

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062688.D
 Acq On : 31 Jul 2020 16:18
 Operator : JC/MD
 Sample : PB130640ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#11

Quant Time: Aug 01 06:06:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	127868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	245058	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	241529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	86706	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	112898	56.84	ug/l	0.00
Spiked Amount			Recovery	=	113.68%	
35) Dibromofluoromethane	7.55	113	79762	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
50) Toluene-d8	10.06	98	315484	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.38	95	116084	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	

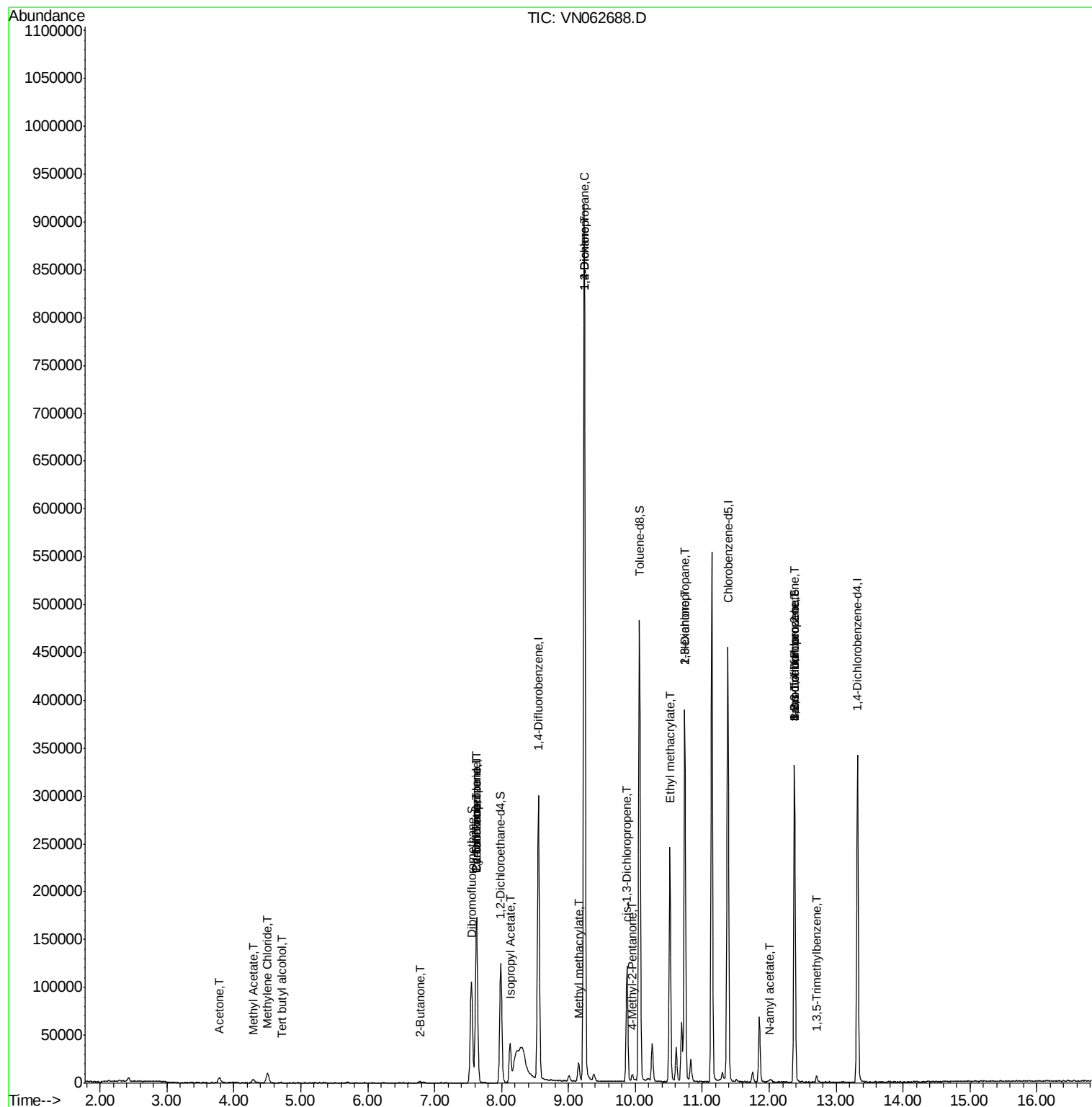
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	66	0.209	ug/l #	73
16) Acetone	3.79	43	9787	13.093	ug/l	90
18) Methyl Acetate	4.29	43	7703	4.071	ug/l #	72
20) Methylene Chloride	4.50	84	7502	4.185	ug/l	98
25) 2-Butanone	6.80	43	736	0.647	ug/l #	52
31) Cyclohexane	7.63	56	3470	1.186	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	11555	4.424	ug/l #	51
38) Carbon Tetrachloride	7.63	117	14339	5.711	ug/l #	17
43) Isopropyl Acetate	8.13	43	50306	11.083	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	787	0.354	ug/l #	44
48) Methyl methacrylate	9.15	41	2933	1.359	ug/l #	15
49) 1,4-Dioxane	9.23	88	29	0.875	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	4343	1.599	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	20661	6.221	ug/l #	67
56) Ethyl methacrylate	10.51	69	1291	2.158	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3985	1.221	ug/l #	42
59) 2-Hexanone	10.74	43	57778	30.142	ug/l #	54
71) Bromoform	12.37	173	423	0.296	ug/l #	1
74) N-amyl acetate	12.00	43	2290	0.748	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	63119	28.600	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3934	0.692	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	63119	79.615	ug/l #	12

(#) = 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: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

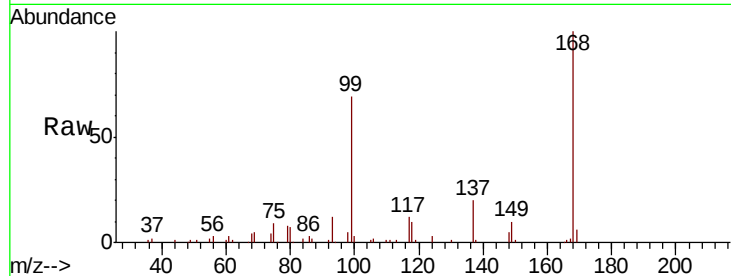
PB130640ZHE#11

Tot Ion:168 Resp: 127868

Ion Ratio Lower Upper

168 100

99 68.7 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

60000

50000

40000

30000

20000

10000

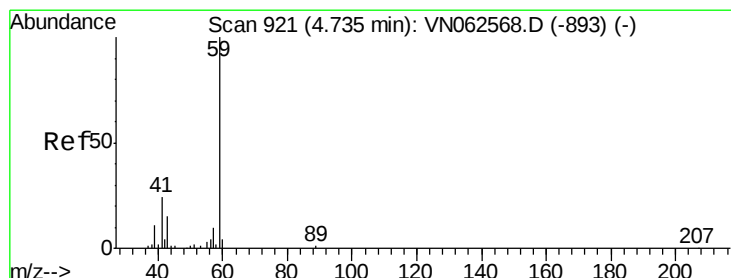
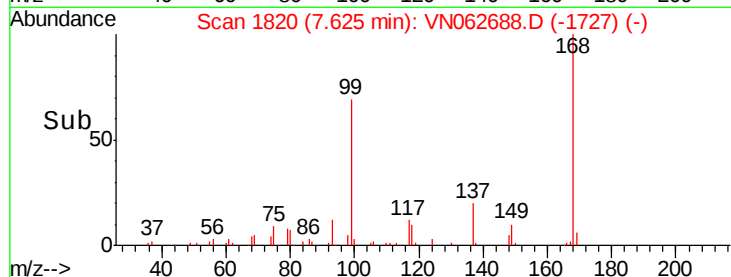
0

7.50

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.209 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.02 min

Lab File: VN062688.D

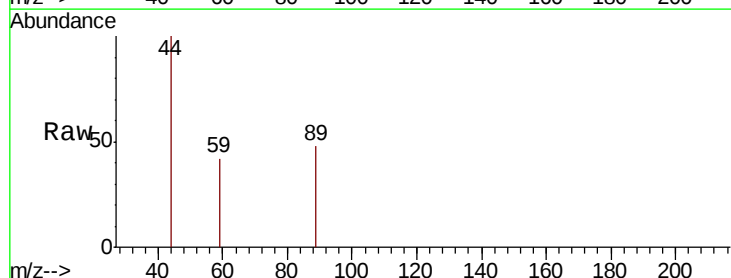
Acq: 31 Jul 2020 16:18

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

200

150

100

50

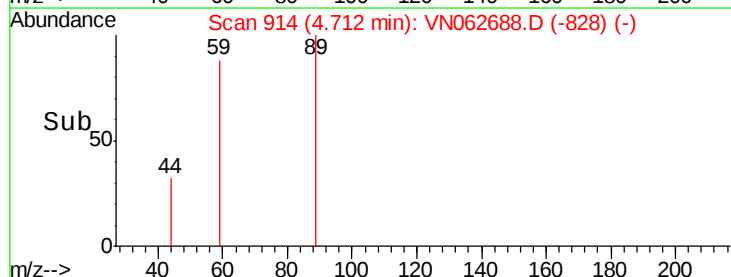
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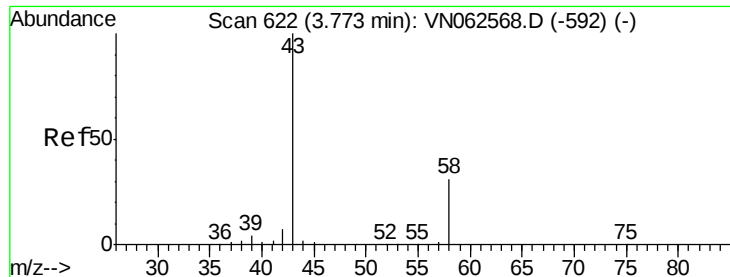
4.70

4.71

4.72

Time-->





#16

Acetone

Concen: 13.093 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.02 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

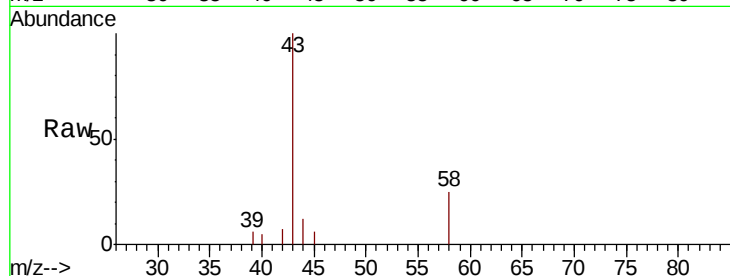
PB130640ZHE#11

Tot Ion: 43 Resp: 9787

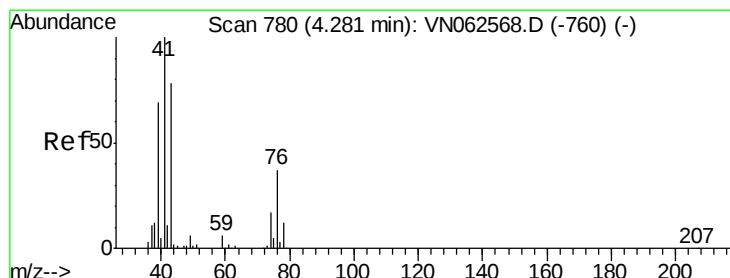
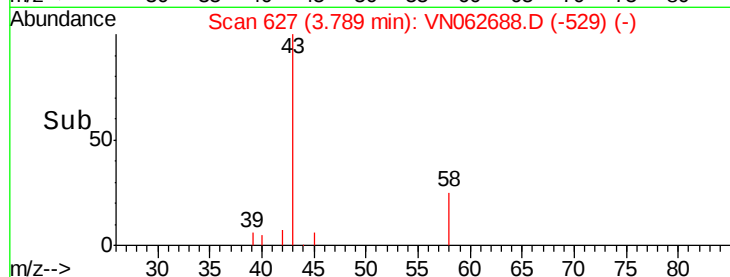
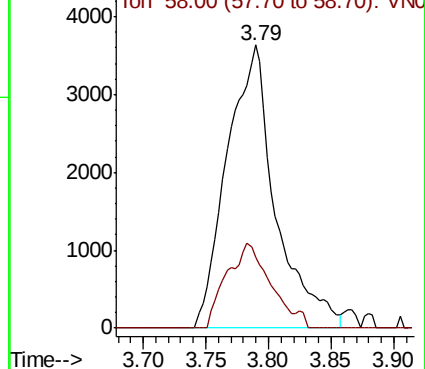
Ion Ratio Lower Upper

43 100

58 25.2 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062688.D (-529) (-)



#18

Methyl Acetate

Concen: 4.071 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062688.D

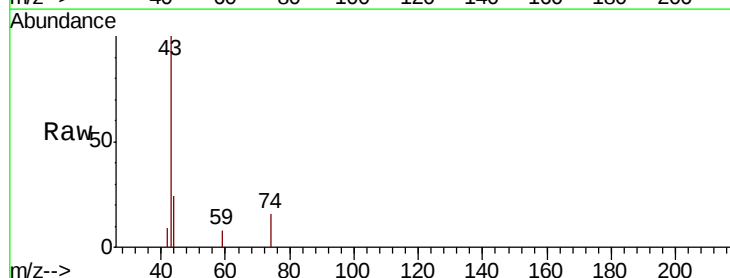
Acq: 31 Jul 2020 16:18

Tgt Ion: 43 Resp: 7703

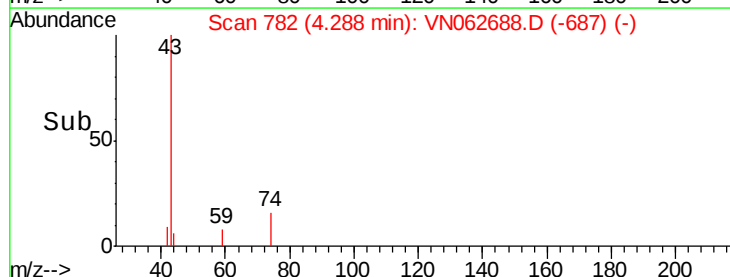
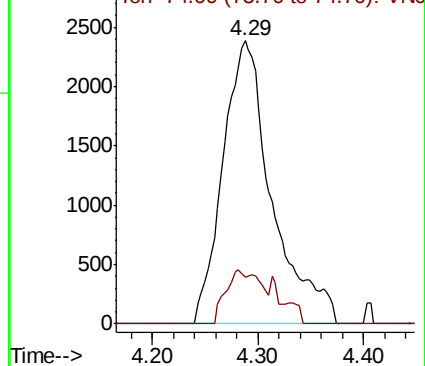
Ion Ratio Lower Upper

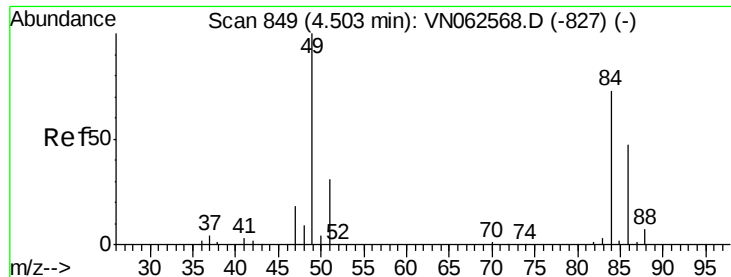
43 100

74 7.5 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062688.D (-687) (-)

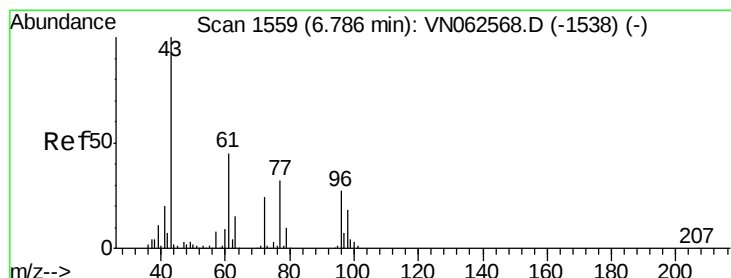
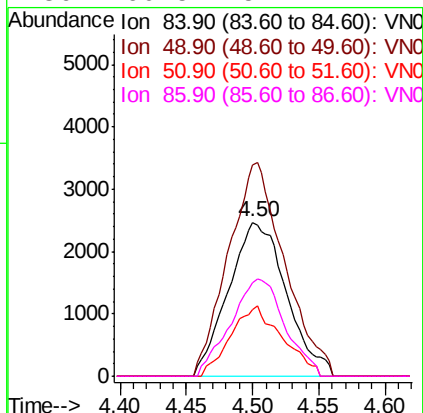
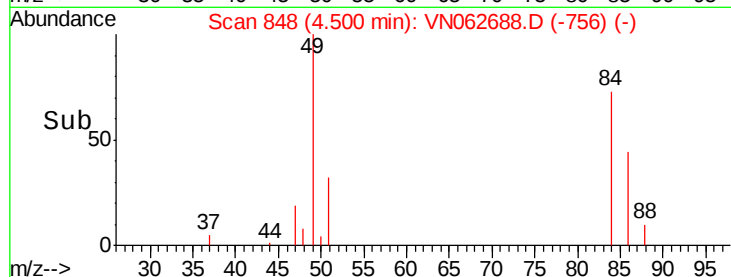
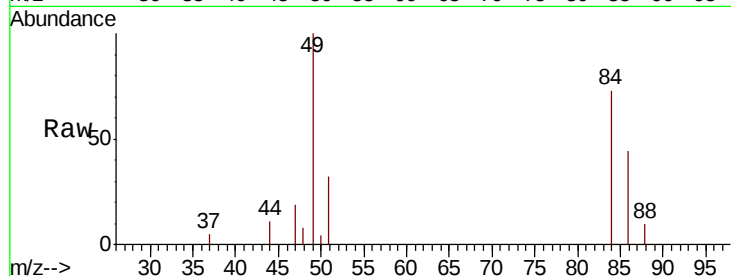




#20
Methvlene Chloride
Concen: 4.185 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

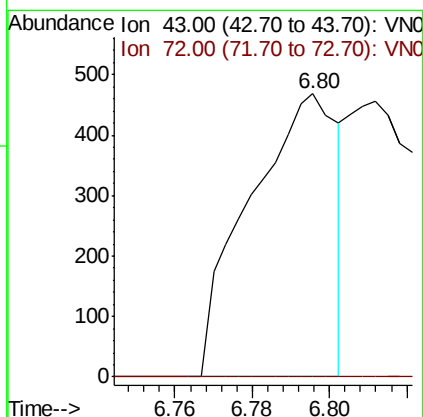
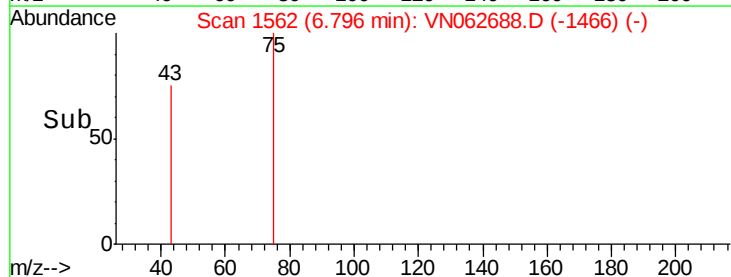
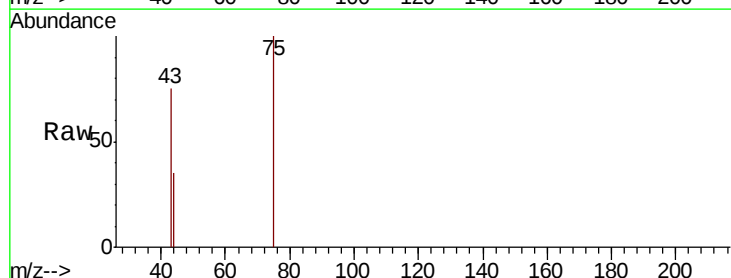
Instrument :
MSVOA_N
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PB130640ZHE#11

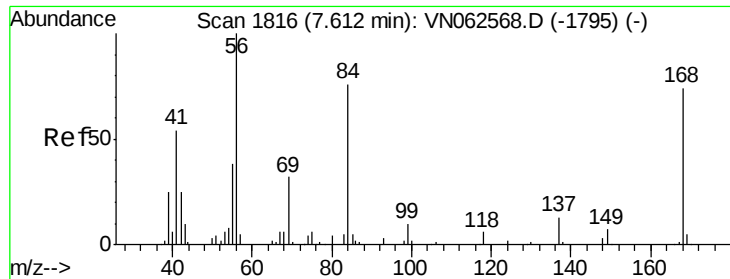
Tot Ion: 84 Resp: 7502
Ion Ratio Lower Upper
84 100
49 137.3 109.4 164.0
51 43.7 33.6 50.4
86 60.5 51.4 77.2



#25
2-Butanone
Concen: 0.647 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Tgt Ion: 43 Resp: 736
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#

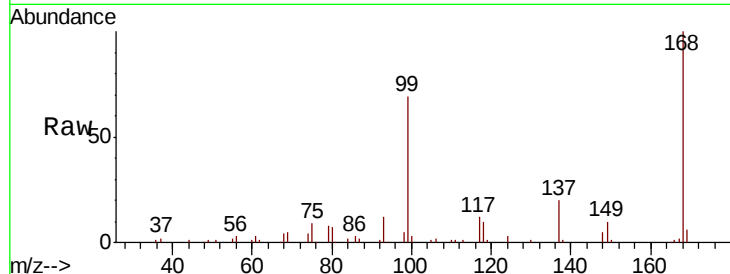




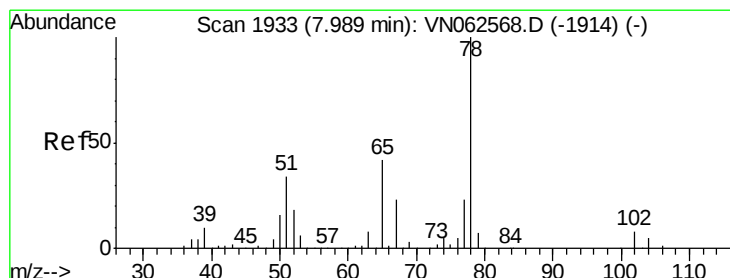
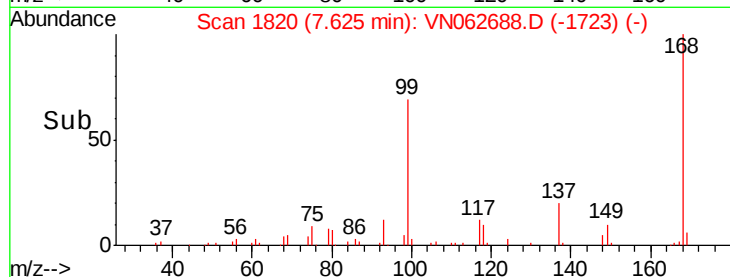
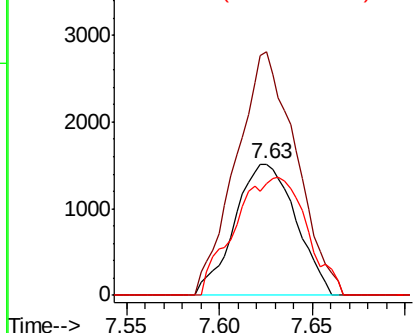
#31
Cyclohexane
Concen: 1.186 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#11

Tot Ion: 56 Resp: 3470
Ion Ratio Lower Upper
56 100
69 185.0 25.3 37.9#
84 84.8 61.0 91.4

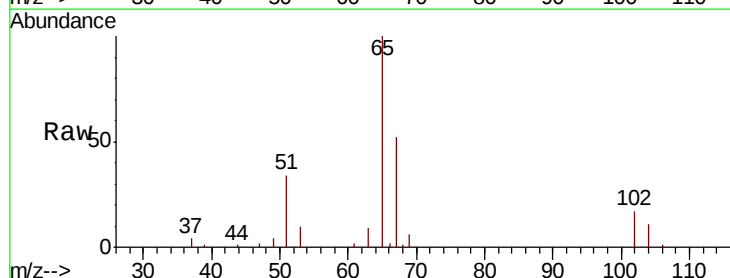


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

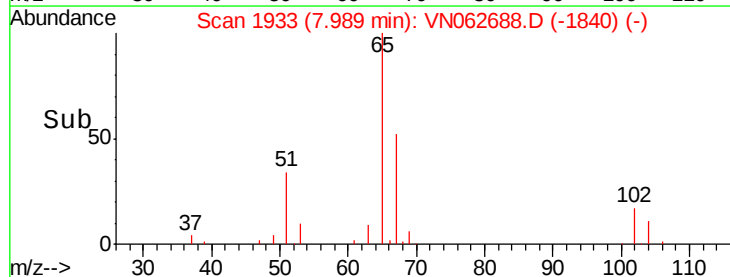
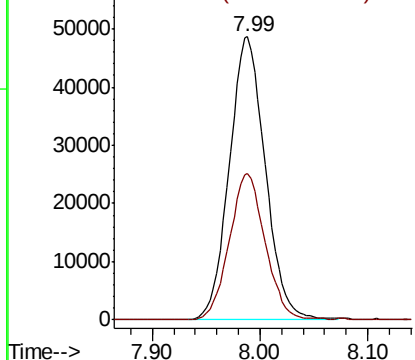


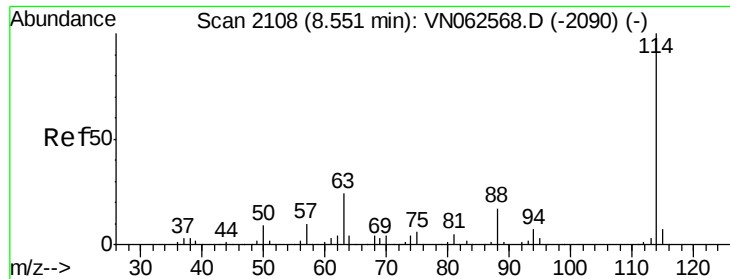
#33
1,2-Dichloroethane-d4
Concen: 56.836 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Tgt Ion: 65 Resp: 112898
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.0



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

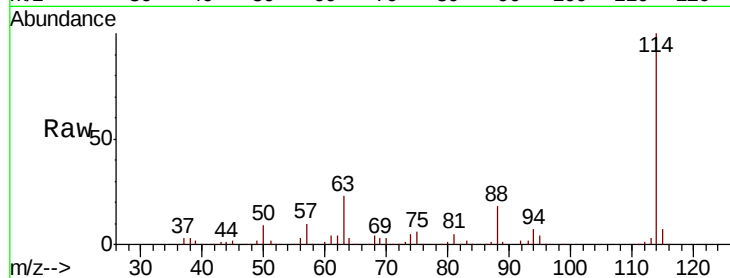




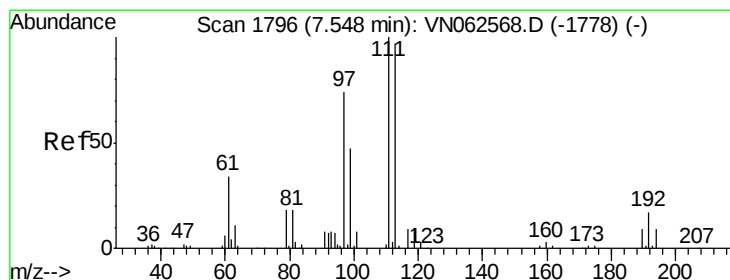
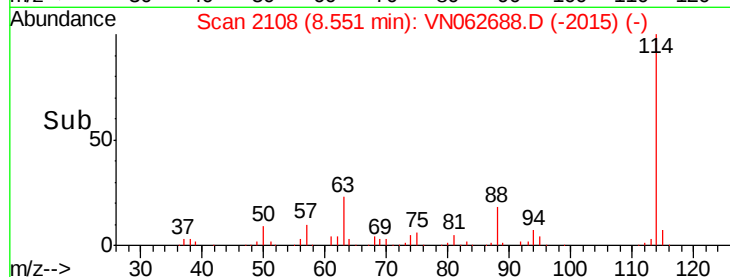
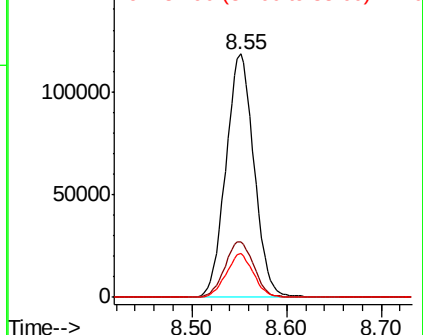
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Instrument :
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 ClientSampleId :
 PB130640ZHE#11

Tot Ion:114 Resp: 245058
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 48.4
 88 17.9 0.0 33.8

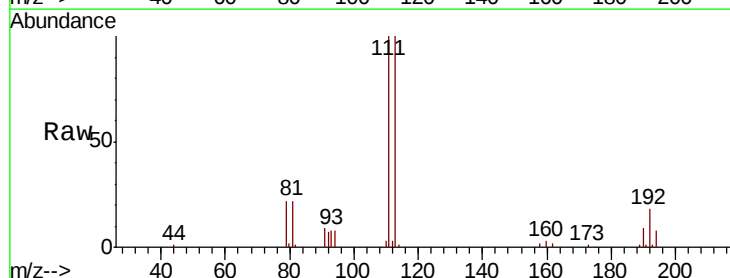


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

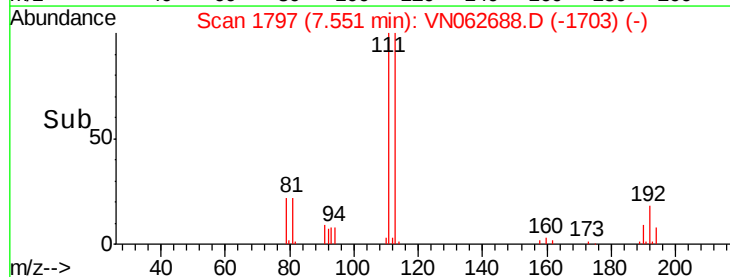
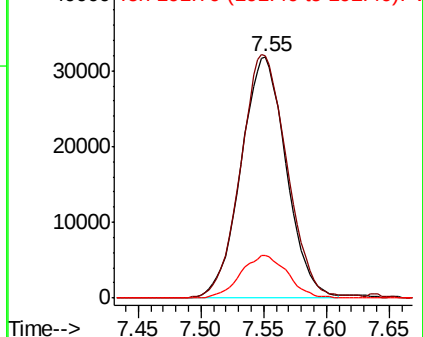


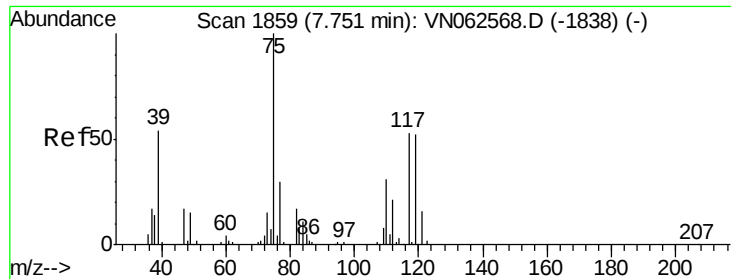
#35
 Dibromofluoromethane
 Concen: 49.551 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Tgt Ion:113 Resp: 79762
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.7 124.1
 192 18.3 14.8 22.2



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

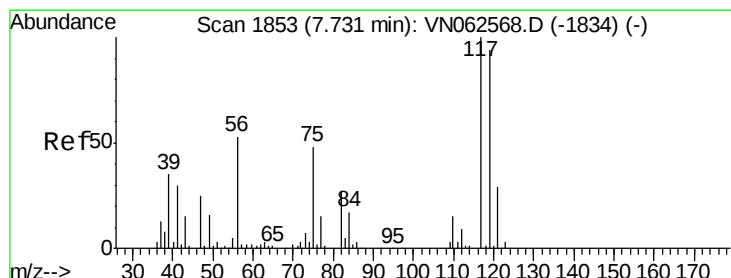
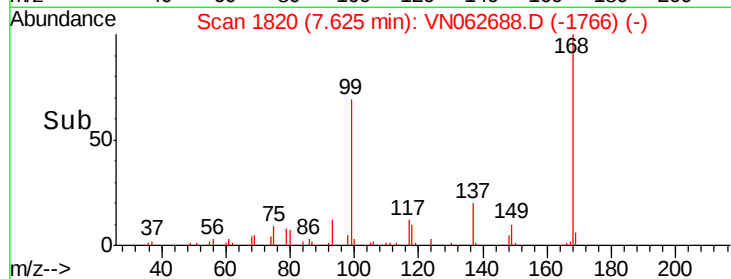
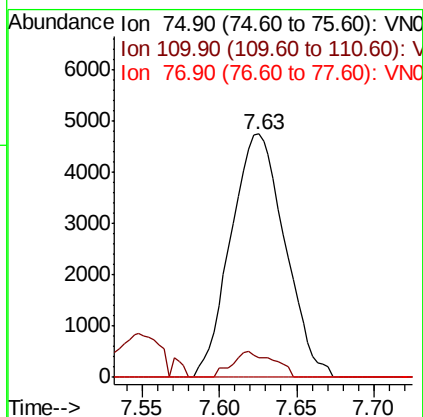
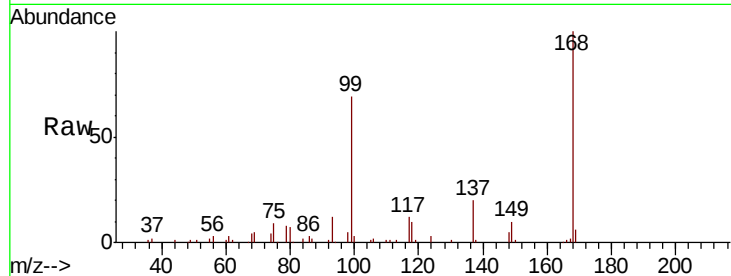




#36
 1,1-Dichloropropene
 Concen: 4.424 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

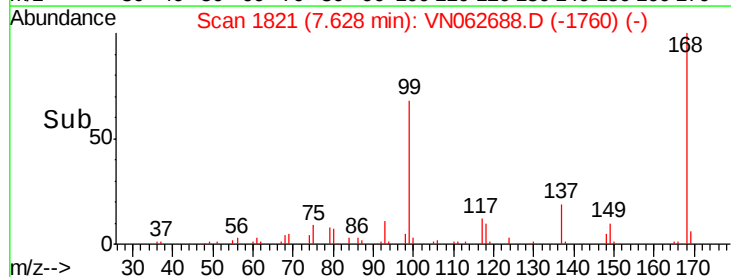
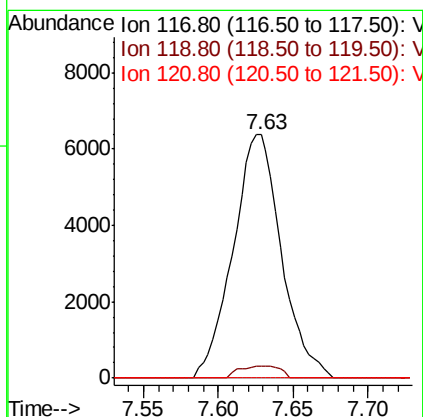
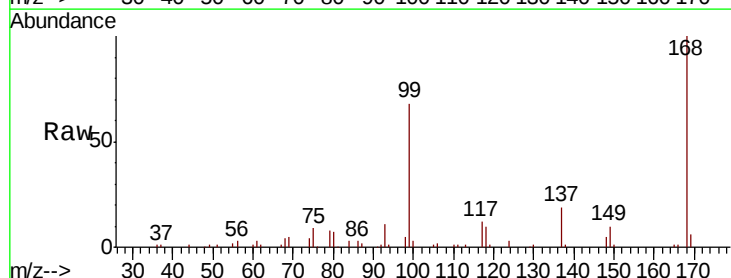
Instrument :
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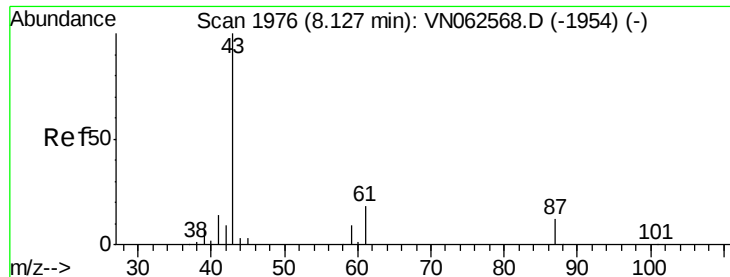
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.711 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 11.083 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#11

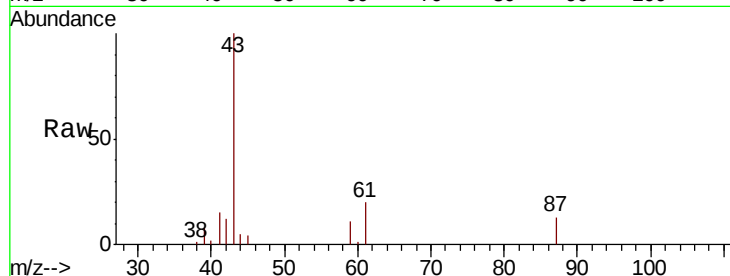
Tot Ion: 43 Resp: 50306

Ion Ratio Lower Upper

43 100

61 19.1 20.8 31.2#

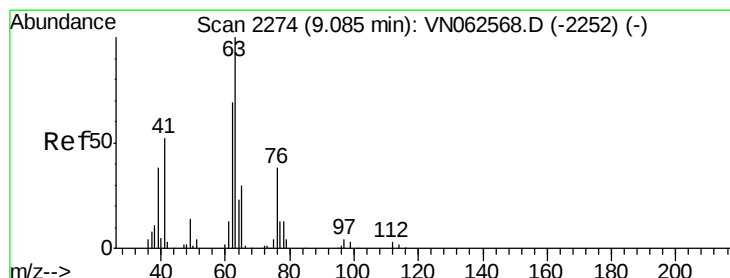
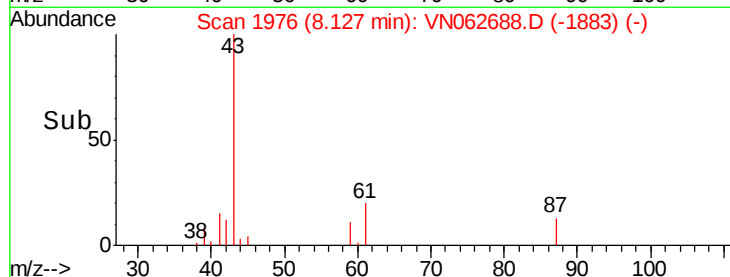
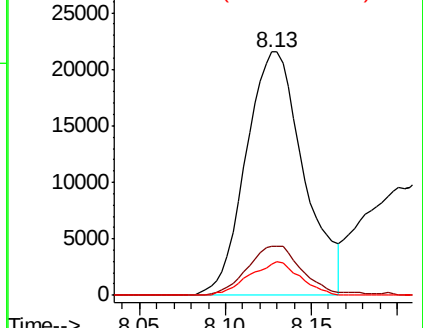
87 12.0 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062688.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062688.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062688.D (-1954) (-)



#45

1,2-Dichloropropane

Concen: 0.354 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062688.D

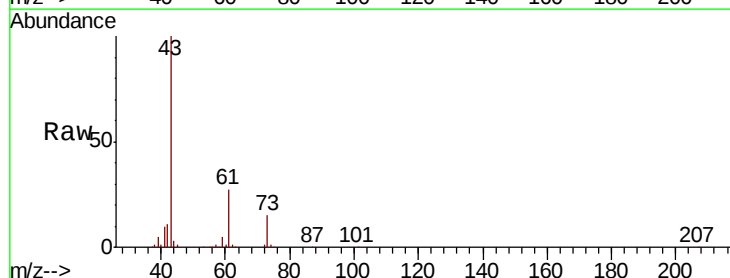
Acq: 31 Jul 2020 16:18

Tgt Ion: 63 Resp: 787

Ion Ratio Lower Upper

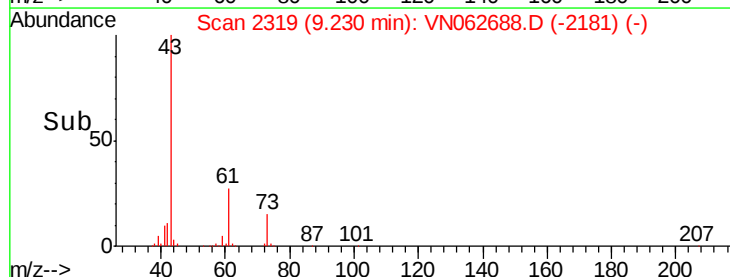
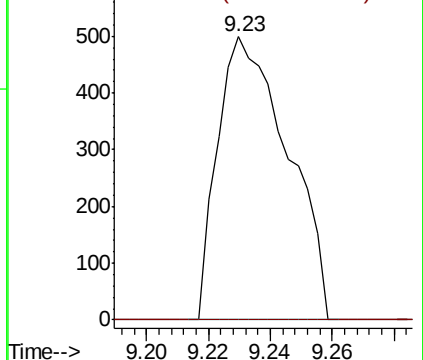
63 100

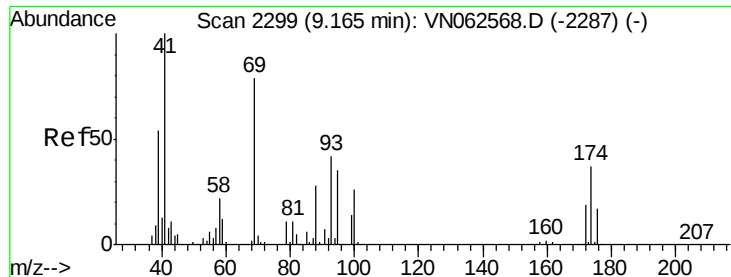
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062688.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062688.D (-2181) (-)

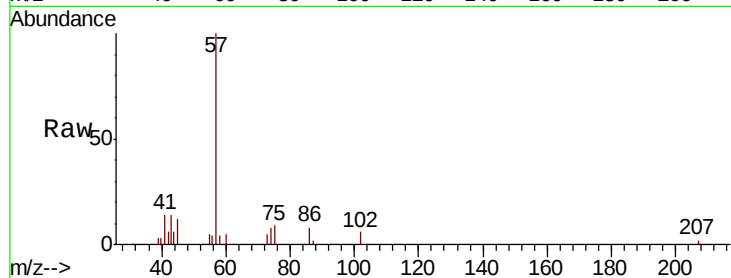




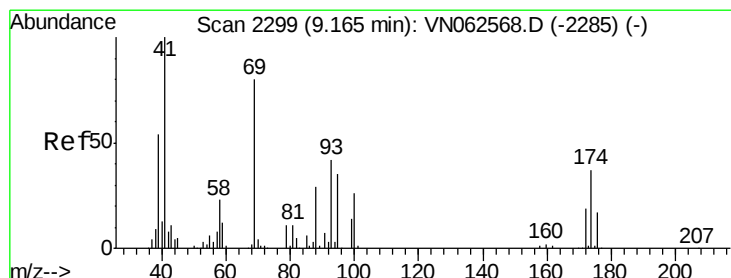
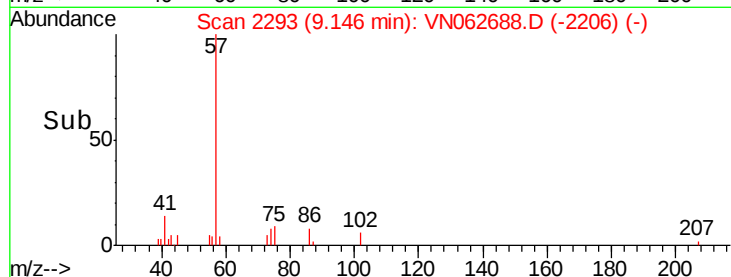
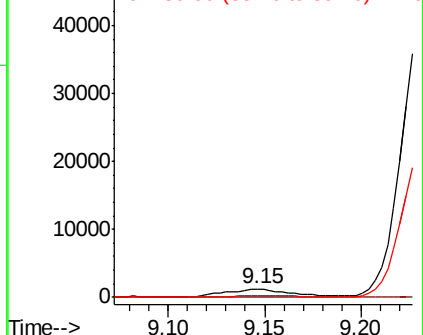
#48
Methyl methacrylate
Concen: 1.359 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#11

Tot Ion: 41 Resp: 2933
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#

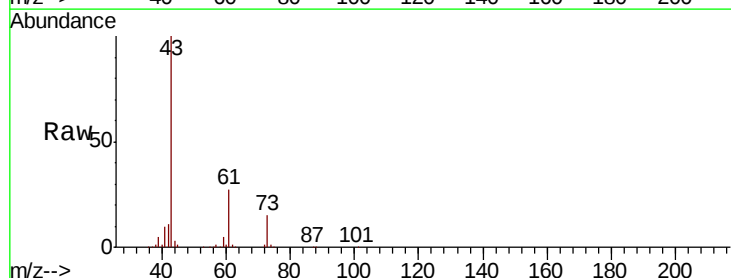


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

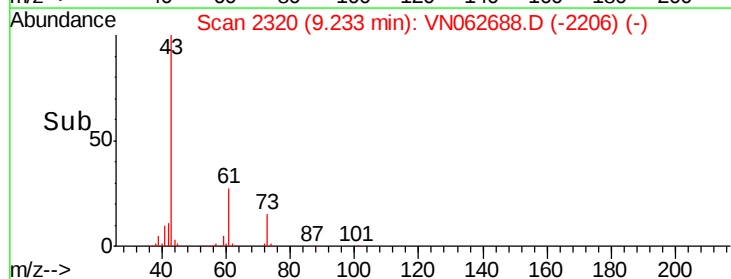
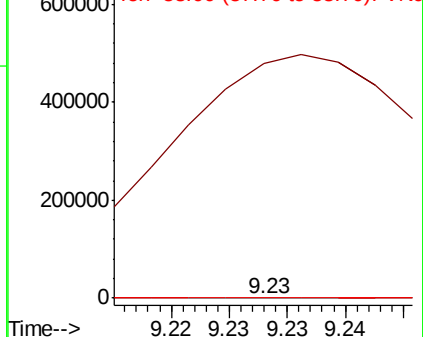


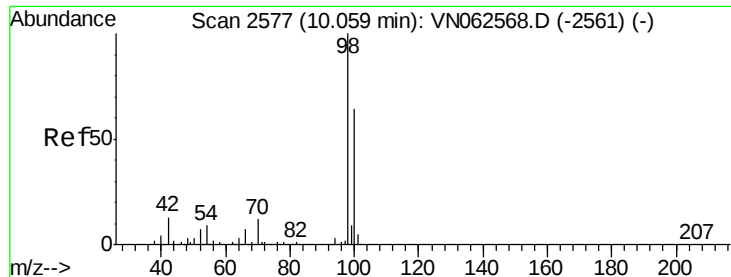
#49
1,4-Dioxane
Concen: 0.875 ug/l
RT: 9.23 min Scan# 2320
Delta R.T. 0.07 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 3123710.3 32.0 48.0#
58 13406.9 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC

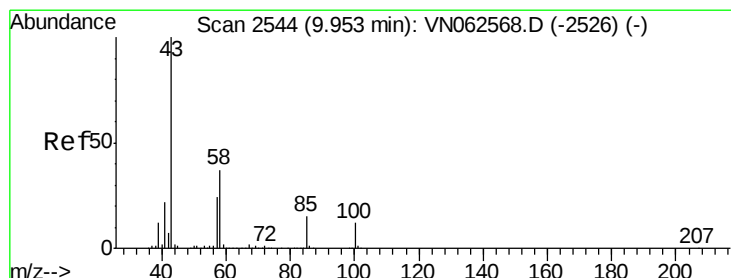
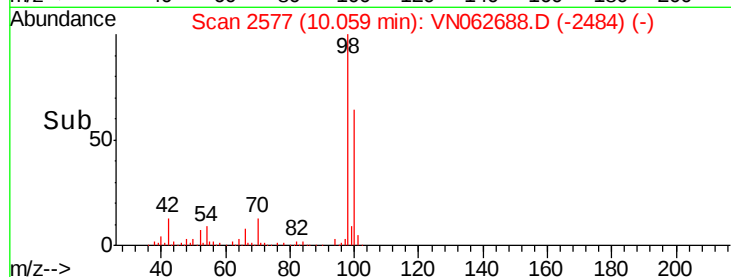
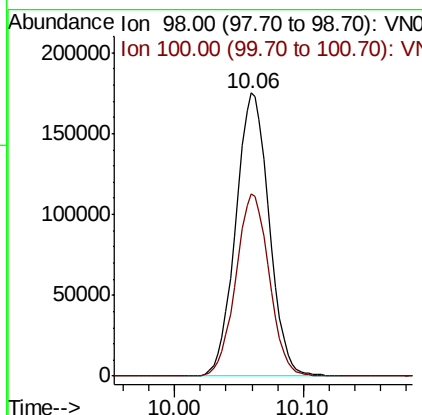
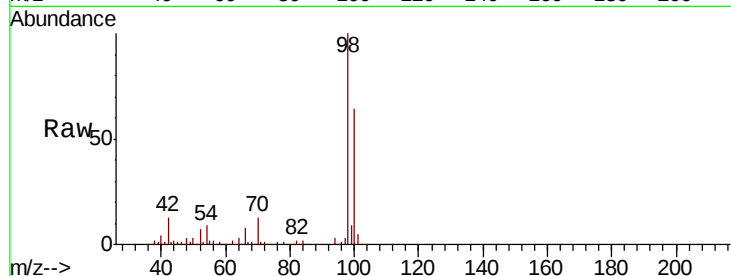




#50
Toluene-d8
Concen: 49.122 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

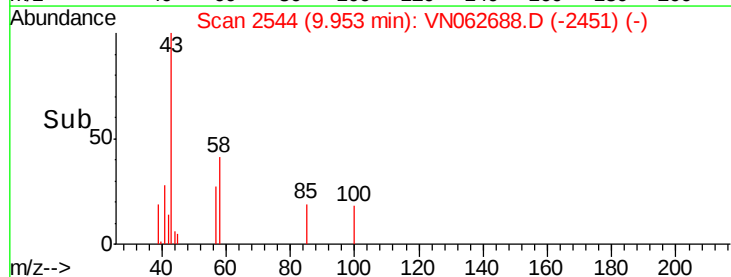
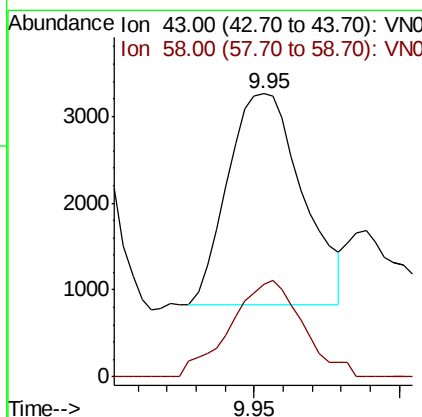
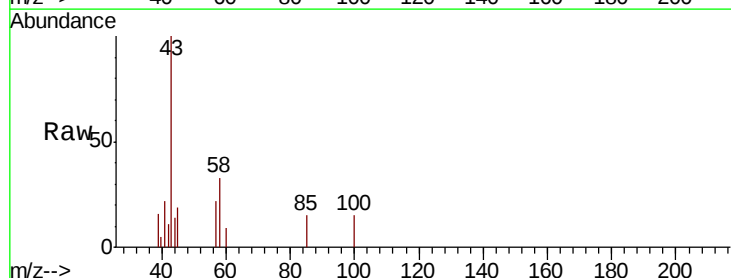
Instrument :
MSVOA_N
ClientSampleId :
PB130640ZHE#11

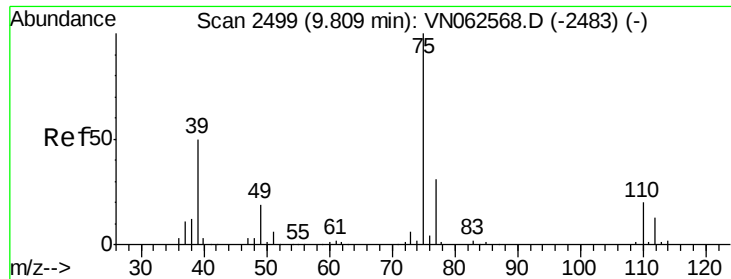
Tot Ion: 98 Resp: 315484
Ion Ratio Lower Upper
98 100
100 64.4 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 1.599 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062688.D
Acq: 31 Jul 2020 16:18

Tgt Ion: 43 Resp: 4343
Ion Ratio Lower Upper
43 100
58 44.1 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 6.221 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#11

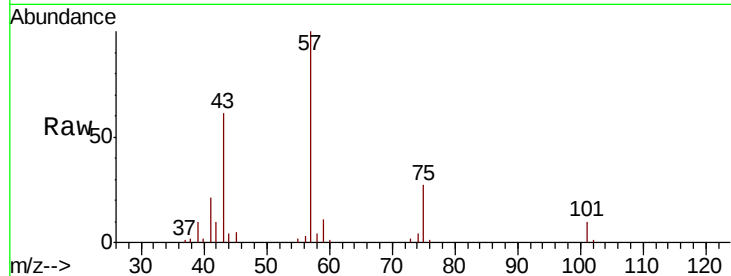
Tot Ion: 75 Resp: 20661

Ion Ratio Lower Upper

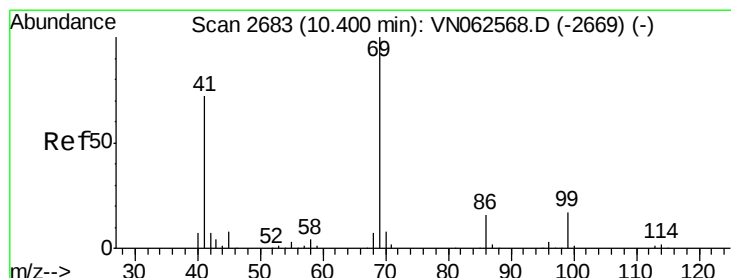
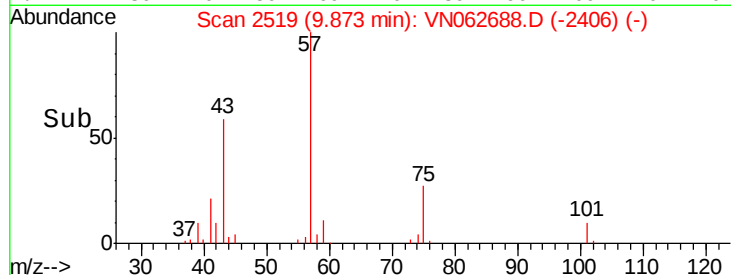
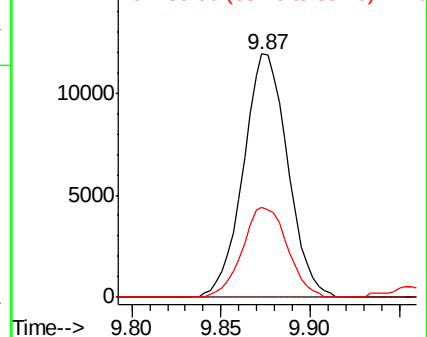
75 100

77 0.0 25.0 37.6#

39 36.8 39.8 59.8#



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: 2.158 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

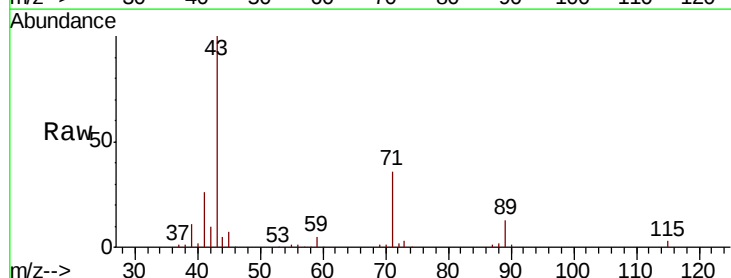
Tgt Ion: 69 Resp: 1291

Ion Ratio Lower Upper

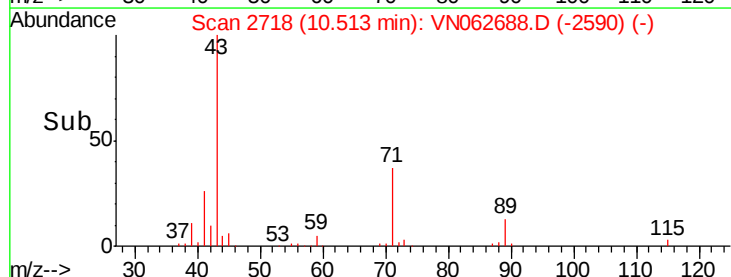
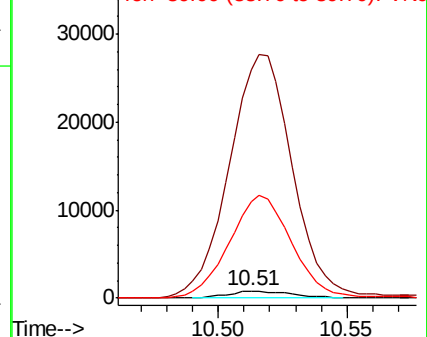
69 100

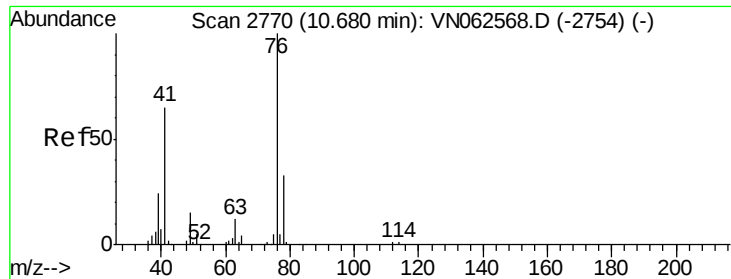
41 3657.7 57.2 85.8#

39 1534.3 28.6 43.0#



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

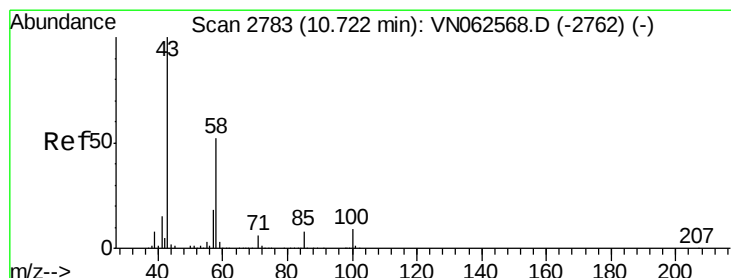
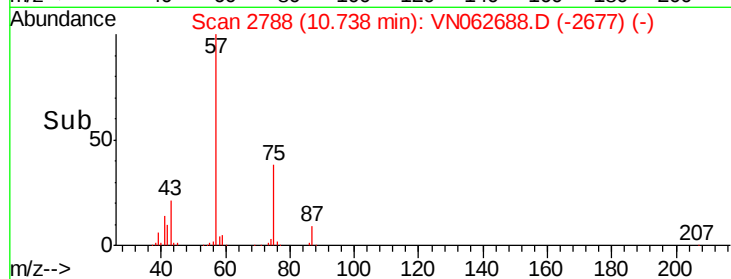
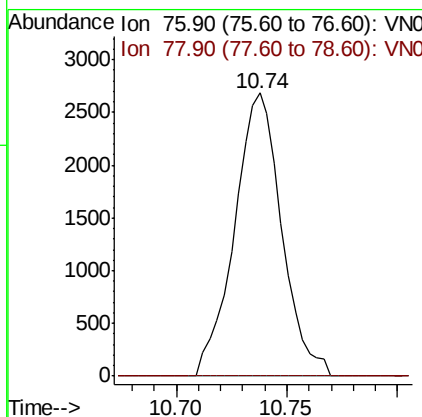
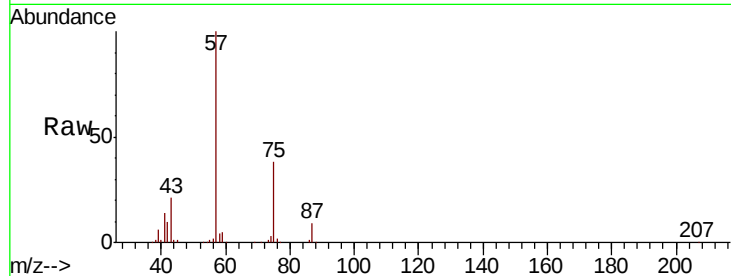




#57
 1,3-Dichloropropane
 Concen: 1.221 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

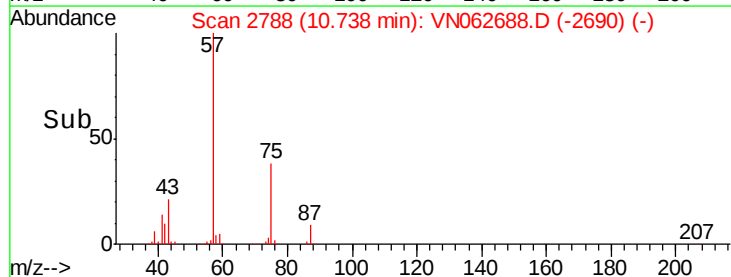
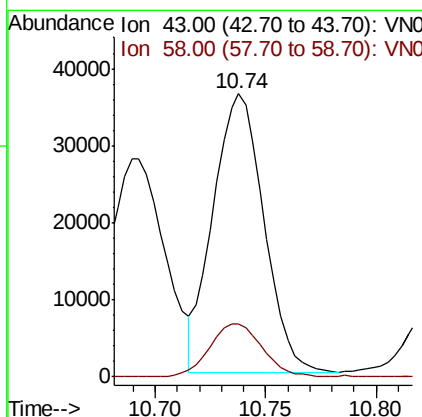
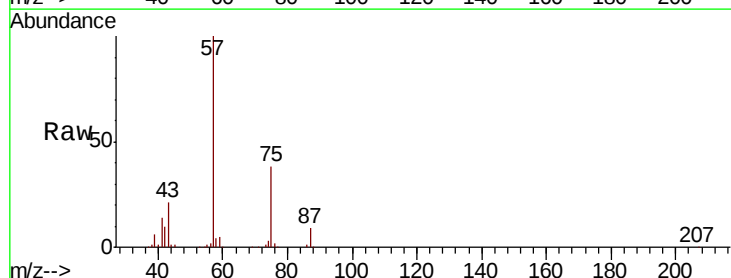
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#11

Tot Ion: 76 Resp: 3985
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 30.142 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Tgt Ion: 43 Resp: 57778
 Ion Ratio Lower Upper
 43 100
 58 19.6 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 49.432 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#11

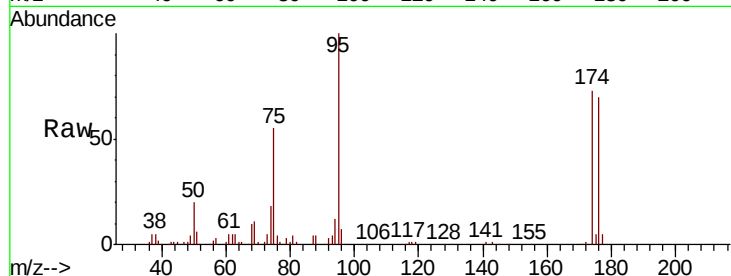
Tot Ion: 95 Resp: 116084

Ion Ratio Lower Upper

95 100

174 72.9 0.0 144.6

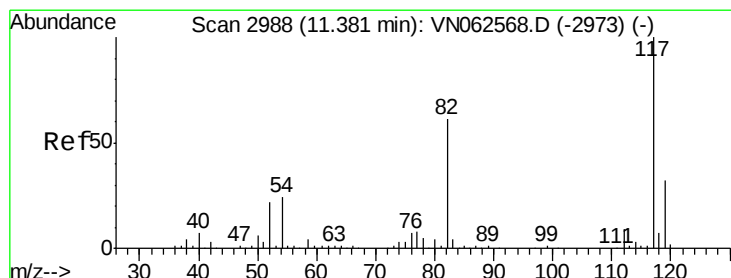
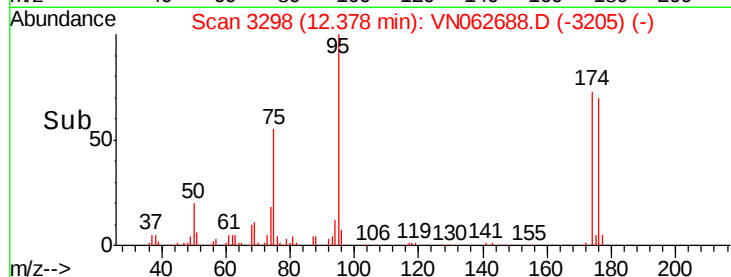
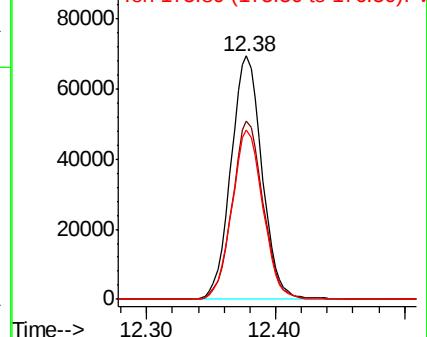
176 69.3 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062688.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062688.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062688.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

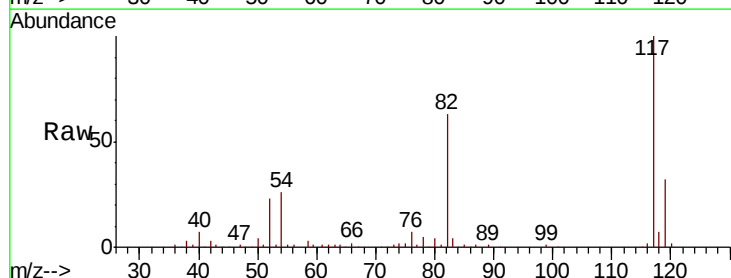
Tgt Ion: 117 Resp: 241529

Ion Ratio Lower Upper

117 100

82 62.7 49.0 73.6

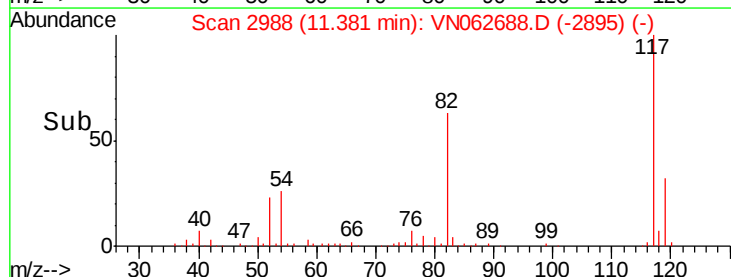
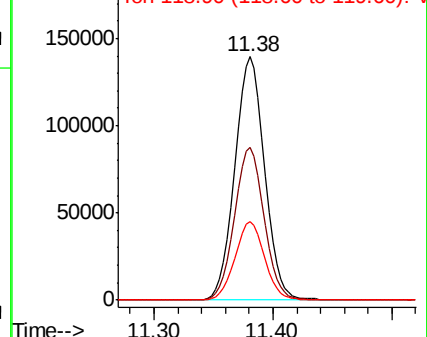
119 32.3 25.4 38.2

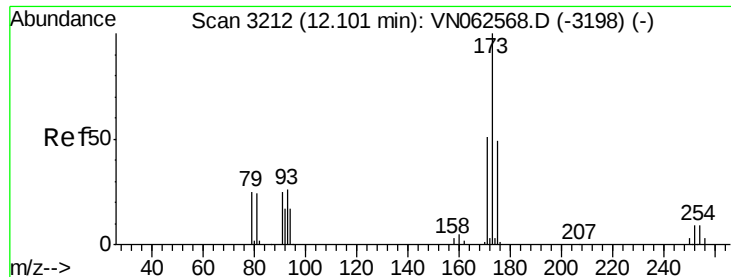


Abundance Ion 116.90 (116.60 to 117.60): VN062688.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062688.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062688.D (-2895) (-)





#71

Bromoform

Concen: 0.296 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#11

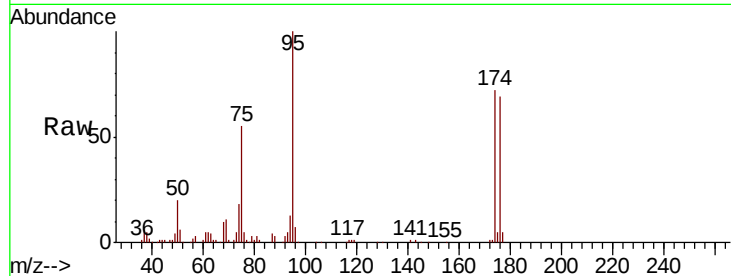
Tot Ion:173 Resp: 423

Ion Ratio Lower Upper

173 100

175 1211.6 24.1 72.2#

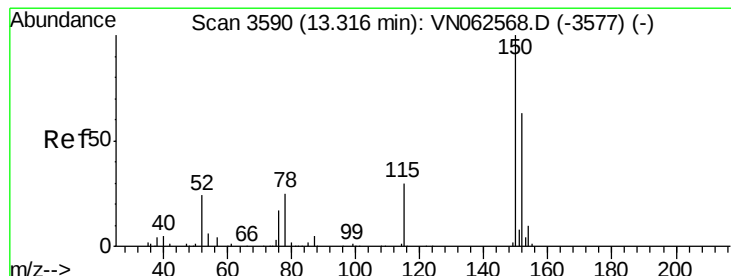
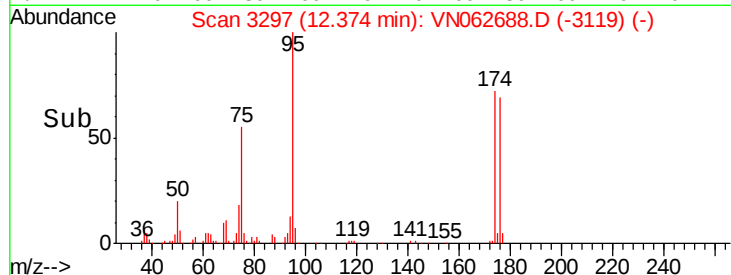
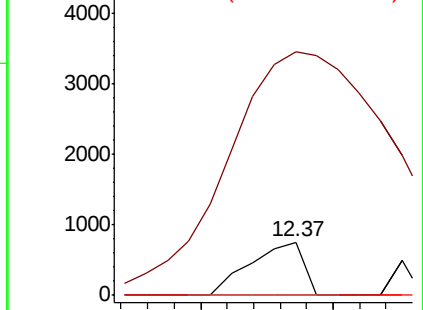
254 0.0 0.0 0.0



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: VN062688.D

Acq: 31 Jul 2020 16:18

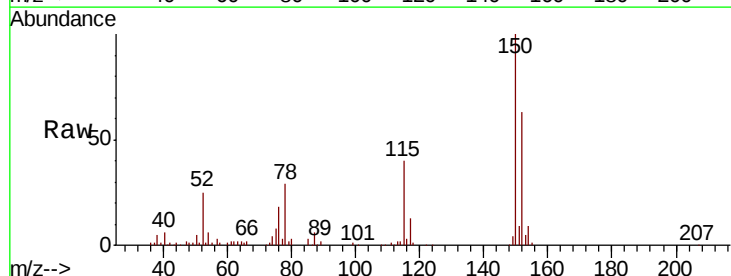
Tgt Ion:152 Resp: 86706

Ion Ratio Lower Upper

152 100

115 63.6 31.8 95.4

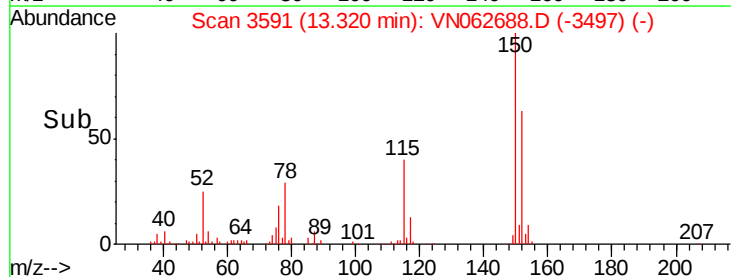
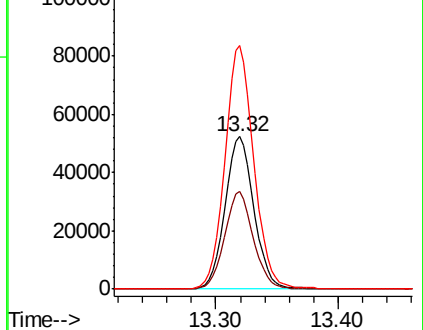
150 159.8 0.0 351.4

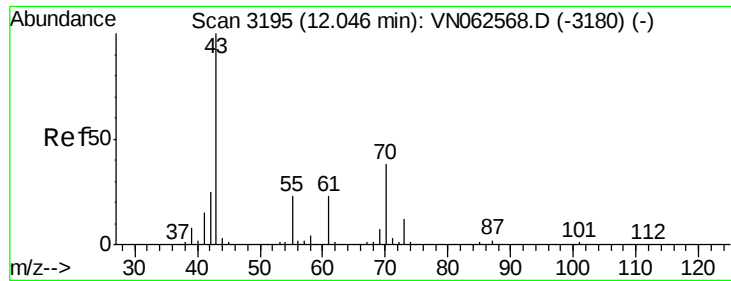


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.748 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062688.D

Acq: 31 Jul 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

PB130640ZHE#11

Tot Ion: 43 Resp: 2290

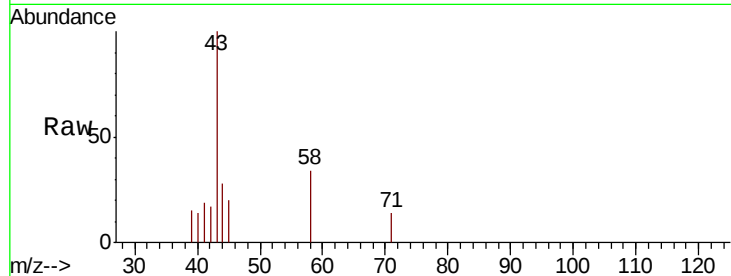
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

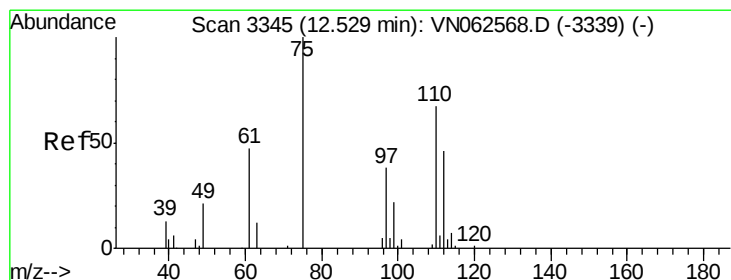
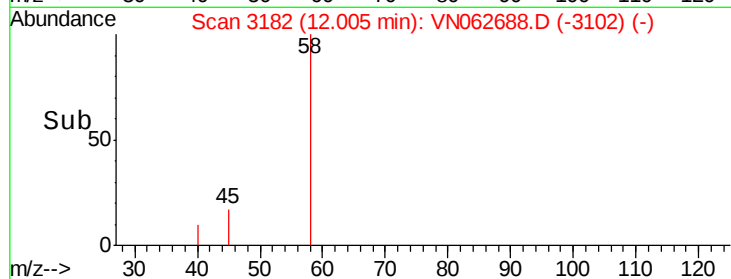
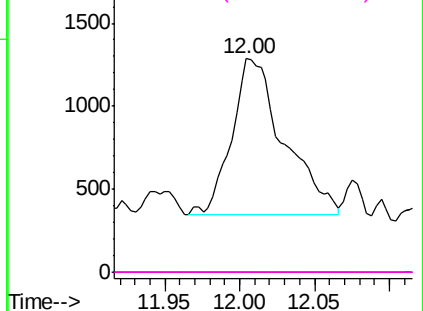


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.600 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062688.D

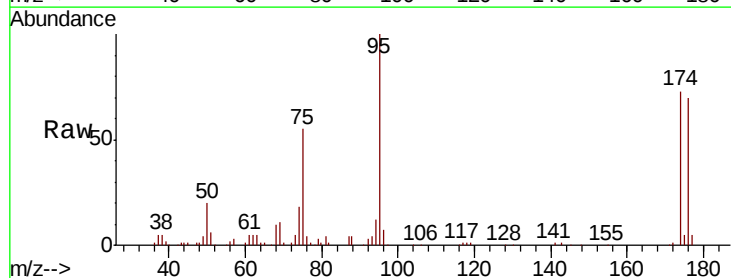
Acq: 31 Jul 2020 16:18

Tgt Ion: 75 Resp: 63119

Ion Ratio Lower Upper

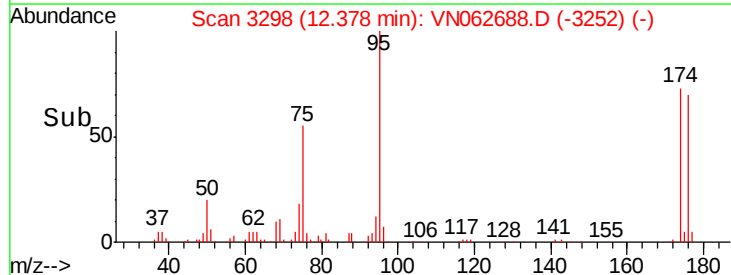
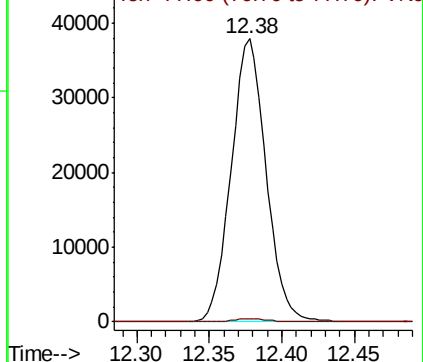
75 100

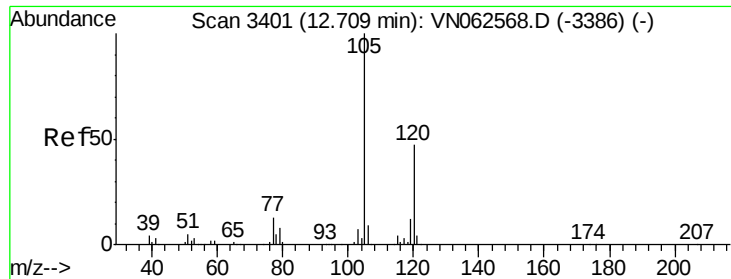
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

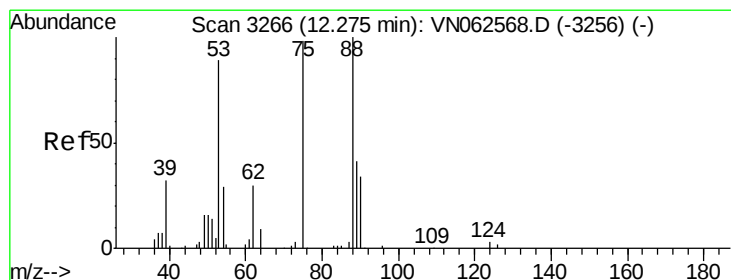
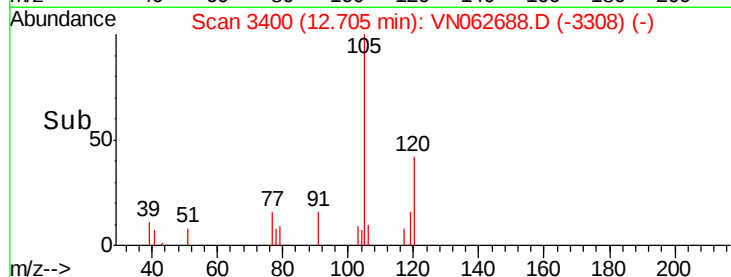
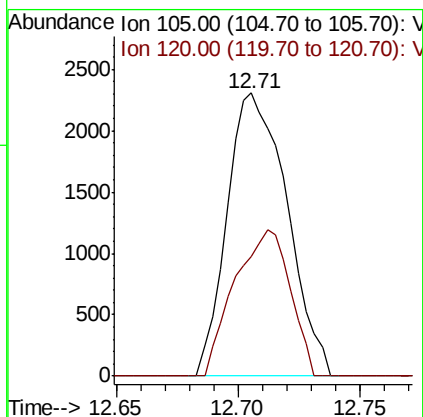
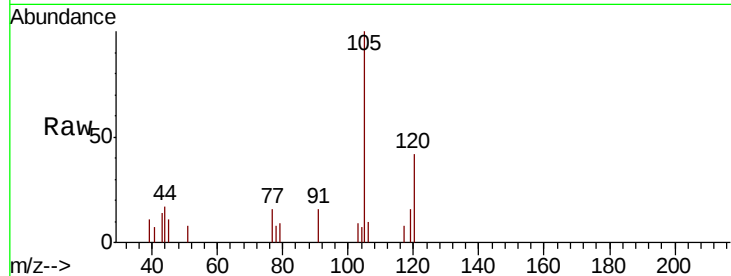




#80
 1,3,5-Trimethylbenzene
 Concen: 0.692 ug/l
 RT: 12.71 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130640ZHE#11

Tot Ion:105 Resp: 3934
 Ion Ratio Lower Upper
 105 100
 120 48.1 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.615 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062688.D
 Acq: 31 Jul 2020 16:18

Tgt Ion: 75 Resp: 63119
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#

