

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062719\
 Data File : VX010518.D
 Acq On : 28 Jun 2019 04:34
 Operator : JC/SP
 Sample : K3157-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-062619-E

Quant Time: Jun 28 06:57:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257506	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	393112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	365868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168251	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	120592	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	5.50	113	118373	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	8.71	98	473650	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	11.13	95	155708	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	

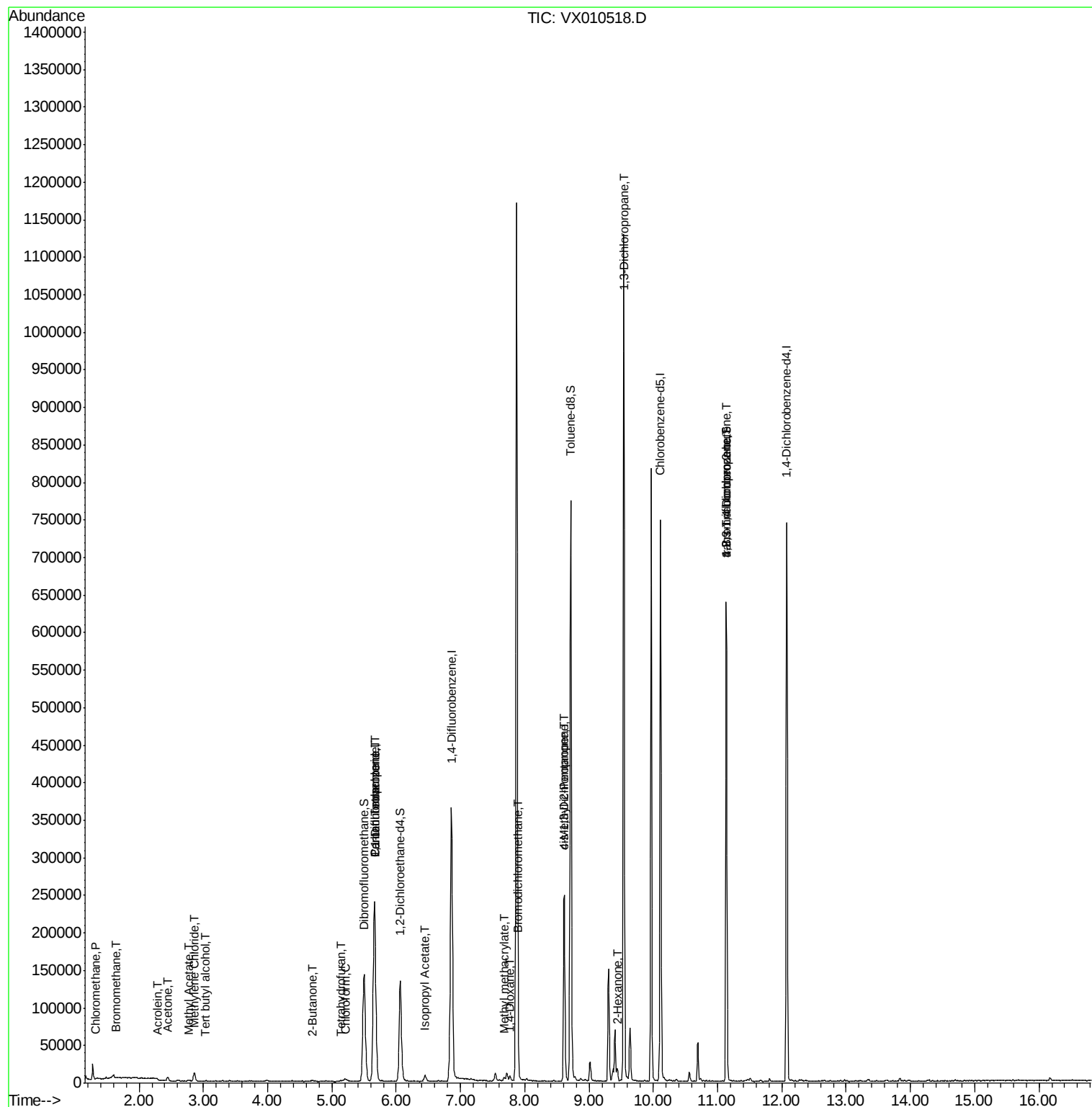
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	447	0.214	ug/l #	1
5) Bromomethane	1.65	94	328	0.295	ug/l #	80
11) Tert butyl alcohol	3.04	59	786	1.244	ug/l	100
13) Acrolein	2.29	56	340	0.811	ug/l #	14
16) Acetone	2.44	43	5648	4.668	ug/l	92
18) Methyl Acetate	2.78	43	2223	0.922	ug/l #	90
20) Methylene Chloride	2.86	84	5573	2.238	ug/l	97
25) 2-Butanone	4.69	43	1789	1.008	ug/l #	83
29) Tetrahydrofuran	5.14	42	316	0.287	ug/l #	1
30) Chloroform	5.22	83	3884	0.943	ug/l #	83
36) 1,1-Dichloropropene	5.67	75	15504	4.963	ug/l #	49
38) Carbon Tetrachloride	5.66	117	22462	6.640	ug/l #	15
43) Isopropyl Acetate	6.45	43	10545	1.983	ug/l	95
47) Bromodichloromethane	7.90	83	1004	0.311	ug/l #	83
48) Methyl methacrylate	7.68	41	6483	2.623	ug/l #	10
49) 1,4-Dioxane	7.76	88	19	0.267	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	77738	22.860	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	42208	10.720	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	10067	2.453	ug/l #	43
59) 2-Hexanone	9.44	43	9788	3.657	ug/l #	22
76) 1,2,3-Trichloropropane	11.13	75	74807	24.399	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74807	56.921	ug/l #	16

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

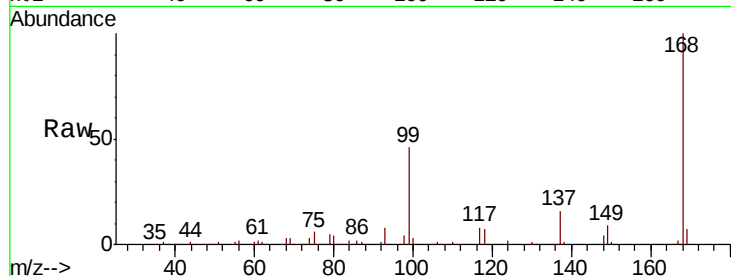
CL-02-062619-E

Tot Ion:168 Resp: 257506

Ion Ratio Lower Upper

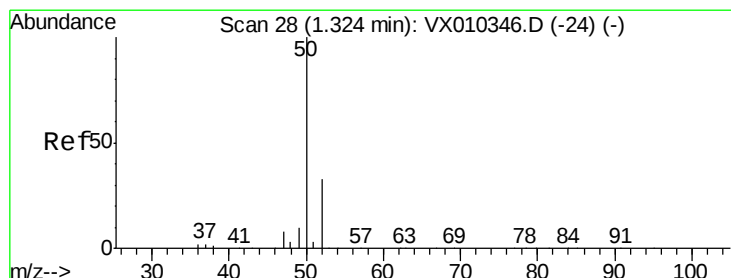
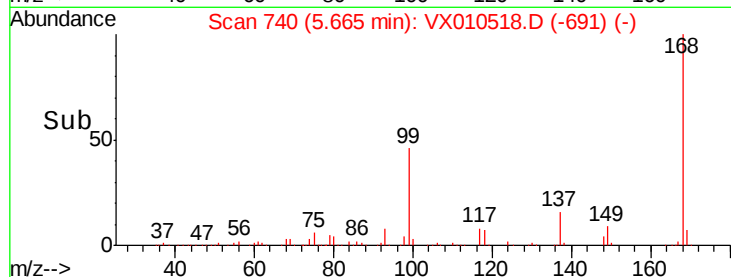
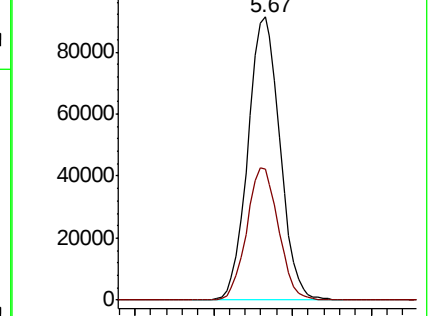
168 100

99 46.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010518.D

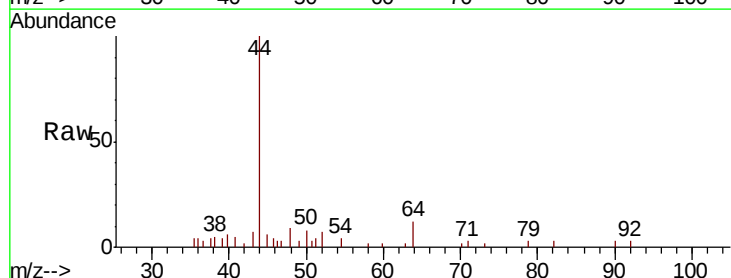
Acq: 28 Jun 2019 04:34

Tgt Ion: 50 Resp: 447

Ion Ratio Lower Upper

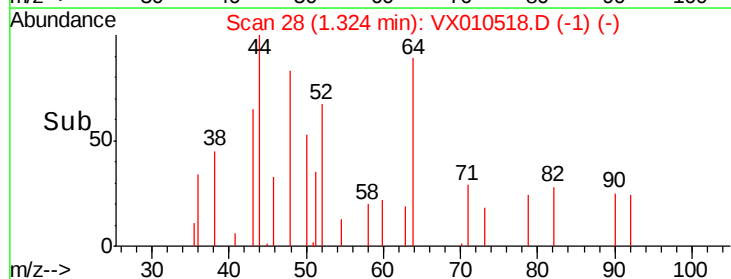
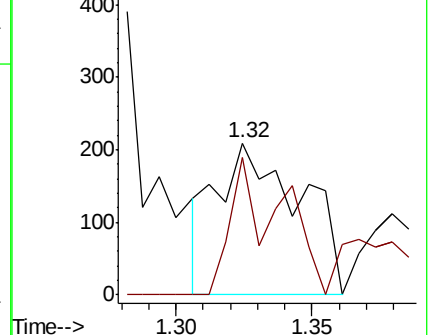
50 100

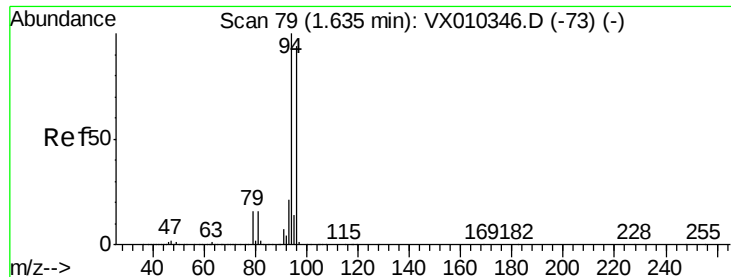
52 90.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.295 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

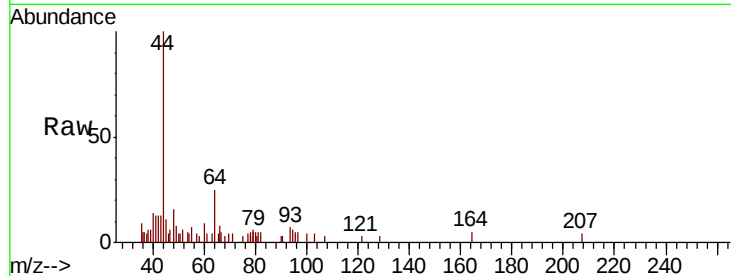
CL-02-062619-E

Tot Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 75.2 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

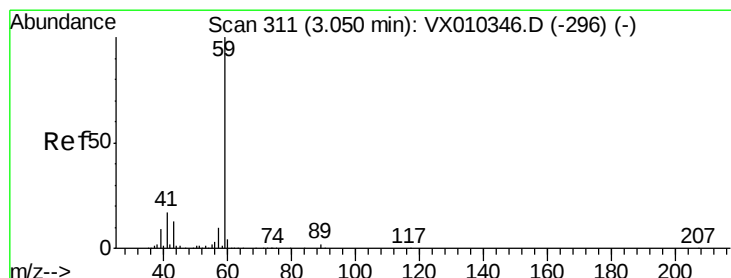
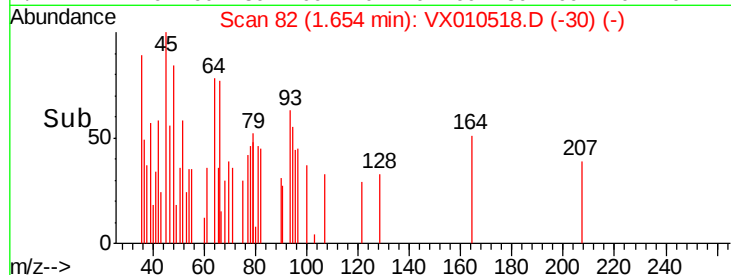
50

0

1.65

1.70

Time-->



#11

Tert butyl alcohol

Concen: 1.244 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX010518.D

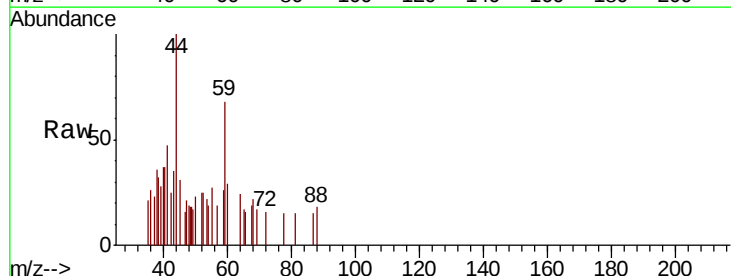
Acq: 28 Jun 2019 04:34

Tgt Ion: 59 Resp: 786

Ion Ratio Lower Upper

59 100

57 9.7 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

250

200

150

100

50

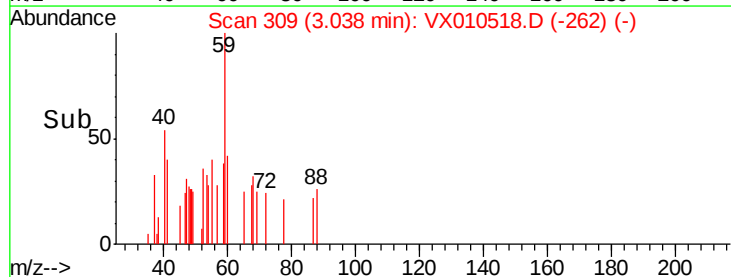
0

3.04

3.10

3.15

Time-->





#13

Acrolein

Concen: 0.811 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampled :

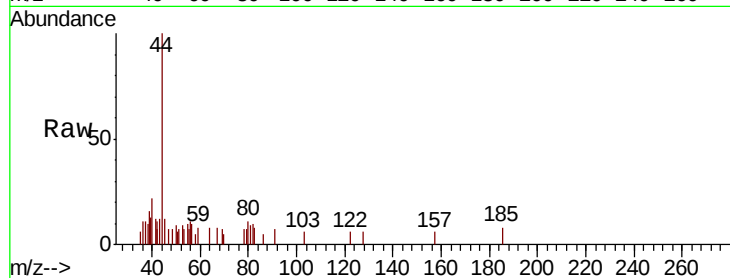
CL-02-062619-E

Tot Ion: 56 Resp: 340

Ion Ratio Lower Upper

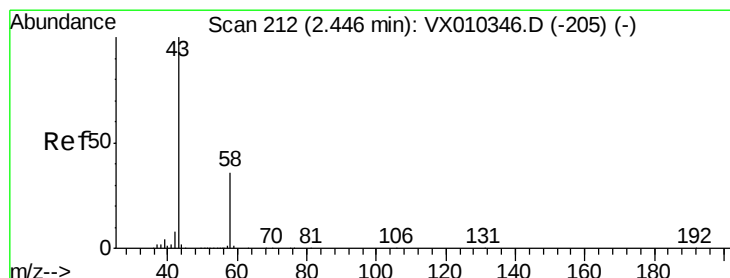
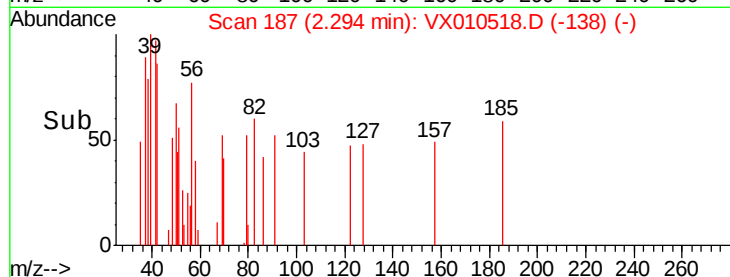
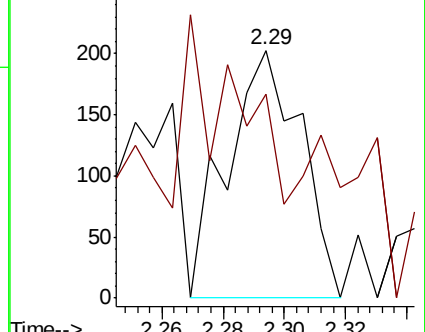
56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.668 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010518.D

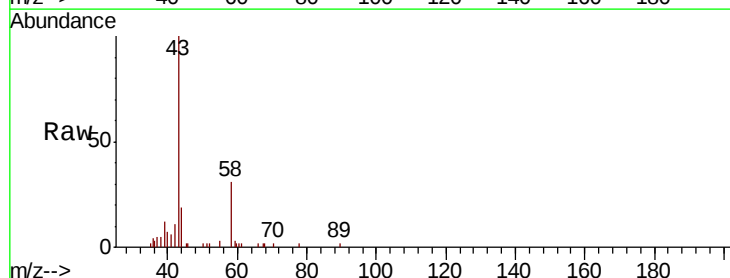
Acq: 28 Jun 2019 04:34

Tgt Ion: 43 Resp: 5648

Ion Ratio Lower Upper

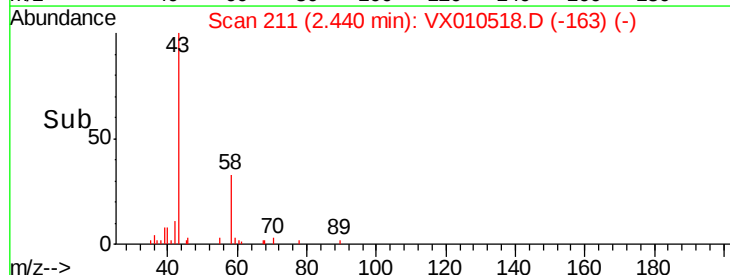
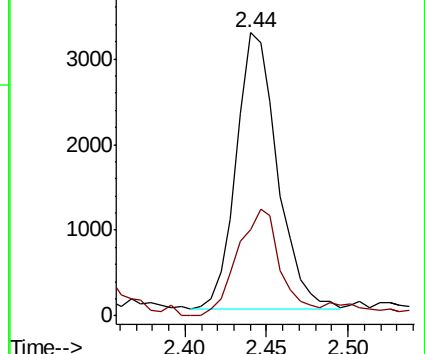
43 100

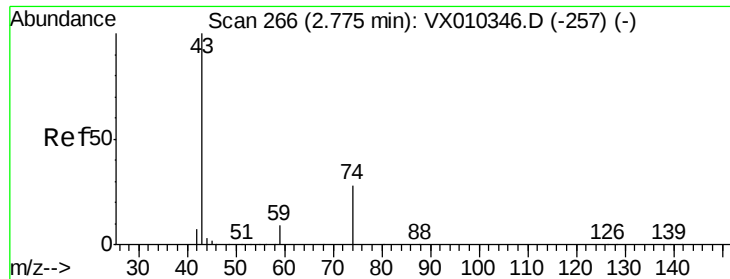
58 31.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

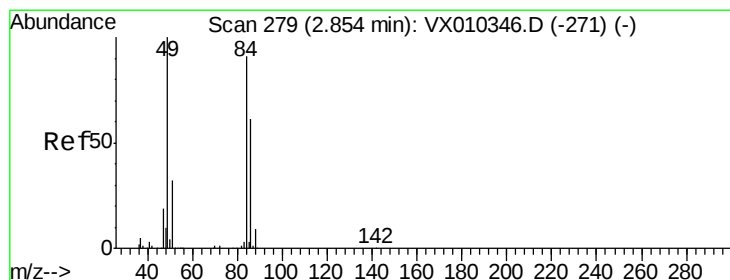
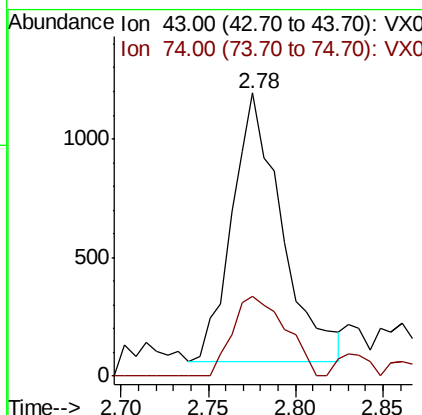
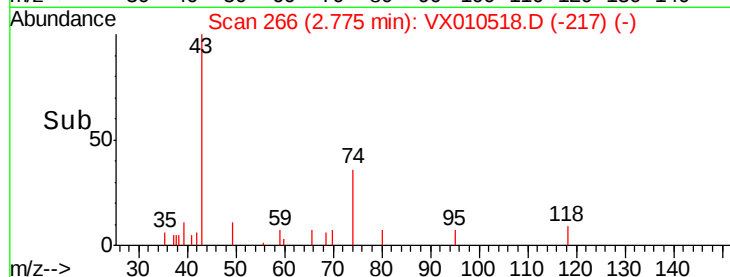
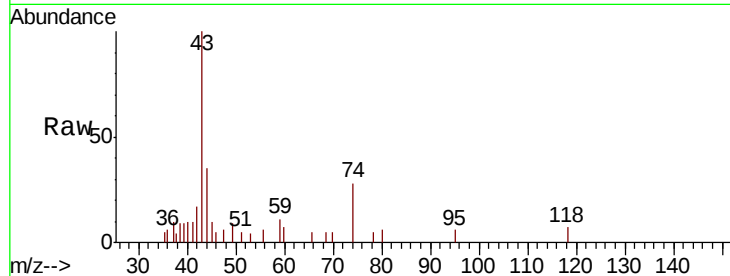




#18
Methvl Acetate
Concen: 0.922 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

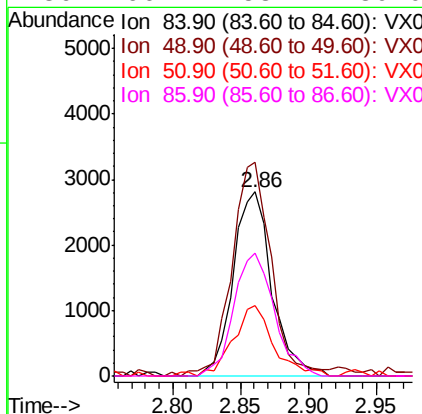
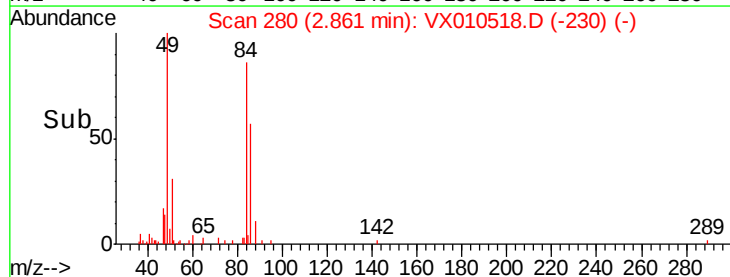
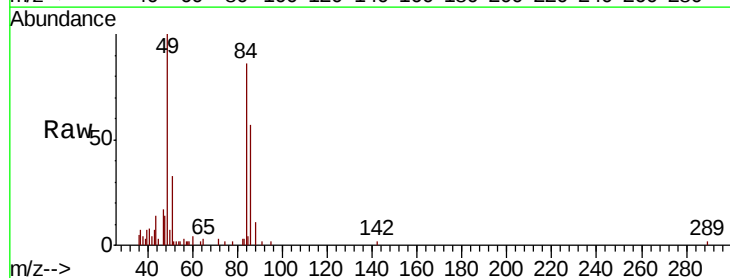
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-E

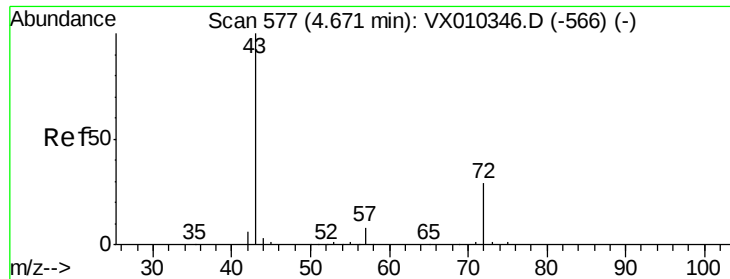
Tot Ion: 43 Resp: 2223
Ion Ratio Lower Upper
43 100
74 31.9 21.3 31.9#



#20
Methylene Chloride
Concen: 2.238 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

Tgt Ion: 84 Resp: 5573
Ion Ratio Lower Upper
84 100
49 113.7 87.5 131.3
51 38.1 27.7 41.5
86 66.7 53.4 80.0





#25

2-Butanone

Concen: 1.008 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

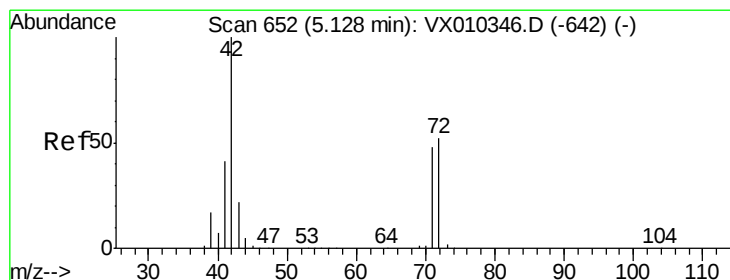
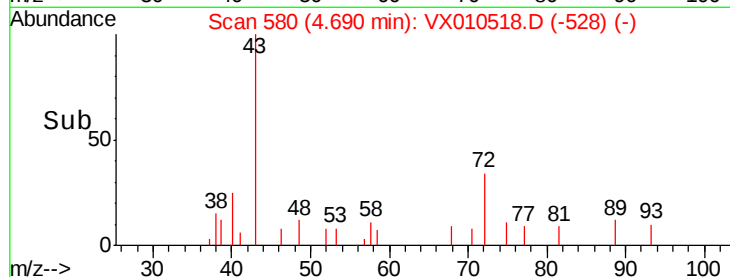
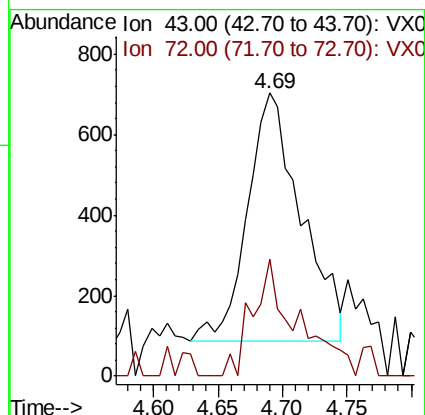
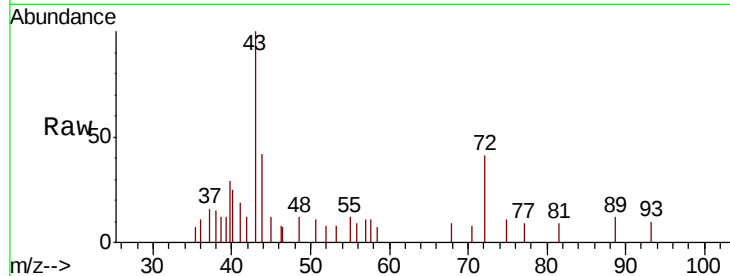
CL-02-062619-E

Tot Ion: 43 Resp: 1789

Ion Ratio Lower Upper

43 100

72 38.4 23.3 34.9#



#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

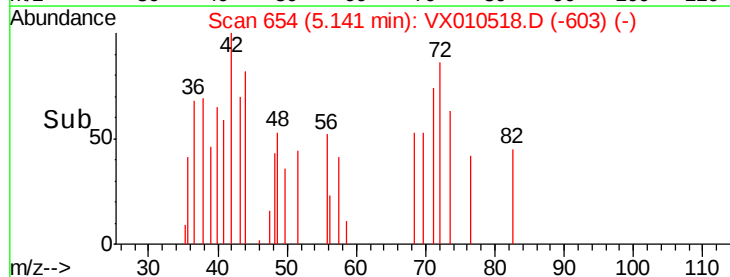
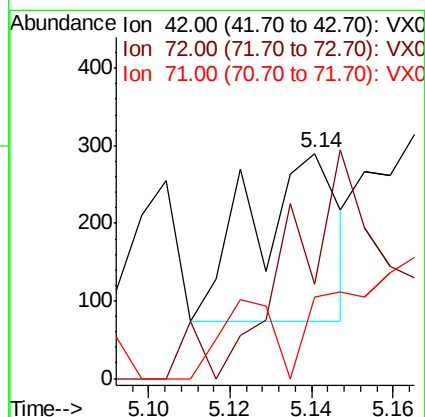
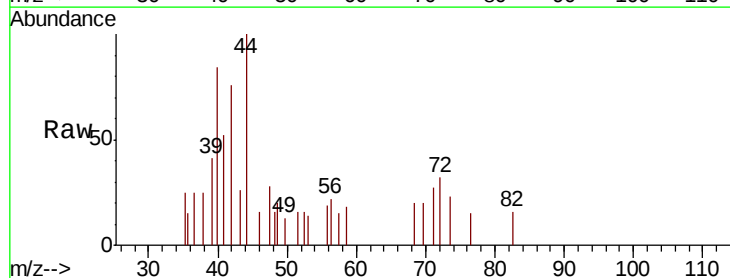
Tgt Ion: 42 Resp: 316

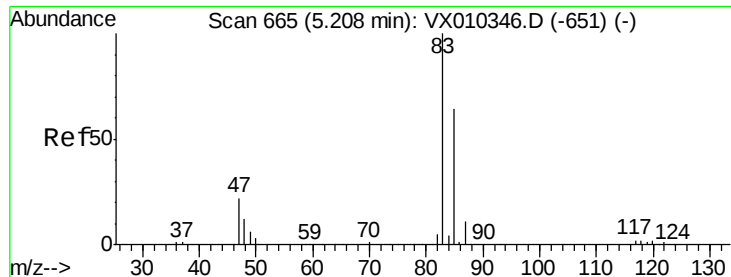
Ion Ratio Lower Upper

42 100

72 183.2 40.6 60.8#

71 0.0 37.8 56.8#

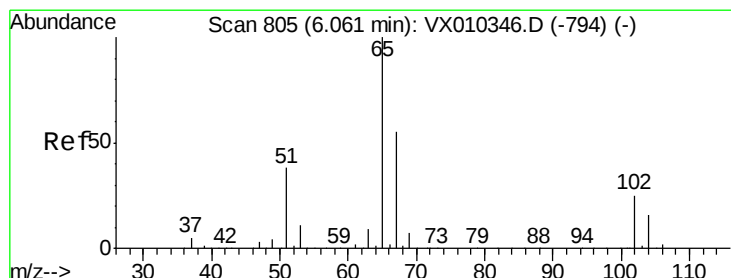
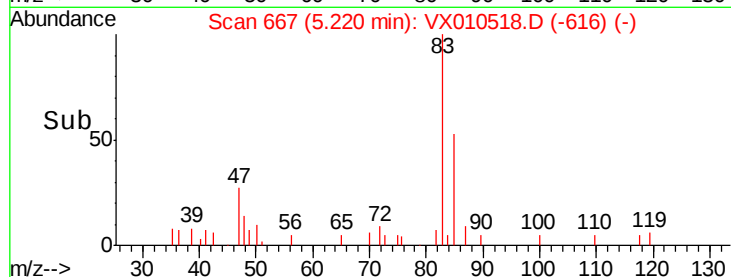
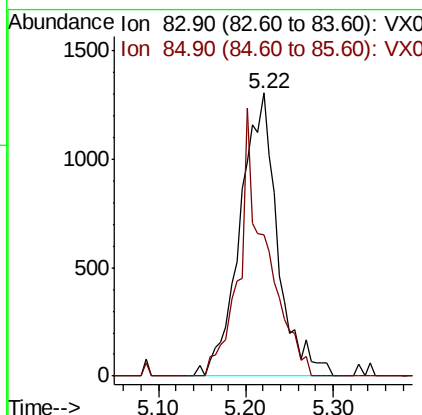
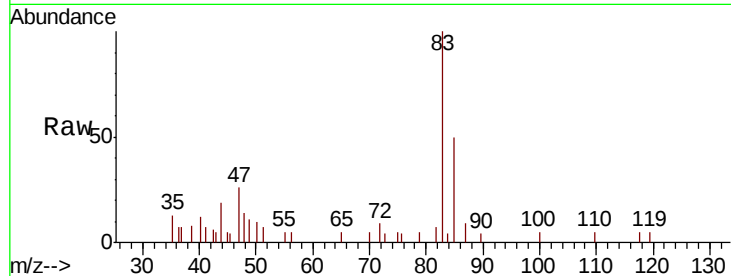




#30
Chloroform
Concen: 0.943 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

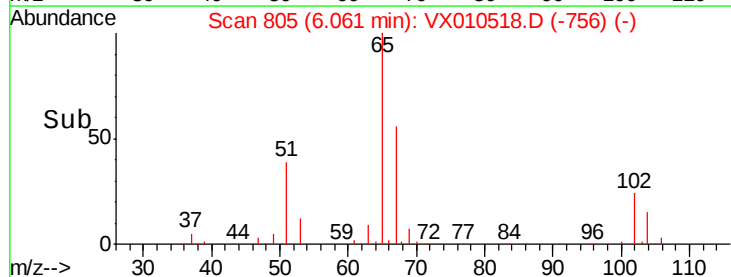
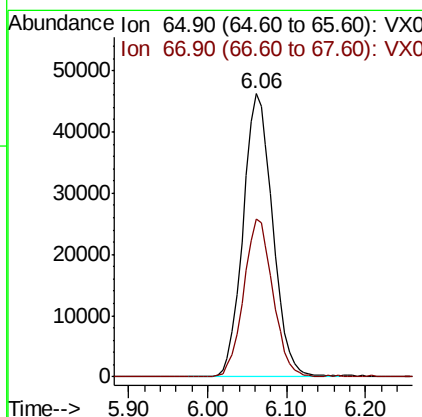
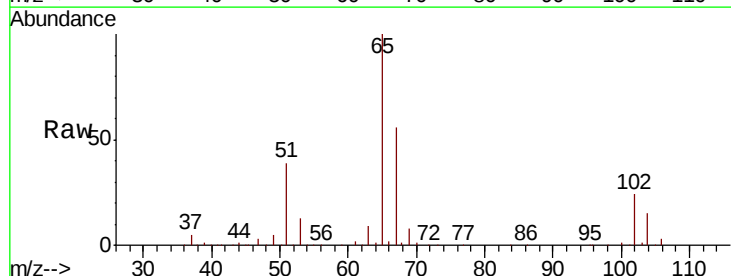
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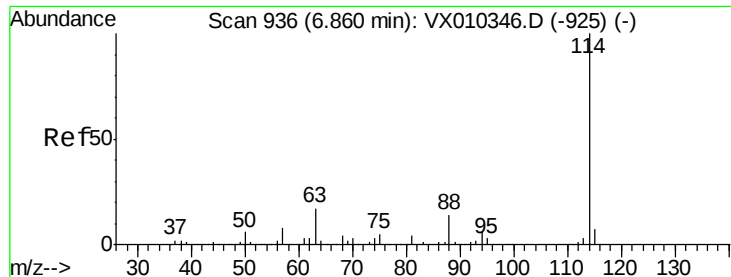
Tot Ion: 83 Resp: 3884
Ion Ratio Lower Upper
83 100
85 50.1 50.9 76.3#



#33
1,2-Dichloroethane-d4
Concen: 49.947 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

Tgt Ion: 65 Resp: 120592
Ion Ratio Lower Upper
65 100
67 55.1 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

CL-02-062619-E

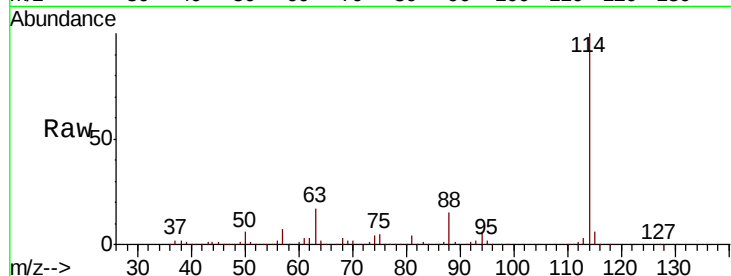
Tot Ion:114 Resp: 393112

Ion Ratio Lower Upper

114 100

63 16.7 0.0 33.8

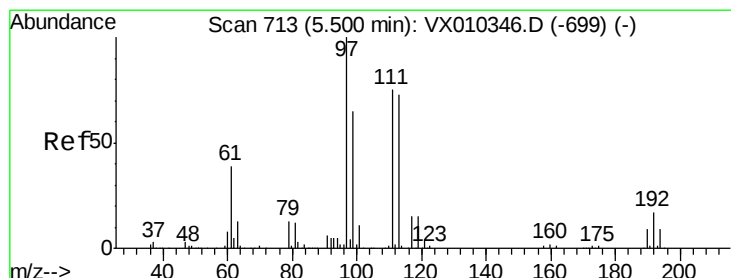
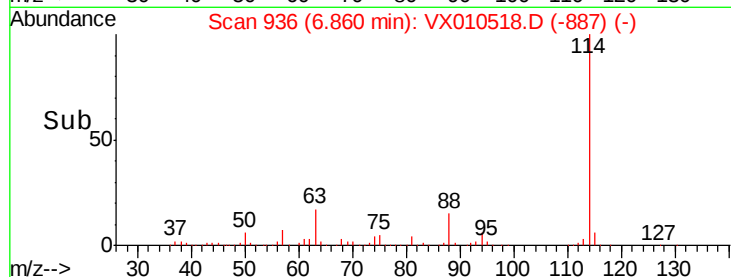
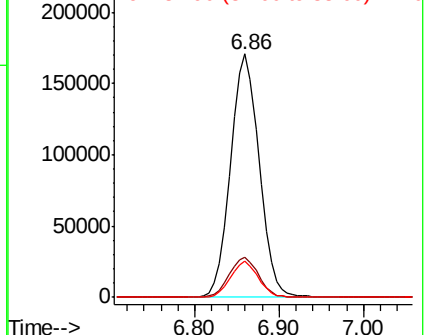
88 14.7 0.0 27.6



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: 49.215 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

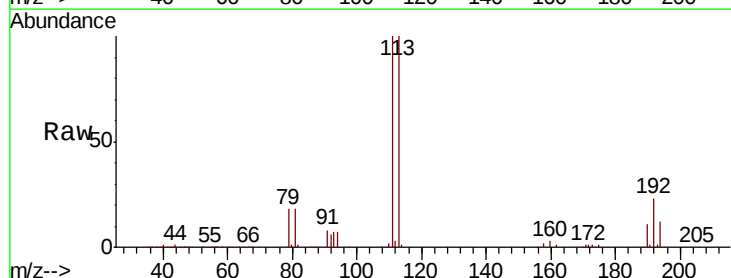
Tgt Ion:113 Resp: 118373

Ion Ratio Lower Upper

113 100

111 103.1 81.2 121.8

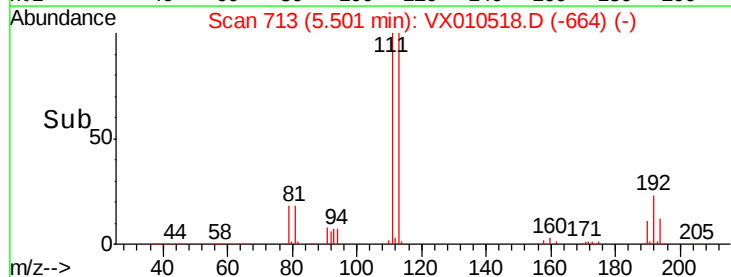
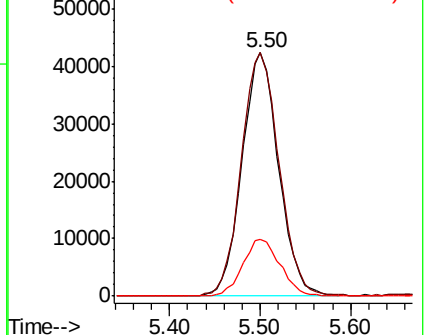
192 23.7 18.6 27.8

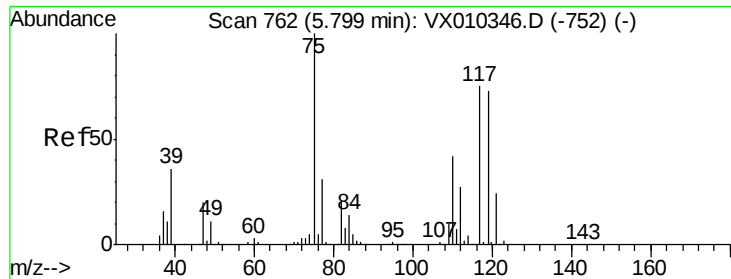


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

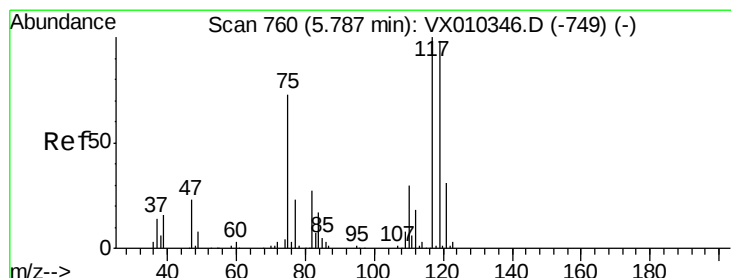
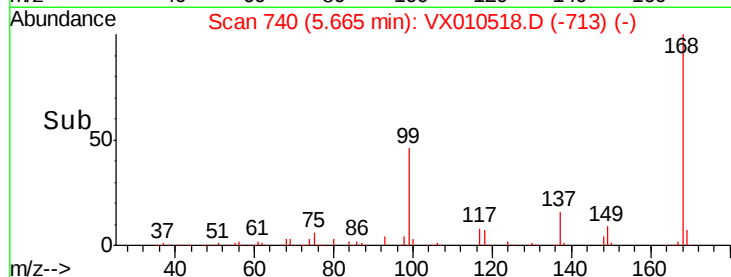
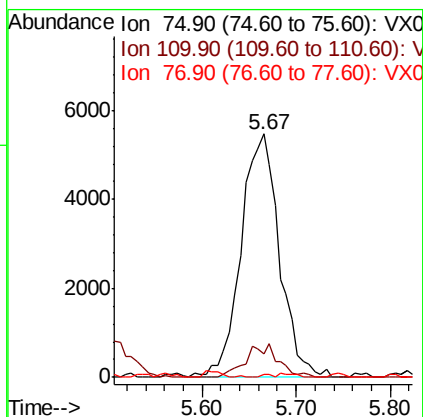
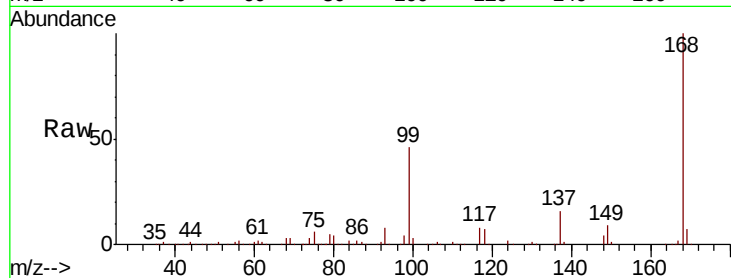




#36
 1,1-Dichloropropene
 Concen: 4.963 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010518.D
 Acq: 28 Jun 2019 04:34

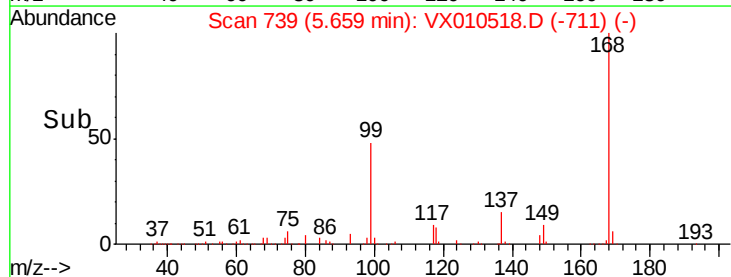
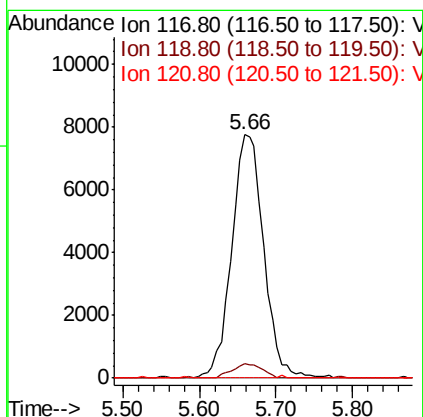
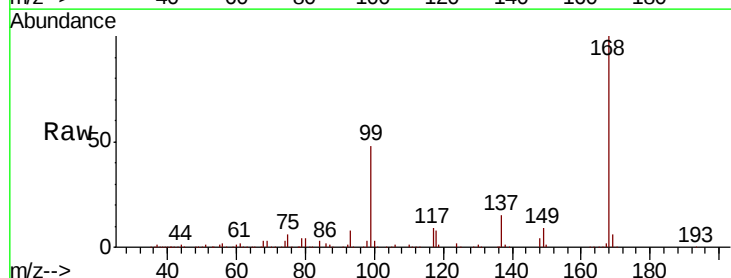
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-062619-E

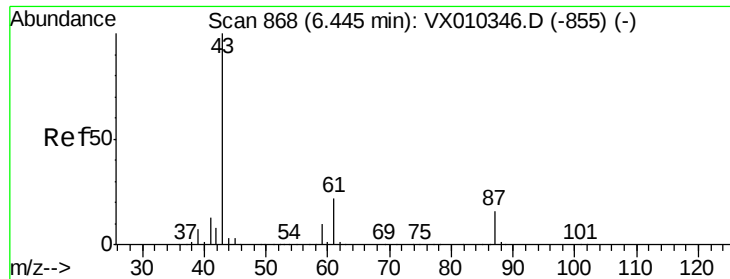
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	20.8	62.2#
77	0.3	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.640 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010518.D
 Acq: 28 Jun 2019 04:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	78.2	117.4#
121	0.0	24.7	37.1#



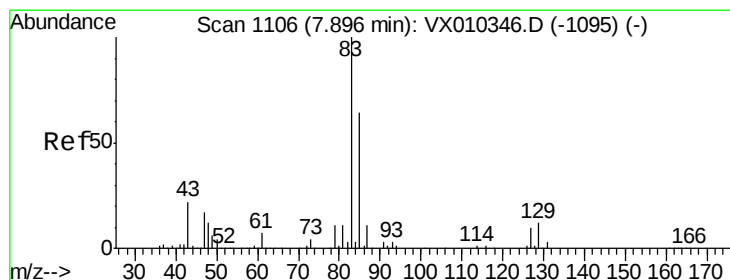
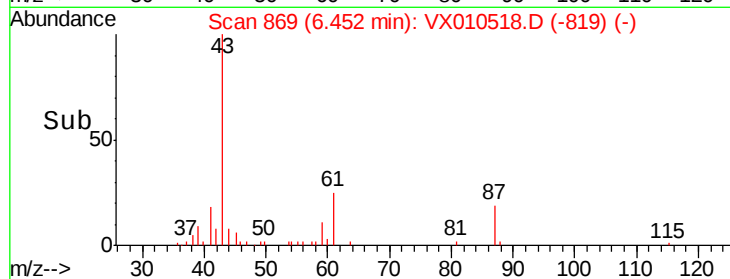
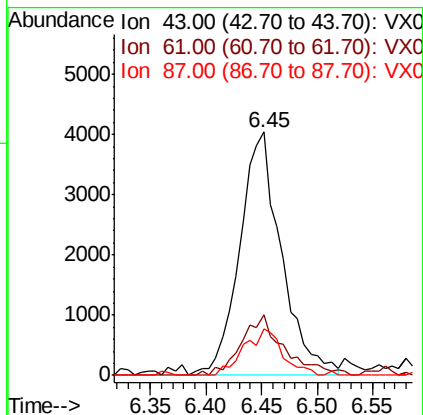
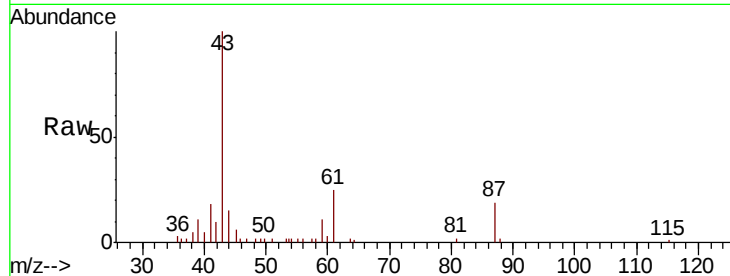


#43

Isopropyl Acetate
 Concen: 1.983 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX010518.D
 Acq: 28 Jun 2019 04:34

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-062619-E

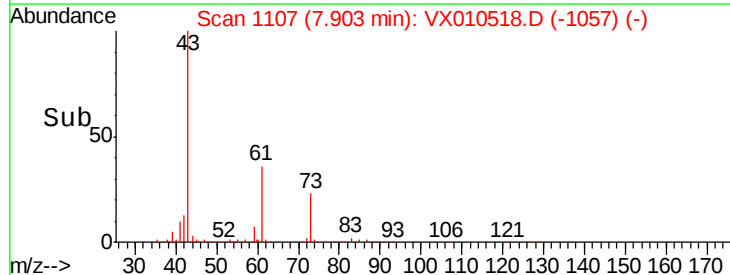
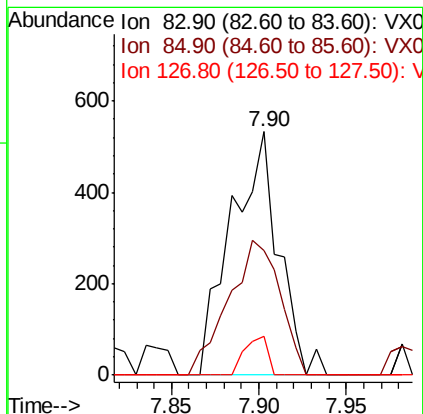
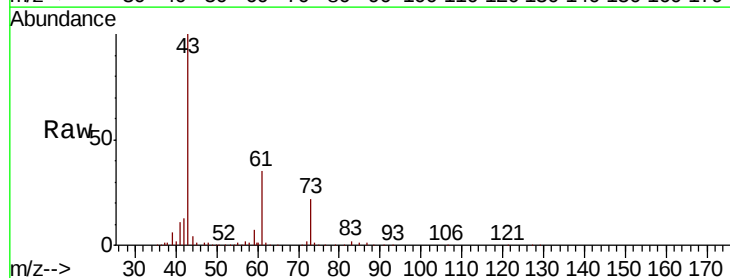
Tot Ion	43	Resp	10545
Ion Ratio	Lower	Upper	
43	100		
61	25.5	17.8	26.6
87	17.7	13.0	19.4

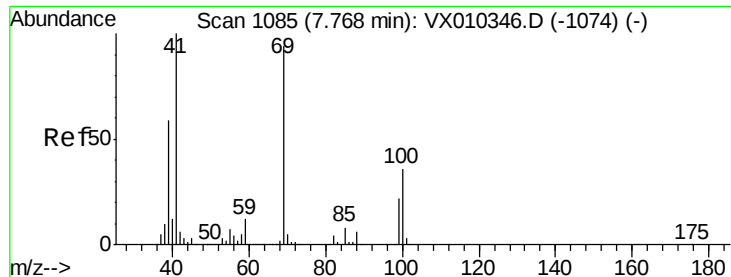


#47

Bromodichloromethane
 Concen: 0.311 ug/l
 RT: 7.90 min Scan# 1107
 Delta R.T. 0.01 min
 Lab File: VX010518.D
 Acq: 28 Jun 2019 04:34

Tgt Ion	83	Resp	1004
Ion Ratio	Lower	Upper	
83	100		
85	51.0	51.5	77.3#
127	15.9	7.8	11.8#





#48

Methvl methacrylate

Concen: 2.623 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

CL-02-062619-E

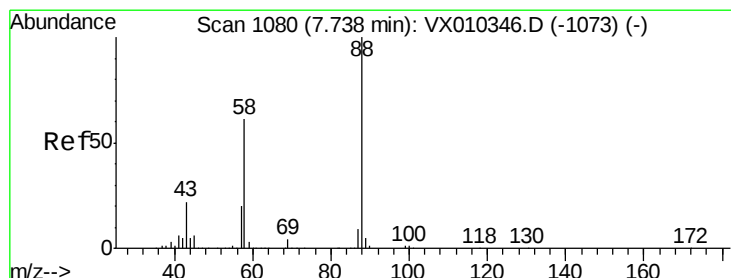
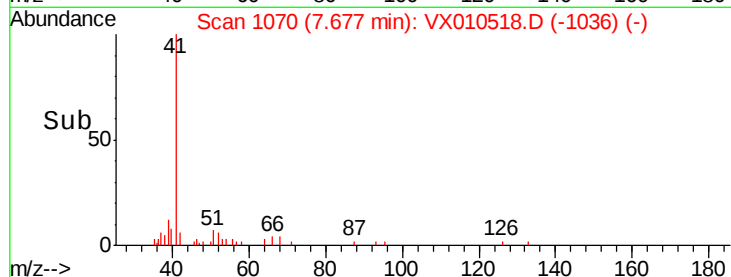
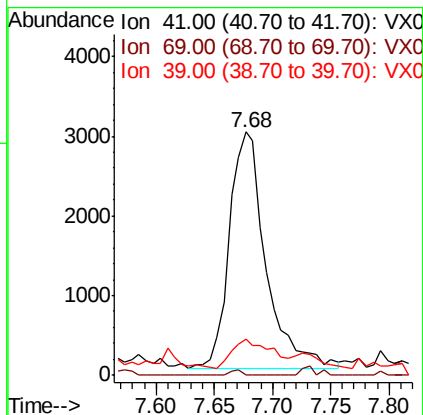
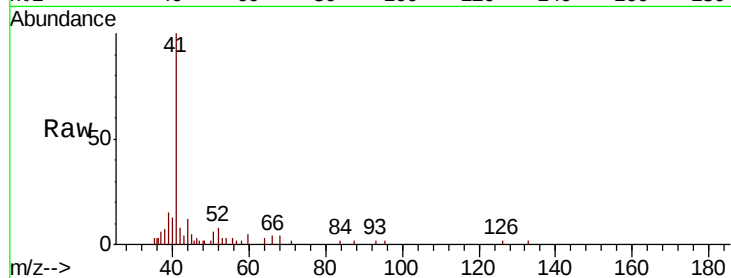
Tot Ion: 41 Resp: 6483

Ion Ratio Lower Upper

41 100

69 0.7 76.1 114.1#

39 0.0 47.6 71.4#



#49

1,4-Dioxane

Concen: 0.267 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

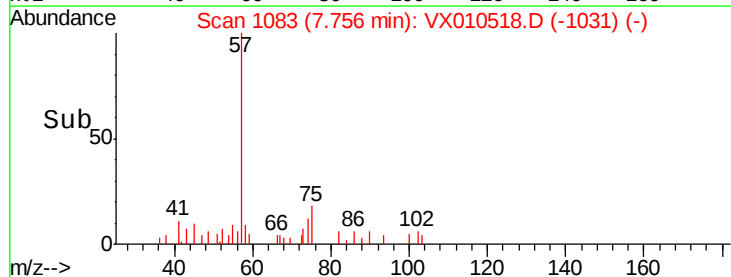
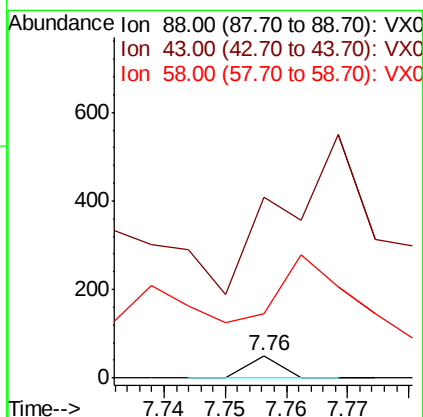
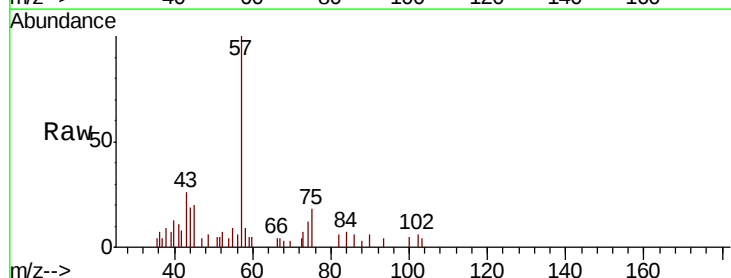
Tgt Ion: 88 Resp: 19

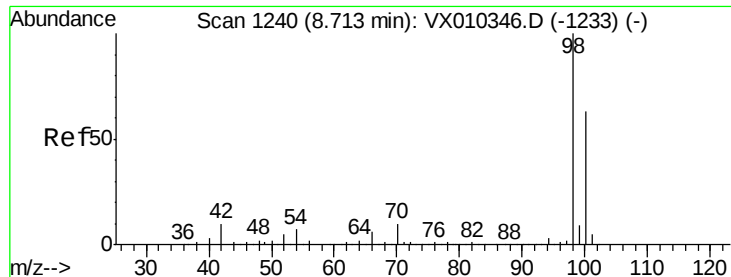
Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

58 1952.6 49.5 74.3#





#50

Toluene-d8

Concen: 51.473 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

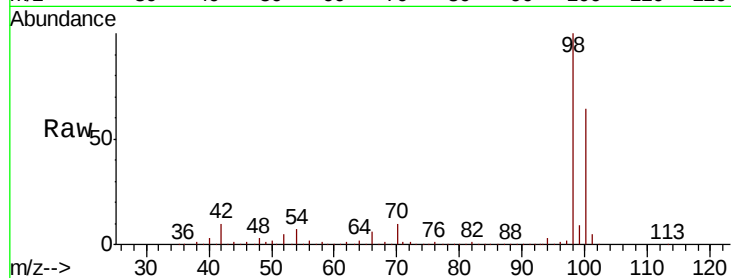
CL-02-062619-E

Tot Ion: 98 Resp: 473650

Ion Ratio Lower Upper

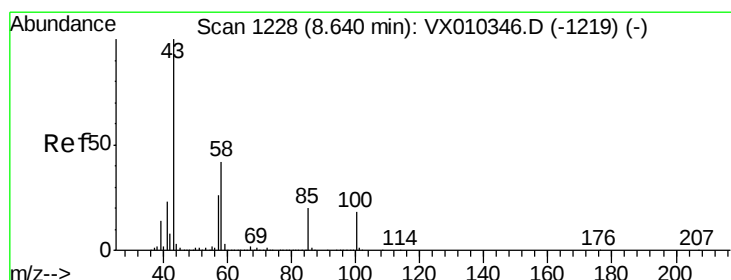
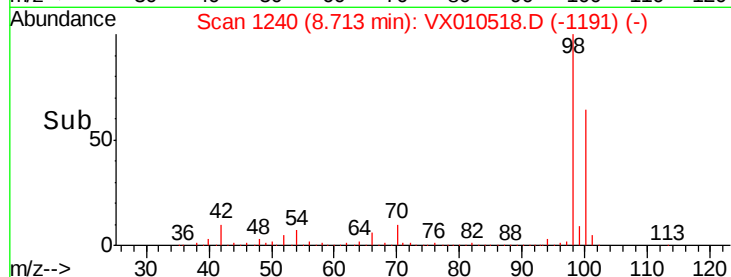
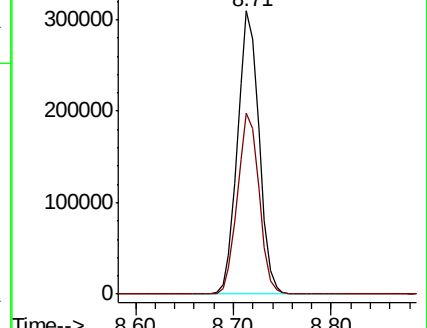
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 22.860 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX010518.D

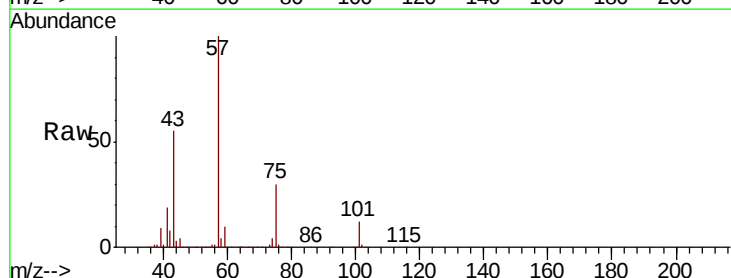
Acq: 28 Jun 2019 04:34

Tgt Ion: 43 Resp: 77738

Ion Ratio Lower Upper

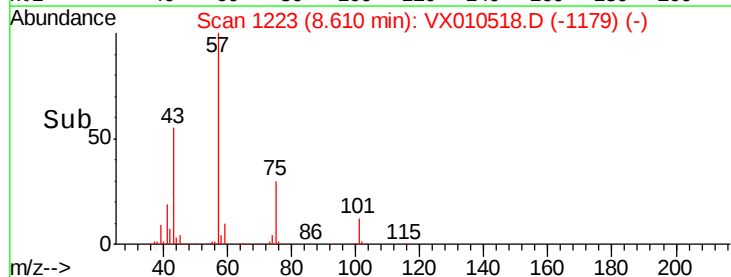
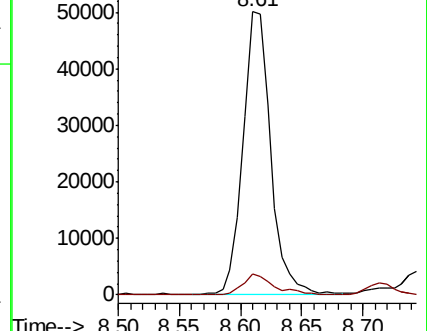
43 100

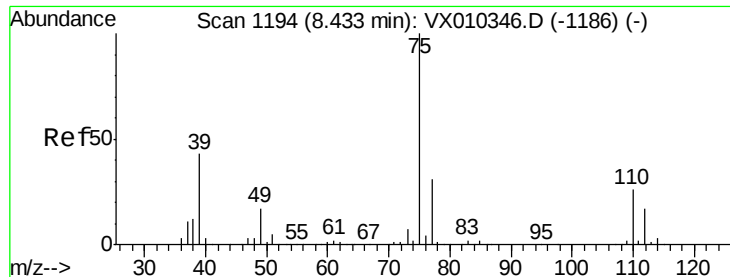
58 8.7 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 10.720 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

CL-02-062619-E

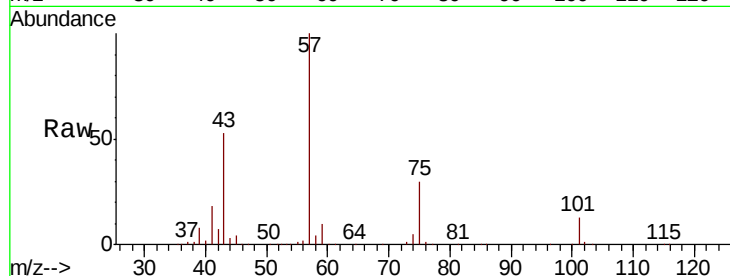
Tot Ion: 75 Resp: 42208

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

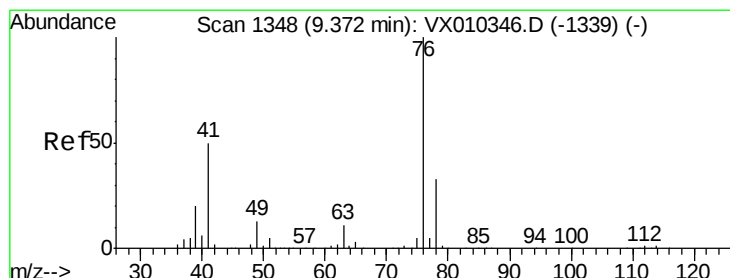
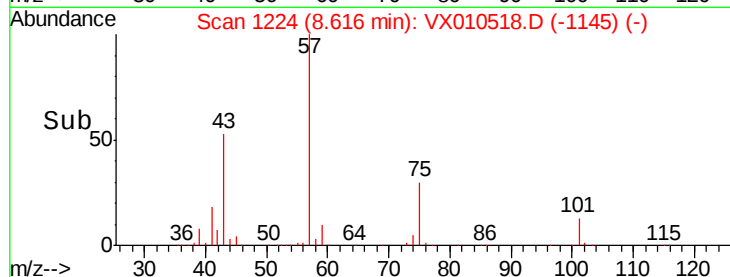
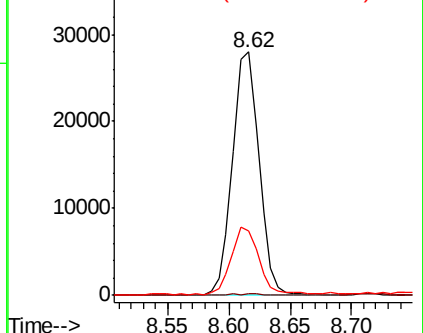
39 26.3 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.453 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX010518.D

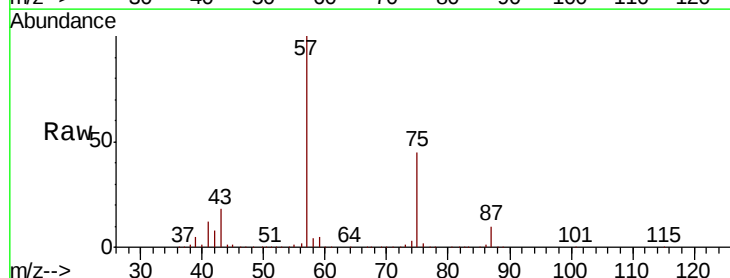
Acq: 28 Jun 2019 04:34

Tgt Ion: 76 Resp: 10067

Ion Ratio Lower Upper

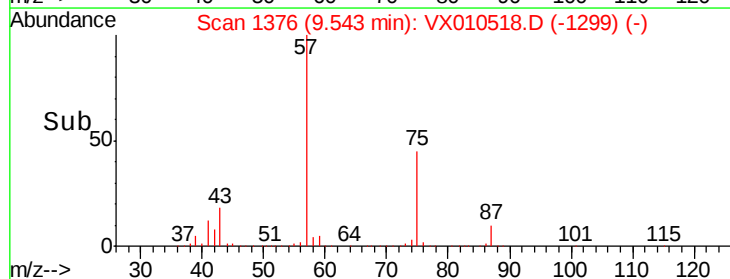
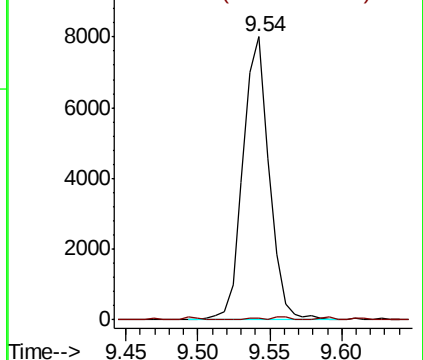
76 100

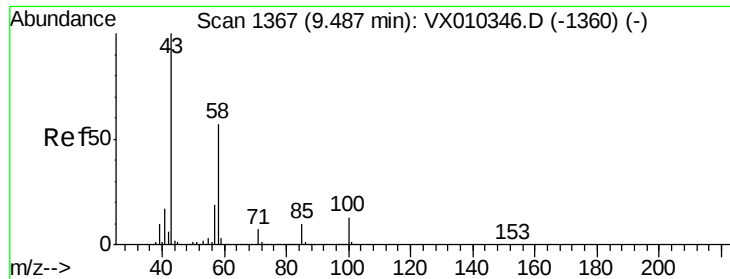
78 0.4 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

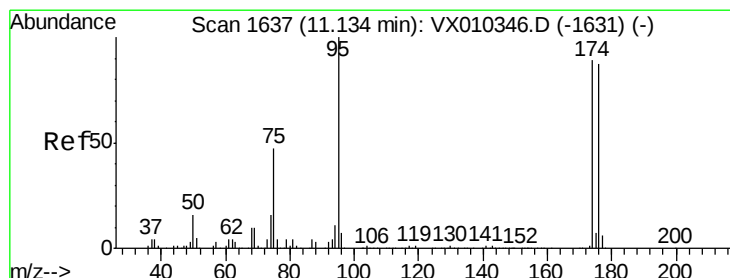
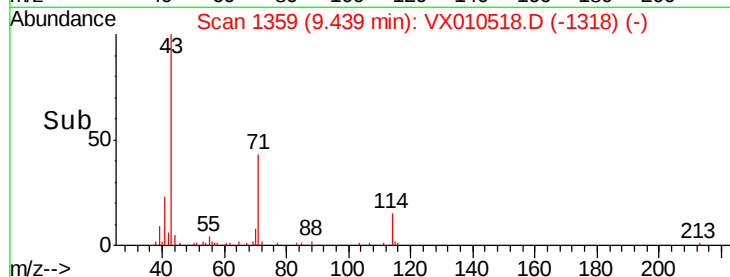
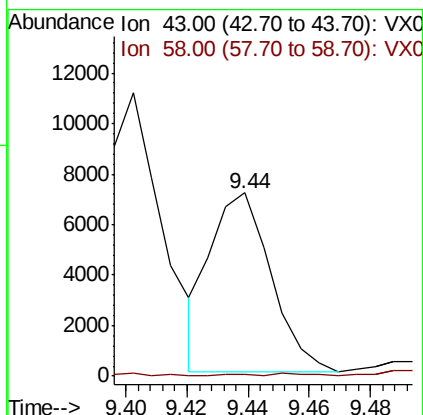
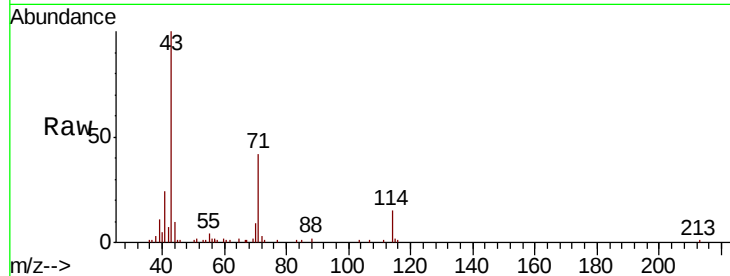




#59
2-Hexanone
Concen: 3.657 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

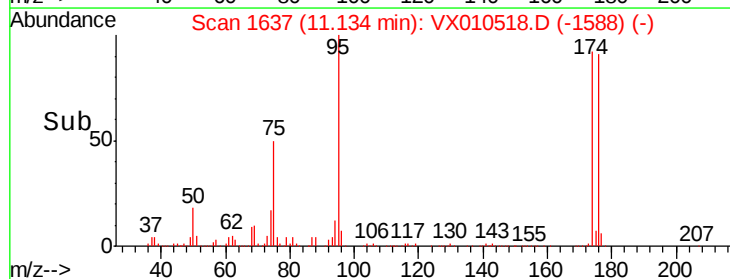
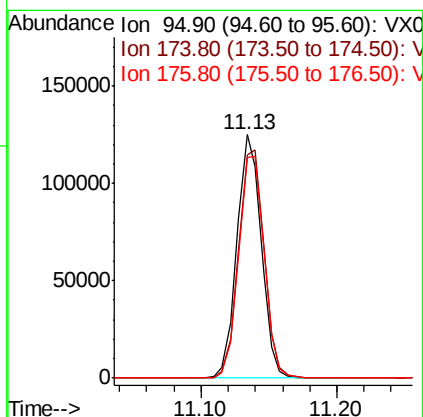
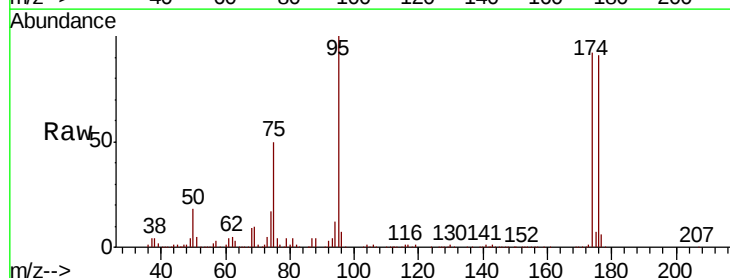
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-E

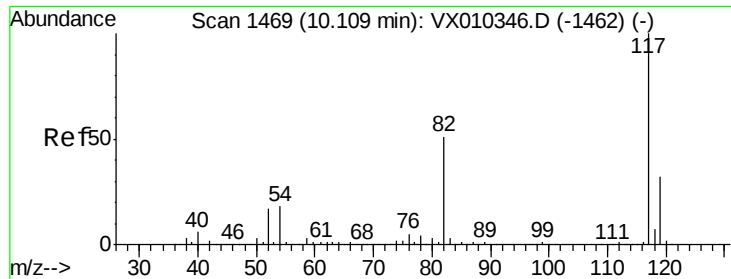
Tot Ion: 43 Resp: 9788
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.1#



#62
4-Bromofluorobenzene
Concen: 46.870 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

Tgt Ion: 95 Resp: 155708
Ion Ratio Lower Upper
95 100
174 98.3 0.0 187.6
176 95.8 0.0 184.0

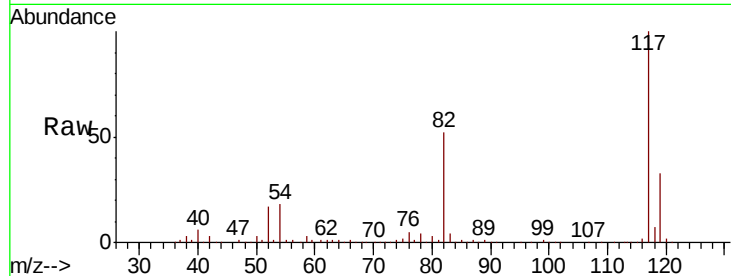




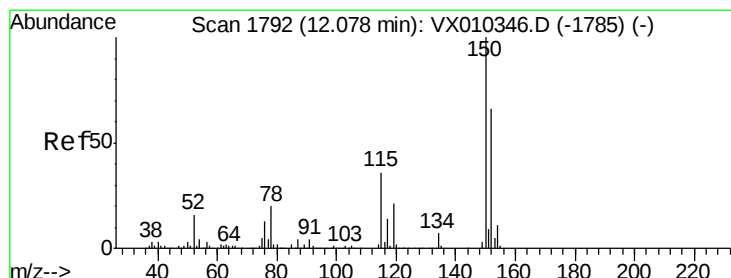
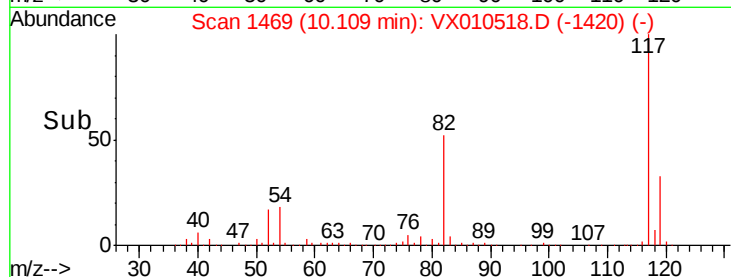
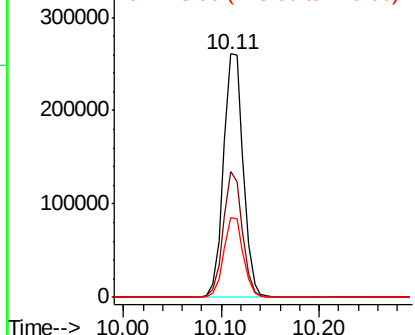
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-E

Tot Ion:117 Resp: 365868
Ion Ratio Lower Upper
117 100
82 51.8 41.2 61.8
119 32.8 25.5 38.3

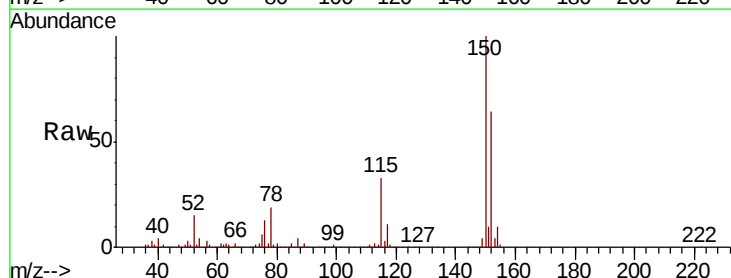


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

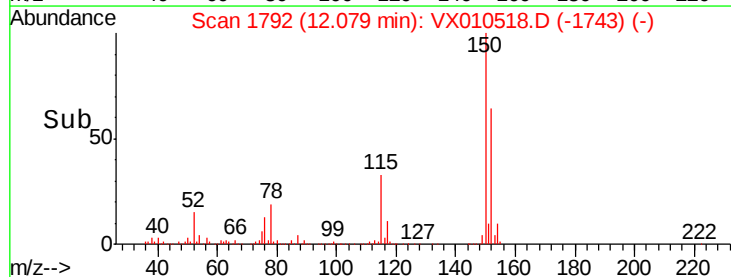
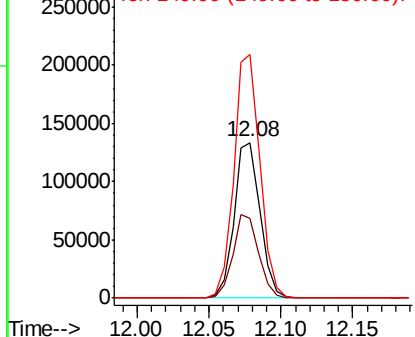


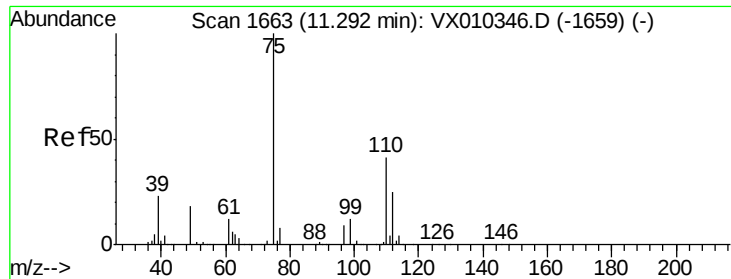
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010518.D
Acq: 28 Jun 2019 04:34

Tgt Ion:152 Resp: 168251
Ion Ratio Lower Upper
152 100
115 53.5 38.6 115.7
150 156.8 0.0 347.4



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: 24.399 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

Instrument :

MSVOA_X

ClientSampleId :

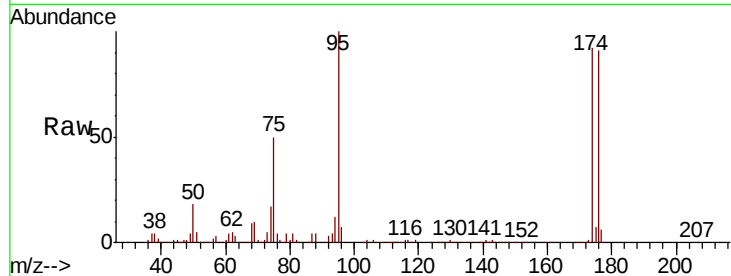
CL-02-062619-E

Tot Ion: 75 Resp: 74807

Ion Ratio Lower Upper

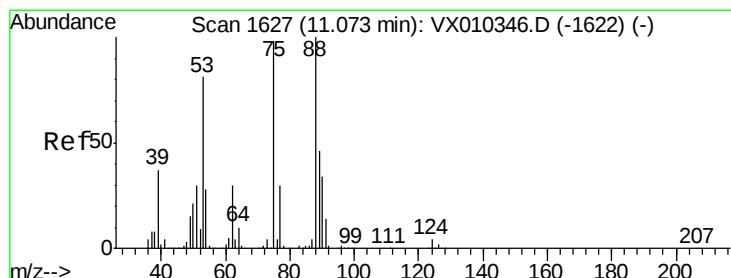
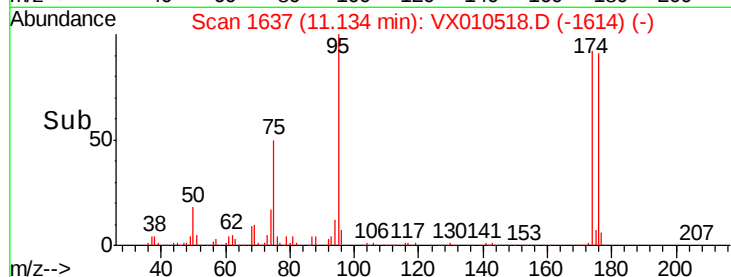
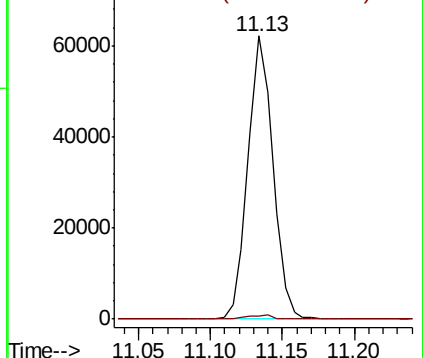
75 100

77 1.5 22.6 67.8#



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: 56.921 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010518.D

Acq: 28 Jun 2019 04:34

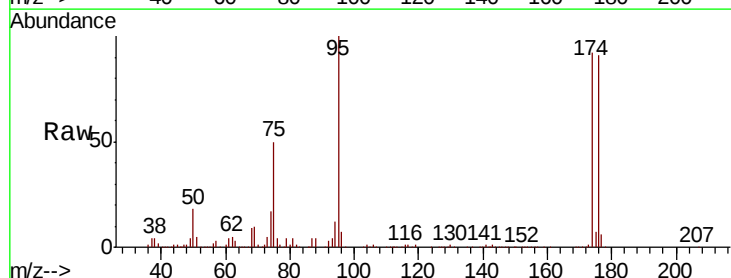
Tgt Ion: 75 Resp: 74807

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.1 37.8 56.6#



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

