

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004544.D
 Acq On : 14 Sep 2018 17:07
 Operator : JC/MD
 Sample : J4897-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WASTE-CLASS-DRUMS

Quant Time: Sep 15 04:42:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	277024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	391981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	367591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213749	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	178876	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
35) Dibromofluoromethane	5.51	113	162694	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
50) Toluene-d8	8.71	98	573654	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	11.14	95	202808	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

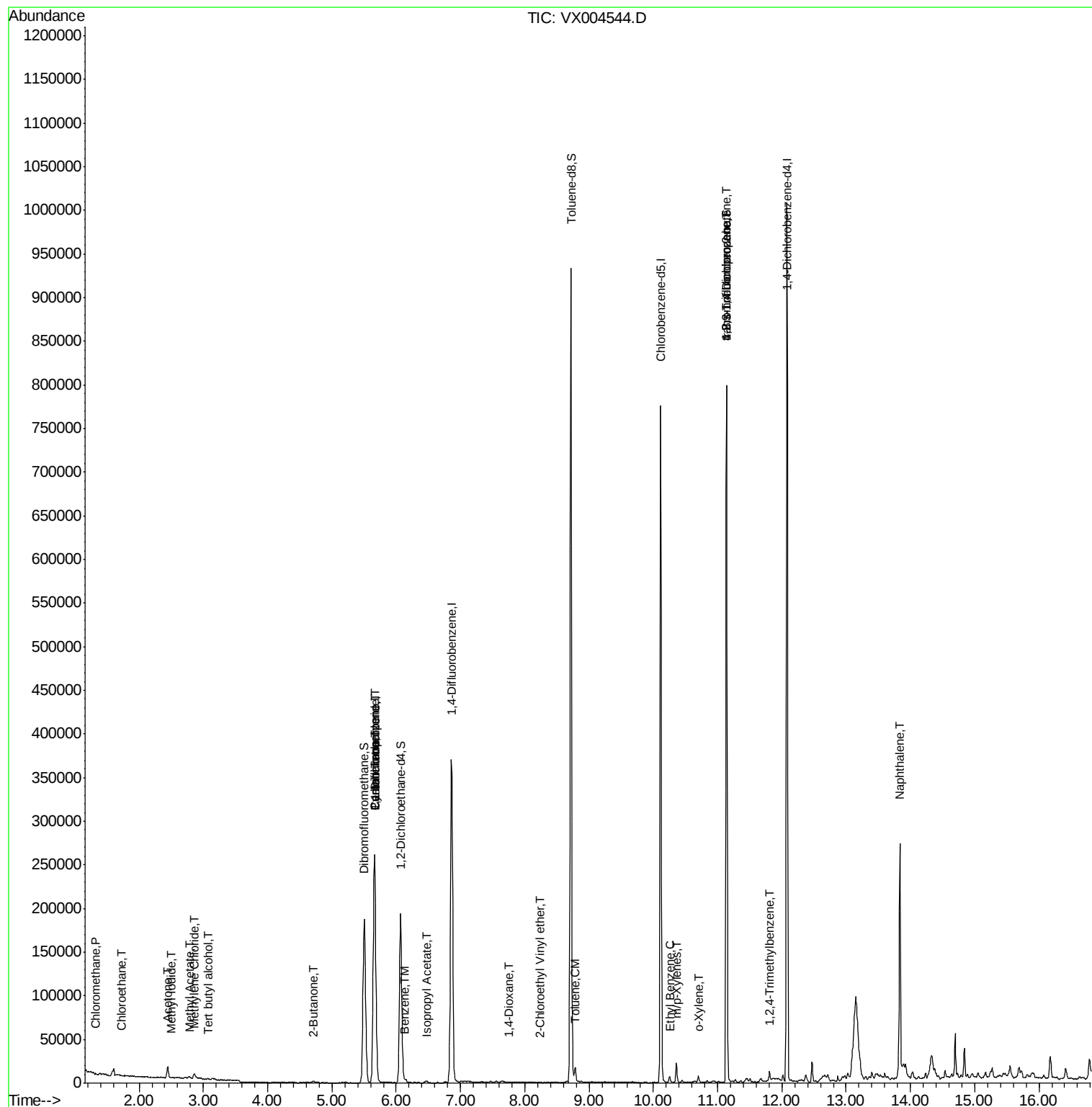
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1099	0.31	ug/l	# 84
5) Bromomethane	1.65	94	387	Below Cal		94
6) Chloroethane	1.72	64	575	0.24	ug/l	# 54
10) Methyl Iodide	2.51	142	387	4.35	ug/l	# 76
11) Tert butyl alcohol	3.07	59	297	0.35	ug/l	# 26
16) Acetone	2.45	43	12534	7.19	ug/l	97
18) Methyl Acetate	2.78	43	1678	0.34	ug/l	98
20) Methylene Chloride	2.85	84	2773	0.78	ug/l	# 82
25) 2-Butanone	4.71	43	2532	0.91	ug/l	97
31) Cyclohexane	5.66	56	4237	0.82	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18411	3.87	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	24460	5.26	ug/l	# 15
40) Benzene	6.14	78	3843	0.27	ug/l	94
43) Isopropyl Acetate	6.47	43	2592	0.36	ug/l	# 82
49) 1,4-Dioxane	7.76	88	170	2.02	ug/l	# 5
52) Toluene	8.79	92	5100	0.61	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.25	63	20	7.28	ug/l	# 45
67) Ethyl Benzene	10.25	91	4292	0.29	ug/l	97
68) m/p-Xylenes	10.36	106	5032	0.88	ug/l	99
69) o-Xylene	10.70	106	1518	0.28	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	93201	21.67	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	93201	69.08	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	4688	0.39	ug/l	91
95) Naphthalene	13.83	128	182123	12.48	ug/l	100

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004544.D
Acq On : 14 Sep 2018 17:07
Operator : JC/MD
Sample : J4897-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

Quant Time: Sep 15 04:42:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

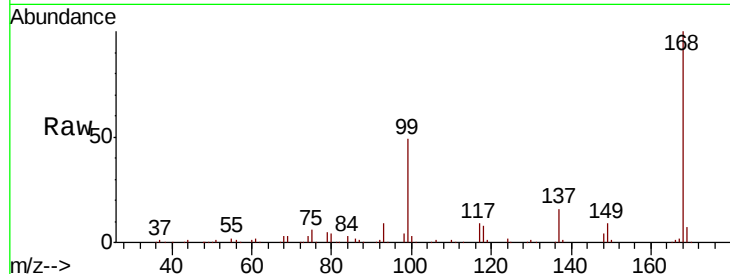
WASTE-CLASS-DRUMS

Tot Ion:168 Resp: 277024

Ion Ratio Lower Upper

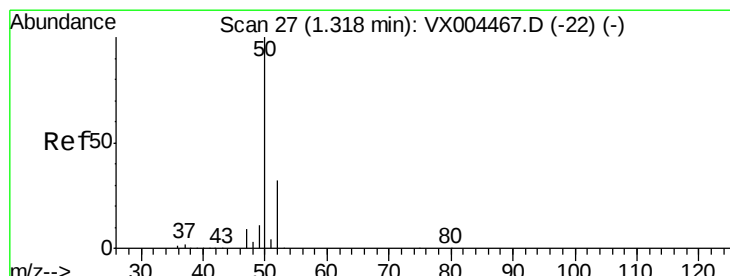
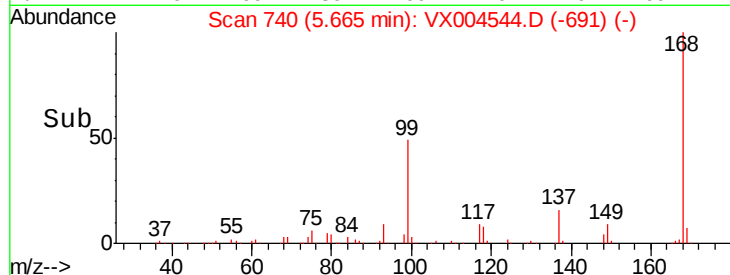
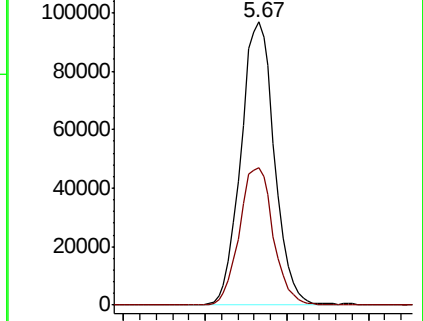
168 100

99 48.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004544.D

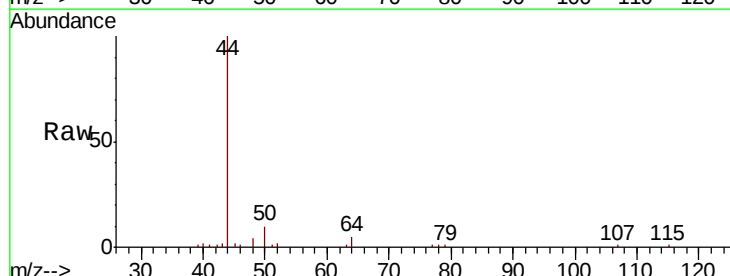
Acq: 14 Sep 2018 17:07

Tgt Ion: 50 Resp: 1099

Ion Ratio Lower Upper

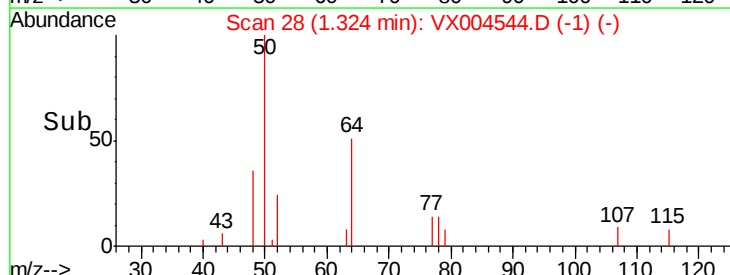
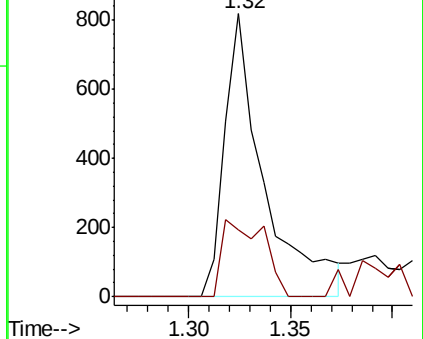
50 100

52 23.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

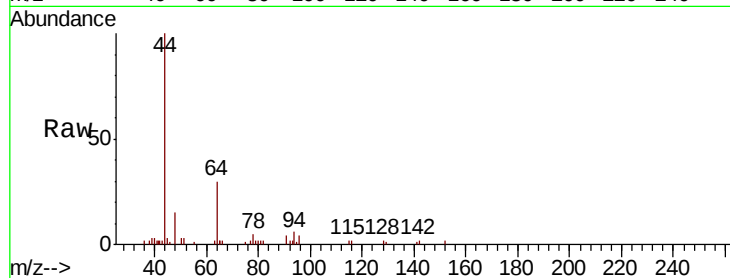
WASTE-CLASS-DRUMS

Tot Ion: 94 Resp: 387

Ion Ratio Lower Upper

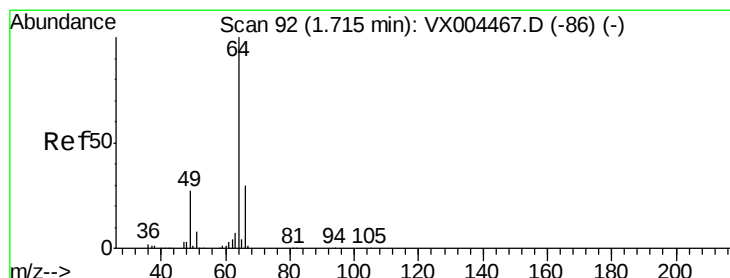
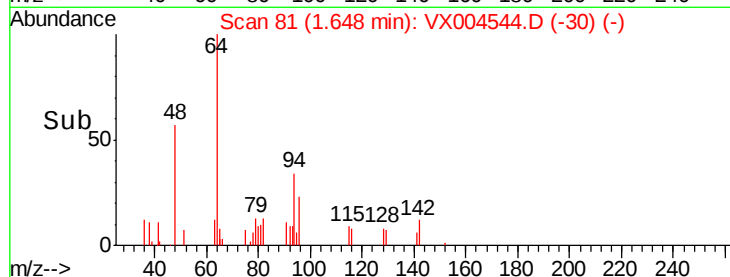
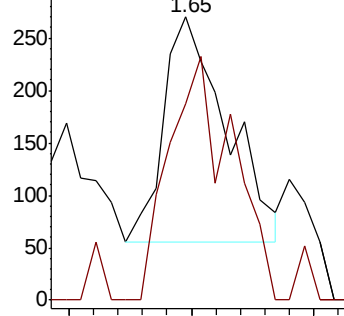
94 100

96 87.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.24 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX004544.D

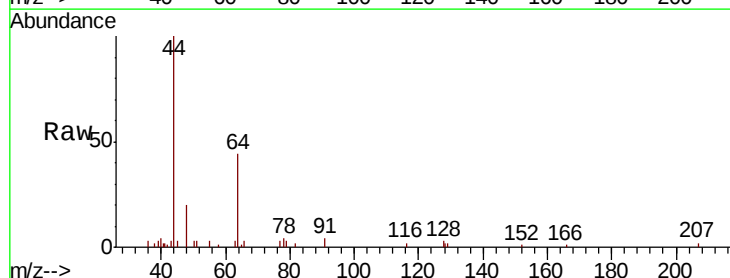
Acq: 14 Sep 2018 17:07

Tgt Ion: 64 Resp: 575

Ion Ratio Lower Upper

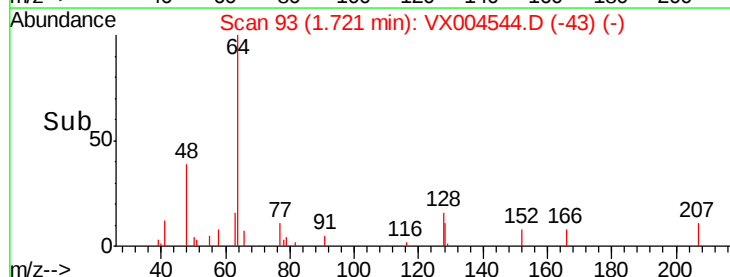
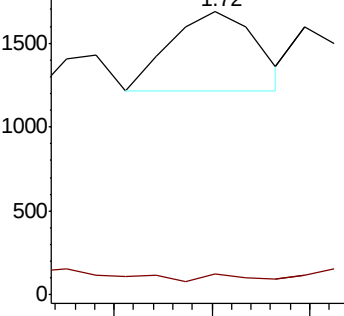
64 100

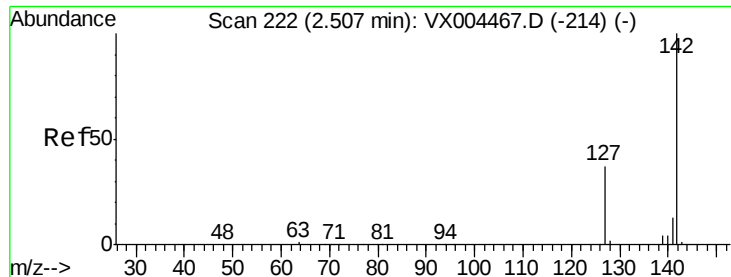
66 5.8 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

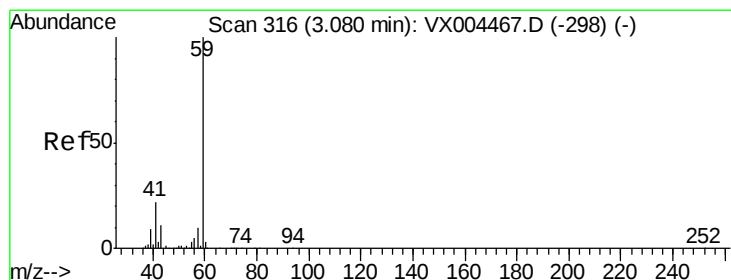
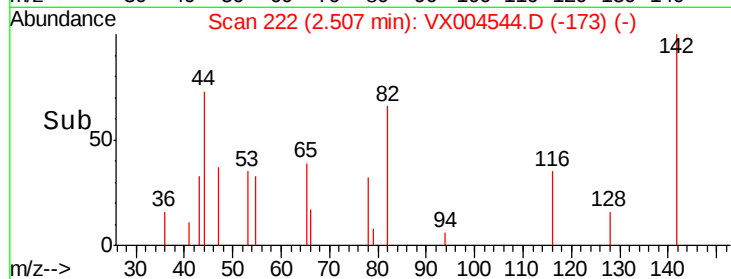
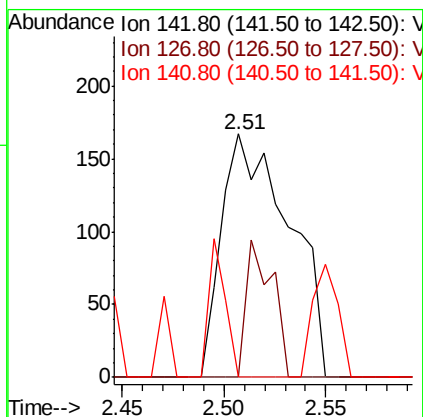
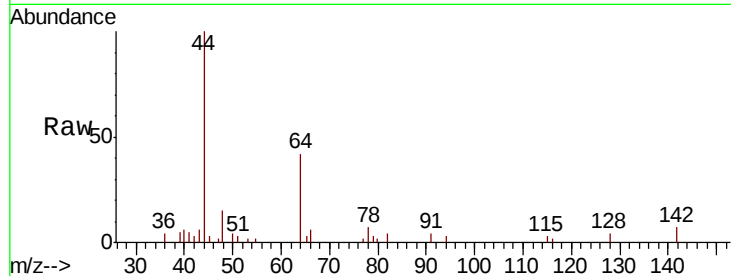




#10
Methvl Iodide
Concen: 4.35 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

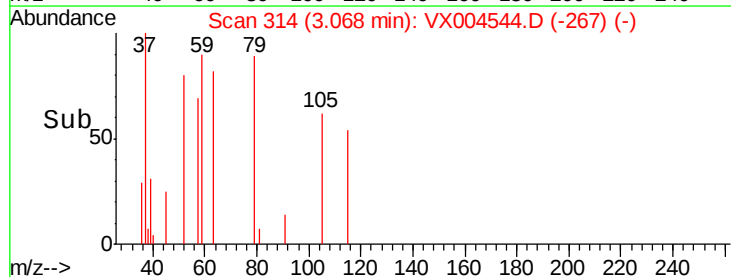
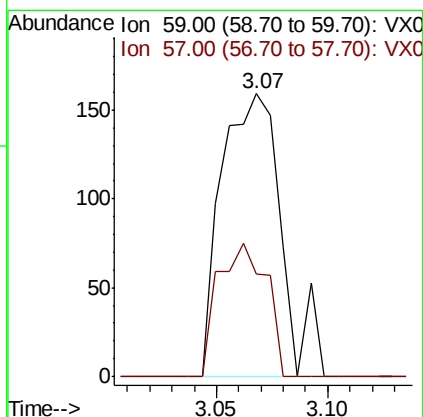
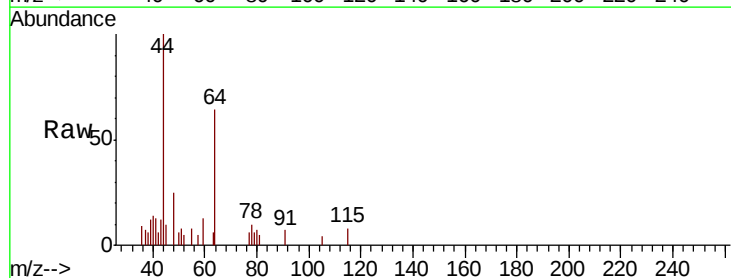
Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

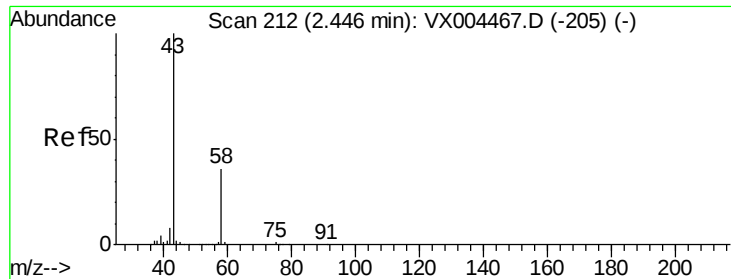
Tot Ion:142 Resp: 387
Ion Ratio Lower Upper
142 100
127 21.7 33.8 50.6#
141 14.0 11.4 17.0



#11
Tert butyl alcohol
Concen: 0.35 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion: 59 Resp: 297
Ion Ratio Lower Upper
59 100
57 38.0 8.2 12.4#

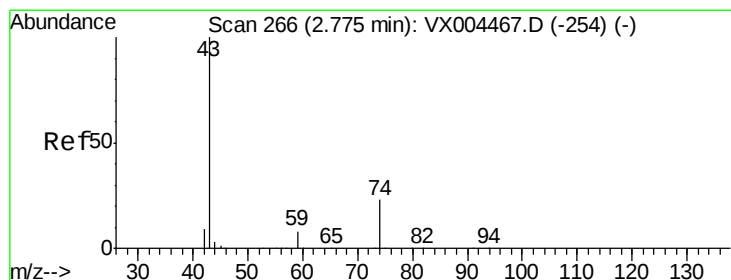
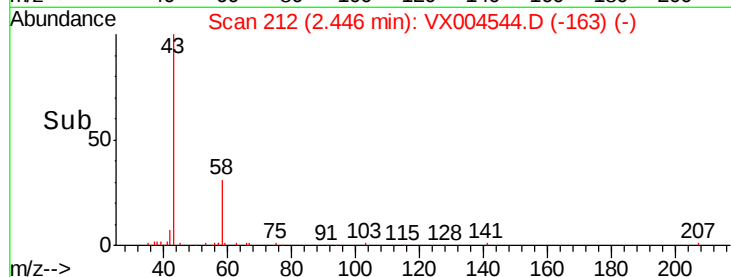
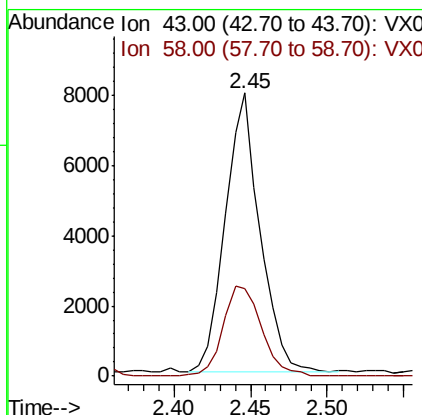
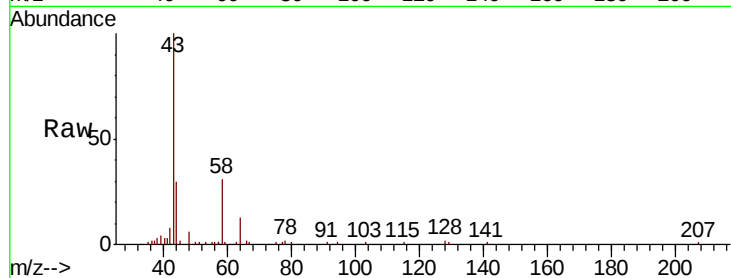




#16
Acetone
Concen: 7.19 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

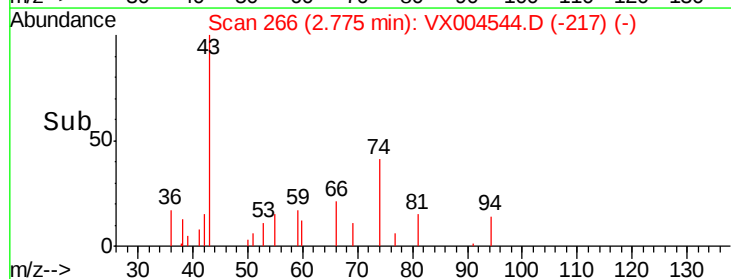
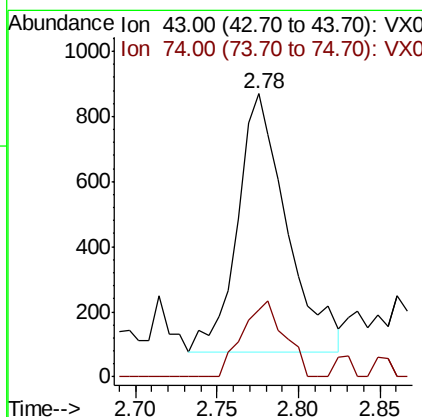
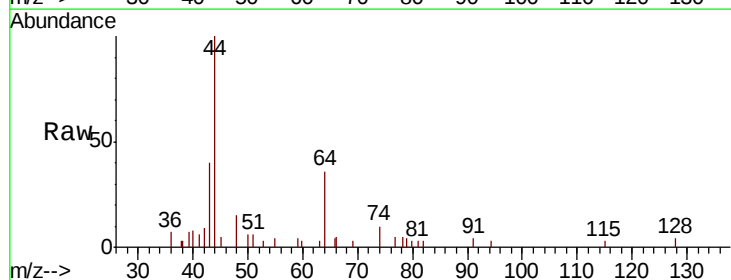
Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

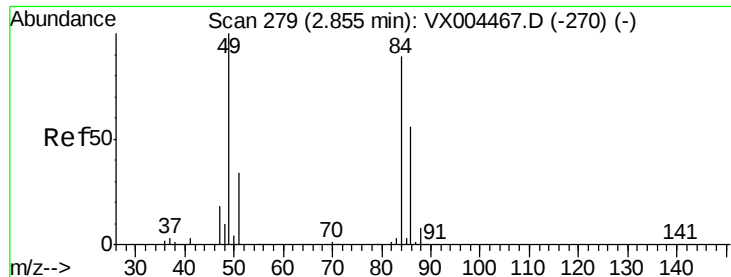
Tot Ion: 43 Resp: 12534
Ion Ratio Lower Upper
43 100
58 31.2 26.2 39.4



#18
Methyl Acetate
Concen: 0.34 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion: 43 Resp: 1678
Ion Ratio Lower Upper
43 100
74 25.1 19.4 29.2

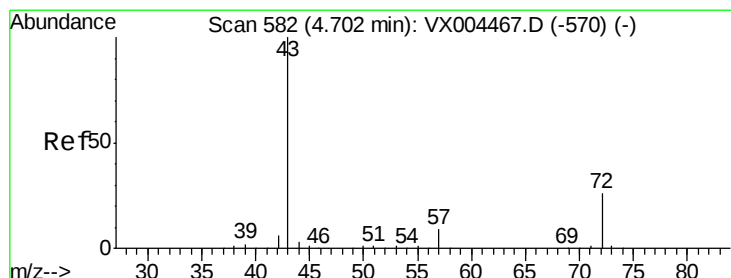
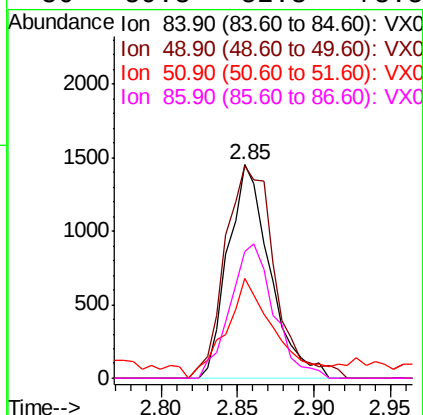
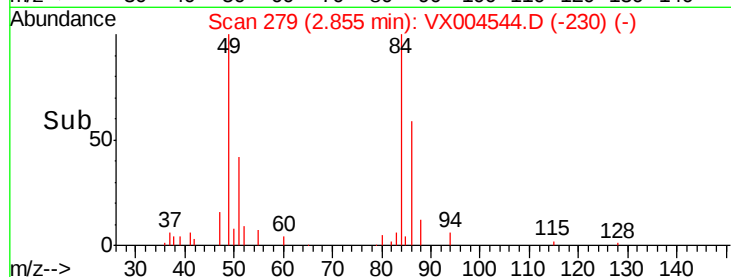
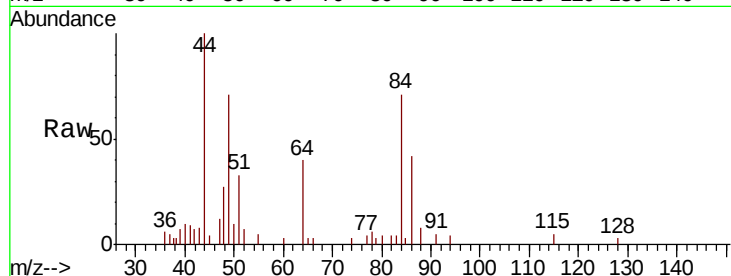




#20
Methvlene Chloride
Concen: 0.78 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

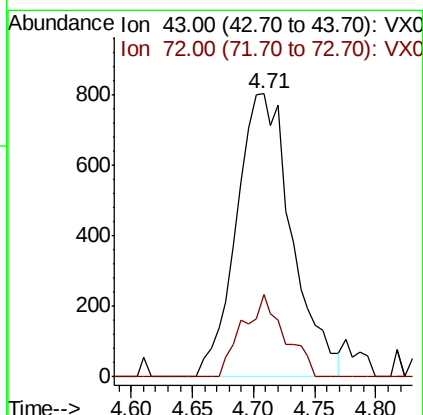
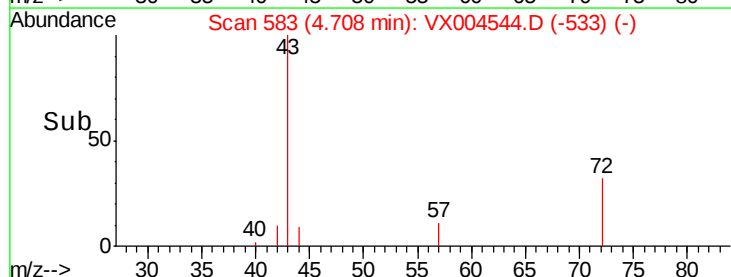
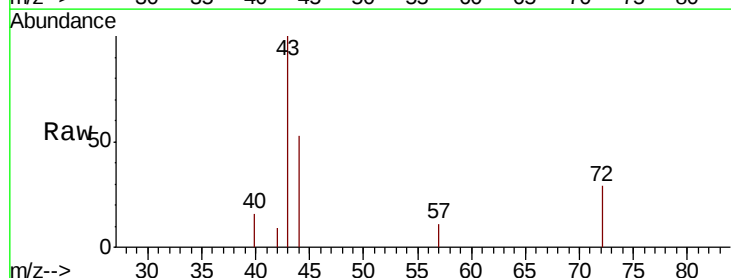
Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

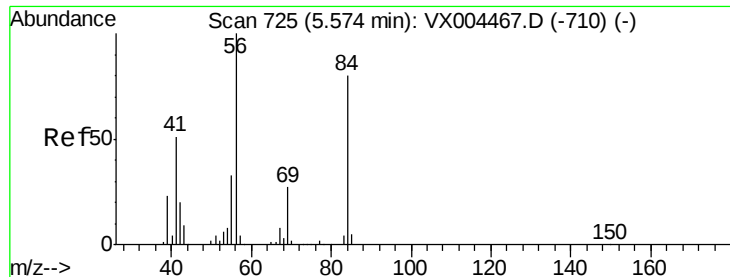
Tot Ion: 84 Resp: 2773
Ion Ratio Lower Upper
84 100
49 99.6 101.2 151.8#
51 46.8 29.5 44.3#
86 59.3 52.3 78.5



#25
2-Butanone
Concen: 0.91 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion: 43 Resp: 2532
Ion Ratio Lower Upper
43 100
72 29.2 22.0 33.0

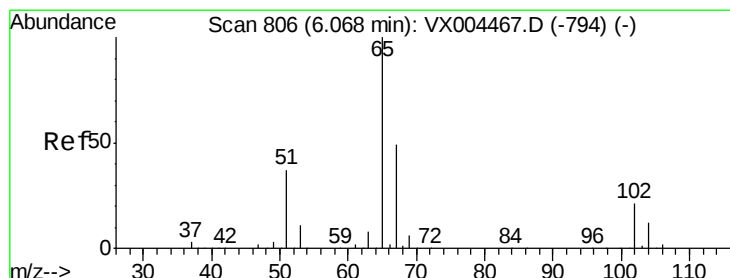
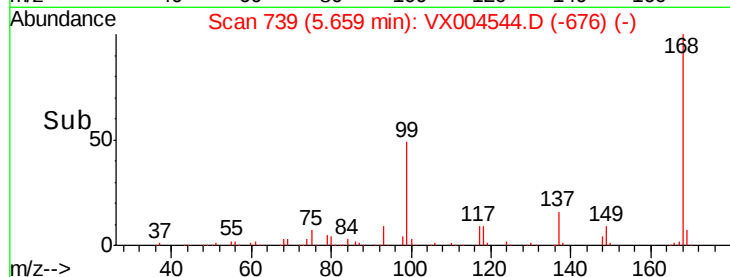
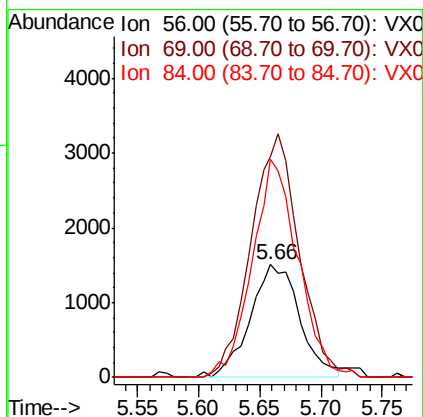
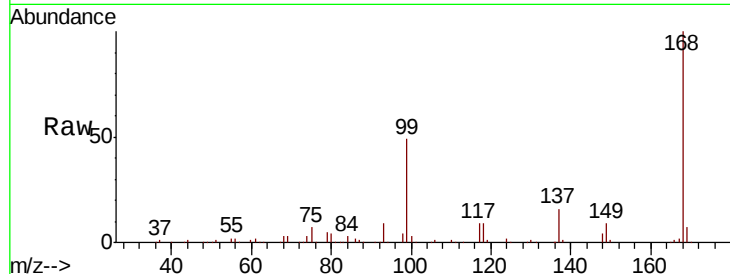




#31
Cyclohexane
Concen: 0.82 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

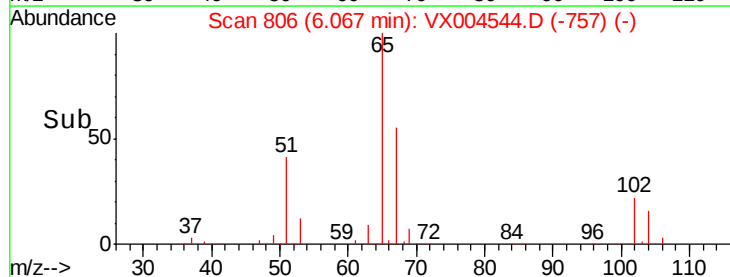
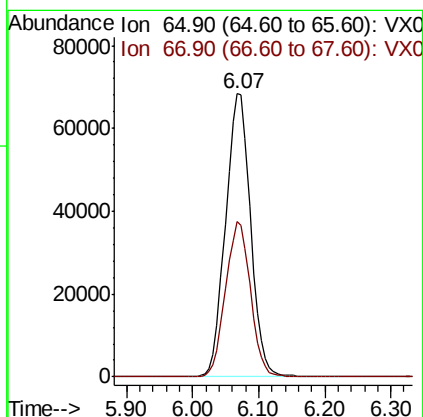
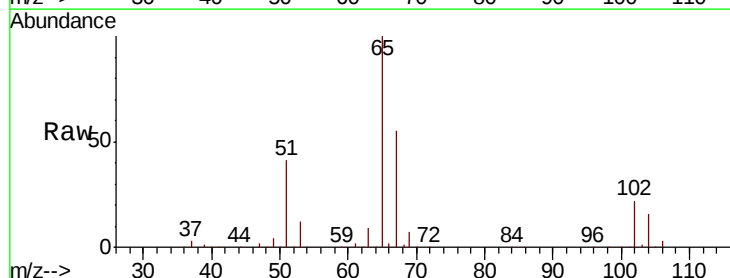
Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

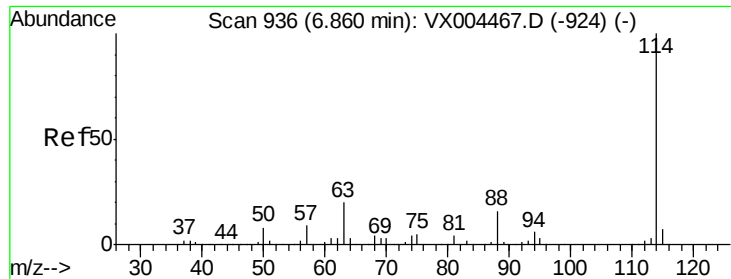
Tot Ion: 56 Resp: 4237
Ion Ratio Lower Upper
56 100
69 196.4 25.4 38.2#
84 194.0 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 50.08 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion: 65 Resp: 178876
Ion Ratio Lower Upper
65 100
67 54.8 0.0 106.8

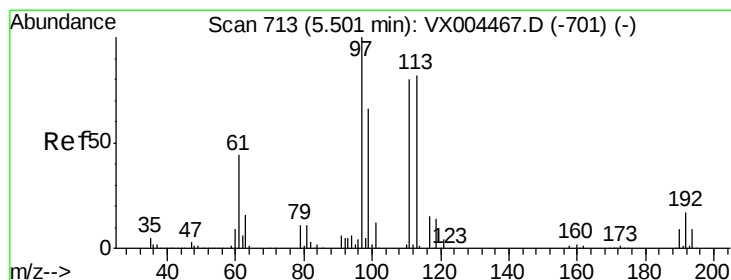
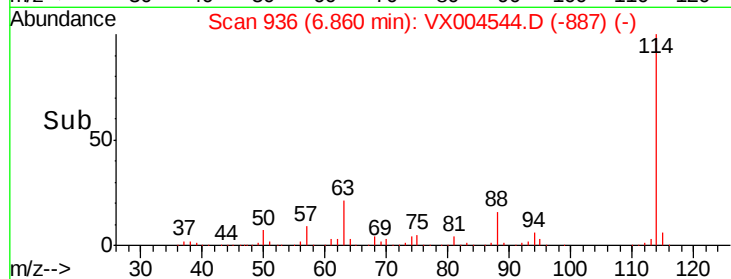
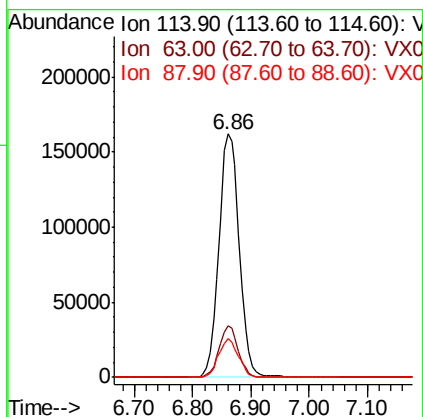
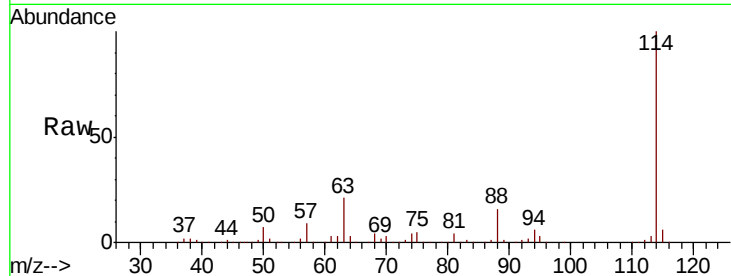




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

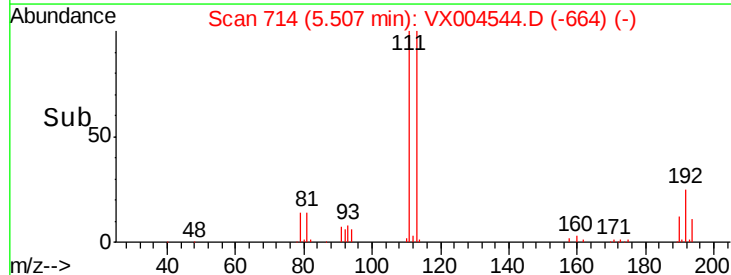
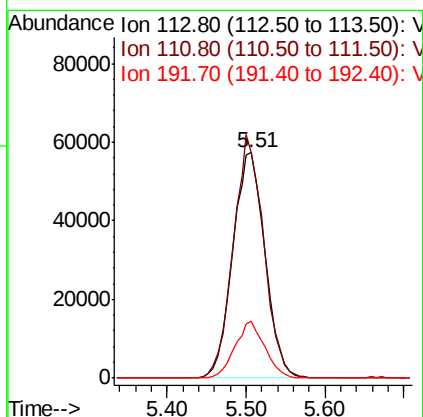
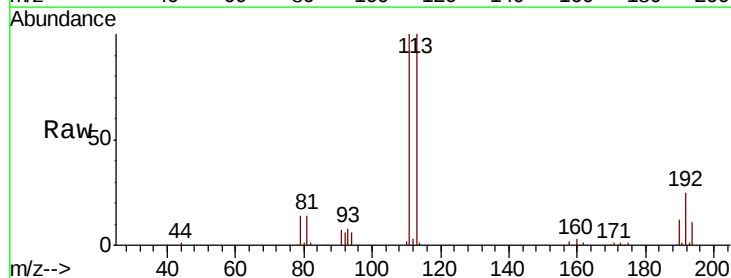
Instrument :
 MSVOA_X
 ClientSampleId :
 WASTE-CLASS-DRUMS

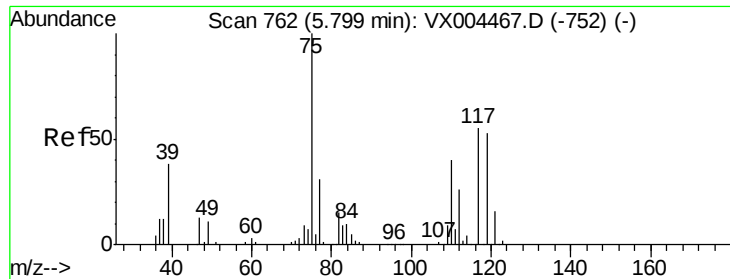
Tot Ion:114 Resp: 391981
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.0
 88 15.9 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 45.36 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

Tgt Ion:113 Resp: 162694
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.4 123.6
 192 23.5 19.4 29.2

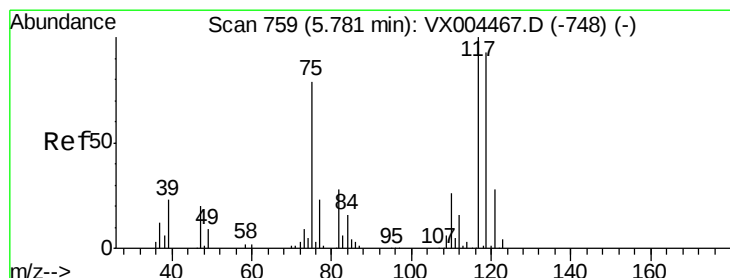
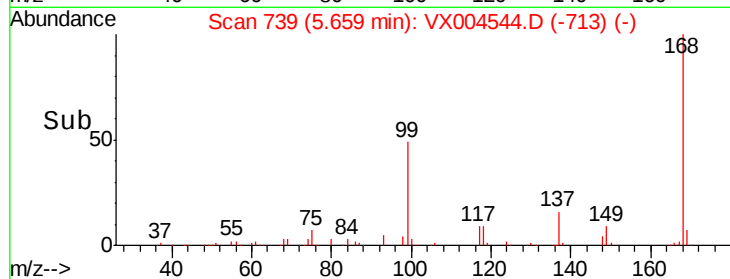
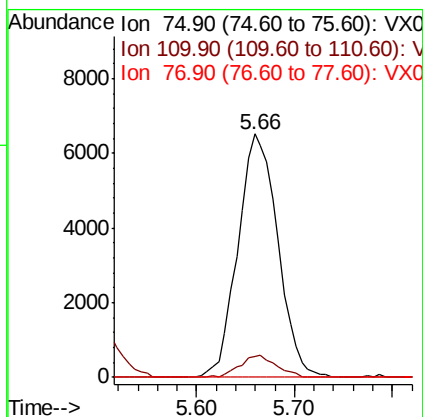
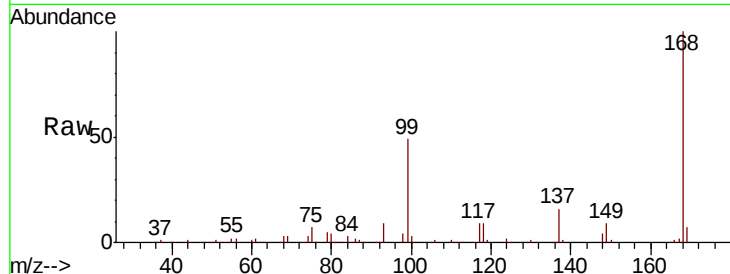




#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

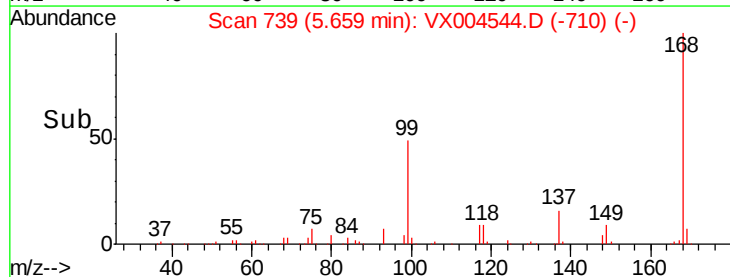
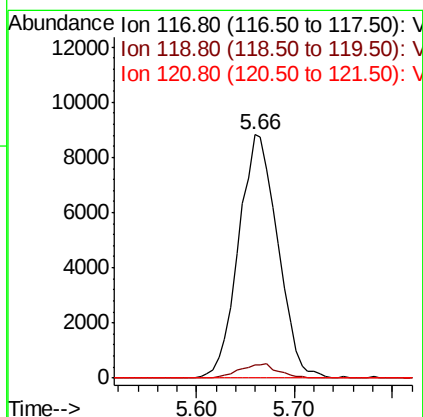
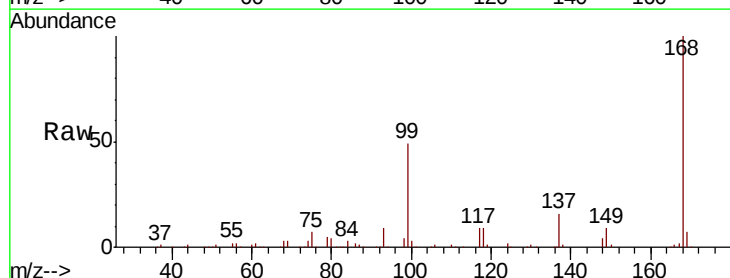
Instrument :
 MSVOA_X
 ClientSampleId :
 WASTE-CLASS-DRUMS

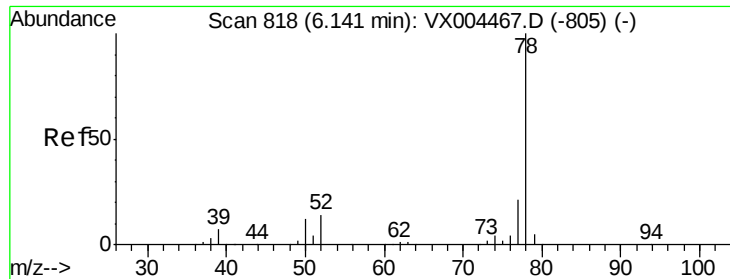
Tot Ion	75	Resp	18411
Ion Ratio	100	Lower	Upper
75	100		
110	8.2	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.26 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

Tgt Ion	117	Resp	24460
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.7	78.8	118.2#
121	0.0	24.9	37.3#





#40

Benzene

Concen: 0.27 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

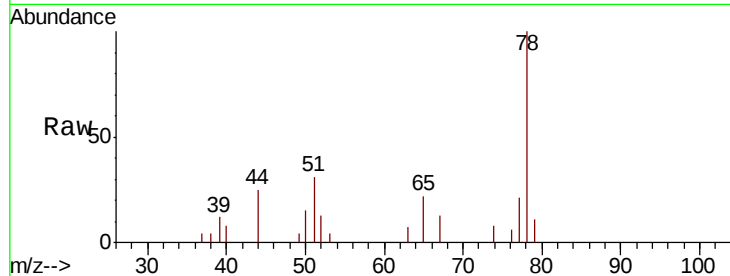
WASTE-CLASS-DRUMS

Tot Ion: 78 Resp: 3843

Ion Ratio Lower Upper

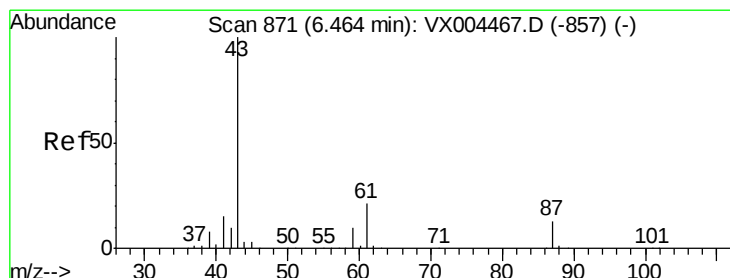
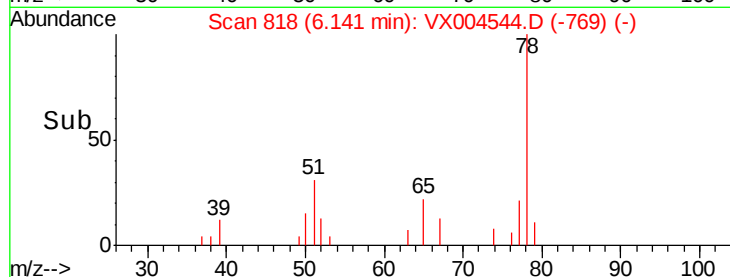
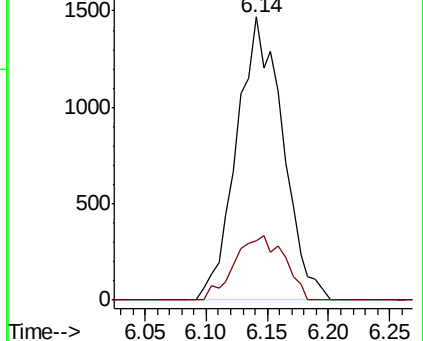
78 100

77 20.9 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#43

Isopropyl Acetate

Concen: 0.36 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.01 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

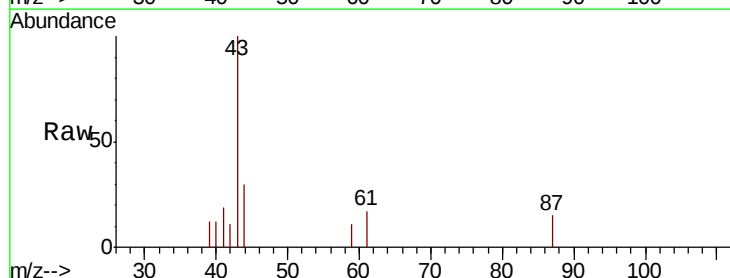
Tgt Ion: 43 Resp: 2592

Ion Ratio Lower Upper

43 100

61 9.1 17.0 25.4#

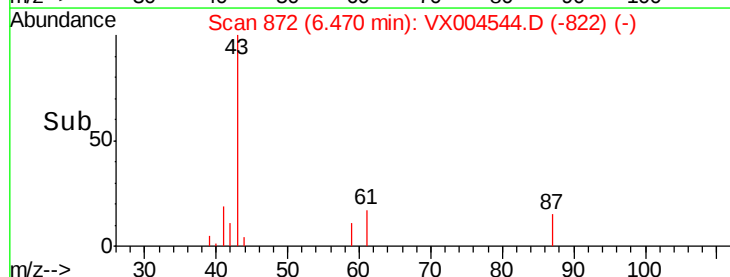
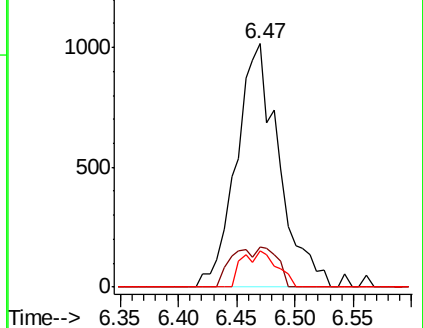
87 12.0 11.4 17.2

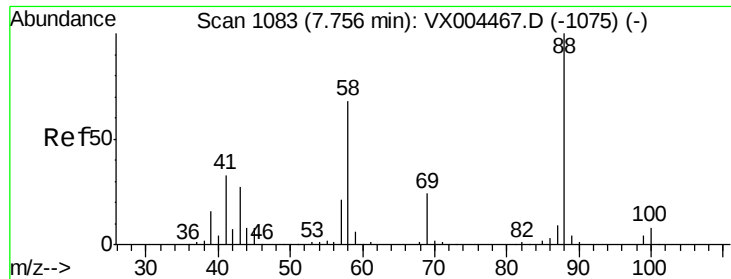


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#49

1,4-Dioxane

Concen: 2.02 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

WASTE-CLASS-DRUMS

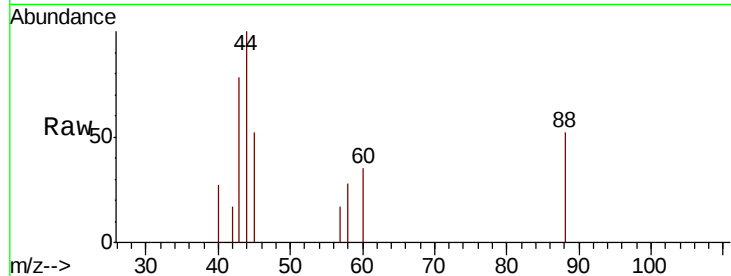
Tot Ion: 88 Resp: 170

Ion Ratio Lower Upper

88 100

43 184.7 24.7 37.1#

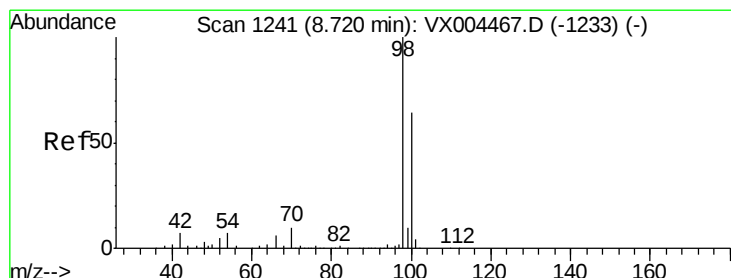
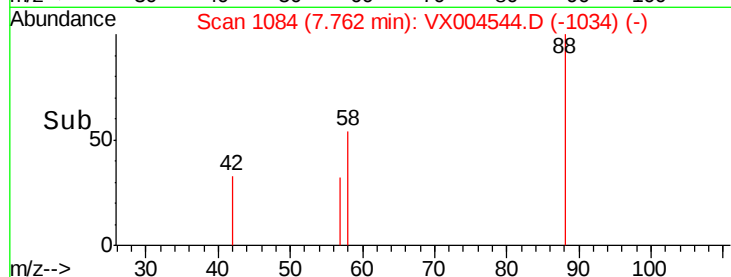
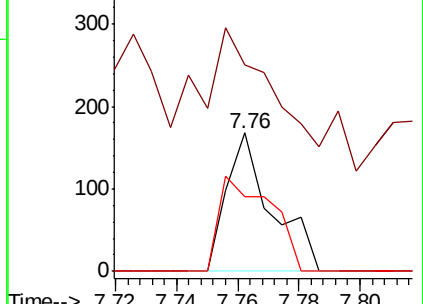
58 79.4 55.3 82.9



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 47.69 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004544.D

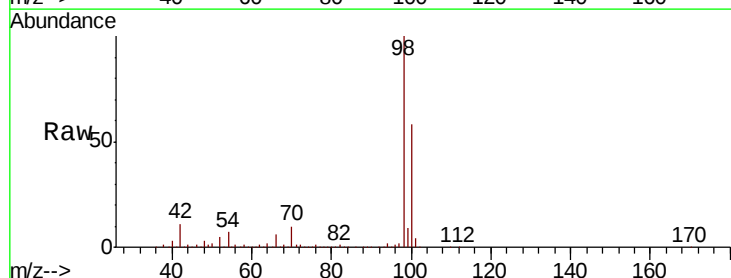
Acq: 14 Sep 2018 17:07

Tgt Ion: 98 Resp: 573654

Ion Ratio Lower Upper

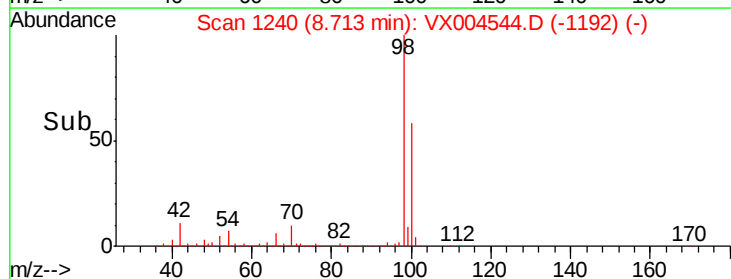
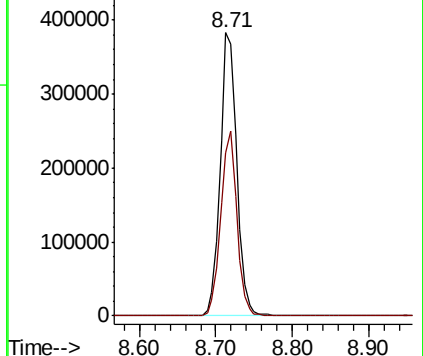
98 100

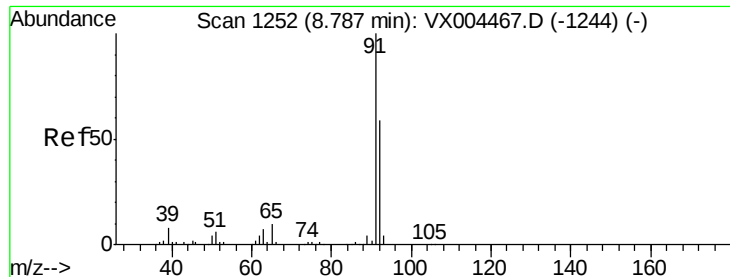
100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.61 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

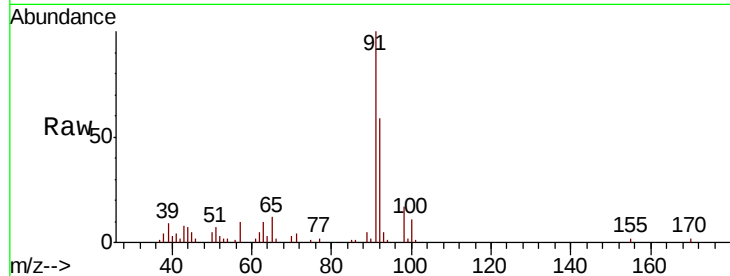
WASTE-CLASS-DRUMS

Tot Ion: 92 Resp: 5100

Ion Ratio Lower Upper

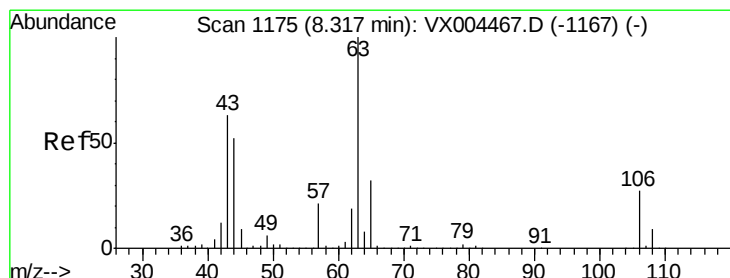
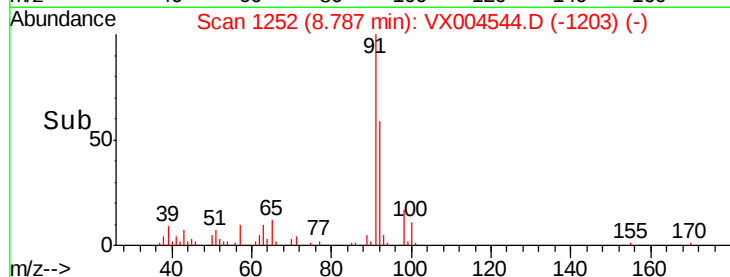
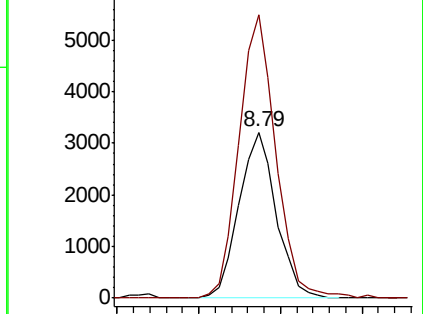
92 100

91 168.8 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 7.28 ug/l

RT: 8.25 min Scan# 1164

Delta R.T. -0.07 min

Lab File: VX004544.D

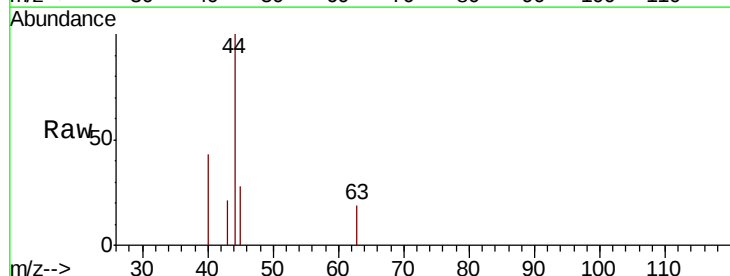
Acq: 14 Sep 2018 17:07

Tgt Ion: 63 Resp: 20

Ion Ratio Lower Upper

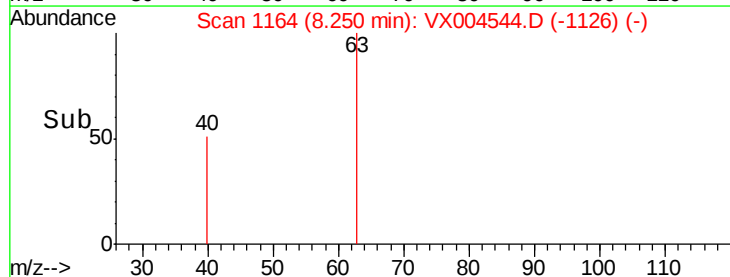
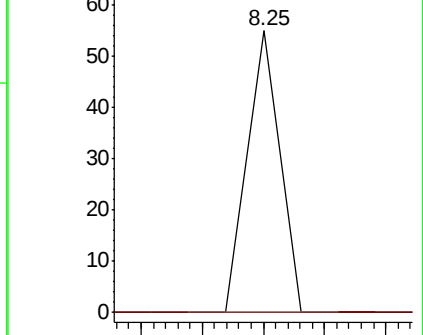
63 100

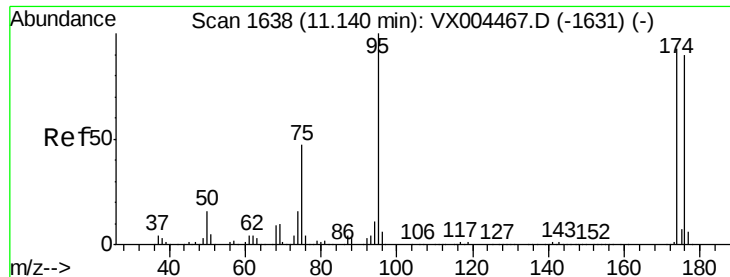
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 47.23 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

WASTE-CLASS-DRUMS

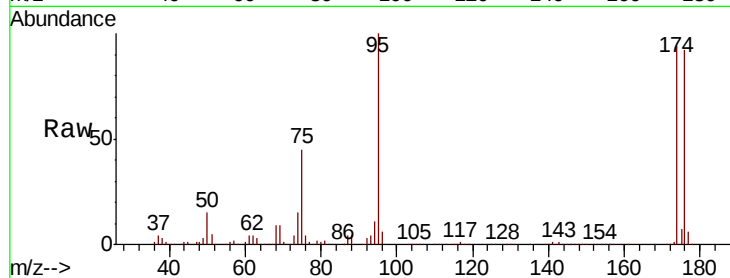
Tot Ion: 95 Resp: 202808

Ion Ratio Lower Upper

95 100

174 91.9 0.0 185.2

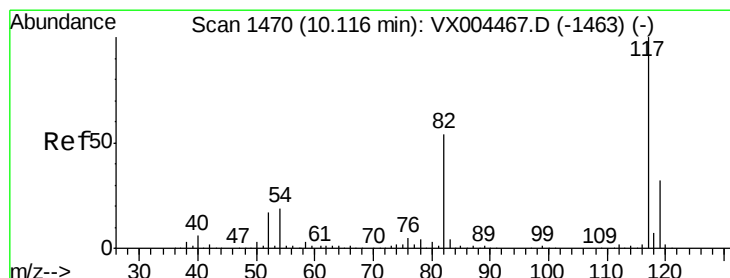
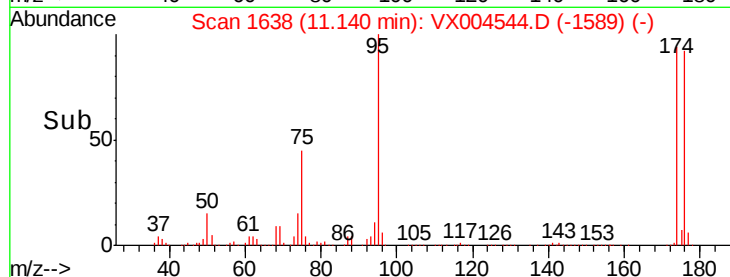
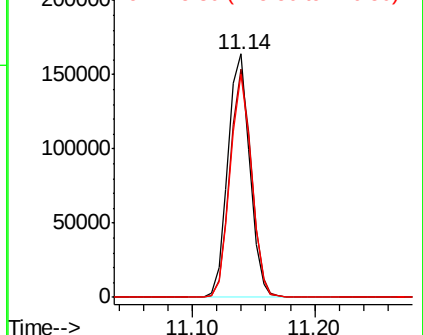
176 89.4 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

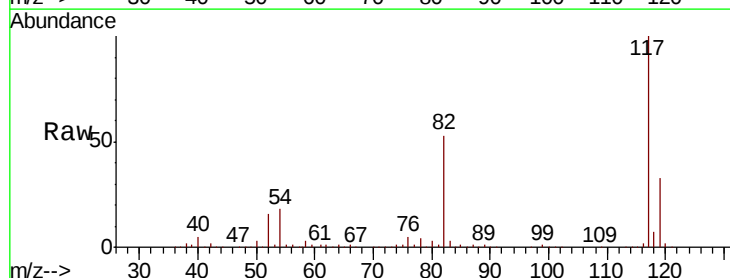
Tgt Ion: 117 Resp: 367591

Ion Ratio Lower Upper

117 100

82 53.1 47.8 71.6

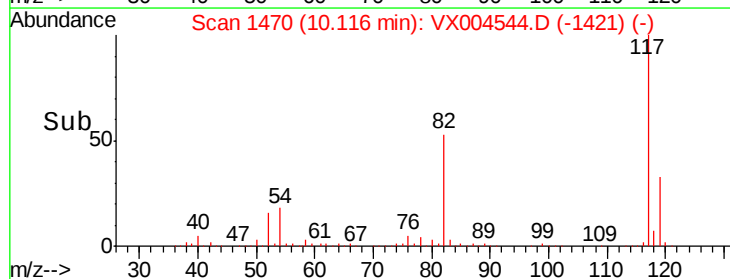
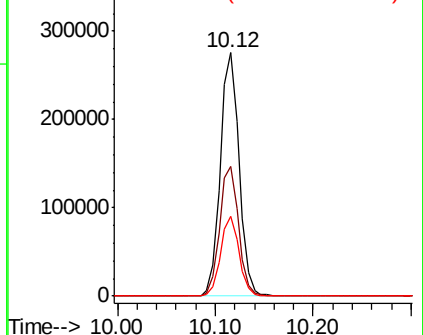
119 32.7 29.3 43.9

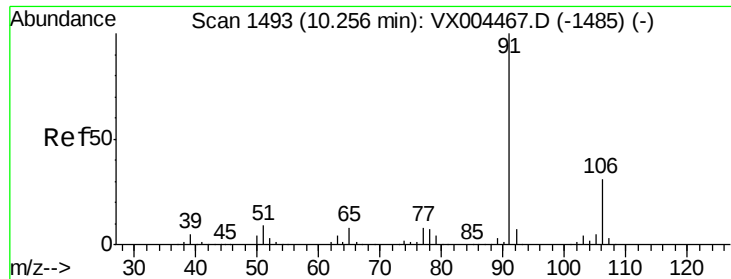


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

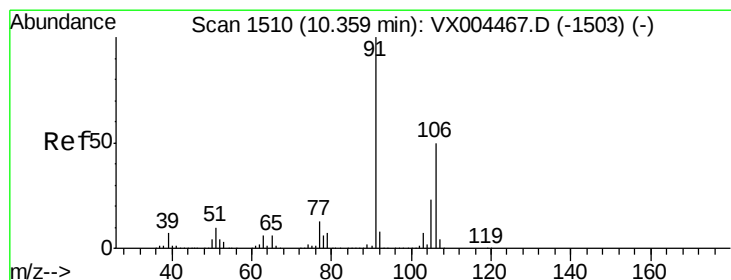
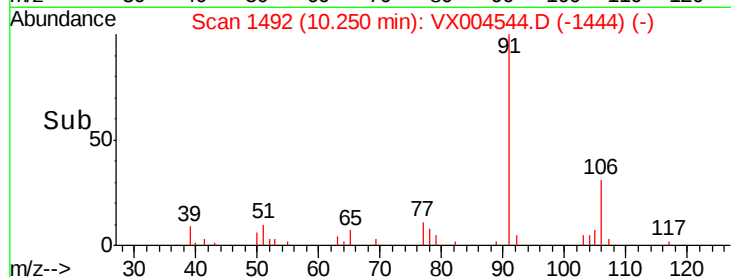
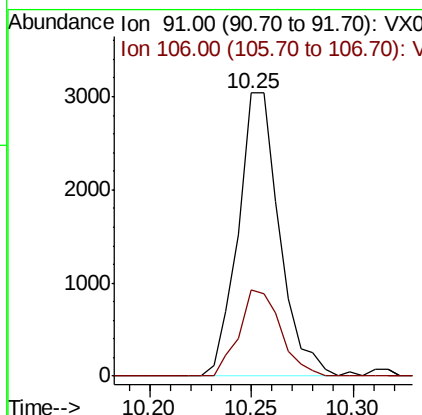
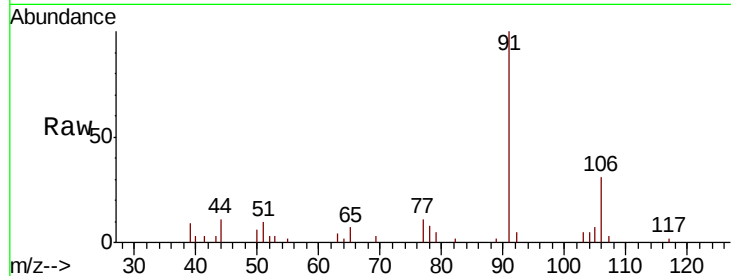




#67
Ethyl Benzene
Concen: 0.29 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

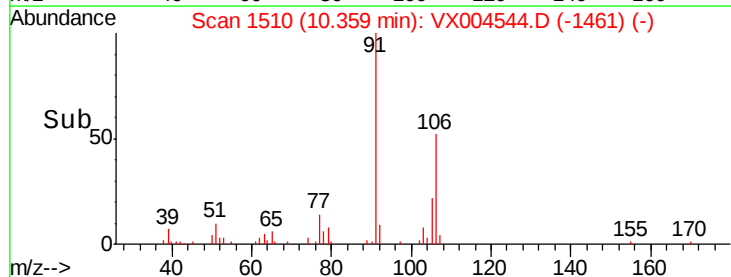
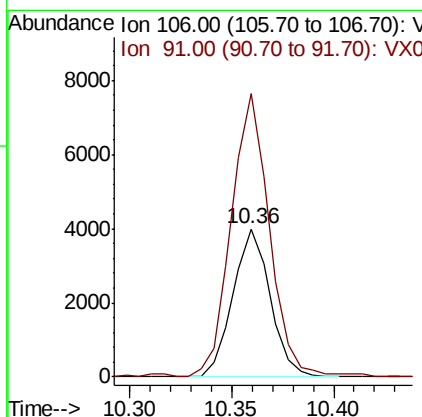
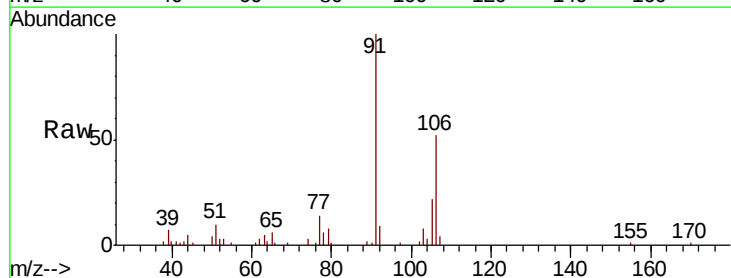
Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

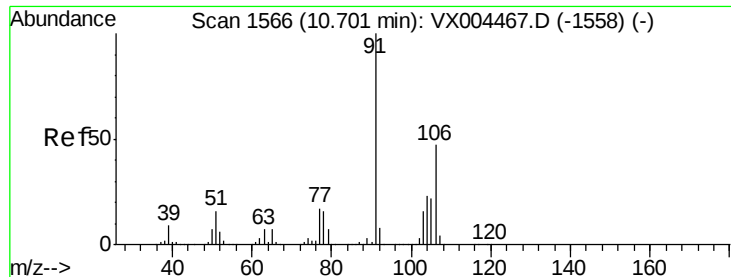
Tot Ion: 91 Resp: 4292
Ion Ratio Lower Upper
91 100
106 30.6 25.9 38.9



#68
m/p-Xylenes
Concen: 0.88 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion: 106 Resp: 5032
Ion Ratio Lower Upper
106 100
91 198.0 157.1 235.7

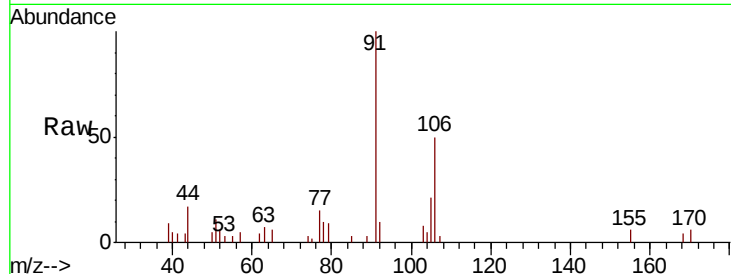




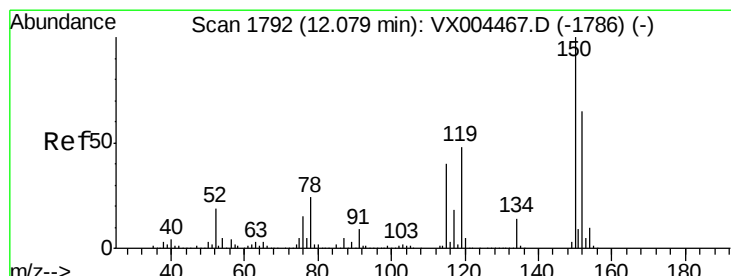
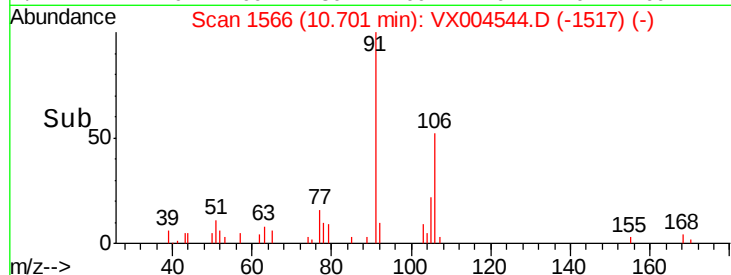
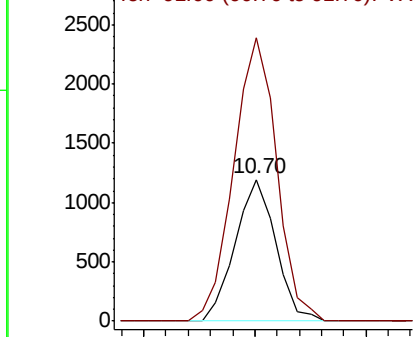
#69
o-Xylene
Concen: 0.28 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Instrument :
MSVOA_X
ClientSampleId :
WASTE-CLASS-DRUMS

Tot Ion:106 Resp: 1518
Ion Ratio Lower Upper
106 100
91 211.9 105.1 315.1

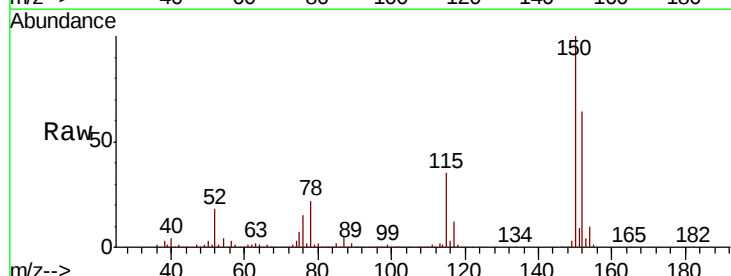


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

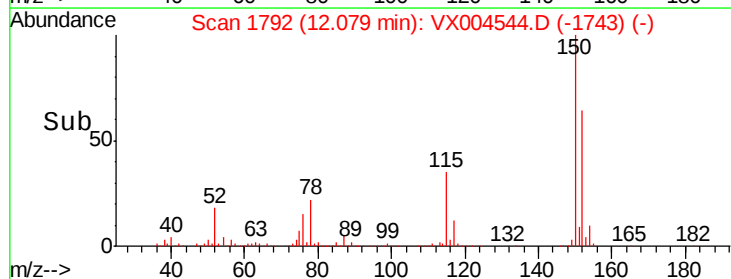
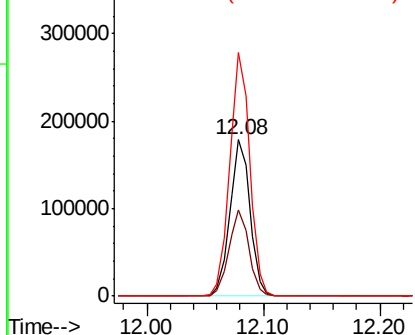


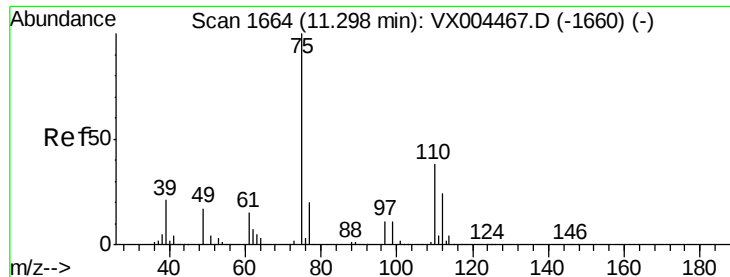
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004544.D
Acq: 14 Sep 2018 17:07

Tgt Ion:152 Resp: 213749
Ion Ratio Lower Upper
152 100
115 55.1 39.0 117.0
150 156.0 0.0 351.0



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: 21.67 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

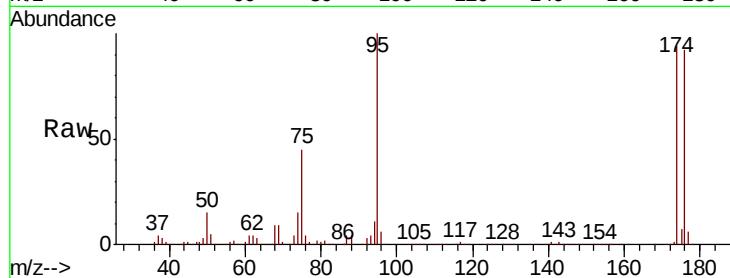
WASTE-CLASS-DRUMS

Tot Ion: 75 Resp: 93201

Ion Ratio Lower Upper

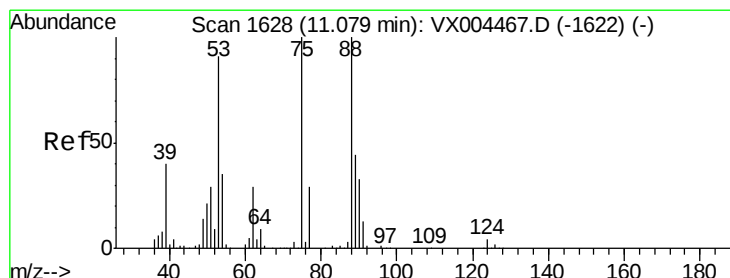
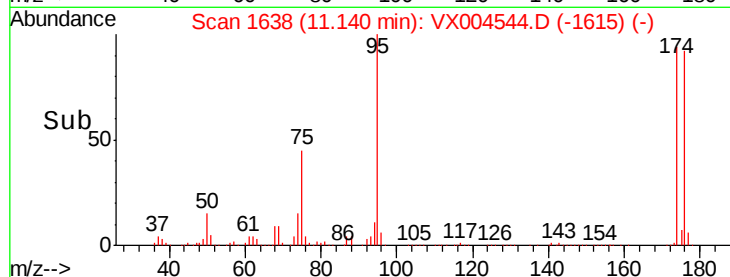
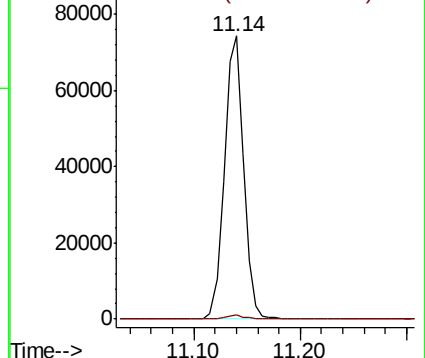
75 100

77 1.4 20.2 60.6#



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: 69.08 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004544.D

Acq: 14 Sep 2018 17:07

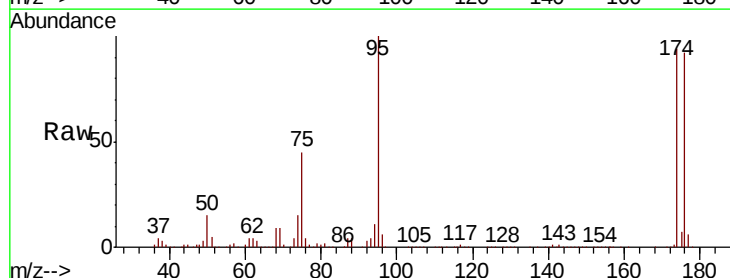
Tgt Ion: 75 Resp: 93201

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

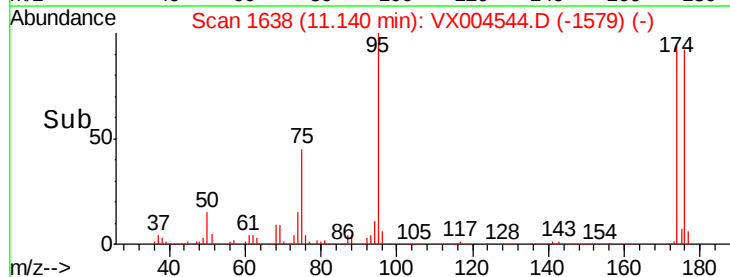
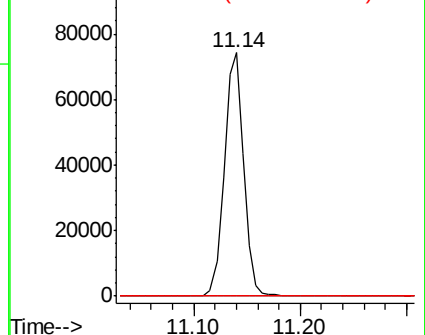
89 0.0 37.2 55.8#

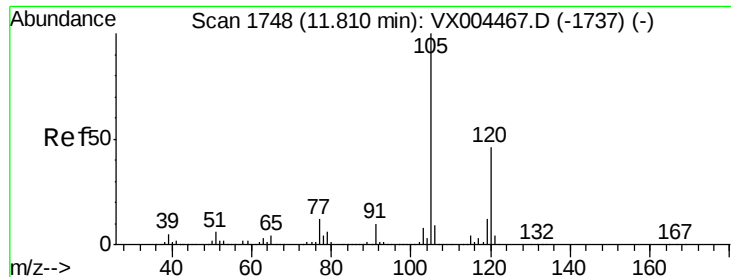


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

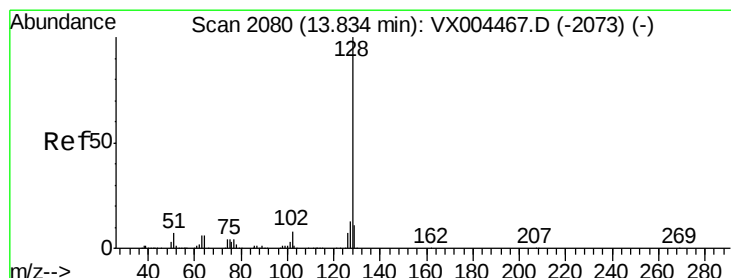
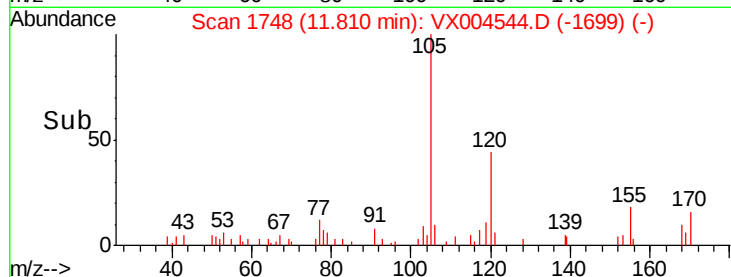
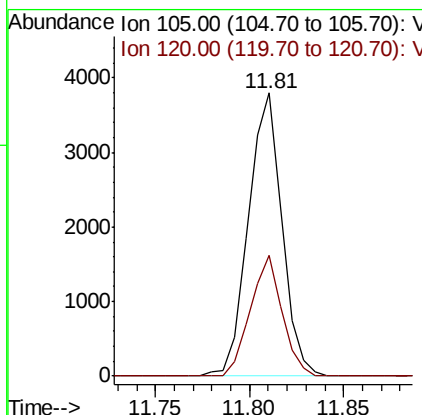
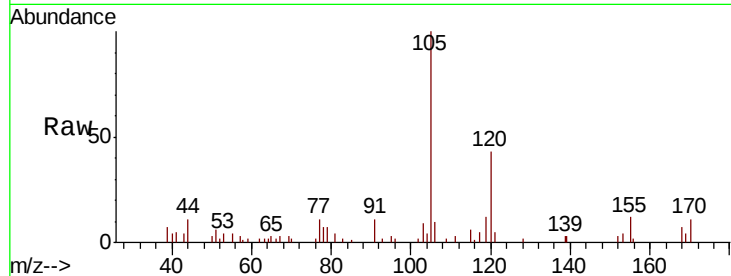




#84
 1,2,4-Trimethylbenzene
 Concen: 0.39 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

Instrument :
 MSVOA_X
 ClientSampleId :
 WASTE-CLASS-DRUMS

Tot Ion:105 Resp: 4688
 Ion Ratio Lower Upper
 105 100
 120 40.1 23.2 69.6



#95
 Naphthalene
 Concen: 12.48 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX004544.D
 Acq: 14 Sep 2018 17:07

Tgt Ion:128 Resp: 182123
 Ion Ratio Lower Upper
 128 100
 127 12.6 10.2 15.2
 129 10.7 8.6 12.8

