

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064979.D
 Acq On : 8 Dec 2020 19:02
 Operator : JC/MD
 Sample : PB133456ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#16

Quant Time: Dec 09 06:54:12 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	7.63	168	164691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	315747	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	328810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	138995	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	103551	54.08	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	108.16%
35) Dibromofluoromethane	7.55	113	96547	51.10	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.20%
50) Toluene-d8	10.06	98	388813	50.37	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.74%
62) 4-Bromofluorobenzene	12.37	95	147369	53.34	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	106.68%

Target Compounds

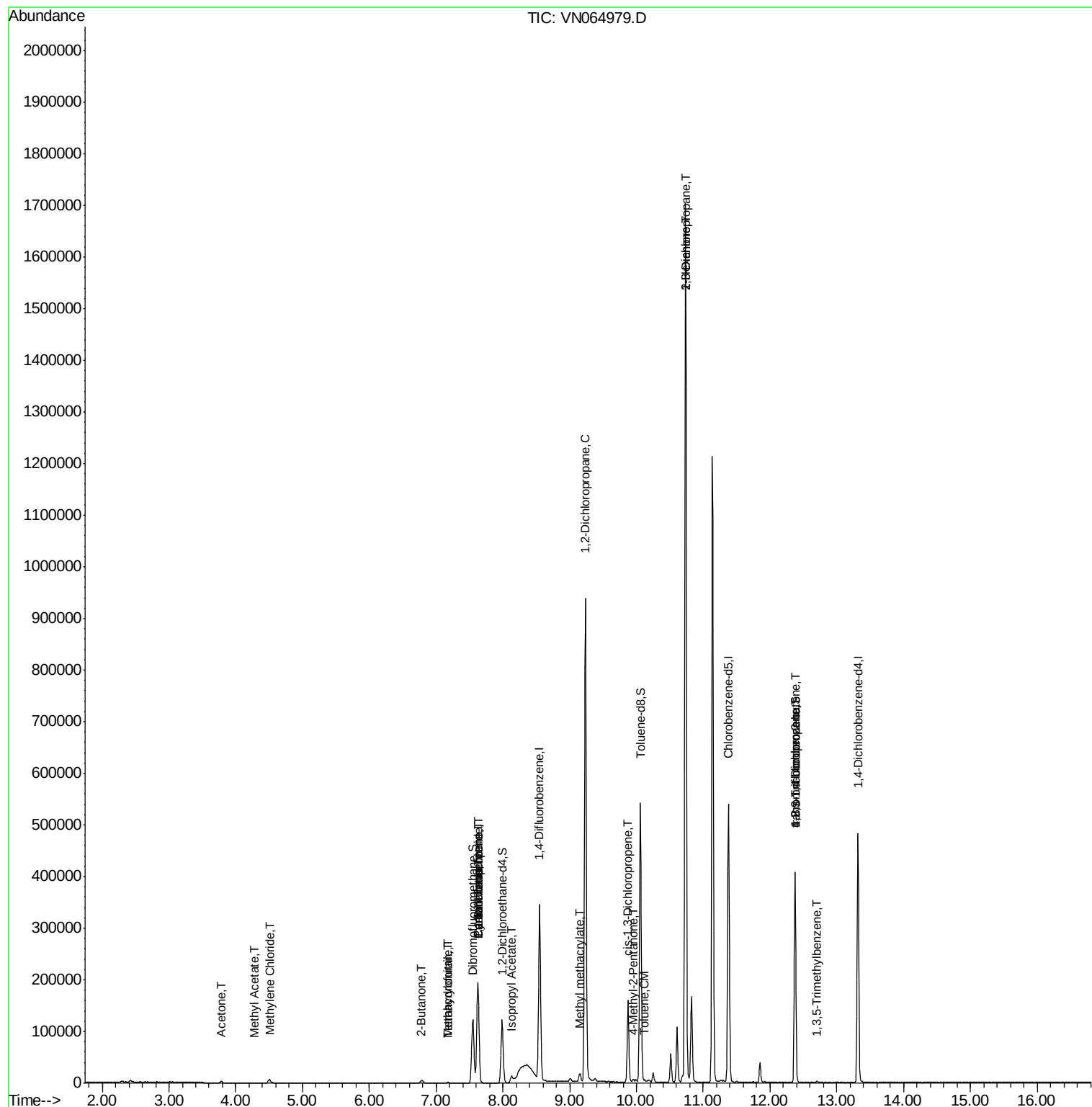
					Qvalue
16) Acetone	3.78	43	5468	8.688	ug/l 99
18) Methyl Acetate	4.29	43	1029	0.544	ug/l # 50
20) Methylene Chloride	4.50	84	5262	2.668	ug/l 94
25) 2-Butanone	6.79	43	2616	2.564	ug/l 98
29) Tetrahydrofuran	7.17	42	1413	2.006	ug/l # 56
31) Cyclohexane	7.62	56	2654	0.995	ug/l # 1
36) 1,1-Dichloropropene	7.62	75	11316	3.867	ug/l # 47
38) Carbon Tetrachloride	7.62	117	15203	4.992	ug/l # 16
41) Methacrylonitrile	7.16	41	380	0.292	ug/l # 19
43) Isopropyl Acetate	8.13	43	18096	3.989	ug/l # 91
45) 1,2-Dichloropropane	9.23	63	1145	0.493	ug/l # 43
48) Methyl methacrylate	9.15	41	4491	2.072	ug/l # 12
51) 4-Methyl-2-Pentanone	9.95	43	4175	1.533	ug/l 92
52) Toluene	10.13	92	1566	0.284	ug/l 89
54) cis-1,3-Dichloropropene	9.87	75	28956	7.769	ug/l # 64
57) 1,3-Dichloropropane	10.74	76	18325	4.891	ug/l # 42
59) 2-Hexanone	10.74	43	235684	120.248	ug/l # 50
76) 1,2,3-Trichloropropane	12.37	75	68817	22.990	ug/l # 100
80) 1,3,5-Trimethylbenzene	12.71	105	1891	0.235	ug/l 81
81) trans-1,4-Dichloro-2-buten	12.37	75	68817	63.010	ug/l # 15

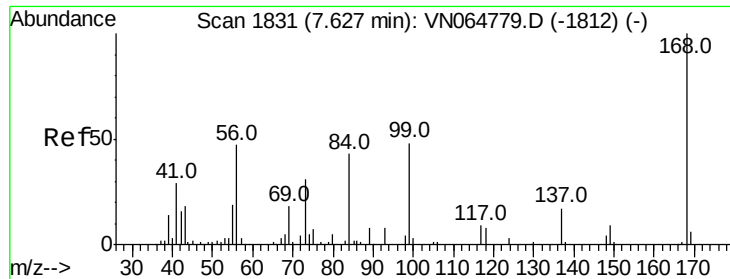
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

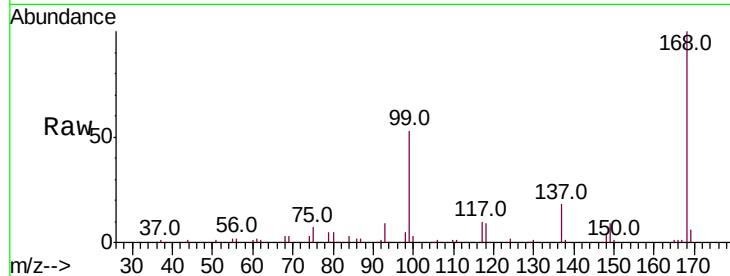
PB133456ZHE#16

Tot Ion:168 Resp: 164691

Ion Ratio Lower Upper

168 100

99 53.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

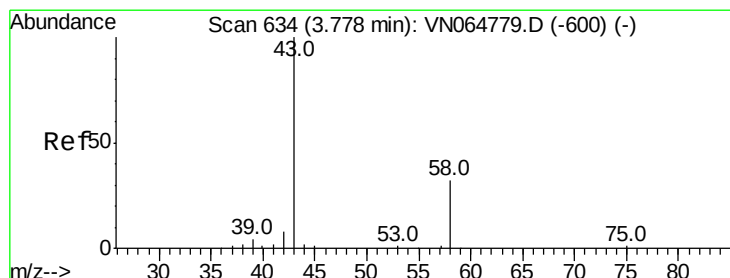
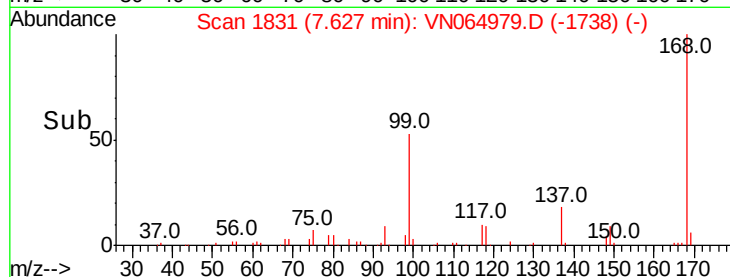
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 8.688 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064979.D

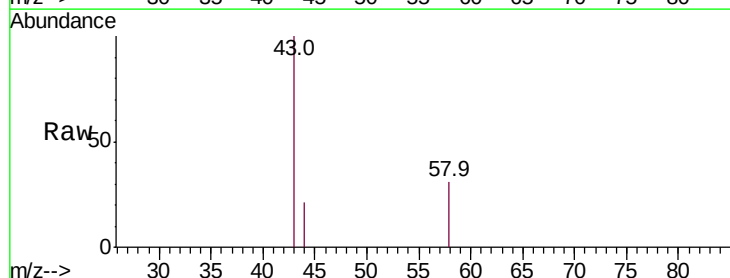
Acq: 8 Dec 2020 19:02

Tgt Ion: 43 Resp: 5468

Ion Ratio Lower Upper

43 100

58 31.3 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2000

1500

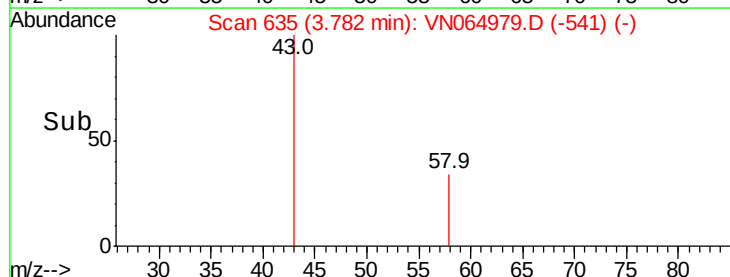
1000

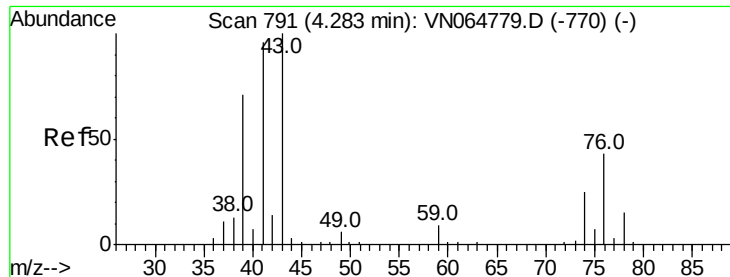
500

0

3.70 3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 0.544 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

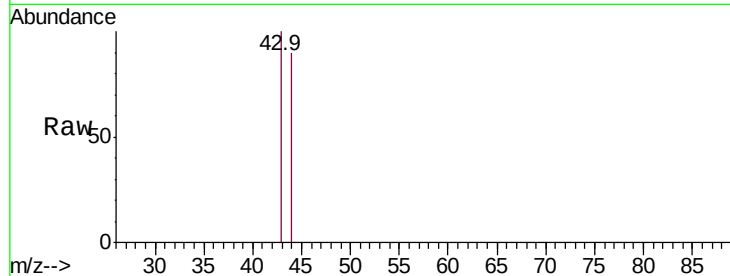
PB133456ZHE#16

Tot Ion: 43 Resp: 1029

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

400

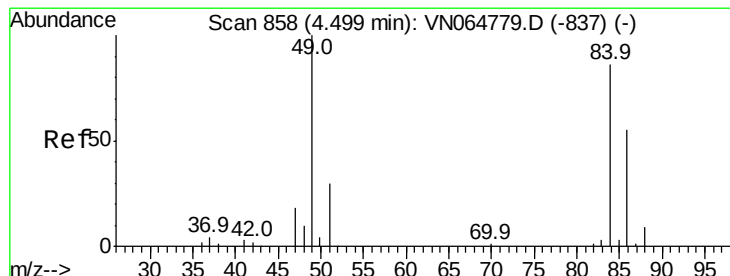
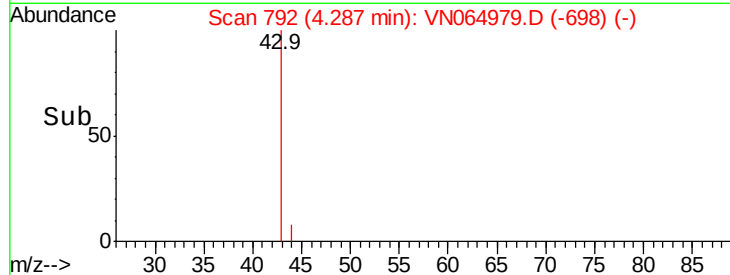
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 2.668 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Tgt Ion: 84 Resp: 5262

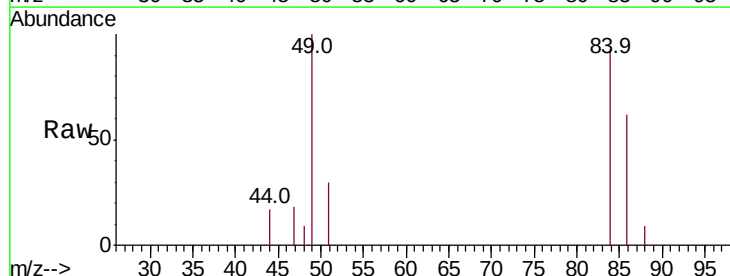
Ion Ratio Lower Upper

84 100

49 108.0 93.4 140.0

51 32.0 28.2 42.4

86 66.8 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

3000

2500

2000

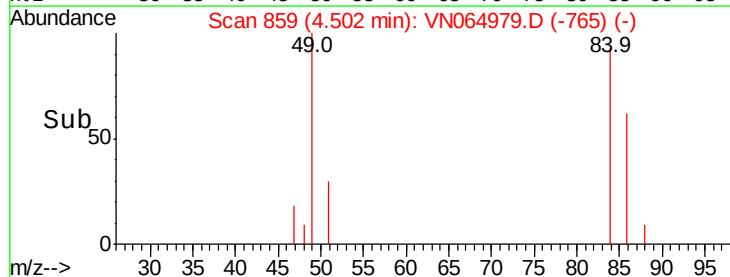
1500

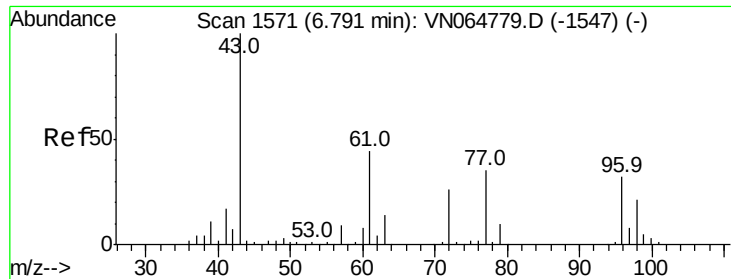
1000

500

0

Time-->

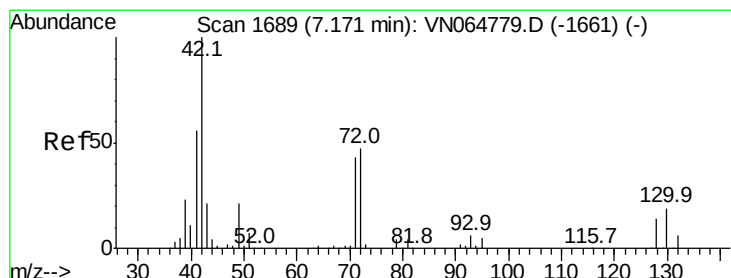
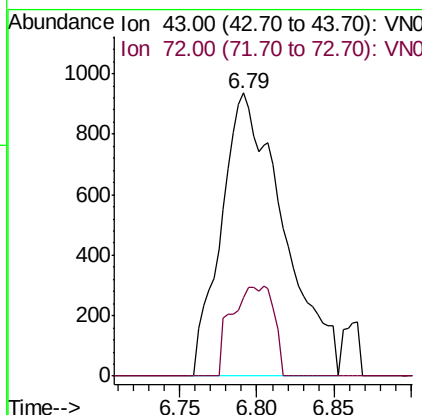
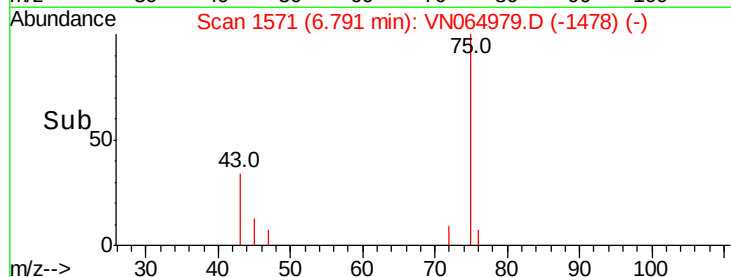
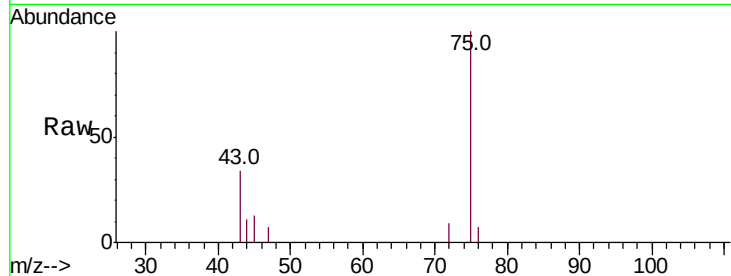




#25
2-Butanone
Concen: 2.564 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

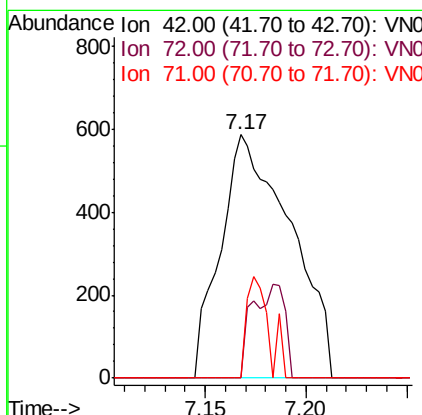
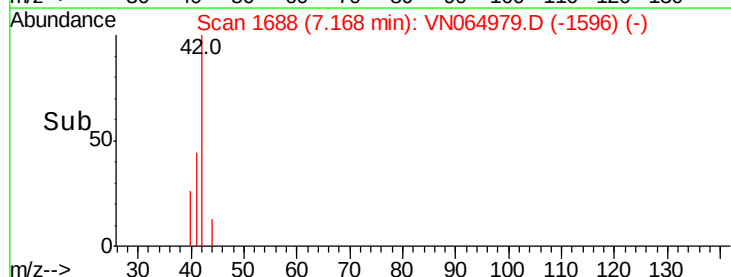
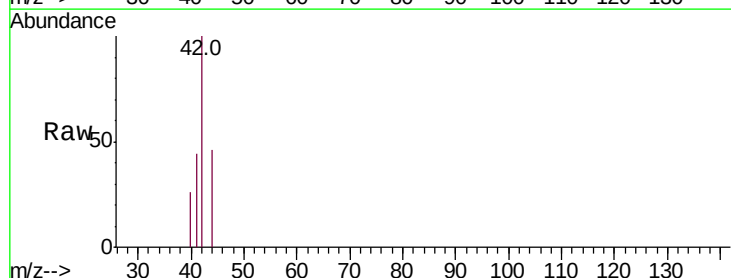
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#16

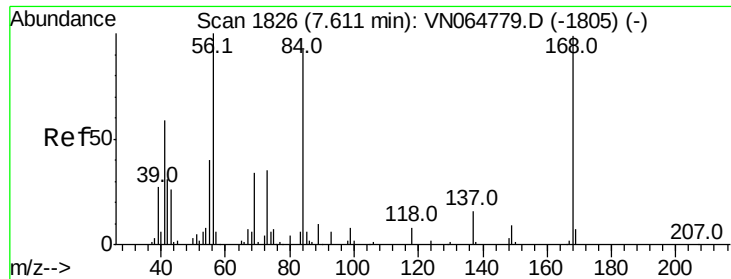
Tot Ion: 43 Resp: 2616
Ion Ratio Lower Upper
43 100
72 27.6 21.0 31.6



#29
Tetrahydrofuran
Concen: 2.006 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

Tgt Ion: 42 Resp: 1413
Ion Ratio Lower Upper
42 100
72 17.9 36.6 54.8#
71 13.2 33.6 50.4#

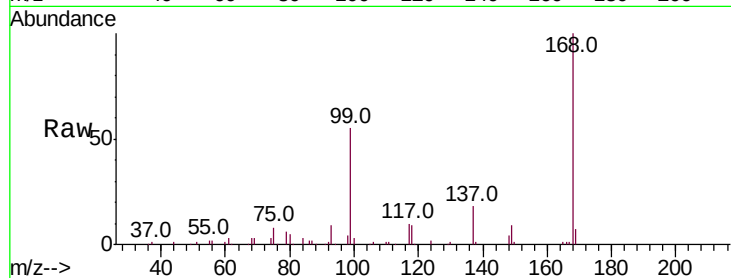




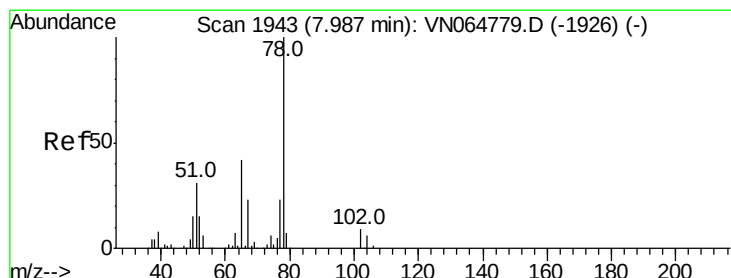
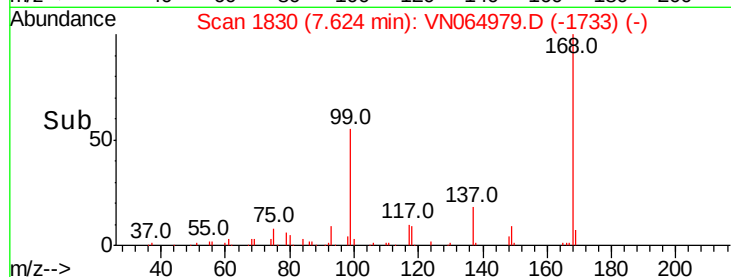
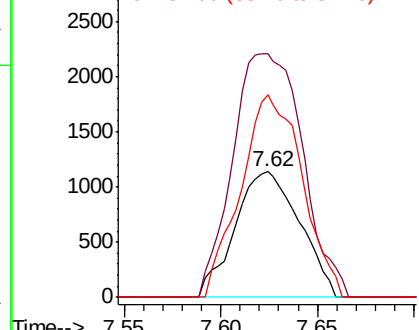
#31
Cyclohexane
Concen: 0.995 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#16

Tot Ion: 56 Resp: 2654
Ion Ratio Lower Upper
56 100
69 194.1 27.5 41.3#
84 161.3 73.9 110.9#

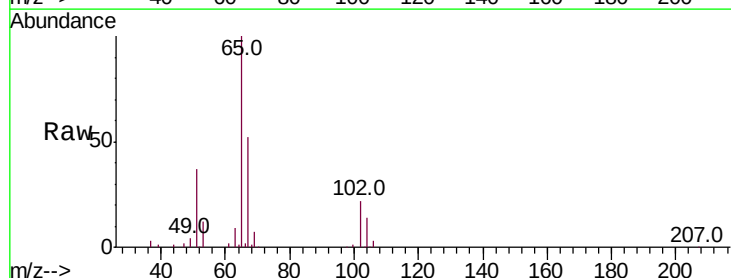


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

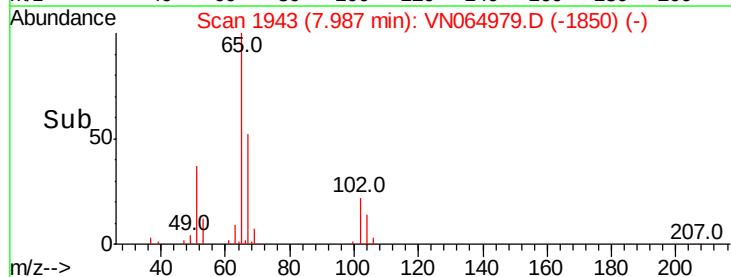
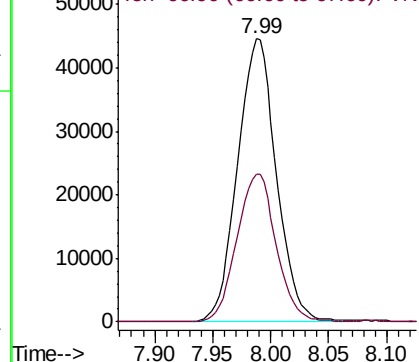


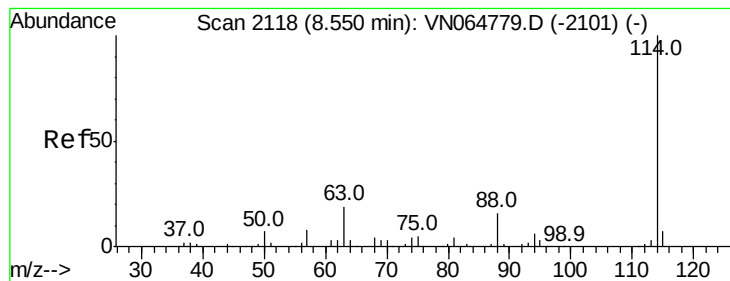
#33
1,2-Dichloroethane-d4
Concen: 54.084 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

Tgt Ion: 65 Resp: 103551
Ion Ratio Lower Upper
65 100
67 52.8 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: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#16

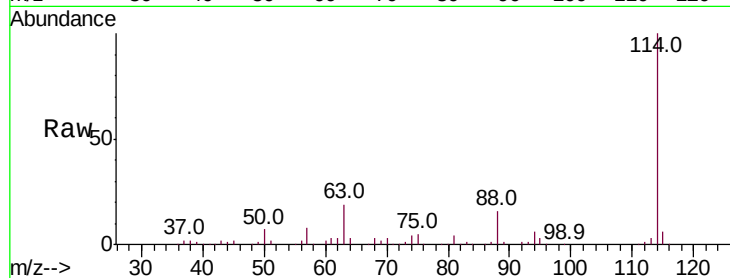
Tot Ion:114 Resp: 315747

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

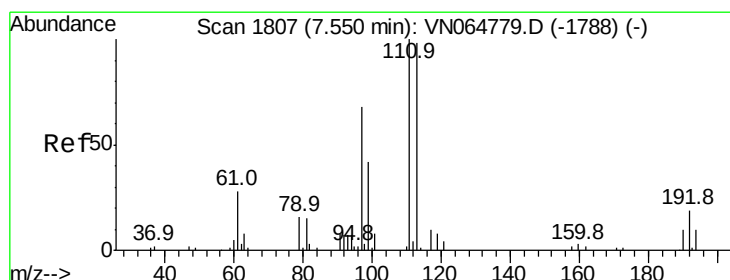
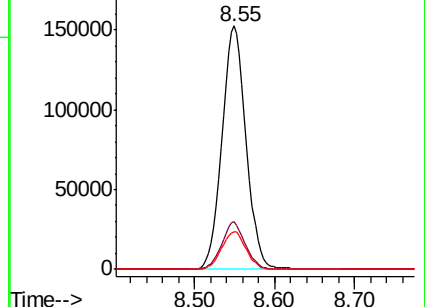
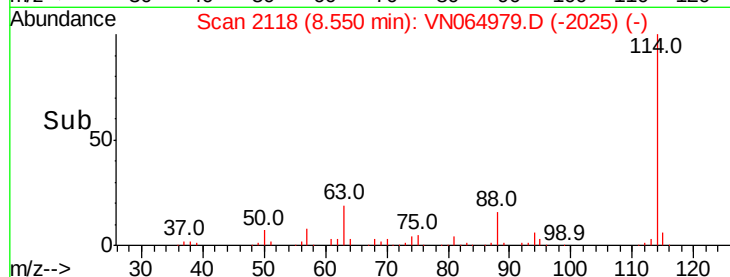
88 15.6 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.101 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

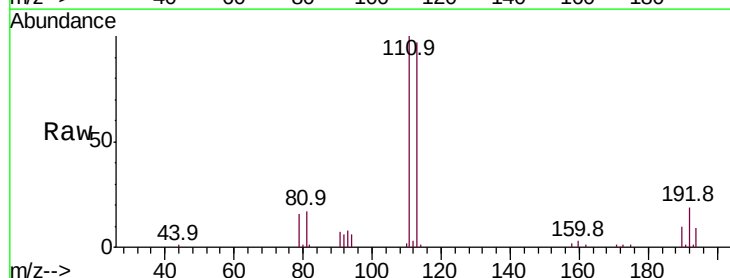
Tgt Ion:113 Resp: 96547

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

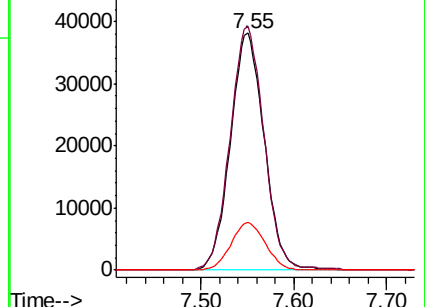
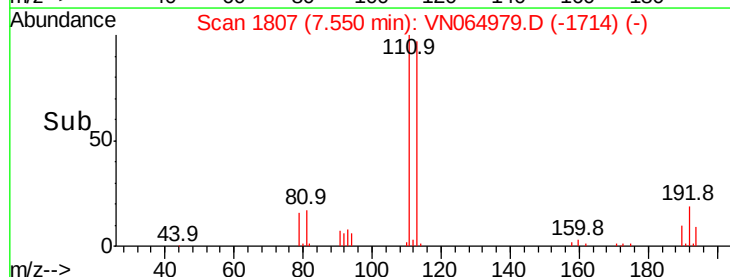
192 20.2 16.2 24.2

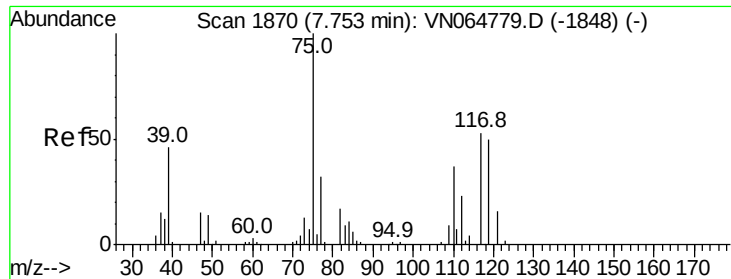


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

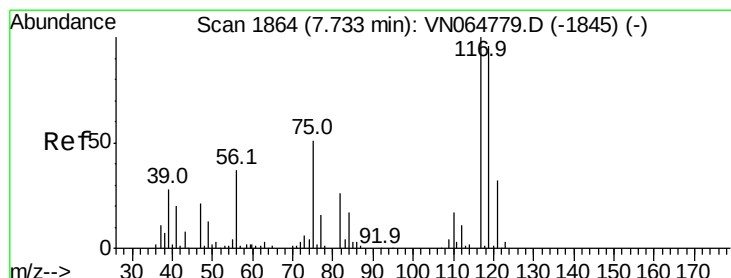
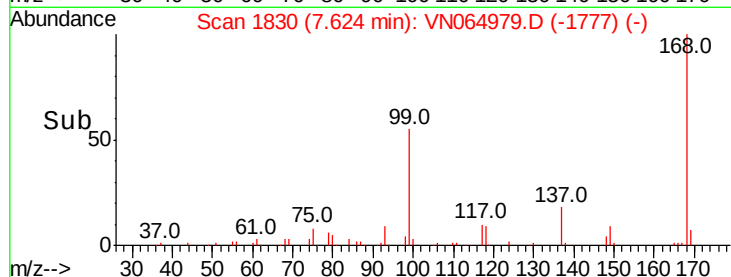
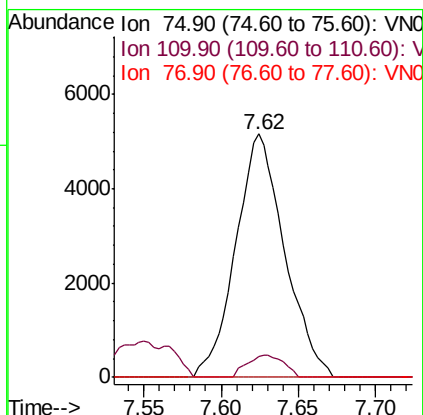
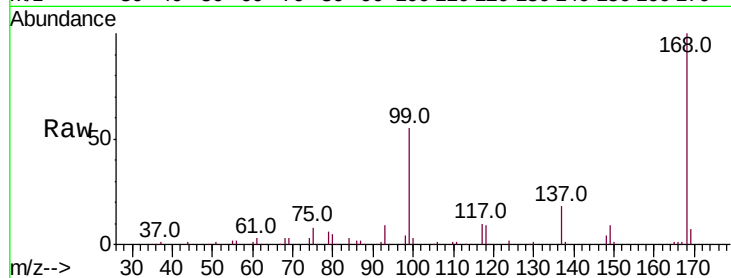




#36
 1,1-Dichloropropene
 Concen: 3.867 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

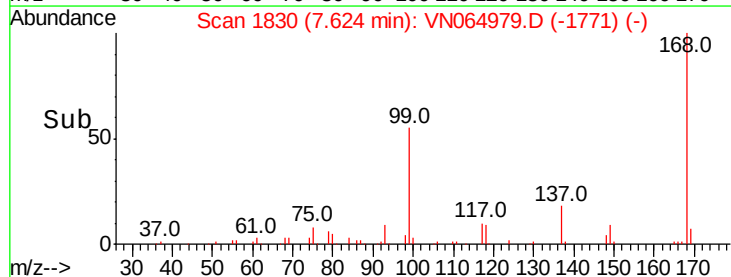
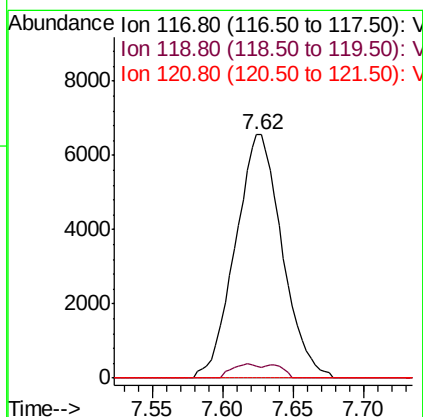
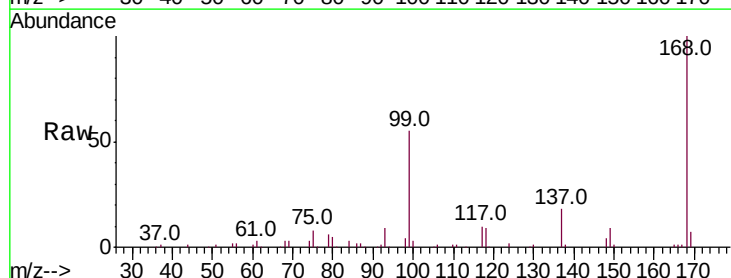
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 MSVOA_N
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 PB133456ZHE#16

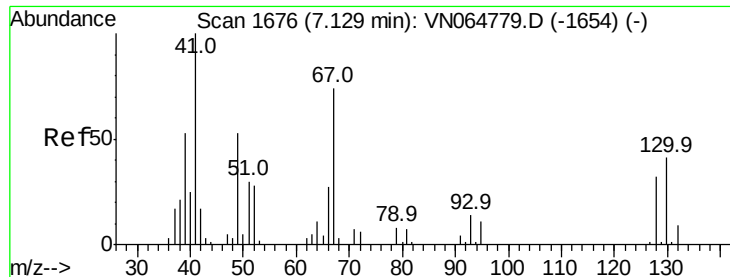
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.8	17.8	53.3#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.992 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.7	115.1#
121	0.0	25.4	38.2#

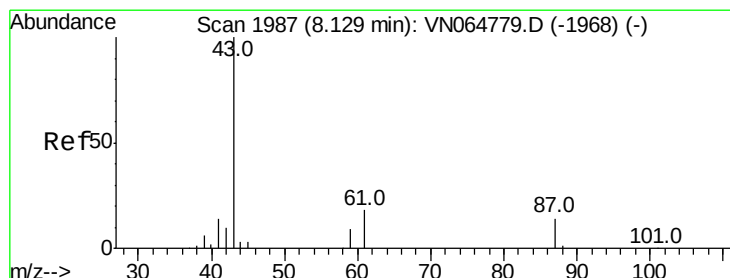
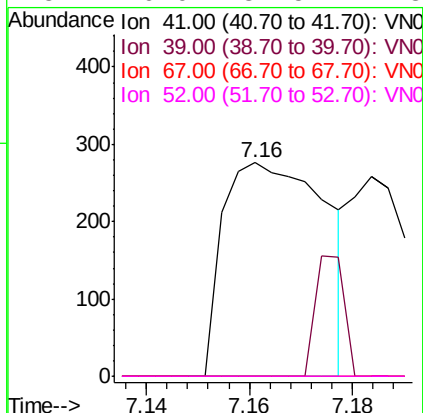
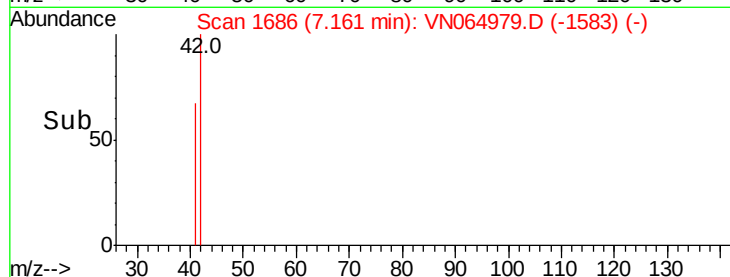
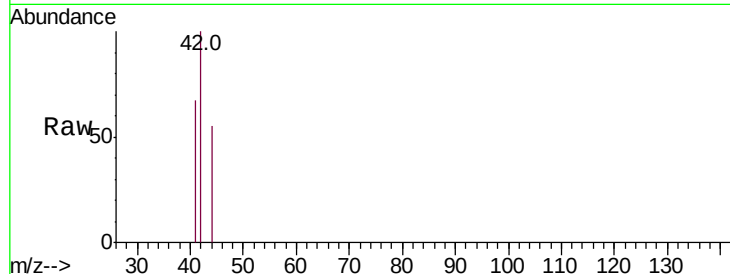




#41
Methacrylonitrile
Concen: 0.292 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

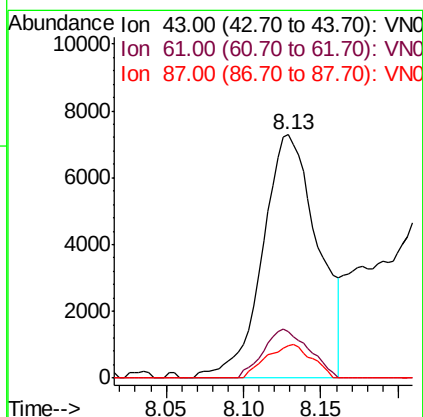
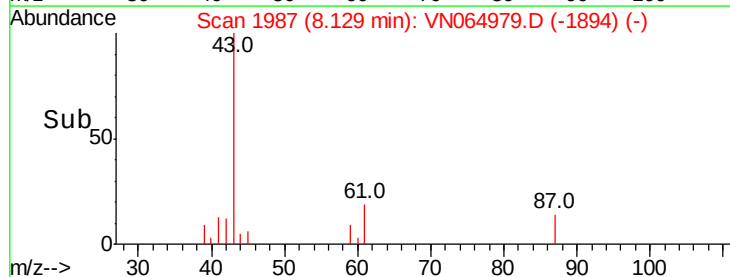
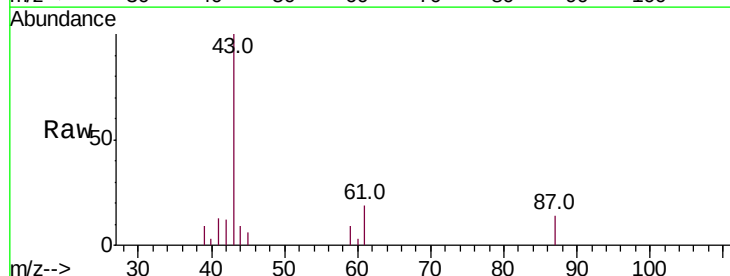
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#16

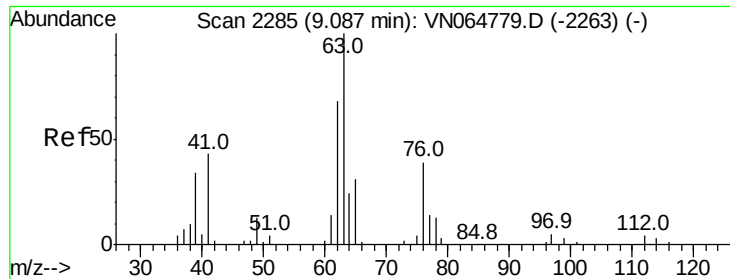
Tot Ion: 41 Resp: 380
Ion Ratio Lower Upper
41 100
39 15.8 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 3.989 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

Tgt Ion: 43 Resp: 18096
Ion Ratio Lower Upper
43 100
61 16.7 17.2 25.8#
87 11.2 11.4 17.0#

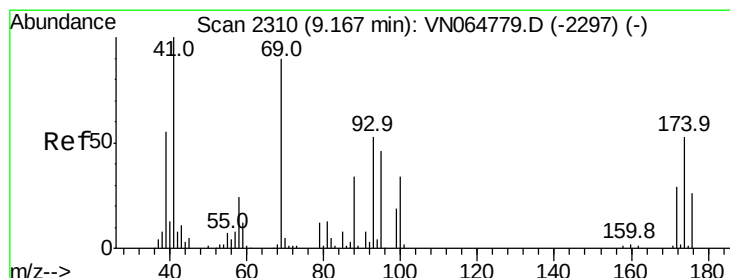
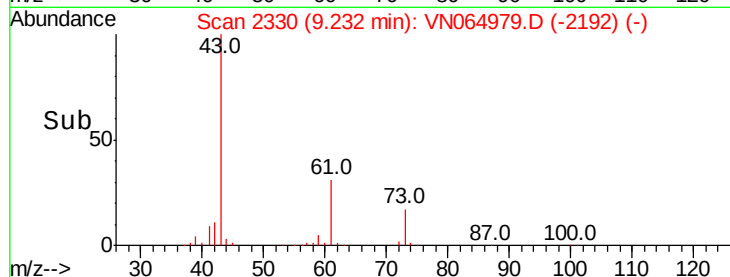
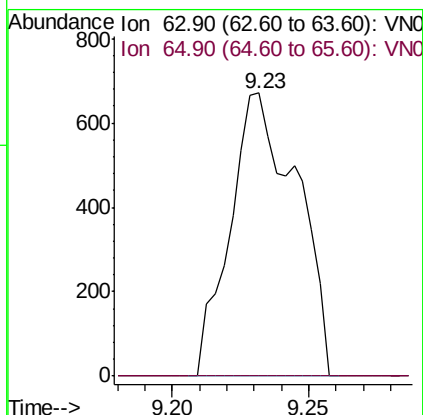
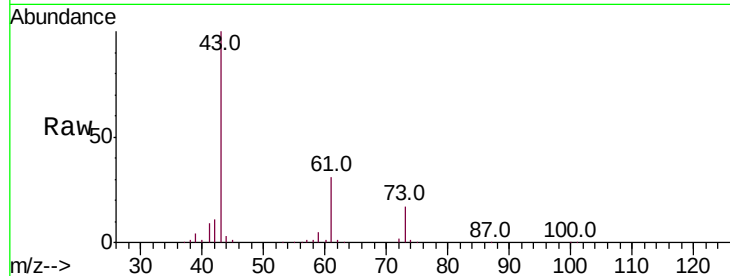




#45
 1,2-Dichloropropane
 Concen: 0.493 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

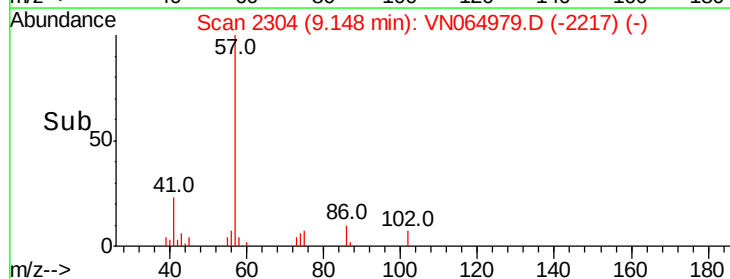
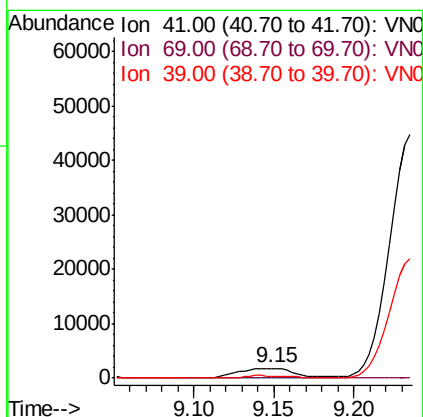
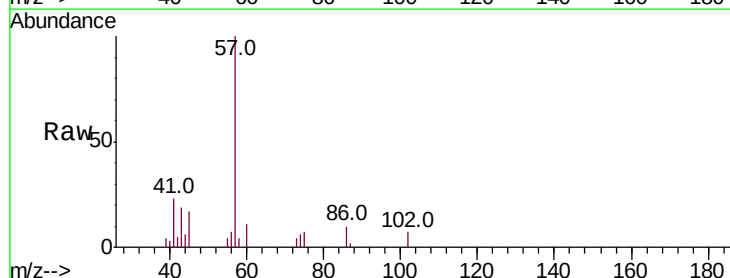
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#16

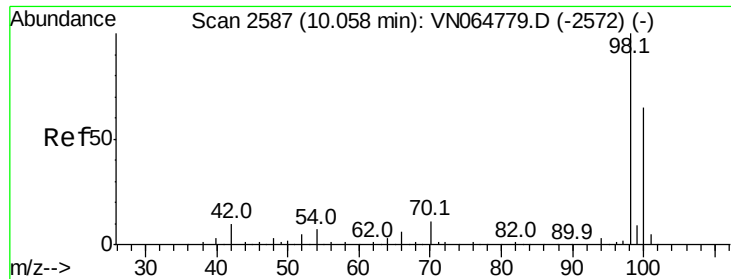
Tot Ion: 63 Resp: 1145
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 2.072 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

Tgt Ion: 41 Resp: 4491
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 50.367 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

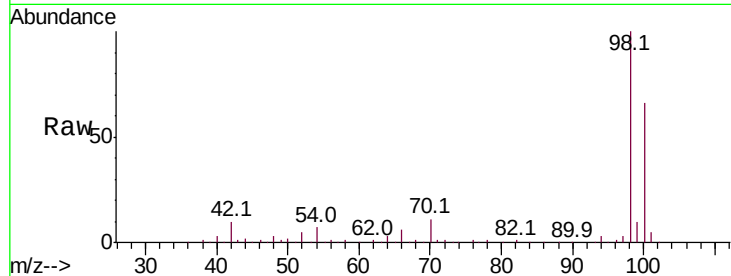
PB133456ZHE#16

Tot Ion: 98 Resp: 388813

Ion Ratio Lower Upper

98 100

100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064979.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064979.D (-2572) (-)

10.06

250000

200000

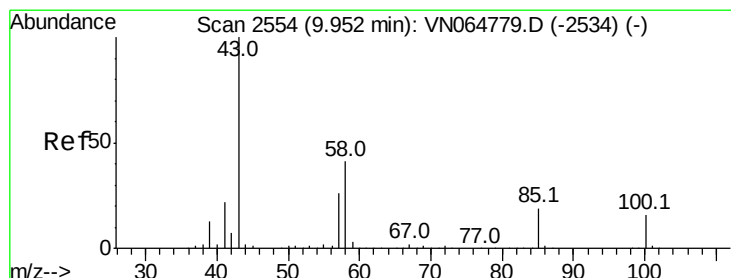
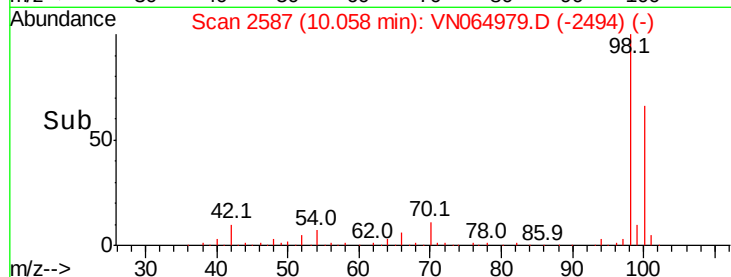
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.533 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064979.D

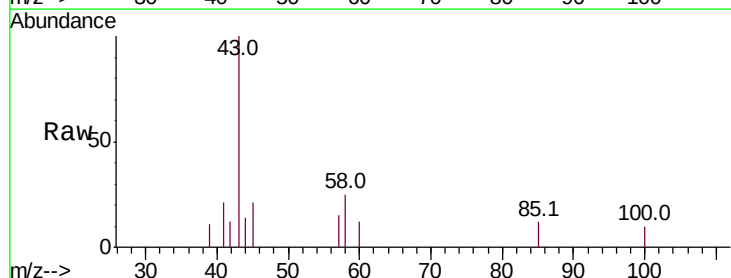
Acq: 8 Dec 2020 19:02

Tgt Ion: 43 Resp: 4175

Ion Ratio Lower Upper

43 100

58 35.2 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064979.D (-2554) (-)

Ion 58.00 (57.70 to 58.70): VN064979.D (-2554) (-)

9.95

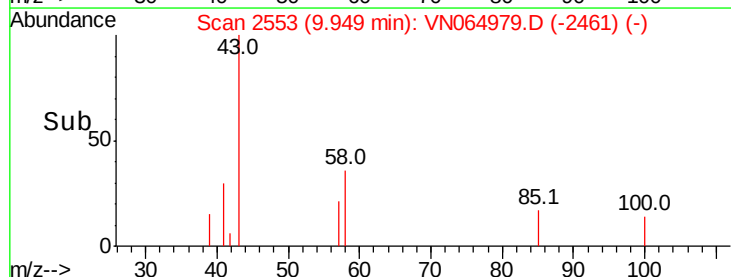
3000

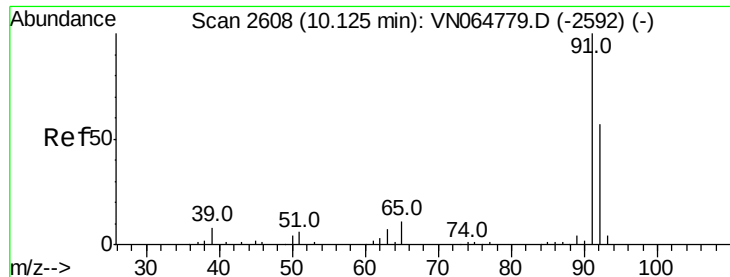
2000

1000

0

Time-->





#52

Toluene

Concen: 0.284 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

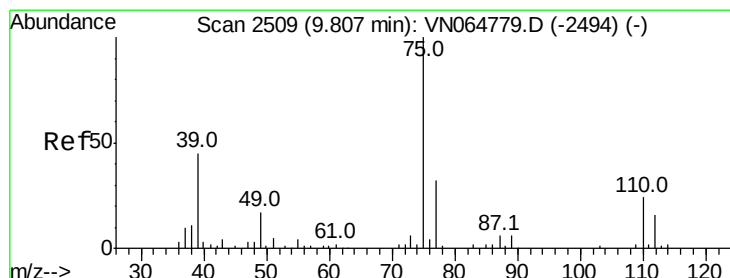
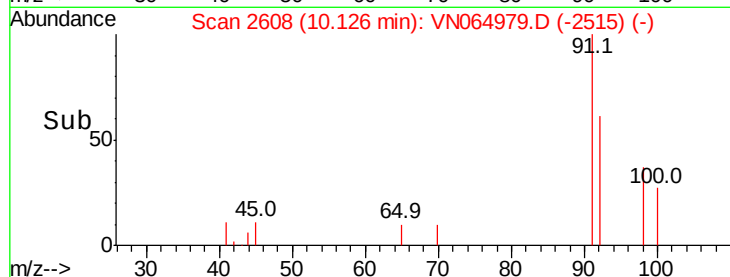
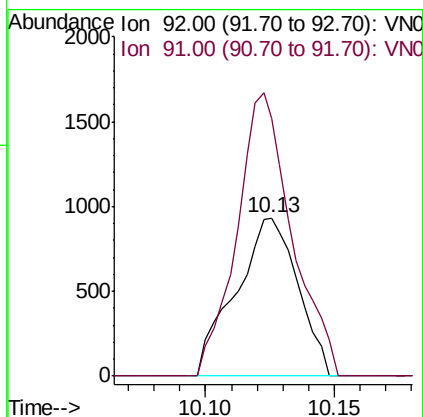
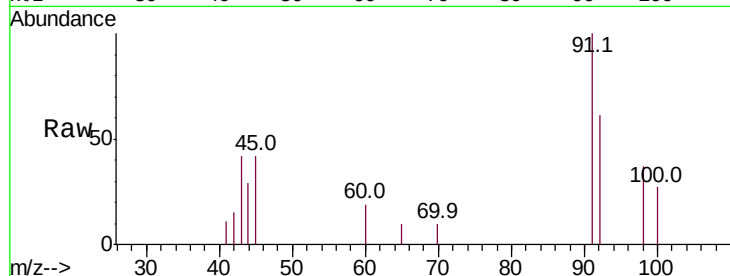
PB133456ZHE#16

Tot Ion: 92 Resp: 1566

Ion Ratio Lower Upper

92 100

91 158.7 139.1 208.7



#54

cis-1,3-Dichloropropene

Concen: 7.769 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

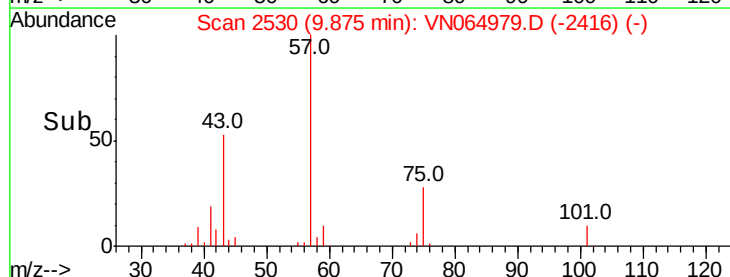
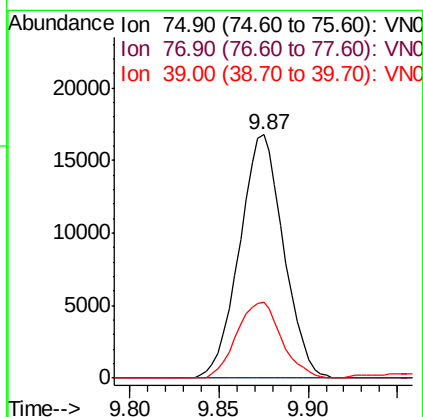
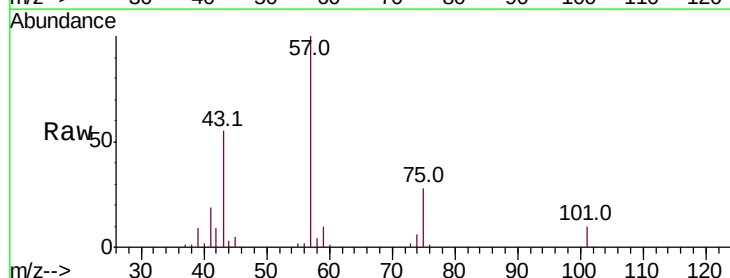
Tgt Ion: 75 Resp: 28956

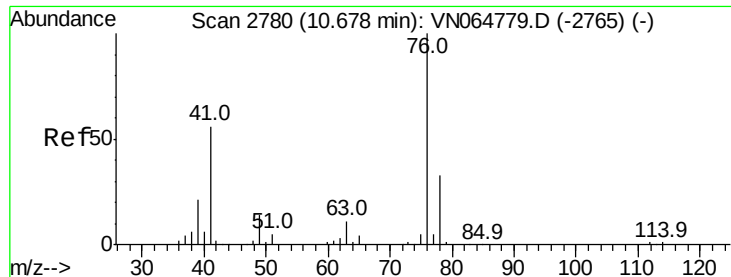
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 31.3 35.6 53.4#





#57

1,3-Dichloropropane

Concen: 4.891 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

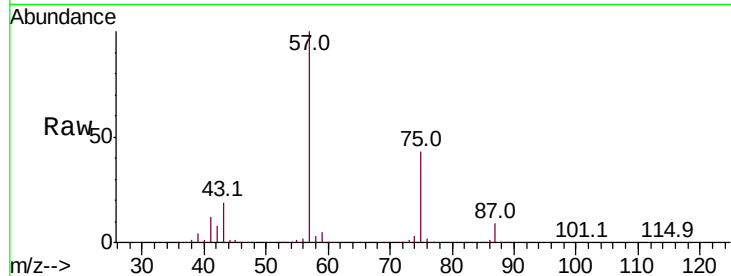
PB133456ZHE#16

Tot Ion: 76 Resp: 18325

Ion Ratio Lower Upper

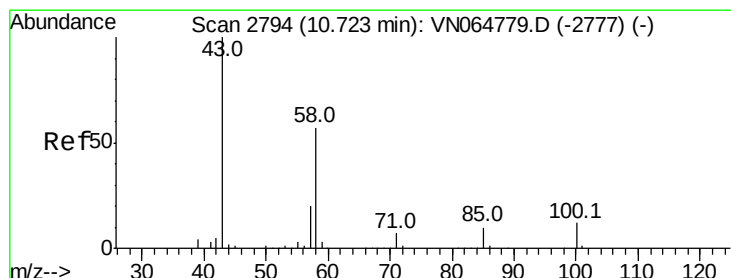
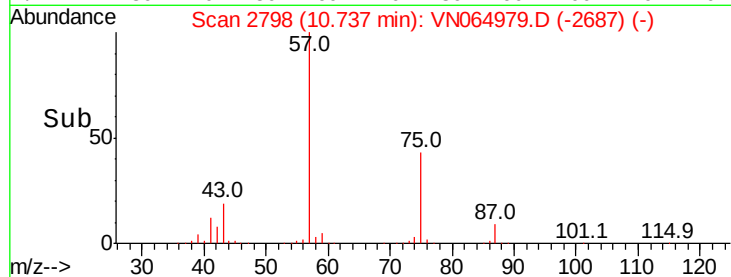
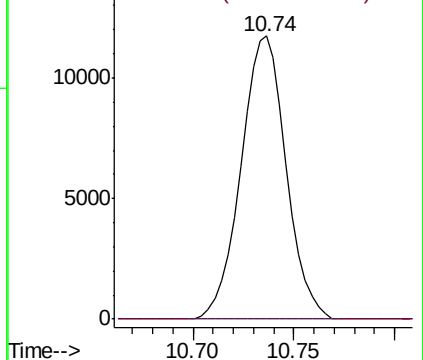
76 100

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: 120.248 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064979.D

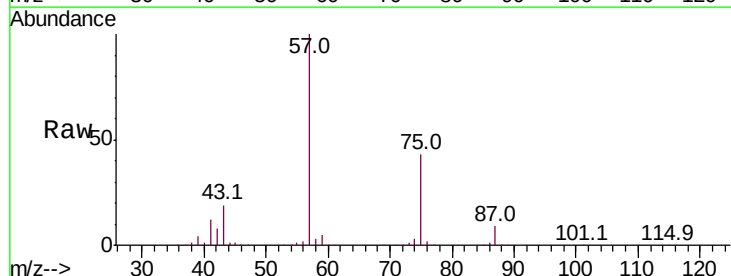
Acq: 8 Dec 2020 19:02

Tgt Ion: 43 Resp: 235684

Ion Ratio Lower Upper

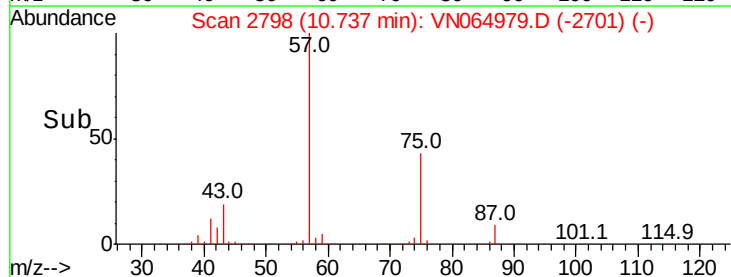
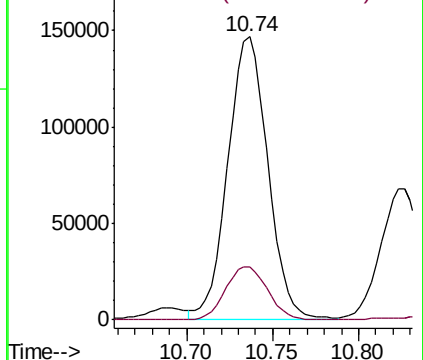
43 100

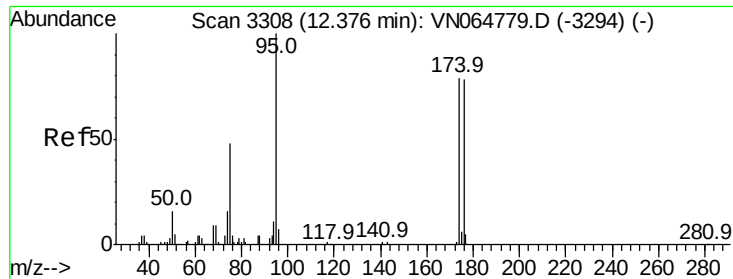
58 20.0 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

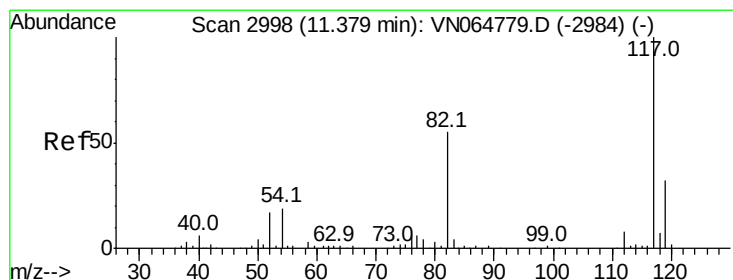
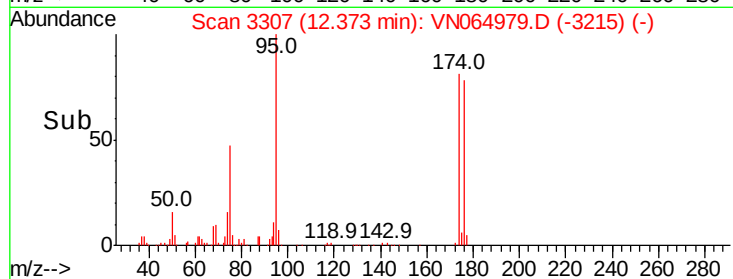
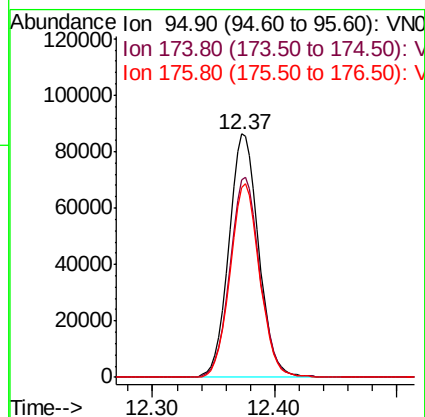
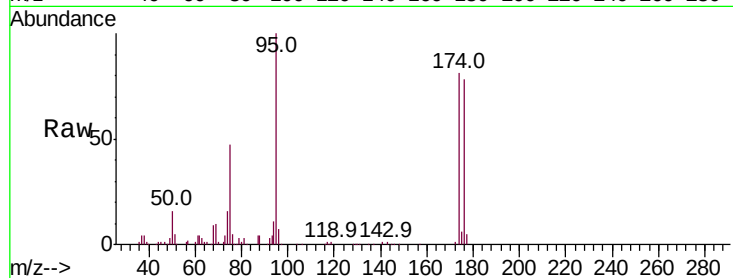




#62
4-Bromofluorobenzene
Concen: 53.342 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

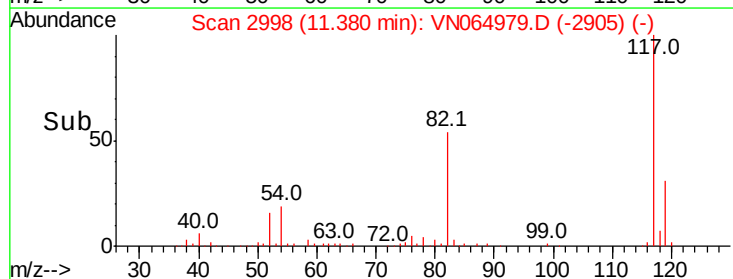
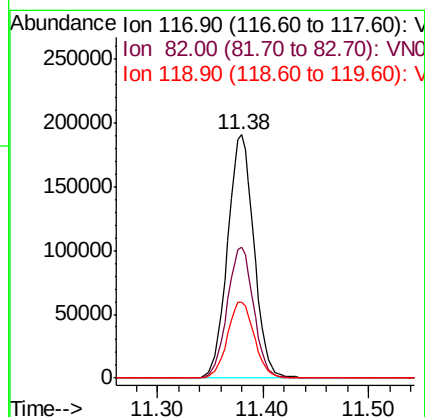
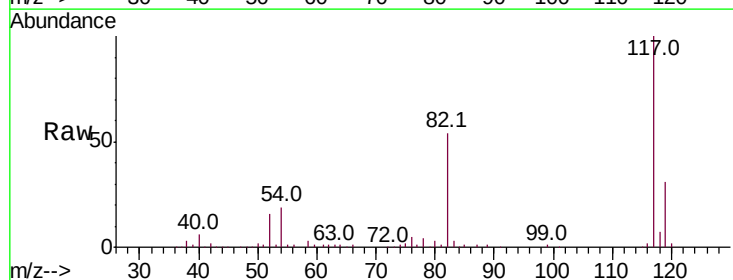
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#16

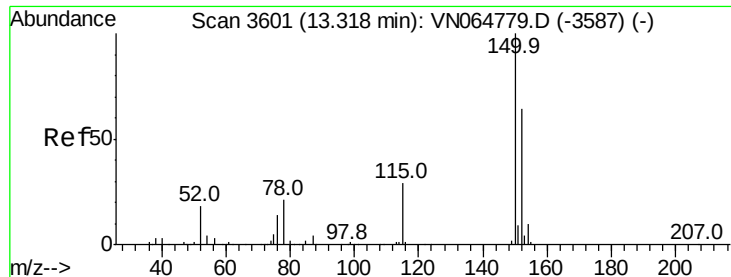
Tot Ion	95	174	176
Resp	147369	160.4	158.4
Ratio	100	82.6	78.8
Lower		0.0	0.0
Upper			



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064979.D
Acq: 8 Dec 2020 19:02

Tgt Ion	117	82	119
Resp	328810	66.2	38.6
Ratio	100	53.9	31.3
Lower		44.2	25.8
Upper			





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064979.D

Acq: 8 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#16

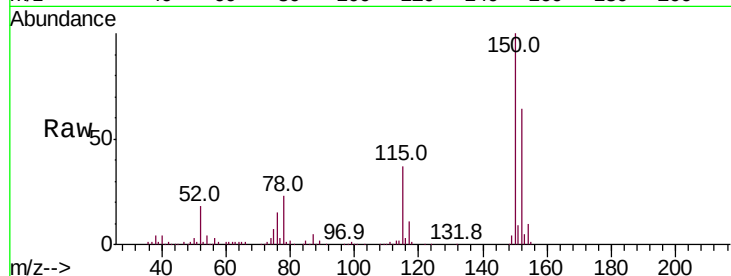
Tot Ion:152 Resp: 138995

Ion Ratio Lower Upper

152 100

115 58.2 29.7 89.1

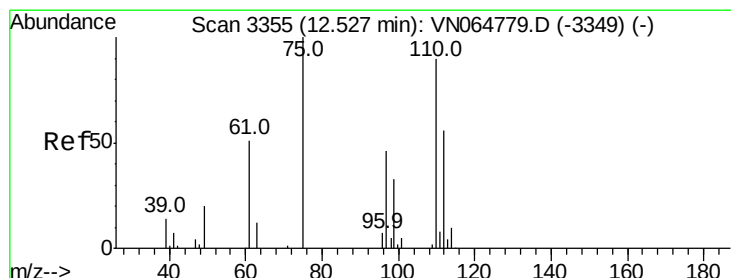
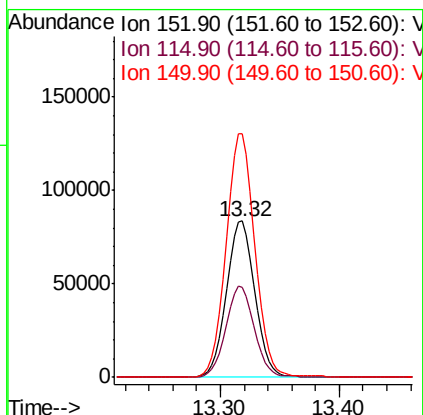
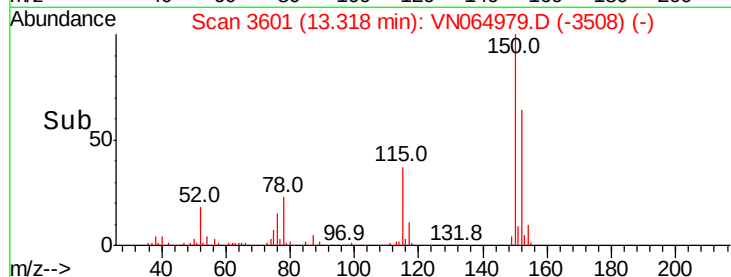
150 157.0 0.0 350.6



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: 22.990 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064979.D

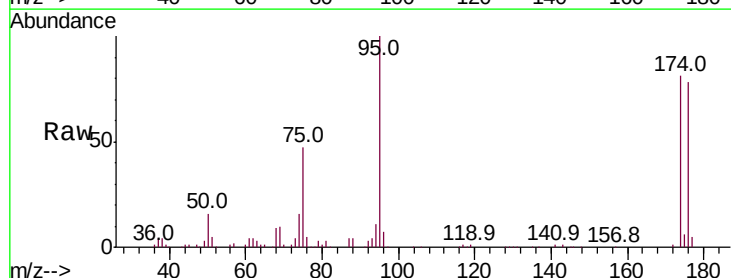
Acq: 8 Dec 2020 19:02

Tgt Ion: 75 Resp: 68817

Ion Ratio Lower Upper

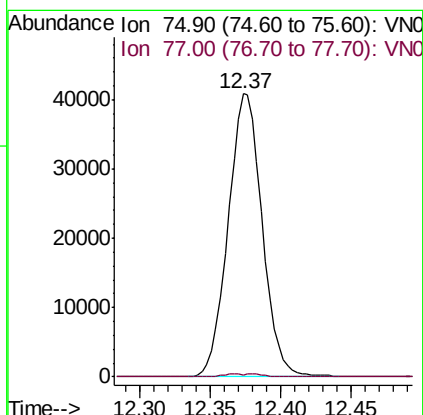
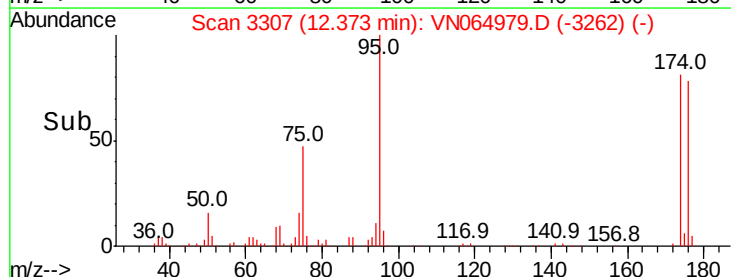
75 100

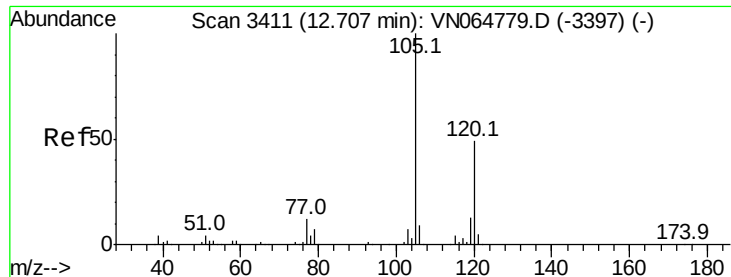
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

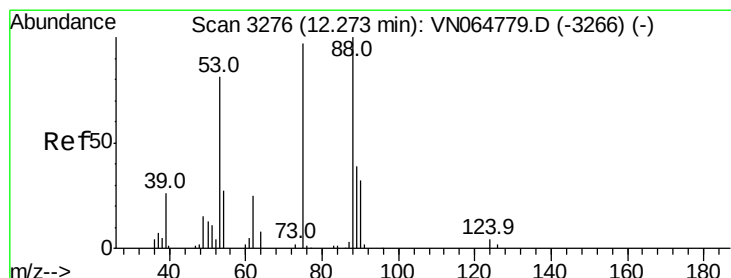
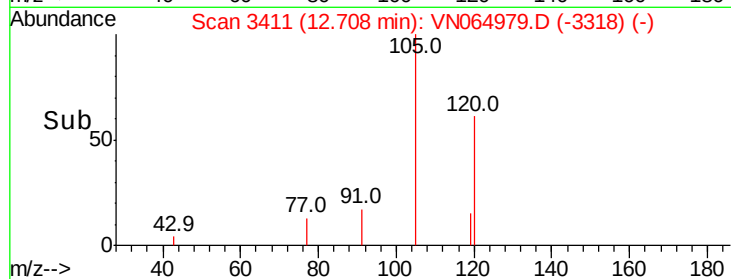
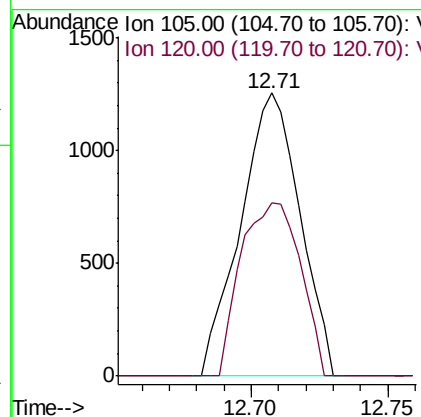
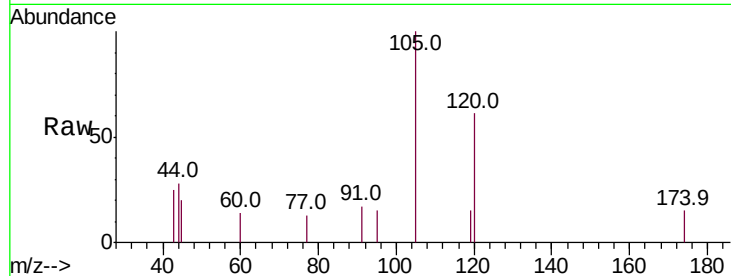




#80
 1,3,5-Trimethylbenzene
 Concen: 0.235 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#16

Tot Ion:105 Resp: 1891
 Ion Ratio Lower Upper
 105 100
 120 61.8 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.010 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN064979.D
 Acq: 8 Dec 2020 19:02

Tgt Ion: 75 Resp: 68817
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

