

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060932.D
 Acq On : 14 Apr 2020 14:45
 Operator : JC/MD
 Sample : L2197-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RECLAIM-SYSTEM-SLUDGE-SEPA

Quant Time: Apr 15 07:45:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	146140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	247839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	233880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	105811	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	97582	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
35) Dibromofluoromethane	7.56	113	73829	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
50) Toluene-d8	10.08	98	307763	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.39	95	117201	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	

Target Compounds

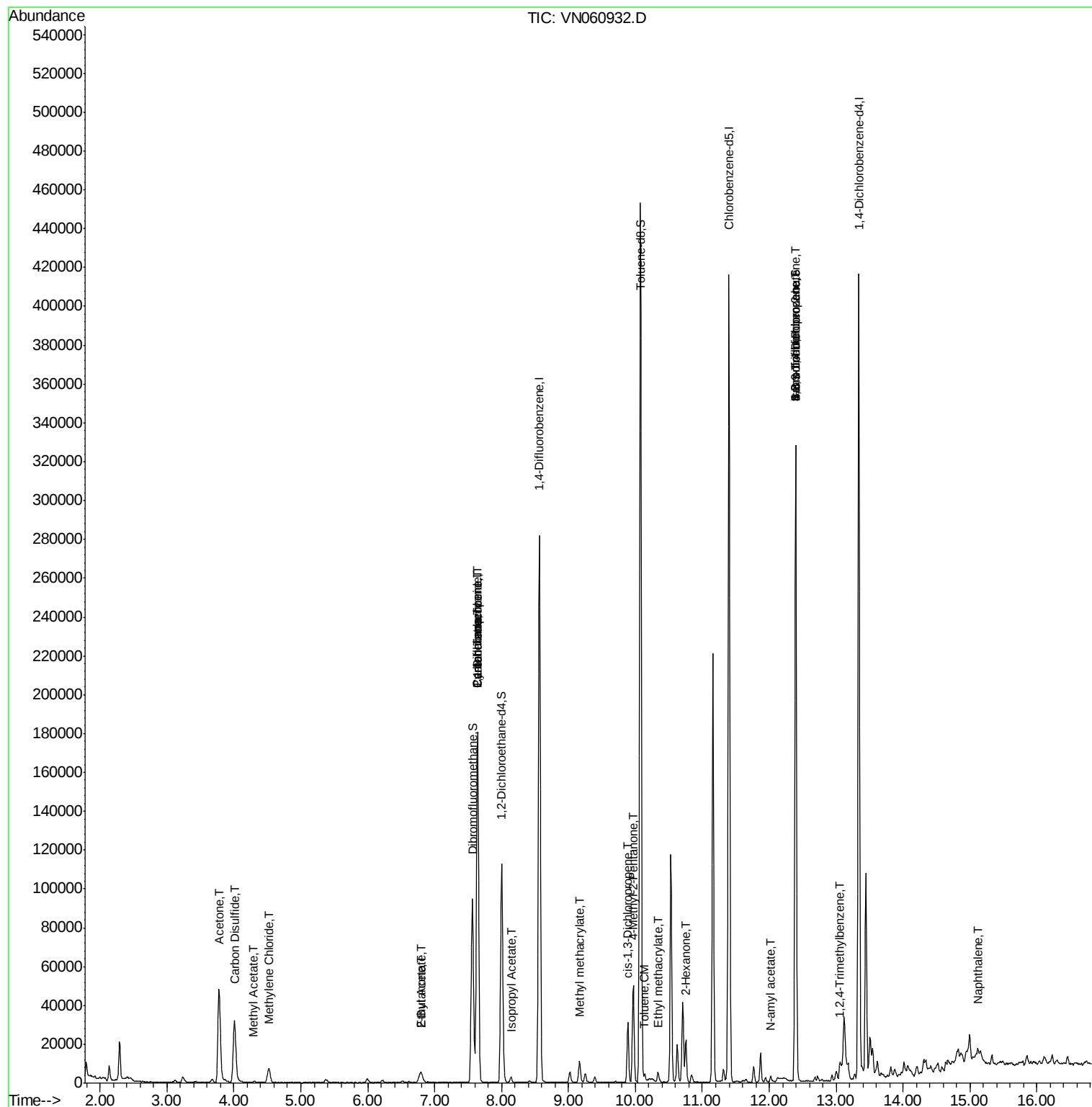
						Qvalue
16) Acetone	3.78	43	83438	117.415	ug/l	99
17) Carbon Disulfide	4.03	76	1229	0.255	ug/l #	75
18) Methyl Acetate	4.29	43	1493	0.746	ug/l #	54
20) Methylene Chloride	4.53	84	5740	3.284	ug/l	95
25) 2-Butanone	6.80	43	9974	8.674	ug/l #	88
31) Cyclohexane	7.64	56	3247	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11600	4.834	ug/l #	49
37) Ethyl Acetate	6.80	43	9974	3.846	ug/l #	70
38) Carbon Tetrachloride	7.64	117	13908	6.466	ug/l #	16
43) Isopropyl Acetate	8.14	43	3588	0.839	ug/l #	83
48) Methyl methacrylate	9.16	41	2742	1.440	ug/l #	29
51) 4-Methyl-2-Pentanone	9.97	43	36063	14.819	ug/l	97
52) Toluene	10.14	92	2046	0.468	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	5530	1.827	ug/l #	59
56) Ethyl methacrylate	10.34	69	862	0.328	ug/l #	39
59) 2-Hexanone	10.75	43	3797	2.166	ug/l	64
71) Bromoform	12.39	173	396	1.955	ug/l #	1
74) N-amyl acetate	12.02	43	3239	0.883	ug/l #	46
76) 1,2,3-Trichloropropane	12.39	75	59365	26.001	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	59365	66.778	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.05	105	2438	0.366	ug/l #	32
95) Naphthalene	15.13	128	1316	0.221	ug/l #	76

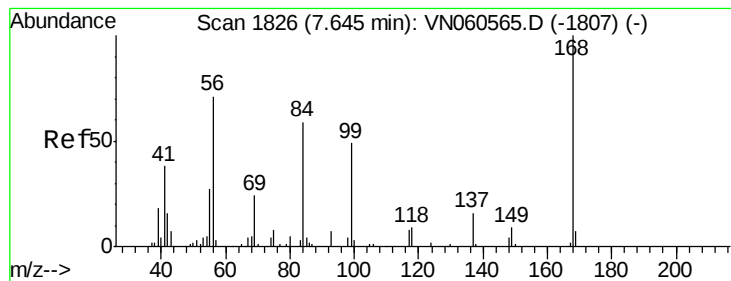
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

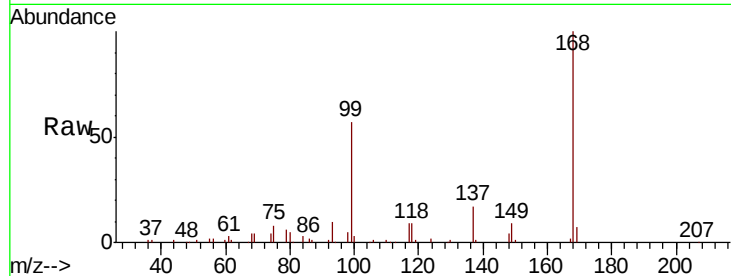
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion:168 Resp: 146140

Ion Ratio Lower Upper

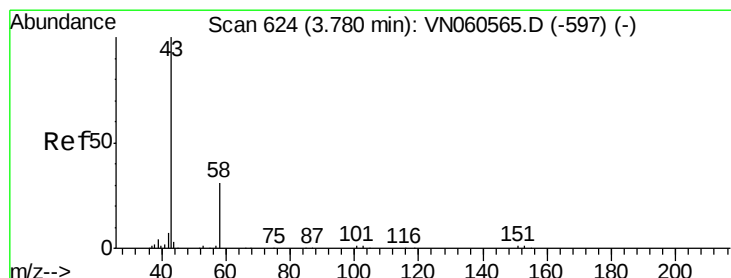
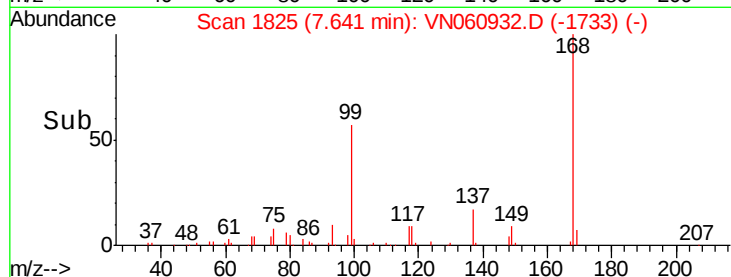
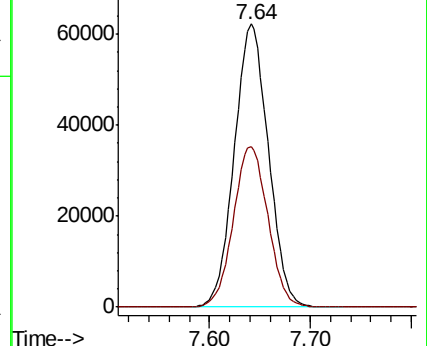
168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 117.415 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN060932.D

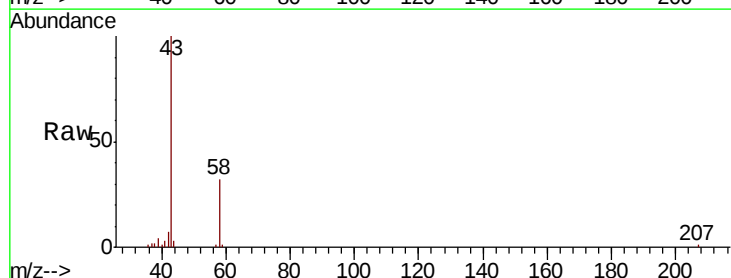
Acq: 14 Apr 2020 14:45

Tgt Ion: 43 Resp: 83438

Ion Ratio Lower Upper

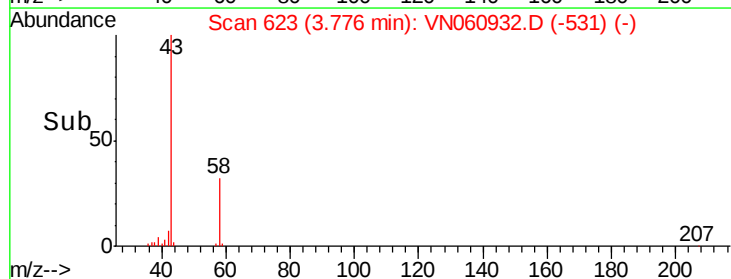
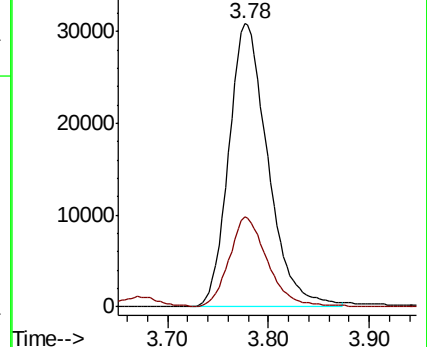
43 100

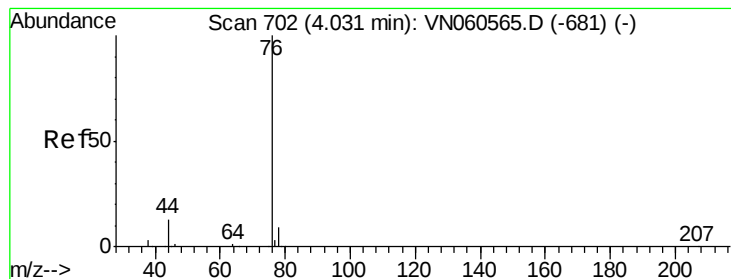
58 31.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

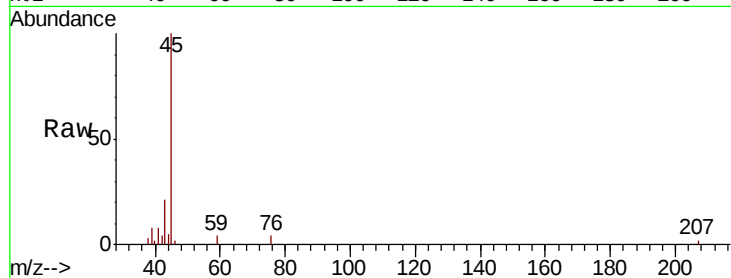
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion: 76 Resp: 1229

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN060565.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060565.D (-681) (-)

4.03

500

400

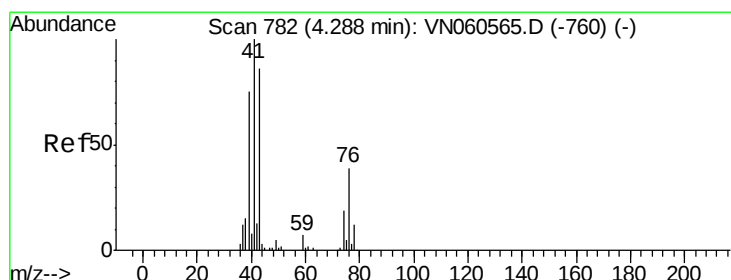
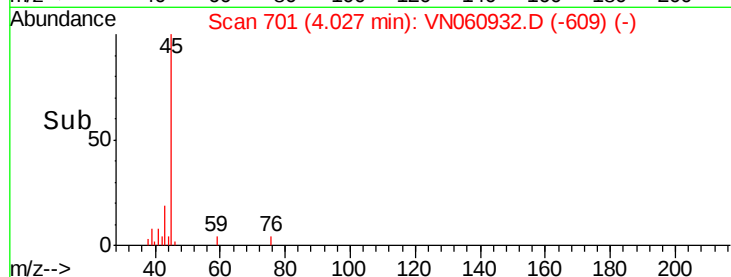
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 0.746 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060932.D

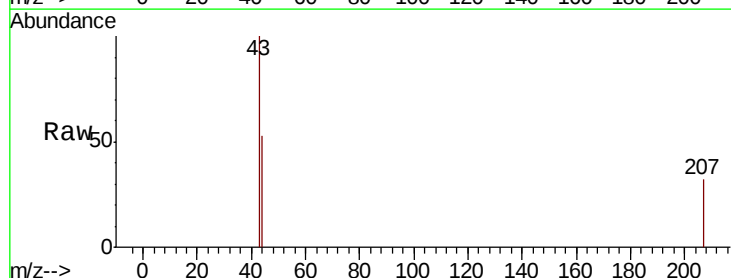
Acq: 14 Apr 2020 14:45

Tgt Ion: 43 Resp: 1493

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-760) (-)

Ion 74.00 (73.70 to 74.70): VN060565.D (-760) (-)

4.29

500

400

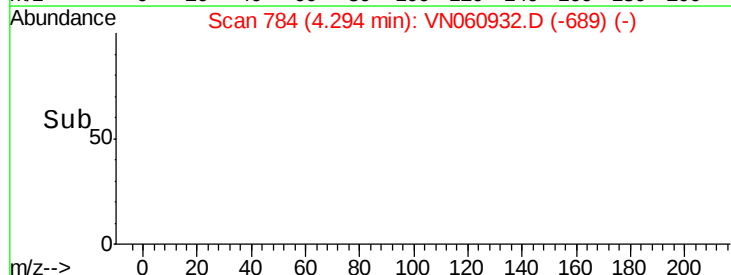
300

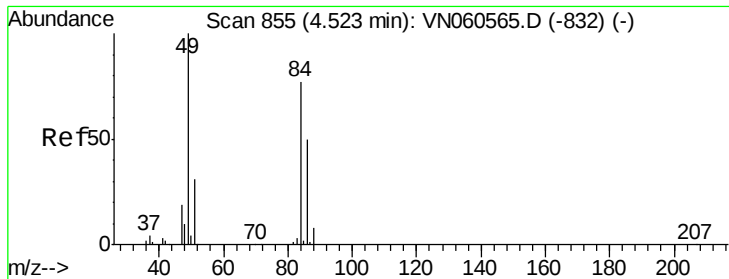
200

100

0

Time-->

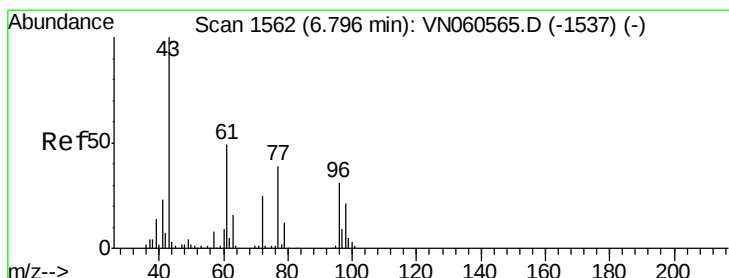
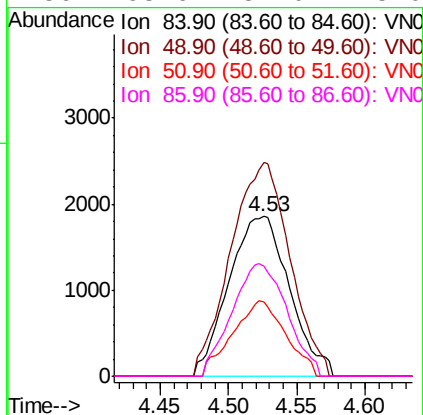
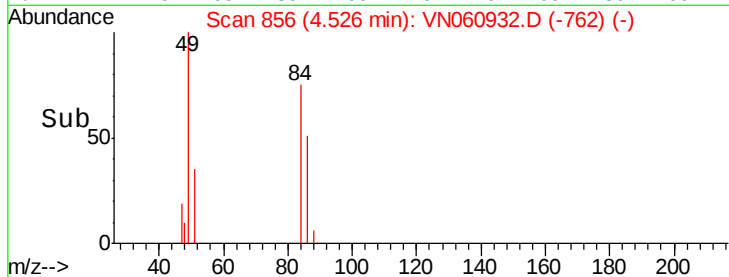
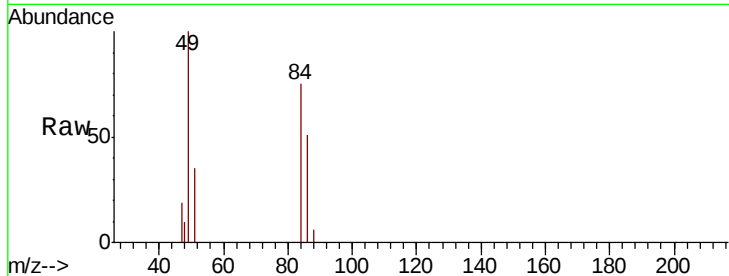




#20
Methvlene Chloride
Concen: 3.284 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

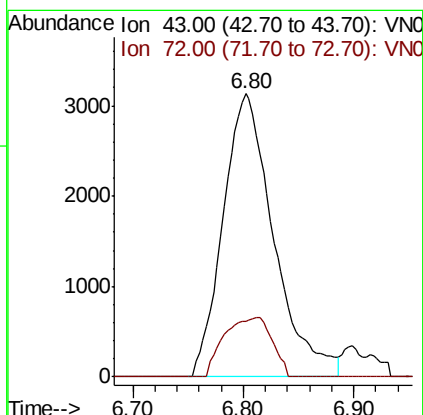
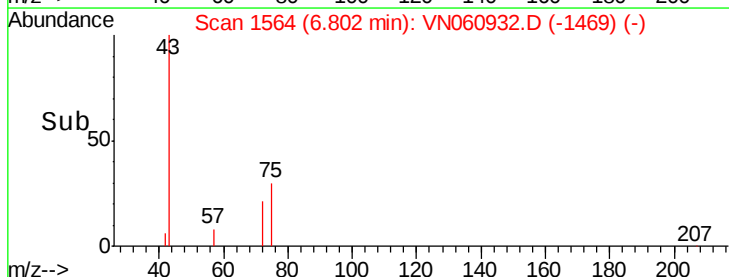
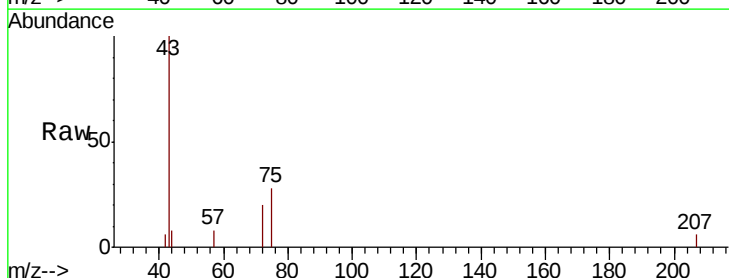
Instrument :
MSVOA_N
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RECLAIM-SYSTEM-SLUDGE-SEPA

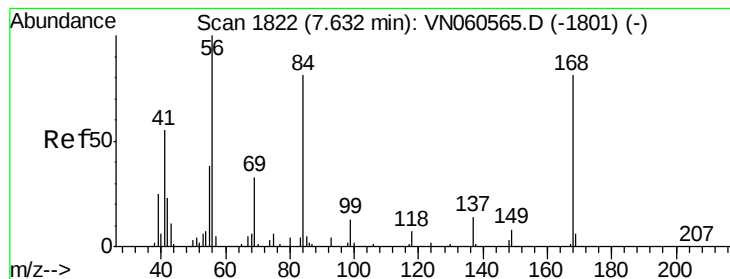
Tot Ion:	84	Resp:	5740
Ion	Ratio	Lower	Upper
84	100		
49	133.8	103.3	154.9
51	46.6	31.6	47.4
86	68.6	52.0	78.0



#25
2-Butanone
Concen: 8.674 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

Tgt Ion:	43	Resp:	9974
Ion	Ratio	Lower	Upper
43	100		
72	19.5	20.4	30.6#





#31

Cyclohexane

Concen: 1.005 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

RECLAIM-SYSTEM-SLUDGE-SEPA

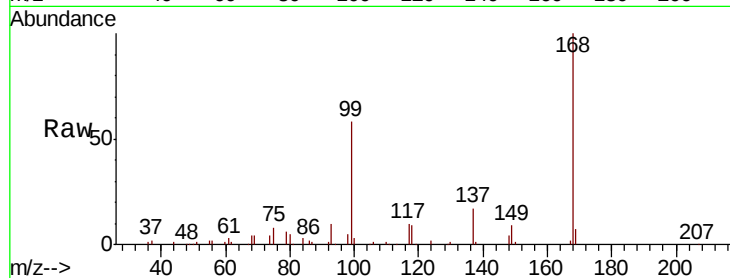
Tot Ion: 56 Resp: 3247

Ion Ratio Lower Upper

56 100

69 169.4 26.6 40.0#

84 139.2 64.3 96.5#

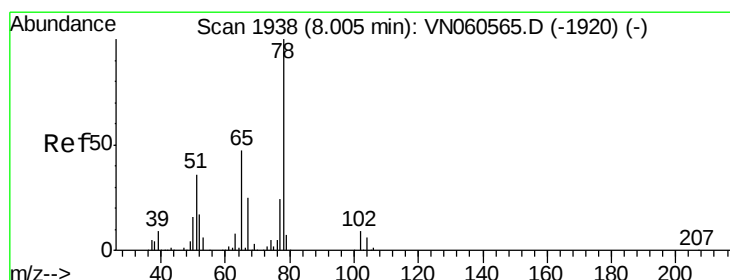
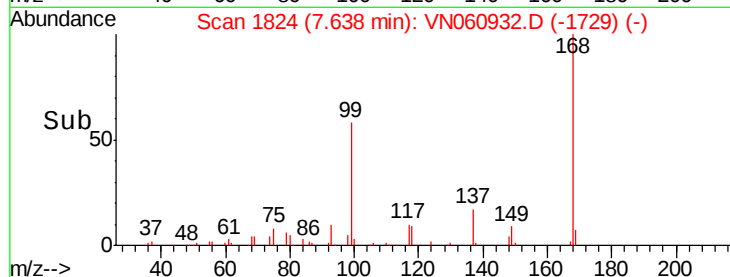
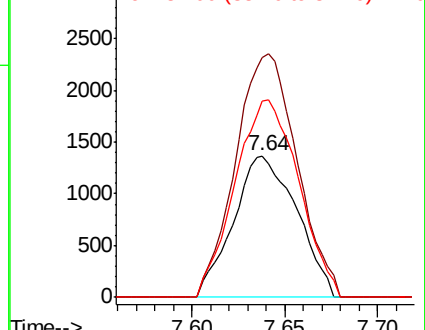


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.641 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060932.D

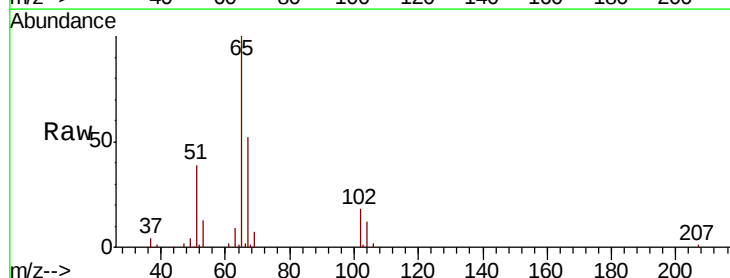
Acq: 14 Apr 2020 14:45

Tgt Ion: 65 Resp: 97582

Ion Ratio Lower Upper

65 100

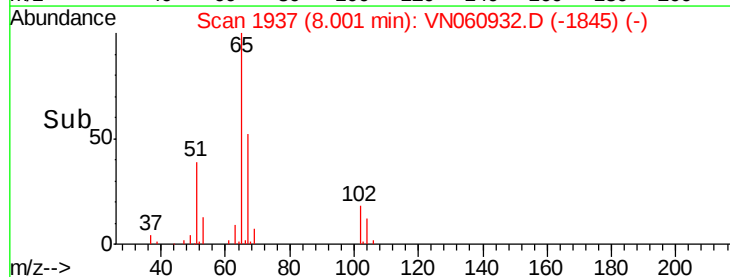
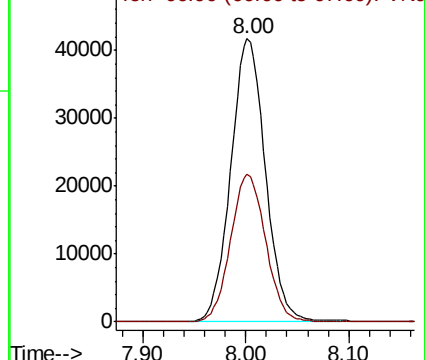
67 52.7 0.0 107.6

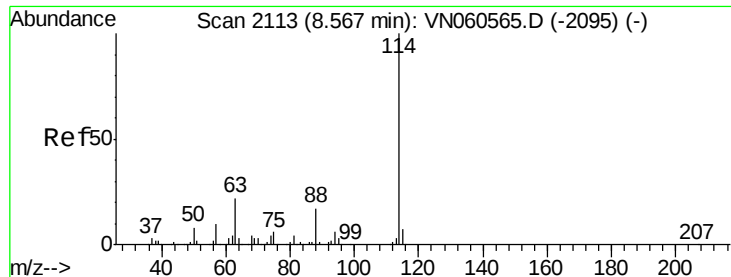


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

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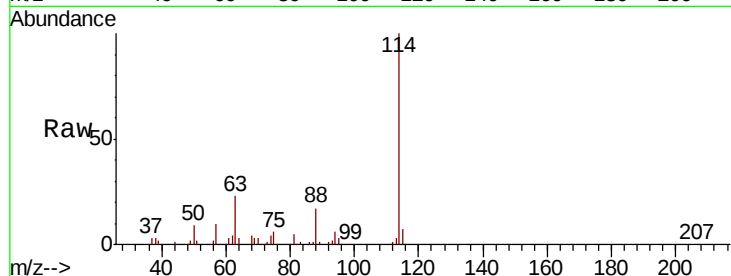
Tot Ion:114 Resp: 247839

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.8

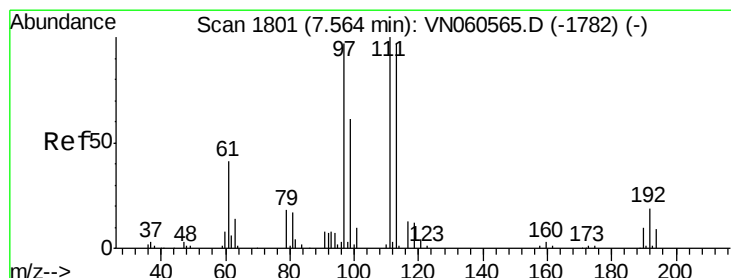
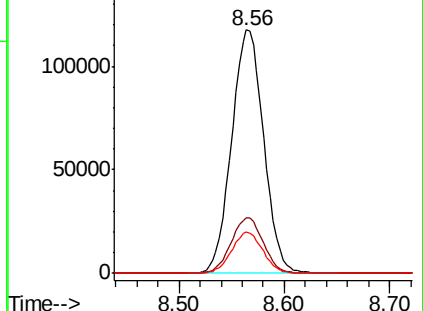
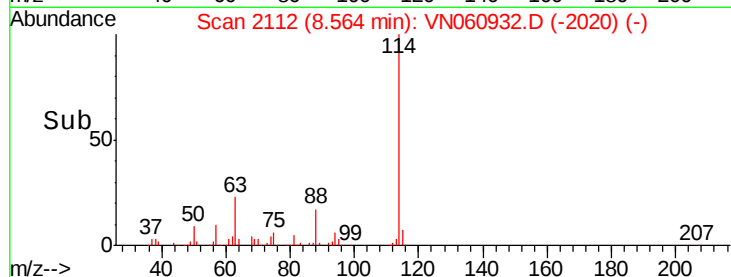
88 17.0 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.265 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

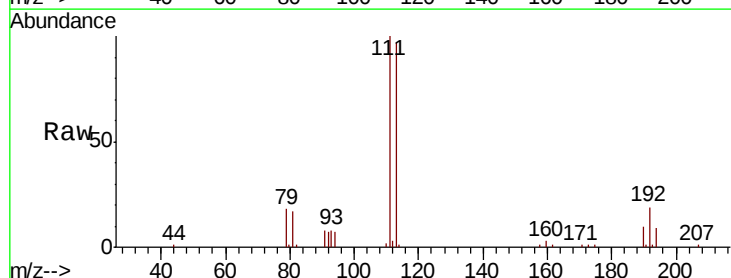
Tgt Ion:113 Resp: 73829

Ion Ratio Lower Upper

113 100

111 101.8 82.9 124.3

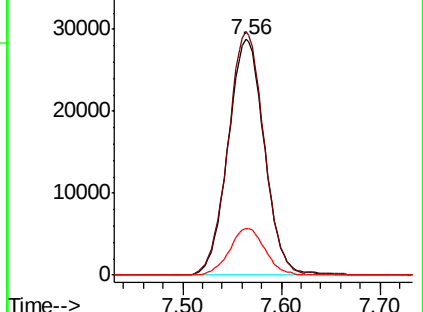
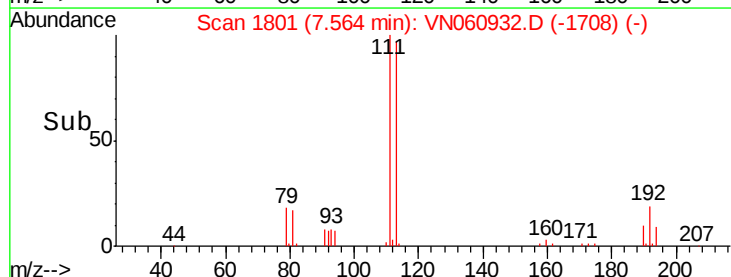
192 19.1 15.8 23.8

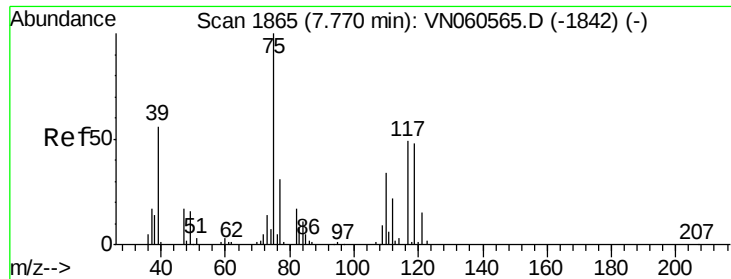


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.834 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

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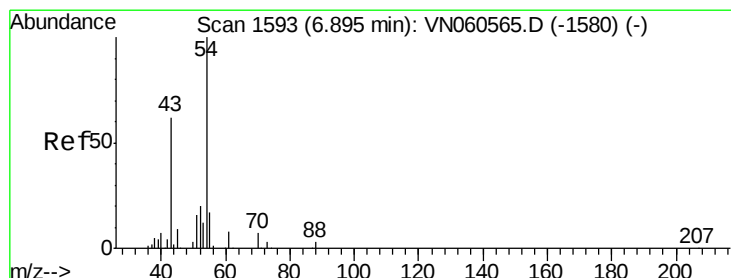
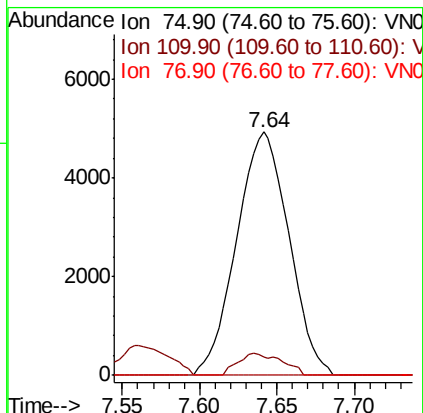
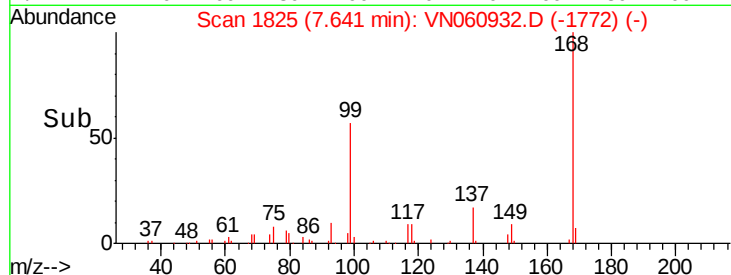
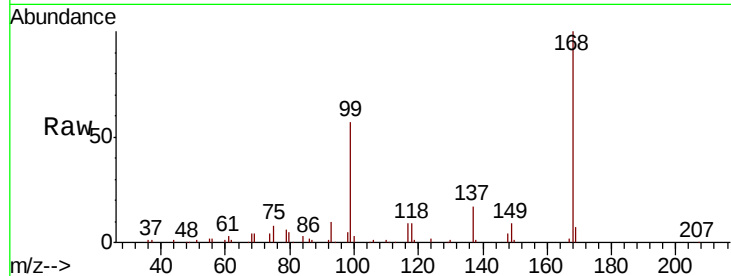
Tot Ion: 75 Resp: 11600

Ion Ratio Lower Upper

75 100

110 7.6 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 3.846 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.09 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

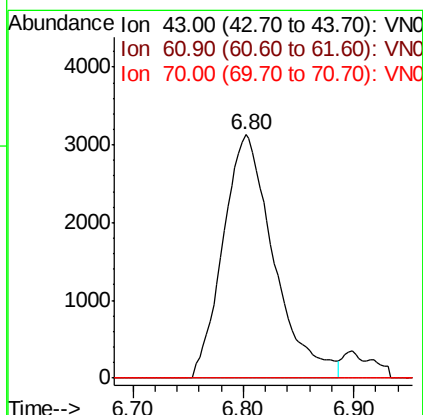
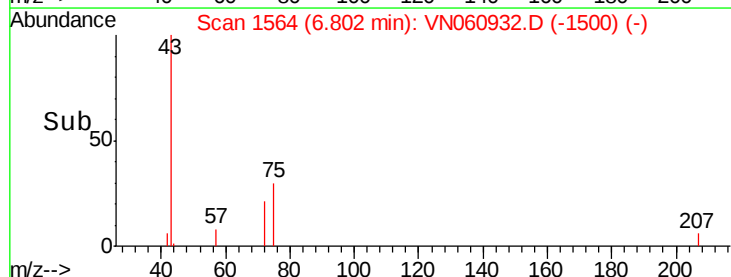
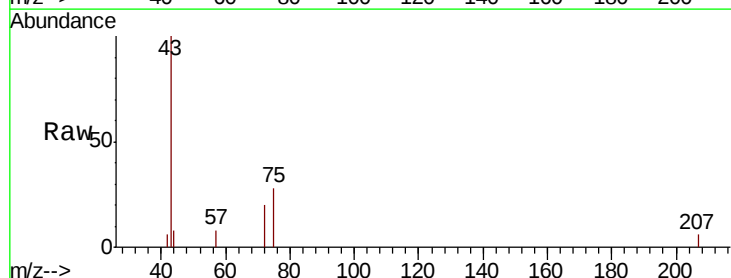
Tgt Ion: 43 Resp: 9974

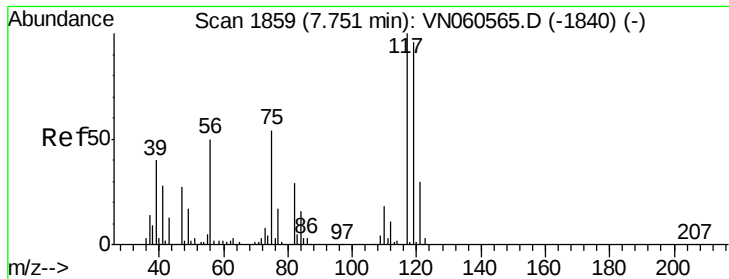
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.466 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

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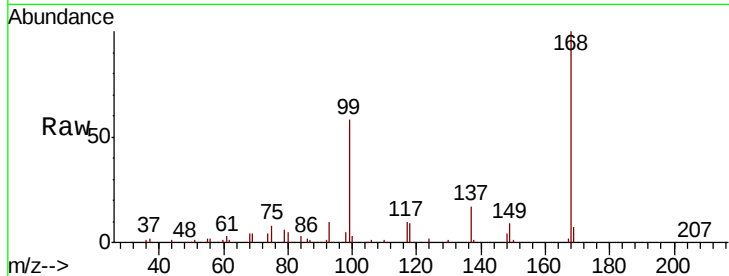
Tot Ion:117 Resp: 13908

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

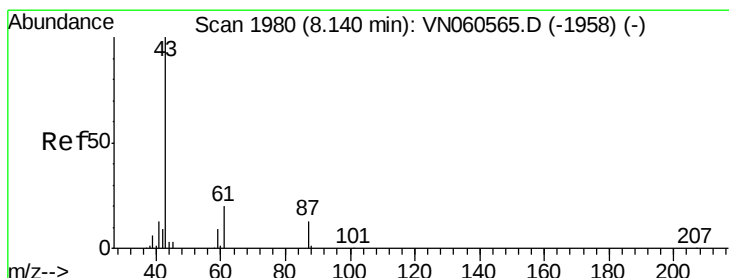
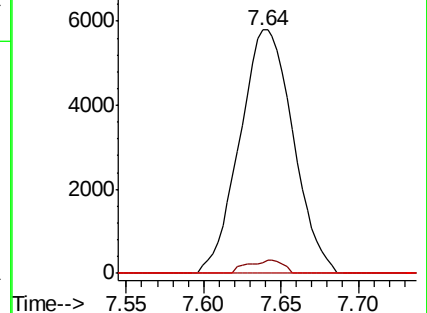
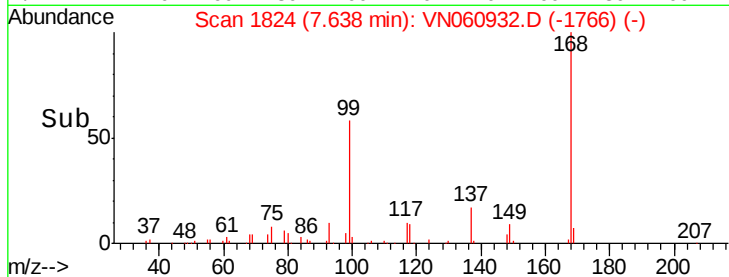
121 0.0 23.7 35.5#



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: 0.839 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

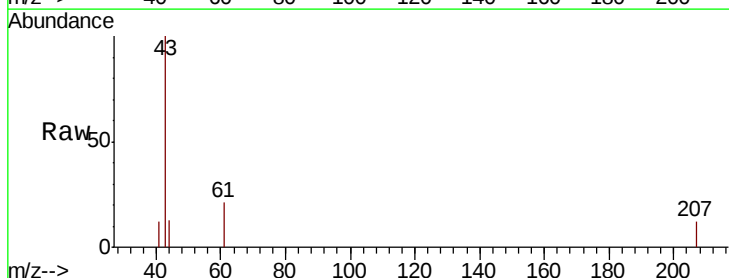
Tgt Ion: 43 Resp: 3588

Ion Ratio Lower Upper

43 100

61 18.6 20.7 31.1#

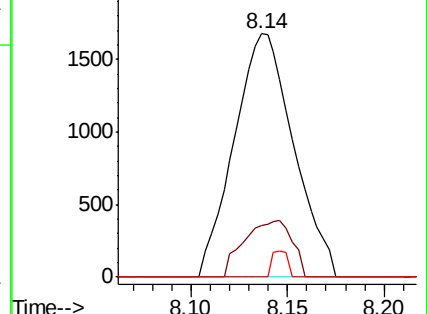
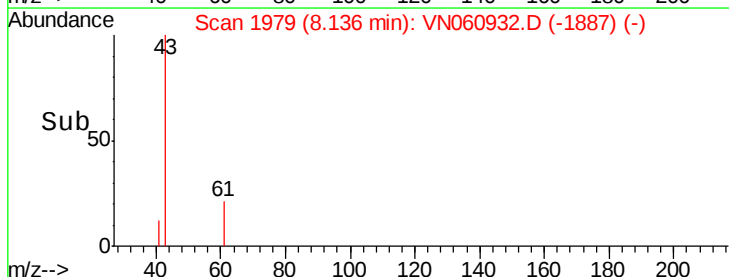
87 2.8 9.8 14.8#



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

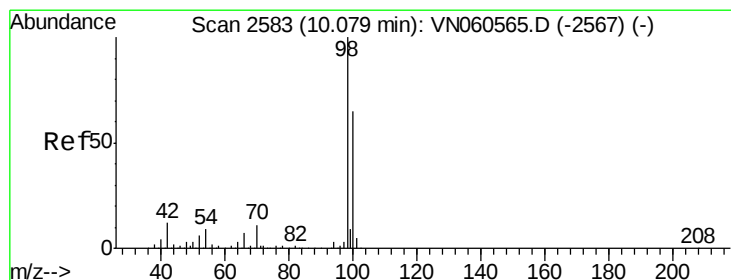
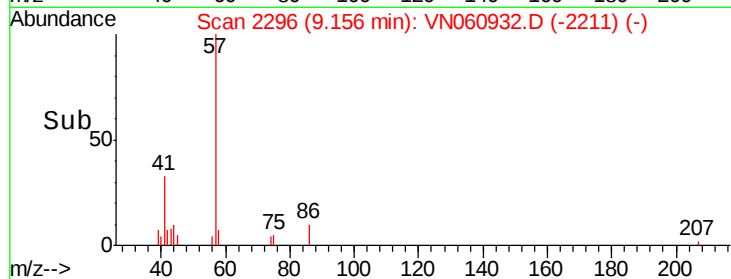
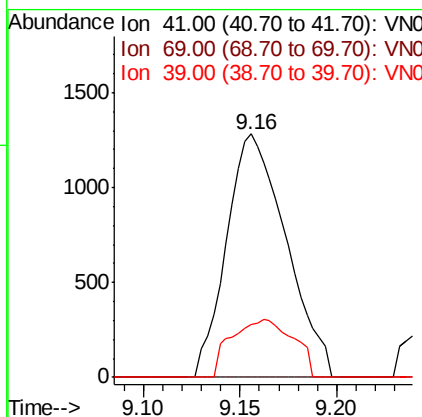
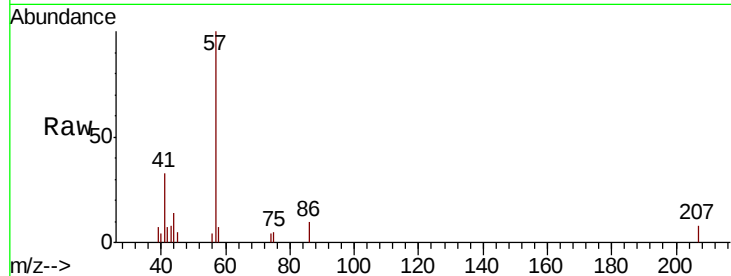




#48
Methvl methacrylate
Concen: 1.440 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

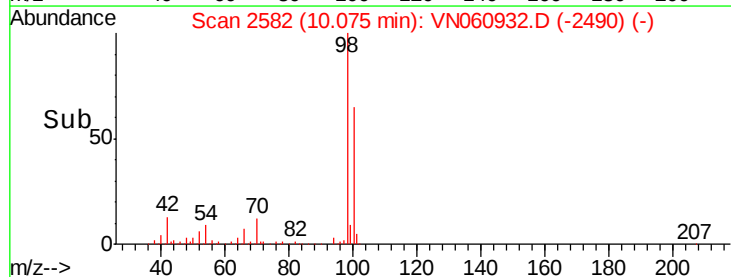
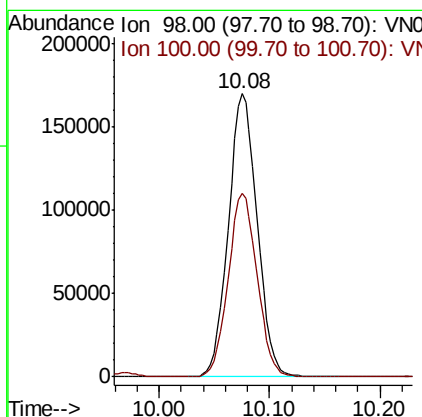
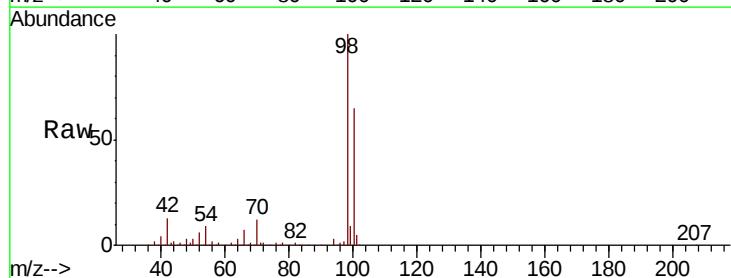
Instrument :
MSVOA_N
ClientSampleId :
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion: 41 Resp: 2742
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 24.9 44.0 66.0#



#50
Toluene-d8
Concen: 50.278 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

Tgt Ion: 98 Resp: 307763
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 14.819 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

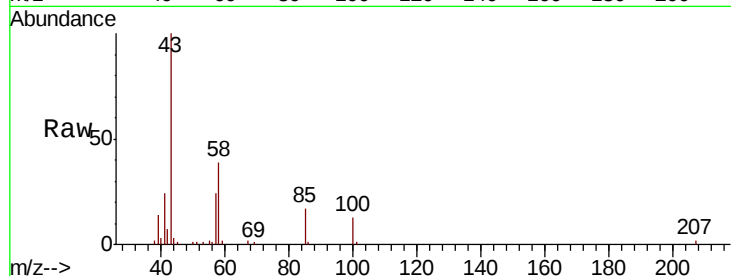
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion: 43 Resp: 36063

Ion Ratio Lower Upper

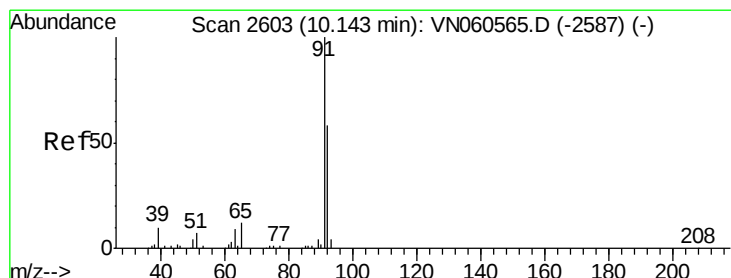
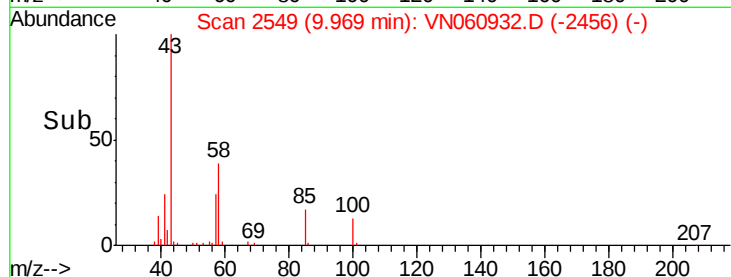
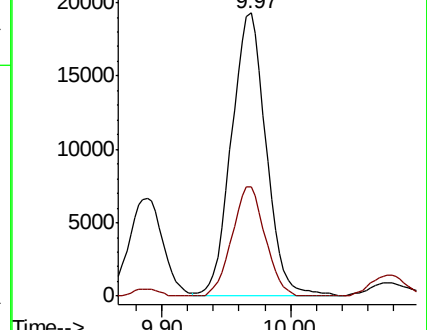
43 100

58 36.8 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)



#52

Toluene

Concen: 0.468 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060932.D

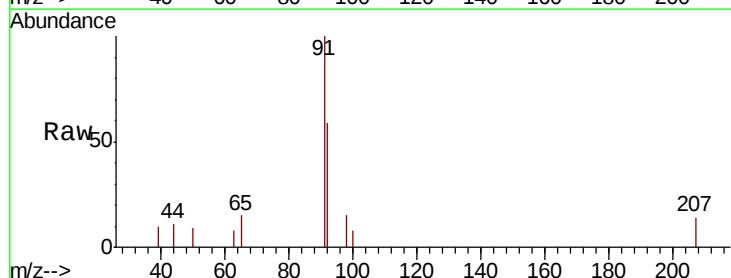
Acq: 14 Apr 2020 14:45

Tgt Ion: 92 Resp: 2046

Ion Ratio Lower Upper

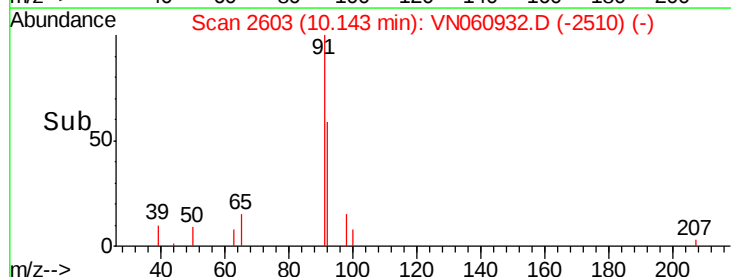
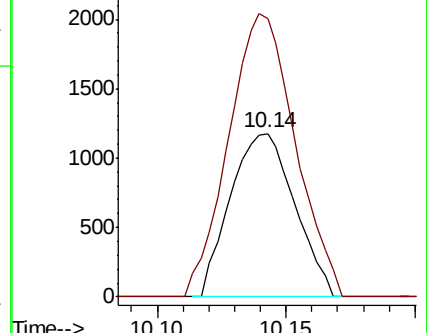
92 100

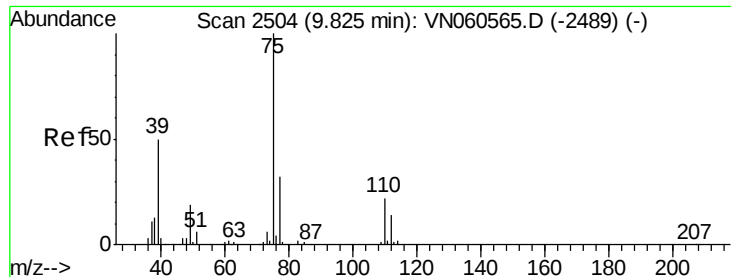
91 179.2 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060565.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN060565.D (-2587) (-)





#54

cis-1,3-Dichloropropene

Concen: 1.827 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

RECLAIM-SYSTEM-SLUDGE-SEPA

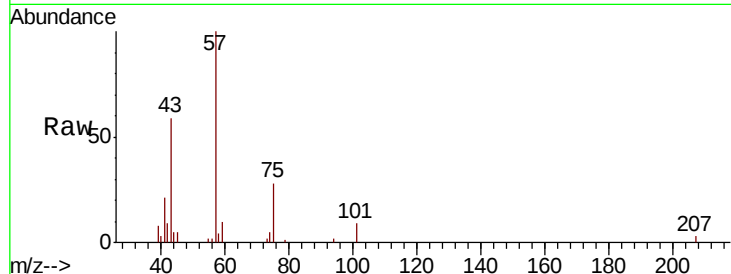
Tot Ion: 75 Resp: 5530

Ion Ratio Lower Upper

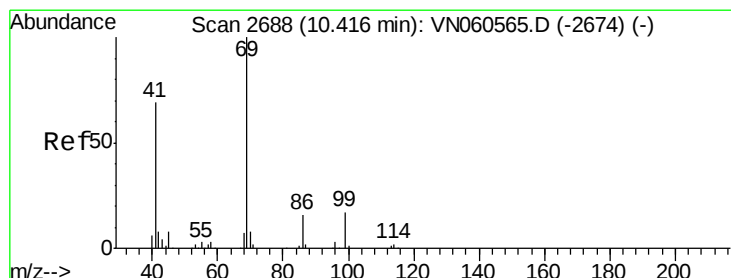
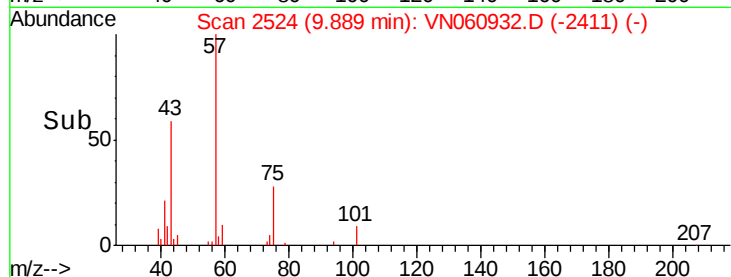
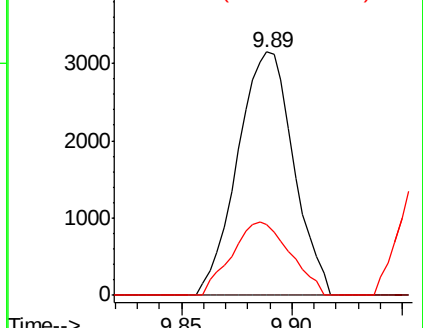
75 100

77 0.0 25.4 38.0#

39 29.2 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.328 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

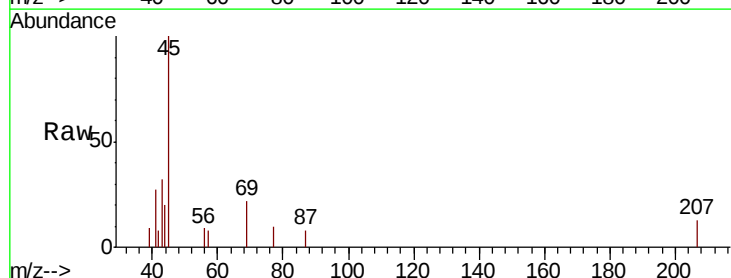
Tgt Ion: 69 Resp: 862

Ion Ratio Lower Upper

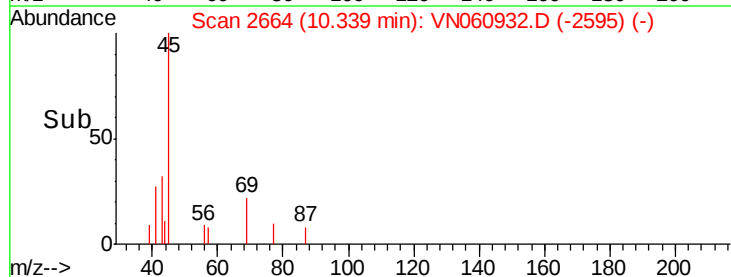
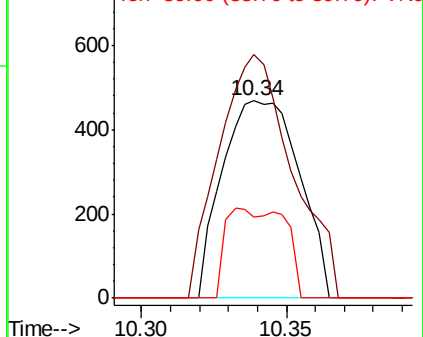
69 100

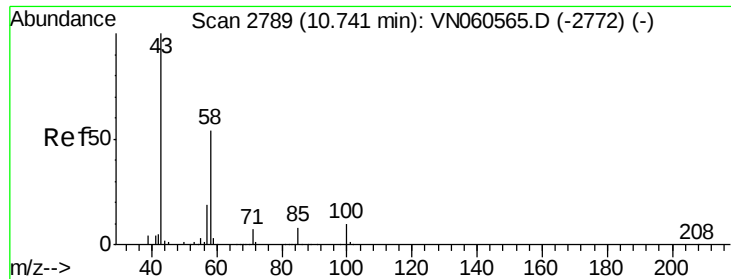
41 118.1 55.4 83.2#

39 0.0 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

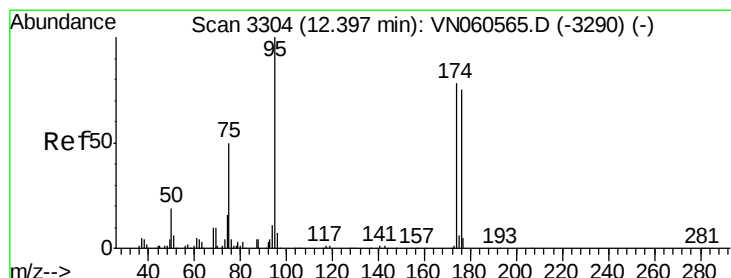
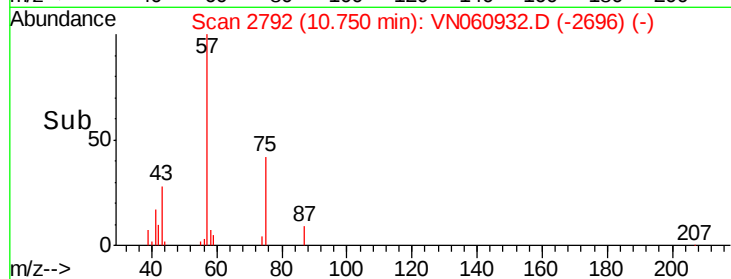
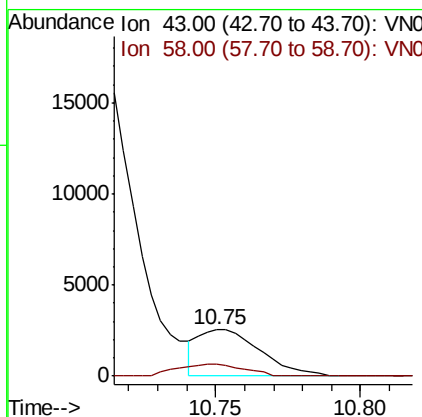
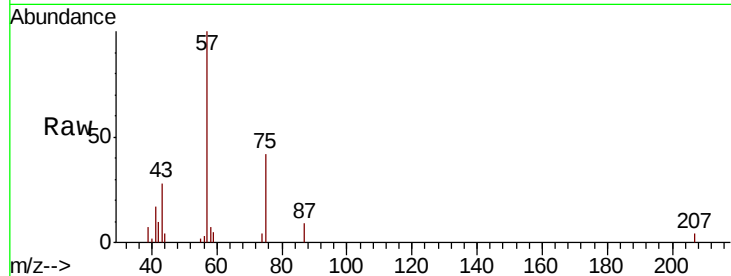




#59
2-Hexanone
Concen: 2.166 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

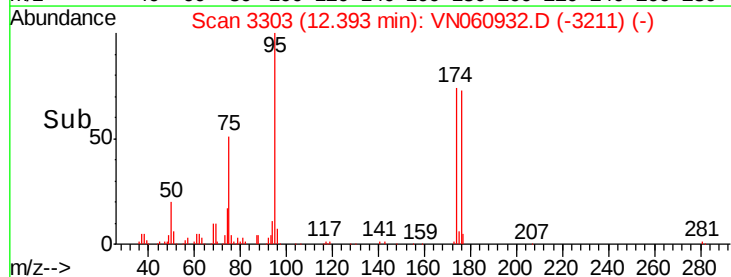
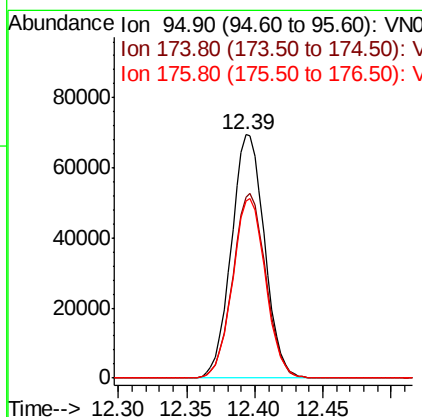
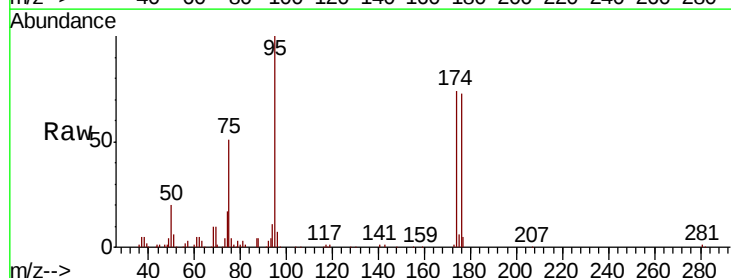
Instrument :
MSVOA_N
ClientSampleId :
RECLAIM-SYSTEM-SLUDGE-SEPA

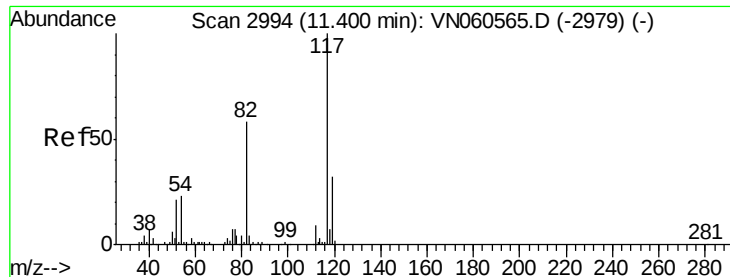
Tot Ion: 43 Resp: 3797
Ion Ratio Lower Upper
43 100
58 27.8 26.7 80.1



#62
4-Bromofluorobenzene
Concen: 52.244 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

Tgt Ion: 95 Resp: 117201
Ion Ratio Lower Upper
95 100
174 75.6 0.0 157.6
176 73.3 0.0 150.6

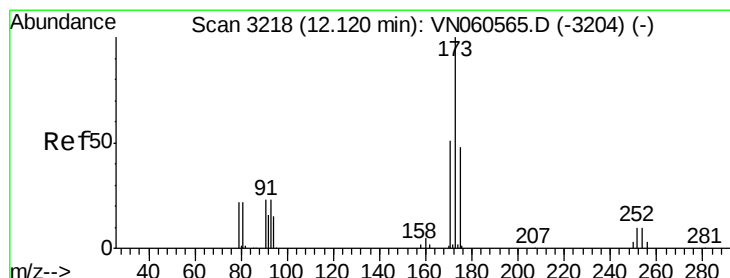
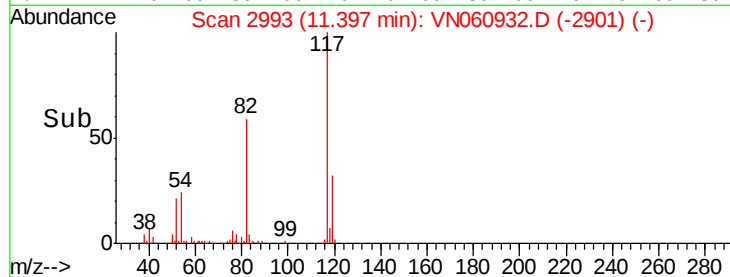
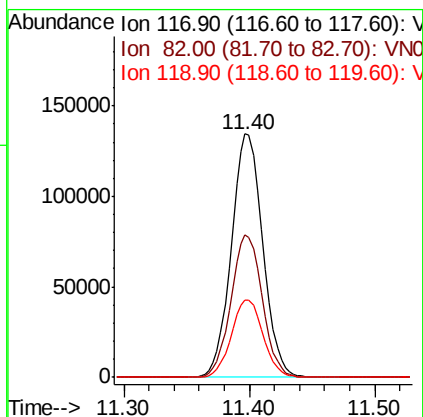
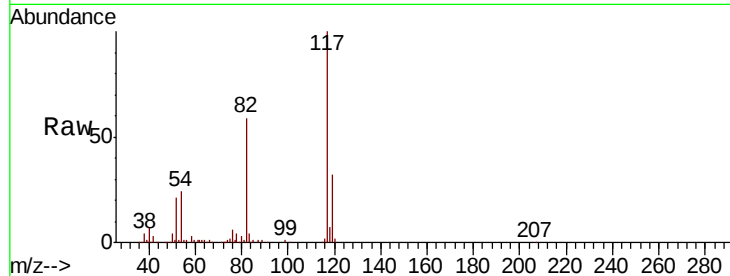




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

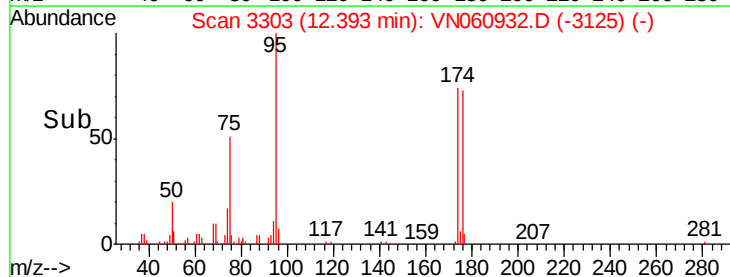
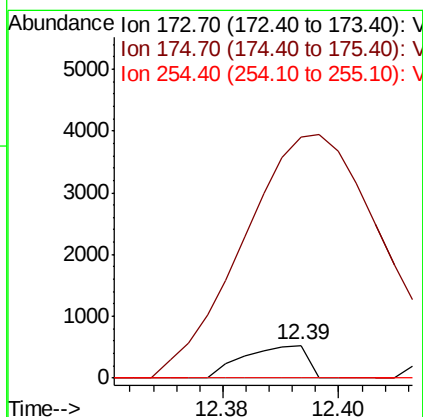
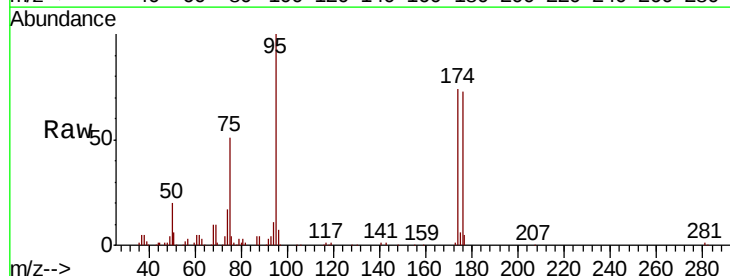
Instrument :
MSVOA_N
ClientSampleId :
RECLAIM-SYSTEM-SLUDGE-SEPA

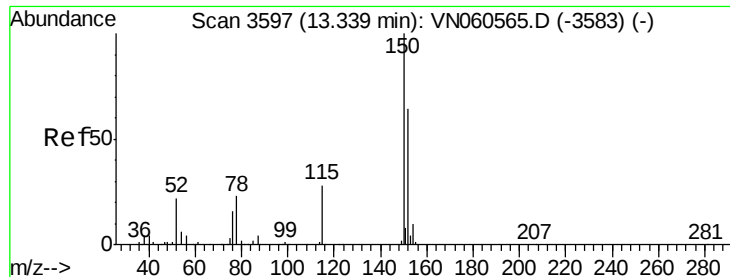
Tot Ion:117 Resp: 233880
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 31.6 25.5 38.3



#71
Bromoform
Concen: 1.955 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060932.D
Acq: 14 Apr 2020 14:45

Tgt Ion:173 Resp: 396
Ion Ratio Lower Upper
173 100
175 1435.1 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

RECLAIM-SYSTEM-SLUDGE-SEPA

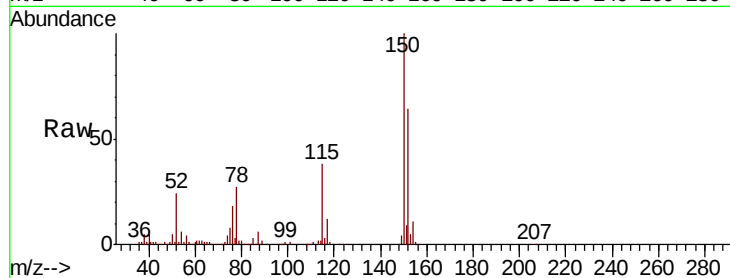
Tot Ion:152 Resp: 105811

Ion Ratio Lower Upper

152 100

115 61.4 30.2 90.6

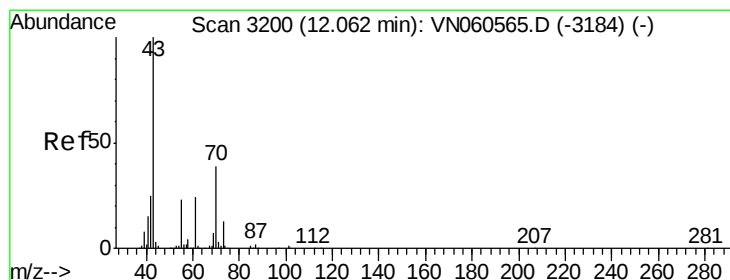
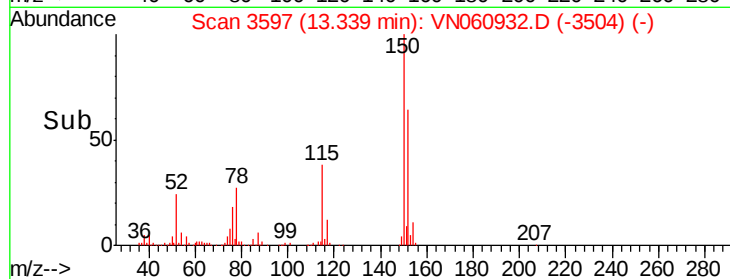
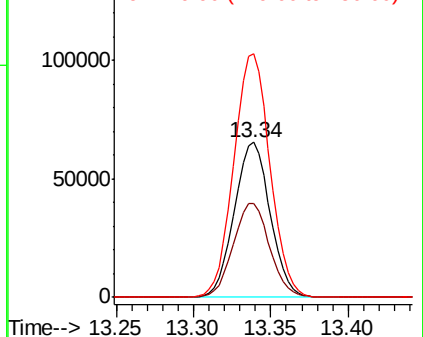
150 157.7 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.883 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Tgt Ion: 43 Resp: 3239

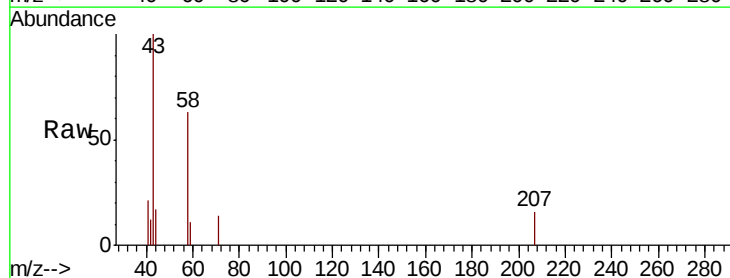
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 2.0 18.6 27.8#

61 0.0 18.9 28.3#

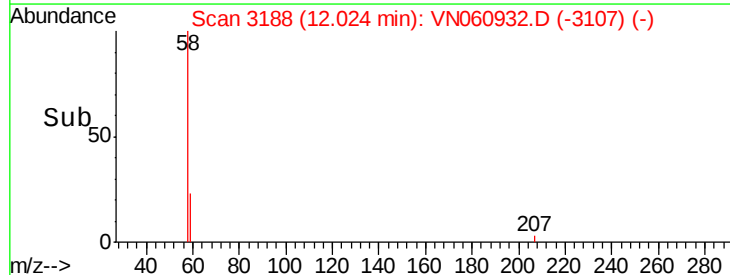
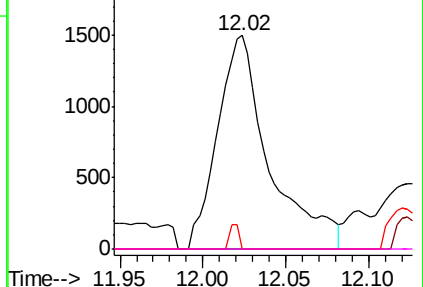


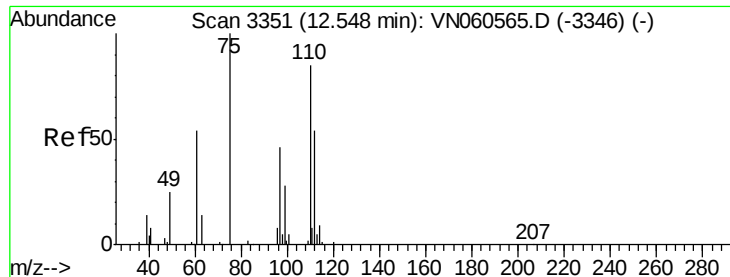
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 26.001 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

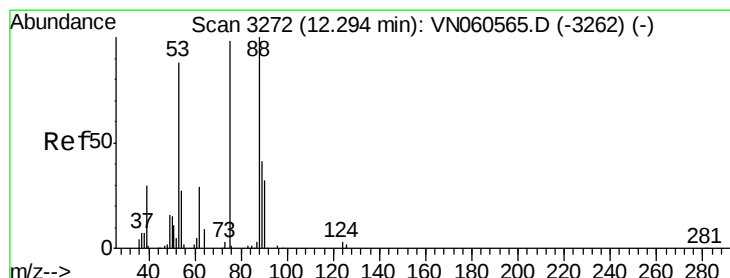
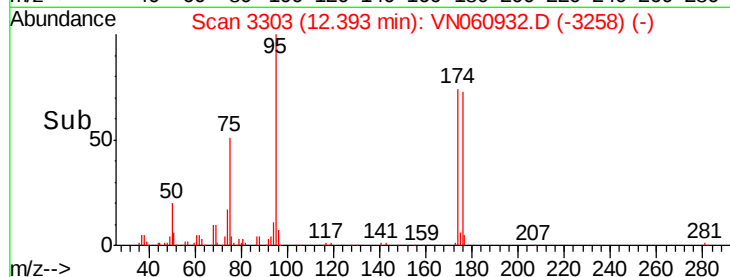
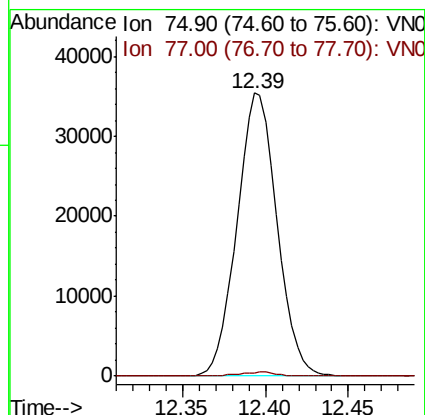
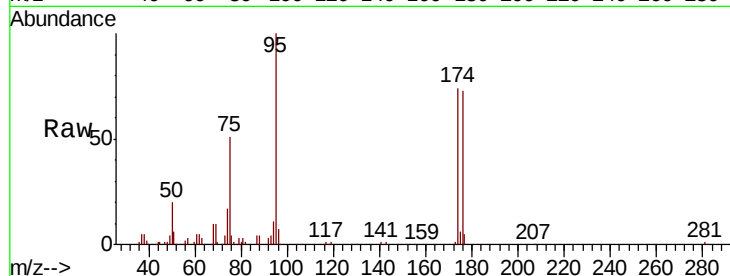
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion: 75 Resp: 59365

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.778 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

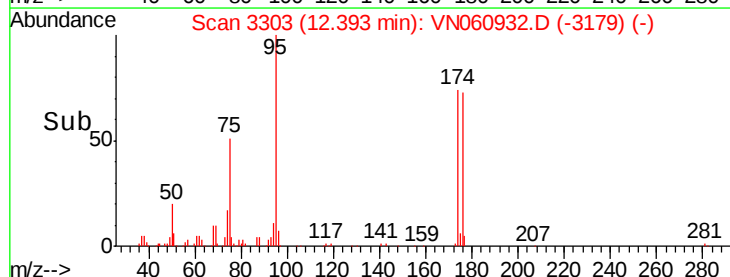
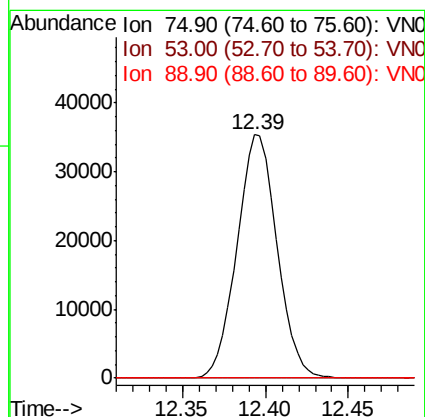
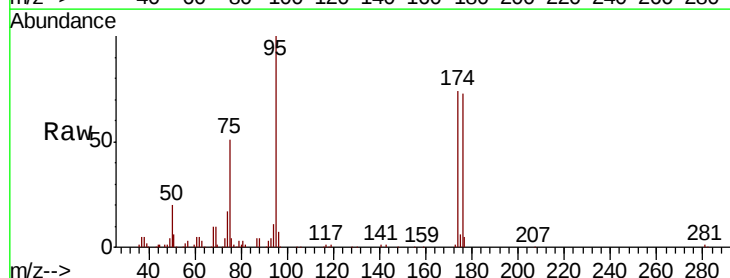
Tgt Ion: 75 Resp: 59365

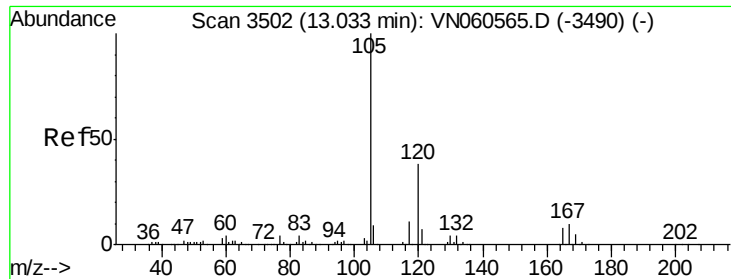
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.366 ug/l

RT: 13.05 min Scan# 3508

Delta R.T. 0.02 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

Instrument :

MSVOA_N

ClientSampleId :

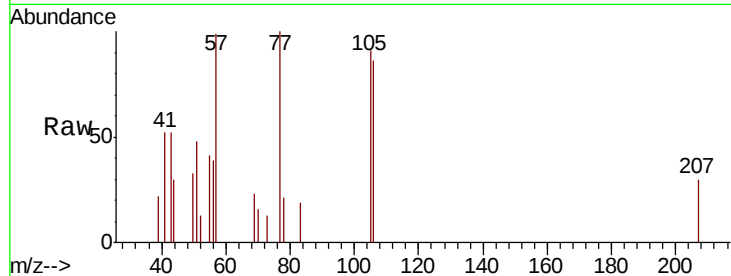
RECLAIM-SYSTEM-SLUDGE-SEPA

Tot Ion:105 Resp: 2438

Ion Ratio Lower Upper

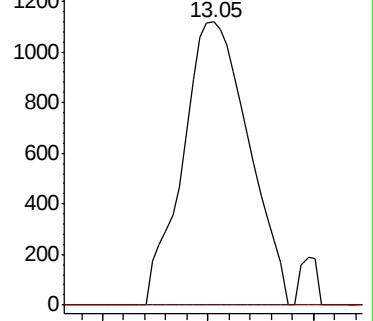
105 100

120 0.0 22.1 66.5#

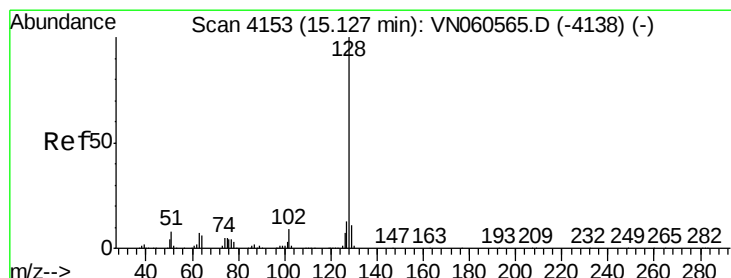
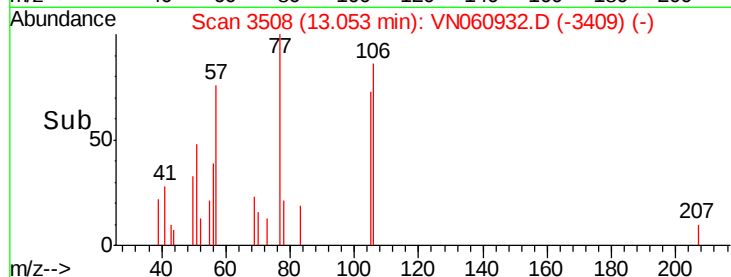


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#95

Naphthalene

Concen: 0.221 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060932.D

Acq: 14 Apr 2020 14:45

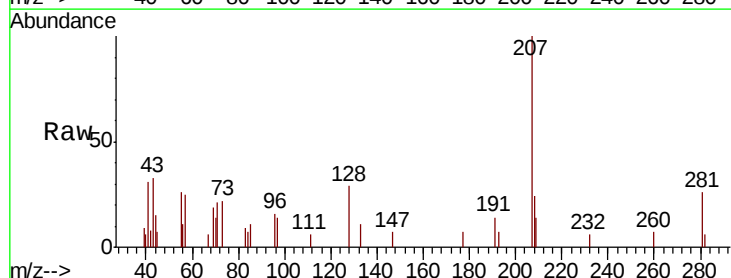
Tgt Ion:128 Resp: 1316

Ion Ratio Lower Upper

128 100

127 4.6 10.2 15.2#

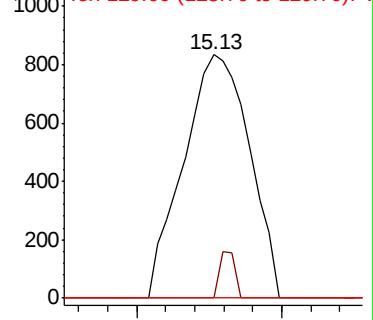
129 0.0 8.8 13.2#



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



Time-->

