

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064354.D
 Acq On : 28 Oct 2020 15:57
 Operator : JC/MD
 Sample : PB132665ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#06

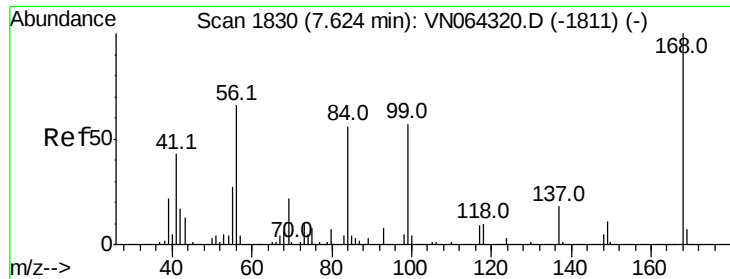
Quant Time: Oct 29 02:43:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	241200	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	428734	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	425124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169000	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	192957	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	7.55	113	140780	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	10.06	98	528584	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	12.38	95	222422	53.94	ug/l	0.00
Spiked Amount			Recovery	=	107.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.41	56	108	18.501	ug/l #	10
16) Acetone	3.78	43	12660	2.302	ug/l	96
18) Methyl Acetate	4.28	43	2665	0.915	ug/l #	74
20) Methylene Chloride	4.50	84	3256	1.184	ug/l	85
25) 2-Butanone	6.80	43	2643	1.358	ug/l #	82
29) Tetrahydrofuran	7.16	42	390	0.309	ug/l #	83
31) Cyclohexane	7.62	56	6138	1.364	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	20368	4.707	ug/l #	49
38) Carbon Tetrachloride	7.63	117	26662	5.315	ug/l #	17
43) Isopropyl Acetate	8.13	43	97734	13.081	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	1659	0.514	ug/l #	44
48) Methyl methacrylate	9.23	41	149237	38.716	ug/l #	47
49) 1,4-Dioxane	9.22	88	121	2.130	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8086	1.862	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	39919	7.335	ug/l #	60
56) Ethyl methacrylate	10.52	69	1742	0.384	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5534	1.081	ug/l #	42
59) 2-Hexanone	10.74	43	101436	31.713	ug/l #	52
74) N-amyl acetate	12.00	43	4702	0.844	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	120458	29.764	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	120458	85.736	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.15	180	31	2.027	ug/l #	1
95) Naphthalene	15.11	128	693	2.462	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.15	180	31	2.192	ug/l #	1

(#) = 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: VN064354.D

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MSVOA_N

ClientSampleId :

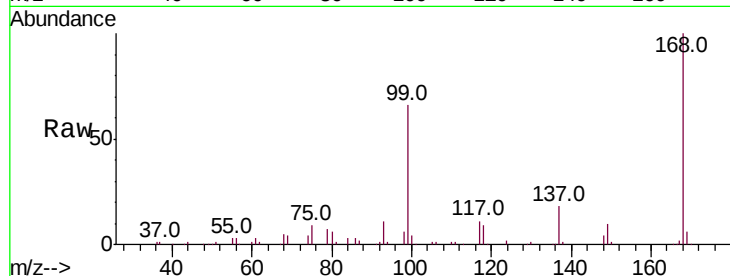
PB132665ZHE#06

Tot Ion:168 Resp: 241200

Ion Ratio Lower Upper

168 100

99 65.7 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

100000

80000

60000

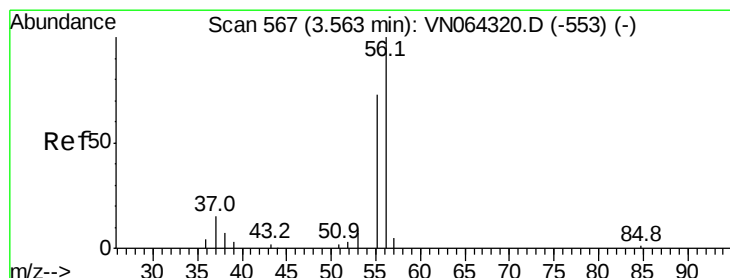
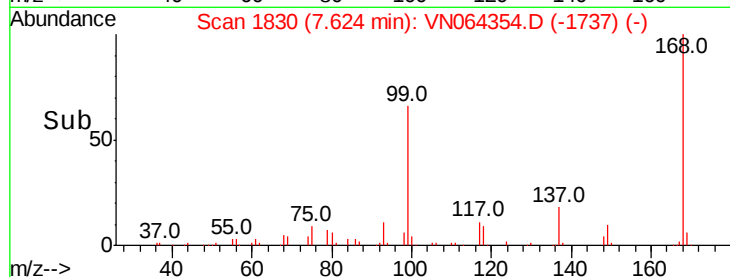
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#13

Acrolein

Concen: 18.501 ug/l

RT: 3.41 min Scan# 518

Delta R.T. -0.16 min

Lab File: VN064354.D

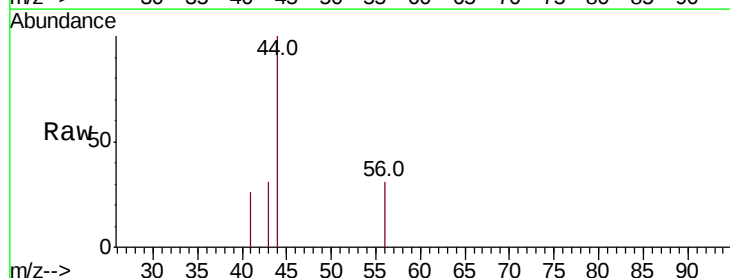
Acq: 28 Oct 2020 15:57

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.41

200

150

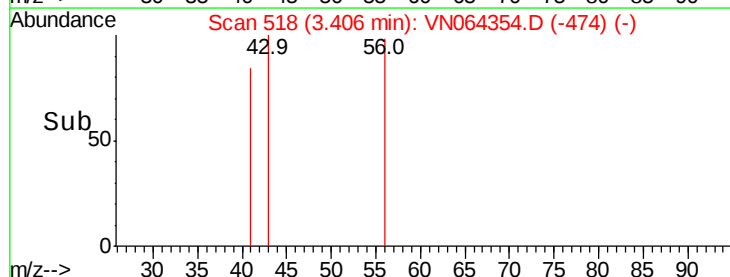
100

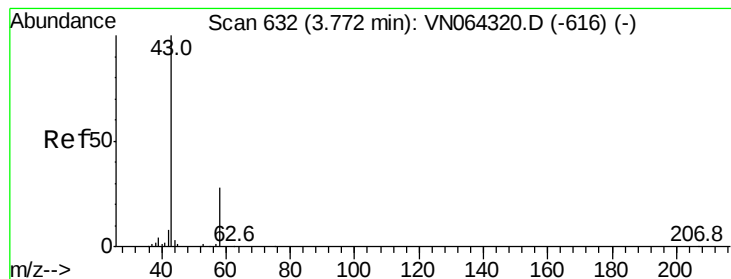
50

0

Time-->

3.39 3.40 3.41





#16

Acetone

Concen: 2.302 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

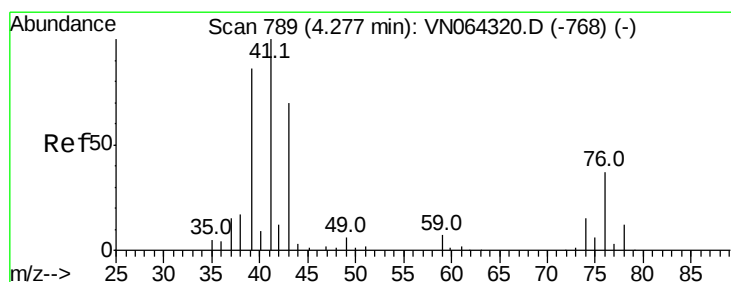
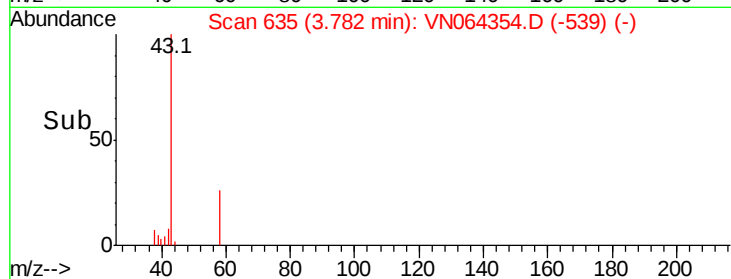
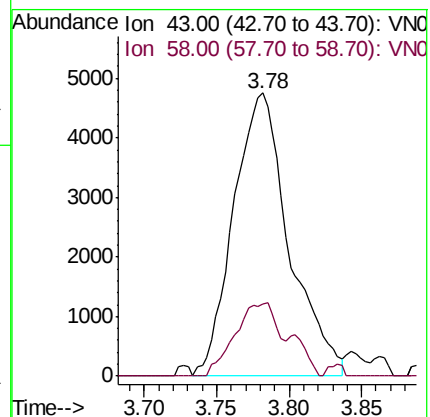
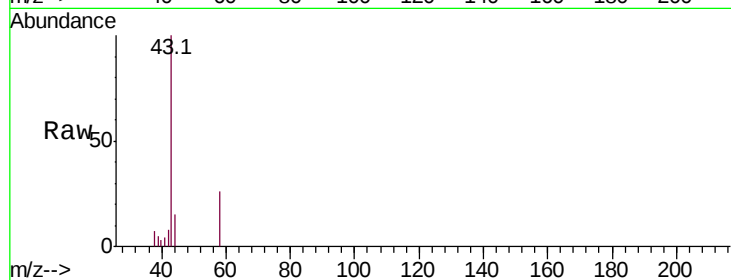
PB132665ZHE#06

Tot Ion: 43 Resp: 12660

Ion Ratio Lower Upper

43 100

58 25.5 22.1 33.1



#18

Methyl Acetate

Concen: 0.915 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN064354.D

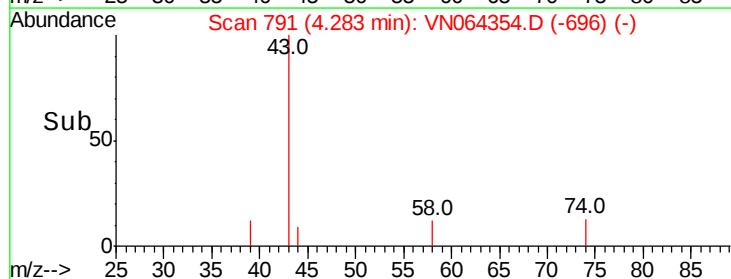
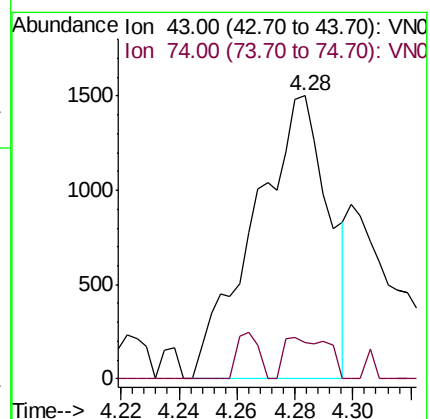
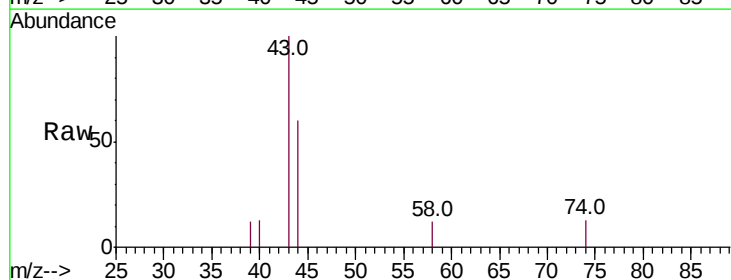
Acq: 28 Oct 2020 15:57

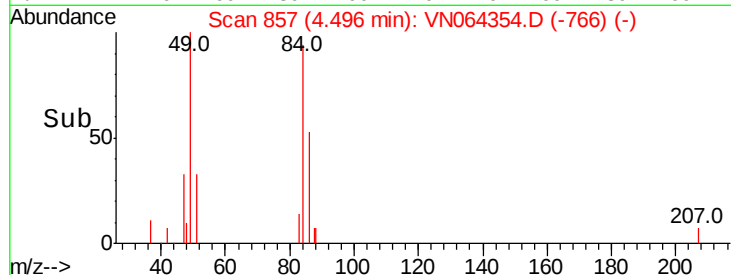
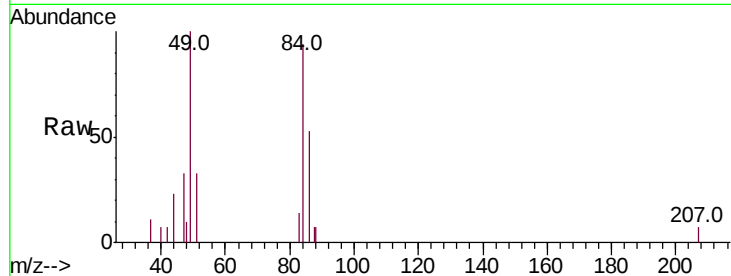
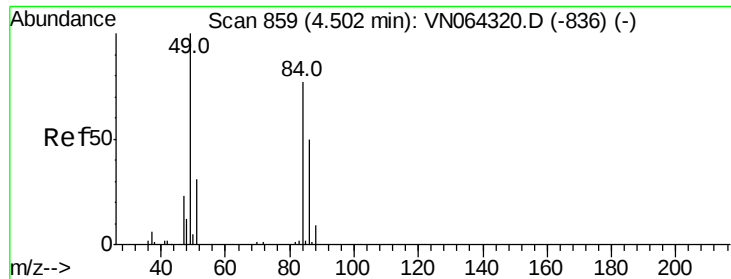
Tgt Ion: 43 Resp: 2665

Ion Ratio Lower Upper

43 100

74 8.7 16.7 25.1#

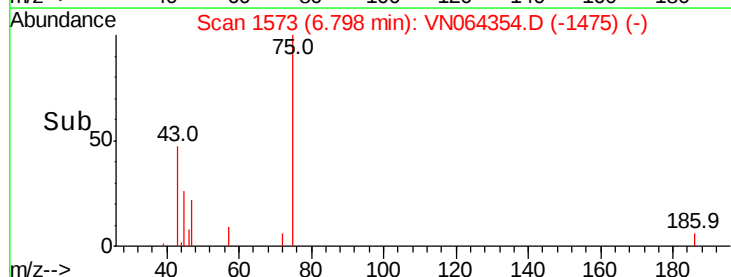
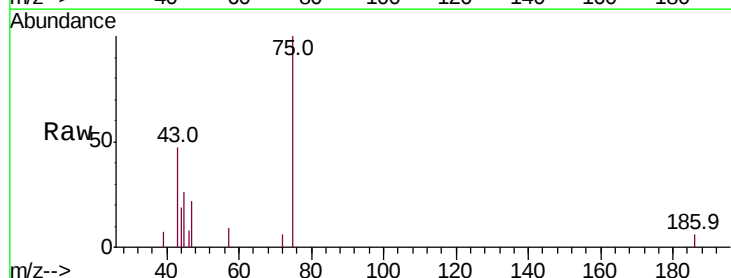
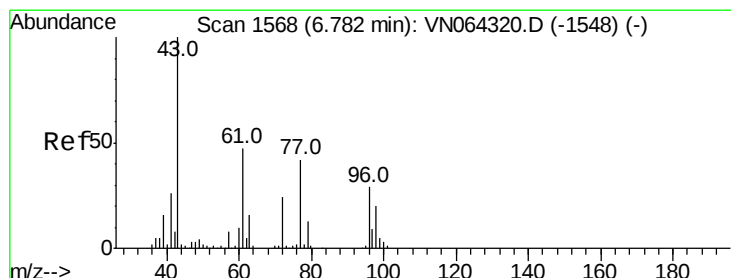
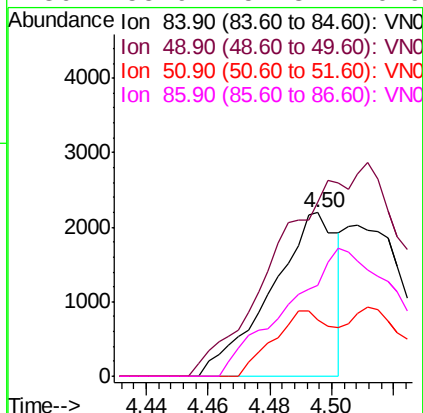




#20
Methylene Chloride
Concen: 1.184 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

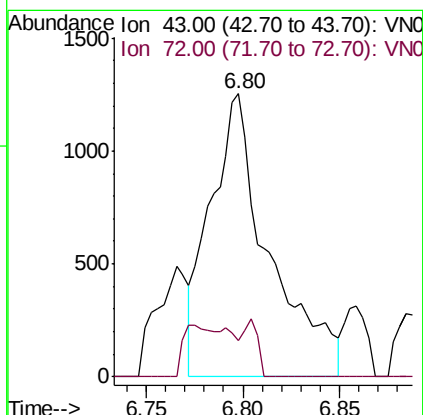
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#06

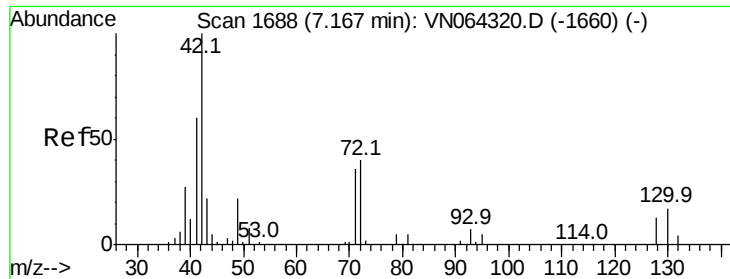
Tot Ion: 84 Resp: 3256
Ion Ratio Lower Upper
84 100
49 106.4 103.6 155.4
51 34.8 31.8 47.8
86 55.9 51.3 76.9



#25
2-Butanone
Concen: 1.358 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

Tgt Ion: 43 Resp: 2643
Ion Ratio Lower Upper
43 100
72 14.7 18.8 28.2#





#29

Tetrahydrofuran

Concen: 0.309 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

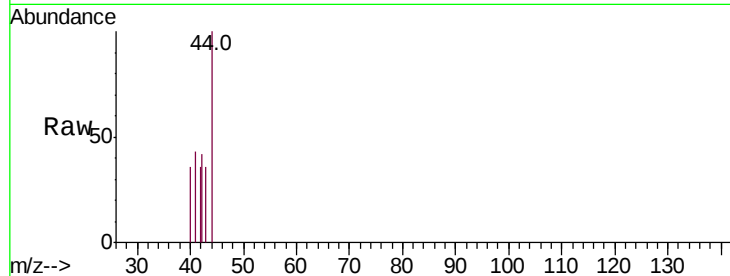
Tot Ion: 42 Resp: 390

Ion Ratio Lower Upper

42 100

72 47.9 31.6 47.4#

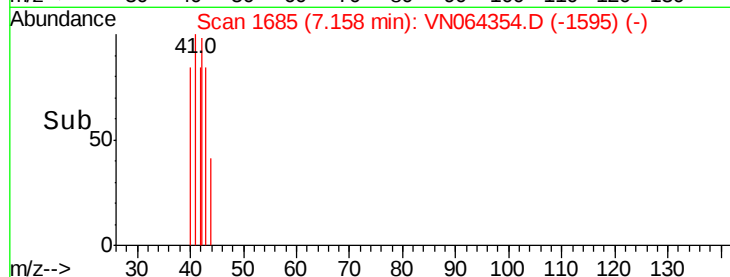
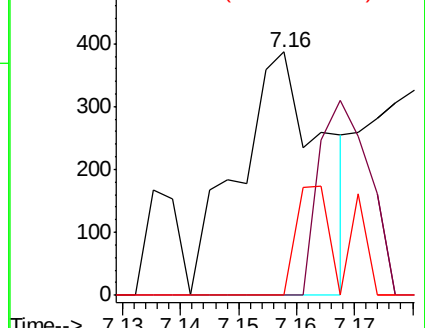
71 25.1 29.4 44.0#



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: 1.364 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

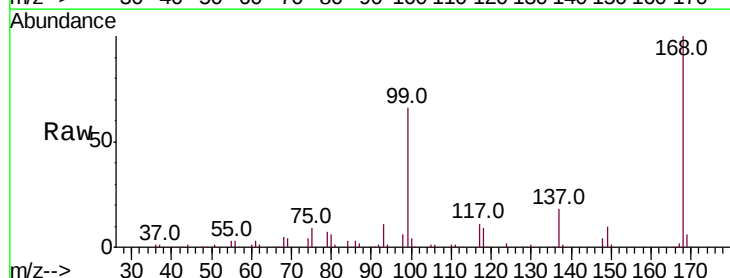
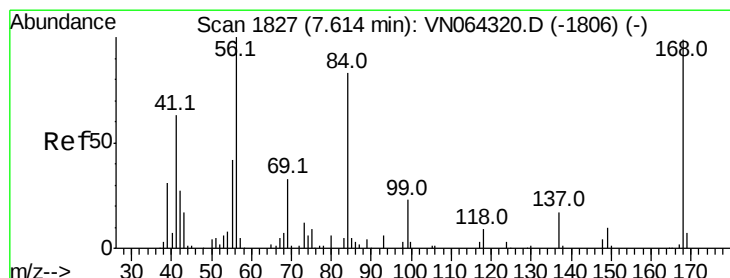
Tgt Ion: 56 Resp: 6138

Ion Ratio Lower Upper

56 100

69 167.9 25.8 38.8#

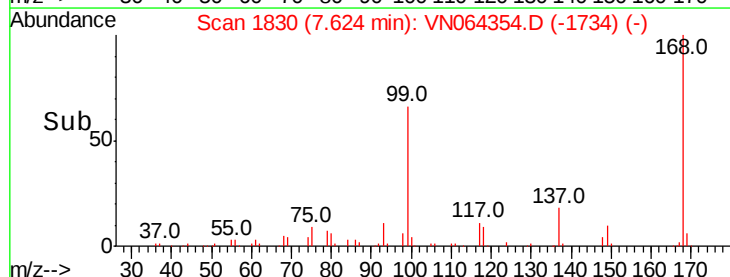
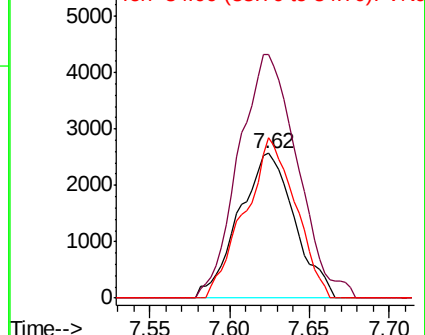
84 110.6 66.3 99.5#

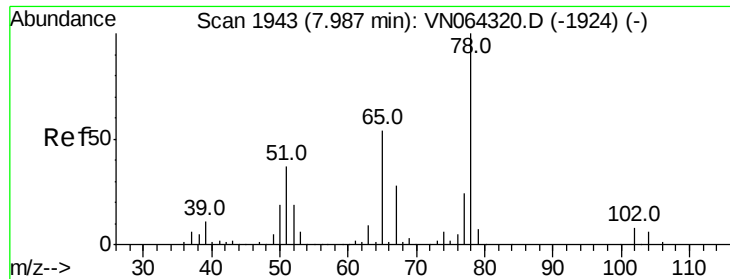


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

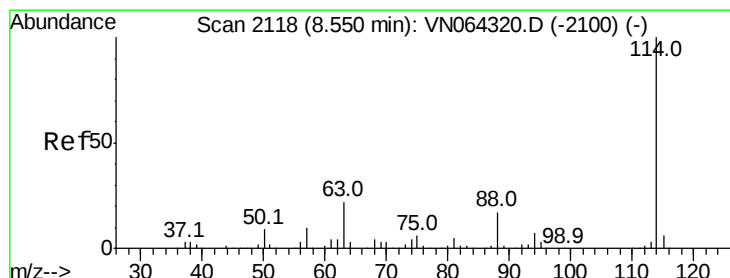
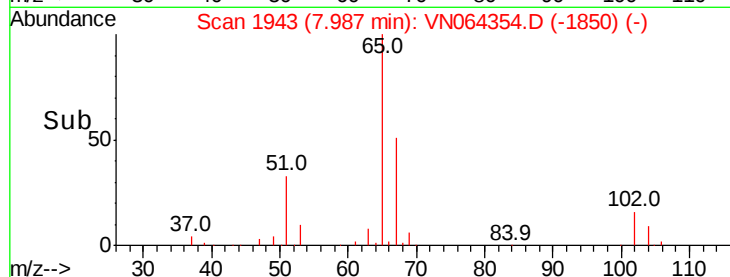
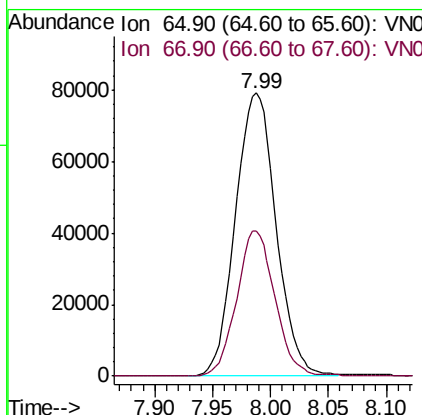
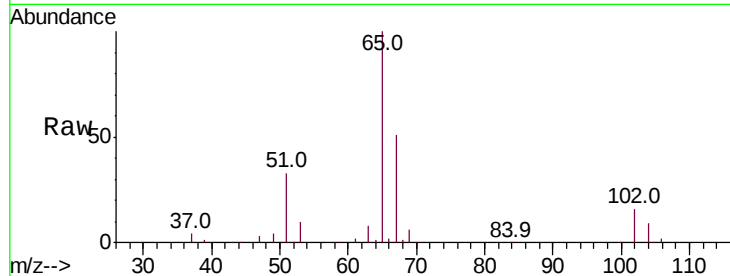




#33
 1,2-Dichloroethane-d4
 Concen: 49.782 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064354.D
 Acq: 28 Oct 2020 15:57

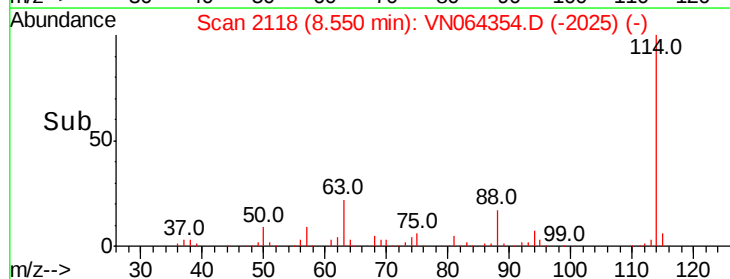
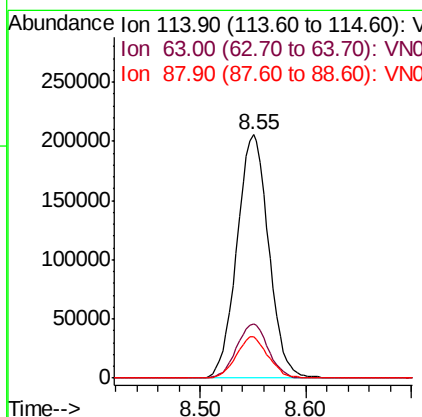
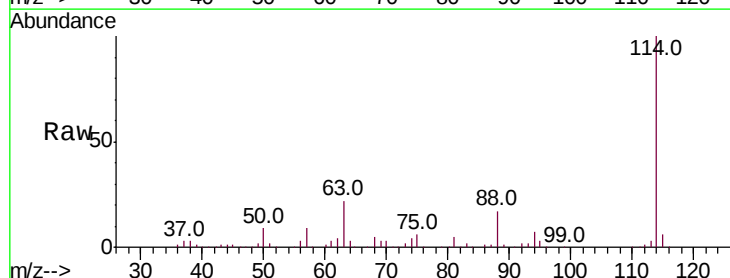
Instrument :
 MSVOA_N
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 PB132665ZHE#06

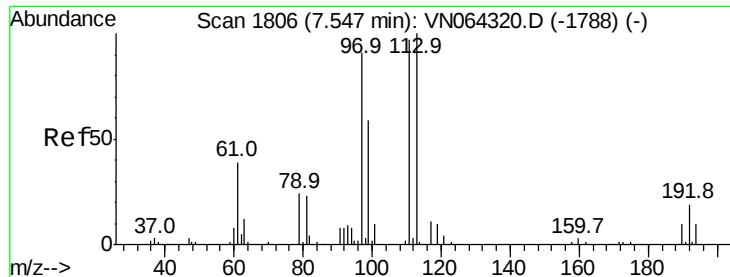
Tot Ion: 65 Resp: 192957
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064354.D
 Acq: 28 Oct 2020 15:57

Tgt Ion: 114 Resp: 428734
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.6
 88 17.0 0.0 33.4

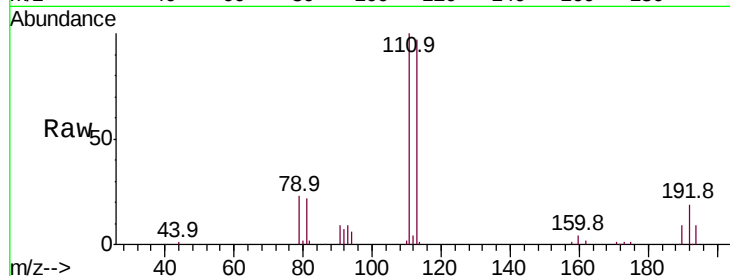




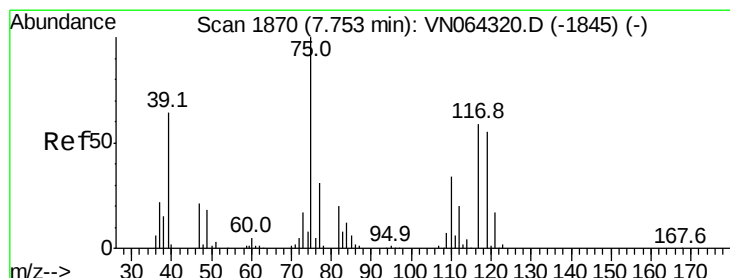
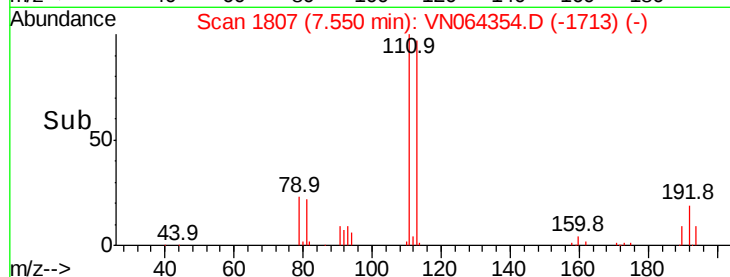
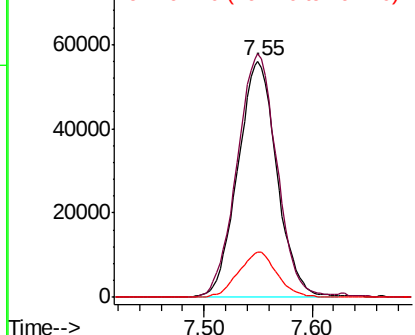
#35
Dibromofluoromethane
Concen: 49.239 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#06

Tot Ion:113 Resp: 140780
Ion Ratio Lower Upper
113 100
111 105.1 81.5 122.3
192 18.8 15.0 22.4

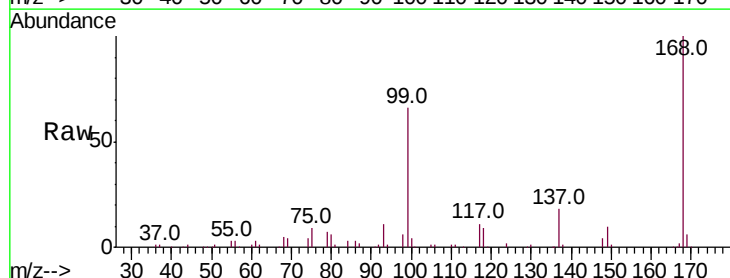


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

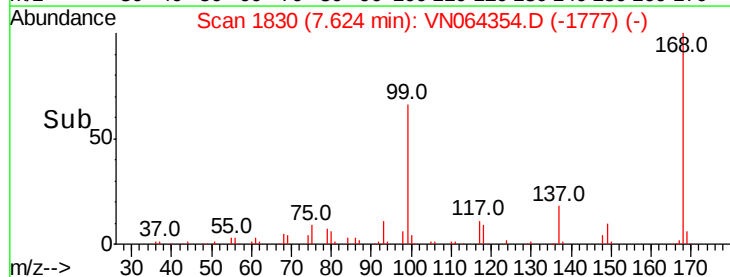
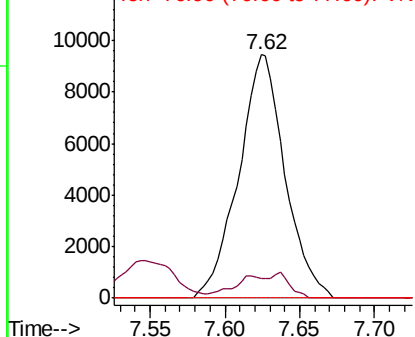


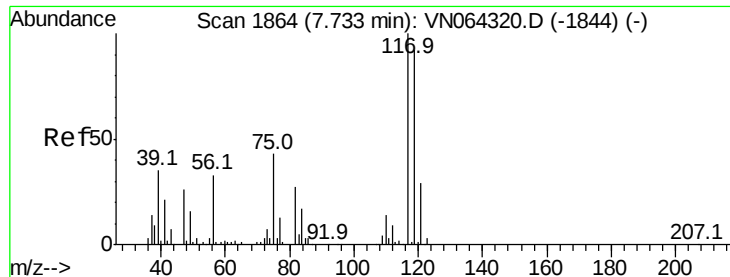
#36
1,1-Dichloropropene
Concen: 4.707 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.13 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

Tgt Ion: 75 Resp: 20368
Ion Ratio Lower Upper
75 100
110 6.4 16.8 50.3#
77 0.0 24.2 36.4#



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





#38

Carbon Tetrachloride

Concen: 5.315 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

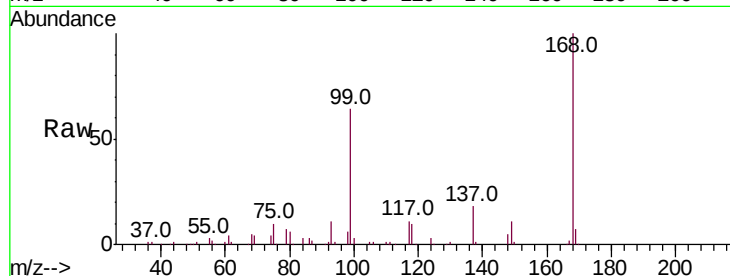
Tot Ion:117 Resp: 26662

Ion Ratio Lower Upper

117 100

119 4.4 73.7 110.5#

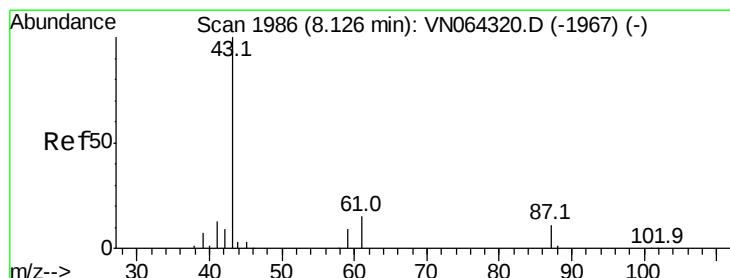
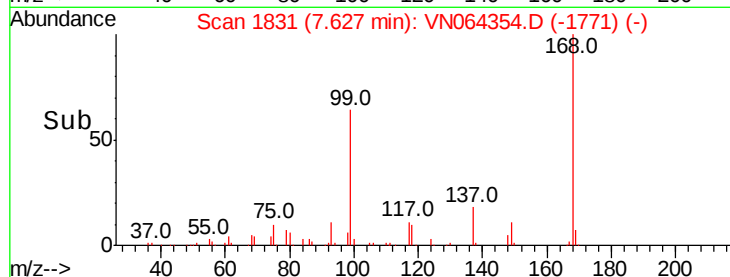
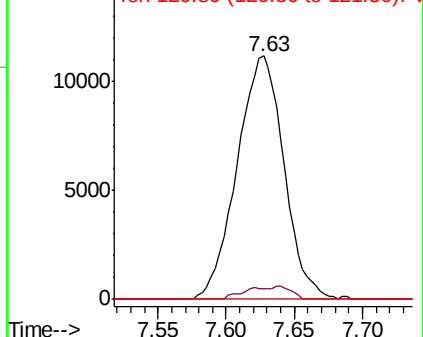
121 0.0 22.8 34.2#



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: 13.081 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

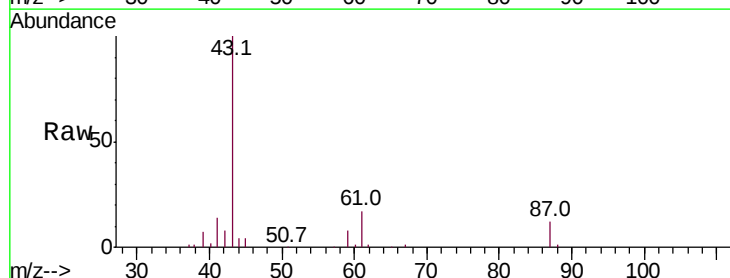
Tgt Ion: 43 Resp: 97734

Ion Ratio Lower Upper

43 100

61 17.9 19.1 28.7#

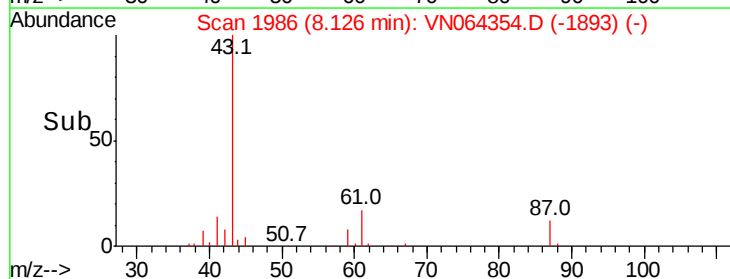
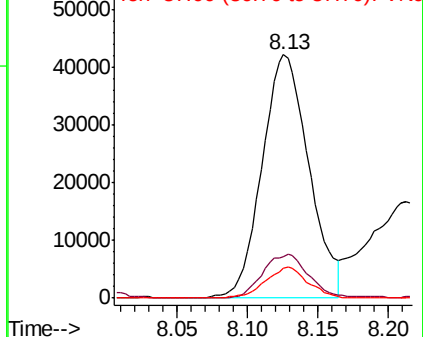
87 11.5 9.3 13.9

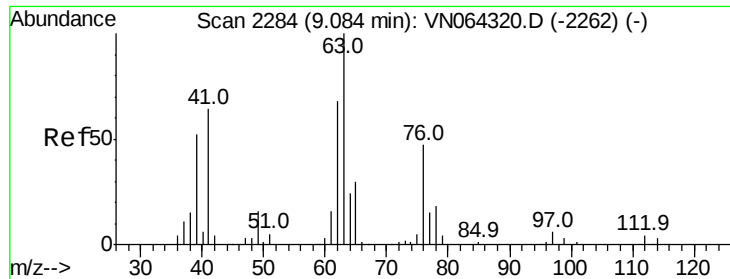


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.514 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

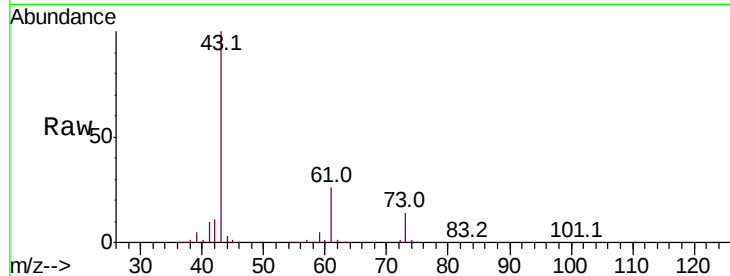
PB132665ZHE#06

Tot Ion: 63 Resp: 1659

Ion Ratio Lower Upper

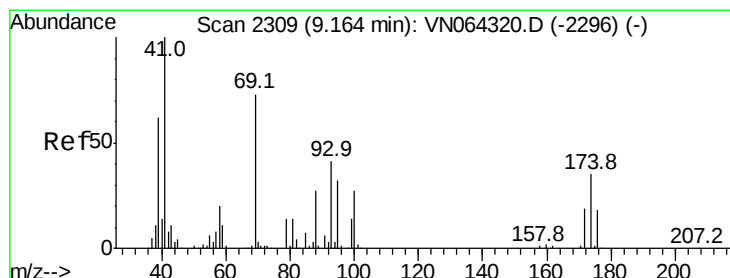
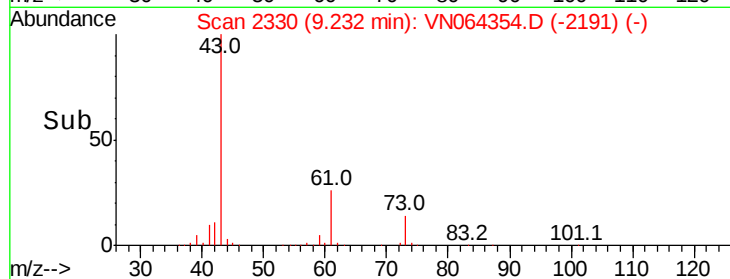
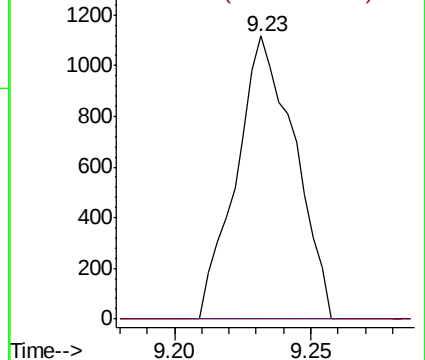
63 100

65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 38.716 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

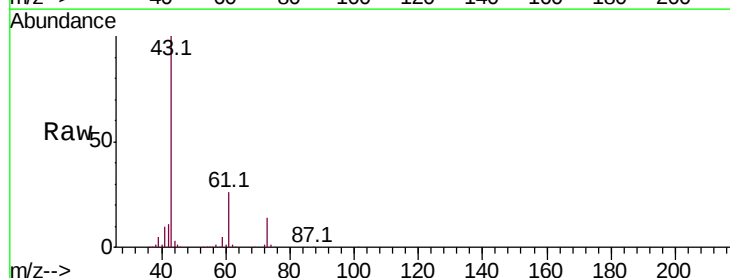
Tgt Ion: 41 Resp: 149237

Ion Ratio Lower Upper

41 100

69 0.1 59.1 88.7#

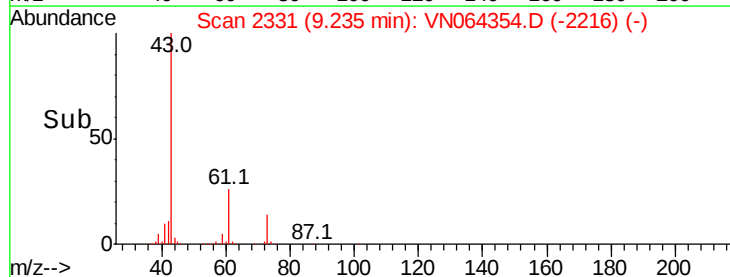
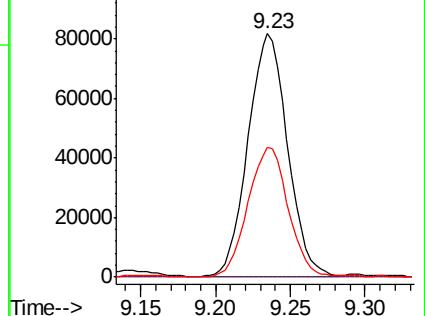
39 54.1 51.3 76.9

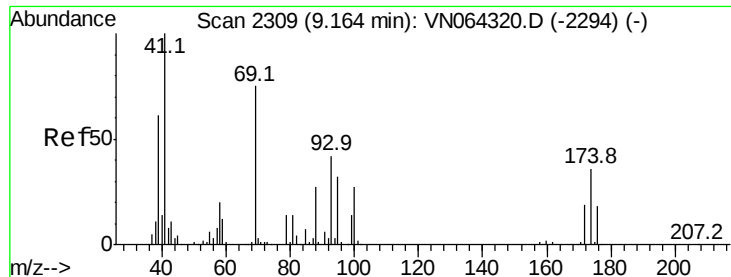


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 2.130 ug/l

RT: 9.22 min Scan# 2327

Delta R.T. 0.06 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

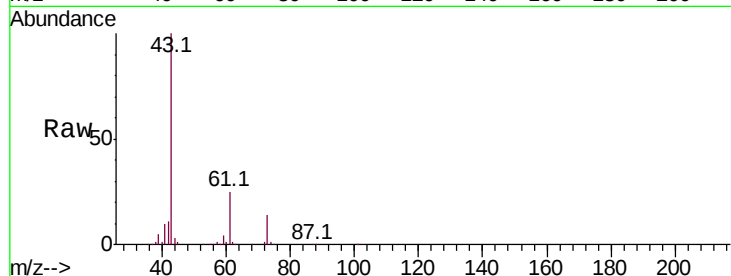
Tot Ion: 88 Resp: 121

Ion Ratio Lower Upper

88 100

43 1276911.6 31.8 47.8#

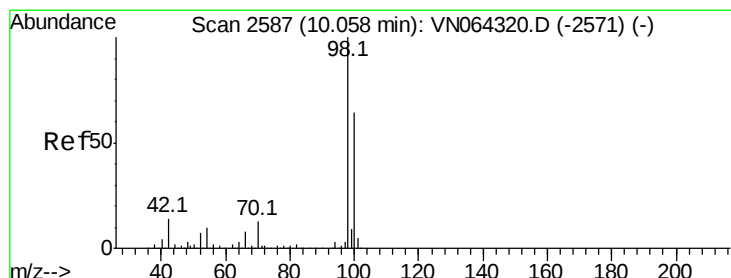
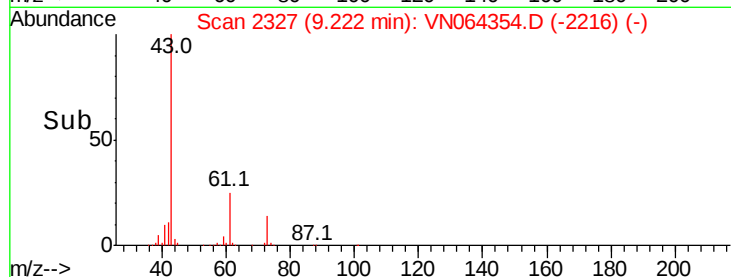
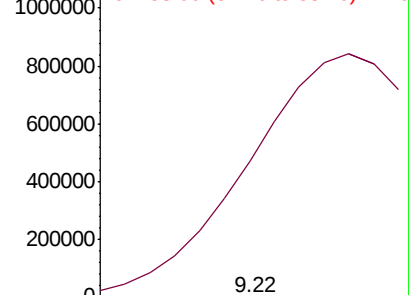
58 4483.5 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.982 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064354.D

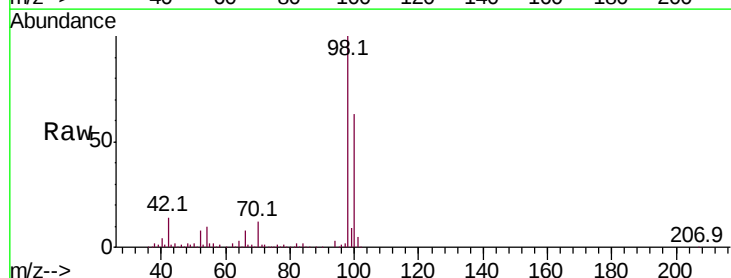
Acq: 28 Oct 2020 15:57

Tgt Ion: 98 Resp: 528584

Ion Ratio Lower Upper

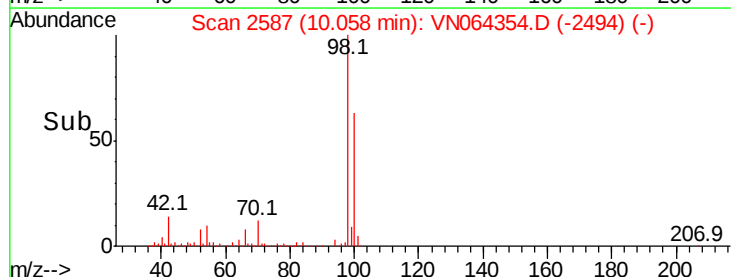
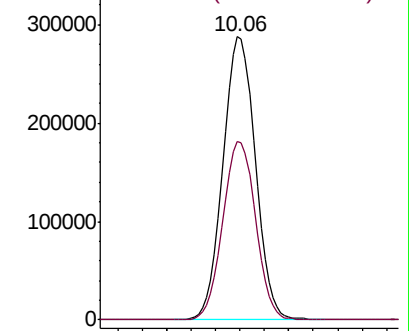
98 100

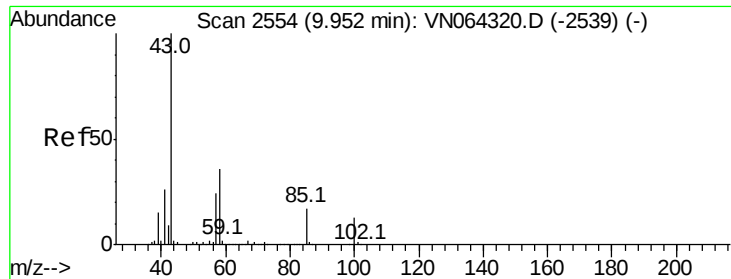
100 63.8 50.9 76.3



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: 1.862 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

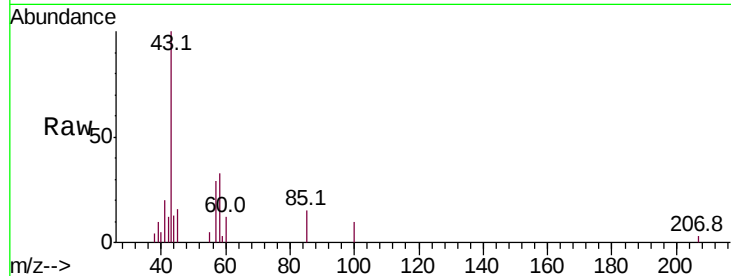
PB132665ZHE#06

Tot Ion: 43 Resp: 8086

Ion Ratio Lower Upper

43 100

58 40.4 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

20000

15000

10000

5000

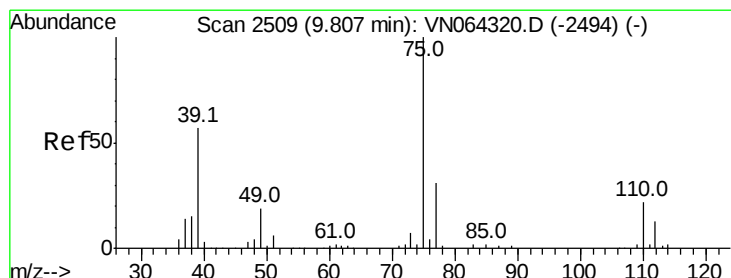
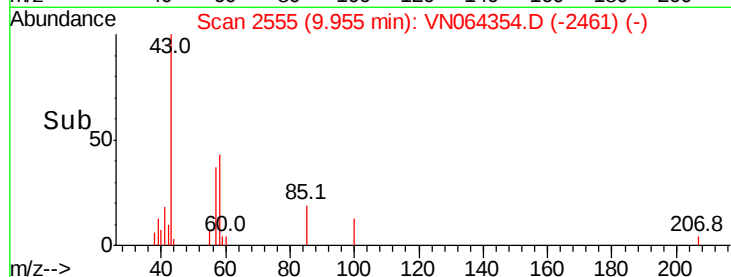
0

Time-->

9.90

9.95

10.00



#54

cis-1,3-Dichloropropene

Concen: 7.335 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

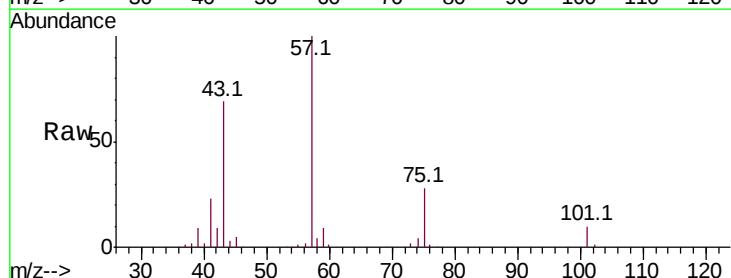
Tgt Ion: 75 Resp: 39919

Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

39 34.1 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064320.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064320.D (-2494) (-)

30000

25000

20000

15000

10000

5000

0

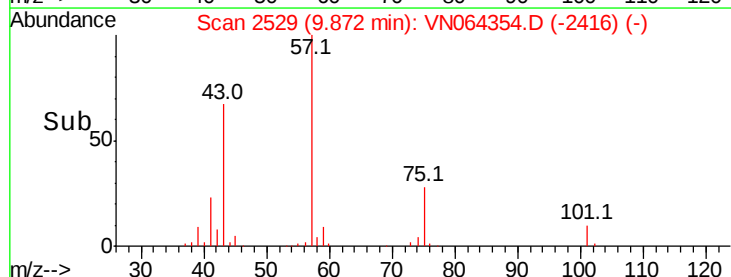
Time-->

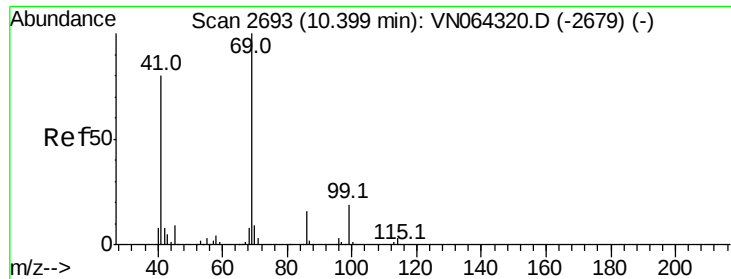
9.80

9.85

9.90

9.95





#56

Ethyl methacrylate

Concen: 0.384 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

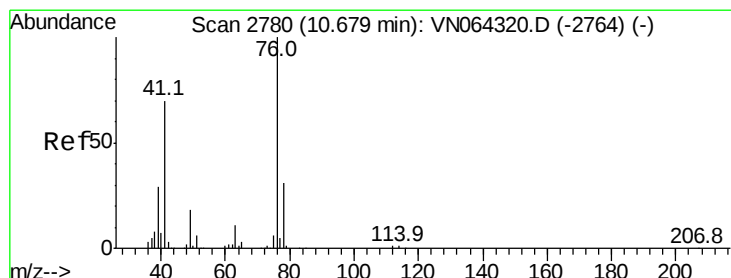
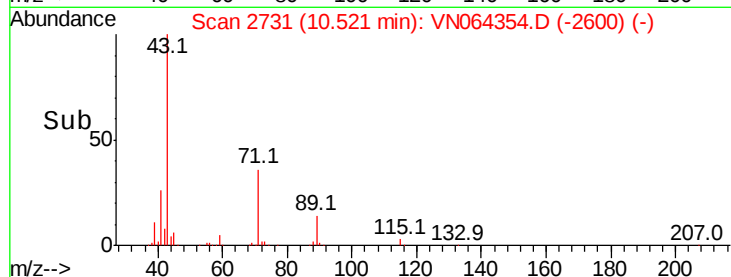
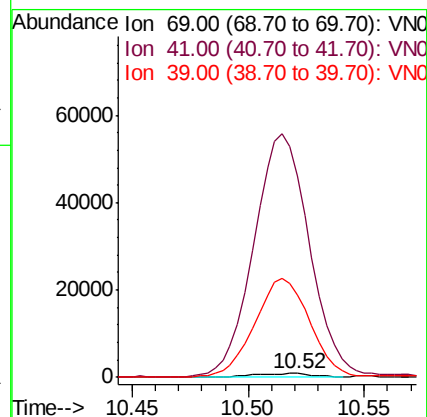
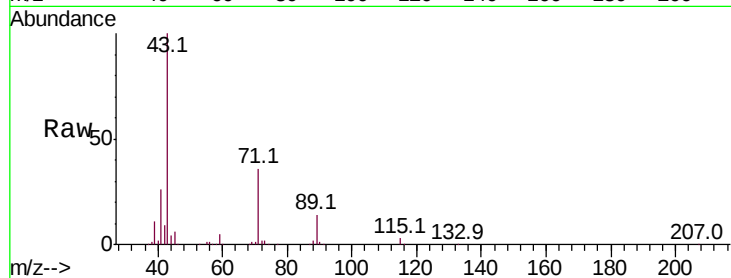
Tot Ion: 69 Resp: 1742

Ion Ratio Lower Upper

69 100

41 5416.5 61.4 92.2#

39 2173.7 36.5 54.7#



#57

1,3-Dichloropropane

Concen: 1.081 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064354.D

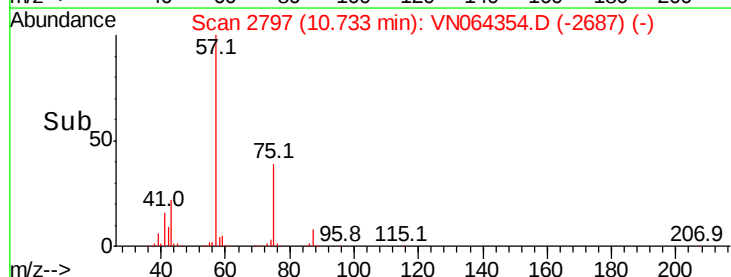
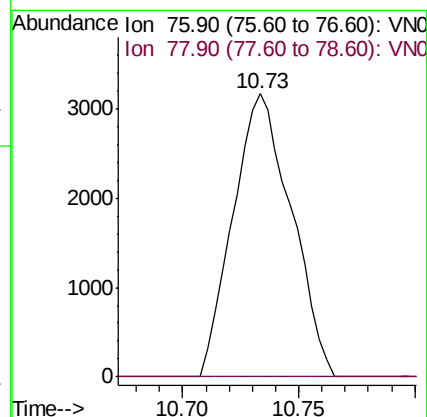
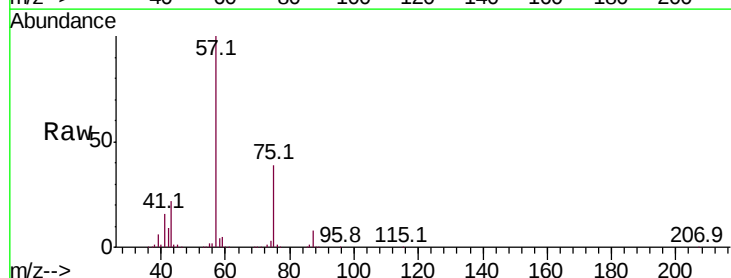
Acq: 28 Oct 2020 15:57

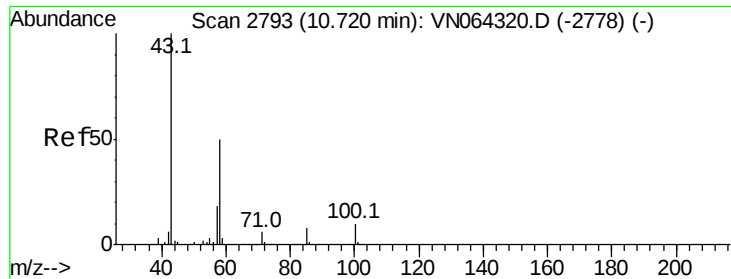
Tgt Ion: 76 Resp: 5534

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#





#59

2-Hexanone

Concen: 31.713 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

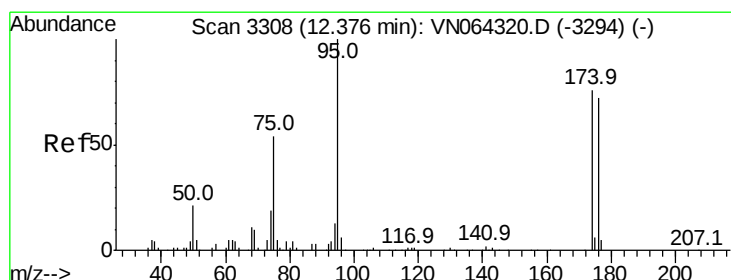
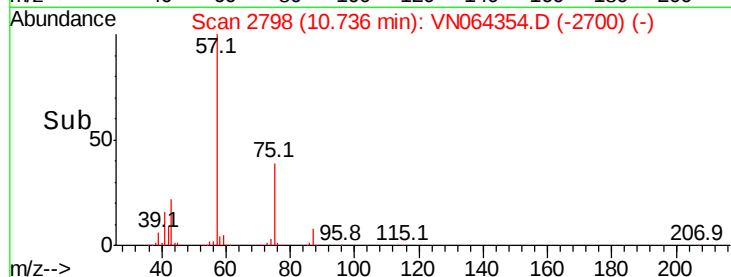
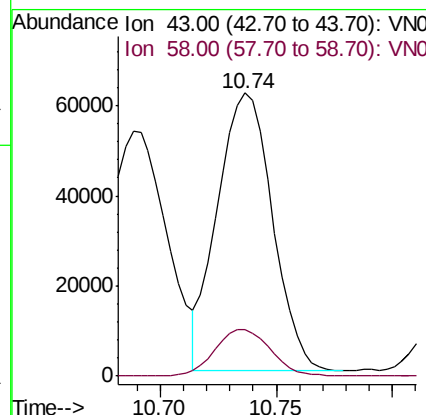
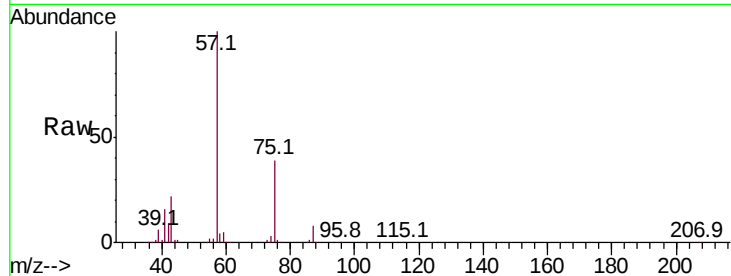
PB132665ZHE#06

Tot Ion: 43 Resp: 101436

Ion Ratio Lower Upper

43 100

58 17.2 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 53.942 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

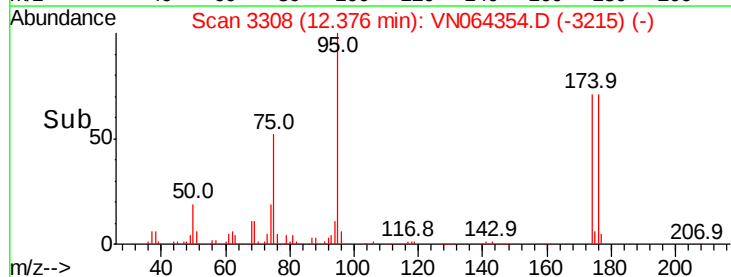
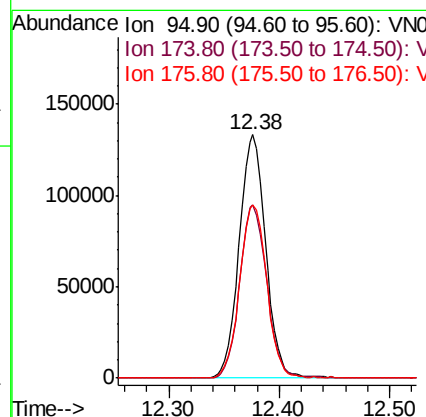
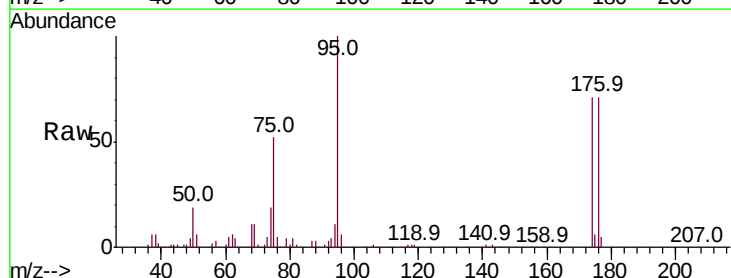
Tgt Ion: 95 Resp: 222422

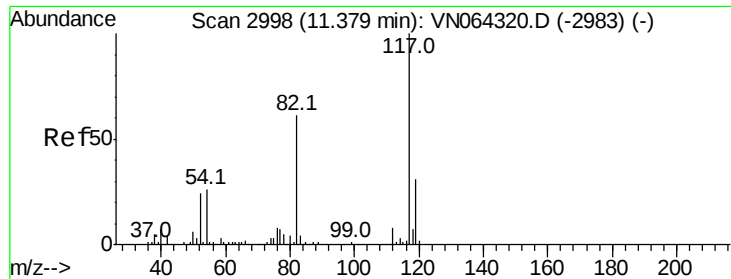
Ion Ratio Lower Upper

95 100

174 72.5 0.0 147.4

176 72.6 0.0 143.6

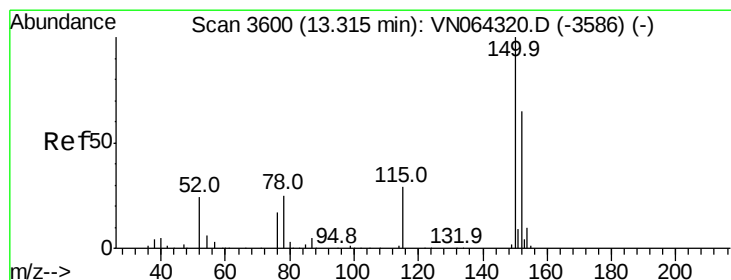
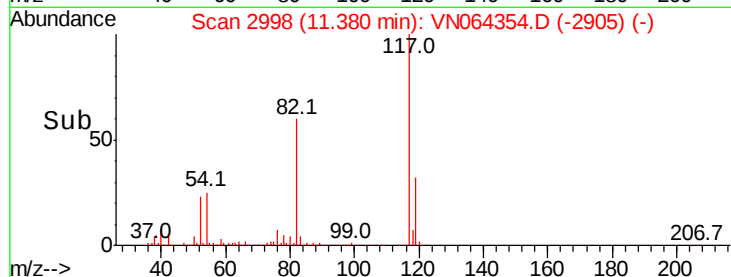
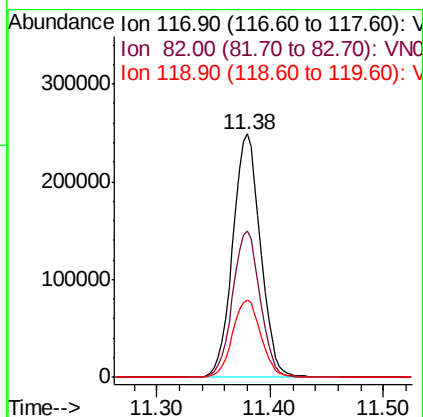
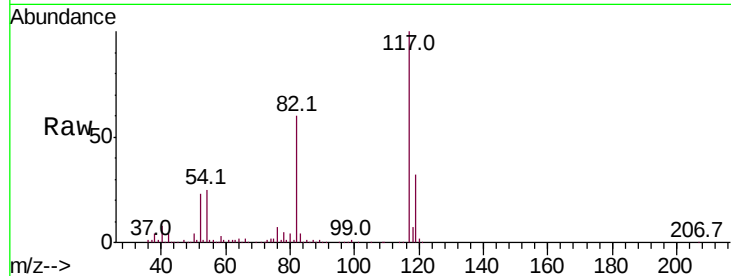




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

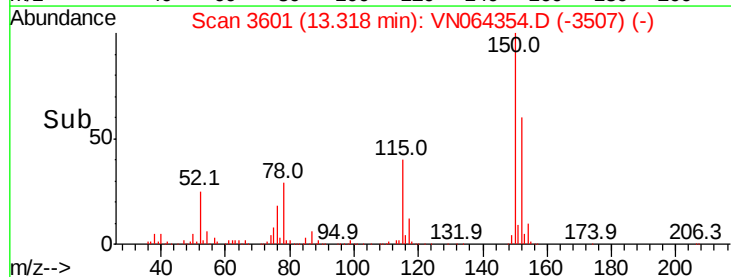
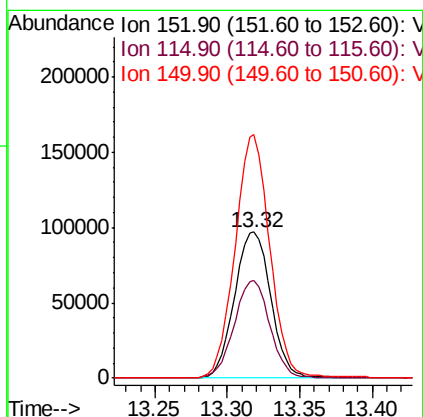
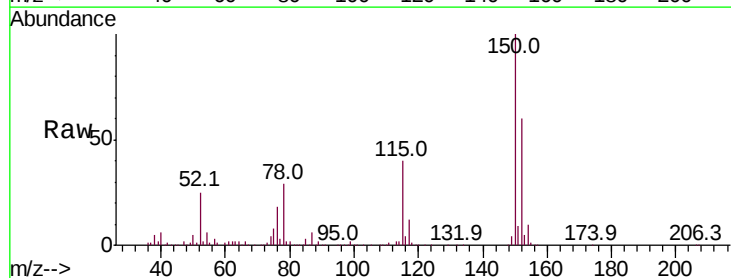
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#06

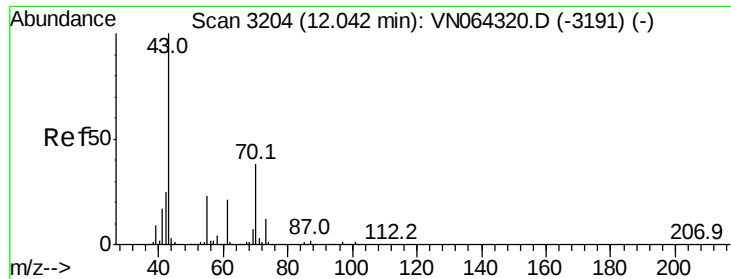
Tot Ion:117 Resp: 425124
Ion Ratio Lower Upper
117 100
82 60.0 48.8 73.2
119 31.6 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064354.D
Acq: 28 Oct 2020 15:57

Tgt Ion:152 Resp: 169000
Ion Ratio Lower Upper
152 100
115 65.1 31.5 94.5
150 159.4 0.0 346.2





#74

N-amvl acetate

Concen: 0.844 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

Tot Ion: 43 Resp: 4702

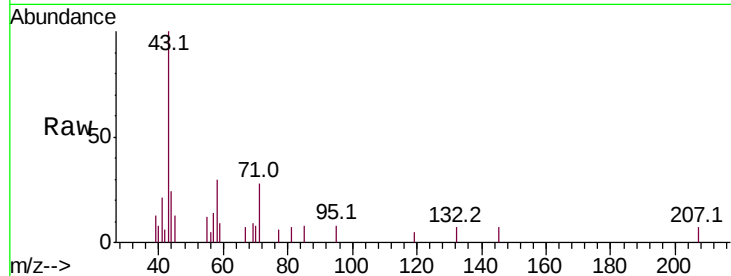
Ion Ratio Lower Upper

43 100

70 3.5 30.6 45.8#

55 4.2 18.2 27.4#

61 0.0 17.6 26.4#

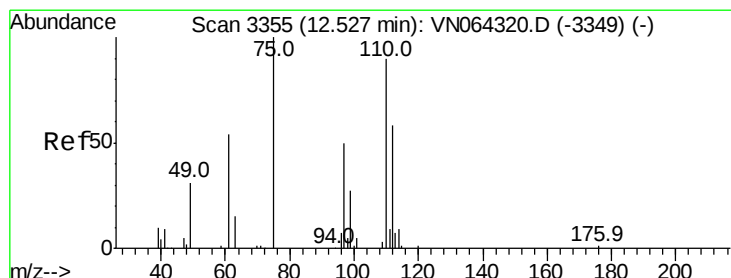
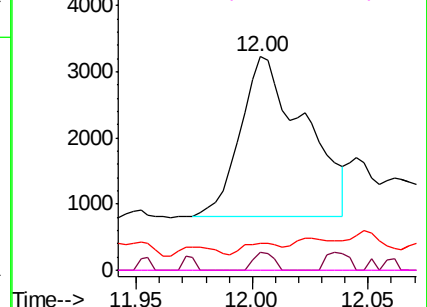
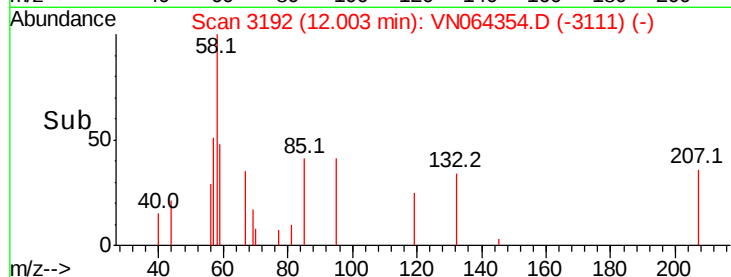


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 29.764 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064354.D

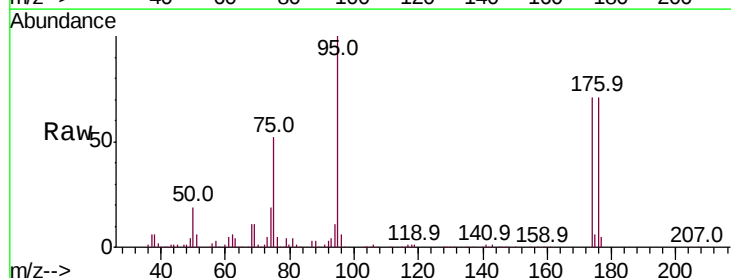
Acq: 28 Oct 2020 15:57

Tgt Ion: 75 Resp: 120458

Ion Ratio Lower Upper

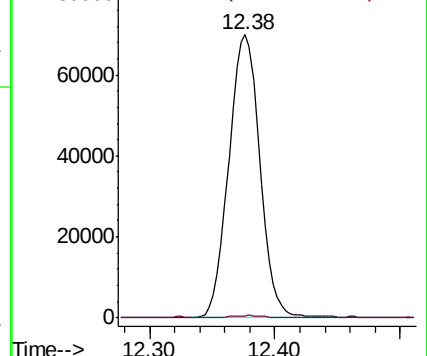
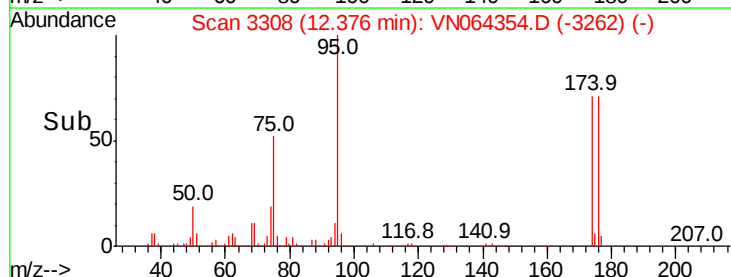
75 100

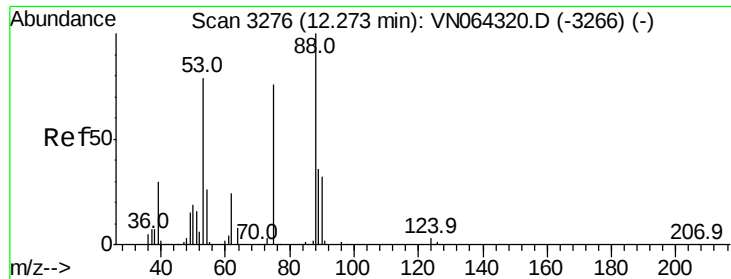
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 85.736 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

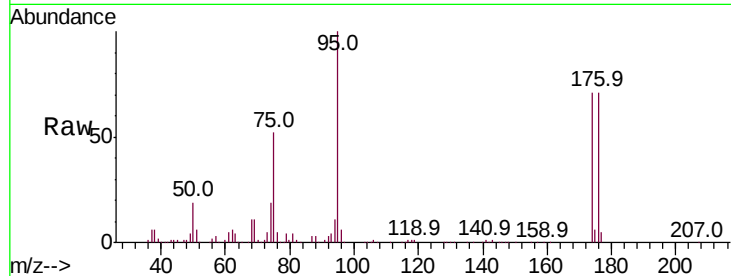
Tot Ion: 75 Resp: 120458

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

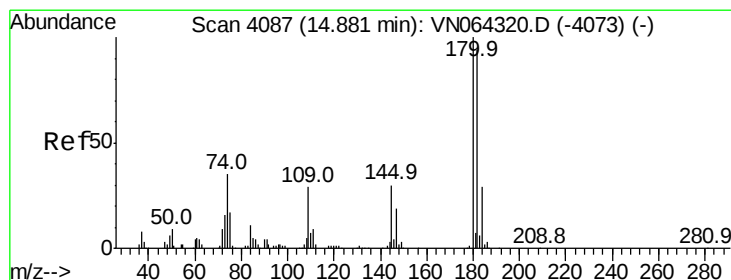
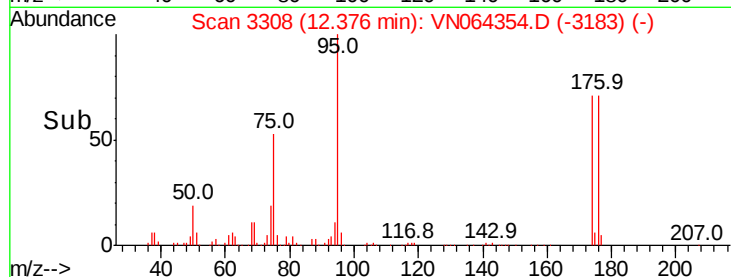
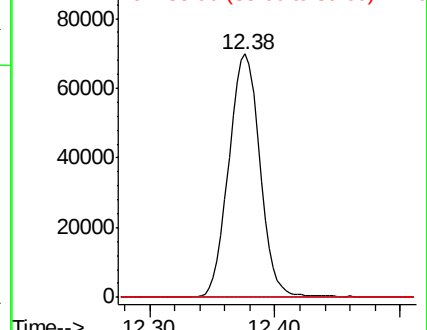
89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN064320.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN064320.D (-3266) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.027 ug/l

RT: 15.15 min Scan# 4171

Delta R.T. 0.27 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

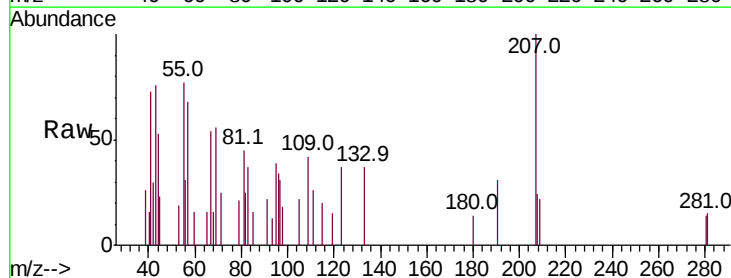
Tgt Ion: 180 Resp: 31

Ion Ratio Lower Upper

180 100

182 0.0 46.6 139.7#

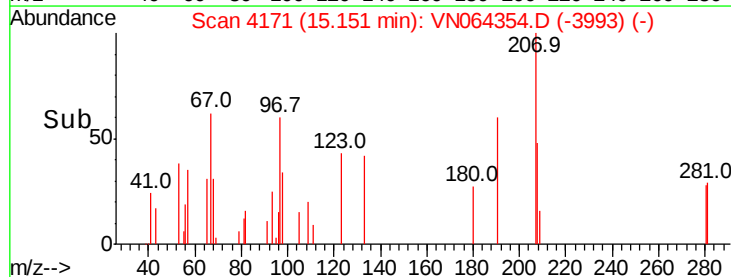
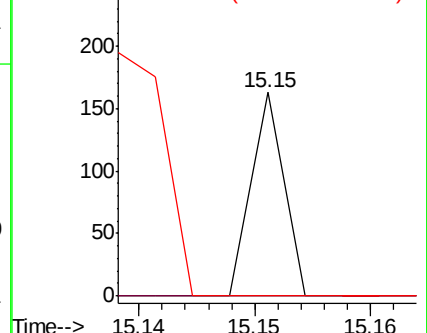
145 325.8 15.3 45.9#

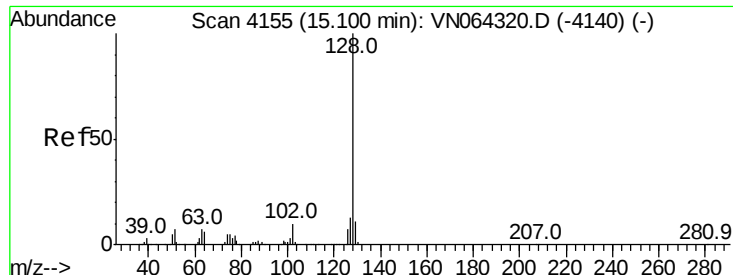


Abundance Ion 179.80 (179.50 to 180.50): VN064320.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN064320.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN064320.D (-4073) (-)





#95

Naphthalene

Concen: 2.462 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#06

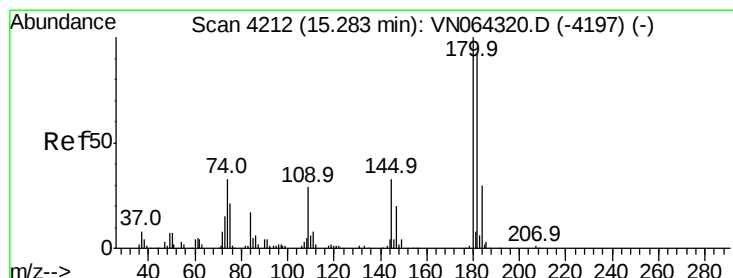
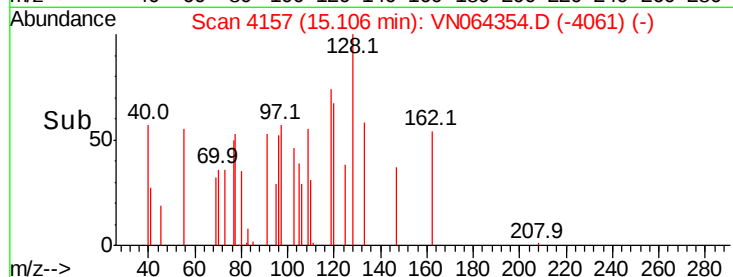
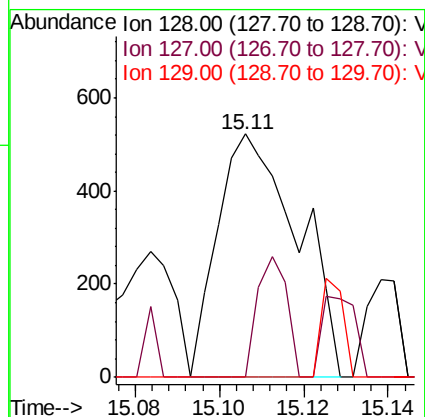
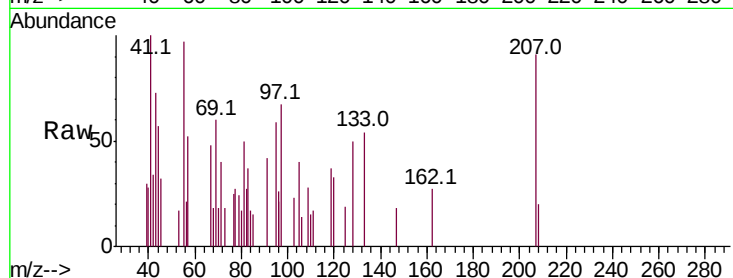
Tot Ion:128 Resp: 693

Ion Ratio Lower Upper

128 100

127 18.3 10.4 15.6#

129 0.0 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 2.192 ug/l

RT: 15.15 min Scan# 4171

Delta R.T. -0.13 min

Lab File: VN064354.D

Acq: 28 Oct 2020 15:57

Tgt Ion:180 Resp: 31

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 325.8 16.2 48.5#

