

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072120\
 Data File : VN062579.D
 Acq On : 21 Jul 2020 18:28
 Operator : JC/MD
 Sample : PB130329TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130329TB

Quant Time: Jul 22 05:06:19 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	186667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	329598	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	329906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	121938	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	144174	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	7.55	113	105526	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	10.06	98	437035	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.38	95	157634	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	

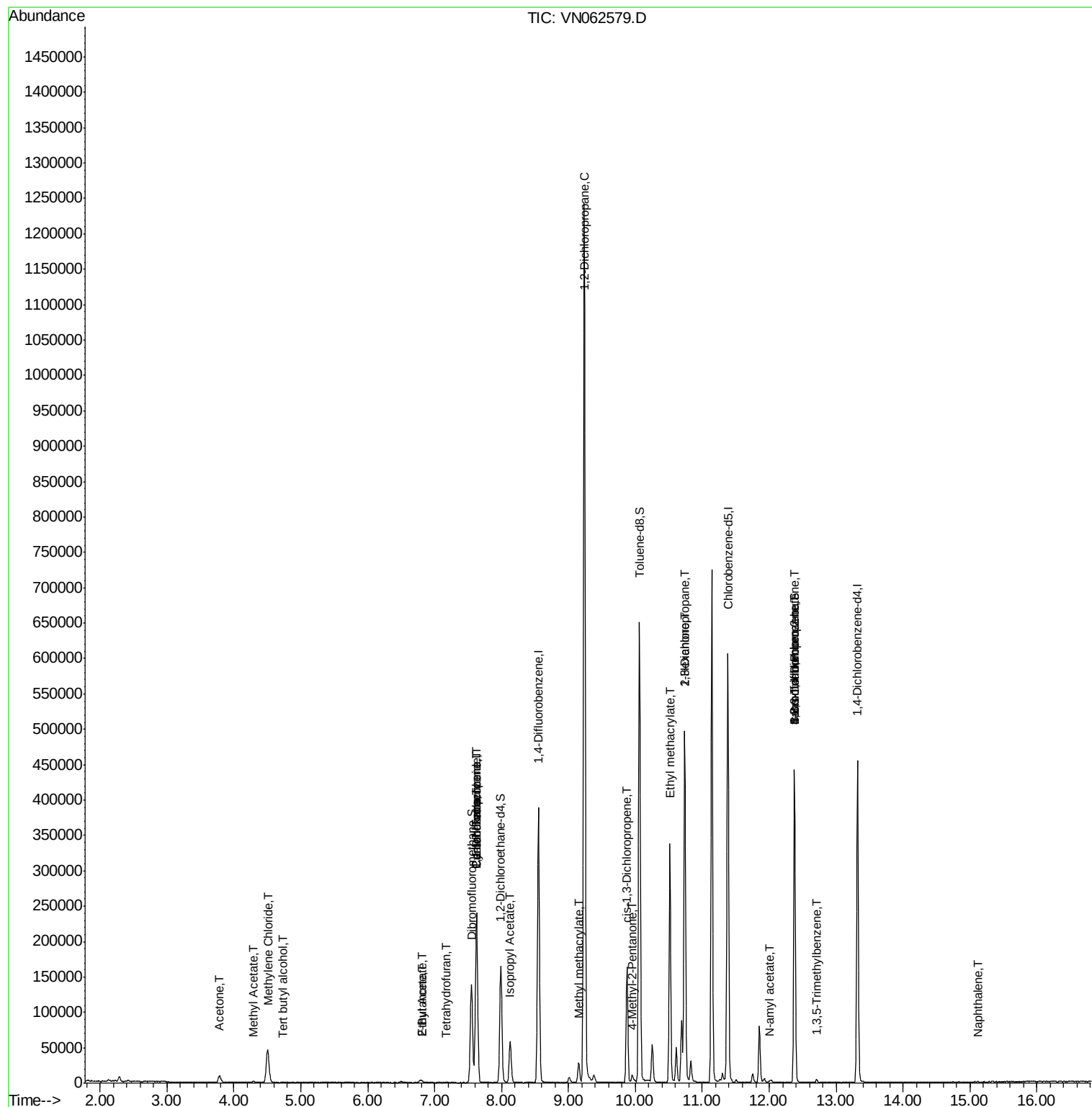
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	387	0.839	ug/l #	73
16) Acetone	3.78	43	18050	16.541	ug/l	100
18) Methyl Acetate	4.28	43	2855	1.033	ug/l #	71
20) Methylene Chloride	4.51	84	33411	12.766	ug/l	97
25) 2-Butanone	6.80	43	6245	3.758	ug/l	99
29) Tetrahydrofuran	7.18	42	346	0.308	ug/l #	53
31) Cyclohexane	7.63	56	4191	0.981	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16575	4.718	ug/l #	50
37) Ethyl Acetate	6.80	43	6245	1.649	ug/l #	69
38) Carbon Tetrachloride	7.63	117	18986	5.622	ug/l #	17
43) Isopropyl Acetate	8.13	43	70161	11.493	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1406	0.471	ug/l #	44
48) Methyl methacrylate	9.15	41	4164	1.435	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7356	2.014	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	27729	6.208	ug/l #	65
56) Ethyl methacrylate	10.52	69	1340	2.069	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5217	1.189	ug/l #	42
59) 2-Hexanone	10.74	43	78011	30.247	ug/l #	55
71) Bromoform	12.38	173	706	0.361	ug/l #	1
74) N-amyl acetate	12.01	43	4324	1.004	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	84050	27.080	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2641	0.330	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	84050	75.385	ug/l #	12
95) Naphthalene	15.12	128	444	3.837	ug/l #	69

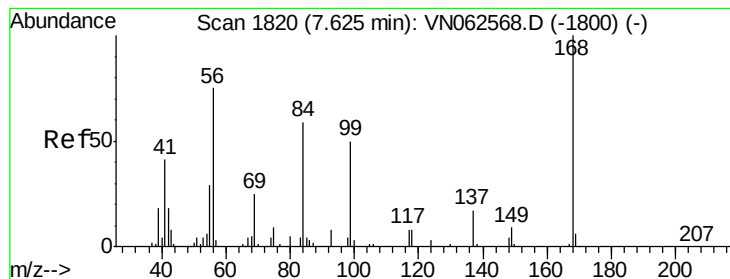
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 2020
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: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

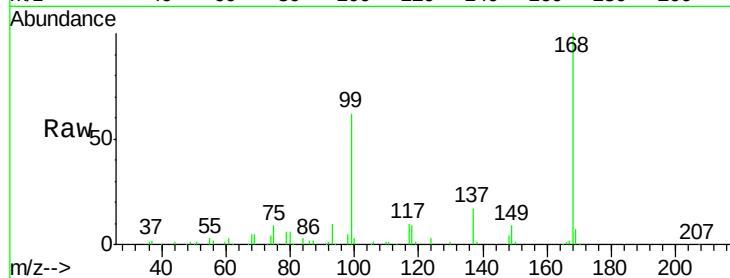
PB130329TB

Tot Ion:168 Resp: 186667

Ion Ratio Lower Upper

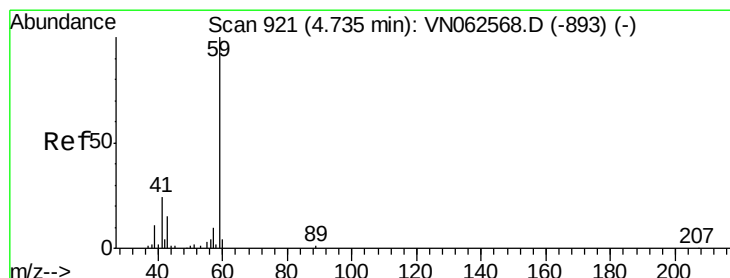
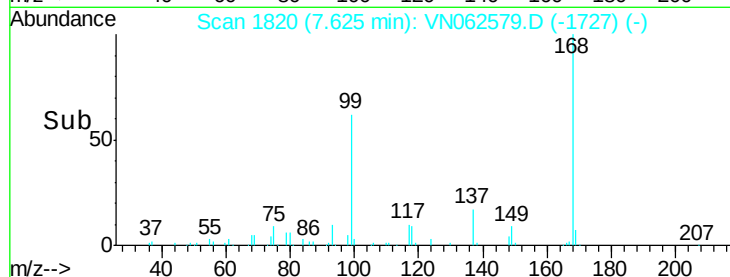
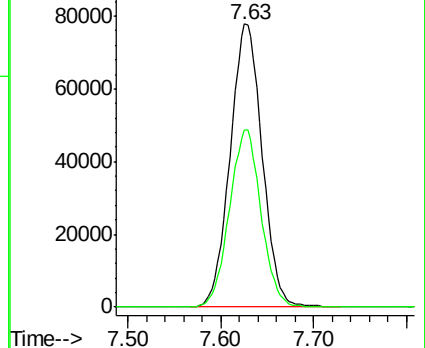
168 100

99 62.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.839 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN062579.D

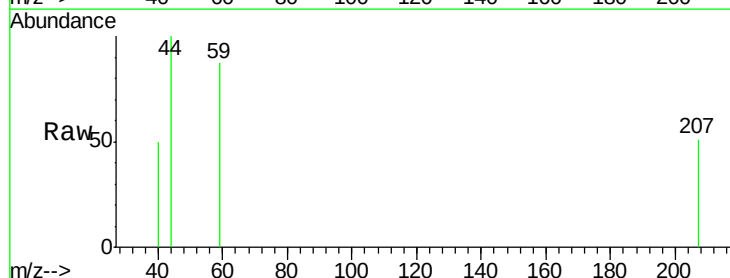
Acq: 21 Jul 2020 18:28

Tgt Ion: 59 Resp: 387

Ion Ratio Lower Upper

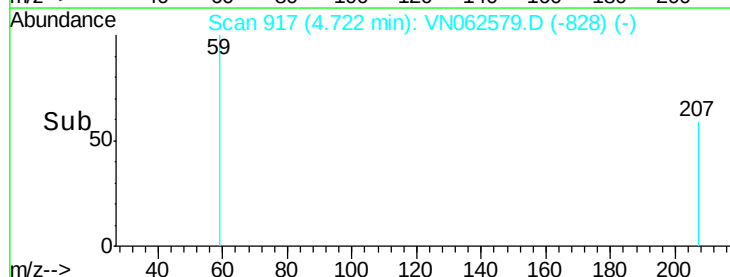
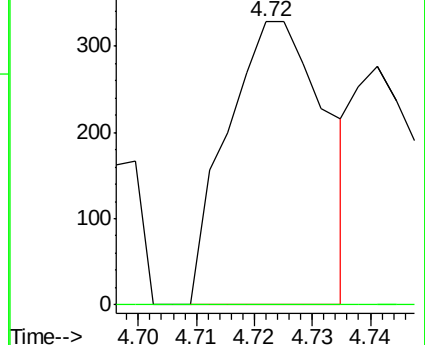
59 100

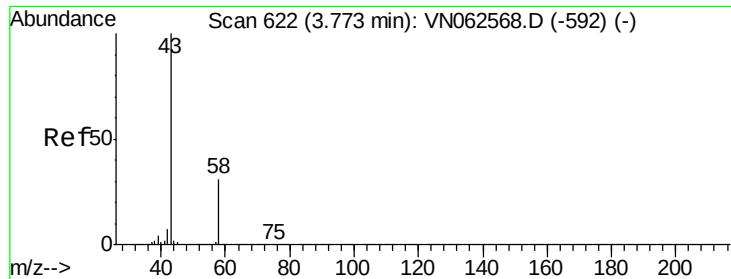
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

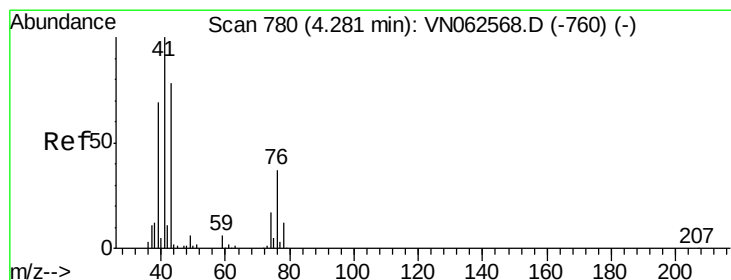
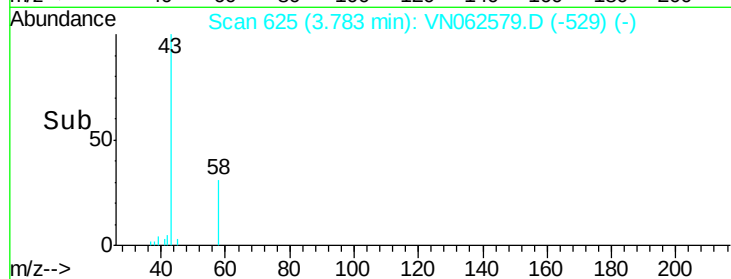
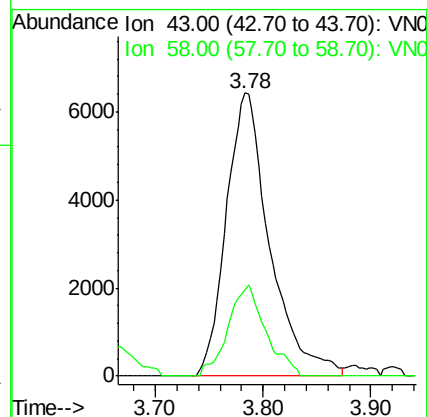
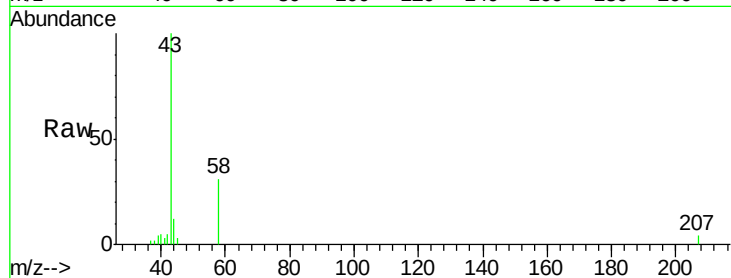




#16
Acetone
Concen: 16.541 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

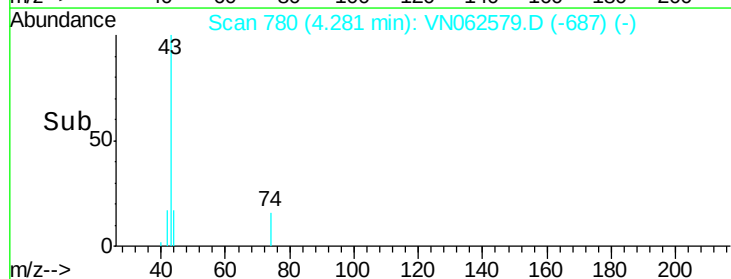
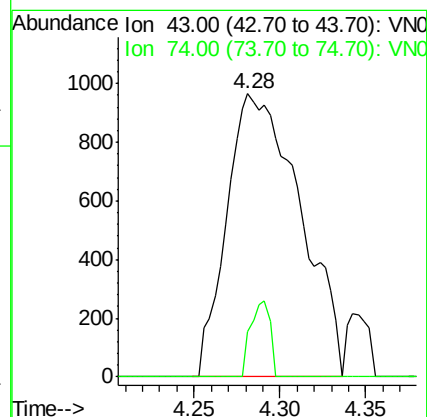
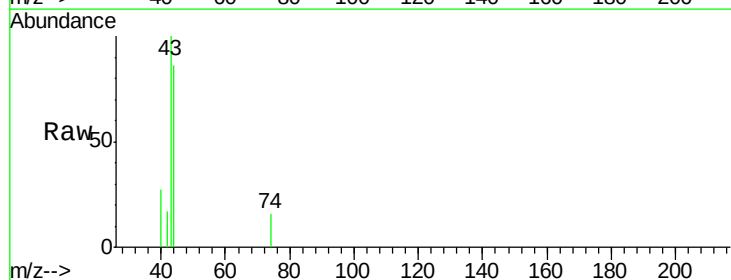
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PB130329TB

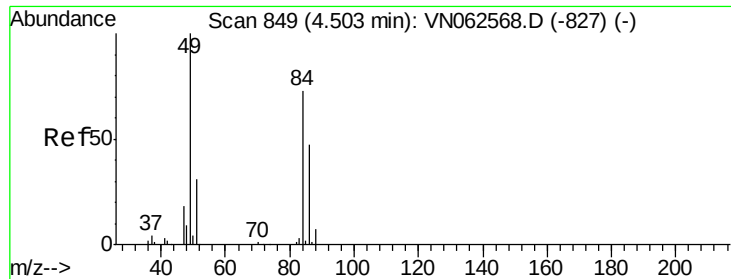
Tot Ion: 43 Resp: 18050
Ion Ratio Lower Upper
43 100
58 30.6 24.6 37.0



#18
Methyl Acetate
Concen: 1.033 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

Tgt Ion: 43 Resp: 2855
Ion Ratio Lower Upper
43 100
74 7.0 16.6 24.8#

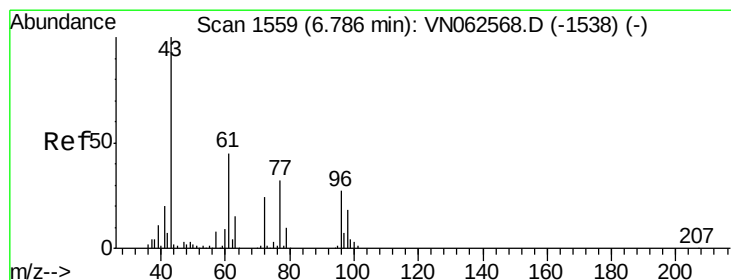
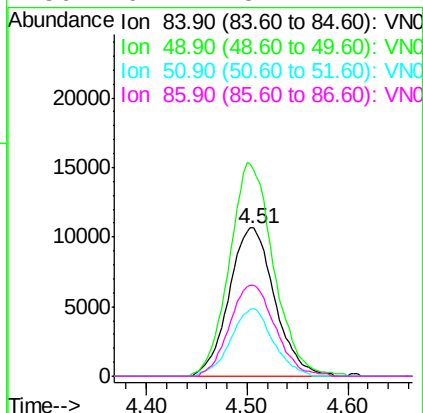
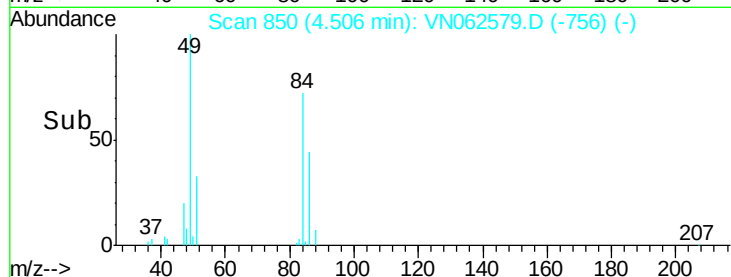
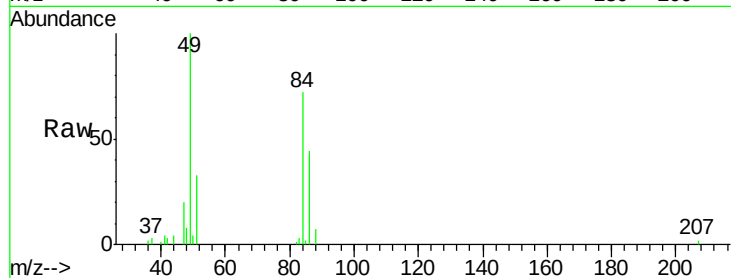




#20
Methvlene Chloride
Concen: 12.766 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

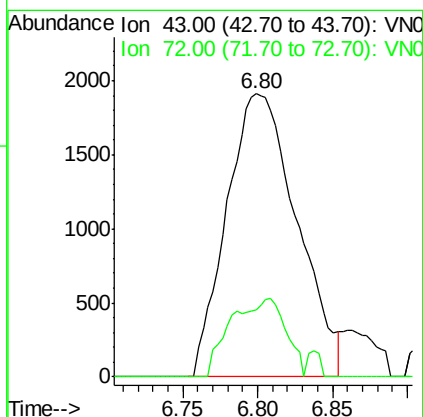
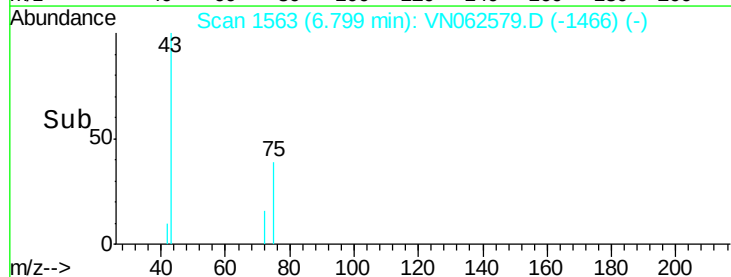
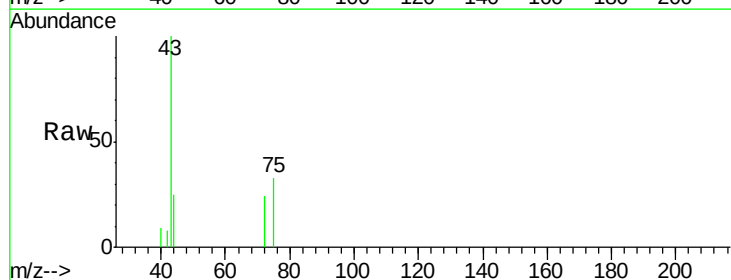
Instrument :
MSVOA_N
ClientSampled :
PB130329TB

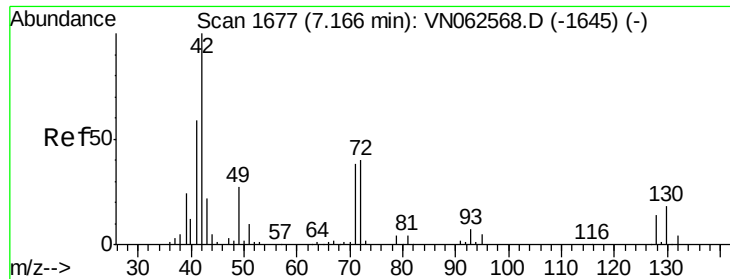
Tot Ion: 84 Resp: 33411
Ion Ratio Lower Upper
84 100
49 139.2 109.4 164.0
51 45.5 33.6 50.4
86 61.2 51.4 77.2



#25
2-Butanone
Concen: 3.758 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

Tgt Ion: 43 Resp: 6245
Ion Ratio Lower Upper
43 100
72 23.5 19.0 28.6





#29

Tetrahydrofuran

Concen: 0.308 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampled :

PB130329TB

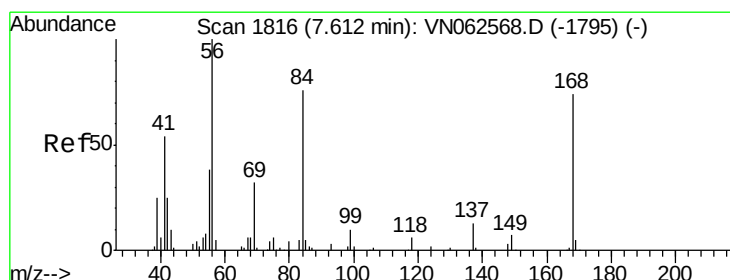
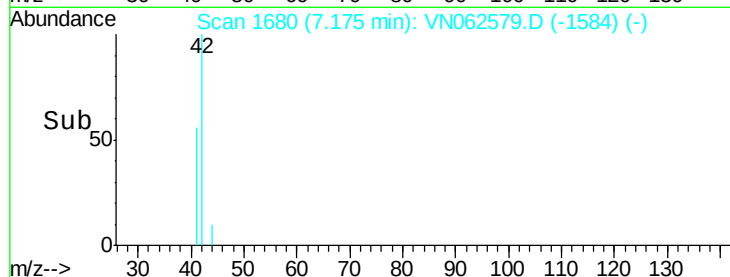
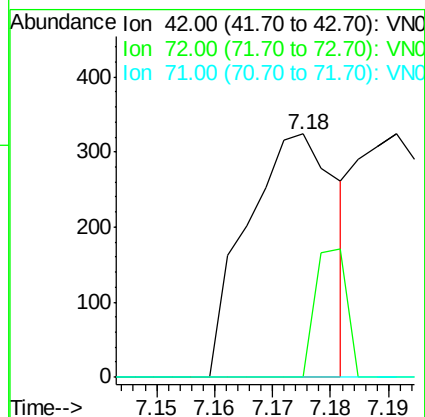
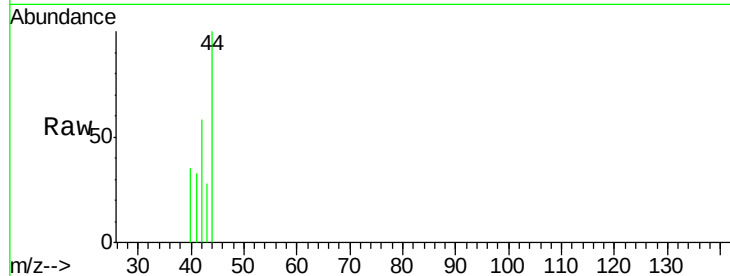
Tot Ion: 42 Resp: 346

Ion Ratio Lower Upper

42 100

72 18.8 30.7 46.1#

71 0.0 29.1 43.7#



#31

Cyclohexane

Concen: 0.981 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

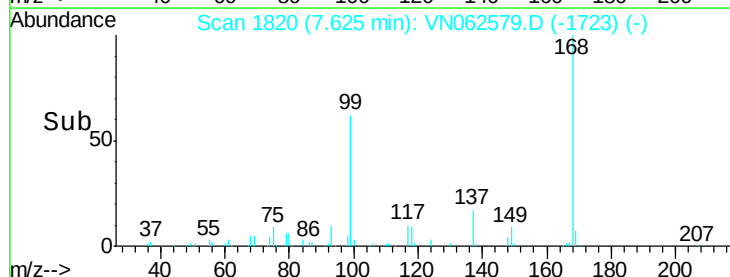
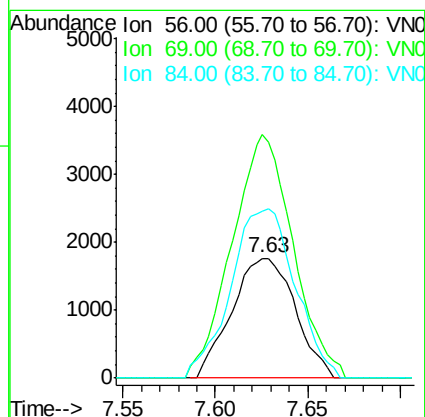
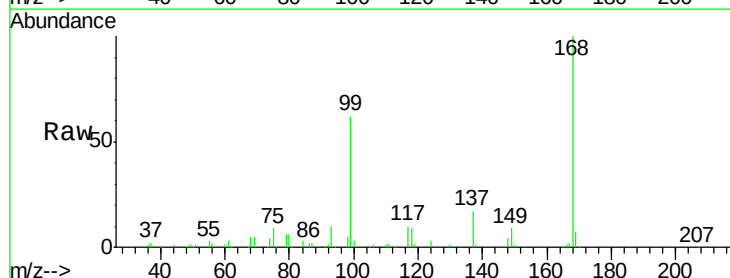
Tgt Ion: 56 Resp: 4191

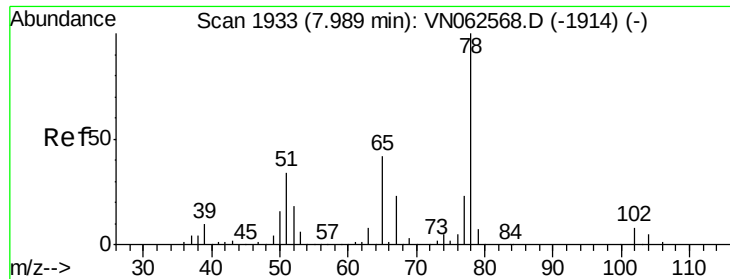
Ion Ratio Lower Upper

56 100

69 192.5 25.3 37.9#

84 139.1 61.0 91.4#

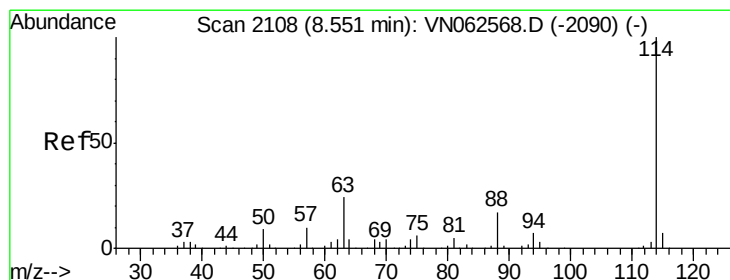
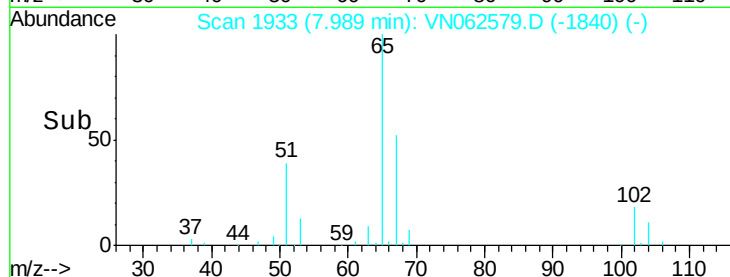
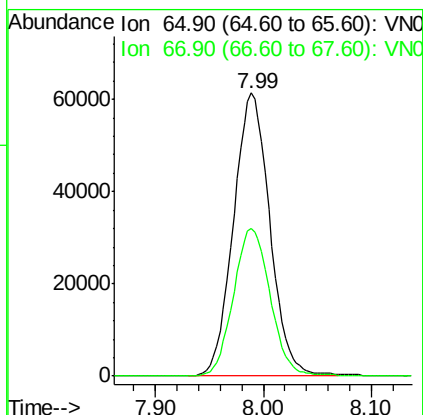
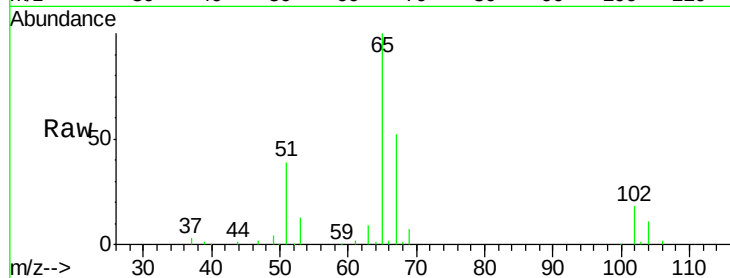




#33
 1,2-Dichloroethane-d4
 Concen: 49.719 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062579.D
 Acq: 21 Jul 2020 18:28

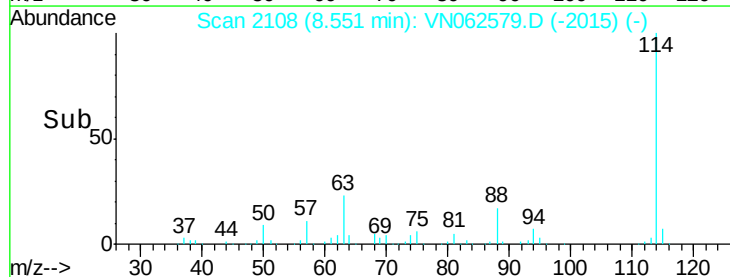
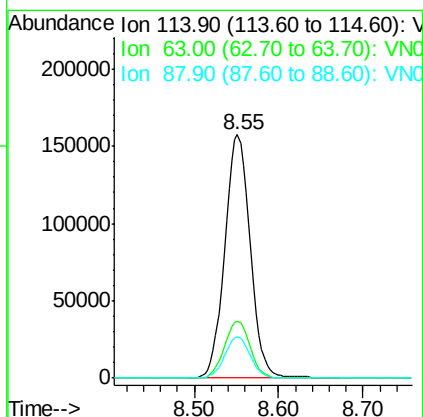
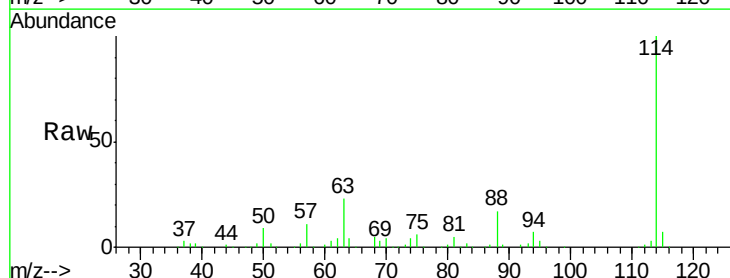
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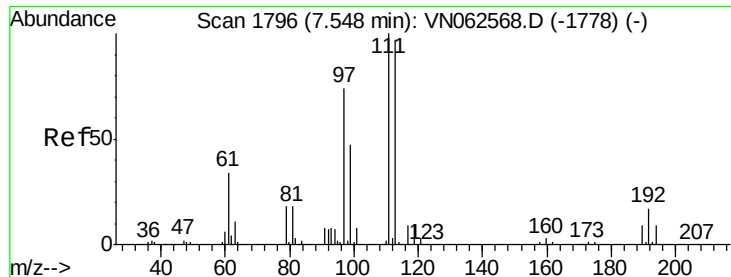
Tot Ion: 65 Resp: 144174
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062579.D
 Acq: 21 Jul 2020 18:28

Tgt Ion: 114 Resp: 329598
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 48.4
 88 16.8 0.0 33.8

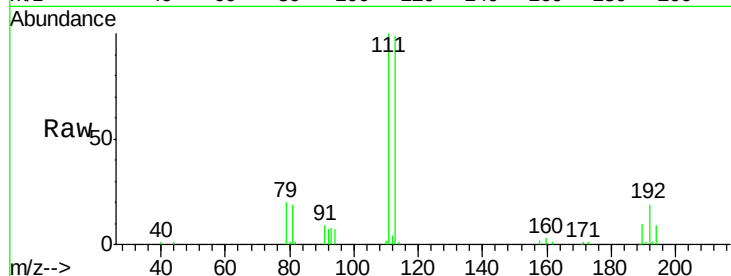




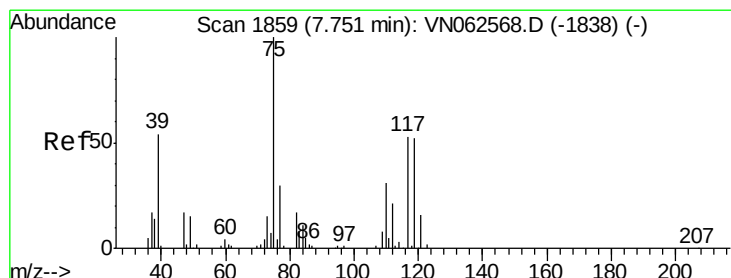
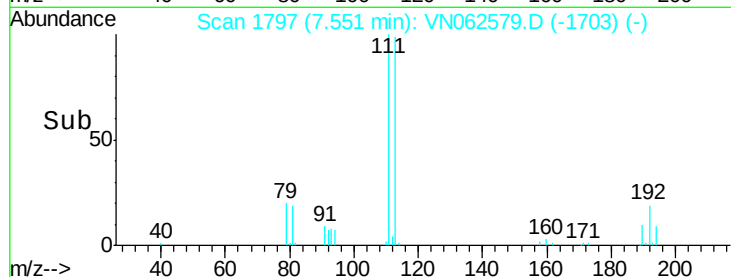
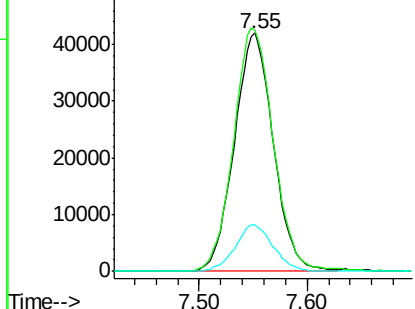
#35
 Dibromofluoromethane
 Concen: 48.742 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062579.D
 Acq: 21 Jul 2020 18:28

Instrument :
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 PB130329TB

Tot Ion:113 Resp: 105526
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.7 124.1
 192 19.0 14.8 22.2

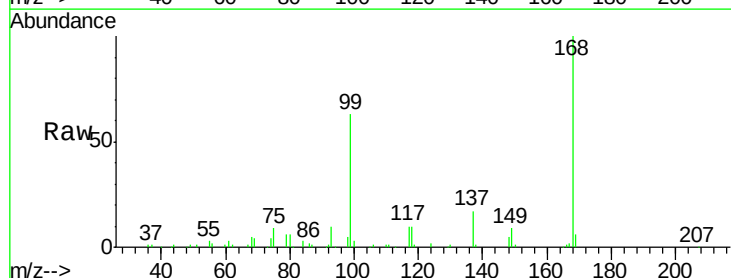


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

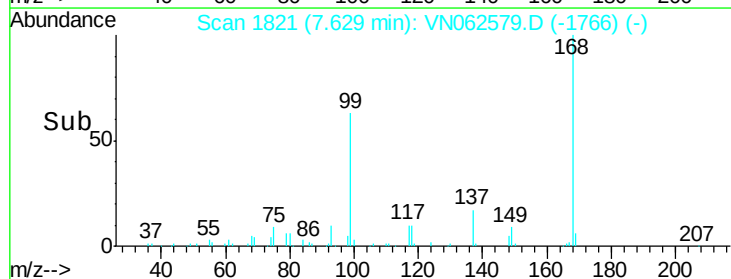
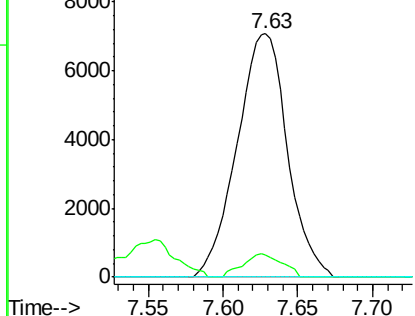


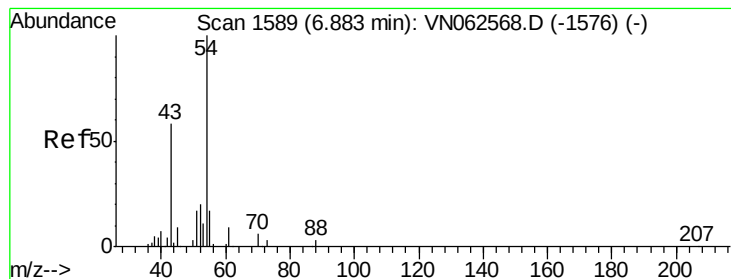
#36
 1,1-Dichloropropene
 Concen: 4.718 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062579.D
 Acq: 21 Jul 2020 18:28

Tgt Ion: 75 Resp: 16575
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.0 48.0#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 1.649 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.08 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

PB130329TB

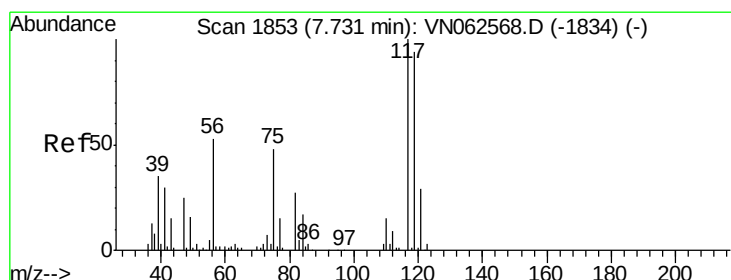
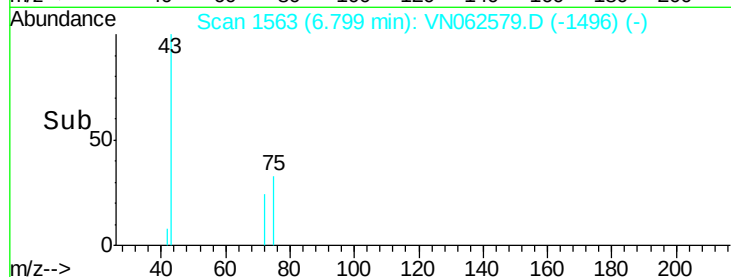
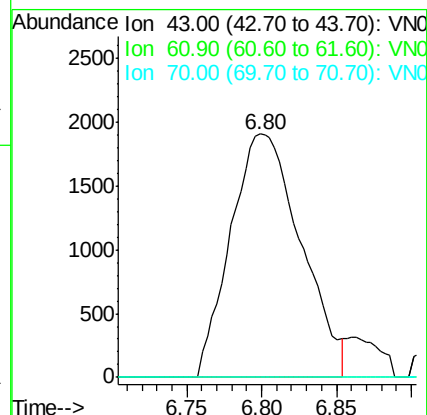
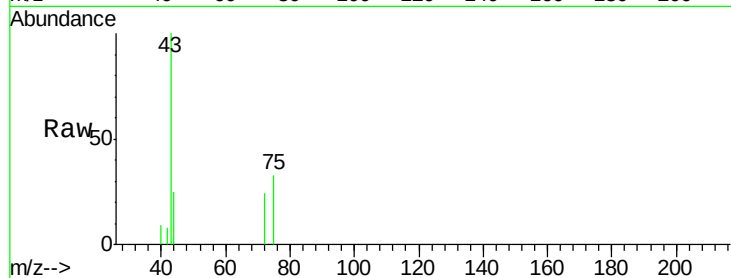
Tot Ion: 43 Resp: 6245

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 5.622 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.10 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

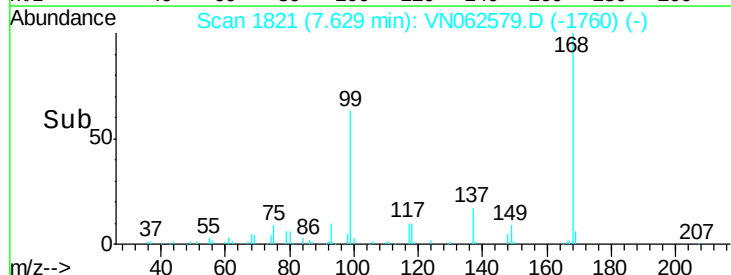
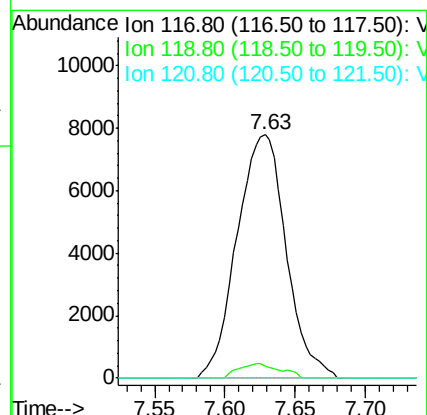
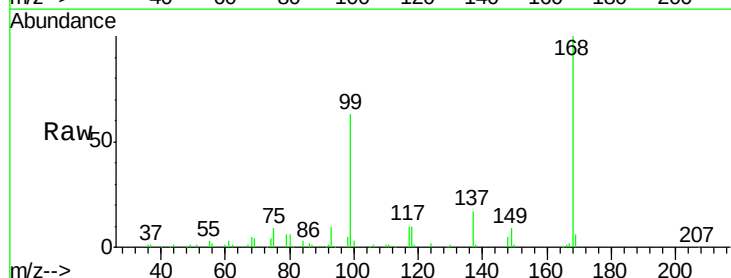
Tgt Ion: 117 Resp: 18986

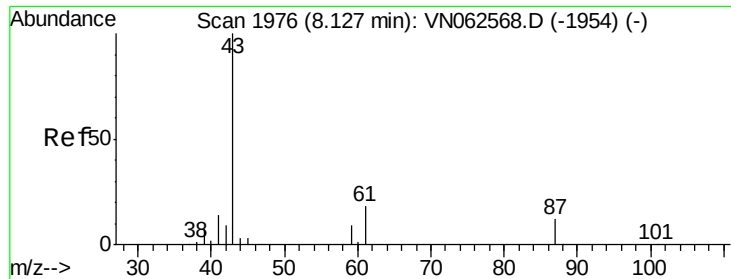
Ion Ratio Lower Upper

117 100

119 5.0 74.8 112.2#

121 0.0 23.0 34.6#





#43

Isopropyl Acetate

Concen: 11.493 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

PB130329TB

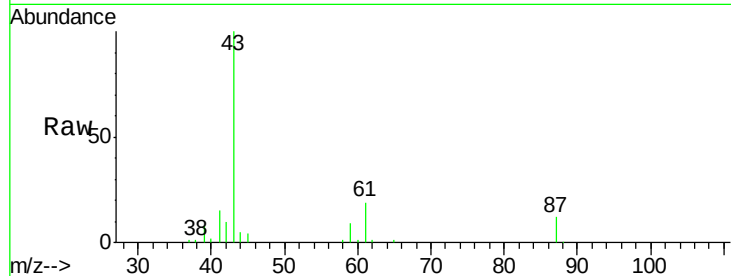
Tot Ion: 43 Resp: 70161

Ion Ratio Lower Upper

43 100

61 19.0 20.8 31.2#

87 11.2 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062568.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062568.D (-1954) (-)

8.13

40000

30000

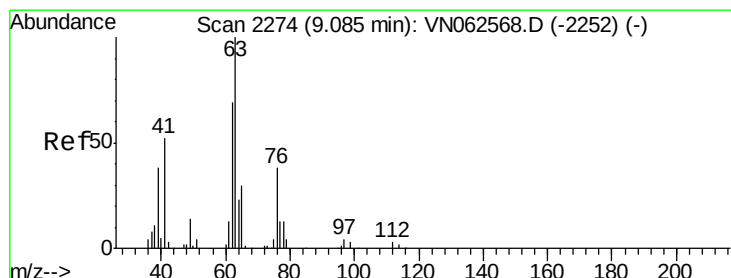
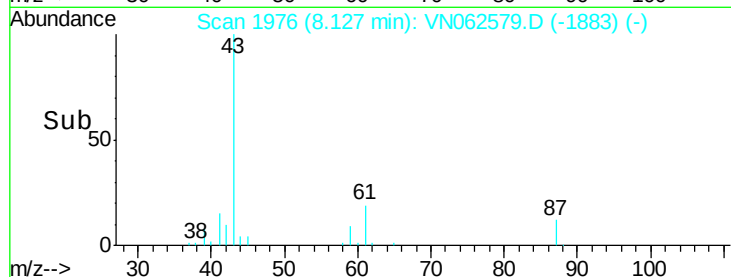
20000

10000

0

8.05 8.10 8.15 8.20

Time-->



#45

1,2-Dichloropropane

Concen: 0.471 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062579.D

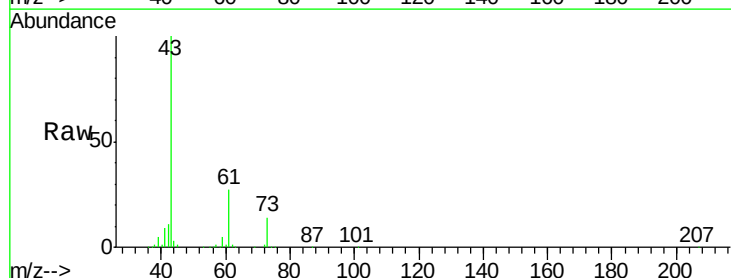
Acq: 21 Jul 2020 18:28

Tgt Ion: 63 Resp: 1406

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062568.D (-2252) (-)

Ion 64.90 (64.60 to 65.60): VN062568.D (-2252) (-)

9.24

1000

800

600

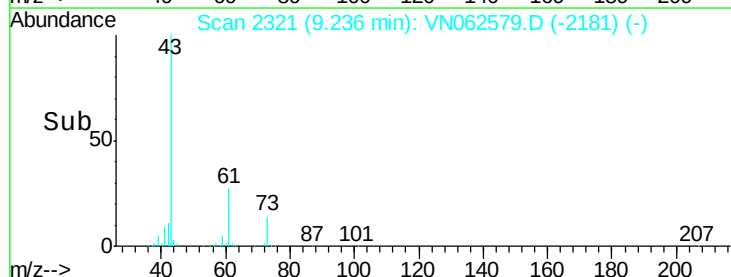
400

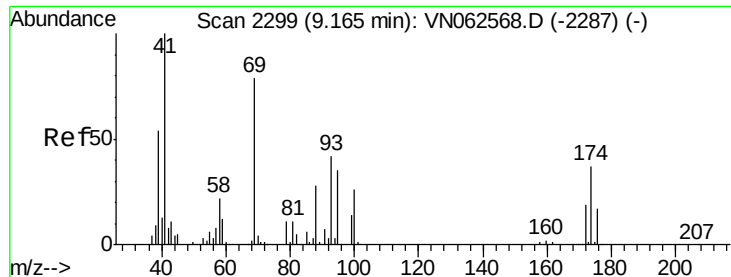
200

0

9.20 9.25

Time-->

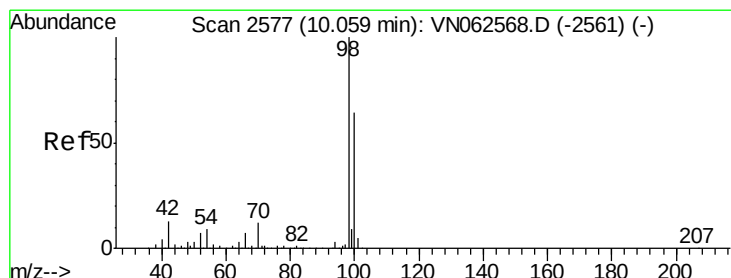
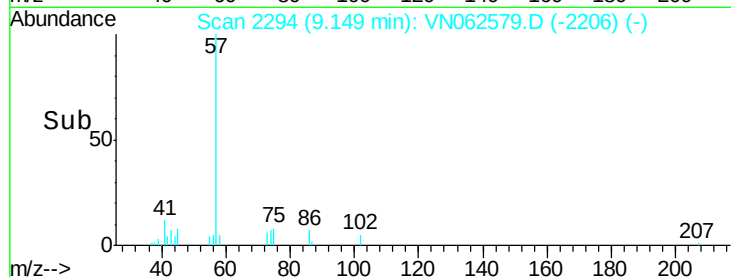
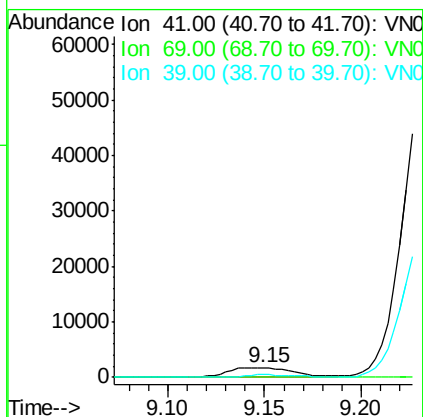
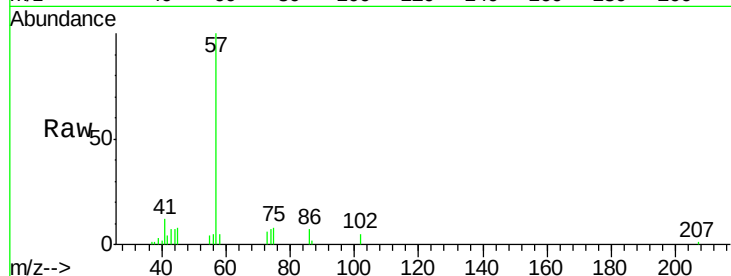




#48
Methvl methacrylate
Concen: 1.435 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

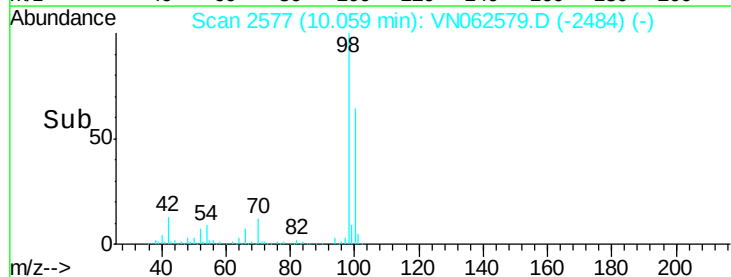
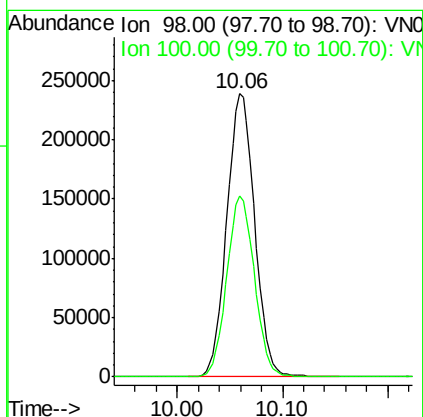
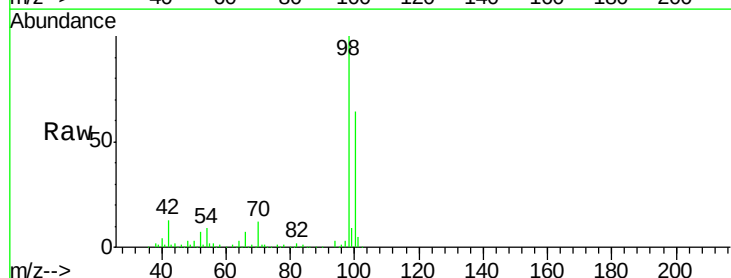
Instrument :
MSVOA_N
ClientSampleId :
PB130329TB

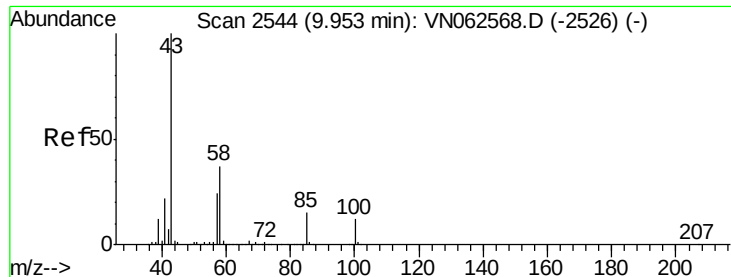
Tot Ion: 41 Resp: 4164
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 50.594 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

Tgt Ion: 98 Resp: 437035
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3

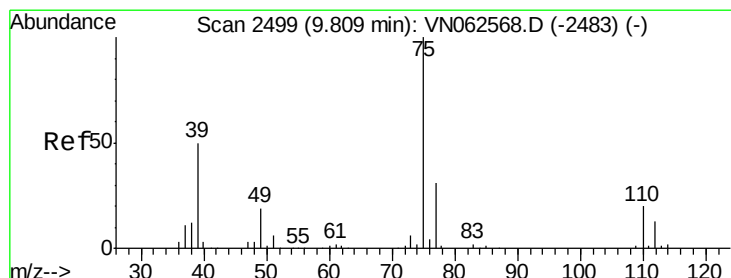
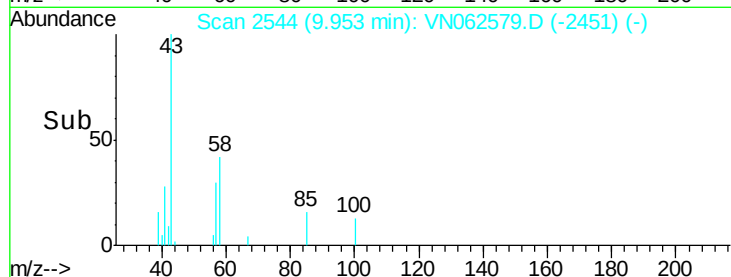
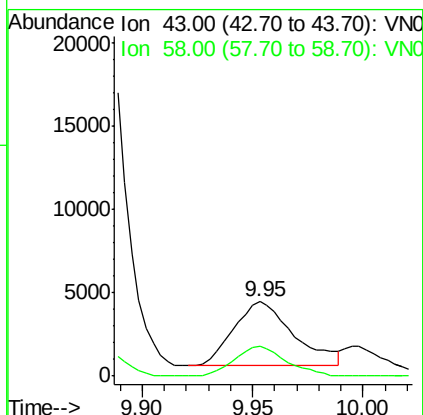
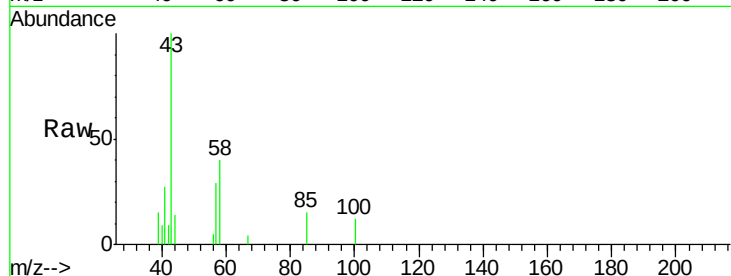




#51
4-Methyl-2-Pentanone
Concen: 2.014 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

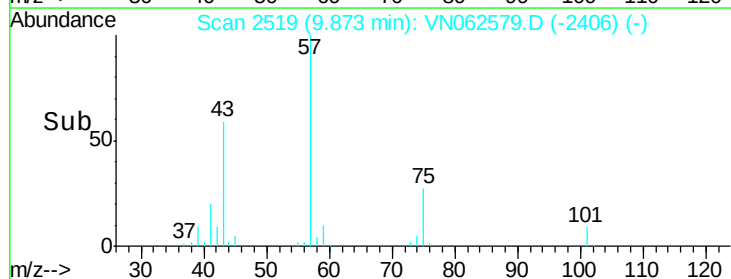
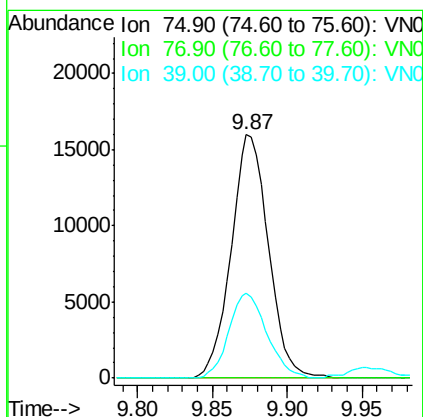
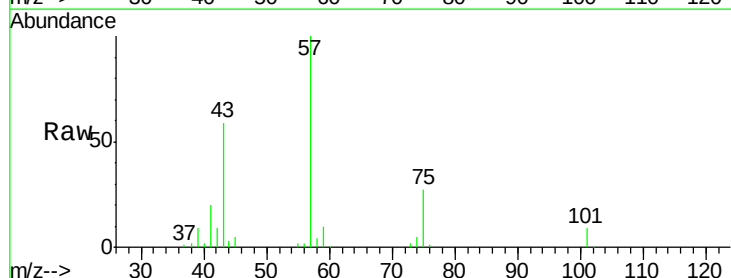
Instrument :
MSVOA_N
ClientSampled :
PB130329TB

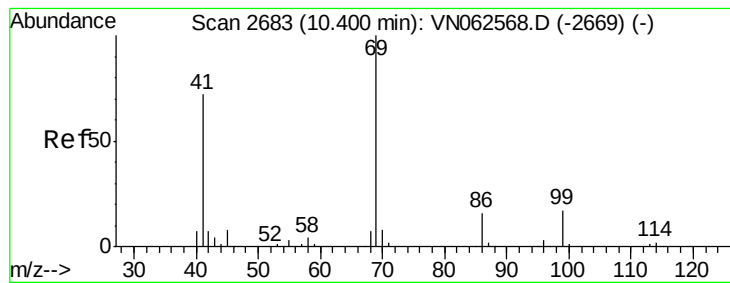
Tot Ion: 43 Resp: 7356
Ion Ratio Lower Upper
43 100
58 39.8 29.8 44.6



#54
cis-1,3-Dichloropropene
Concen: 6.208 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

Tgt Ion: 75 Resp: 27729
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 35.0 39.8 59.8#





#56

Ethyl methacrylate

Concen: 2.069 ug/l

RT: 10.52 min Scan# 2721

Delta R.T. 0.12 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

PB130329TB

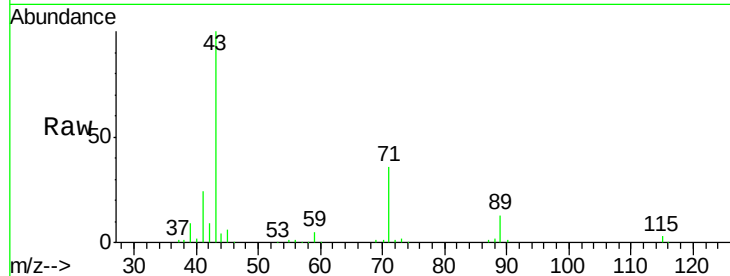
Tot Ion: 69 Resp: 1340

Ion Ratio Lower Upper

69 100

41 4600.2 57.2 85.8#

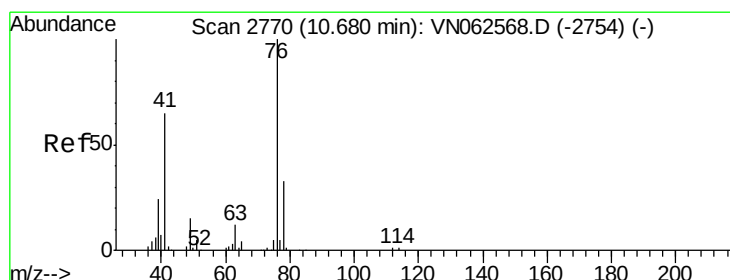
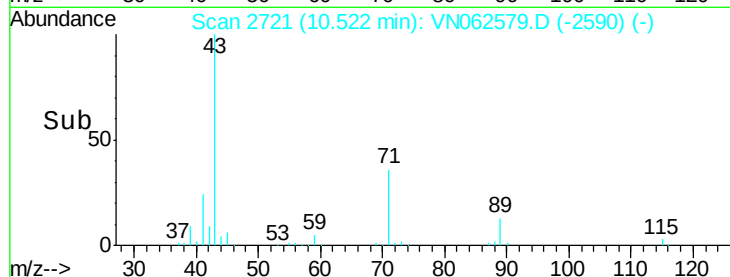
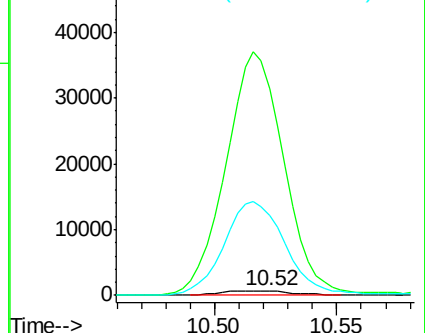
39 1885.1 28.6 43.0#



Abundance Ion 69.00 (68.70 to 69.70): VN062568.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062568.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062568.D (-2669) (-)



#57

1,3-Dichloropropane

Concen: 1.189 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062579.D

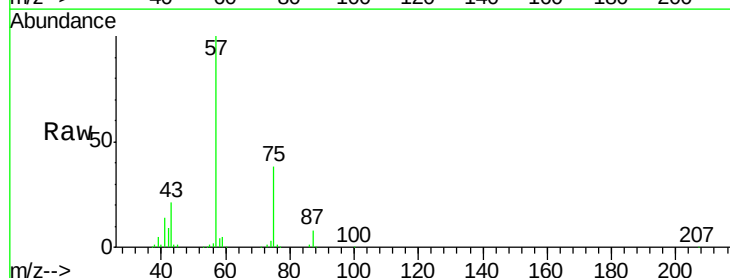
Acq: 21 Jul 2020 18:28

Tgt Ion: 76 Resp: 5217

Ion Ratio Lower Upper

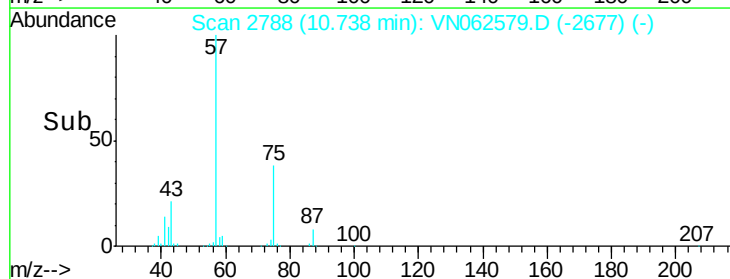
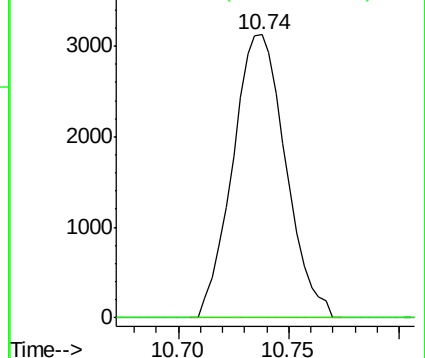
76 100

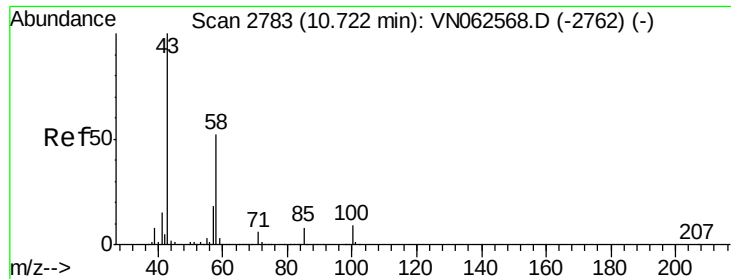
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062568.D (-2754) (-)

Ion 77.90 (77.60 to 78.60): VN062568.D (-2754) (-)





#59

2-Hexanone

Concen: 30.247 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampled :

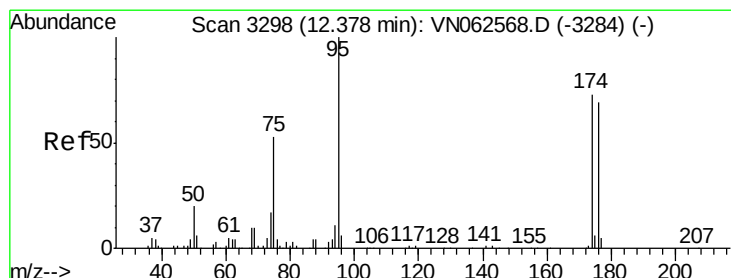
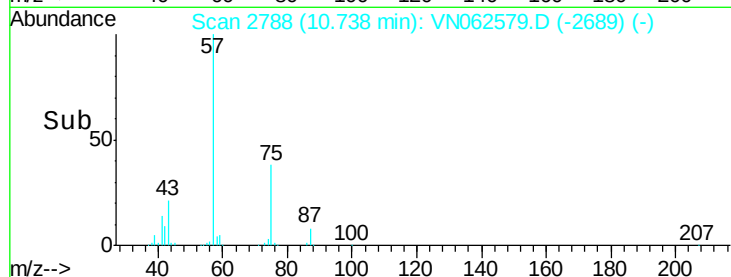
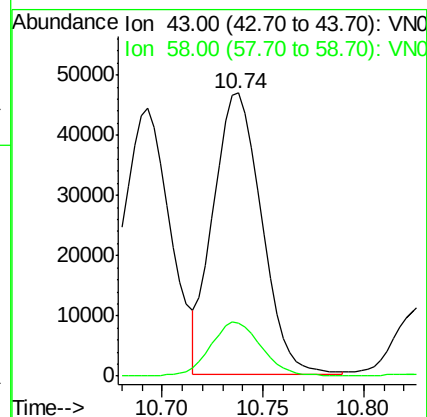
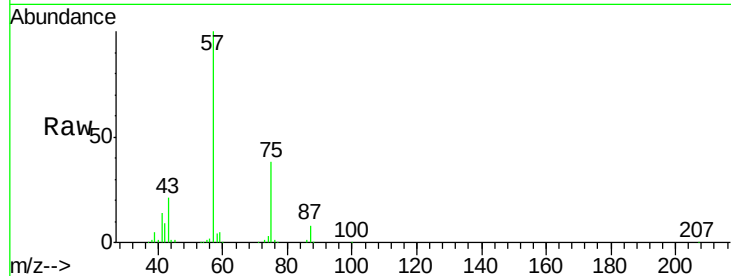
PB130329TB

Tot Ion: 43 Resp: 78011

Ion Ratio Lower Upper

43 100

58 20.1 26.0 78.0#



#62

4-Bromofluorobenzene

Concen: 49.908 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

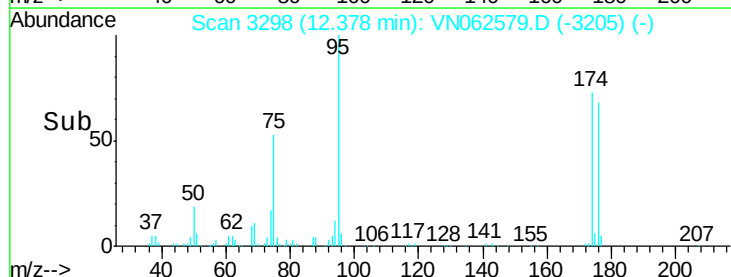
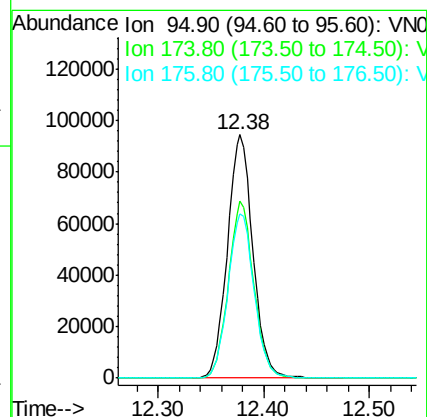
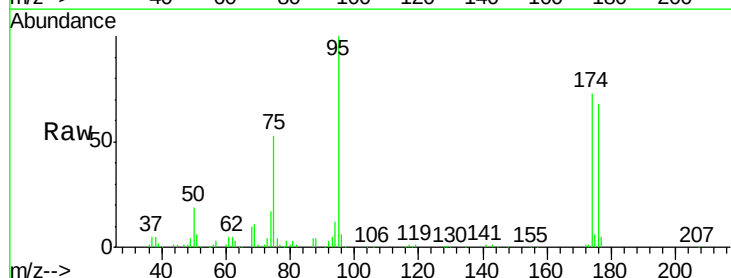
Tgt Ion: 95 Resp: 157634

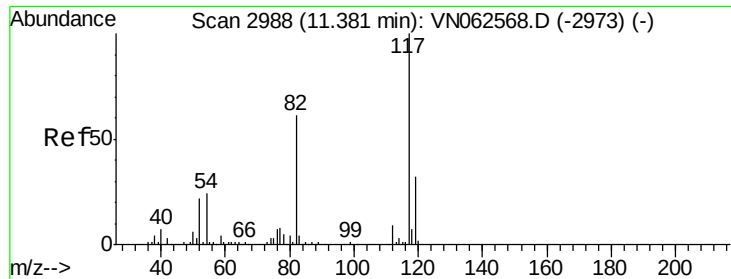
Ion Ratio Lower Upper

95 100

174 72.1 0.0 144.6

176 69.1 0.0 139.4

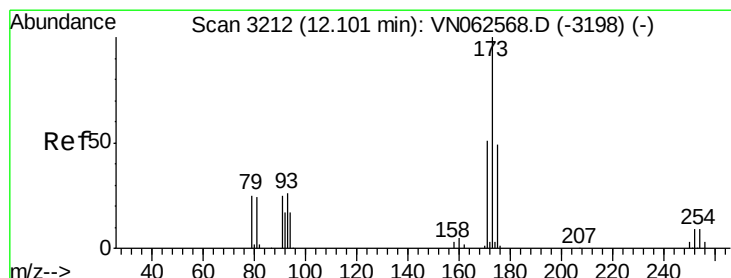
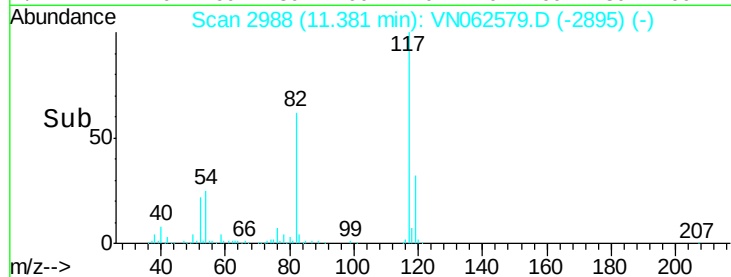
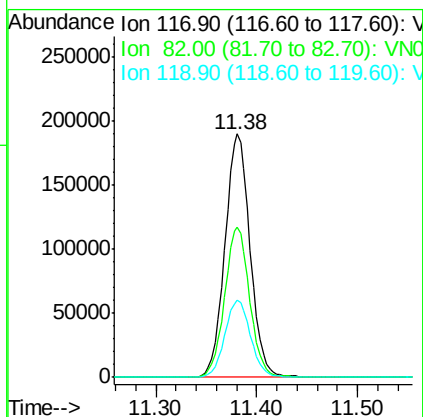
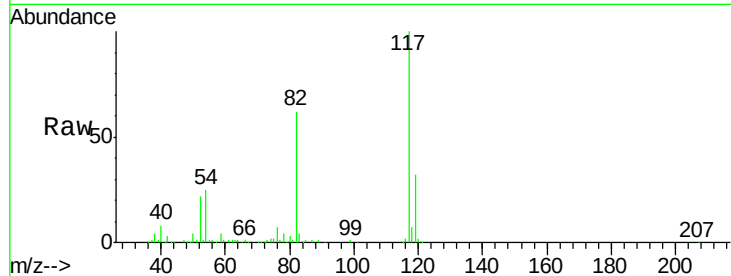




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

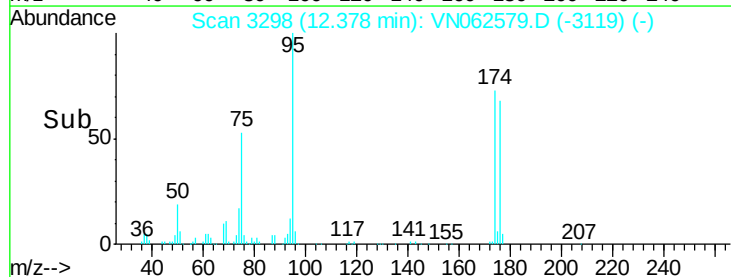
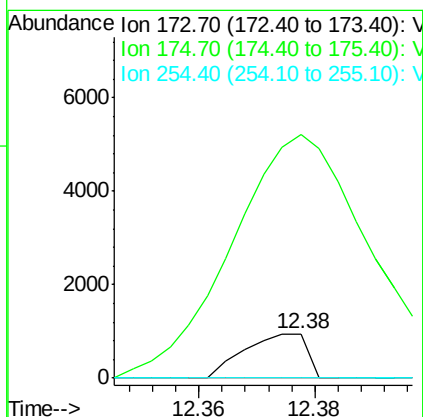
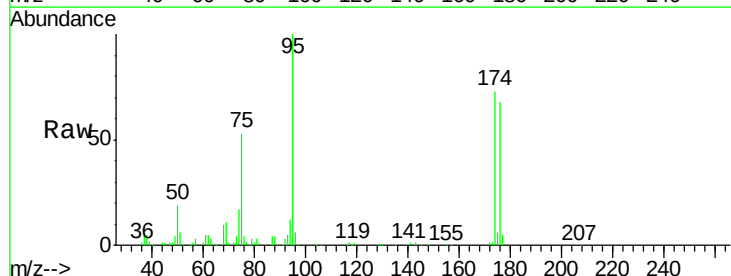
Instrument :
MSVOA_N
ClientSampleId :
PB130329TB

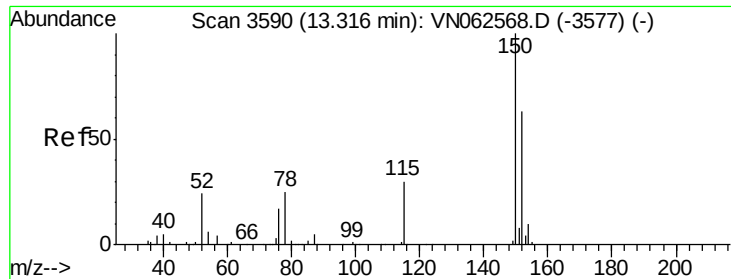
Tot Ion:117 Resp: 329906
Ion Ratio Lower Upper
117 100
82 61.7 49.0 73.6
119 31.7 25.4 38.2



#71
Bromoform
Concen: 0.361 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062579.D
Acq: 21 Jul 2020 18:28

Tgt Ion:173 Resp: 706
Ion Ratio Lower Upper
173 100
175 1016.6 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampled :

PB130329TB

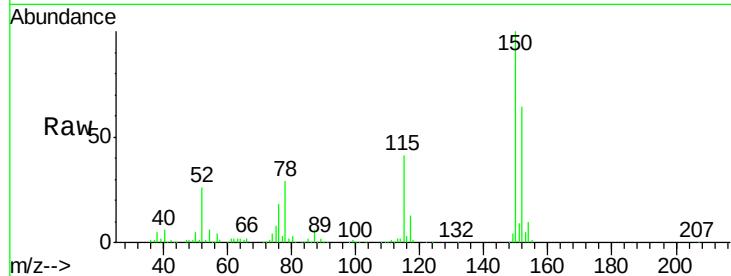
Tot Ion:152 Resp: 121938

Ion Ratio Lower Upper

152 100

115 60.9 31.8 95.4

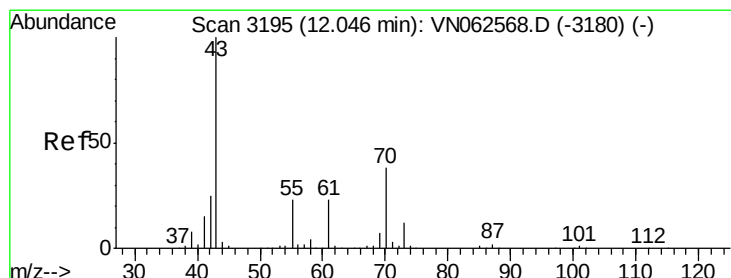
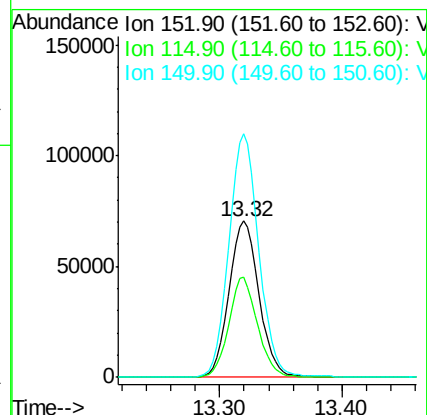
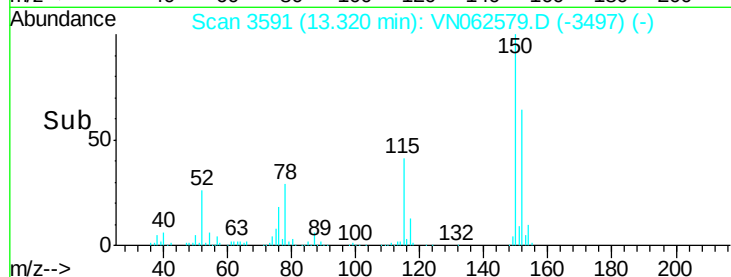
150 155.2 0.0 351.4



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-ethyl acetate

Concen: 1.004 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Tgt Ion: 43 Resp: 4324

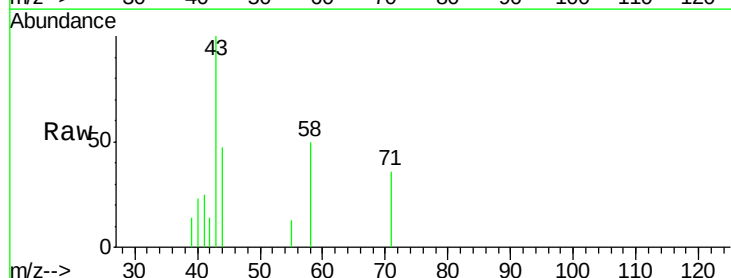
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 1.5 19.0 28.6#

61 0.0 18.4 27.6#

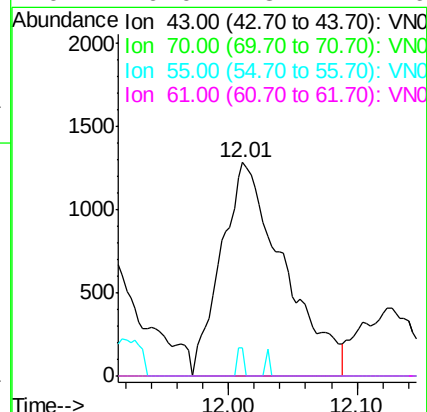
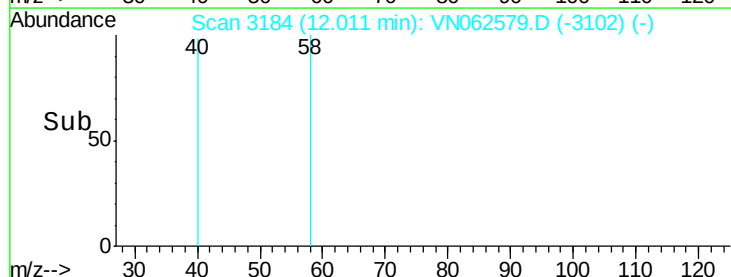


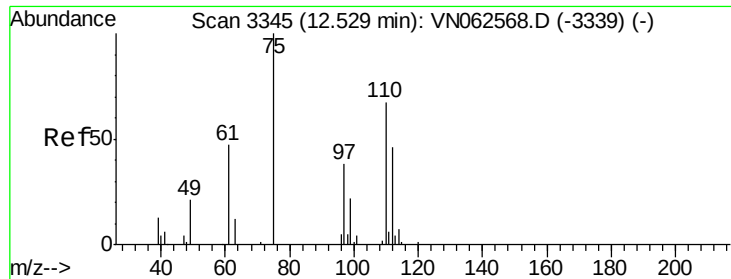
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.080 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

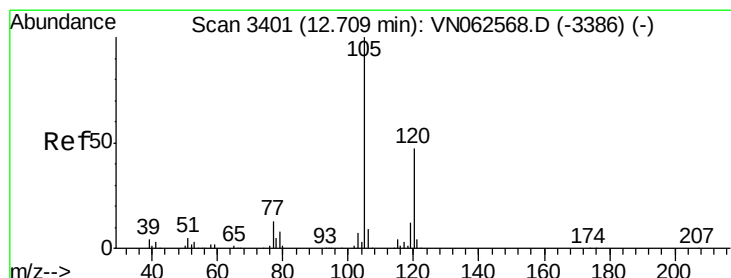
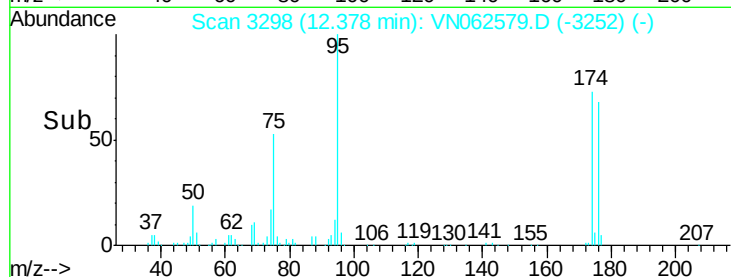
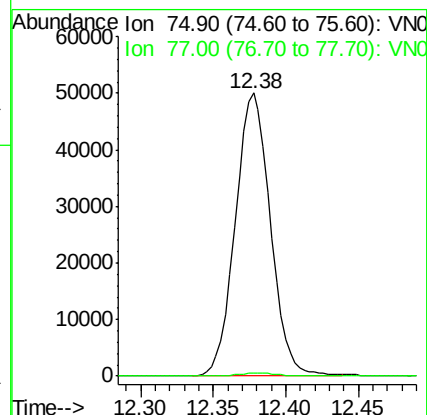
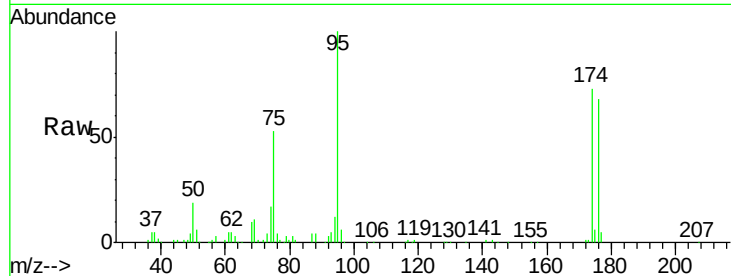
PB130329TB

Tot Ion: 75 Resp: 84050

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.330 ug/l

RT: 12.71 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN062579.D

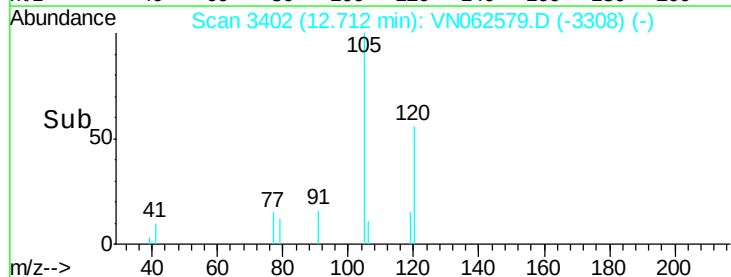
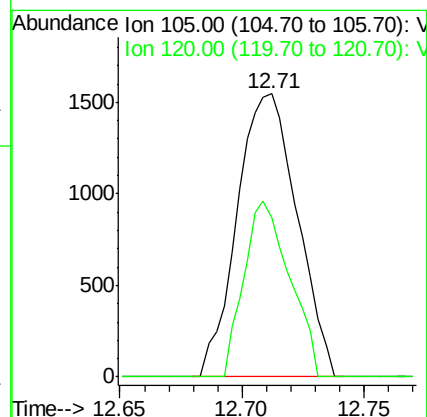
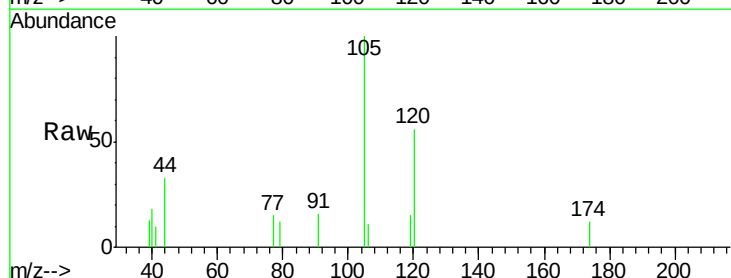
Acq: 21 Jul 2020 18:28

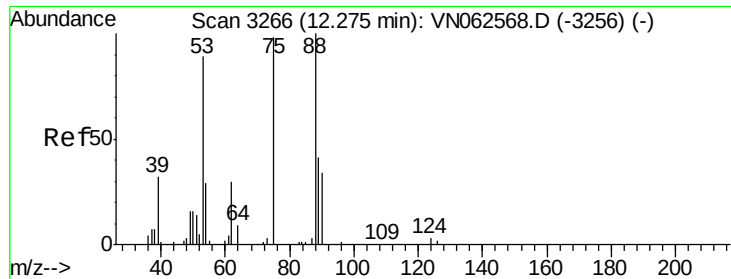
Tgt Ion: 105 Resp: 2641

Ion Ratio Lower Upper

105 100

120 47.1 23.2 69.6





#81

trans-1,4-Dichloro-2-butene

Concen: 75.385 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

PB130329TB

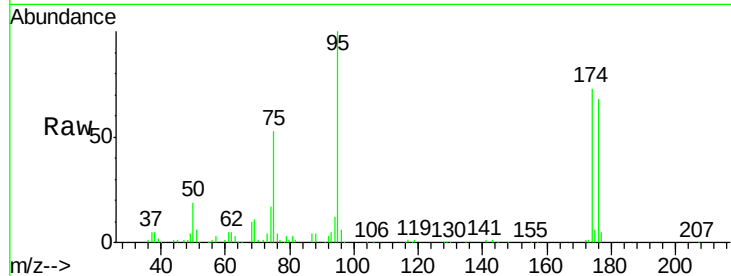
Tot Ion: 75 Resp: 84050

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

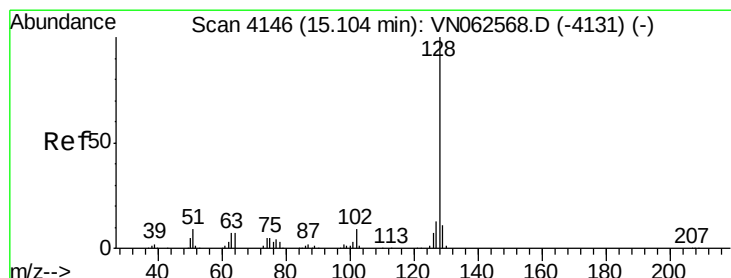
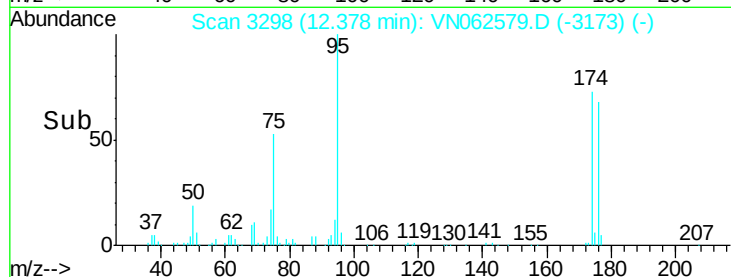
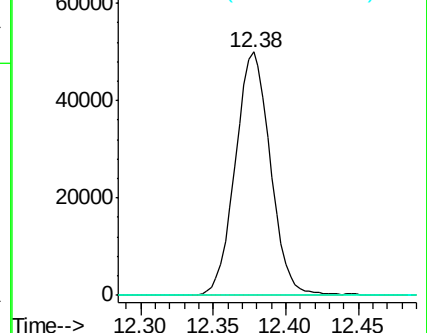
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062568.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062568.D (-3256) (-)



#95

Naphthalene

Concen: 3.837 ug/l

RT: 15.12 min Scan# 4150

Delta R.T. 0.01 min

Lab File: VN062579.D

Acq: 21 Jul 2020 18:28

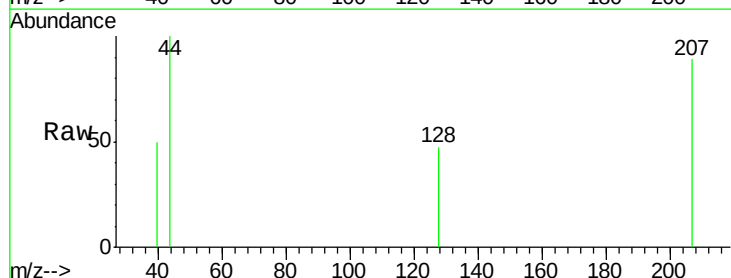
Tgt Ion: 128 Resp: 444

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): VN062568.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN062568.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN062568.D (-4131) (-)

