

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064965.D
 Acq On : 8 Dec 2020 13:25
 Operator : JC/MD
 Sample : PB133456ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#02

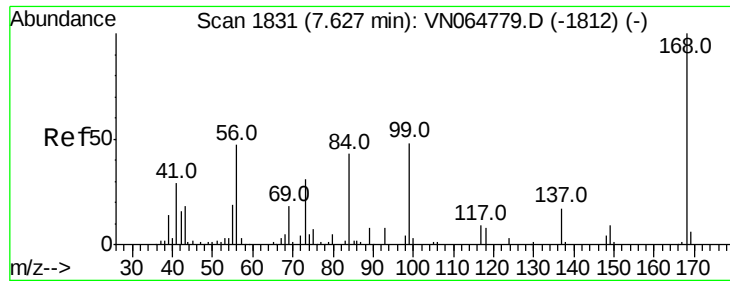
Quant Time: Dec 09 06:51:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	179240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	321980	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	348565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	147426	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	111761	53.63	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	107.26%	
35) Dibromofluoromethane		7.55	113	102491	53.20	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.40%	
50) Toluene-d8		10.06	98	417318	53.01	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	106.02%	
62) 4-Bromofluorobenzene		12.38	95	160712	57.05	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	114.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	99	0.305	ug/l #	73
16) Acetone	3.78	43	5382	7.857	ug/l #	85
20) Methylene Chloride	4.51	84	8923	4.157	ug/l	93
25) 2-Butanone	6.79	43	3589	3.232	ug/l	96
29) Tetrahydrofuran	7.17	42	440	0.574	ug/l #	32
31) Cyclohexane	7.62	56	3275	1.128	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	13385	4.485	ug/l #	45
38) Carbon Tetrachloride	7.62	117	17396	5.602	ug/l #	16
43) Isopropyl Acetate	8.13	43	16770	3.625	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1089	0.460	ug/l #	43
48) Methyl methacrylate	9.14	41	3639	1.646	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4358	1.569	ug/l #	81
52) Toluene	10.13	92	1241	0.220	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	29469	7.754	ug/l #	60
57) 1,3-Dichloropropane	10.73	76	17417	4.559	ug/l #	42
59) 2-Hexanone	10.73	43	223088	111.618	ug/l #	51
71) Bromoform	12.38	173	1076	0.490	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	76574	24.118	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2032	0.238	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	76574	66.102	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

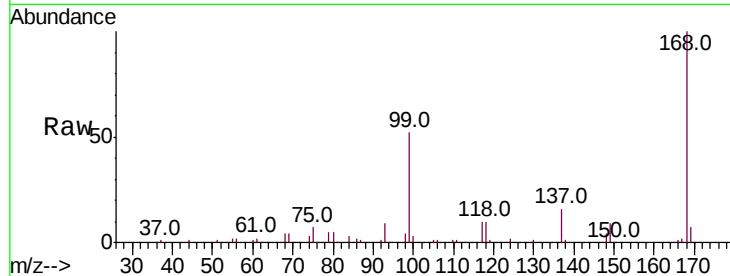
PB133456ZHE#02

Tot Ion:168 Resp: 179240

Ion Ratio Lower Upper

168 100

99 52.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064779.D (-1812) (-)

7.62

80000

60000

40000

20000

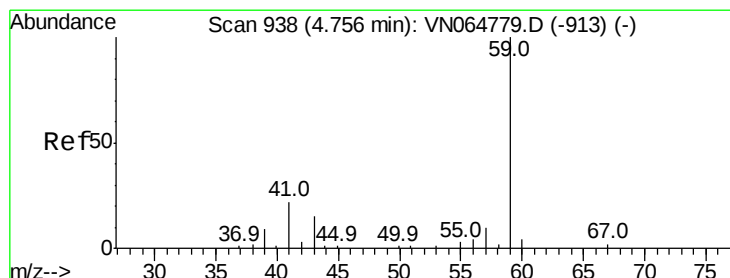
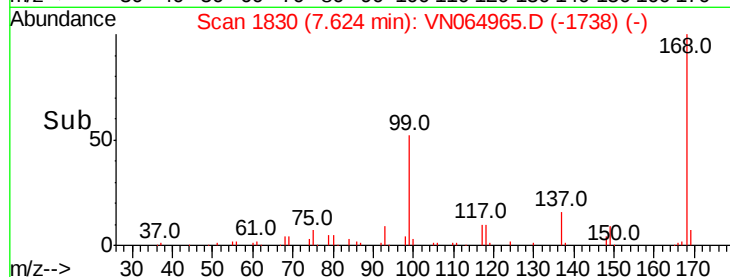
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Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.305 ug/l

RT: 4.74 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN064965.D

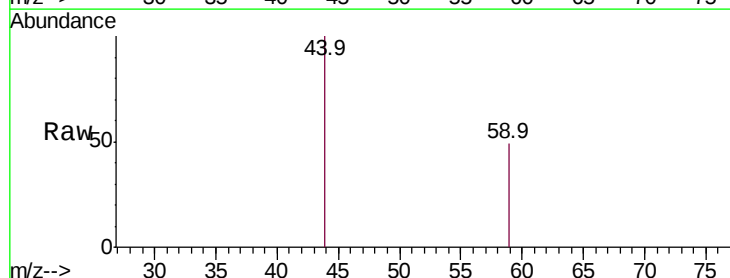
Acq: 8 Dec 2020 13:25

Tgt Ion: 59 Resp: 99

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN064779.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN064779.D (-913) (-)

4.74

200

150

100

50

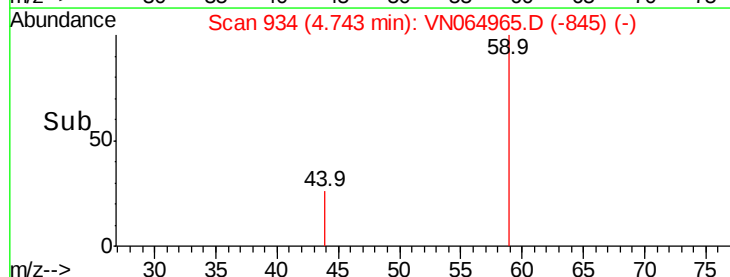
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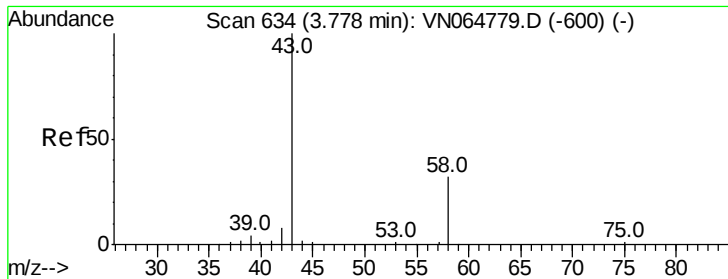
Time-->

4.73

4.74

4.75

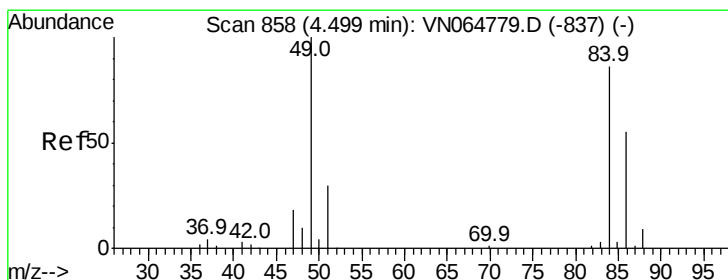
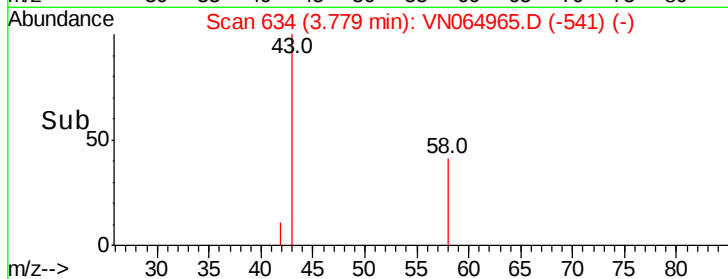
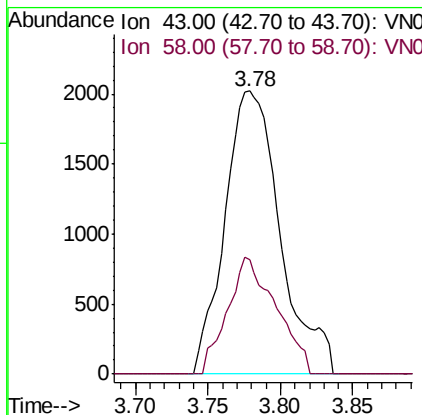
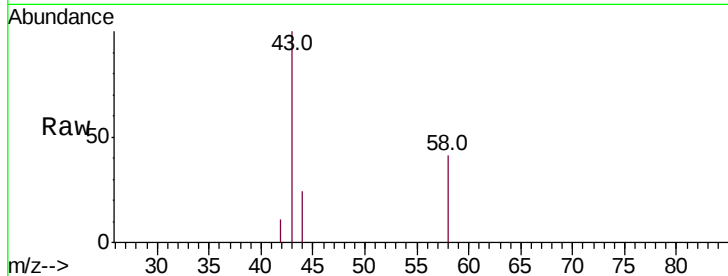




#16
Acetone
Concen: 7.857 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.00 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

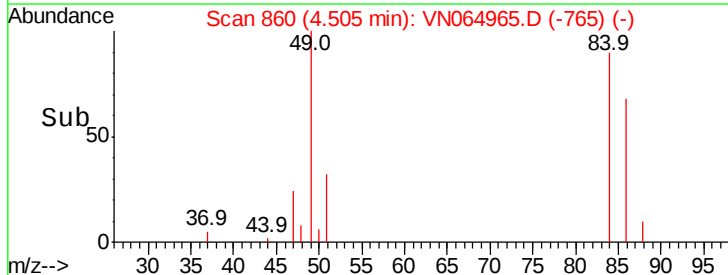
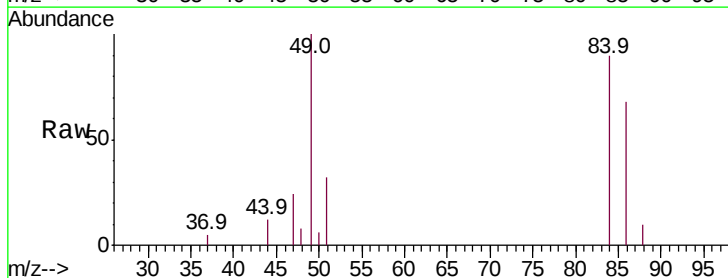
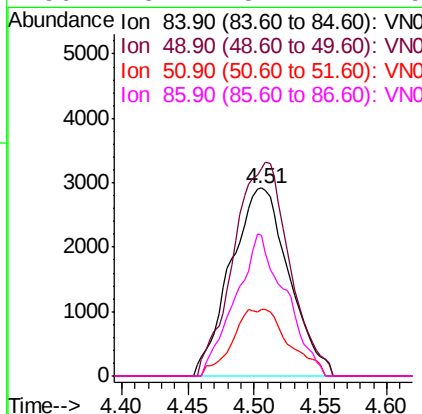
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#02

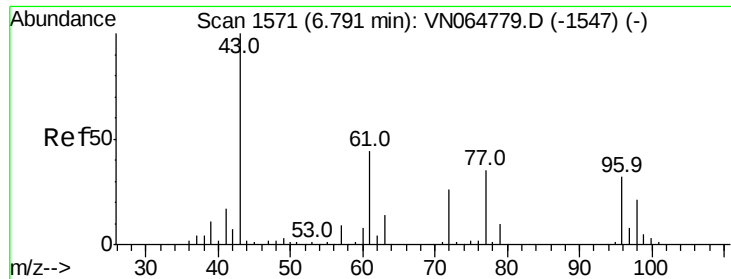
Tot Ion: 43 Resp: 5382
Ion Ratio Lower Upper
43 100
58 40.6 25.7 38.5#



#20
Methylene Chloride
Concen: 4.157 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Tgt Ion: 84 Resp: 8923
Ion Ratio Lower Upper
84 100
49 110.6 93.4 140.0
51 35.4 28.2 42.4
86 75.1 51.7 77.5





#25

2-Butanone

Concen: 3.232 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

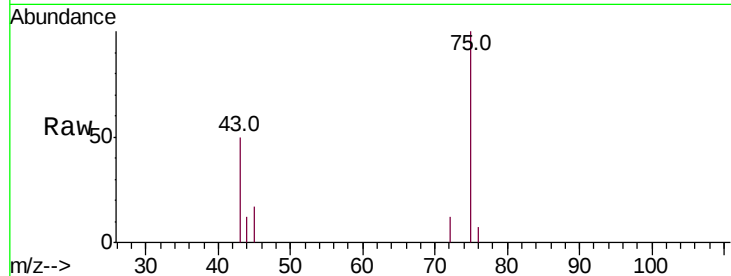
PB133456ZHE#02

Tot Ion: 43 Resp: 3589

Ion Ratio Lower Upper

43 100

72 24.4 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

1200

1000

800

600

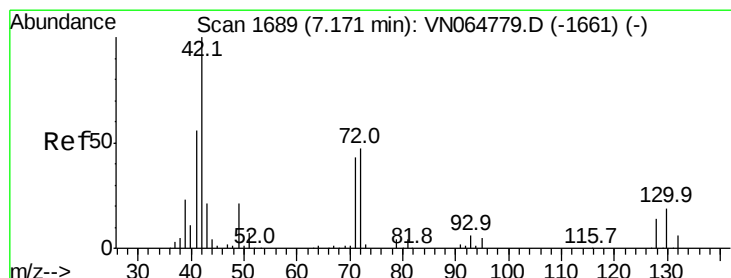
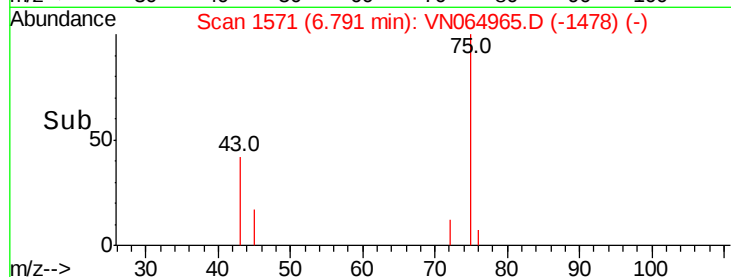
400

200

0

Time-->

6.70 6.75 6.80 6.85



#29

Tetrahydrofuran

Concen: 0.574 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

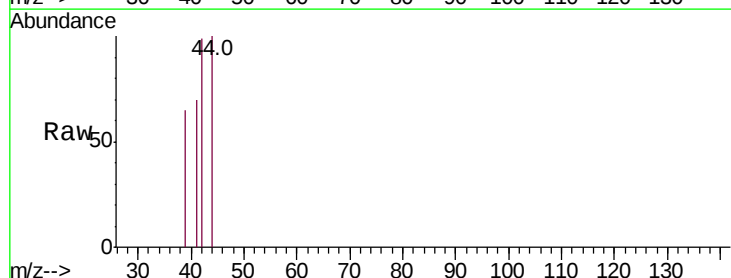
Tgt Ion: 42 Resp: 440

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

300

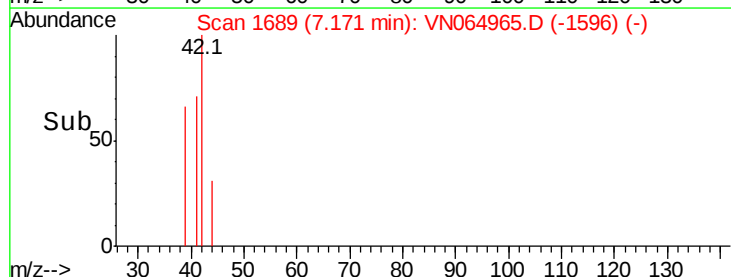
200

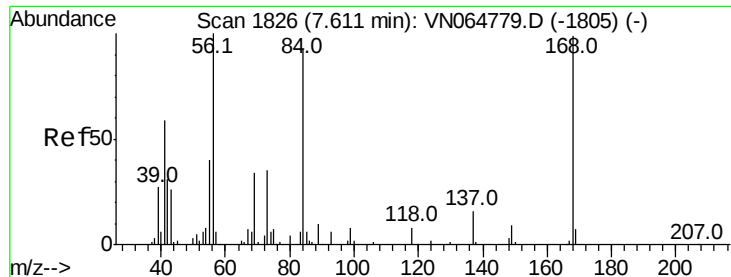
100

0

Time-->

7.14 7.16 7.18

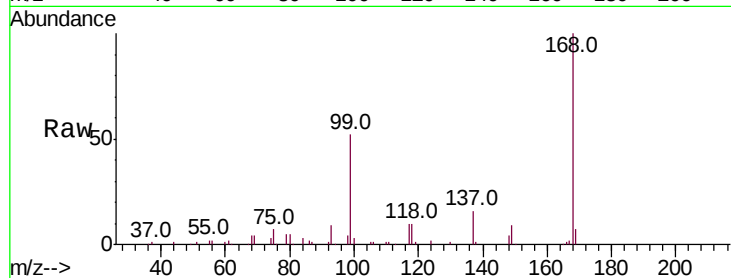




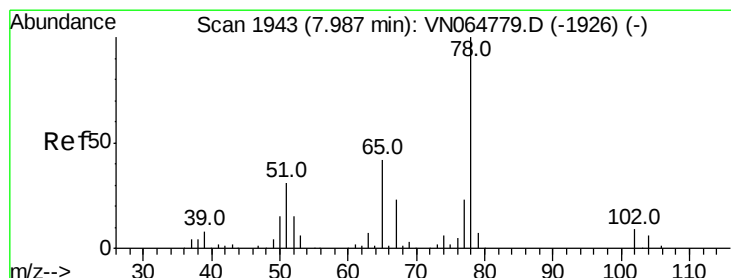
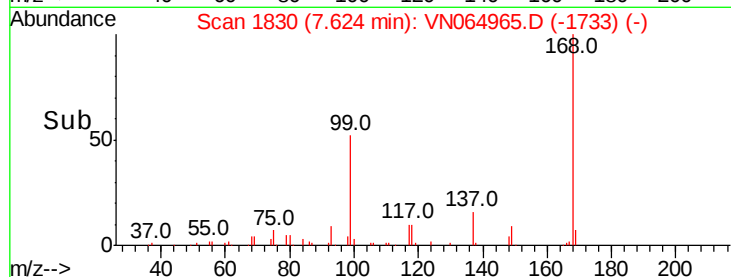
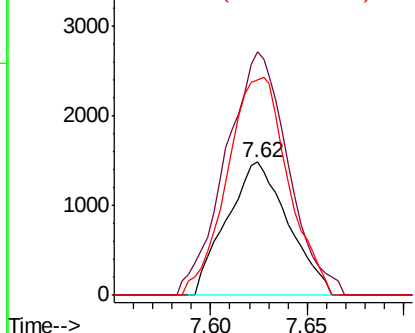
#31
Cyclohexane
Concen: 1.128 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#02

Tot Ion: 56 Resp: 3275
Ion Ratio Lower Upper
56 100
69 172.0 27.5 41.3#
84 161.8 73.9 110.9#

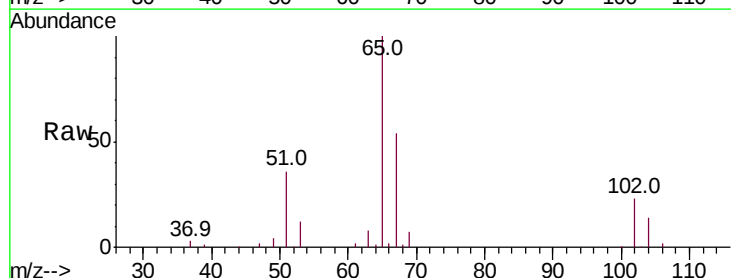


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

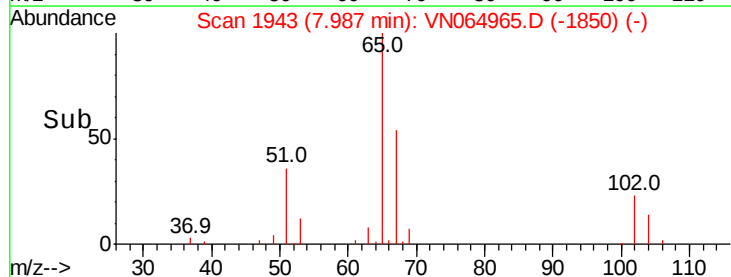
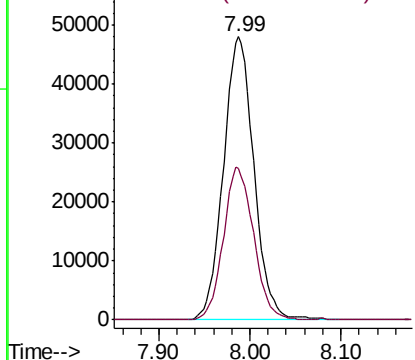


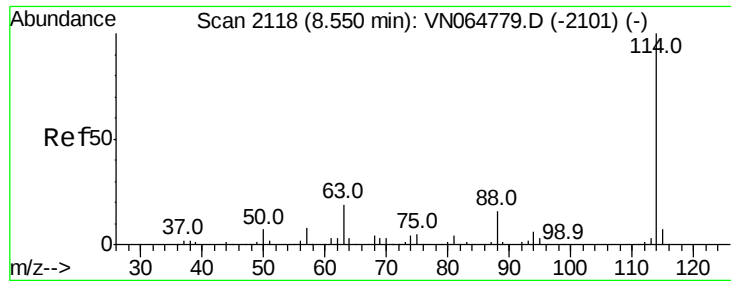
#33
1,2-Dichloroethane-d4
Concen: 53.634 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Tgt Ion: 65 Resp: 111761
Ion Ratio Lower Upper
65 100
67 53.3 0.0 108.2



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

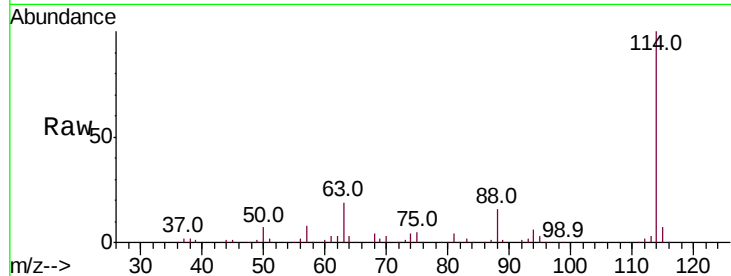




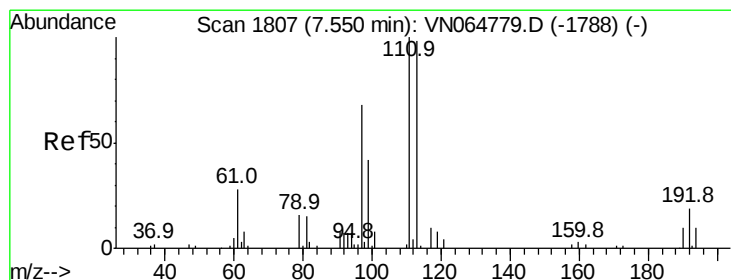
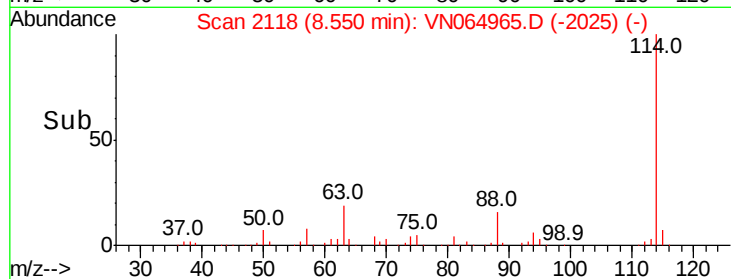
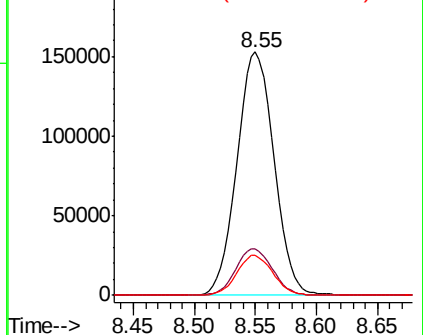
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Instrument :
 MSVOA_N
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 PB133456ZHE#02

Tot Ion:114 Resp: 321980
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 16.3 0.0 32.6

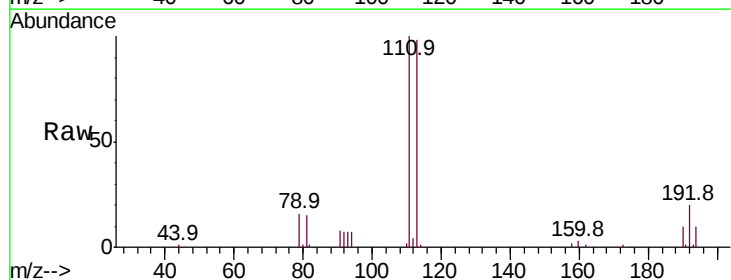


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

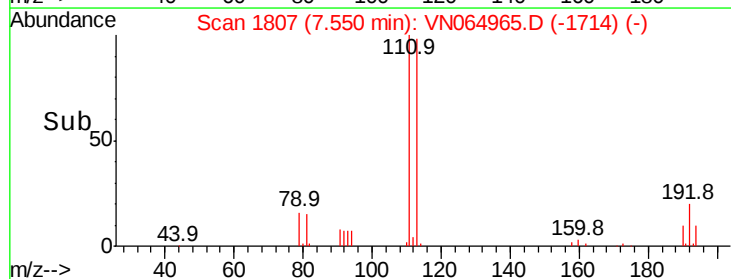
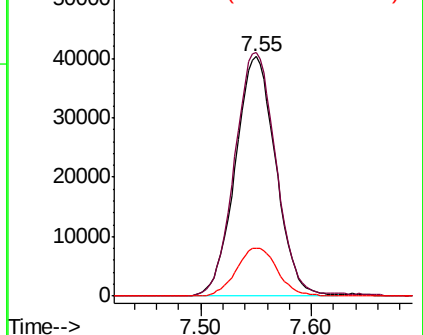


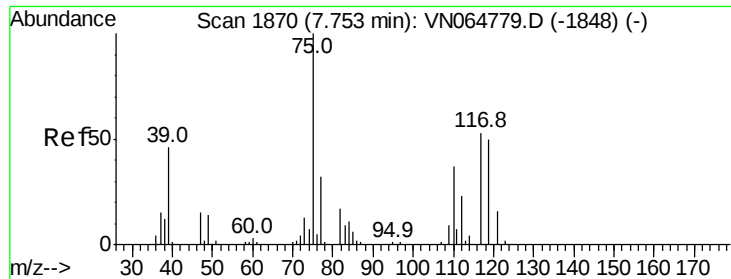
#35
 Dibromofluoromethane
 Concen: 53.197 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Tgt Ion:113 Resp: 102491
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.6 122.4
 192 20.3 16.2 24.2



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

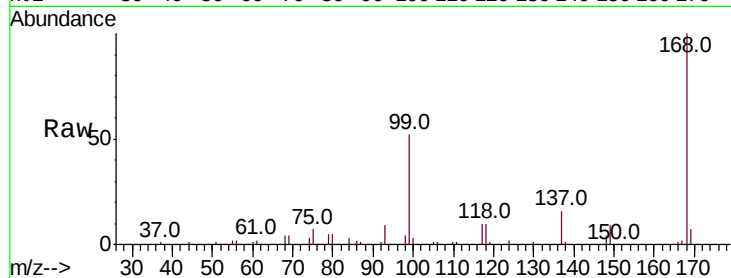




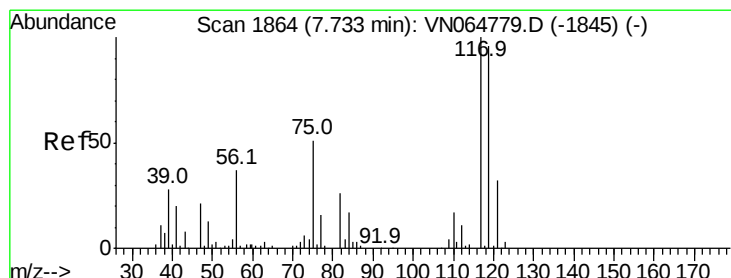
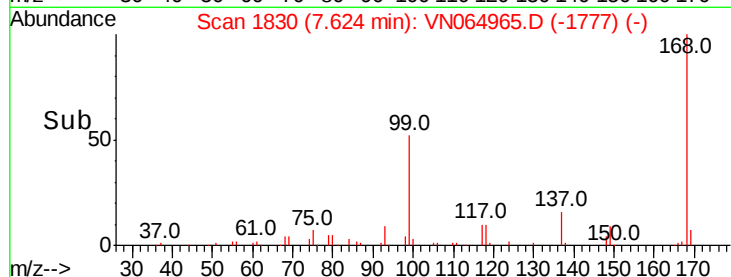
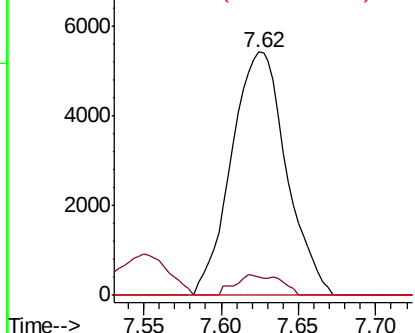
#36
 1,1-Dichloropropene
 Concen: 4.485 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Instrument :
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 PB133456ZHE#02

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.2	17.8	53.3#
77	0.0	25.0	37.4#

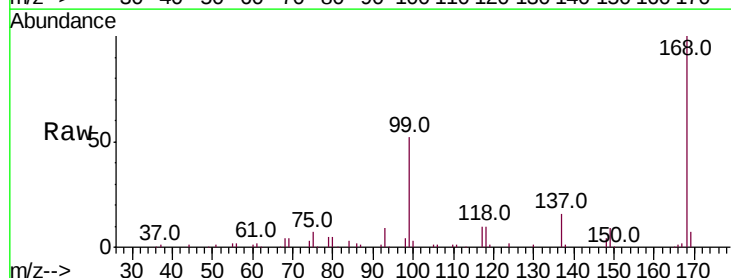


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

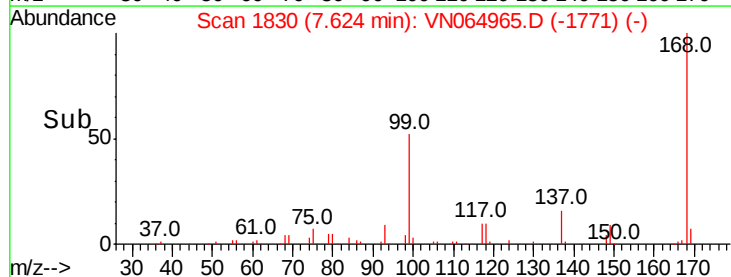
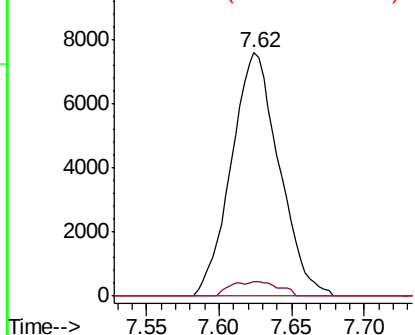


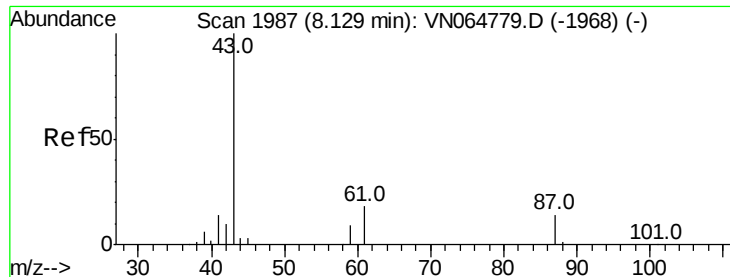
#38
 Carbon Tetrachloride
 Concen: 5.602 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.7	115.1#
121	0.0	25.4	38.2#



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: 3.625 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#02

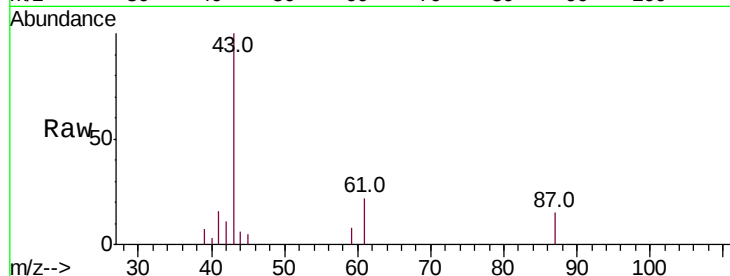
Tot Ion: 43 Resp: 16770

Ion Ratio Lower Upper

43 100

61 20.6 17.2 25.8

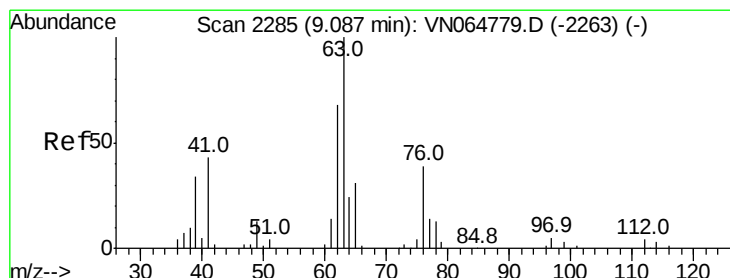
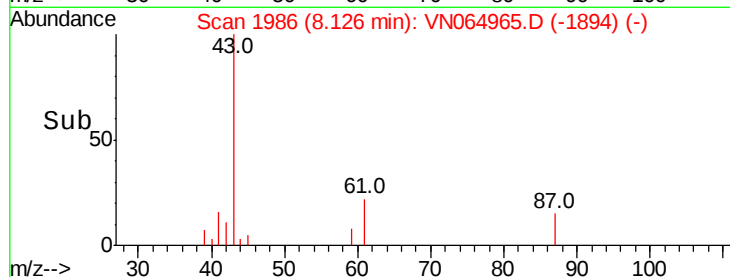
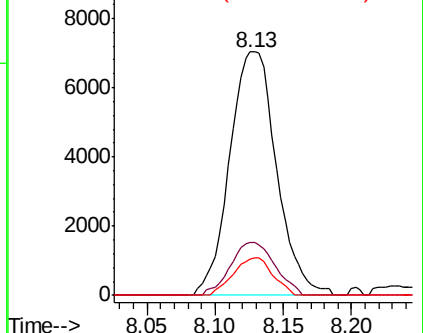
87 13.0 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.460 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064965.D

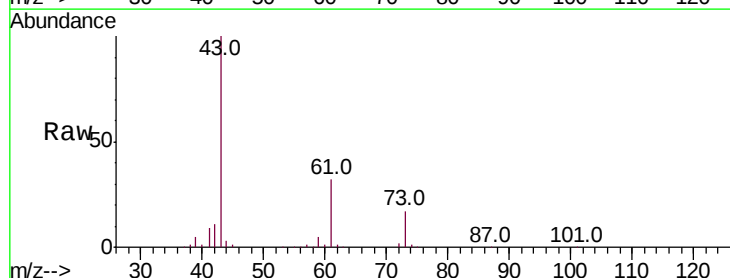
Acq: 8 Dec 2020 13:25

Tgt Ion: 63 Resp: 1089

Ion Ratio Lower Upper

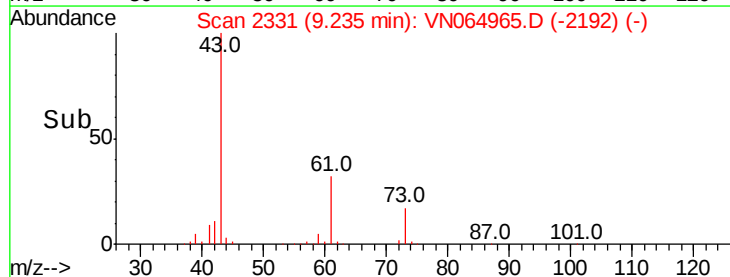
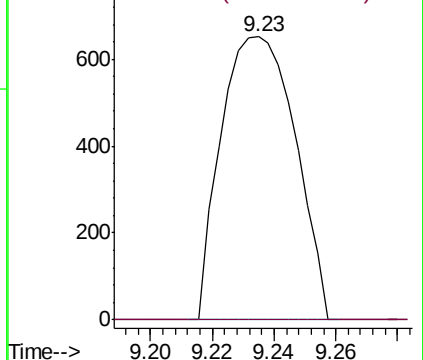
63 100

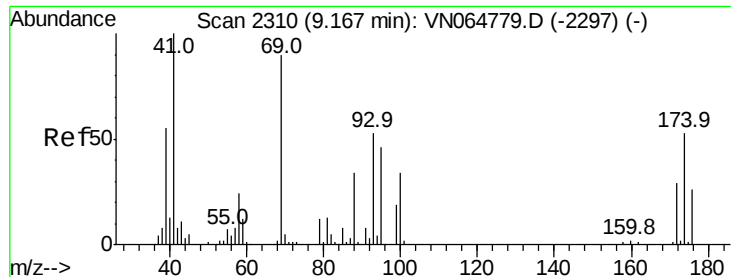
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

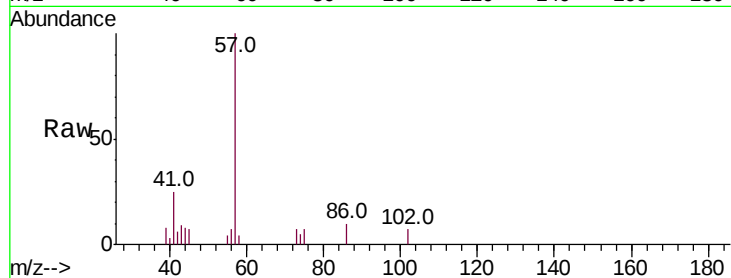




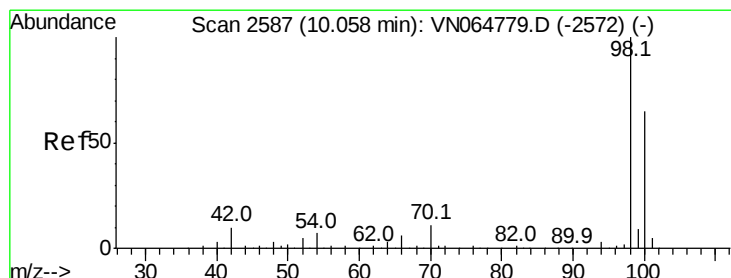
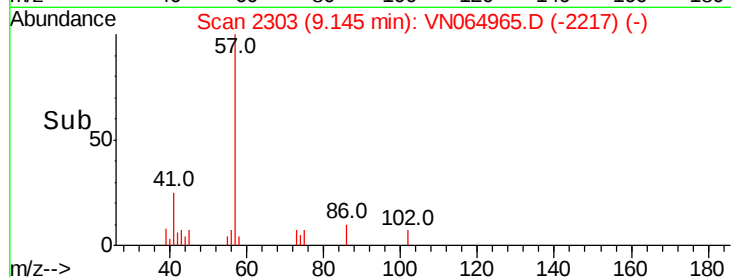
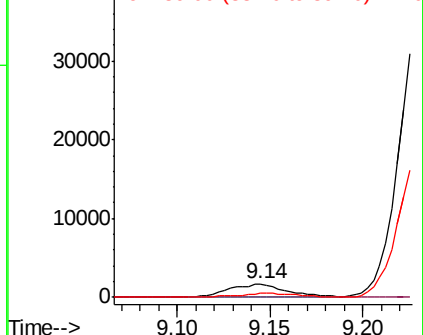
#48
Methvl methacrylate
Concen: 1.646 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#02

Tot Ion: 41 Resp: 3639
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

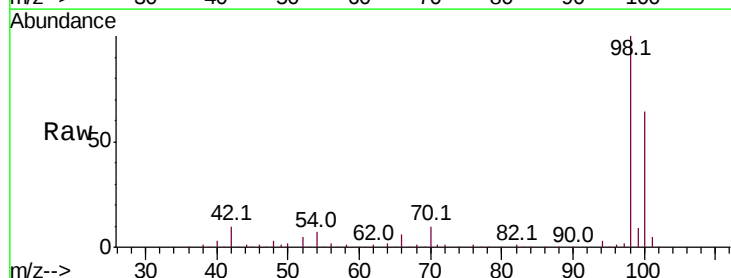


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

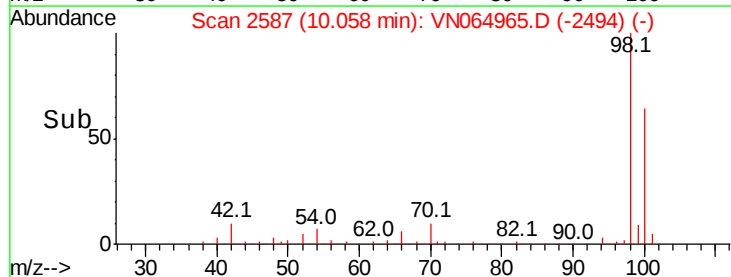
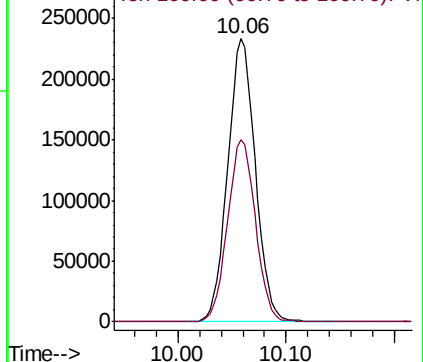


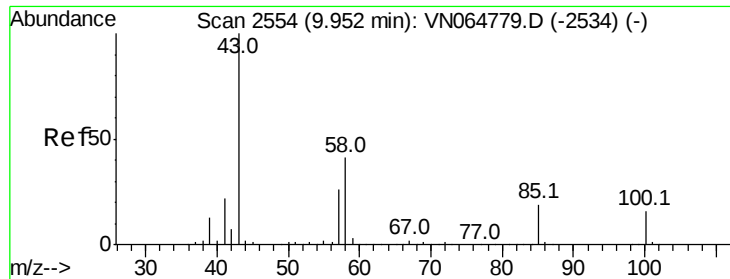
#50
Toluene-d8
Concen: 53.013 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Tgt Ion: 98 Resp: 417318
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.569 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

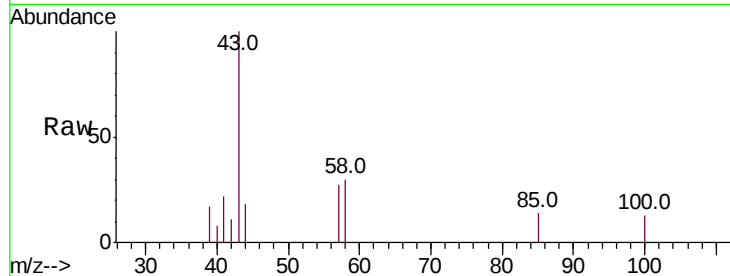
PB133456ZHE#02

Tot Ion: 43 Resp: 4358

Ion Ratio Lower Upper

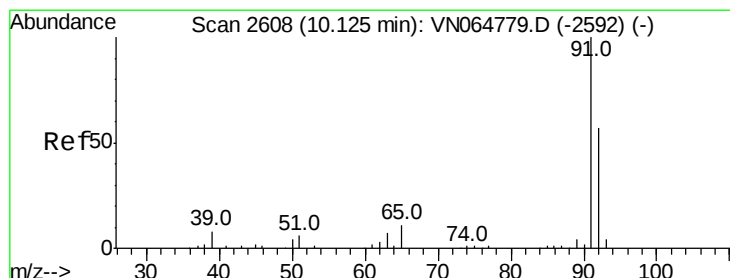
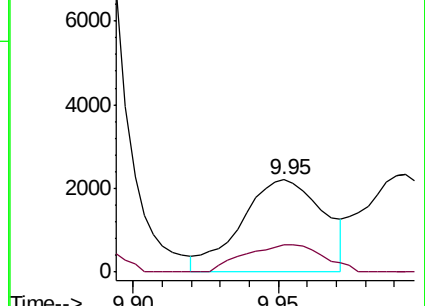
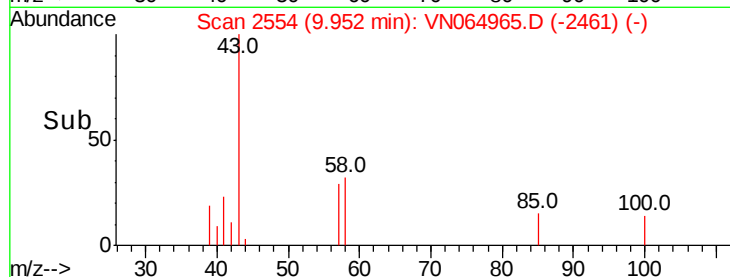
43 100

58 28.6 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)



#52

Toluene

Concen: 0.220 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064965.D

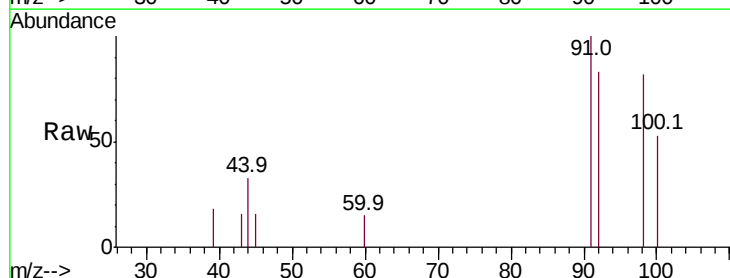
Acq: 8 Dec 2020 13:25

Tgt Ion: 92 Resp: 1241

Ion Ratio Lower Upper

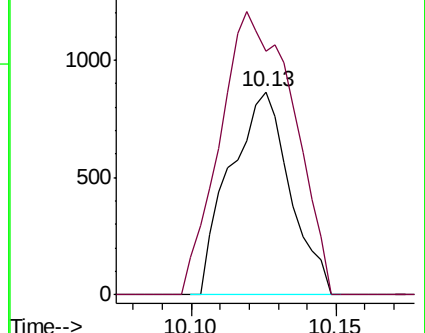
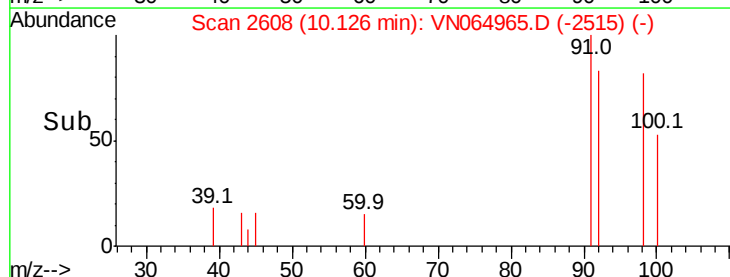
92 100

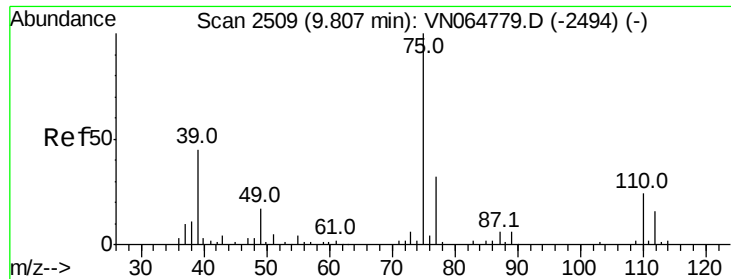
91 171.0 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN064779.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN064779.D (-2592) (-)



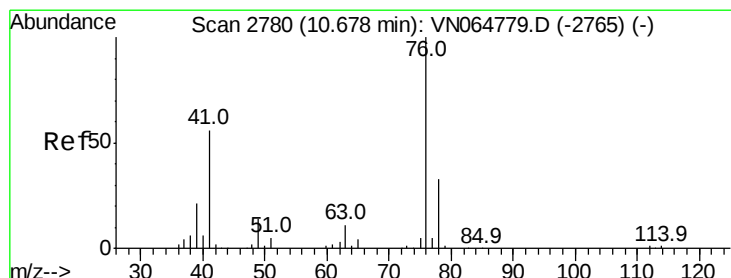
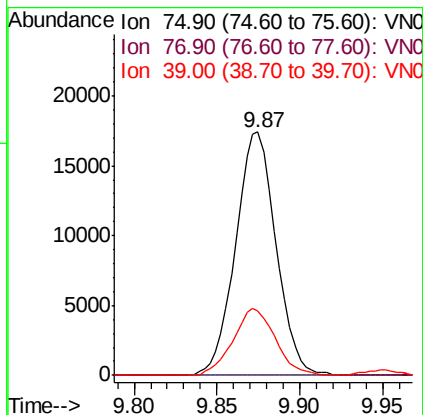
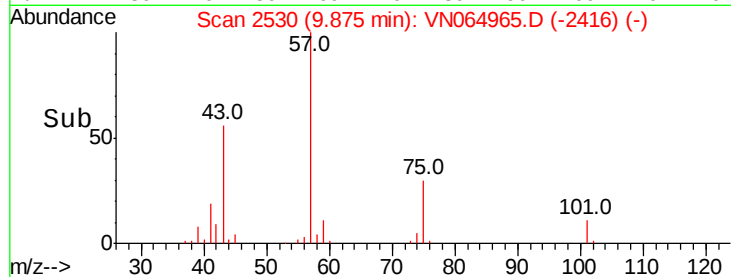
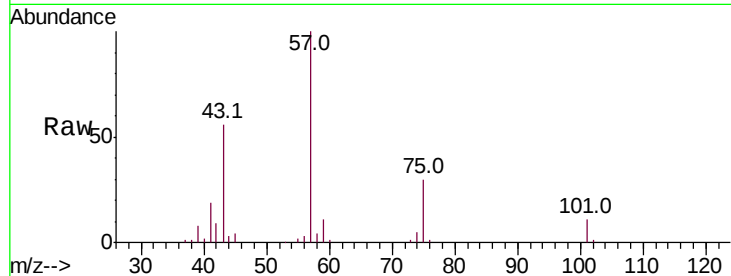


#54

cis-1,3-Dichloropropene
 Concen: 7.754 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#02

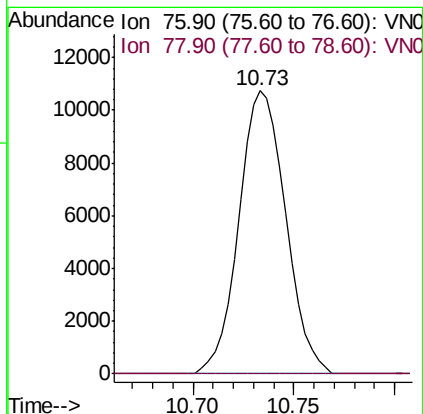
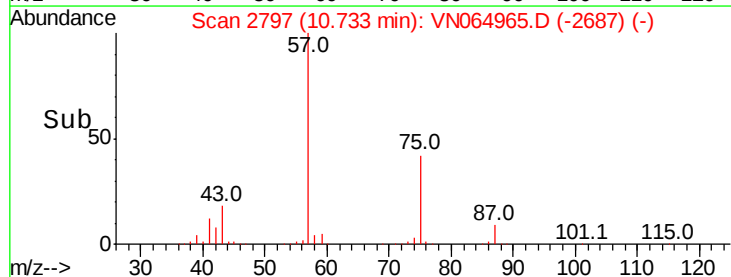
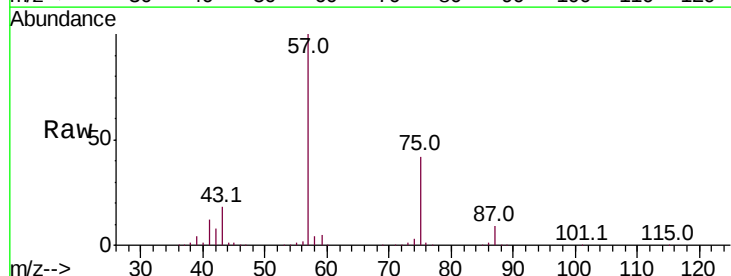
Tot Ion: 75 Resp: 29469
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 26.3 35.6 53.4#

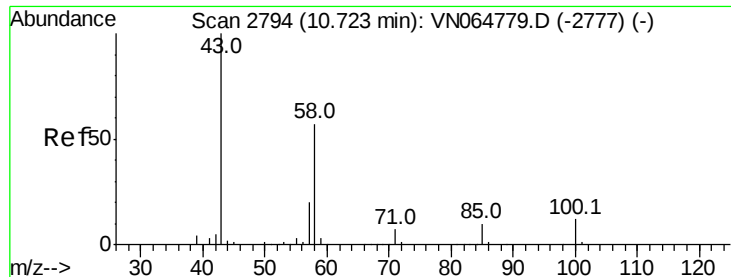


#57

1,3-Dichloropropane
 Concen: 4.559 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Tgt Ion: 76 Resp: 17417
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 111.618 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

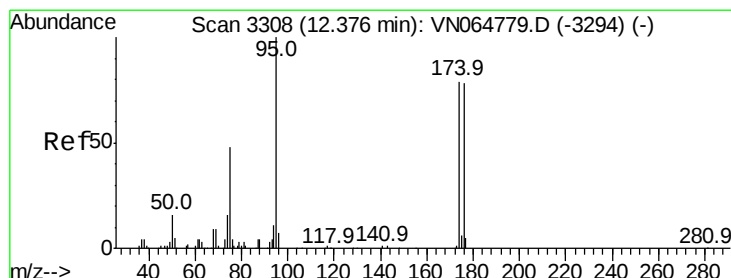
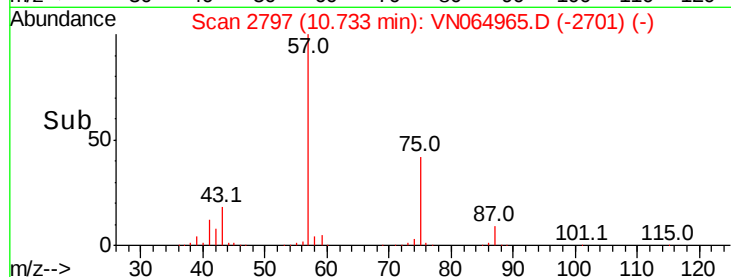
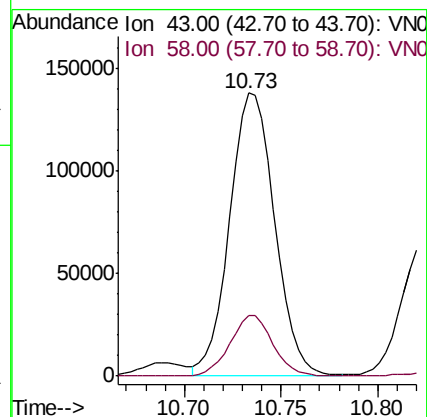
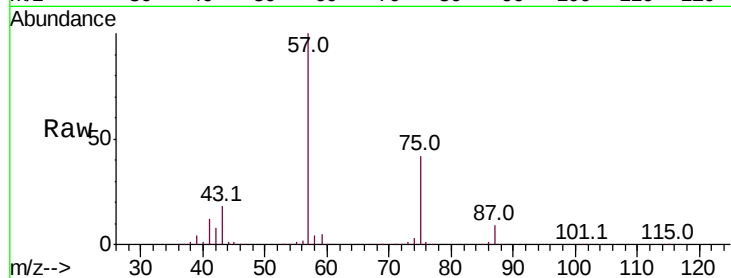
PB133456ZHE#02

Tot Ion: 43 Resp: 223088

Ion Ratio Lower Upper

43 100

58 20.7 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 57.046 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

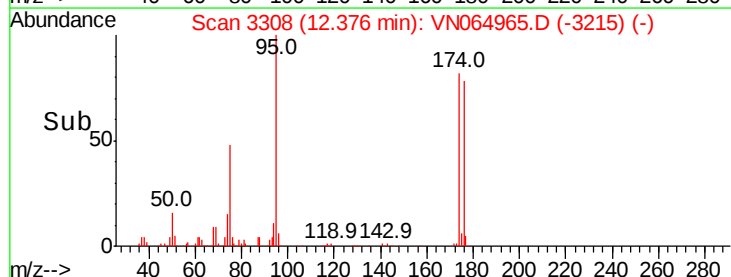
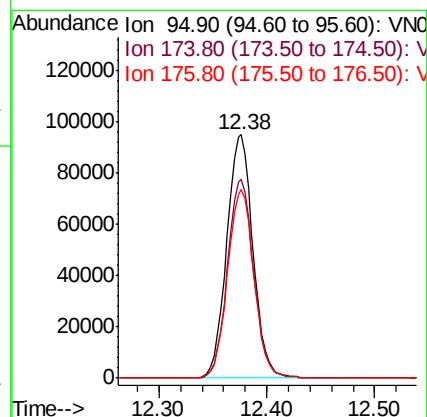
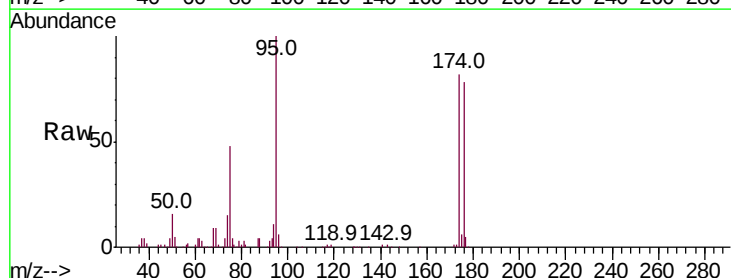
Tgt Ion: 95 Resp: 160712

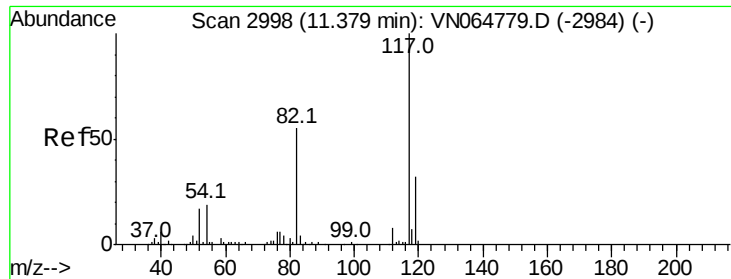
Ion Ratio Lower Upper

95 100

174 81.4 0.0 160.4

176 78.3 0.0 158.4

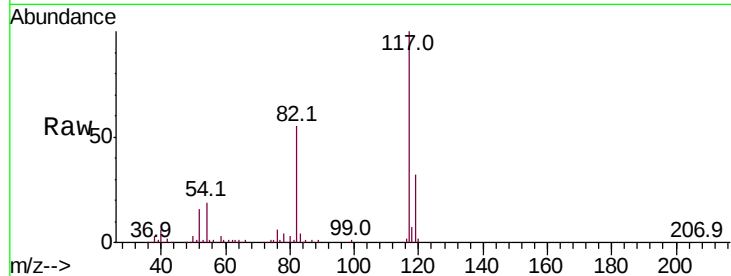




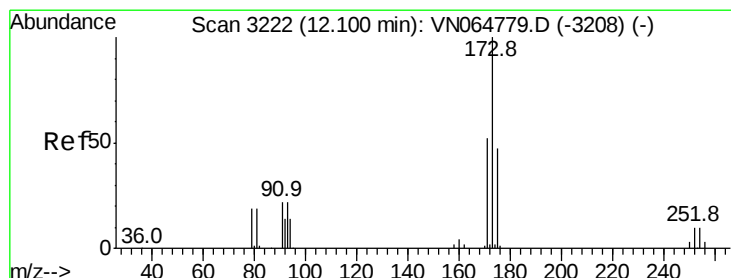
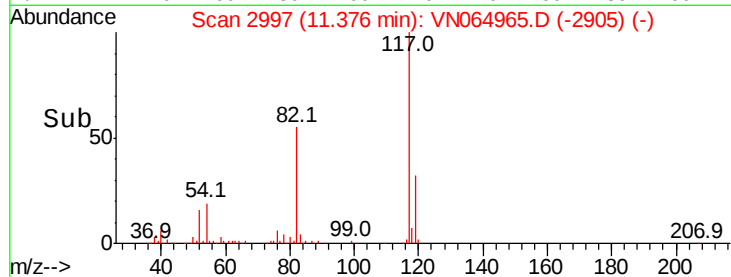
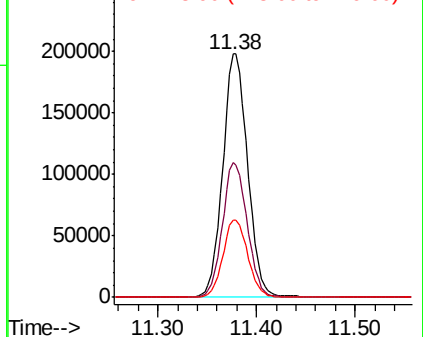
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#02

Tot Ion:117 Resp: 348565
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 31.6 25.8 38.6

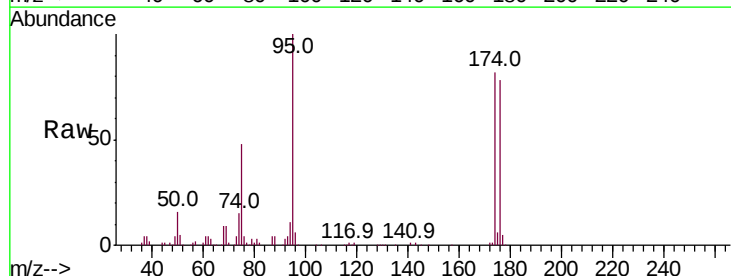


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

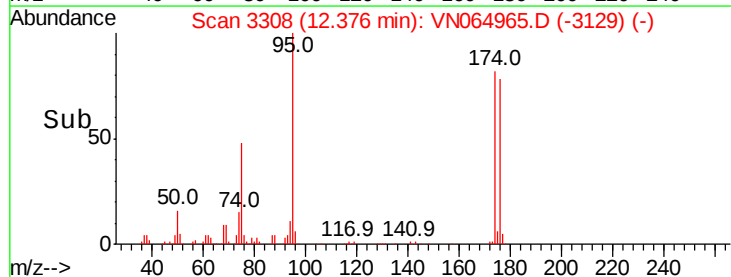
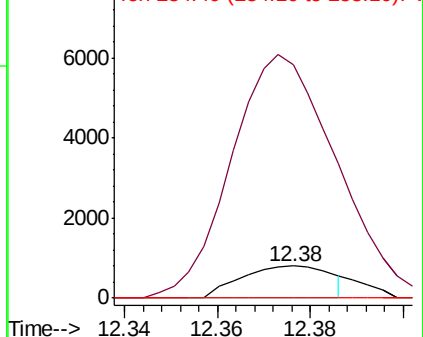


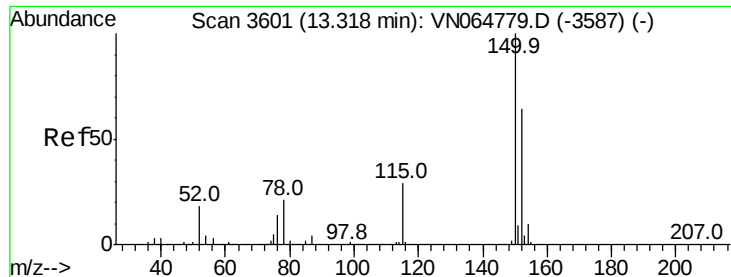
#71
Bromoform
Concen: 0.490 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064965.D
Acq: 8 Dec 2020 13:25

Tgt Ion:173 Resp: 1076
Ion Ratio Lower Upper
173 100
175 784.2 24.3 72.8#
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# 3601

Delta R.T. 0.00 min

Lab File: VN064965.D

Acq: 8 Dec 2020 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#02

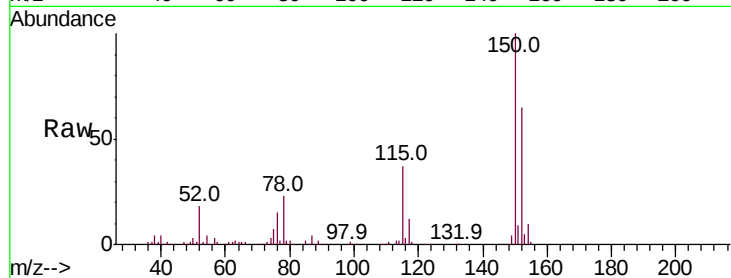
Tot Ion:152 Resp: 147426

Ion Ratio Lower Upper

152 100

115 57.9 29.7 89.1

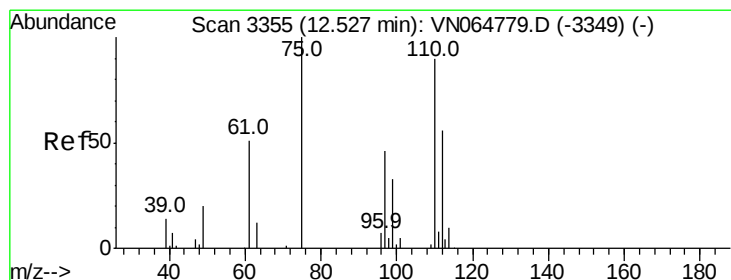
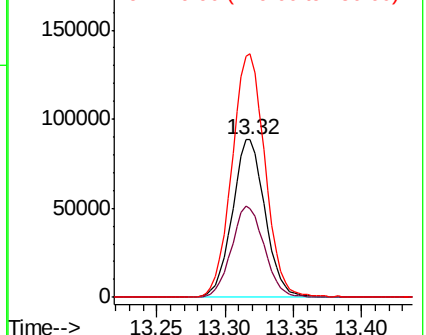
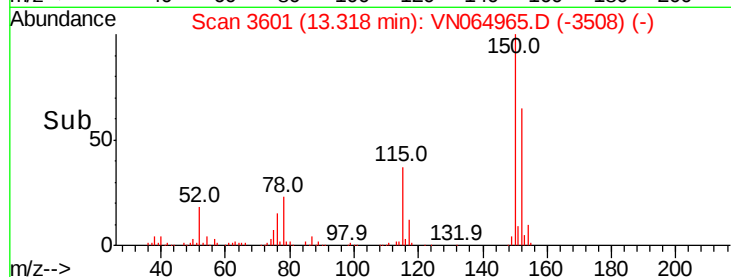
150 156.8 0.0 350.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.118 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064965.D

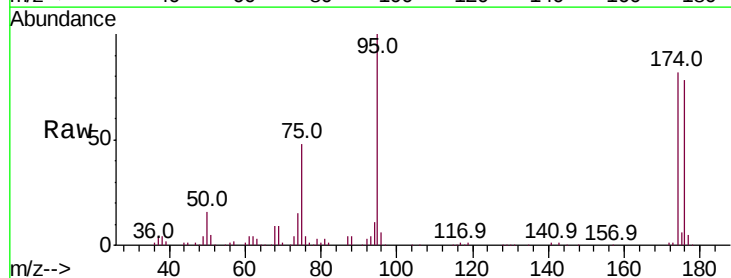
Acq: 8 Dec 2020 13:25

Tgt Ion: 75 Resp: 76574

Ion Ratio Lower Upper

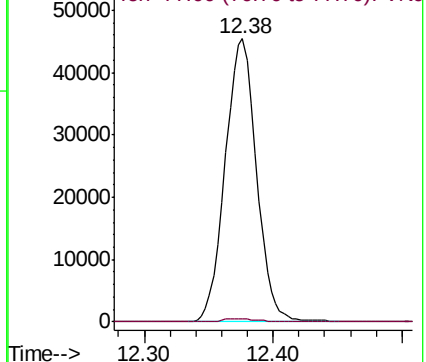
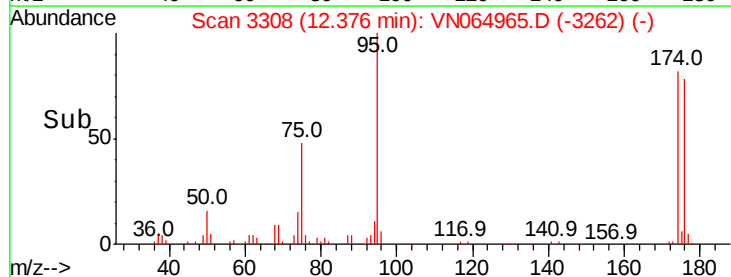
75 100

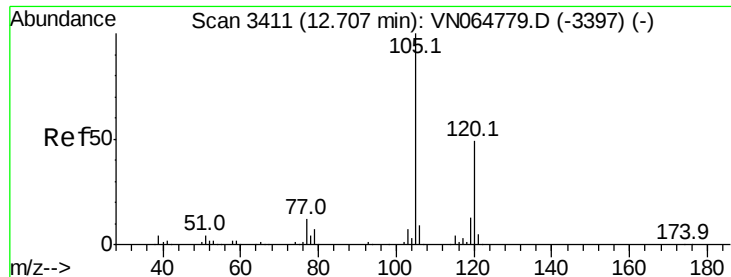
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

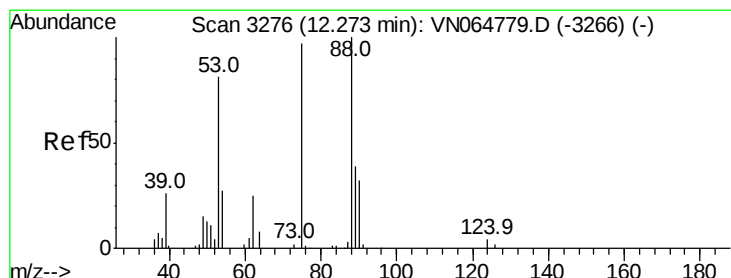
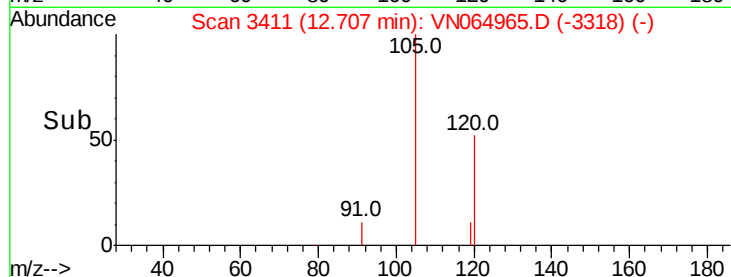
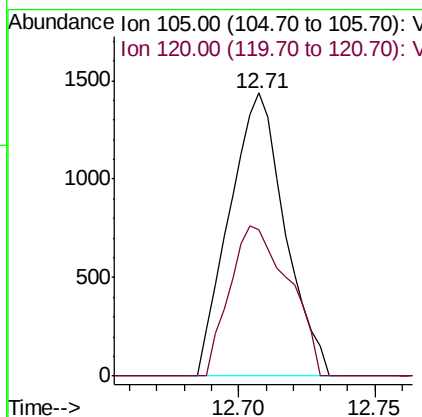
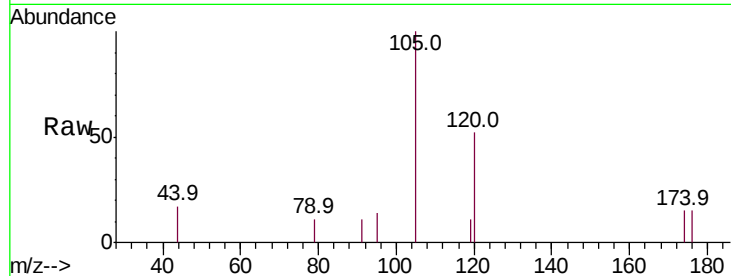




#80
 1,3,5-Trimethylbenzene
 Concen: 0.238 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#02

Tot Ion:105 Resp: 2032
 Ion Ratio Lower Upper
 105 100
 120 56.9 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.102 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064965.D
 Acq: 8 Dec 2020 13:25

Tgt Ion: 75 Resp: 76574
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

