

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060338.D
 Acq On : 25 Sep 2018 21:27
 Operator : VA/AP
 Sample : J5069-01
 Misc : 5.10/5mL/MSVOA_F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SLUDGE-A

Quant Time: Sep 26 01:48:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	130704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	197627	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	109299	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	33803	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	68244	38.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.56%	
35) Dibromofluoromethane	4.27	113	82152	46.63	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.26%	
50) Toluene-d8	7.69	98	199696	43.53	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	87.06%	
62) 4-Bromofluorobenzene	11.50	95	59162	29.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.66%	

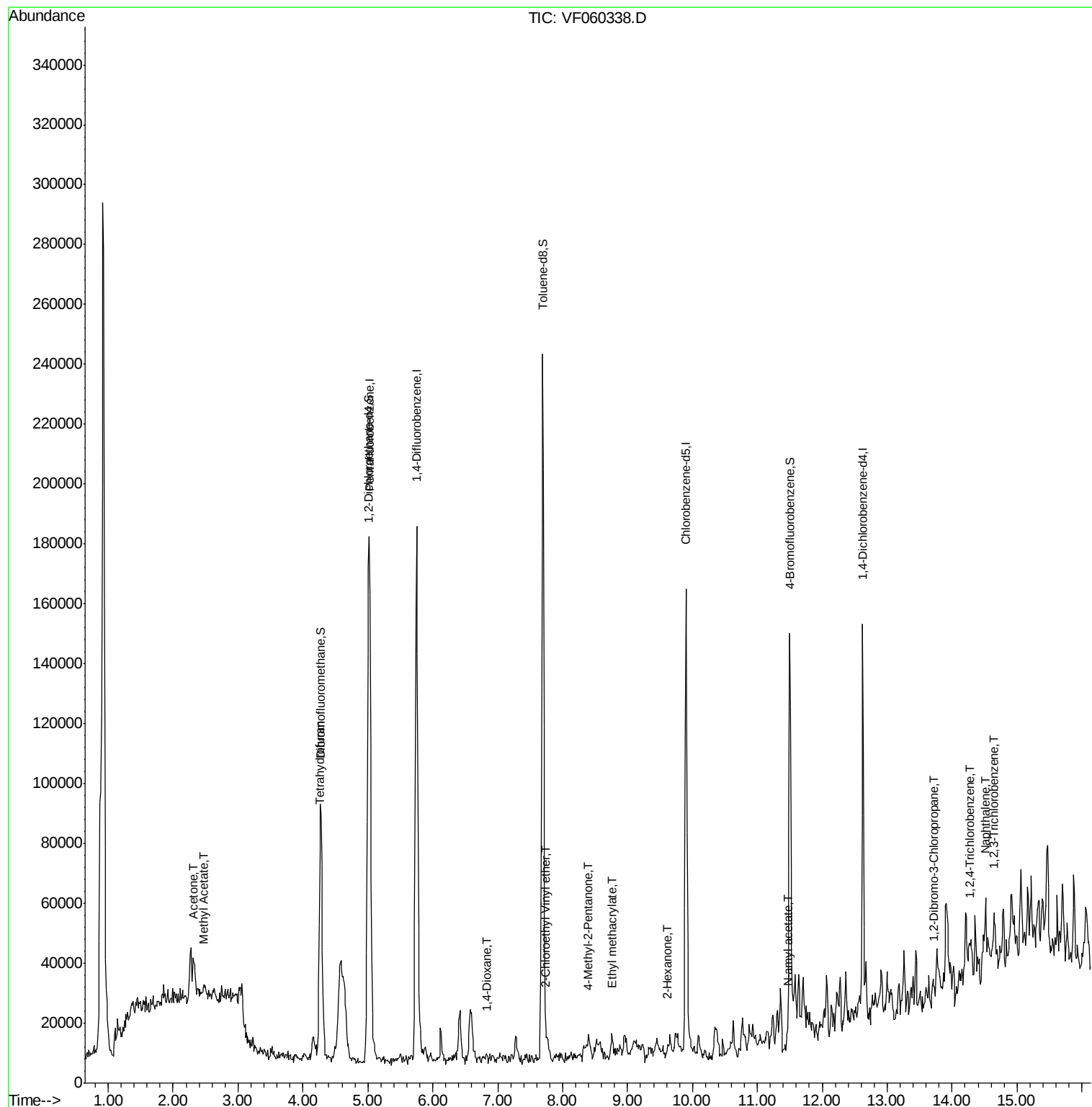
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	1253	Below Cal		98
5) Bromomethane	1.34	94	1024	Below Cal		89
11) Tert butyl alcohol	2.66	59	651	Below Cal	#	1
13) Acrolein	2.08	56	879	Below Cal		91
16) Acetone	2.33	43	21555	43.489	ug/l	94
17) Carbon Disulfide	1.86	76	7719	Below Cal	#	84
18) Methyl Acetate	2.46	43	1043	1.263	ug/l #	62
20) Methylene Chloride	2.28	84	8027	Below Cal	#	83
29) Tetrahydrofuran	4.25	42	434	1.776	ug/l #	80
49) 1,4-Dioxane	6.84	88	73	9.270	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	4386	4.532	ug/l	96
56) Ethyl methacrylate	8.76	69	3731	2.878	ug/l #	64
58) 2-Chloroethyl Vinyl ether	7.75	63	138	1.204	ug/l	100
59) 2-Hexanone	9.61	43	4238	6.150	ug/l	92
74) N-amyl acetate	11.46	43	1992	3.078	ug/l #	41
78) n-propylbenzene	11.68	91	2876	Below Cal	#	57
85) sec-Butylbenzene	12.37	105	2148	Below Cal	#	78
86) p-Isopropyltoluene	12.52	119	1420	Below Cal	#	65
89) n-Butylbenzene	12.91	91	2749	Below Cal	#	59
92) 1,2-Dibromo-3-Chloropropan	13.72	75	141	1.396	ug/l #	29
93) 1,2,4-Trichlorobenzene	14.26	180	1155	1.363	ug/l	93
95) Naphthalene	14.51	128	6819	4.590	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	1292	1.650	ug/l #	71

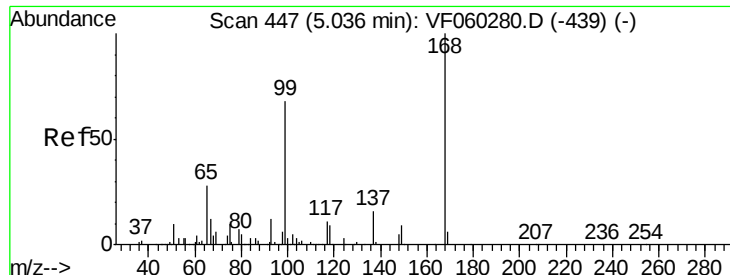
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

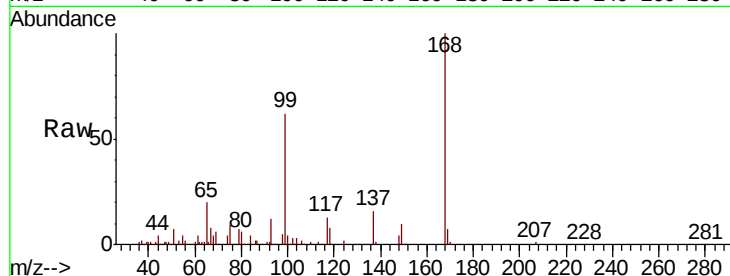
SLUDGE-A

Tgt Ion:168 Resp: 130704

Ion Ratio Lower Upper

168 100

99 62.4 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

40000

30000

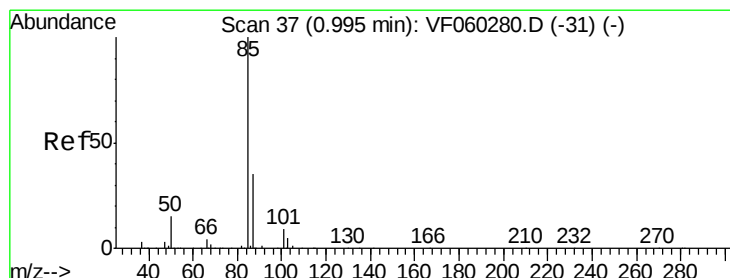
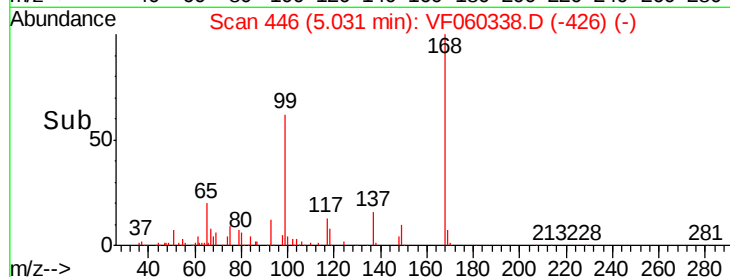
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. -0.00 min

Lab File: VF060338.D

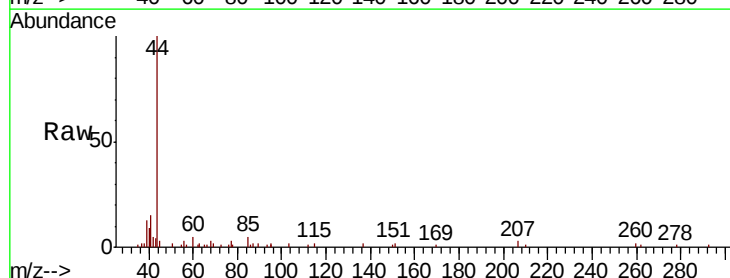
Acq: 25 Sep 2018 21:27

Tgt Ion: 85 Resp: 1253

Ion Ratio Lower Upper

85 100

87 36.0 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

600

500

400

300

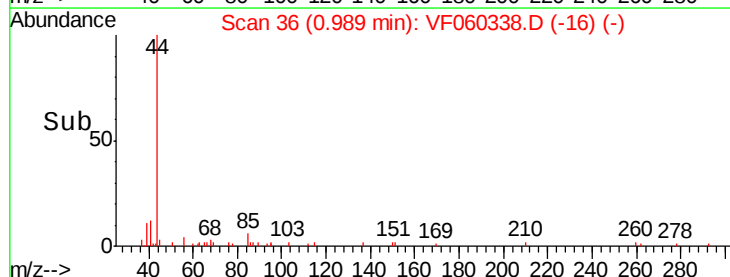
200

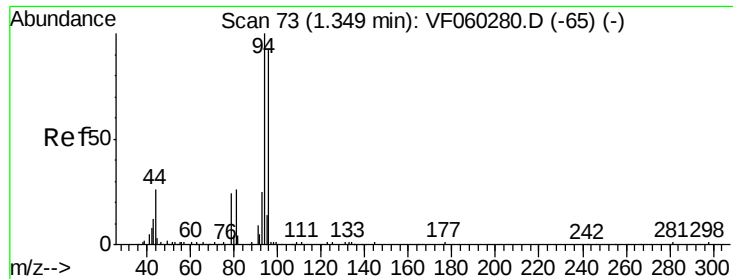
100

0

0.90 0.95 1.00 1.05 1.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

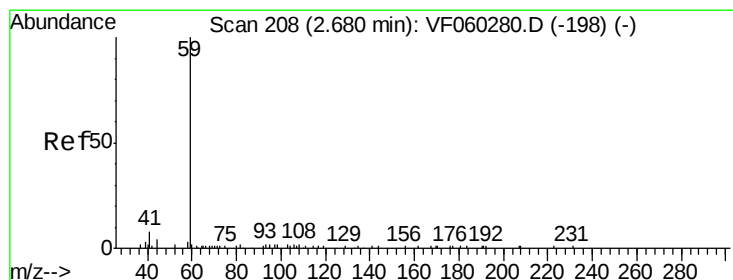
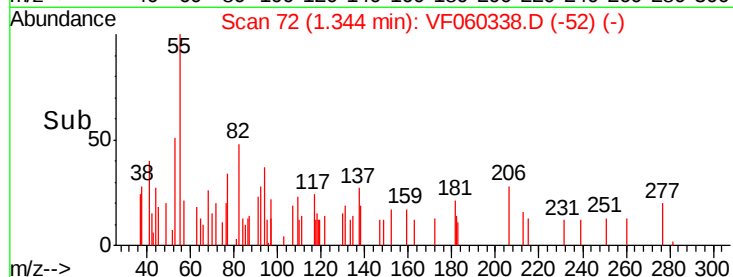
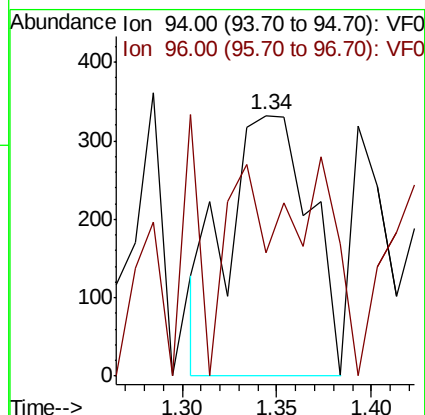
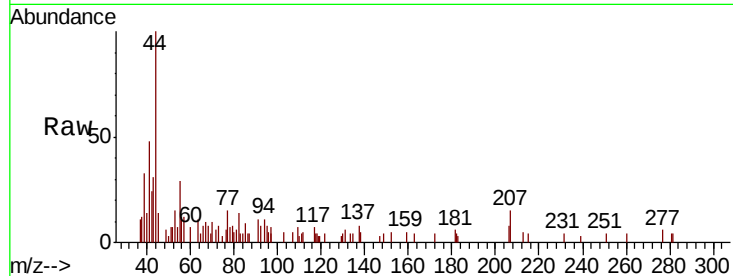
SLUDGE-A

Tgt Ion: 94 Resp: 1024

Ion Ratio Lower Upper

94 100

96 81.6 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.66 min Scan# 205

Delta R.T. -0.02 min

Lab File: VF060338.D

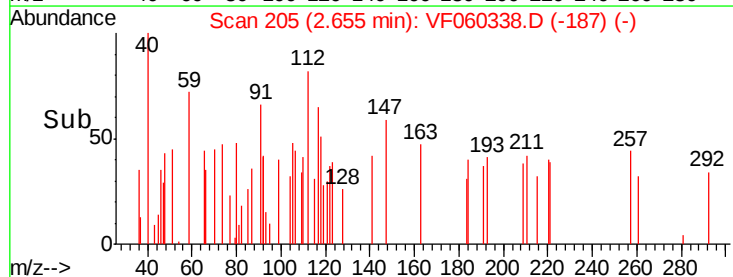
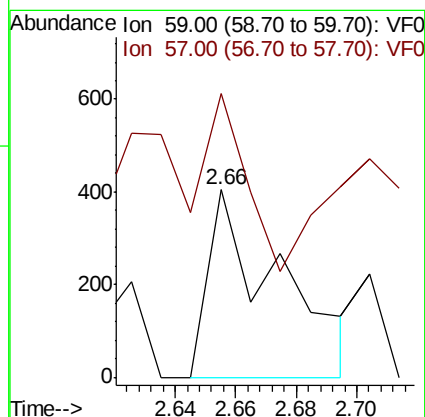
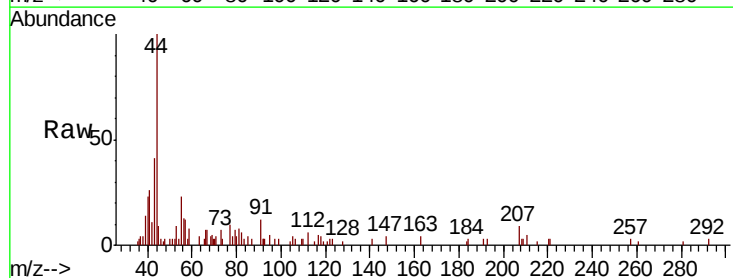
Acq: 25 Sep 2018 21:27

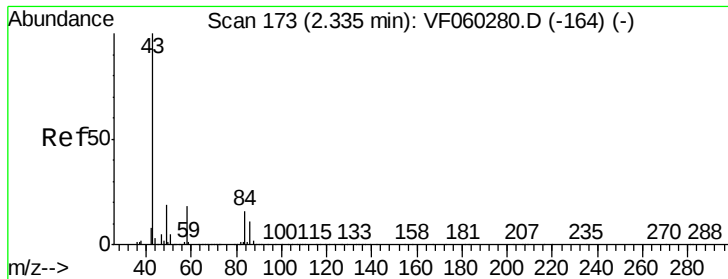
Tgt Ion: 59 Resp: 651

Ion Ratio Lower Upper

59 100

57 151.5 12.4 18.6#

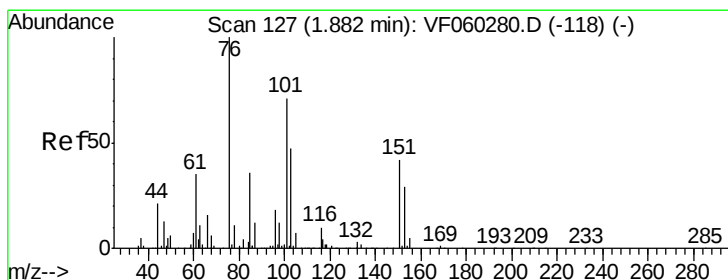
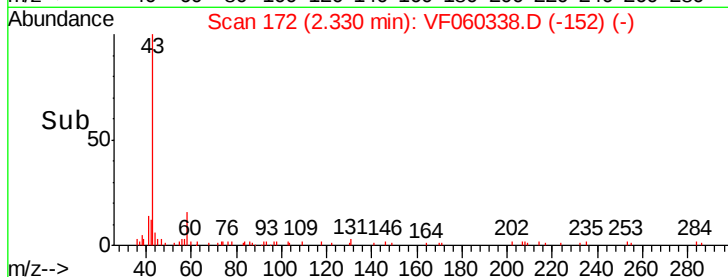
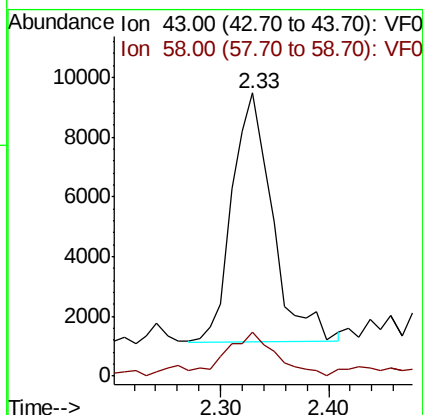
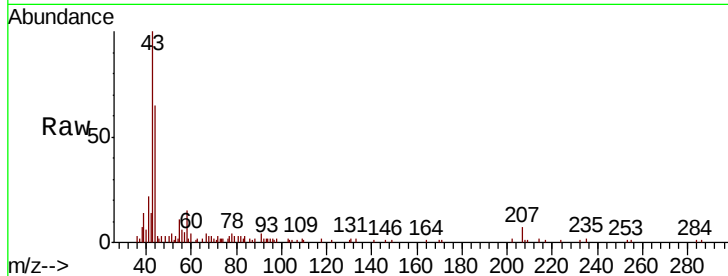




#16
Acetone
Concen: 43.489 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

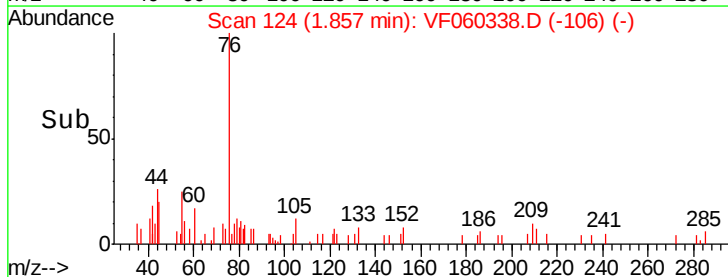
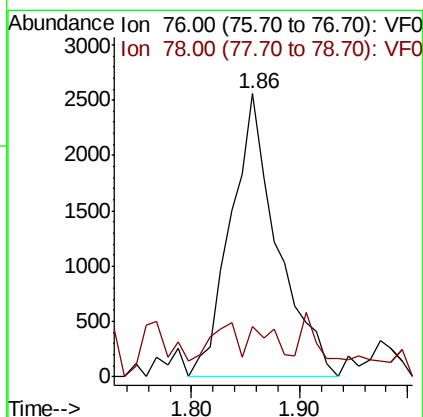
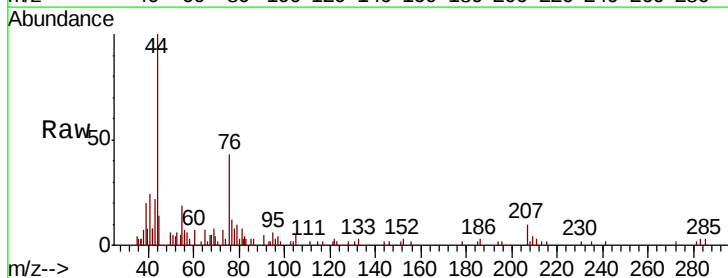
Instrument :
MSVOA_F
ClientSampled :
SLUDGE-A

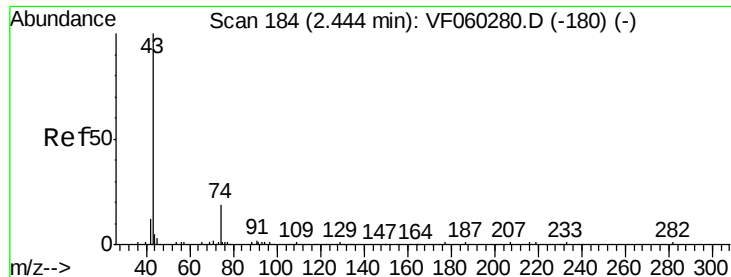
Tgt Ion: 43 Resp: 21555
Ion Ratio Lower Upper
43 100
58 15.5 14.5 21.7



#17
Carbon Disulfide
Concen: Below Cal
RT: 1.86 min Scan# 124
Delta R.T. -0.02 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 76 Resp: 7719
Ion Ratio Lower Upper
76 100
78 18.0 9.4 14.0#

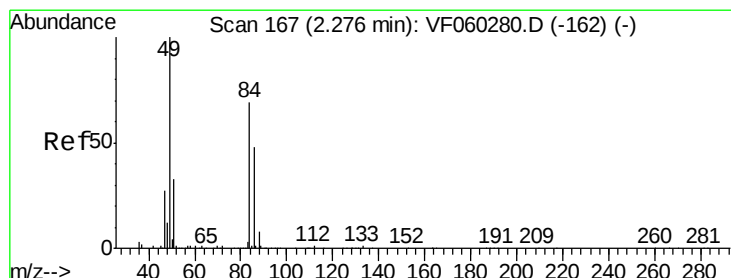
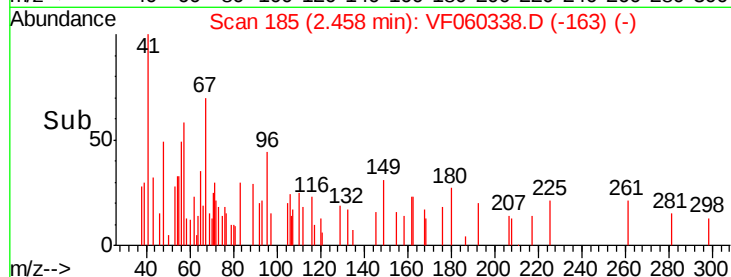
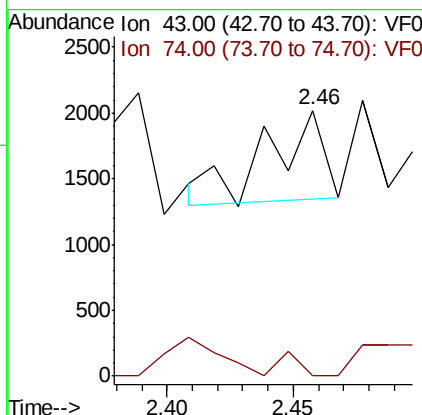
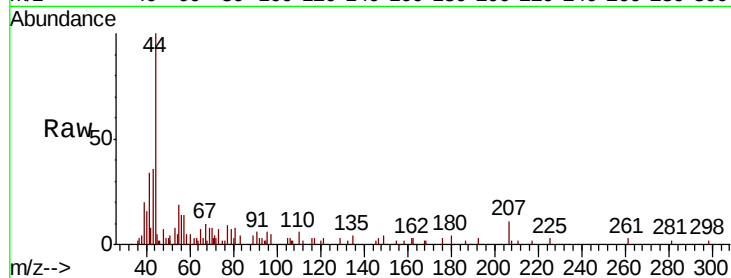




#18
Methyl Acetate
Concen: 1.263 ug/l
RT: 2.46 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

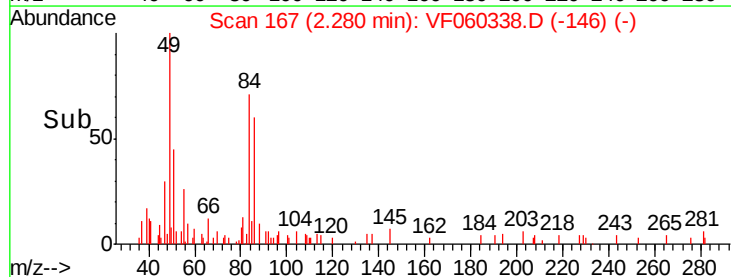
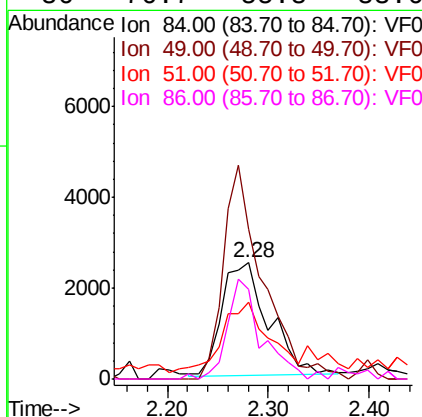
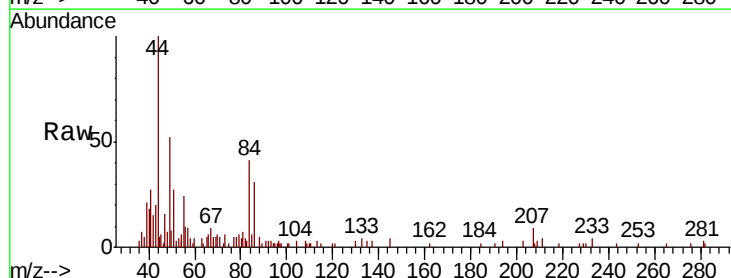
Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

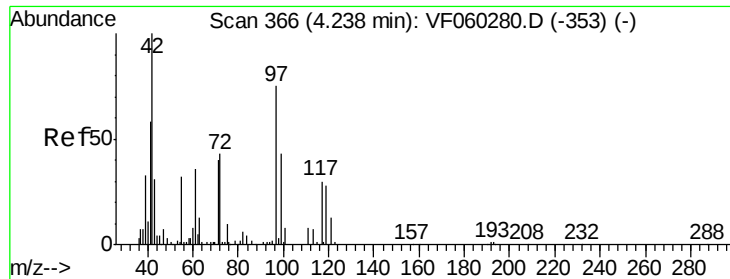
Tgt Ion: 43 Resp: 1043
Ion Ratio Lower Upper
43 100
74 0.0 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. 0.00 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 84 Resp: 8027
Ion Ratio Lower Upper
84 100
49 128.7 118.3 177.5
51 73.2 38.7 58.1#
86 76.7 55.8 83.6

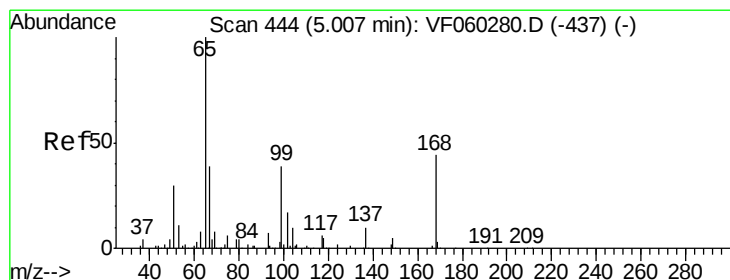
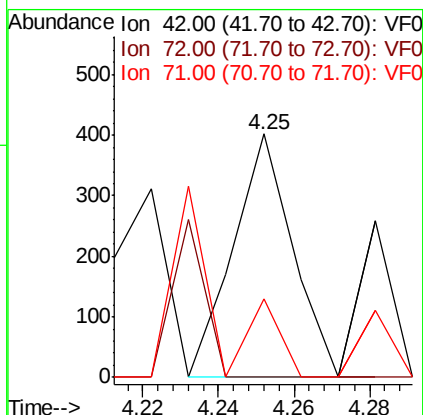
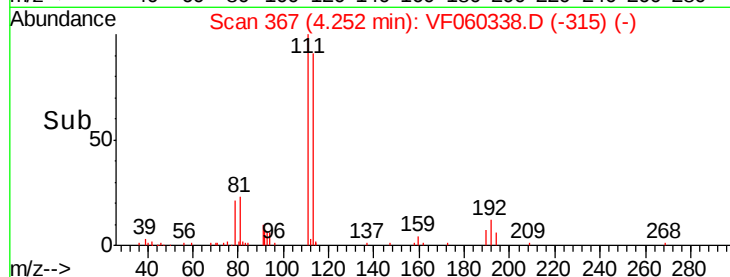
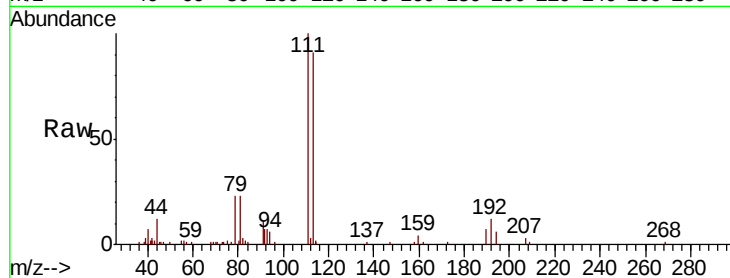




#29
Tetrahydrofuran
Concen: 1.776 ug/l
RT: 4.25 min Scan# 367
Delta R.T. 0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

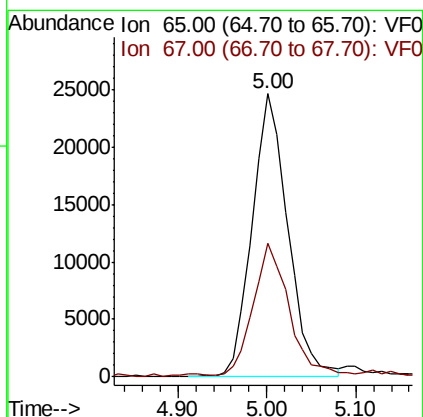
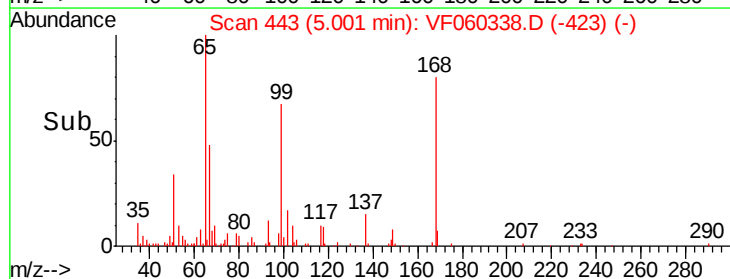
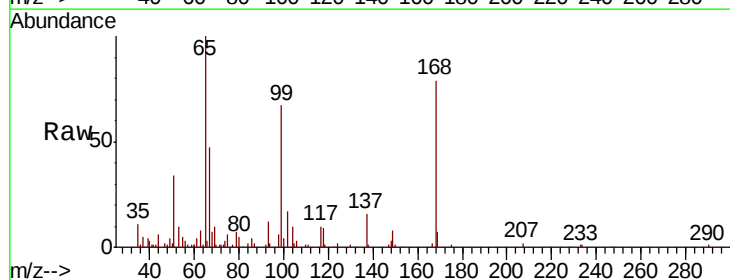
Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

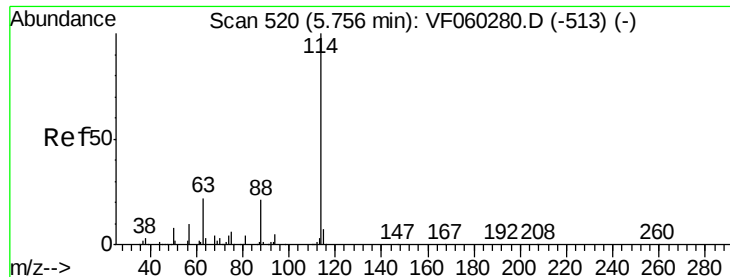
Tgt Ion: 42 Resp: 434
Ion Ratio Lower Upper
42 100
72 35.5 32.6 49.0
71 60.6 32.7 49.1#



#33
1,2-Dichloroethane-d4
Concen: 38.776 ug/l
RT: 5.00 min Scan# 443
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 65 Resp: 68244
Ion Ratio Lower Upper
65 100
67 47.3 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

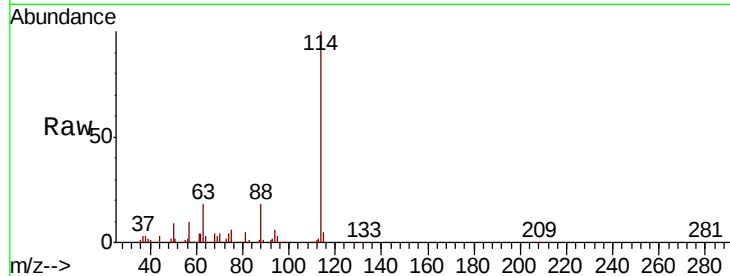
Instrument :

MSVOA_F

ClientSampleId :

SLUDGE-A

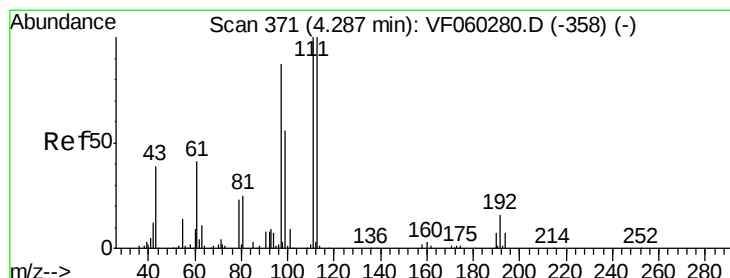
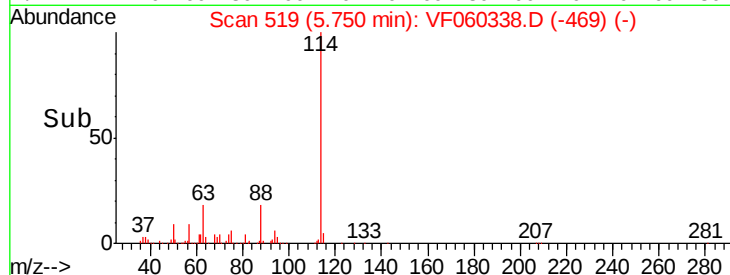
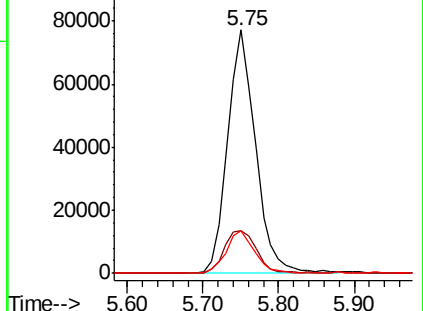
Tgt Ion:	114	Resp:	197627
Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	43.8
88	17.8	0.0	41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 46.632 ug/l

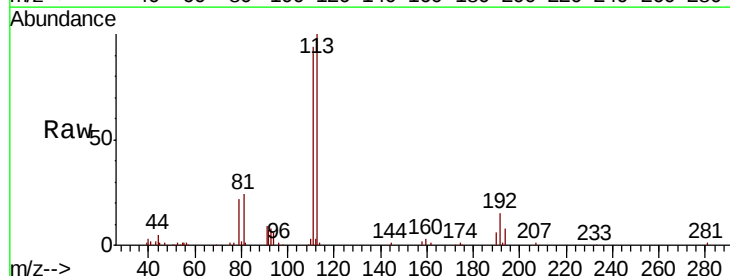
RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

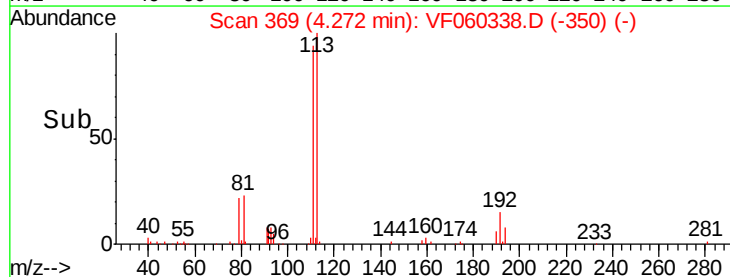
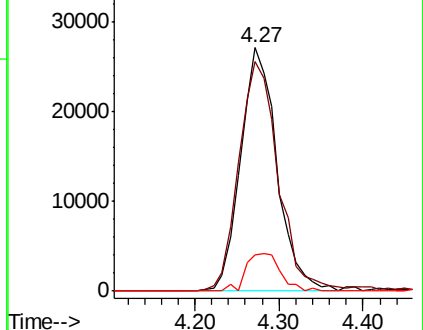
Tgt Ion:	113	Resp:	82152
Ion	Ratio	Lower	Upper
113	100		
111	94.2	79.6	119.4
192	14.7	13.0	19.6

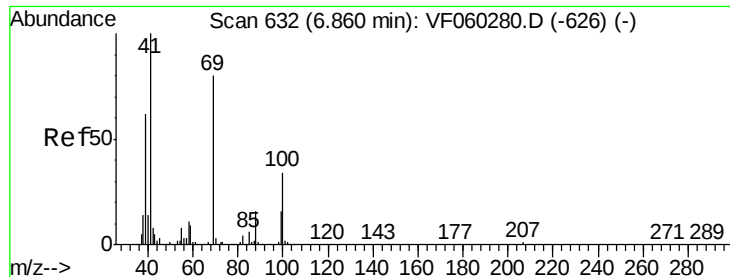


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 9.270 ug/l

RT: 6.84 min Scan# 630

Delta R.T. -0.02 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

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ClientSampleId :

SLUDGE-A

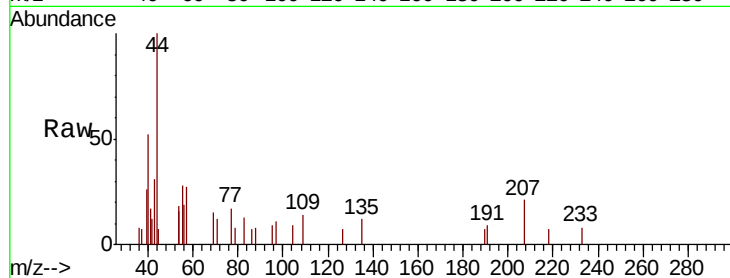
Tgt Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 378.2 40.2 60.4#

58 0.0 56.7 85.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

300

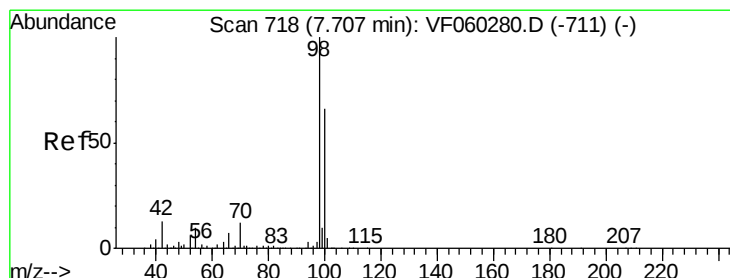
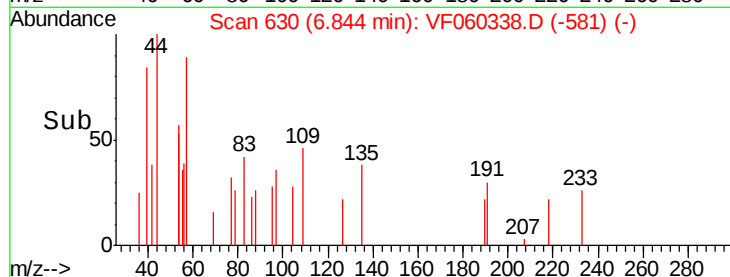
200

100

0

6.82 6.84 6.86

Time-->



#50

Toluene-d8

Concen: 43.527 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060338.D

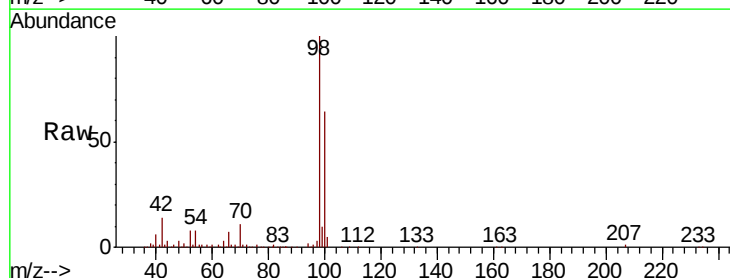
Acq: 25 Sep 2018 21:27

Tgt Ion: 98 Resp: 199696

Ion Ratio Lower Upper

98 100

100 63.8 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

100000

80000

60000

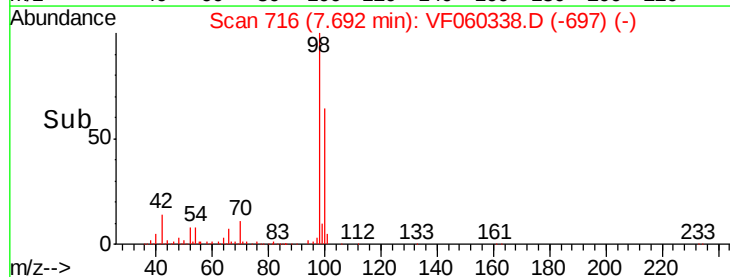
40000

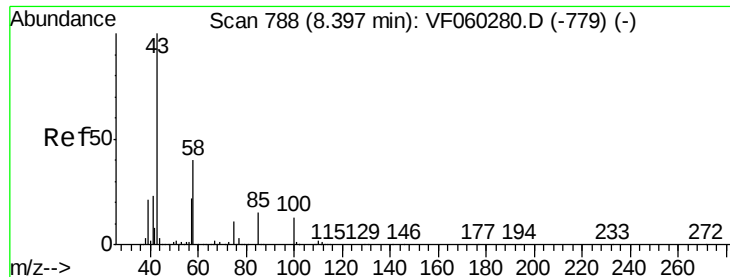
20000

0

7.60 7.70 7.80 7.90

Time-->





#51

4-Methyl-2-Pentanone

Concen: 4.532 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

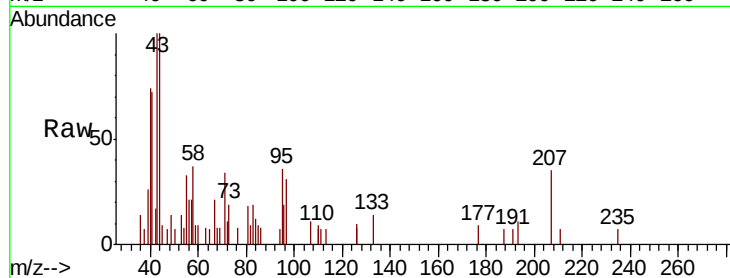
SLUDGE-A

Tgt Ion: 43 Resp: 4386

Ion Ratio Lower Upper

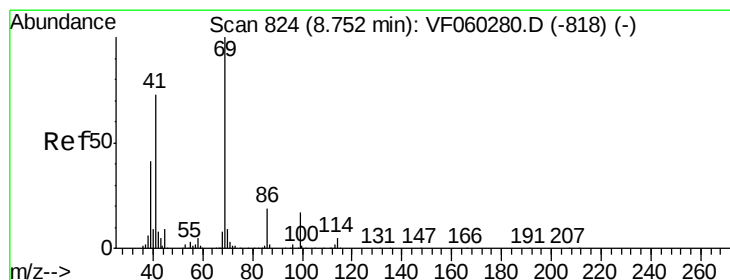
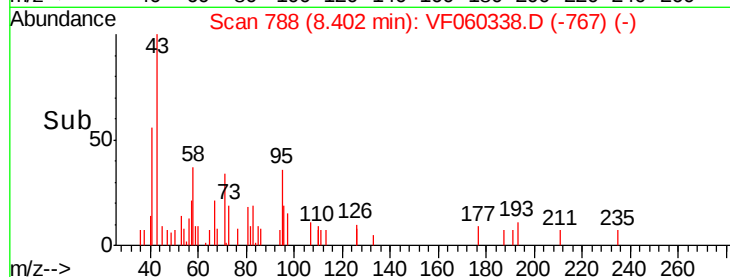
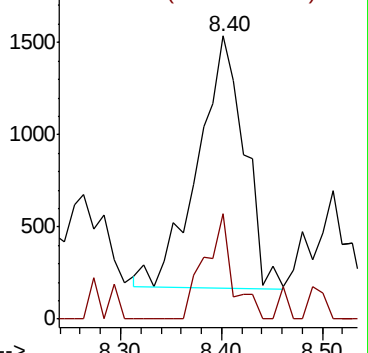
43 100

58 37.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 2.878 ug/l

RT: 8.76 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

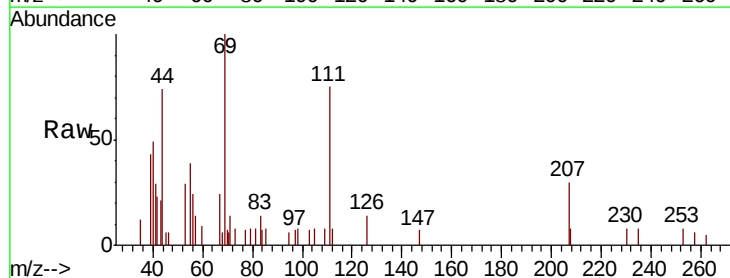
Tgt Ion: 69 Resp: 3731

Ion Ratio Lower Upper

69 100

41 27.6 59.4 89.2#

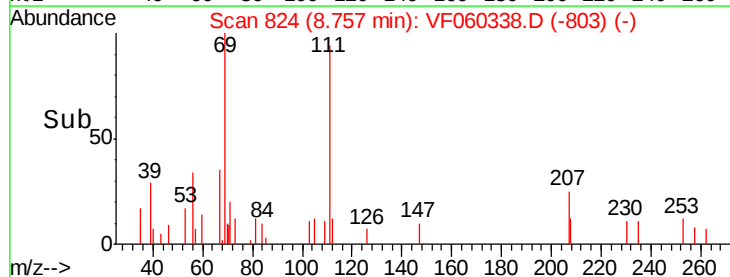
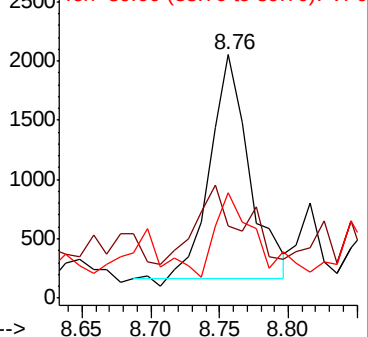
39 40.7 33.5 50.3

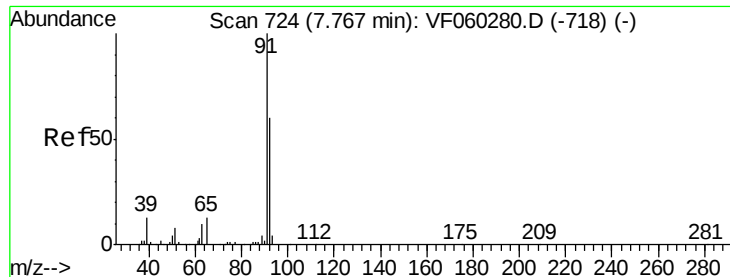


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.204 ug/l

RT: 7.75 min Scan# 722

Delta R.T. -0.02 min

Lab File: VF060338.D

Acq: 25 Sep 2018 21:27

Instrument :

MSVOA_F

ClientSampleId :

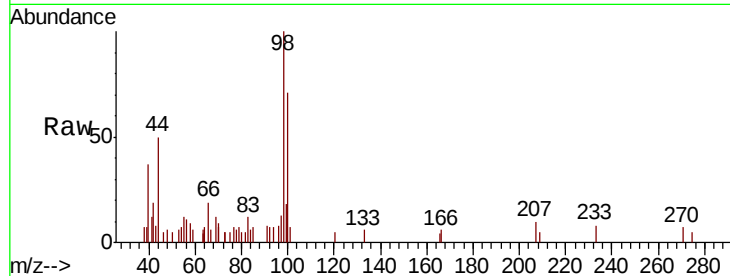
SLUDGE-A

Tgt Ion: 63 Resp: 138

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0

7.75

250

200

150

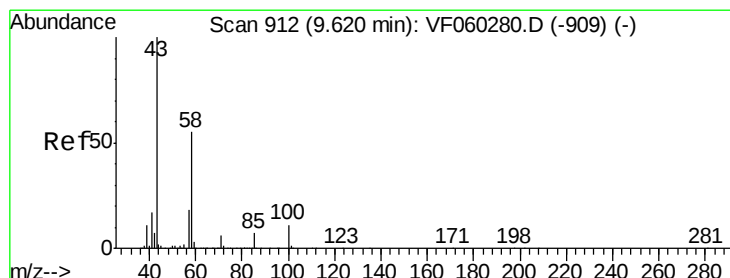
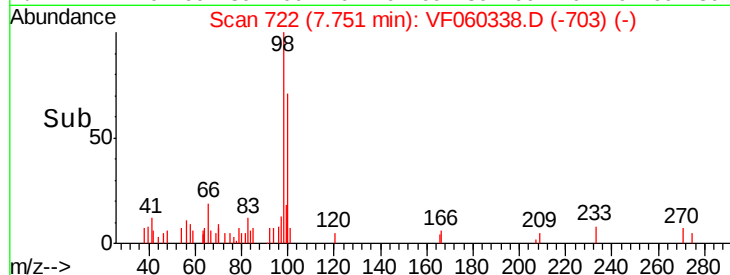
100

50

0

7.74 7.76 7.78

Time-->



#59

2-Hexanone

Concen: 6.150 ug/l

RT: 9.61 min Scan# 911

Delta R.T. -0.01 min

Lab File: VF060338.D

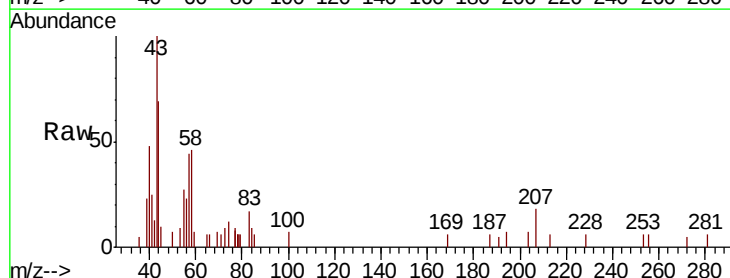
Acq: 25 Sep 2018 21:27

Tgt Ion: 43 Resp: 4238

Ion Ratio Lower Upper

43 100

58 45.8 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.61

2000

1500

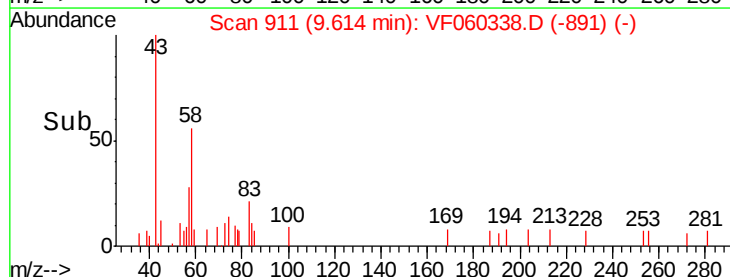
1000

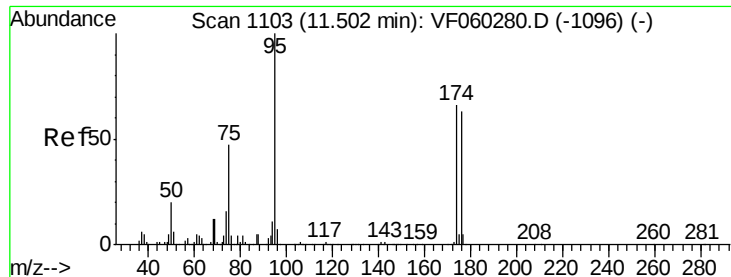
500

0

9.55 9.60 9.65 9.70

Time-->

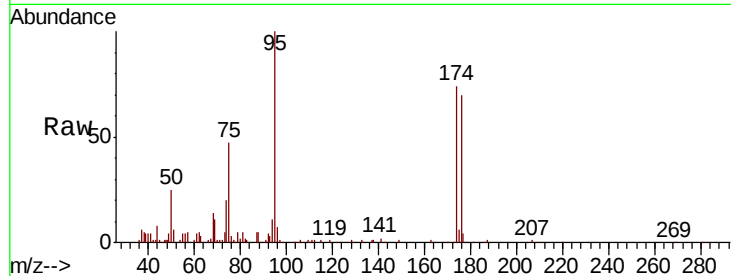




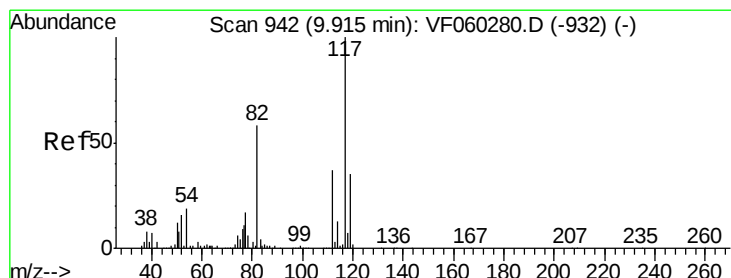
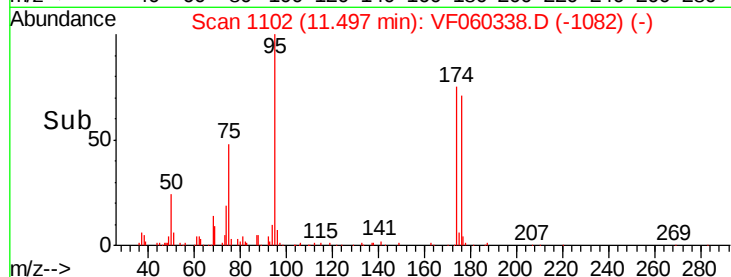
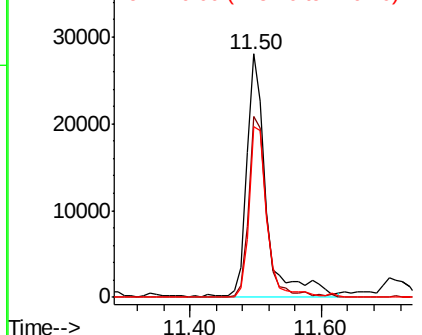
#62
4-Bromofluorobenzene
Concen: 29.832 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

Tgt Ion: 95 Resp: 59162
Ion Ratio Lower Upper
95 100
174 74.4 0.0 131.2
176 70.3 0.0 126.6

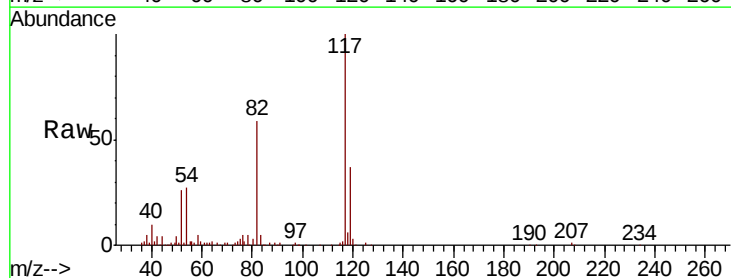


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

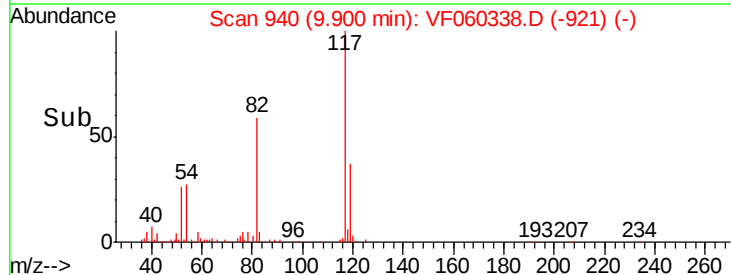
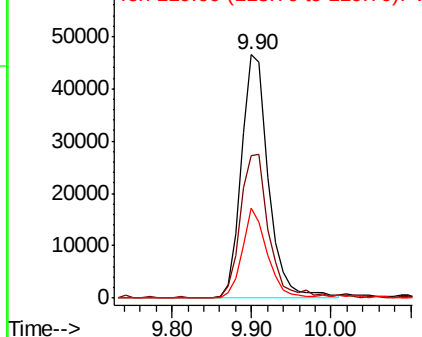


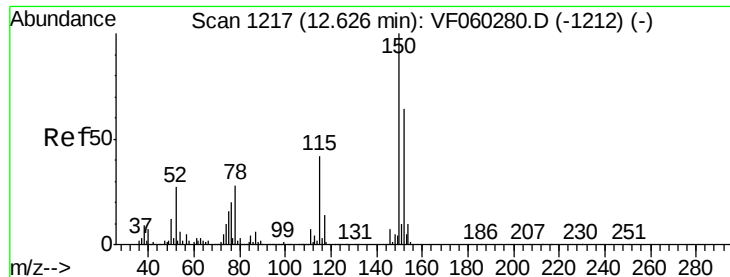
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 117 Resp: 109299
Ion Ratio Lower Upper
117 100
82 58.6 46.2 69.2
119 36.8 27.8 41.6



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



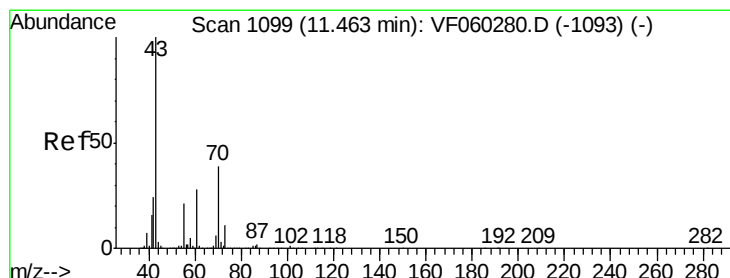
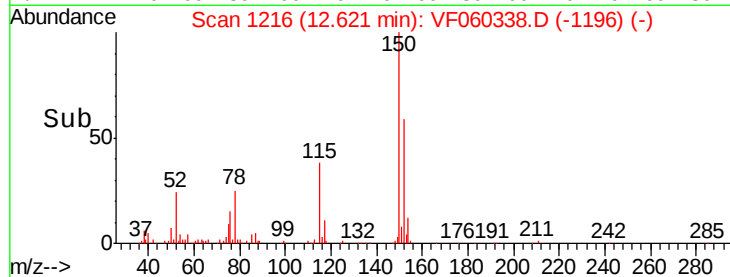
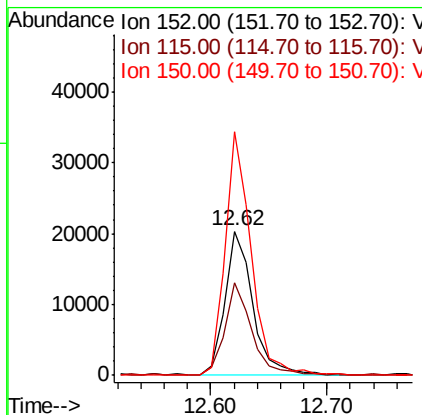
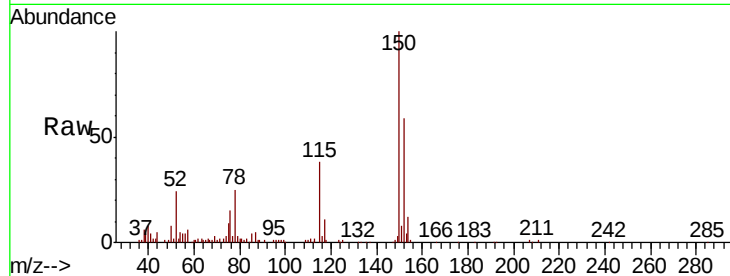


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

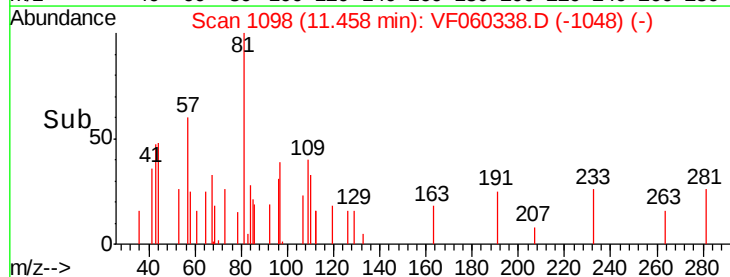
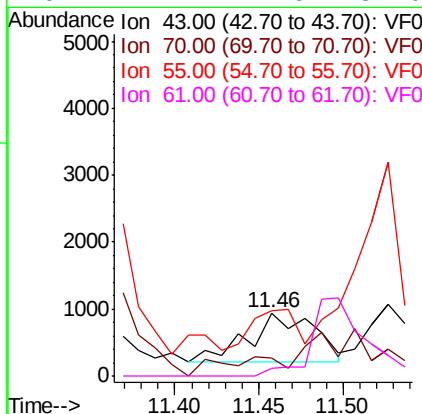
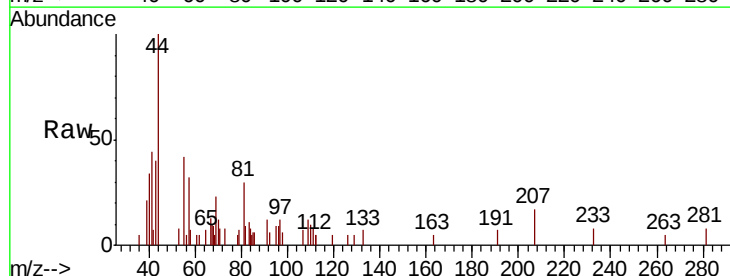
Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.6	97.8
150	169.3	0.0	314.2

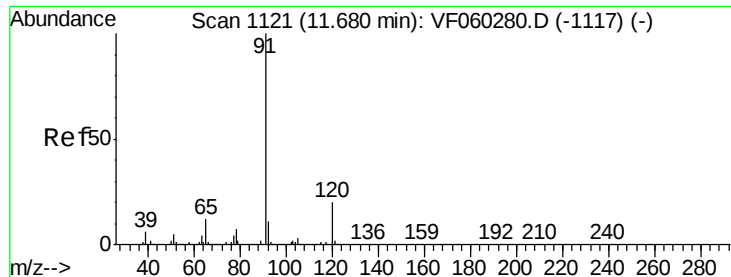


#74

N-ethyl acetate
Concen: 3.078 ug/l
RT: 11.46 min Scan# 1098
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion	Ratio	Lower	Upper
43	100		
70	29.3	31.4	47.2#
55	104.5	16.8	25.2#
61	12.1	22.6	34.0#

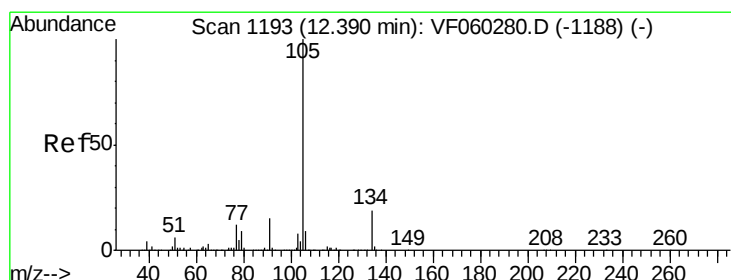
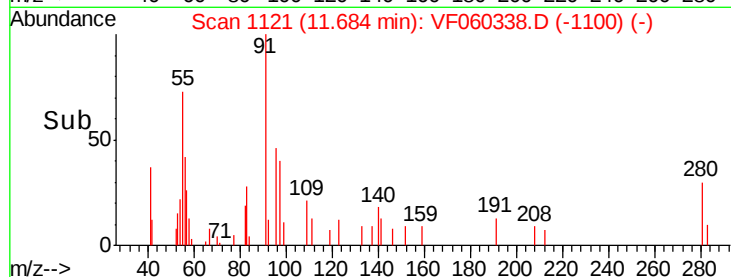
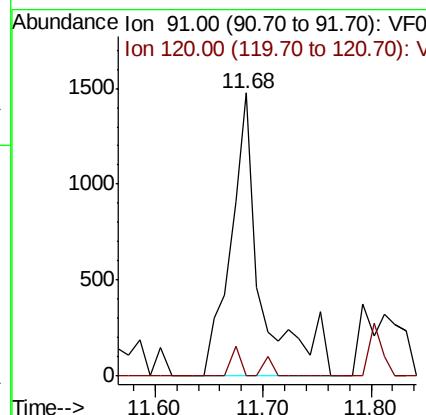
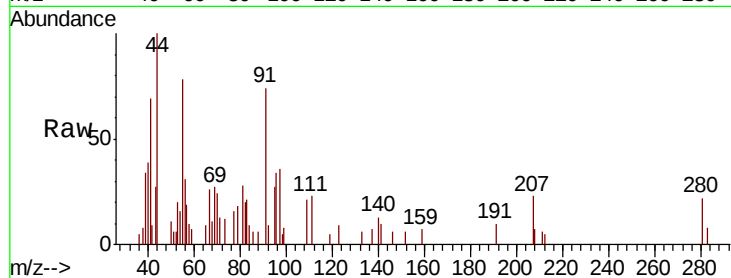




#78
n-propylbenzene
Concen: Below Cal
RT: 11.68 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

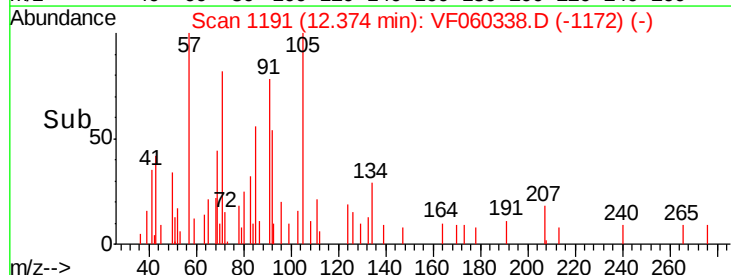
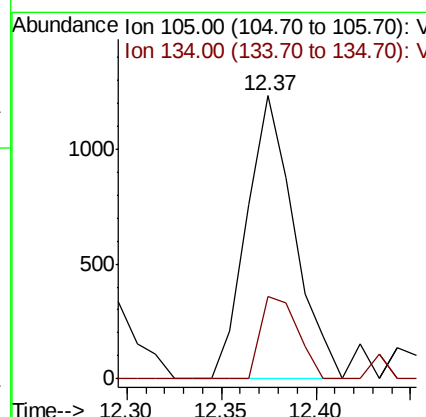
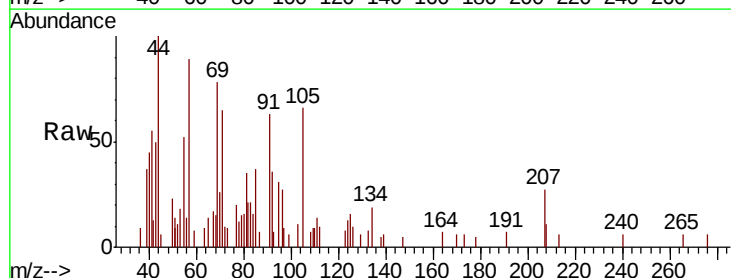
Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

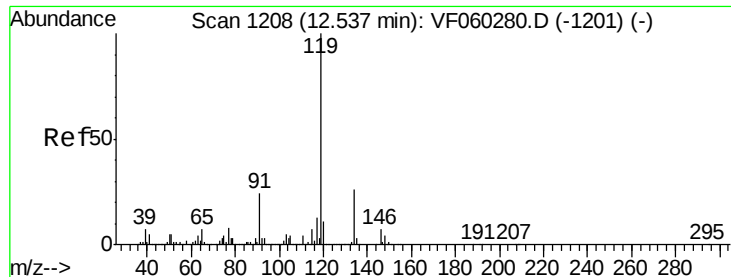
Tgt Ion: 91 Resp: 2876
Ion Ratio Lower Upper
91 100
120 0.0 10.0 29.8#



#85
sec-Butylbenzene
Concen: Below Cal
RT: 12.37 min Scan# 1191
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 105 Resp: 2148
Ion Ratio Lower Upper
105 100
134 28.9 9.6 28.6#

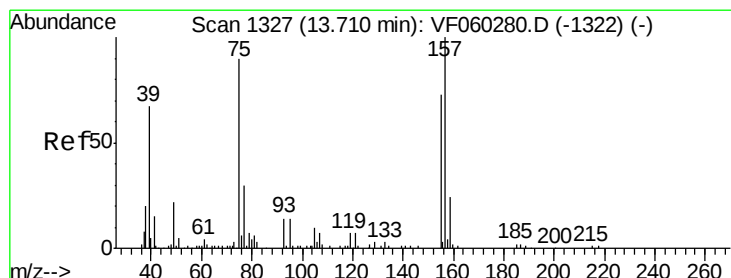
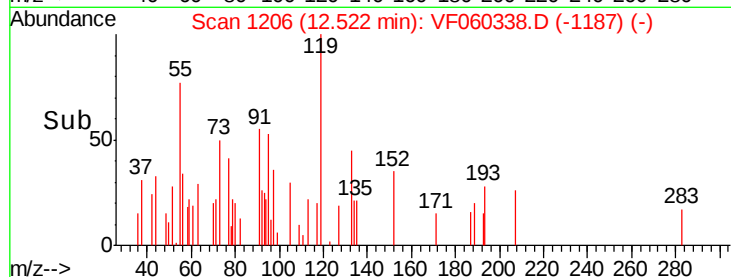
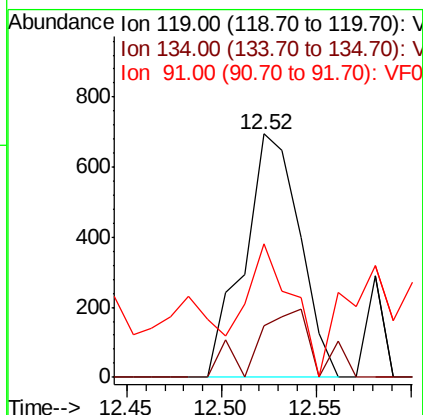
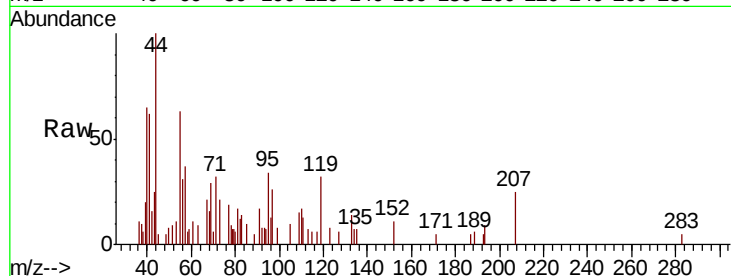




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 12.52 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

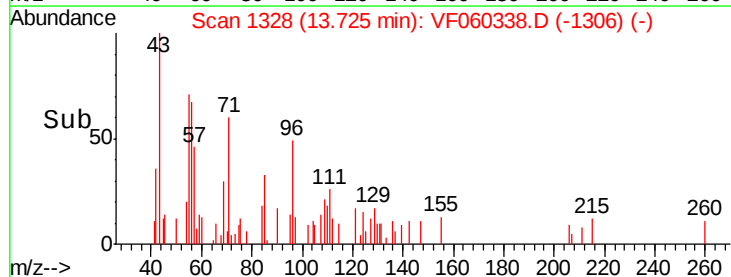
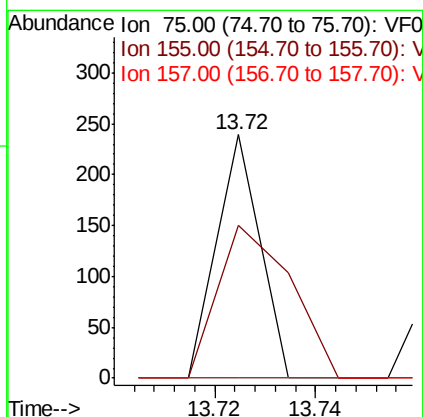
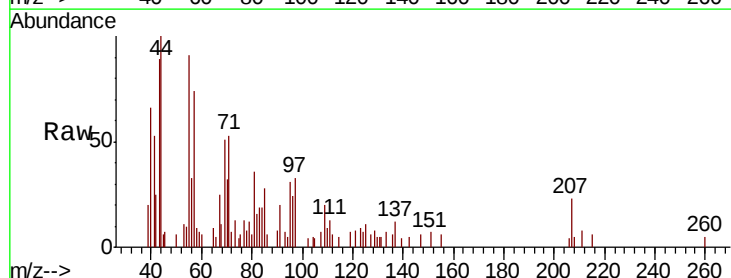
Instrument :
MSVOA_F
ClientSampleId :
SLUDGE-A

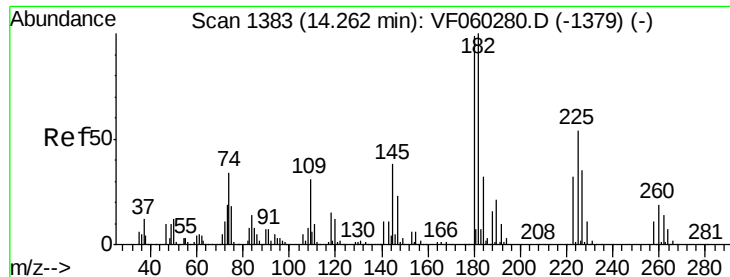
Tgt Ion: 119 Resp: 1420
Ion Ratio Lower Upper
119 100
134 21.2 12.9 38.7
91 54.7 11.9 35.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.396 ug/l
RT: 13.72 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VF060338.D
Acq: 25 Sep 2018 21:27

Tgt Ion: 75 Resp: 141
Ion Ratio Lower Upper
75 100
155 62.8 41.9 125.7
157 0.0 57.4 172.0#

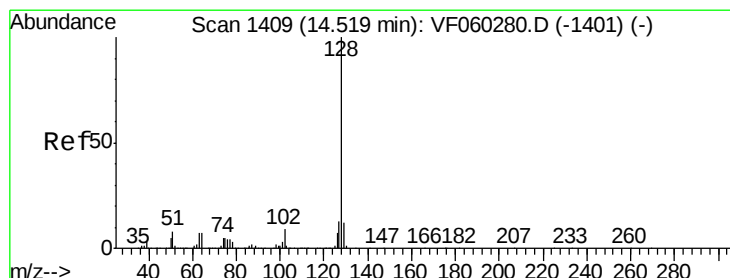
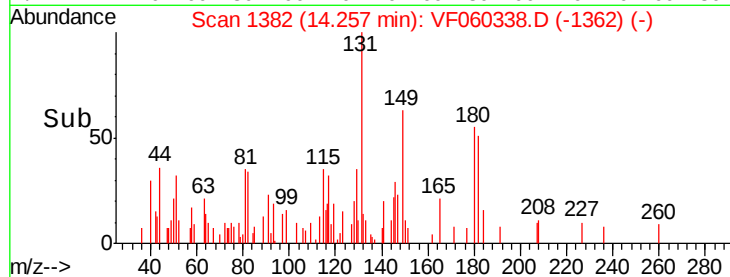
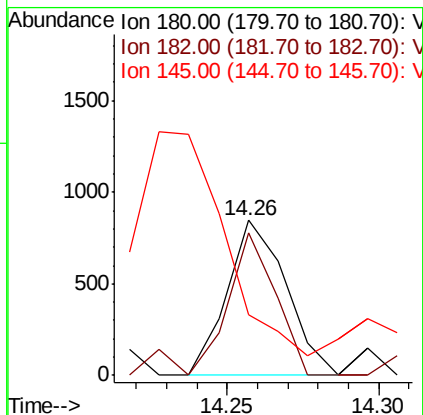
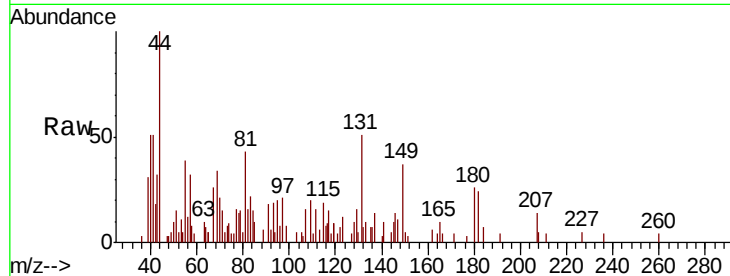




#93
 1,2,4-Trichlorobenzene
 Concen: 1.363 ug/l
 RT: 14.26 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VF060338.D
 Acq: 25 Sep 2018 21:27

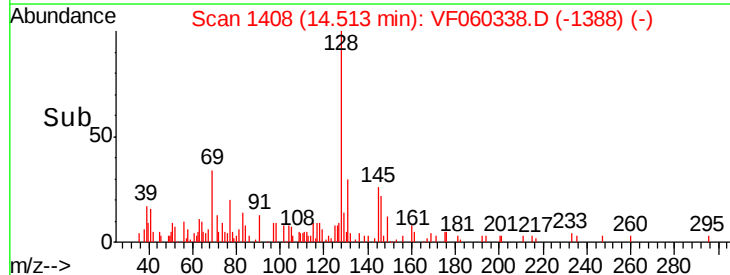
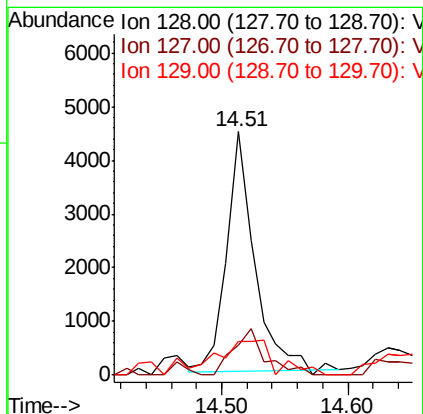
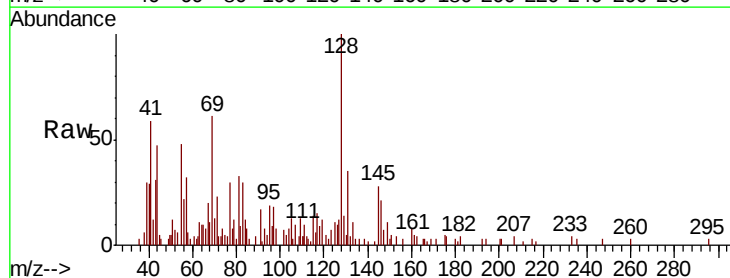
Instrument :
 MSVOA_F
 ClientSampleId :
 SLUDGE-A

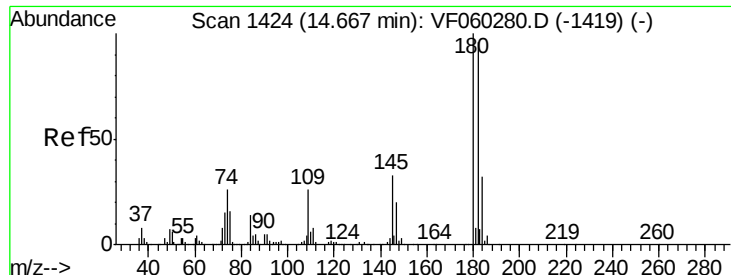
Tgt Ion:180 Resp: 1155
 Ion Ratio Lower Upper
 180 100
 182 91.7 50.3 151.0
 145 39.5 18.9 56.9



#95
 Naphthalene
 Concen: 4.590 ug/l
 RT: 14.51 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: VF060338.D
 Acq: 25 Sep 2018 21:27

Tgt Ion:128 Resp: 6819
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.1 15.1
 129 13.8 9.8 14.8

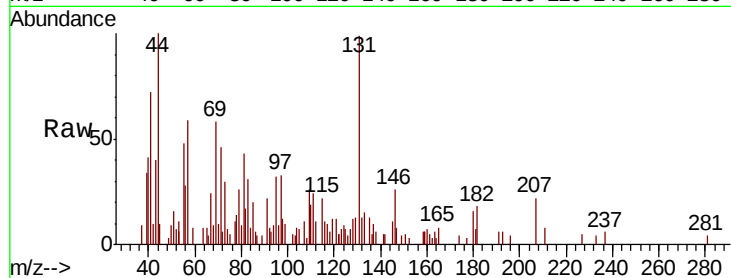




#96
 1,2,3-Trichlorobenzene
 Concen: 1.650 ug/l
 RT: 14.65 min Scan# 1422
 Delta R.T. -0.02 min
 Lab File: VF060338.D
 Acq: 25 Sep 2018 21:27

Instrument :
 MSVOA_F
 ClientSampleId :
 SLUDGE-A

Tgt Ion:180 Resp: 1292
 Ion Ratio Lower Upper
 180 100
 182 112.0 47.8 143.4
 145 68.2 16.4 49.1#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

