

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082120\
 Data File : VN063083.D
 Acq On : 21 Aug 2020 16:15
 Operator : JC/MD
 Sample : L3506-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-082020

Quant Time: Aug 22 01:23:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	129209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	220407	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	238691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	88682	57.91	ug/l	0.00
Spiked Amount			Recovery	=	115.82%	
35) Dibromofluoromethane	7.55	113	75002	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
50) Toluene-d8	10.06	98	291302	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
62) 4-Bromofluorobenzene	12.38	95	102790	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	

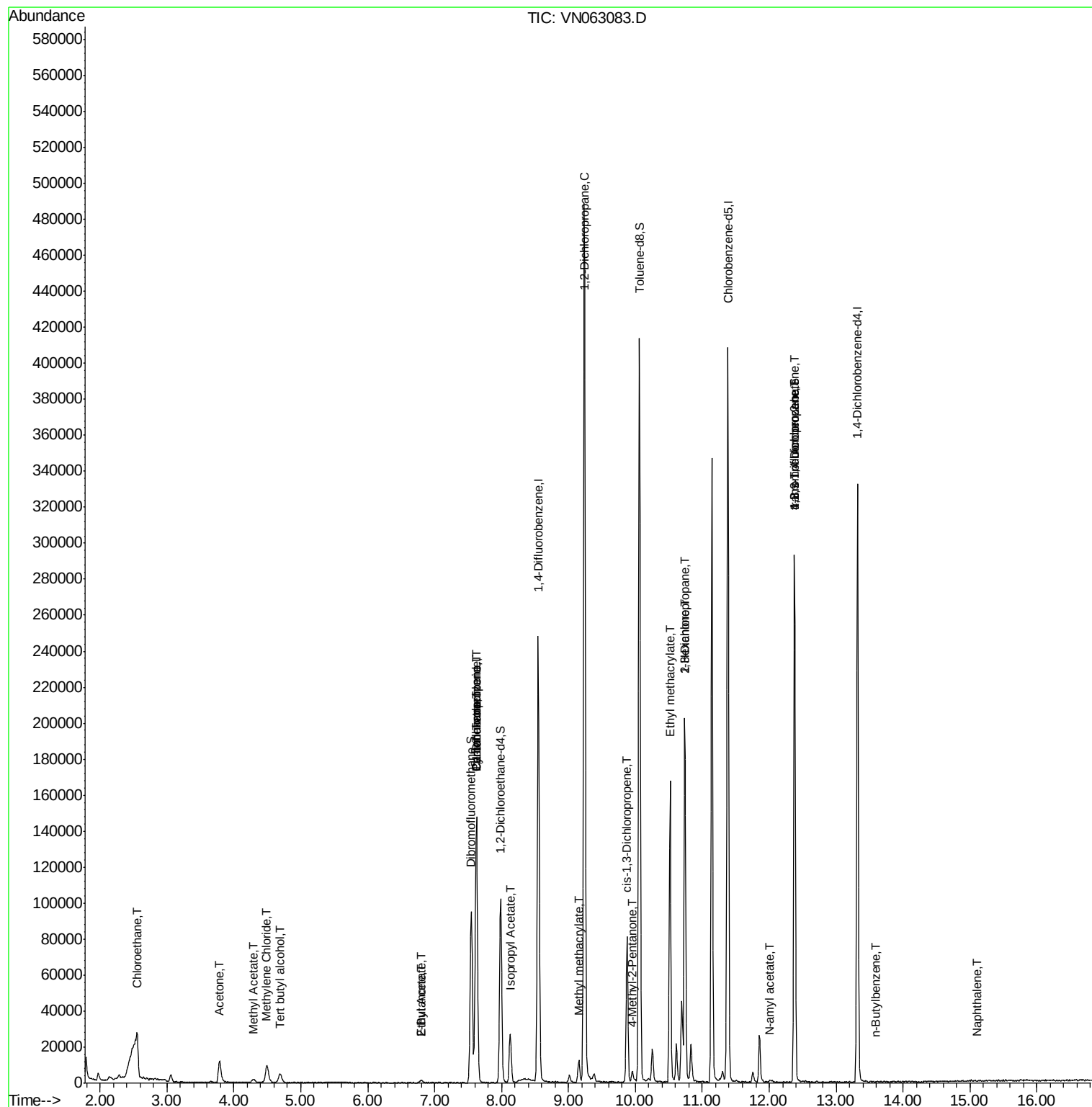
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.56	64	233	0.230	ug/l #	43
11) Tert butyl alcohol	4.69	59	5332	24.581	ug/l #	74
16) Acetone	3.79	43	22486	43.853	ug/l	96
18) Methyl Acetate	4.29	43	4103	2.696	ug/l #	70
20) Methylene Chloride	4.50	84	8530	5.119	ug/l	97
25) 2-Butanone	6.80	43	922	1.134	ug/l #	48
31) Cyclohexane	7.62	56	2320	1.028	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	9609	4.947	ug/l #	45
37) Ethyl Acetate	6.80	43	922	0.507	ug/l #	68
38) Carbon Tetrachloride	7.62	117	11526	5.878	ug/l #	18
43) Isopropyl Acetate	8.13	43	32106	10.648	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	496	0.279	ug/l #	43
48) Methyl methacrylate	9.15	41	1839	1.289	ug/l #	11
51) 4-Methyl-2-Pentanone	9.96	43	3716	1.950	ug/l	92
54) cis-1,3-Dichloropropene	9.88	75	14532	5.685	ug/l #	66
56) Ethyl methacrylate	10.52	69	1267	2.239	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2121	0.804	ug/l #	42
59) 2-Hexanone	10.74	43	28783	21.651	ug/l #	52
74) N-amyl acetate	12.01	43	793	0.342	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	49804	27.121	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	49804	74.487	ug/l #	15
89) n-Butylbenzene	13.60	91	59	2.781	ug/l #	34
95) Naphthalene	15.11	128	341	5.723	ug/l #	69

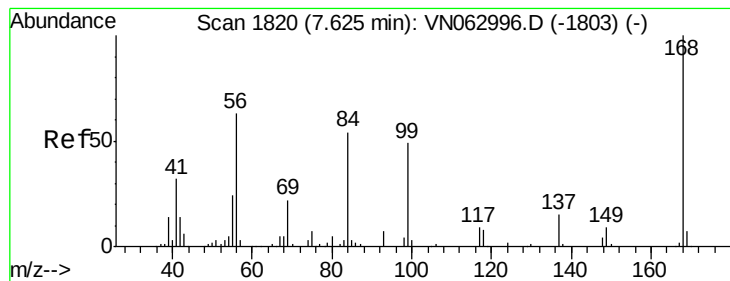
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082120\
Data File : VN063083.D
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

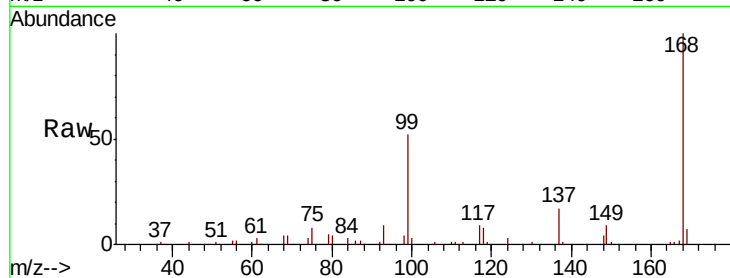
OR-03-082020

Tot Ion:168 Resp: 129209

Ion Ratio Lower Upper

168 100

99 51.8 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

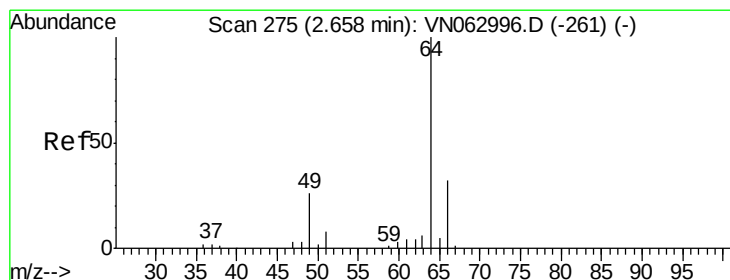
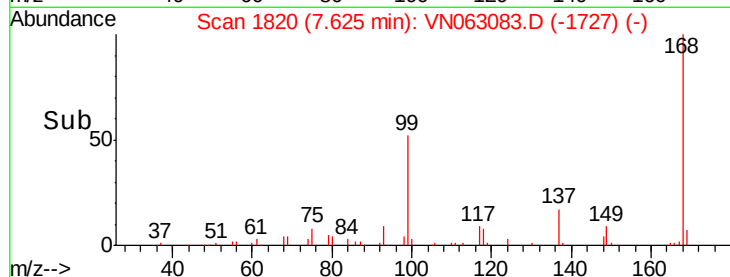
30000

20000

10000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#6

Chloroethane

Concen: 0.230 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.10 min

Lab File: VN063083.D

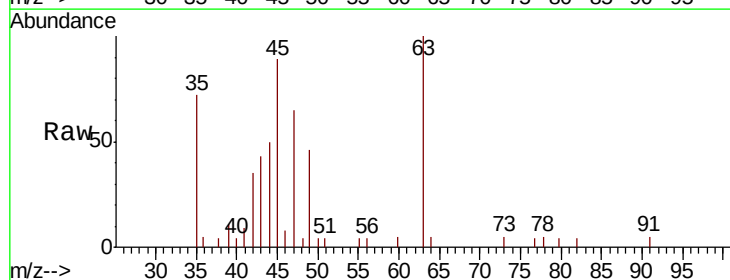
Acq: 21 Aug 2020 16:15

Tgt Ion: 64 Resp: 233

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VN

Ion 65.90 (65.60 to 66.60): VN

2.56

250

200

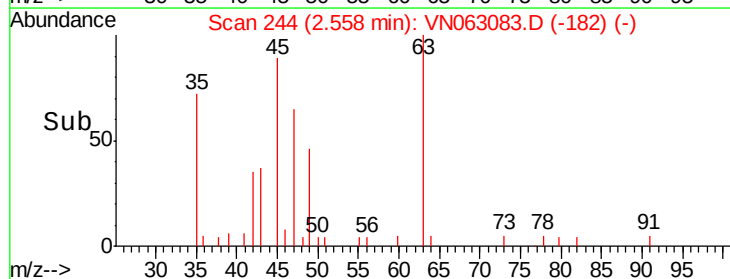
150

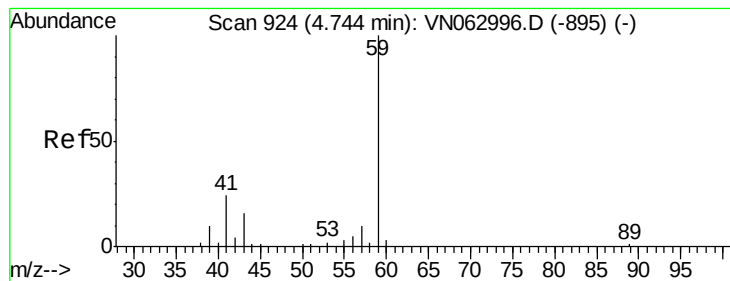
100

50

0

Time--> 2.54 2.55 2.56 2.57 2.58





#11

Tert butyl alcohol

Concen: 24.581 ug/l

RT: 4.69 min Scan# 907

Delta R.T. -0.05 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

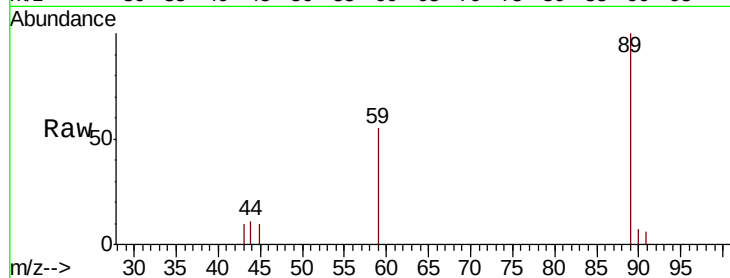
OR-03-082020

Tot Ion: 59 Resp: 5332

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN062996.D (-895) (-)

Ion 57.00 (56.70 to 57.70): VN062996.D (-895) (-)

4.69

1500

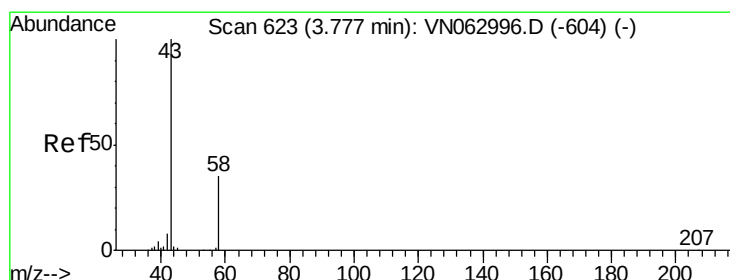
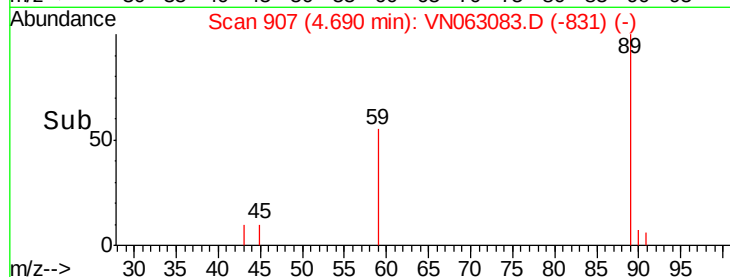
1000

500

0

4.60 4.65 4.70 4.75

Time-->



#16

Acetone

Concen: 43.853 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN063083.D

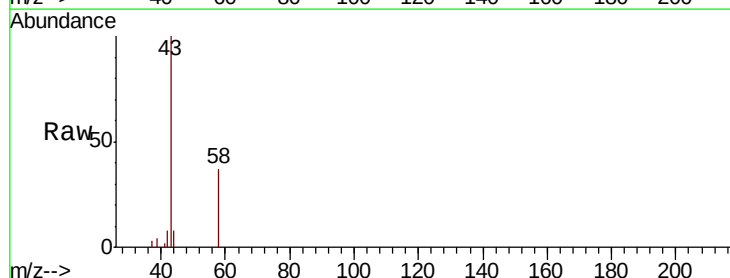
Acq: 21 Aug 2020 16:15

Tgt Ion: 43 Resp: 22486

Ion Ratio Lower Upper

43 100

58 37.0 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-604) (-)

3.79

8000

6000

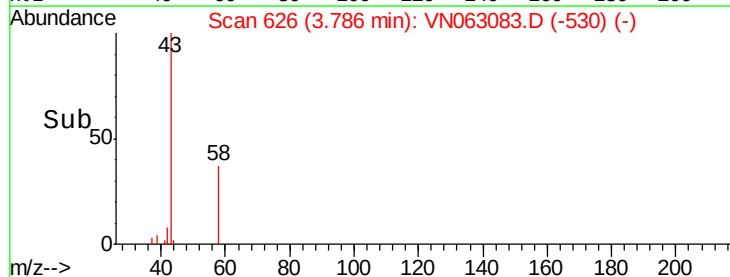
4000

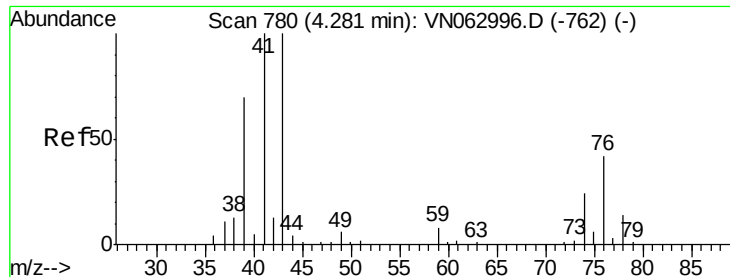
2000

0

3.70 3.75 3.80 3.85 3.90

Time-->

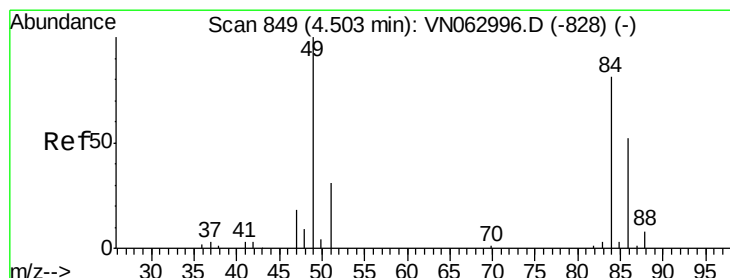
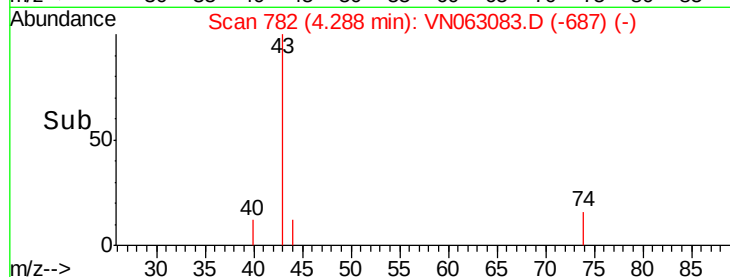
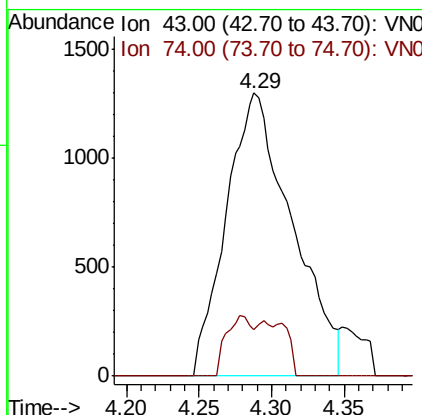
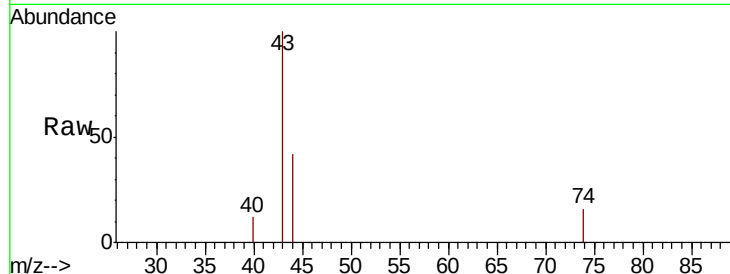




#18
Methvl Acetate
Concen: 2.696 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

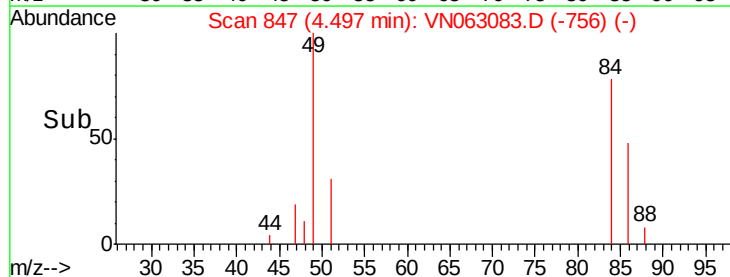
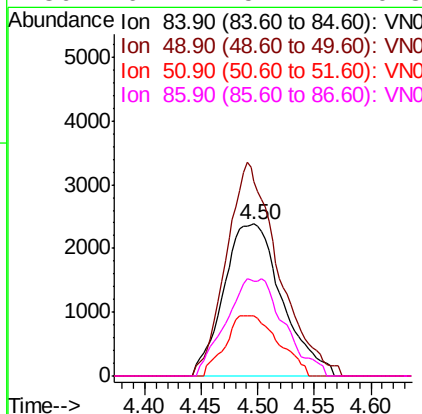
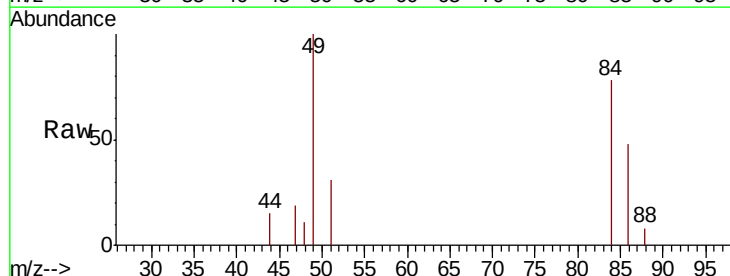
Instrument :
MSVOA_N
ClientSampled :
OR-03-082020

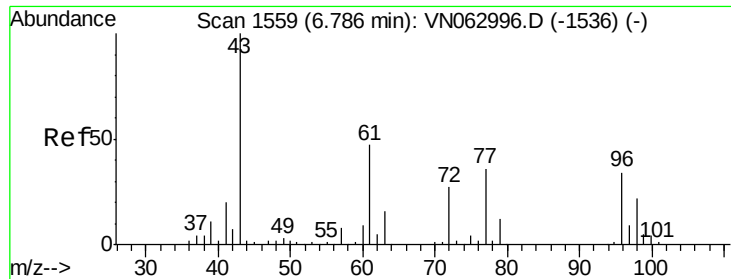
Tot Ion: 43 Resp: 4103
Ion Ratio Lower Upper
43 100
74 8.6 18.6 28.0#



#20
Methylene Chloride
Concen: 5.119 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.01 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Tgt Ion: 84 Resp: 8530
Ion Ratio Lower Upper
84 100
49 128.1 98.7 148.1
51 39.2 30.8 46.2
86 62.1 51.2 76.8

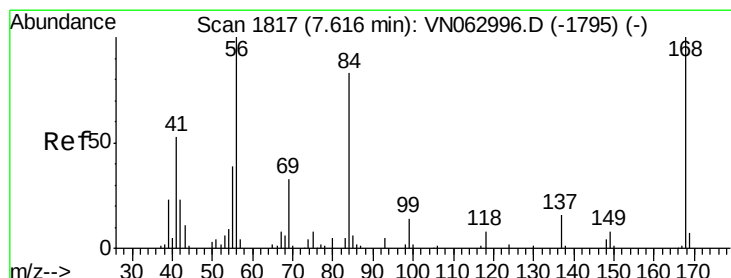
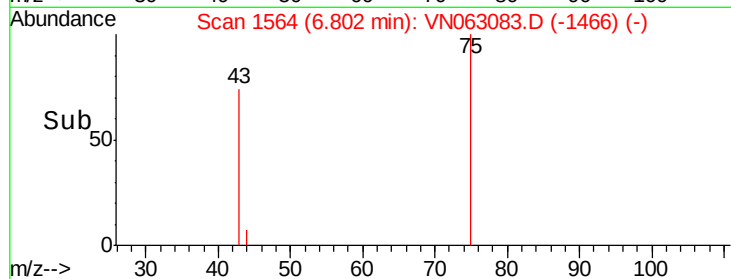
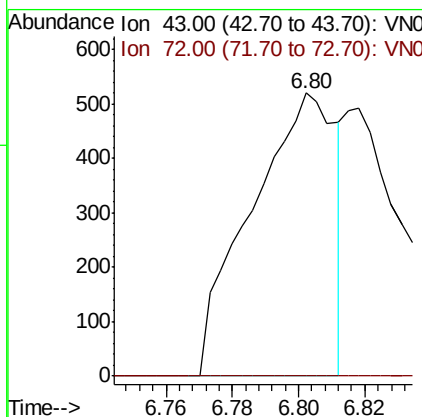
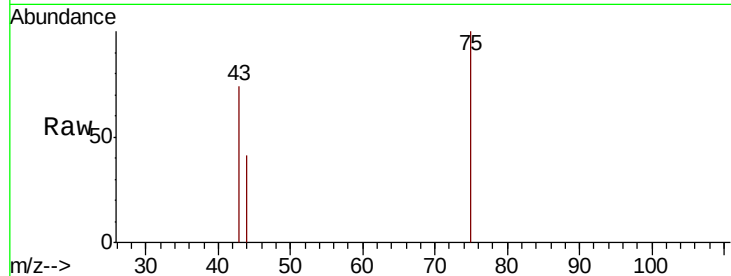




#25
2-Butanone
Concen: 1.134 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

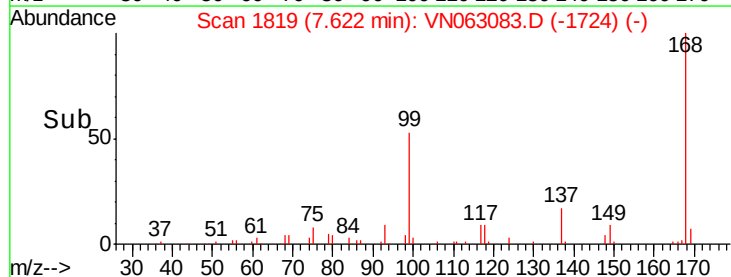
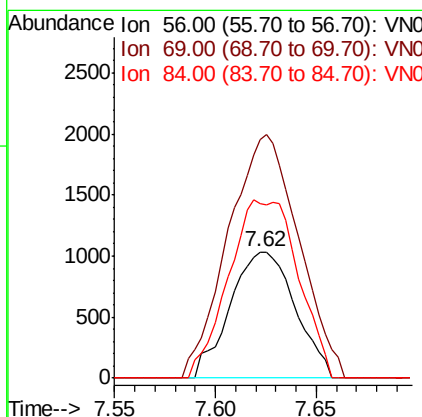
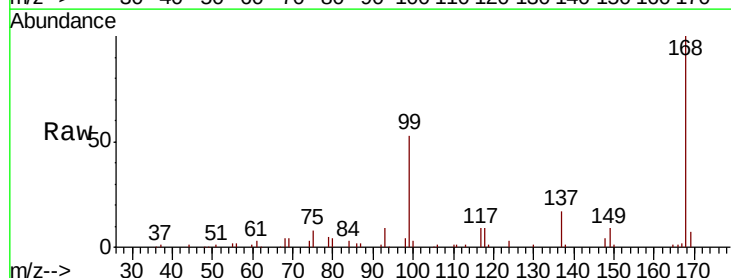
Instrument :
MSVOA_N
ClientSampleId :
OR-03-082020

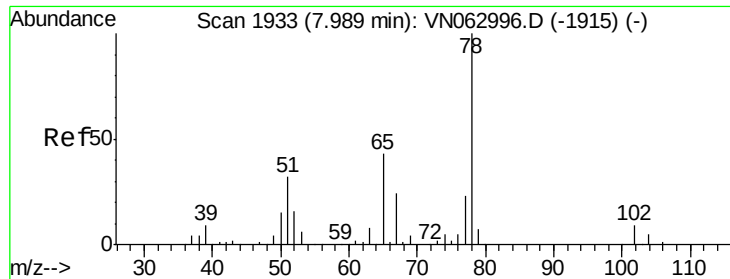
Tot Ion: 43 Resp: 922
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#



#31
Cyclohexane
Concen: 1.028 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Tgt Ion: 56 Resp: 2320
Ion Ratio Lower Upper
56 100
69 174.0 26.6 40.0#
84 138.7 66.4 99.6#

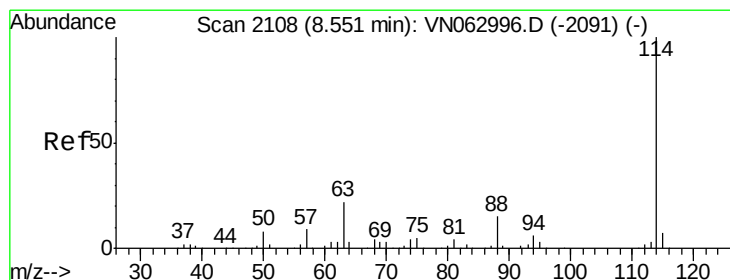
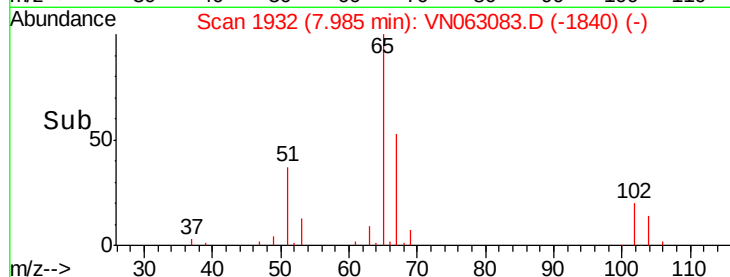
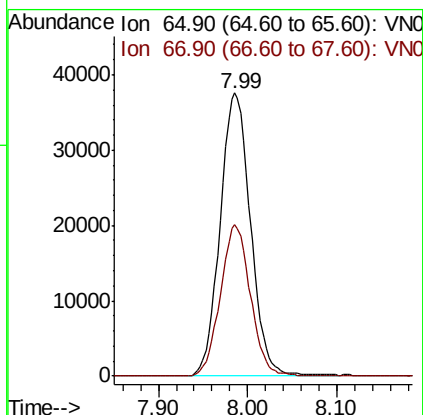
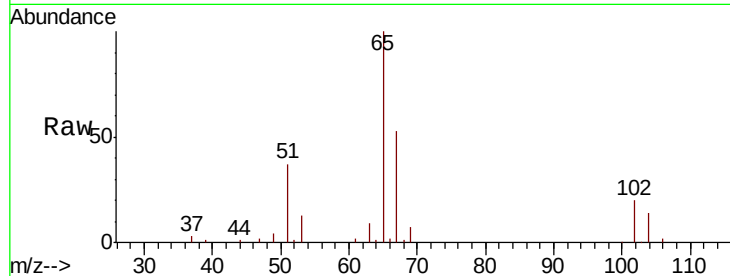




#33
 1,2-Dichloroethane-d4
 Concen: 57.910 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN063083.D
 Acq: 21 Aug 2020 16:15

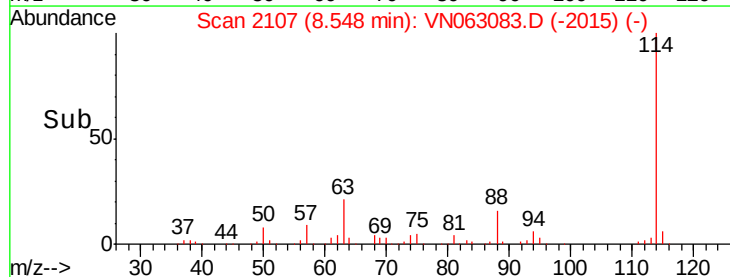
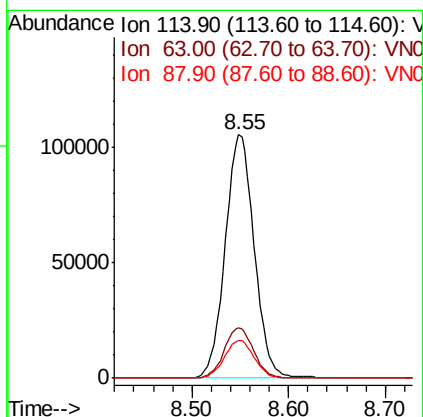
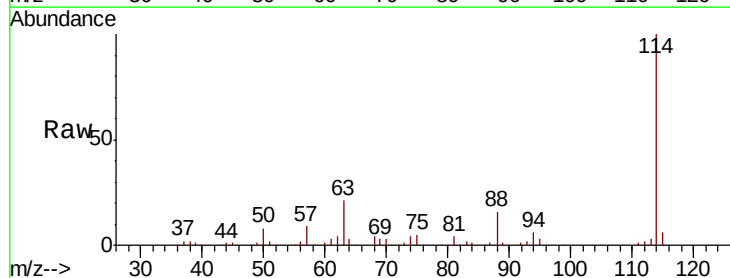
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 OR-03-082020

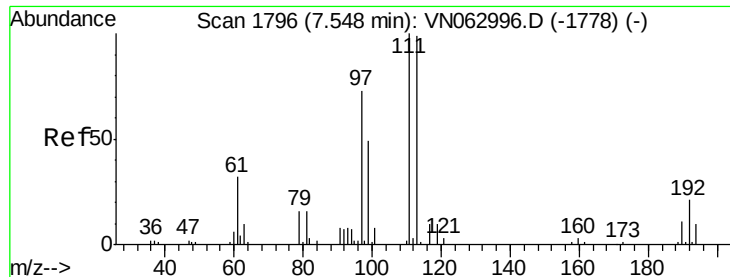
Tot Ion: 65 Resp: 88682
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN063083.D
 Acq: 21 Aug 2020 16:15

Tgt Ion: 114 Resp: 220407
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 15.7 0.0 30.6

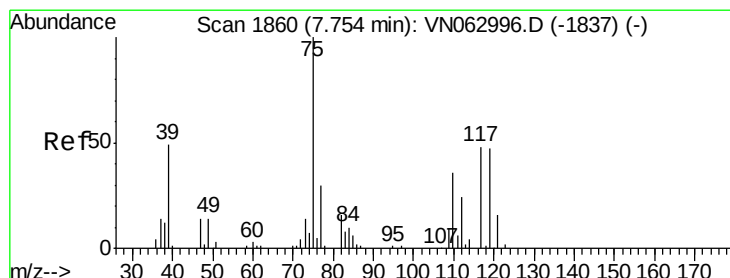
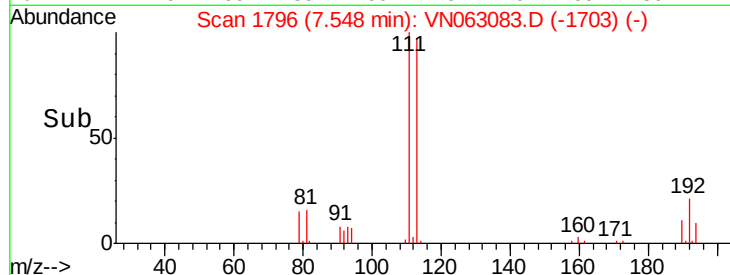
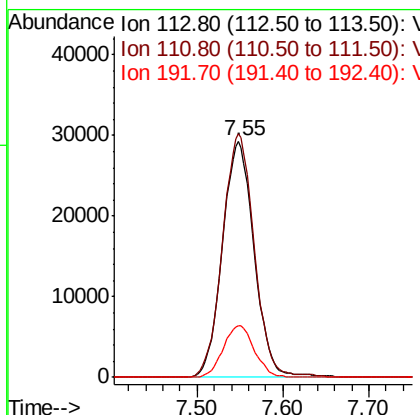
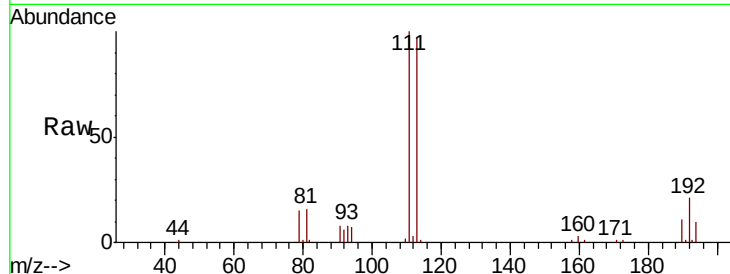




#35
 Dibromofluoromethane
 Concen: 52.224 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063083.D
 Acq: 21 Aug 2020 16:15

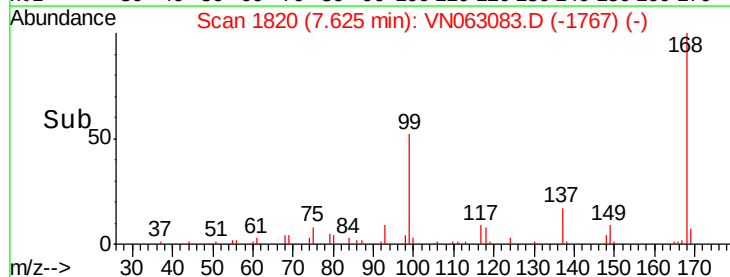
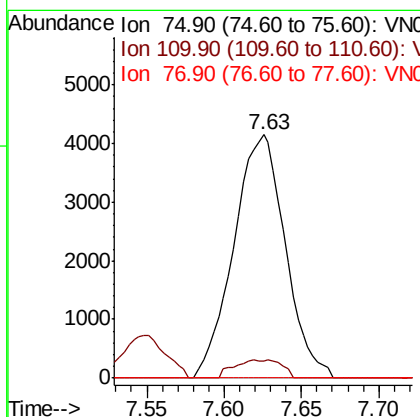
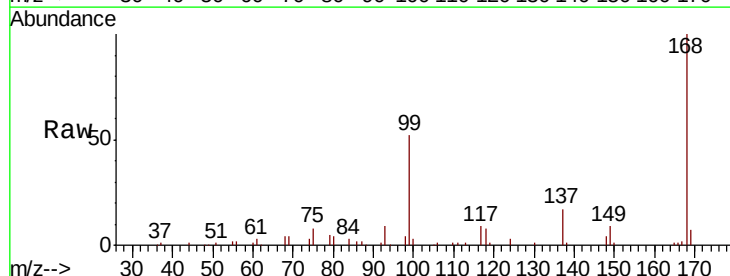
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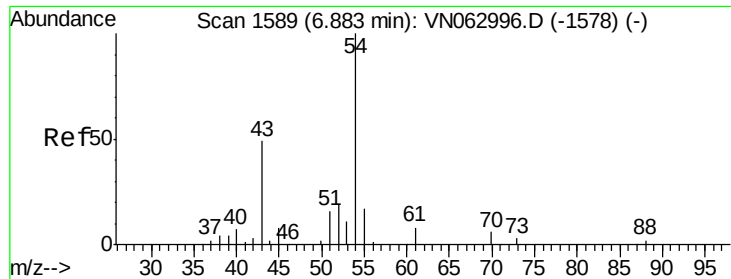
Tot Ion:113 Resp: 75002
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.7 122.5
 192 21.2 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN063083.D
 Acq: 21 Aug 2020 16:15

Tgt Ion: 75 Resp: 9609
 Ion Ratio Lower Upper
 75 100
 110 3.9 17.5 52.6#
 77 0.0 24.2 36.4#

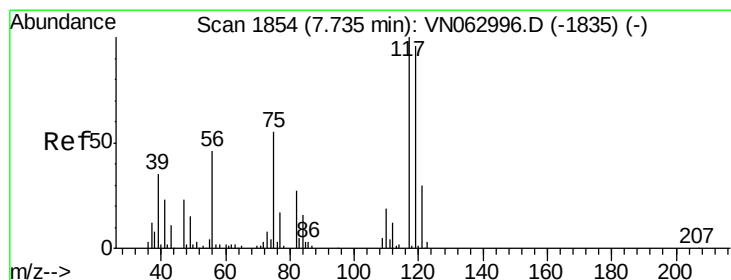
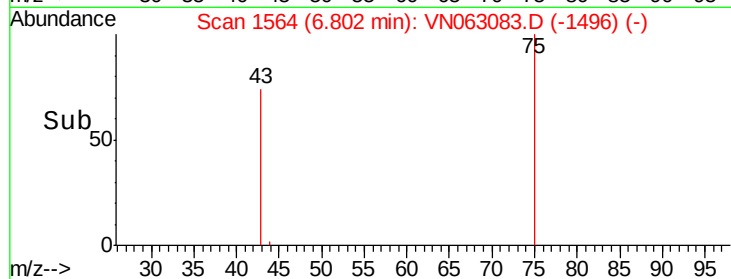
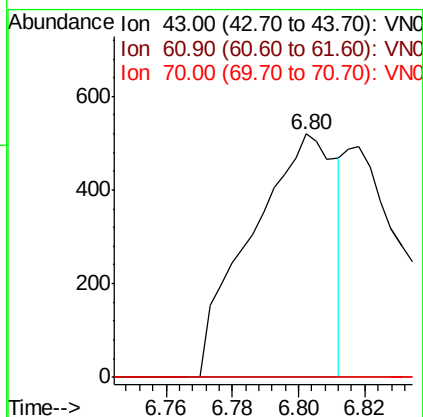
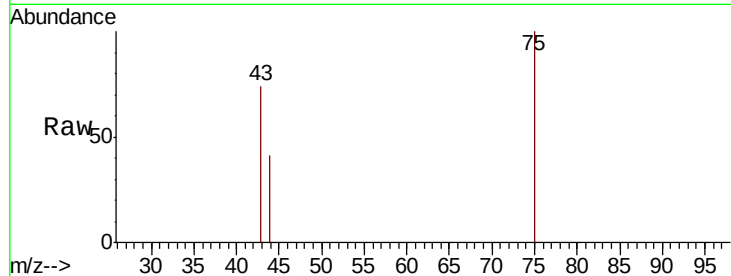




#37
Ethyl Acetate
Concen: 0.507 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.08 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

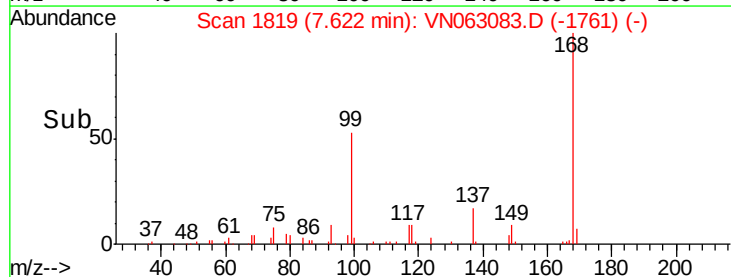
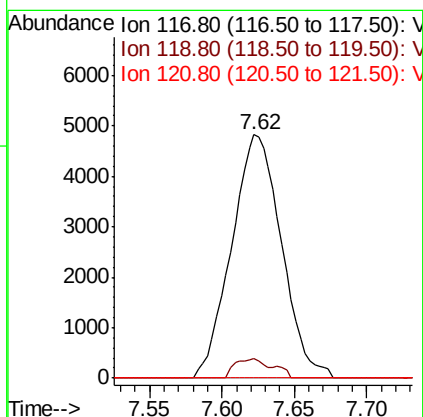
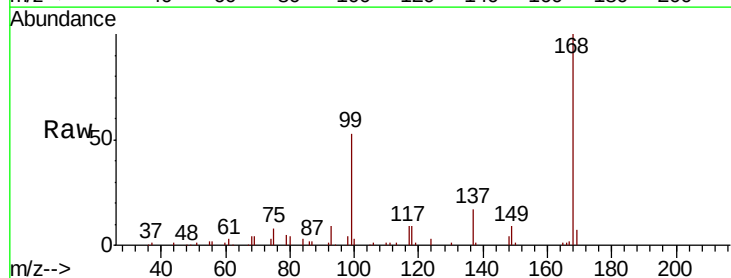
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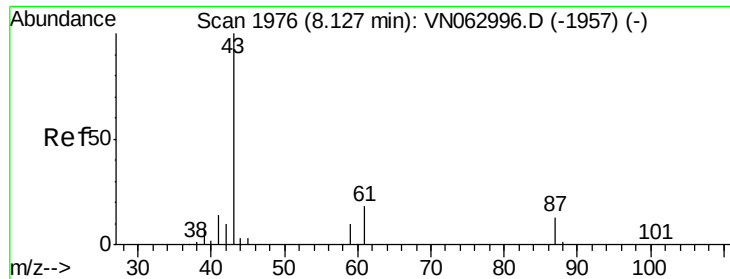
Tot Ion: 43 Resp: 922
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 5.878 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Tgt Ion: 117 Resp: 11526
Ion Ratio Lower Upper
117 100
119 7.8 76.2 114.4#
121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 10.648 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-082020

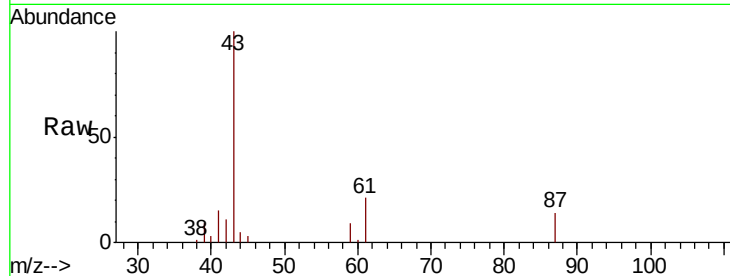
Tot Ion: 43 Resp: 32106

Ion Ratio Lower Upper

43 100

61 20.3 22.6 33.8#

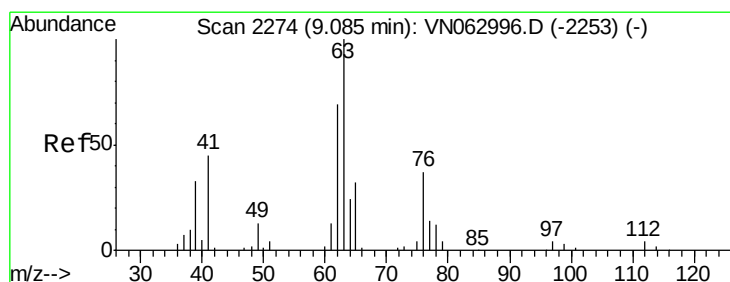
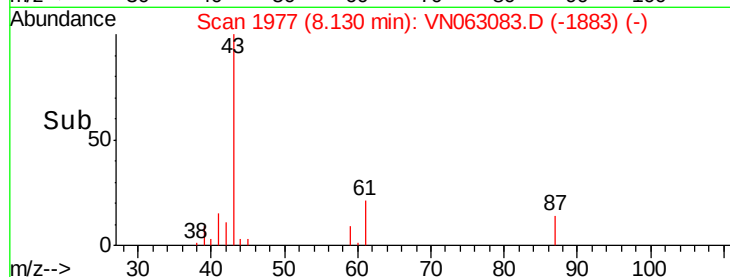
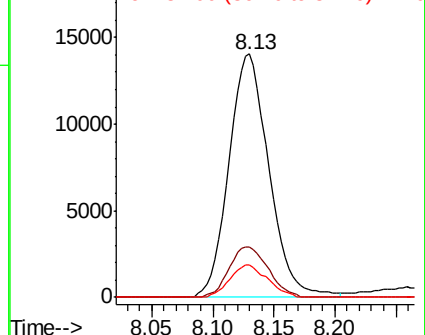
87 12.5 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.279 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN063083.D

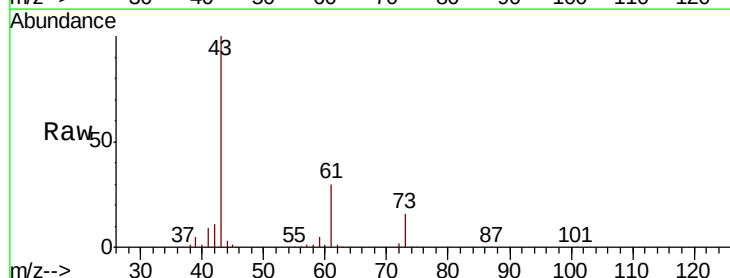
Acq: 21 Aug 2020 16:15

Tgt Ion: 63 Resp: 496

Ion Ratio Lower Upper

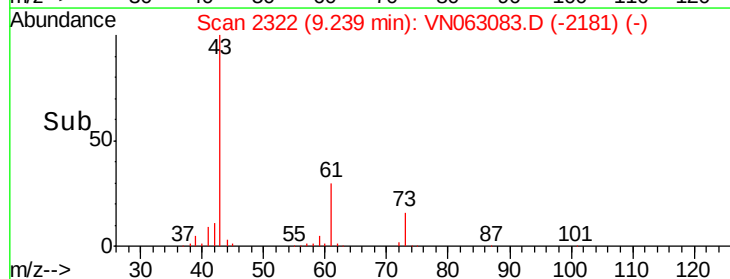
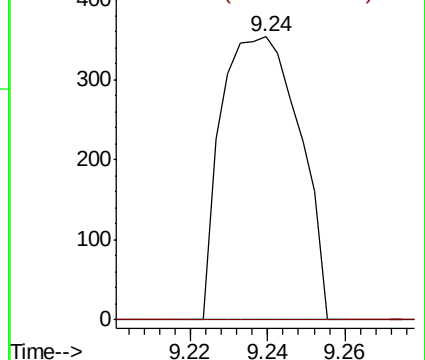
63 100

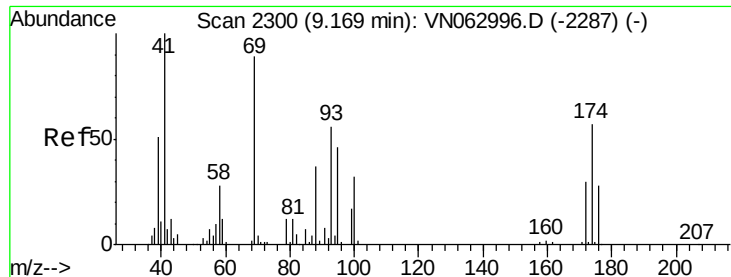
65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

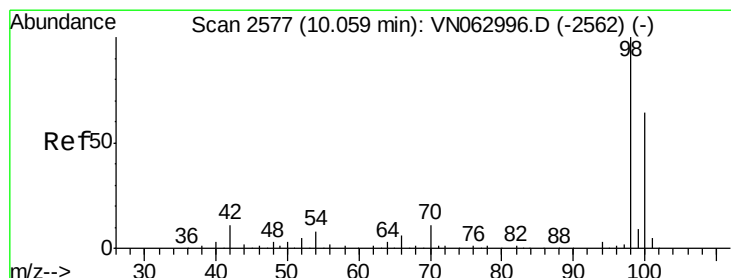
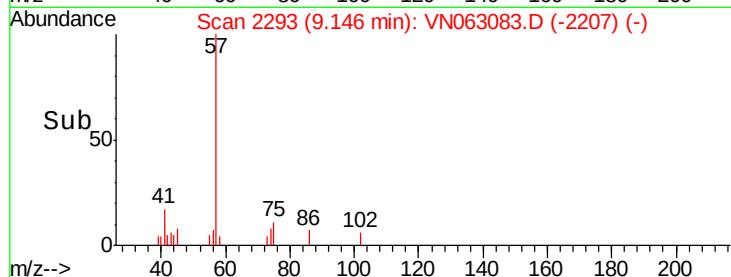
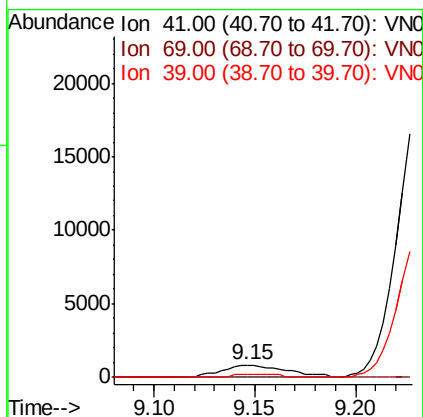
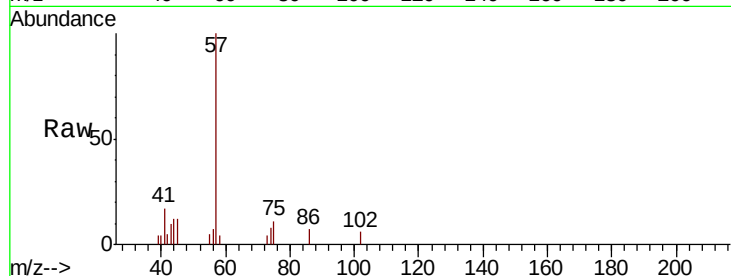




#48
Methvl methacrylate
Concen: 1.289 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

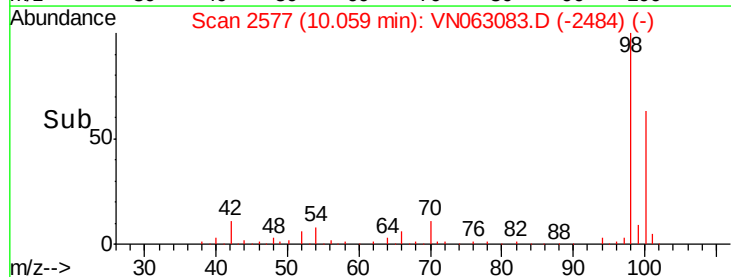
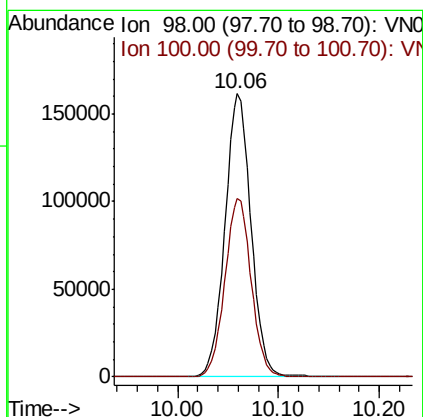
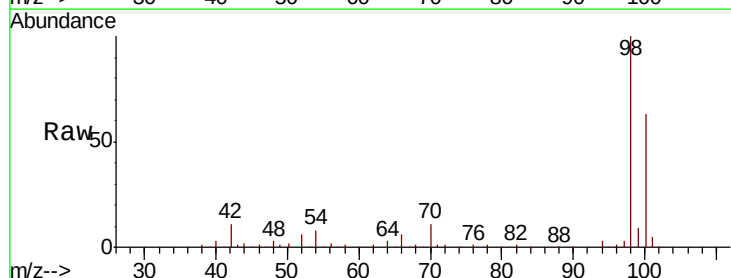
Instrument :
MSVOA_N
ClientSampleId :
OR-03-082020

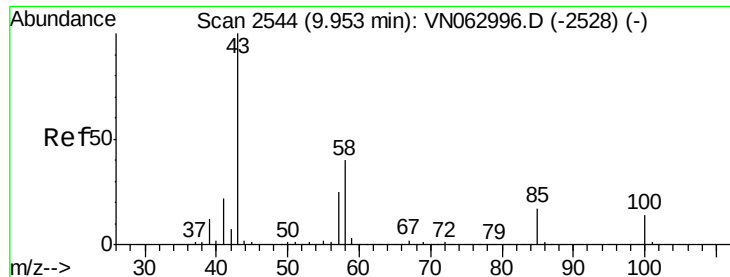
Tot Ion: 41 Resp: 1839
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 0.0 42.5 63.7#



#50
Toluene-d8
Concen: 52.807 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Tgt Ion: 98 Resp: 291302
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.950 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampled :

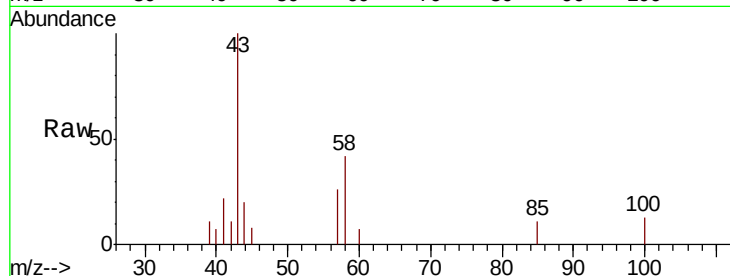
OR-03-082020

Tot Ion: 43 Resp: 3716

Ion Ratio Lower Upper

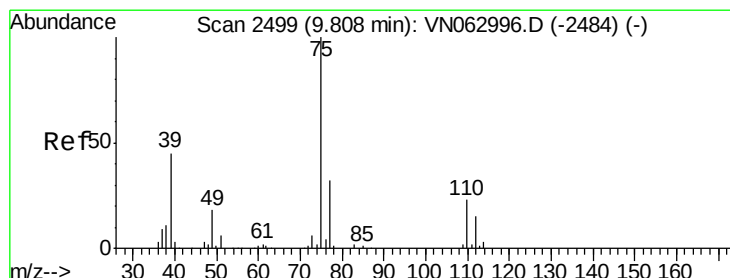
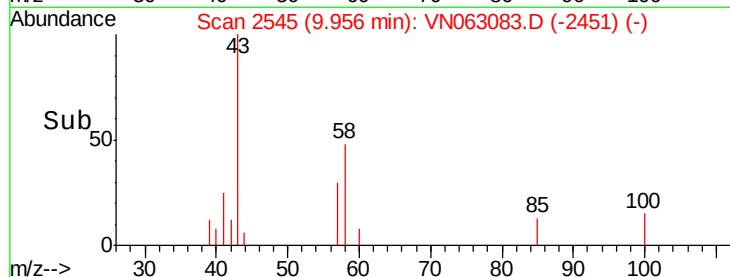
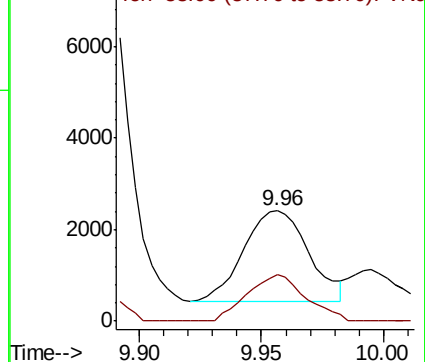
43 100

58 45.5 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.685 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

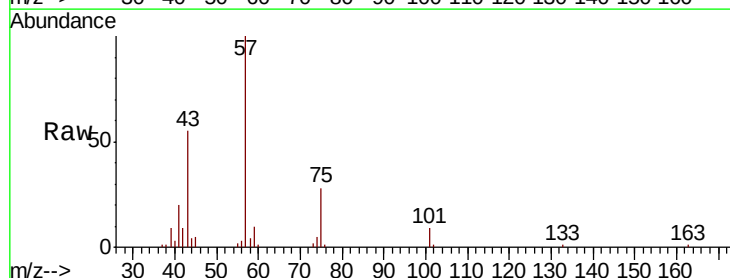
Tgt Ion: 75 Resp: 14532

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

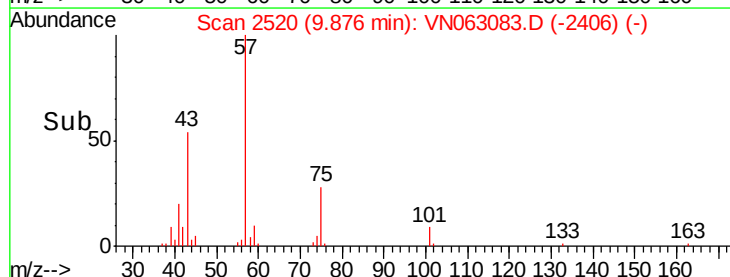
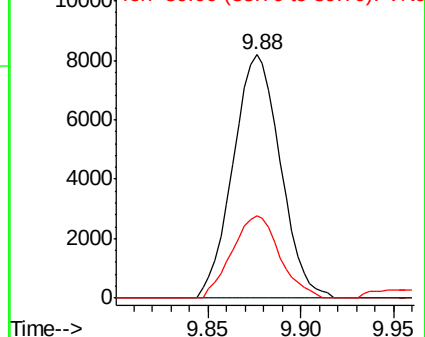
39 33.6 35.7 53.5#

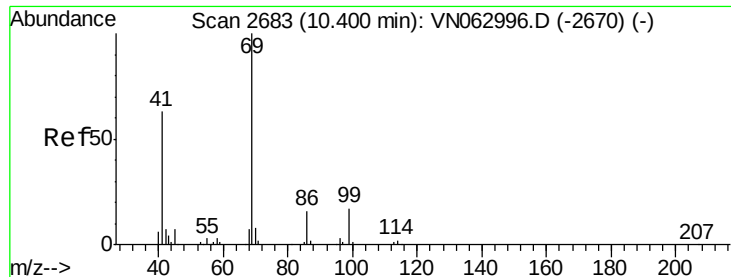


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.239 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-082020

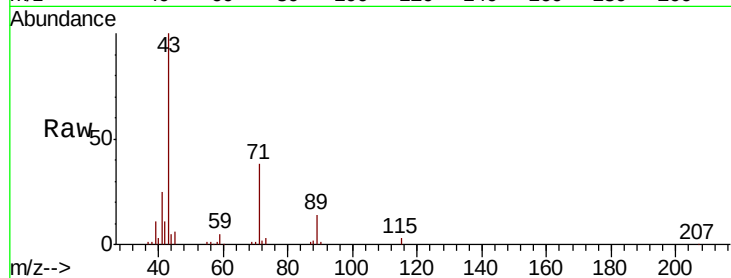
Tot Ion: 69 Resp: 1267

Ion Ratio Lower Upper

69 100

41 2410.1 50.2 75.2#

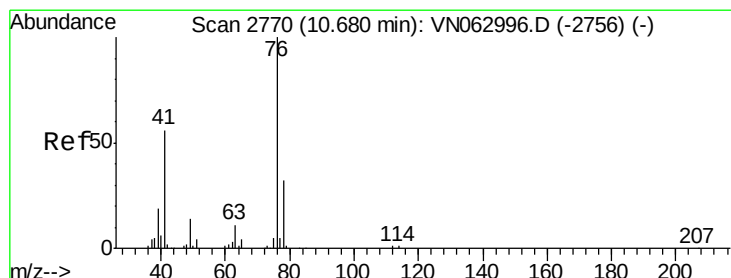
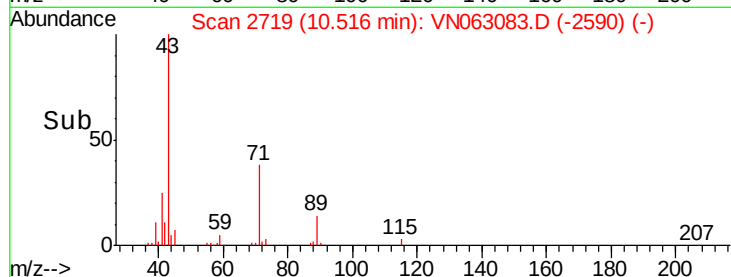
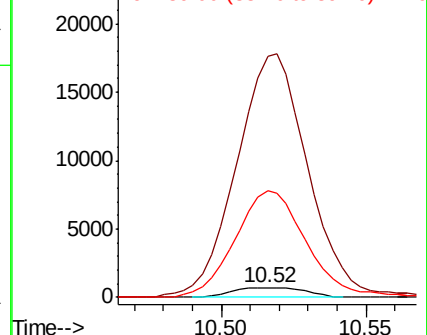
39 1052.4 24.2 36.4#



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



#57

1,3-Dichloropropane

Concen: 0.804 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN063083.D

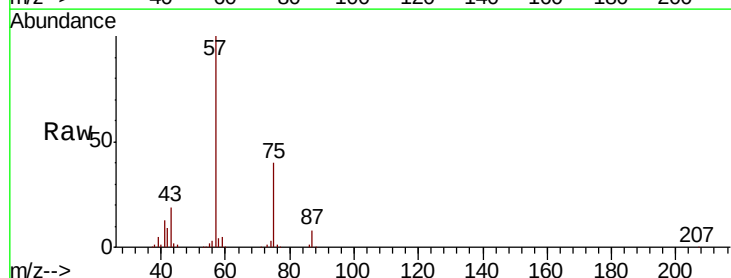
Acq: 21 Aug 2020 16:15

Tgt Ion: 76 Resp: 2121

Ion Ratio Lower Upper

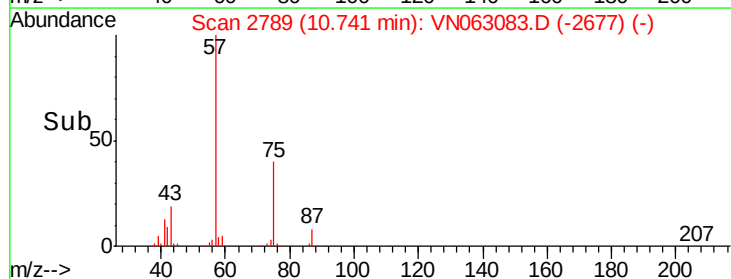
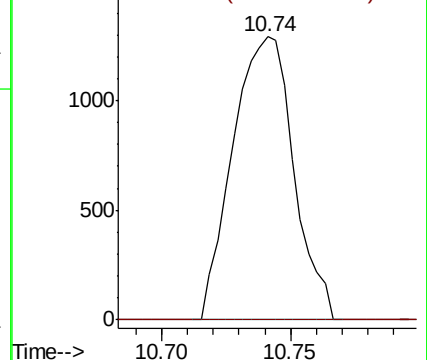
76 100

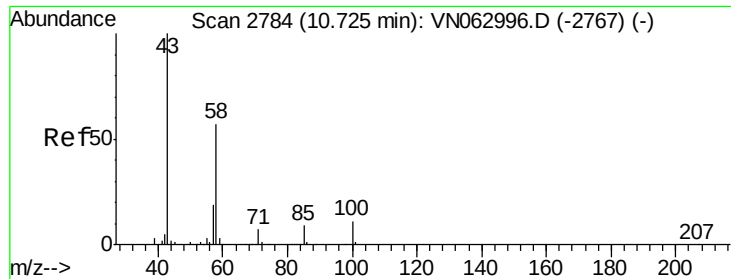
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 21.651 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

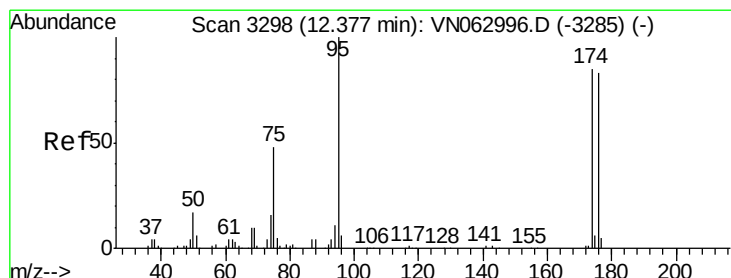
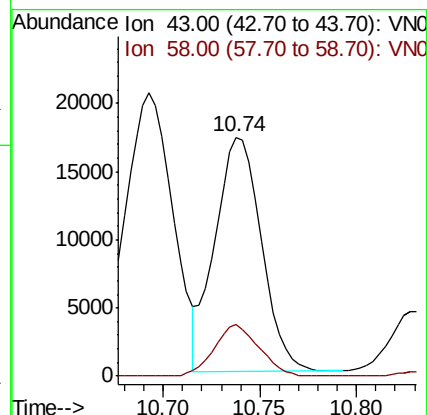
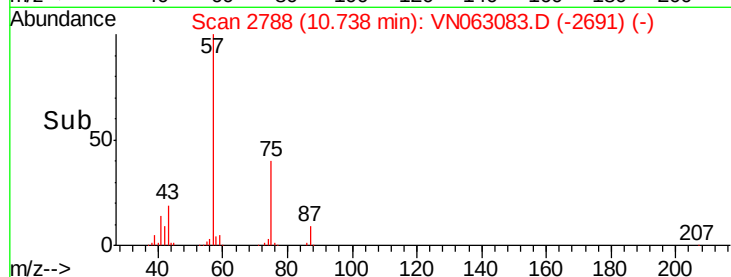
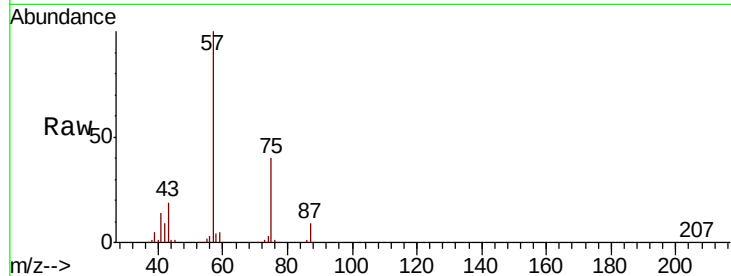
OR-03-082020

Tot Ion: 43 Resp: 28783

Ion Ratio Lower Upper

43 100

58 21.1 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: 52.804 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

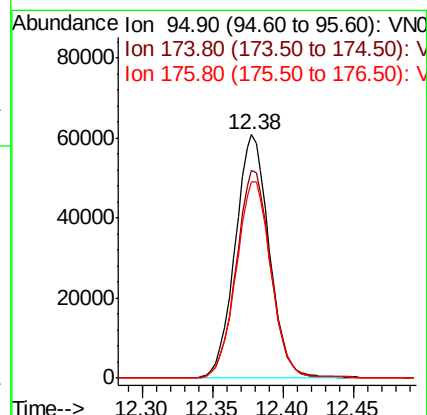
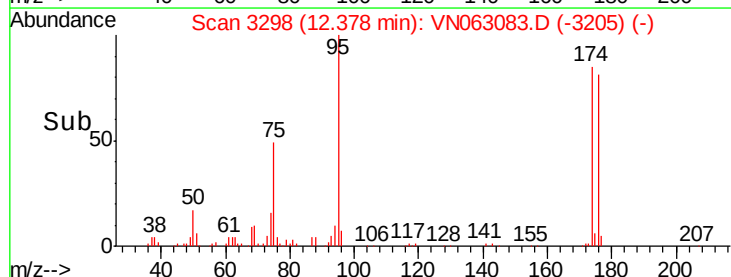
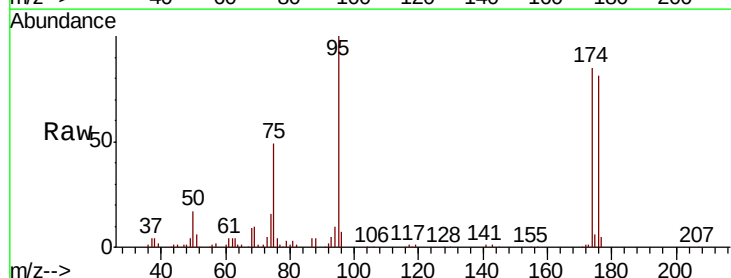
Tgt Ion: 95 Resp: 102790

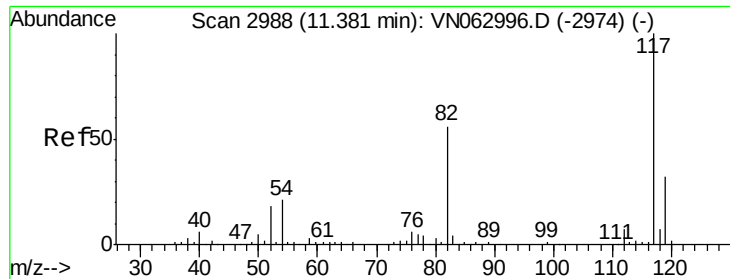
Ion Ratio Lower Upper

95 100

174 86.3 0.0 170.8

176 82.8 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-082020

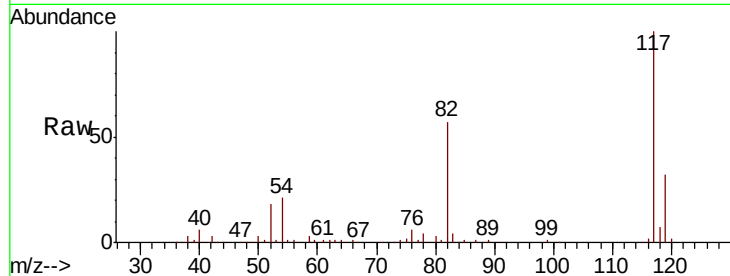
Tot Ion:117 Resp: 238691

Ion Ratio Lower Upper

117 100

82 56.7 44.5 66.7

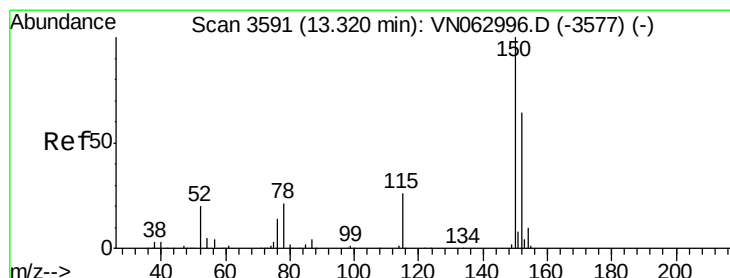
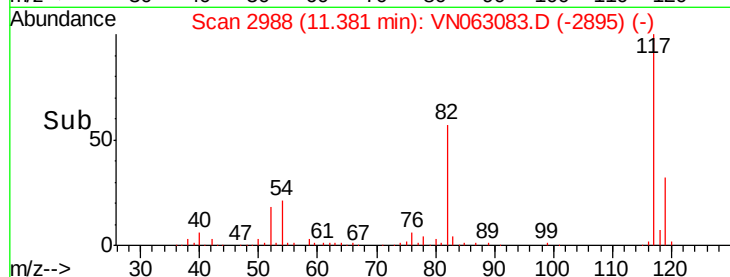
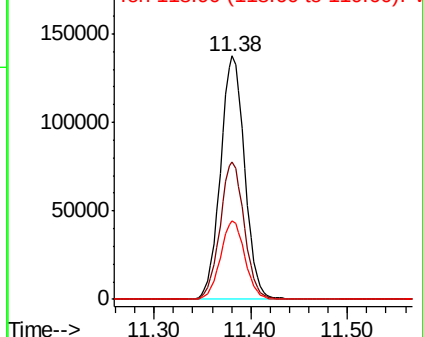
119 32.2 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): 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: VN063083.D

Acq: 21 Aug 2020 16:15

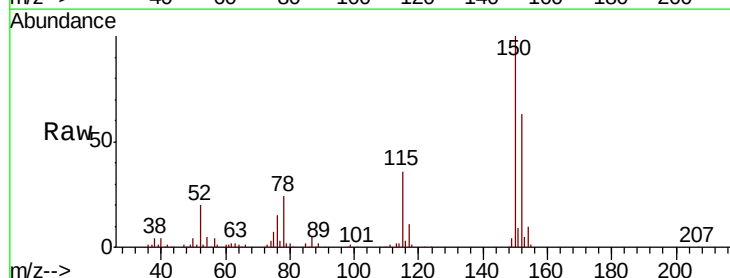
Tgt Ion:152 Resp: 94473

Ion Ratio Lower Upper

152 100

115 55.5 28.7 86.3

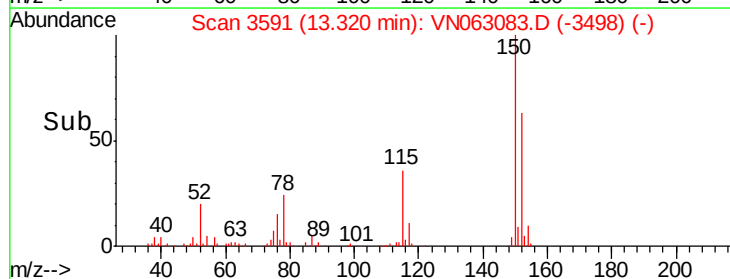
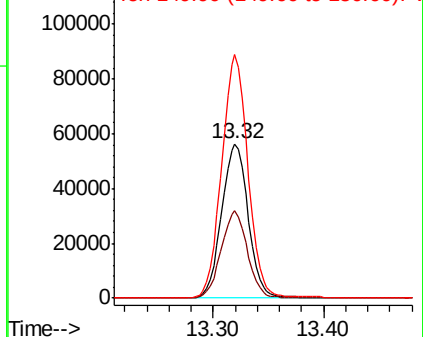
150 155.8 0.0 348.8

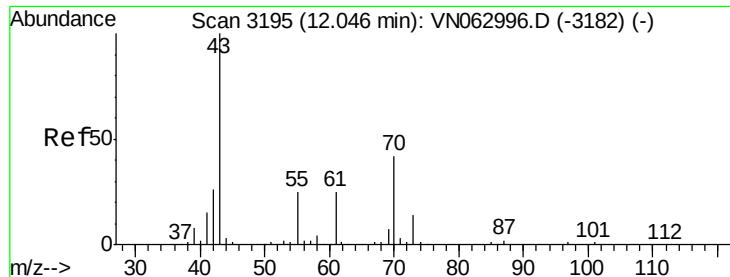


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.342 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN063083.D

Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampled :

OR-03-082020

Tot Ion: 43 Resp: 793

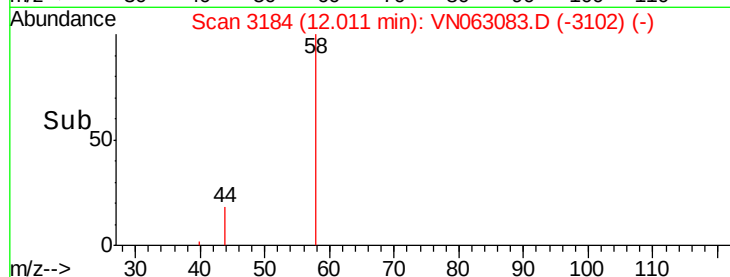
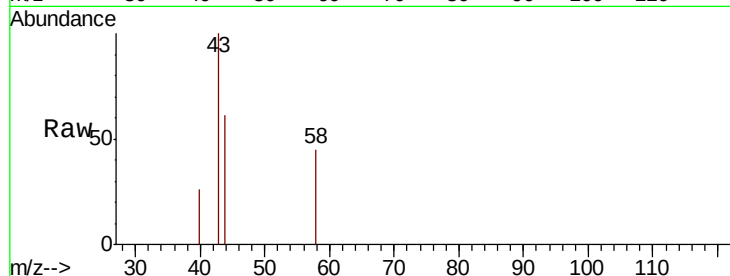
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 20.2 30.2#

61 0.0 19.9 29.9#

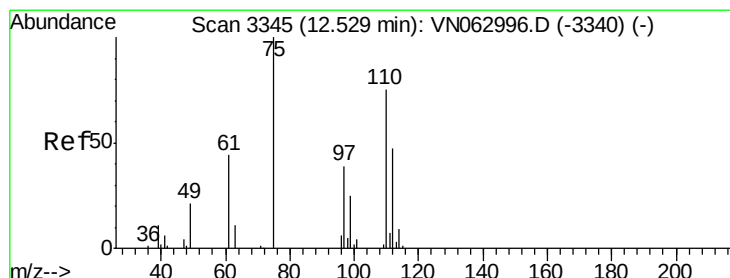
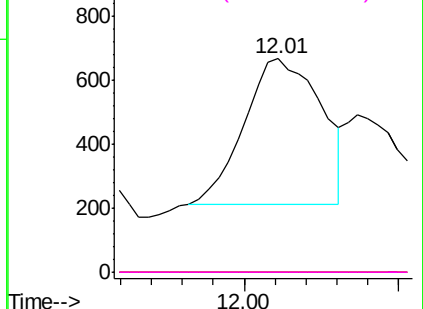


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.121 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063083.D

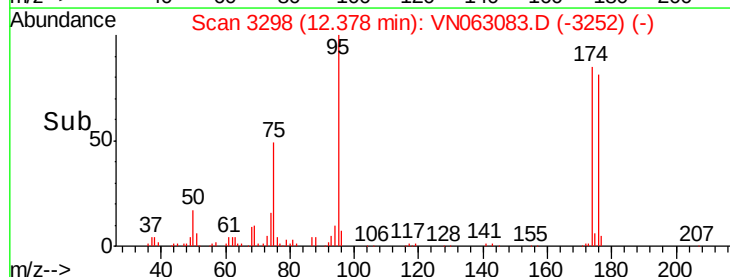
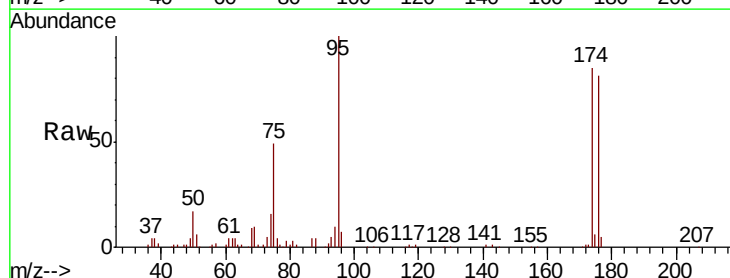
Acq: 21 Aug 2020 16:15

Tgt Ion: 75 Resp: 49804

Ion Ratio Lower Upper

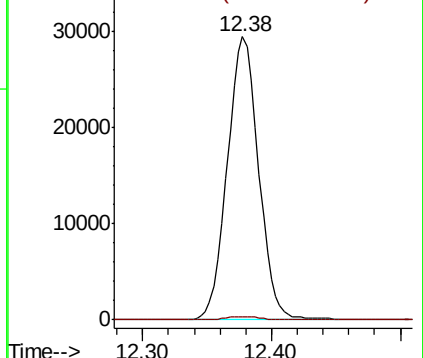
75 100

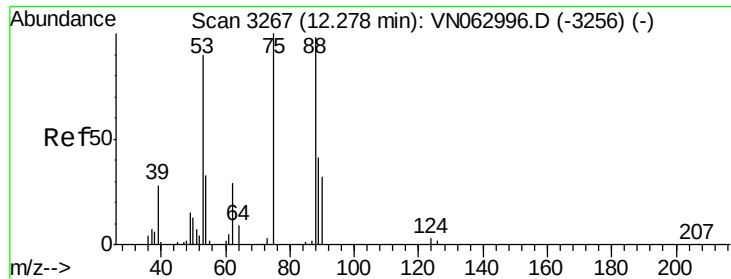
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

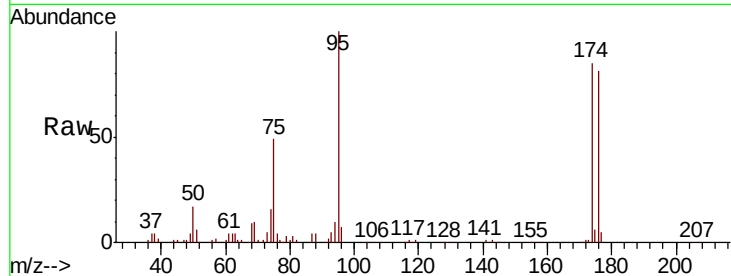




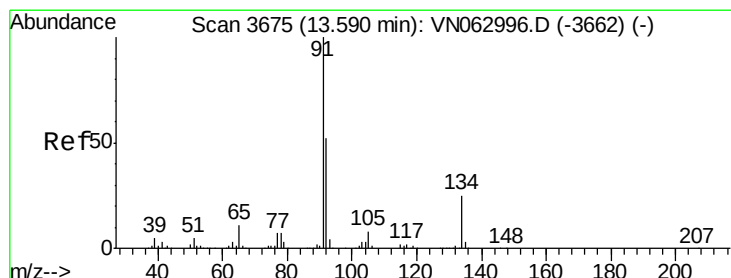
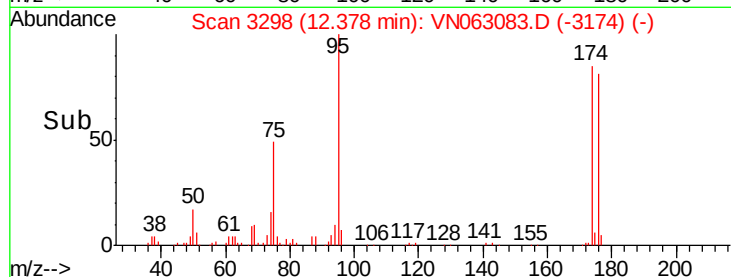
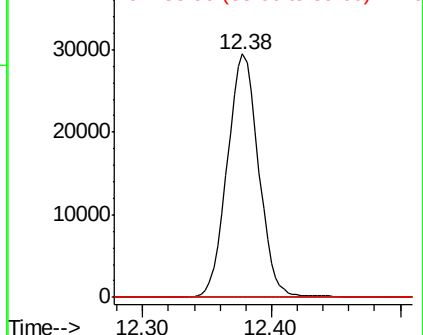
#81
trans-1,4-Dichloro-2-butene
Concen: 74.487 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Instrument :
MSVOA_N
ClientSampleId :
OR-03-082020

Tot Ion: 75 Resp: 49804
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 34.2 51.4#

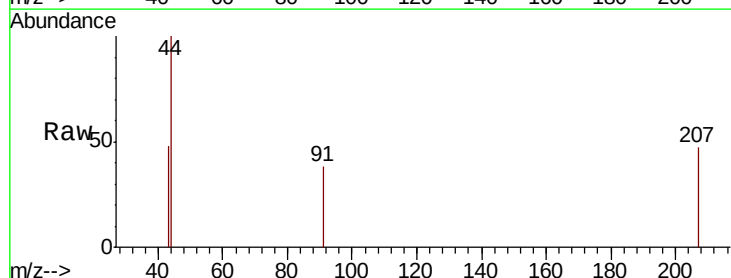


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

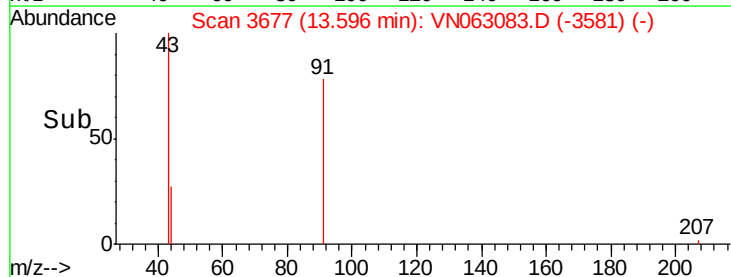
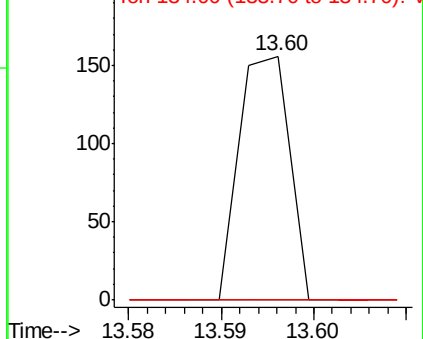


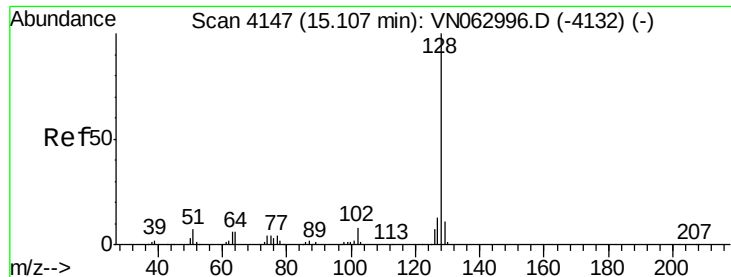
#89
n-Butylbenzene
Concen: 2.781 ug/l
RT: 13.60 min Scan# 3677
Delta R.T. 0.01 min
Lab File: VN063083.D
Acq: 21 Aug 2020 16:15

Tgt Ion: 91 Resp: 59
Ion Ratio Lower Upper
91 100
92 0.0 25.9 77.6#
134 0.0 12.4 37.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 5.723 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN063083.D

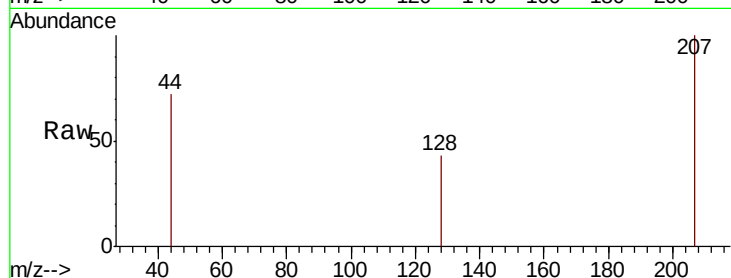
Acq: 21 Aug 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

OR-03-082020



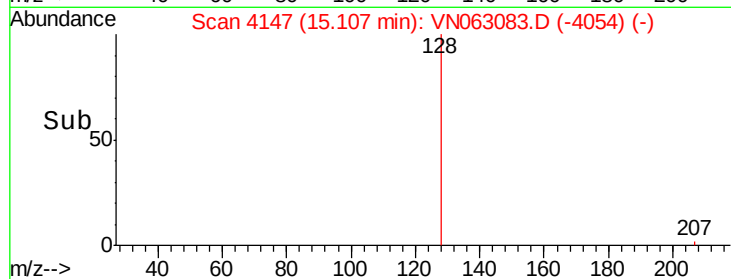
Tot Ion:128 Resp: 341

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.9 13.3#



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

