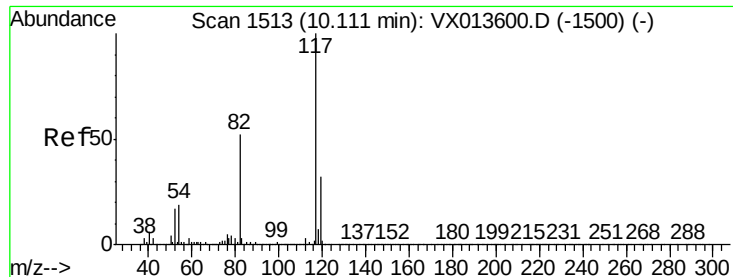
Ion Ratio Lower Upper

95 100

174 88.8 0.0 180.0

176 86.2 0.0 173.6

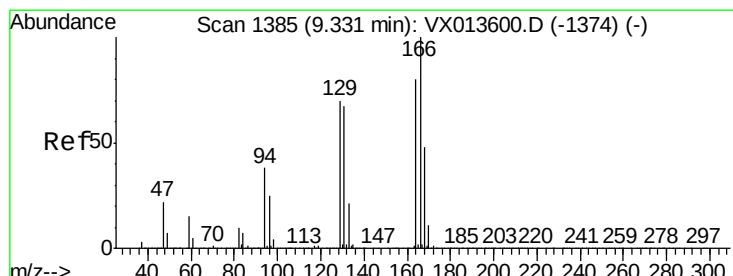
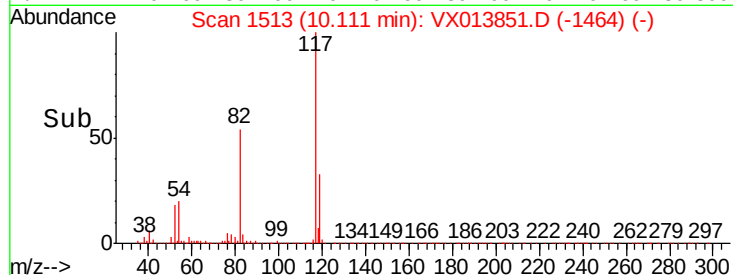
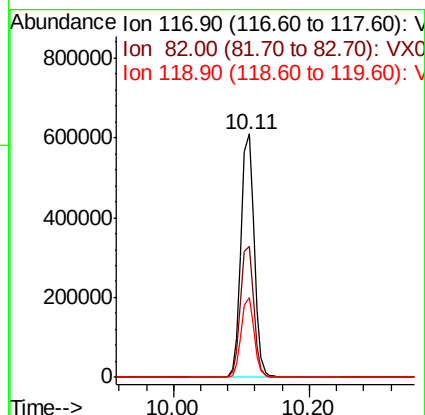
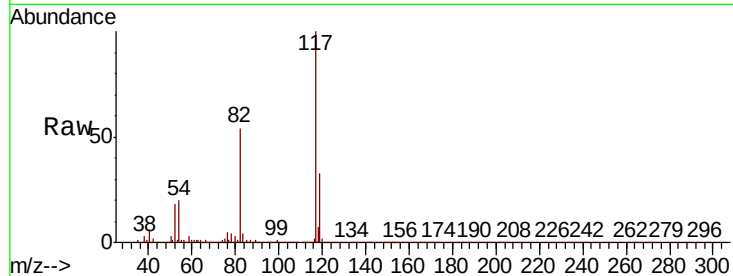




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013851.D
Acq: 09 Dec 2019 15:00

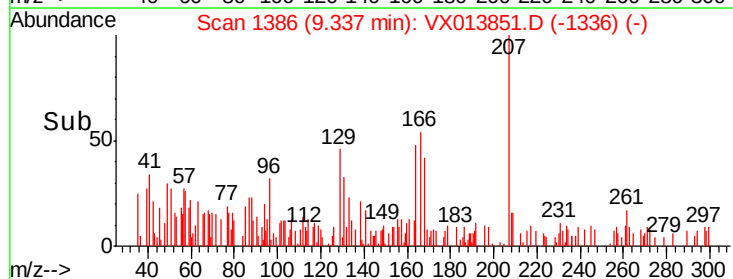
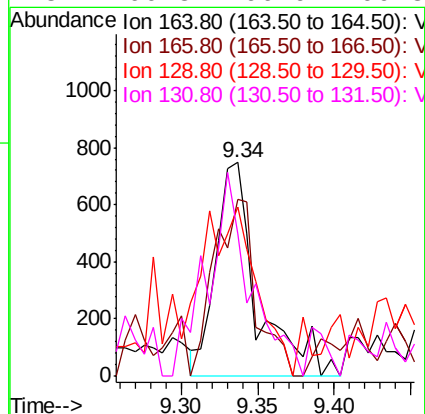
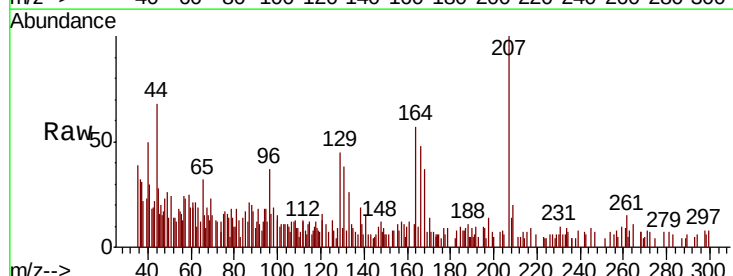
Instrument :
MSVOA_X
ClientSampleId :
DUP01-20191203RE

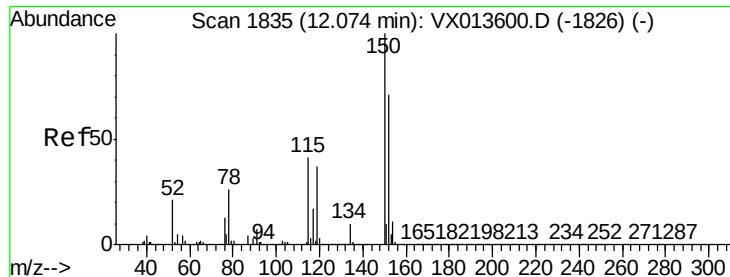
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	41.8	62.8
119	32.9	25.8	38.8



#64
Tetrachloroethene
Concen: 0.229 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013851.D
Acq: 09 Dec 2019 15:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	82.6	99.7	149.5#
129	49.9	70.1	105.1#
131	66.3	66.9	100.3#

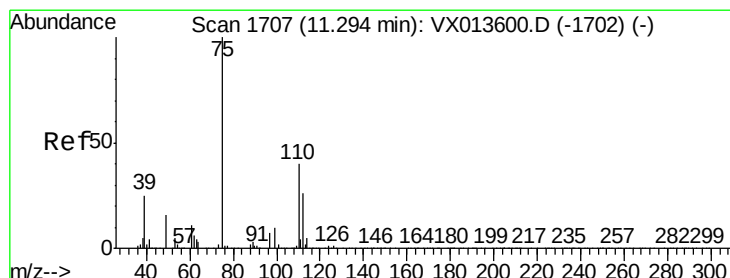
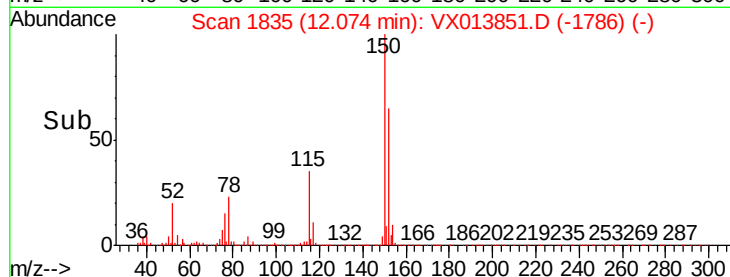
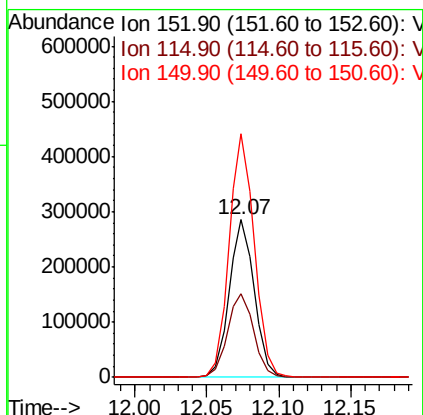
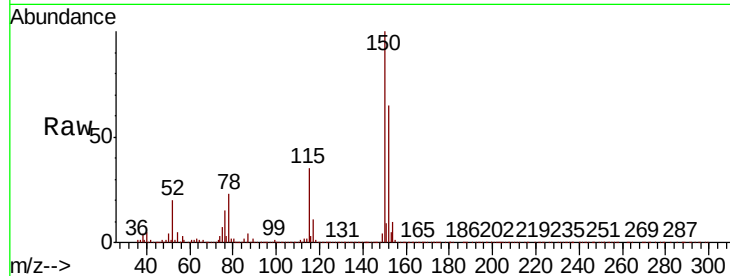




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

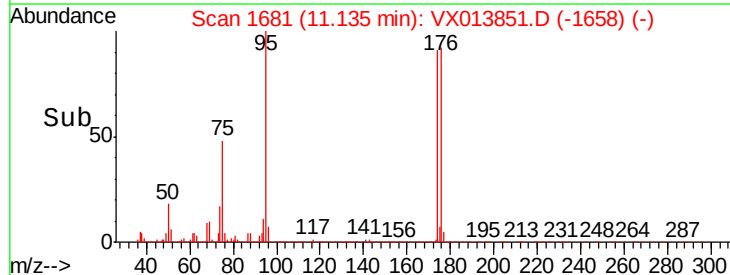
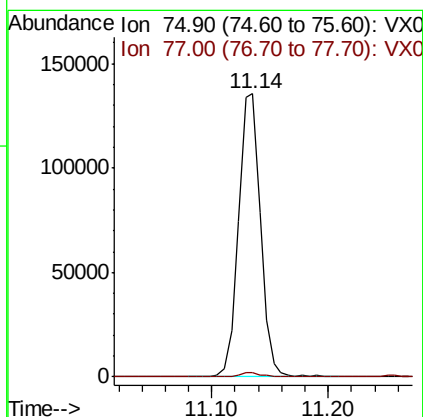
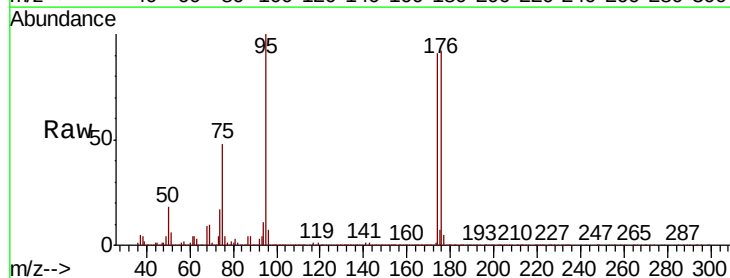
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP01-20191203RE

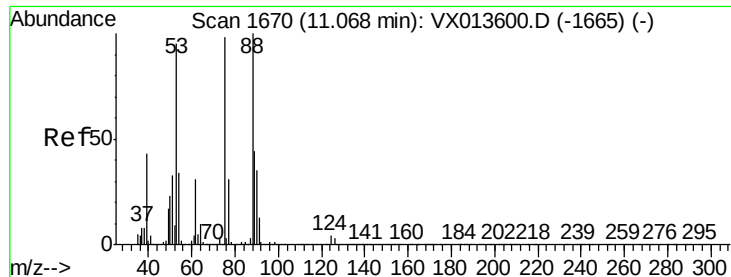
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.4	115.1
150	154.8	0.0	346.8



#76
 1,2,3-Trichloropropane
 Concen: 22.703 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX013851.D
 Acq: 09 Dec 2019 15:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	19.1	57.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.112 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

DUP01-20191203RE

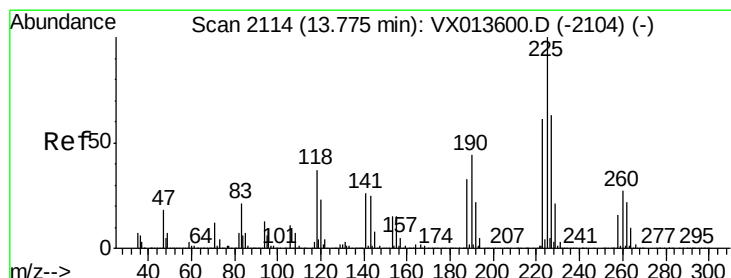
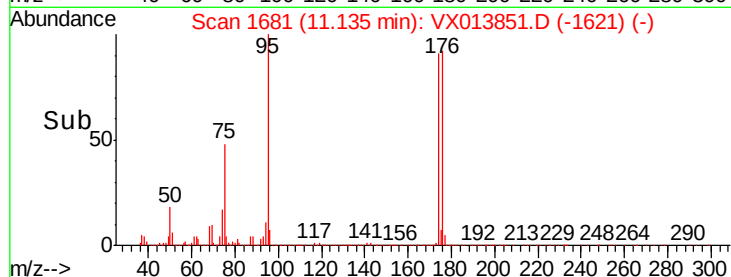
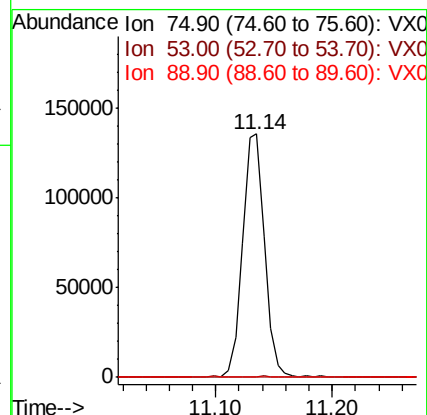
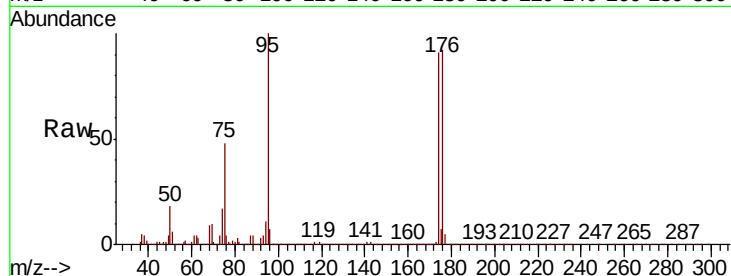
Tot Ion: 75 Resp: 178709

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.2 35.4 53.2#



#94

Hexachlorobutadiene

Concen: 0.276 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX013851.D

Acq: 09 Dec 2019 15:00

Tgt Ion: 225 Resp: 1054

Ion Ratio Lower Upper

225 100

223 80.7 31.9 95.5

227 32.2 32.1 96.3

