

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010719\
 Data File : VX006935.D
 Acq On : 07 Jan 2019 15:01
 Operator : JC/MD
 Sample : PB116189ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:33:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	624796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	969282	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	921533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	455355	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	331618	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
35) Dibromofluoromethane	5.51	113	297081	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.71	98	1184087	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	11.13	95	426196	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	

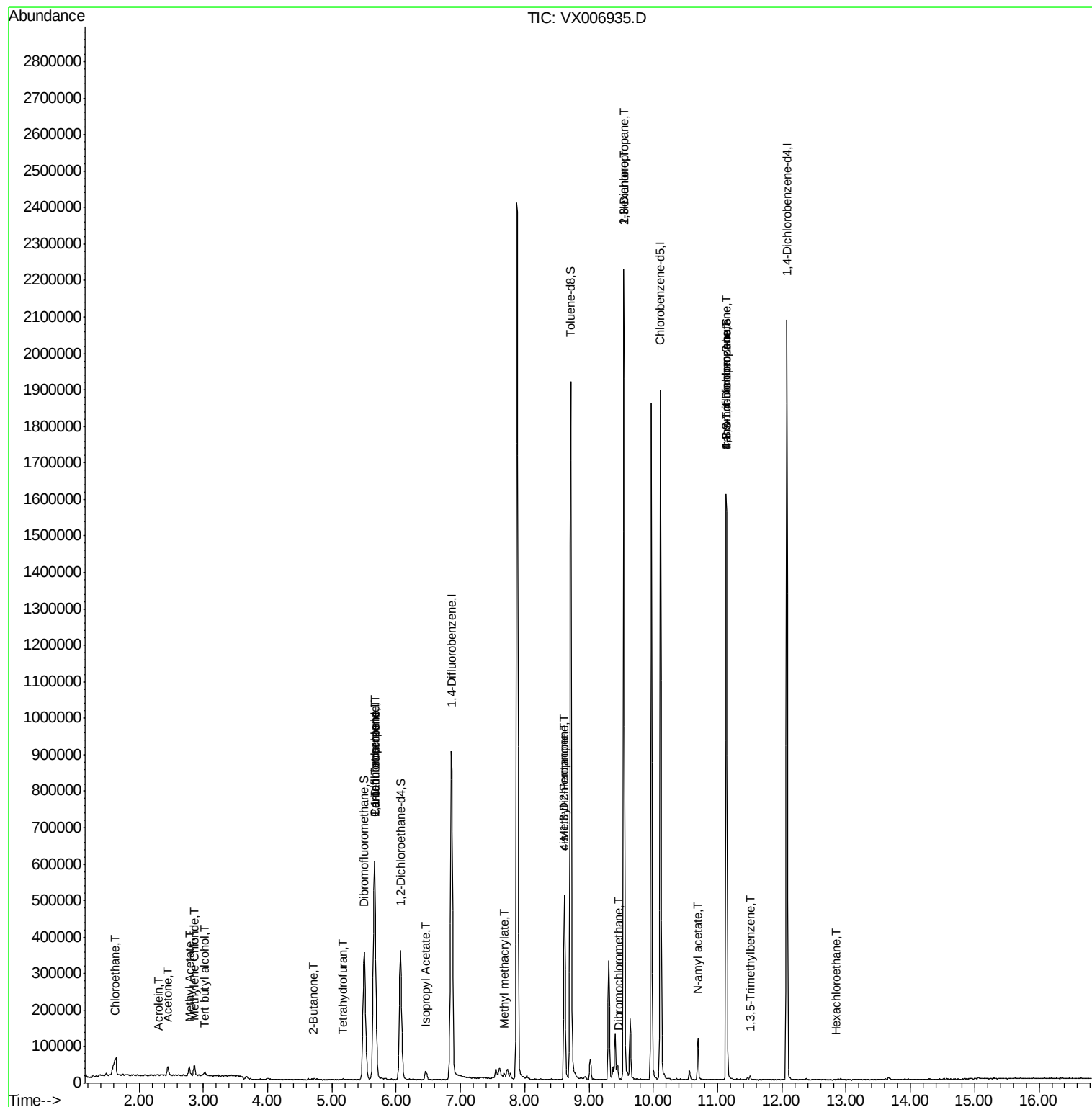
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	864	Below Cal	#	80
6) Chloroethane	1.62	64	1544	0.347	ug/l #	42
11) Tert butyl alcohol	3.03	59	6058	4.031	ug/l #	88
13) Acrolein	2.30	56	523	0.516	ug/l #	13
16) Acetone	2.45	43	30083	9.724	ug/l	92
18) Methyl Acetate	2.78	43	29826	3.279	ug/l	98
20) Methylene Chloride	2.86	84	13611	2.128	ug/l #	94
25) 2-Butanone	4.71	43	4447	1.022	ug/l #	82
28) Bromochloromethane	5.03	49	296	Below Cal	#	3
29) Tetrahydrofuran	5.17	42	2874	1.003	ug/l #	62
36) 1,1-Dichloropropene	5.67	75	39518	4.923	ug/l #	49
38) Carbon Tetrachloride	5.67	117	56641	7.260	ug/l #	15
43) Isopropyl Acetate	6.46	43	32575	2.562	ug/l	99
48) Methyl methacrylate	7.68	41	15995	2.474	ug/l #	12
49) 1,4-Dioxane	7.74	88	68	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	165613	20.473	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	83438	9.777	ug/l #	59
57) 1,3-Dichloropropane	9.54	76	20348	1.960	ug/l #	43
59) 2-Hexanone	9.54	43	250268	40.437	ug/l #	50
60) Dibromochloromethane	9.46	129	160	2.347	ug/l	87
74) N-amyl acetate	10.69	43	26780	2.402	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	199691	23.597	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5220	0.203	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.13	75	199691	69.967	ug/l #	10
90) Hexachloroethane	12.84	117	53	3.305	ug/l	95

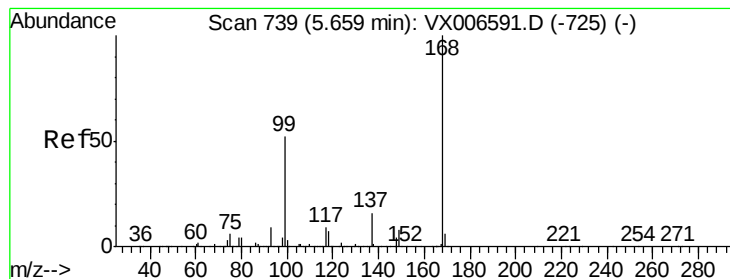
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010719\
Data File : VX006935.D
Acq On : 07 Jan 2019 15:01
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 08 06:33:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

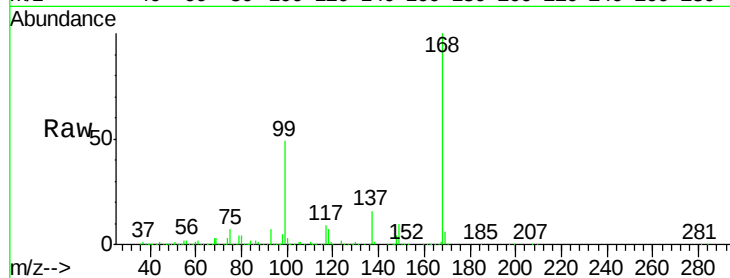
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 624796

Ion Ratio Lower Upper

168 100

99 49.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

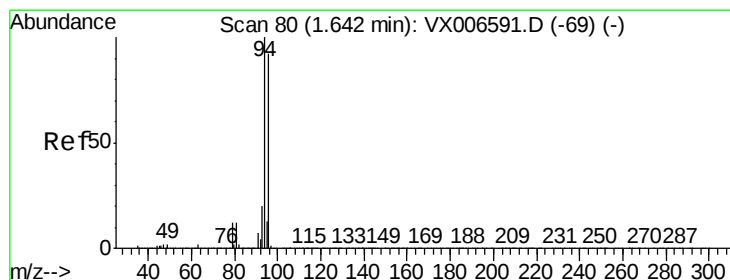
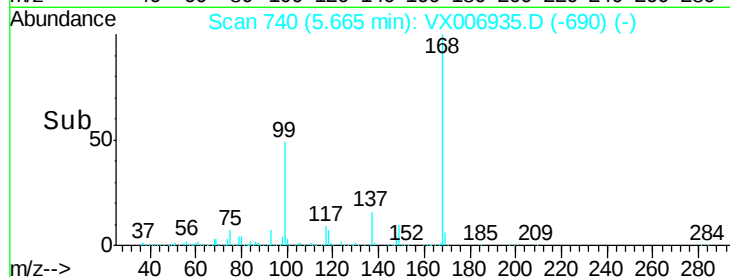
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006935.D

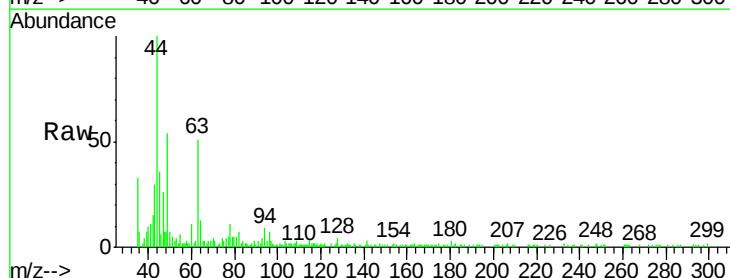
Acq: 07 Jan 2019 15:01

Tgt Ion: 94 Resp: 864

Ion Ratio Lower Upper

94 100

96 72.6 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

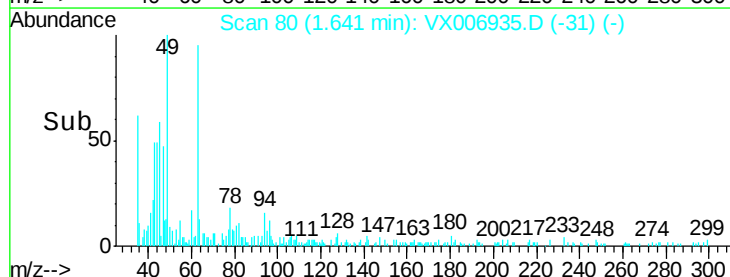
400

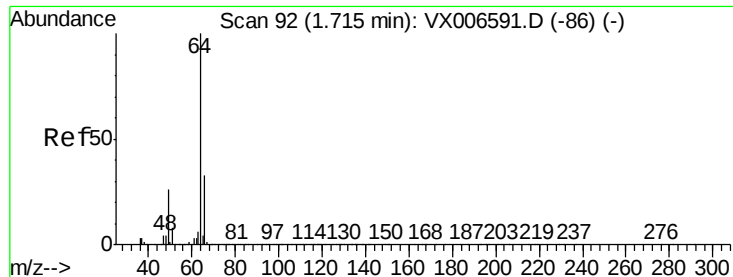
200

0

1.60 1.62 1.64 1.66 1.68

Time-->





#6

Chloroethane

Concen: 0.347 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.09 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

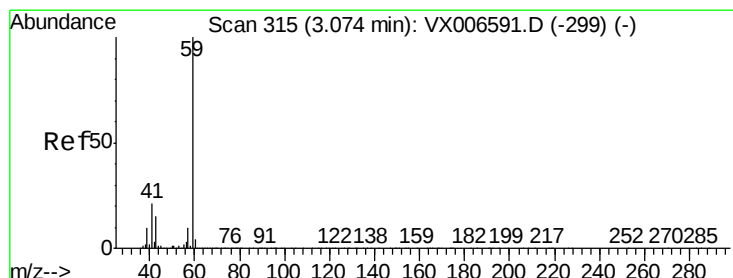
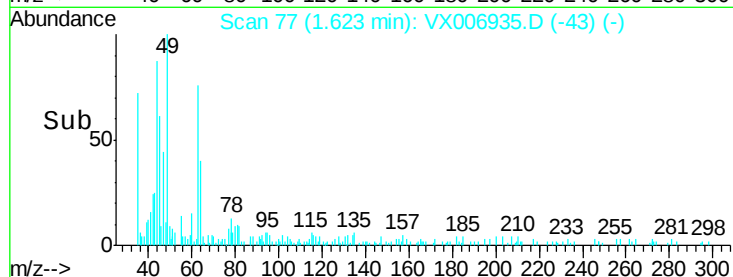
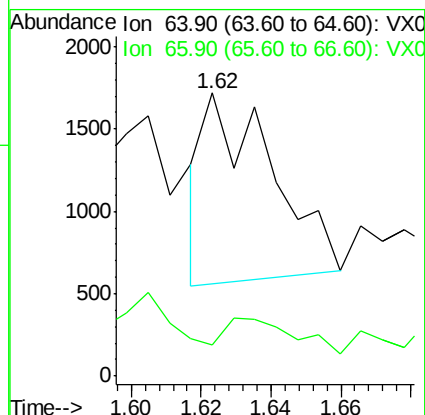
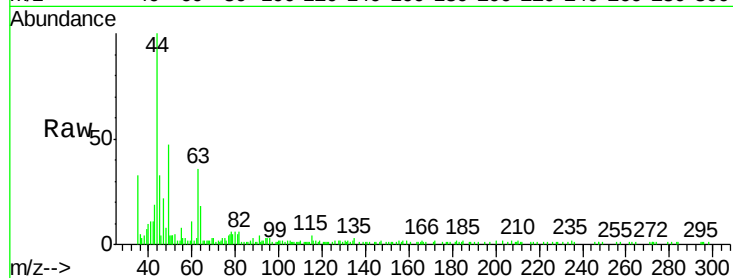
ClientSampleId :

Tot Ion: 64 Resp: 1544

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



#11

Tert butyl alcohol

Concen: 4.031 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006935.D

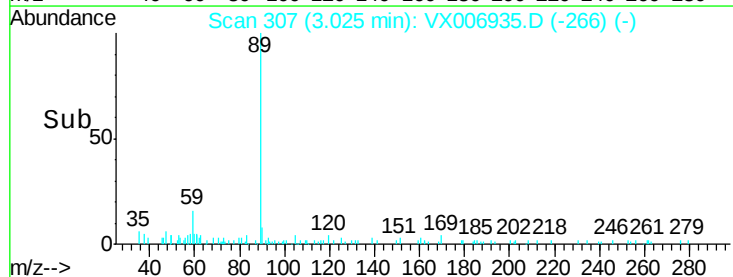
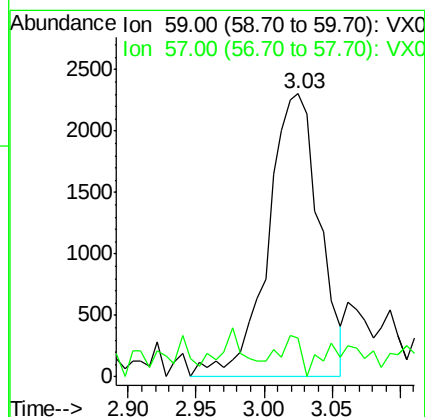
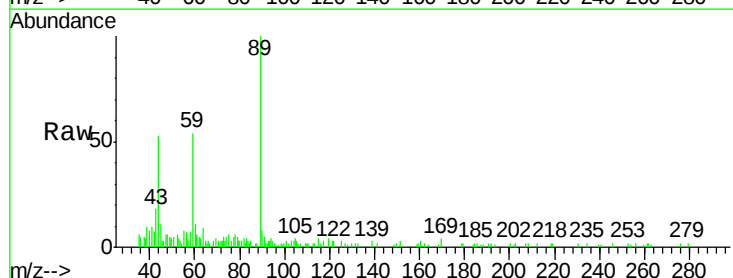
Acq: 07 Jan 2019 15:01

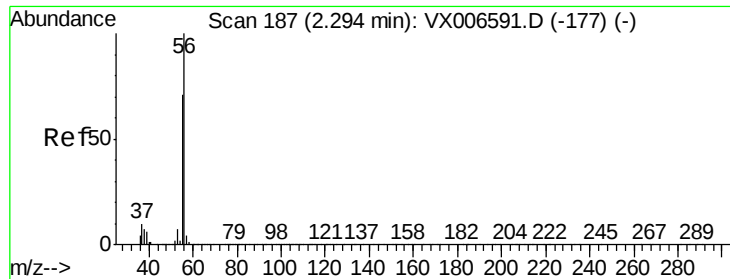
Tgt Ion: 59 Resp: 6058

Ion Ratio Lower Upper

59 100

57 6.3 8.5 12.7#





#13

Acrolein

Concen: 0.516 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

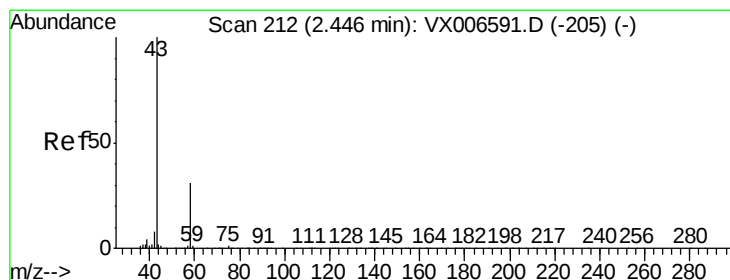
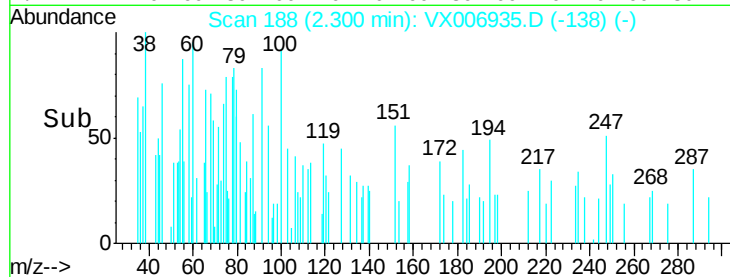
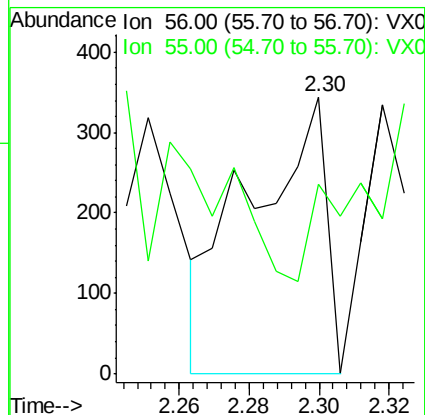
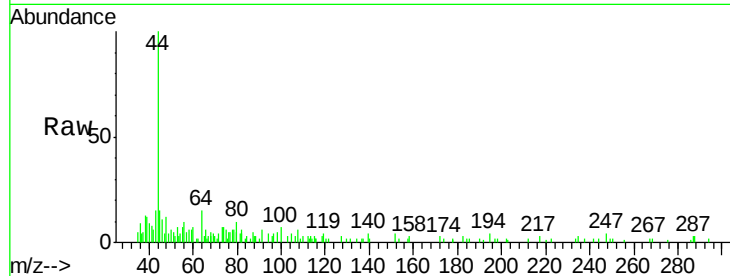
ClientSampleId :

Tot Ion: 56 Resp: 523

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 9.724 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006935.D

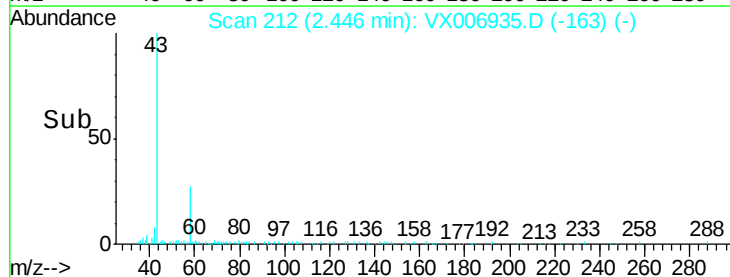
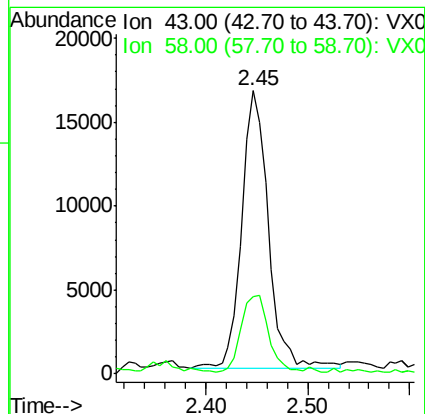
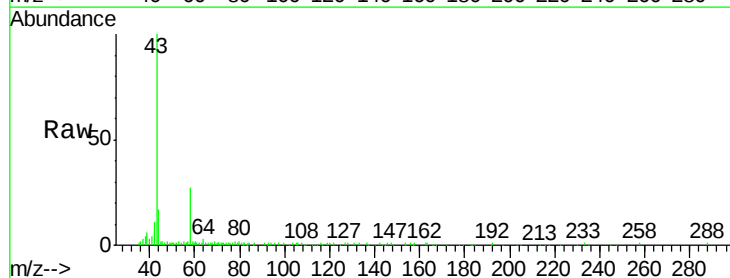
Acq: 07 Jan 2019 15:01

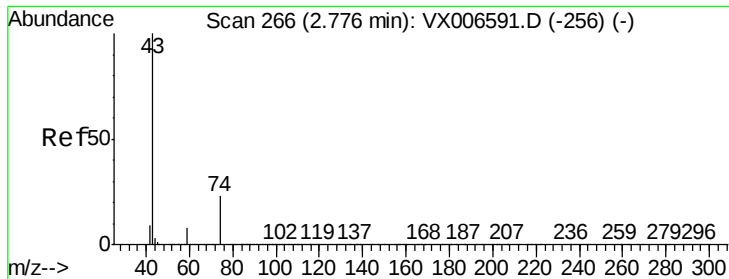
Tgt Ion: 43 Resp: 30083

Ion Ratio Lower Upper

43 100

58 27.0 25.0 37.6

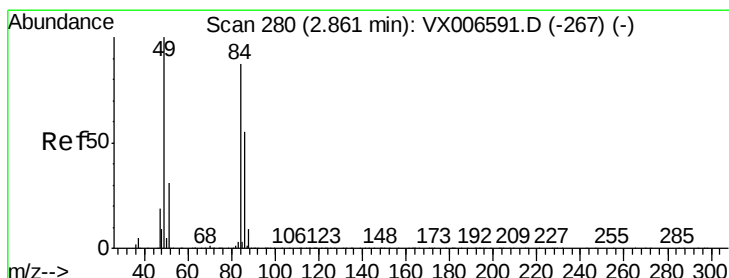
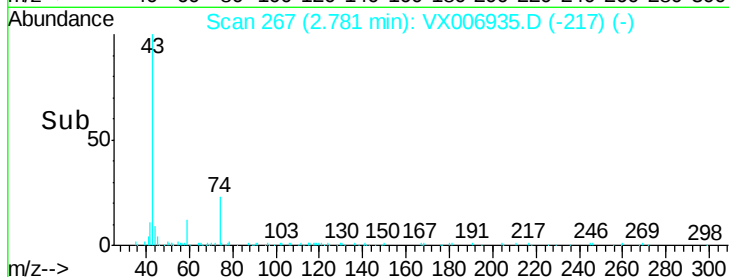
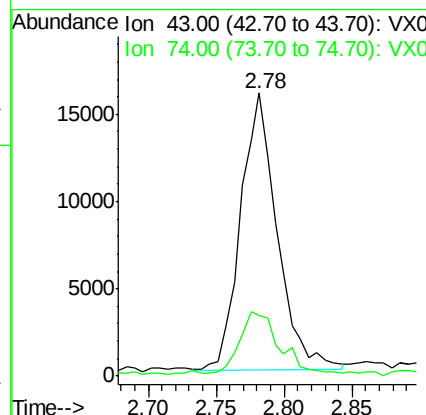
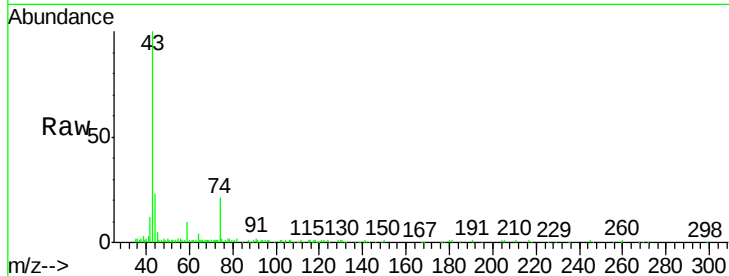




#18
Methyl Acetate
Concen: 3.279 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

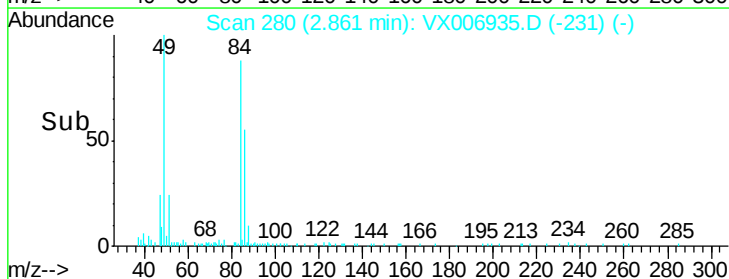
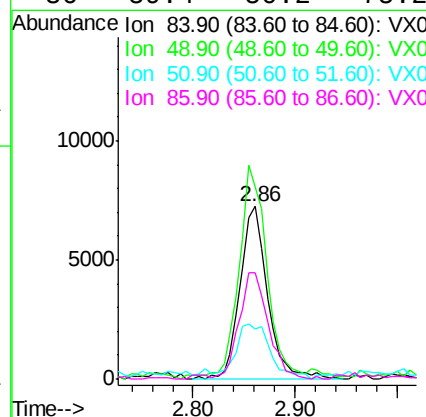
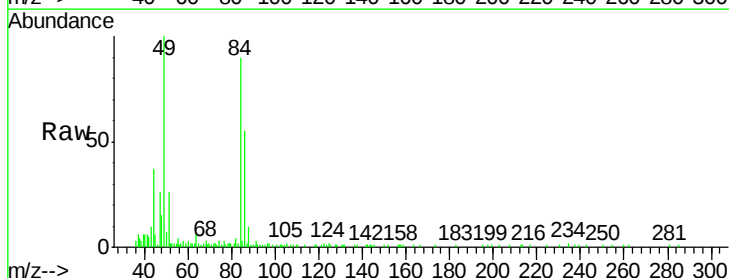
Instrument :
MSVOA_X
ClientSampleId :

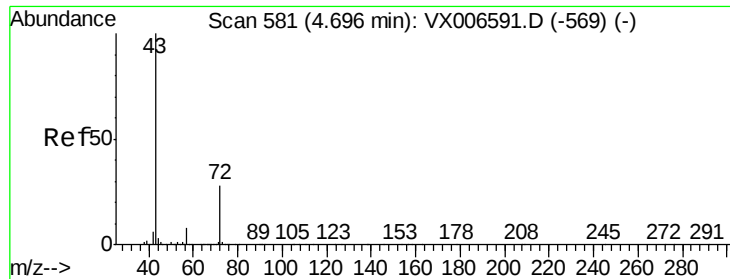
Tot Ion: 43 Resp: 29826
Ion Ratio Lower Upper
43 100
74 24.4 18.6 28.0



#20
Methylene Chloride
Concen: 2.128 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

Tgt Ion: 84 Resp: 13611
Ion Ratio Lower Upper
84 100
49 110.0 91.8 137.6
51 26.6 28.5 42.7#
86 59.4 50.2 75.2





#25

2-Butanone

Concen: 1.022 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

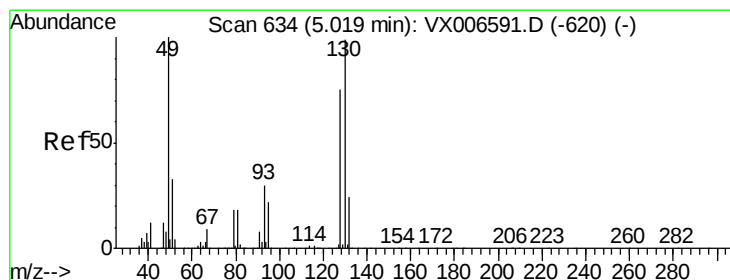
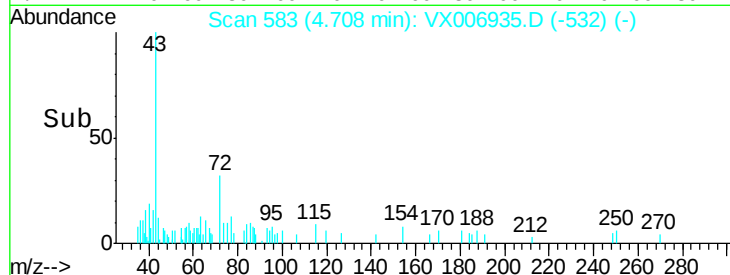
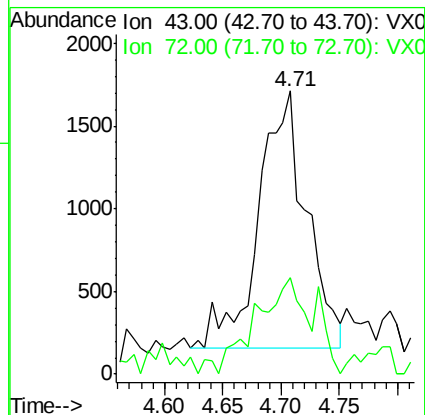
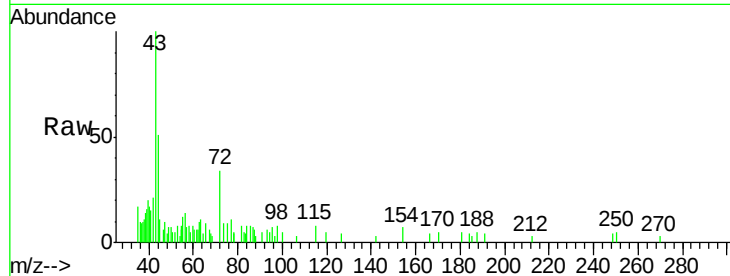
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 4447

Ion Ratio Lower Upper

43 100

72 37.6 22.4 33.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

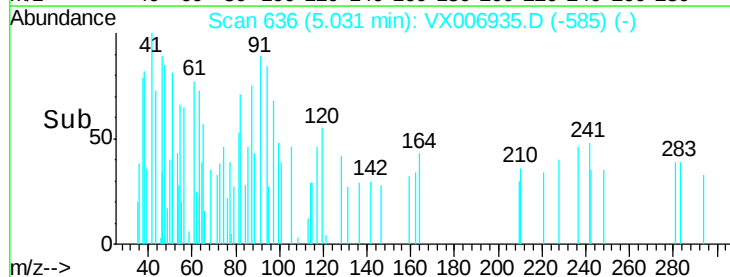
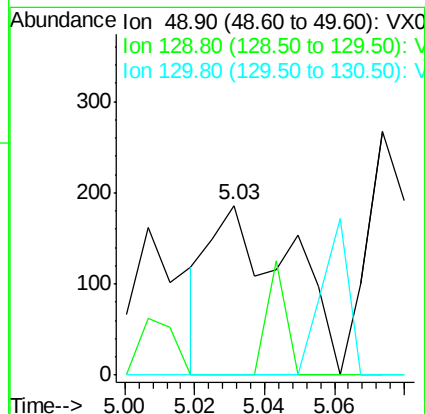
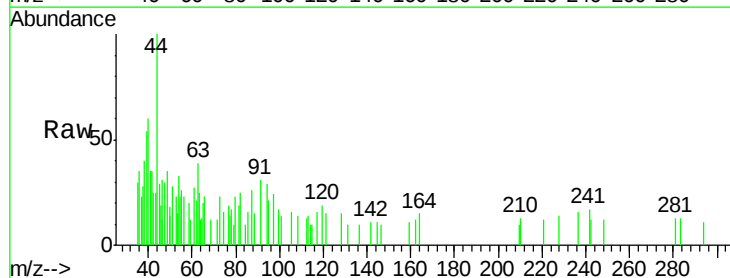
Tgt Ion: 49 Resp: 296

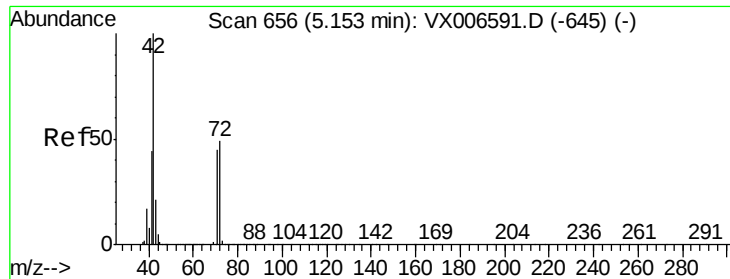
Ion Ratio Lower Upper

49 100

129 15.5 0.0 5.4#

130 0.0 77.7 116.5#





#29

Tetrahydrofuran

Concen: 1.003 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

ClientSampled :

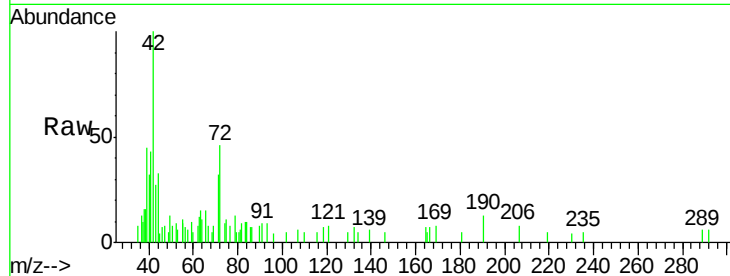
Tot Ion: 42 Resp: 2874

Ion Ratio Lower Upper

42 100

72 67.8 38.9 58.3#

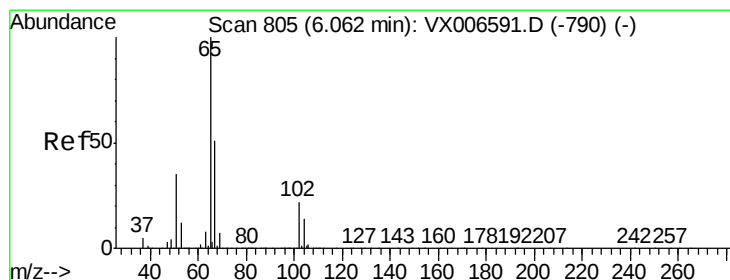
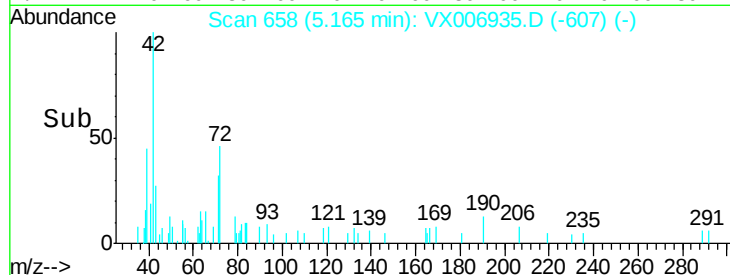
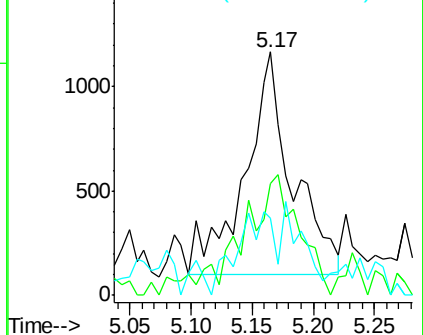
71 13.5 36.2 54.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.247 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006935.D

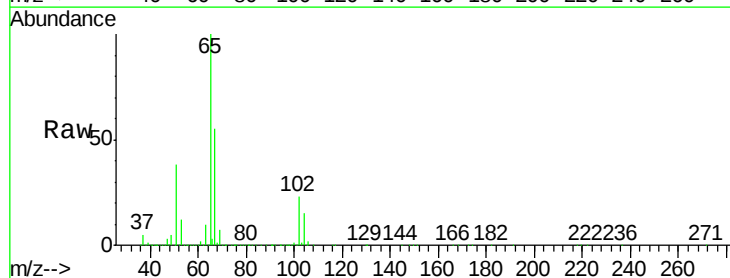
Acq: 07 Jan 2019 15:01

Tgt Ion: 65 Resp: 331618

Ion Ratio Lower Upper

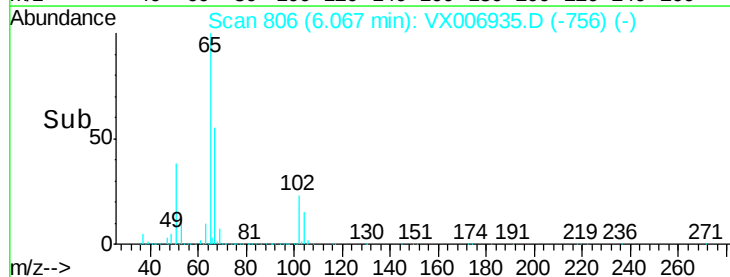
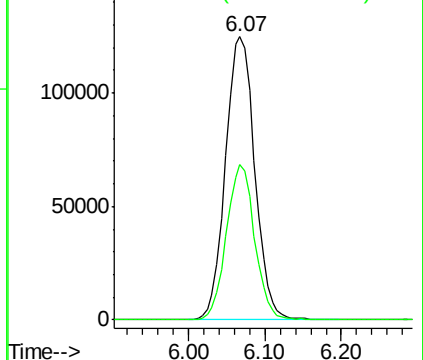
65 100

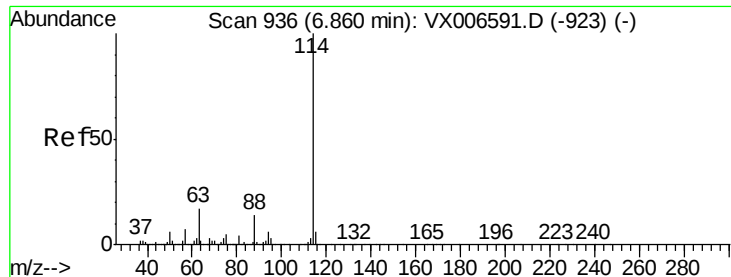
67 52.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

ClientSampled :

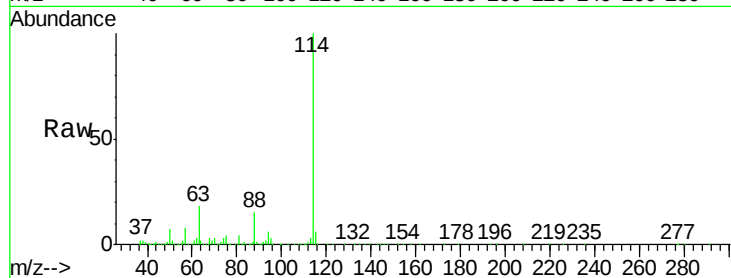
Tot Ion:114 Resp: 969282

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

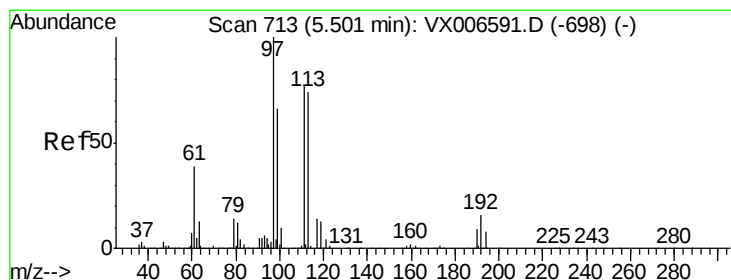
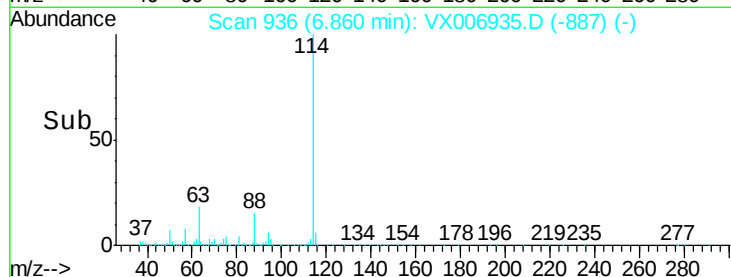
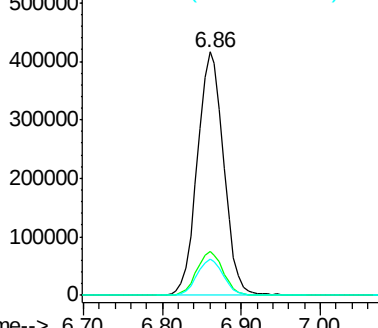
88 15.1 0.0 28.8



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: 48.467 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

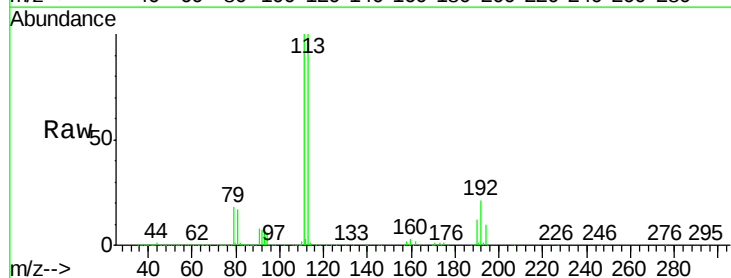
Tgt Ion:113 Resp: 297081

Ion Ratio Lower Upper

113 100

111 101.3 81.6 122.4

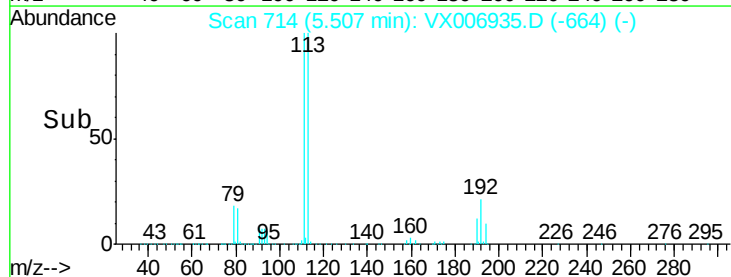
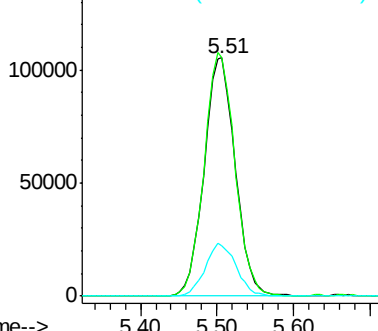
192 22.1 16.7 25.1

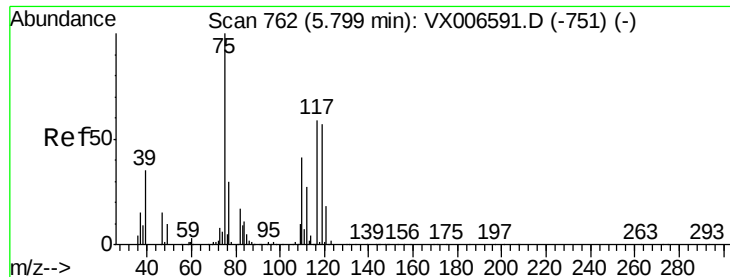


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

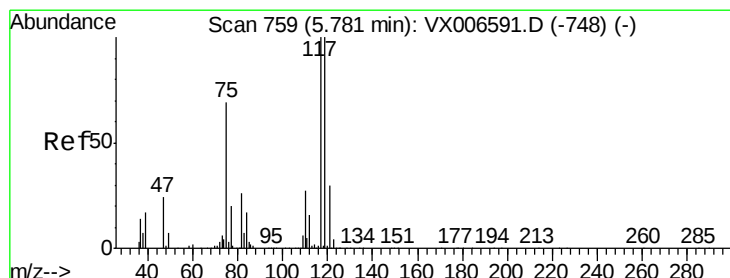
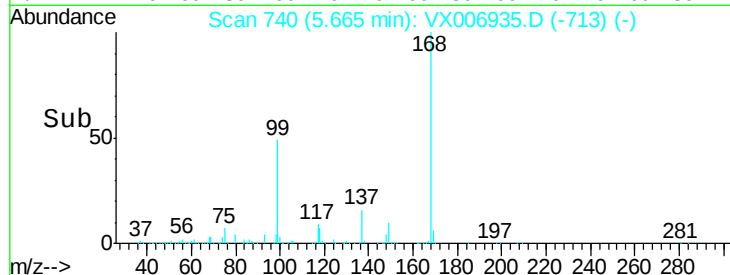
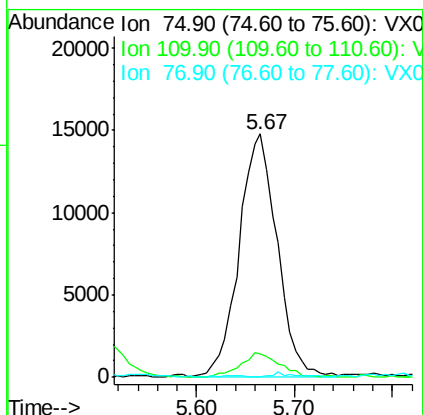
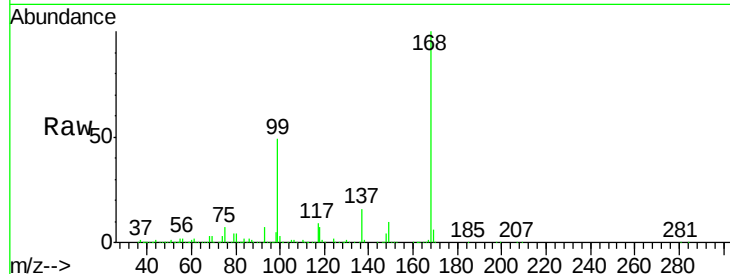




#36
 1,1-Dichloropropene
 Concen: 4.923 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

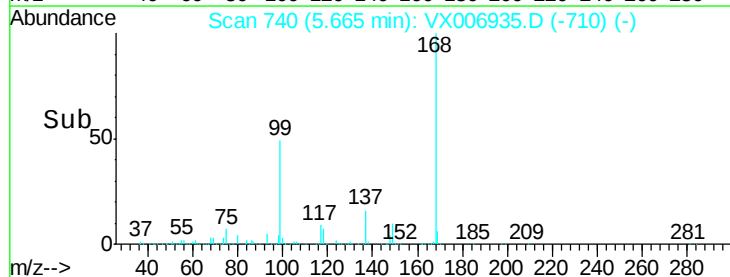
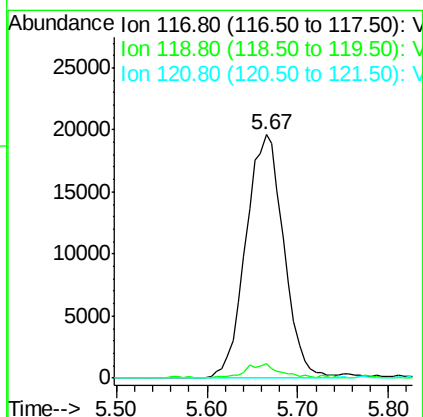
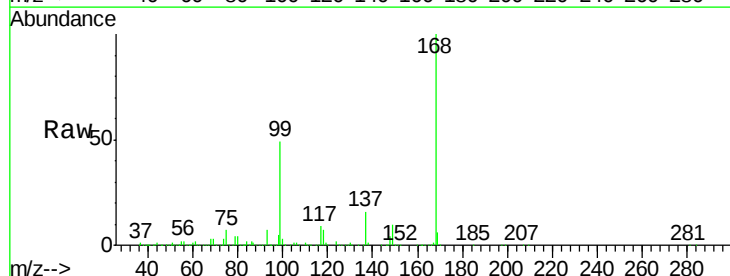
Instrument :
 MSVOA_X
 ClientSampleId :

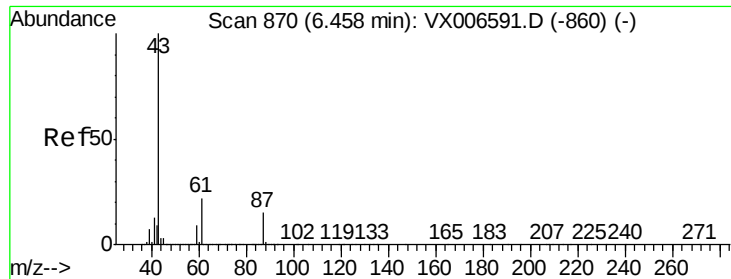
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.2	60.5#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.260 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	79.4	119.2#
121	0.0	24.0	36.0#



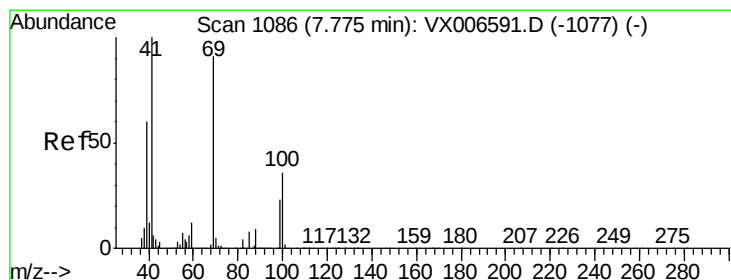
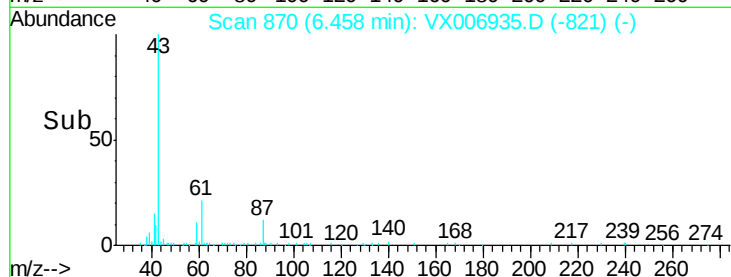
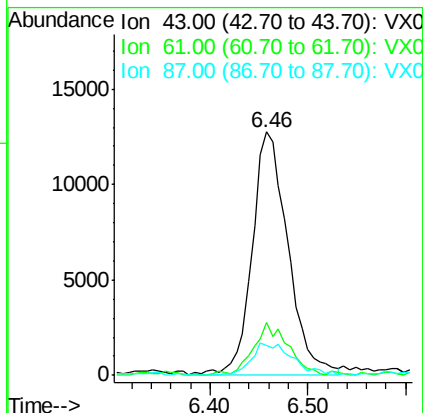
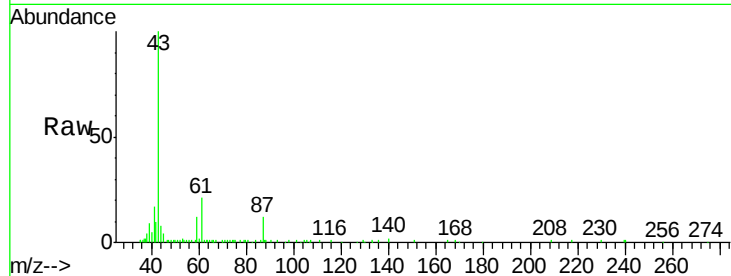


#43

Isopropyl Acetate
 Concen: 2.562 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

Instrument :
 MSVOA_X
 ClientSampleId :

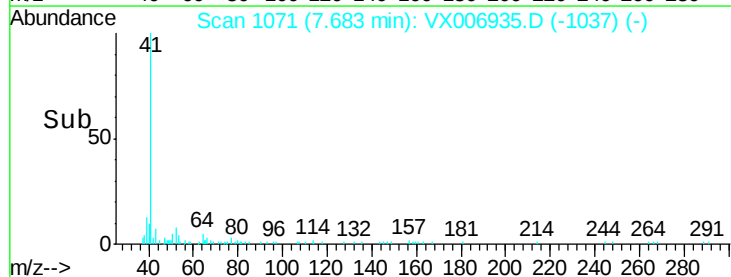
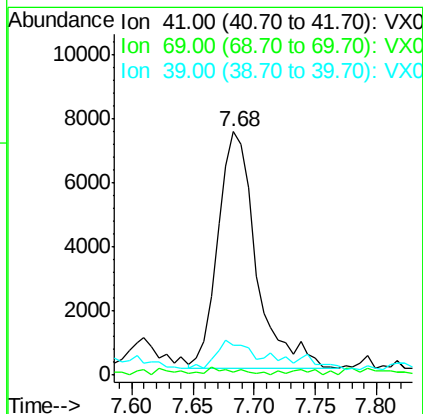
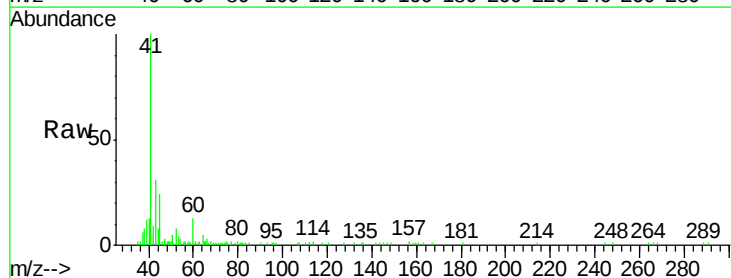
Tot Ion	43	Resp	32575
Ion Ratio	Lower	Upper	
43	100		
61	20.5	16.8	25.2
87	15.4	12.4	18.6

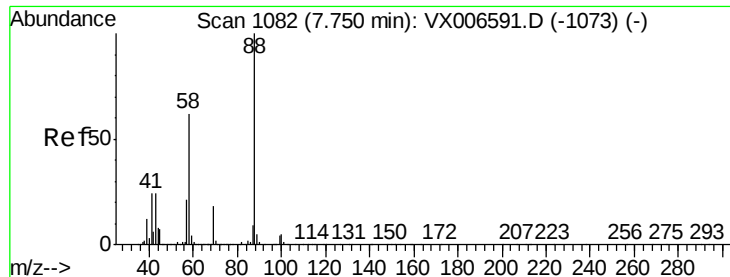


#48

Methyl methacrylate
 Concen: 2.474 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

Tgt Ion	41	Resp	15995
Ion Ratio	Lower	Upper	
41	100		
69	1.4	72.4	108.6#
39	0.0	45.8	68.8#

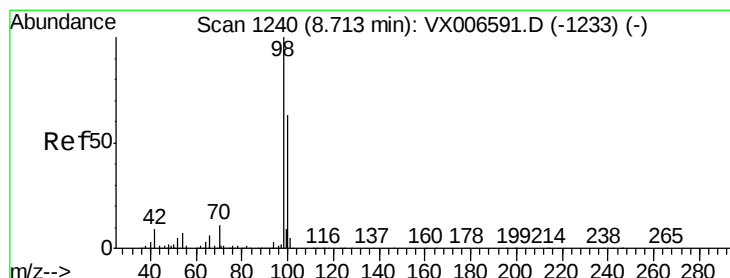
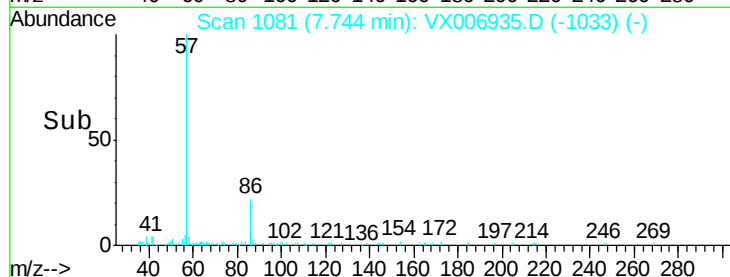
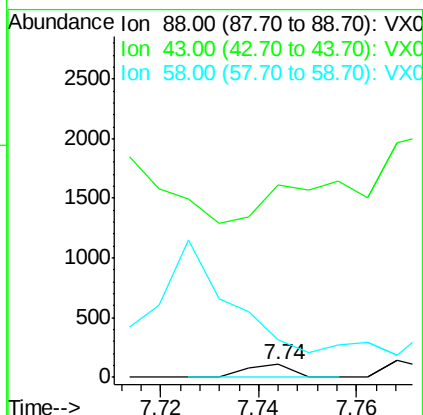
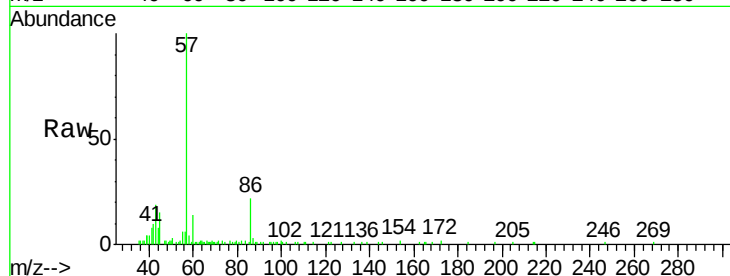




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

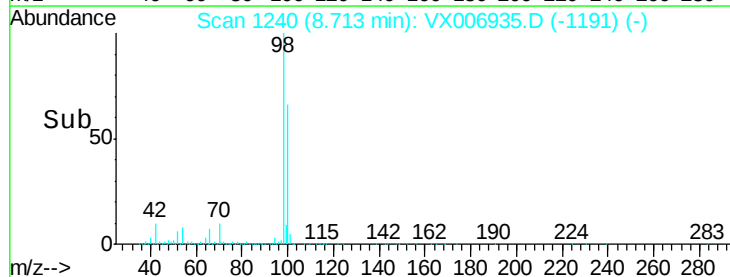
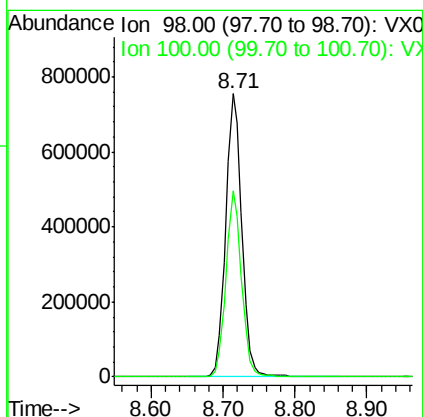
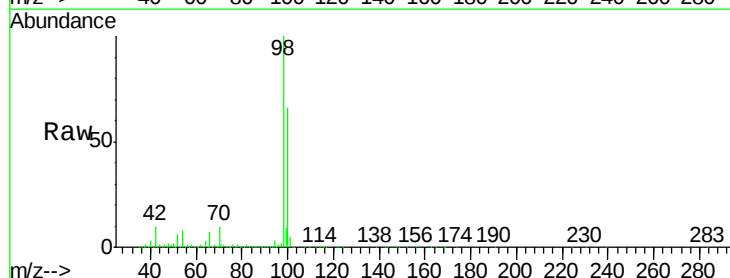
Instrument :
MSVOA_X
ClientSampled :

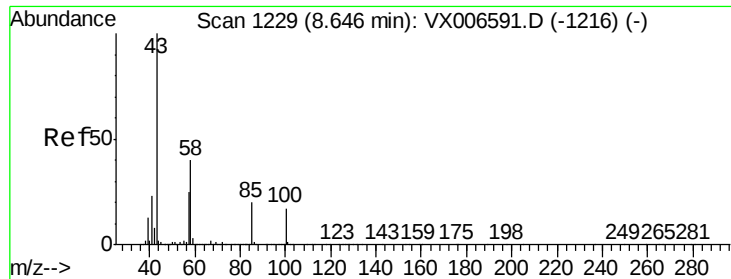
Tot Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 1738.2 51.0 76.4#



#50
Toluene-d8
Concen: 51.240 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

Tgt Ion: 98 Resp: 1184087
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 20.473 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

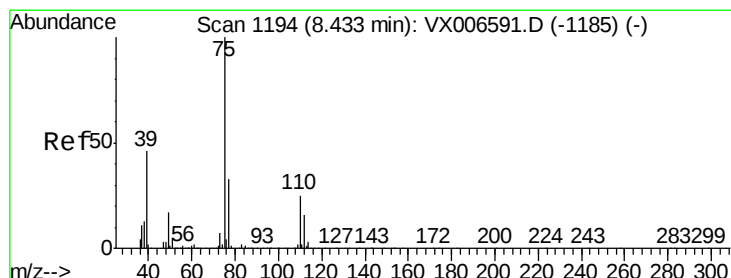
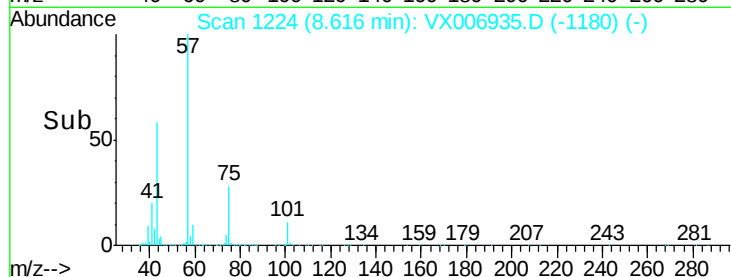
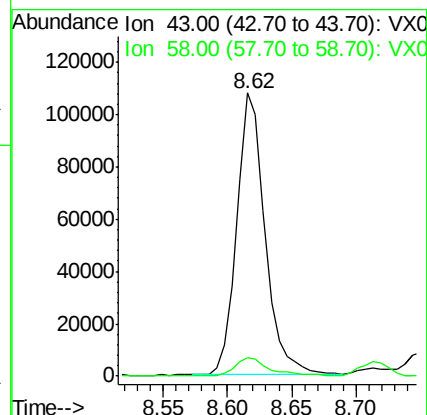
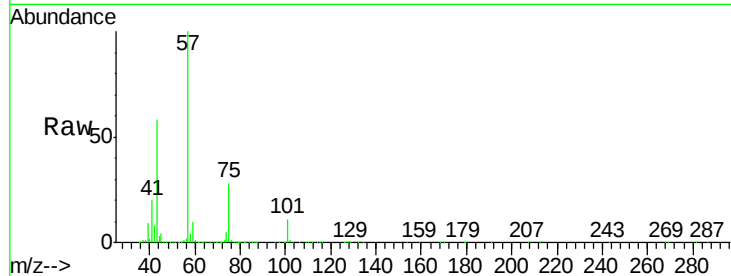
ClientSampled :

Tot Ion: 43 Resp: 165613

Ion Ratio Lower Upper

43 100

58 8.1 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 9.777 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

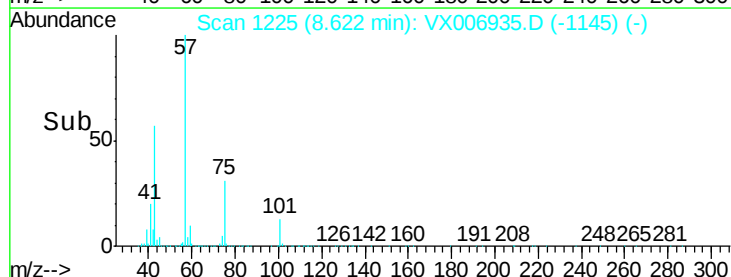
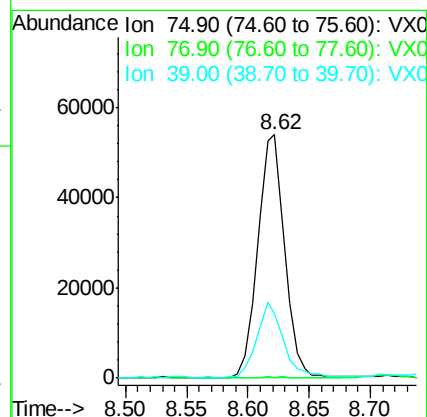
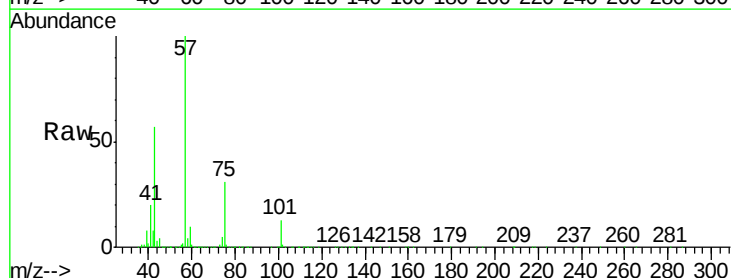
Tgt Ion: 75 Resp: 83438

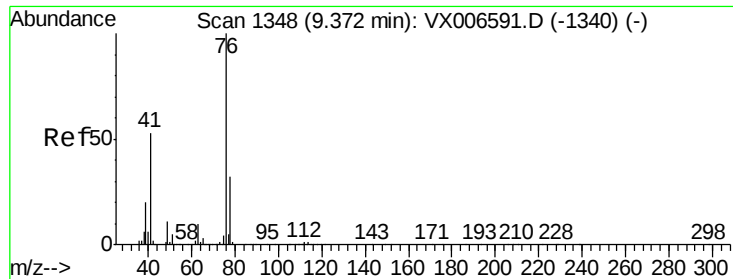
Ion Ratio Lower Upper

75 100

77 0.2 26.2 39.2#

39 26.3 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.960 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

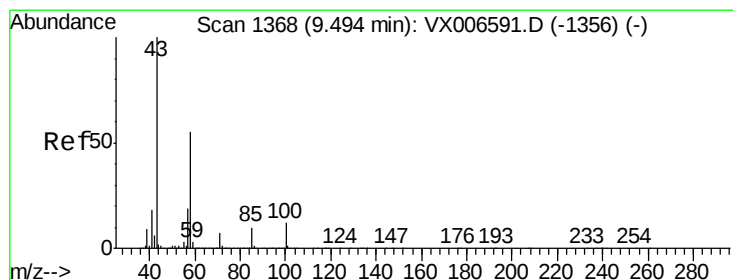
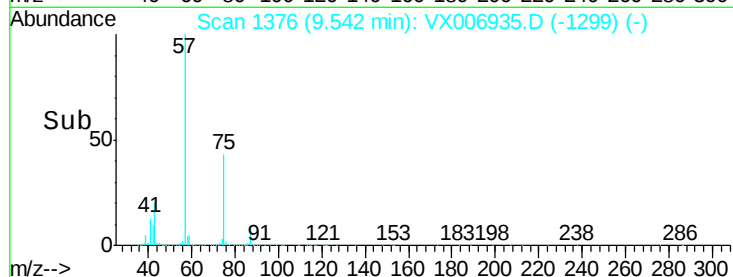
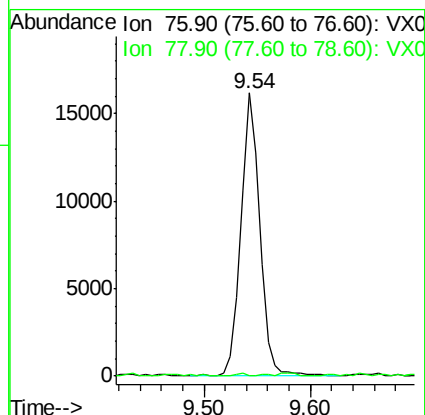
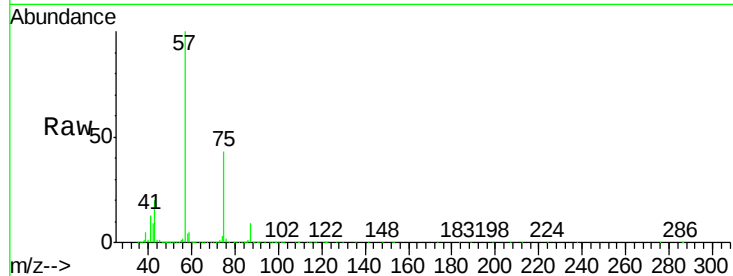
ClientSampleId :

Tot Ion: 76 Resp: 20348

Ion Ratio Lower Upper

76 100

78 0.7 26.0 39.0#



#59

2-Hexanone

Concen: 40.437 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006935.D

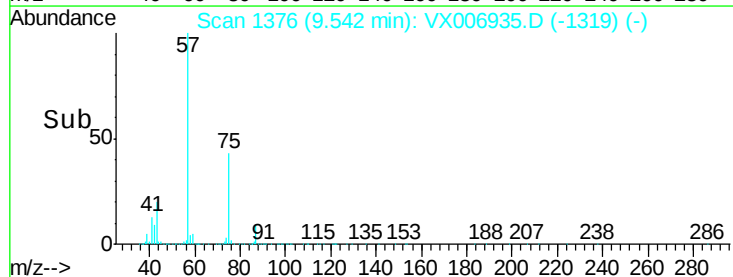
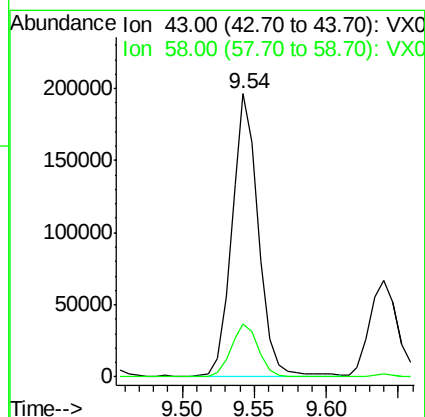
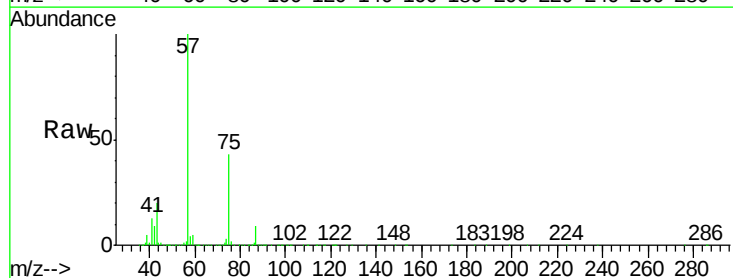
Acq: 07 Jan 2019 15:01

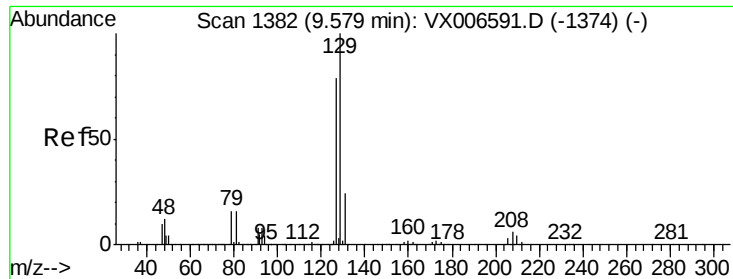
Tgt Ion: 43 Resp: 250268

Ion Ratio Lower Upper

43 100

58 19.1 27.7 83.1#

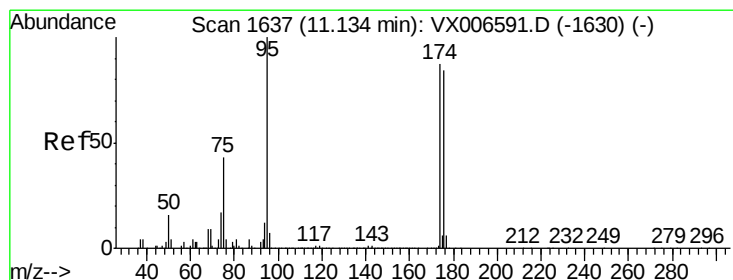
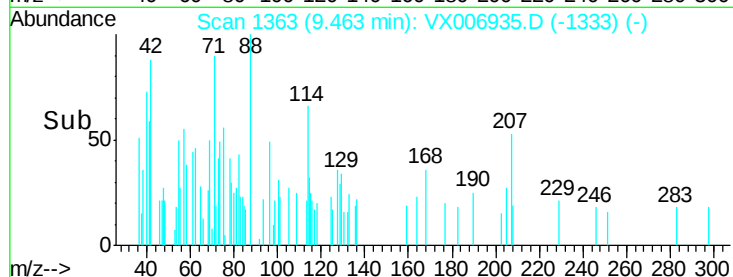
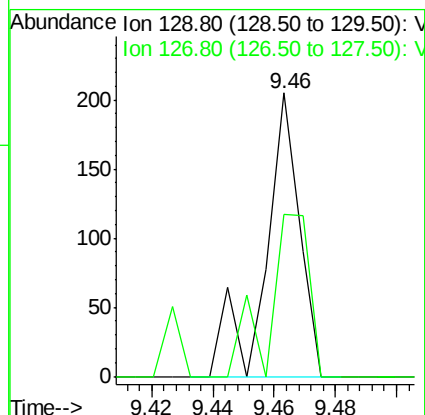
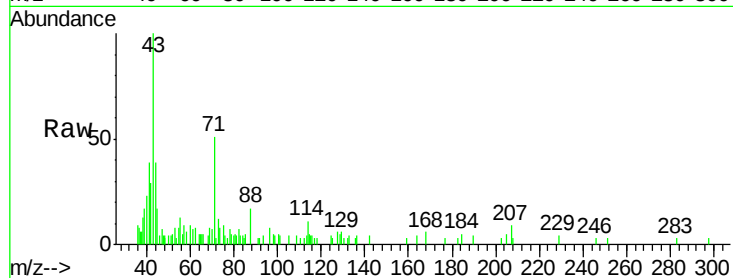




#60
 Dibromochloromethane
 Concen: 2.347 ug/l
 RT: 9.46 min Scan# 1363
 Delta R.T. -0.12 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

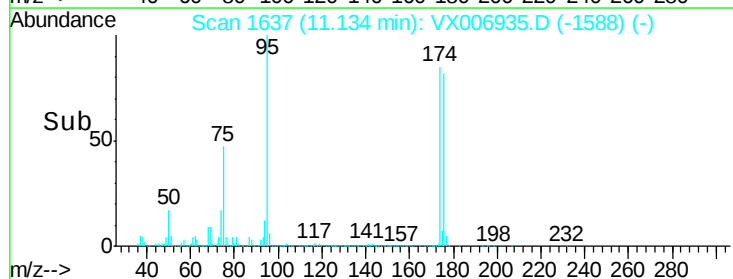
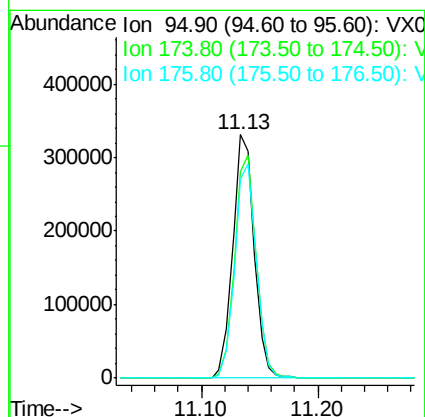
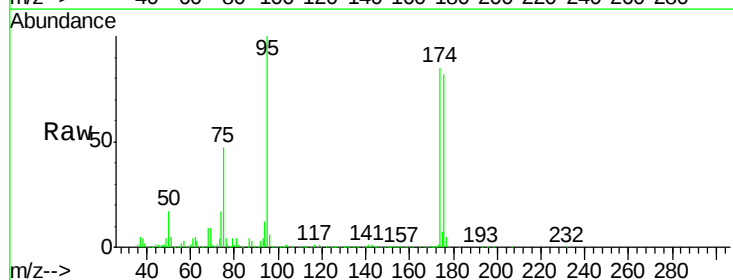
Instrument :
 MSVOA_X
 ClientSampleId :

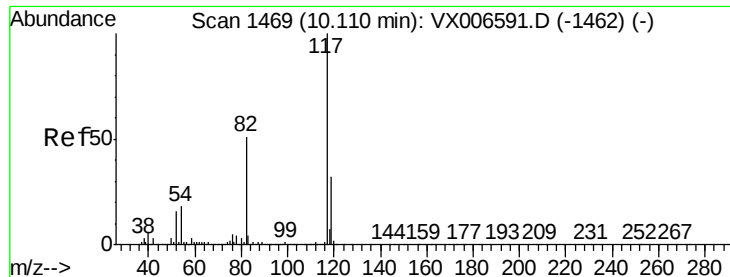
Tot Ion:129 Resp: 160
 Ion Ratio Lower Upper
 129 100
 127 66.9 39.3 117.8



#62
 4-Bromofluorobenzene
 Concen: 50.358 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX006935.D
 Acq: 07 Jan 2019 15:01

Tgt Ion: 95 Resp: 426196
 Ion Ratio Lower Upper
 95 100
 174 92.3 0.0 182.2
 176 88.7 0.0 178.8

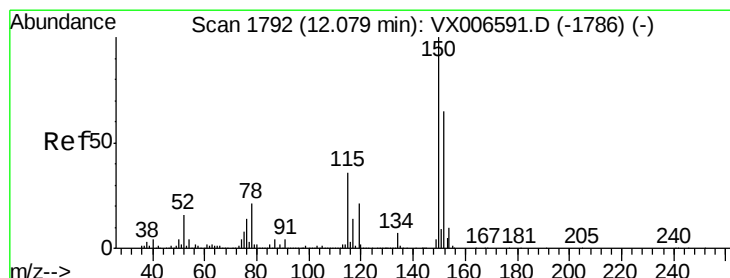
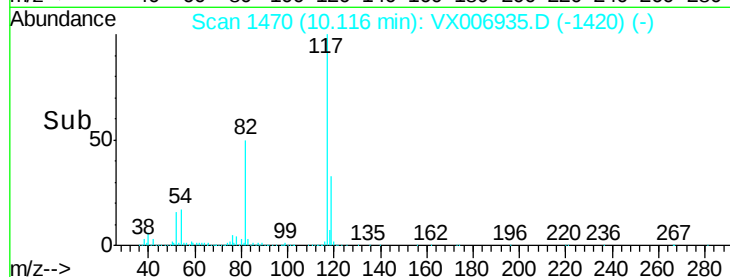
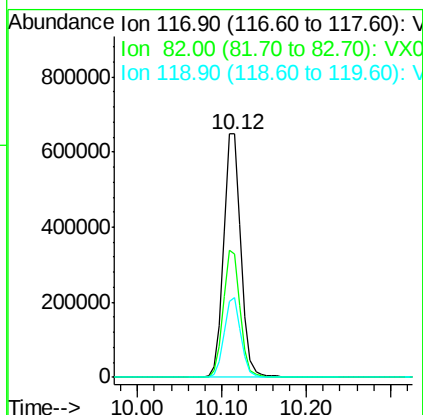
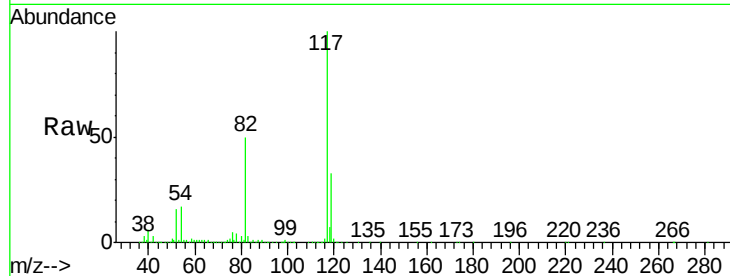




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

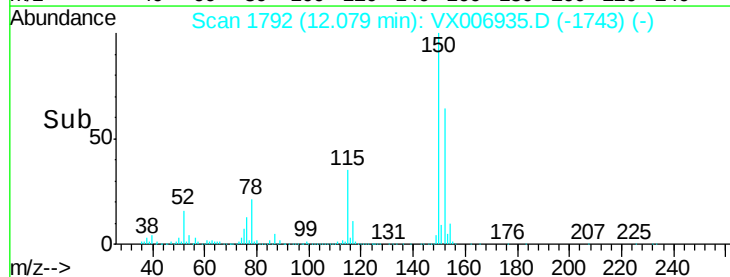
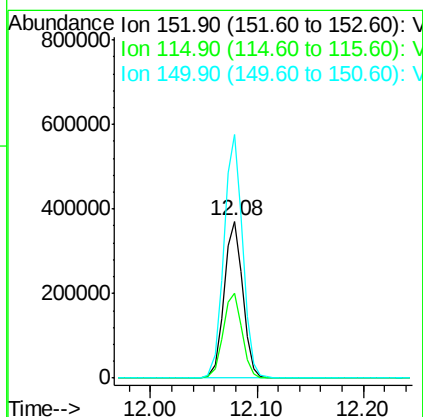
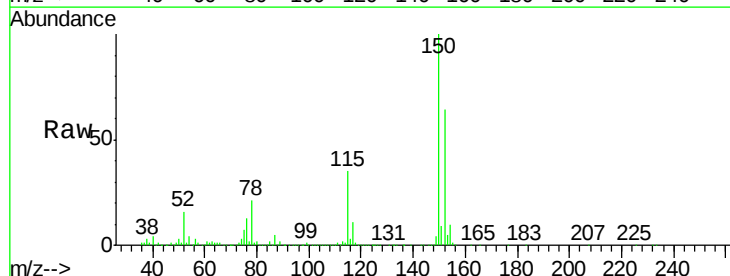
Instrument :
MSVOA_X
ClientSampled :

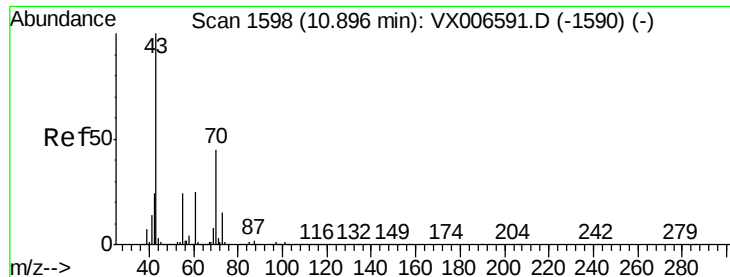
Tot Ion:117 Resp: 921533
Ion Ratio Lower Upper
117 100
82 50.5 41.0 61.6
119 33.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006935.D
Acq: 07 Jan 2019 15:01

Tgt Ion:152 Resp: 455355
Ion Ratio Lower Upper
152 100
115 54.6 39.1 117.2
150 155.7 0.0 344.8





#74

N-amvl acetate

Concen: 2.402 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 26780

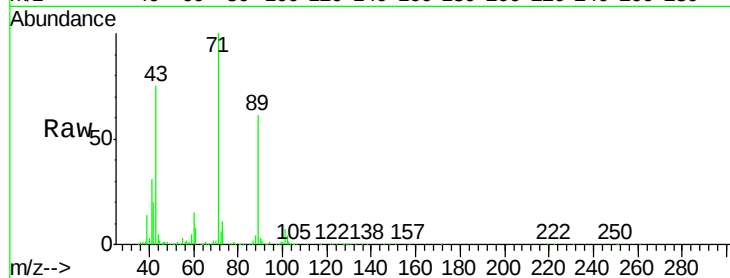
Ion Ratio Lower Upper

43 100

70 2.8 35.8 53.8#

55 5.7 19.4 29.0#

61 13.0 20.1 30.1#

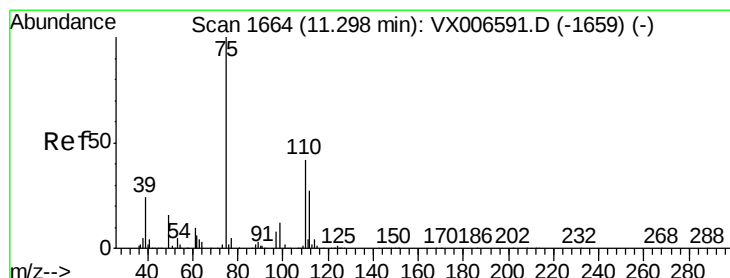
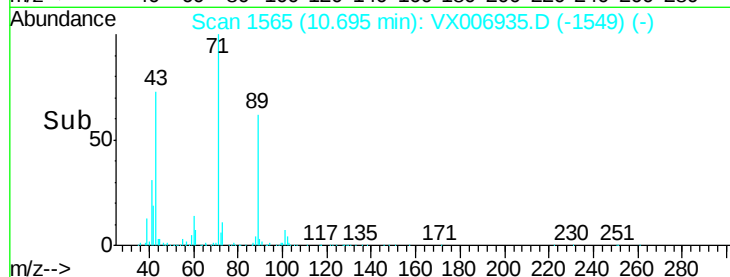
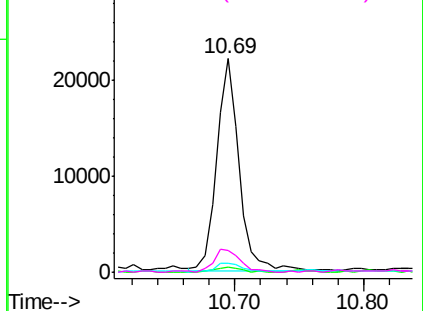


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.597 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006935.D

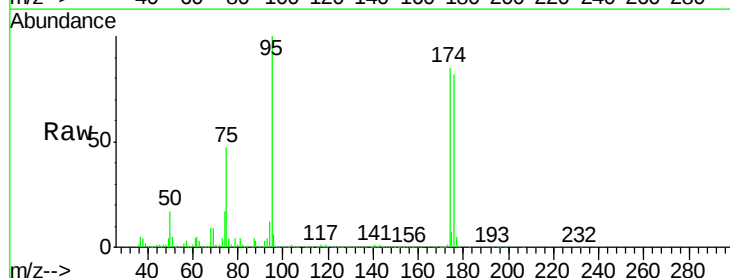
Acq: 07 Jan 2019 15:01

Tgt Ion: 75 Resp: 199691

Ion Ratio Lower Upper

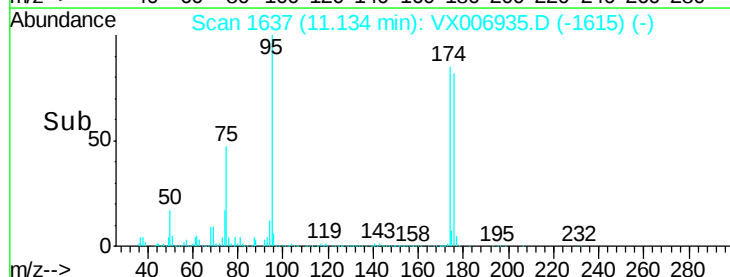
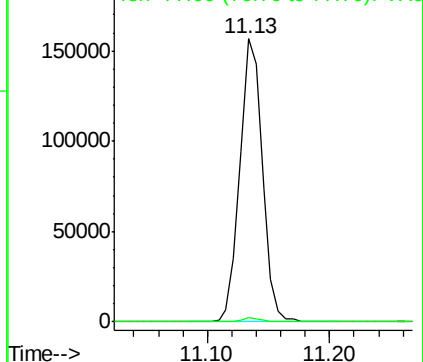
75 100

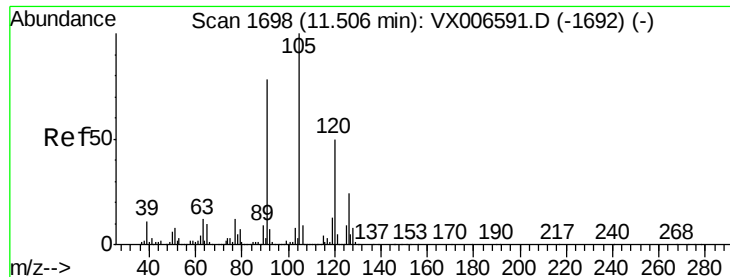
77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

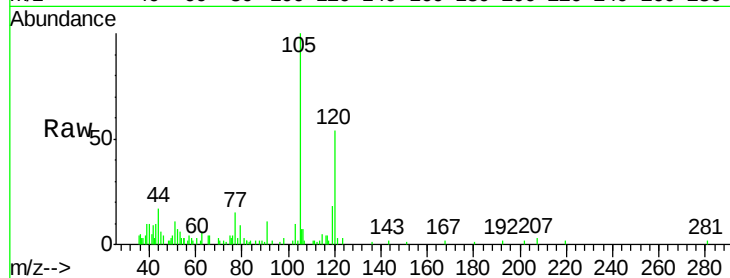
ClientSampleId :

Tot Ion:105 Resp: 5220

Ion Ratio Lower Upper

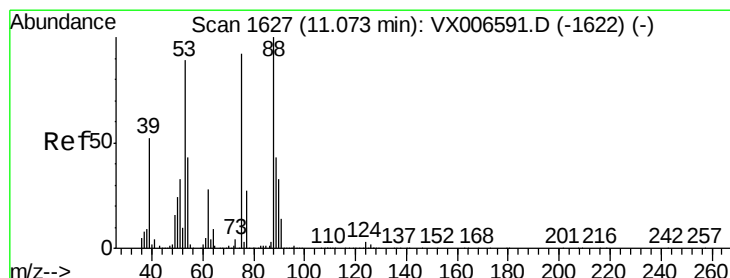
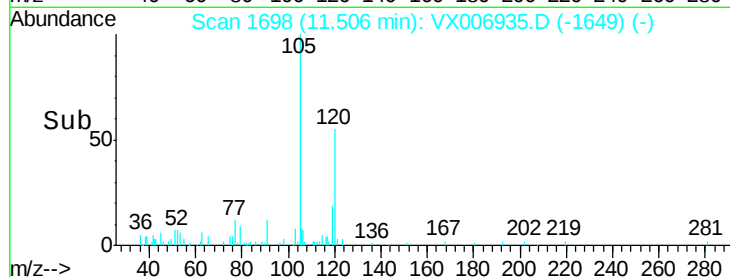
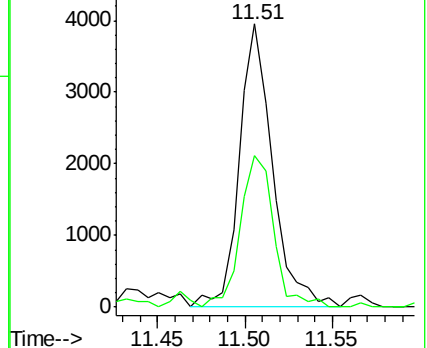
105 100

120 53.7 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 69.967 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

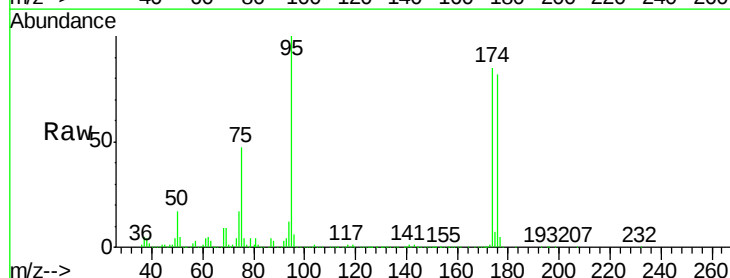
Tgt Ion: 75 Resp: 199691

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

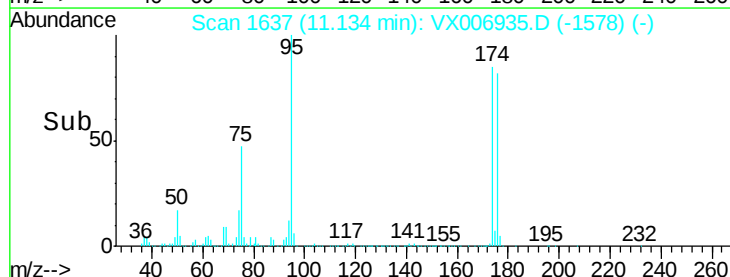
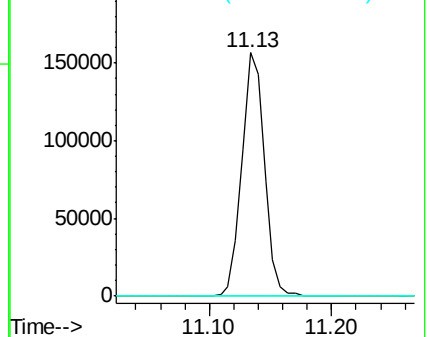
89 0.0 38.0 57.0#

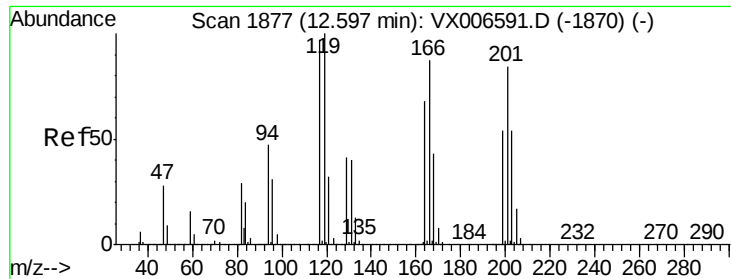


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 3.305 ug/l

RT: 12.84 min Scan# 1917

Delta R.T. 0.24 min

Lab File: VX006935.D

Acq: 07 Jan 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 53

Ion Ratio Lower Upper

117 100

201 90.6 42.9 128.7

