

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072820\
 Data File : VN062636.D
 Acq On : 28 Jul 2020 17:07
 Operator : JC/MD
 Sample : PB130507TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

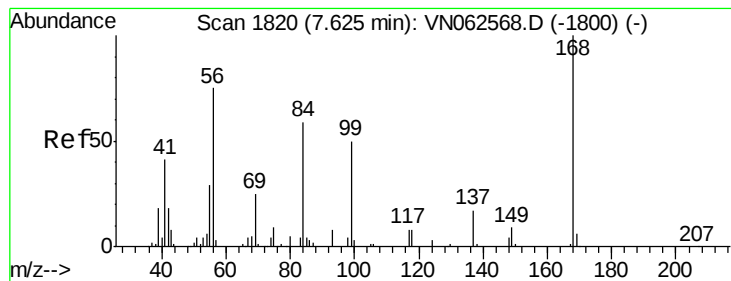
Quant Time: Jul 29 04:28:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	137220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	243266	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	287375	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	101537	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	116575	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
35) Dibromofluoromethane	7.55	113	79188	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.06	98	340628	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
62) 4-Bromofluorobenzene	12.38	95	137692	59.07	ug/l	0.00
Spiked Amount			Recovery	=	118.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	9914	12.359	ug/l	91
18) Methyl Acetate	4.29	43	3170	1.561	ug/l #	81
20) Methylene Chloride	4.50	84	6715	3.490	ug/l	86
25) 2-Butanone	6.81	43	1111	0.909	ug/l #	52
29) Tetrahydrofuran	7.18	42	247	0.299	ug/l #	38
31) Cyclohexane	7.62	56	3577	1.139	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	11680	4.505	ug/l #	51
37) Ethyl Acetate	6.81	43	1111	0.397	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14456	5.800	ug/l #	16
43) Isopropyl Acetate	8.13	43	52443	11.639	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1036	0.470	ug/l #	44
48) Methyl methacrylate	9.15	41	3367	1.572	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4106	1.523	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	21381	6.486	ug/l #	65
56) Ethyl methacrylate	10.51	69	1015	2.077	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3331	1.028	ug/l #	42
59) 2-Hexanone	10.74	43	62055	32.369	ug/l #	52
71) Bromoform	12.38	173	885	0.520	ug/l #	1
74) N-amyl acetate	12.01	43	3375	0.941	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	73416	28.407	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5299	0.796	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	73416	79.077	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062636.D

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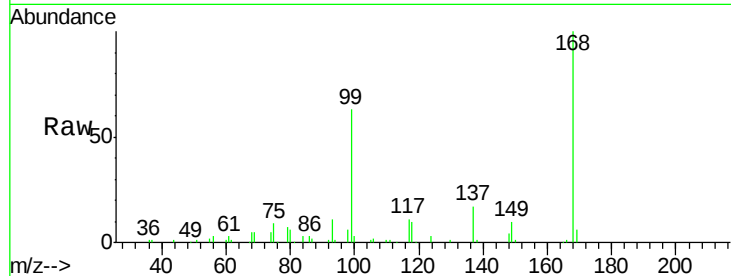
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 137220

Ion Ratio Lower Upper

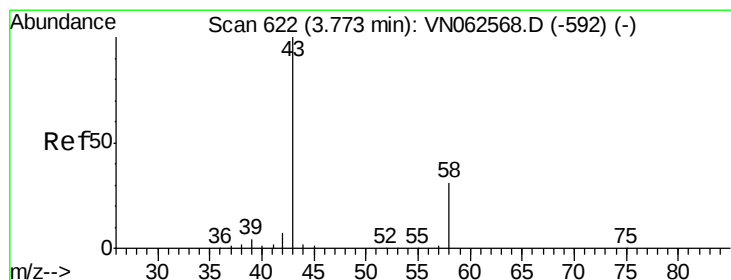
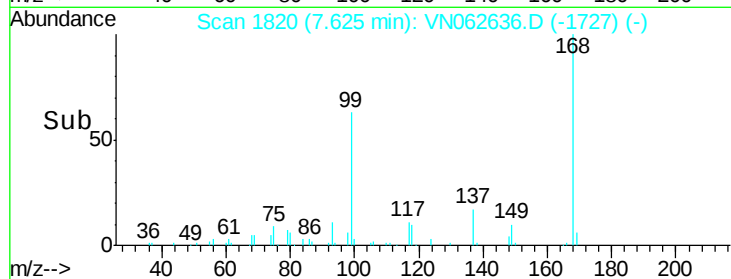
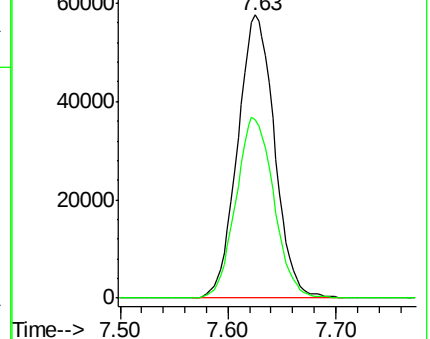
168 100

99 62.8 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 12.359 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062636.D

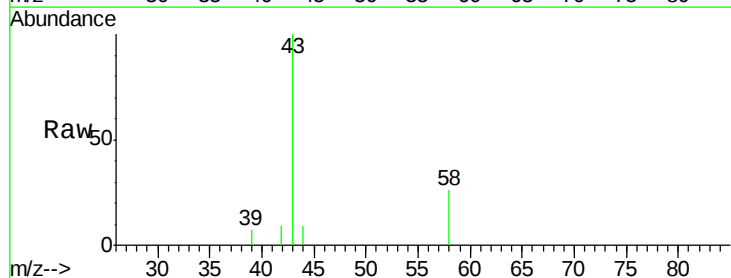
Acq: 28 Jul 2020 17:07

Tgt Ion: 43 Resp: 9914

Ion Ratio Lower Upper

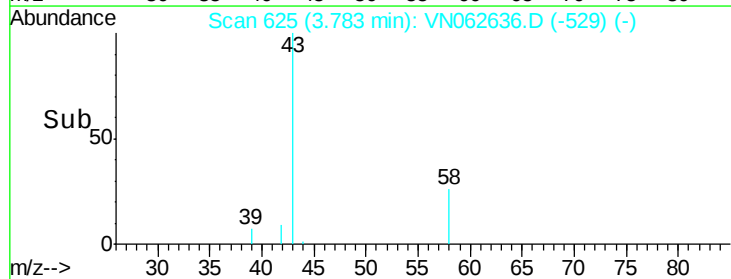
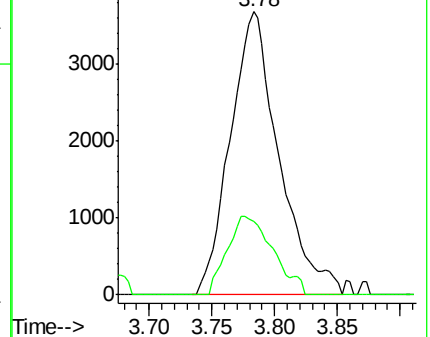
43 100

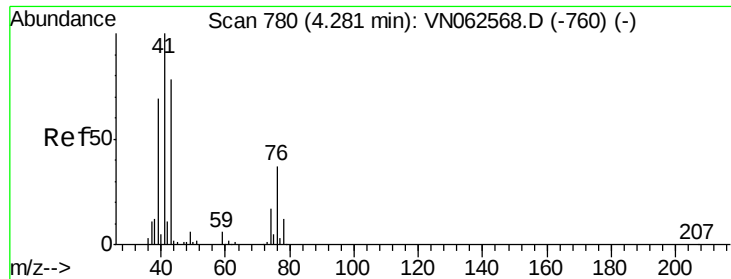
58 26.1 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

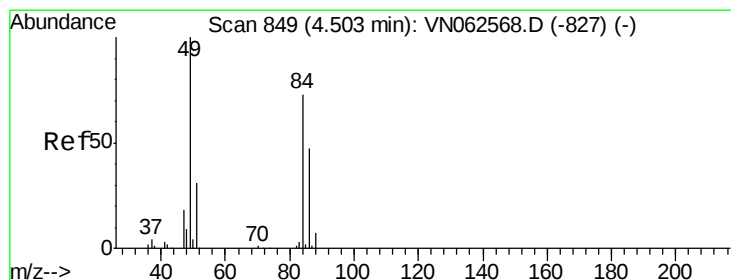
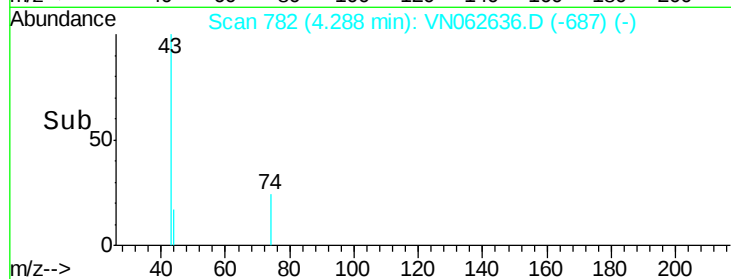
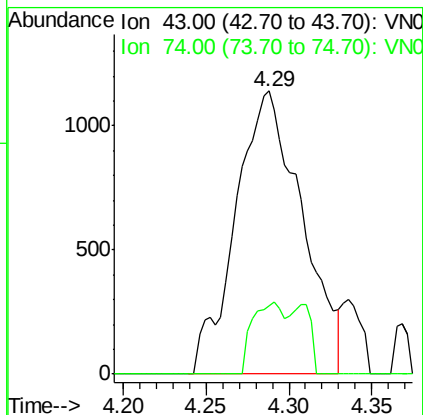
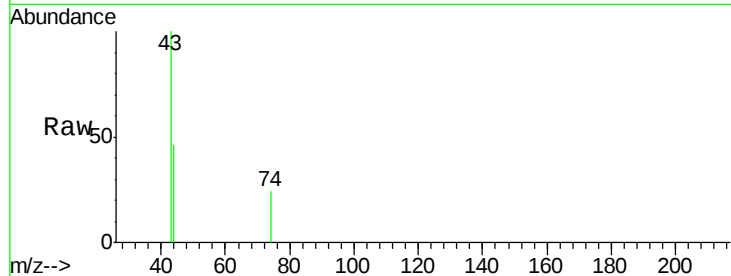




#18
Methyl Acetate
Concen: 1.561 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

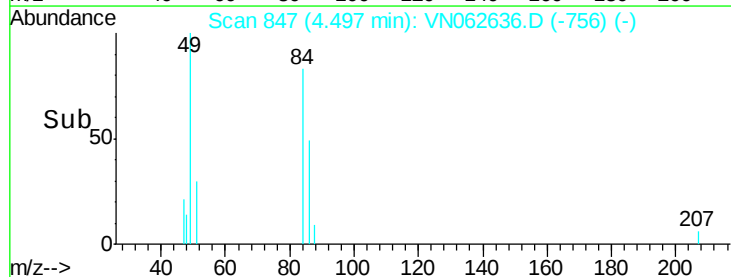
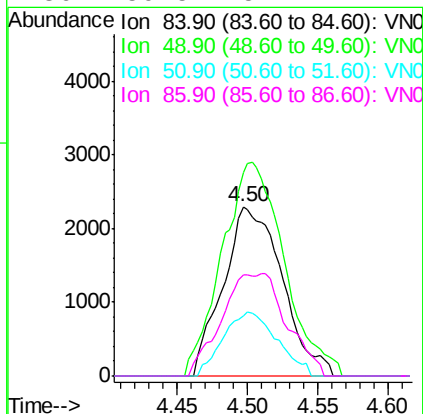
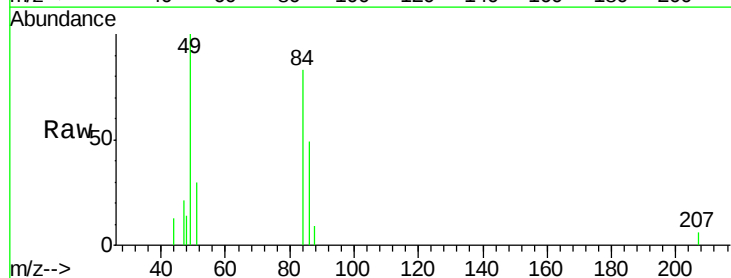
Instrument :
MSVOA_N
ClientSampled :

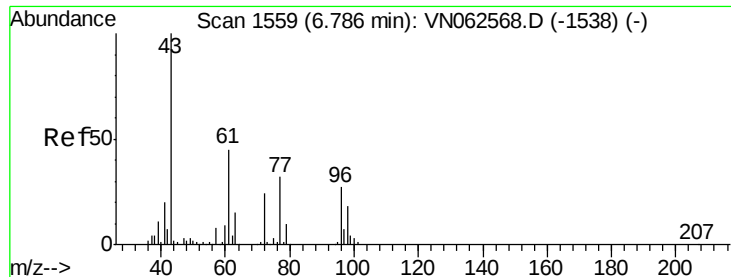
Tot Ion: 43 Resp: 3170
Ion Ratio Lower Upper
43 100
74 12.0 16.6 24.8#



#20
Methylene Chloride
Concen: 3.490 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.01 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion: 84 Resp: 6715
Ion Ratio Lower Upper
84 100
49 113.1 109.4 164.0
51 35.6 33.6 50.4
86 59.5 51.4 77.2

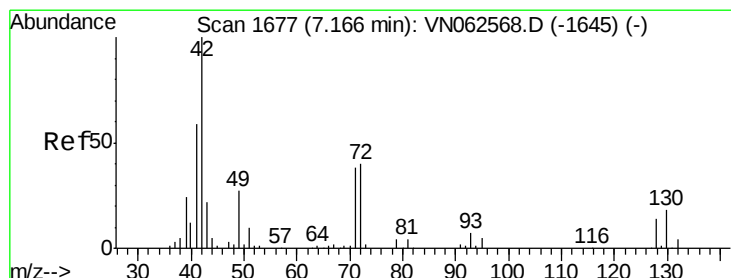
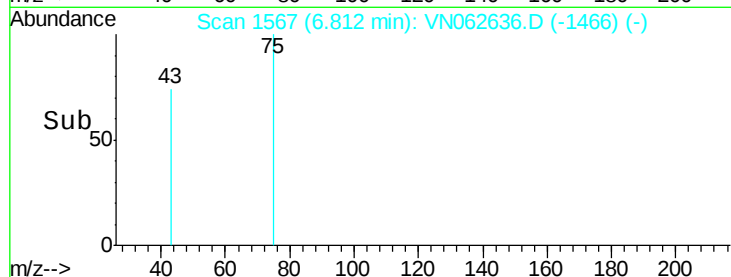
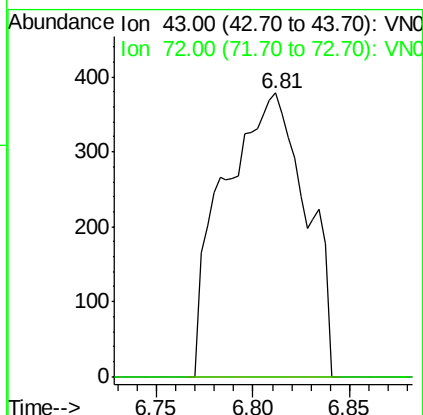
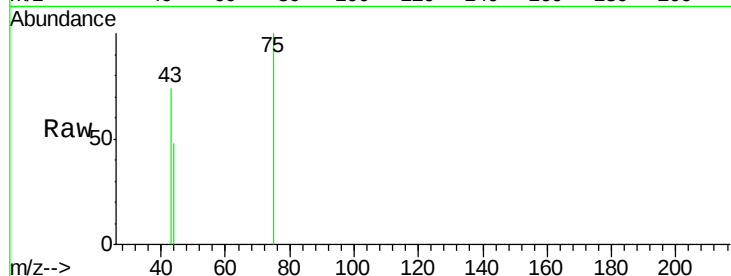




#25
2-Butanone
Concen: 0.909 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.03 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

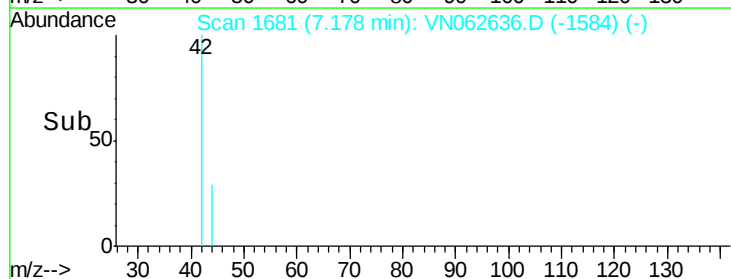
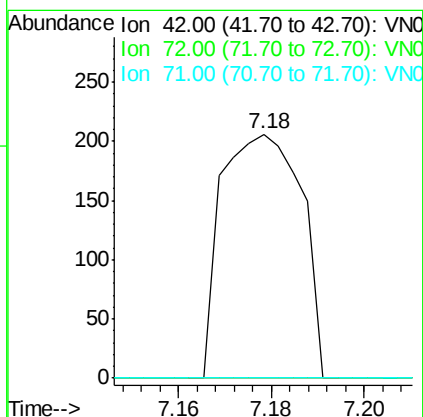
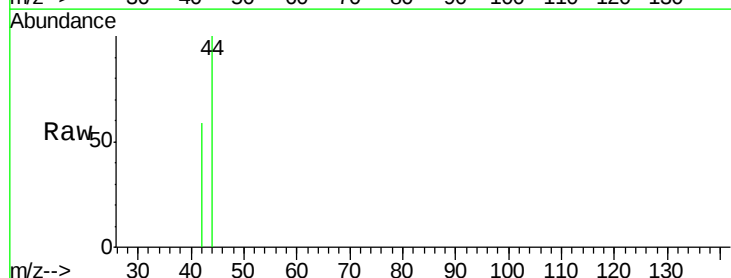
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MSVOA_N
ClientSampled :

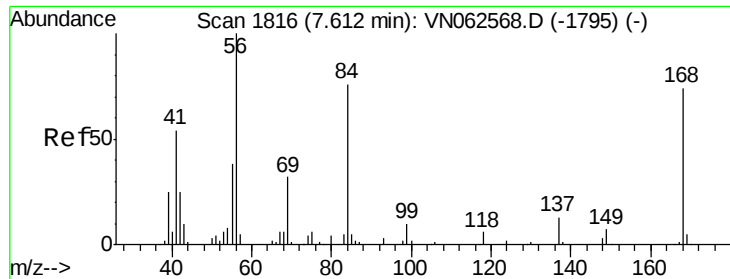
Tot Ion: 43 Resp: 1111
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#



#29
Tetrahydrofuran
Concen: 0.299 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion: 42 Resp: 247
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#

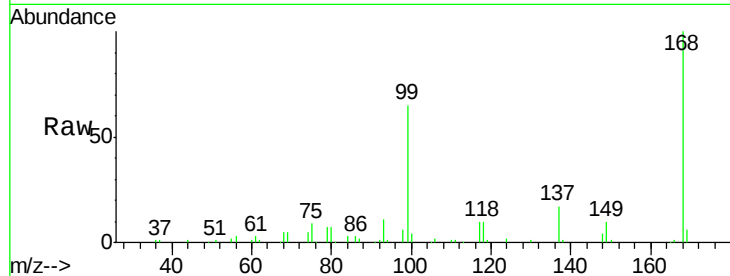




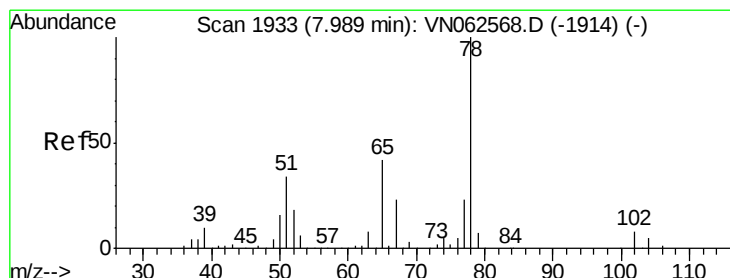
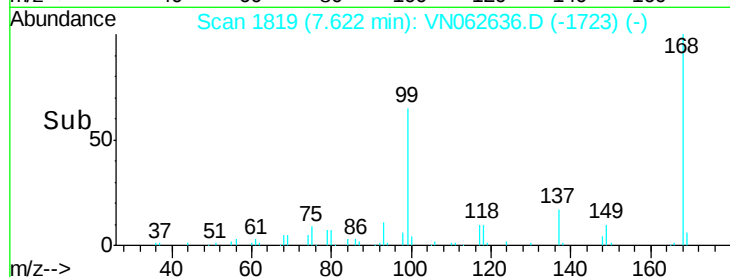
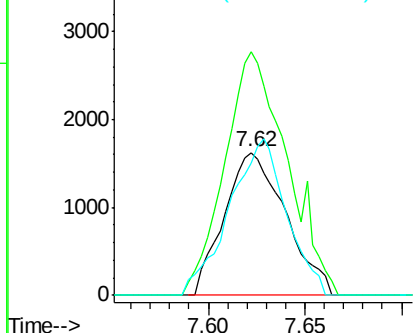
#31
Cyclohexane
Concen: 1.139 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3577
Ion Ratio Lower Upper
56 100
69 170.1 25.3 37.9#
84 92.8 61.0 91.4#

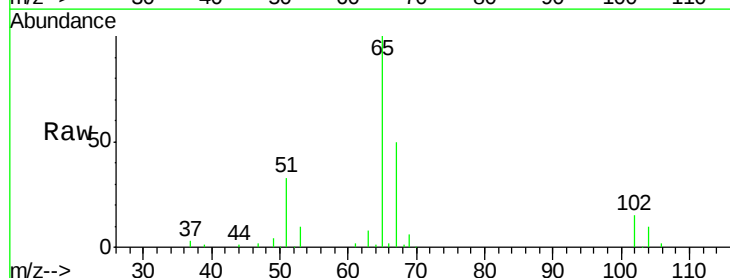


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

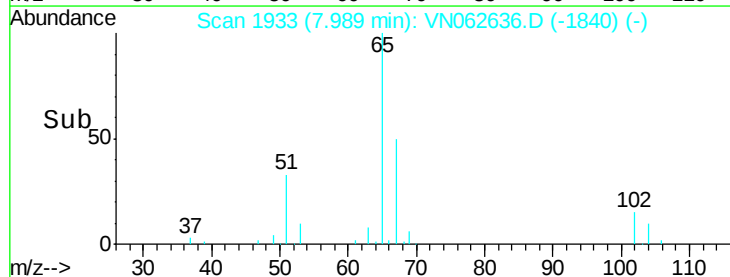
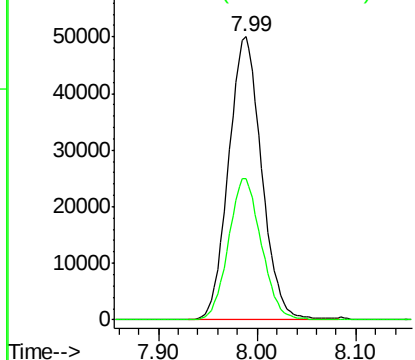


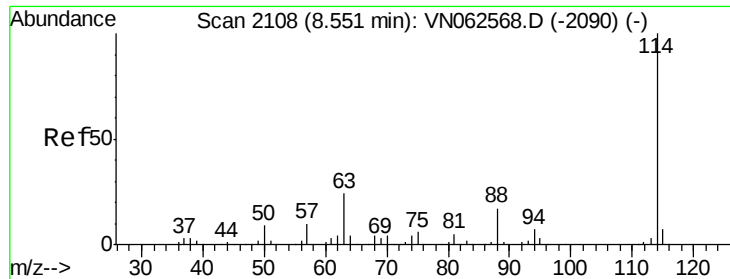
#33
1,2-Dichloroethane-d4
Concen: 54.688 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion: 65 Resp: 116575
Ion Ratio Lower Upper
65 100
67 49.7 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

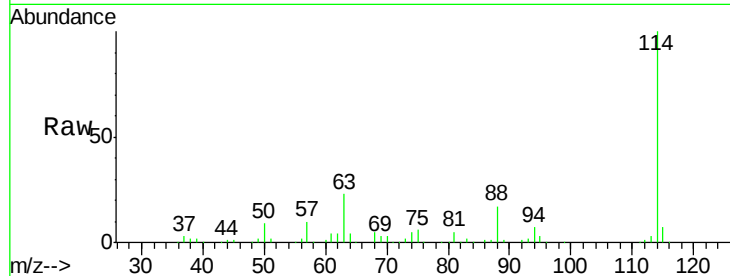




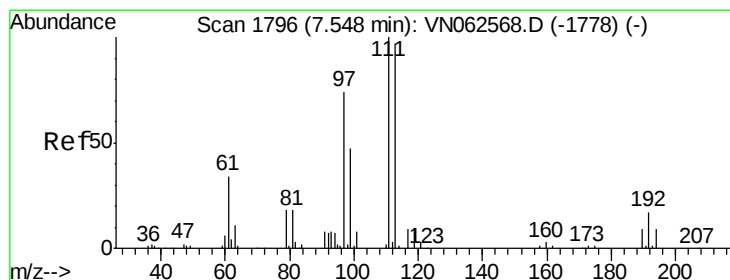
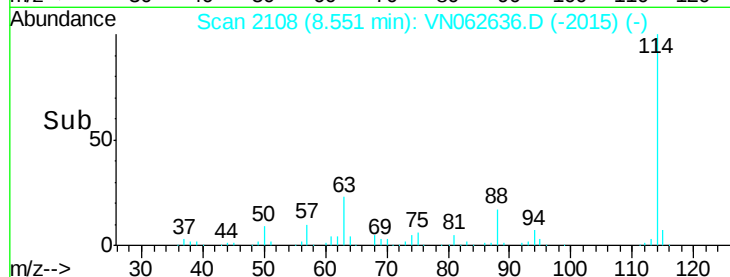
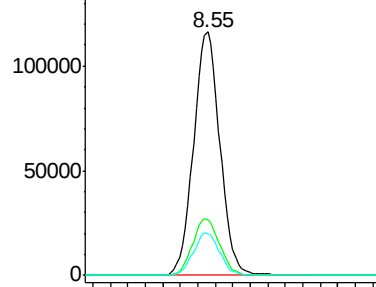
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 243266
Ion Ratio Lower Upper
114 100
63 22.9 0.0 48.4
88 17.2 0.0 33.8

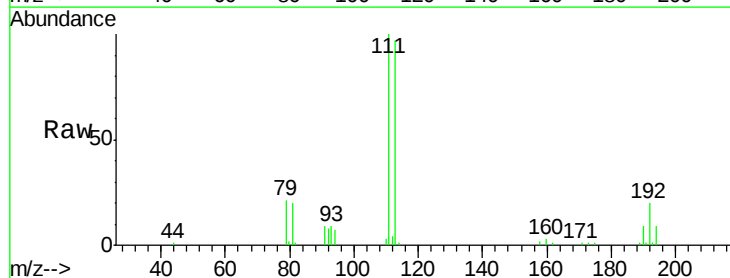


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

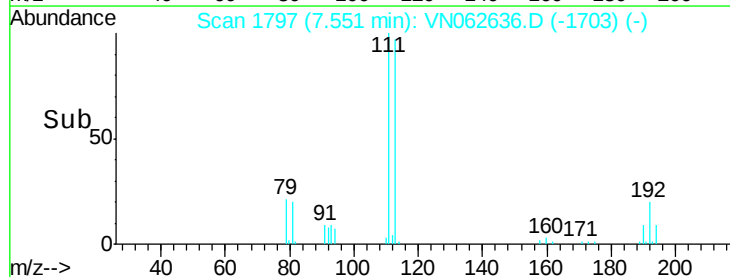
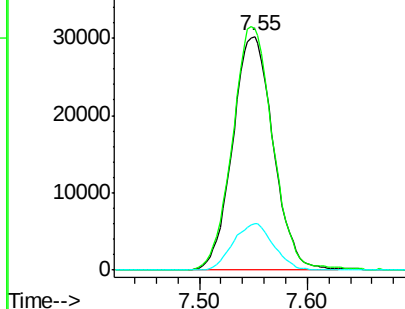


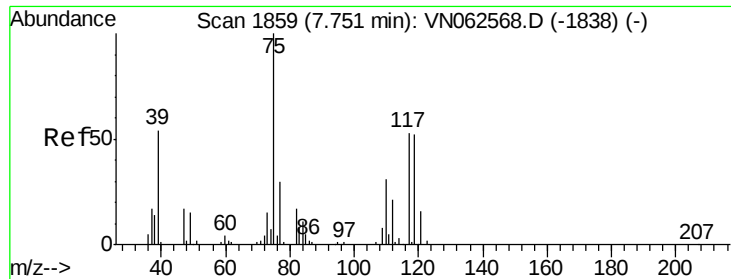
#35
Dibromofluoromethane
Concen: 49.557 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion:113 Resp: 79188
Ion Ratio Lower Upper
113 100
111 103.9 82.7 124.1
192 19.7 14.8 22.2



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

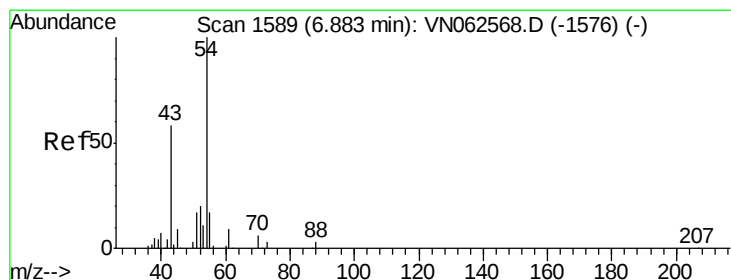
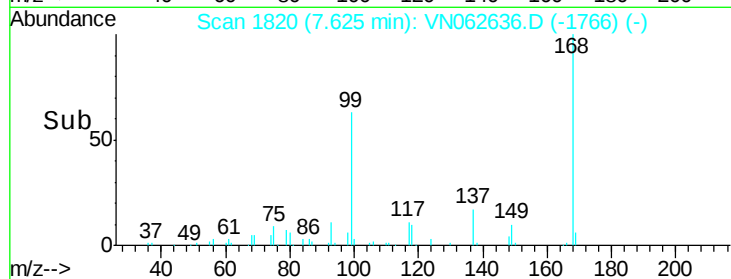
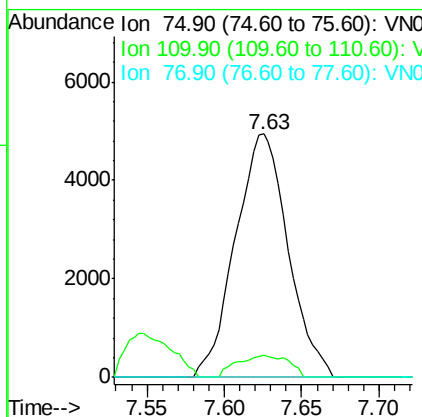
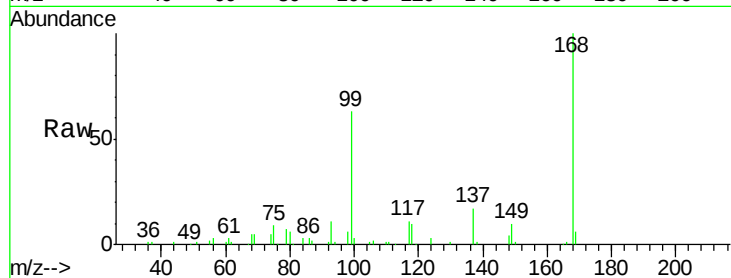




#36
 1,1-Dichloropropene
 Concen: 4.505 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

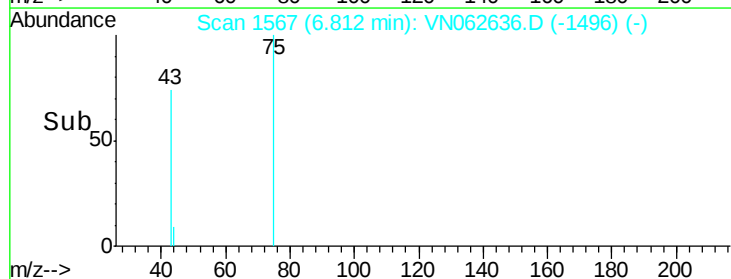
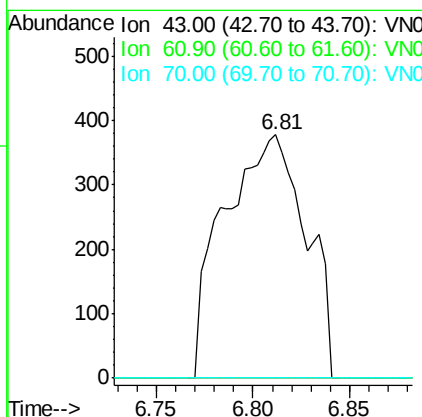
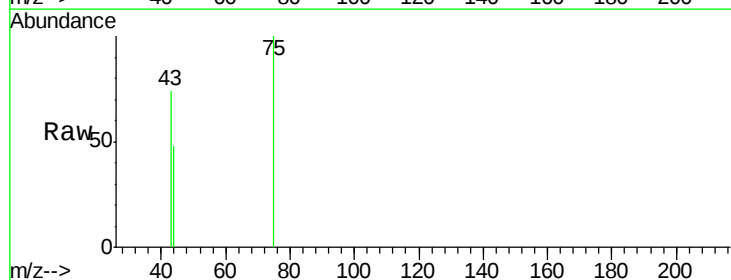
Instrument :
 MSVOA_N
 ClientSampled :

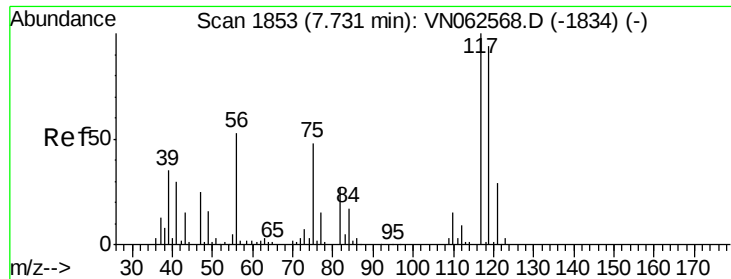
Tot Ion: 75 Resp: 11680
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.0 48.0#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.397 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.07 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Tgt Ion: 43 Resp: 1111
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.0 7.7 11.5#

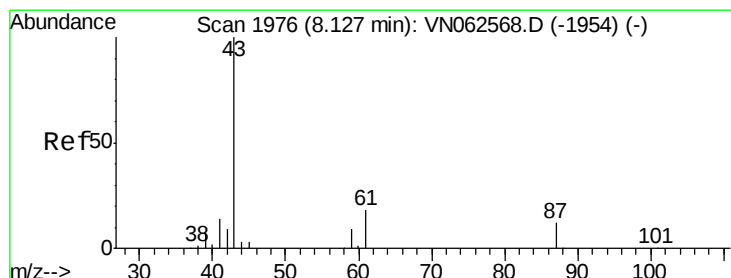
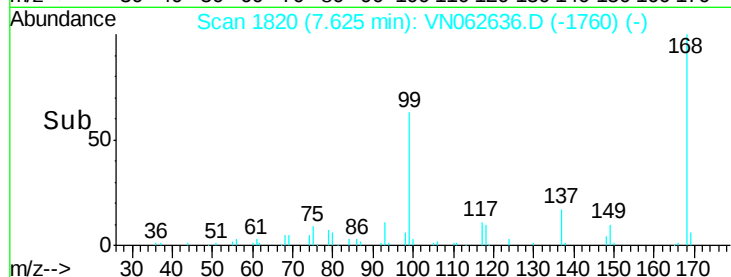
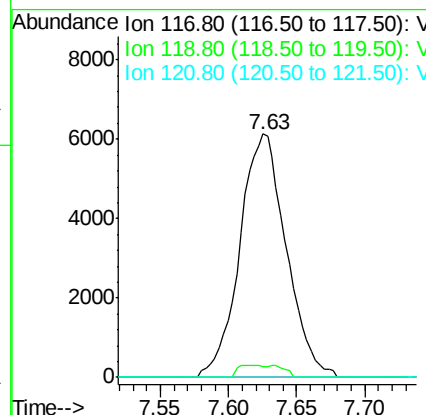
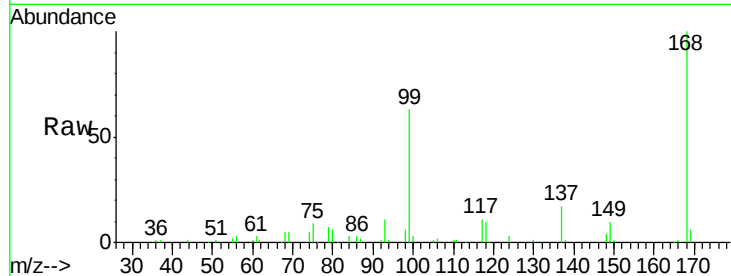




#38
Carbon Tetrachloride
Concen: 5.800 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

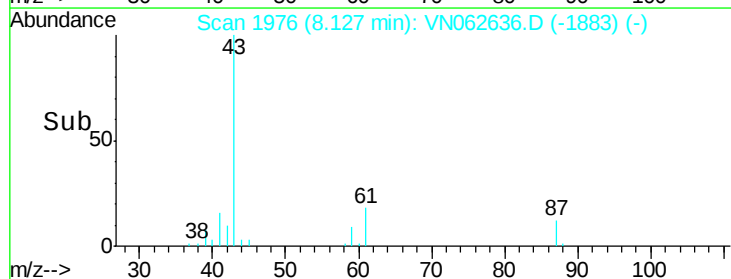
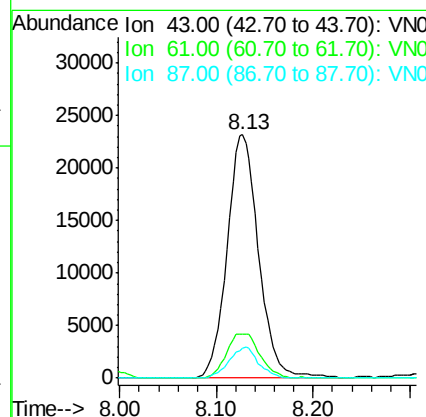
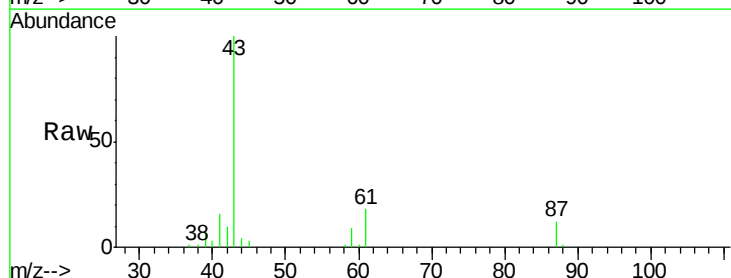
Instrument :
MSVOA_N
ClientSampled :

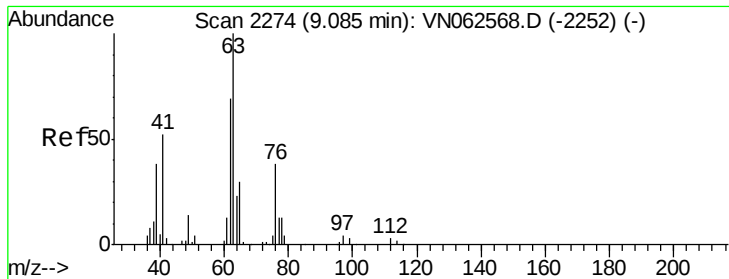
Tot Ion:117 Resp: 14456
Ion Ratio Lower Upper
117 100
119 4.4 74.8 112.2#
121 0.0 23.0 34.6#



#43
Isopropyl Acetate
Concen: 11.639 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion: 43 Resp: 52443
Ion Ratio Lower Upper
43 100
61 19.2 20.8 31.2#
87 11.7 9.2 13.8





#45

1,2-Dichloropropane

Concen: 0.470 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

Instrument :

MSVOA_N

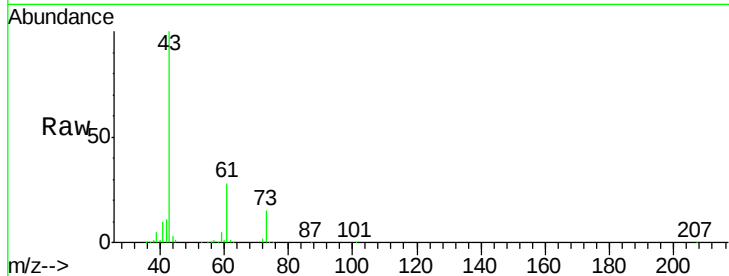
ClientSampleId :

Tot Ion: 63 Resp: 1036

Ion Ratio Lower Upper

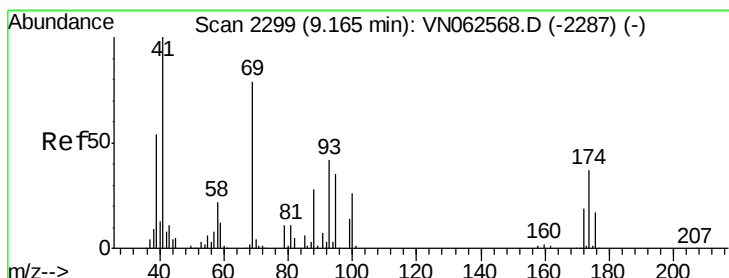
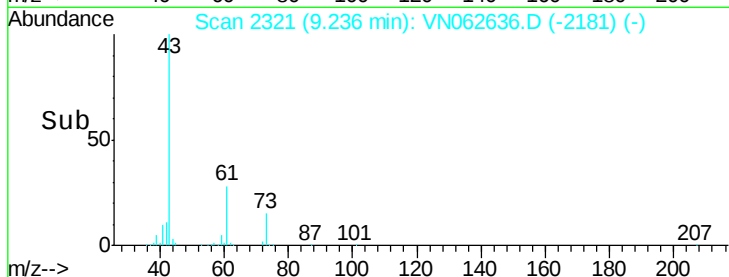
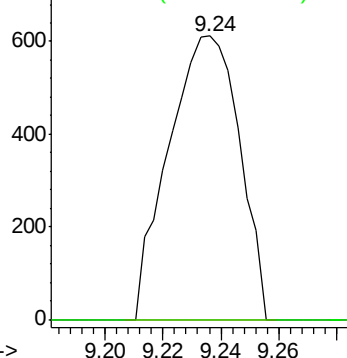
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.572 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

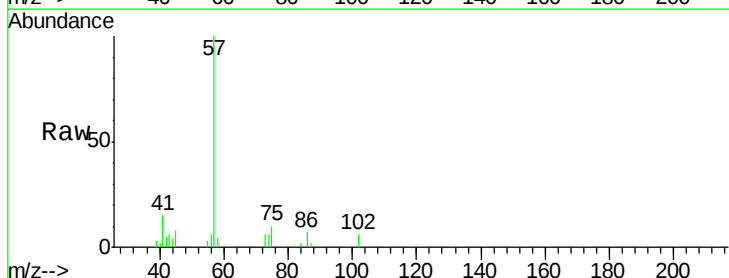
Tgt Ion: 41 Resp: 3367

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

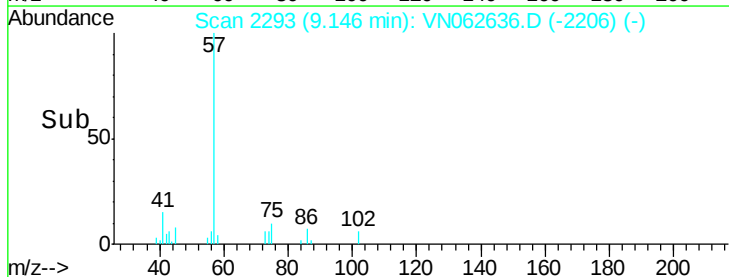
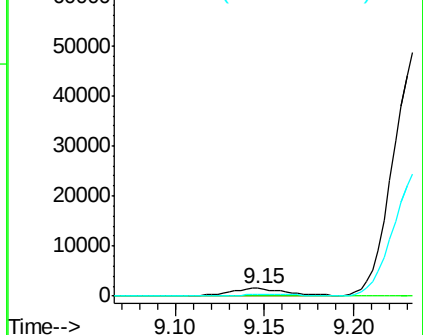
39 0.0 43.5 65.3#

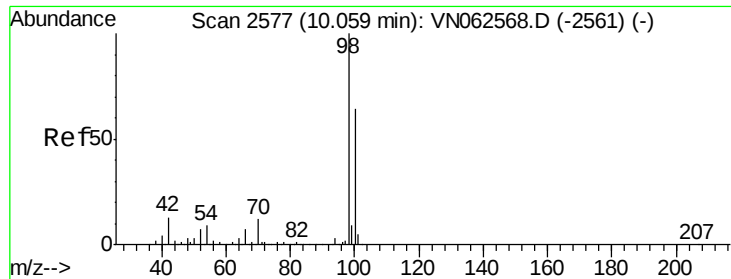


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 53.427 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

Instrument :

MSVOA_N

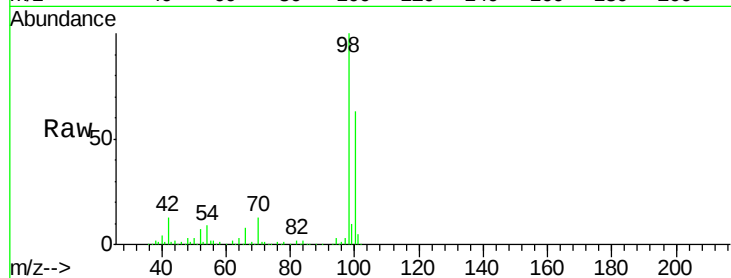
ClientSampled :

Tot Ion: 98 Resp: 340628

Ion Ratio Lower Upper

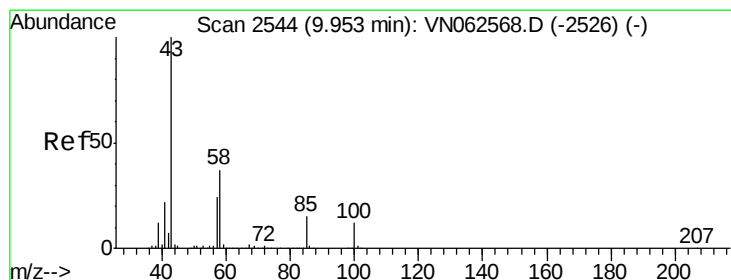
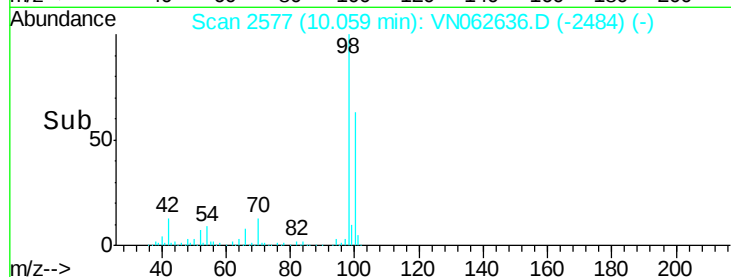
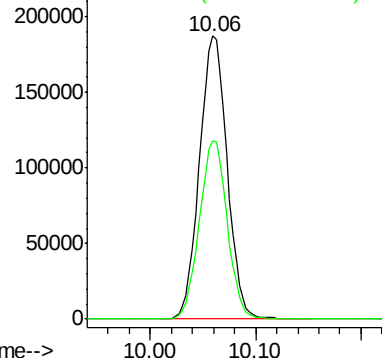
98 100

100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.523 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062636.D

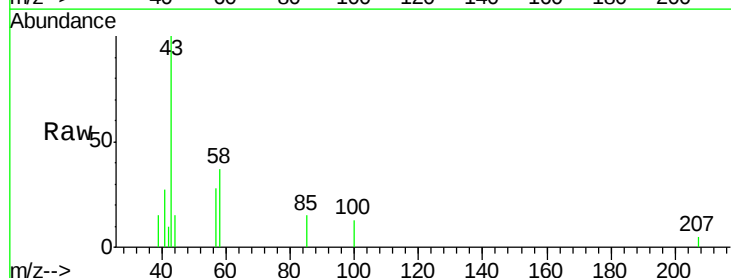
Acq: 28 Jul 2020 17:07

Tgt Ion: 43 Resp: 4106

Ion Ratio Lower Upper

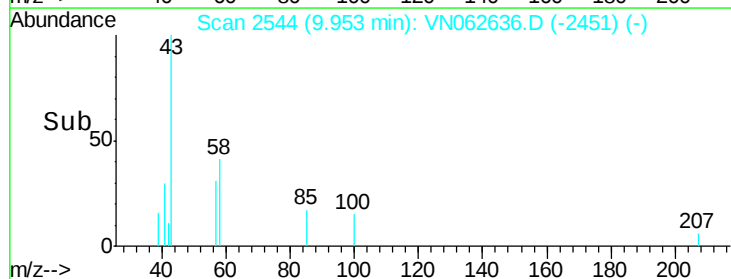
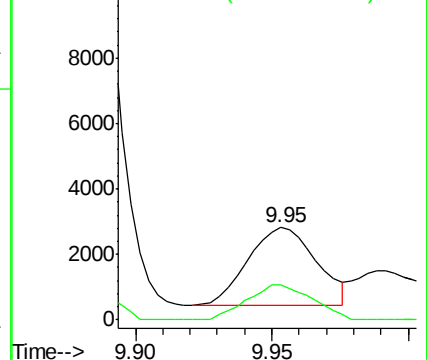
43 100

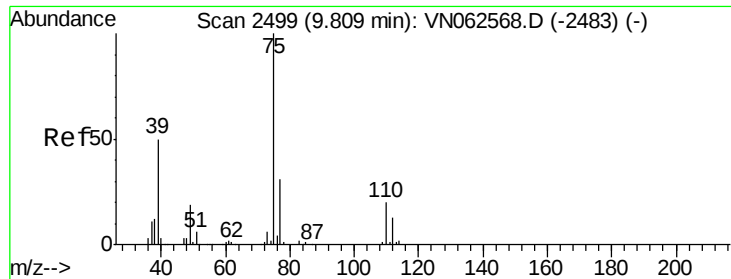
58 43.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



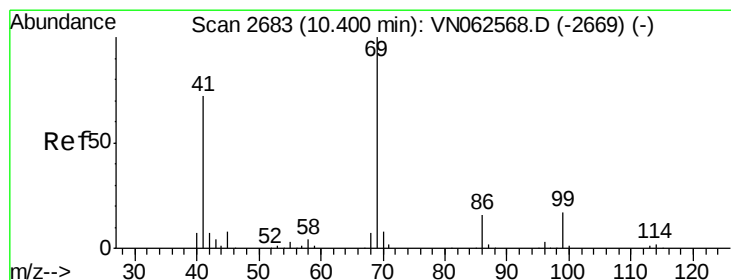
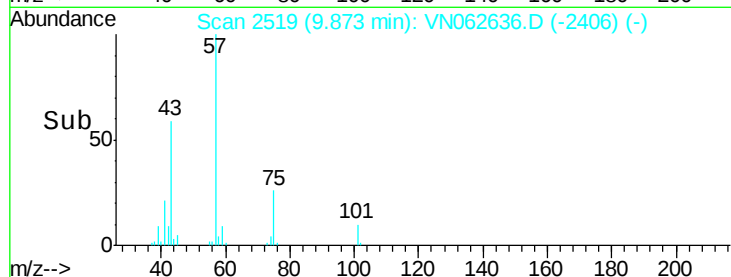
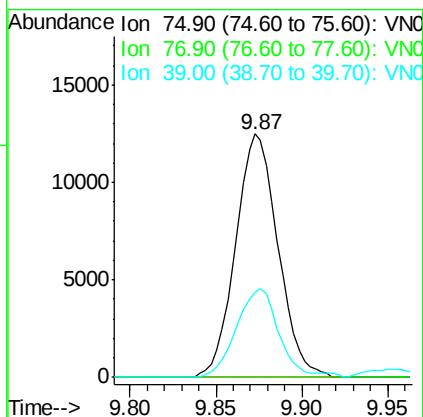
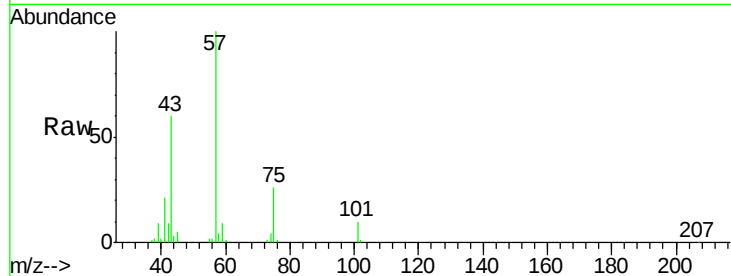


#54

cis-1,3-Dichloropropene
 Concen: 6.486 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Instrument :
 MSVOA_N
 ClientSampleId :

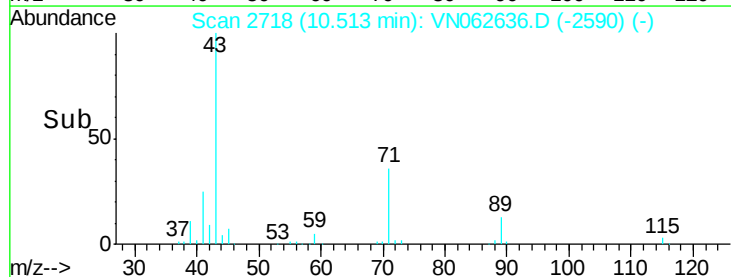
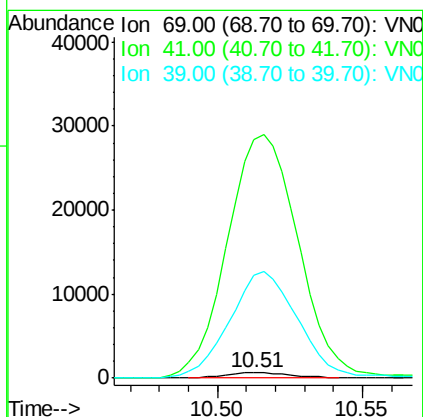
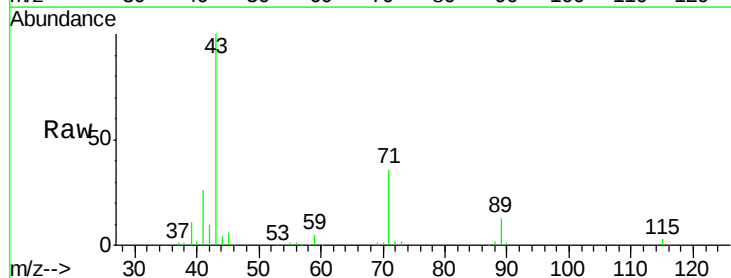
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	34.8	39.8	59.8#

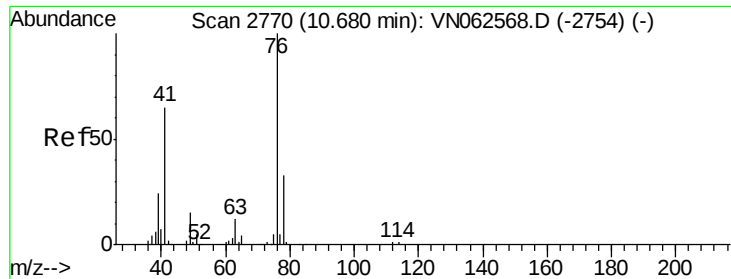


#56

Ethyl methacrylate
 Concen: 2.077 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4884.3	57.2	85.8#
39	2064.4	28.6	43.0#

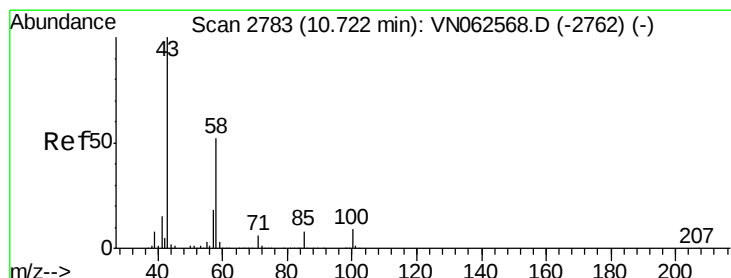
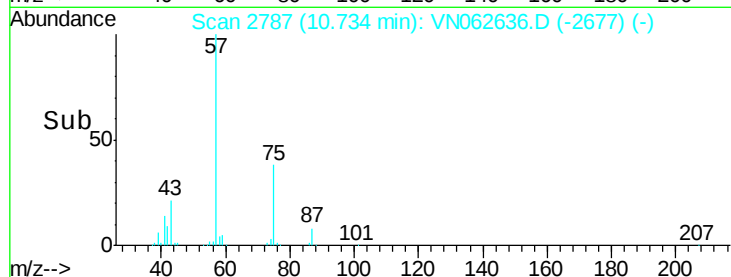
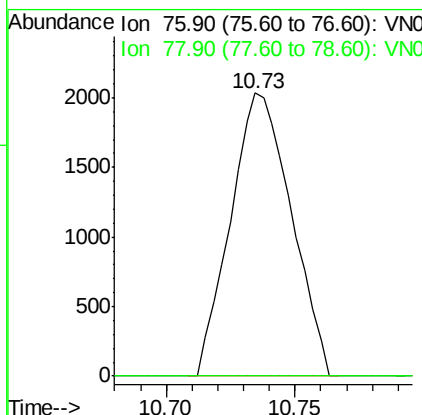
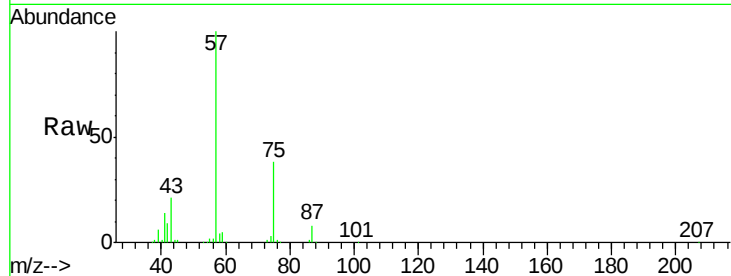




#57
 1,3-Dichloropropane
 Concen: 1.028 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

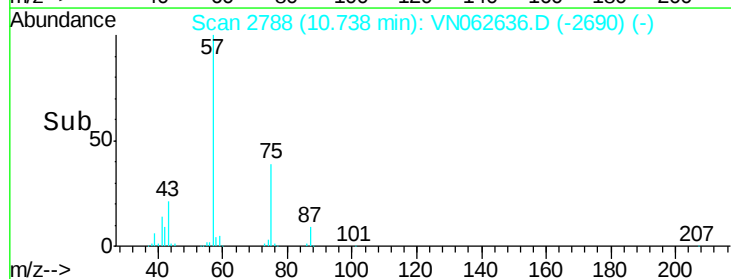
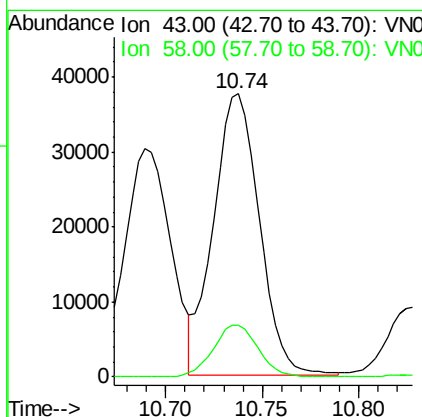
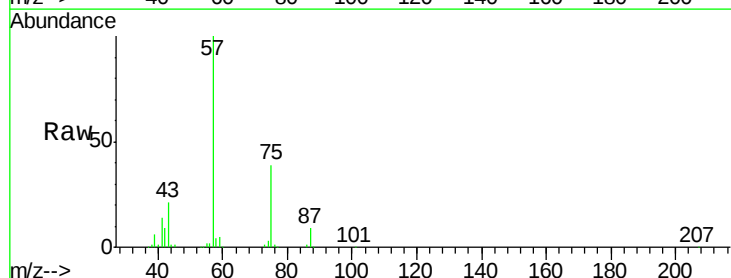
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 76 Resp: 3331
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 32.369 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Tgt Ion: 43 Resp: 62055
 Ion Ratio Lower Upper
 43 100
 58 18.0 26.0 78.0#

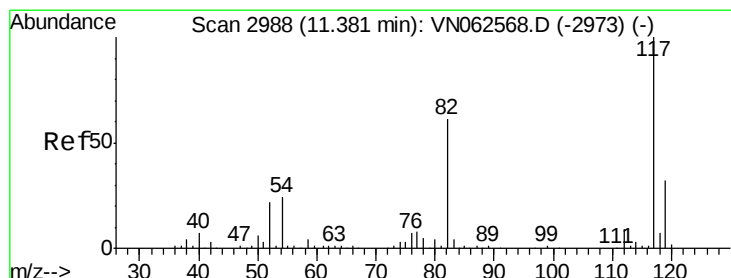
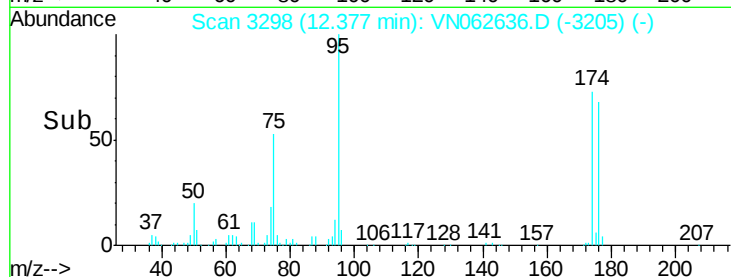
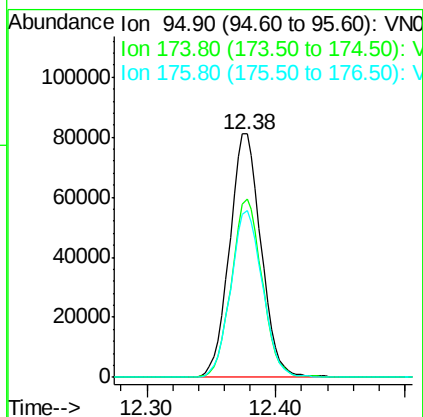
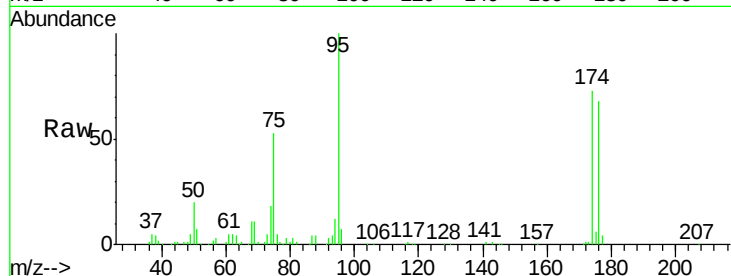




#62
4-Bromofluorobenzene
Concen: 59.066 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

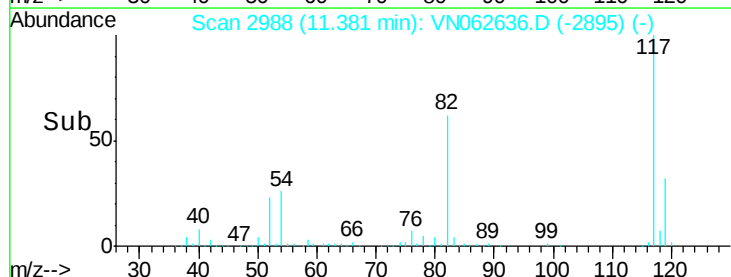
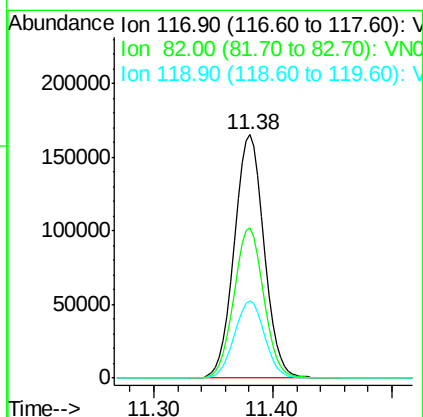
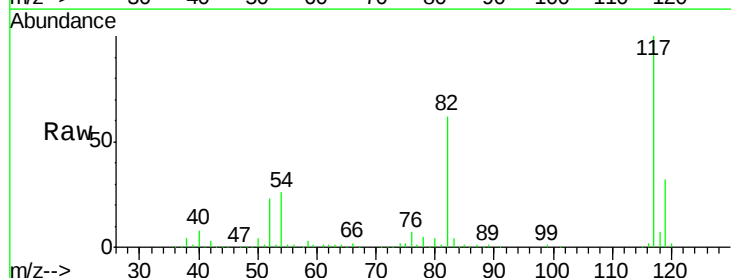
Instrument :
MSVOA_N
ClientSampleId :

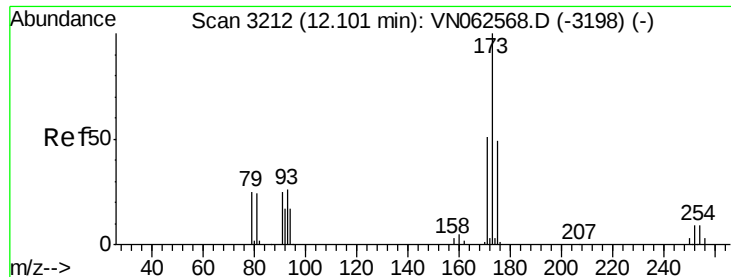
Tot Ion: 95 Resp: 137692
Ion Ratio Lower Upper
95 100
174 71.6 0.0 144.6
176 68.9 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062636.D
Acq: 28 Jul 2020 17:07

Tgt Ion: 117 Resp: 287375
Ion Ratio Lower Upper
117 100
82 61.8 49.0 73.6
119 31.9 25.4 38.2





#71

Bromoform

Concen: 0.520 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

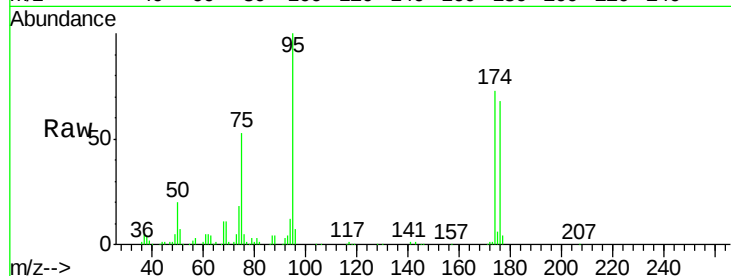
Tot Ion:173 Resp: 885

Ion Ratio Lower Upper

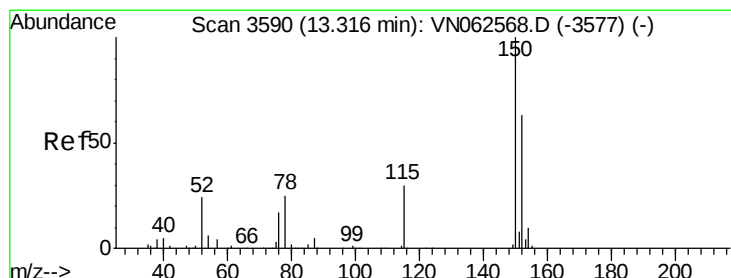
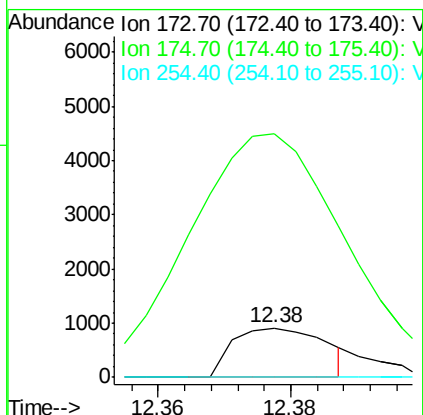
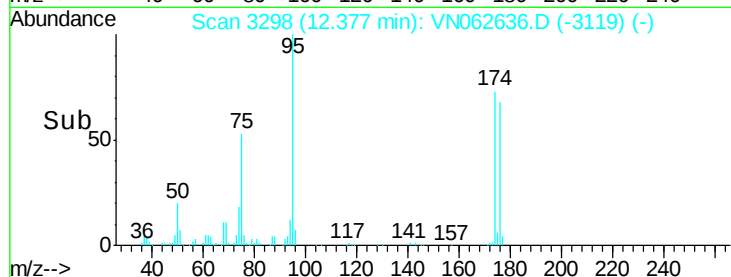
173 100

175 732.9 24.1 72.2#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

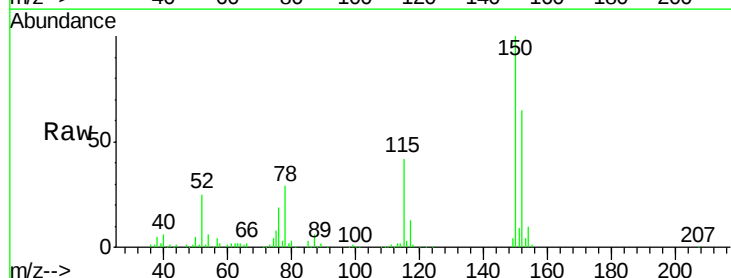
Tgt Ion:152 Resp: 101537

Ion Ratio Lower Upper

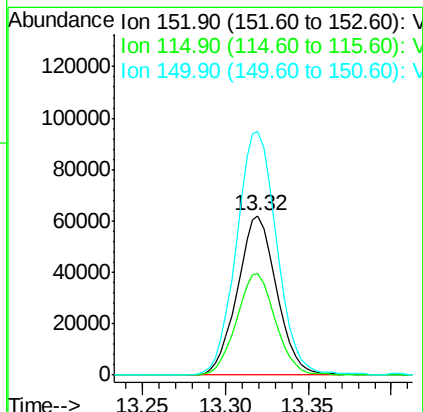
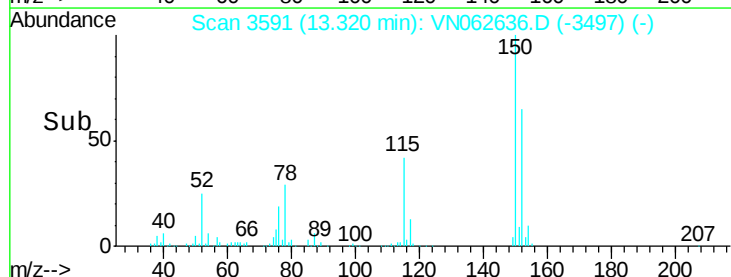
152 100

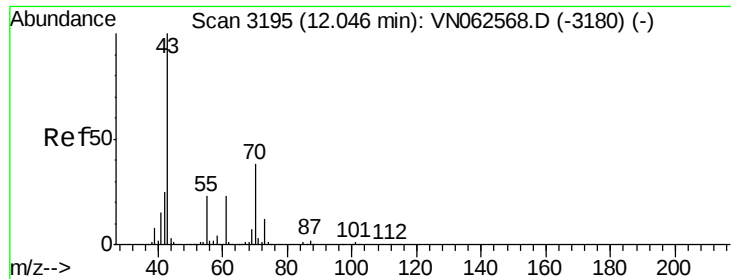
115 63.7 31.8 95.4

150 158.2 0.0 351.4



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: 0.941 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062636.D

Acq: 28 Jul 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3375

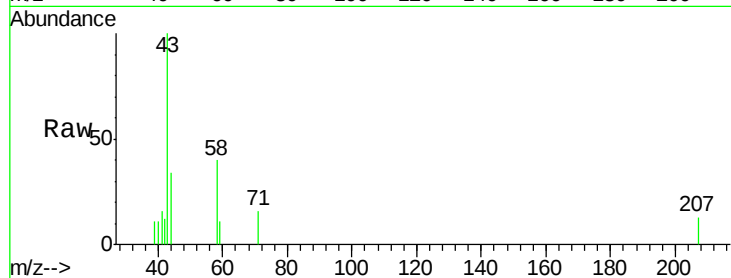
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

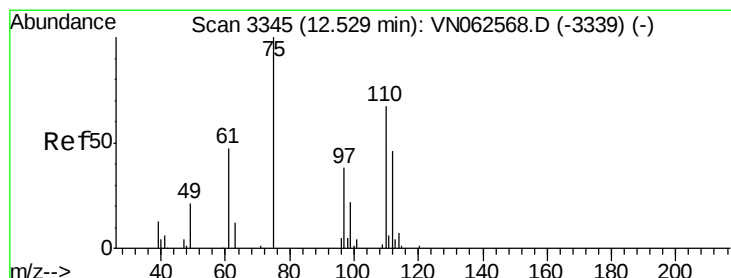
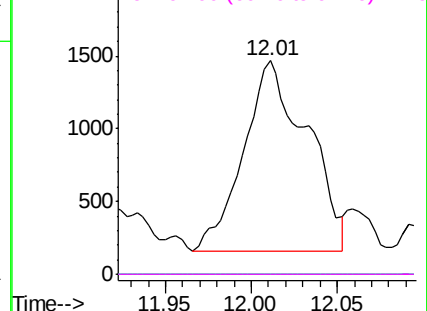
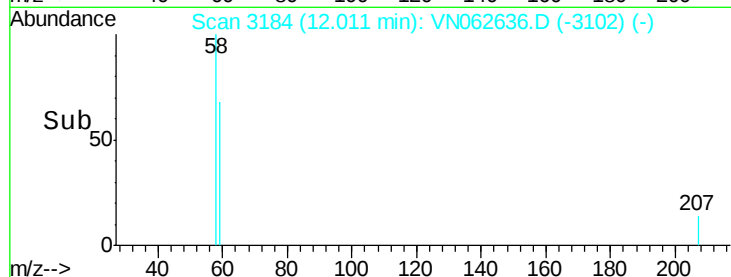


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.407 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062636.D

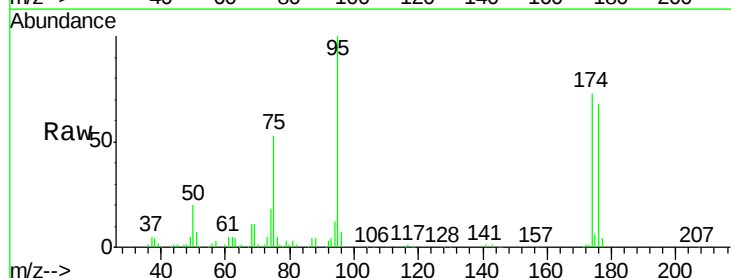
Acq: 28 Jul 2020 17:07

Tgt Ion: 75 Resp: 73416

Ion Ratio Lower Upper

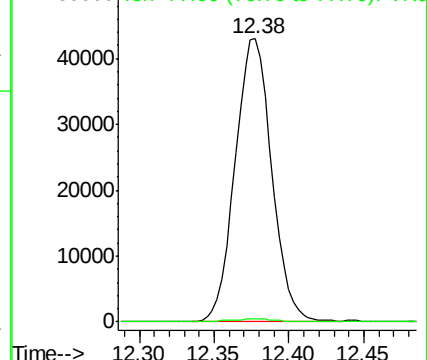
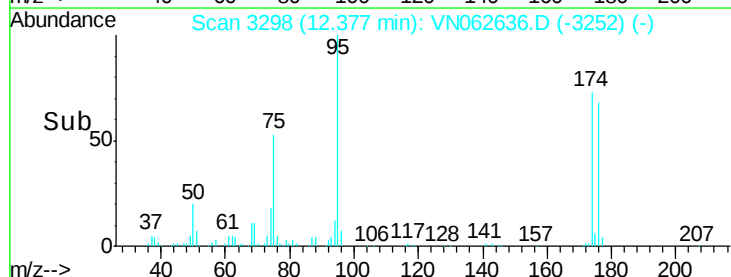
75 100

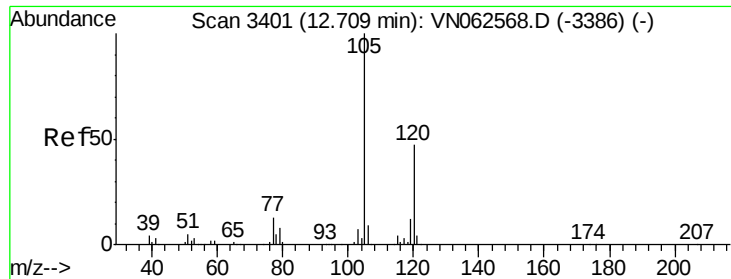
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

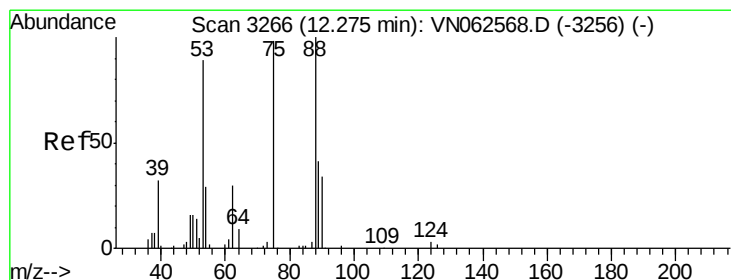
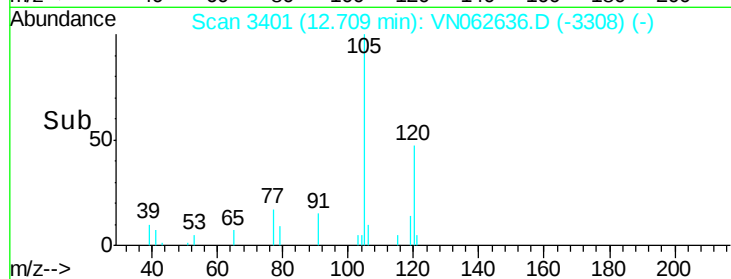
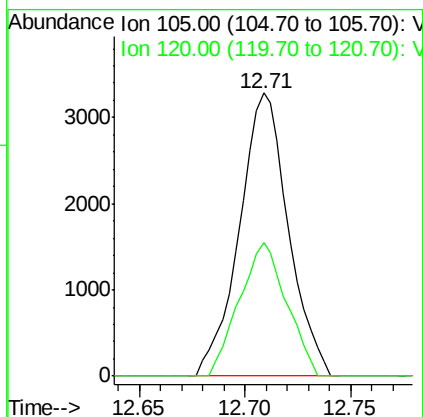
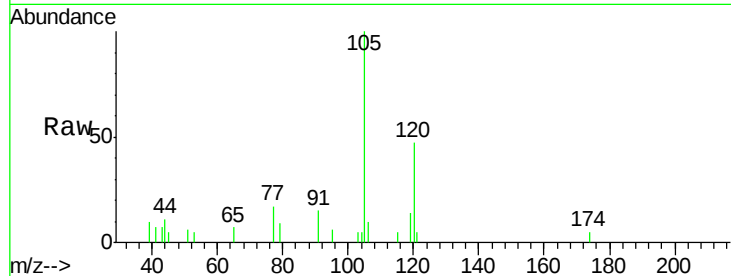




#80
 1,3,5-Trimethylbenzene
 Concen: 0.796 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:105 Resp: 5299
 Ion Ratio Lower Upper
 105 100
 120 45.4 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.077 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062636.D
 Acq: 28 Jul 2020 17:07

Tgt Ion: 75 Resp: 73416
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#

