

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137884.D
 Acq On : 10 Dec 2019 05:01
 Operator : JC/SP
 Sample : K6186-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 06:06:29 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	600288	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	922249	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	834243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	367124	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	334288	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	5.49	113	276674	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.71	98	1108516	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.14	95	365201	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

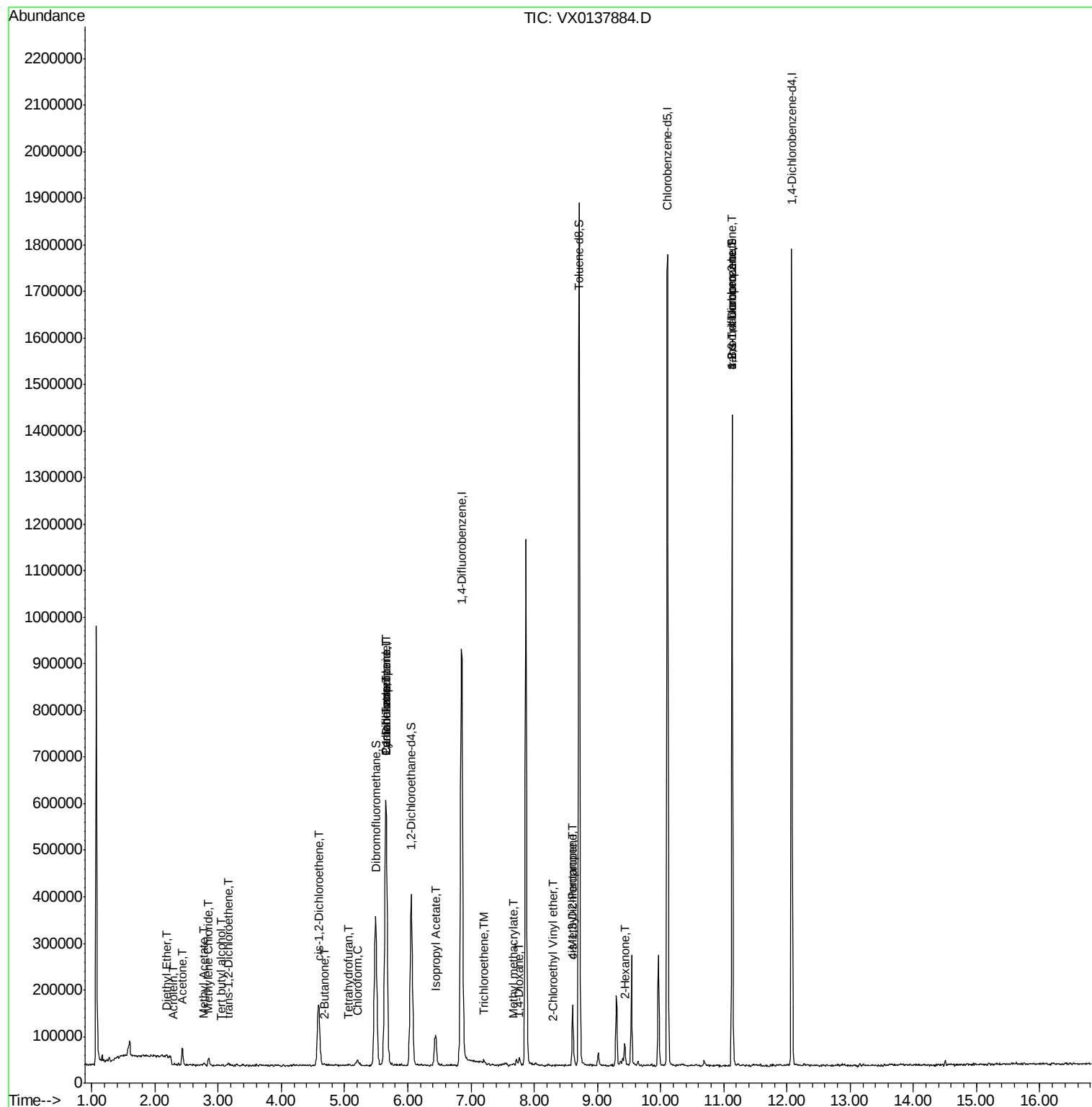
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.18	74	2024	0.477	ug/l	95
11) Tert butyl alcohol	3.03	59	1417	0.824	ug/l #	1
13) Acrolein	2.28	56	408	6.350	ug/l #	83
16) Acetone	2.43	43	41561	12.081	ug/l	95
18) Methyl Acetate	2.76	43	5708	0.596	ug/l	98
20) Methylene Chloride	2.84	84	9546	1.444	ug/l	94
21) trans-1,2-Dichloroethene	3.15	96	2995	0.481	ug/l #	78
25) 2-Butanone	4.67	43	6617	1.294	ug/l #	87
27) cis-1,2-Dichloroethene	4.59	96	85333	11.940	ug/l	90
29) Tetrahydrofuran	5.07	42	663	0.210	ug/l	90
30) Chloroform	5.20	83	13117	1.185	ug/l	93
31) Cyclohexane	5.65	56	11016	1.070	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	41786	4.991	ug/l #	51
38) Carbon Tetrachloride	5.65	117	53691	6.955	ug/l #	14
43) Isopropyl Acetate	6.44	43	93686	6.059	ug/l	99
44) Trichloroethene	7.21	130	3379	0.483	ug/l	73
48) Methyl methacrylate	7.67	41	5551	0.739	ug/l #	28
49) 1,4-Dioxane	7.75	88	442	2.628	ug/l #	24
51) 4-Methyl-2-Pentanone	8.61	43	46910	4.823	ug/l #	47
54) cis-1,3-Dichloropropene	8.61	75	21576	2.118	ug/l #	58
58) 2-Chloroethyl Vinyl ether	8.31	63	837	0.208	ug/l #	64
59) 2-Hexanone	9.43	43	38156	5.030	ug/l #	24
76) 1,2,3-Trichloropropane	11.14	75	177686	21.519	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	177686	58.871	ug/l #	11

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

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Quant Method : Z:\V0ASRV\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: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

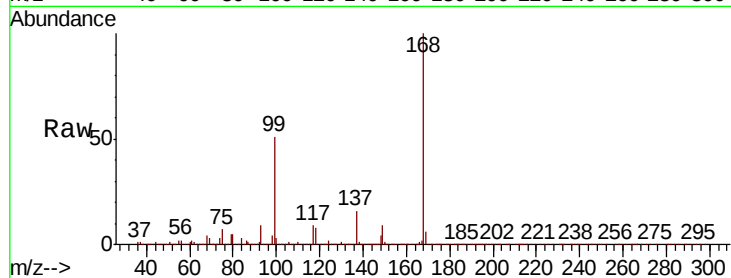
ClientSampleId :

Tot Ion:168 Resp: 600288

Ion Ratio Lower Upper

168 100

99 51.2 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

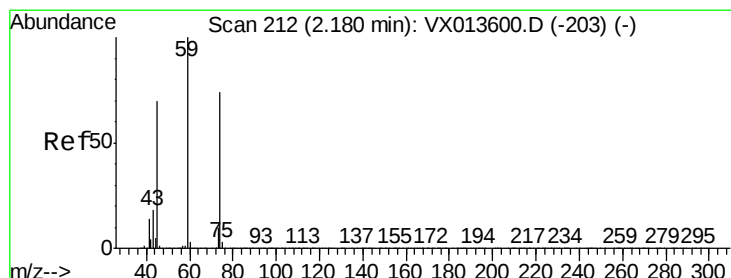
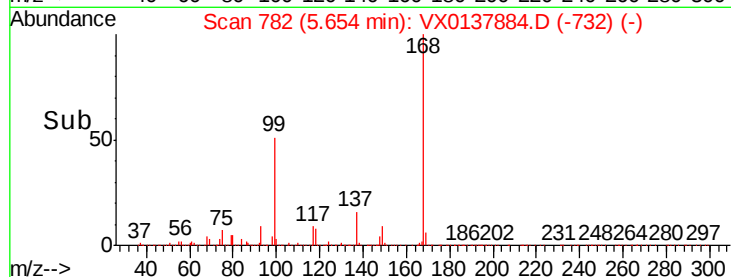
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.477 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX0137884.D

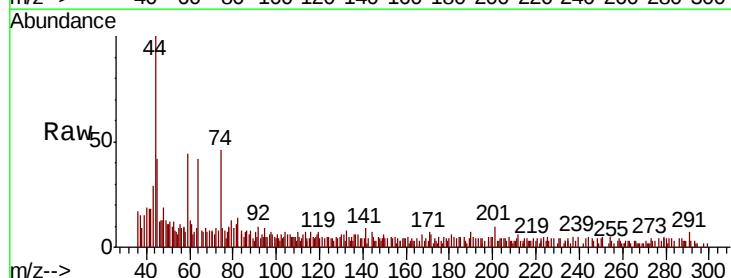
Acq: 10 Dec 2019 05:01

Tgt Ion: 74 Resp: 2024

Ion Ratio Lower Upper

74 100

45 92.9 48.9 146.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

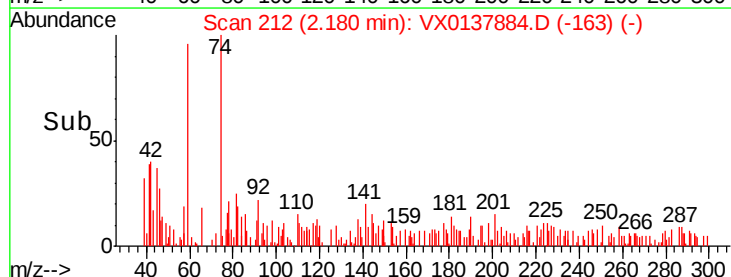
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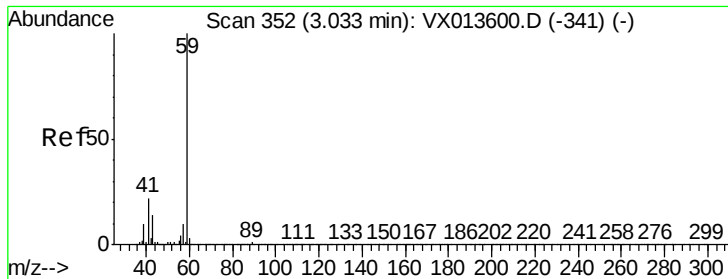
1000

500

0

Time-->

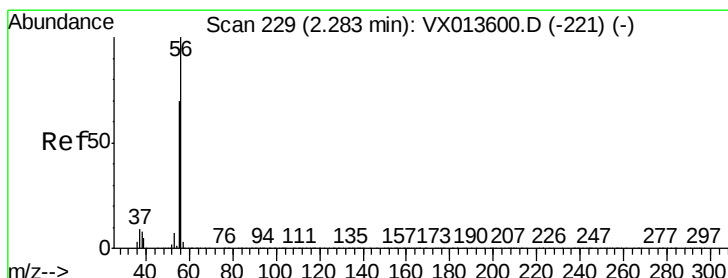
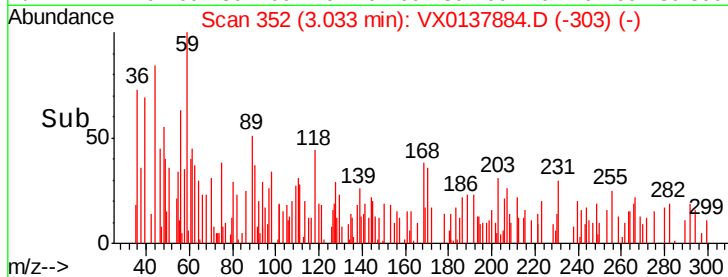
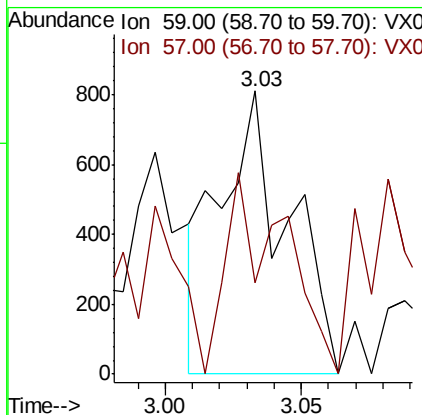
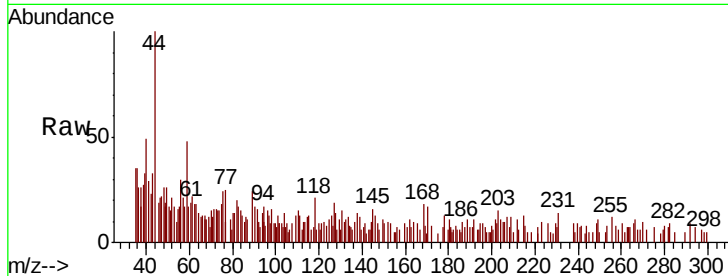




#11
Tert butyl alcohol
Concen: 0.824 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

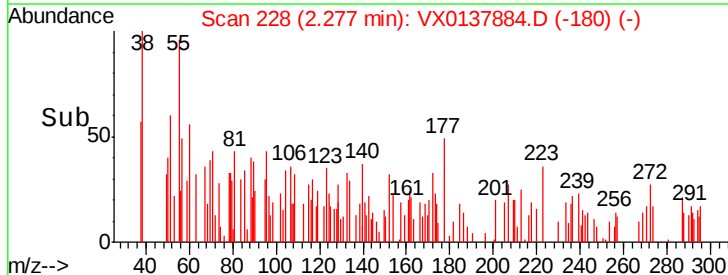
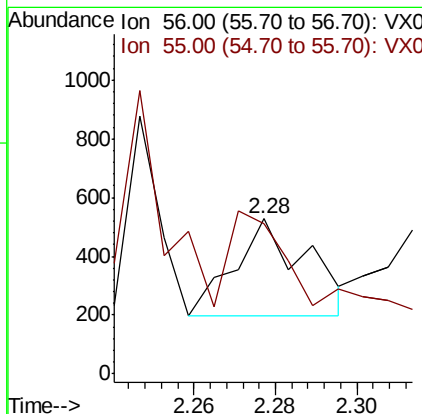
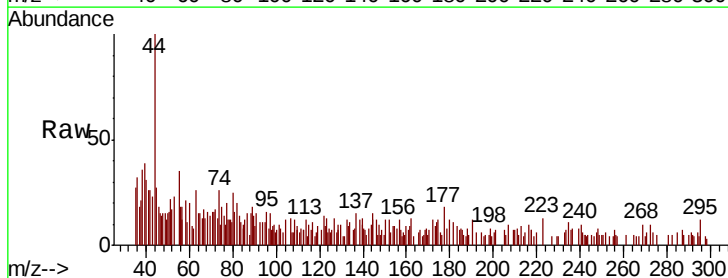
Instrument :
MSVOA_X
ClientSampled :

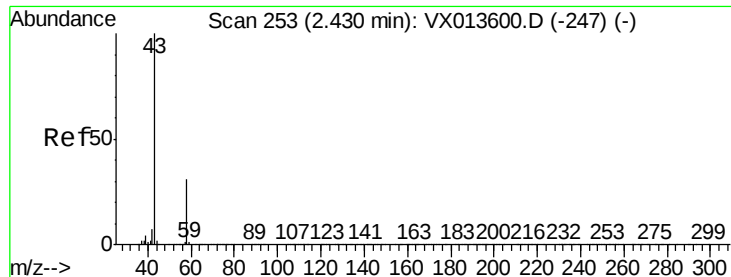
Tot Ion: 59 Resp: 1417
Ion Ratio Lower Upper
59 100
57 60.2 7.8 11.6#



#13
Acrolein
Concen: 6.350 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion: 56 Resp: 408
Ion Ratio Lower Upper
56 100
55 84.6 56.2 84.4#





#16

Acetone

Concen: 12.081 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

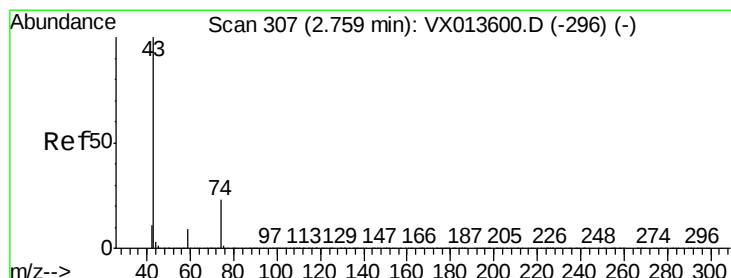
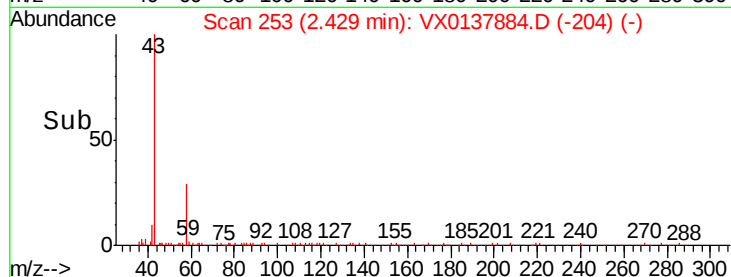
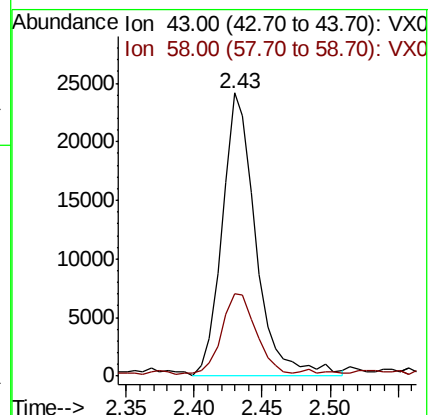
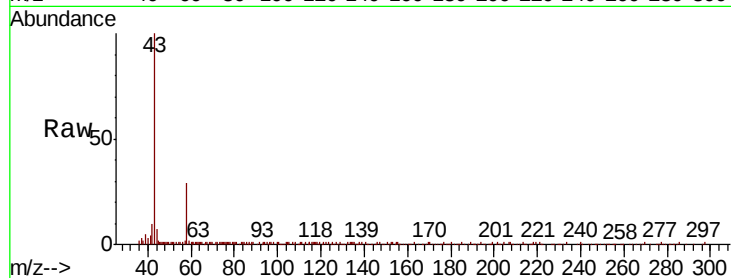
ClientSampled :

Tot Ion: 43 Resp: 41561

Ion Ratio Lower Upper

43 100

58 27.9 24.6 36.8



#18

Methyl Acetate

Concen: 0.596 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.01 min

Lab File: VX0137884.D

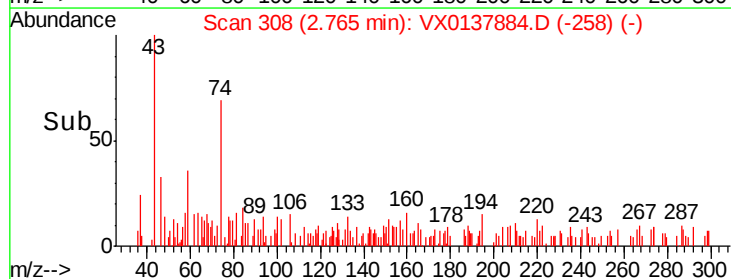
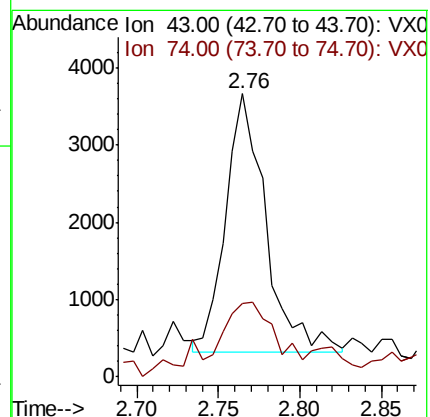
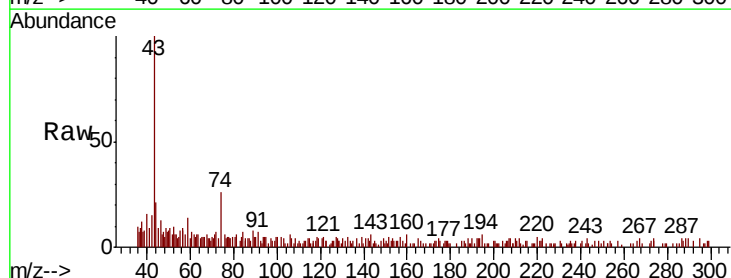
Acq: 10 Dec 2019 05:01

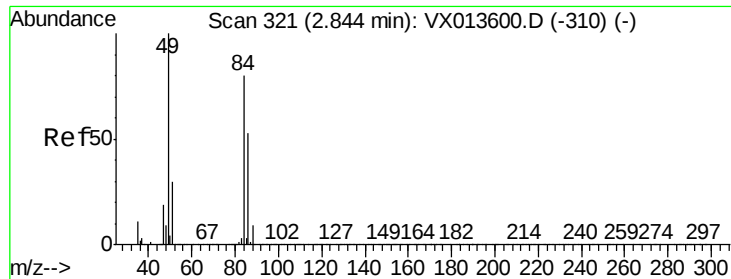
Tgt Ion: 43 Resp: 5708

Ion Ratio Lower Upper

43 100

74 25.6 19.5 29.3

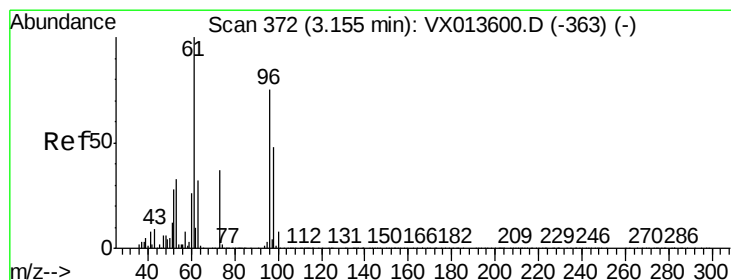
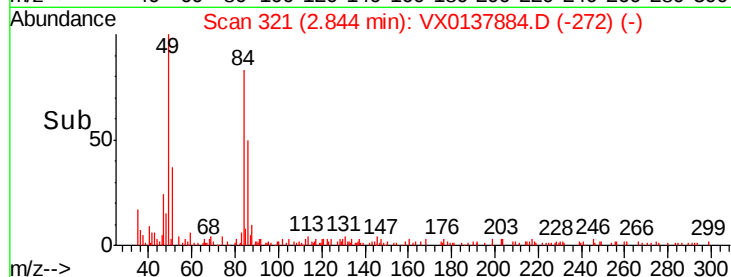
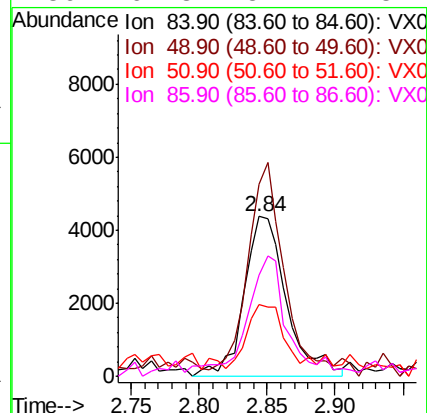
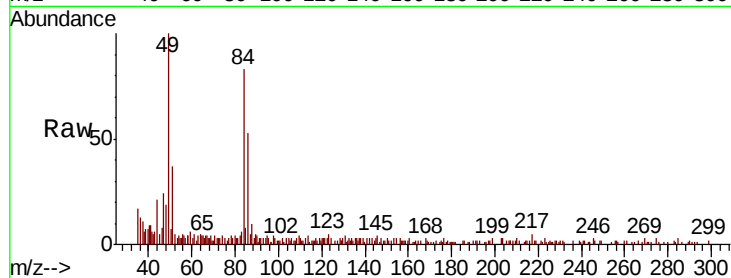




#20
Methvlene Chloride
Concen: 1.444 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

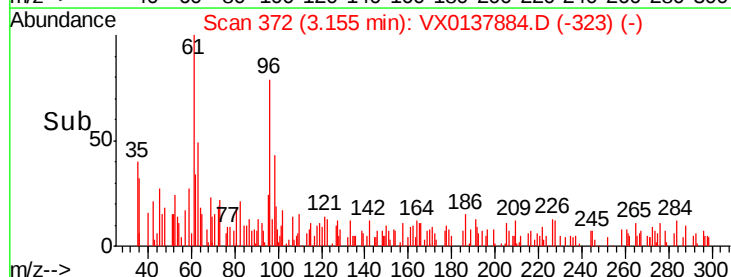
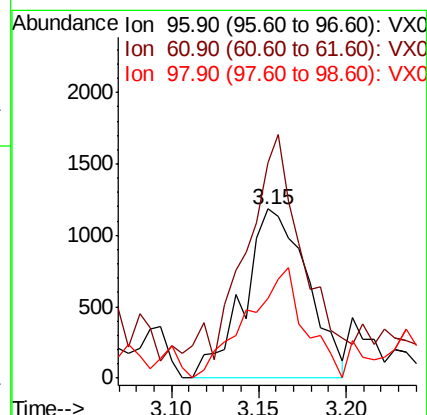
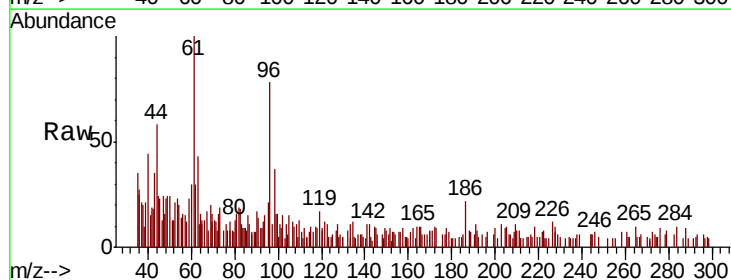
Instrument :
MSVOA_X
ClientSampleId :

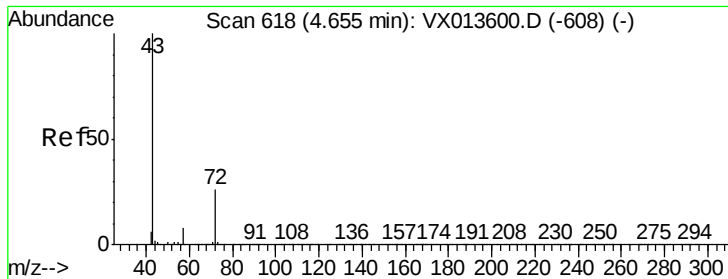
Tot Ion:	84	Resp:	9546
Ion	Ratio	Lower	Upper
84	100		
49	116.6	99.7	149.5
51	39.6	29.9	44.9
86	61.3	52.2	78.4



#21
trans-1,2-Dichloroethene
Concen: 0.481 ug/l
RT: 3.15 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion:	96	Resp:	2995
Ion	Ratio	Lower	Upper
96	100		
61	108.2	107.2	160.8
98	47.3	51.4	77.0#





#25

2-Butanone

Concen: 1.294 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

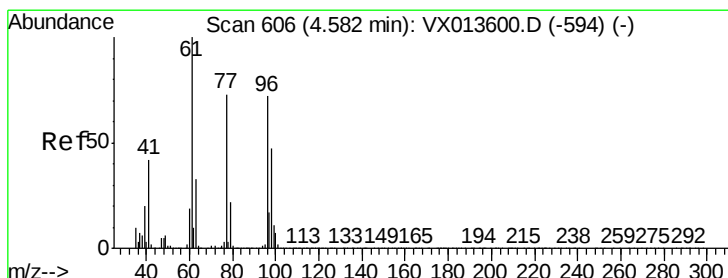
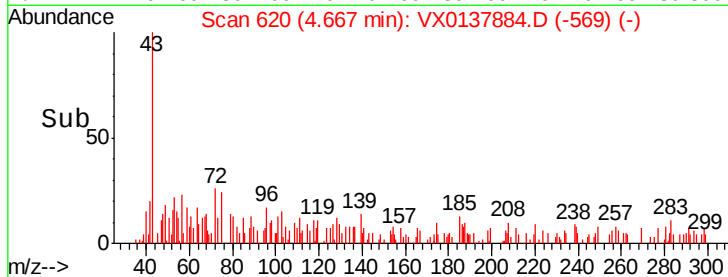
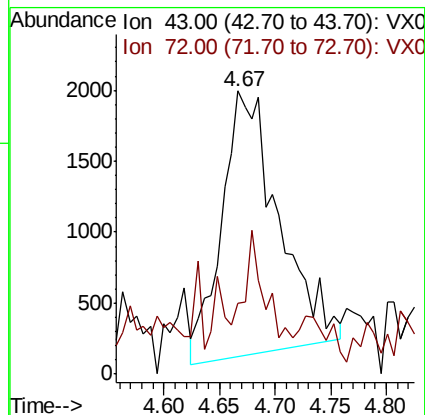
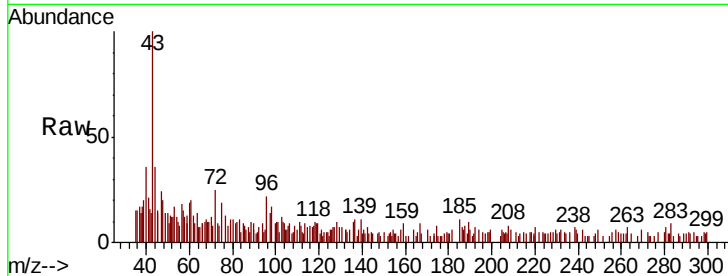
ClientSampled :

Tot Ion: 43 Resp: 6617

Ion Ratio Lower Upper

43 100

72 19.4 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 11.940 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

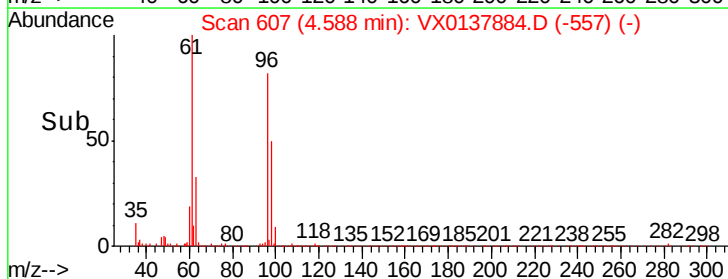
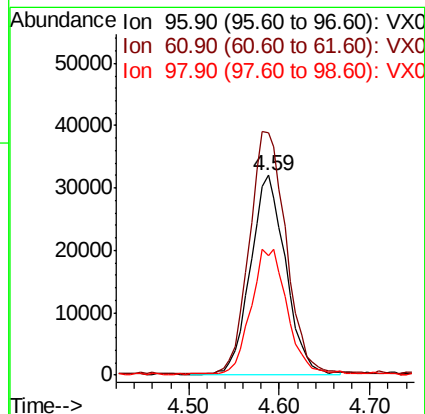
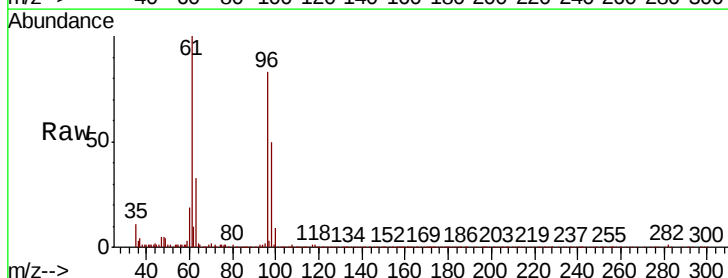
Tgt Ion: 96 Resp: 85333

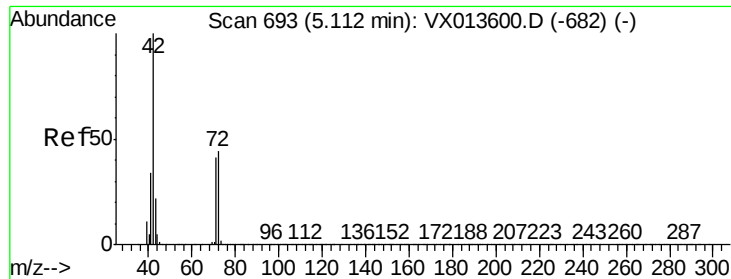
Ion Ratio Lower Upper

96 100

61 126.2 0.0 286.4

98 64.4 0.0 127.4





#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 5.07 min Scan# 686

Delta R.T. -0.04 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

ClientSampled :

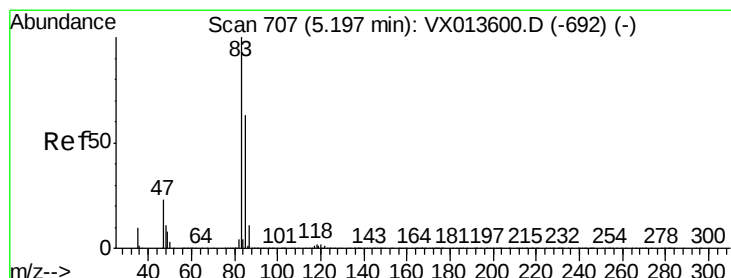
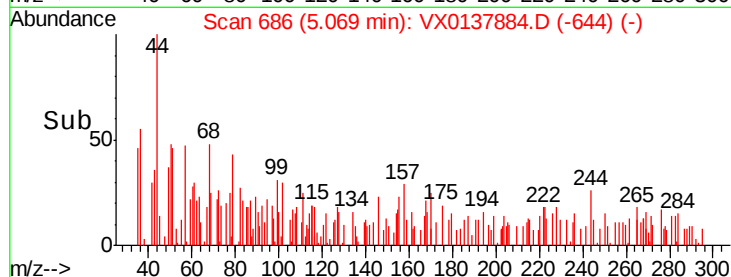
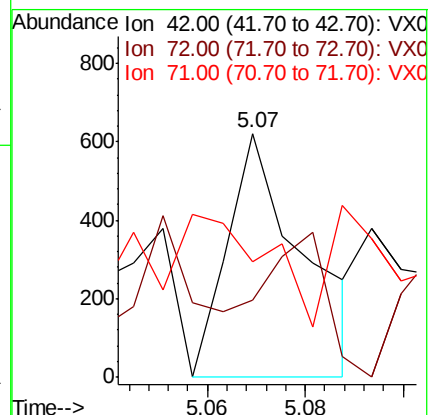
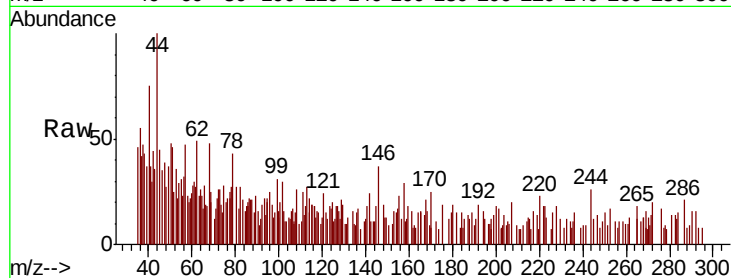
Tot Ion: 42 Resp: 663

Ion Ratio Lower Upper

42 100

72 51.1 36.3 54.5

71 48.9 33.2 49.8



#30

Chloroform

Concen: 1.185 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX0137884.D

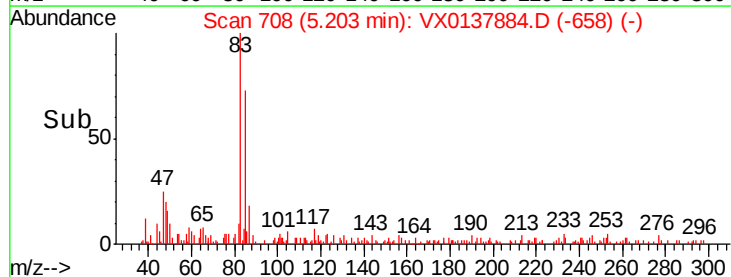
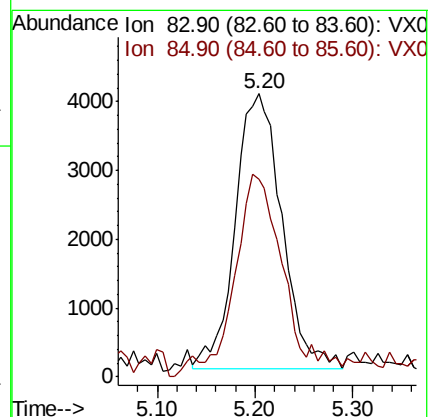
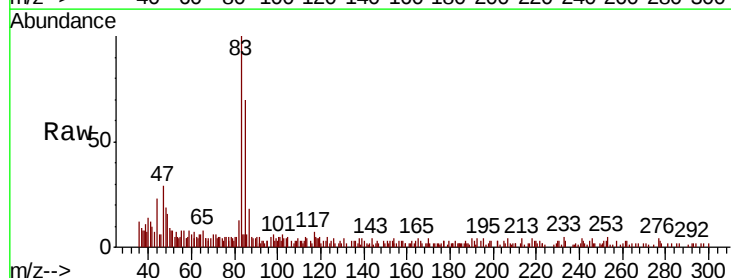
Acq: 10 Dec 2019 05:01

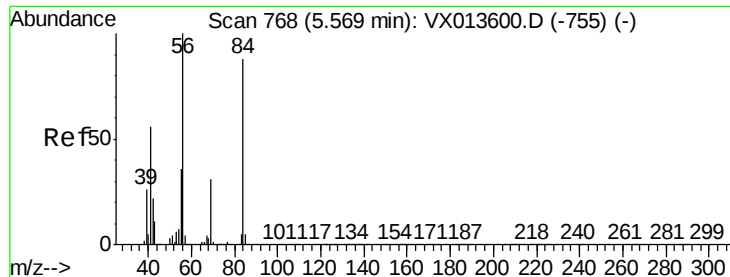
Tgt Ion: 83 Resp: 13117

Ion Ratio Lower Upper

83 100

85 68.1 50.2 75.4

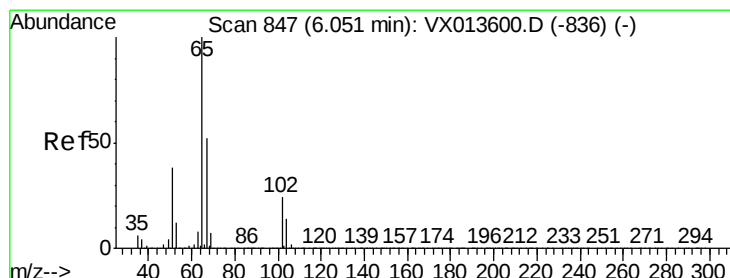
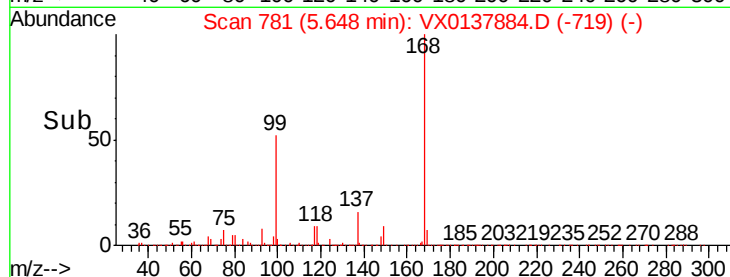
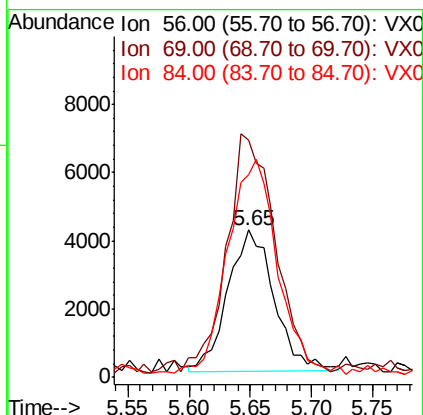
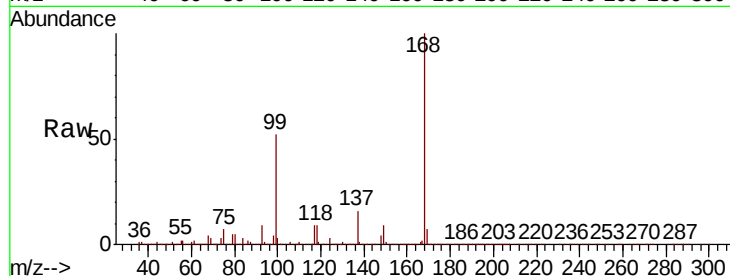




#31
Cyclohexane
Concen: 1.070 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

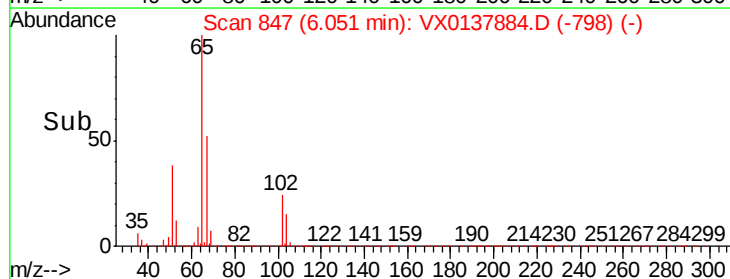
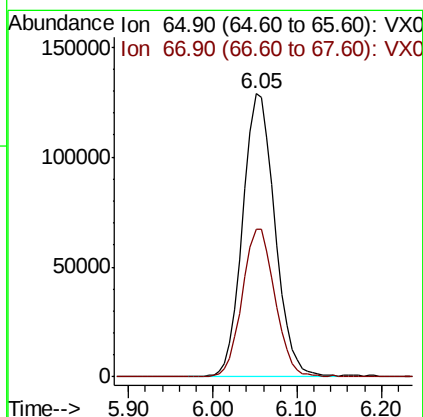
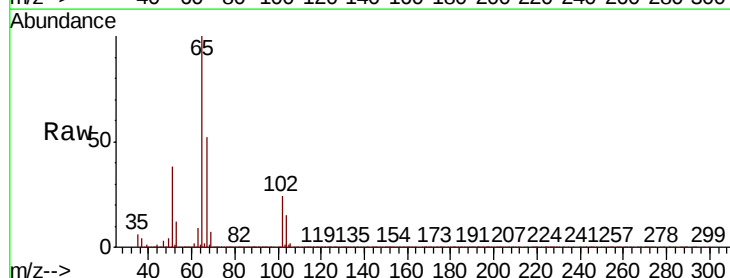
Instrument :
MSVOA_X
ClientSampleId :

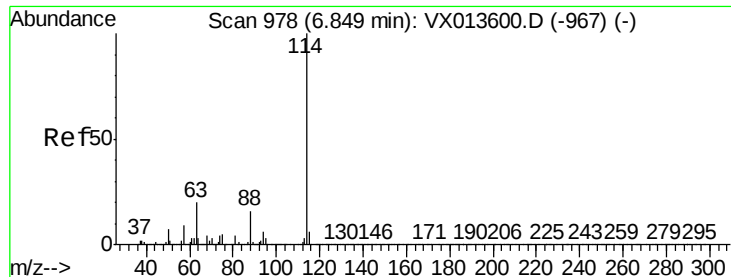
Tot Ion: 56 Resp: 11016
Ion Ratio Lower Upper
56 100
69 167.0 24.6 36.8#
84 139.1 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 47.975 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion: 65 Resp: 334288
Ion Ratio Lower Upper
65 100
67 52.8 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: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

ClientSampled :

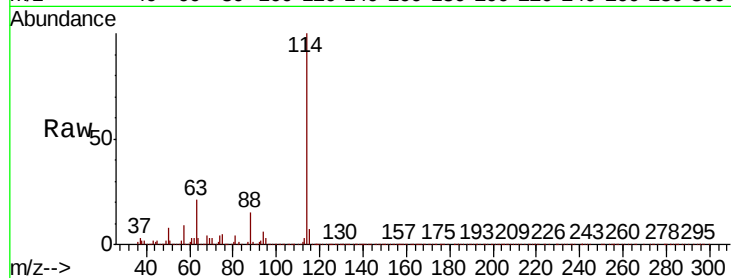
Tot Ion:114 Resp: 922249

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

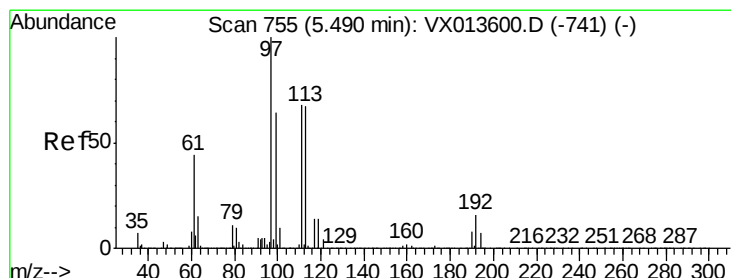
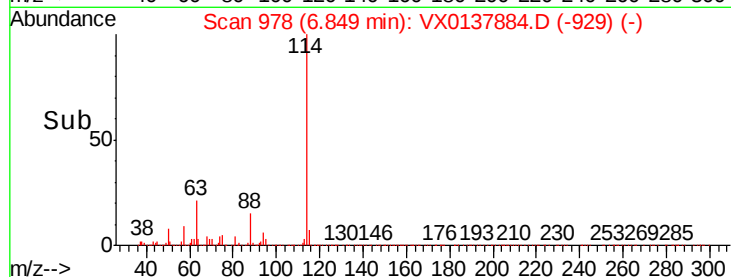
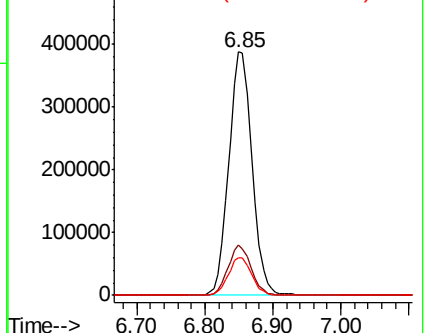
88 15.3 0.0 31.4



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: 48.527 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

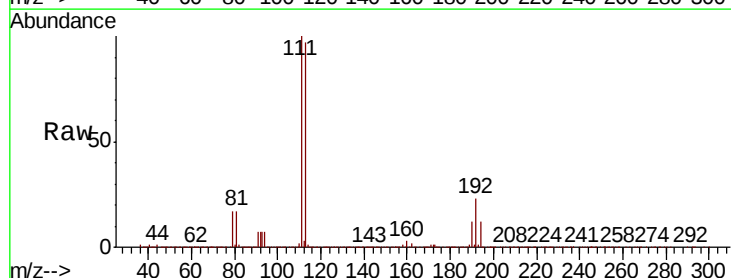
Tgt Ion:113 Resp: 276674

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

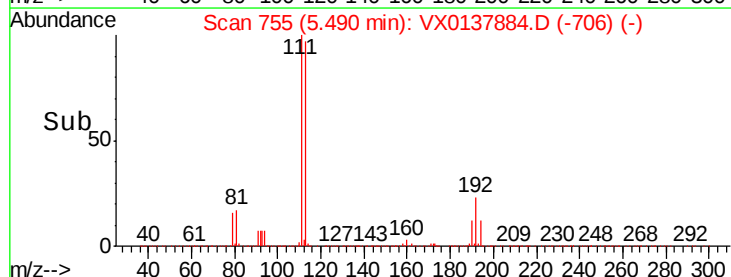
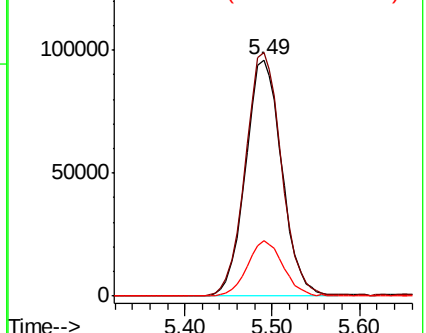
192 23.3 19.2 28.8

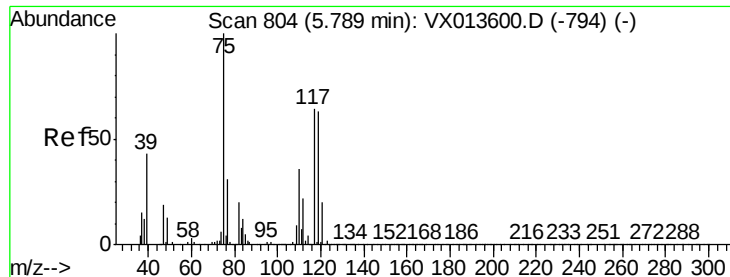


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

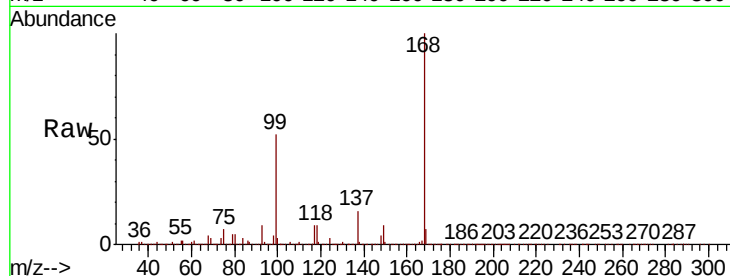




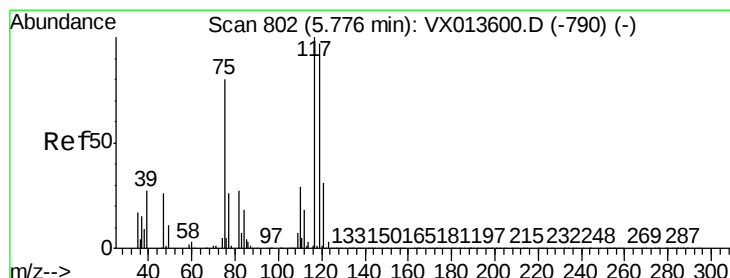
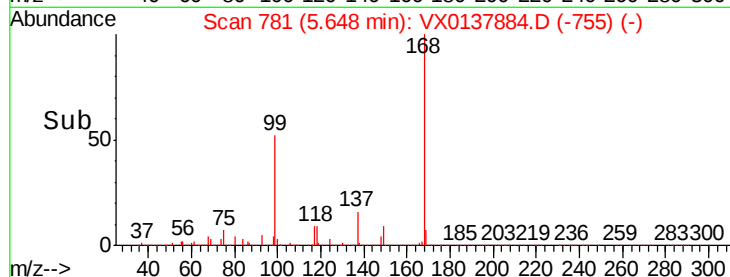
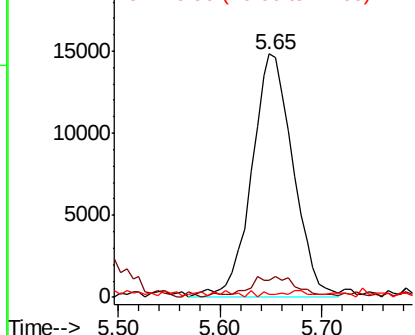
#36
 1,1-Dichloropropene
 Concen: 4.991 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX0137884.D
 Acq: 10 Dec 2019 05:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.1	54.1#
77	0.6	24.5	36.7#

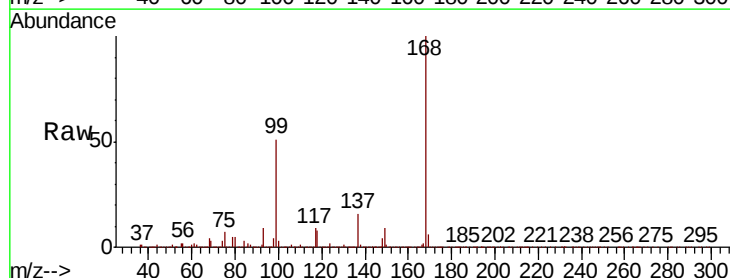


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

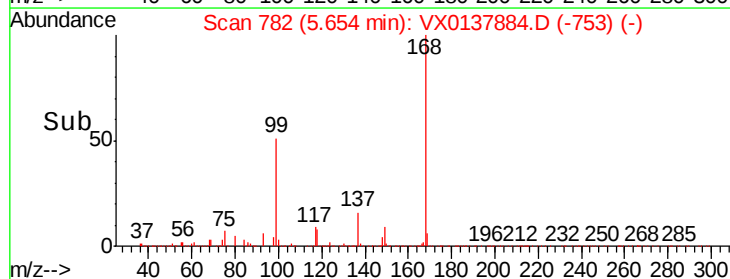
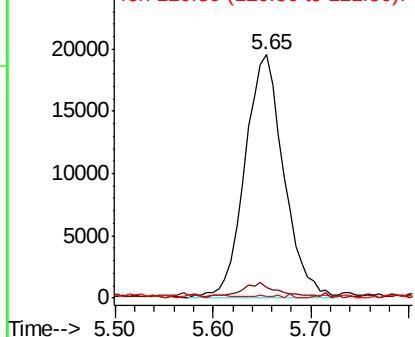


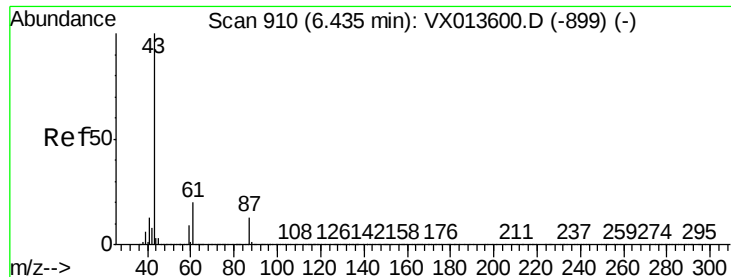
#38
 Carbon Tetrachloride
 Concen: 6.955 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX0137884.D
 Acq: 10 Dec 2019 05:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.7	77.5	116.3#
121	0.0	25.0	37.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 6.059 ug/l

RT: 6.44 min Scan# 911

Delta R.T. 0.01 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

ClientSampleId :

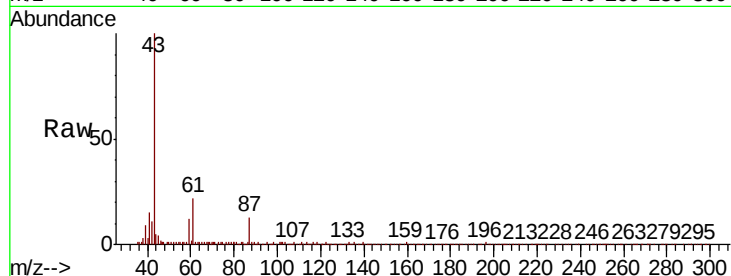
Tot Ion: 43 Resp: 93686

Ion Ratio Lower Upper

43 100

61 19.6 16.3 24.5

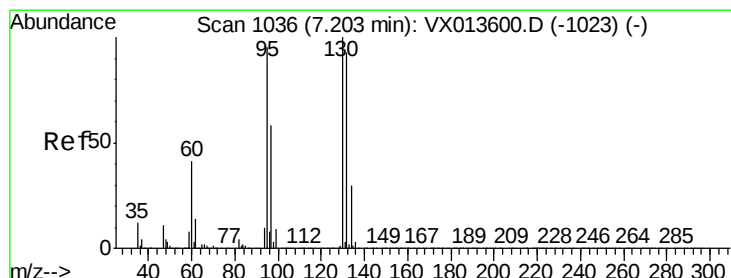
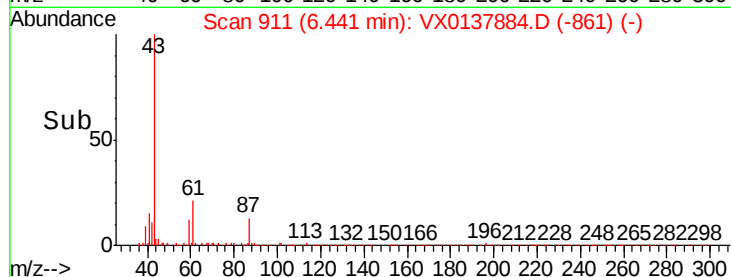
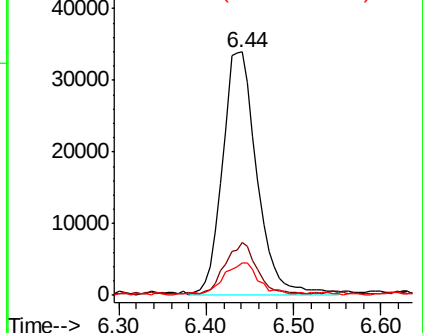
87 13.1 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: 0.483 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137884.D

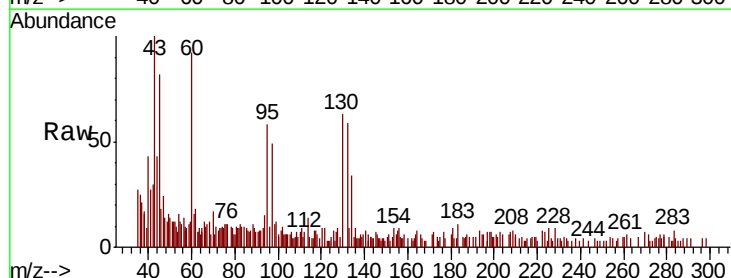
Acq: 10 Dec 2019 05:01

Tgt Ion:130 Resp: 3379

Ion Ratio Lower Upper

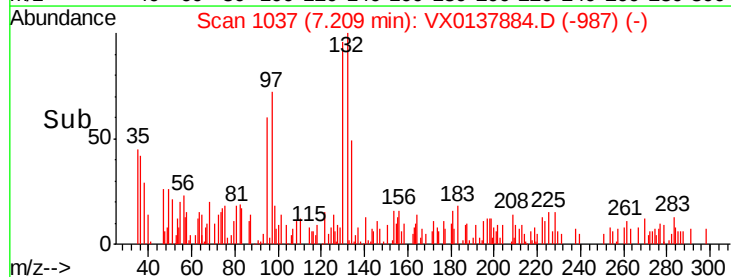
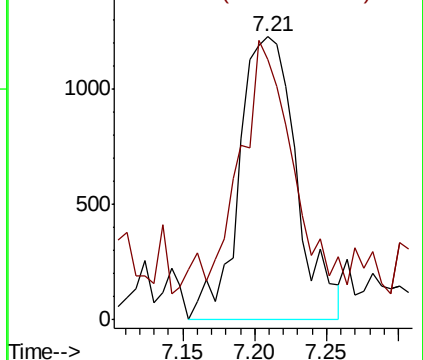
130 100

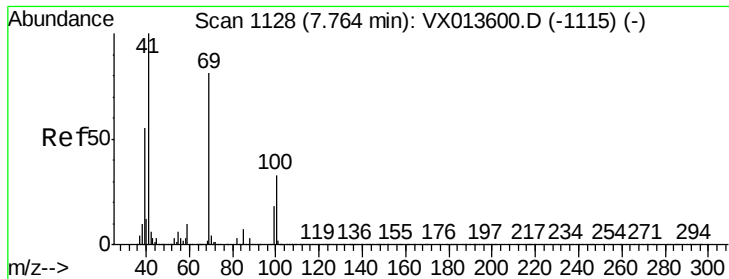
95 69.4 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

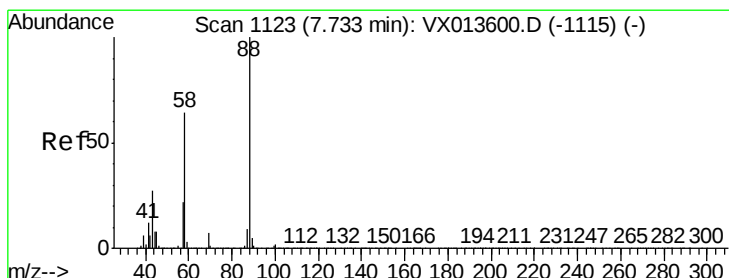
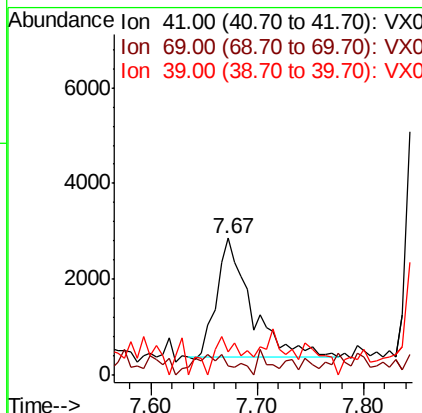
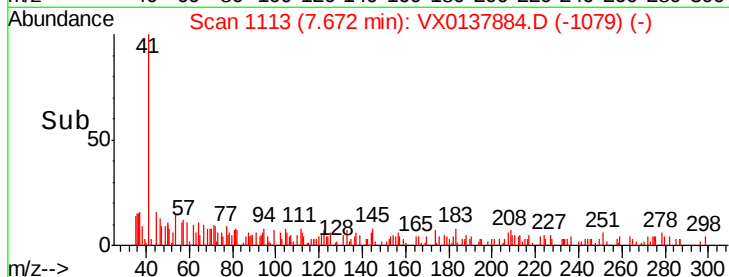
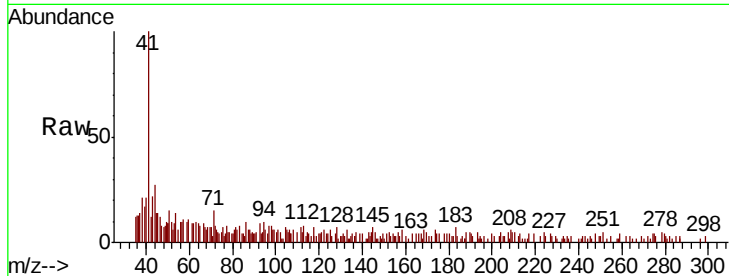




#48
Methvl methacrylate
Concen: 0.739 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

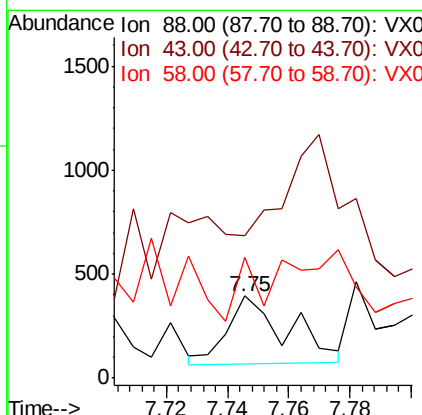
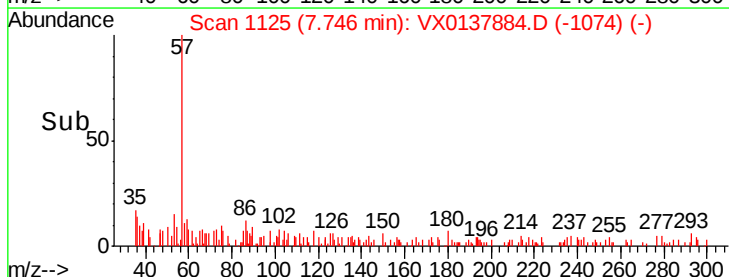
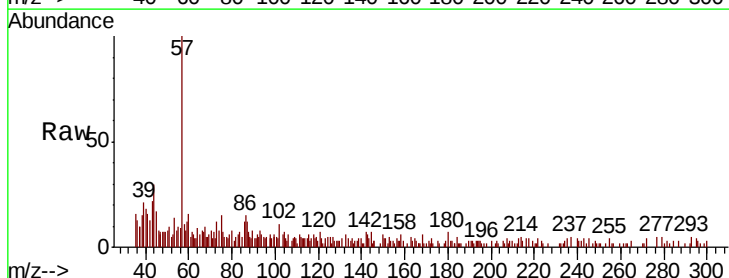
Instrument :
MSVOA_X
ClientSampleId :

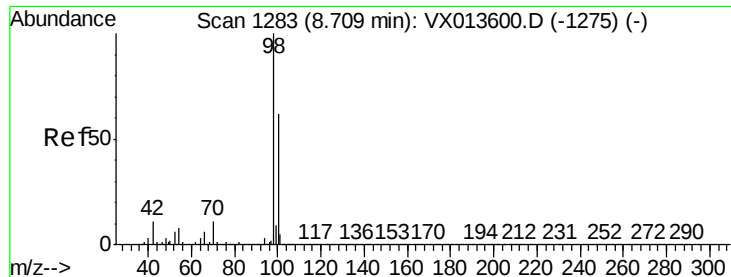
Tot Ion: 41 Resp: 5551
Ion Ratio Lower Upper
41 100
69 19.7 64.7 97.1#
39 0.0 43.8 65.6#



#49
1,4-Dioxane
Concen: 2.628 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion: 88 Resp: 442
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.6#
58 0.0 54.6 82.0#





#50

Toluene-d8

Concen: 49.903 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

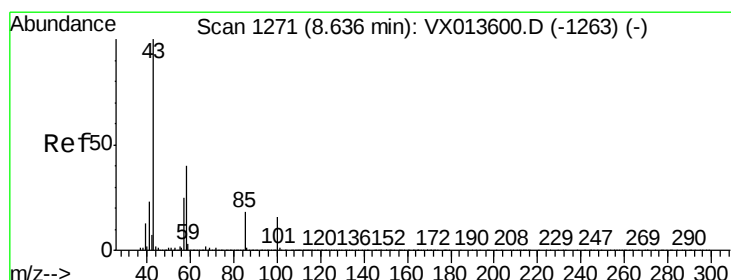
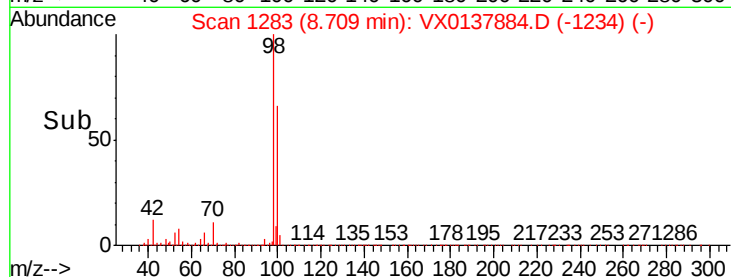
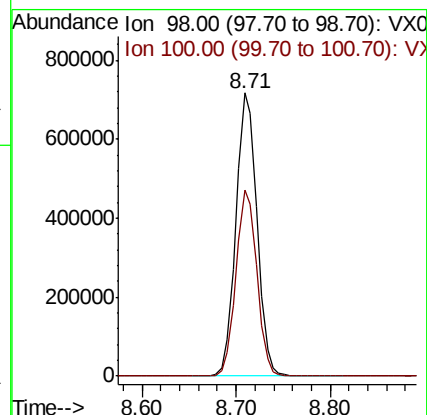
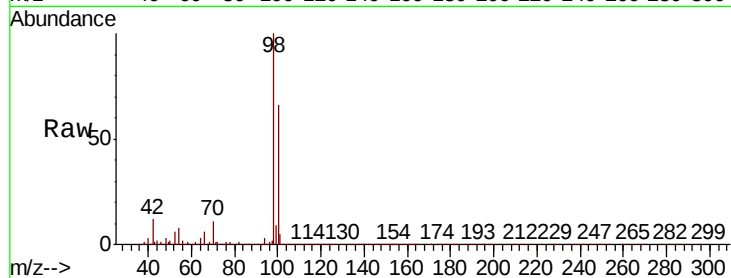
ClientSampleId :

Tot Ion: 98 Resp: 1108516

Ion Ratio Lower Upper

98 100

100 65.4 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 4.823 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VX0137884.D

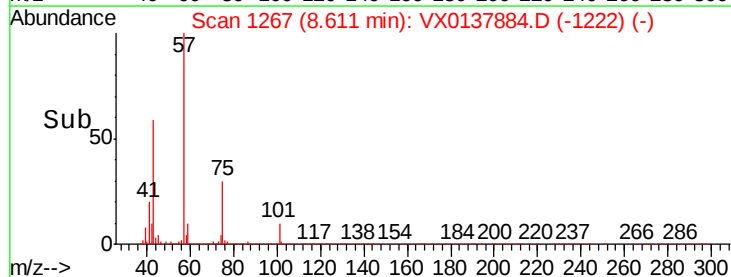
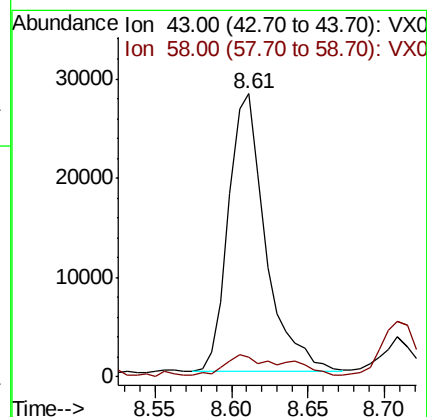
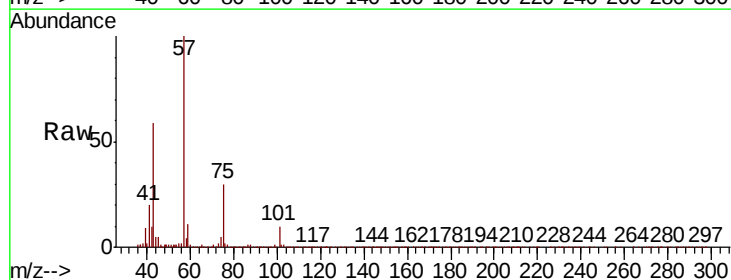
Acq: 10 Dec 2019 05:01

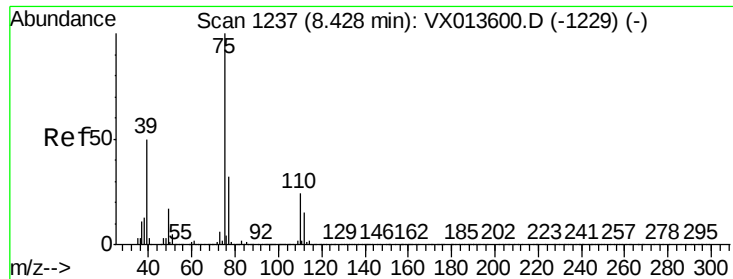
Tgt Ion: 43 Resp: 46910

Ion Ratio Lower Upper

43 100

58 7.4 32.1 48.1#



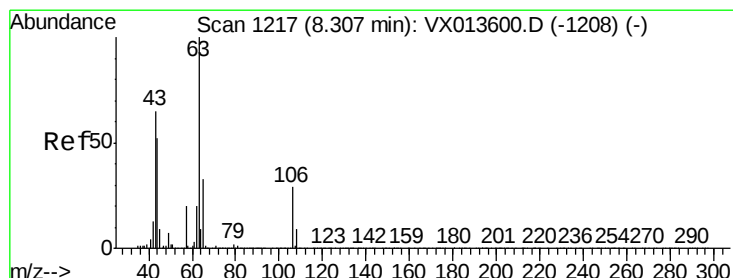
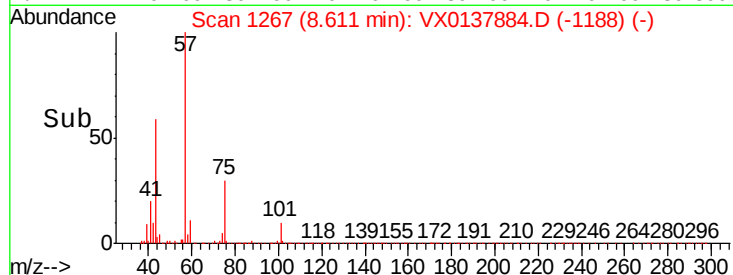
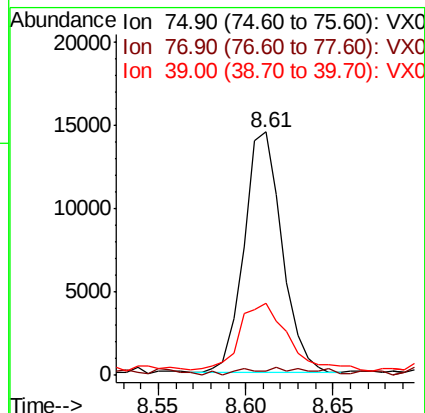
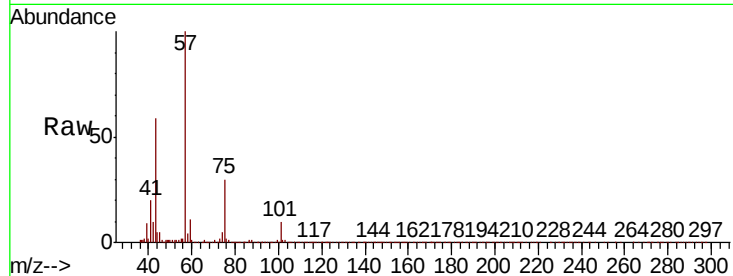


#54

cis-1,3-Dichloropropene
Concen: 2.118 ug/l
RT: 8.61 min Scan# 1267
Delta R.T. 0.18 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Instrument :
MSVOA_X
ClientSampleId :

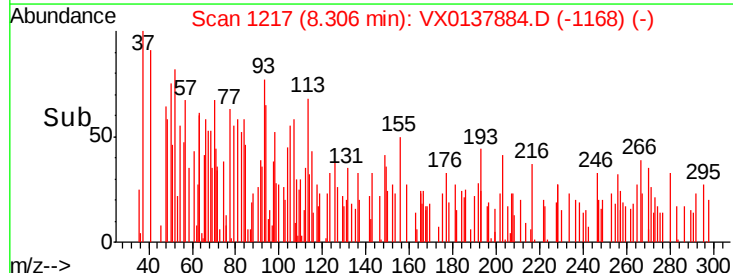
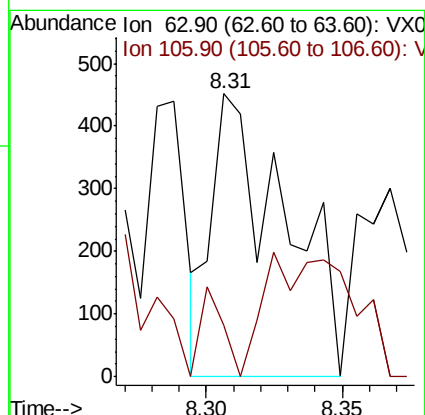
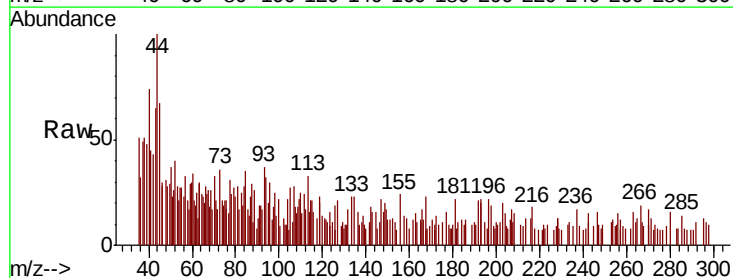
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.1	25.8	38.6#
39	27.4	39.9	59.9#

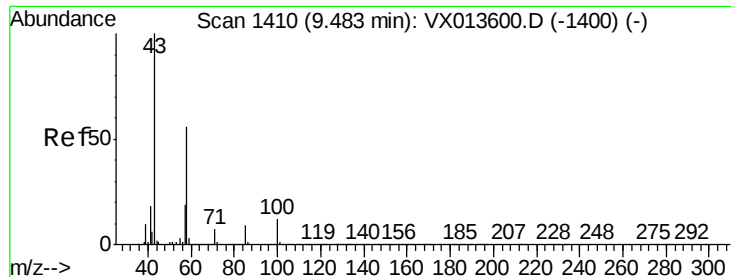


#58

2-Chloroethyl Vinyl ether
Concen: 0.208 ug/l
RT: 8.31 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion	Ratio	Lower	Upper
63	100		
106	9.8	23.4	35.0#

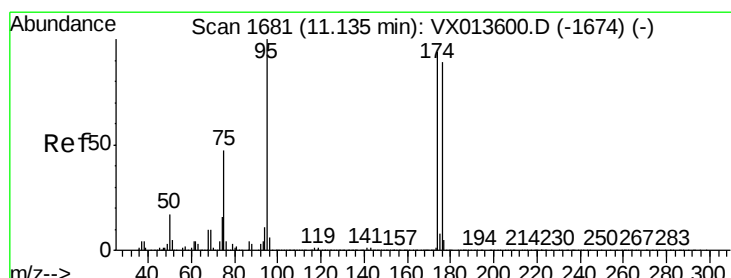
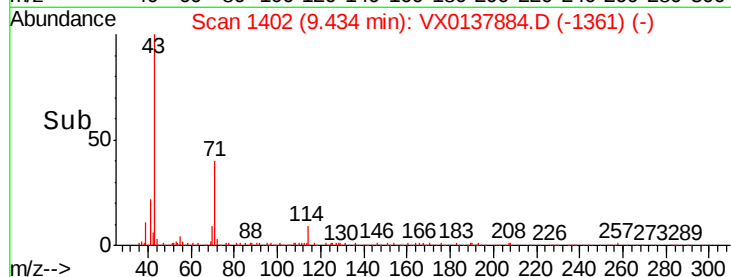
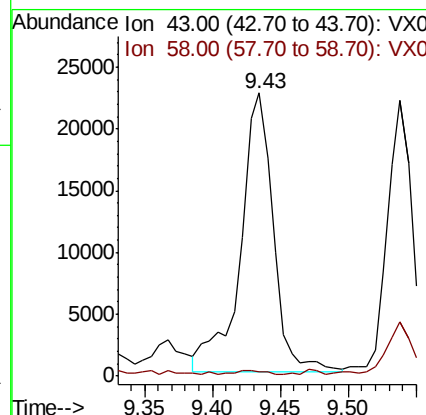
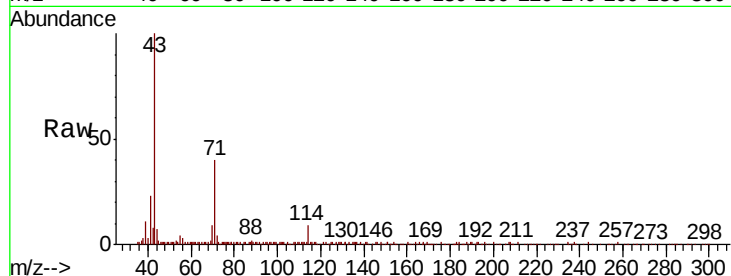




#59
2-Hexanone
Concen: 5.030 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

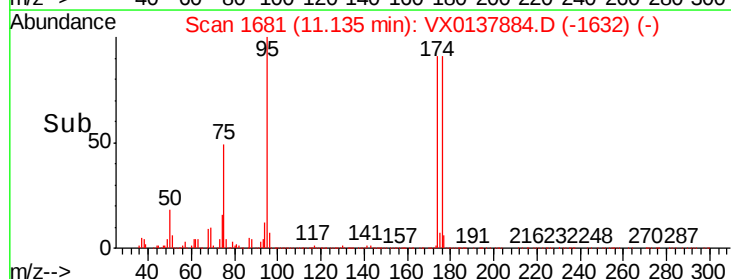
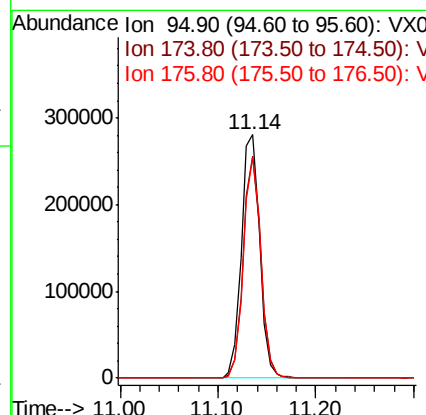
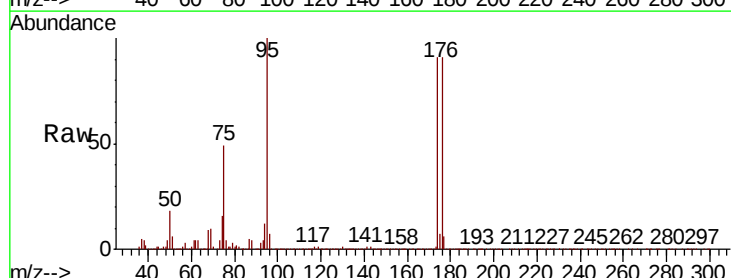
Instrument :
MSVOA_X
ClientSampled :

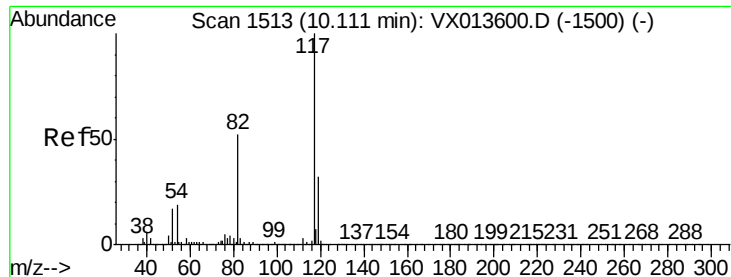
Tot Ion: 43 Resp: 38156
Ion Ratio Lower Upper
43 100
58 0.9 28.1 84.4#



#62
4-Bromofluorobenzene
Concen: 45.592 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion: 95 Resp: 365201
Ion Ratio Lower Upper
95 100
174 87.3 0.0 180.0
176 86.7 0.0 173.6

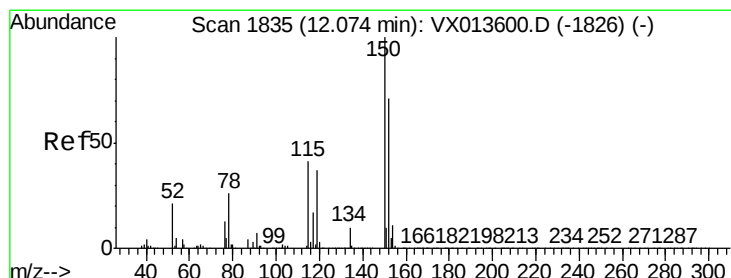
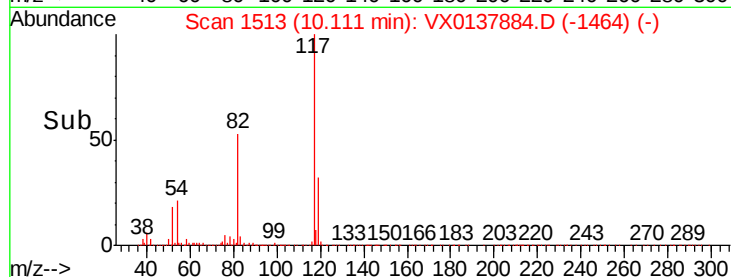
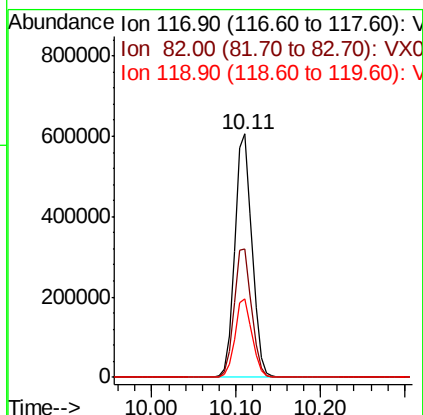
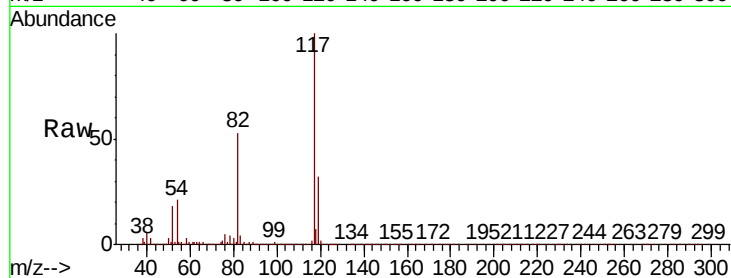




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

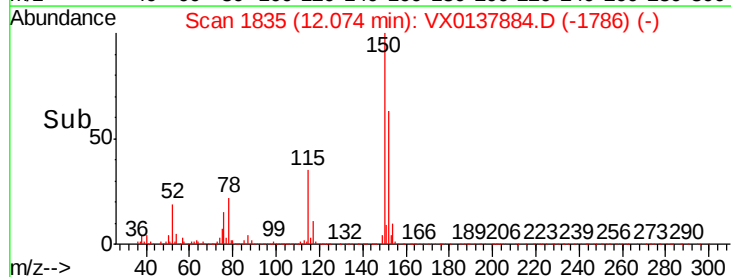
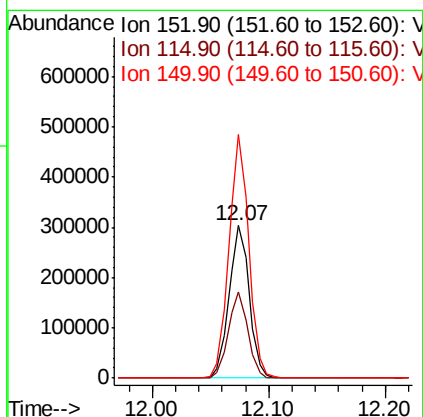
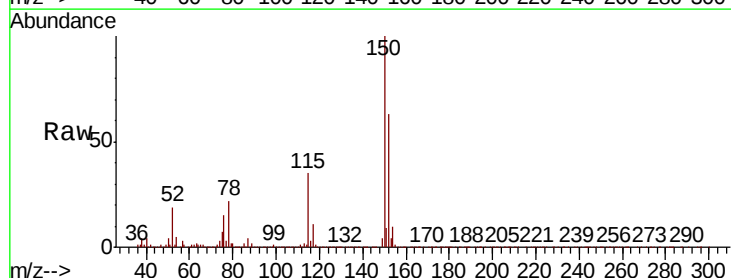
Instrument :
MSVOA_X
ClientSampleId :

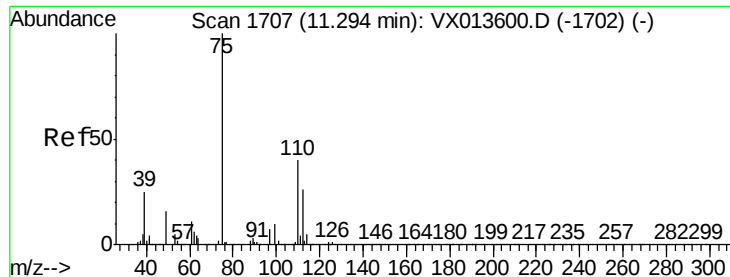
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.8
119	32.4	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX0137884.D
Acq: 10 Dec 2019 05:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	38.4	115.1
150	155.6	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.519 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

Instrument :

MSVOA_X

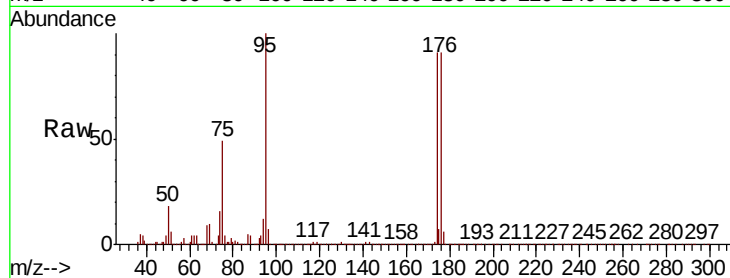
ClientSampleId :

Tot Ion: 75 Resp: 177686

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

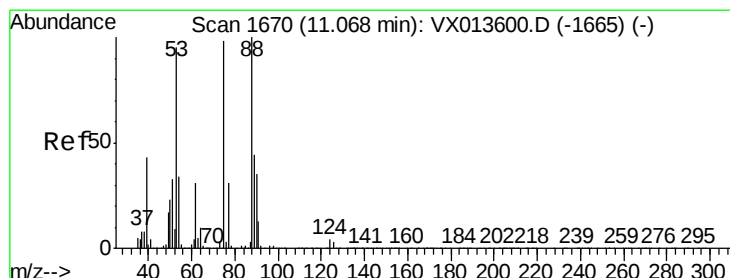
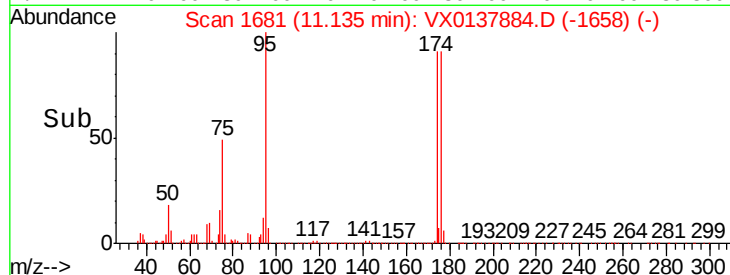
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 58.871 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX0137884.D

Acq: 10 Dec 2019 05:01

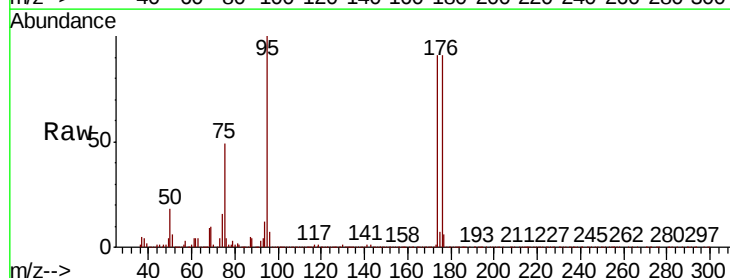
Tgt Ion: 75 Resp: 177686

Ion Ratio Lower Upper

75 100

53 0.2 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

150000

100000

50000

0

Time-->

