

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051578.D
 Acq On : 27 Sep 2018 12:38
 Operator : MD\SY
 Sample : J5069-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SLUDGE-B

Quant Time: Sep 27 13:30:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	639665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1046420	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	874843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319446	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	459389	57.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.66%	
35) Dibromofluoromethane	7.59	113	402762	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	10.09	98	1444835	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	
62) 4-Bromofluorobenzene	12.40	95	393413	38.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.18%	

Target Compounds

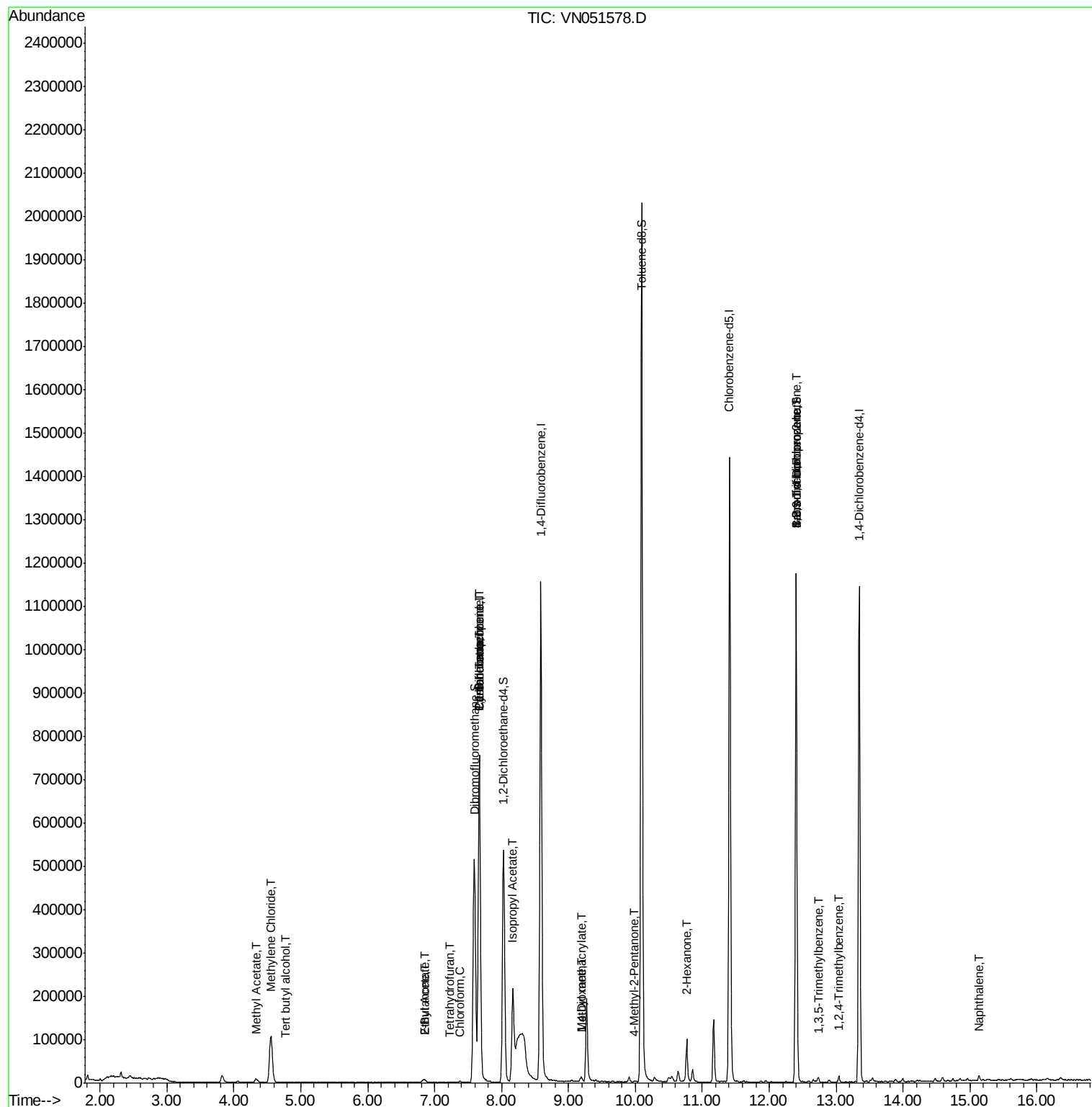
					Qvalue	
11) Tert butyl alcohol	4.79	59	94	0.208	ug/l #	78
16) Acetone	3.82	43	25170	Below	Cal #	88
18) Methyl Acetate	4.33	43	18561	3.041	ug/l #	73
20) Methylene Chloride	4.55	84	81030	10.219	ug/l	99
25) 2-Butanone	6.85	43	8015	2.922	ug/l	94
29) Tetrahydrofuran	7.23	42	1297	0.746	ug/l #	54
30) Chloroform	7.37	83	3244	0.238	ug/l	90
31) Cyclohexane	7.66	56	12694	1.006	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45630	3.766	ug/l #	49
37) Ethyl Acetate	6.85	43	8015	1.150	ug/l #	69
38) Carbon Tetrachloride	7.66	117	57287	4.520	ug/l #	18
43) Isopropyl Acetate	8.17	43	269585	21.398	ug/l #	93
48) Methyl methacrylate	9.19	41	7366	1.173	ug/l #	20
49) 1,4-Dioxane	9.19	88	65	0.844	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	1804	0.260	ug/l #	82
59) 2-Hexanone	10.77	43	14716	3.276	ug/l #	58
71) Bromoform	12.40	173	4611	0.795	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	193896	36.563	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4455	0.203	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	193896	112.430	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	8348	0.377	ug/l	98
95) Naphthalene	15.13	128	9156	8.691	ug/l	98

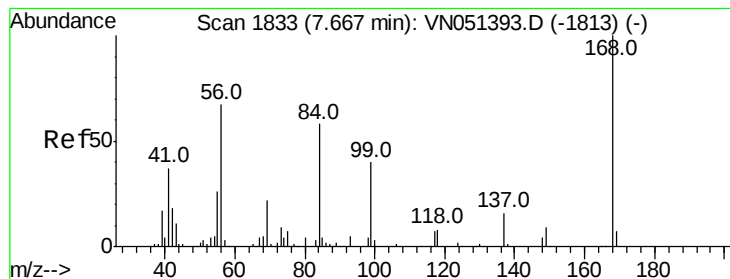
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampleId :

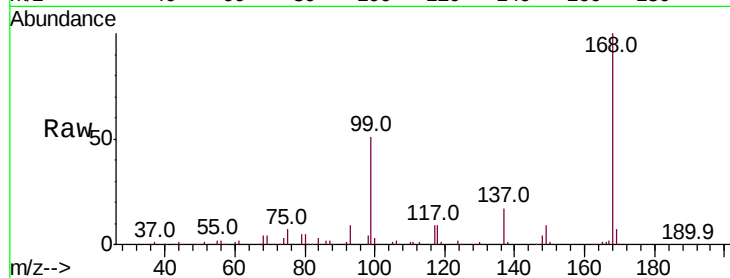
SLUDGE-B

Tot Ion:168 Resp: 639665

Ion Ratio Lower Upper

168 100

99 51.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

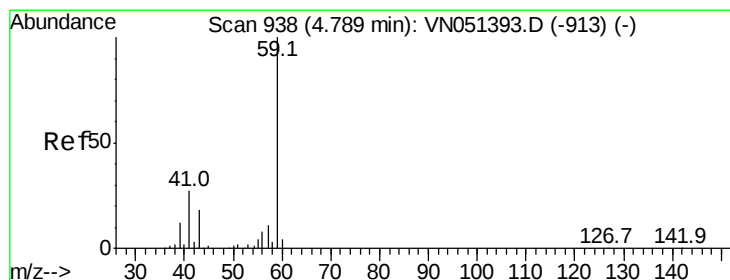
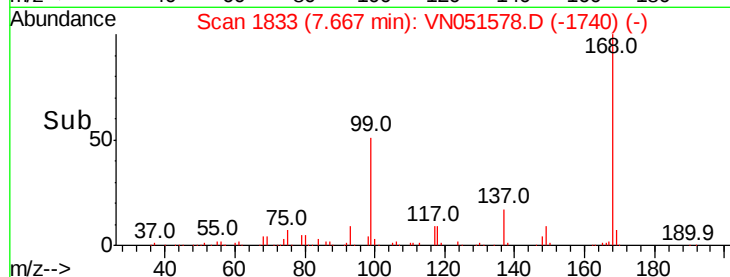
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.208 ug/l

RT: 4.79 min Scan# 937

Delta R.T. -0.00 min

Lab File: VN051578.D

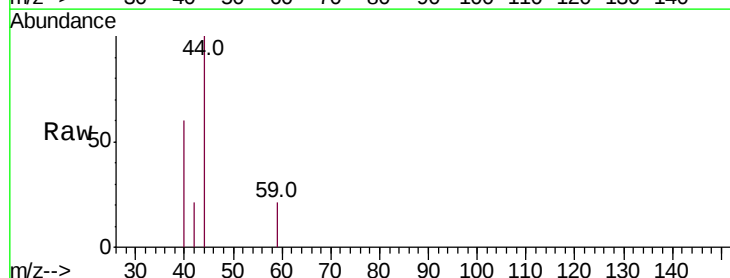
Acq: 27 Sep 2018 12:38

Tgt Ion: 59 Resp: 94

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN051393.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN051393.D (-913) (-)

4.79

200

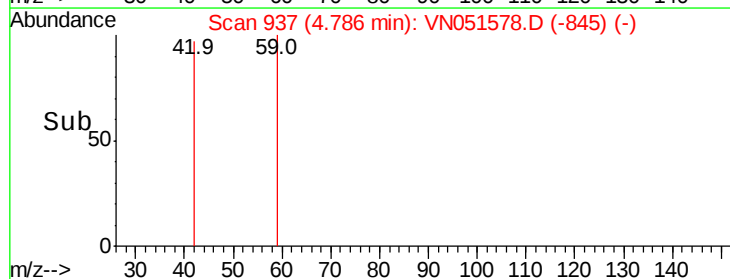
150

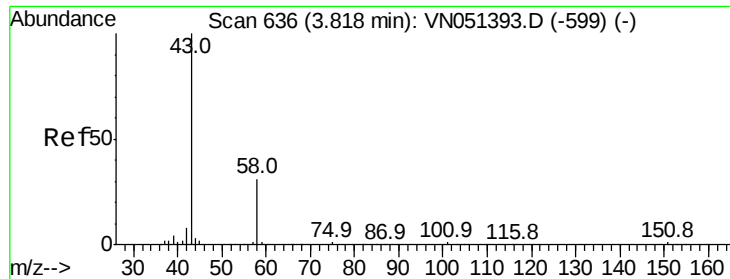
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

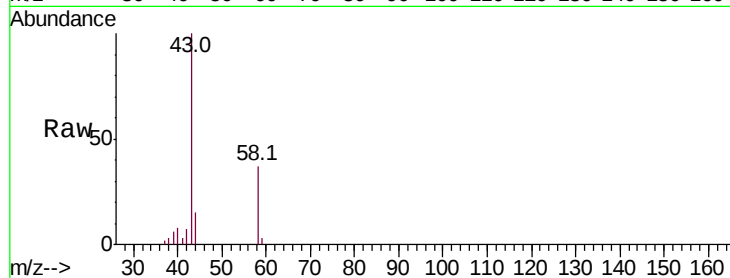
SLUDGE-B

Tot Ion: 43 Resp: 25170

Ion Ratio Lower Upper

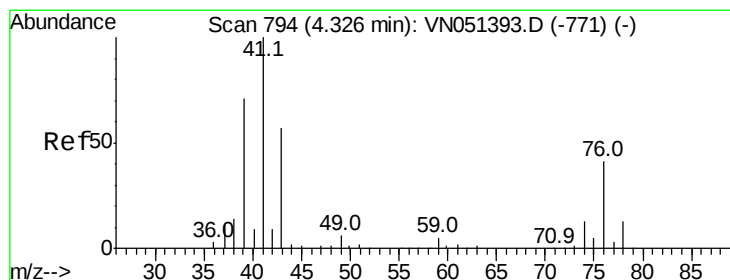
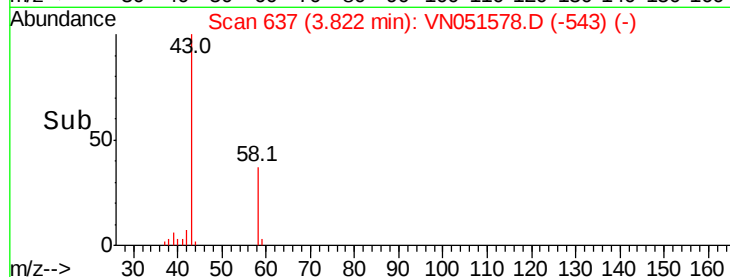
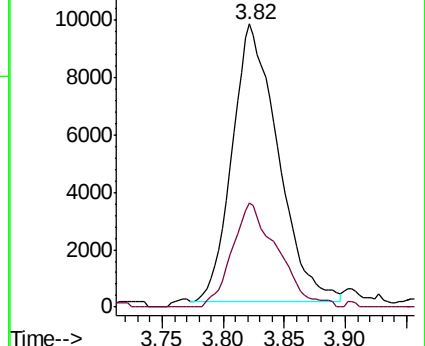
43 100

58 37.7 25.0 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 3.041 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051578.D

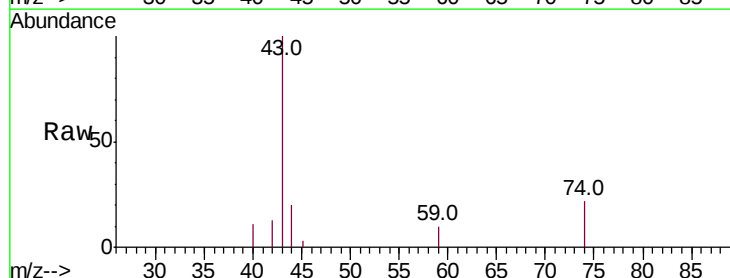
Acq: 27 Sep 2018 12:38

Tgt Ion: 43 Resp: 18561

Ion Ratio Lower Upper

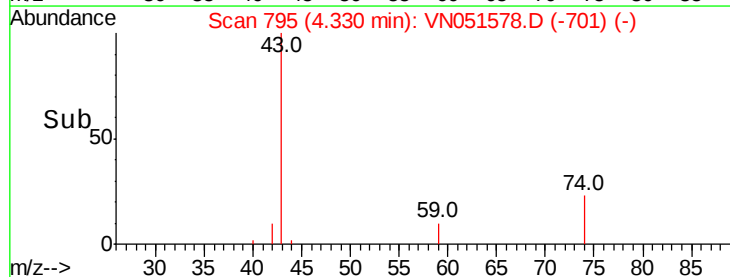
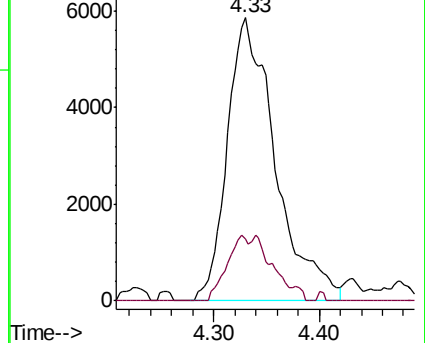
43 100

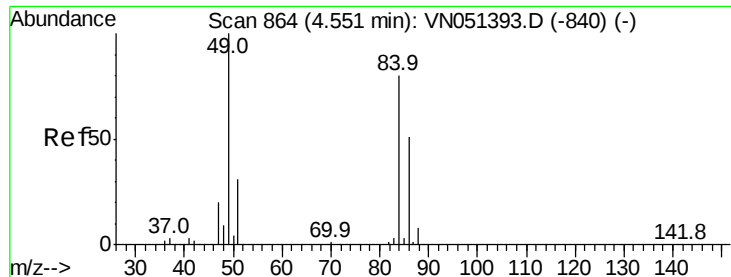
74 10.3 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

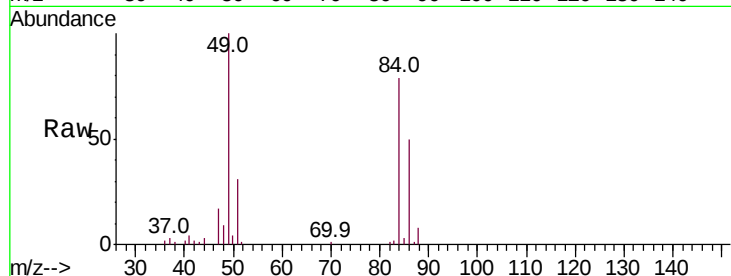




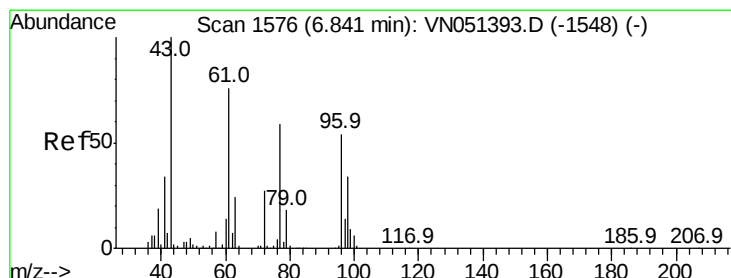
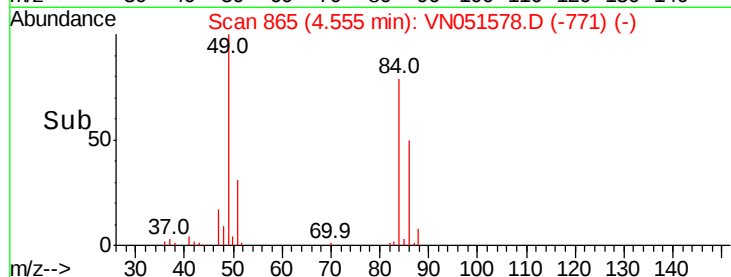
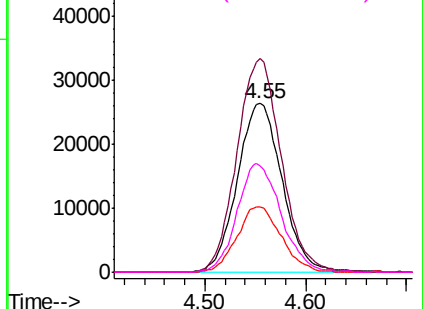
#20
Methylene Chloride
Concen: 10.219 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

Instrument :
MSVOA_N
ClientSampleID :
SLUDGE-B

Tot Ion: 84 Resp: 81030
Ion Ratio Lower Upper
84 100
49 126.5 99.9 149.9
51 38.9 31.4 47.2
86 63.0 50.9 76.3

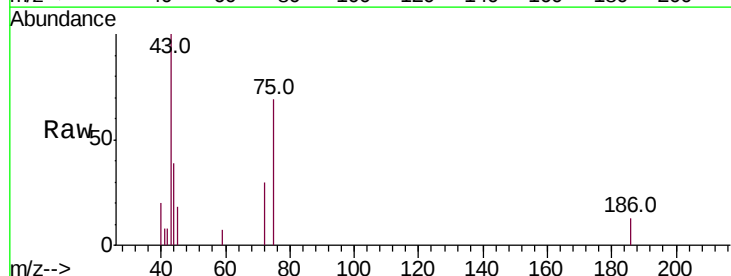


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

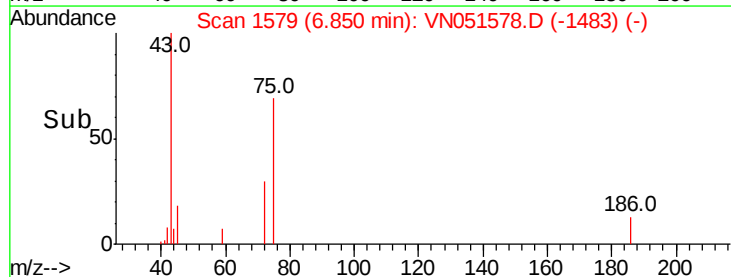
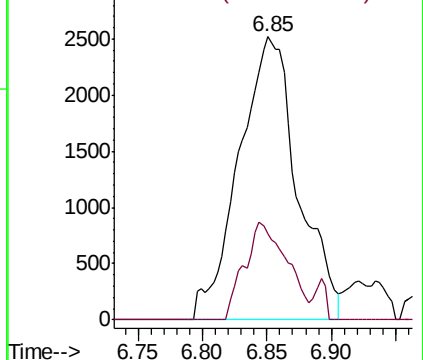


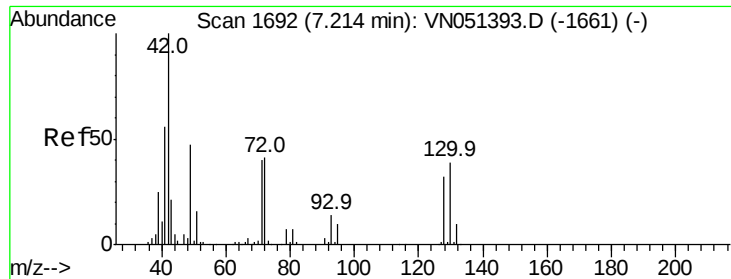
#25
2-Butanone
Concen: 2.922 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

Tgt Ion: 43 Resp: 8015
Ion Ratio Lower Upper
43 100
72 30.4 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.746 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

SLUDGE-B

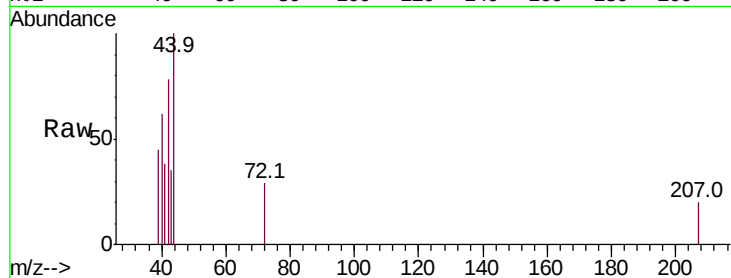
Tot Ion: 42 Resp: 1297

Ion Ratio Lower Upper

42 100

72 15.5 34.3 51.5#

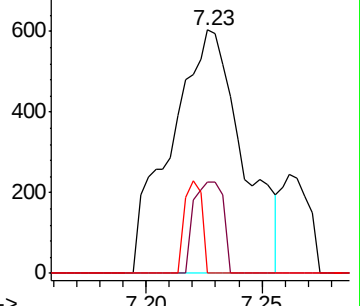
71 9.3 32.2 48.4#



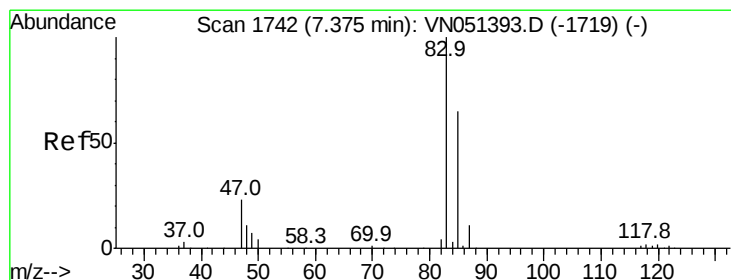
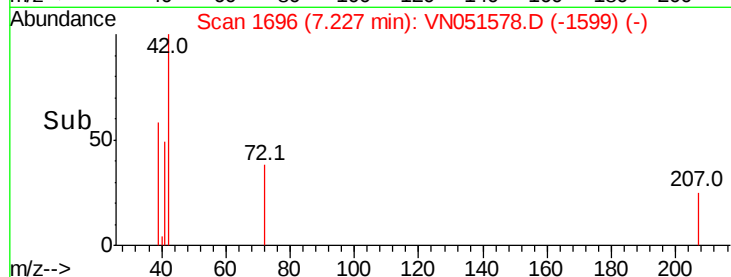
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#30

Chloroform

Concen: 0.238 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051578.D

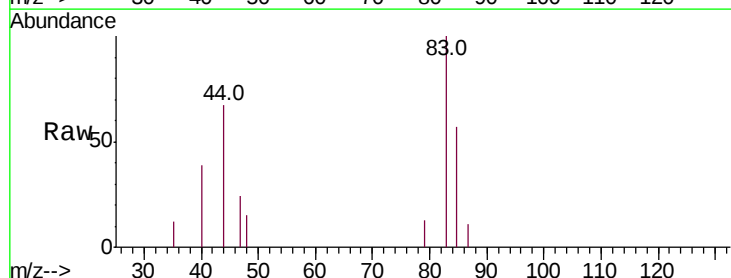
Acq: 27 Sep 2018 12:38

Tgt Ion: 83 Resp: 3244

Ion Ratio Lower Upper

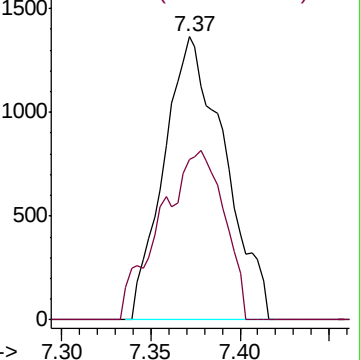
83 100

85 56.6 51.8 77.6

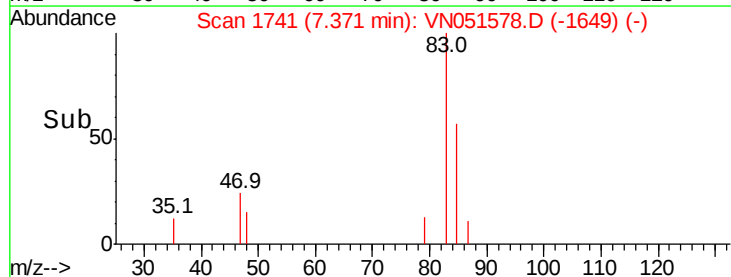


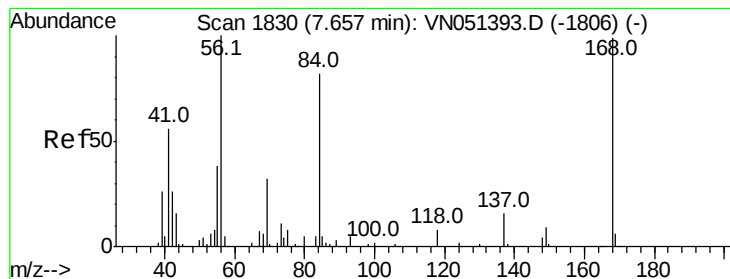
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time-->





#31

Cyclohexane

Concen: 1.006 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

SLUDGE-B

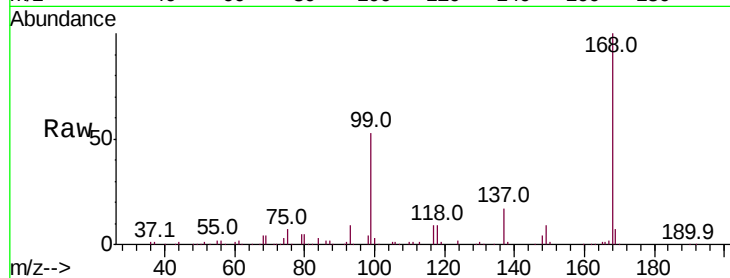
Tot Ion: 56 Resp: 12694

Ion Ratio Lower Upper

56 100

69 194.0 25.8 38.6#

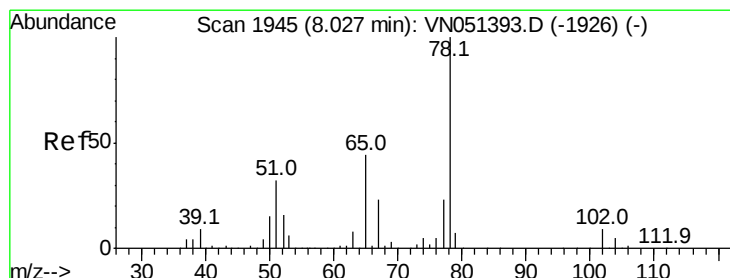
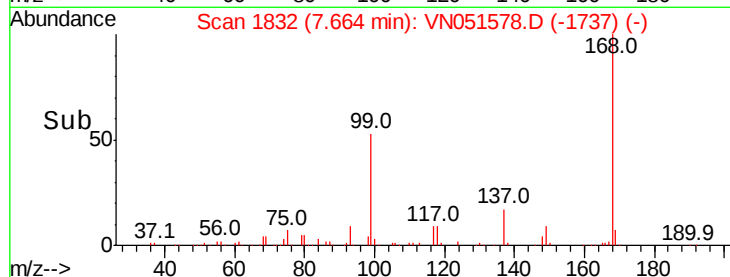
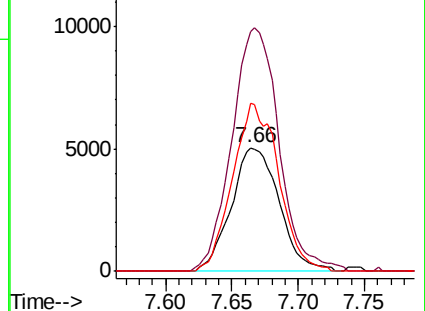
84 135.8 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN051578.D (-1737) (-)

Ion 69.00 (68.70 to 69.70): VN051578.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN051578.D (-1737) (-)



#33

1,2-Dichloroethane-d4

Concen: 57.331 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051578.D

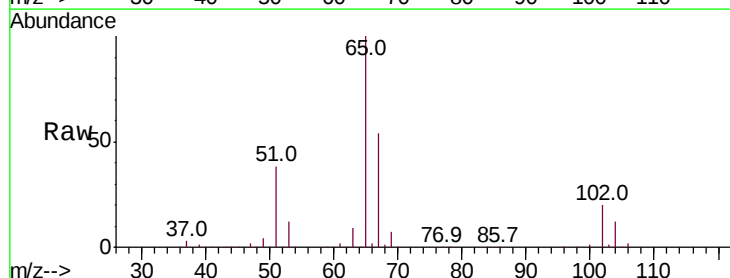
Acq: 27 Sep 2018 12:38

Tgt Ion: 65 Resp: 459389

Ion Ratio Lower Upper

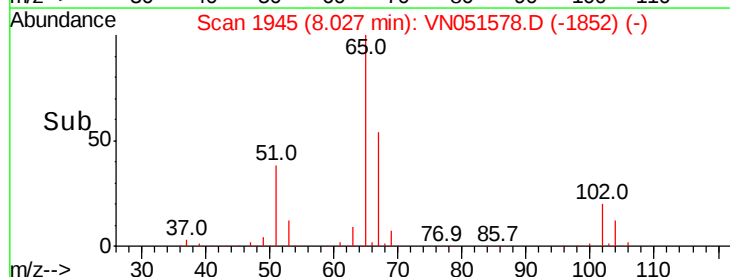
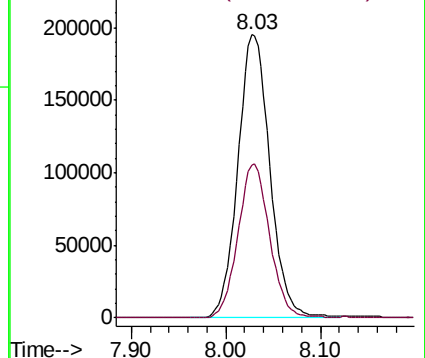
65 100

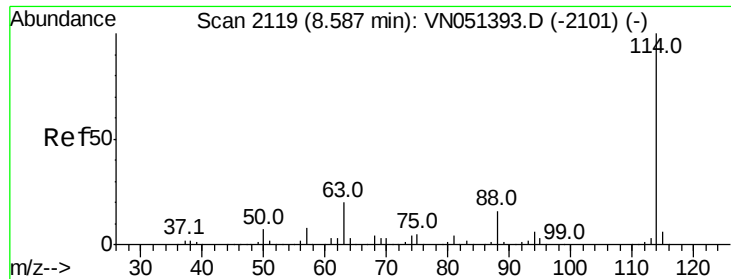
67 53.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN051578.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN051578.D (-1852) (-)



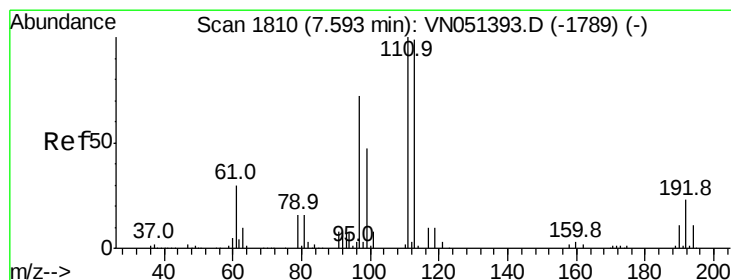
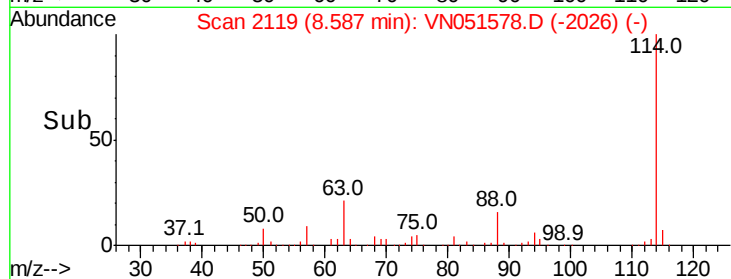
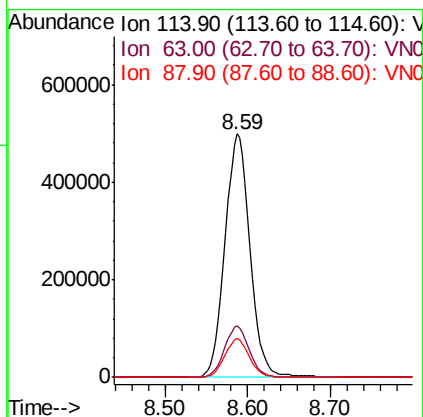
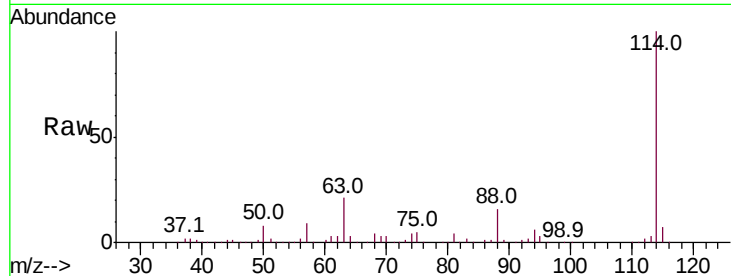


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051578.D
 Acq: 27 Sep 2018 12:38

Instrument :
 MSVOA_N
 ClientSampleId :
 SLUDGE-B

Tot Ion:114 Resp: 1046420

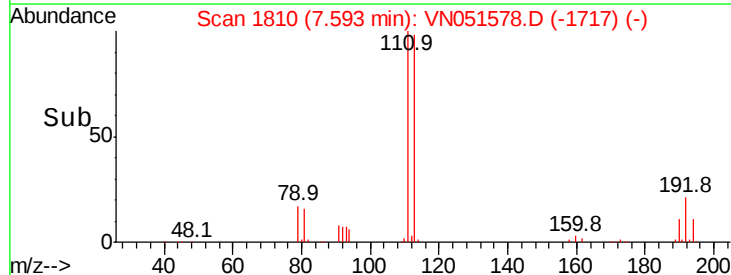
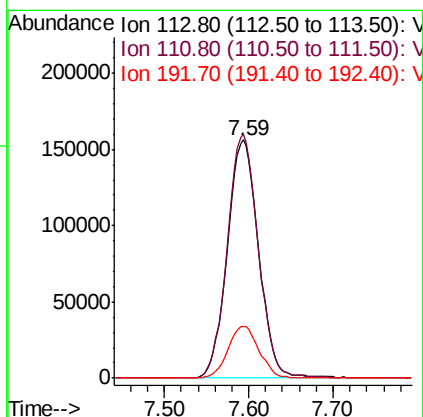
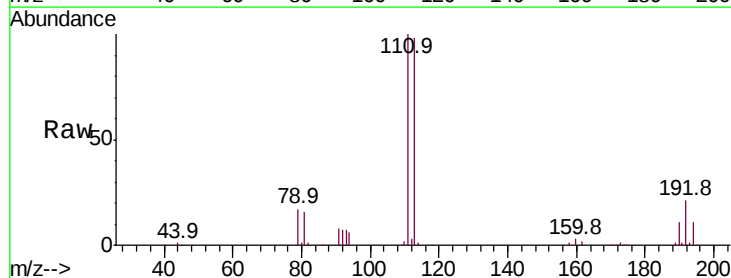
Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.2
88	15.8	0.0	31.4

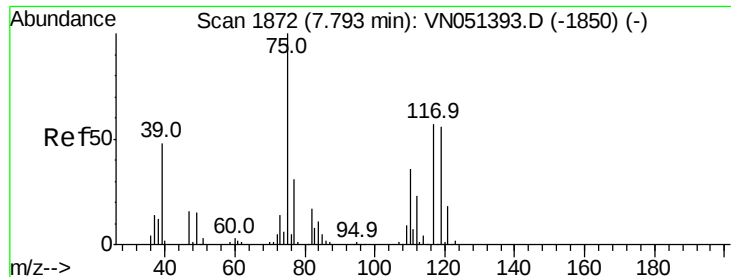


#35
 Dibromofluoromethane
 Concen: 48.133 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051578.D
 Acq: 27 Sep 2018 12:38

Tgt Ion:113 Resp: 402762

Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.6	123.8
192	21.6	18.0	27.0





#36

1,1-Dichloropropene

Concen: 3.766 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

SLUDGE-B

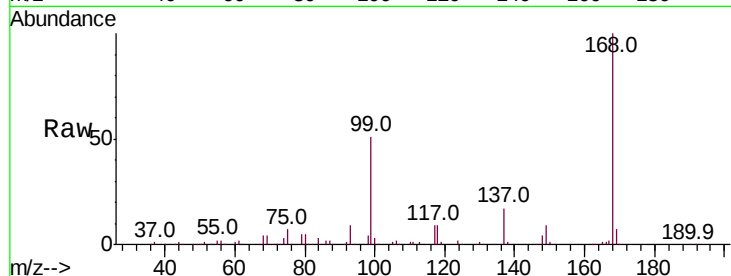
Tot Ion: 75 Resp: 45630

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

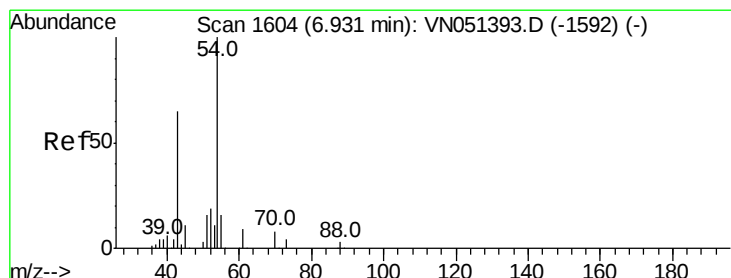
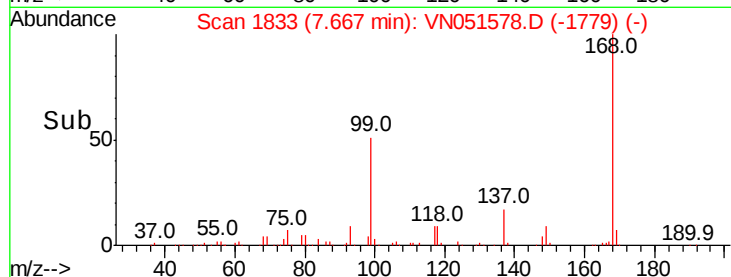
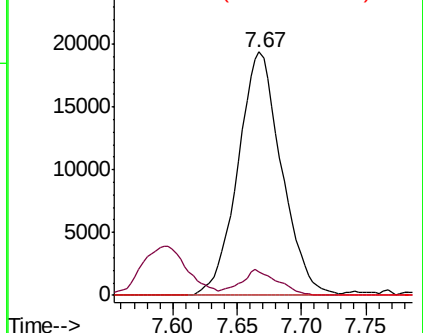
77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 1.150 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. -0.08 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

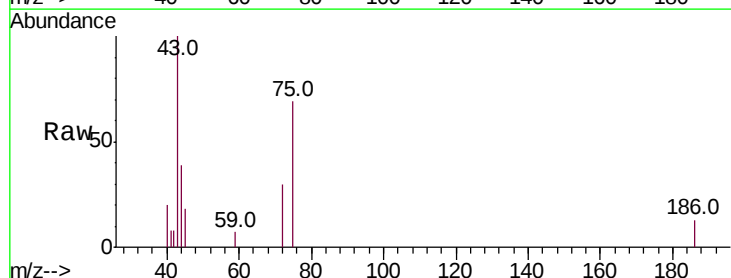
Tgt Ion: 43 Resp: 8015

Ion Ratio Lower Upper

43 100

61 0.8 11.5 17.3#

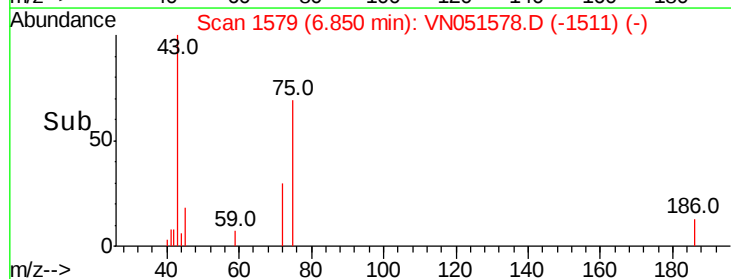
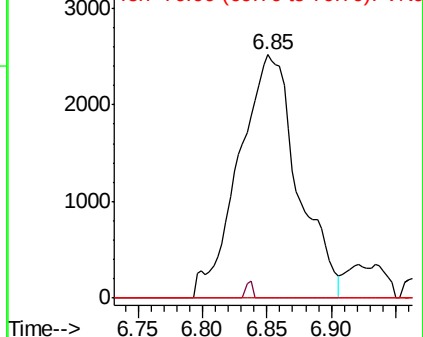
70 0.0 7.9 11.9#

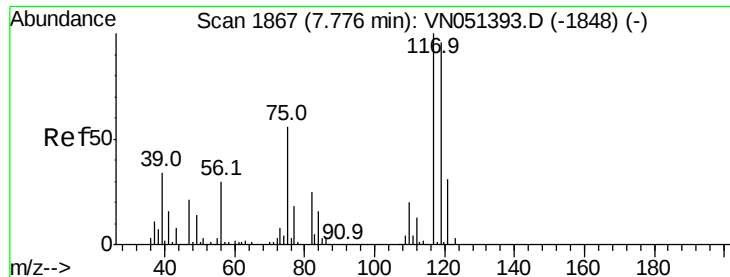


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 4.520 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampleId :

SLUDGE-B

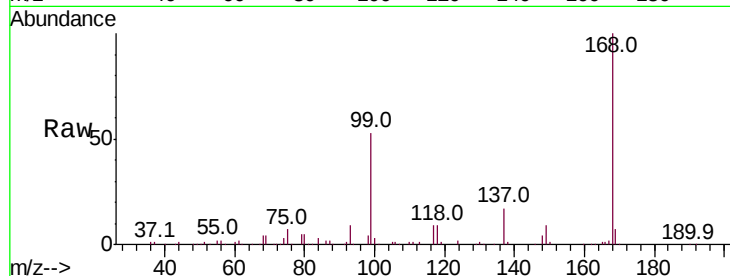
Tot Ion:117 Resp: 57287

Ion Ratio Lower Upper

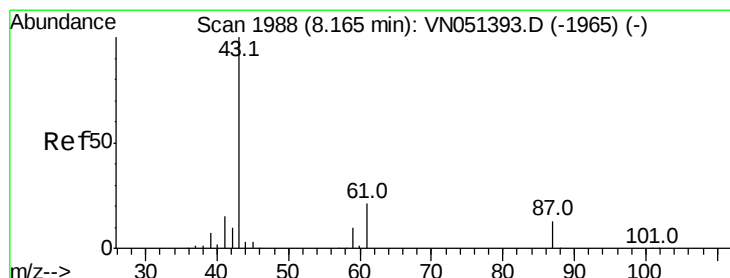
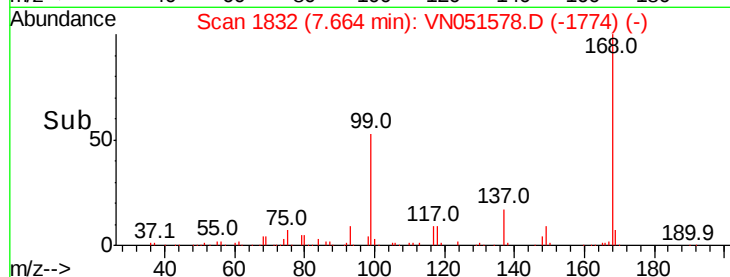
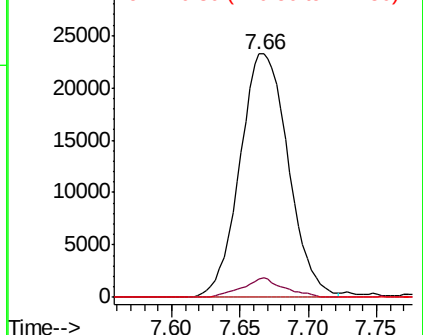
117 100

119 7.6 76.9 115.3#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 21.398 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

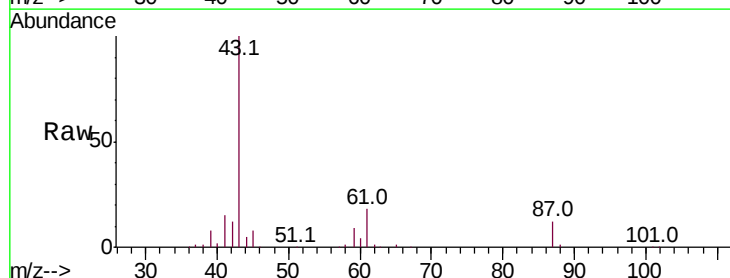
Tgt Ion: 43 Resp: 269585

Ion Ratio Lower Upper

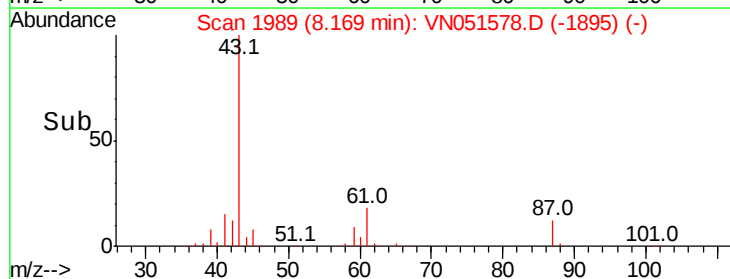
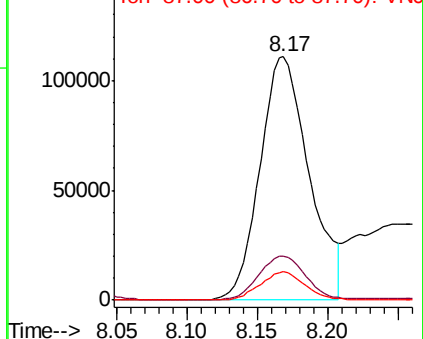
43 100

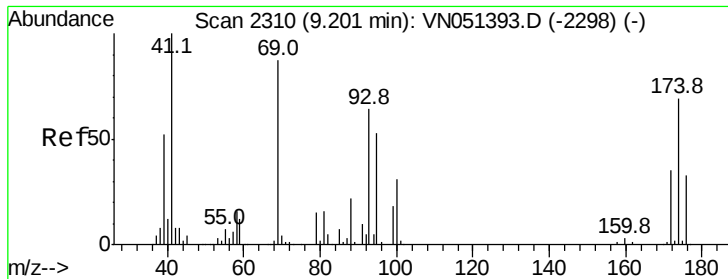
61 17.5 16.8 25.2

87 10.7 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

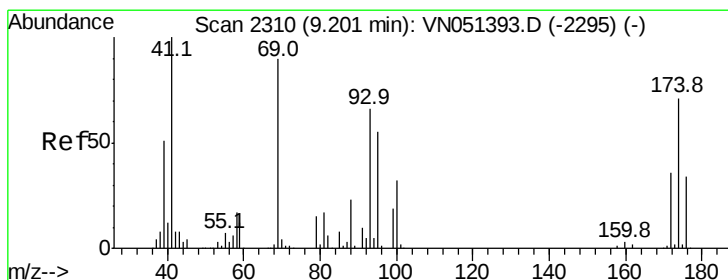
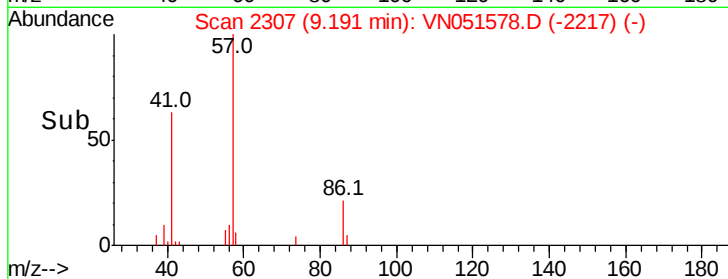
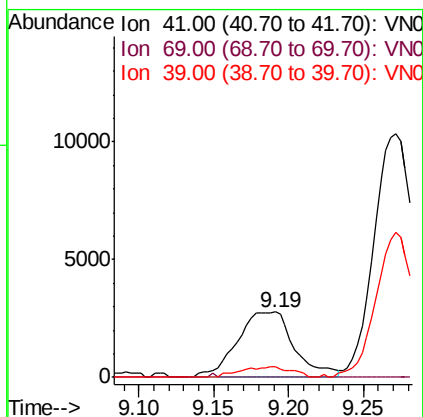
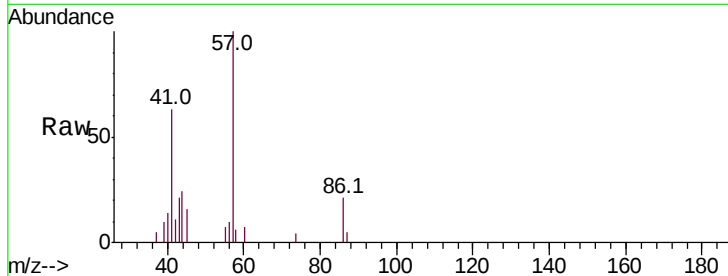




#48
Methvl methacrylate
Concen: 1.173 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

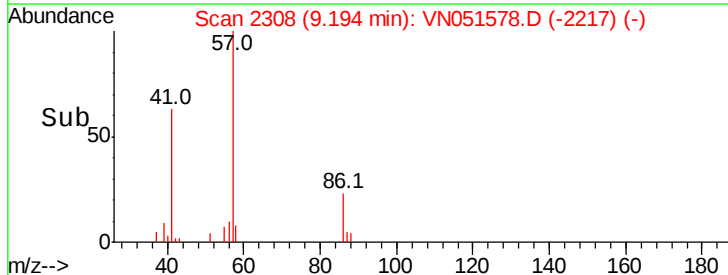
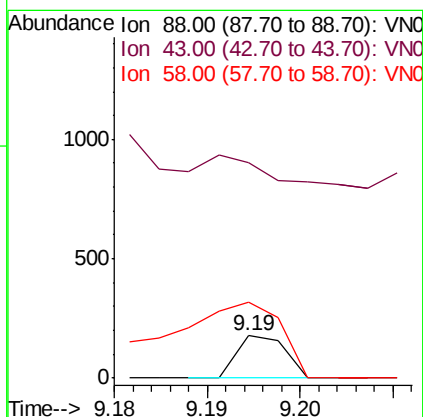
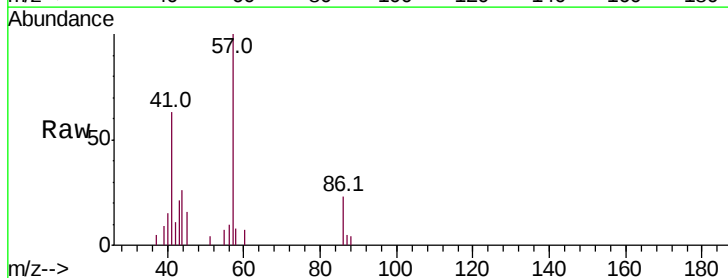
Instrument :
MSVOA_N
ClientSampled :
SLUDGE-B

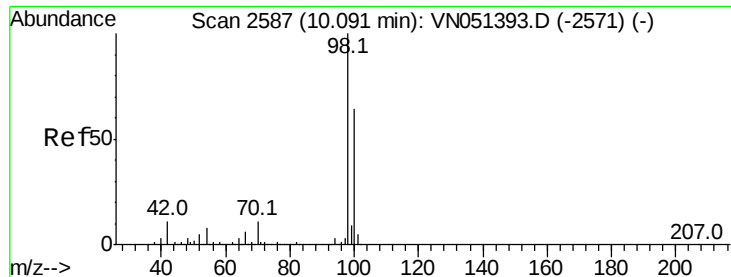
Tot Ion: 41 Resp: 7366
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 14.5 43.8 65.8#



#49
1,4-Dioxane
Concen: 0.844 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 25.9 38.9#
58 410.8 57.0 85.4#





#50

Toluene-d8

Concen: 45.853 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

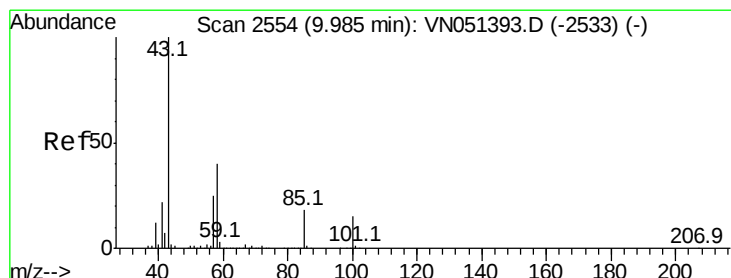
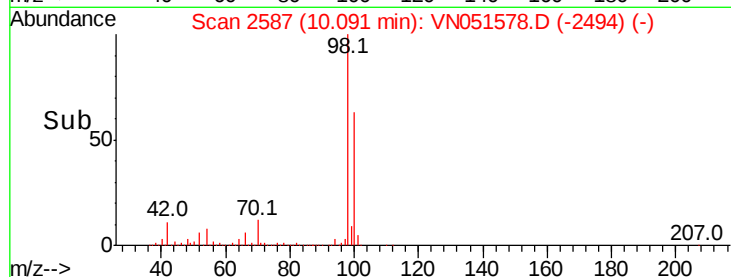
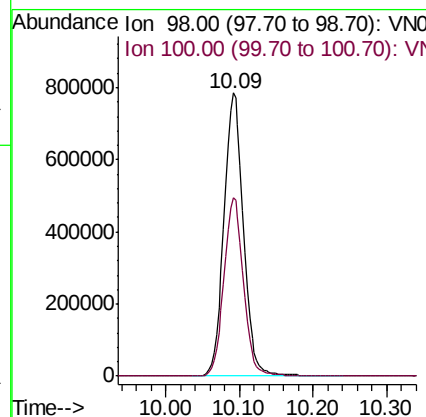
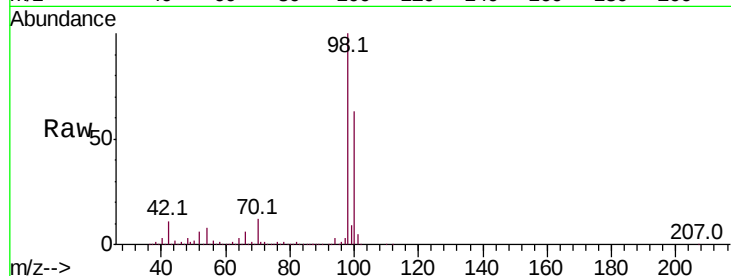
SLUDGE-B

Tot Ion: 98 Resp: 1444835

Ion Ratio Lower Upper

98 100

100 63.1 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 0.260 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051578.D

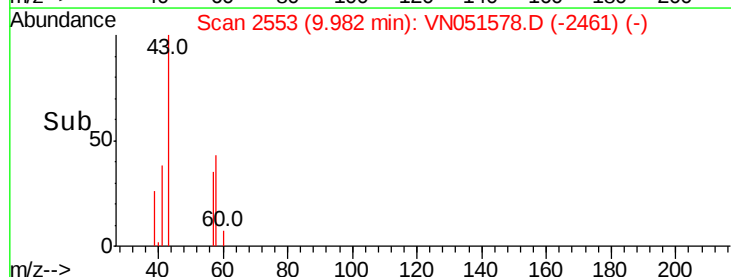
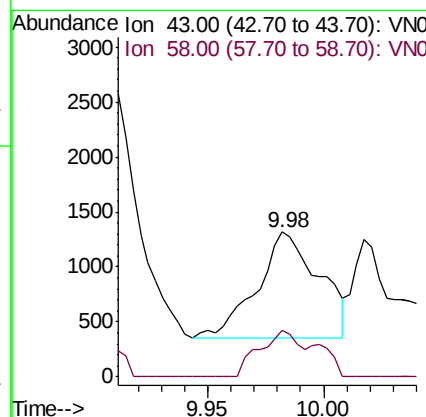
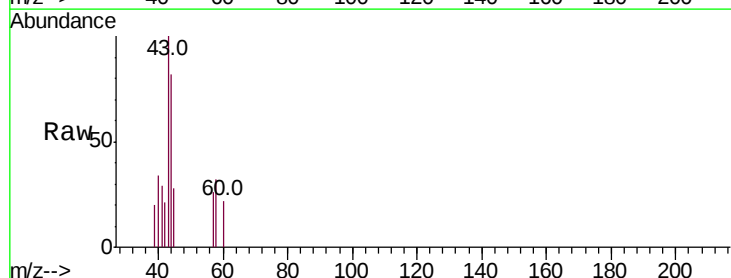
Acq: 27 Sep 2018 12:38

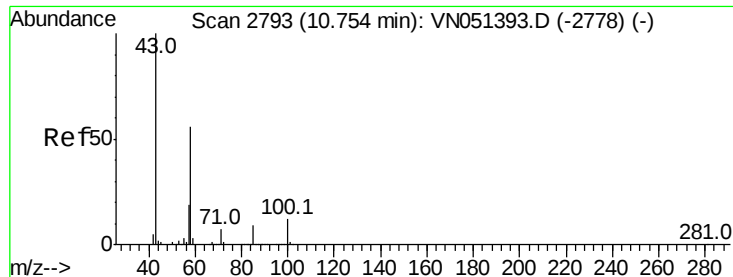
Tgt Ion: 43 Resp: 1804

Ion Ratio Lower Upper

43 100

58 28.5 31.5 47.3#

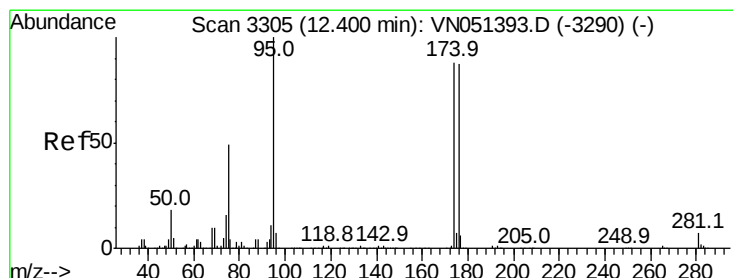
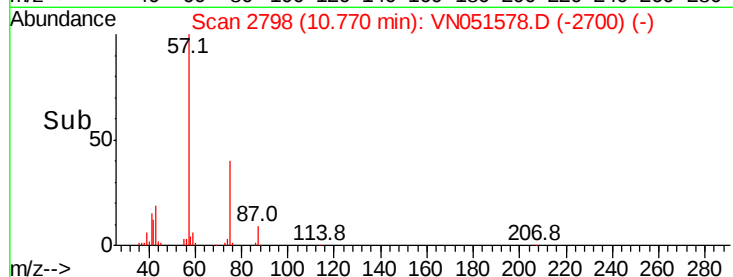
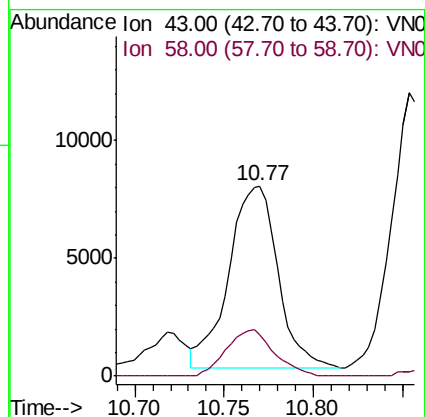
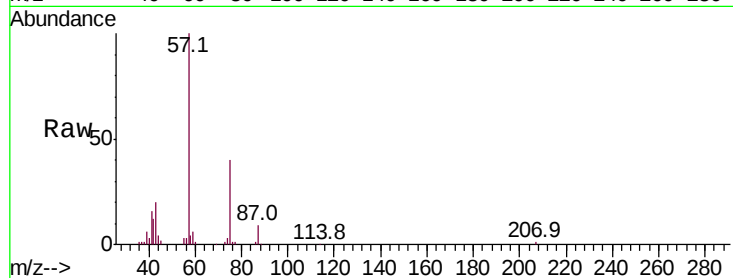




#59
2-Hexanone
Concen: 3.276 ug/l
RT: 10.77 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

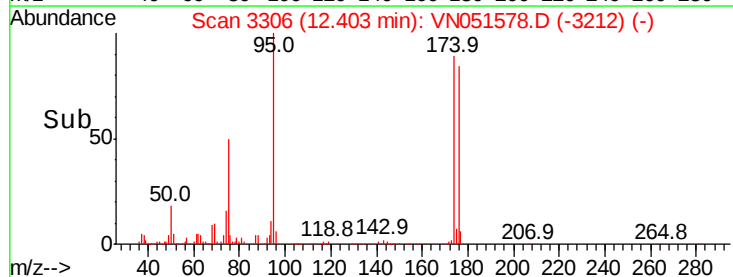
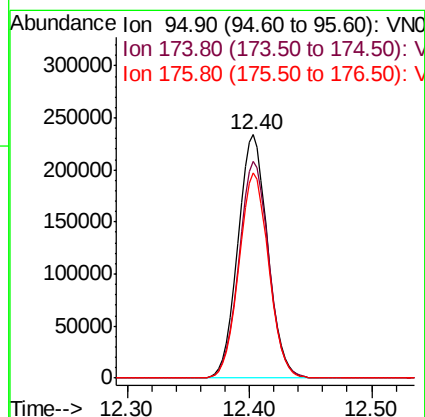
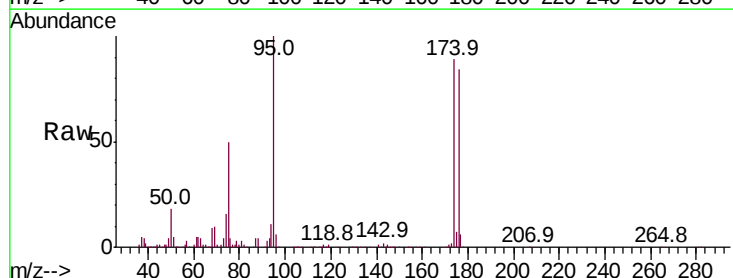
Instrument :
MSVOA_N
ClientSampled :
SLUDGE-B

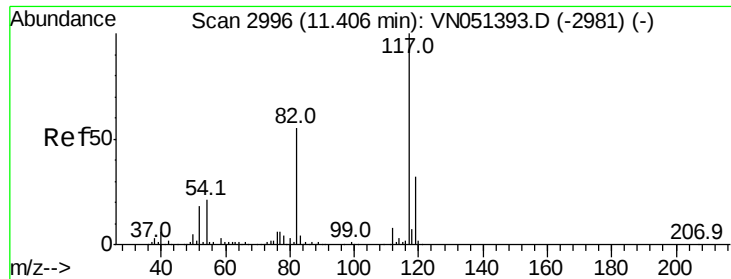
Tot Ion: 43 Resp: 14716
Ion Ratio Lower Upper
43 100
58 24.8 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.595 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

Tgt Ion: 95 Resp: 393413
Ion Ratio Lower Upper
95 100
174 89.5 0.0 181.6
176 84.5 0.0 176.4

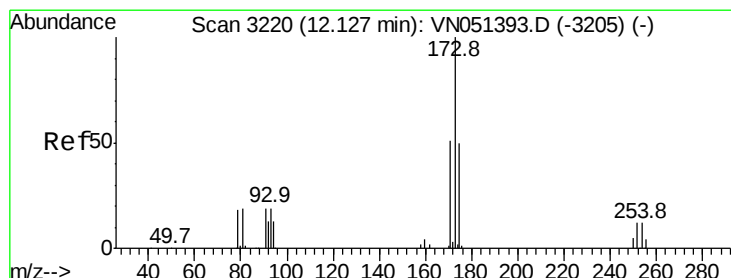
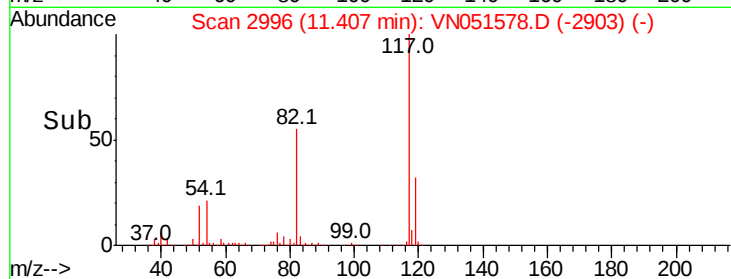
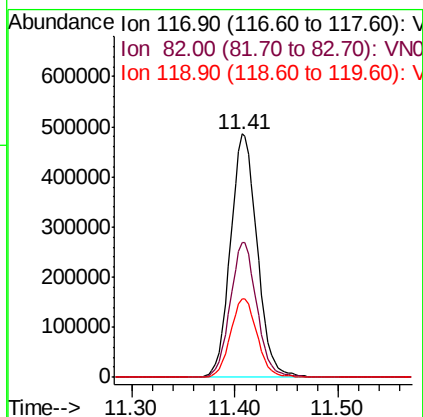
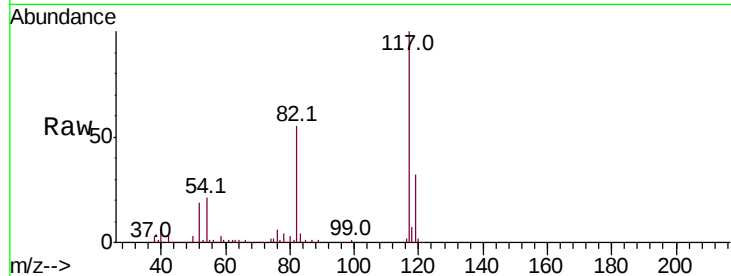




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

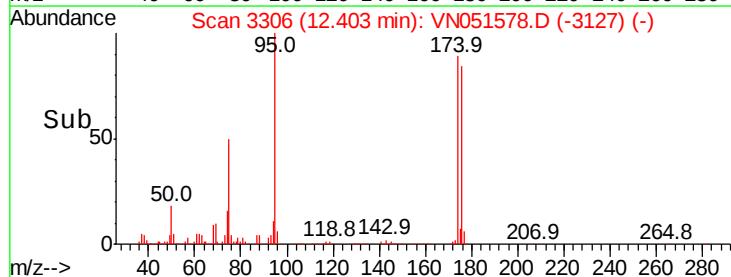
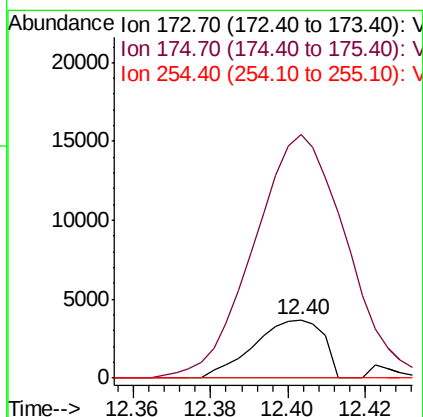
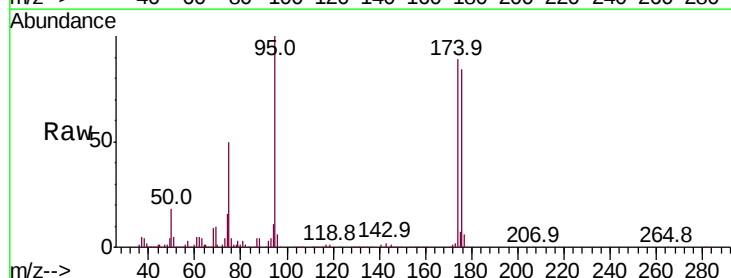
Instrument :
MSVOA_N
ClientSampleId :
SLUDGE-B

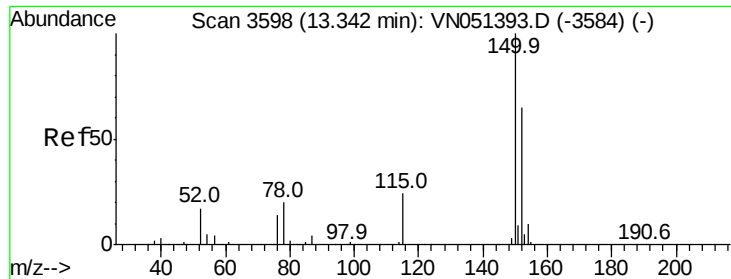
Tot Ion:117 Resp: 874843
Ion Ratio Lower Upper
117 100
82 55.5 44.2 66.2
119 32.2 25.9 38.9



#71
Bromoform
Concen: 0.795 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051578.D
Acq: 27 Sep 2018 12:38

Tgt Ion:173 Resp: 4611
Ion Ratio Lower Upper
173 100
175 469.2 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampleId :

SLUDGE-B

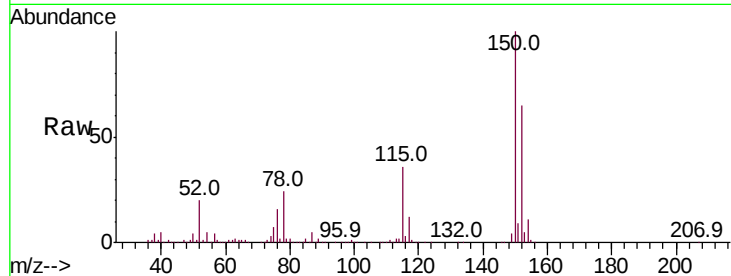
Tot Ion:152 Resp: 319446

Ion Ratio Lower Upper

152 100

115 56.1 28.3 84.9

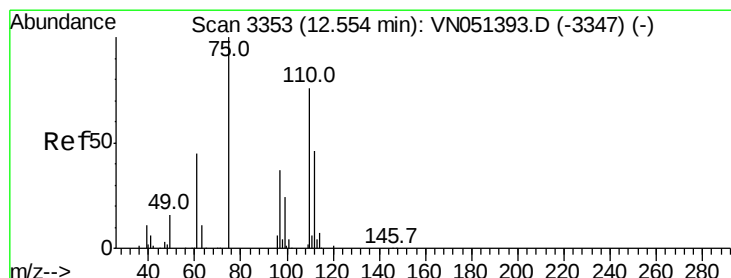
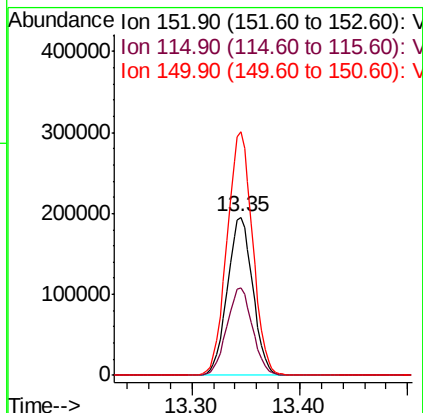
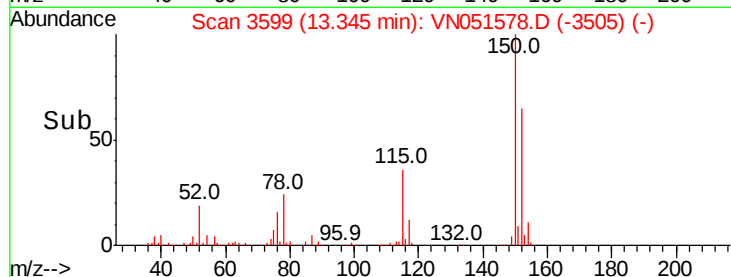
150 155.5 0.0 353.6



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: 36.563 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051578.D

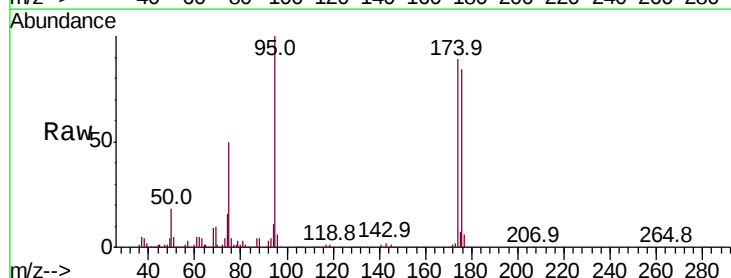
Acq: 27 Sep 2018 12:38

Tgt Ion: 75 Resp: 193896

Ion Ratio Lower Upper

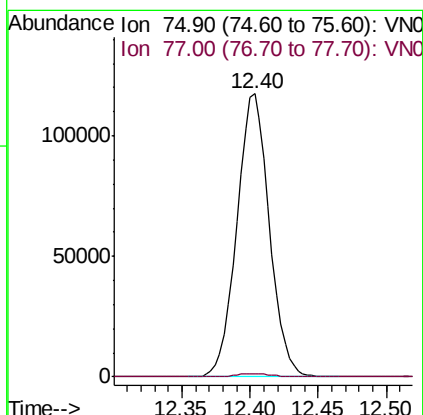
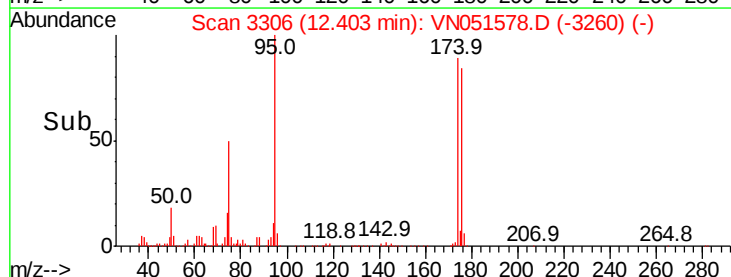
75 100

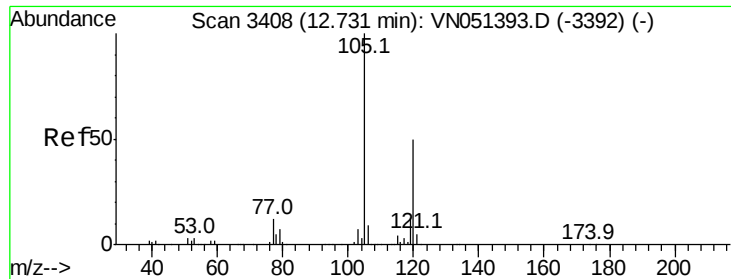
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampled :

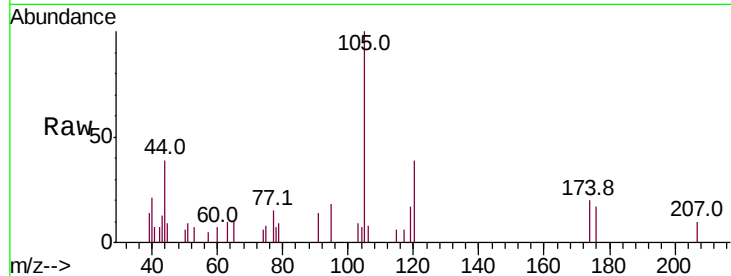
SLUDGE-B

Tot Ion:105 Resp: 4455

Ion Ratio Lower Upper

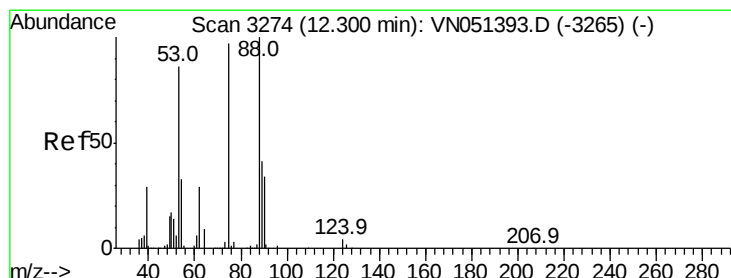
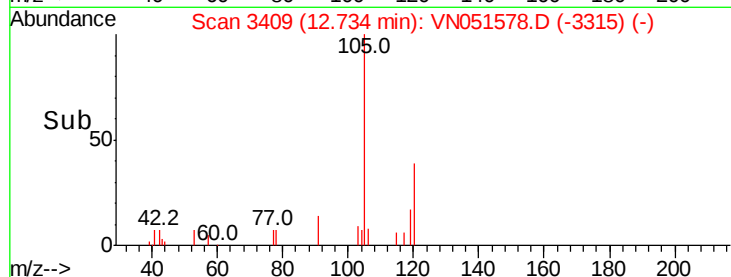
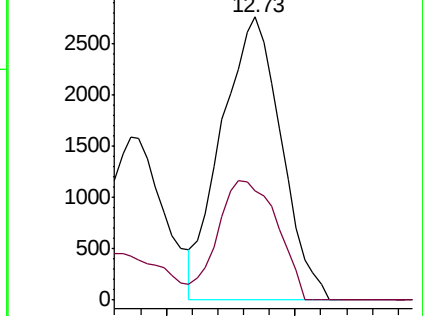
105 100

120 41.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 112.430 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

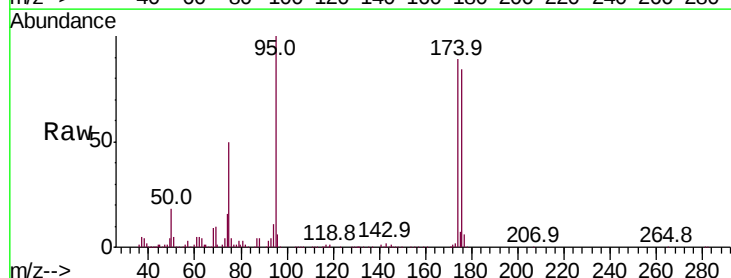
Tgt Ion: 75 Resp: 193896

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

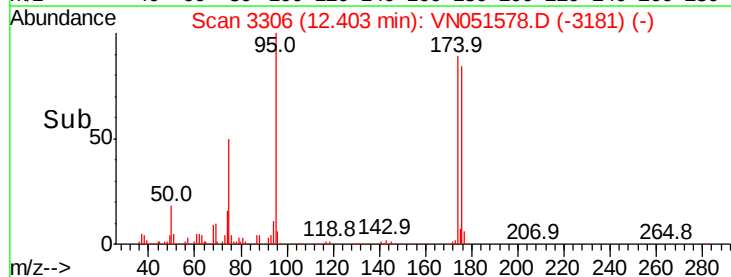
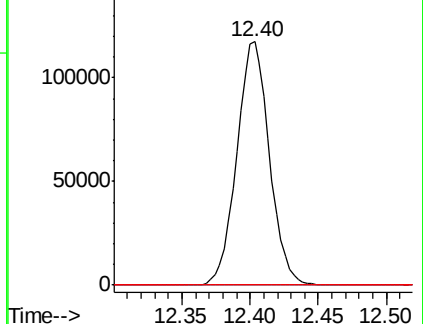
89 0.0 36.7 55.1#

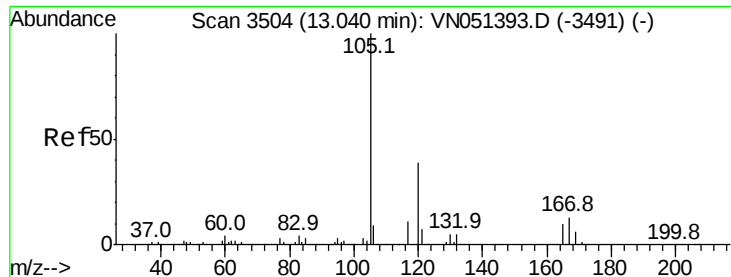


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.377 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

Instrument :

MSVOA_N

ClientSampleId :

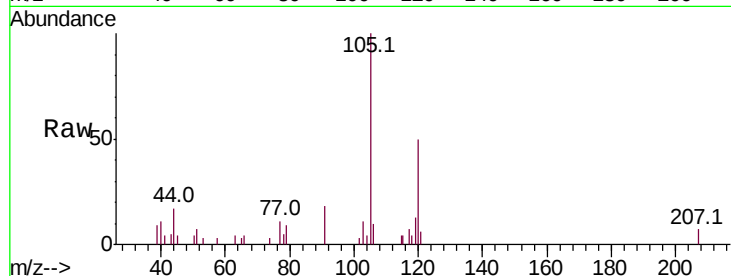
SLUDGE-B

Tot Ion:105 Resp: 8348

Ion Ratio Lower Upper

105 100

120 44.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

6000

5000

4000

3000

2000

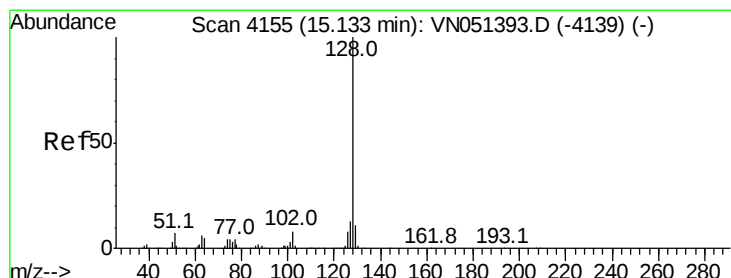
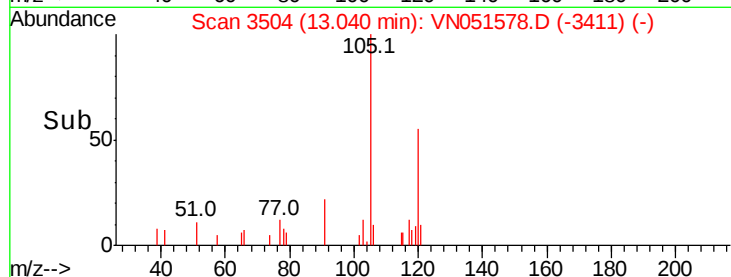
1000

0

13.04

13.05

Time-->



#95

Naphthalene

Concen: 8.691 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051578.D

Acq: 27 Sep 2018 12:38

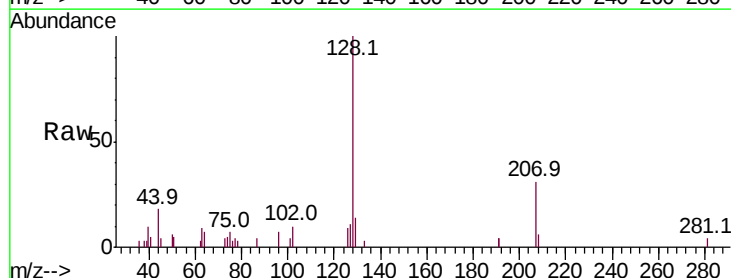
Tgt Ion:128 Resp: 9156

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

129 11.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

6000

4000

2000

0

15.13

15.15

Time-->

