

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062719\
 Data File : VX010514.D
 Acq On : 28 Jun 2019 03:00
 Operator : JC/SP
 Sample : K3157-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

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

Quant Time: Jun 28 06:56:29 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	262934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	401840	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	374362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171197	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	123129	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	5.50	113	121649	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.71	98	480801	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.13	95	159956	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	432	0.380	ug/l	94
11) Tert butyl alcohol	3.04	59	687	1.065	ug/l #	90
13) Acrolein	2.29	56	210	0.491	ug/l #	5
16) Acetone	2.45	43	4939	3.998	ug/l	91
18) Methyl Acetate	2.78	43	2936	1.192	ug/l	94
20) Methylene Chloride	2.86	84	2573	1.012	ug/l #	83
25) 2-Butanone	4.69	43	2537	1.400	ug/l #	75
29) Tetrahydrofuran	5.14	42	268	0.239	ug/l #	1
30) Chloroform	5.22	83	4204	0.999	ug/l	86
36) 1,1-Dichloropropene	5.66	75	15788	4.944	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23051	6.666	ug/l #	16
43) Isopropyl Acetate	6.45	43	10794	1.986	ug/l	96
47) Bromodichloromethane	7.90	83	857	0.259	ug/l #	72
48) Methyl methacrylate	7.68	41	6180	2.446	ug/l #	9
49) 1,4-Dioxane	7.71	88	61	0.838	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	80174	23.064	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	44784	11.128	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	10419	2.484	ug/l #	44
59) 2-Hexanone	9.44	43	10437	3.815	ug/l #	22
74) N-amyl acetate	10.69	43	11892	2.711	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	76371	24.481	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76371	57.111	ug/l #	16
95) Naphthalene	13.83	128	4098	0.342	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010514.D

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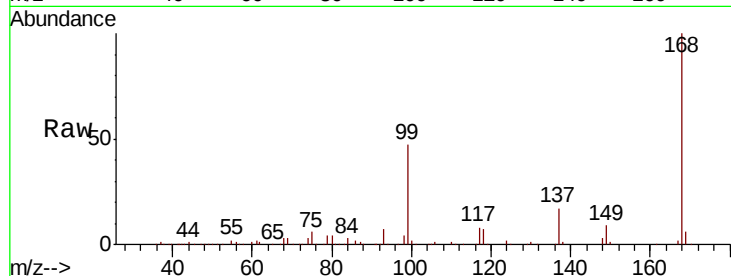
CL-02-062619-A

Tot Ion:168 Resp: 262934

Ion Ratio Lower Upper

168 100

99 46.7 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

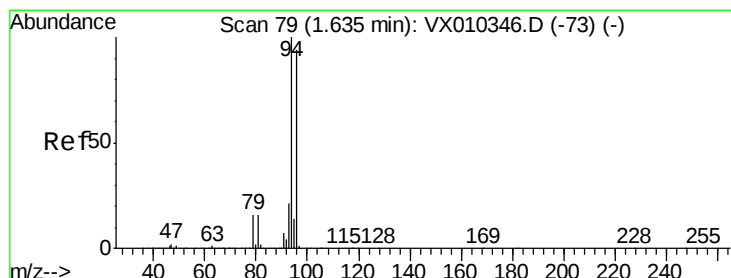
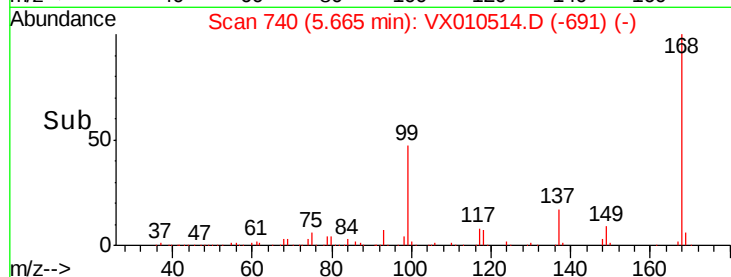
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.380 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010514.D

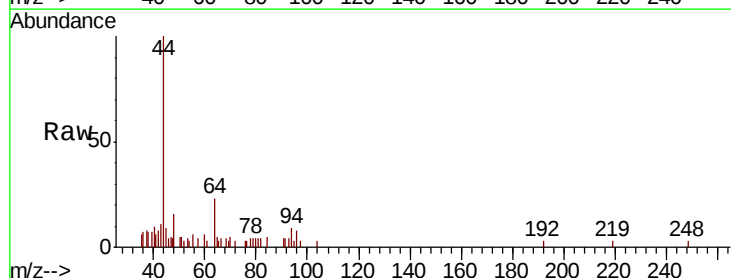
Acq: 28 Jun 2019 03:00

Tgt Ion: 94 Resp: 432

Ion Ratio Lower Upper

94 100

96 88.7 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

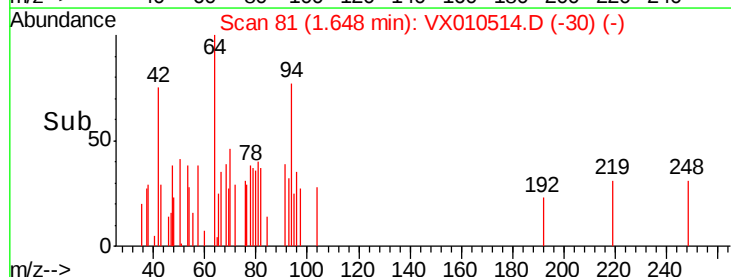
150

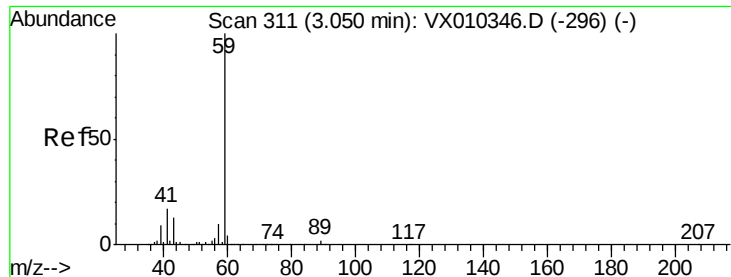
100

50

0

Time--> 1.60 1.65 1.70



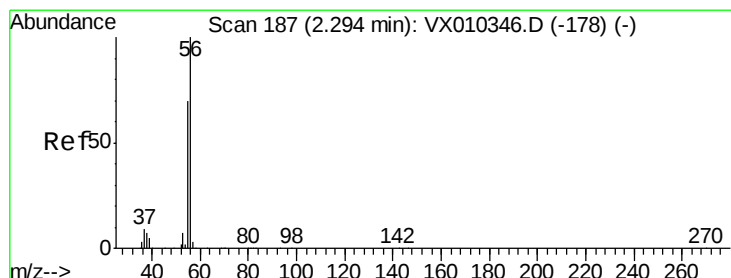
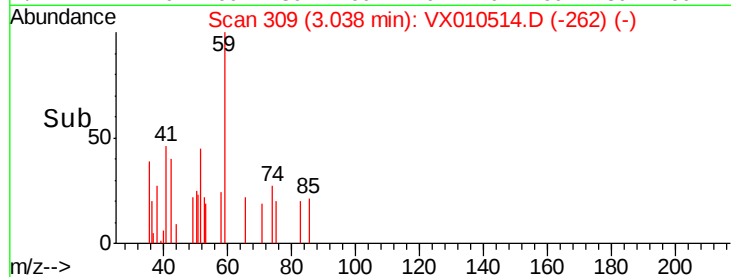
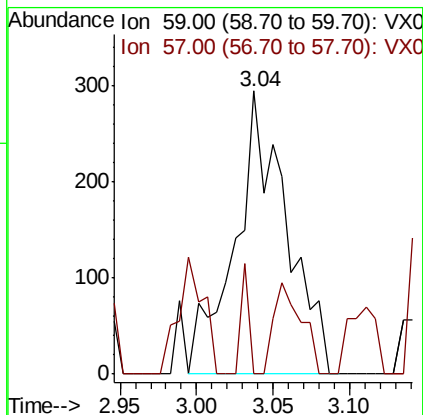
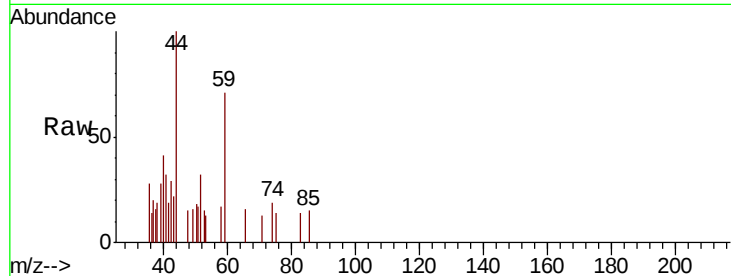


#11

Tert butyl alcohol
Concen: 1.065 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

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

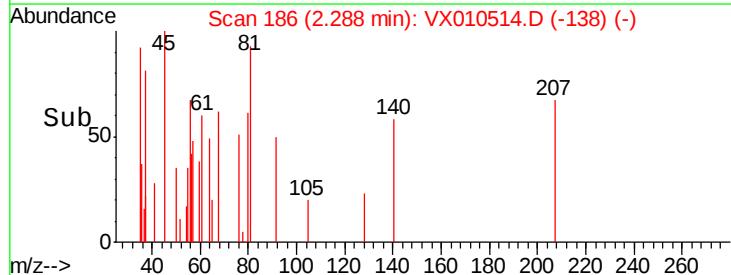
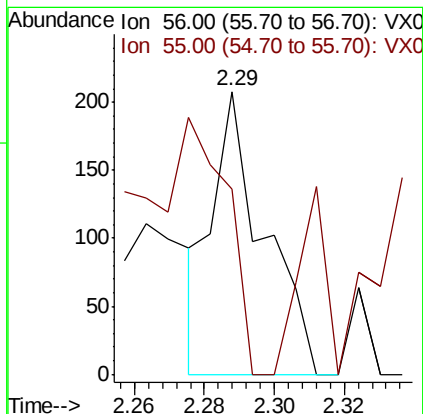
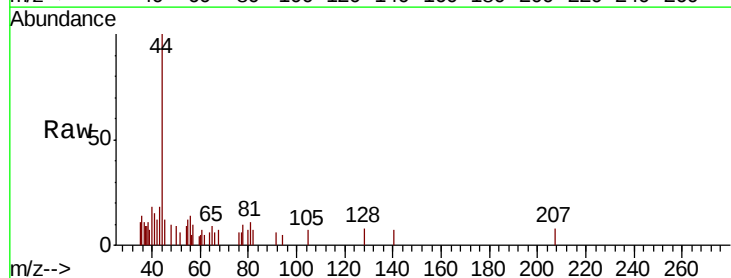
Tot Ion: 59 Resp: 687
Ion Ratio Lower Upper
59 100
57 6.1 7.7 11.5#

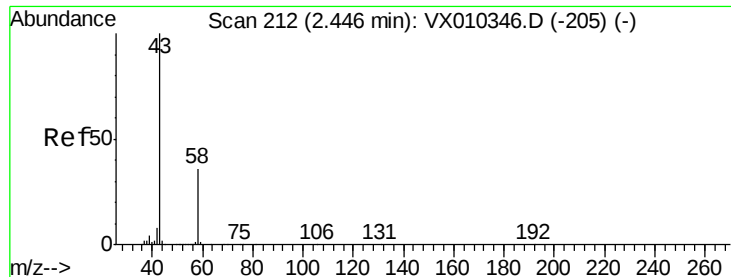


#13

Acrolein
Concen: 0.491 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

Tgt Ion: 56 Resp: 210
Ion Ratio Lower Upper
56 100
55 150.0 56.9 85.3#





#16

Acetone

Concen: 3.998 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Instrument :

MSVOA_X

ClientSampleId :

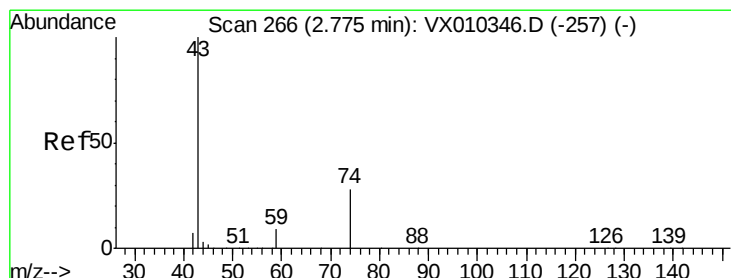
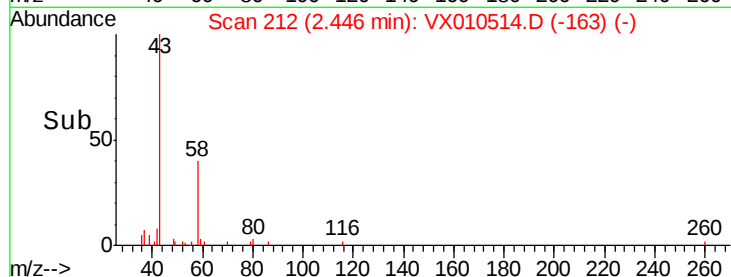
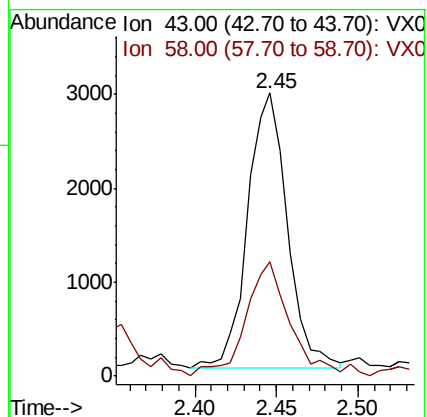
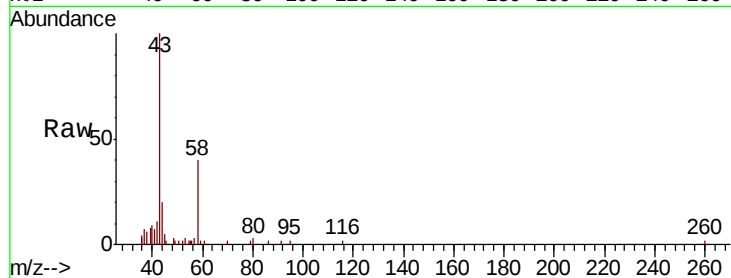
CL-02-062619-A

Tot Ion: 43 Resp: 4939

Ion Ratio Lower Upper

43 100

58 41.7 28.9 43.3



#18

Methyl Acetate

Concen: 1.192 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010514.D

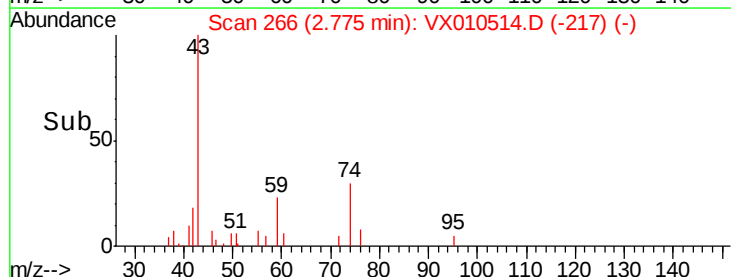
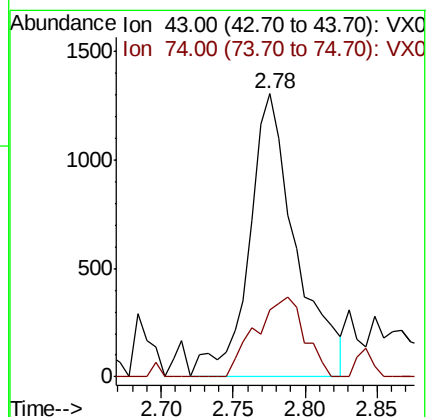
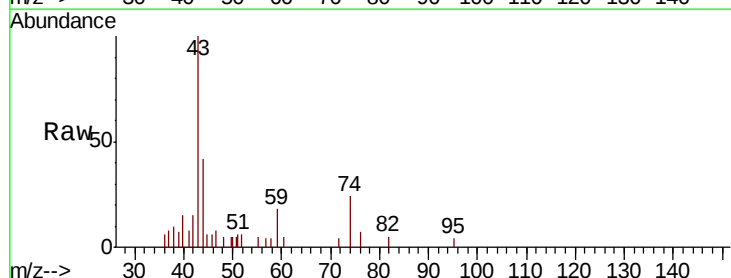
Acq: 28 Jun 2019 03:00

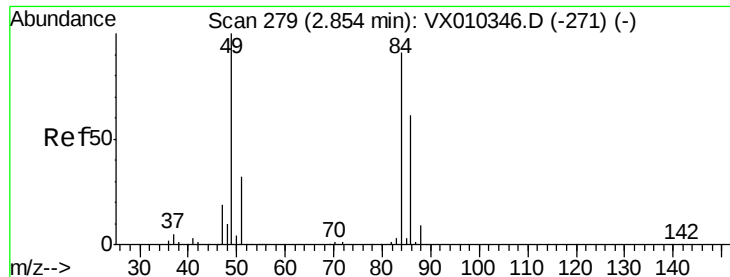
Tgt Ion: 43 Resp: 2936

Ion Ratio Lower Upper

43 100

74 29.7 21.3 31.9

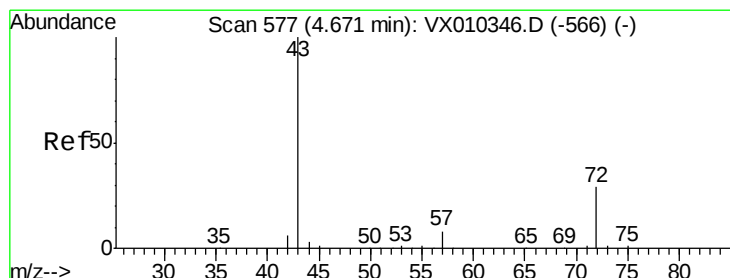
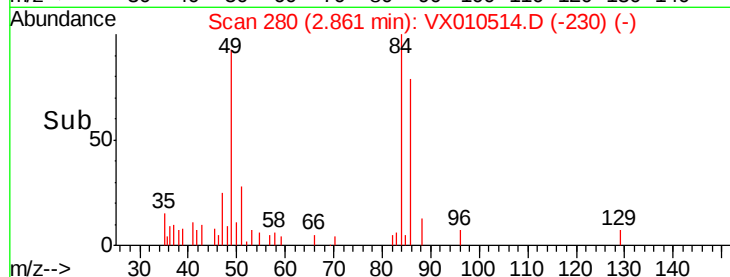
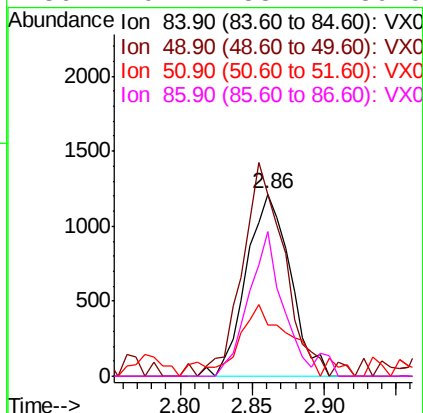
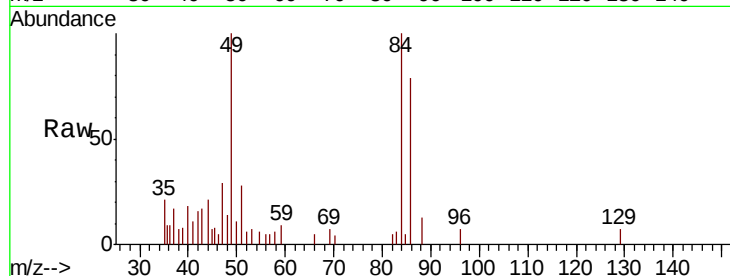




#20
Methvlene Chloride
Concen: 1.012 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

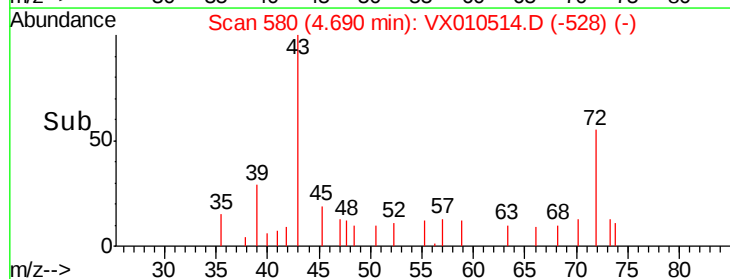
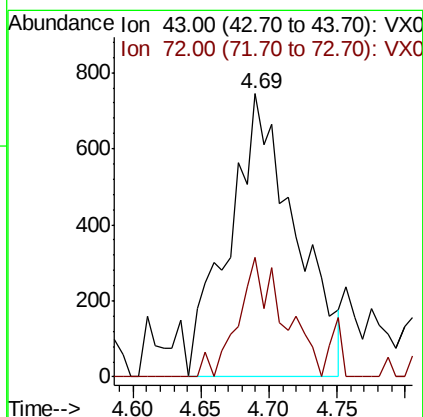
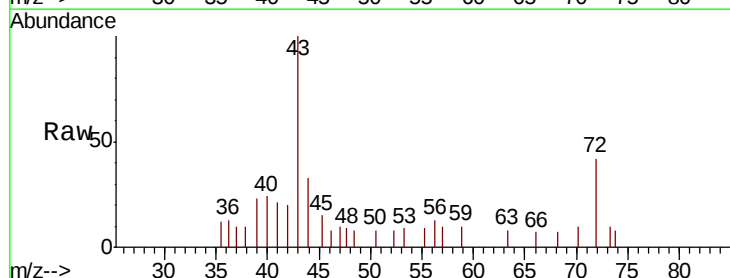
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-A

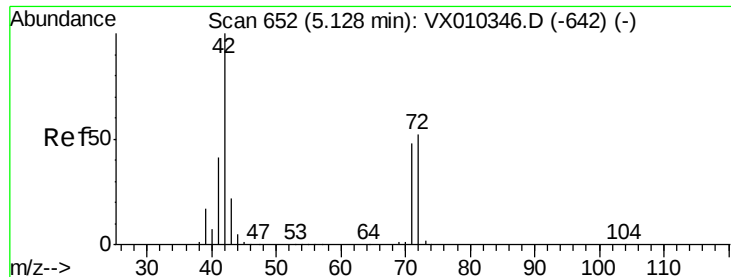
Tot Ion:	84	Resp:	2573
Ion	Ratio	Lower	Upper
84	100		
49	92.6	87.5	131.3
51	22.7	27.7	41.5#
86	79.2	53.4	80.0



#25
2-Butanone
Concen: 1.400 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

Tgt Ion:	43	Resp:	2537
Ion	Ratio	Lower	Upper
43	100		
72	42.2	23.3	34.9#





#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Instrument :

MSVOA_X

ClientSampleId :

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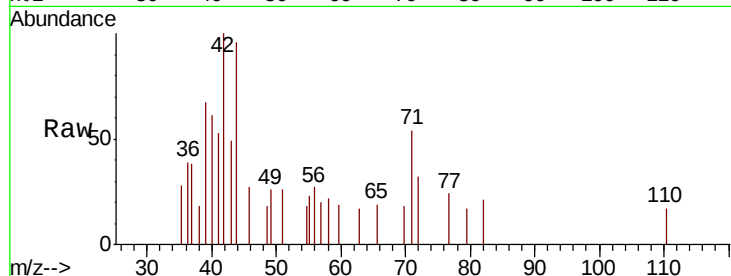
Tot Ion: 42 Resp: 268

Ion Ratio Lower Upper

42 100

72 95.9 40.6 60.8#

71 221.3 37.8 56.8#

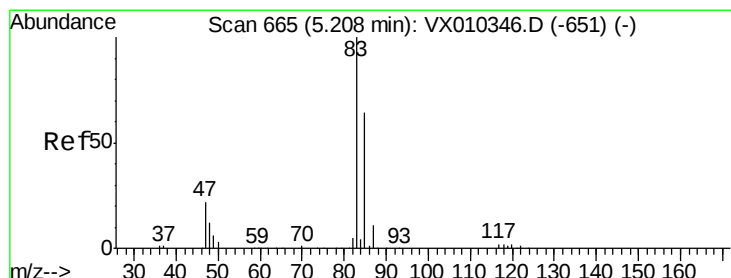
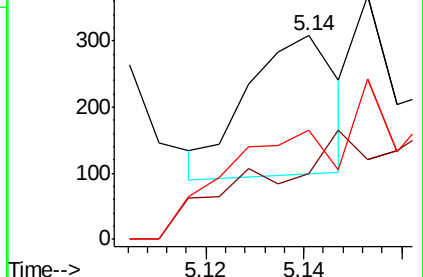
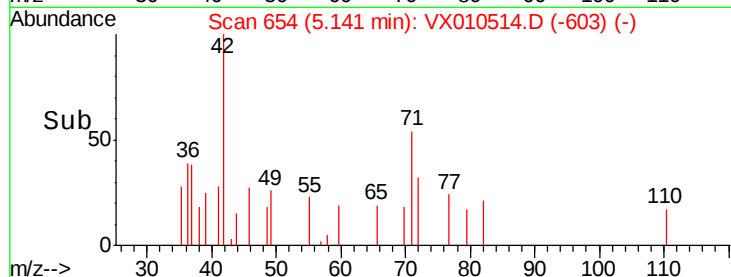


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time-->



#30

Chloroform

Concen: 0.999 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX010514.D

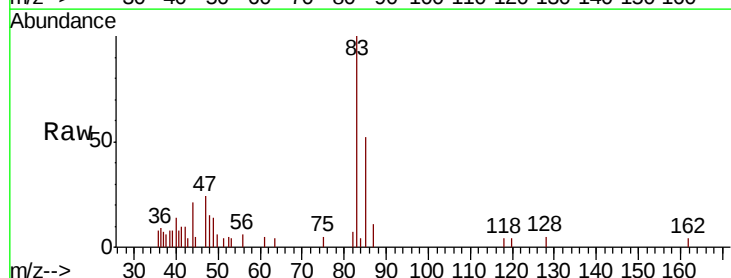
Acq: 28 Jun 2019 03:00

Tgt Ion: 83 Resp: 4204

Ion Ratio Lower Upper

83 100

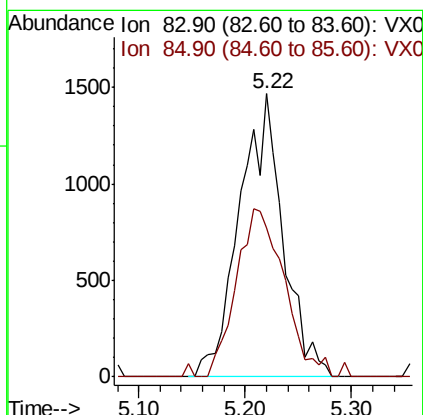
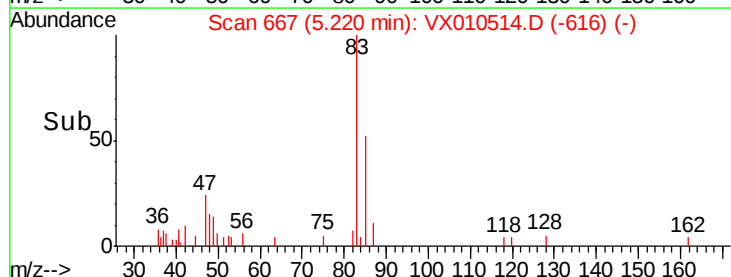
85 52.4 50.9 76.3

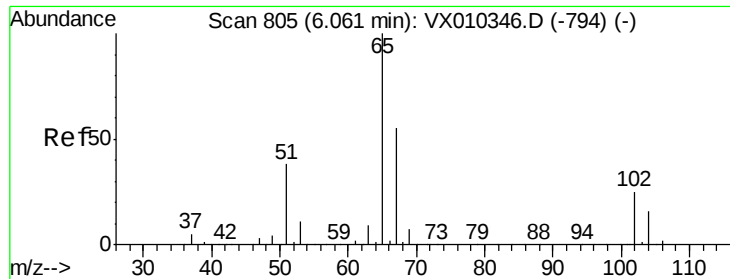


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time-->

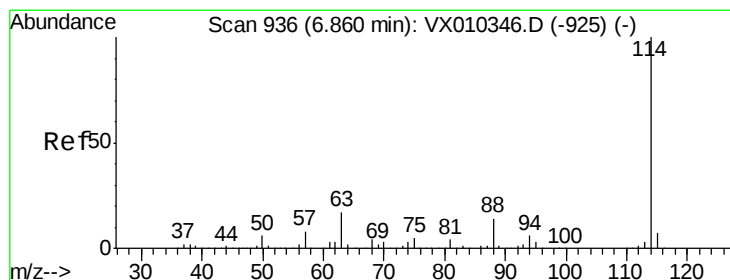
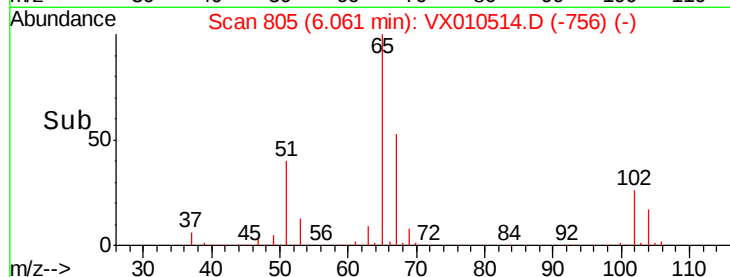
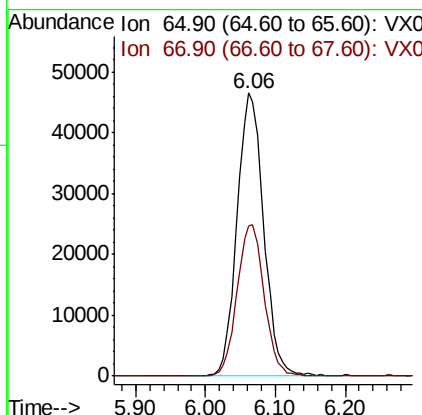
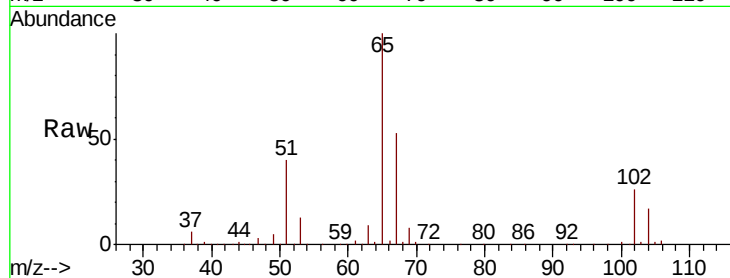




#33
 1,2-Dichloroethane-d4
 Concen: 49.945 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

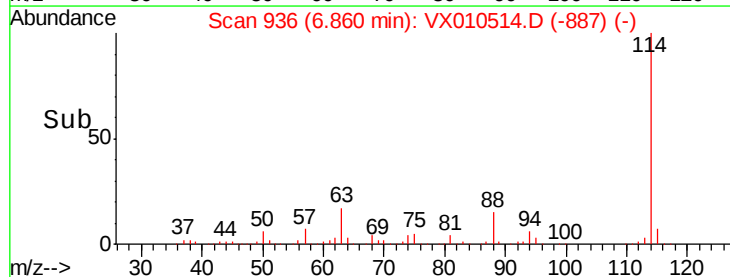
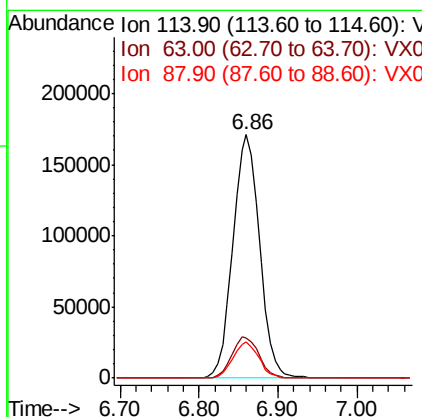
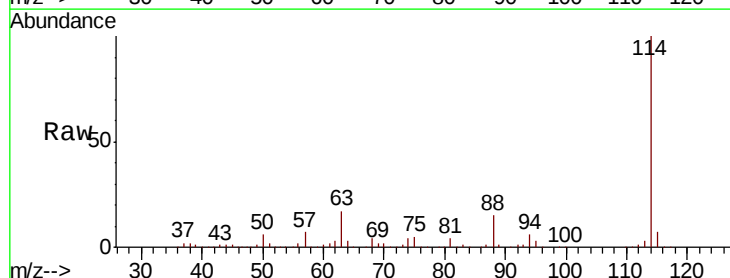
Instrument :
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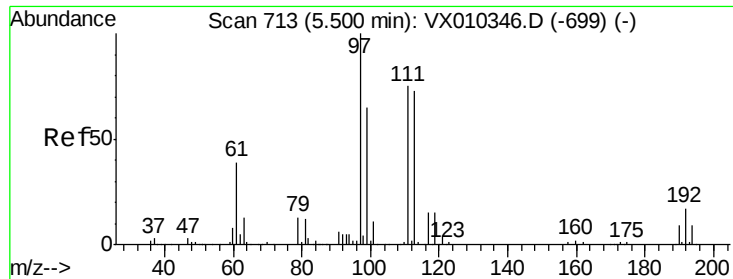
Tot Ion: 65 Resp: 123129
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

Tgt Ion: 114 Resp: 401840
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 33.8
 88 15.0 0.0 27.6

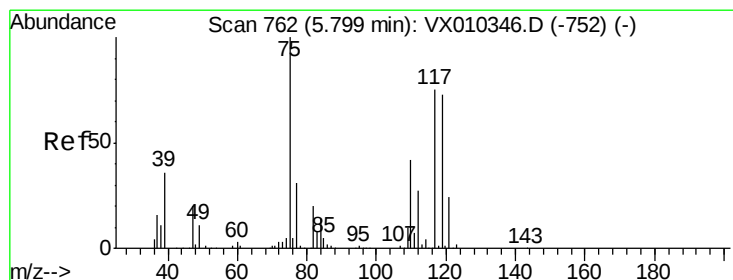
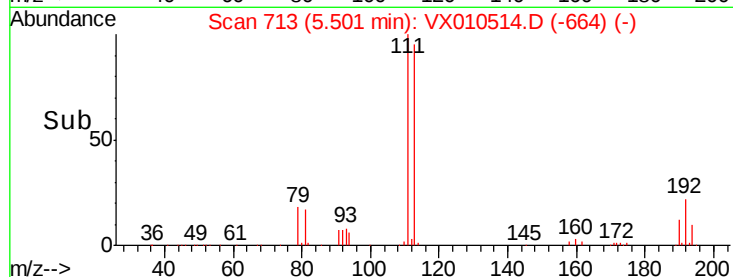
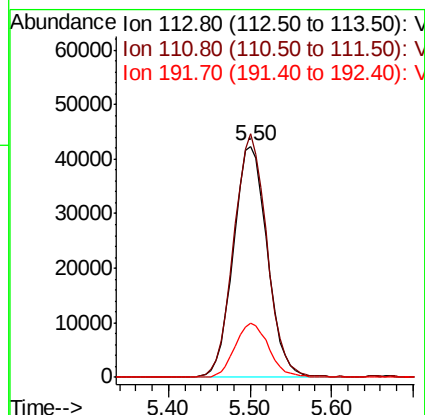
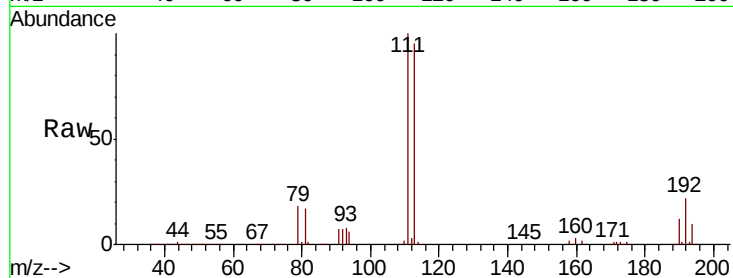




#35
 Dibromofluoromethane
 Concen: 49.479 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

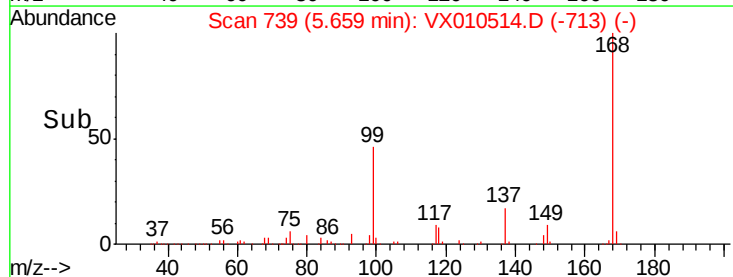
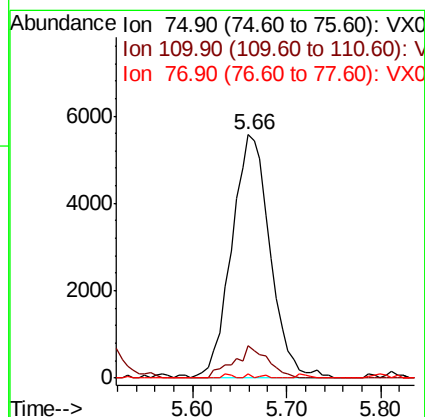
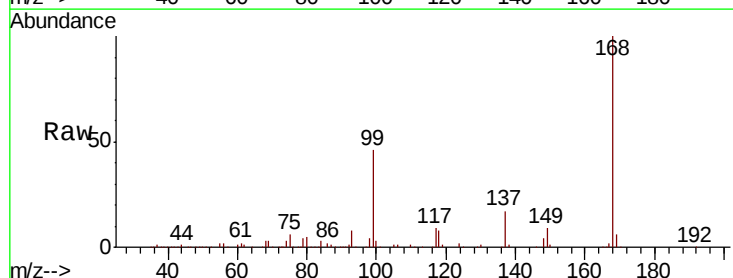
Instrument :
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 CL-02-062619-A

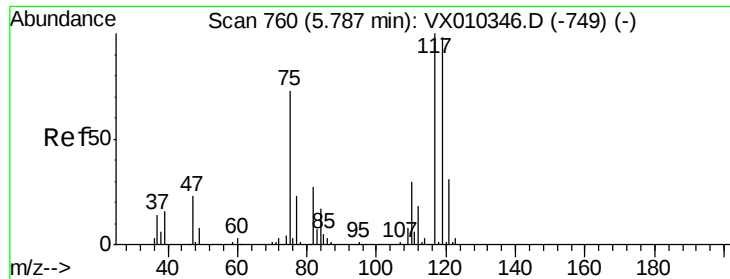
Tot Ion:113 Resp: 121649
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.2 121.8
 192 23.5 18.6 27.8



#36
 1,1-Dichloropropene
 Concen: 4.944 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

Tgt Ion: 75 Resp: 15788
 Ion Ratio Lower Upper
 75 100
 110 11.8 20.8 62.2#
 77 0.2 25.4 38.0#

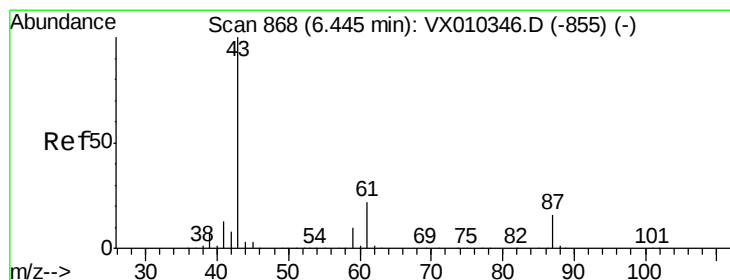
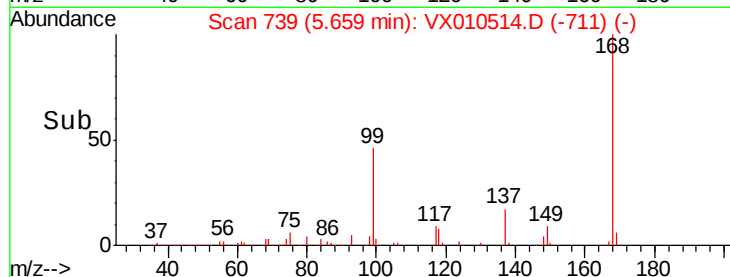
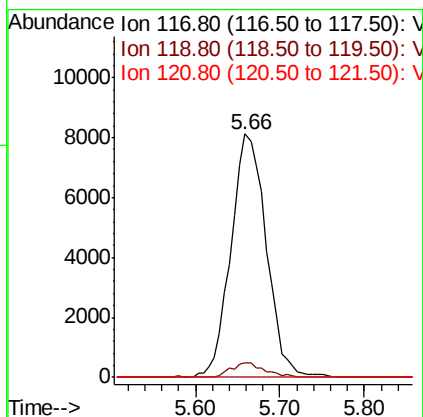
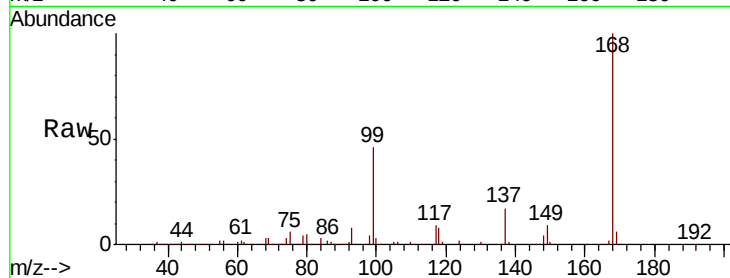




#38
Carbon Tetrachloride
Concen: 6.666 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

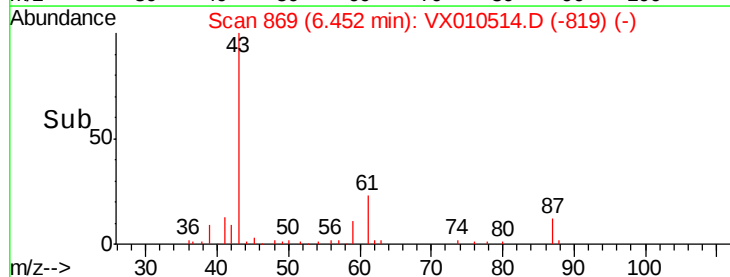
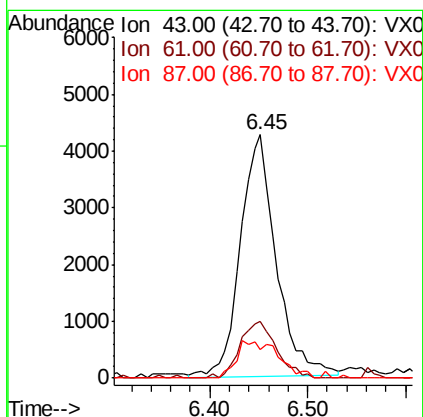
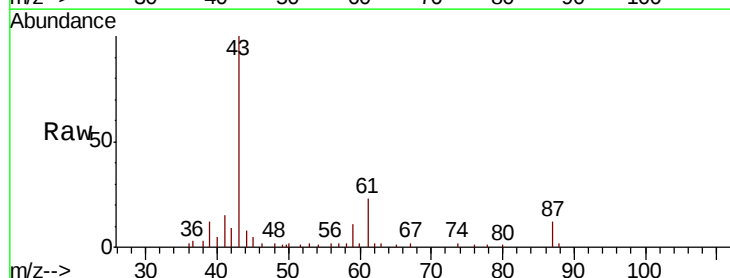
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-A

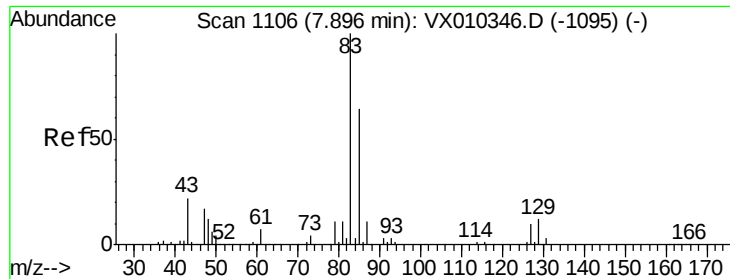
Tot Ion:117 Resp: 23051
Ion Ratio Lower Upper
117 100
119 6.0 78.2 117.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 1.986 ug/l
RT: 6.45 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

Tgt Ion: 43 Resp: 10794
Ion Ratio Lower Upper
43 100
61 23.7 17.8 26.6
87 18.1 13.0 19.4





#47

Bromodichloromethane

Concen: 0.259 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-062619-A

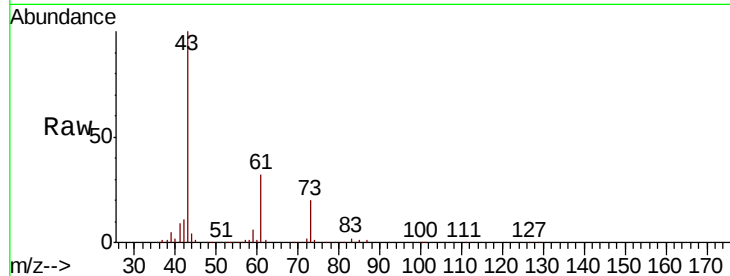
Tot Ion: 83 Resp: 857

Ion Ratio Lower Upper

83 100

85 41.0 51.5 77.3#

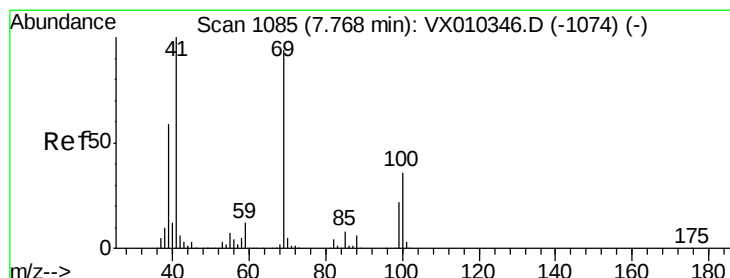
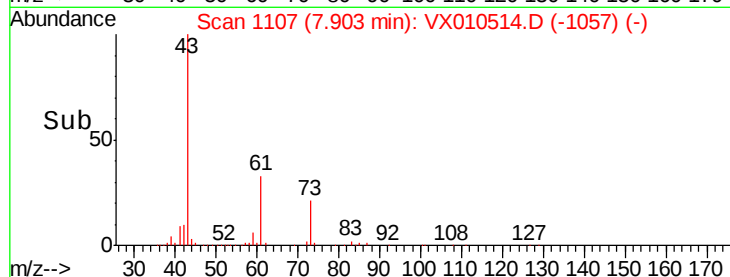
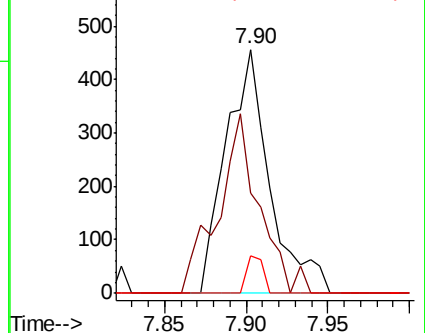
127 15.1 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.446 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

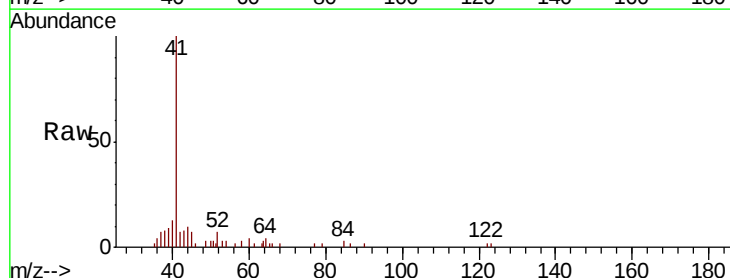
Tgt Ion: 41 Resp: 6180

Ion Ratio Lower Upper

41 100

69 0.0 76.1 114.1#

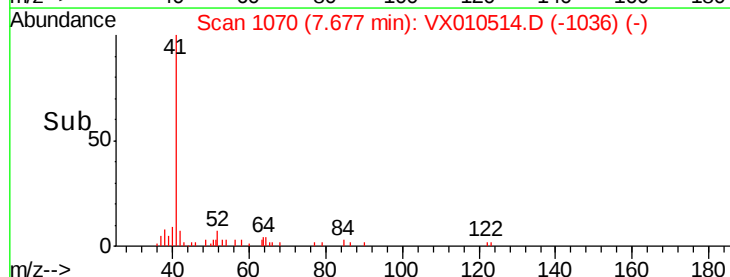
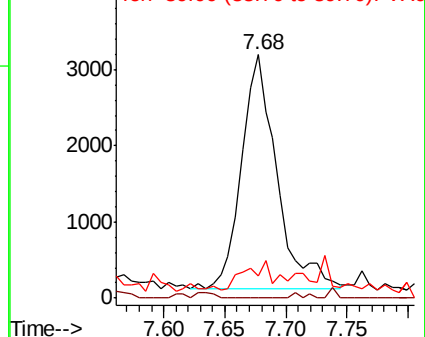
39 0.0 47.6 71.4#

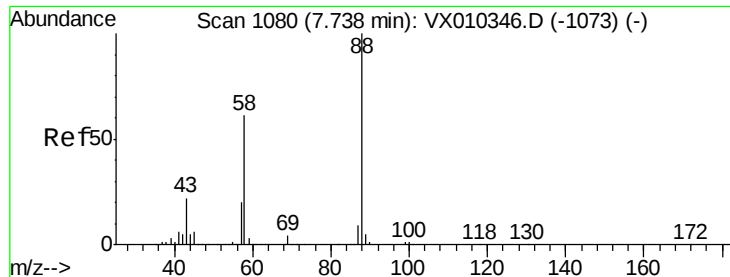


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

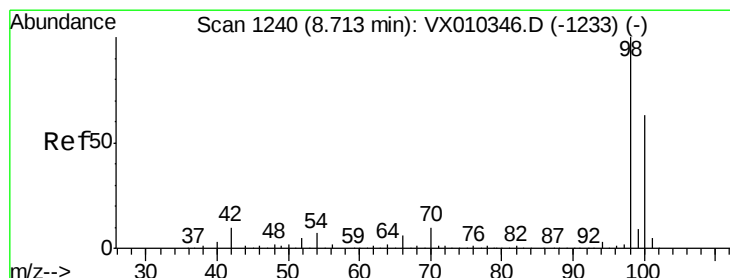
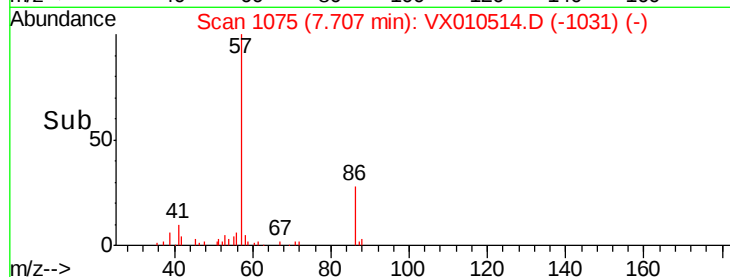
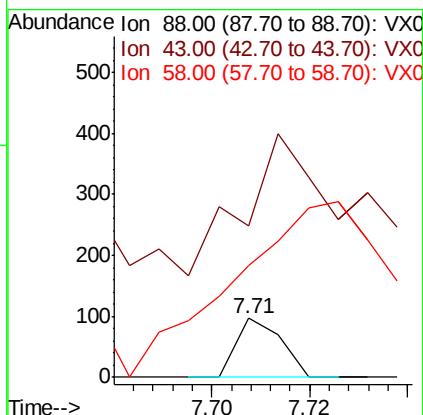
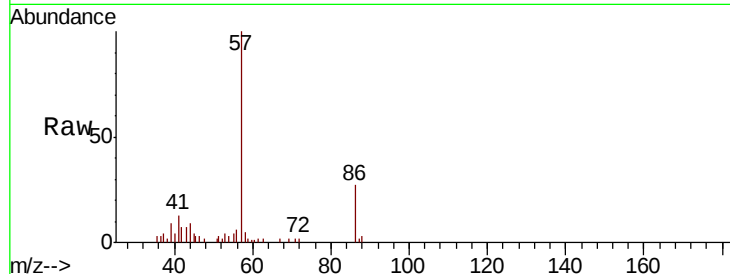




#49
1,4-Dioxane
Concen: 0.838 ug/l
RT: 7.71 min Scan# 1075
Delta R.T. -0.03 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

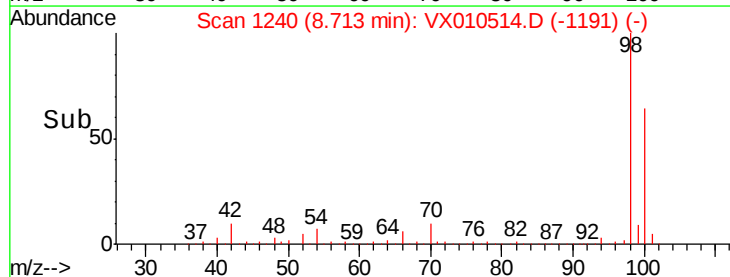
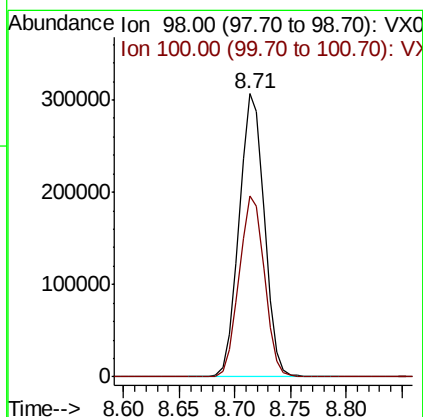
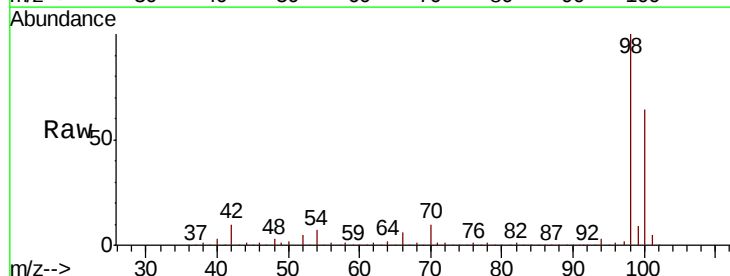
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-A

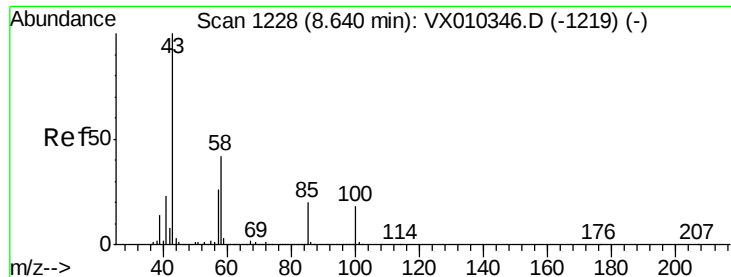
Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 1050.8 49.5 74.3#



#50
Toluene-d8
Concen: 51.116 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

Tgt Ion: 98 Resp: 480801
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4

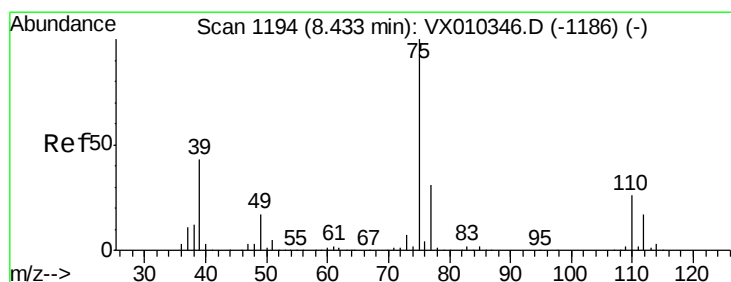
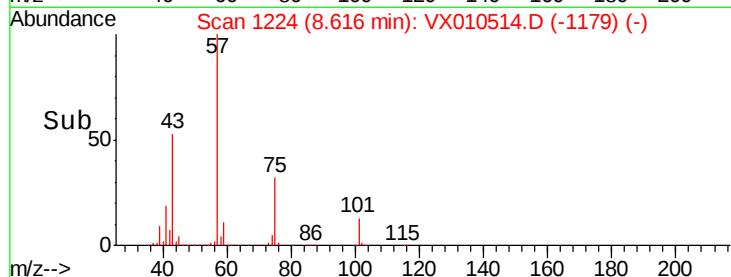
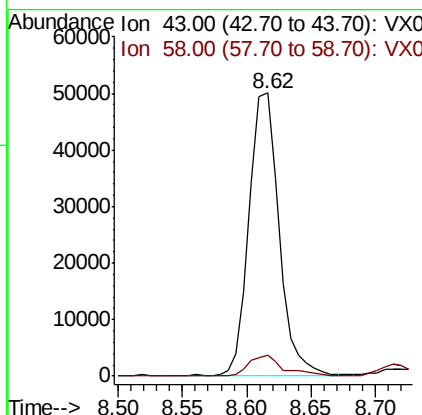
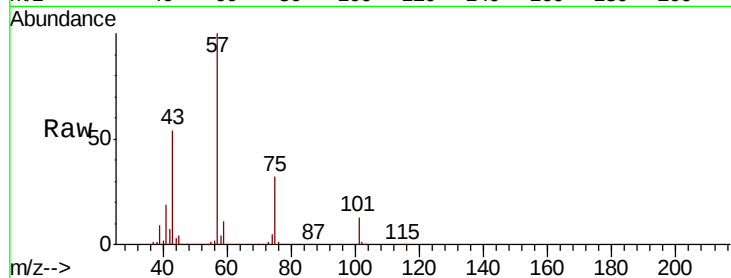




#51
 4-Methyl-2-Pentanone
 Concen: 23.064 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.02 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

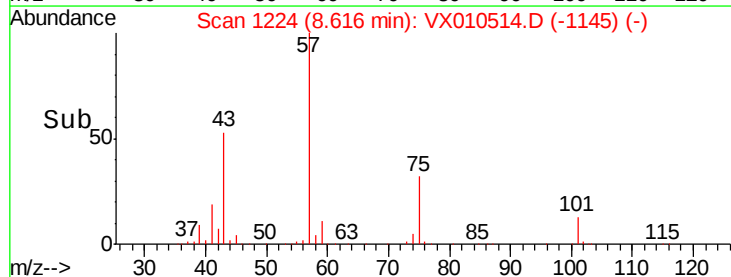
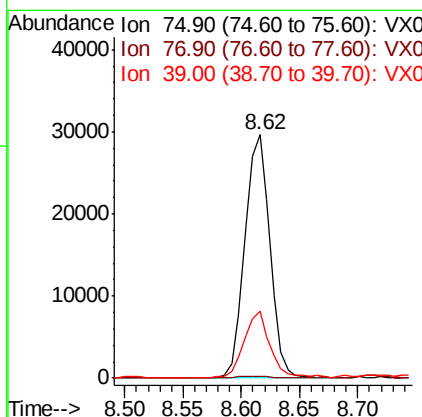
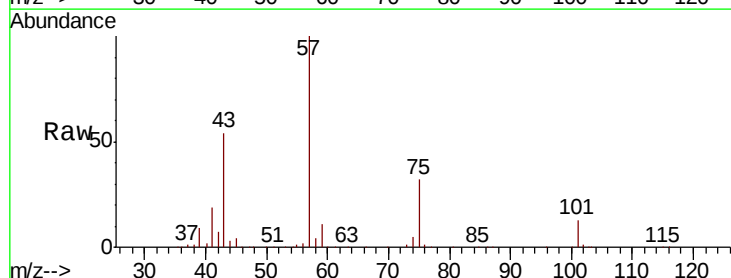
Instrument :
 MSVOA_X
 ClientSampleID :
 CL-02-062619-A

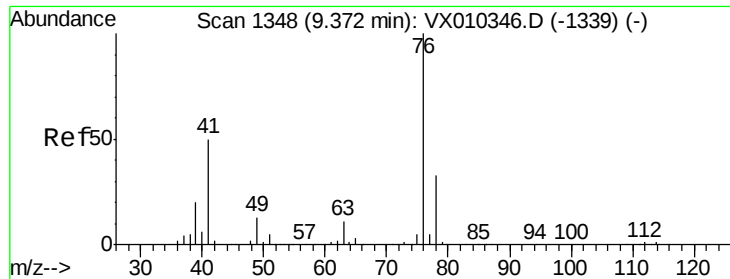
Tot Ion: 43 Resp: 80174
 Ion Ratio Lower Upper
 43 100
 58 8.6 33.5 50.3#



#54
 cis-1,3-Dichloropropene
 Concen: 11.128 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

Tgt Ion: 75 Resp: 44784
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 27.1 34.5 51.7#

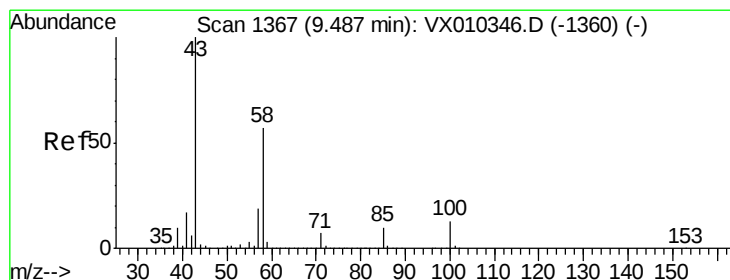
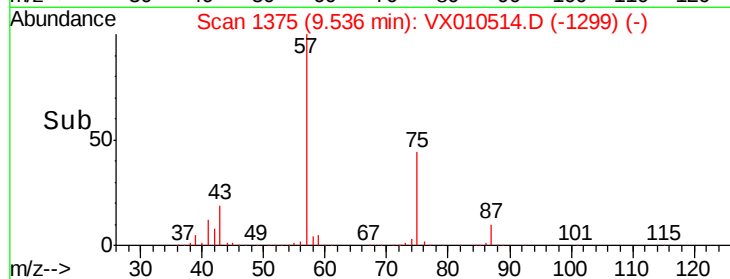
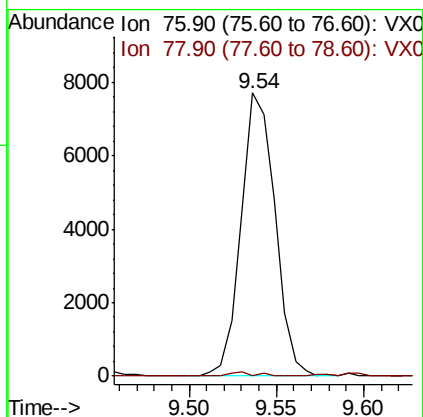
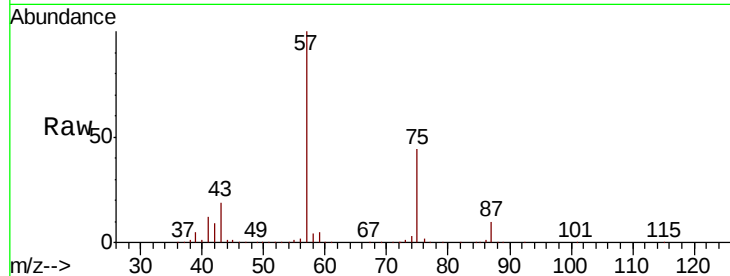




#57
 1,3-Dichloropropane
 Concen: 2.484 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.16 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

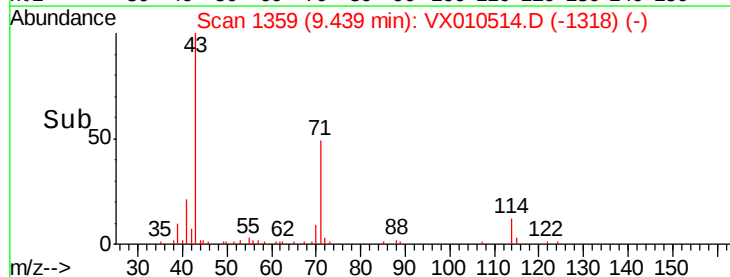
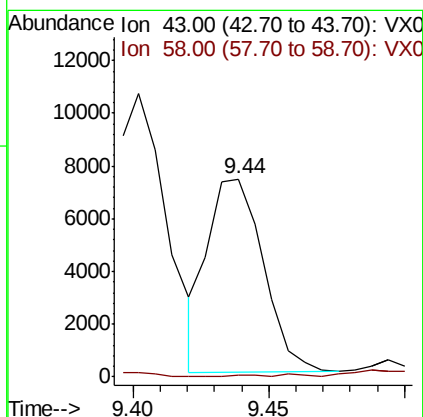
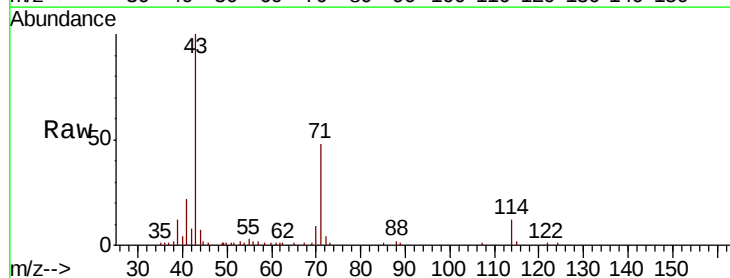
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-062619-A

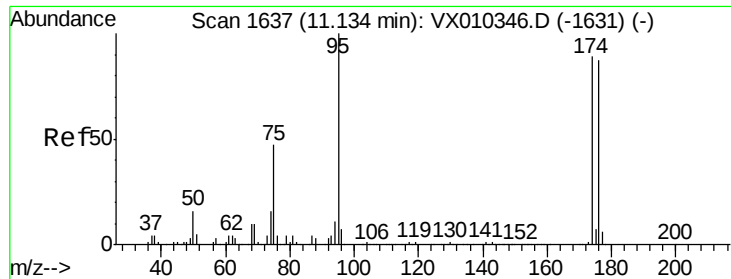
Tot Ion: 76 Resp: 10419
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 3.815 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX010514.D
 Acq: 28 Jun 2019 03:00

Tgt Ion: 43 Resp: 10437
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.0 87.1#

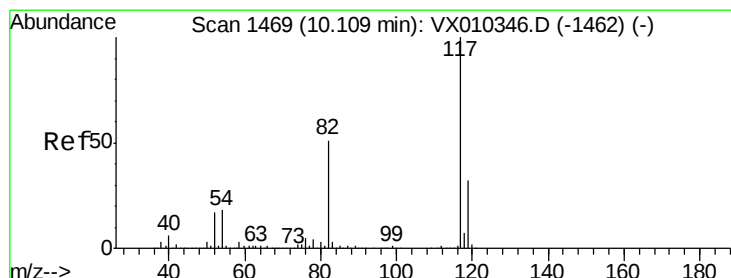
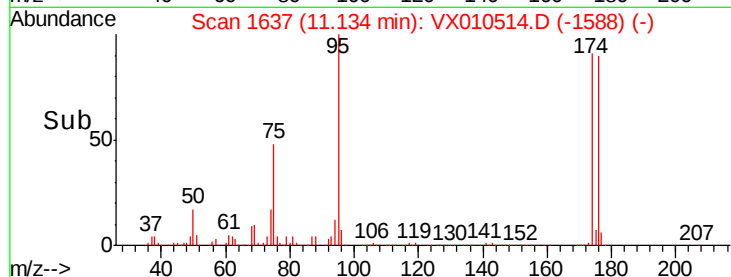
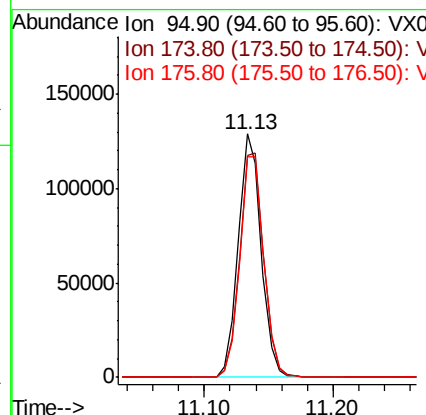
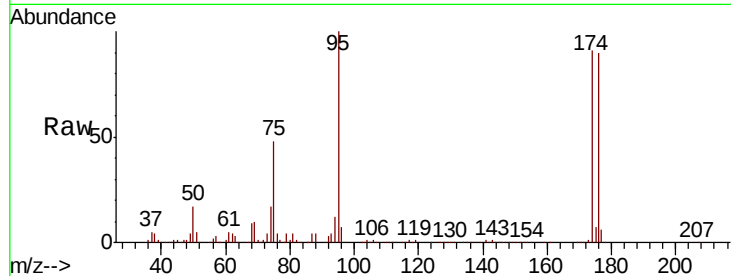




#62
4-Bromofluorobenzene
Concen: 47.103 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

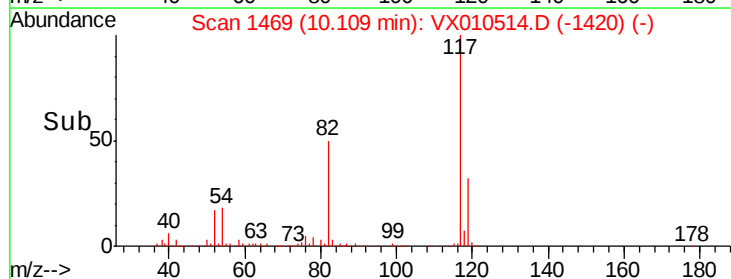
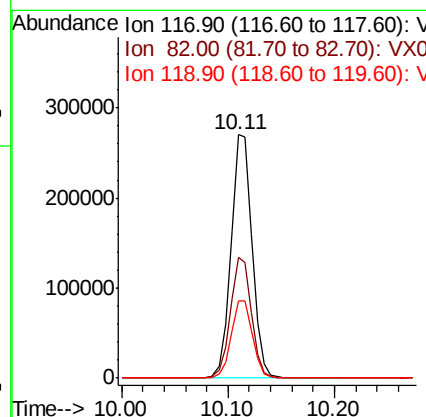
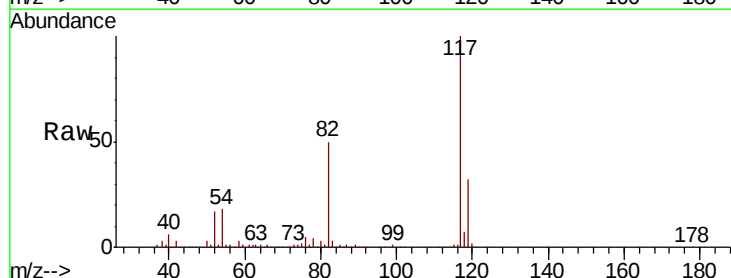
Instrument :
MSVOA_X
ClientSampleId :
CL-02-062619-A

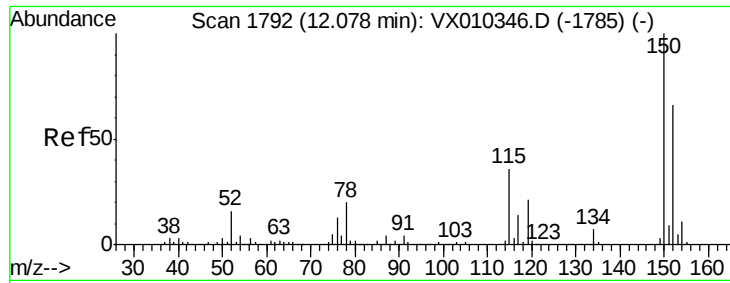
Tot Ion	Ratio	Lower	Upper
95	100		
174	96.4	0.0	187.6
176	95.1	0.0	184.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.6	41.2	61.8
119	31.9	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Instrument :

MSVOA_X

ClientSampleId :

CL-02-062619-A

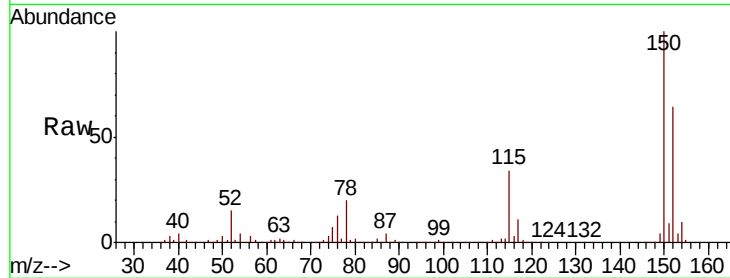
Tot Ion:152 Resp: 171197

Ion Ratio Lower Upper

152 100

115 54.3 38.6 115.7

150 158.8 0.0 347.4

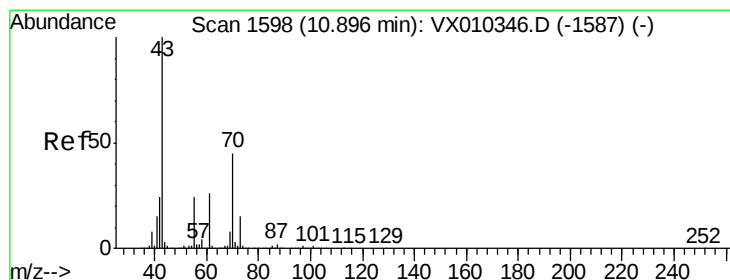
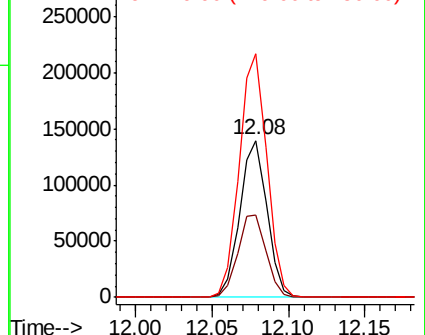
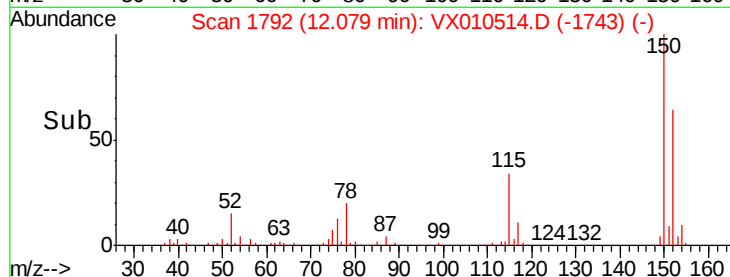


Abundance

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



#74

N-ethyl acetate

Concen: 2.711 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Tgt Ion: 43 Resp: 11892

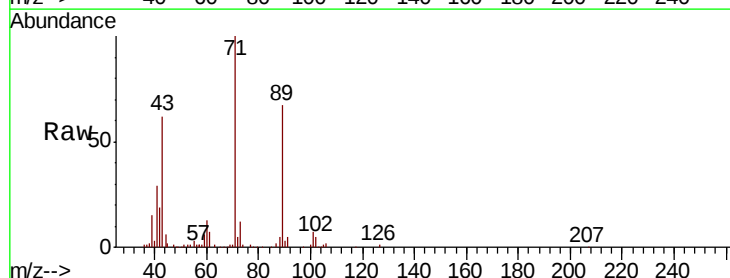
Ion Ratio Lower Upper

43 100

70 4.3 36.6 54.8#

55 8.3 18.7 28.1#

61 12.8 20.6 31.0#



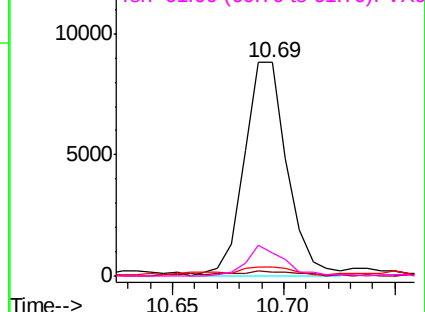
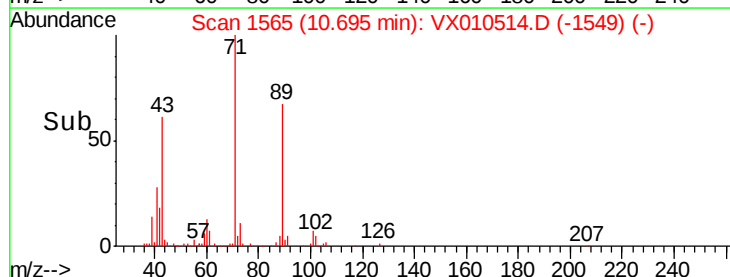
Abundance

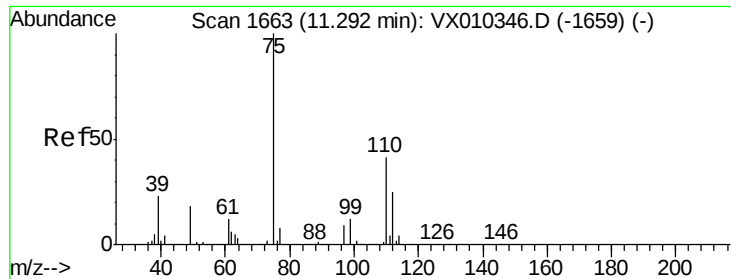
Ion 43.00 (42.70 to 43.70): VX0

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: 24.481 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

Instrument :

MSVOA_X

ClientSampleId :

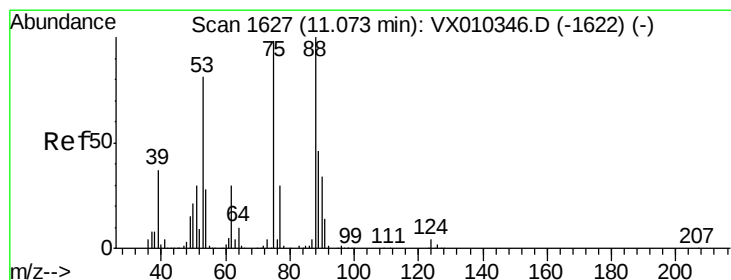
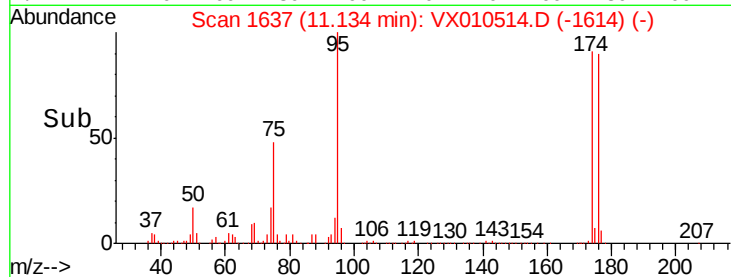
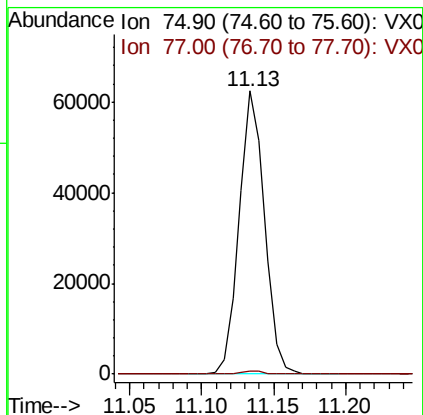
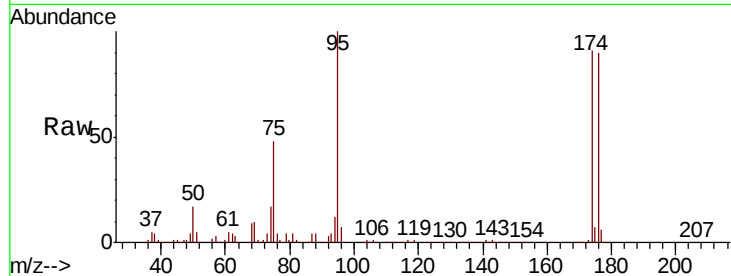
CL-02-062619-A

Tot Ion: 75 Resp: 76371

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.111 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010514.D

Acq: 28 Jun 2019 03:00

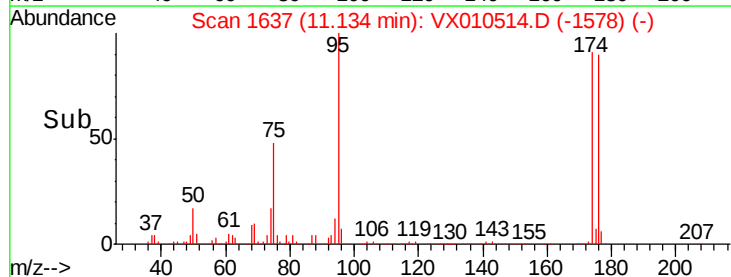
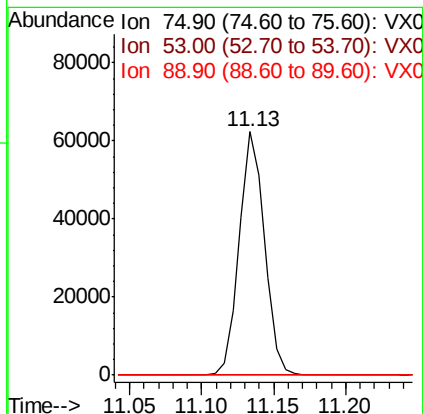
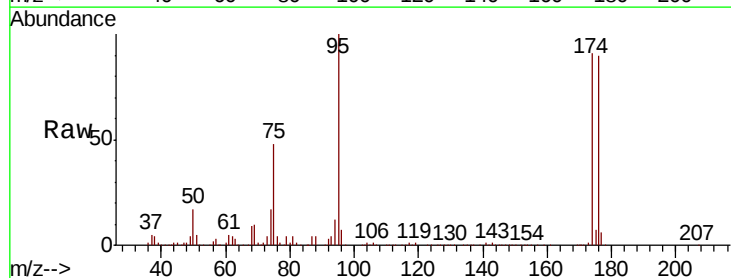
Tgt Ion: 75 Resp: 76371

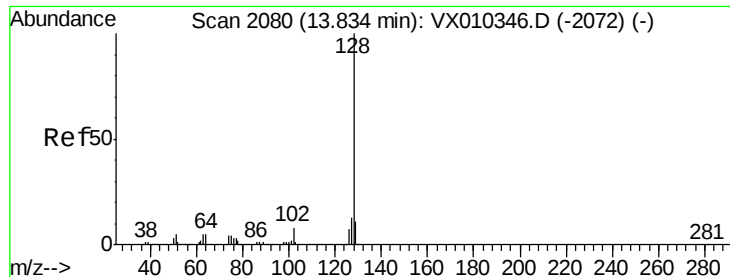
Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#





#95
Naphthalene
Concen: 0.342 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010514.D
Acq: 28 Jun 2019 03:00

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.4
129	13.8	8.9	13.3

