

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072120\
 Data File : VN062580.D
 Acq On : 21 Jul 2020 18:52
 Operator : JC/MD
 Sample : PB130329ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329ZHE#14

Quant Time: Jul 22 05:06:51 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	175532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	314728	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	318217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	114130	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	139521	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
35) Dibromofluoromethane	7.55	113	104908	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.06	98	422111	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.38	95	149176	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	414	0.306	ug/l	77
11) Tert butyl alcohol	4.73	59	266	0.613	ug/l #	73
16) Acetone	3.78	43	17972	17.515	ug/l	97
18) Methyl Acetate	4.28	43	1380	0.531	ug/l #	86
20) Methylene Chloride	4.51	84	32625	13.257	ug/l	98
25) 2-Butanone	6.79	43	6849	4.383	ug/l	98
29) Tetrahydrofuran	7.18	42	975	0.922	ug/l #	38
31) Cyclohexane	7.62	56	4383	1.091	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	15242	4.544	ug/l #	50
37) Ethyl Acetate	6.79	43	6849	1.894	ug/l #	69
38) Carbon Tetrachloride	7.63	117	18912	5.865	ug/l #	17
43) Isopropyl Acetate	8.13	43	71942	12.341	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1500	0.526	ug/l #	44
48) Methyl methacrylate	9.14	41	4686	1.691	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7295	2.091	ug/l	92
54) cis-1,3-Dichloropropene	9.88	75	27507	6.449	ug/l #	64
56) Ethyl methacrylate	10.52	69	1342	2.084	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4983	1.189	ug/l #	42
59) 2-Hexanone	10.74	43	78684	31.783	ug/l #	55
71) Bromoform	12.38	173	936	0.497	ug/l #	1
74) N-amyl acetate	12.00	43	3081	0.764	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	78535	27.034	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2789	0.373	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	78535	75.257	ug/l #	12
95) Naphthalene	15.11	128	223	3.802	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062580.D

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Instrument :

MSVOA_N

ClientSampleId :

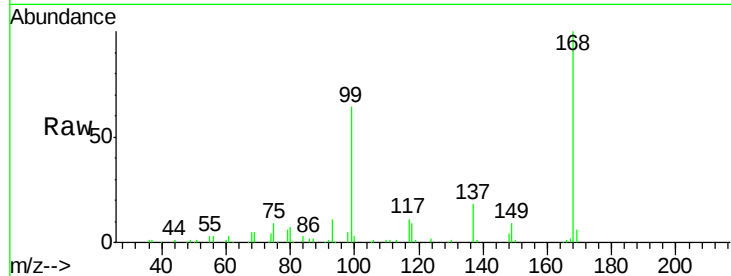
PB130329ZHE#14

Tot Ion:168 Resp: 175532

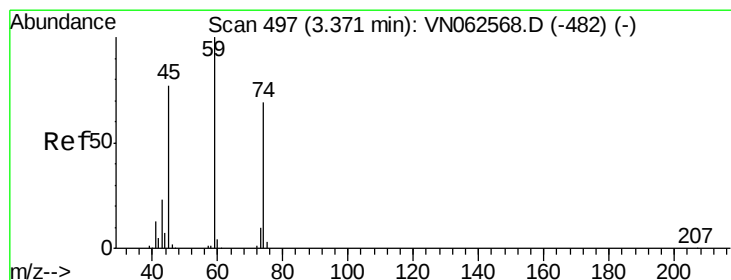
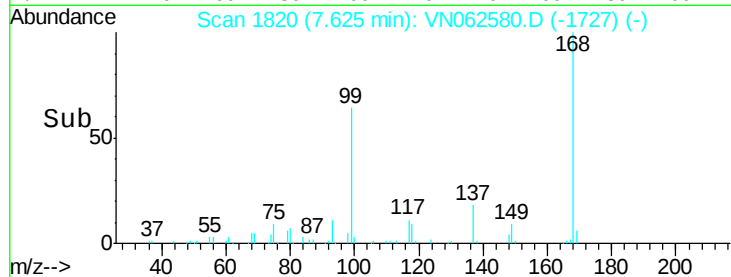
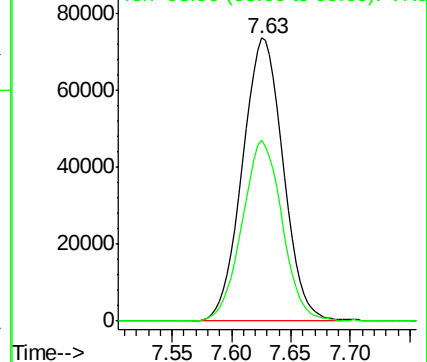
Ion Ratio Lower Upper

168 100

99 63.8 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062580.D (-1727) (-)



#8

Diethyl Ether

Concen: 0.306 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.01 min

Lab File: VN062580.D

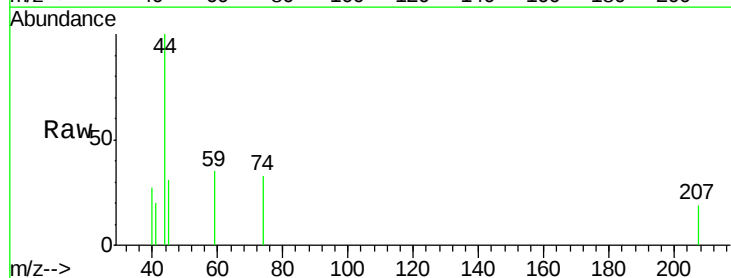
Acq: 21 Jul 2020 18:52

Tgt Ion: 74 Resp: 414

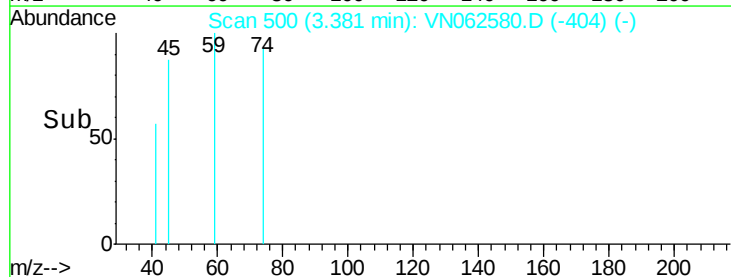
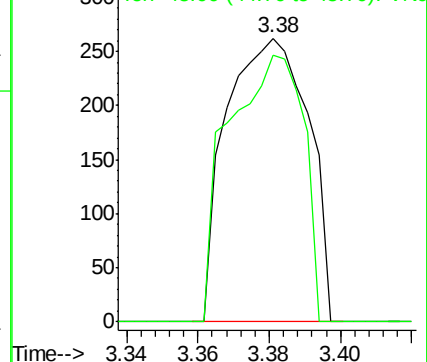
Ion Ratio Lower Upper

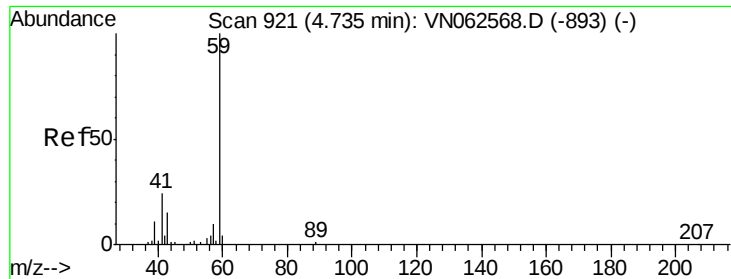
74 100

45 86.5 55.3 165.8



Abundance Ion 74.00 (73.70 to 74.70): VN062580.D (-404) (-)

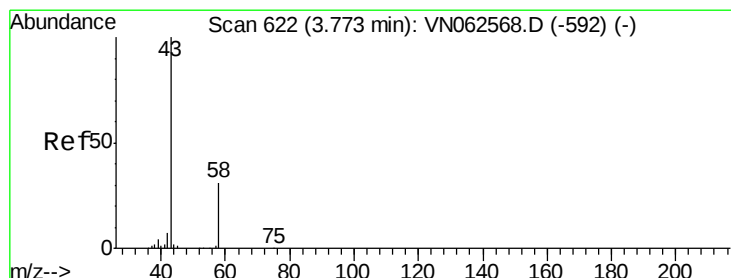
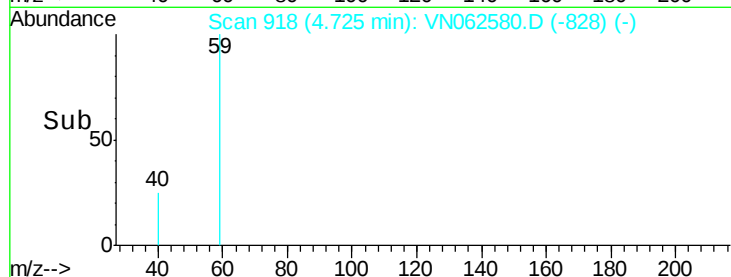
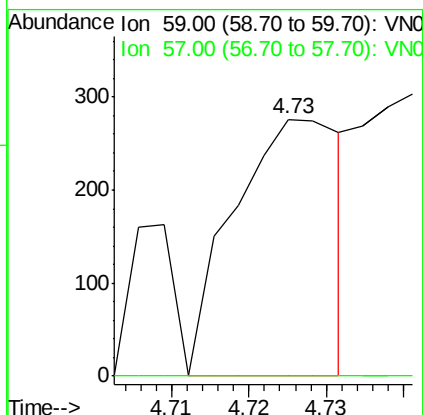
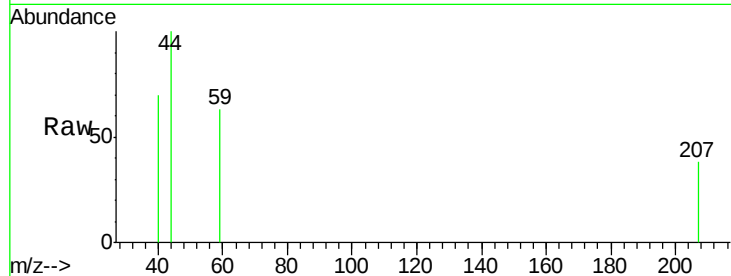




#11
Tert butyl alcohol
Concen: 0.613 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.01 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

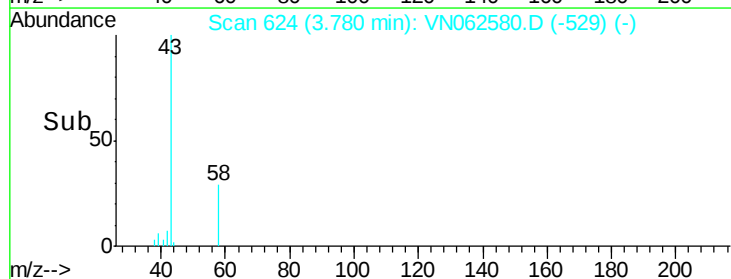
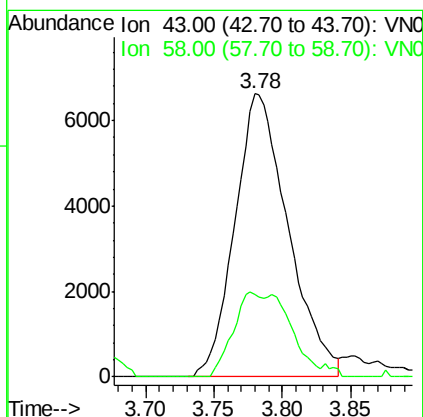
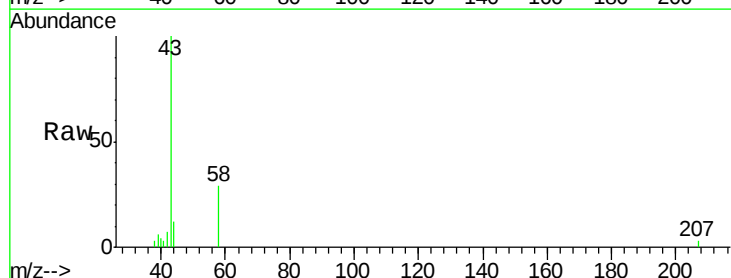
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#14

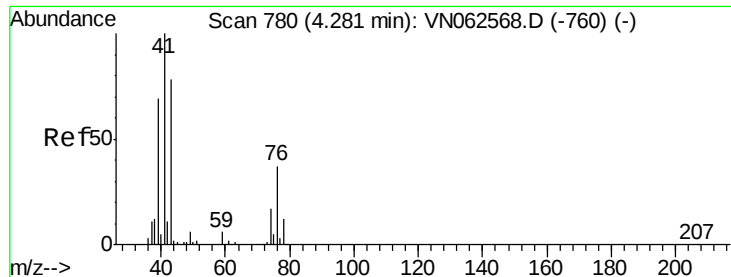
Tot Ion: 59 Resp: 266
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 17.515 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Tgt Ion: 43 Resp: 17972
Ion Ratio Lower Upper
43 100
58 29.2 24.6 37.0

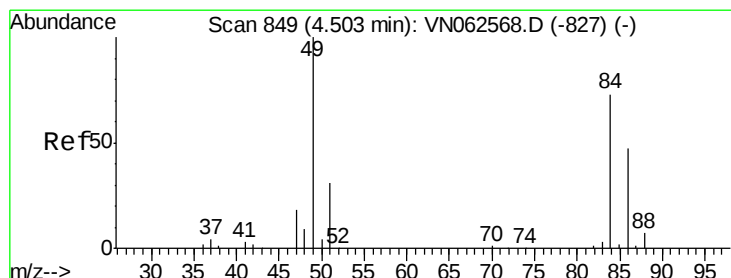
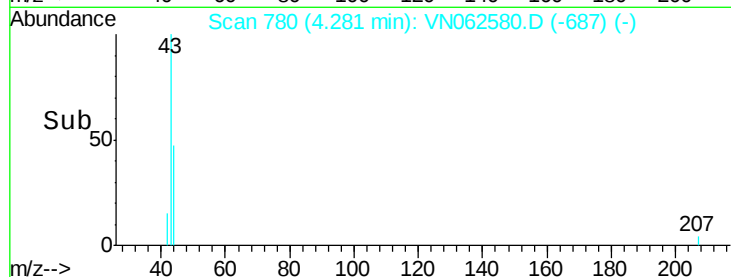
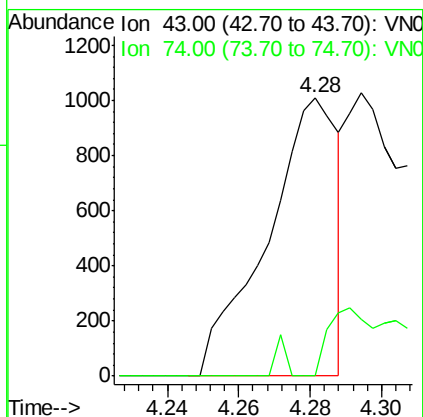
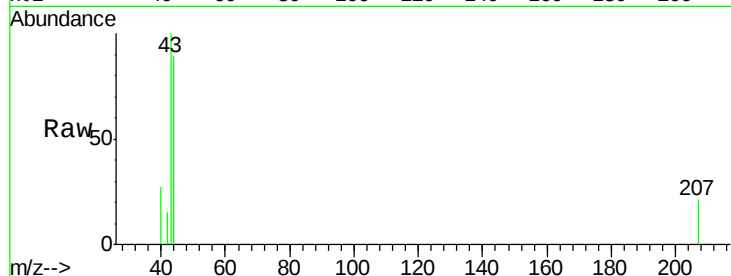




#18
Methvl Acetate
Concen: 0.531 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.00 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

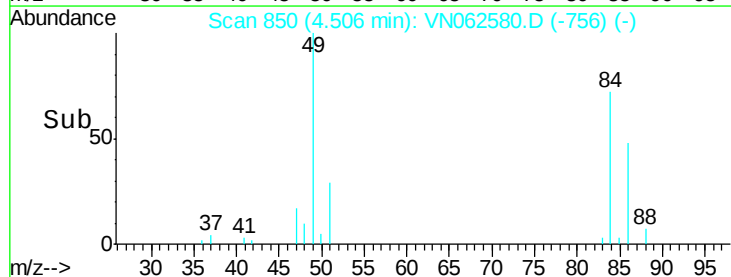
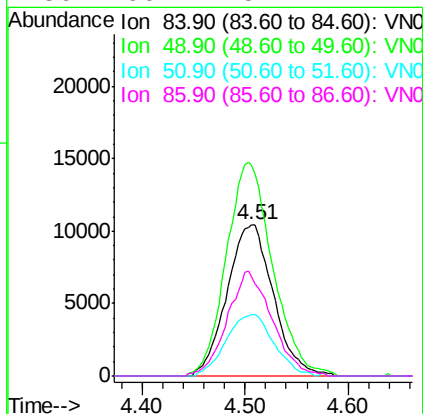
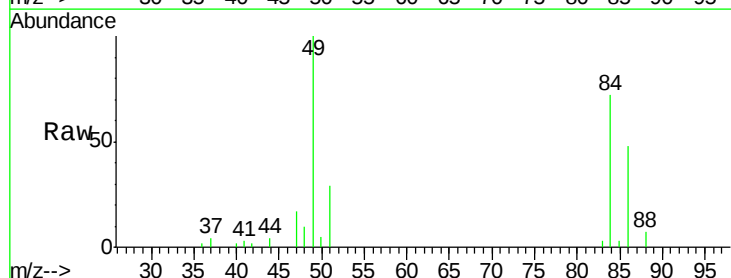
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#14

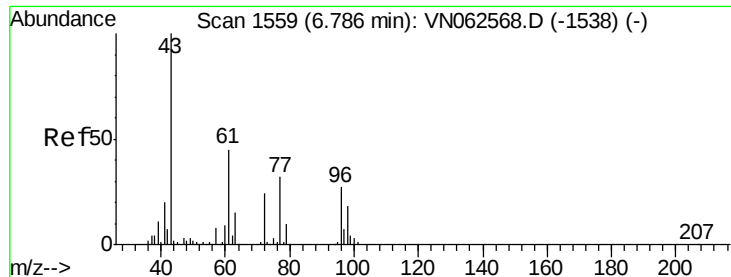
Tot Ion: 43 Resp: 1380
Ion Ratio Lower Upper
43 100
74 14.3 16.6 24.8#



#20
Methylene Chloride
Concen: 13.257 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Tgt Ion: 84 Resp: 32625
Ion Ratio Lower Upper
84 100
49 139.1 109.4 164.0
51 40.6 33.6 50.4
86 66.2 51.4 77.2





#25

2-Butanone

Concen: 4.383 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

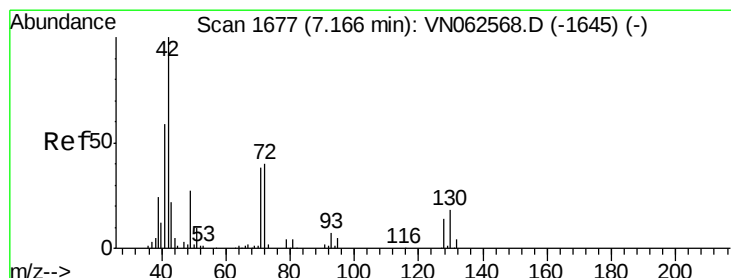
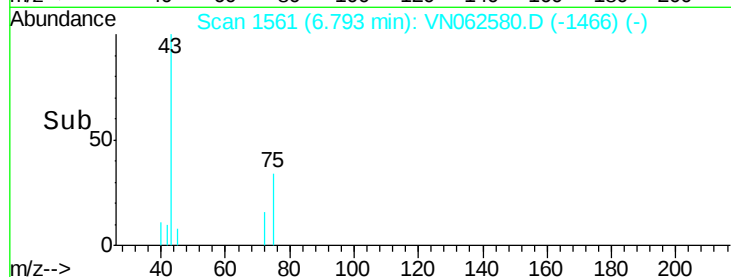
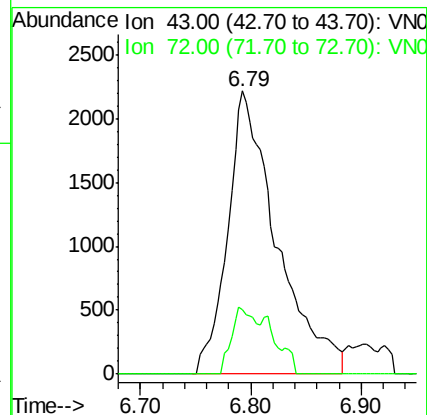
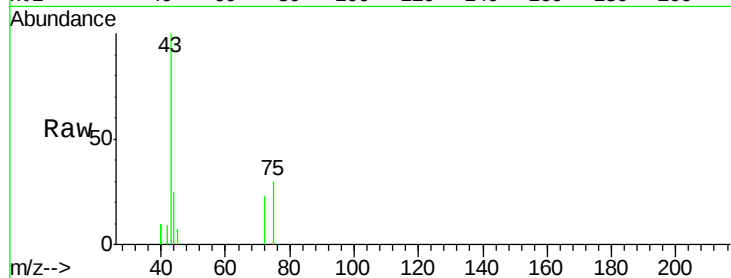
PB130329ZHE#14

Tot Ion: 43 Resp: 6849

Ion Ratio Lower Upper

43 100

72 23.0 19.0 28.6



#29

Tetrahydrofuran

Concen: 0.922 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

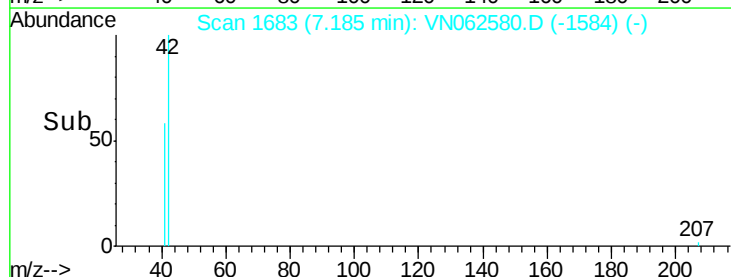
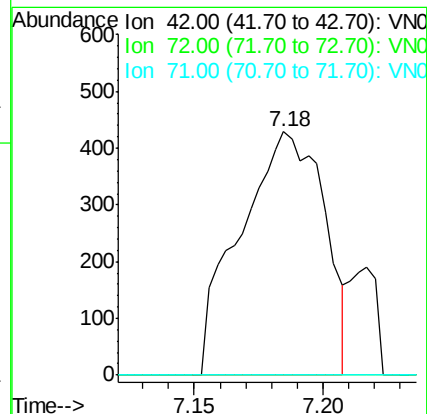
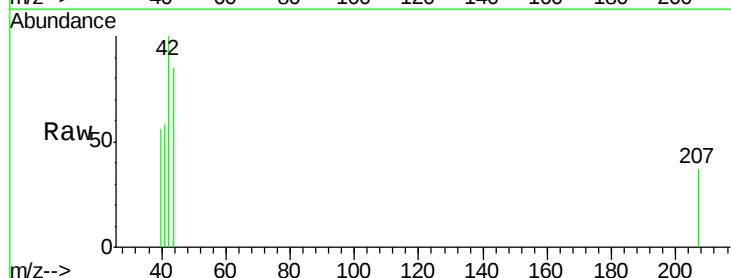
Tgt Ion: 42 Resp: 975

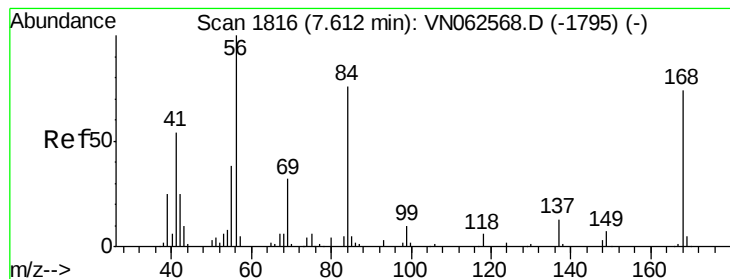
Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 29.1 43.7#





#31

Cyclohexane

Concen: 1.091 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#14

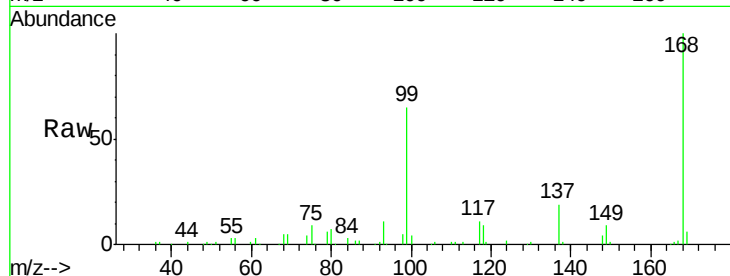
Tot Ion: 56 Resp: 4383

Ion Ratio Lower Upper

56 100

69 167.2 25.3 37.9#

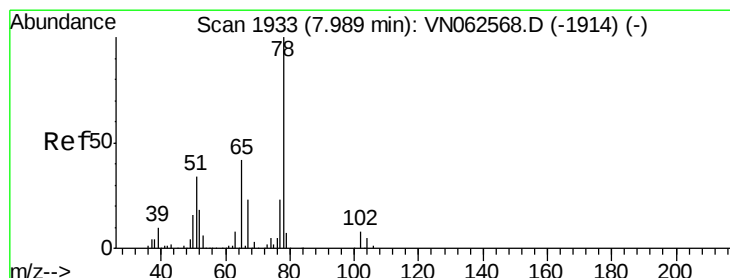
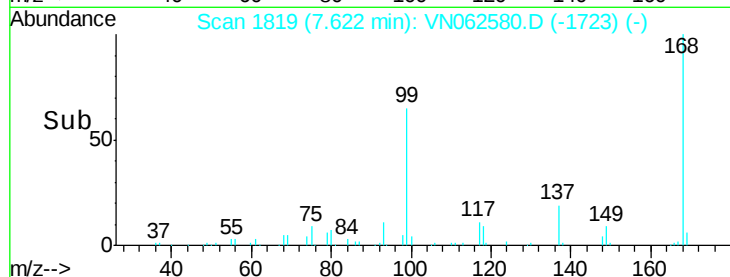
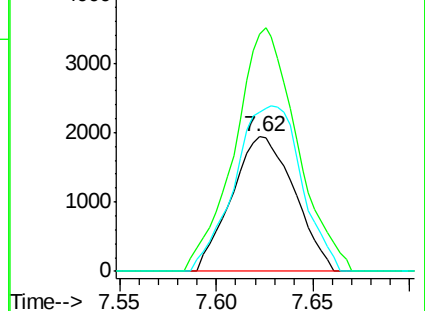
84 118.3 61.0 91.4#



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: 51.166 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062580.D

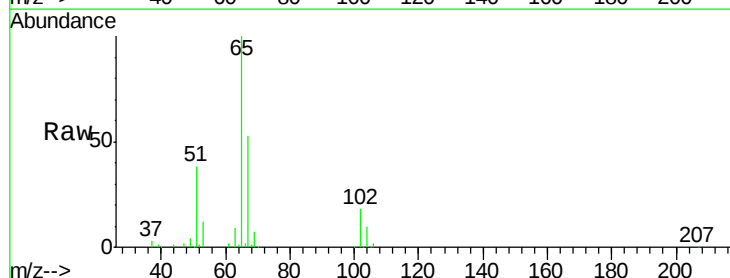
Acq: 21 Jul 2020 18:52

Tgt Ion: 65 Resp: 139521

Ion Ratio Lower Upper

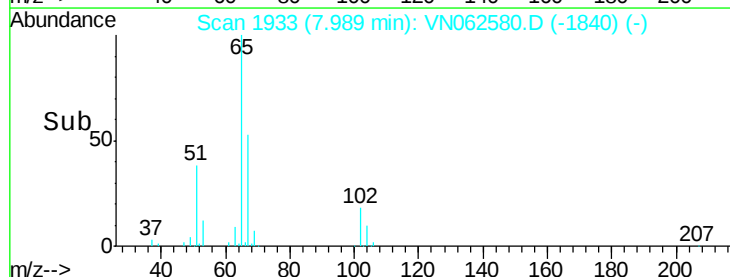
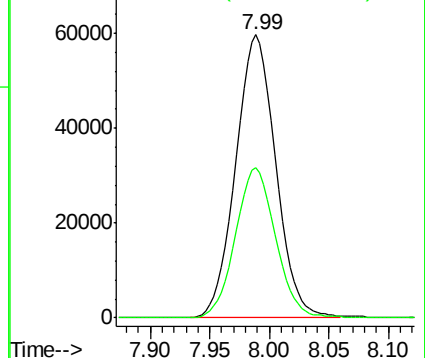
65 100

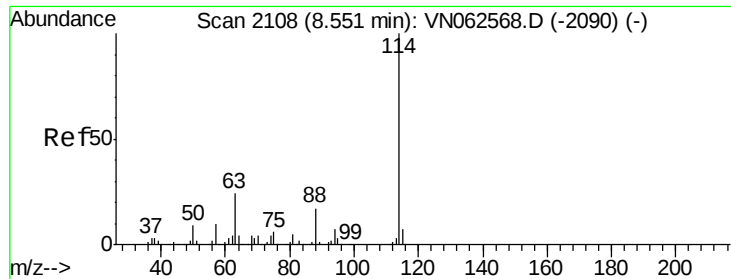
67 53.0 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

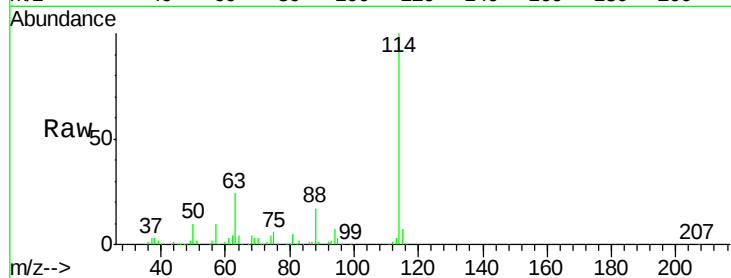




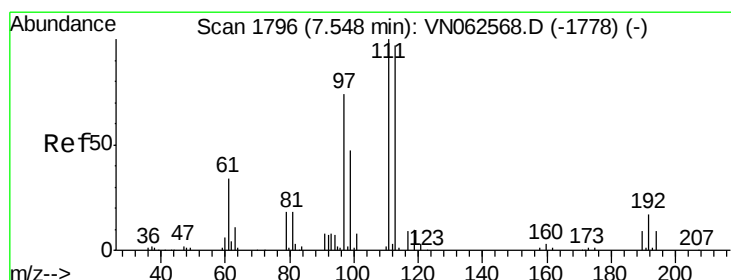
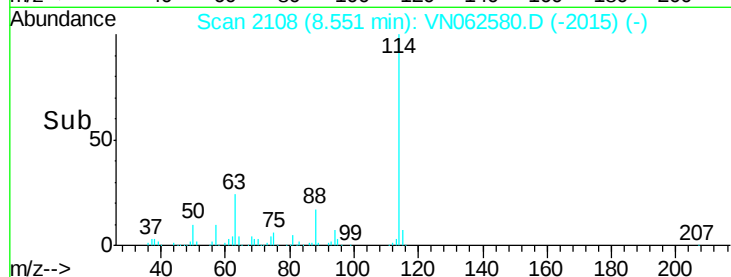
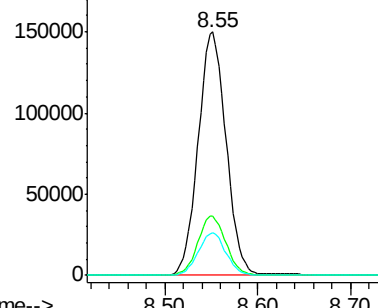
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

Instrument :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	48.4
88	17.5	0.0	33.8

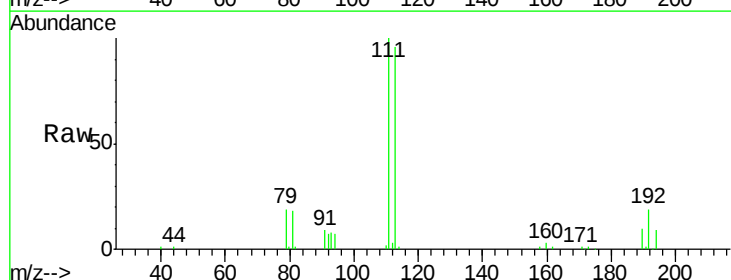


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

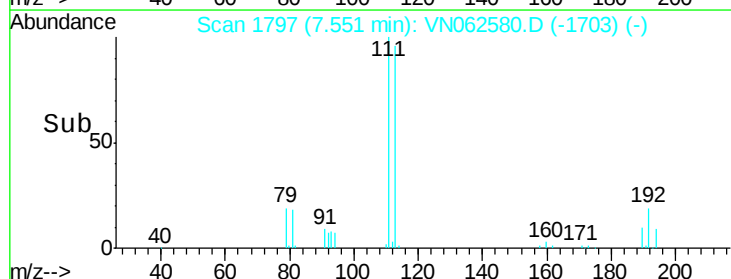
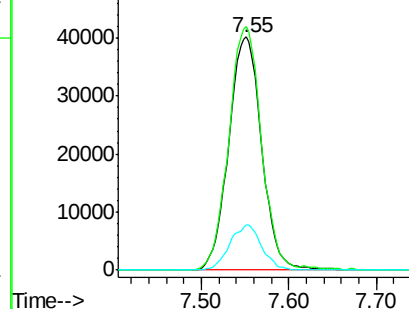


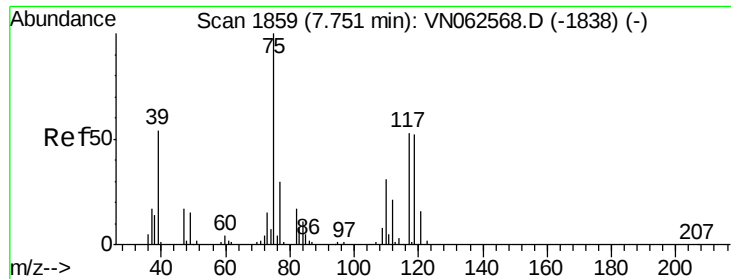
#35
 Dibromofluoromethane
 Concen: 50.746 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.7	124.1
192	18.7	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

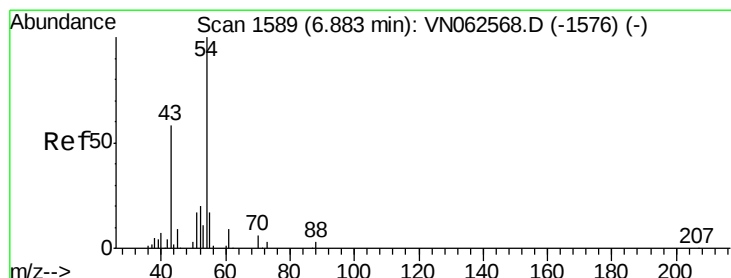
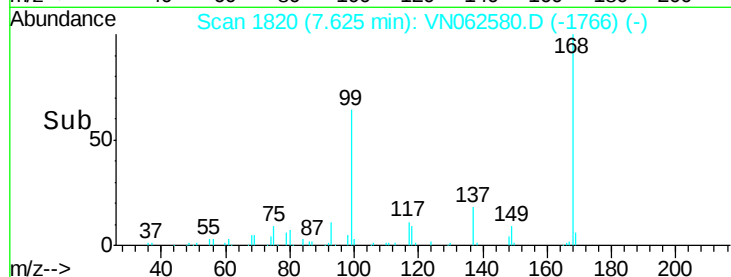
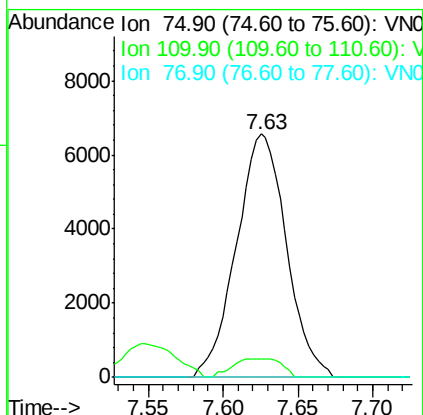
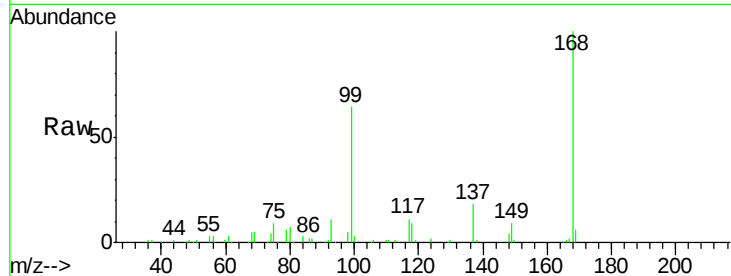




#36
 1,1-Dichloropropene
 Concen: 4.544 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

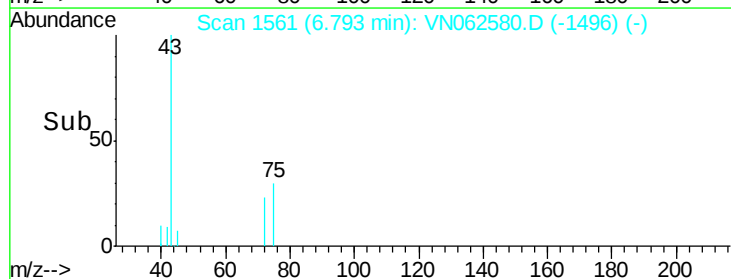
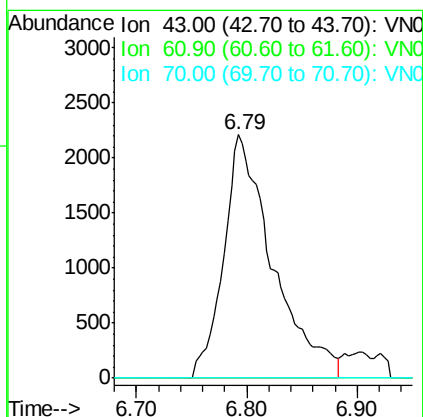
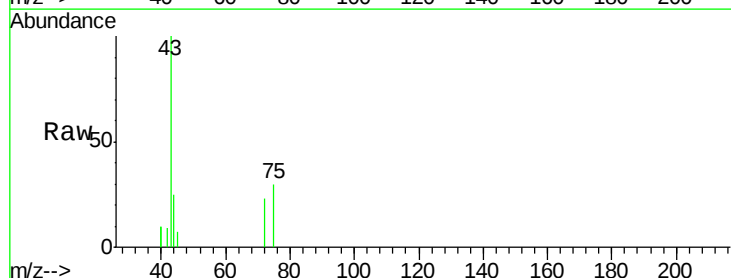
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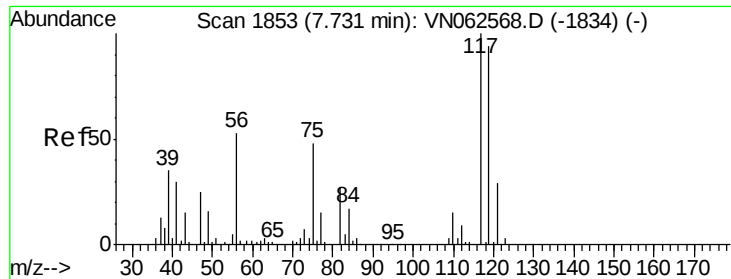
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	16.0	48.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.894 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.7	11.5#

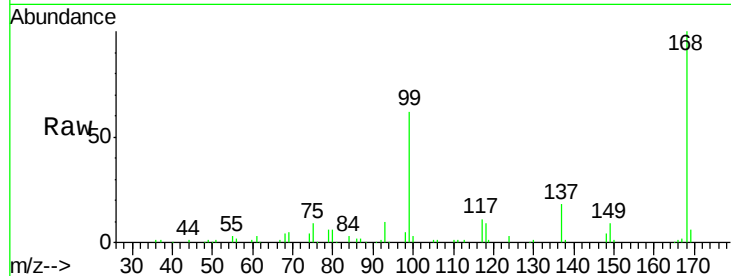




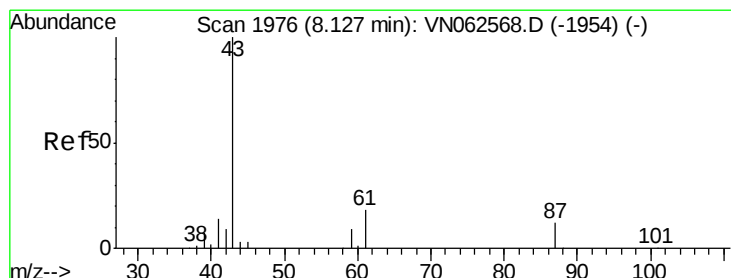
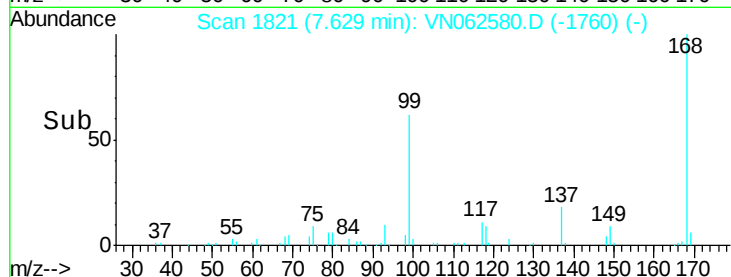
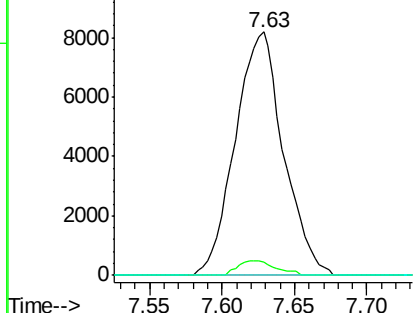
#38
Carbon Tetrachloride
Concen: 5.865 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#14

Tot Ion:117 Resp: 18912
Ion Ratio Lower Upper
117 100
119 5.7 74.8 112.2#
121 0.0 23.0 34.6#

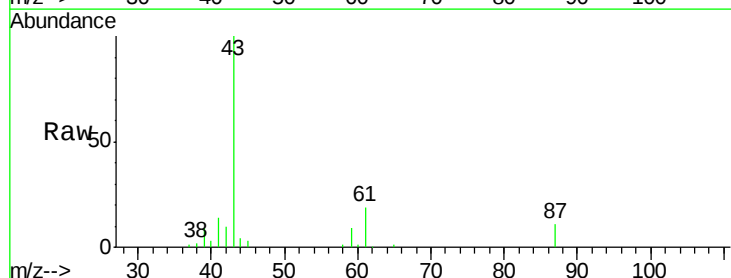


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

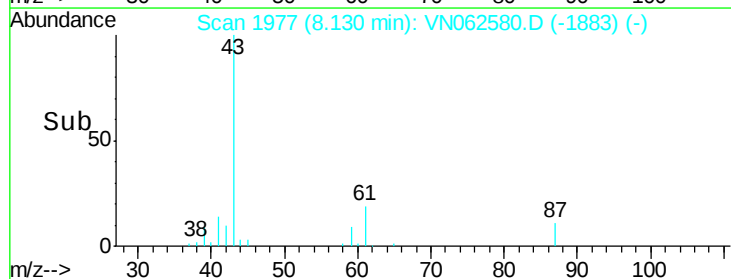
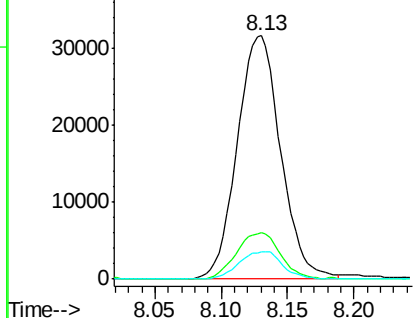


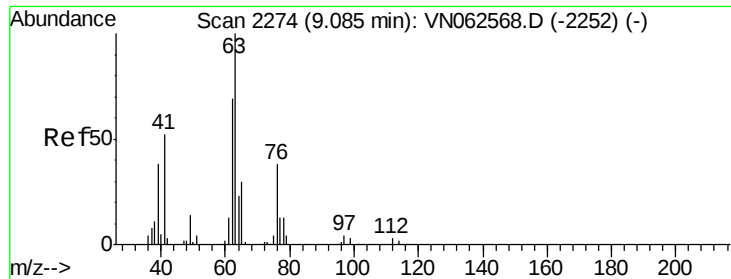
#43
Isopropyl Acetate
Concen: 12.341 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Tgt Ion: 43 Resp: 71942
Ion Ratio Lower Upper
43 100
61 19.3 20.8 31.2#
87 11.1 9.2 13.8



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





#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

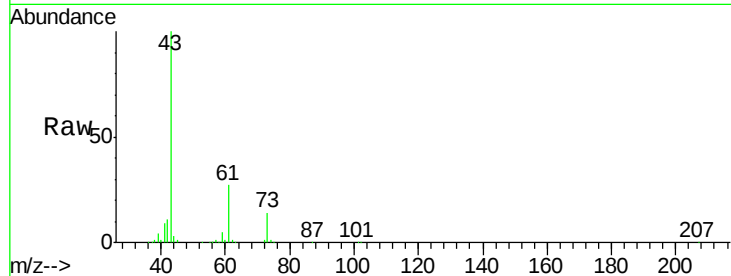
PB130329ZHE#14

Tot Ion: 63 Resp: 1500

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

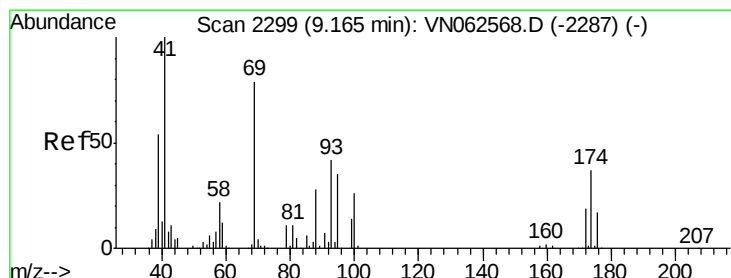
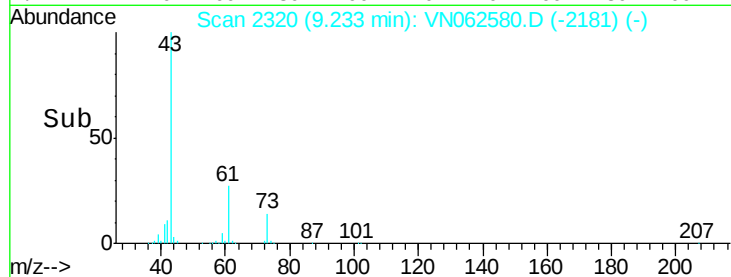
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.691 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

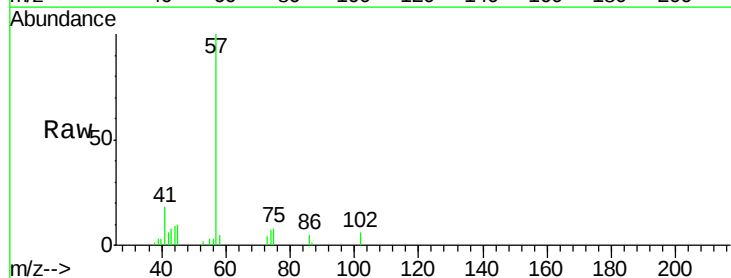
Tgt Ion: 41 Resp: 4686

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

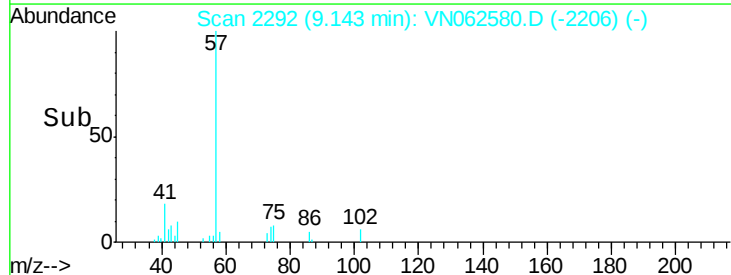
60000

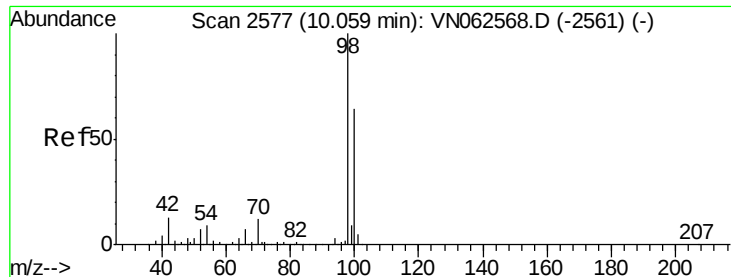
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 51.175 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

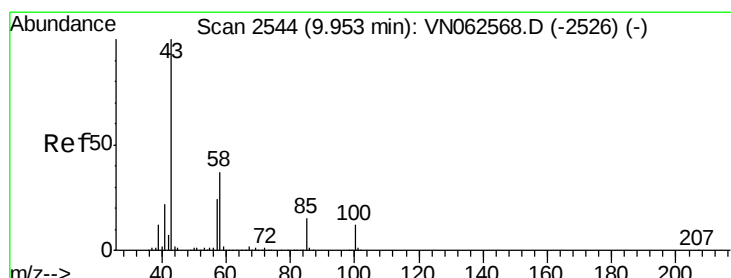
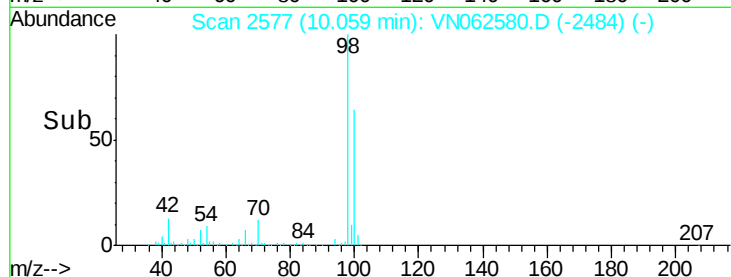
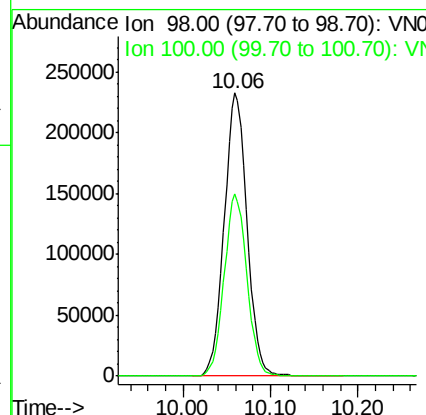
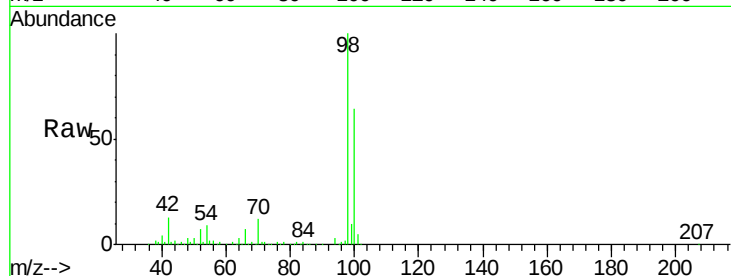
PB130329ZHE#14

Tot Ion: 98 Resp: 422111

Ion Ratio Lower Upper

98 100

100 64.2 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 2.091 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062580.D

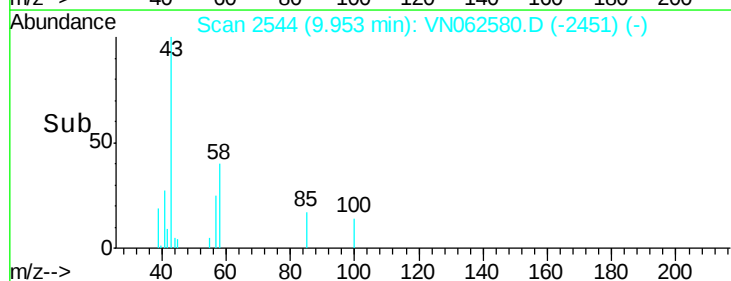
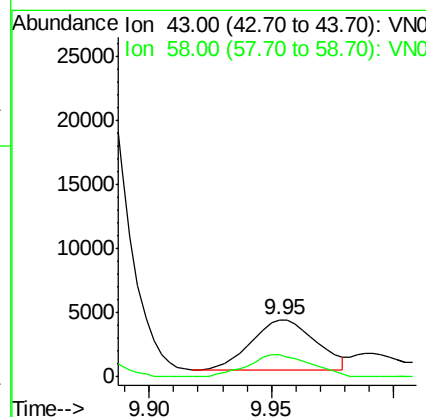
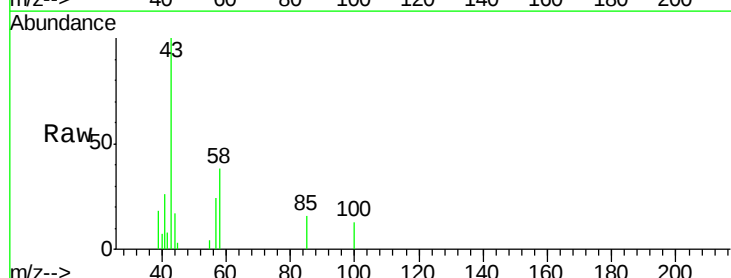
Acq: 21 Jul 2020 18:52

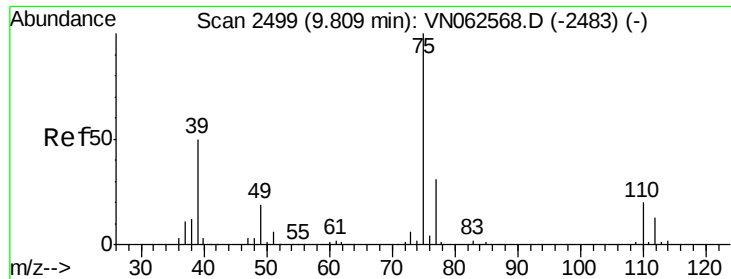
Tgt Ion: 43 Resp: 7295

Ion Ratio Lower Upper

43 100

58 42.3 29.8 44.6

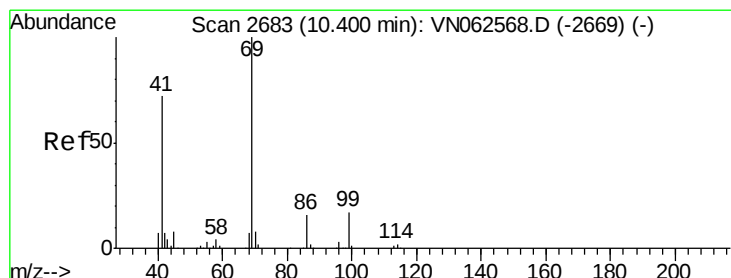
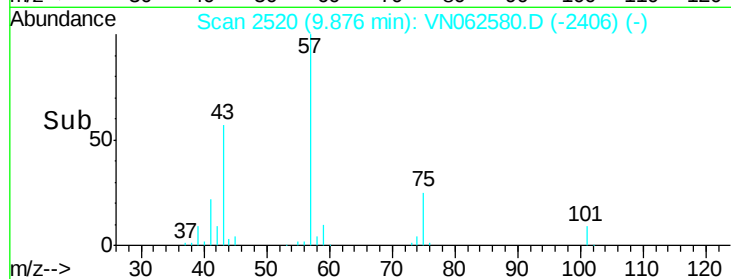
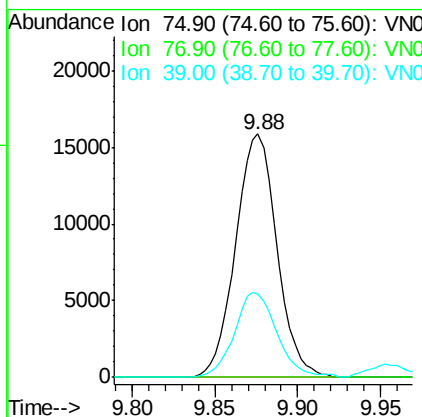
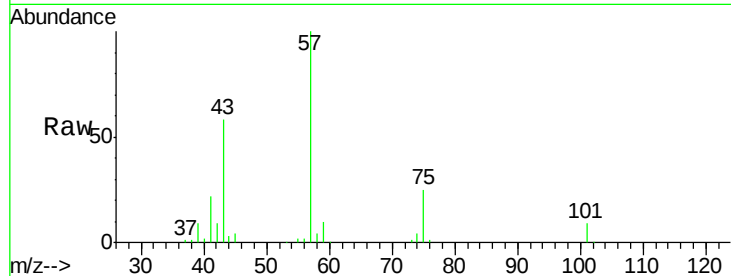




#54
 cis-1,3-Dichloropropene
 Concen: 6.449 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

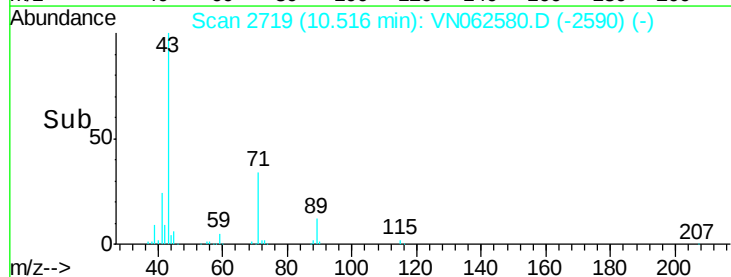
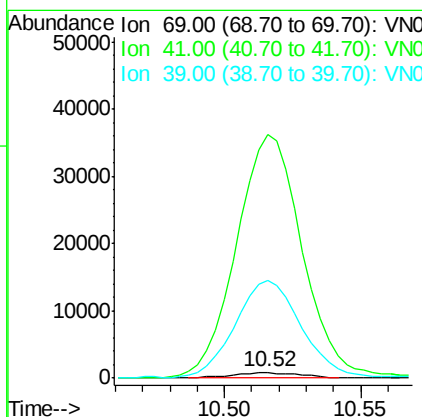
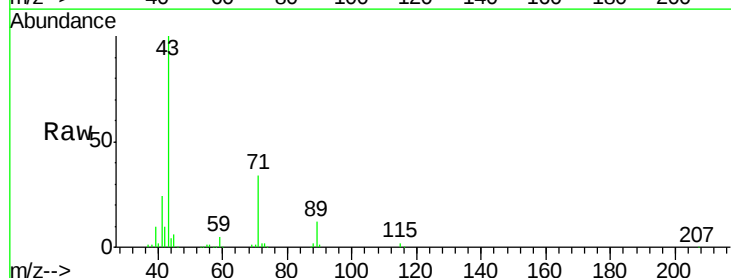
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329ZHE#14

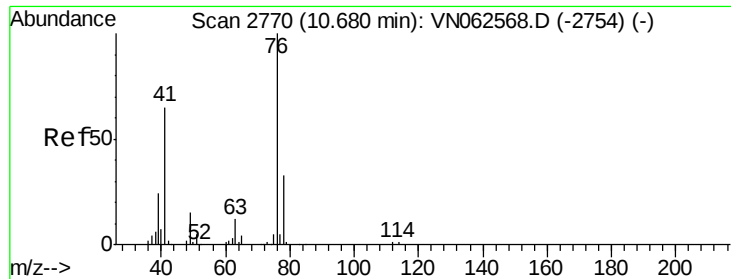
Tot Ion: 75 Resp: 27507
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 34.2 39.8 59.8#



#56
 Ethyl methacrylate
 Concen: 2.084 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

Tgt Ion: 69 Resp: 1342
 Ion Ratio Lower Upper
 69 100
 41 4544.1 57.2 85.8#
 39 1843.7 28.6 43.0#

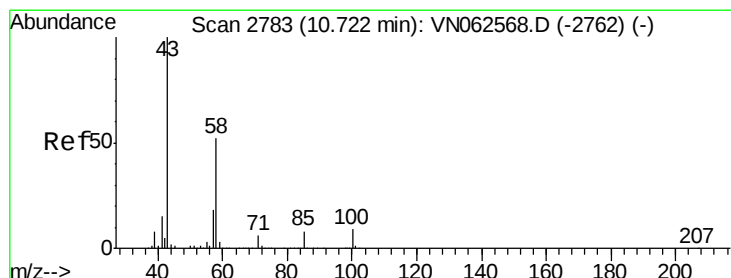
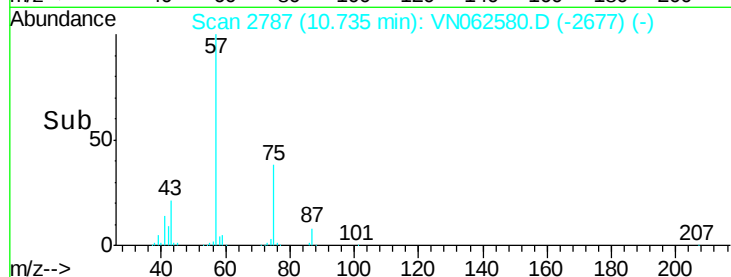
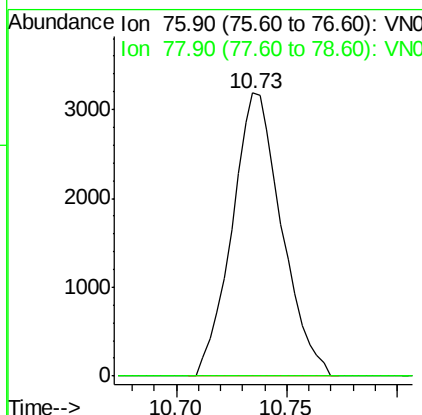
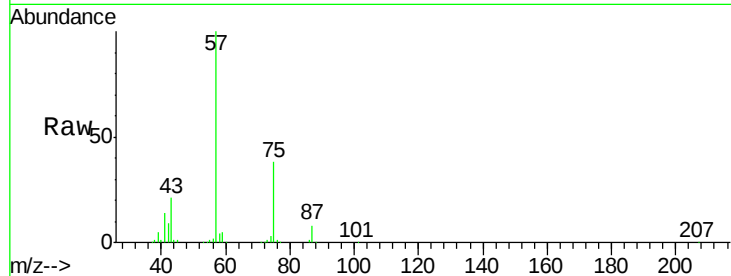




#57
 1,3-Dichloropropane
 Concen: 1.189 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

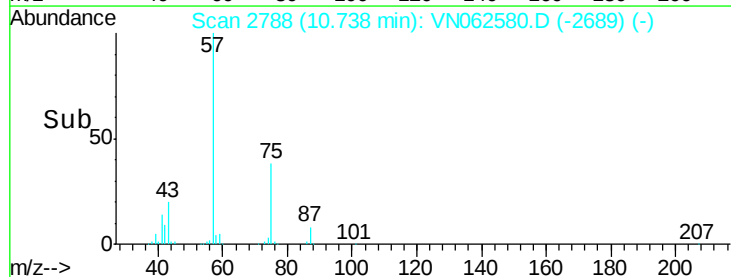
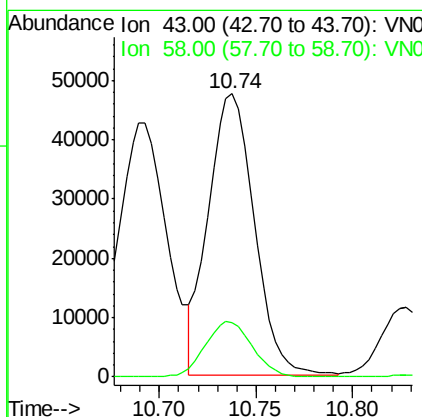
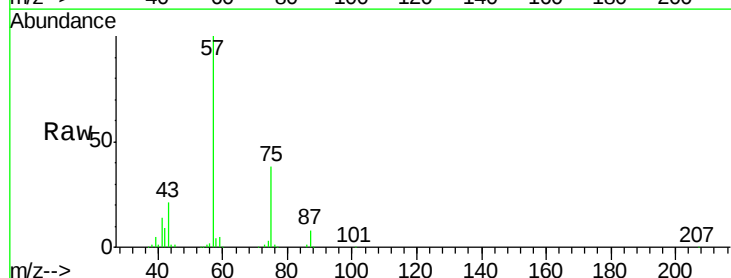
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329ZHE#14

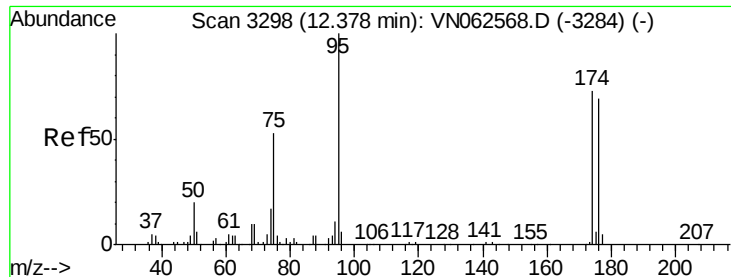
Tot Ion: 76 Resp: 4983
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 31.783 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062580.D
 Acq: 21 Jul 2020 18:52

Tgt Ion: 43 Resp: 78684
 Ion Ratio Lower Upper
 43 100
 58 20.0 26.0 78.0#

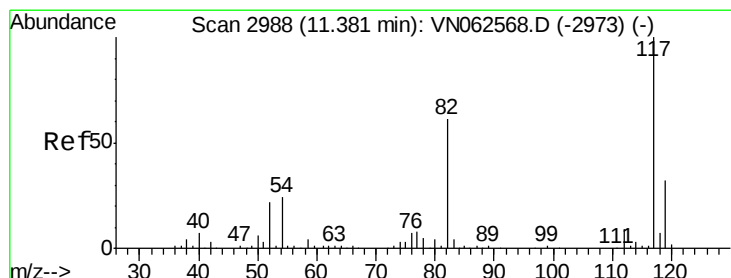
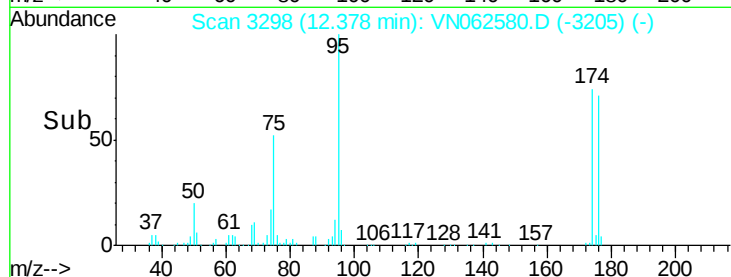
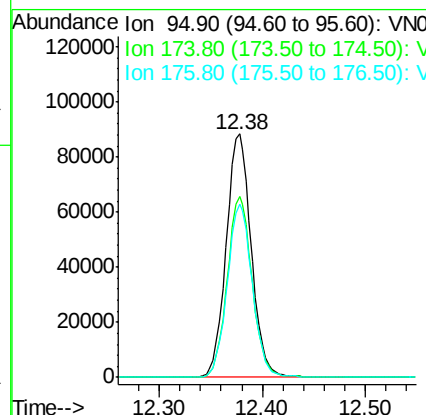
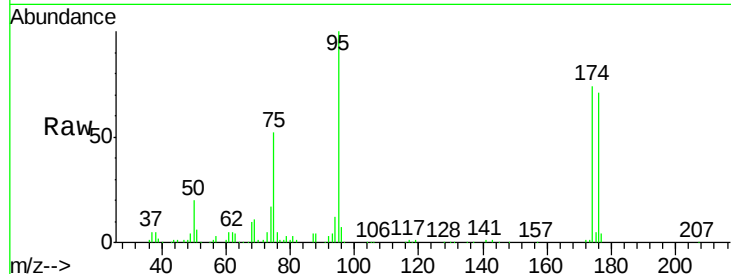




#62
4-Bromofluorobenzene
Concen: 49.462 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

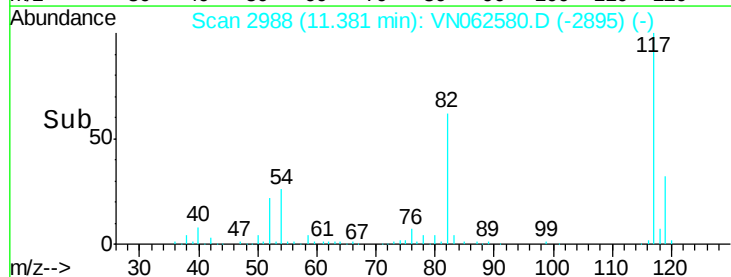
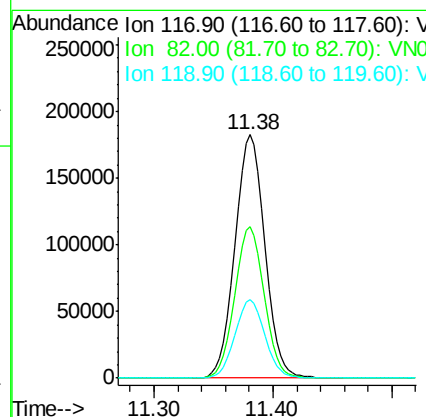
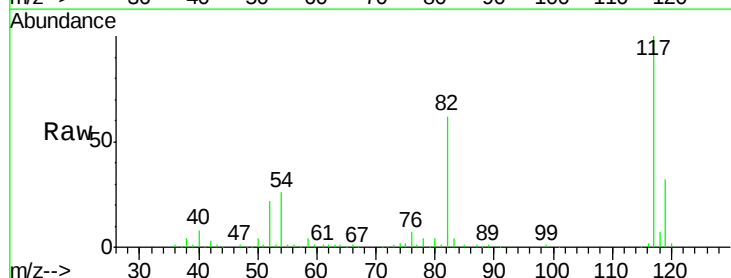
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#14

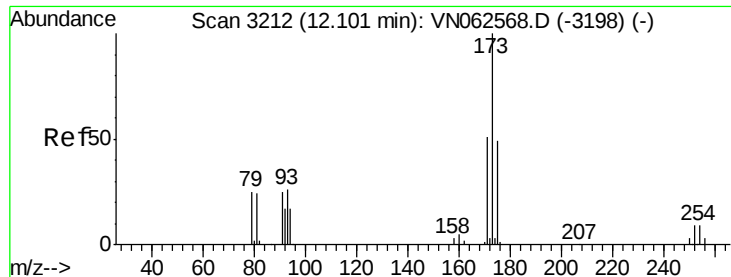
Tot Ion: 95 Resp: 149176
Ion Ratio Lower Upper
95 100
174 73.9 0.0 144.6
176 71.2 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Tgt Ion: 117 Resp: 318217
Ion Ratio Lower Upper
117 100
82 62.0 49.0 73.6
119 32.3 25.4 38.2





#71

Bromoform

Concen: 0.497 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#14

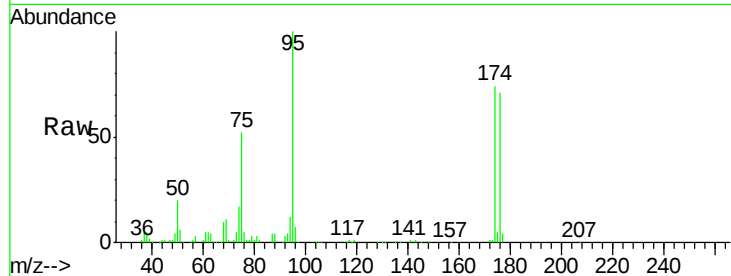
Tot Ion:173 Resp: 936

Ion Ratio Lower Upper

173 100

175 748.2 24.1 72.2#

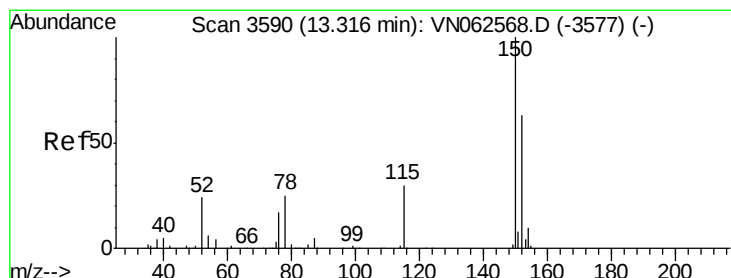
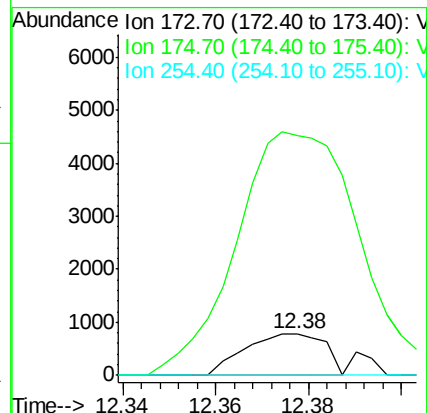
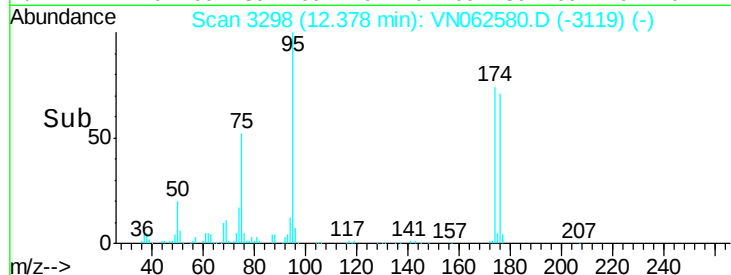
254 0.0 0.0 0.0



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: VN062580.D

Acq: 21 Jul 2020 18:52

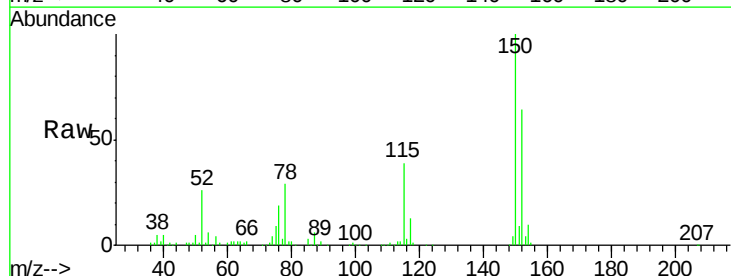
Tgt Ion:152 Resp: 114130

Ion Ratio Lower Upper

152 100

115 63.4 31.8 95.4

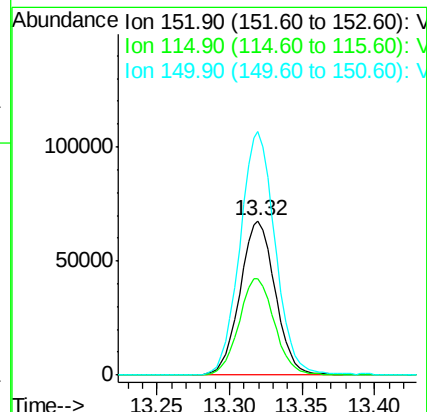
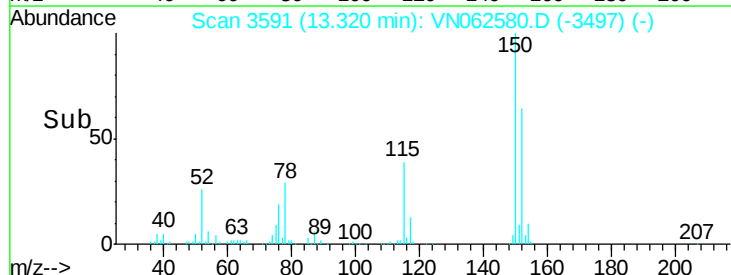
150 158.1 0.0 351.4

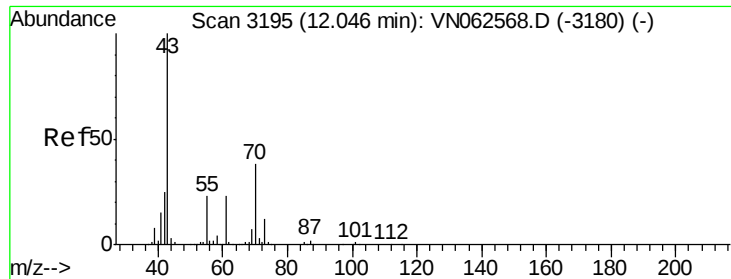


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

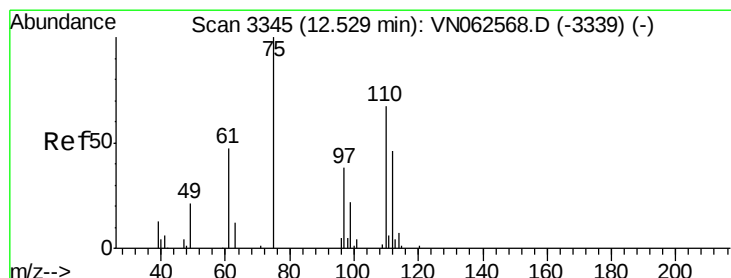
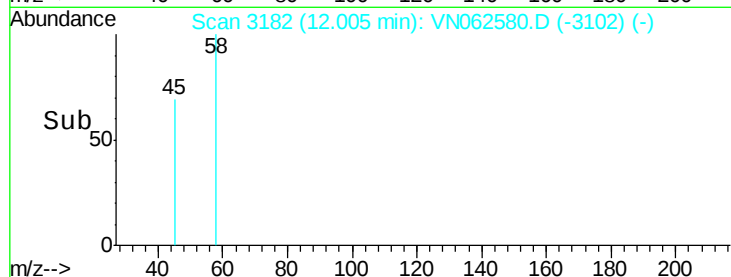
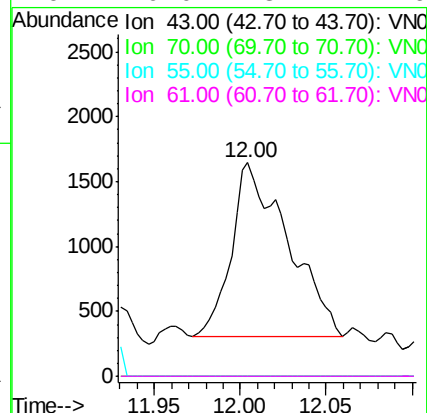
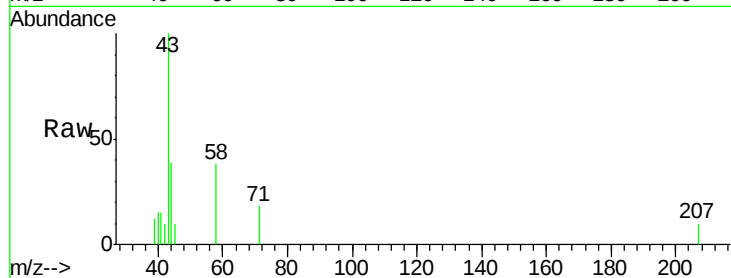




#74
N-amvl acetate
Concen: 0.764 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

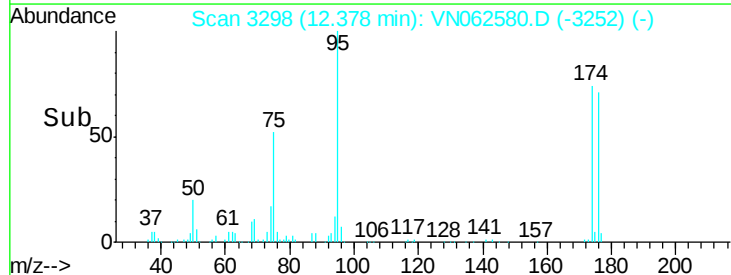
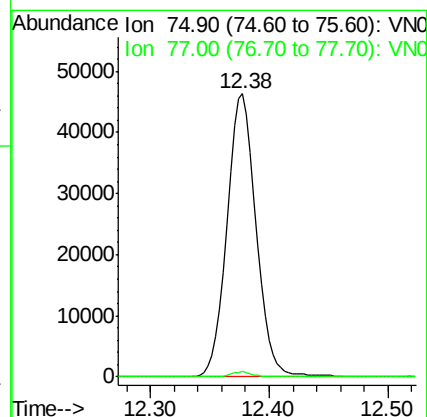
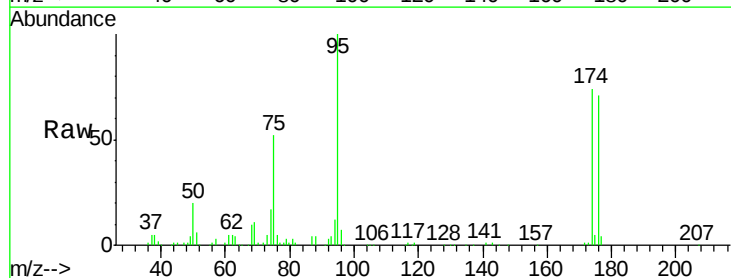
Instrument :
MSVOA_N
ClientSampleId :
PB130329ZHE#14

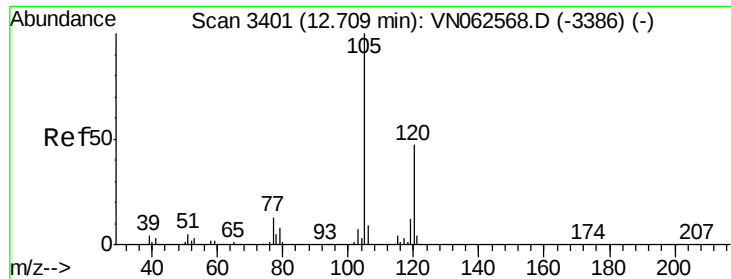
Tot Ion: 43 Resp: 3081
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 19.0 28.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 27.034 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062580.D
Acq: 21 Jul 2020 18:52

Tgt Ion: 75 Resp: 78535
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.373 ug/l

RT: 12.71 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

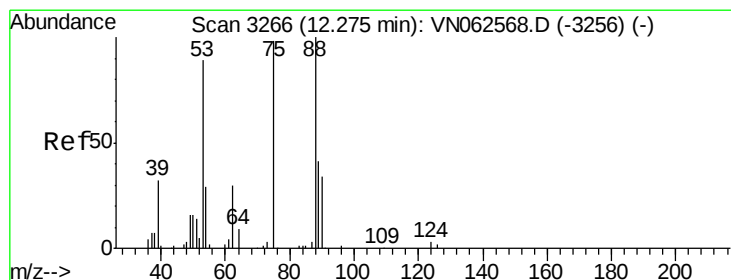
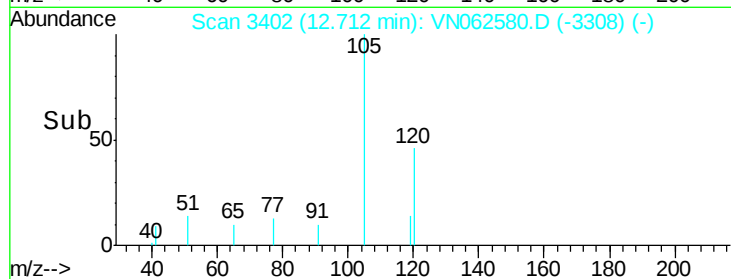
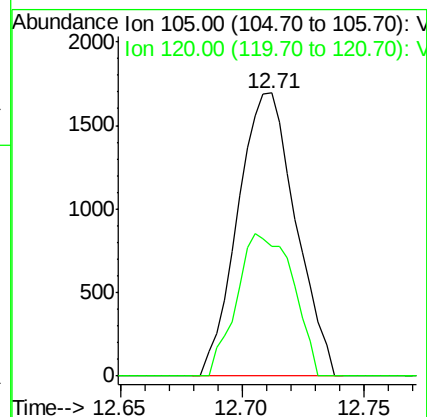
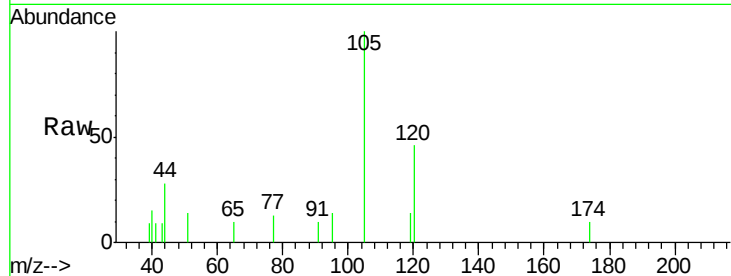
PB130329ZHE#14

Tot Ion:105 Resp: 2789

Ion Ratio Lower Upper

105 100

120 48.9 23.2 69.6



#81

trans-1,4-Dichloro-2-butene

Concen: 75.257 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

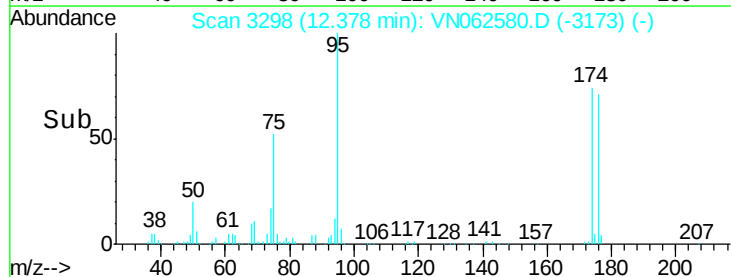
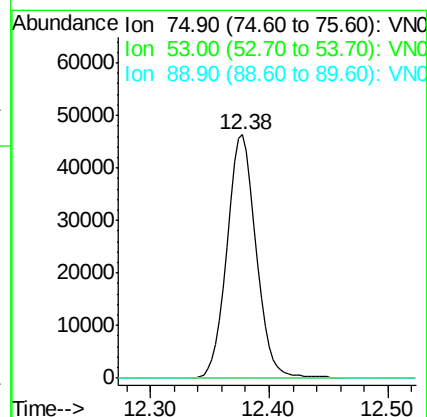
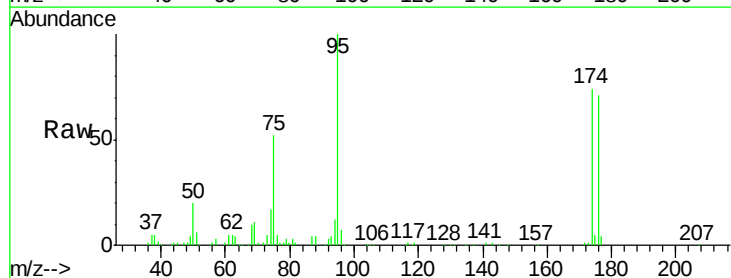
Tgt Ion: 75 Resp: 78535

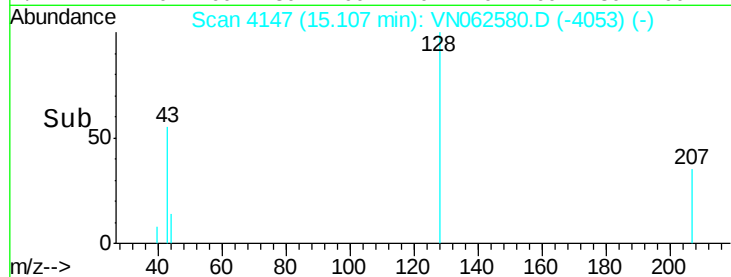
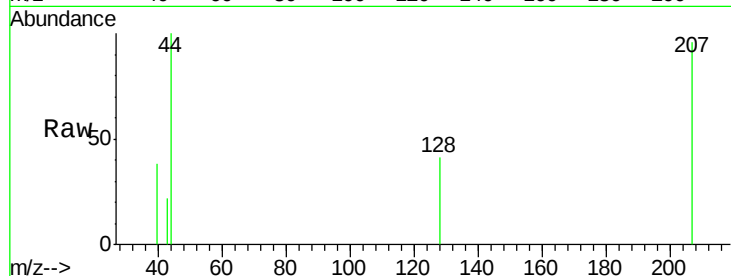
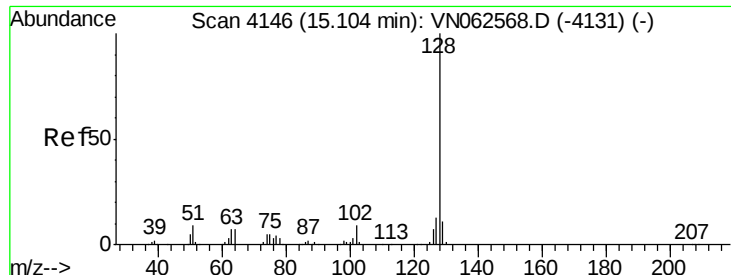
Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 3.802 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062580.D

Acq: 21 Jul 2020 18:52

Instrument :

MSVOA_N

ClientSampleId :

PB130329ZHE#14

Tot Ion:128 Resp: 223

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

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

