

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103020\
 Data File : VN064403.D
 Acq On : 30 Oct 2020 16:29
 Operator : JC/MD
 Sample : PB132725ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132725ZHE#07

Quant Time: Nov 02 02:07:05 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	219651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	392071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	403218	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	167832	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	182580	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
35) Dibromofluoromethane	7.55	113	130583	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
50) Toluene-d8	10.06	98	509986	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.37	95	210712	55.88	ug/l	0.00
Spiked Amount			Recovery	=	111.76%	

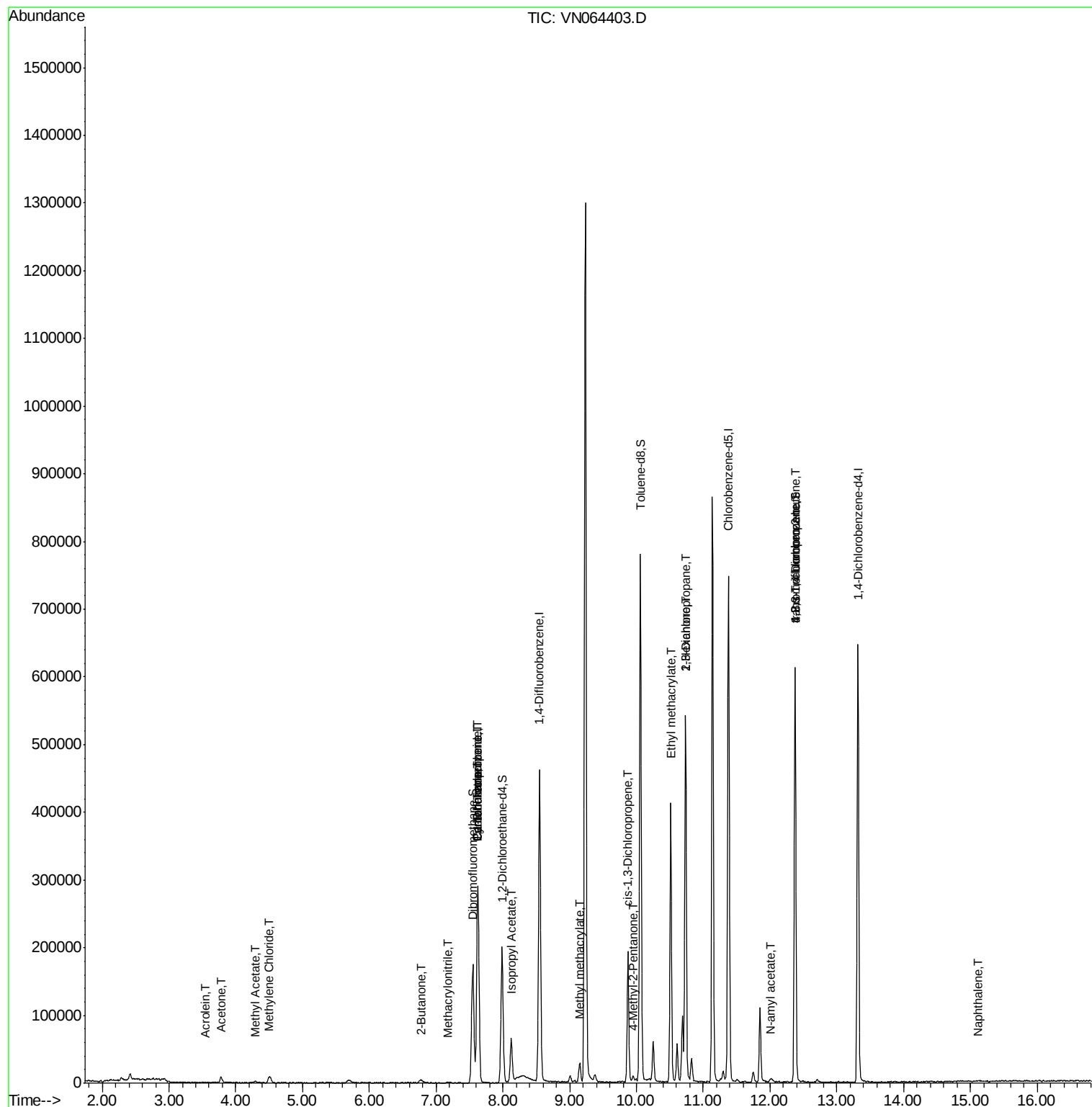
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.55	56	31	17.939	ug/l #	10
16) Acetone	3.78	43	13109	3.655	ug/l	92
18) Methyl Acetate	4.29	43	3261	1.230	ug/l #	76
20) Methylene Chloride	4.50	84	3840	1.534	ug/l #	90
25) 2-Butanone	6.77	43	636	0.359	ug/l #	60
31) Cyclohexane	7.62	56	5931	1.448	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	19929	5.037	ug/l #	49
38) Carbon Tetrachloride	7.63	117	24567	5.355	ug/l #	18
41) Methacrylonitrile	7.17	41	465	0.234	ug/l #	35
43) Isopropyl Acetate	8.13	43	80895	11.840	ug/l #	90
48) Methyl methacrylate	9.14	41	4037	1.145	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	6568	1.654	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	31153	6.259	ug/l #	64
56) Ethyl methacrylate	10.51	69	1382	0.333	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5271	1.126	ug/l #	47
59) 2-Hexanone	10.74	43	90760	31.029	ug/l #	50
74) N-amyl acetate	12.00	43	3230	0.584	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	119793	29.806	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119793	85.856	ug/l #	8
95) Naphthalene	15.11	128	342	2.427	ug/l #	69

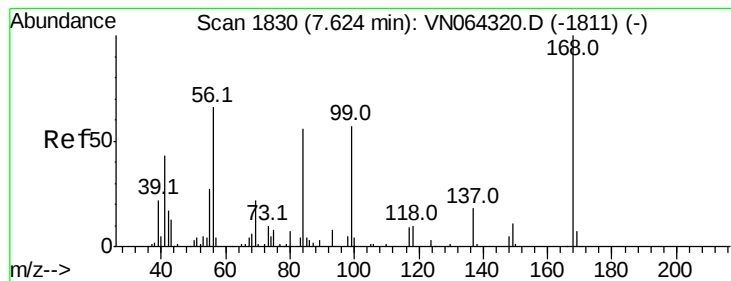
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

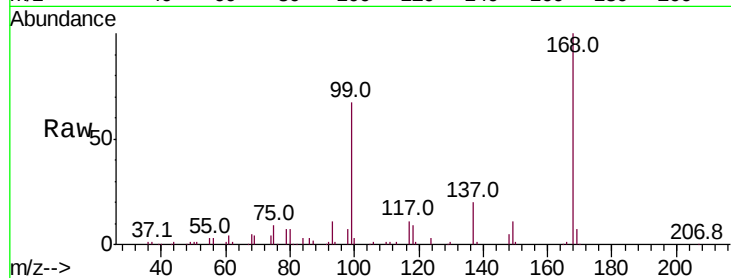
PB132725ZHE#07

Tot Ion:168 Resp: 219651

Ion Ratio Lower Upper

168 100

99 67.0 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064403.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064403.D (-1737) (-)

7.62

100000

80000

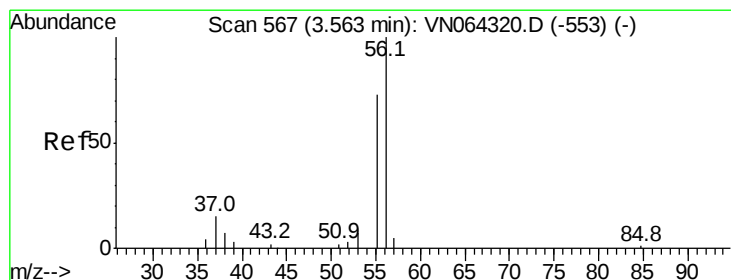
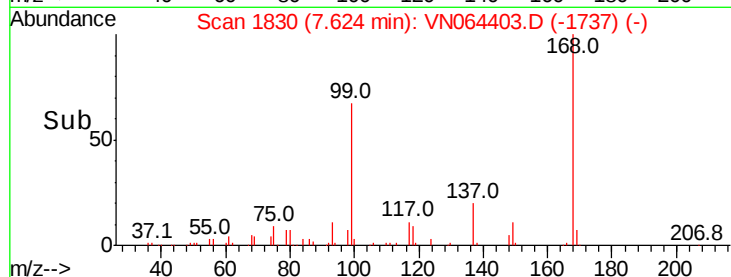
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 17.939 ug/l

RT: 3.55 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN064403.D

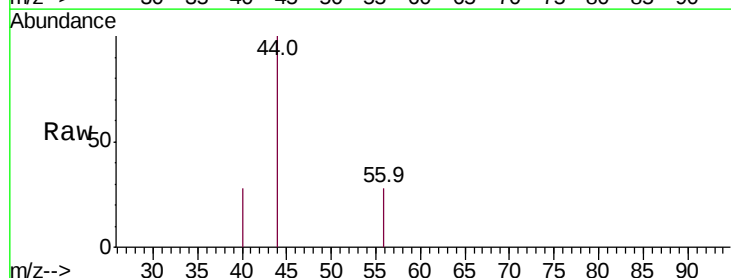
Acq: 30 Oct 2020 16:29

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 0.0 62.6 94.0#



Abundance Ion 56.00 (55.70 to 56.70): VN064403.D (-474) (-)

Ion 55.00 (54.70 to 55.70): VN064403.D (-474) (-)

3.55

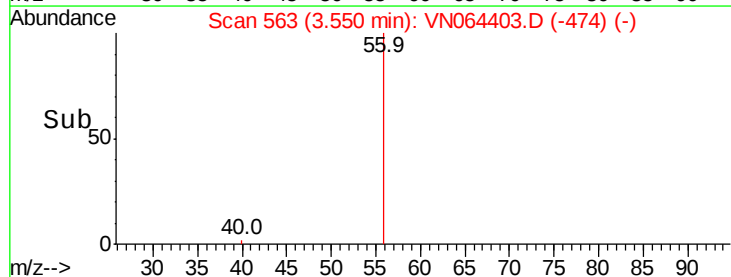
150

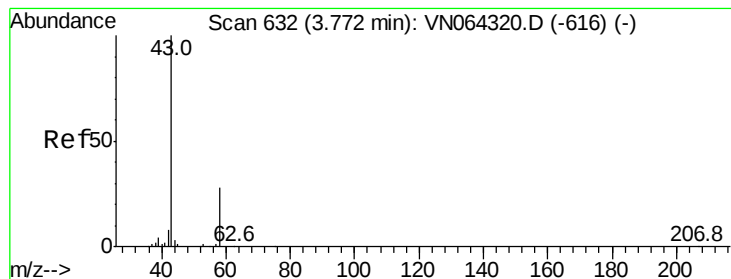
100

50

0

Time--> 3.54 3.54 3.55 3.56 3.56





#16

Acetone

Concen: 3.655 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

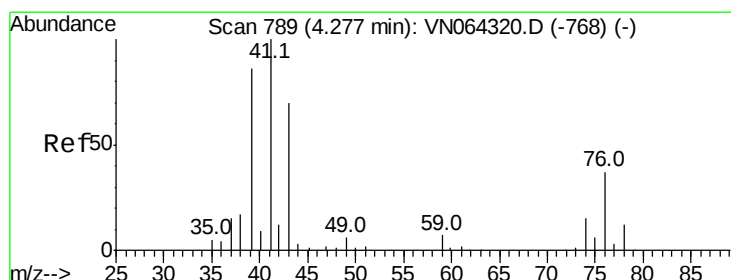
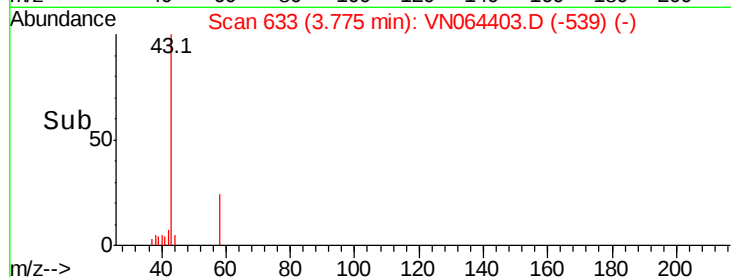
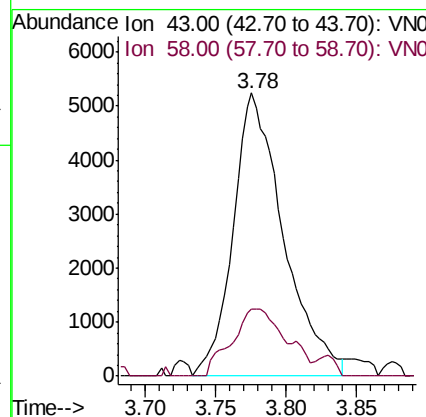
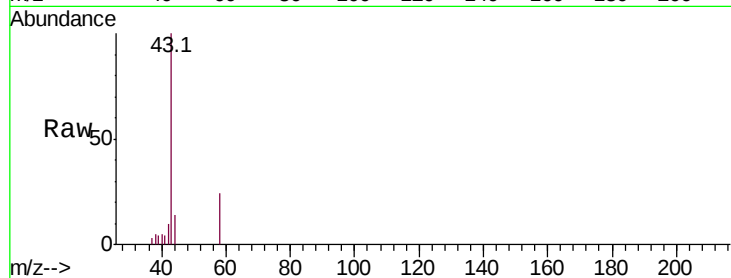
PB132725ZHE#07

Tot Ion: 43 Resp: 13109

Ion Ratio Lower Upper

43 100

58 23.6 22.1 33.1



#18

Methyl Acetate

Concen: 1.230 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064403.D

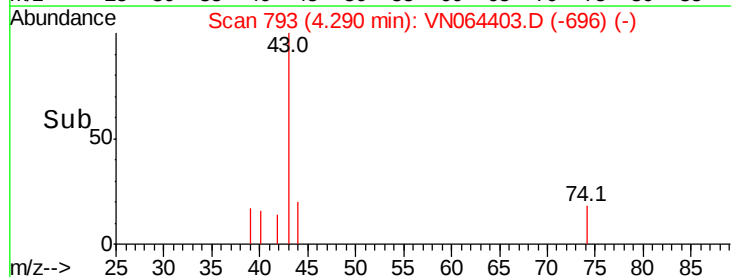
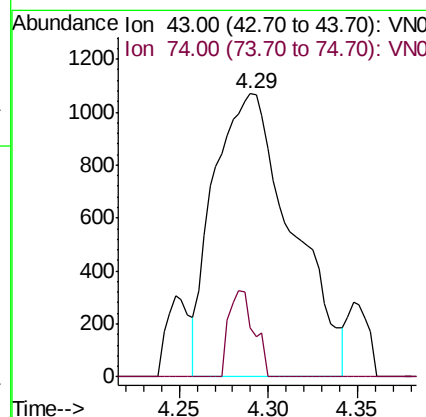
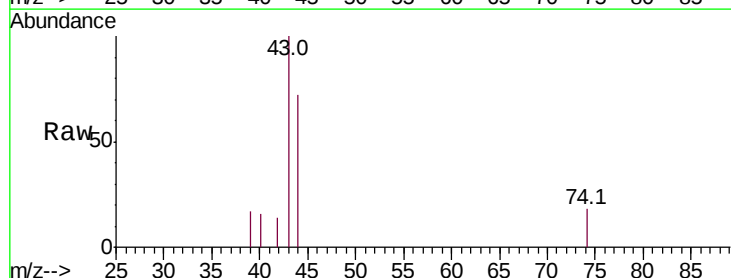
Acq: 30 Oct 2020 16:29

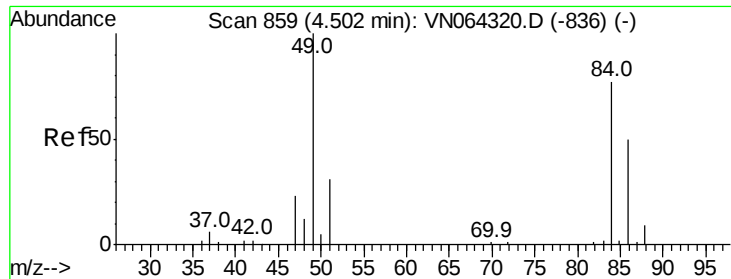
Tgt Ion: 43 Resp: 3261

Ion Ratio Lower Upper

43 100

74 9.8 16.7 25.1#





#20

Methylene Chloride

Concen: 1.534 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB132725ZHE#07

Tot Ion: 84 Resp: 3840

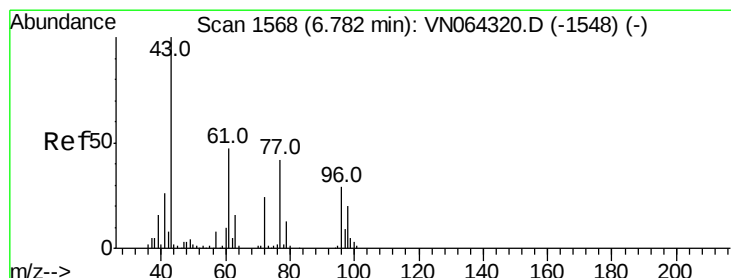
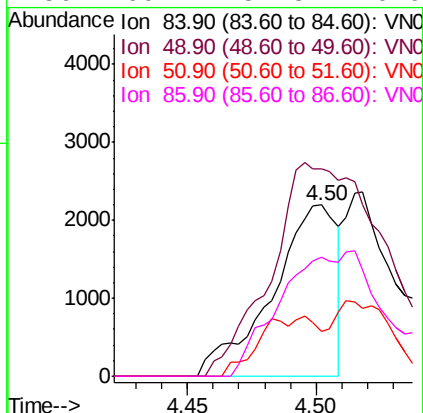
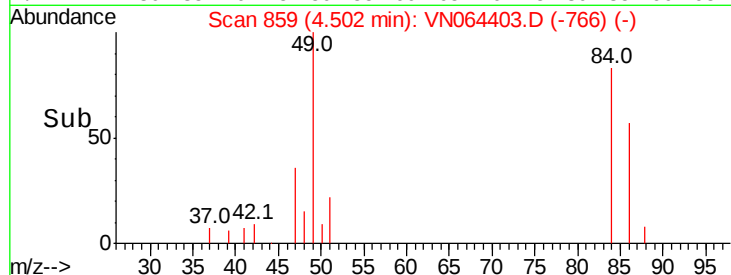
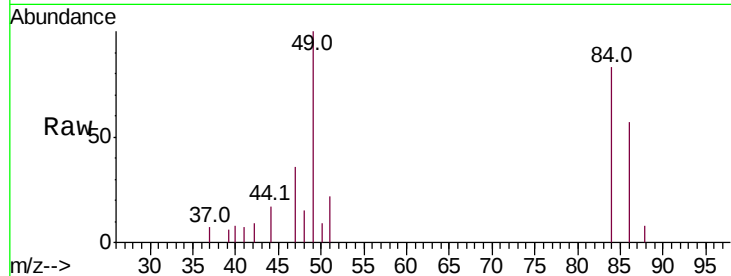
Ion Ratio Lower Upper

84 100

49 121.0 103.6 155.4

51 26.0 31.8 47.8#

86 69.4 51.3 76.9



#25

2-Butanone

Concen: 0.359 ug/l

RT: 6.77 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VN064403.D

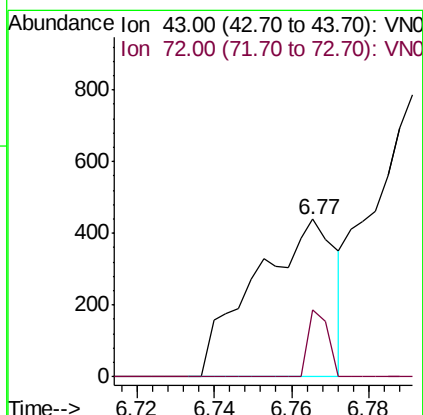
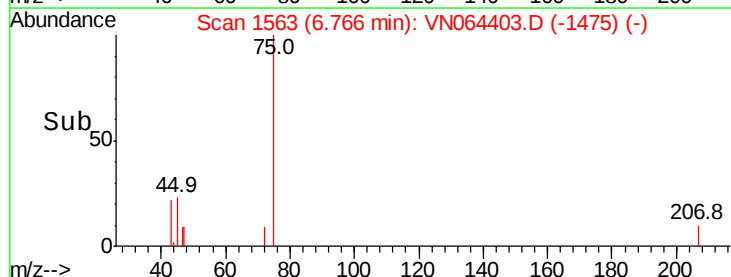
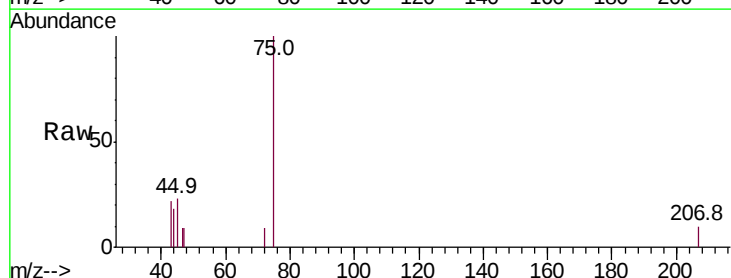
Acq: 30 Oct 2020 16:29

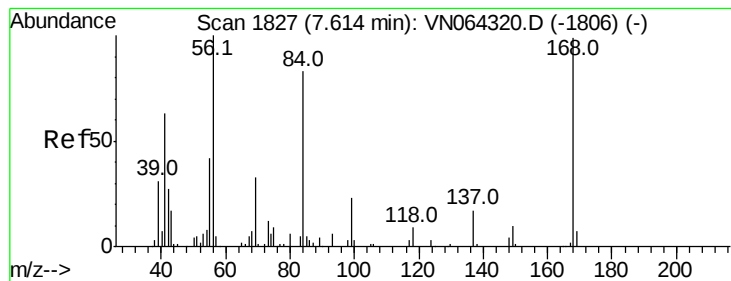
Tgt Ion: 43 Resp: 636

Ion Ratio Lower Upper

43 100

72 42.8 18.8 28.2#





#31

Cyclohexane

Concen: 1.448 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB132725ZHE#07

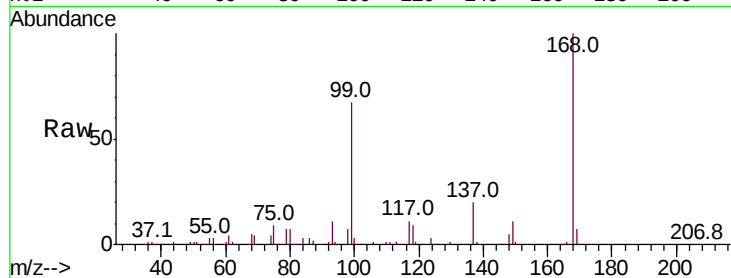
Tot Ion: 56 Resp: 5931

Ion Ratio Lower Upper

56 100

69 165.8 25.8 38.8#

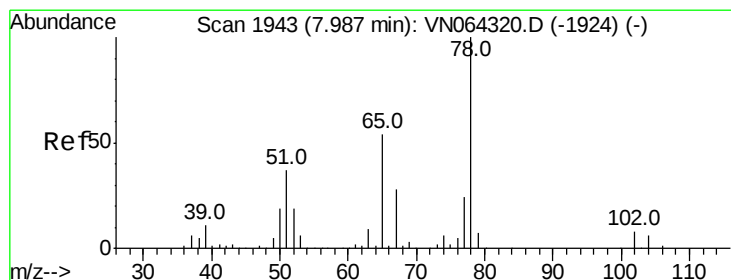
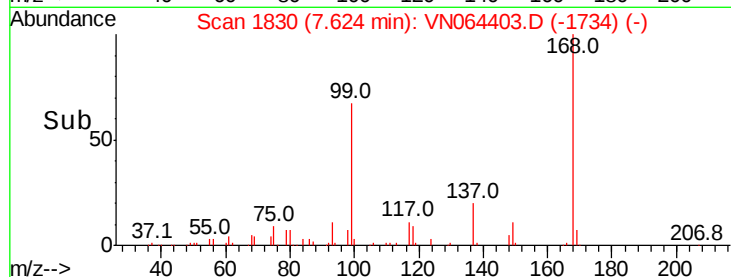
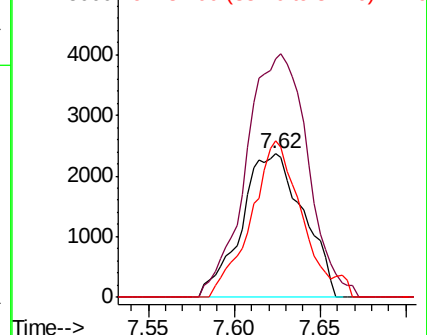
84 108.7 66.3 99.5#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 51.726 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064403.D

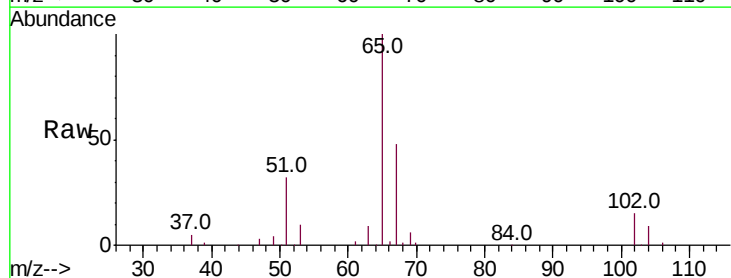
Acq: 30 Oct 2020 16:29

Tgt Ion: 65 Resp: 182580

Ion Ratio Lower Upper

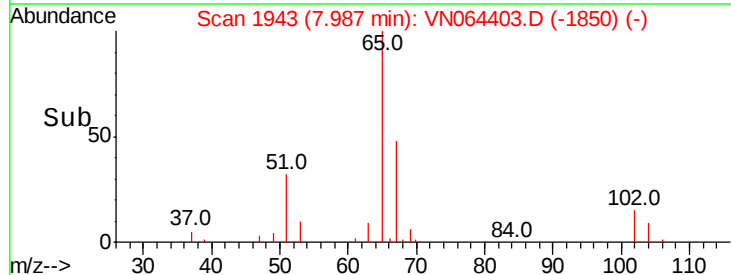
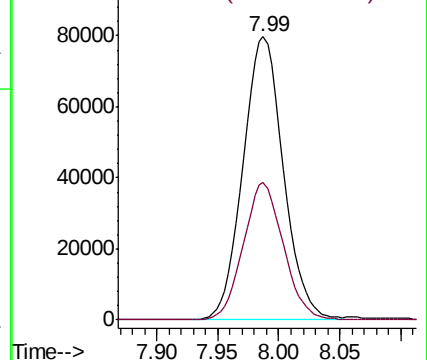
65 100

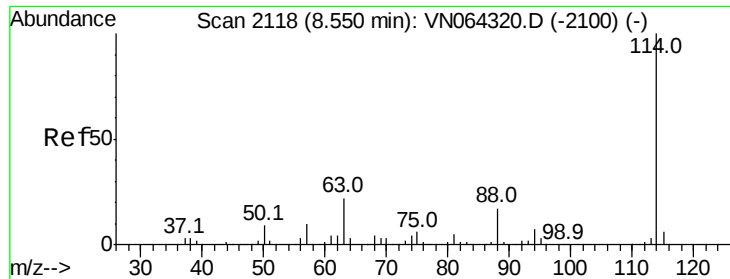
67 48.0 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

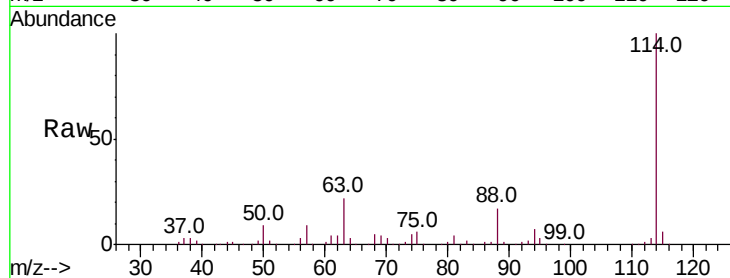




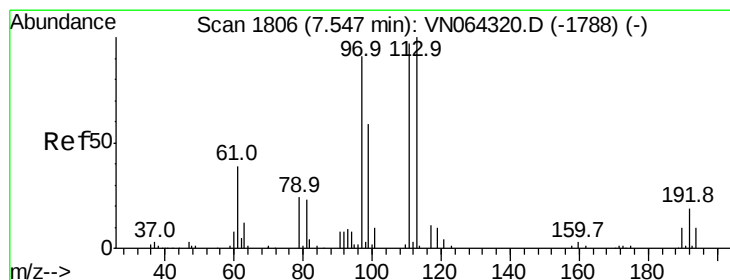
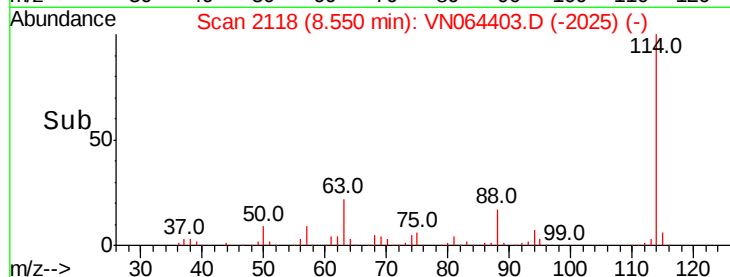
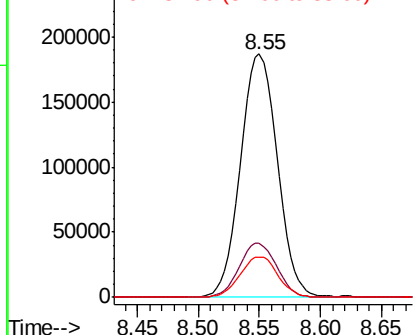
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064403.D
 Acq: 30 Oct 2020 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132725ZHE#07

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.6
88	16.5	0.0	33.4

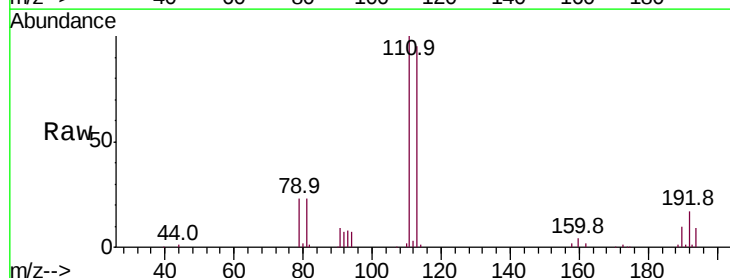


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

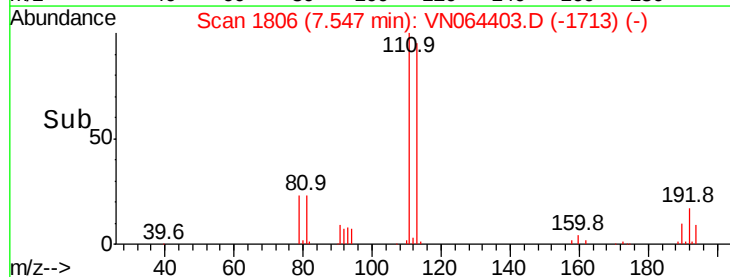
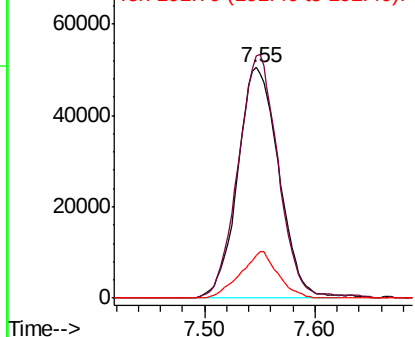


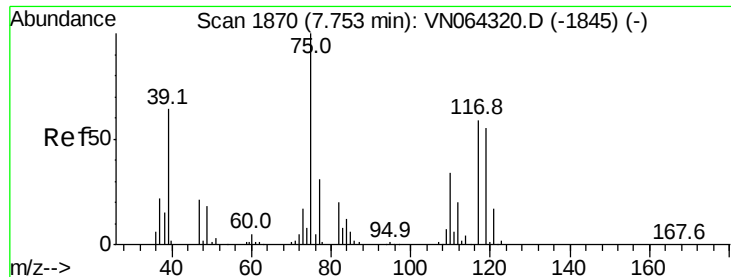
#35
 Dibromofluoromethane
 Concen: 49.943 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN064403.D
 Acq: 30 Oct 2020 16:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.5	122.3
192	18.2	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

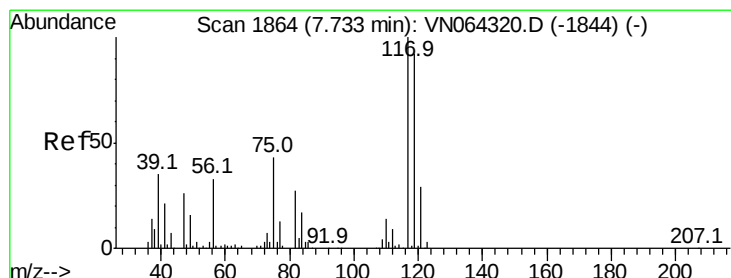
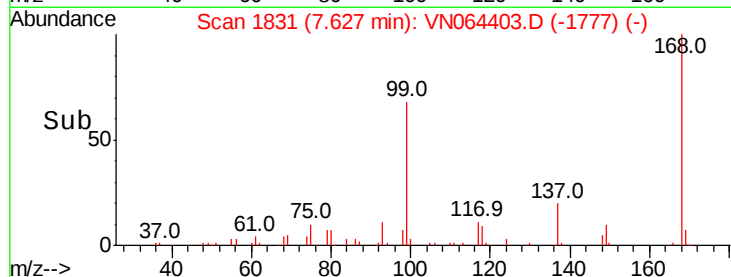
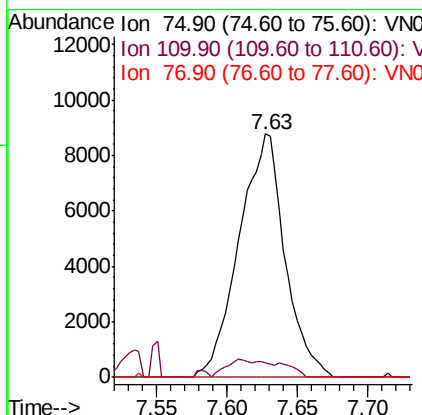
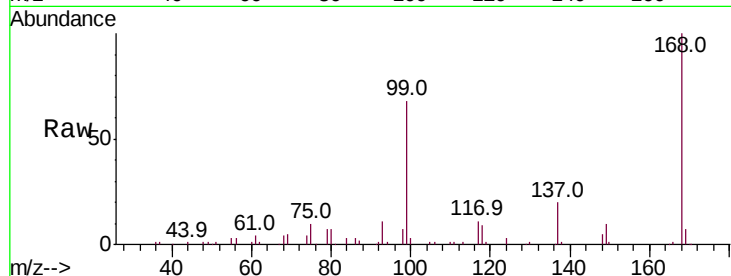




#36
 1,1-Dichloropropene
 Concen: 5.037 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064403.D
 Acq: 30 Oct 2020 16:29

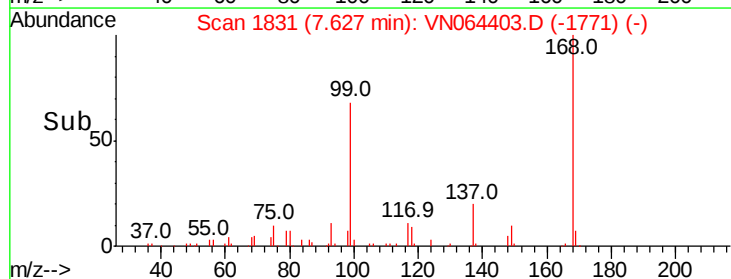
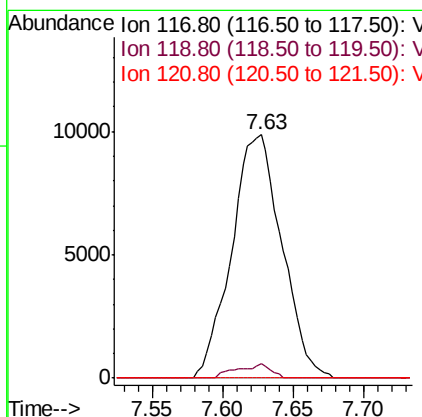
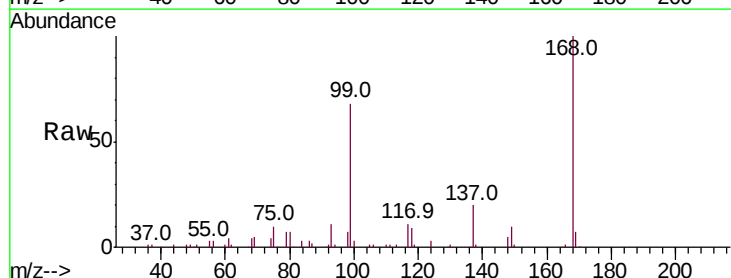
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132725ZHE#07

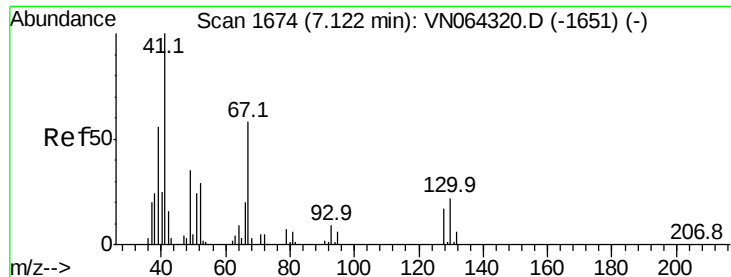
Tot Ion: 75 Resp: 19929
 Ion Ratio Lower Upper
 75 100
 110 6.5 16.8 50.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 5.355 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064403.D
 Acq: 30 Oct 2020 16:29

Tgt Ion: 117 Resp: 24567
 Ion Ratio Lower Upper
 117 100
 119 5.8 73.7 110.5#
 121 0.0 22.8 34.2#





#41

Methacrylonitrile

Concen: 0.234 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.05 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB132725ZHE#07

Tot Ion: 41 Resp: 465

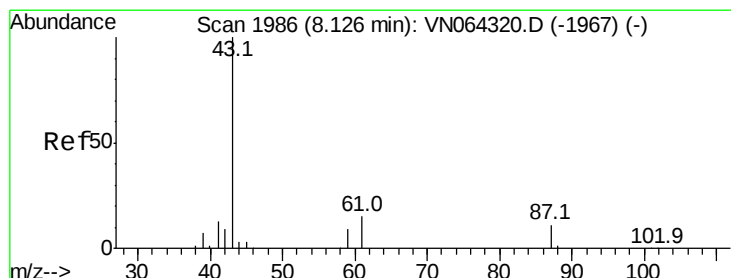
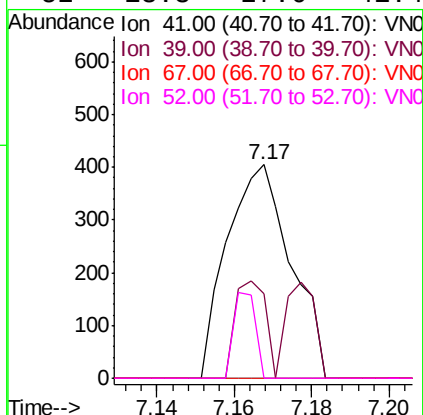
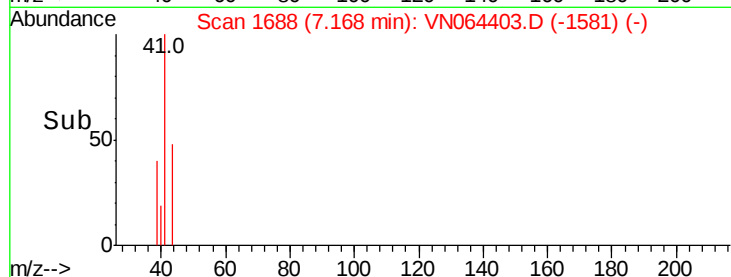
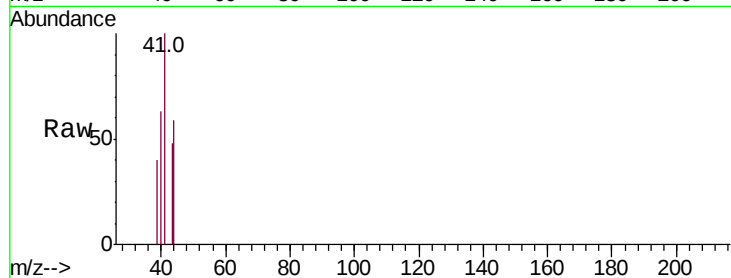
Ion Ratio Lower Upper

41 100

39 21.3 48.6 72.8#

67 0.0 61.4 92.2#

52 13.3 27.6 41.4#



#43

Isopropyl Acetate

Concen: 11.840 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

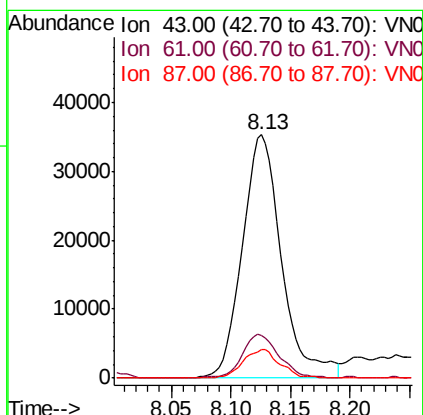
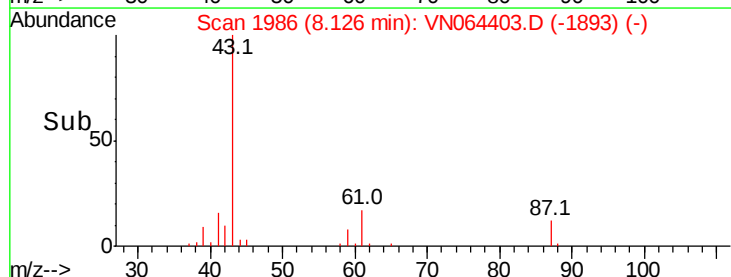
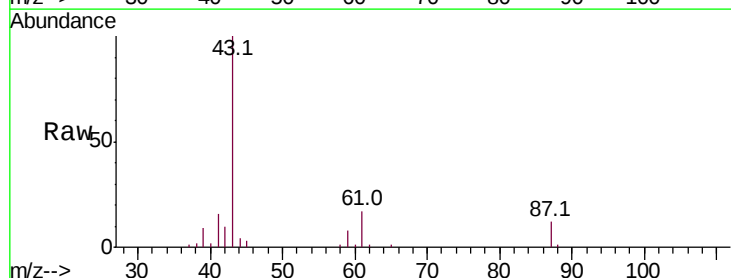
Tgt Ion: 43 Resp: 80895

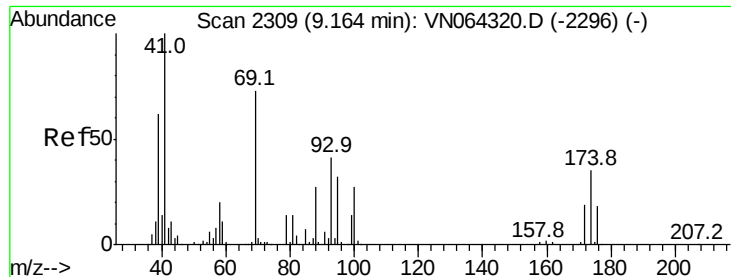
Ion Ratio Lower Upper

43 100

61 16.8 19.1 28.7#

87 10.9 9.3 13.9

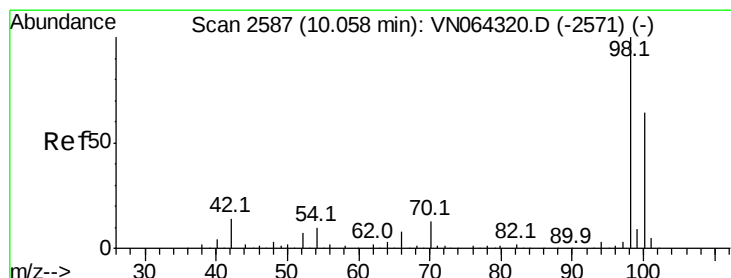
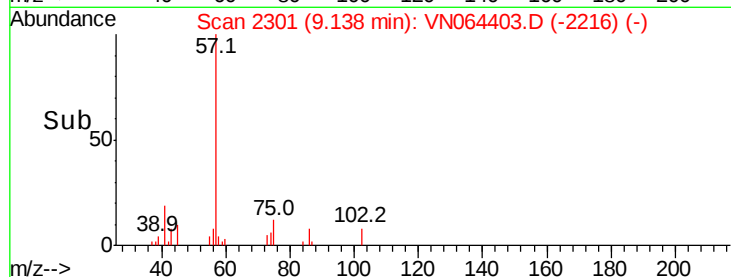
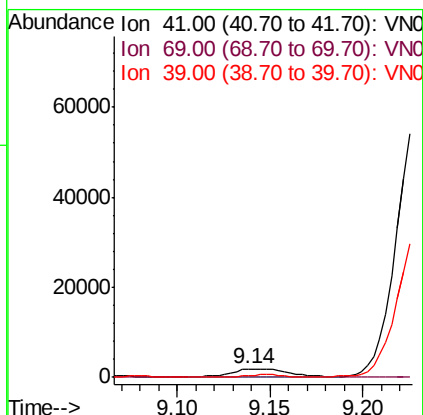
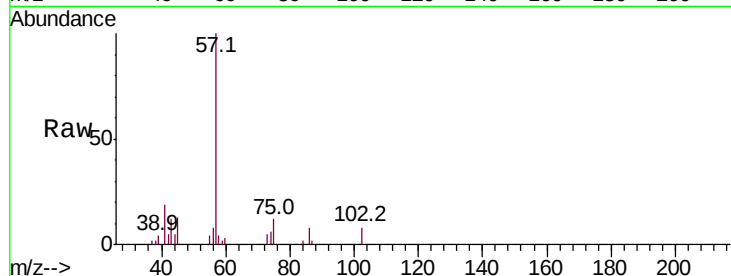




#48
Methvl methacrylate
Concen: 1.145 ug/l
RT: 9.14 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

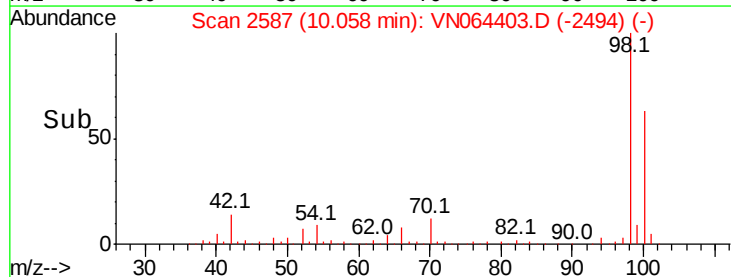
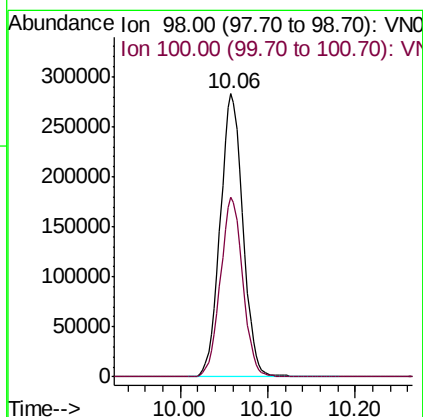
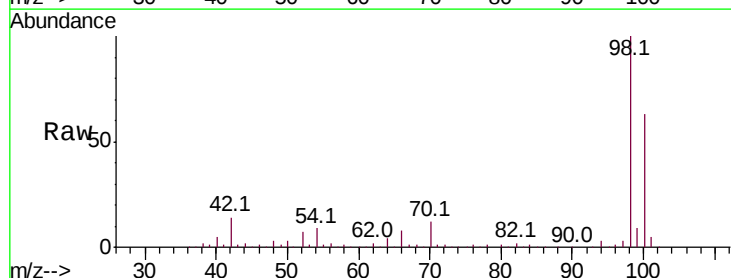
Instrument :
MSVOA_N
ClientSampleId :
PB132725ZHE#07

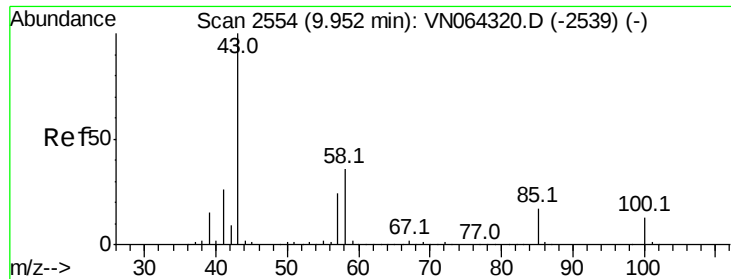
Tot Ion: 41 Resp: 4037
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 52.733 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

Tgt Ion: 98 Resp: 509986
Ion Ratio Lower Upper
98 100
100 62.5 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.654 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

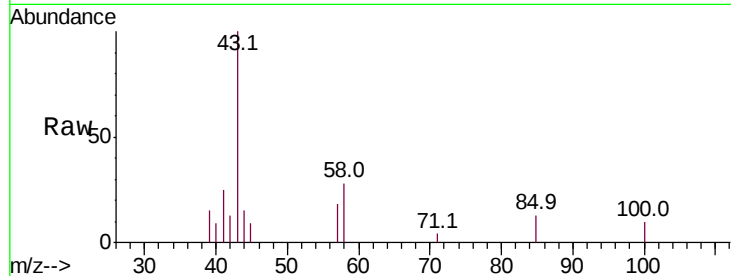
PB132725ZHE#07

Tot Ion: 43 Resp: 6568

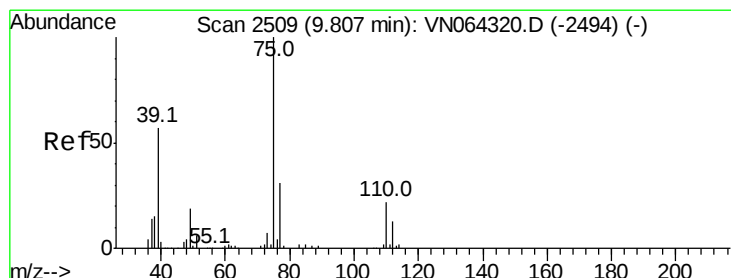
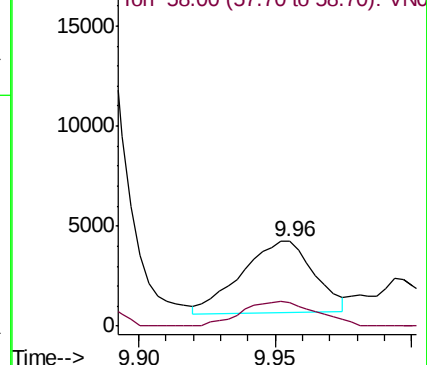
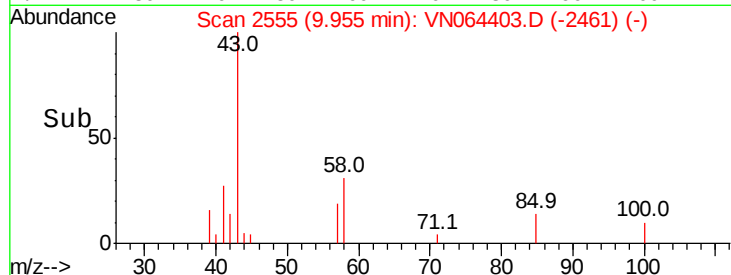
Ion Ratio Lower Upper

43 100

58 36.1 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064403.D (-2461) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.259 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

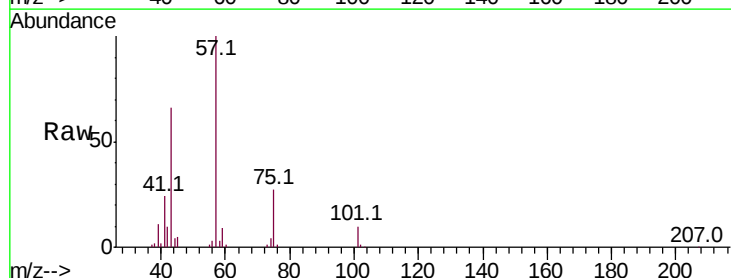
Tgt Ion: 75 Resp: 31153

Ion Ratio Lower Upper

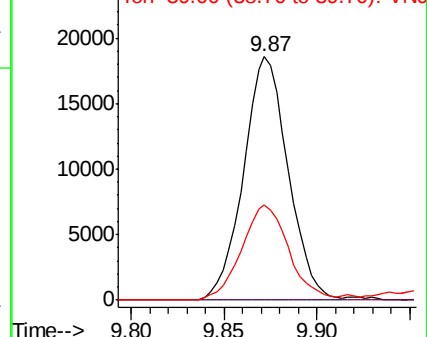
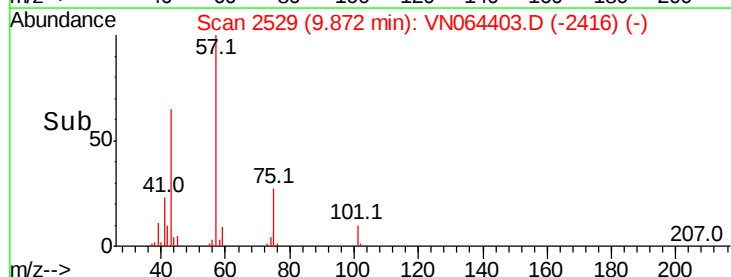
75 100

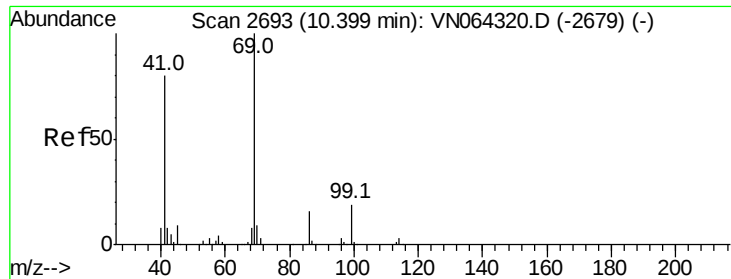
77 0.0 25.0 37.4#

39 39.0 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VN064403.D (-2416) (-)





#56

Ethyl methacrylate

Concen: 0.333 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB132725ZHE#07

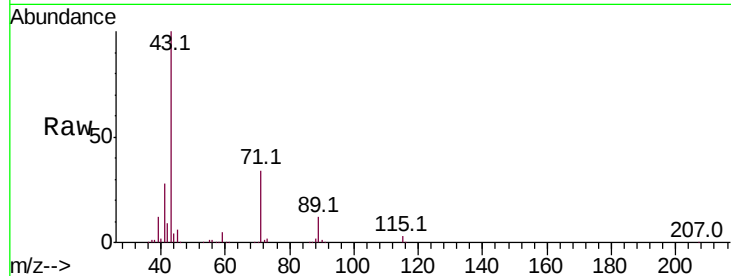
Tot Ion: 69 Resp: 1382

Ion Ratio Lower Upper

69 100

41 6025.5 61.4 92.2#

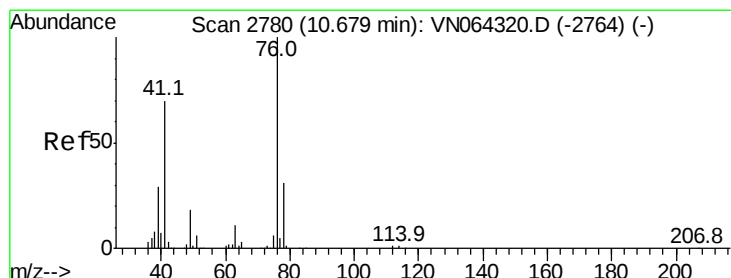
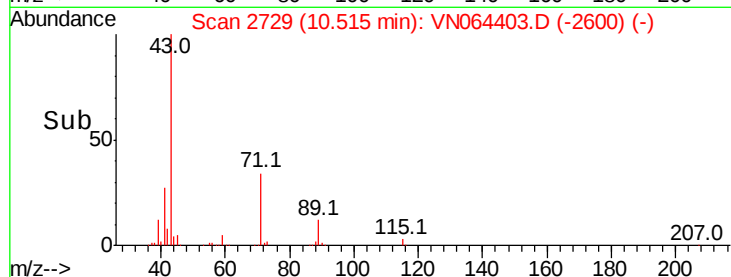
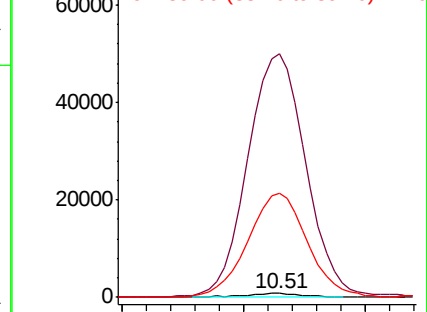
39 2629.9 36.5 54.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.126 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064403.D

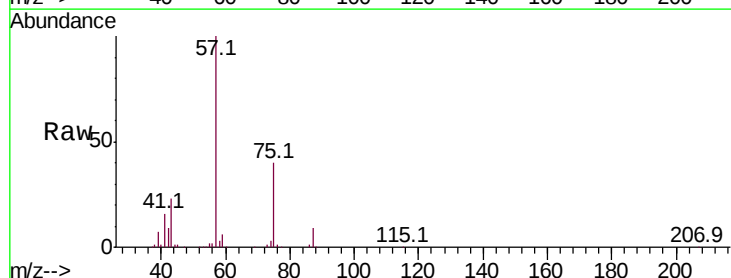
Acq: 30 Oct 2020 16:29

Tgt Ion: 76 Resp: 5271

Ion Ratio Lower Upper

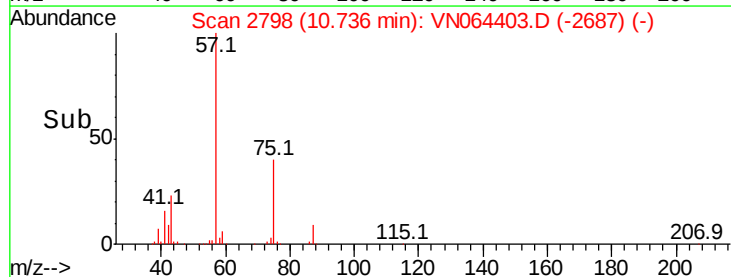
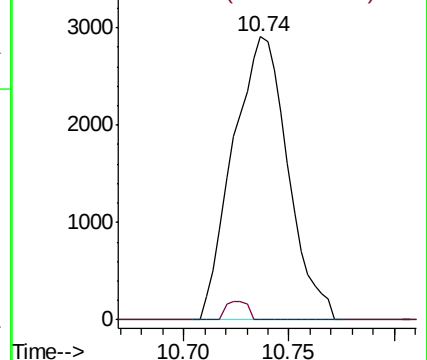
76 100

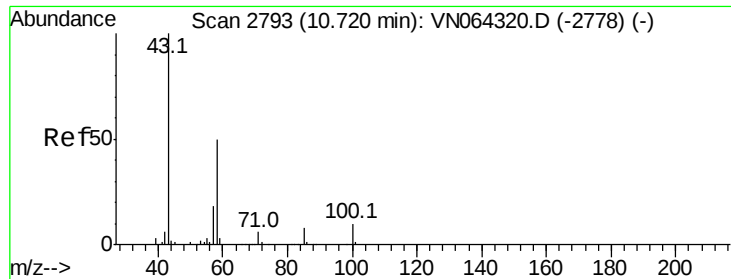
78 2.6 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 31.029 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

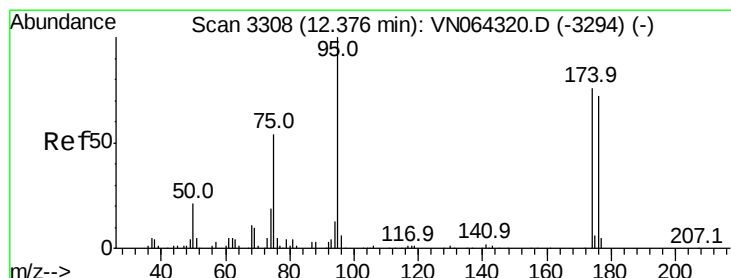
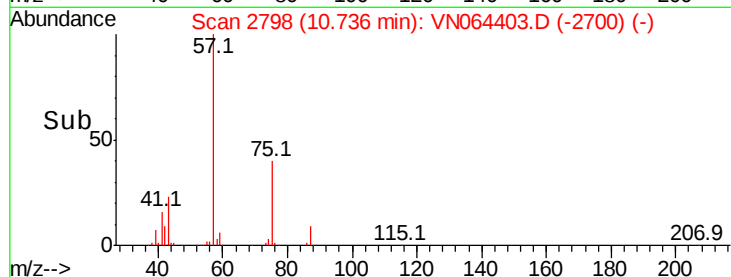
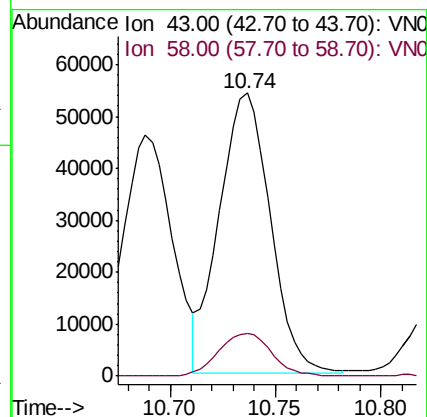
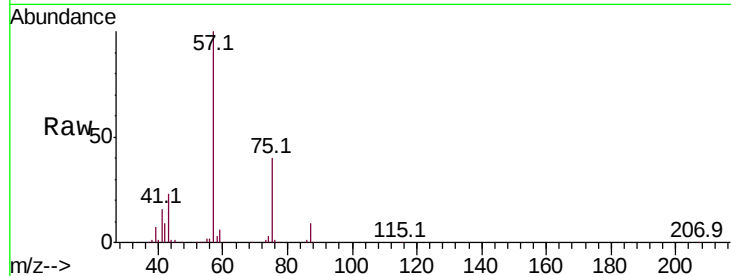
PB132725ZHE#07

Tot Ion: 43 Resp: 90760

Ion Ratio Lower Upper

43 100

58 15.9 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 55.881 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

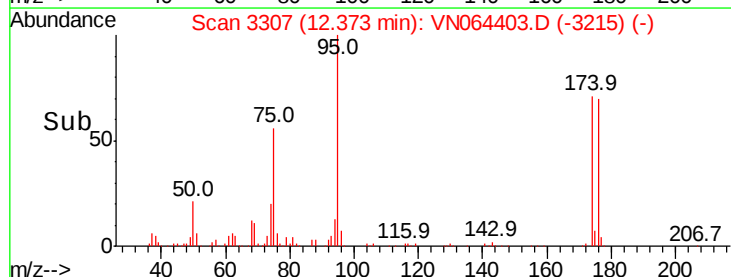
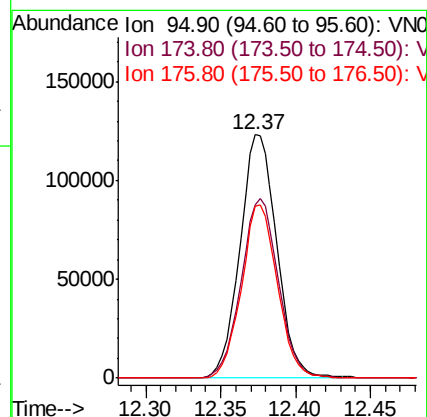
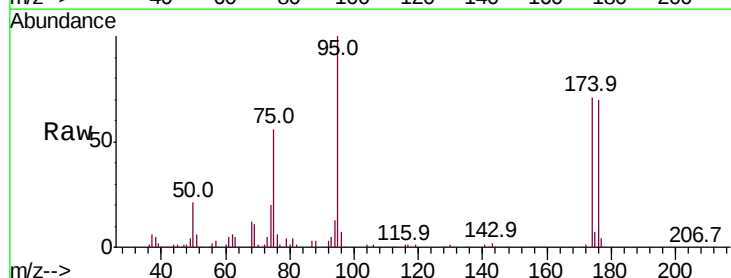
Tgt Ion: 95 Resp: 210712

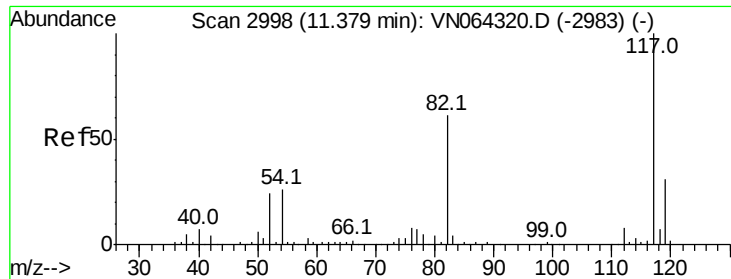
Ion Ratio Lower Upper

95 100

174 74.7 0.0 147.4

176 70.0 0.0 143.6

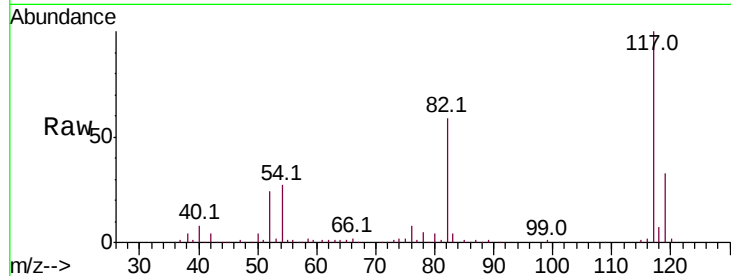




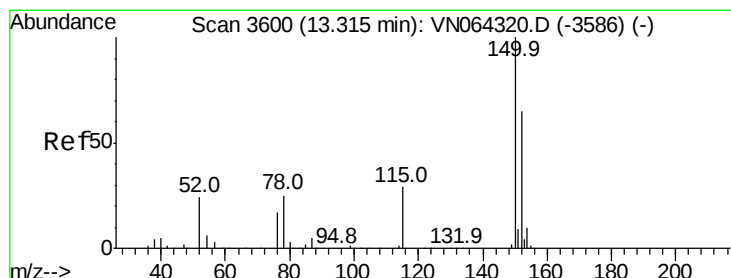
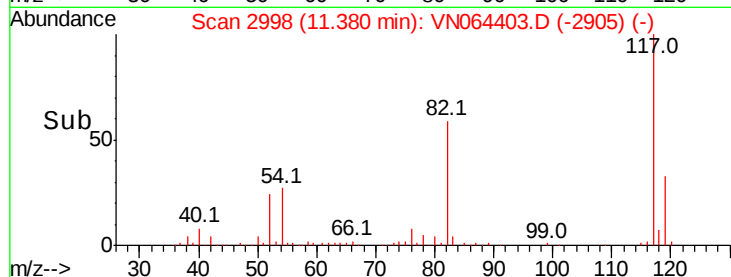
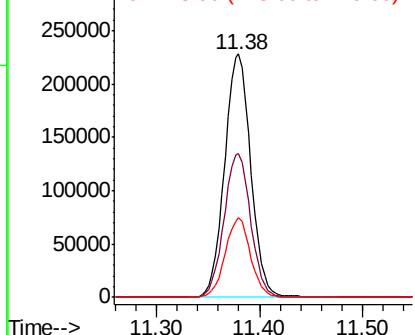
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB132725ZHE#07

Tot Ion:117 Resp: 403218
Ion Ratio Lower Upper
117 100
82 58.9 48.8 73.2
119 32.7 25.1 37.7

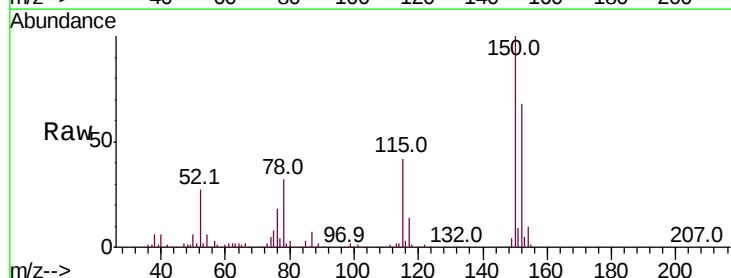


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

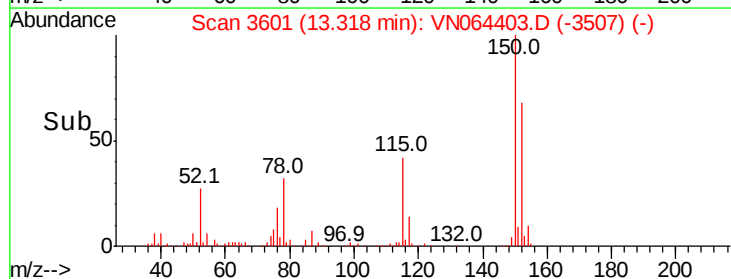
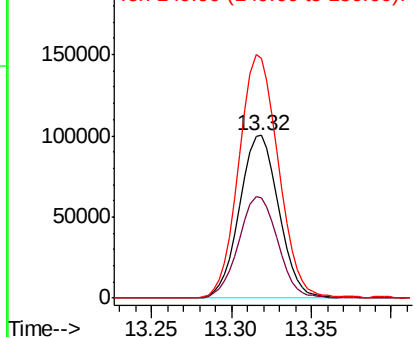


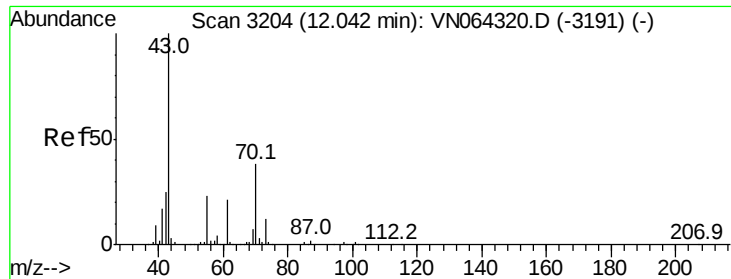
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

Tgt Ion:152 Resp: 167832
Ion Ratio Lower Upper
152 100
115 62.3 31.5 94.5
150 151.0 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

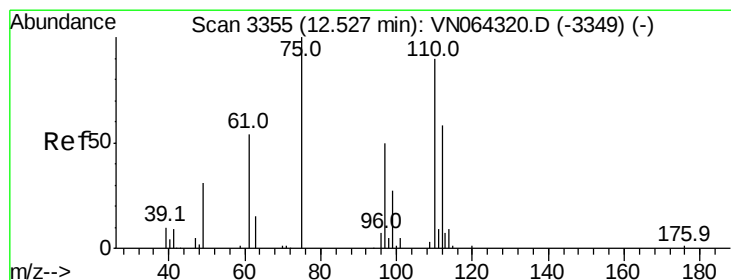
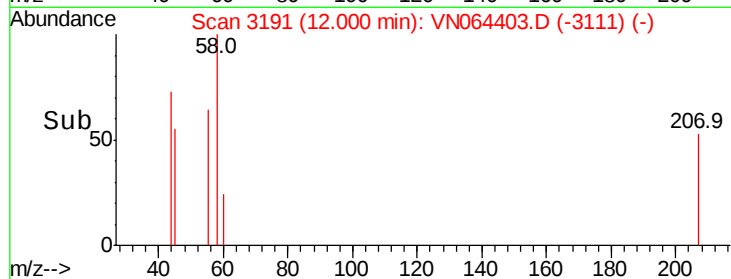
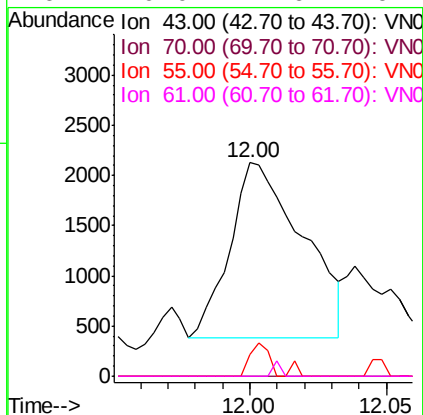
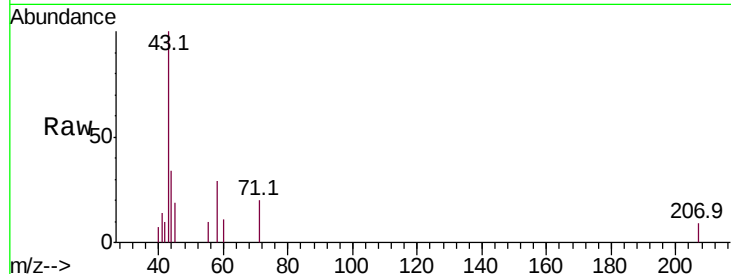




#74
N-amvl acetate
Concen: 0.584 ug/l
RT: 12.00 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

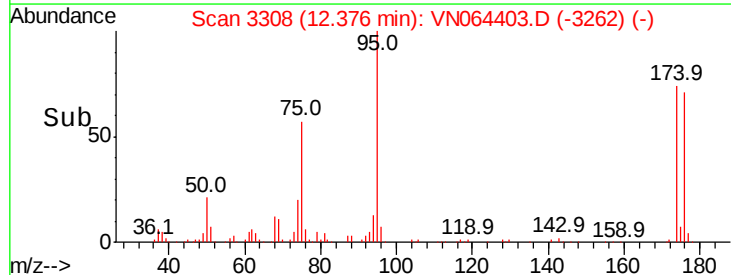
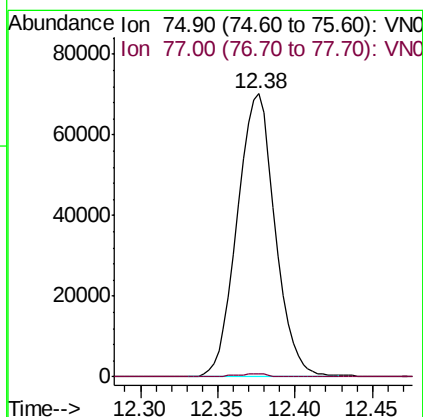
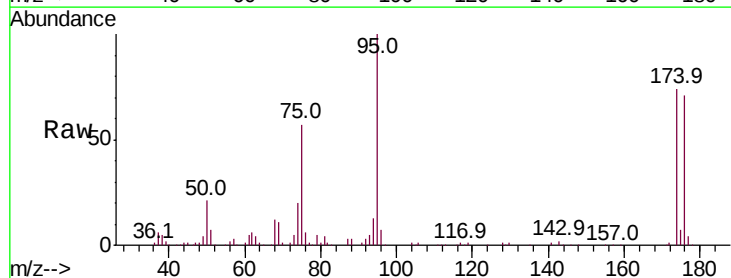
Instrument :
MSVOA_N
ClientSampleId :
PB132725ZHE#07

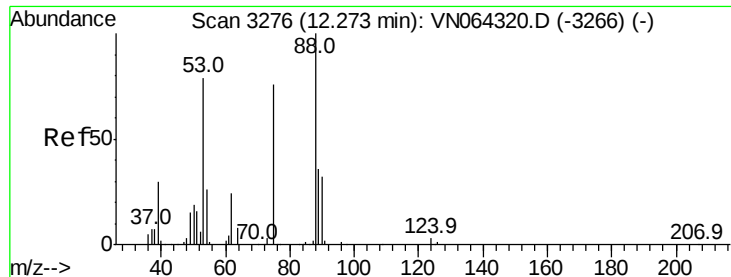
Tot Ion: 43 Resp: 3230
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 4.8 18.2 27.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 29.806 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064403.D
Acq: 30 Oct 2020 16:29

Tgt Ion: 75 Resp: 119793
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 85.856 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB132725ZHE#07

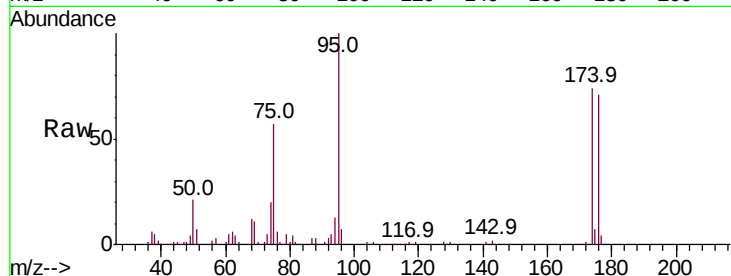
Tot Ion: 75 Resp: 119793

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

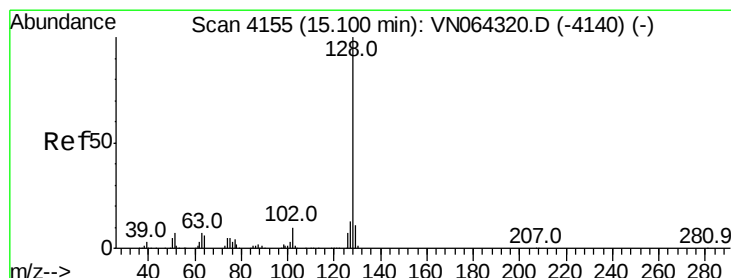
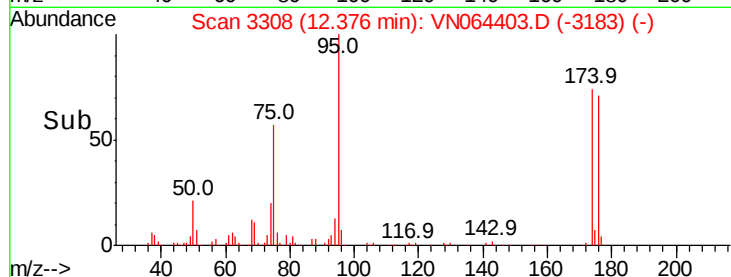
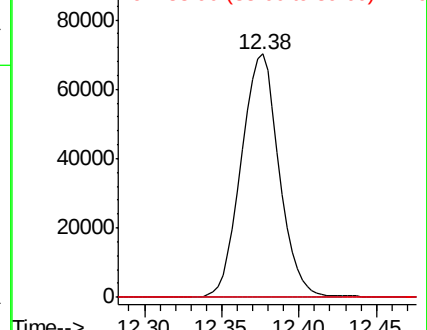
89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VN064403.D (-3183) (-)

Ion 53.00 (52.70 to 53.70): VN064403.D (-3183) (-)

Ion 88.90 (88.60 to 89.60): VN064403.D (-3183) (-)



#95

Naphthalene

Concen: 2.427 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064403.D

Acq: 30 Oct 2020 16:29

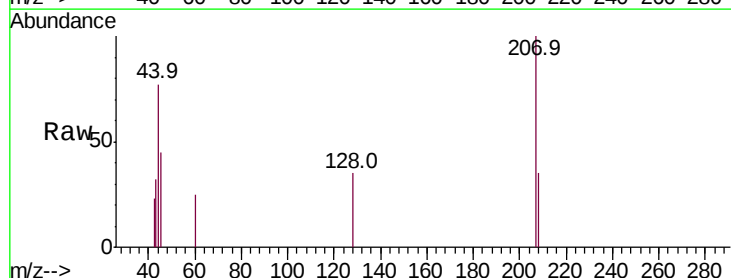
Tgt Ion: 128 Resp: 342

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN064403.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN064403.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN064403.D (-4061) (-)

