

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103020\
 Data File : VN064402.D
 Acq On : 30 Oct 2020 16:05
 Operator : JC/MD
 Sample : PB132725TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132725TB

Quant Time: Nov 02 02:06:12 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	7.63	168	210711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	369240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	387775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	158145	50.00	ug/l	0.00

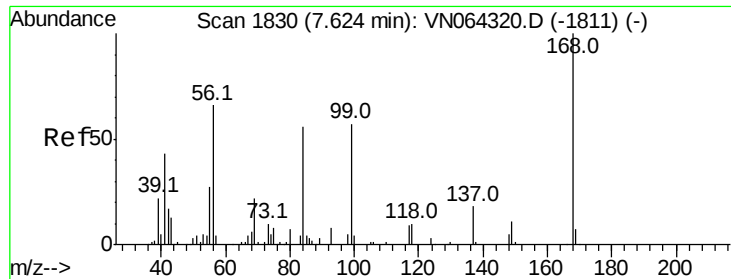
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	180945	53.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.88%	
35) Dibromofluoromethane	7.55	113	123254	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
50) Toluene-d8	10.06	98	483567	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.38	95	202800	57.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.22%	

Target Compounds

						Qvalue
13) Acrolein	3.41	56	31	17.949	ug/l #	1
16) Acetone	3.78	43	12710	3.775	ug/l	98
18) Methyl Acetate	4.27	43	1649	0.648	ug/l #	85
20) Methylene Chloride	4.51	84	6956	2.897	ug/l	84
25) 2-Butanone	6.78	43	1503	0.884	ug/l #	52
29) Tetrahydrofuran	7.17	42	742	0.672	ug/l #	59
31) Cyclohexane	7.62	56	5759	1.465	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	18541	4.975	ug/l #	48
38) Carbon Tetrachloride	7.62	117	23676	5.480	ug/l #	16
41) Methacrylonitrile	7.16	41	425	0.227	ug/l #	20
43) Isopropyl Acetate	8.13	43	80902	12.573	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1734	0.624	ug/l #	44
48) Methyl methacrylate	9.15	41	4721	1.422	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	7809	2.088	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	29988	6.398	ug/l #	67
56) Ethyl methacrylate	10.51	69	1168	0.299	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5004	1.135	ug/l #	42
59) 2-Hexanone	10.73	43	90118	32.714	ug/l #	51
74) N-amyl acetate	12.00	43	1533	0.294	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	115591	30.522	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2355	0.235	ug/l	82
81) trans-1,4-Dichloro-2-buten	12.38	75	115591	87.919	ug/l #	8
95) Naphthalene	15.10	128	100	2.403	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

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MSVOA_N

ClientSampleId :

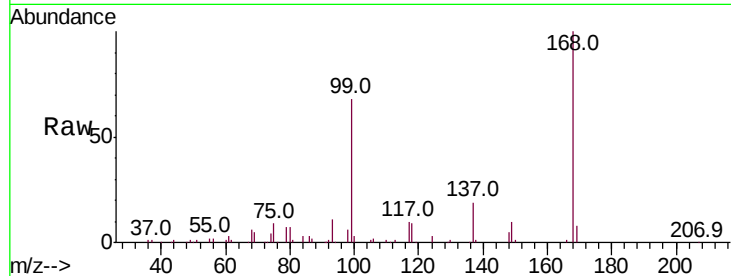
PB132725TB

Tot Ion:168 Resp: 210711

Ion Ratio Lower Upper

168 100

99 67.9 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064402.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064402.D (-1737) (-)

7.63

100000

80000

60000

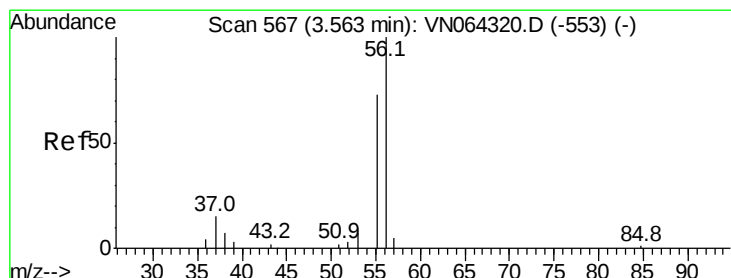
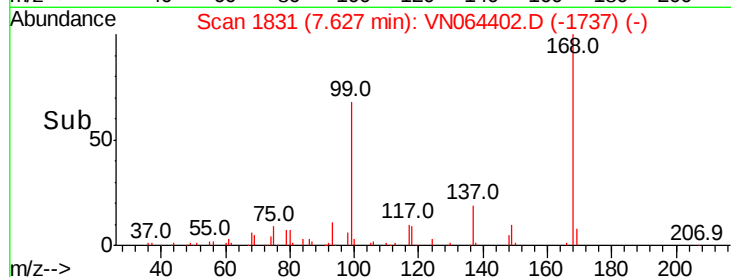
40000

20000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#13

Acrolein

Concen: 17.949 ug/l

RT: 3.41 min Scan# 518

Delta R.T. -0.16 min

Lab File: VN064402.D

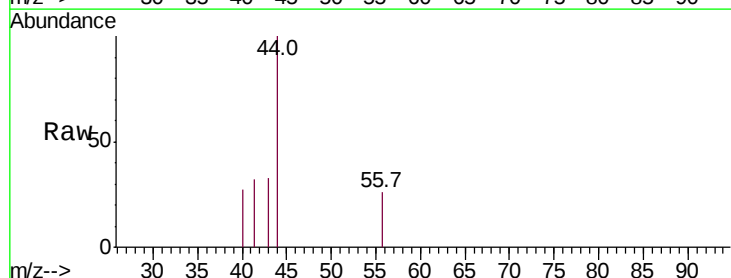
Acq: 30 Oct 2020 16:05

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 238.7 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN064402.D (-474) (-)

Ion 55.00 (54.70 to 55.70): VN064402.D (-474) (-)

3.41

150

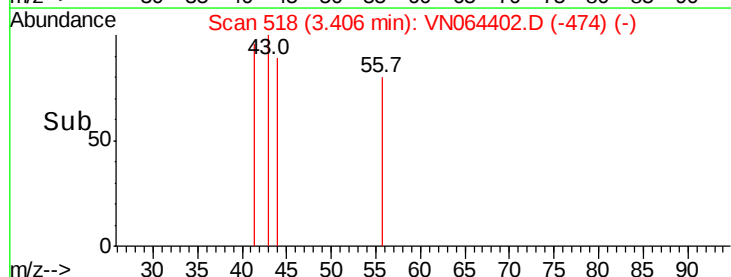
100

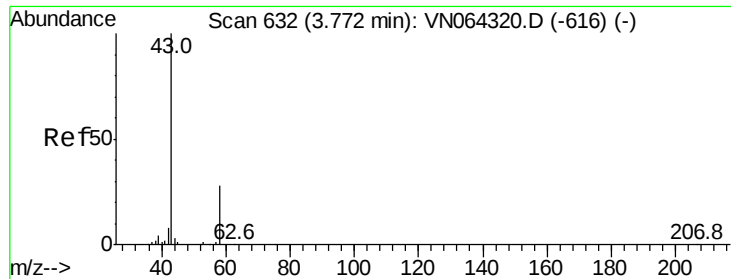
50

0

3.40 3.40 3.41 3.42

Time-->





#16

Acetone

Concen: 3.775 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

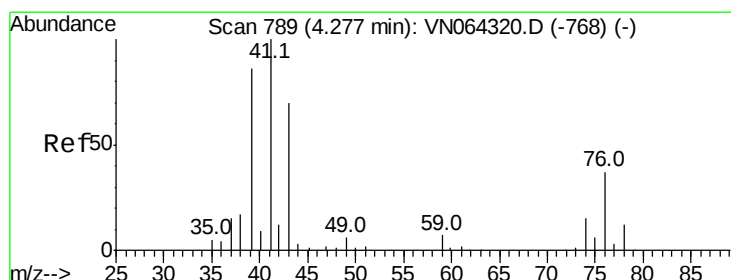
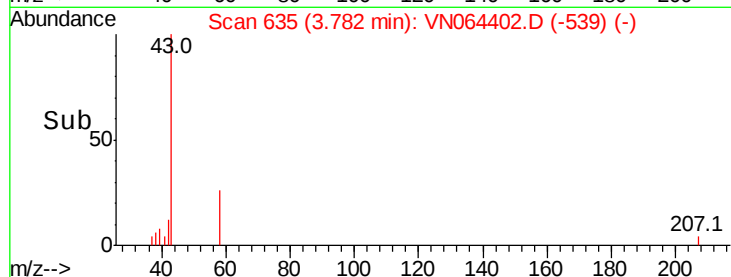
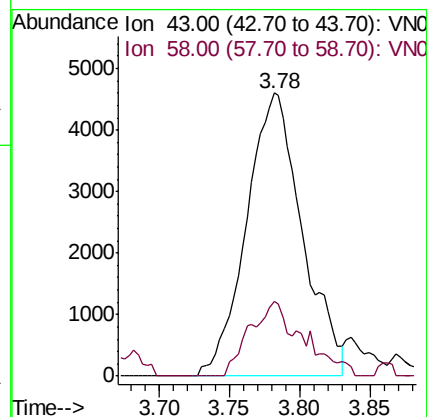
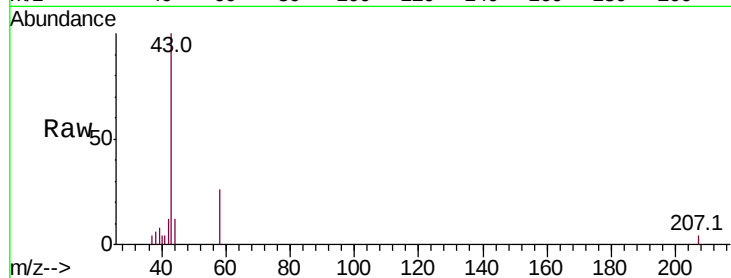
PB132725TB

Tot Ion: 43 Resp: 12710

Ion Ratio Lower Upper

43 100

58 26.5 22.1 33.1



#18

Methyl Acetate

Concen: 0.648 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN064402.D

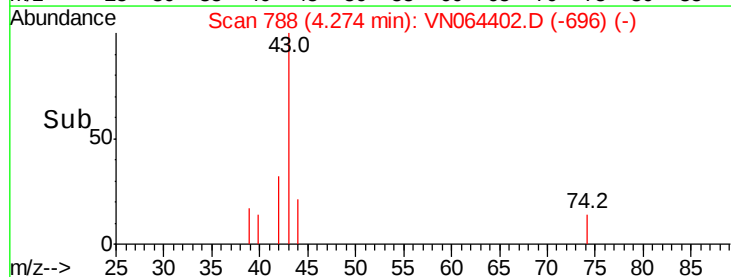
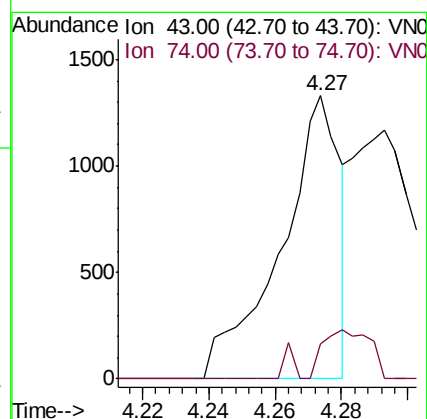
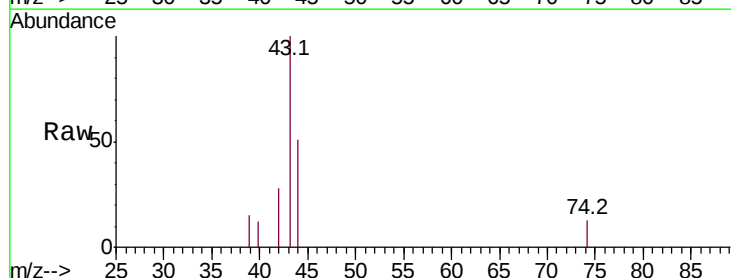
Acq: 30 Oct 2020 16:05

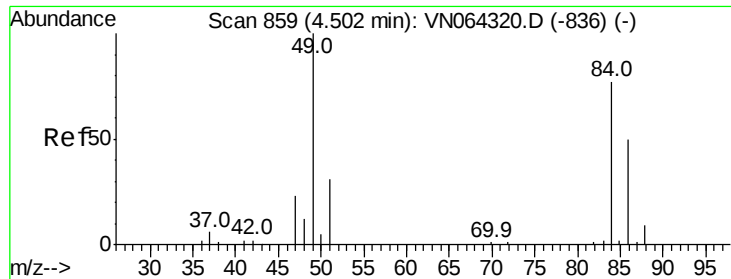
Tgt Ion: 43 Resp: 1649

Ion Ratio Lower Upper

43 100

74 13.9 16.7 25.1#

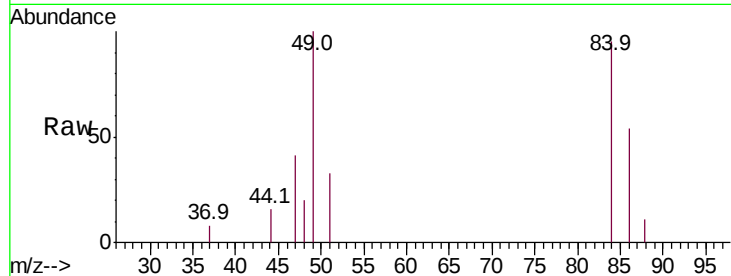




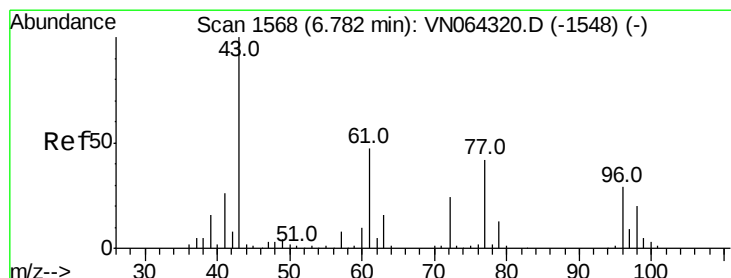
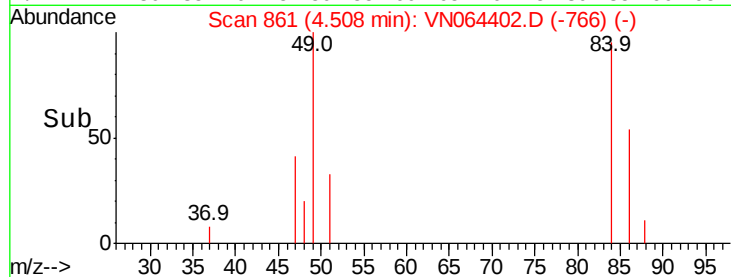
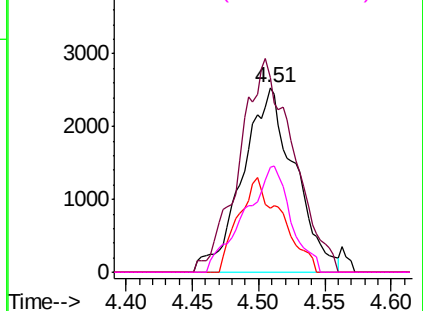
#20
Methvlene Chloride
Concen: 2.897 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
PB132725TB

Tot Ion:	84	Resp:	6956
Ion	Ratio	Lower	Upper
84	100		
49	105.2	103.6	155.4
51	34.8	31.8	47.8
86	56.8	51.3	76.9

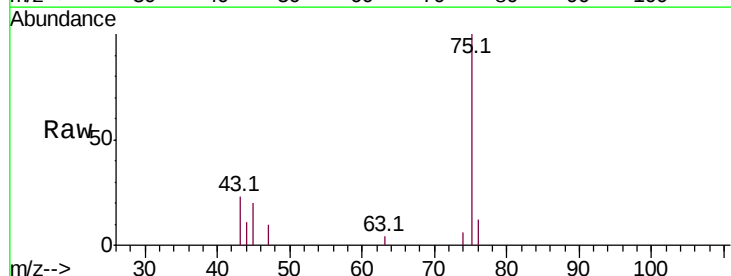


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

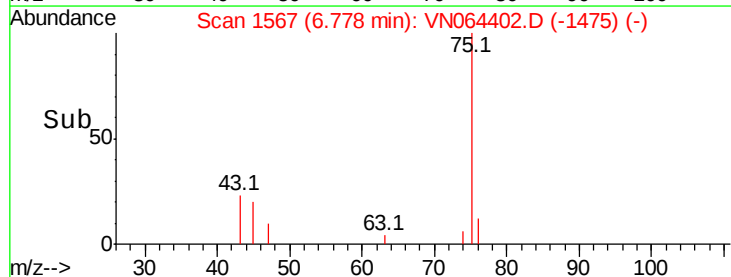
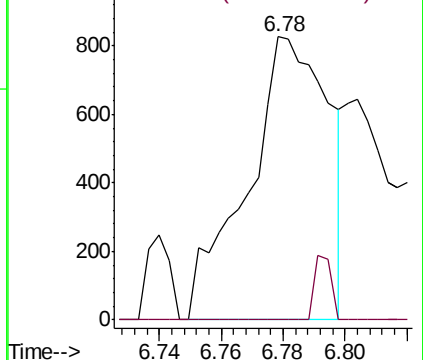


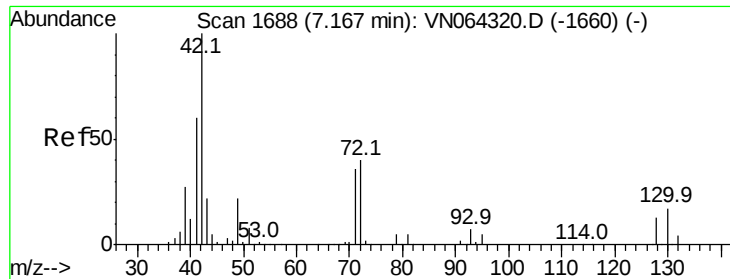
#25
2-Butanone
Concen: 0.884 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Tgt Ion:	43	Resp:	1503
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.8	28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.672 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB132725TB

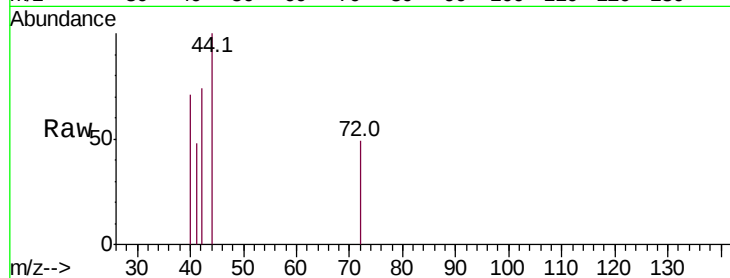
Tot Ion: 42 Resp: 742

Ion Ratio Lower Upper

42 100

72 26.7 31.6 47.4#

71 0.0 29.4 44.0#

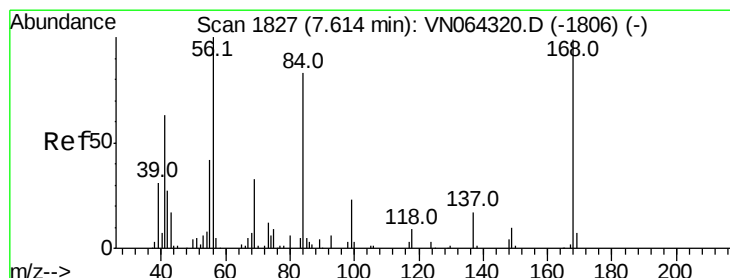
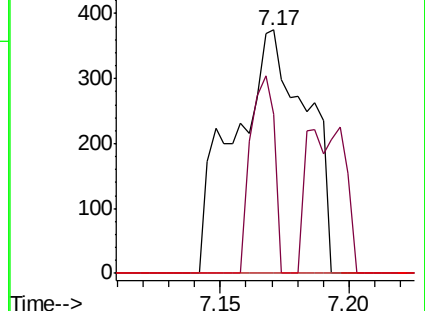
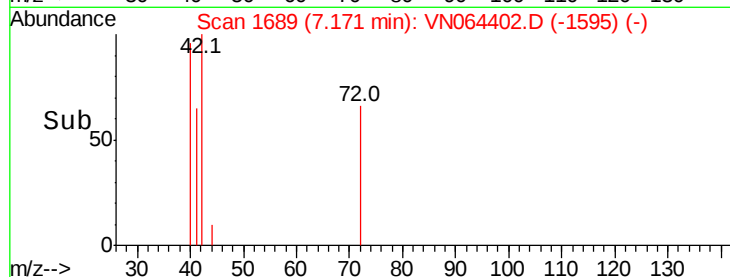


Abundance Ion 42.00 (41.70 to 42.70): VN064402.D (-1660) (-)

Ion 72.00 (71.70 to 72.70): VN064402.D (-1660) (-)

Ion 71.00 (70.70 to 71.70): VN064402.D (-1660) (-)

Time-->



#31

Cyclohexane

Concen: 1.465 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

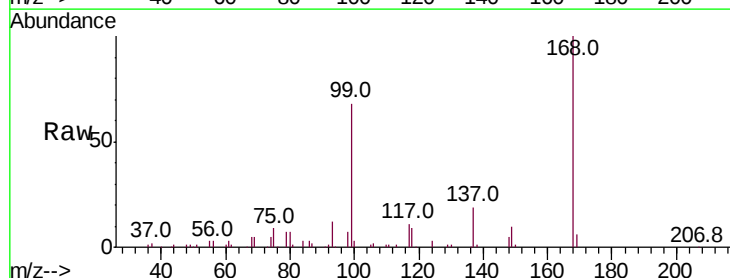
Tgt Ion: 56 Resp: 5759

Ion Ratio Lower Upper

56 100

69 173.5 25.8 38.8#

84 84.9 66.3 99.5

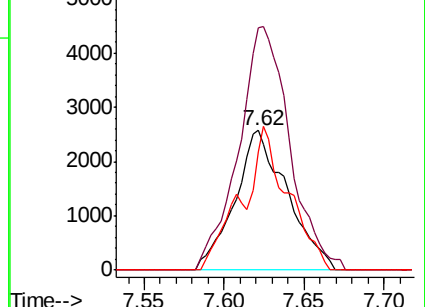
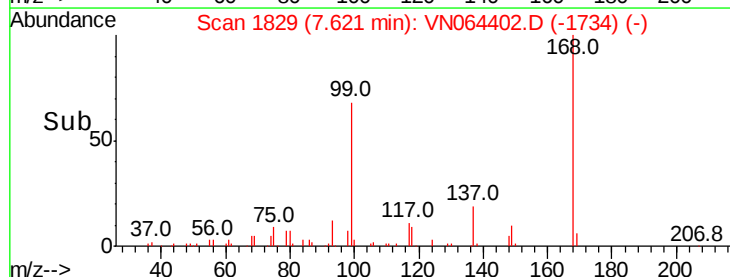


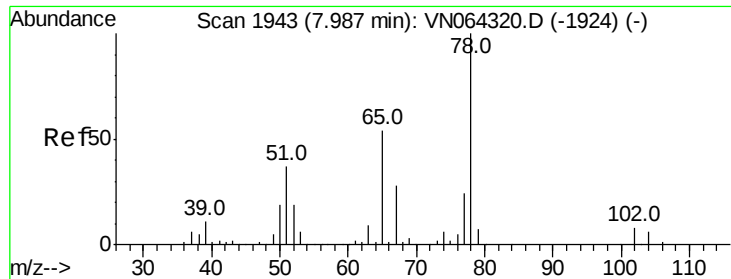
Abundance Ion 56.00 (55.70 to 56.70): VN064402.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN064402.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN064402.D (-1806) (-)

Time-->





#33

1,2-Dichloroethane-d4

Concen: 53.438 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

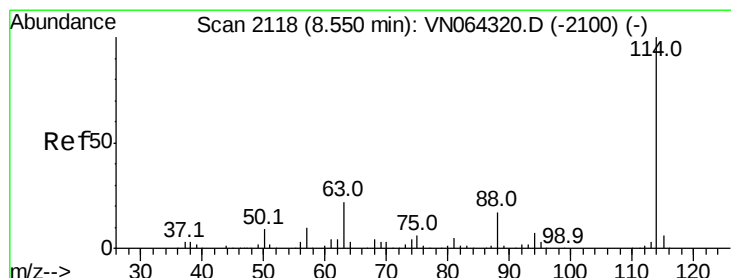
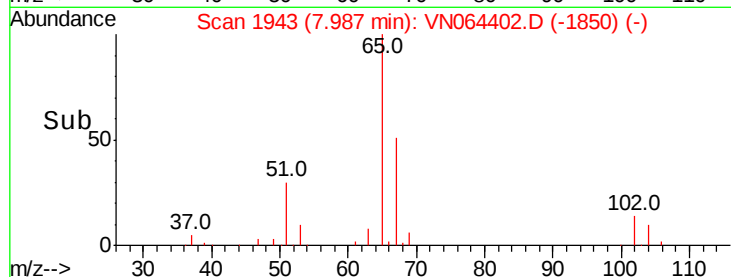
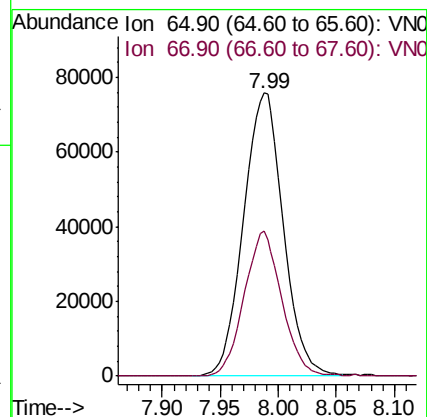
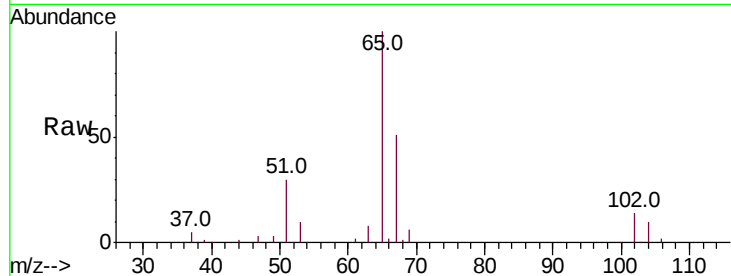
PB132725TB

Tot Ion: 65 Resp: 180945

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: VN064402.D

Acq: 30 Oct 2020 16:05

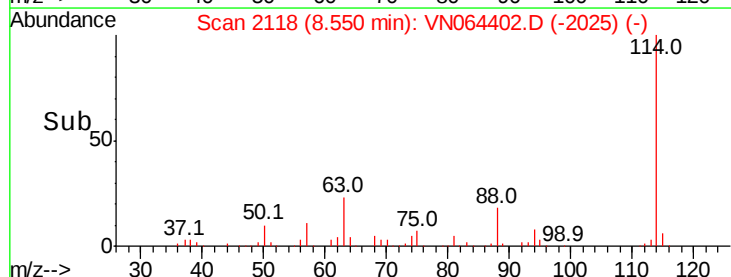
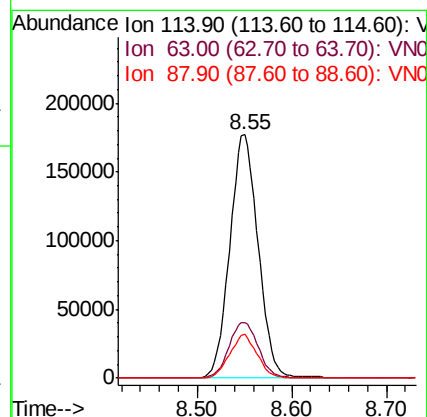
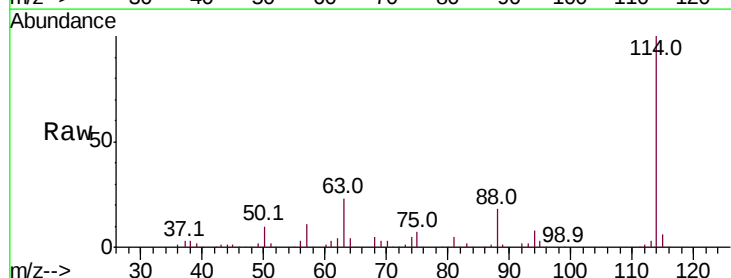
Tgt Ion: 114 Resp: 369240

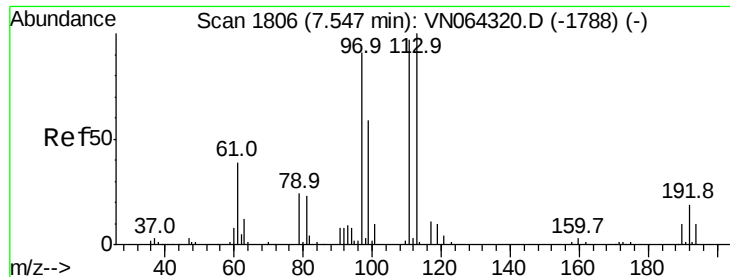
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.9 0.0 33.4

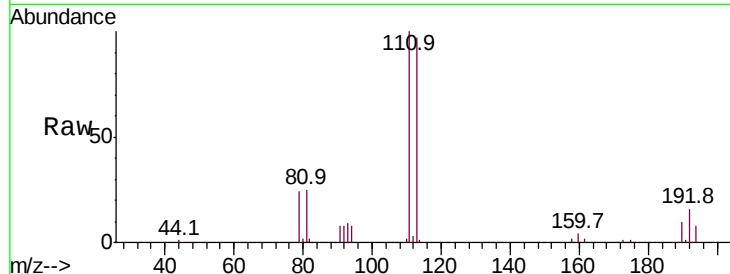




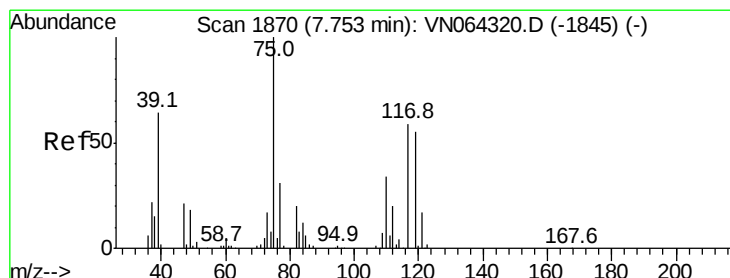
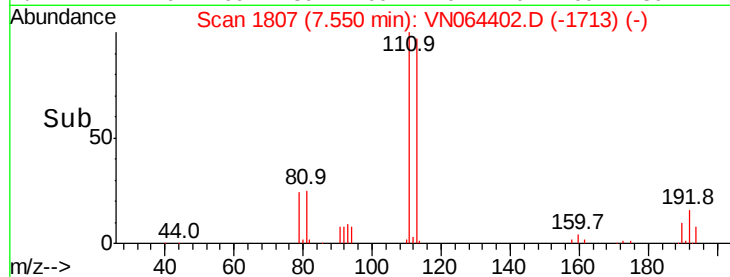
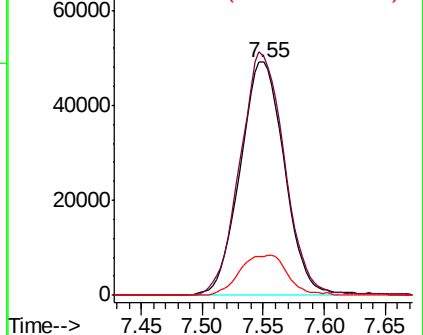
#35
Dibromofluoromethane
Concen: 50.055 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
PB132725TB

Tot Ion:113 Resp: 123254
Ion Ratio Lower Upper
113 100
111 104.9 81.5 122.3
192 18.8 15.0 22.4

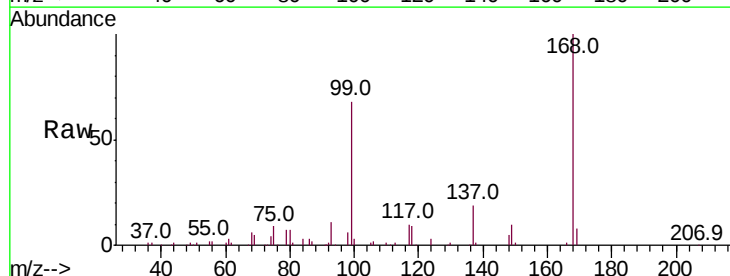


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

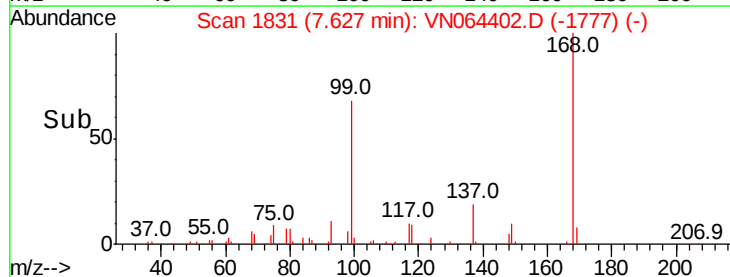
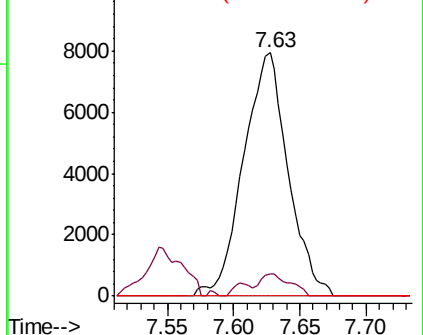


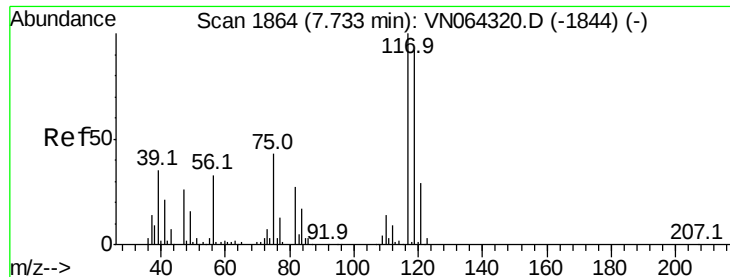
#36
1,1-Dichloropropene
Concen: 4.975 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Tgt Ion: 75 Resp: 18541
Ion Ratio Lower Upper
75 100
110 6.1 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: 5.480 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB132725TB

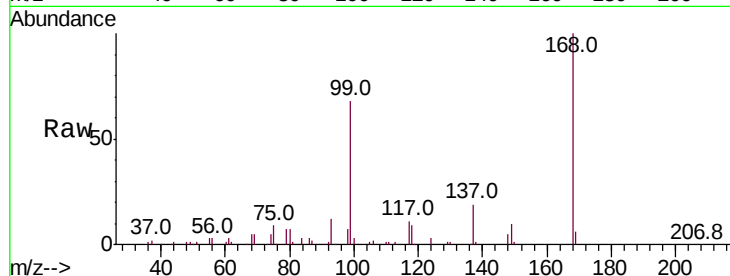
Tot Ion:117 Resp: 23676

Ion Ratio Lower Upper

117 100

119 3.4 73.7 110.5#

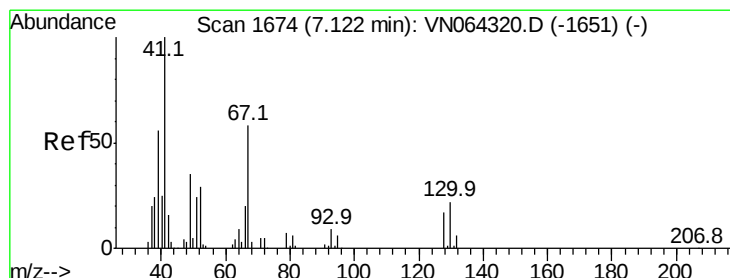
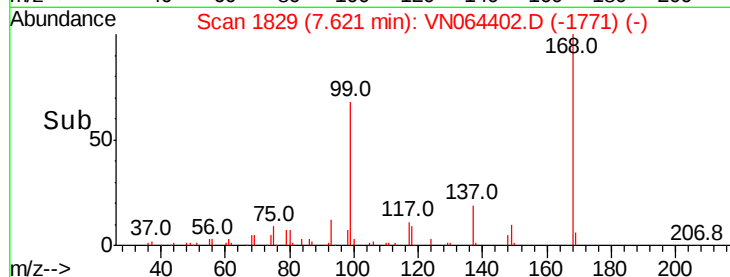
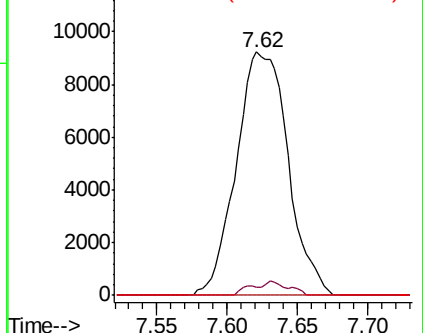
121 0.0 22.8 34.2#



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



#41

Methacrylonitrile

Concen: 0.227 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Tgt Ion: 41 Resp: 425

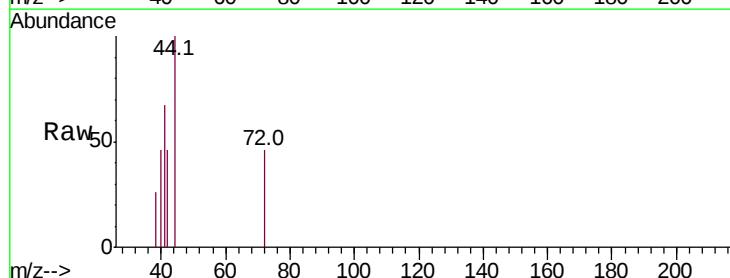
Ion Ratio Lower Upper

41 100

39 0.0 48.6 72.8#

67 0.0 61.4 92.2#

52 0.0 27.6 41.4#

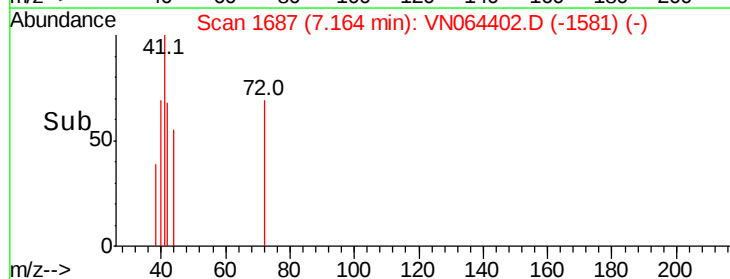
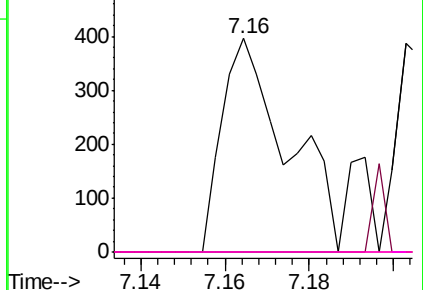


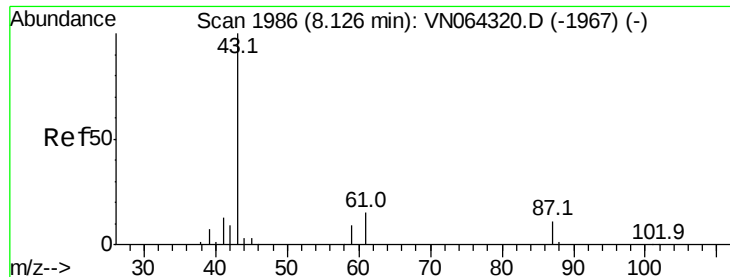
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 12.573 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB132725TB

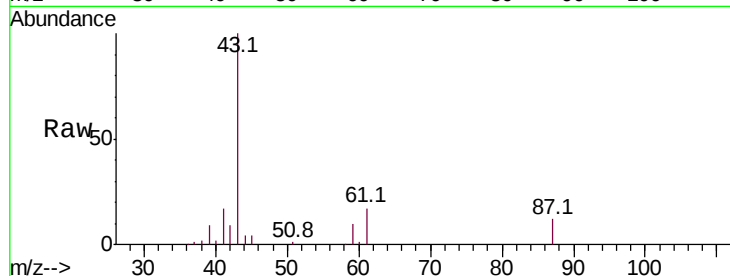
Tot Ion: 43 Resp: 80902

Ion Ratio Lower Upper

43 100

61 16.0 19.1 28.7#

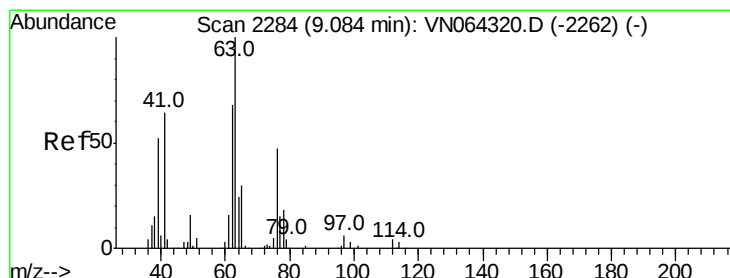
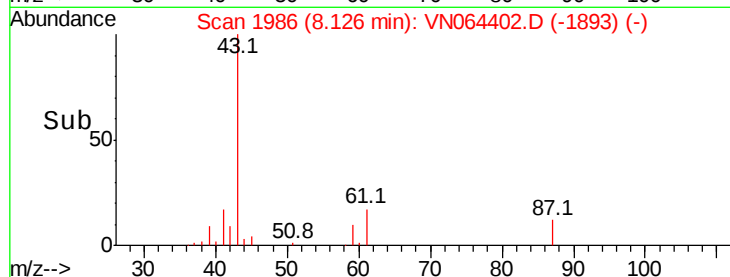
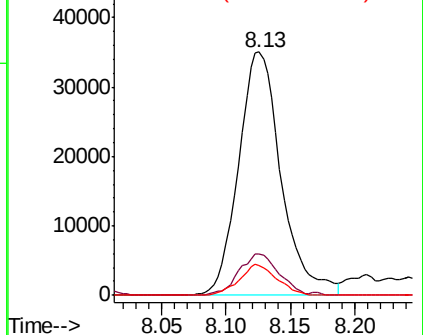
87 11.0 9.3 13.9



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: 0.624 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064402.D

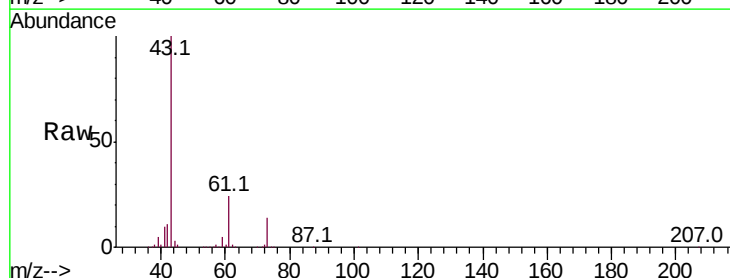
Acq: 30 Oct 2020 16:05

Tgt Ion: 63 Resp: 1734

Ion Ratio Lower Upper

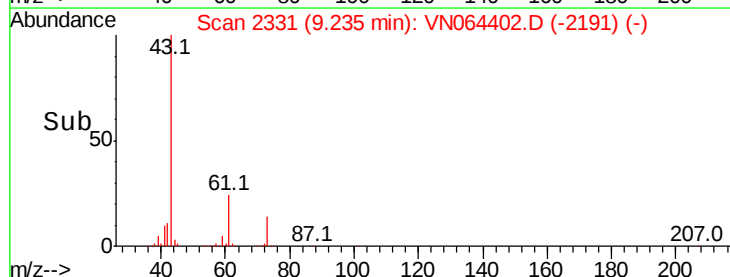
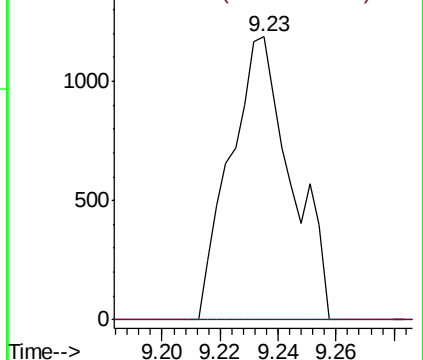
63 100

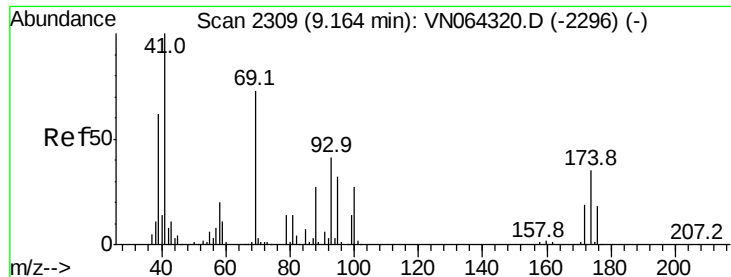
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methvl methacrylate

Concen: 1.422 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB132725TB

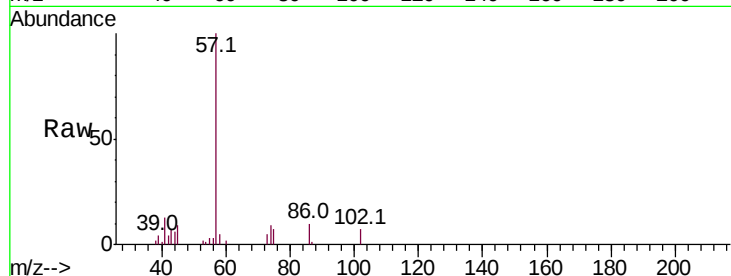
Tot Ion: 41 Resp: 4721

Ion Ratio Lower Upper

41 100

69 0.0 59.1 88.7#

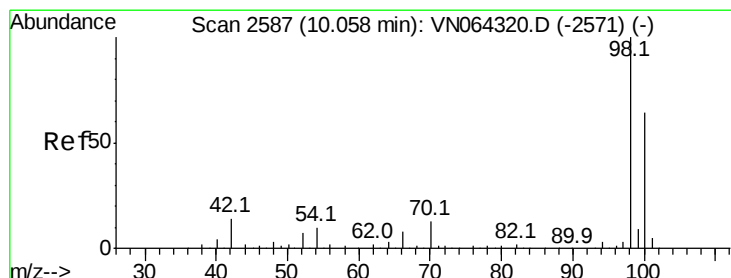
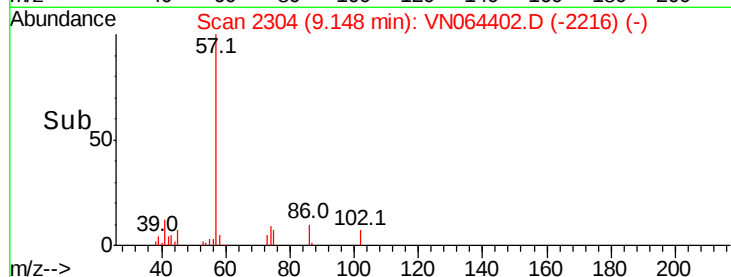
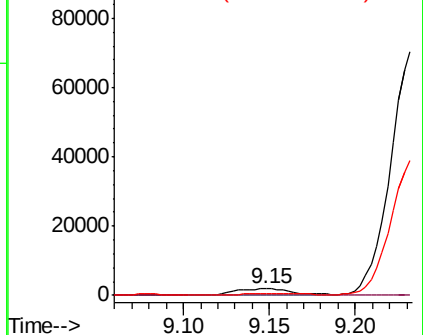
39 0.0 51.3 76.9#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 53.092 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064402.D

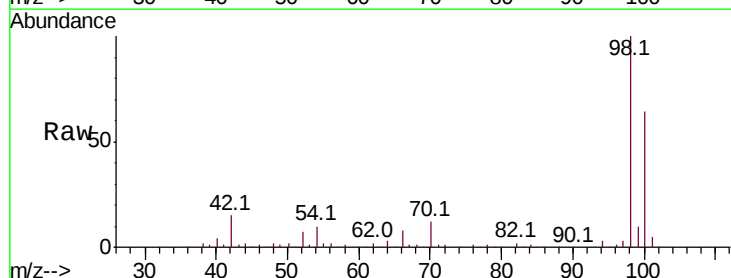
Acq: 30 Oct 2020 16:05

Tgt Ion: 98 Resp: 483567

Ion Ratio Lower Upper

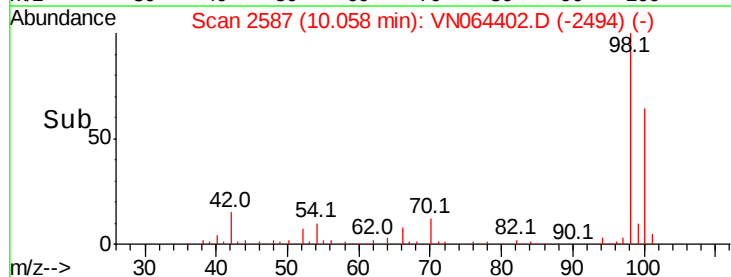
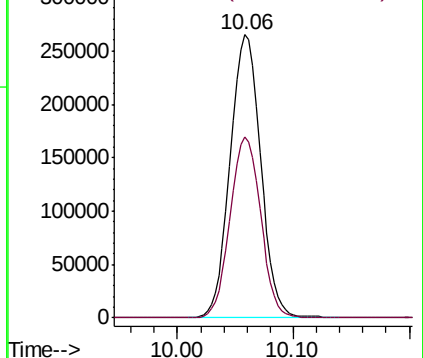
98 100

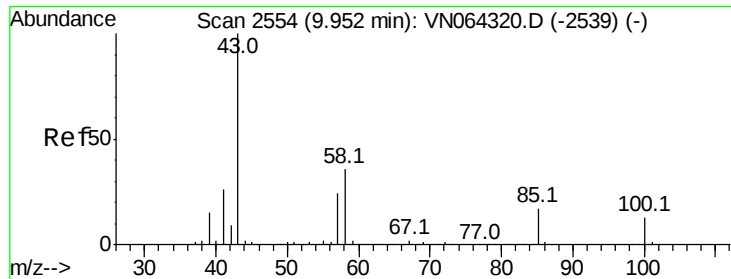
100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

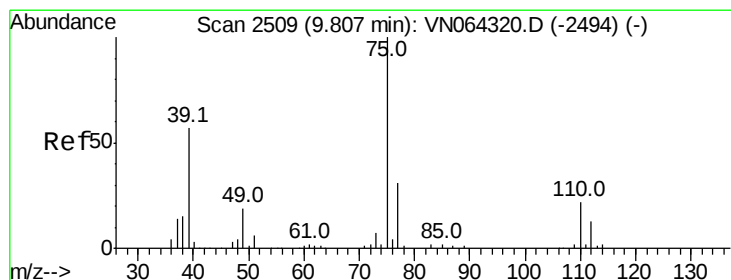
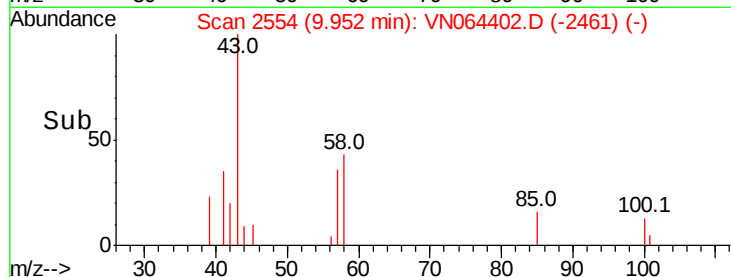
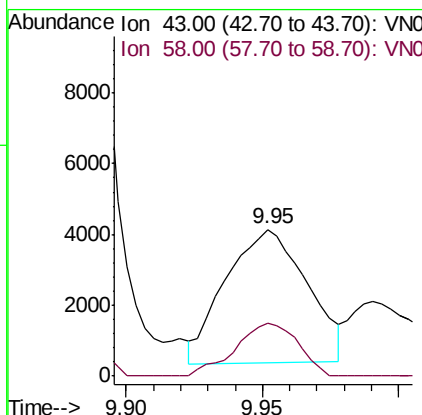
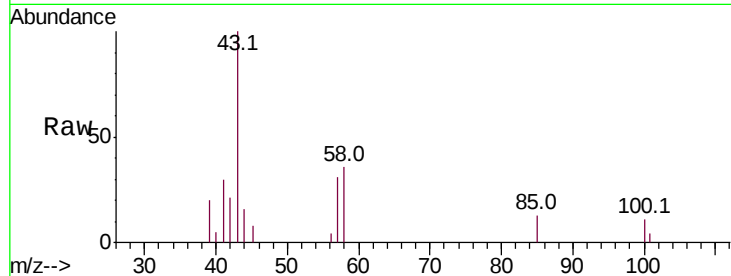




#51
4-Methyl-2-Pentanone
Concen: 2.088 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

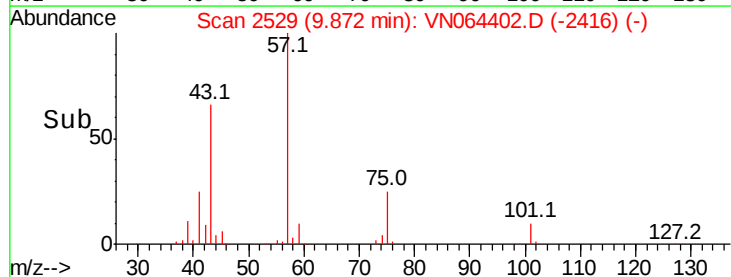
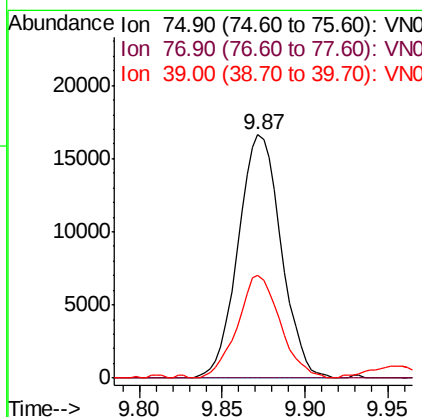
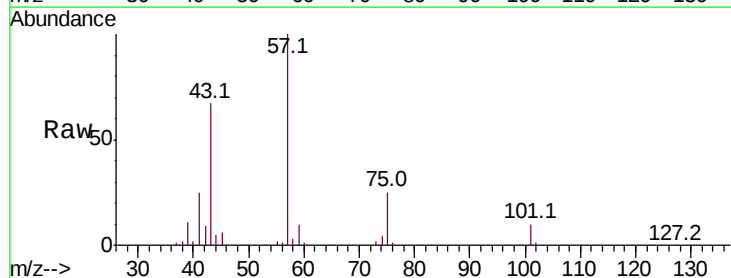
Instrument :
MSVOA_N
ClientSampled :
PB132725TB

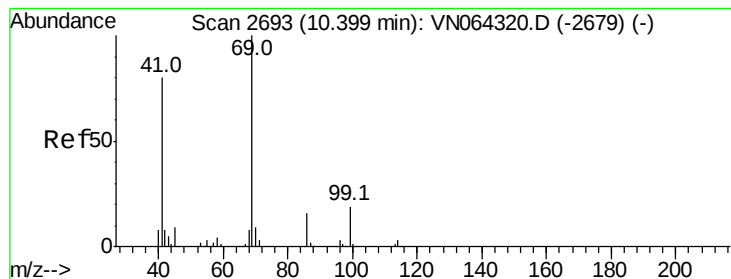
Tot Ion: 43 Resp: 7809
Ion Ratio Lower Upper
43 100
58 30.6 28.6 42.8



#54
cis-1,3-Dichloropropene
Concen: 6.398 ug/l
RT: 9.87 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Tgt Ion: 75 Resp: 29988
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 42.4 45.5 68.3#





#56

Ethyl methacrylate

Concen: 0.299 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleID :

PB132725TB

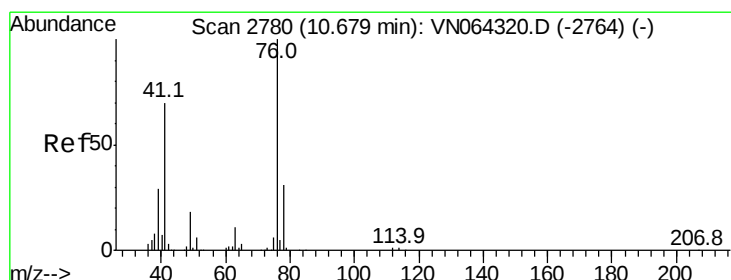
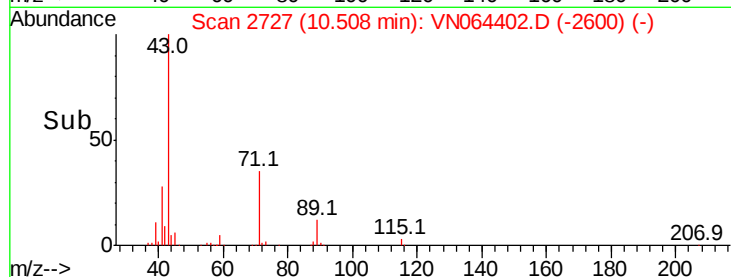
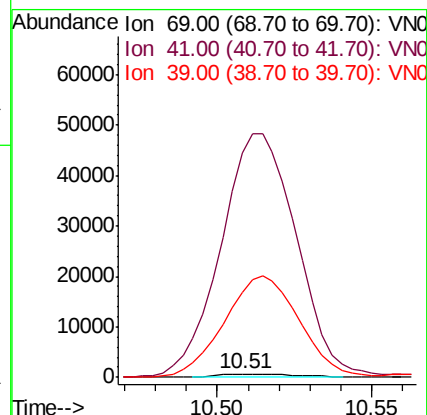
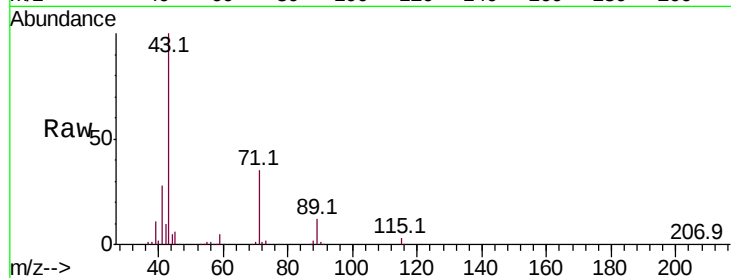
Tot Ion: 69 Resp: 1168

Ion Ratio Lower Upper

69 100

41 7059.2 61.4 92.2#

39 2909.0 36.5 54.7#



#57

1,3-Dichloropropane

Concen: 1.135 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064402.D

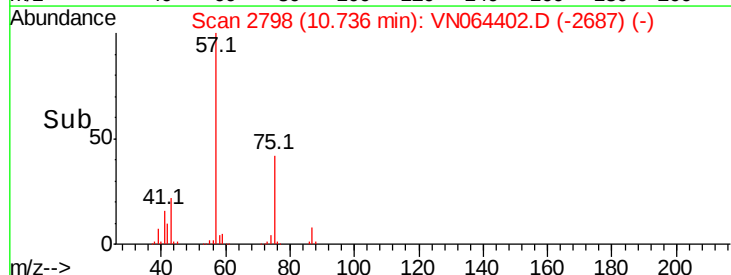
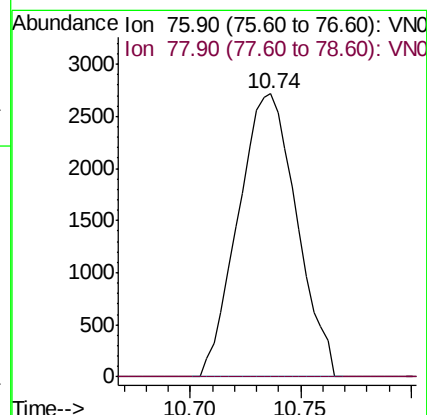
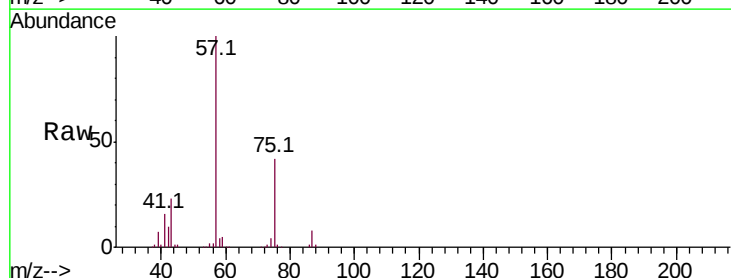
Acq: 30 Oct 2020 16:05

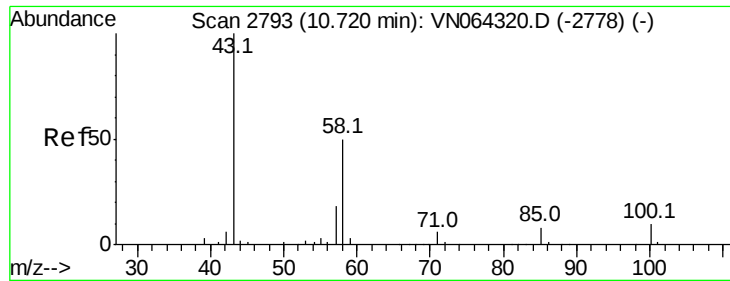
Tgt Ion: 76 Resp: 5004

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#





#59

2-Hexanone

Concen: 32.714 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

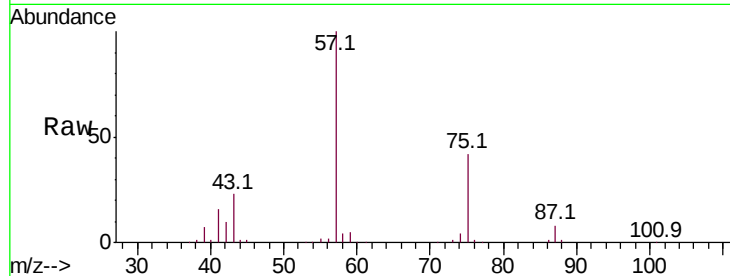
PB132725TB

Tot Ion: 43 Resp: 90118

Ion Ratio Lower Upper

43 100

58 16.0 25.0 75.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.73

60000

50000

40000

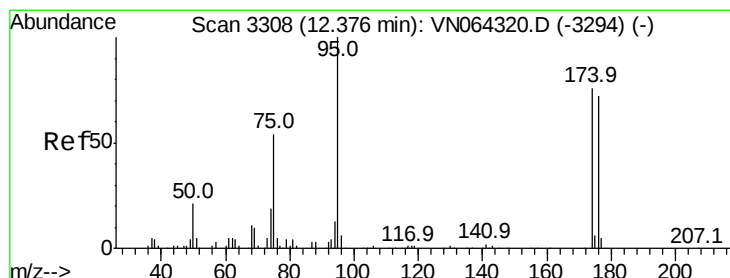
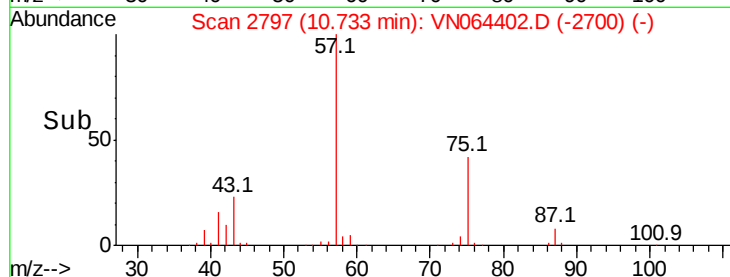
30000

20000

10000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 57.108 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064402.D

Acq: 30 Oct 2020 16:05

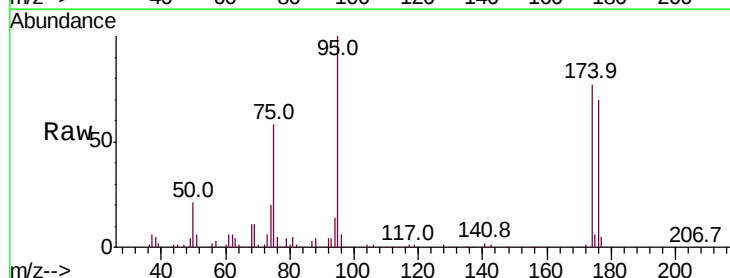
Tgt Ion: 95 Resp: 202800

Ion Ratio Lower Upper

95 100

174 74.0 0.0 147.4

176 71.0 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

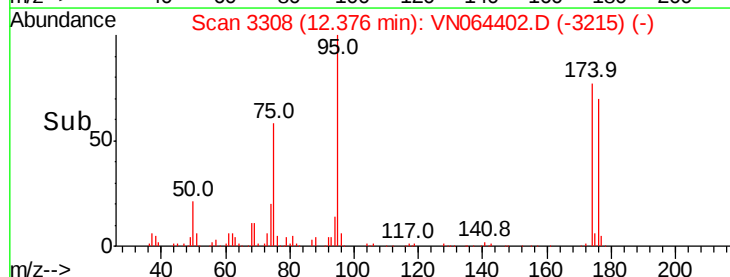
150000

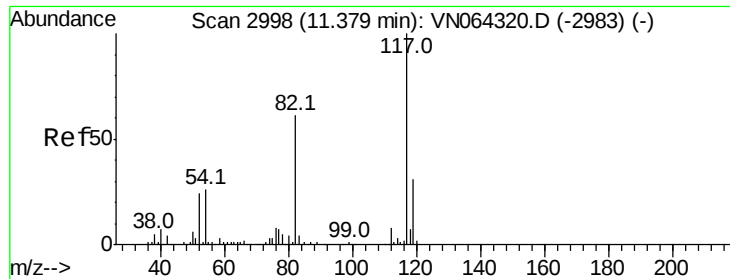
100000

50000

0

Time-->

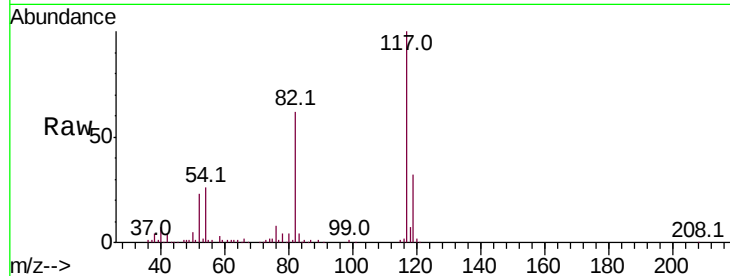




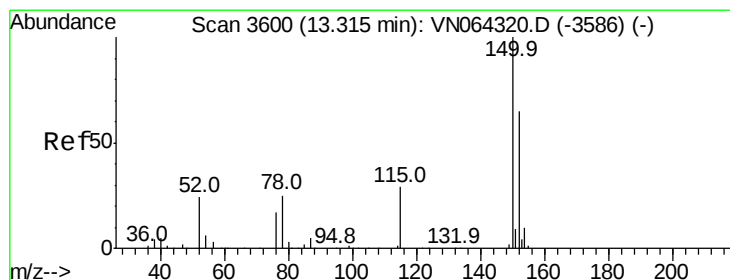
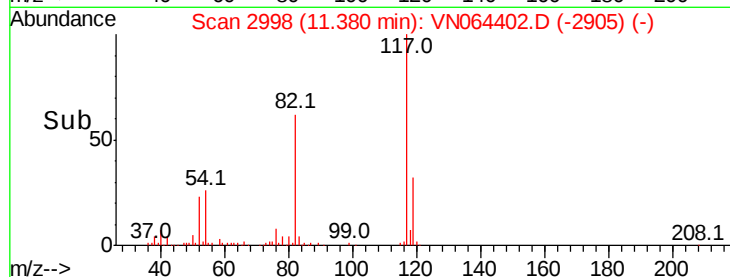
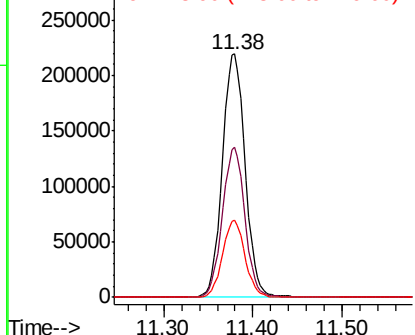
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Instrument :
MSVOA_N
ClientSampleId :
PB132725TB

Tot Ion:117 Resp: 387775
Ion Ratio Lower Upper
117 100
82 61.9 48.8 73.2
119 31.7 25.1 37.7

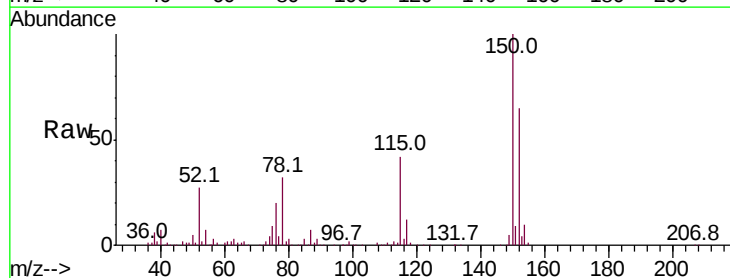


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

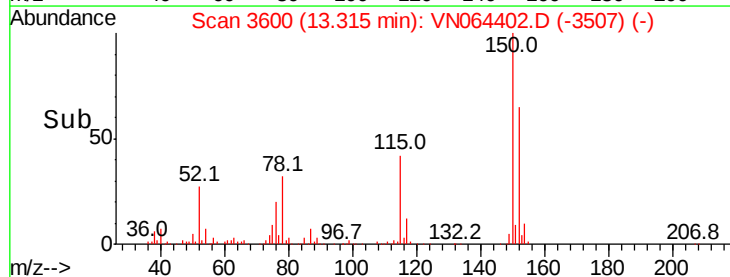
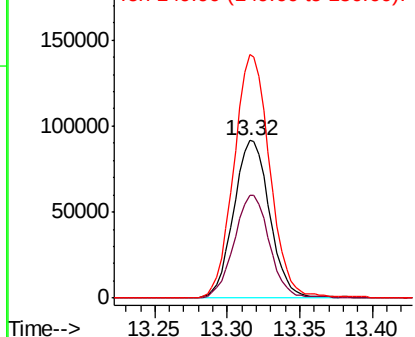


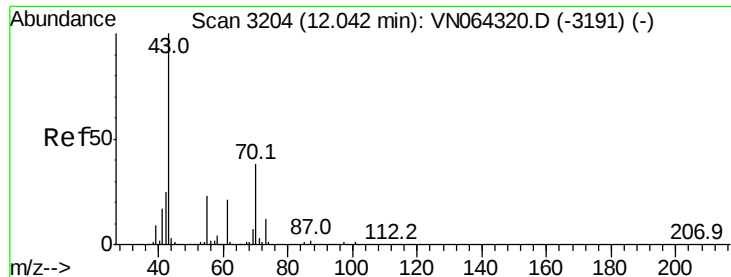
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Tgt Ion:152 Resp: 158145
Ion Ratio Lower Upper
152 100
115 64.2 31.5 94.5
150 154.5 0.0 346.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

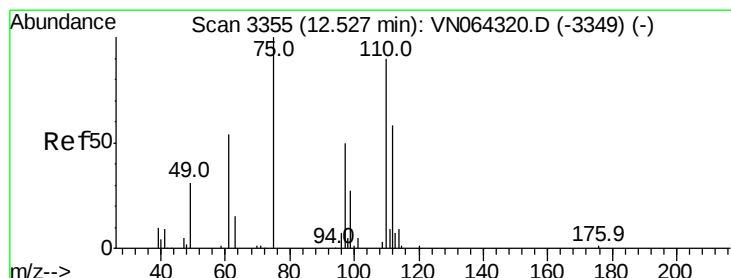
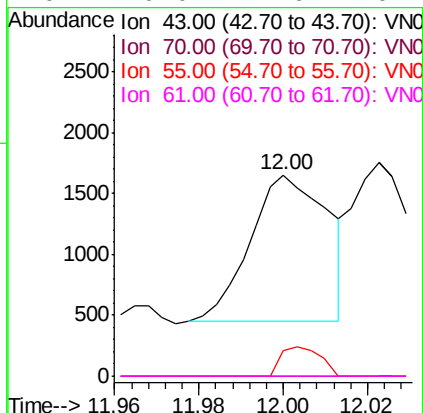
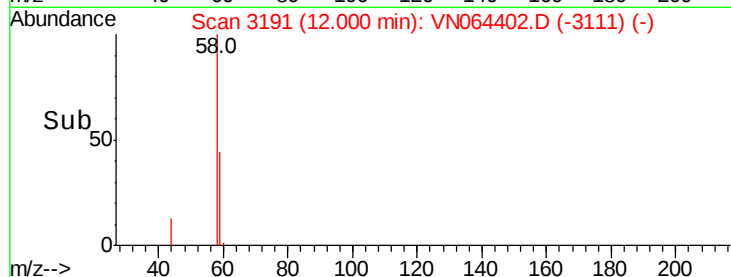
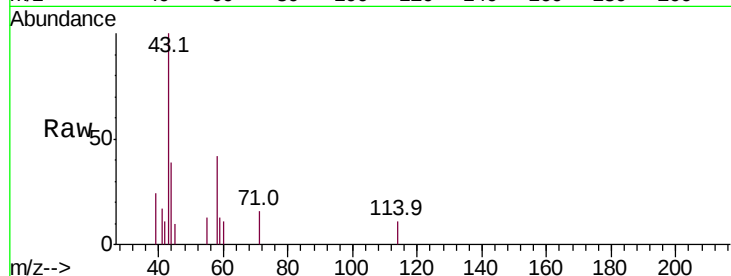




#74
N-amvl acetate
Concen: 0.294 ug/l
RT: 12.00 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

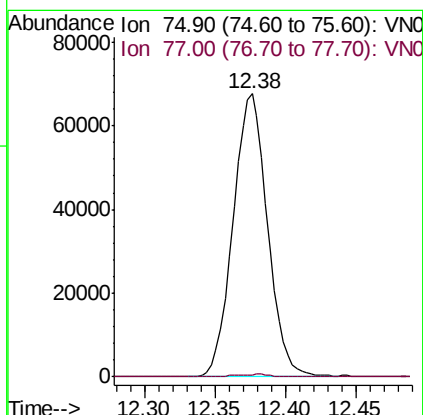
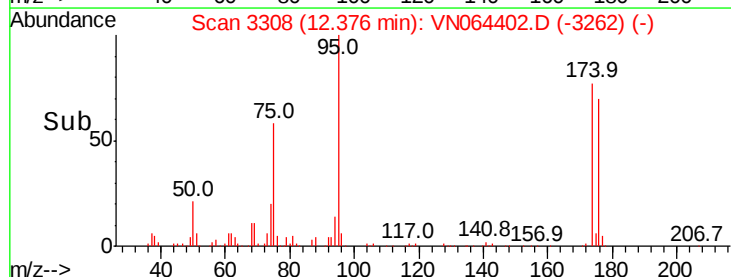
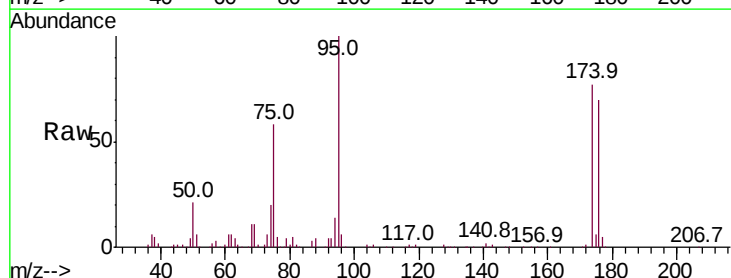
Instrument :
MSVOA_N
ClientSampled :
PB132725TB

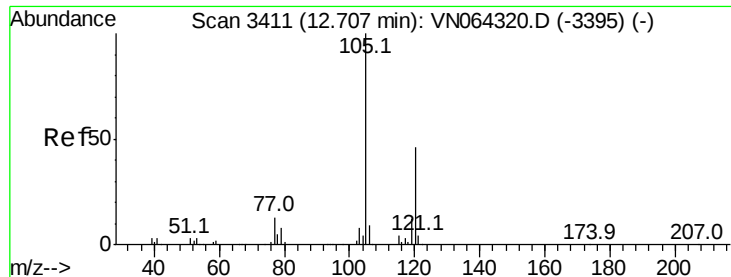
Tot Ion: 43 Resp: 1533
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 10.2 18.2 27.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 30.522 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064402.D
Acq: 30 Oct 2020 16:05

Tgt Ion: 75 Resp: 115591
Ion Ratio Lower Upper
75 100
77 0.5 0.0 0.0#

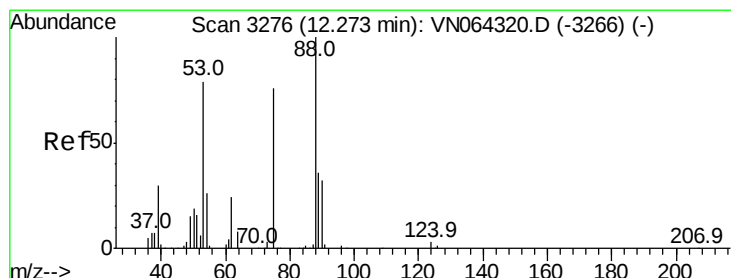
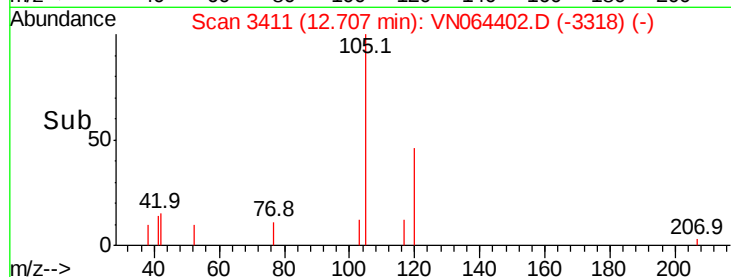
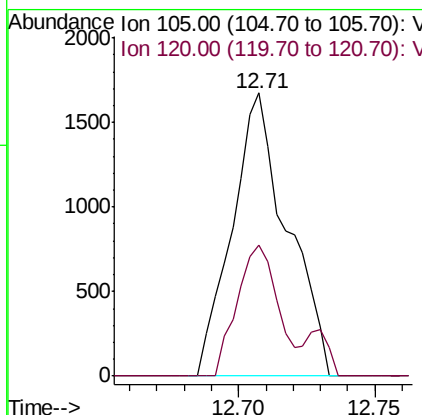
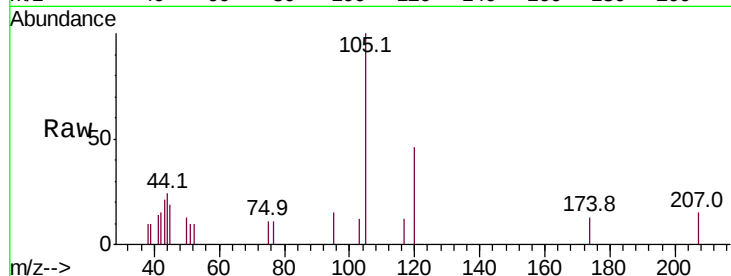




#80
 1,3,5-Trimethylbenzene
 Concen: 0.235 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064402.D
 Acq: 30 Oct 2020 16:05

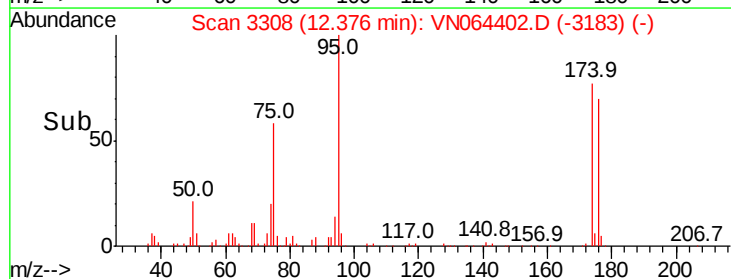
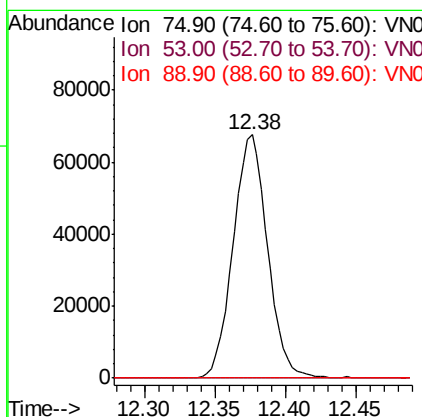
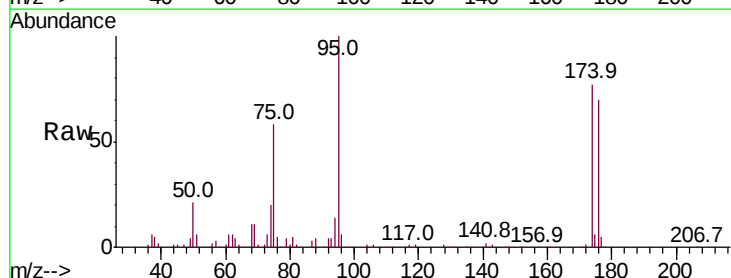
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132725TB

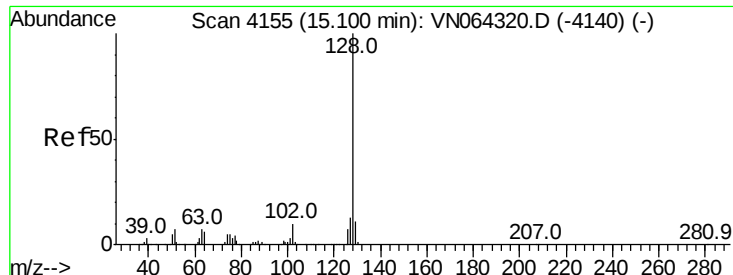
Tot Ion:105 Resp: 2355
 Ion Ratio Lower Upper
 105 100
 120 33.9 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.919 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064402.D
 Acq: 30 Oct 2020 16:05

Tgt Ion: 75 Resp: 115591
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.8 122.8#
 89 0.0 39.9 59.9#





#95

Naphthalene

Concen: 2.403 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064402.D

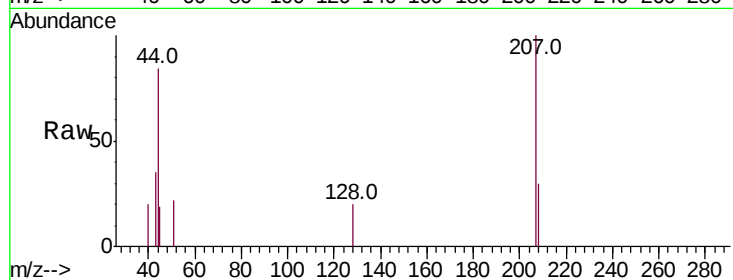
Acq: 30 Oct 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB132725TB



Tot Ion:128 Resp: 100

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#

