

Data File : VX013904.D
Acq On : 10 Dec 2019 17:33
Operator : JC/SP
Sample : K6185-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20191205

Quant Time: Dec 11 02:28:00 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	579734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	893379	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	788482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	338214	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	330824	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
35) Dibromofluoromethane	5.49	113	265240	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
50) Toluene-d8	8.71	98	1060031	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.14	95	345084	44.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.94%	

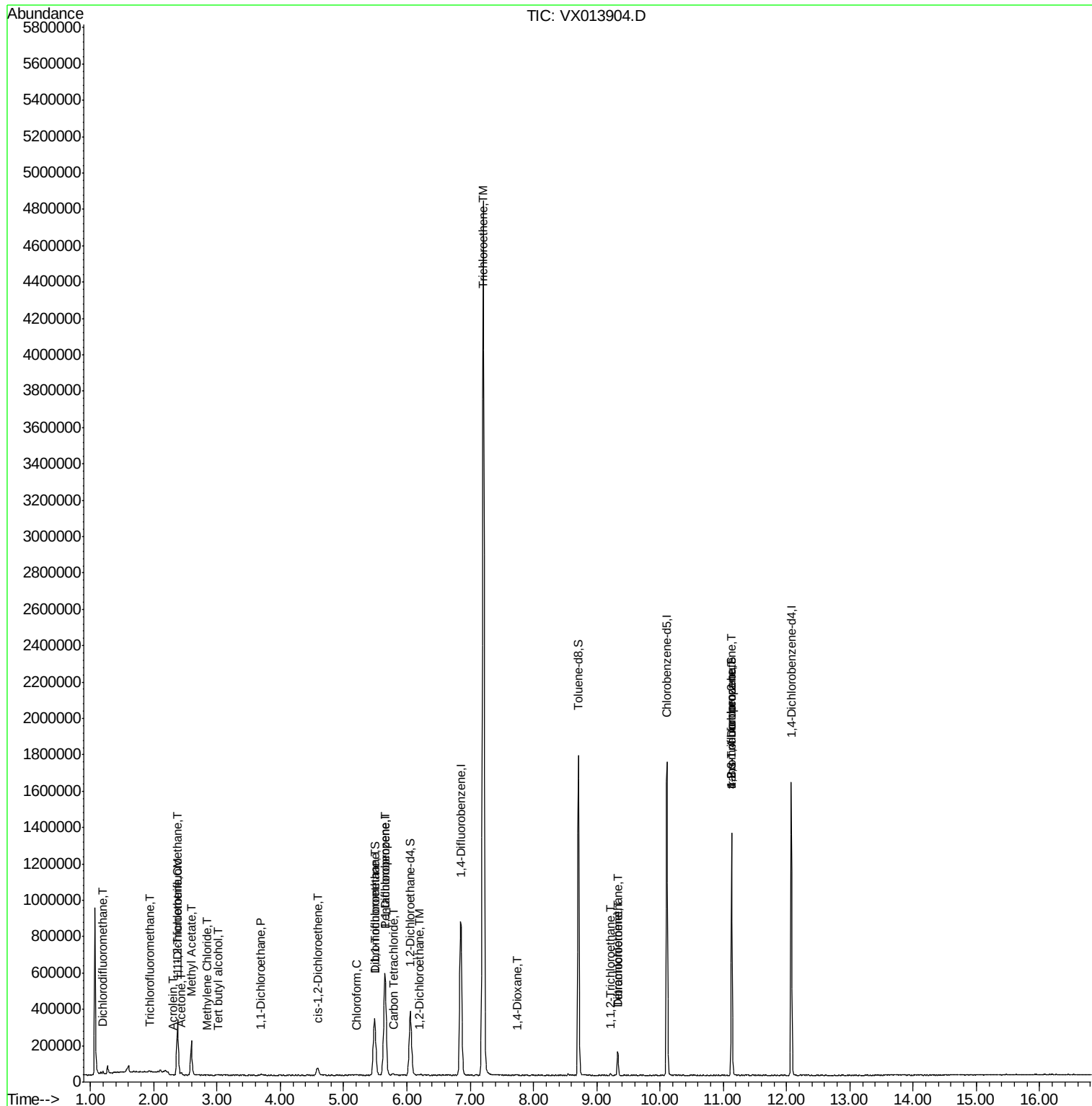
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.19	85	3960	0.614	ug/l	88
7) Trichlorofluoromethane	1.93	101	2929	0.324	ug/l #	81
9) 1,1,2-Trichlorotrifluoroet	2.37	101	105571	19.100	ug/l	97
11) Tert butyl alcohol	3.02	59	4043	2.434	ug/l #	53
12) 1,1-Dichloroethene	2.36	96	29470	5.342	ug/l	95
13) Acrolein	2.30	56	406	6.360	ug/l #	15
16) Acetone	2.43	43	13171	3.964	ug/l	93
18) Methyl Acetate	2.59	43	52163	5.638	ug/l #	52
20) Methylene Chloride	2.84	84	2617	0.410	ug/l #	25
24) 1,1-Dichloroethane	3.69	63	9379	0.890	ug/l #	86
27) cis-1,2-Dichloroethene	4.58	96	28783	4.170	ug/l	88
30) Chloroform	5.21	83	6214	0.581	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	4272	0.478	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	39226	4.837	ug/l #	53
38) Carbon Tetrachloride	5.78	117	4165	0.557	ug/l #	73
42) 1,2-Dichloroethane	6.19	62	3177	0.377	ug/l	94
44) Trichloroethene	7.21	130	1904286	280.924	ug/l	98
49) 1,4-Dioxane	7.74	88	4277	26.256	ug/l #	69
55) 1,1,2-Trichloroethane	9.21	97	2796	0.452	ug/l #	88
60) Dibromochloromethane	9.33	129	22211	3.461	ug/l #	12
64) Tetrachloroethene	9.33	164	26742	4.548	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	170050	22.354	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	170050	61.157	ug/l #	11

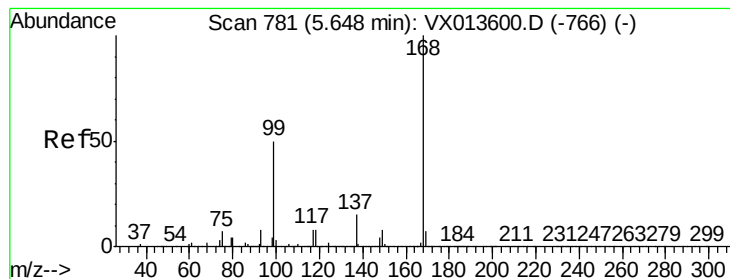
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

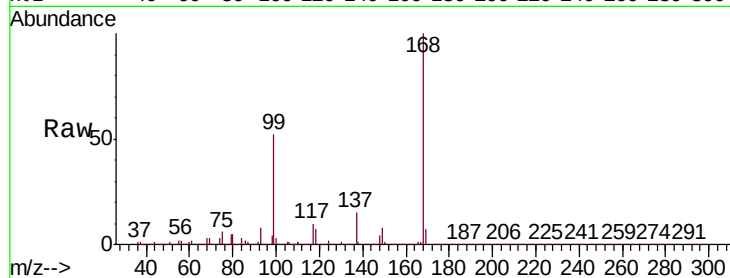
DUP03-20191205

Tgt Ion:168 Resp: 579734

Ion Ratio Lower Upper

168 100

99 52.2 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

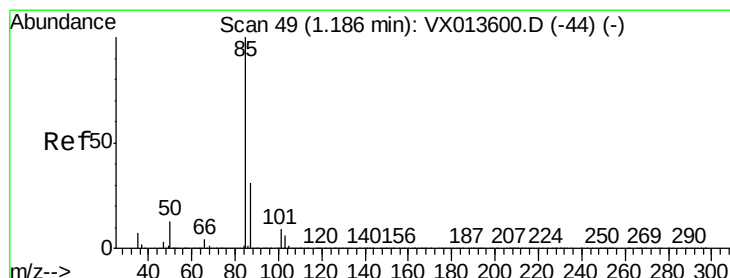
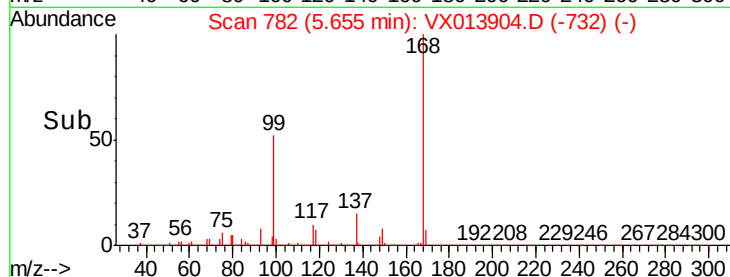
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.614 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013904.D

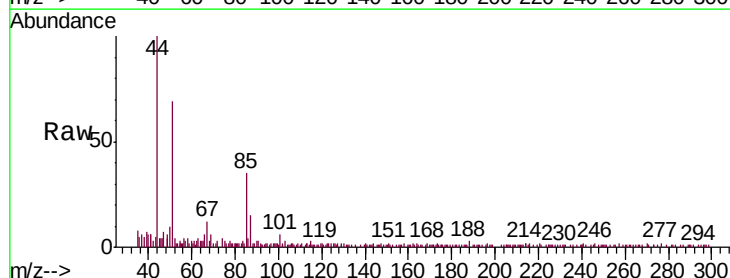
Acq: 10 Dec 2019 17:33

Tgt Ion: 85 Resp: 3960

Ion Ratio Lower Upper

85 100

87 38.2 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

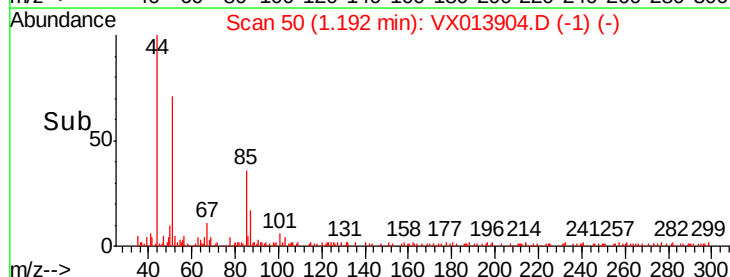
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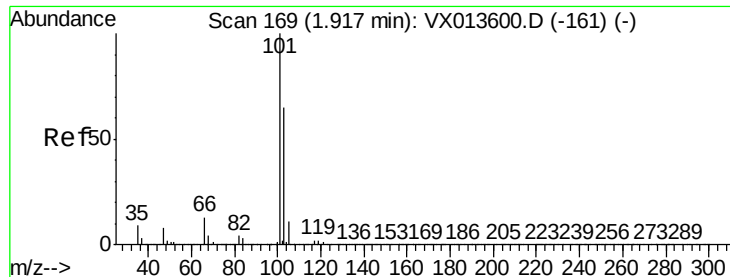
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1000

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Time-->



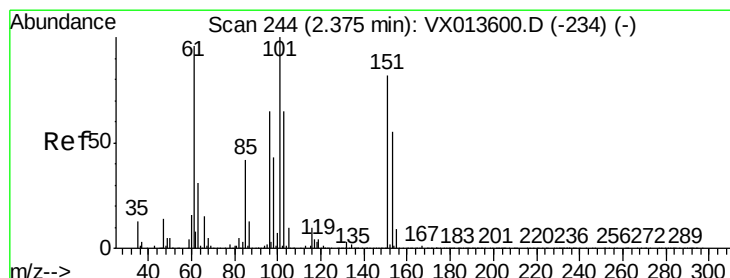
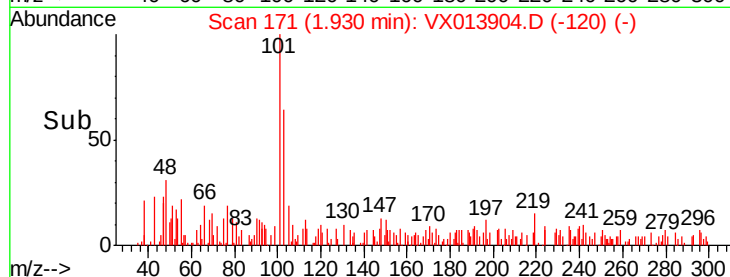
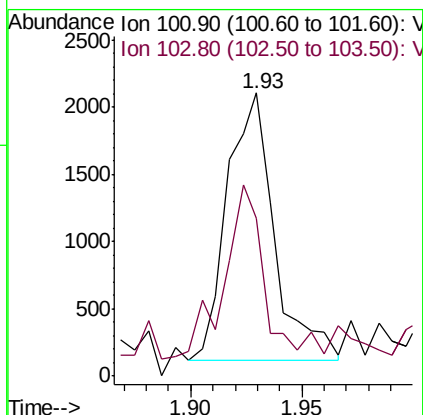
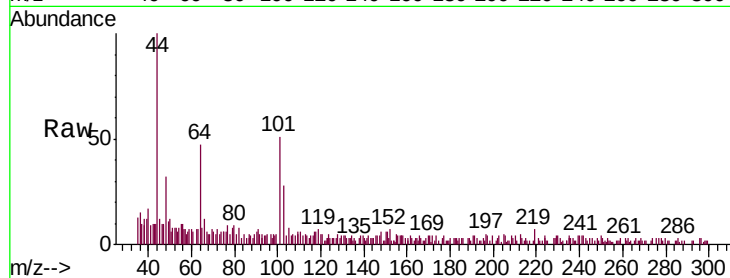


#7

Trichlorofluoromethane
 Concen: 0.324 ug/l
 RT: 1.93 min Scan# 171
 Delta R.T. 0.01 min
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 MSVOA_X
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 DUP03-20191205

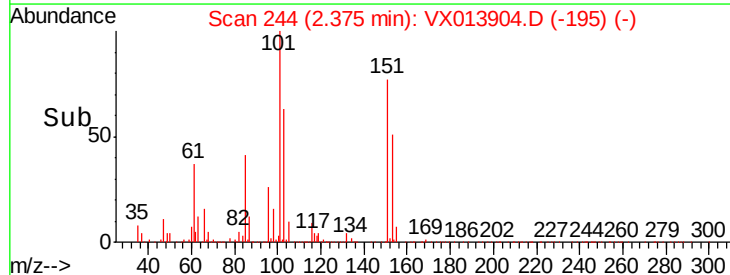
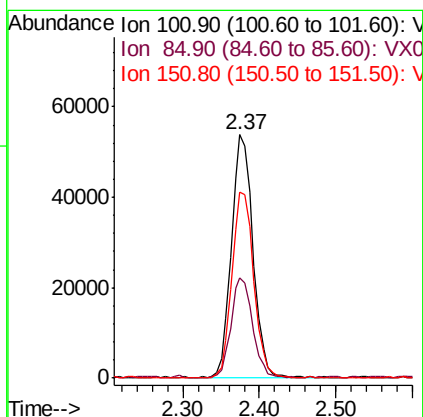
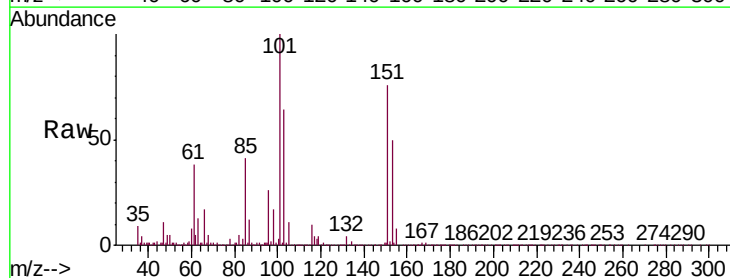
Tgt Ion:101 Resp: 2929
 Ion Ratio Lower Upper
 101 100
 103 49.8 51.8 77.6#

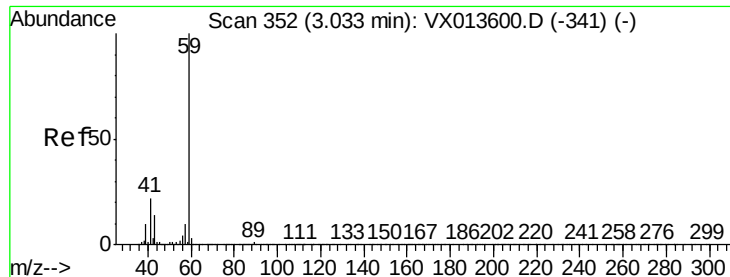


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 19.100 ug/l
 RT: 2.37 min Scan# 244
 Delta R.T. -0.00 min
 Lab File: VX013904.D
 Acq: 10 Dec 2019 17:33

Tgt Ion:101 Resp: 105571
 Ion Ratio Lower Upper
 101 100
 85 40.1 33.9 50.9
 151 77.4 64.2 96.2



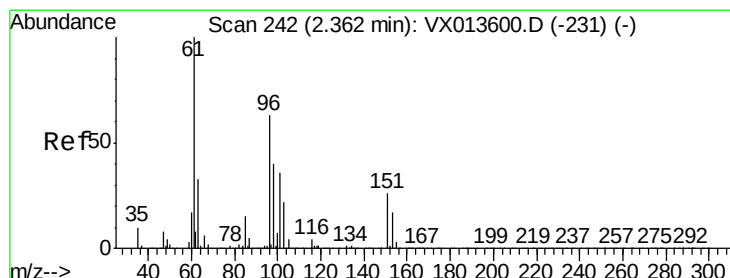
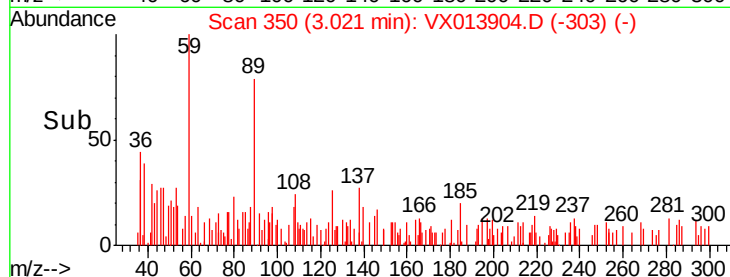
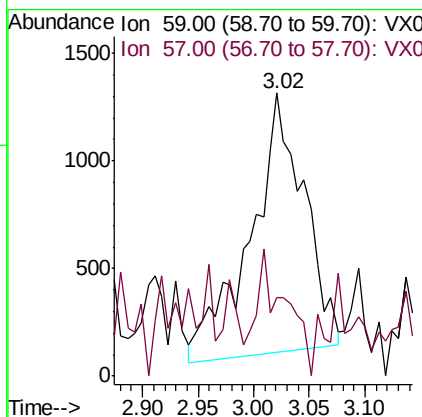
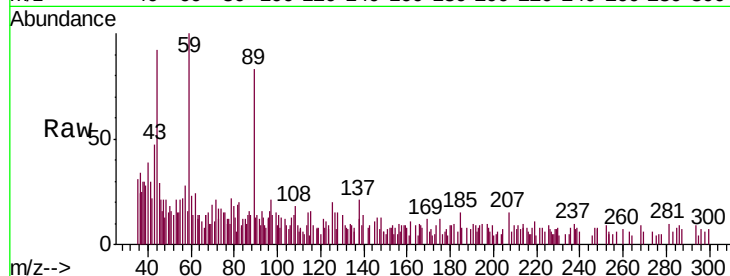


#11

Tert butyl alcohol
Concen: 2.434 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20191205

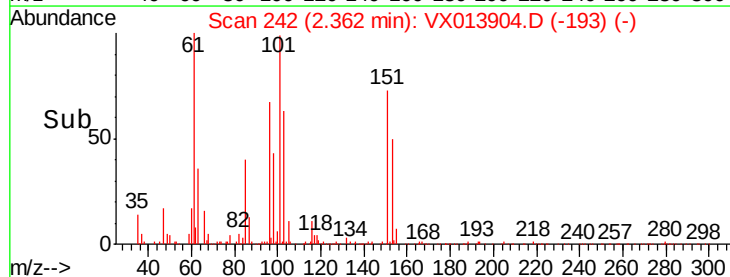
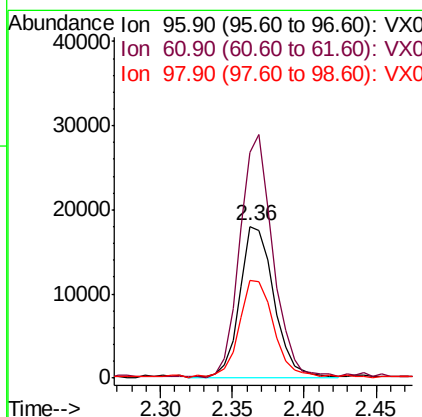
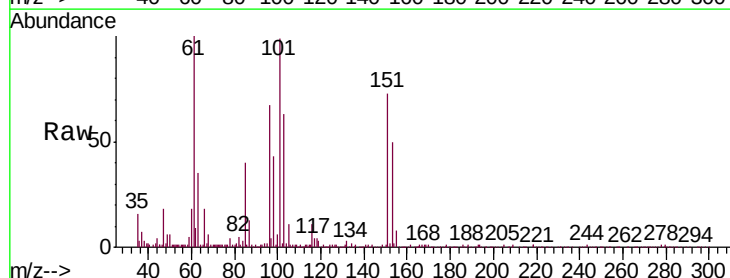
Tgt Ion: 59 Resp: 4043
Ion Ratio Lower Upper
59 100
57 27.0 7.8 11.6#

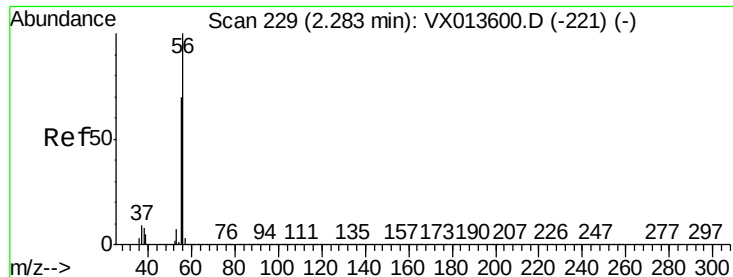


#12

1,1-Dichloroethene
Concen: 5.342 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.00 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Tgt Ion: 96 Resp: 29470
Ion Ratio Lower Upper
96 100
61 148.6 126.6 190.0
98 63.8 50.6 76.0





#13

Acrolein

Concen: 6.360 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

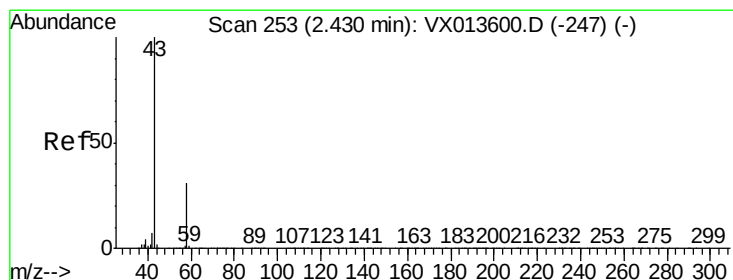
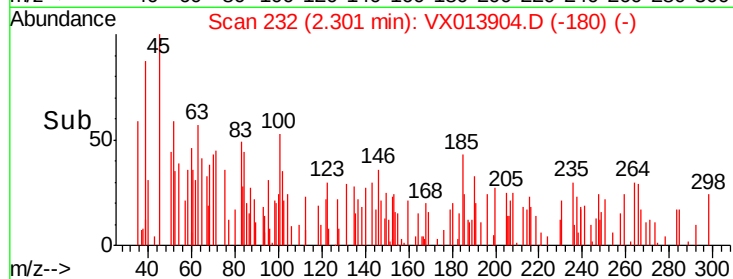
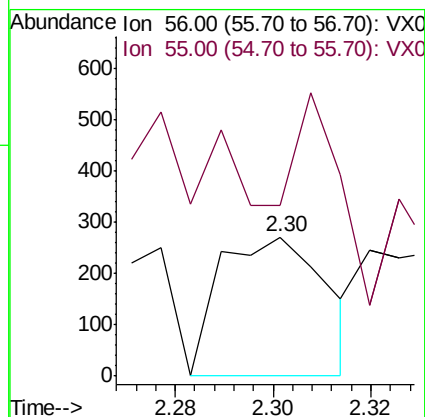
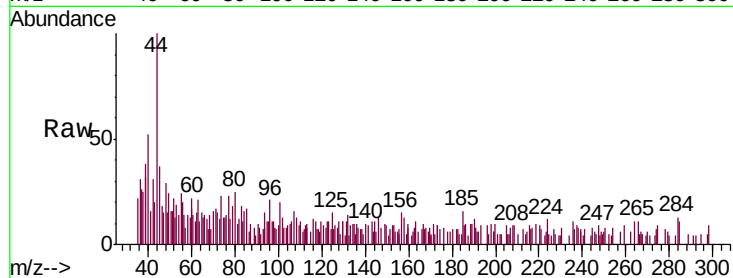
DUP03-20191205

Tgt Ion: 56 Resp: 406

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#16

Acetone

Concen: 3.964 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013904.D

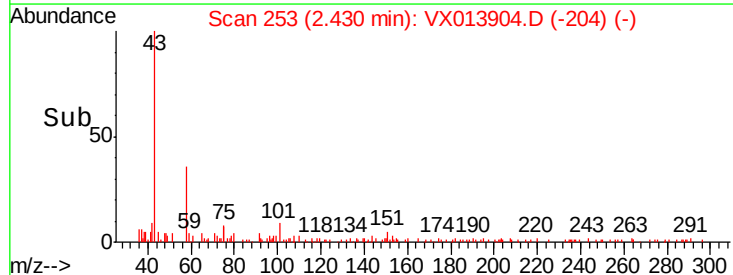
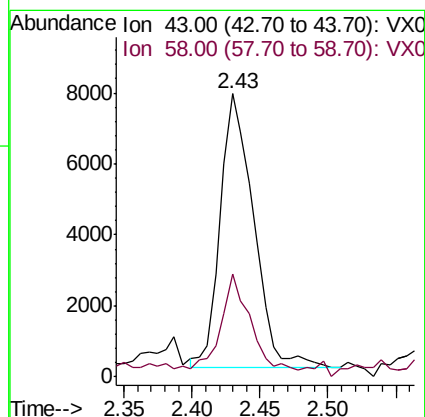
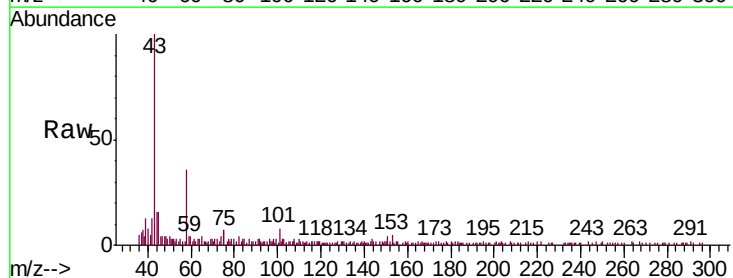
Acq: 10 Dec 2019 17:33

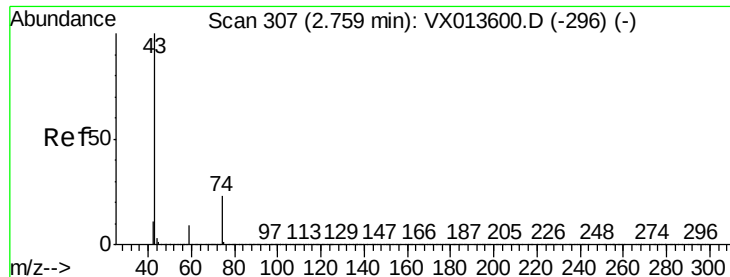
Tgt Ion: 43 Resp: 13171

Ion Ratio Lower Upper

43 100

58 34.3 24.6 36.8

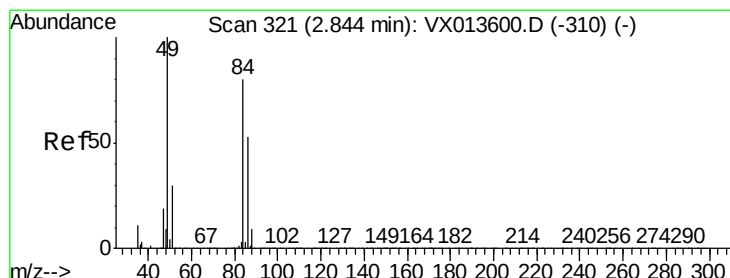
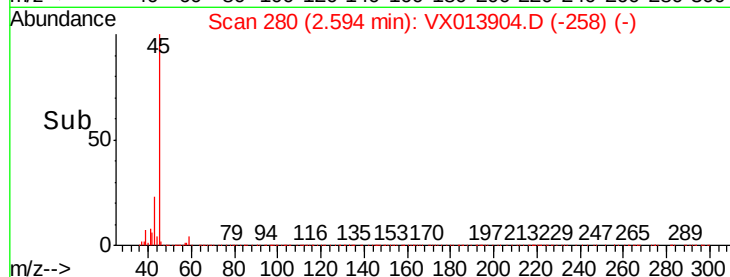
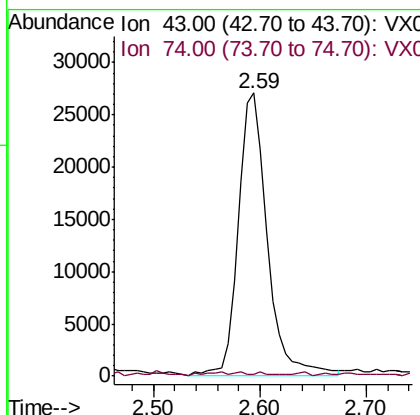
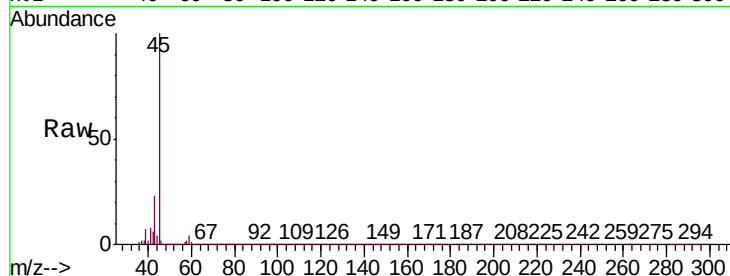




#18
Methyl Acetate
Concen: 5.638 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

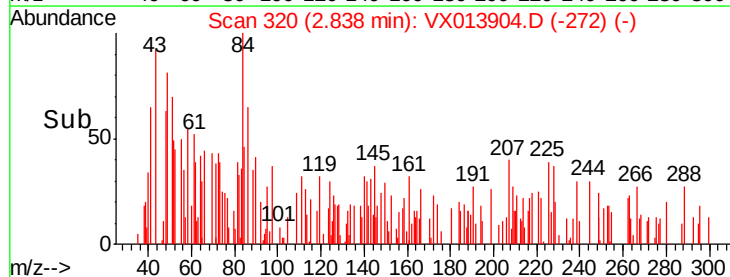
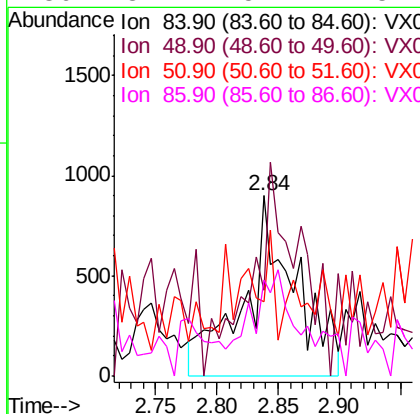
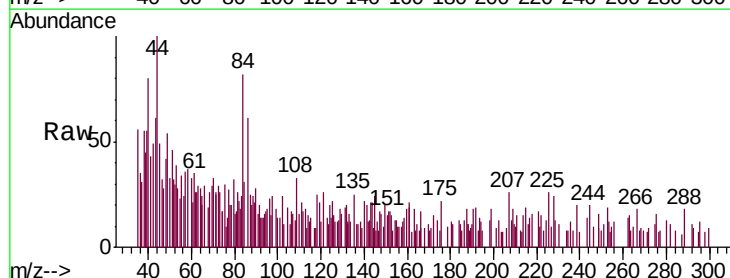
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20191205

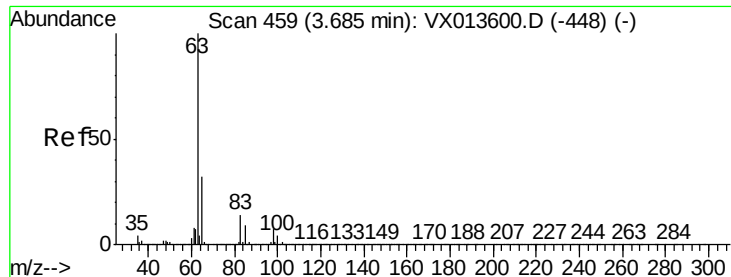
Tgt Ion: 43 Resp: 52163
Ion Ratio Lower Upper
43 100
74 0.5 19.5 29.3#



#20
Methylene Chloride
Concen: 0.410 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Tgt Ion: 84 Resp: 2617
Ion Ratio Lower Upper
84 100
49 0.0 99.7 149.5#
51 25.4 29.9 44.9#
86 34.7 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 0.890 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

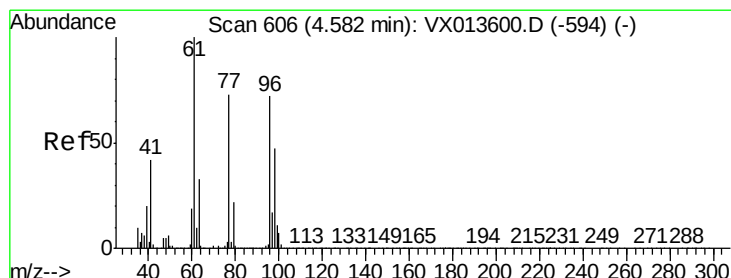
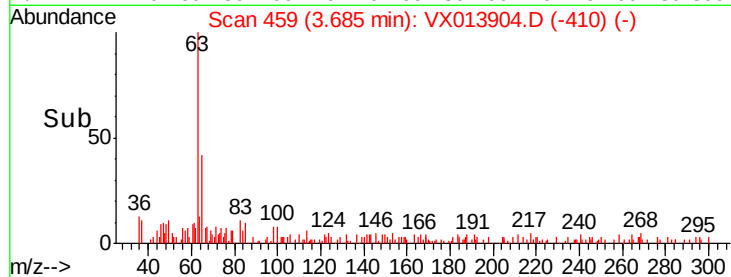
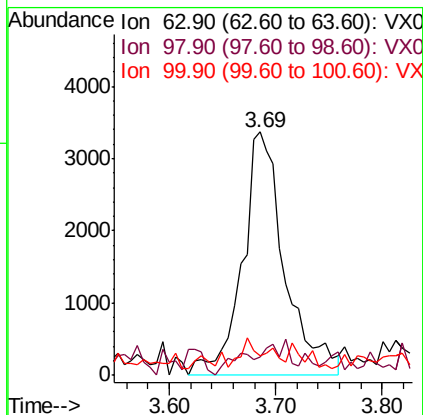
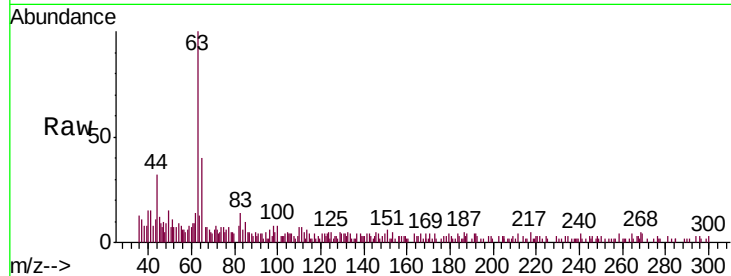
Instrument :

MSVOA_X

ClientSampleId :

DUP03-20191205

Tgt Ion:	63	Resp:	9379
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	5.8	2.1	6.3



#27

cis-1,2-Dichloroethene

Concen: 4.170 ug/l

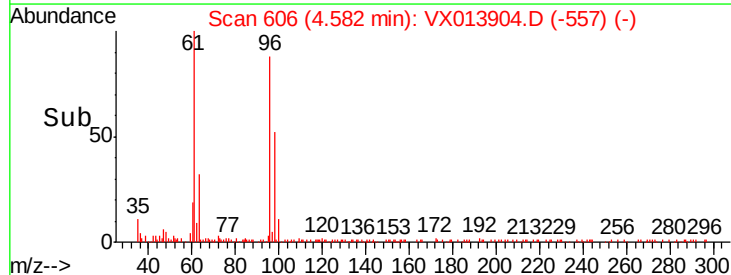
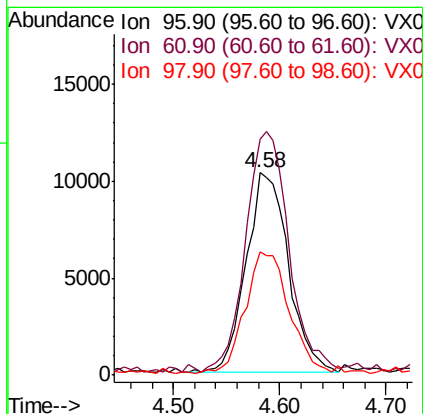
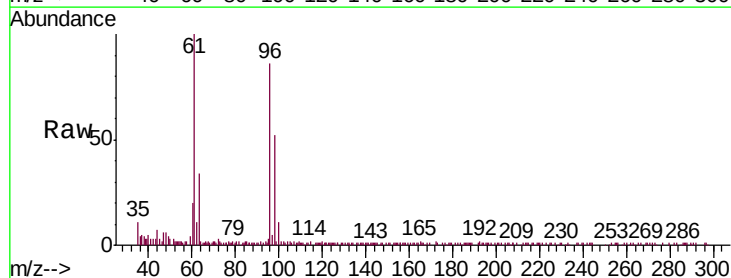
RT: 4.58 min Scan# 606

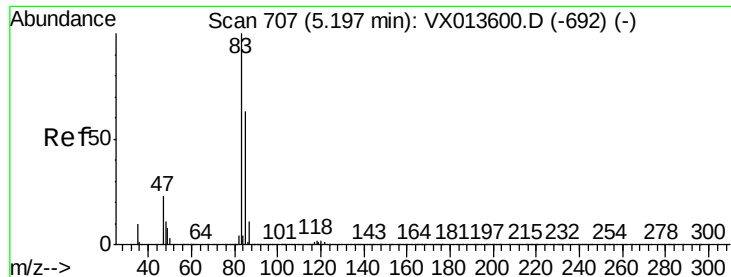
Delta R.T. -0.00 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Tgt Ion:	96	Resp:	28783
Ion	Ratio	Lower	Upper
96	100		
61	122.8	0.0	286.4
98	62.4	0.0	127.4

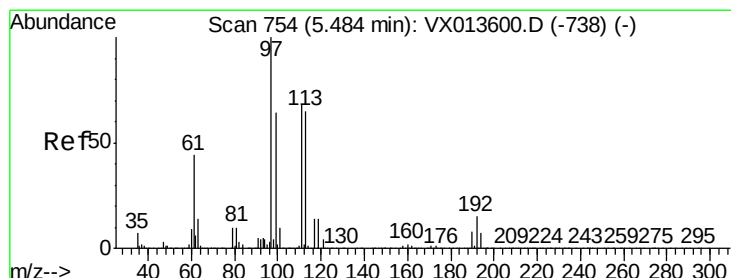
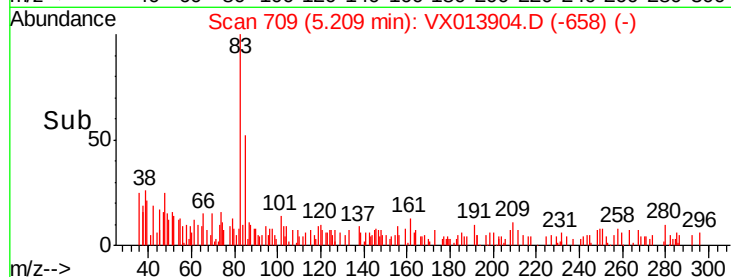
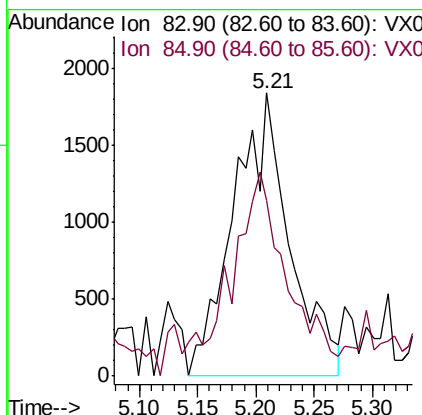
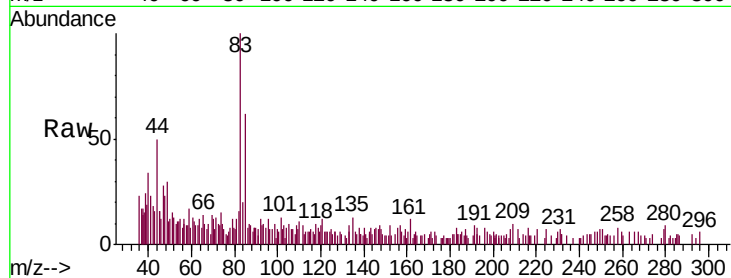




#30
Chloroform
Concen: 0.581 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

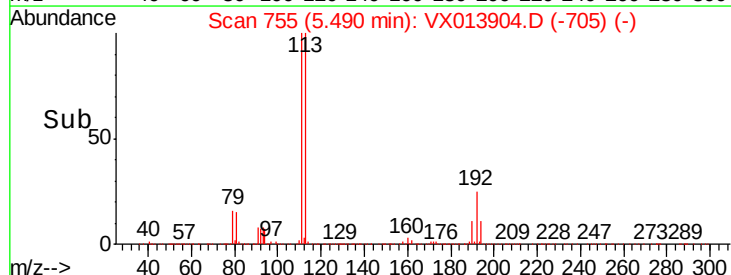
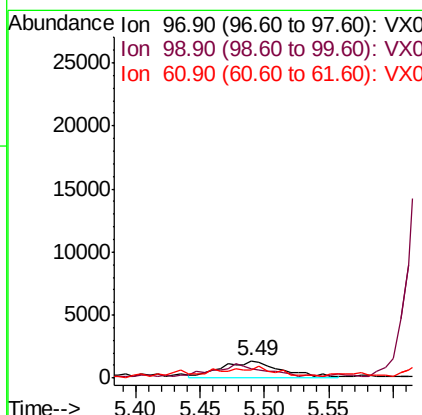
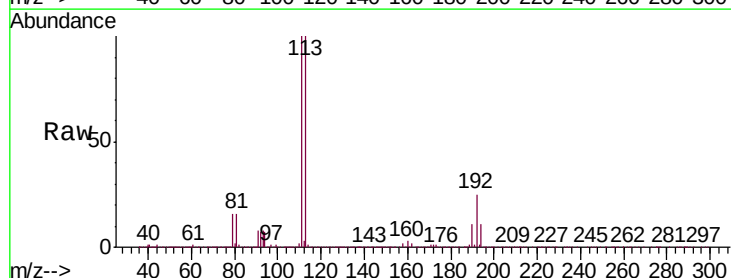
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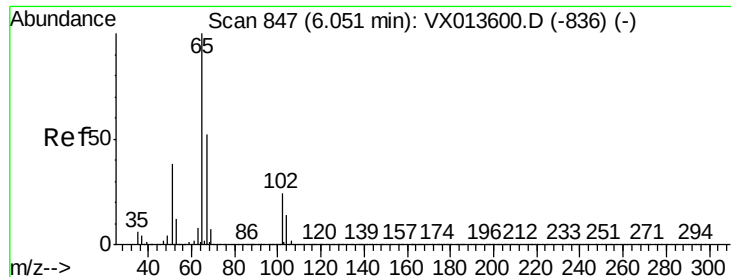
Tgt Ion: 83 Resp: 6214
Ion Ratio Lower Upper
83 100
85 61.5 50.2 75.4



#32
1,1,1-Trichloroethane
Concen: 0.478 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Tgt Ion: 97 Resp: 4272
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 44.7 36.1 54.1

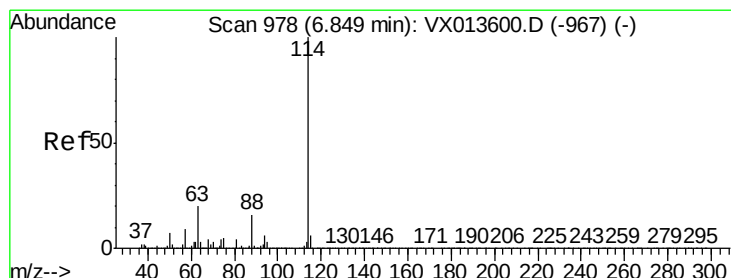
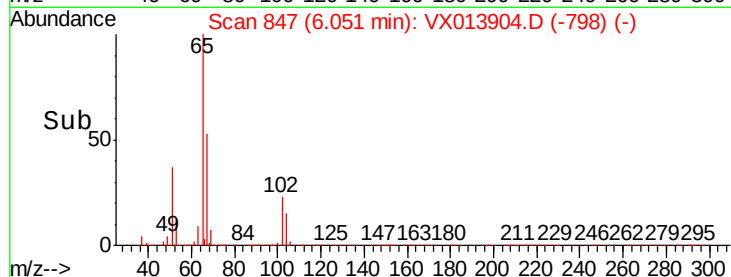
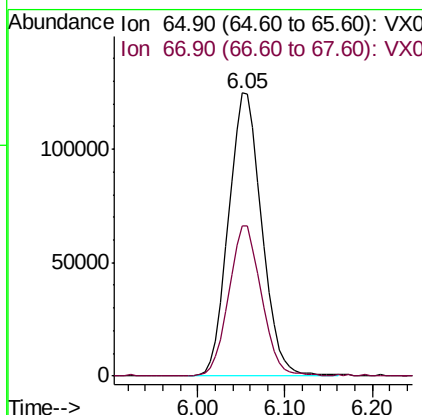
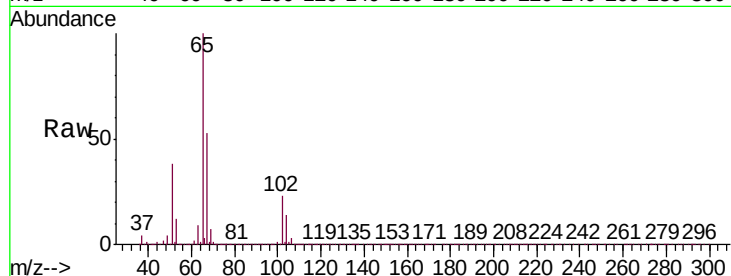




#33
 1,2-Dichloroethane-d4
 Concen: 49.161 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013904.D
 Acq: 10 Dec 2019 17:33

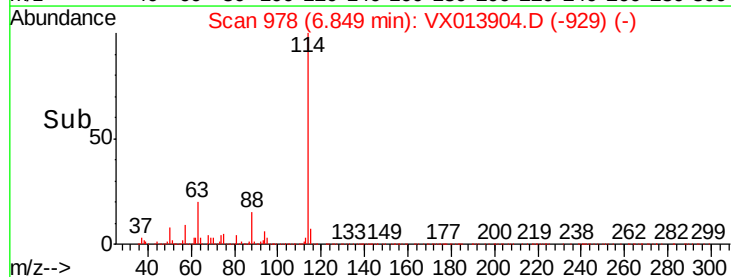
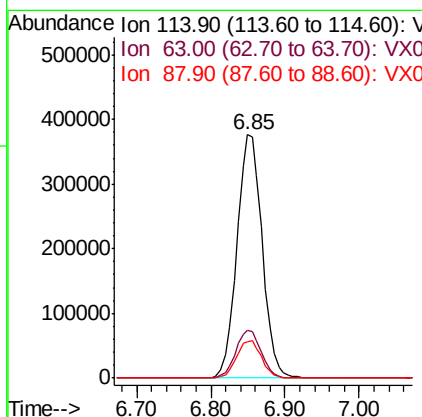
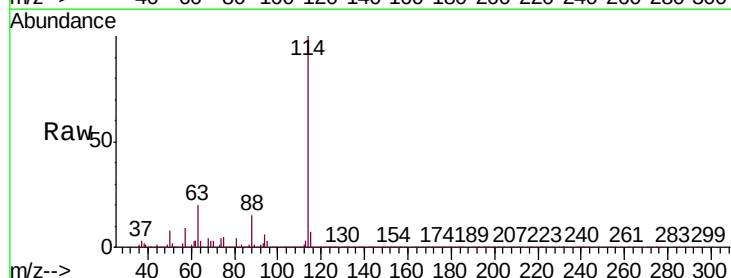
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20191205

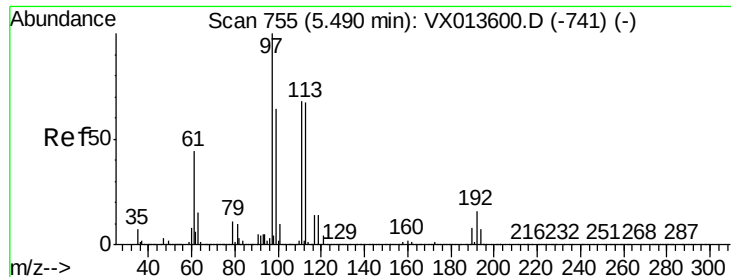
Tgt Ion: 65 Resp: 330824
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013904.D
 Acq: 10 Dec 2019 17:33

Tgt Ion: 114 Resp: 893379
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.6
 88 15.0 0.0 31.4

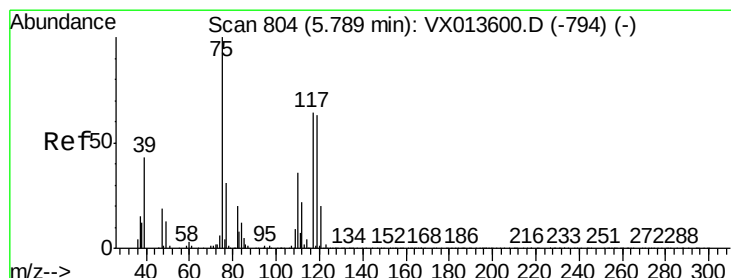
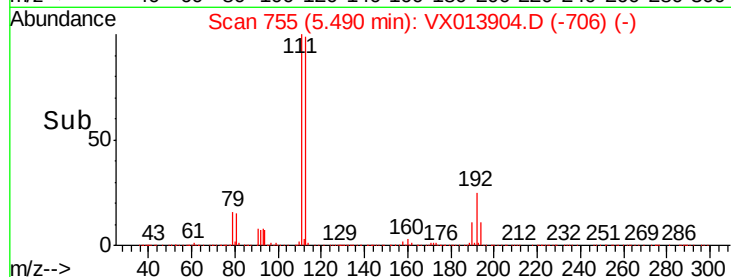
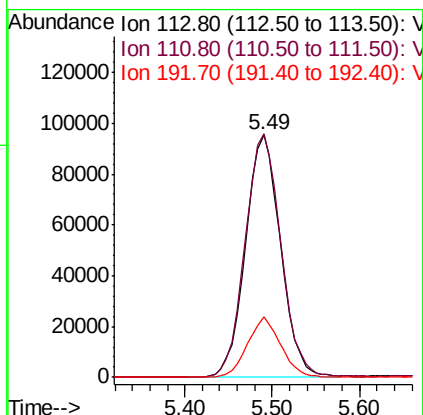
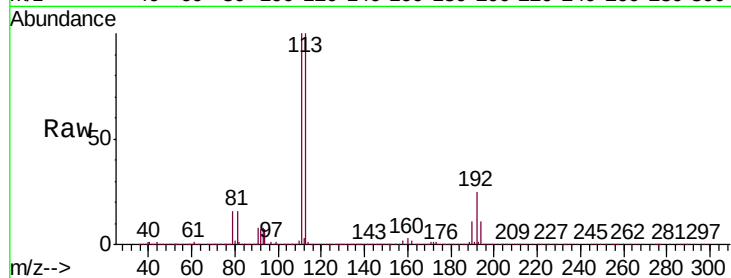




#35
Dibromofluoromethane
Concen: 48.025 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

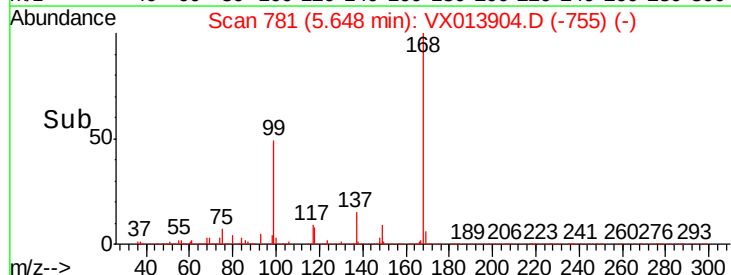
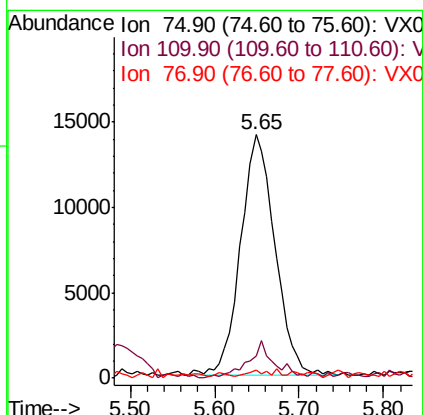
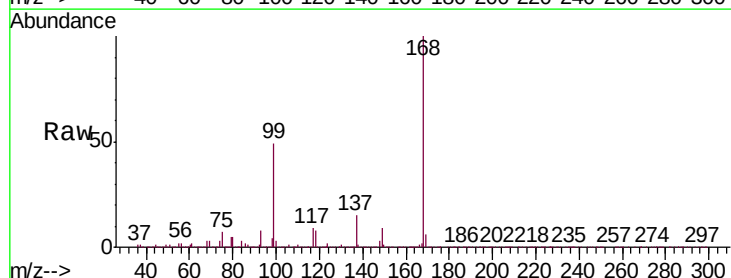
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20191205

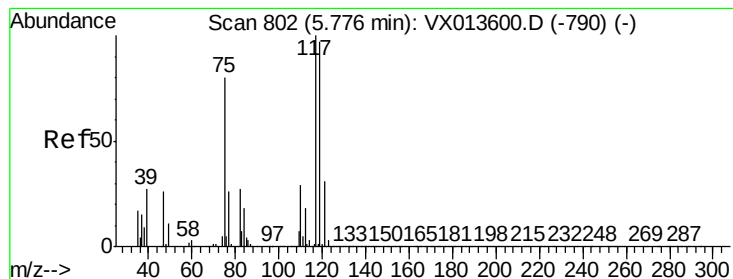
Tgt Ion:113 Resp: 265240
Ion Ratio Lower Upper
113 100
111 102.9 83.6 125.4
192 23.8 19.2 28.8



#36
1,1-Dichloropropene
Concen: 4.837 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Tgt Ion: 75 Resp: 39226
Ion Ratio Lower Upper
75 100
110 11.7 18.1 54.1#
77 1.5 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 0.557 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20191205

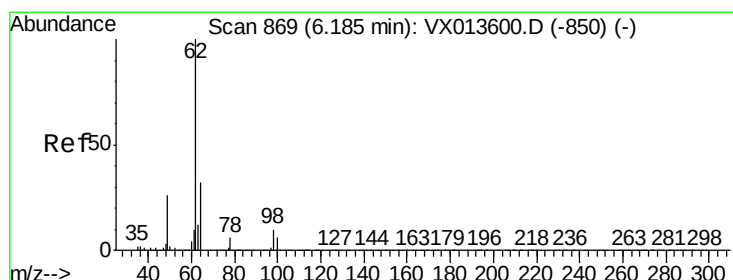
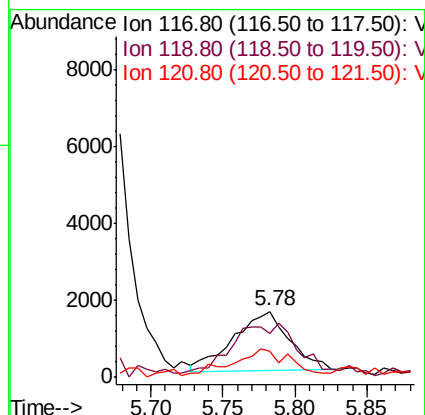
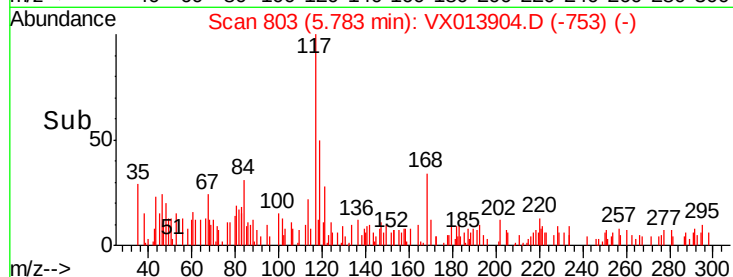
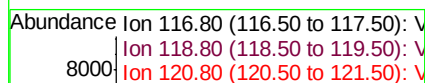
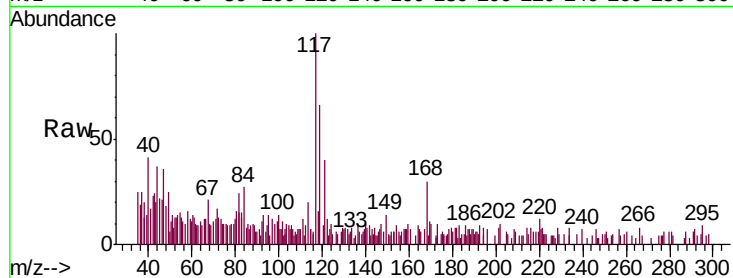
Tgt Ion:117 Resp: 4165

Ion Ratio Lower Upper

117 100

119 66.7 77.5 116.3#

121 40.4 25.0 37.6#



#42

1,2-Dichloroethane

Concen: 0.377 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX013904.D

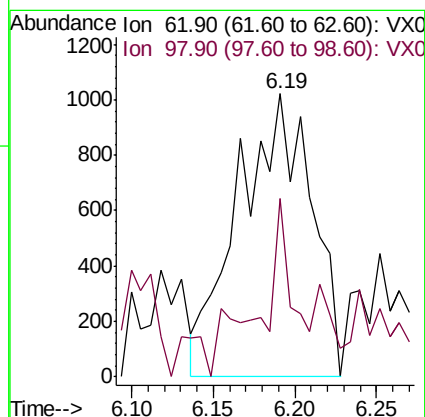
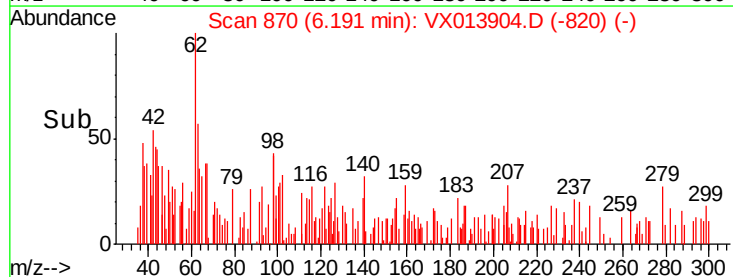
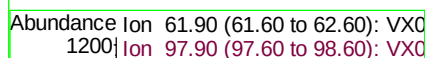
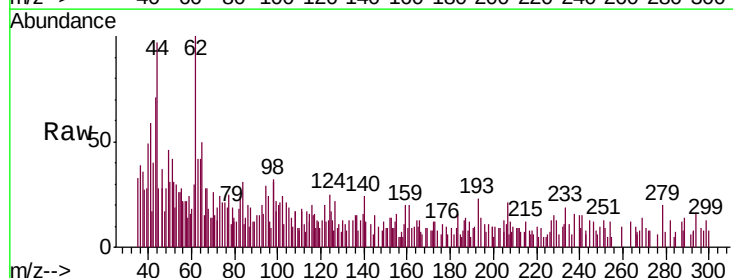
Acq: 10 Dec 2019 17:33

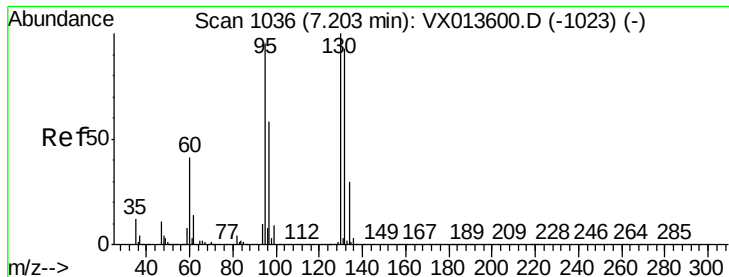
Tgt Ion: 62 Resp: 3177

Ion Ratio Lower Upper

62 100

98 12.5 0.0 20.8





#44

Trichloroethene

Concen: 280.924 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

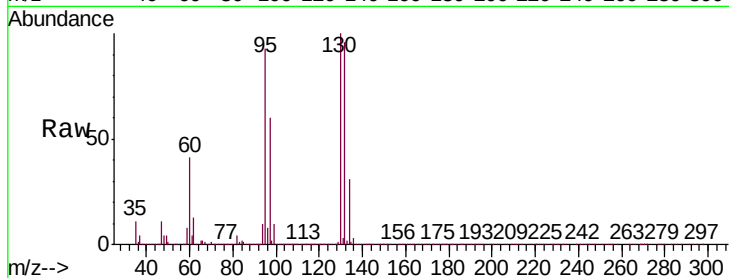
DUP03-20191205

Tgt Ion:130 Resp: 1904286

Ion Ratio Lower Upper

130 100

95 93.2 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

1000000

800000

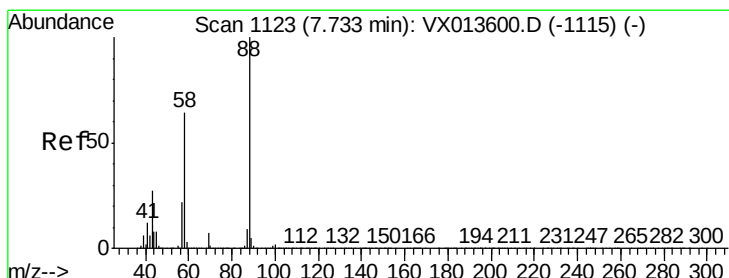
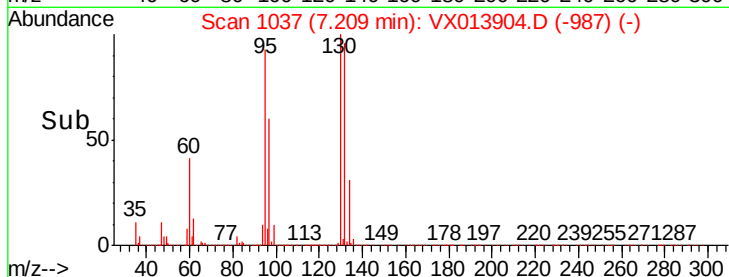
600000

400000

200000

0

Time-->



#49

1,4-Dioxane

Concen: 26.256 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

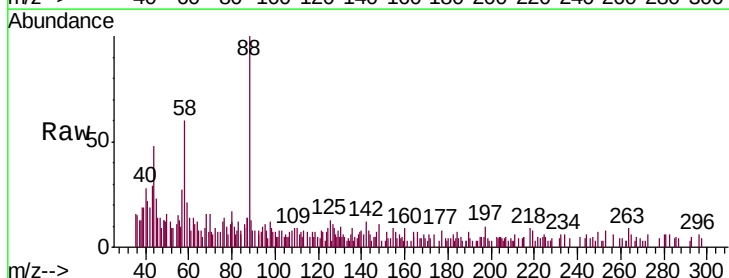
Tgt Ion: 88 Resp: 4277

Ion Ratio Lower Upper

88 100

43 11.2 25.8 38.6#

58 91.0 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

2500

2000

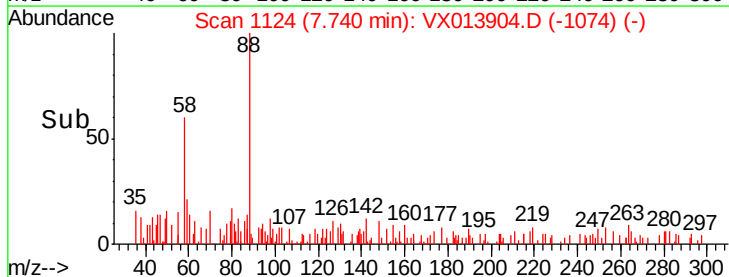
1500

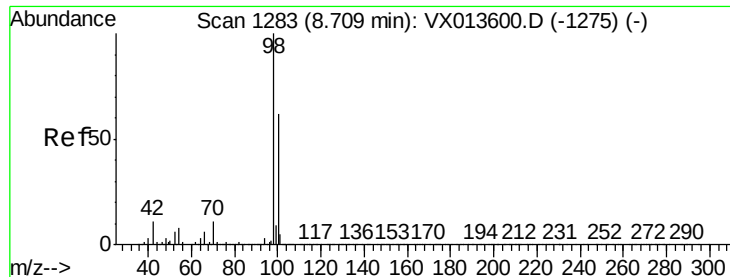
1000

500

0

Time-->





#50

Toluene-d8

Concen: 49.262 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

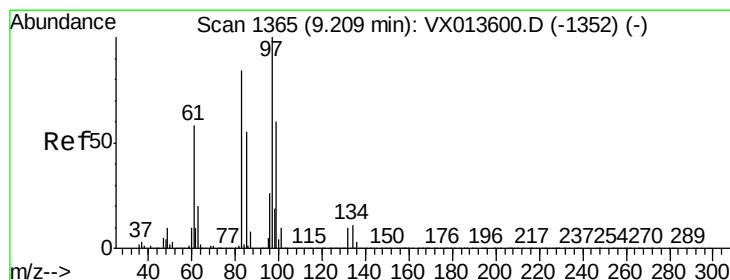
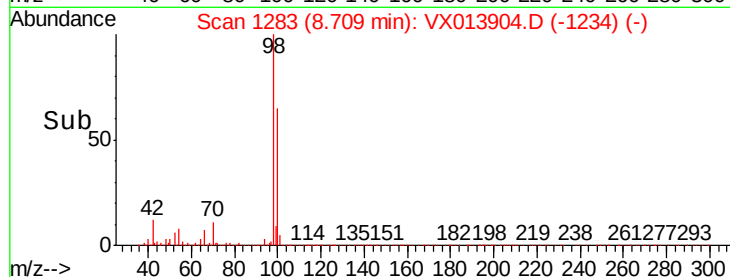
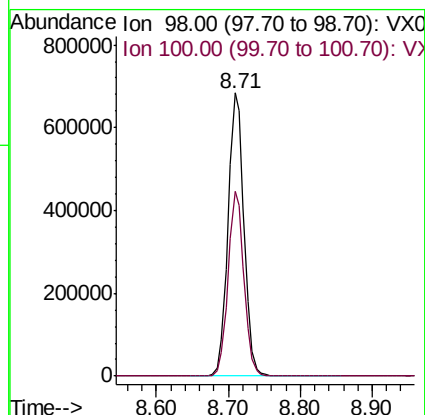
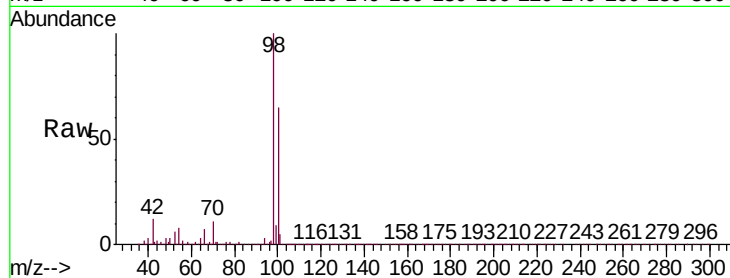
DUP03-20191205

Tgt Ion: 98 Resp: 1060031

Ion Ratio Lower Upper

98 100

100 64.6 53.1 79.7



#55

1,1,2-Trichloroethane

Concen: 0.452 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Tgt Ion: 97 Resp: 2796

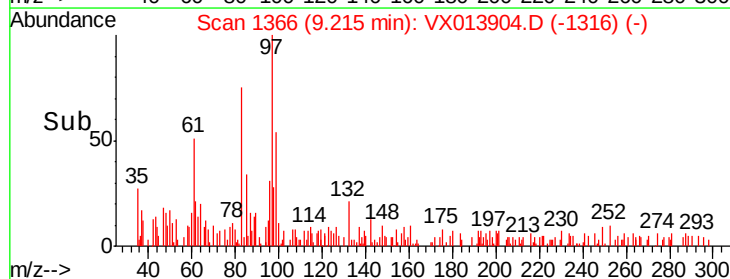
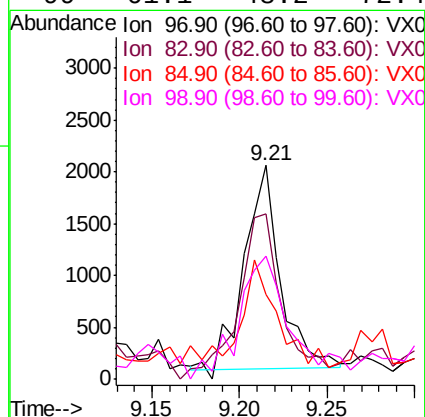
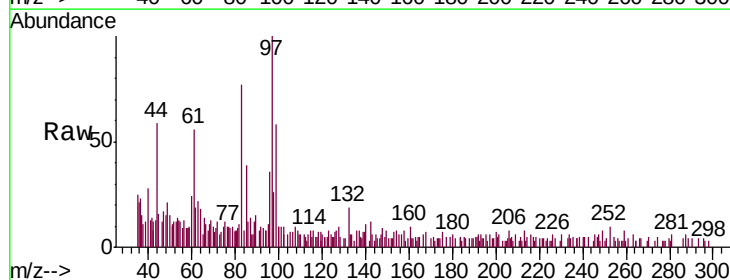
Ion Ratio Lower Upper

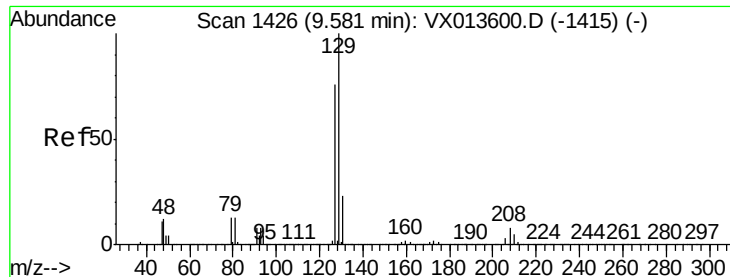
97 100

83 76.9 67.3 100.9

85 33.9 43.6 65.4#

99 61.1 48.2 72.4





#60

Dibromochloromethane

Concen: 3.461 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

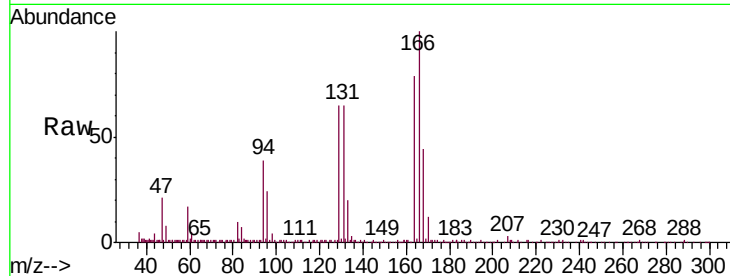
DUP03-20191205

Tgt Ion:129 Resp: 22211

Ion Ratio Lower Upper

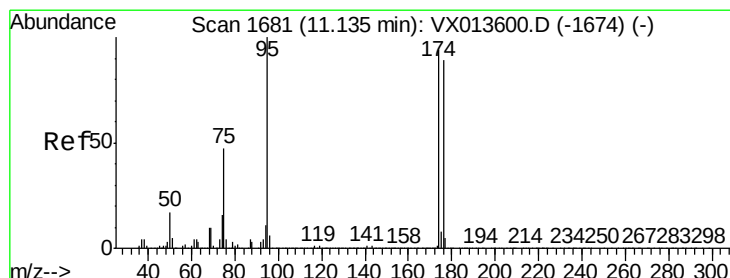
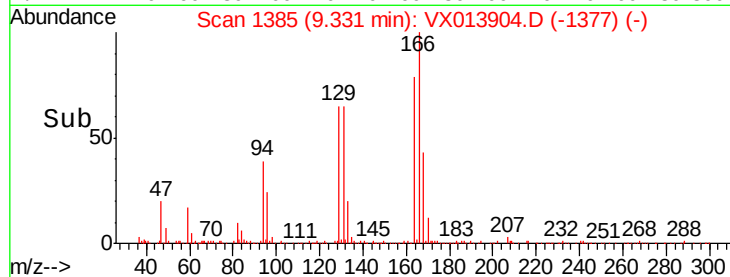
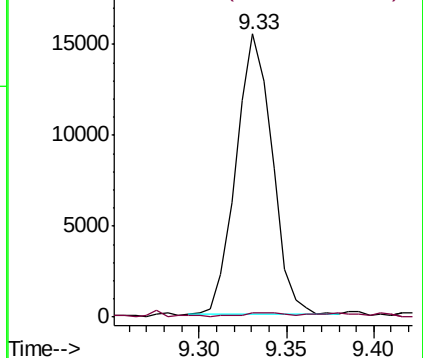
129 100

127 1.1 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.472 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

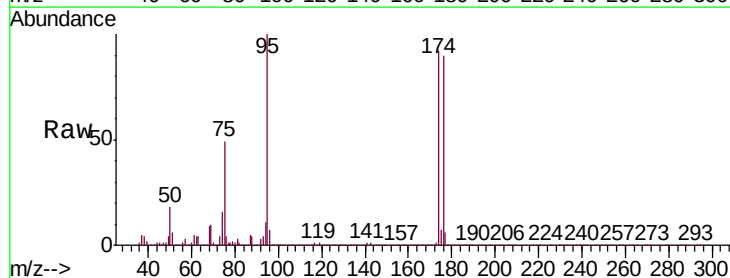
Tgt Ion: 95 Resp: 345084

Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

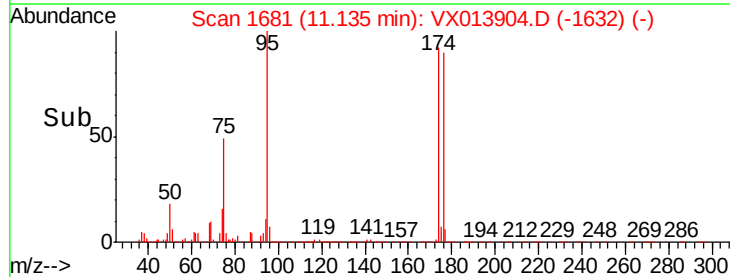
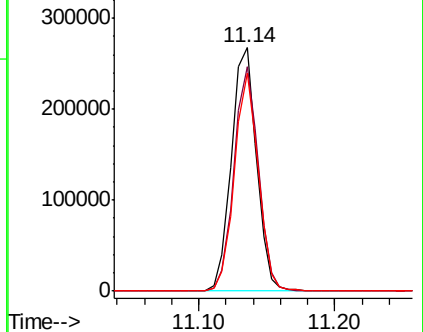
176 85.6 0.0 173.6

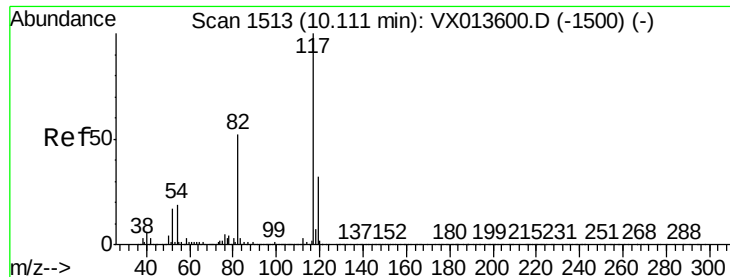


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

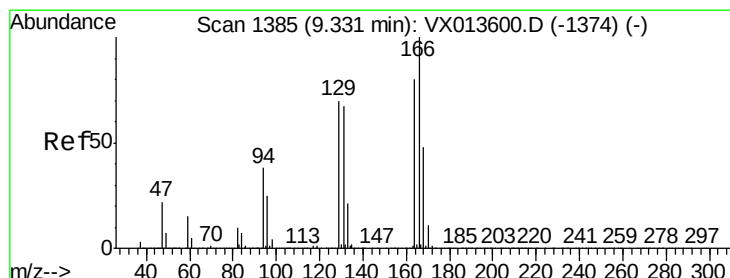
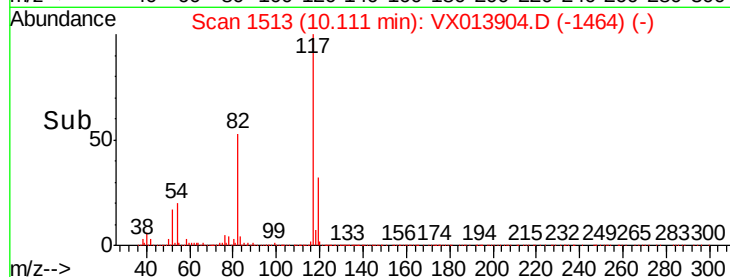
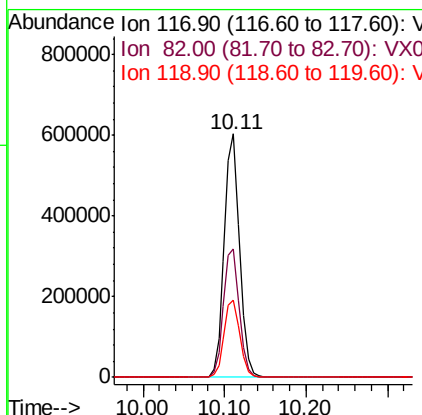
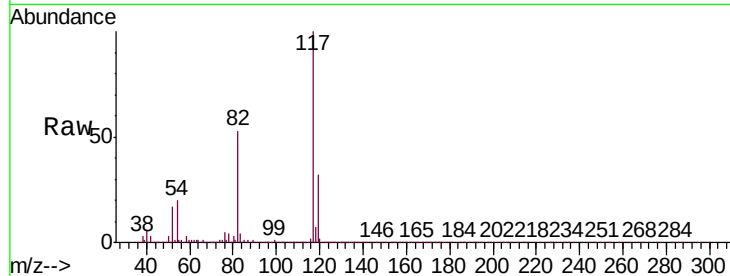




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

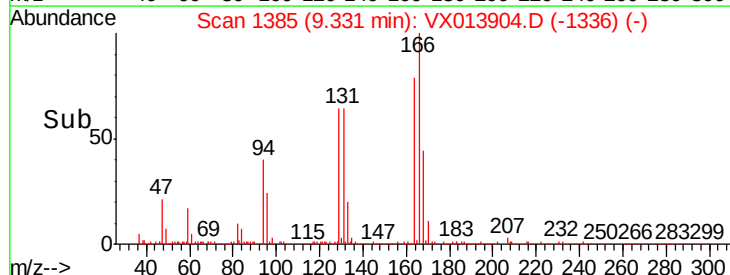
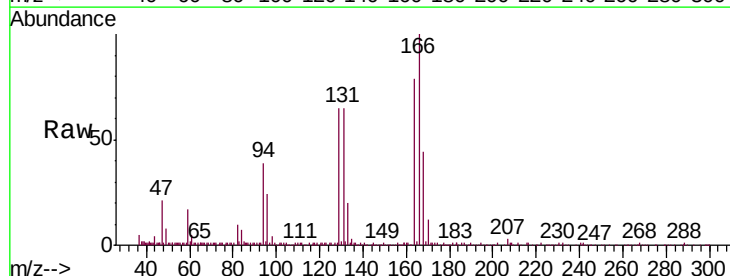
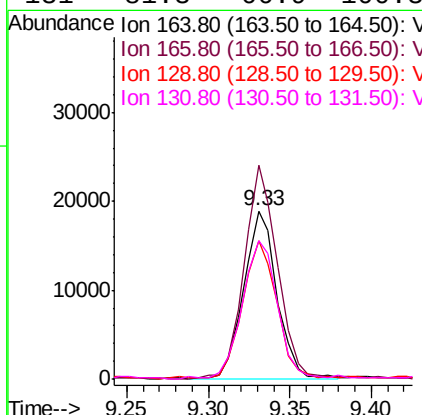
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20191205

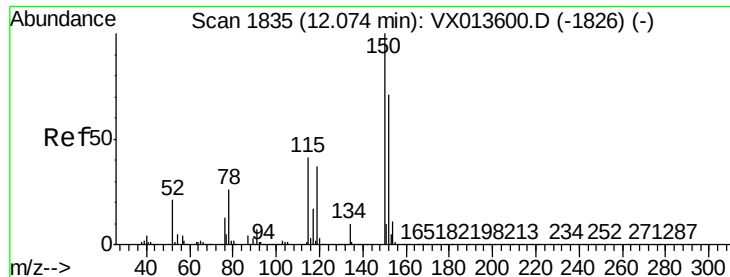
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	41.8	62.8
119	31.7	25.8	38.8



#64
Tetrachloroethene
Concen: 4.548 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013904.D
Acq: 10 Dec 2019 17:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.2	99.7	149.5
129	82.0	70.1	105.1
131	81.3	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: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20191205

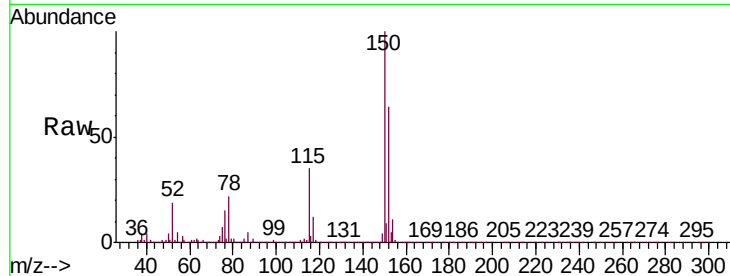
Tgt Ion:152 Resp: 338214

Ion Ratio Lower Upper

152 100

115 55.6 38.4 115.1

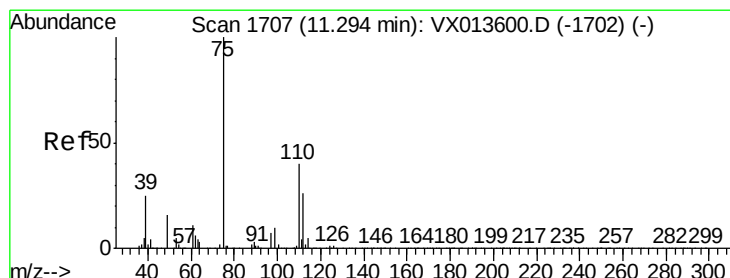
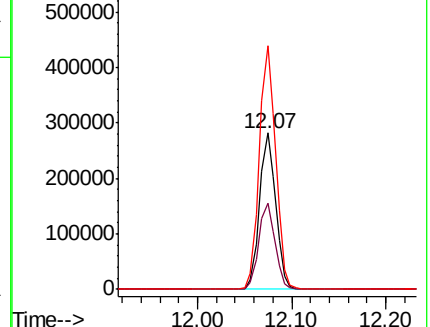
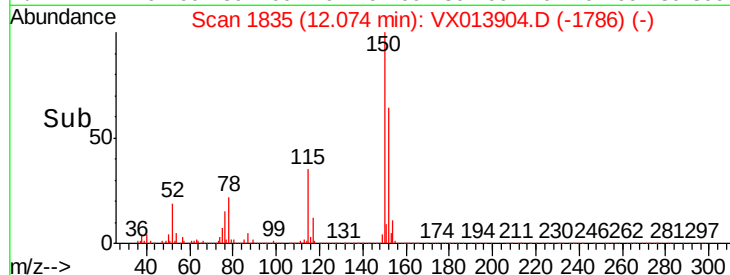
150 156.9 0.0 346.8



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: 22.354 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013904.D

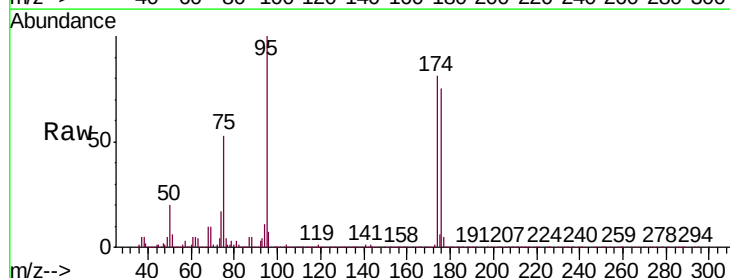
Acq: 10 Dec 2019 17:33

Tgt Ion: 75 Resp: 170050

Ion Ratio Lower Upper

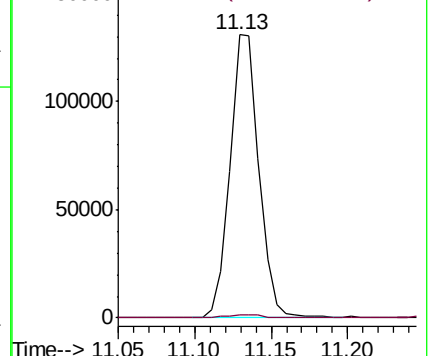
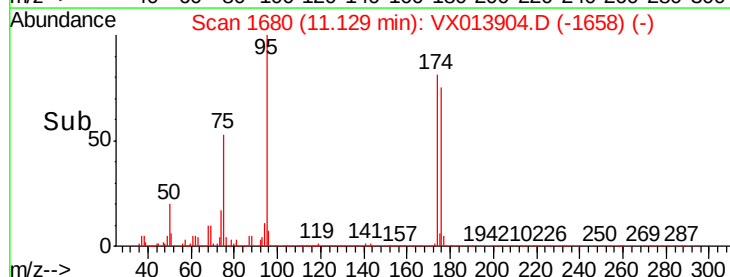
75 100

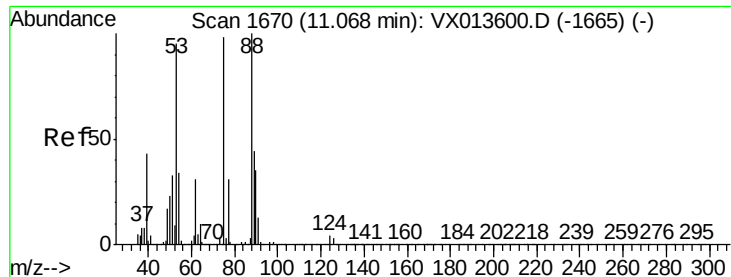
77 1.3 19.1 57.5#



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: 61.157 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013904.D

Acq: 10 Dec 2019 17:33

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20191205

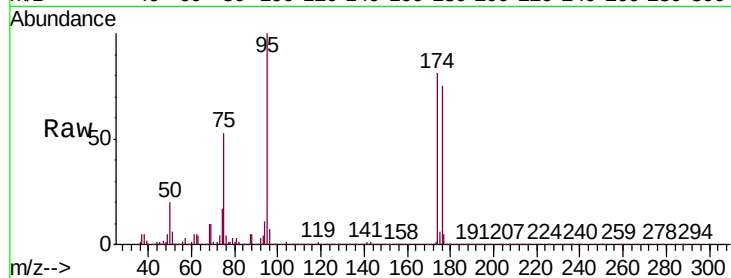
Tgt Ion: 75 Resp: 170050

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

89 0.1 35.4 53.2#



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

