

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064976.D
 Acq On : 8 Dec 2020 17:50
 Operator : JC/MD
 Sample : PB133456ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#13

Quant Time: Dec 09 06:53:41 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	170773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	326929	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	336774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139245	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	107328	54.06	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	108.12%	
35) Dibromofluoromethane		7.55	113	99831	51.03	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.06%	
50) Toluene-d8		10.06	98	402367	50.34	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.68%	
62) 4-Bromofluorobenzene		12.38	95	149481	52.26	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	104.52%	

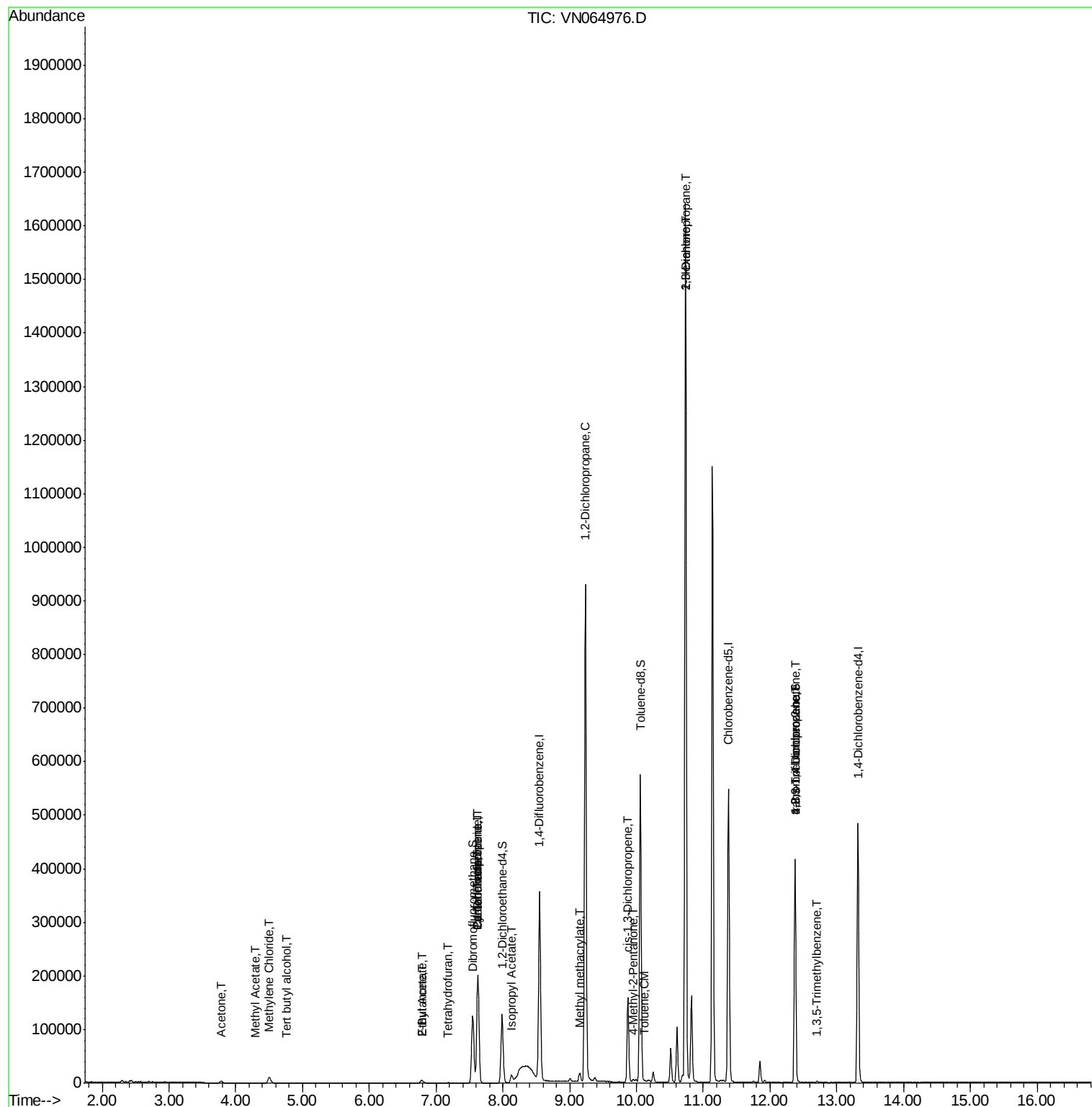
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	106	0.342	ug/l #	73
16) Acetone	3.78	43	2832	4.339	ug/l	95
18) Methyl Acetate	4.29	43	1031	0.525	ug/l #	50
20) Methylene Chloride	4.50	84	8466	4.140	ug/l	93
25) 2-Butanone	6.79	43	3601	3.404	ug/l	97
29) Tetrahydrofuran	7.17	42	549	0.752	ug/l #	41
31) Cyclohexane	7.62	56	2822	1.020	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11781	3.888	ug/l #	46
37) Ethyl Acetate	6.79	43	3601	1.234	ug/l #	66
38) Carbon Tetrachloride	7.63	117	16108	5.109	ug/l #	18
43) Isopropyl Acetate	8.13	43	18598	3.960	ug/l	94
45) 1,2-Dichloropropane	9.23	63	1054	0.438	ug/l #	43
48) Methyl methacrylate	9.14	41	4361	1.943	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	2660	0.943	ug/l	92
52) Toluene	10.12	92	1410	0.247	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	29322	7.598	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	17346	4.472	ug/l #	42
59) 2-Hexanone	10.74	43	219532	108.176	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	70400	23.476	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1711	0.213	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	70400	64.343	ug/l #	15

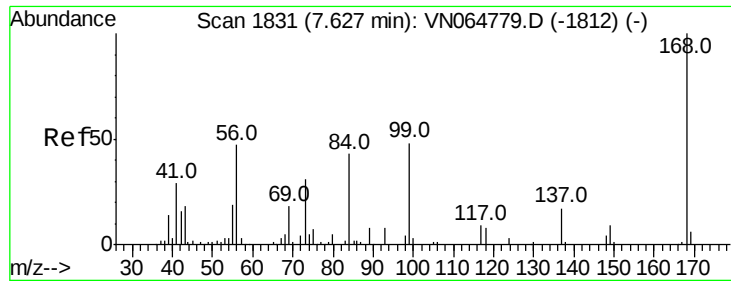
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

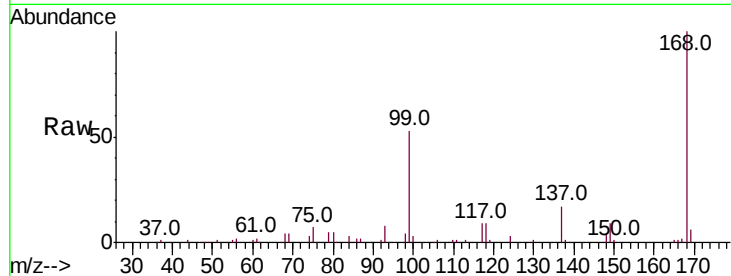
PB133456ZHE#13

Tot Ion:168 Resp: 170773

Ion Ratio Lower Upper

168 100

99 53.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

60000

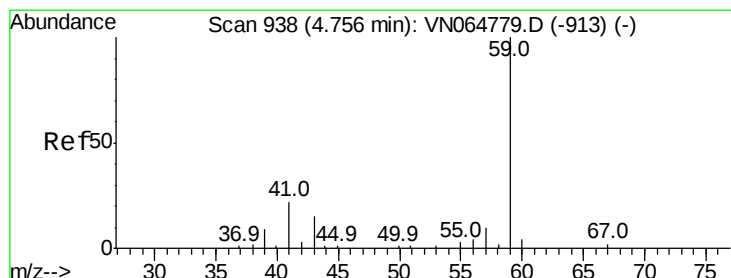
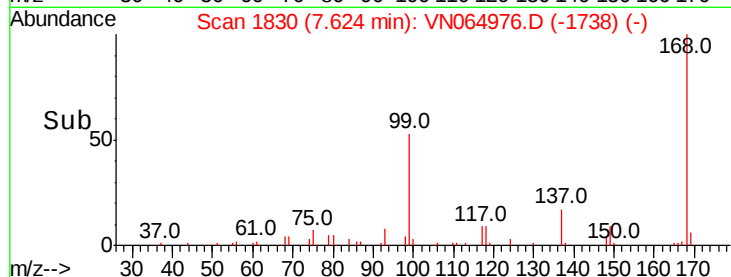
40000

20000

0

7.50 7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.342 ug/l

RT: 4.76 min Scan# 939

Delta R.T. 0.00 min

Lab File: VN064976.D

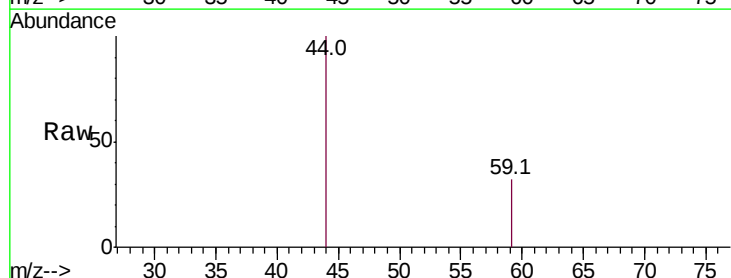
Acq: 8 Dec 2020 17:50

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

200

150

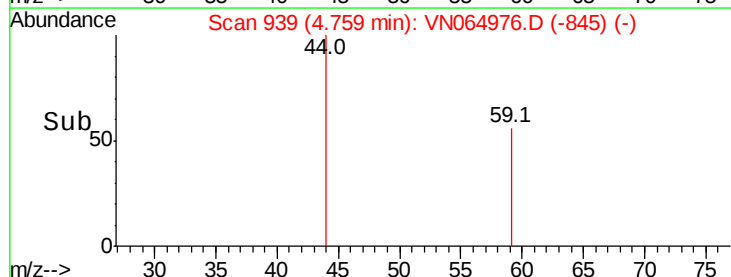
100

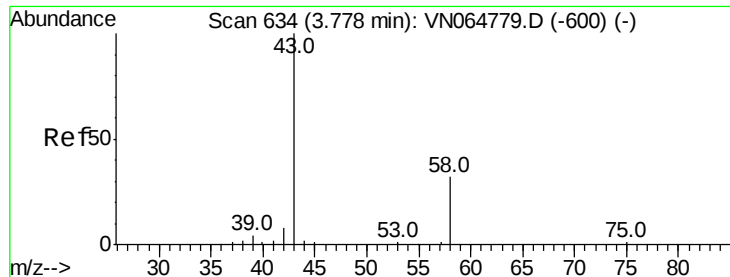
50

0

4.75 4.76 4.77

Time-->





#16

Acetone

Concen: 4.339 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

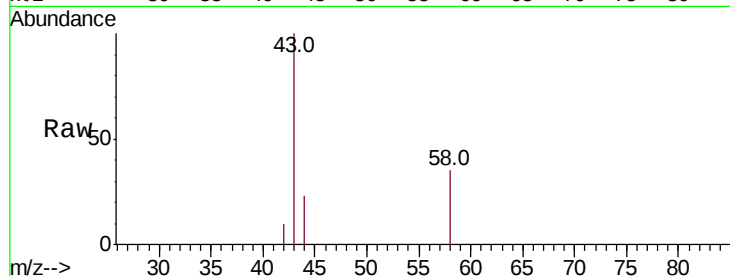
PB133456ZHE#13

Tot Ion: 43 Resp: 2832

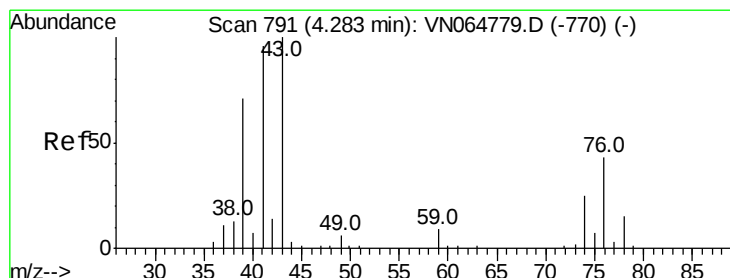
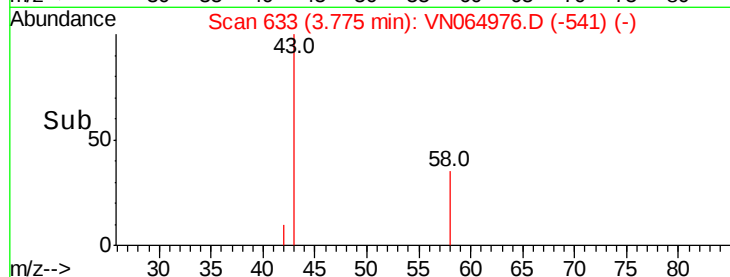
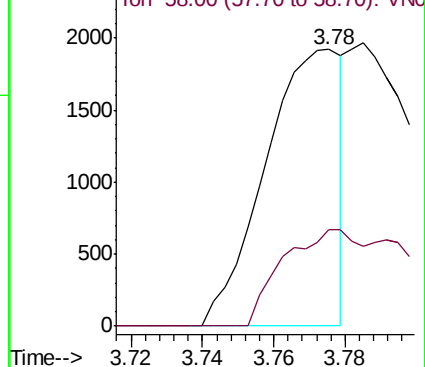
Ion Ratio Lower Upper

43 100

58 34.7 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064976.D (-541) (-)



#18

Methyl Acetate

Concen: 0.525 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064976.D

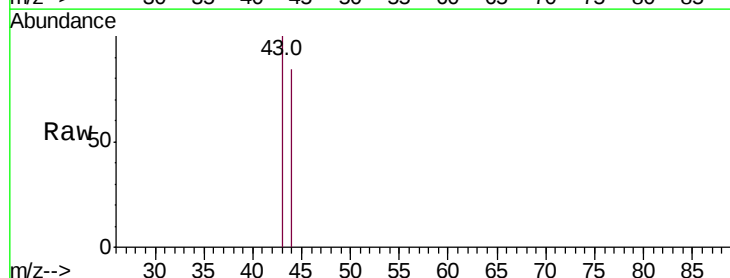
Acq: 8 Dec 2020 17:50

Tgt Ion: 43 Resp: 1031

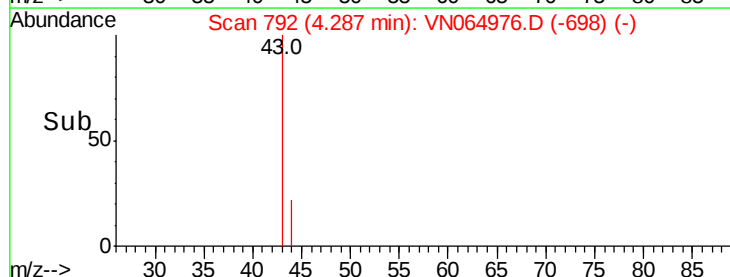
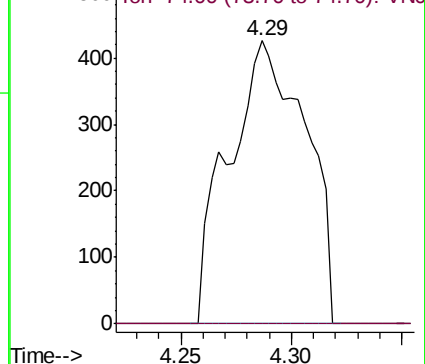
Ion Ratio Lower Upper

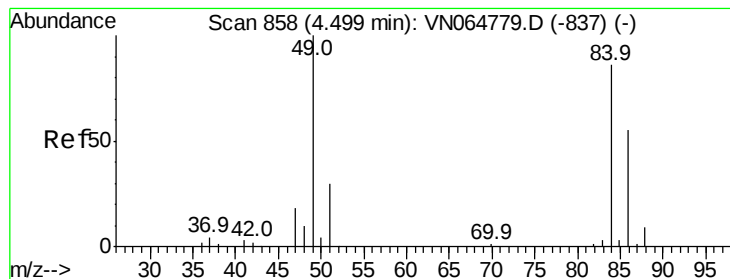
43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064976.D (-698) (-)





#20

Methvlene Chloride

Concen: 4.140 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

Tot Ion: 84 Resp: 8466

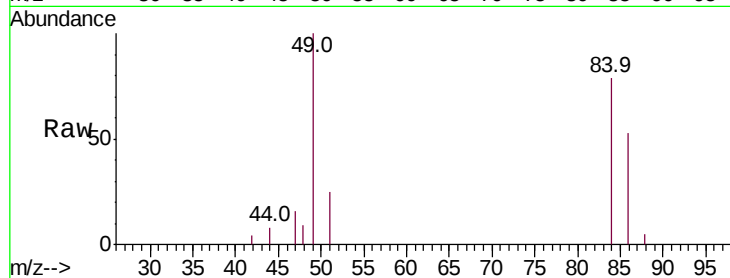
Ion Ratio Lower Upper

84 100

49 126.2 93.4 140.0

51 31.3 28.2 42.4

86 67.4 51.7 77.5

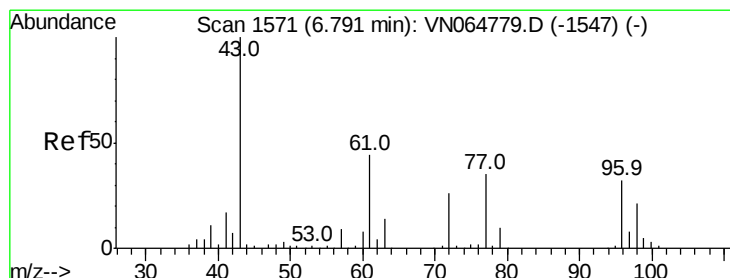
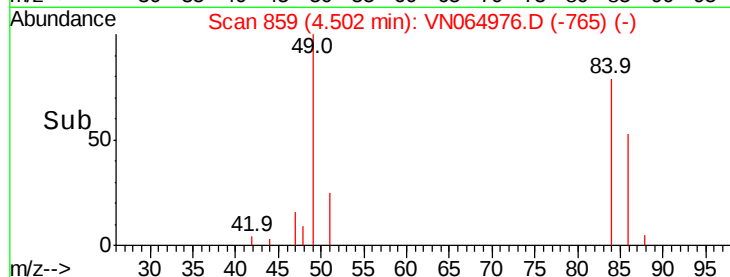
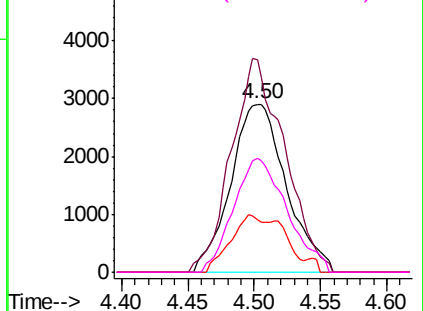


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 3.404 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN064976.D

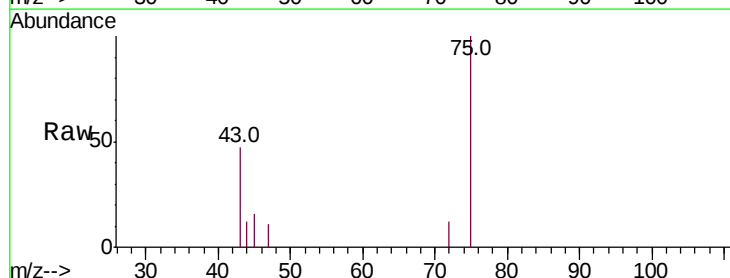
Acq: 8 Dec 2020 17:50

Tgt Ion: 43 Resp: 3601

Ion Ratio Lower Upper

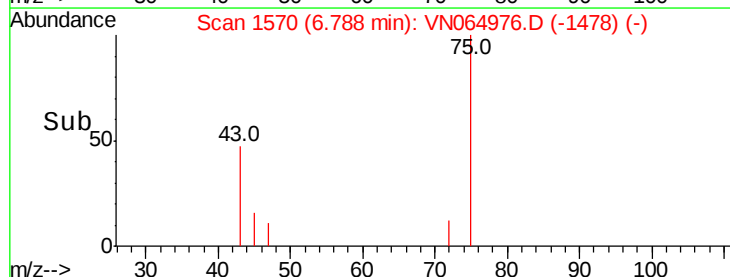
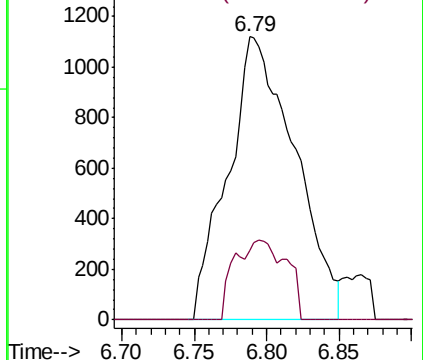
43 100

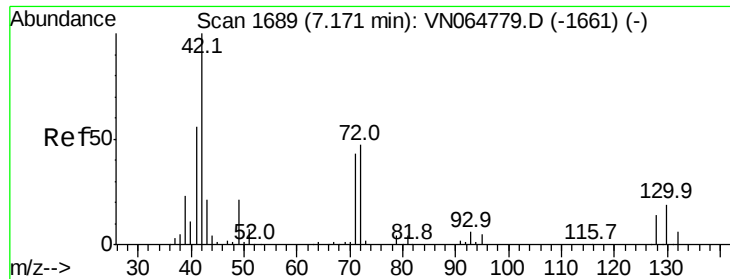
72 24.6 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.752 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

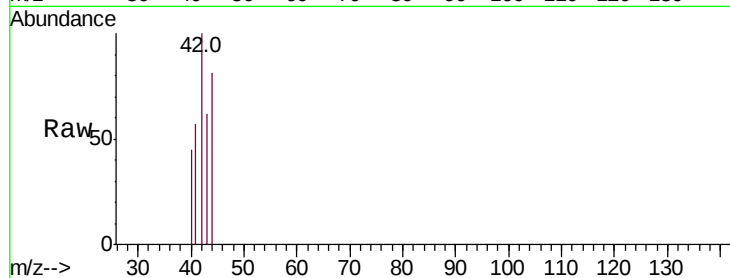
Tot Ion: 42 Resp: 549

Ion Ratio Lower Upper

42 100

72 11.1 36.6 54.8#

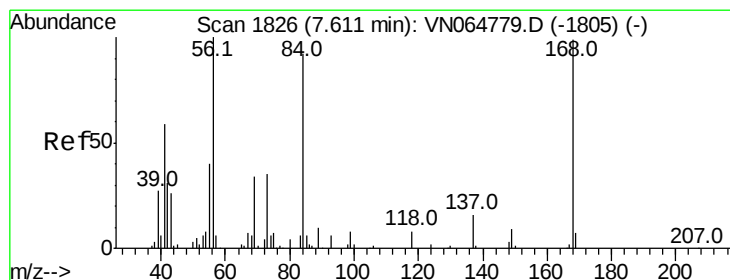
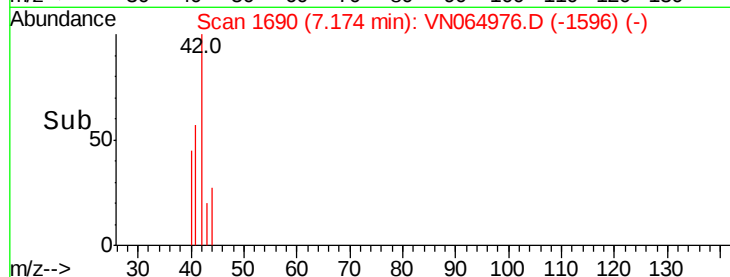
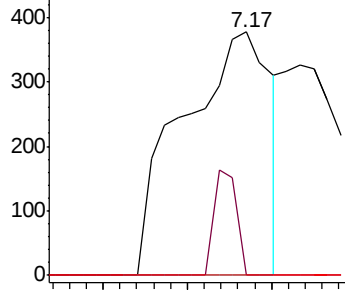
71 0.0 33.6 50.4#



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



#31

Cyclohexane

Concen: 1.020 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

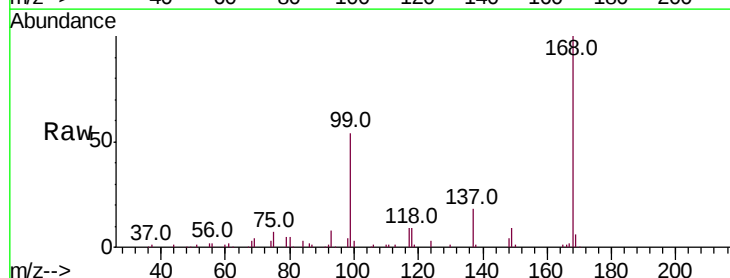
Tgt Ion: 56 Resp: 2822

Ion Ratio Lower Upper

56 100

69 190.7 27.5 41.3#

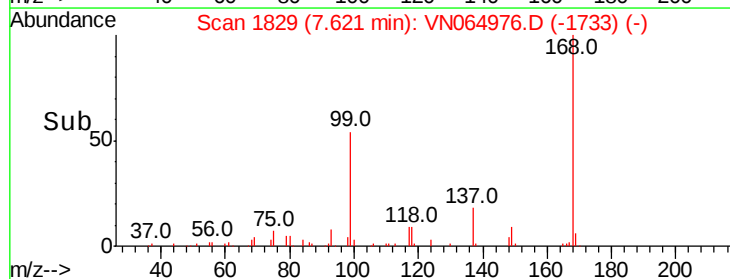
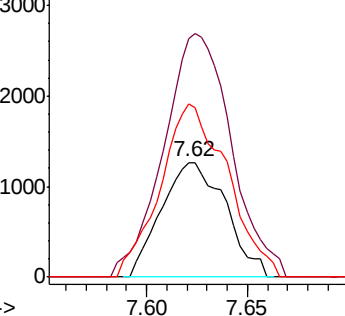
84 138.7 73.9 110.9#

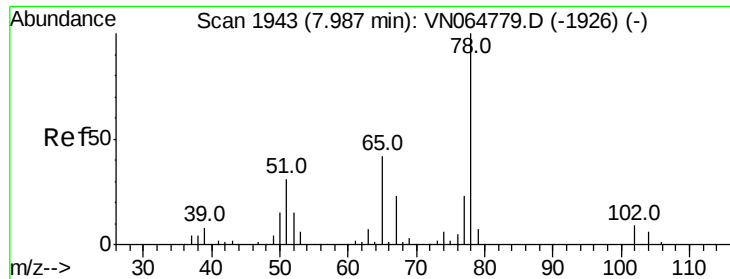


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

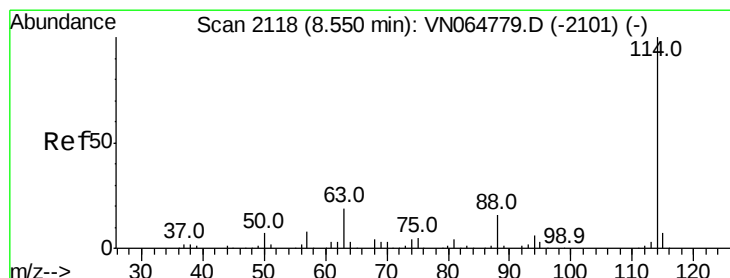
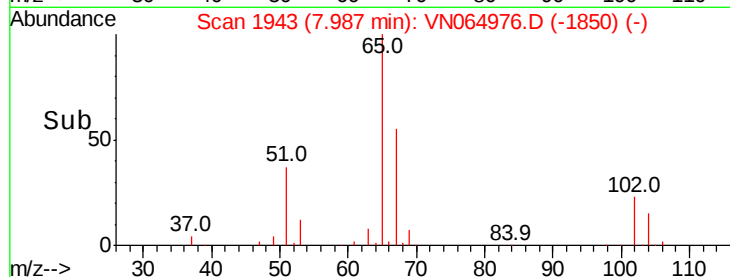
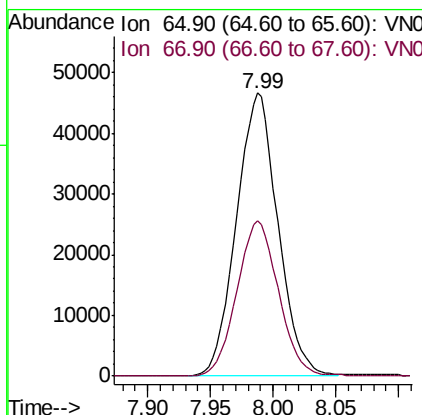
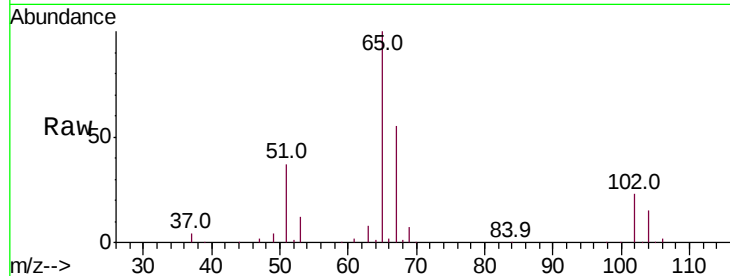




#33
 1,2-Dichloroethane-d4
 Concen: 54.060 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

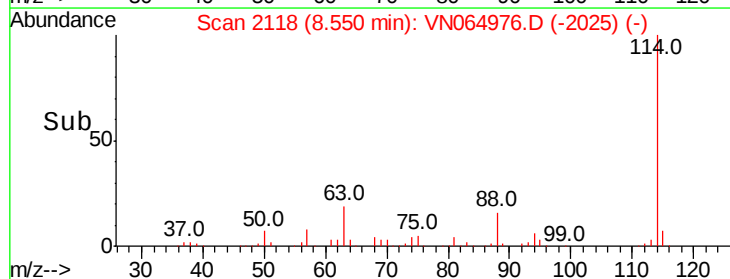
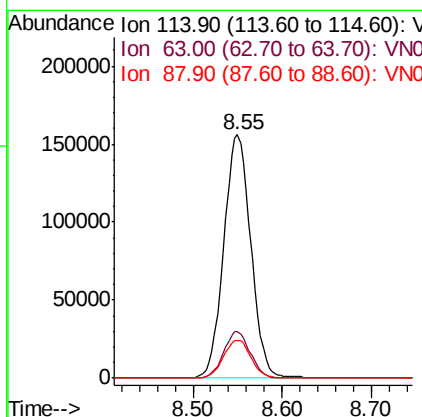
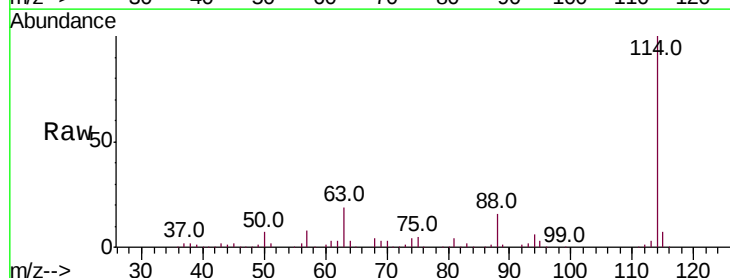
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 PB133456ZHE#13

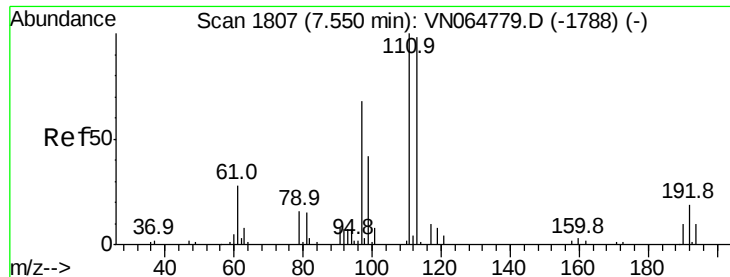
Tot Ion: 65 Resp: 107328
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

Tgt Ion: 114 Resp: 326929
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.6 0.0 32.6

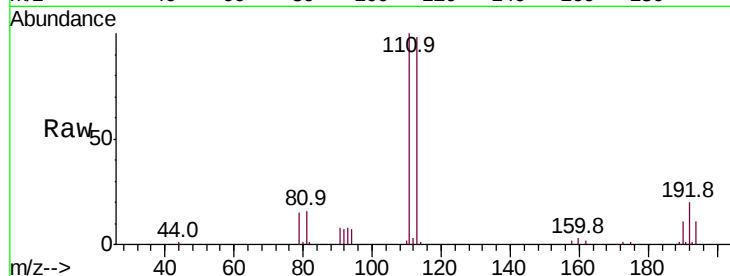




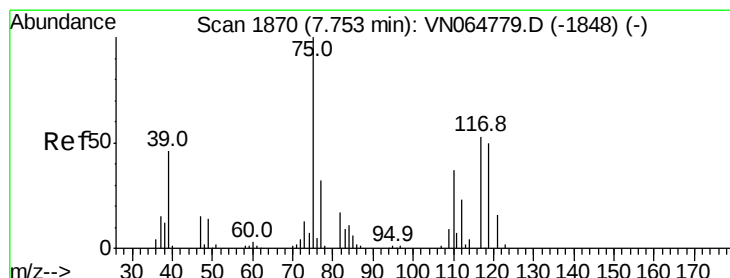
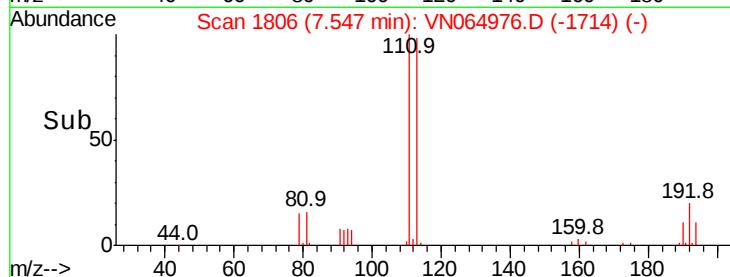
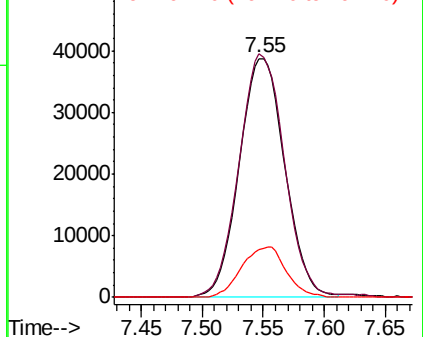
#35
 Dibromofluoromethane
 Concen: 51.032 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#13

Tot Ion:113 Resp: 99831
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.6 122.4
 192 20.7 16.2 24.2

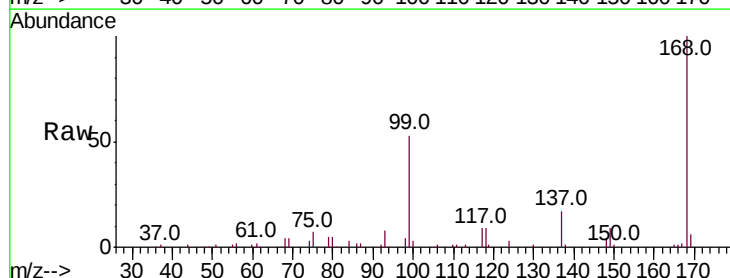


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

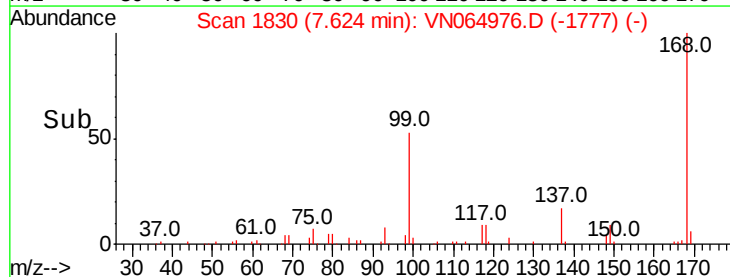
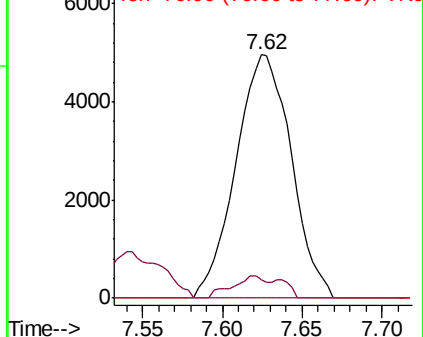


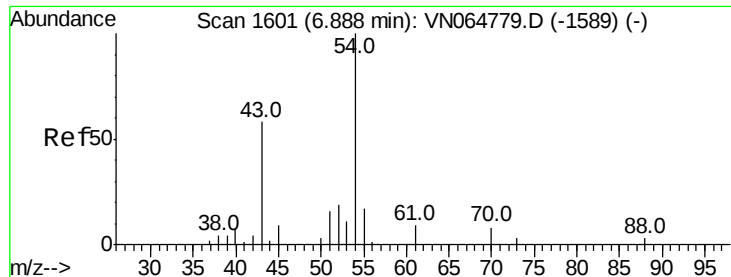
#36
 1,1-Dichloropropene
 Concen: 3.888 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

Tgt Ion: 75 Resp: 11781
 Ion Ratio Lower Upper
 75 100
 110 5.8 17.8 53.3#
 77 0.0 25.0 37.4#



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

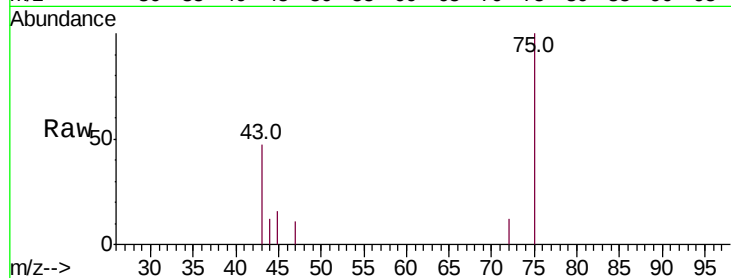




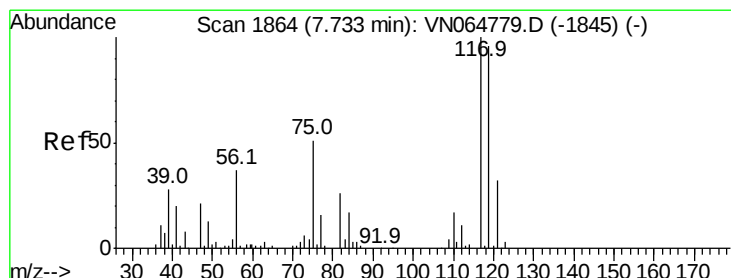
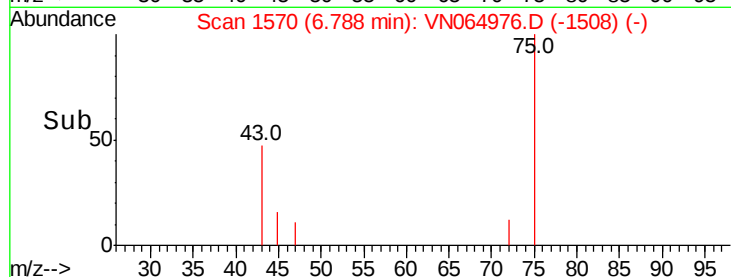
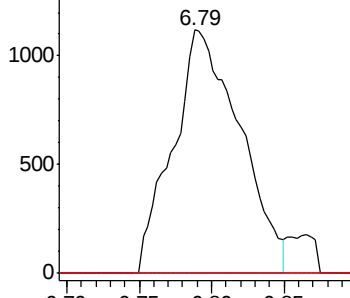
#37
Ethyl Acetate
Concen: 1.234 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.10 min
Lab File: VN064976.D
Acq: 8 Dec 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#13

Tot Ion: 43 Resp: 3601
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#

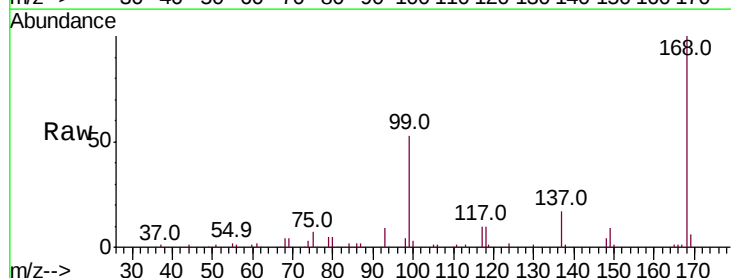


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

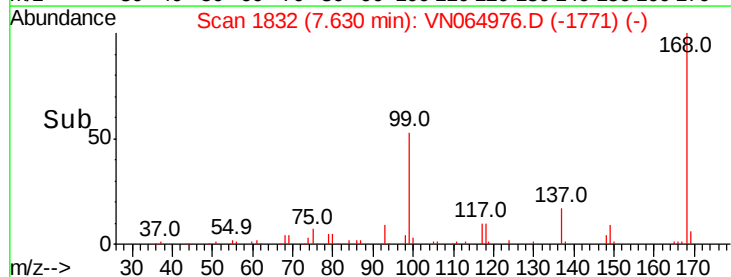
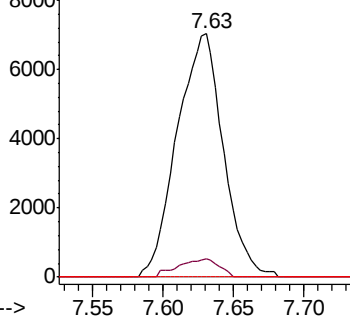


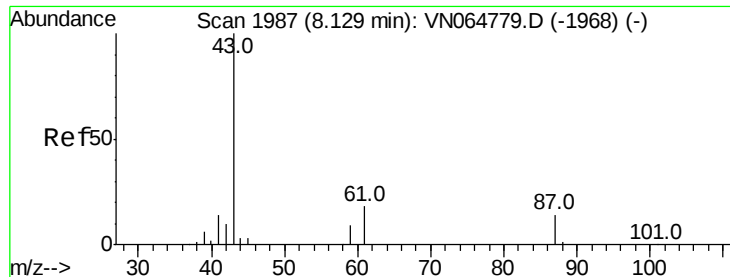
#38
Carbon Tetrachloride
Concen: 5.109 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064976.D
Acq: 8 Dec 2020 17:50

Tgt Ion: 117 Resp: 16108
Ion Ratio Lower Upper
117 100
119 7.7 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: 3.960 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

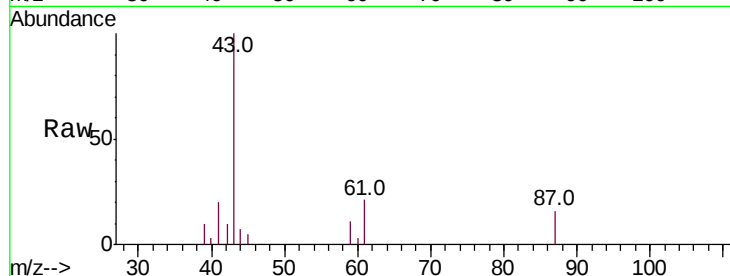
Tot Ion: 43 Resp: 18598

Ion Ratio Lower Upper

43 100

61 18.1 17.2 25.8

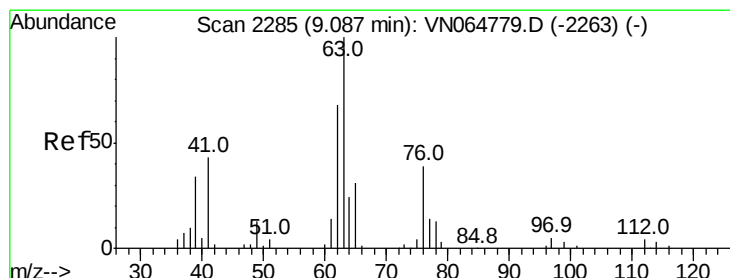
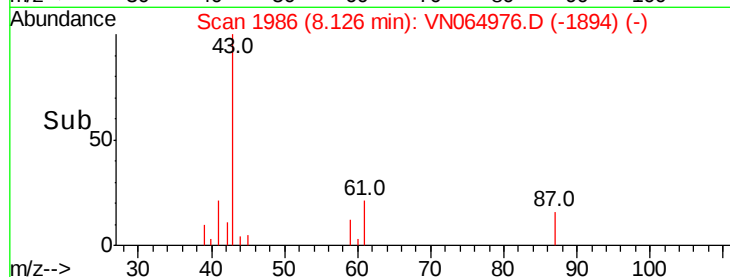
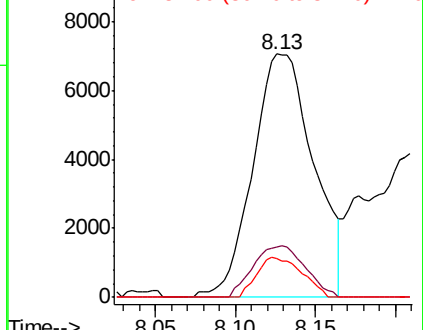
87 12.2 11.4 17.0



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: 0.438 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064976.D

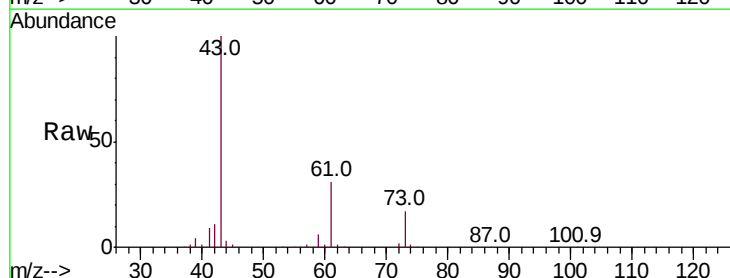
Acq: 8 Dec 2020 17:50

Tgt Ion: 63 Resp: 1054

Ion Ratio Lower Upper

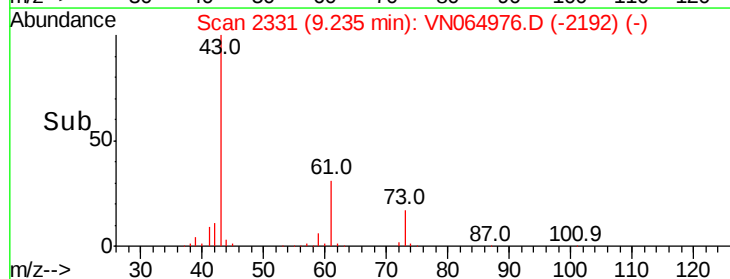
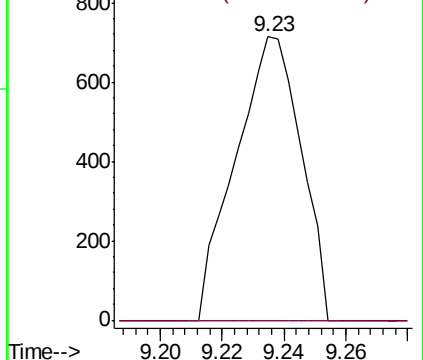
63 100

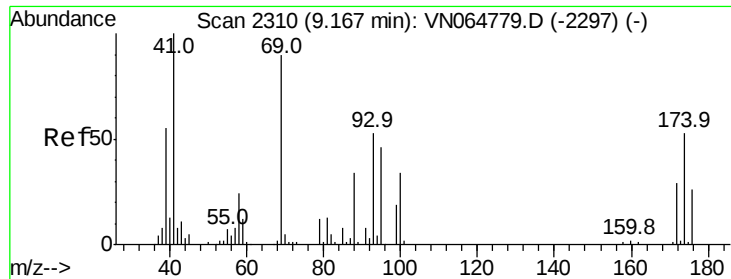
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

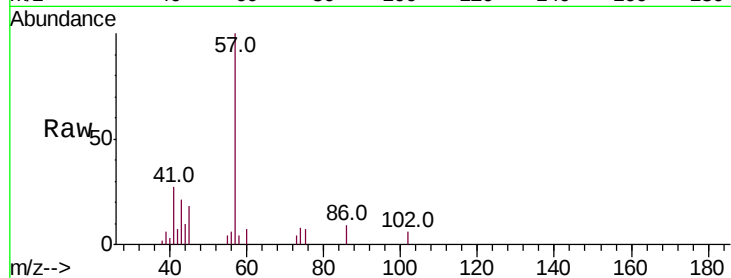




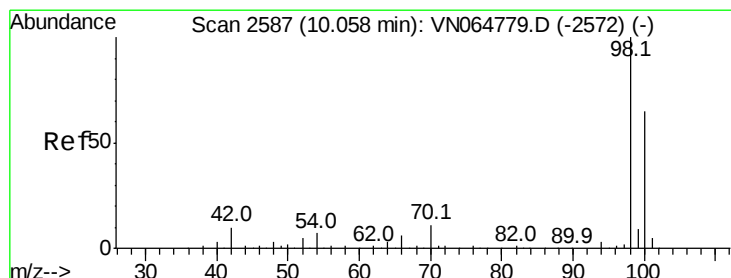
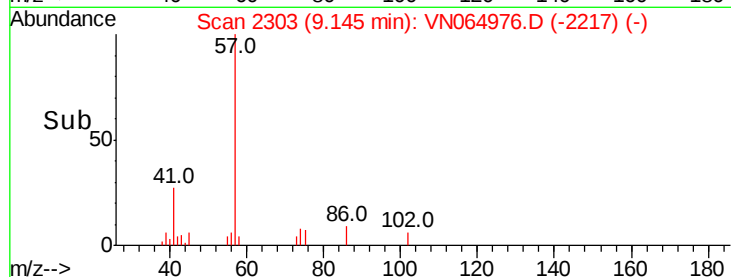
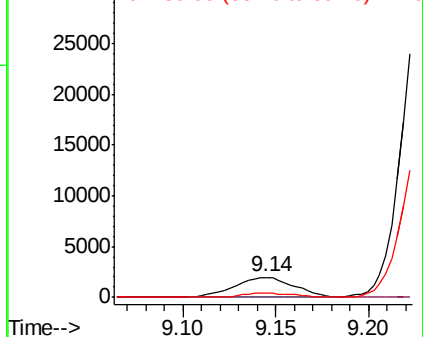
#48
Methvl methacrylate
Concen: 1.943 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064976.D
Acq: 8 Dec 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#13

Tot Ion: 41 Resp: 4361
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

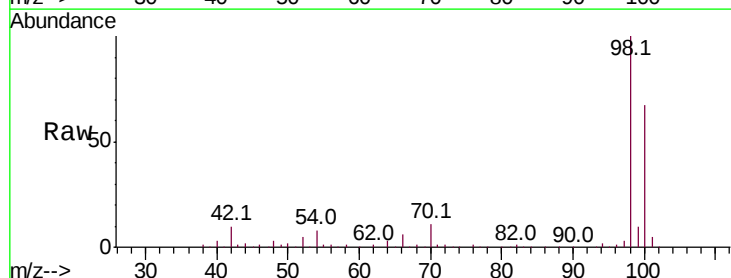


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

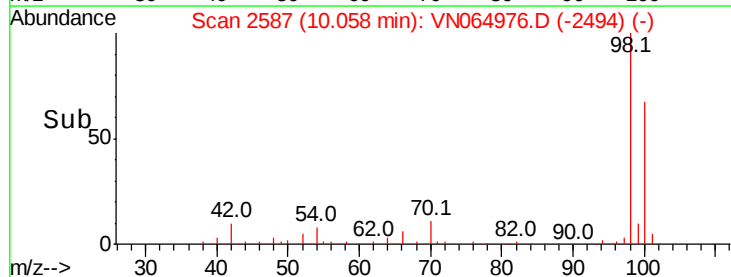
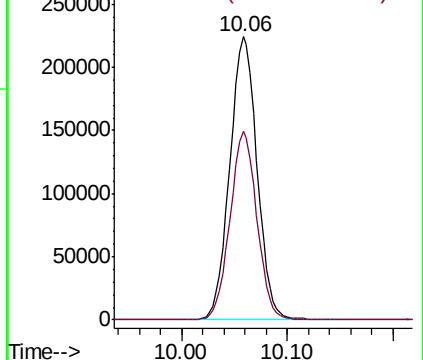


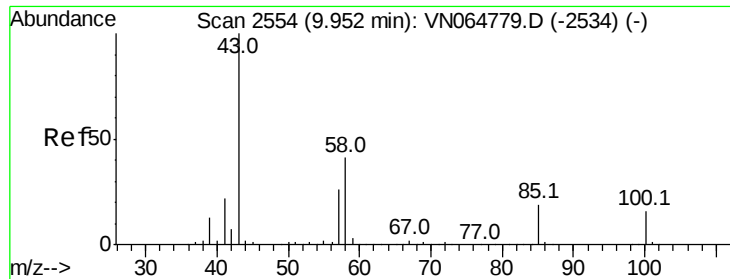
#50
Toluene-d8
Concen: 50.340 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064976.D
Acq: 8 Dec 2020 17:50

Tgt Ion: 98 Resp: 402367
Ion Ratio Lower Upper
98 100
100 65.6 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: 0.943 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

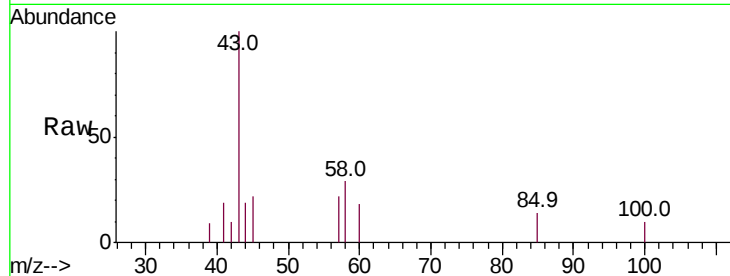
PB133456ZHE#13

Tot Ion: 43 Resp: 2660

Ion Ratio Lower Upper

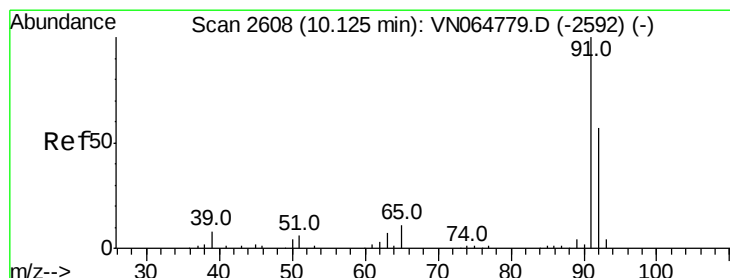
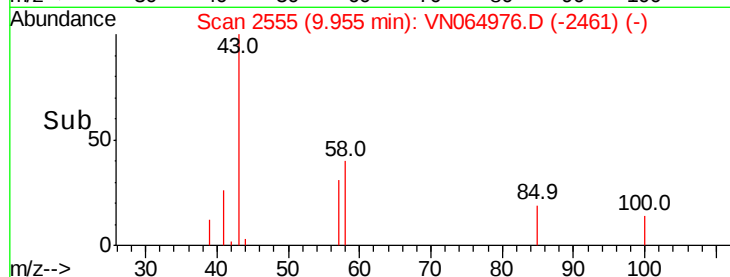
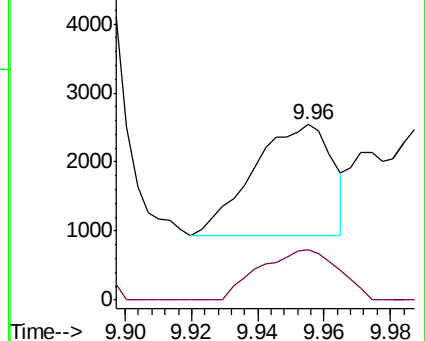
43 100

58 45.7 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.247 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064976.D

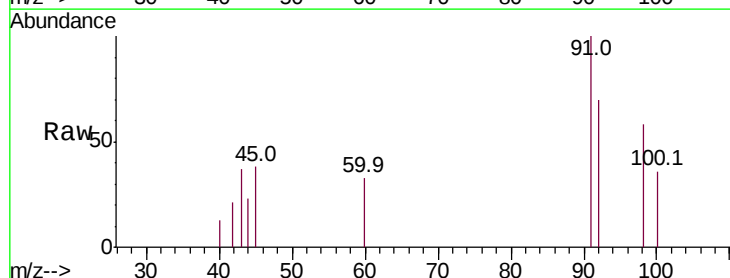
Acq: 8 Dec 2020 17:50

Tgt Ion: 92 Resp: 1410

Ion Ratio Lower Upper

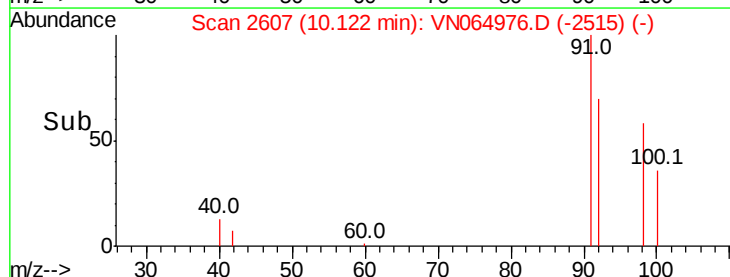
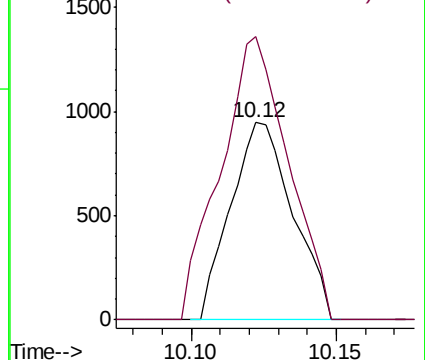
92 100

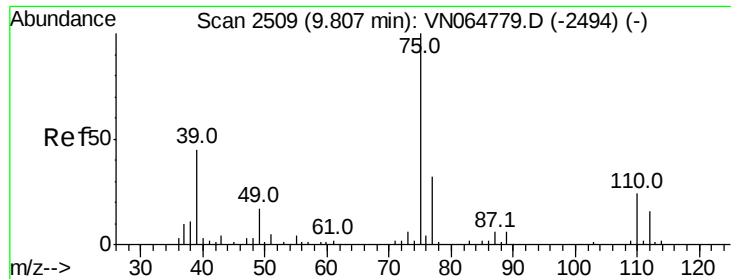
91 156.6 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 7.598 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

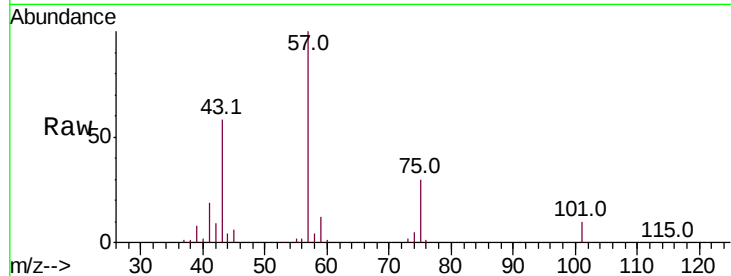
Tot Ion: 75 Resp: 29322

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

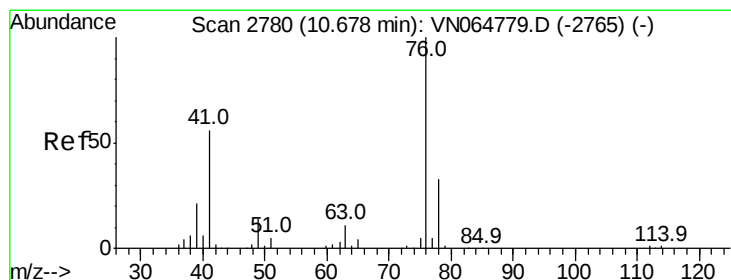
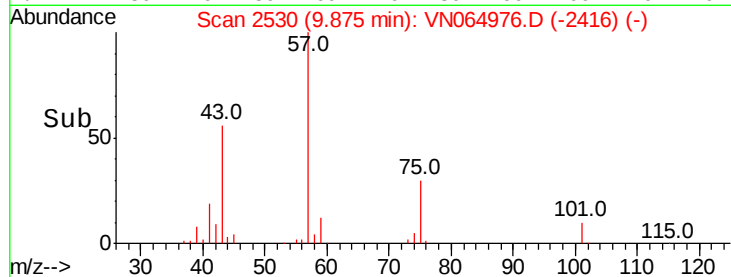
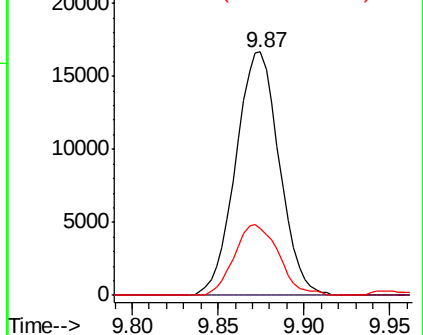
39 27.3 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 4.472 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064976.D

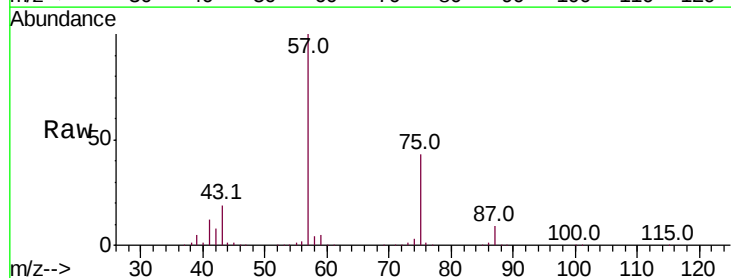
Acq: 8 Dec 2020 17:50

Tgt Ion: 76 Resp: 17346

Ion Ratio Lower Upper

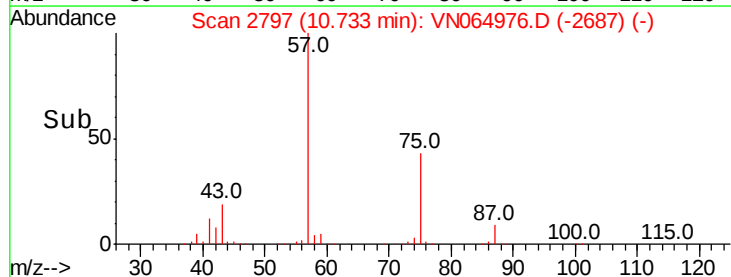
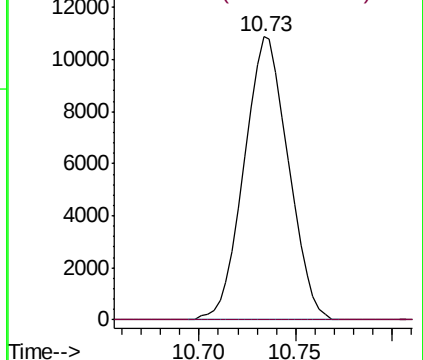
76 100

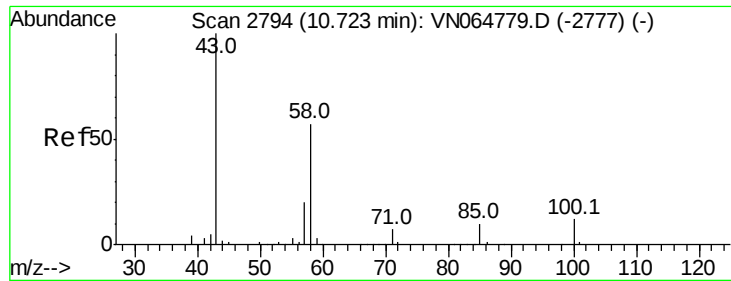
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 108.176 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

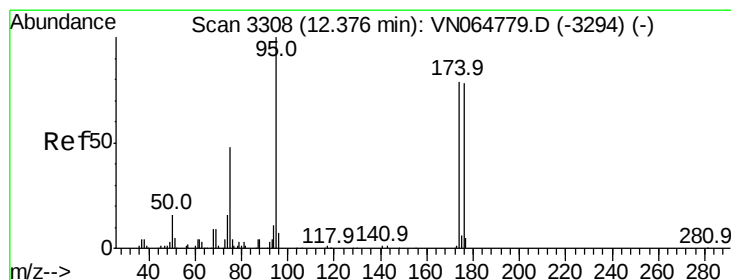
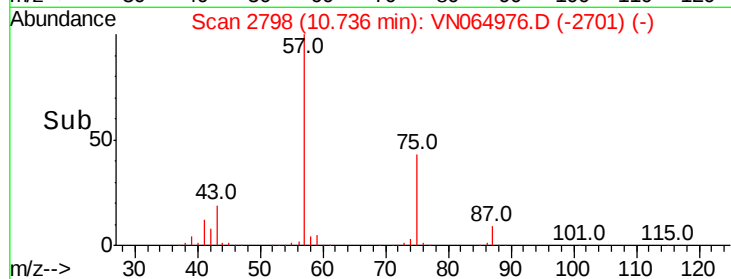
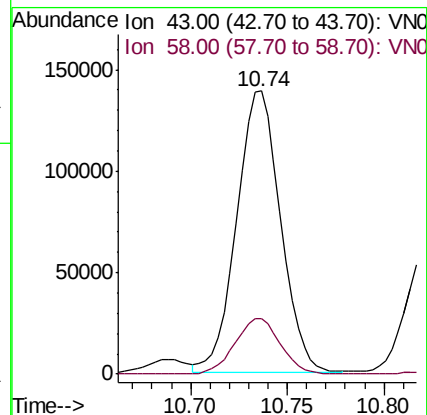
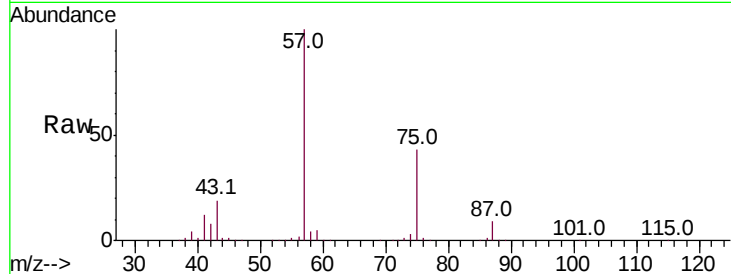
PB133456ZHE#13

Tot Ion: 43 Resp: 219532

Ion Ratio Lower Upper

43 100

58 20.5 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 52.256 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

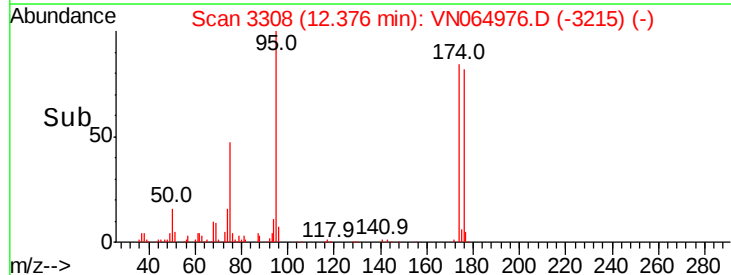
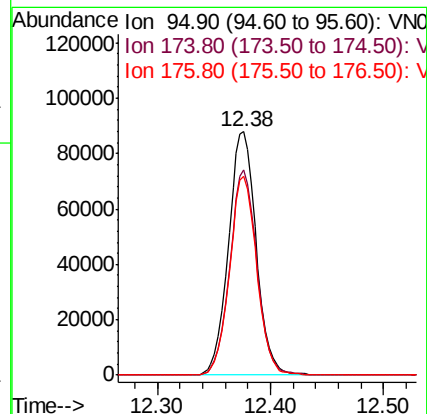
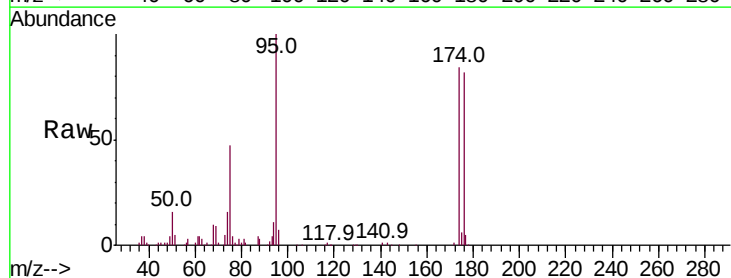
Tgt Ion: 95 Resp: 149481

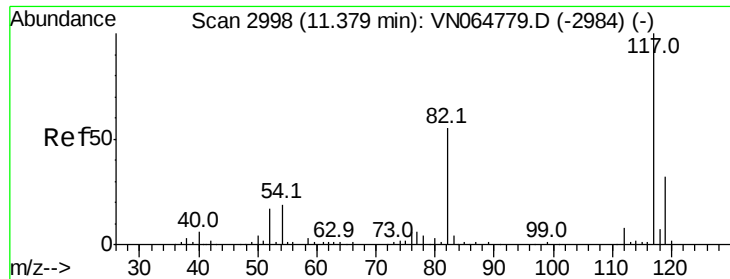
Ion Ratio Lower Upper

95 100

174 82.4 0.0 160.4

176 80.2 0.0 158.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

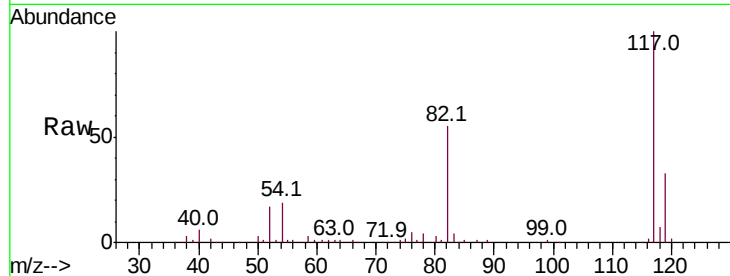
Tot Ion:117 Resp: 336774

Ion Ratio Lower Upper

117 100

82 54.8 44.2 66.2

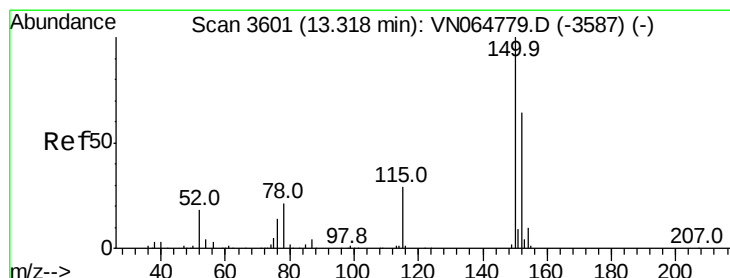
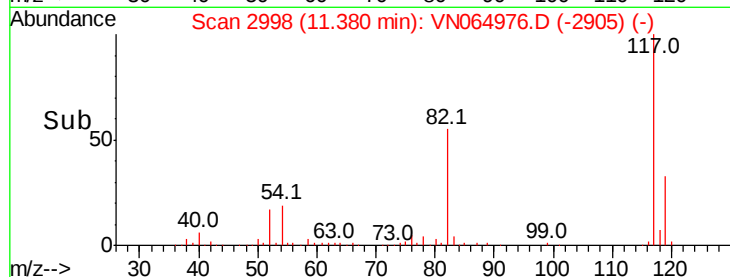
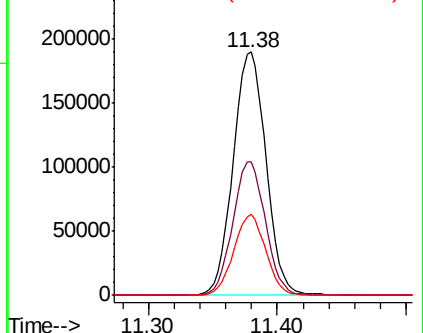
119 33.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

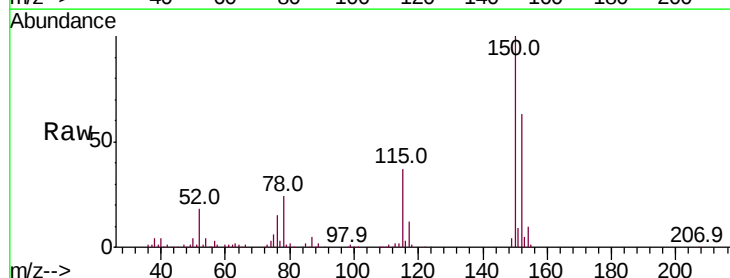
Tgt Ion:152 Resp: 139245

Ion Ratio Lower Upper

152 100

115 58.2 29.7 89.1

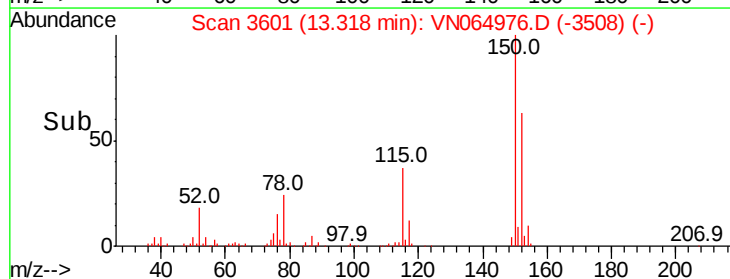
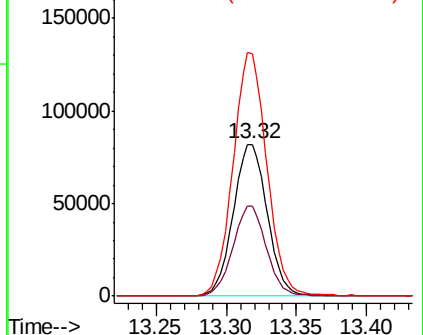
150 158.7 0.0 350.6

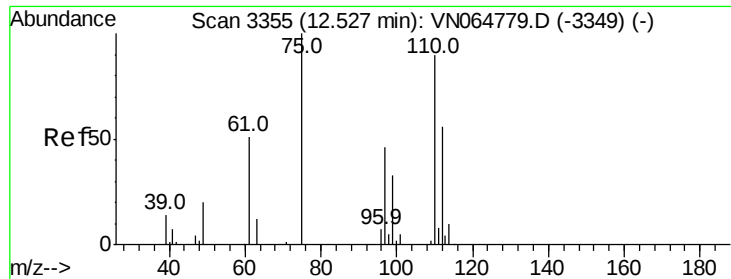


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

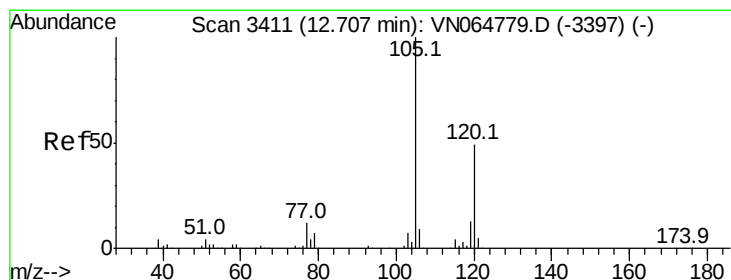
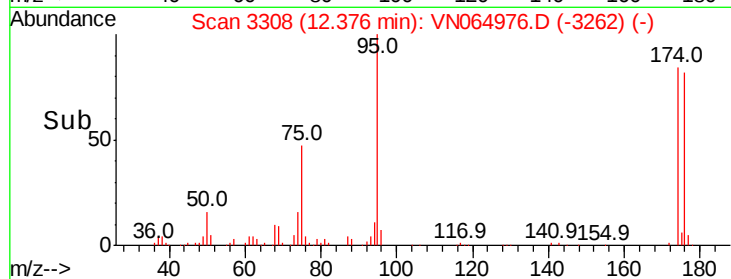
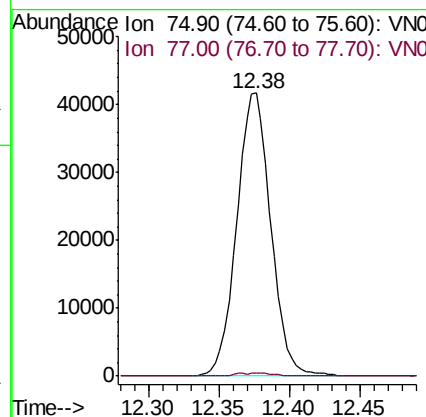
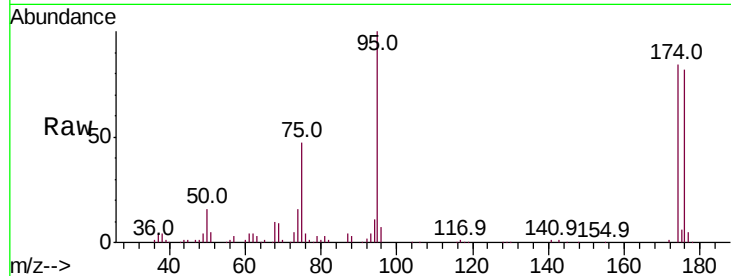




#76
 1,2,3-Trichloropropane
 Concen: 23.476 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

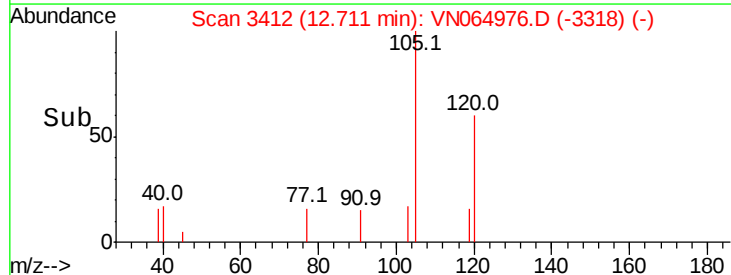
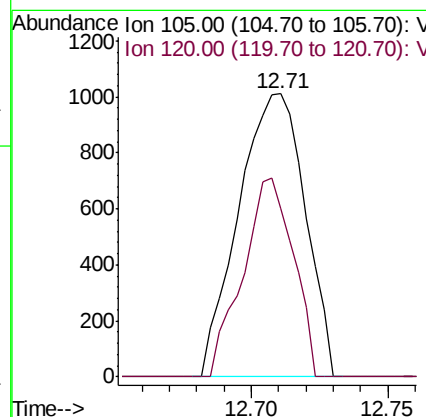
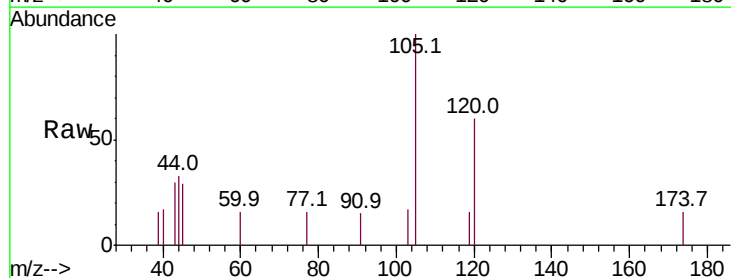
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#13

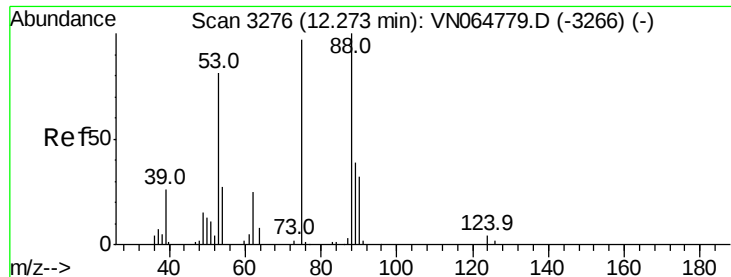
Tot Ion: 75 Resp: 70400
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.213 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN064976.D
 Acq: 8 Dec 2020 17:50

Tgt Ion: 105 Resp: 1711
 Ion Ratio Lower Upper
 105 100
 120 53.2 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 64.343 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064976.D

Acq: 8 Dec 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#13

Tot Ion: 75 Resp: 70400

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

