

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061884.D
 Acq On : 18 Jun 2020 6:17
 Operator : JC/MD
 Sample : L2815-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-061520

Quant Time: Jun 18 07:10:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

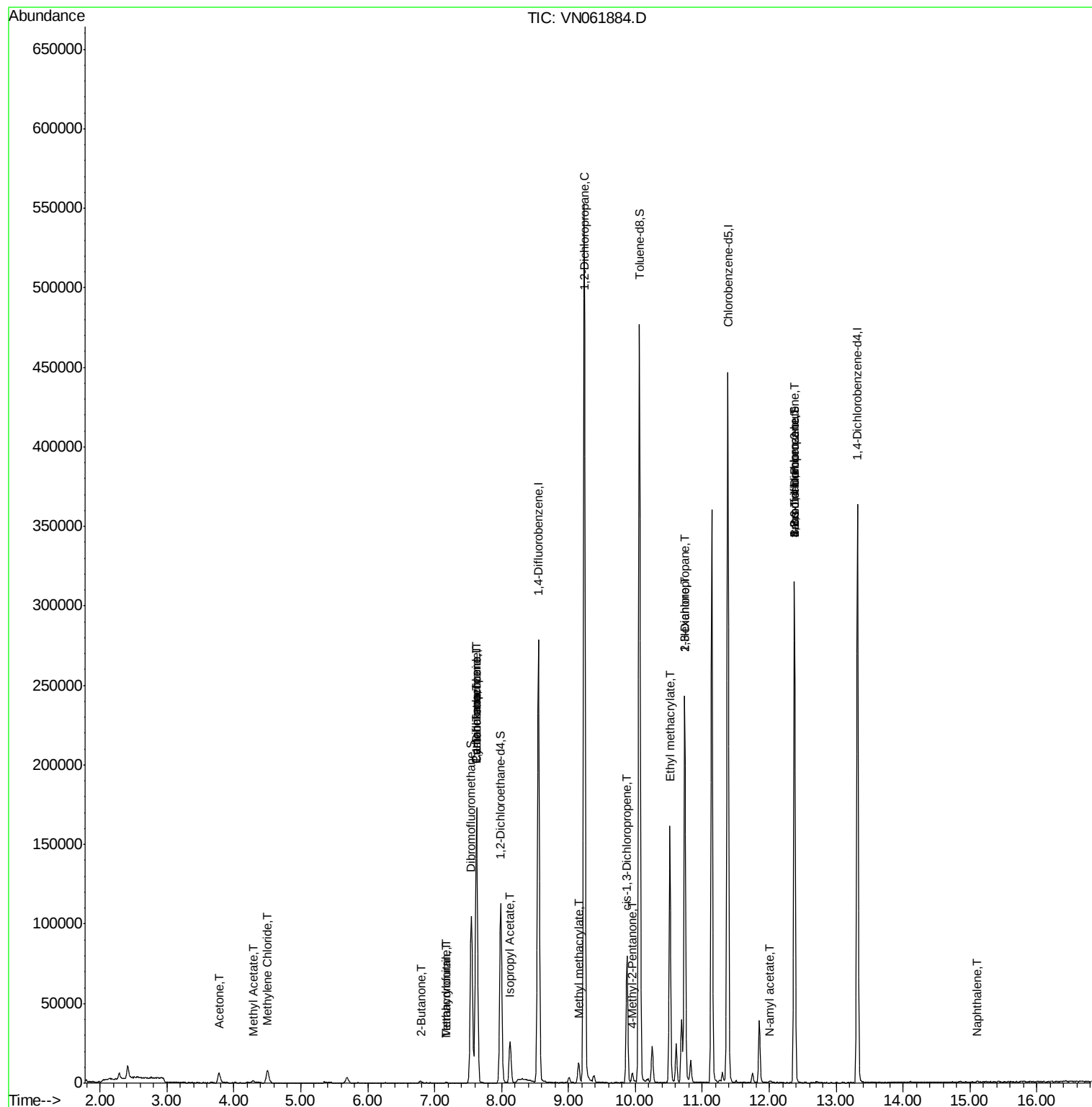
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138053	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	260193	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	261468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	99596	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	94792	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
35) Dibromofluoromethane	7.55	113	83180	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
50) Toluene-d8	10.06	98	333703	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	12.38	95	109817	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	11287	20.638	ug/l	98
18) Methyl Acetate	4.28	43	2536	1.611	ug/l	91
20) Methylene Chloride	4.50	84	6717	3.770	ug/l	97
25) 2-Butanone	6.80	43	1973	2.473	ug/l	93
29) Tetrahydrofuran	7.16	42	252	0.480	ug/l #	26
31) Cyclohexane	7.62	56	2900	1.189	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	10847	4.571	ug/l #	48
38) Carbon Tetrachloride	7.63	117	14129	6.012	ug/l #	16
41) Methacrylonitrile	7.17	41	197	0.249	ug/l #	100
43) Isopropyl Acetate	8.13	43	29759	9.528	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	572	0.324	ug/l #	43
48) Methyl methacrylate	9.15	41	1632	1.149	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	3806	2.062	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	15430	5.253	ug/l #	67
56) Ethyl methacrylate	10.52	69	553	3.094	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3044	1.011	ug/l #	42
59) 2-Hexanone	10.74	43	31466	33.603	ug/l #	50
71) Bromoform	12.38	173	1050	0.748	ug/l #	1
74) N-amyl acetate	12.00	43	1481	3.607	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	54665	27.957	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	54665	76.251	ug/l #	14
95) Naphthalene	15.11	128	875	3.647	ug/l #	69

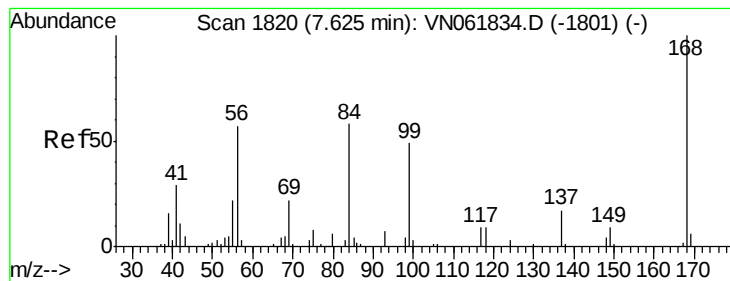
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

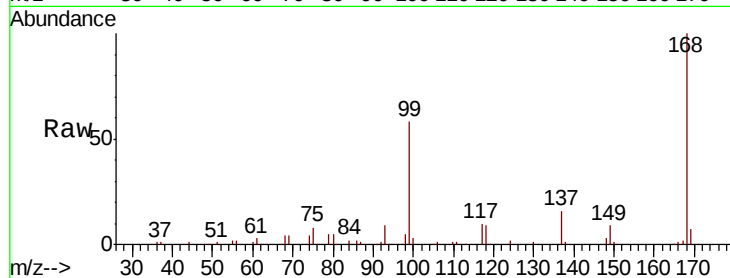
OR-03-061520

Tot Ion:168 Resp: 138053

Ion Ratio Lower Upper

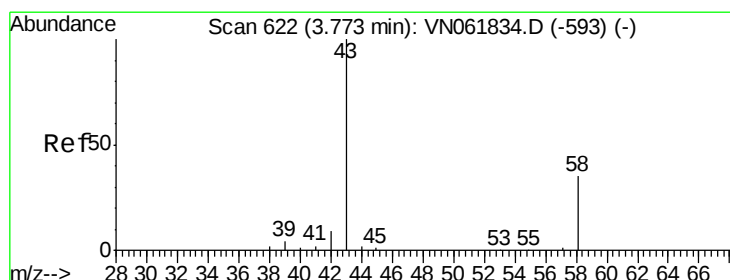
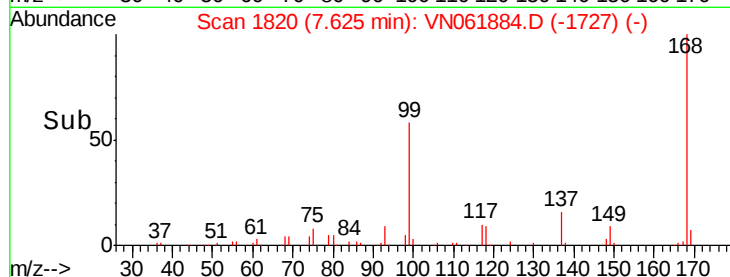
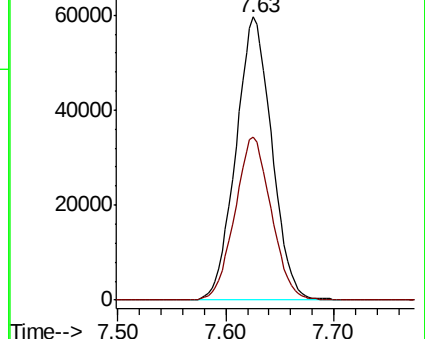
168 100

99 57.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 20.638 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061884.D

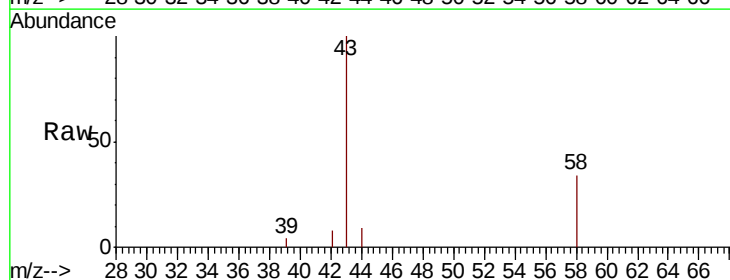
Acq: 18 Jun 2020 6:17

Tgt Ion: 43 Resp: 11287

Ion Ratio Lower Upper

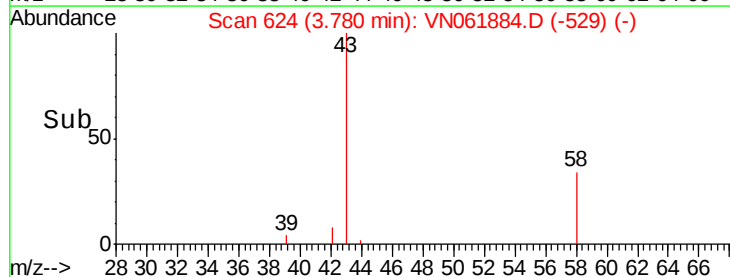
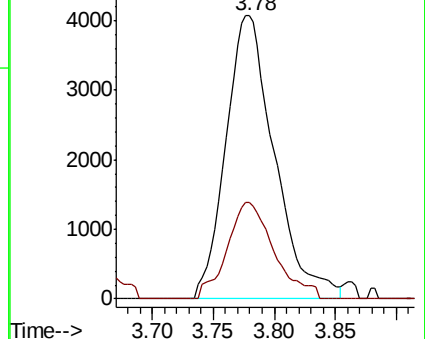
43 100

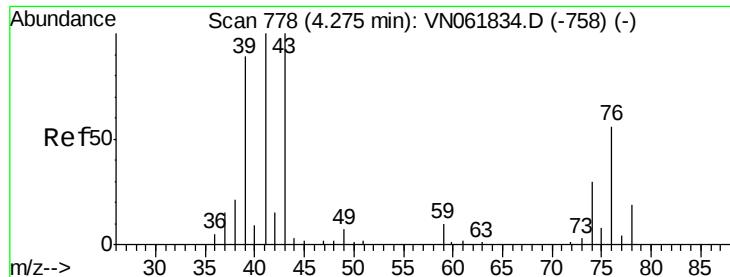
58 33.9 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

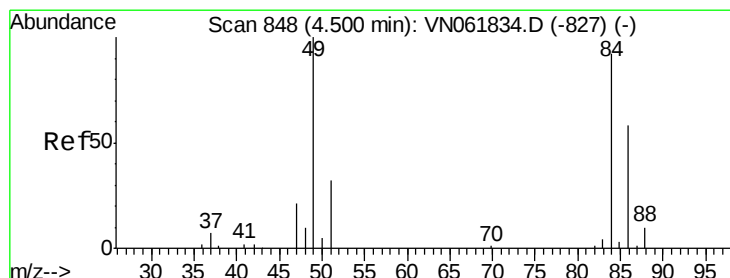
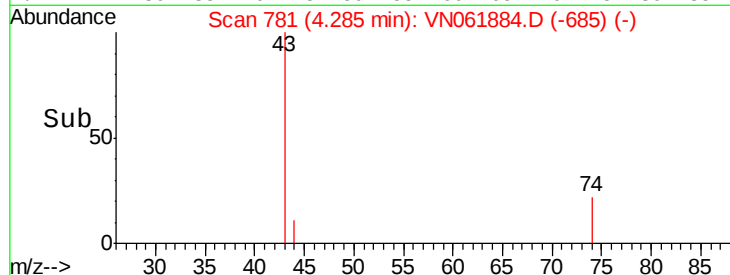
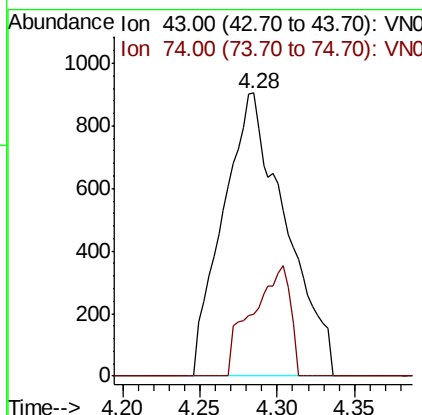
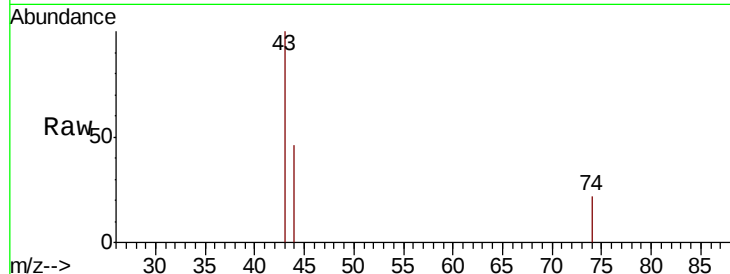




#18
Methvl Acetate
Concen: 1.611 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

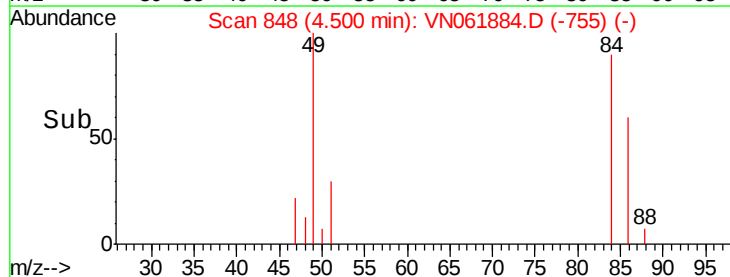
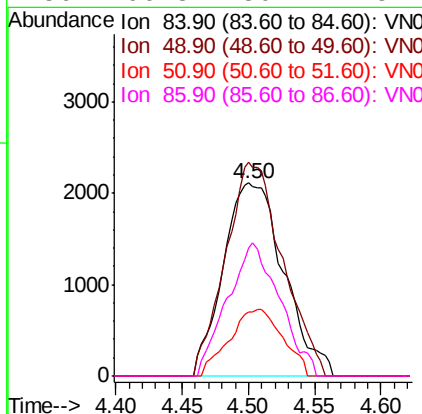
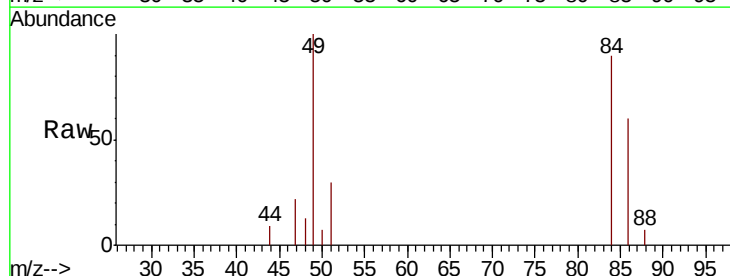
Instrument :
MSVOA_N
ClientSampleId :
OR-03-061520

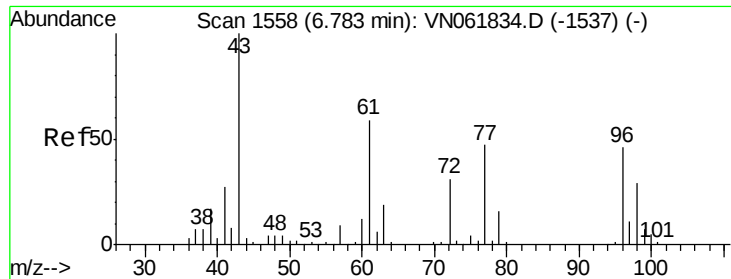
Tot Ion: 43 Resp: 2536
Ion Ratio Lower Upper
43 100
74 23.7 23.0 34.4



#20
Methylene Chloride
Concen: 3.770 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

Tgt Ion: 84 Resp: 6717
Ion Ratio Lower Upper
84 100
49 110.6 87.0 130.4
51 33.0 27.8 41.6
86 66.3 50.2 75.2

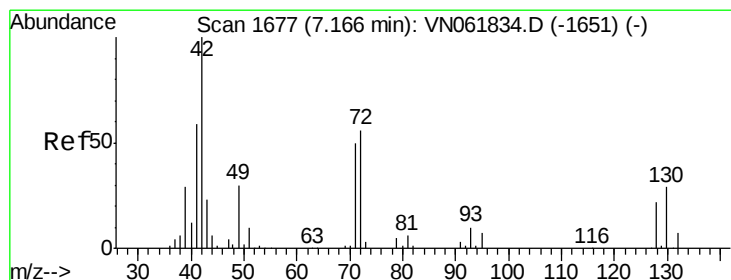
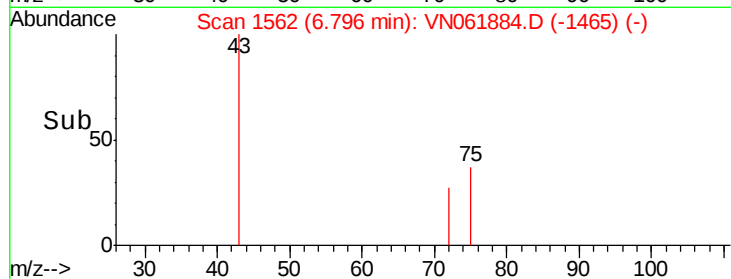
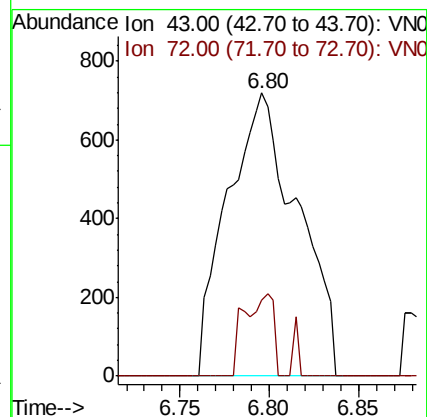
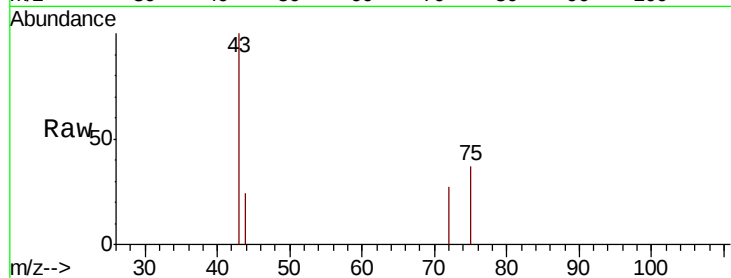




#25
2-Butanone
Concen: 2.473 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

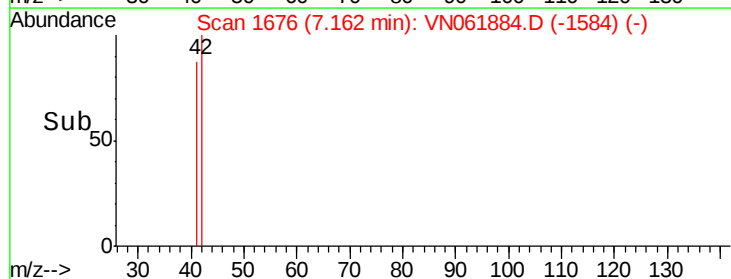
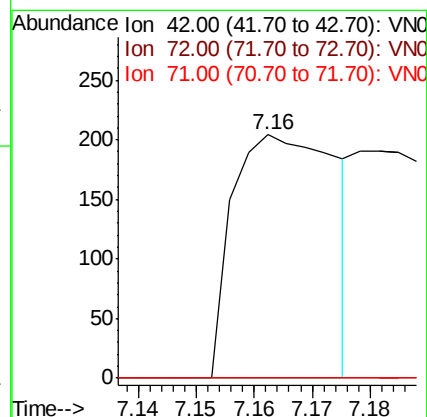
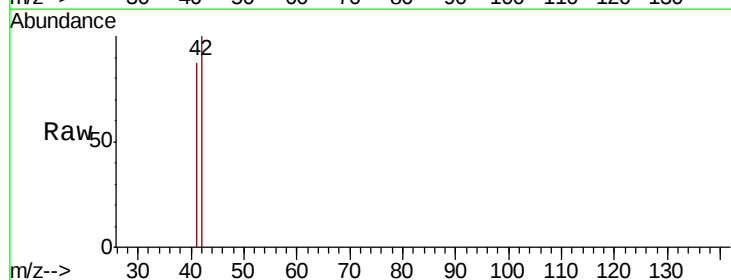
Instrument :
MSVOA_N
ClientSampleId :
OR-03-061520

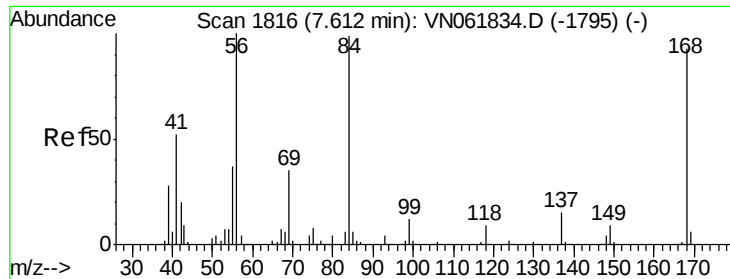
Tot Ion: 43 Resp: 1973
Ion Ratio Lower Upper
43 100
72 26.8 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.480 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

Tgt Ion: 42 Resp: 252
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

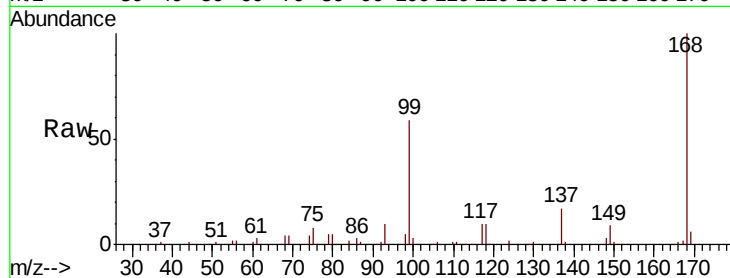




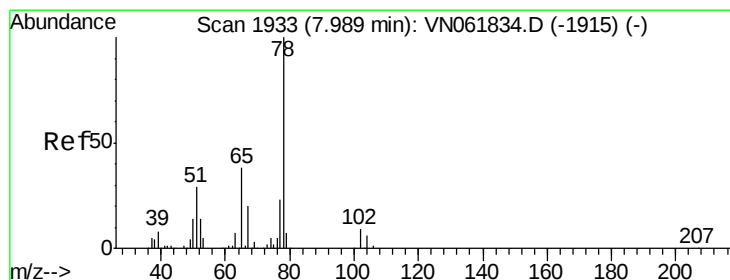
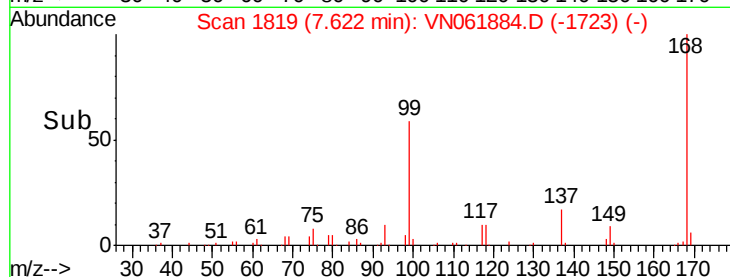
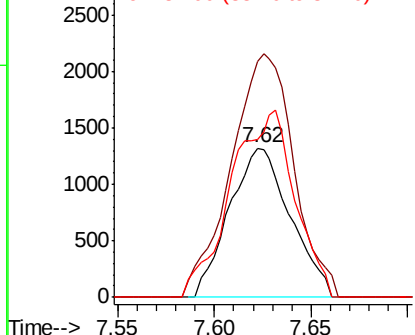
#31
Cyclohexane
Concen: 1.189 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

Instrument :
MSVOA_N
ClientSampleId :
OR-03-061520

Tot Ion: 56 Resp: 2900
Ion Ratio Lower Upper
56 100
69 158.0 27.7 41.5#
84 105.3 79.1 118.7

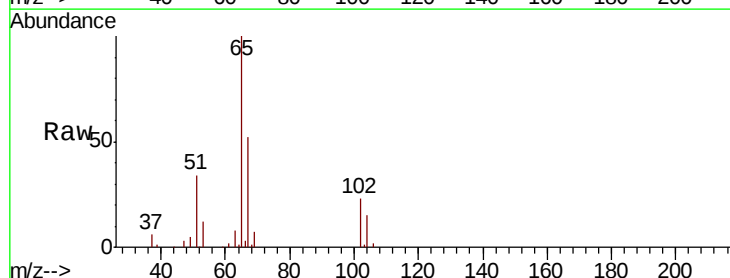


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

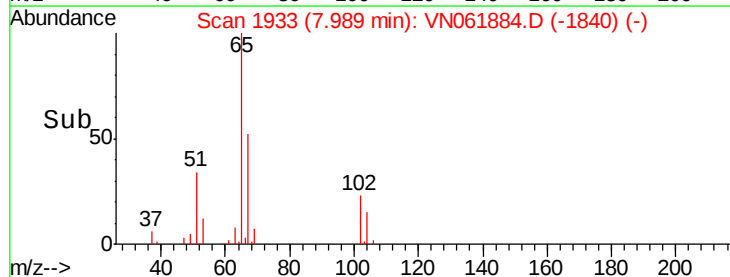
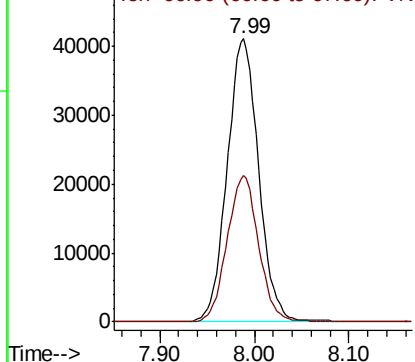


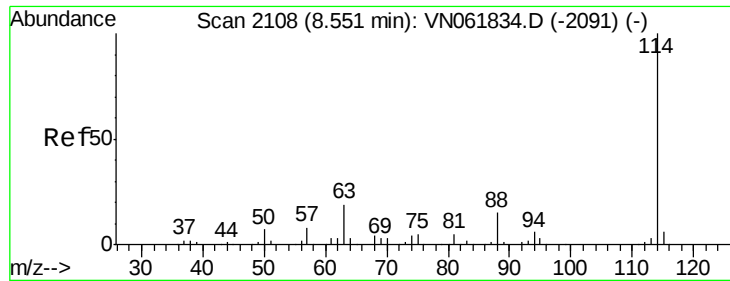
#33
1,2-Dichloroethane-d4
Concen: 51.198 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

Tgt Ion: 65 Resp: 94792
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

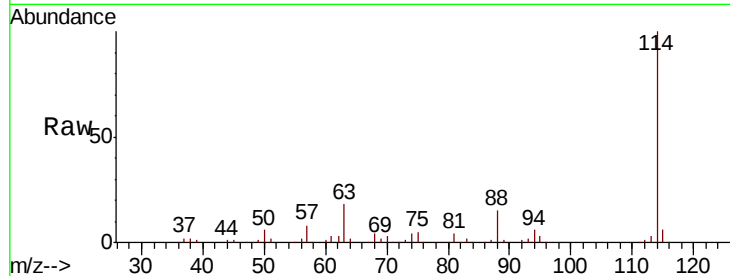




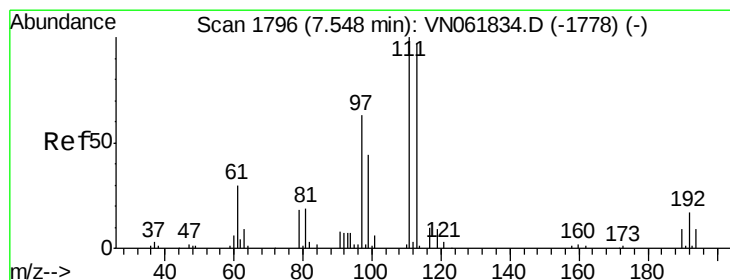
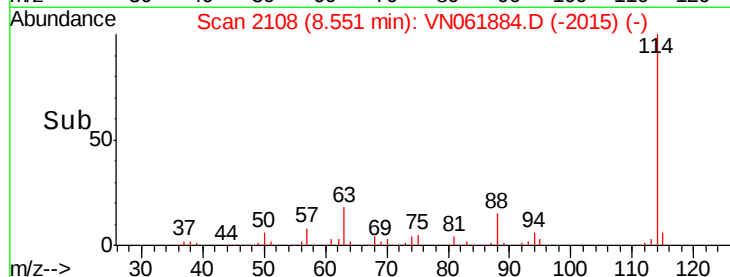
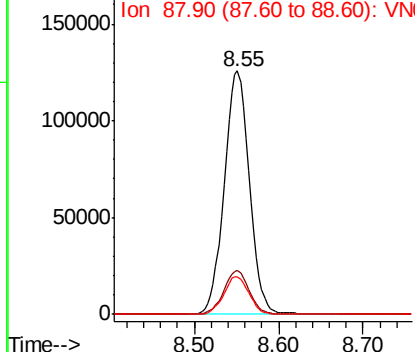
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Instrument :
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 ClientSampleId :
 OR-03-061520

Tot Ion:114 Resp: 260193
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 37.6
 88 15.5 0.0 31.0

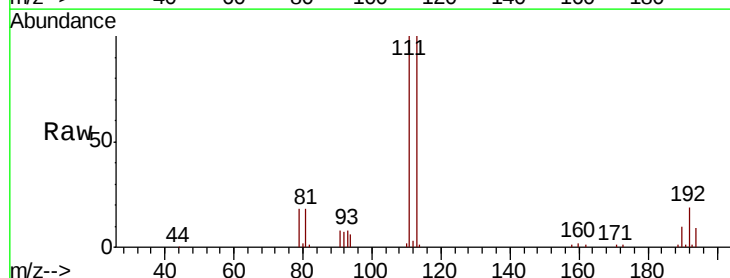


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

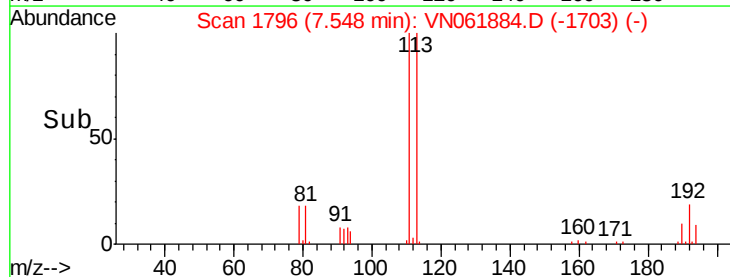
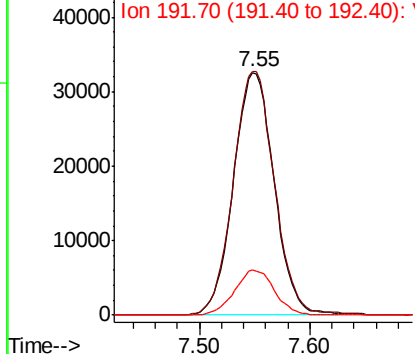


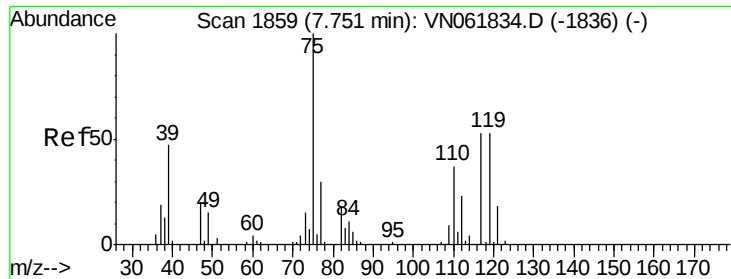
#35
 Dibromofluoromethane
 Concen: 49.971 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Tgt Ion:113 Resp: 83180
 Ion Ratio Lower Upper
 113 100
 111 101.3 83.7 125.5
 192 18.1 13.9 20.9



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

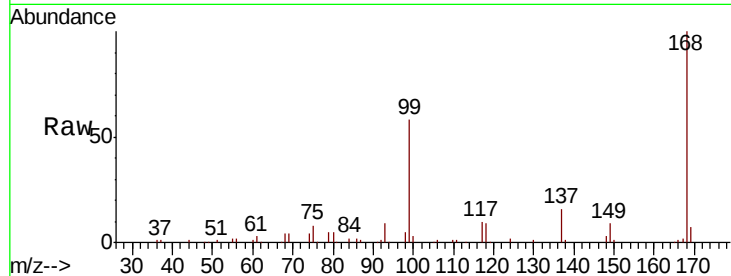




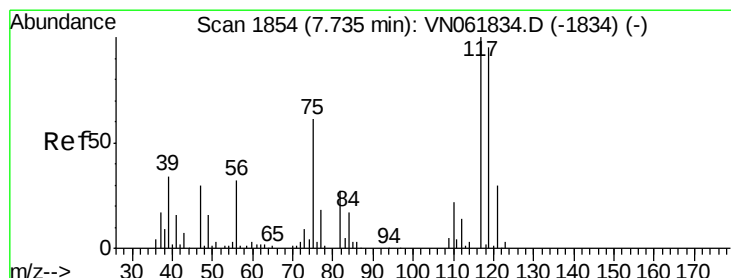
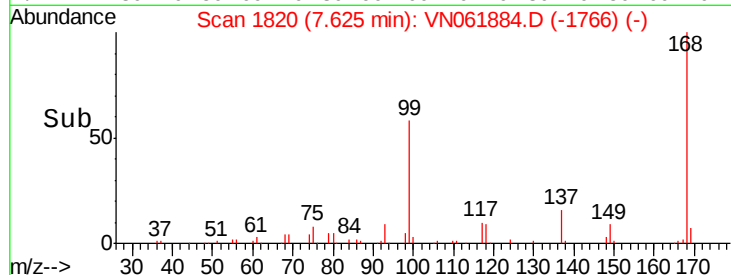
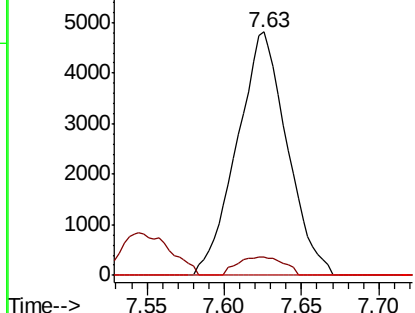
#36
 1,1-Dichloropropene
 Concen: 4.571 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Instrument :
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 OR-03-061520

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	18.2	54.6#
77	0.0	24.2	36.4#

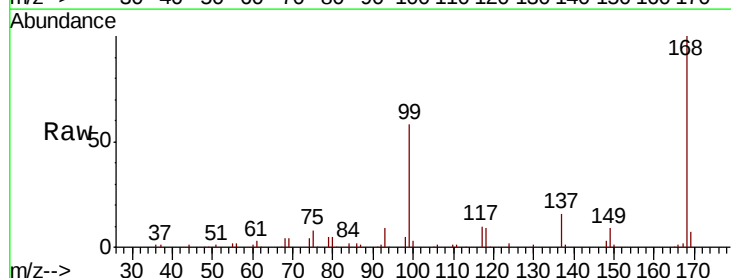


Abundance Ion 74.90 (74.60 to 75.60): VN061884.D (-1766) (-)
 Ion 109.90 (109.60 to 110.60): VN061884.D (-1766) (-)
 Ion 76.90 (76.60 to 77.60): VN061884.D (-1766) (-)

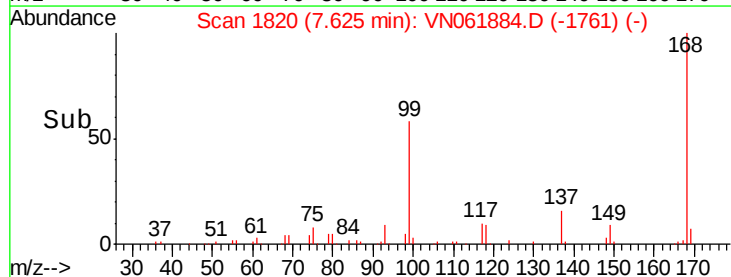
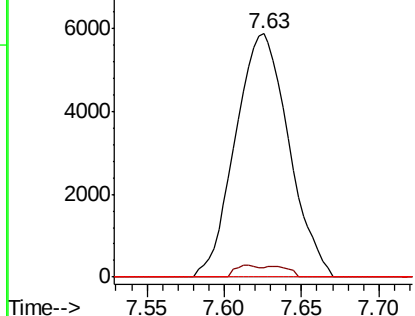


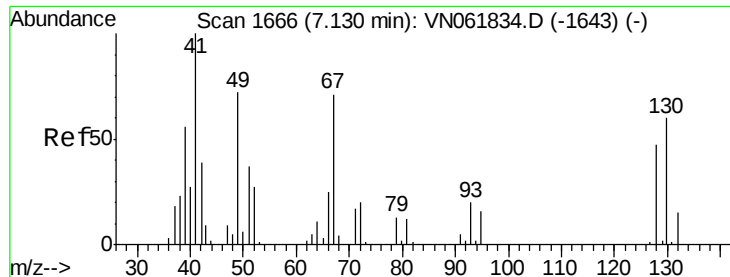
#38
 Carbon Tetrachloride
 Concen: 6.012 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	75.8	113.6#
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): VN061884.D (-1761) (-)
 Ion 118.80 (118.50 to 119.50): VN061884.D (-1761) (-)
 Ion 120.80 (120.50 to 121.50): VN061884.D (-1761) (-)

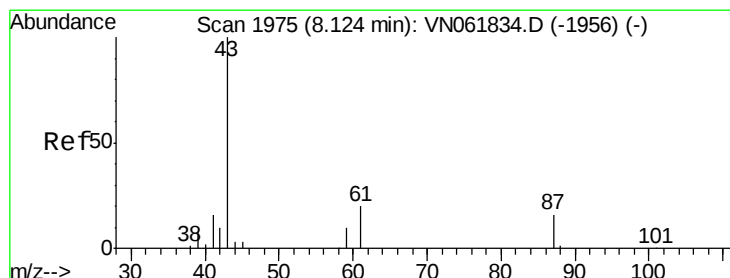
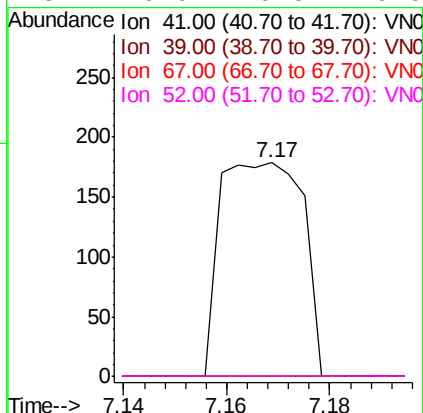
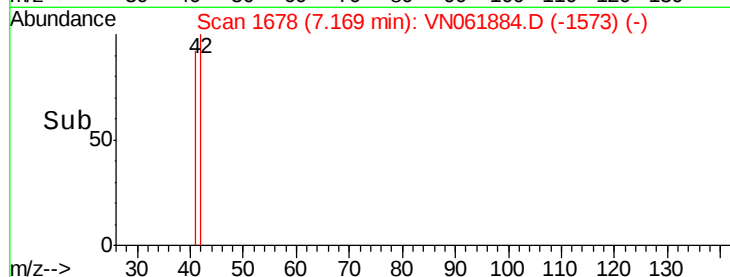
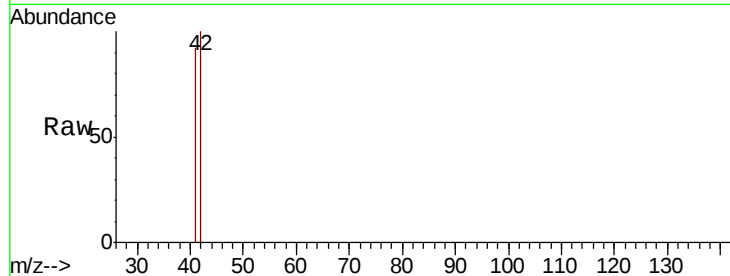




#41
Methacrylonitrile
Concen: 0.249 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.04 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

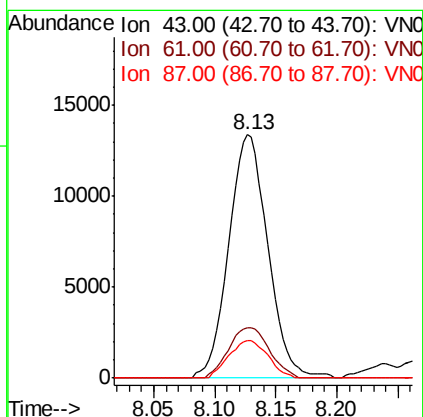
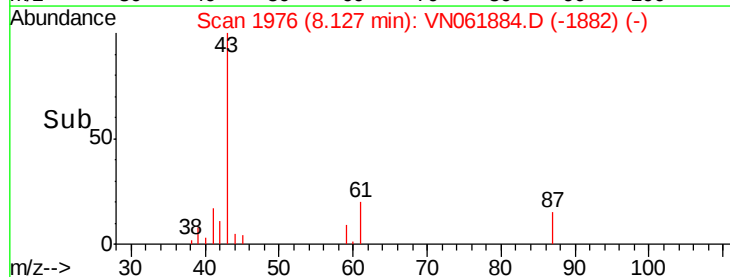
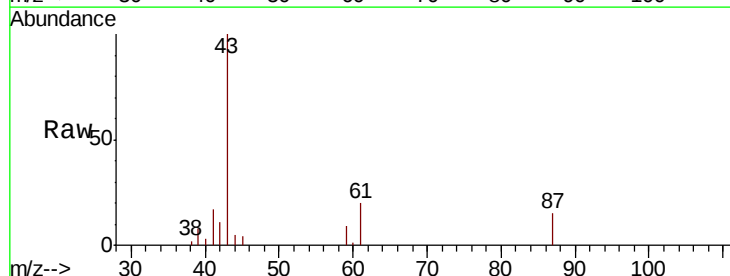
Instrument :
MSVOA_N
ClientSampled :
OR-03-061520

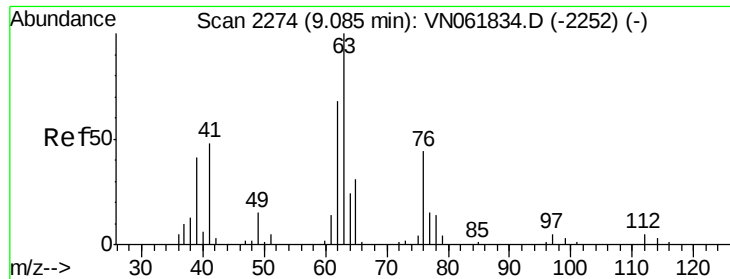
Tot Ion:	41	Resp:	197
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 9.528 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061884.D
Acq: 18 Jun 2020 6:17

Tgt Ion:	43	Resp:	29759
Ion	Ratio	Lower	Upper
43	100		
61	21.6	24.0	36.0#
87	15.5	12.5	18.7





#45

1,2-Dichloropropane

Concen: 0.324 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

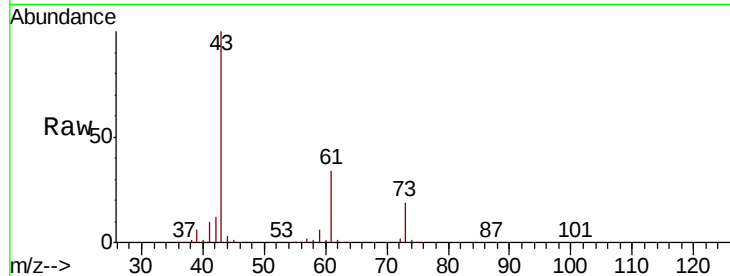
OR-03-061520

Tot Ion: 63 Resp: 572

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

400

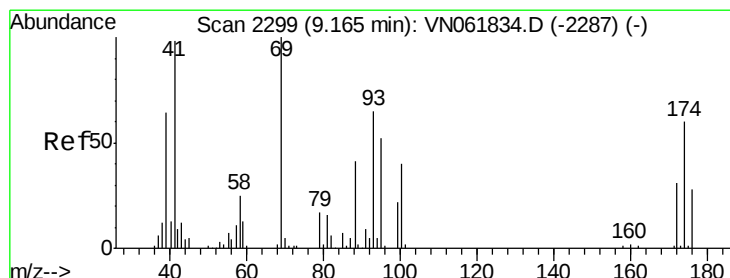
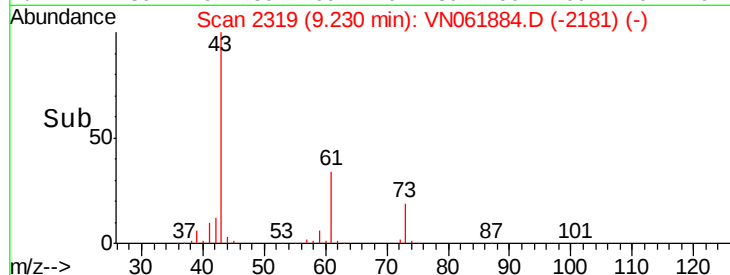
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.149 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

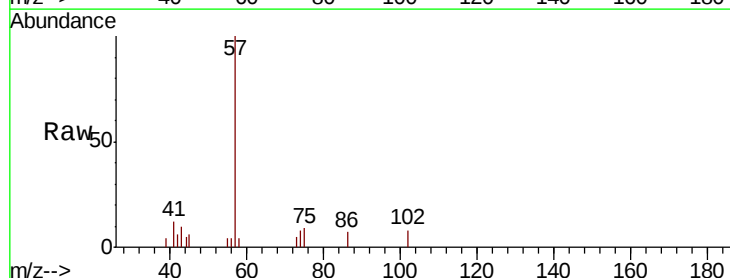
Tgt Ion: 41 Resp: 1632

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

39 0.0 55.1 82.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

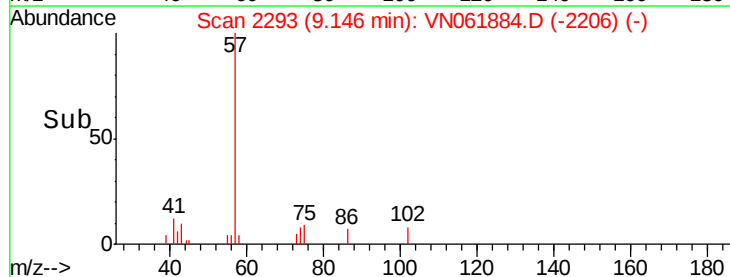
15000

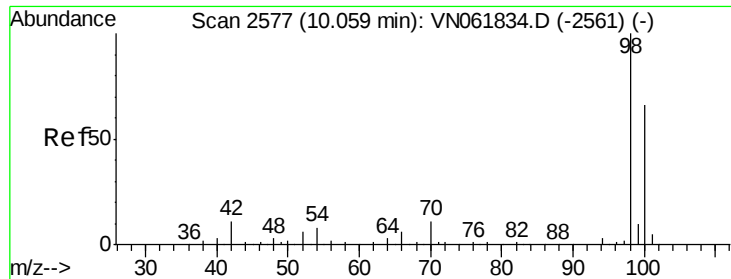
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 50.993 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

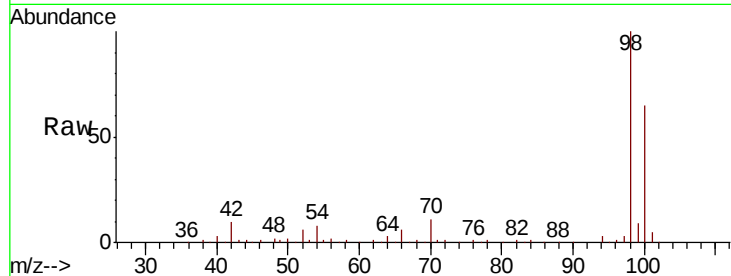
OR-03-061520

Tot Ion: 98 Resp: 333703

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

200000

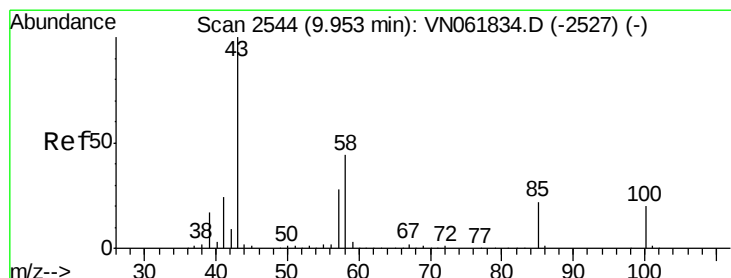
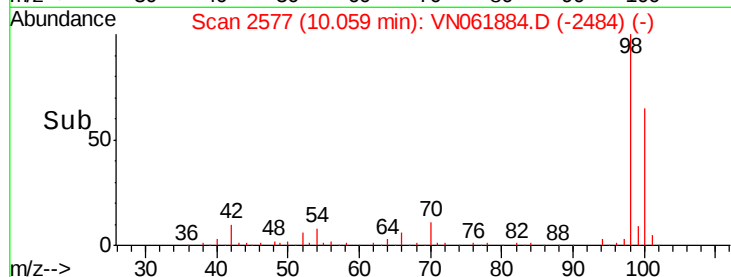
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.062 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061884.D

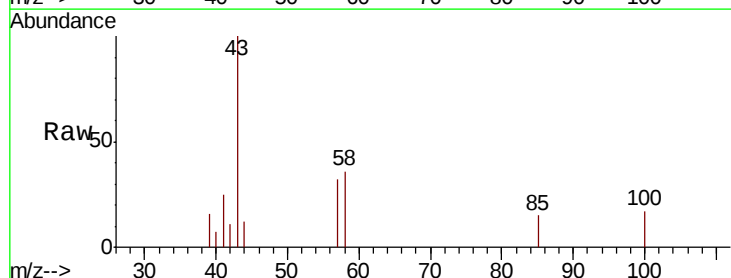
Acq: 18 Jun 2020 6:17

Tgt Ion: 43 Resp: 3806

Ion Ratio Lower Upper

43 100

58 42.8 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

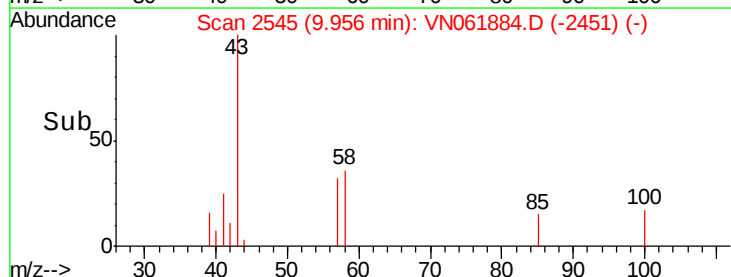
6000

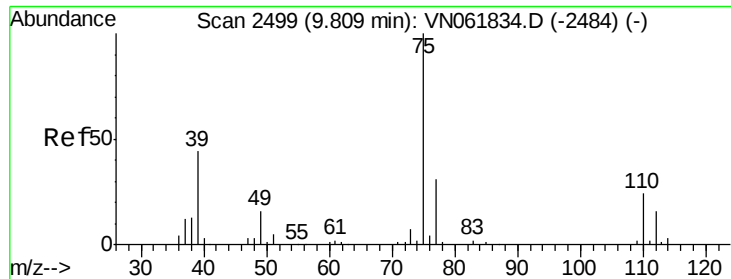
4000

2000

0

Time-->

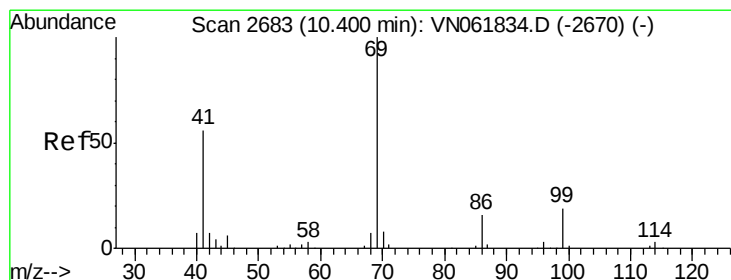
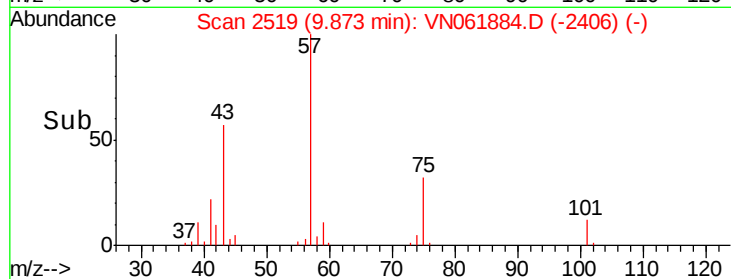
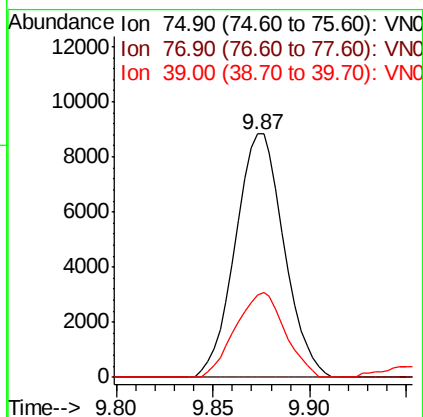
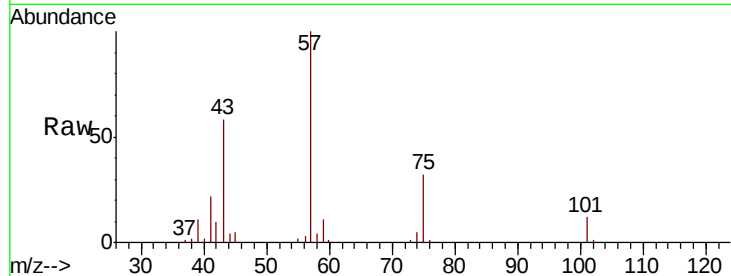




#54
 cis-1,3-Dichloropropene
 Concen: 5.253 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

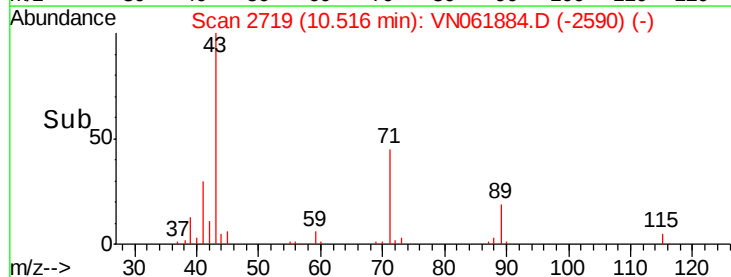
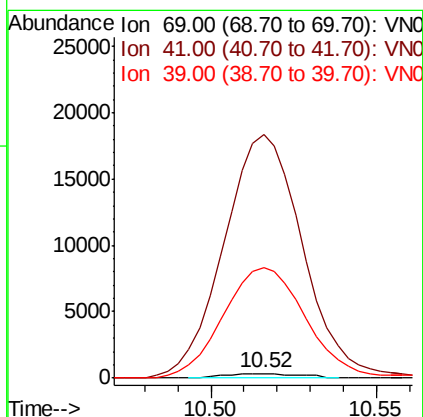
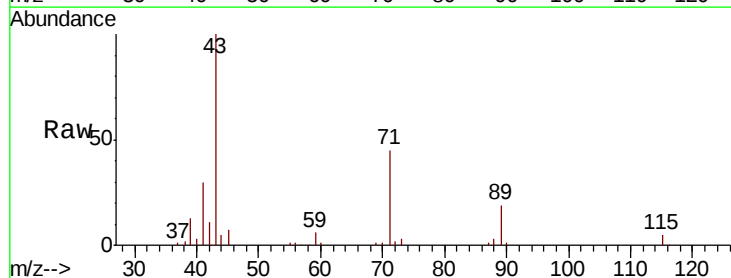
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-061520

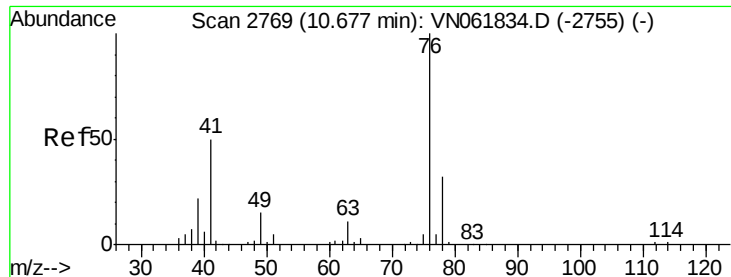
Tot Ion: 75 Resp: 15430
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 33.6 35.4 53.0#



#56
 Ethyl methacrylate
 Concen: 3.094 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Tgt Ion: 69 Resp: 553
 Ion Ratio Lower Upper
 69 100
 41 5564.2 44.9 67.3#
 39 2634.5 30.0 45.0#

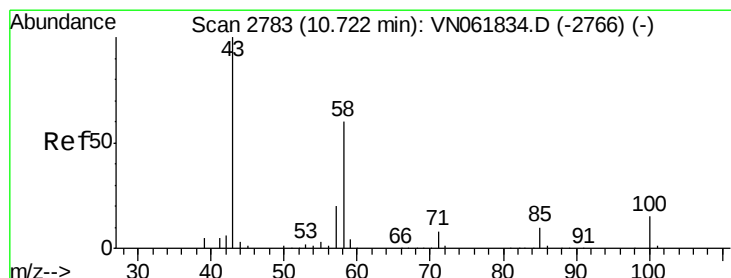
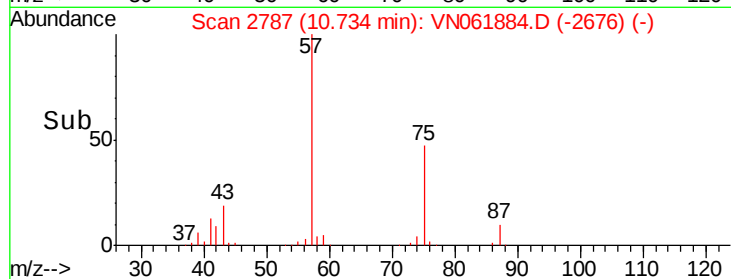
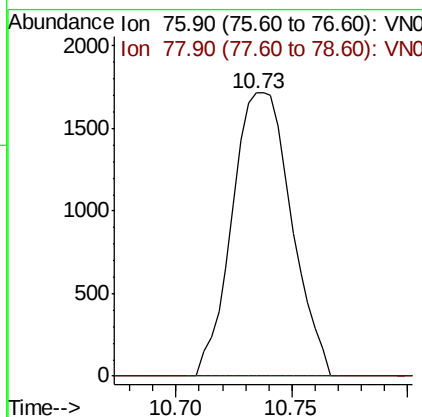
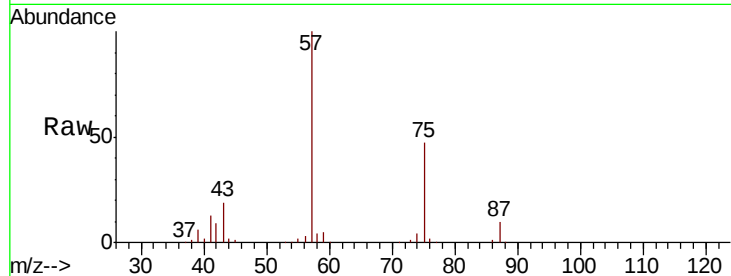




#57
 1,3-Dichloropropane
 Concen: 1.011 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

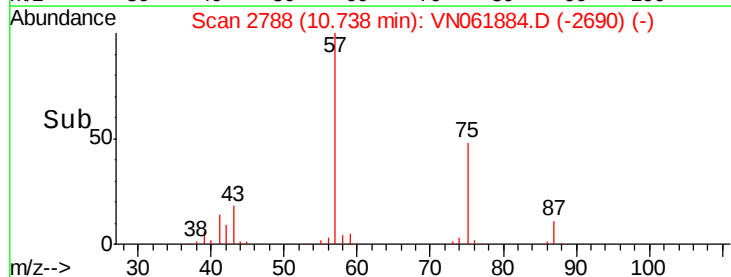
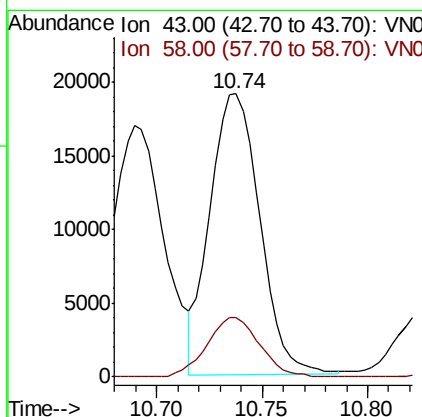
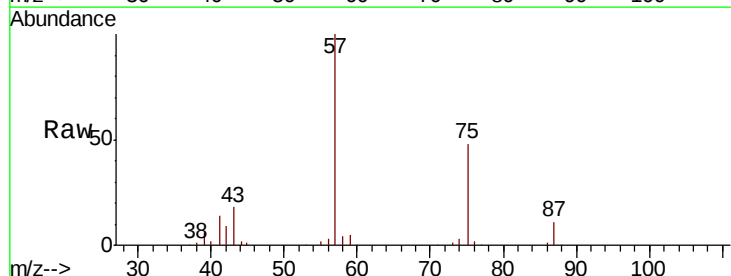
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-061520

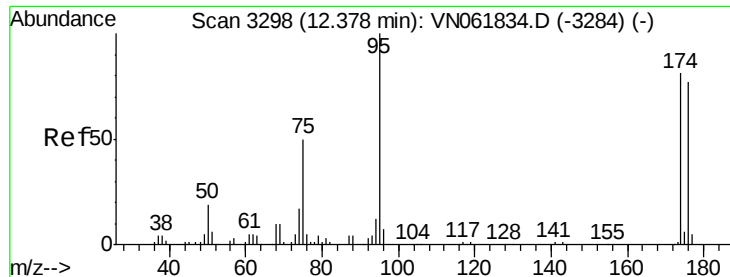
Tot Ion: 76 Resp: 3044
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 33.603 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061884.D
 Acq: 18 Jun 2020 6:17

Tgt Ion: 43 Resp: 31466
 Ion Ratio Lower Upper
 43 100
 58 22.1 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 48.922 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

OR-03-061520

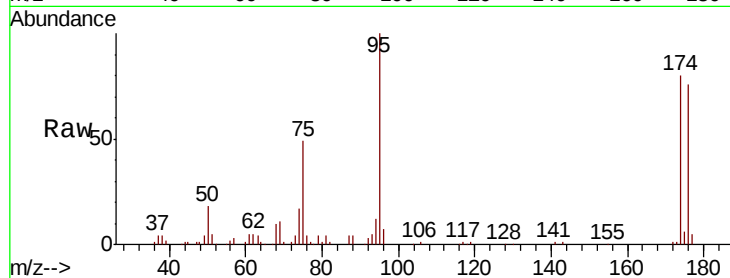
Tot Ion: 95 Resp: 109817

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.6

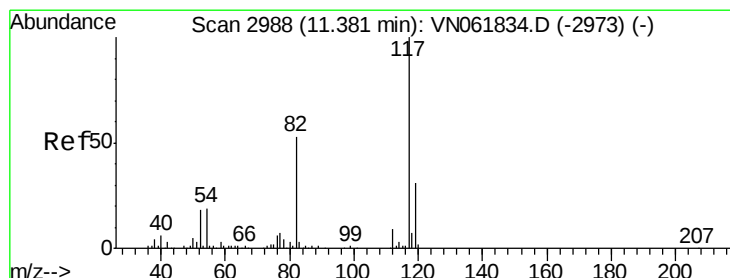
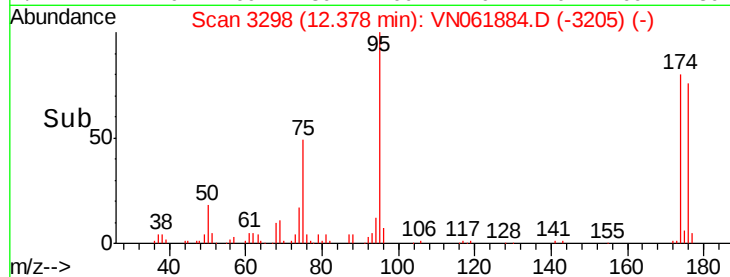
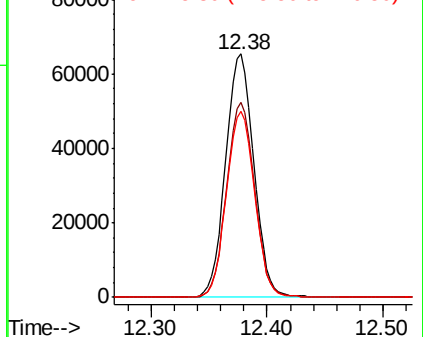
176 76.4 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061884.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061884.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061884.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

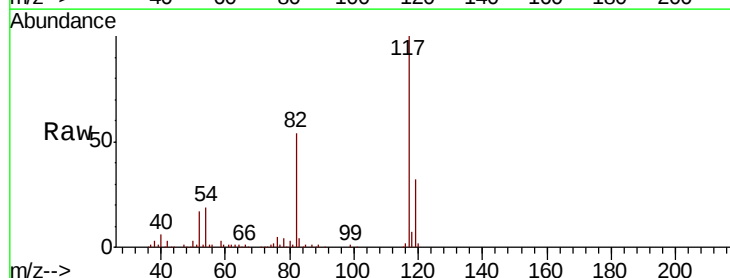
Tgt Ion: 117 Resp: 261468

Ion Ratio Lower Upper

117 100

82 54.0 42.6 64.0

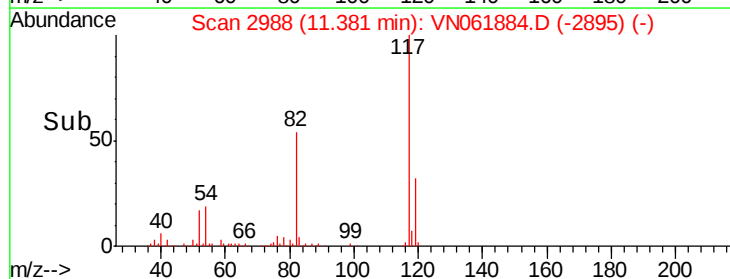
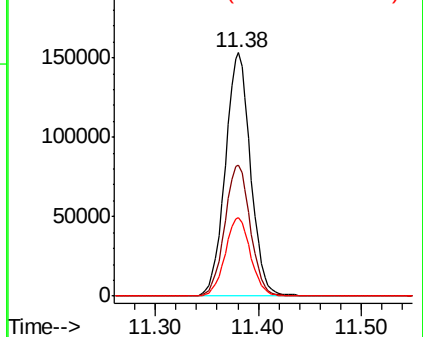
119 32.3 24.7 37.1

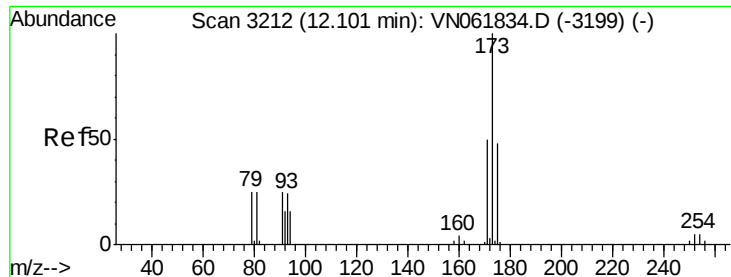


Abundance Ion 116.90 (116.60 to 117.60): VN061884.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061884.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061884.D (-2895) (-)





#71

Bromoform

Concen: 0.748 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

OR-03-061520

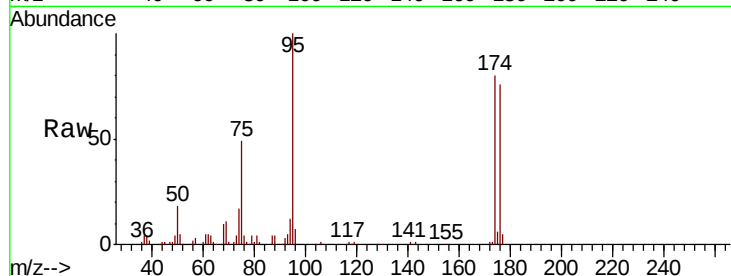
Tot Ion:173 Resp: 1050

Ion Ratio Lower Upper

173 100

175 544.2 23.9 71.7#

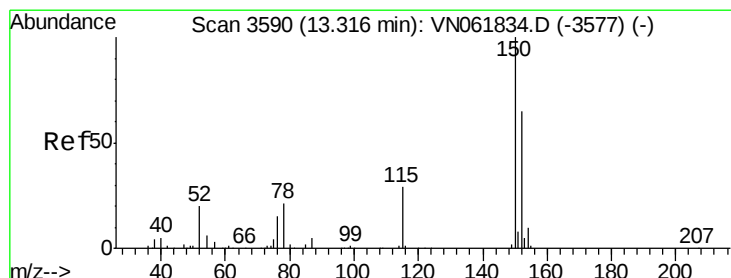
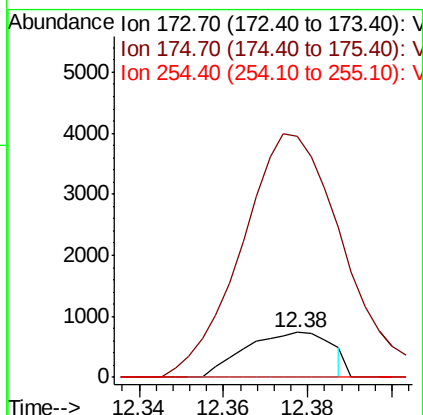
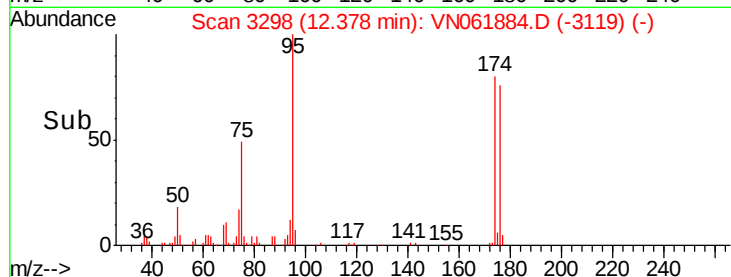
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

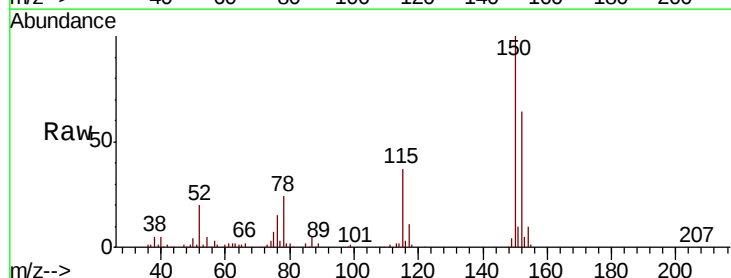
Tgt Ion:152 Resp: 99596

Ion Ratio Lower Upper

152 100

115 58.8 29.1 87.3

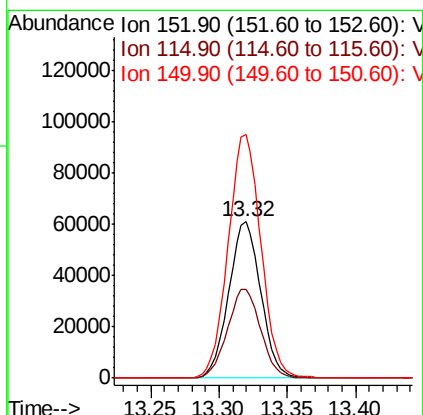
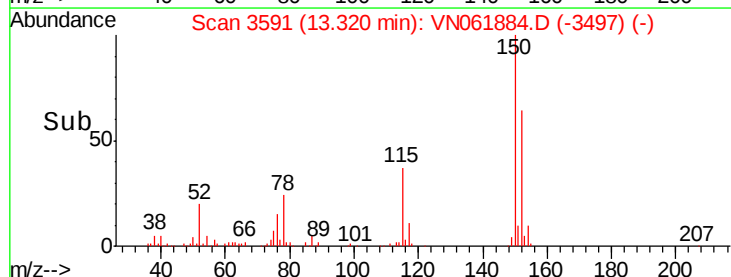
150 159.4 0.0 347.6

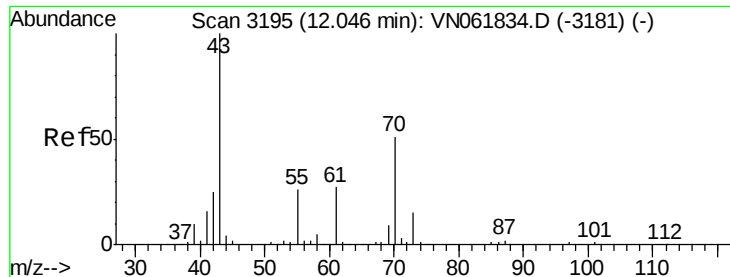


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.607 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

OR-03-061520

Tot Ion: 43 Resp: 1481

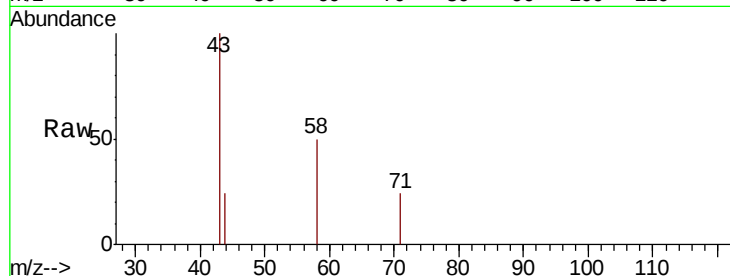
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

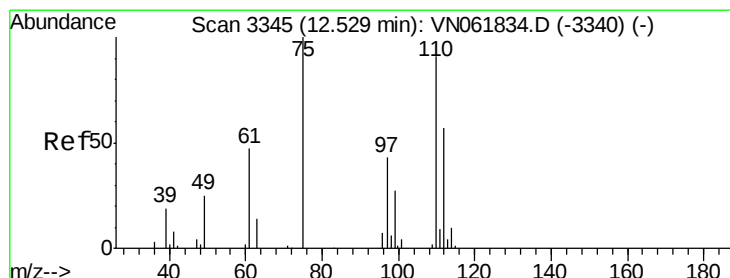
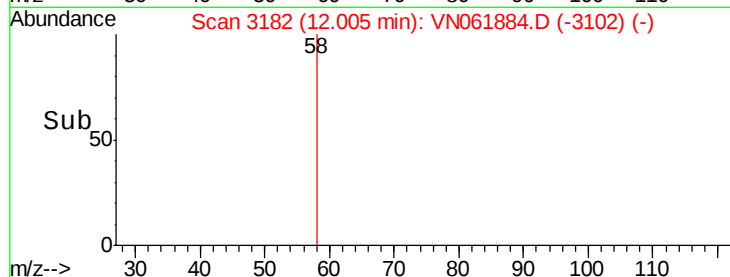
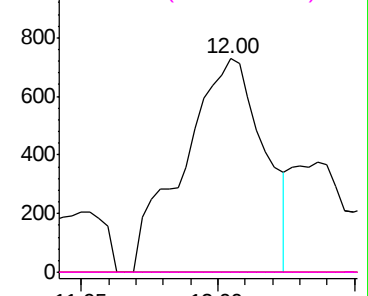


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.957 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061884.D

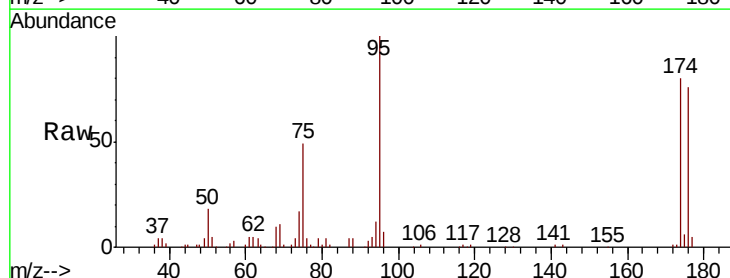
Acq: 18 Jun 2020 6:17

Tgt Ion: 75 Resp: 54665

Ion Ratio Lower Upper

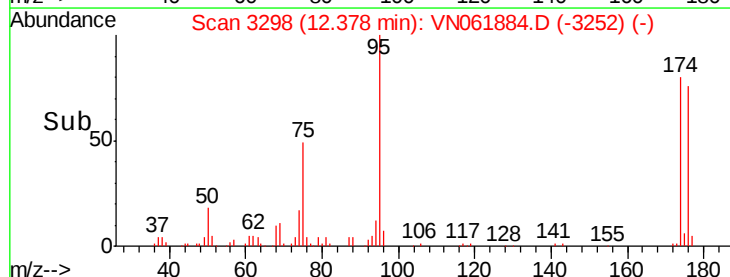
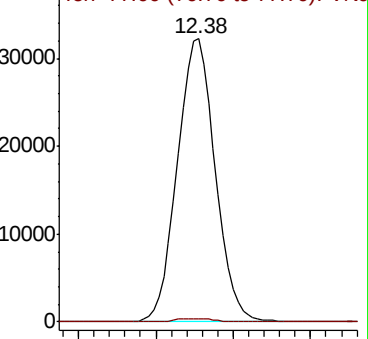
75 100

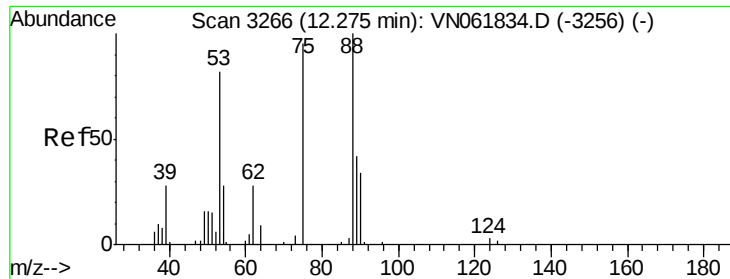
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.251 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

Instrument :

MSVOA_N

ClientSampleId :

OR-03-061520

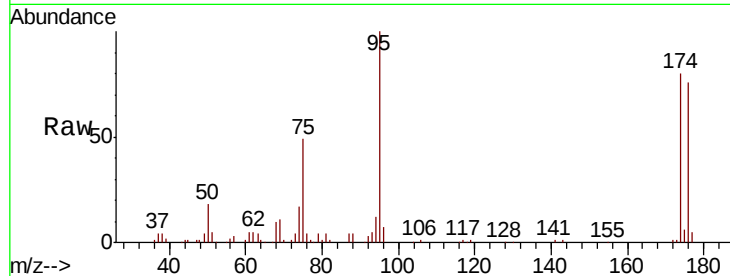
Tot Ion: 75 Resp: 54665

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

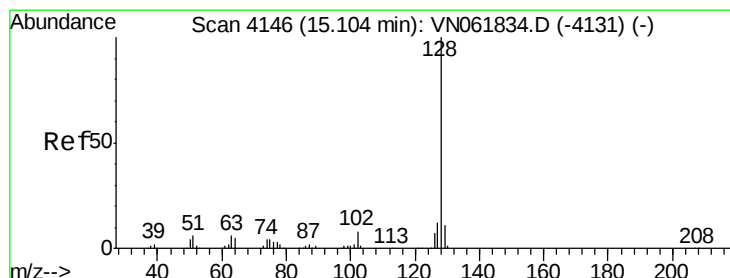
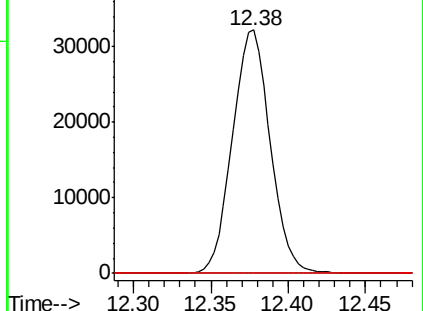
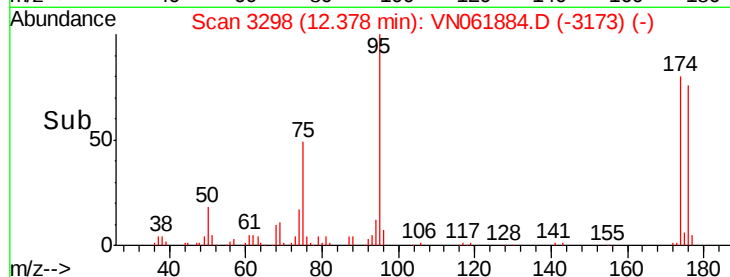
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#95

Naphthalene

Concen: 3.647 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN061884.D

Acq: 18 Jun 2020 6:17

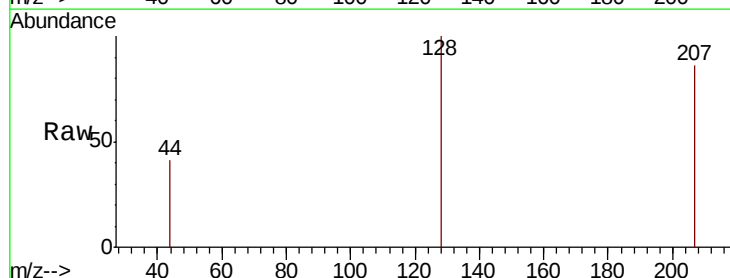
Tgt Ion: 128 Resp: 875

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

