

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110620\
 Data File : VN064494.D
 Acq On : 6 Nov 2020 19:40
 Operator : JC/MD
 Sample : L4656-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SR-L14-L13-SOUTH

Quant Time: Nov 07 03:52:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	242842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	523148	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	551534	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	206689	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	237974	56.26	ug/l	0.00
Spiked Amount			Recovery	=	112.52%	
35) Dibromofluoromethane	7.55	113	176306	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	10.06	98	675117	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
62) 4-Bromofluorobenzene	12.38	95	257559	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	

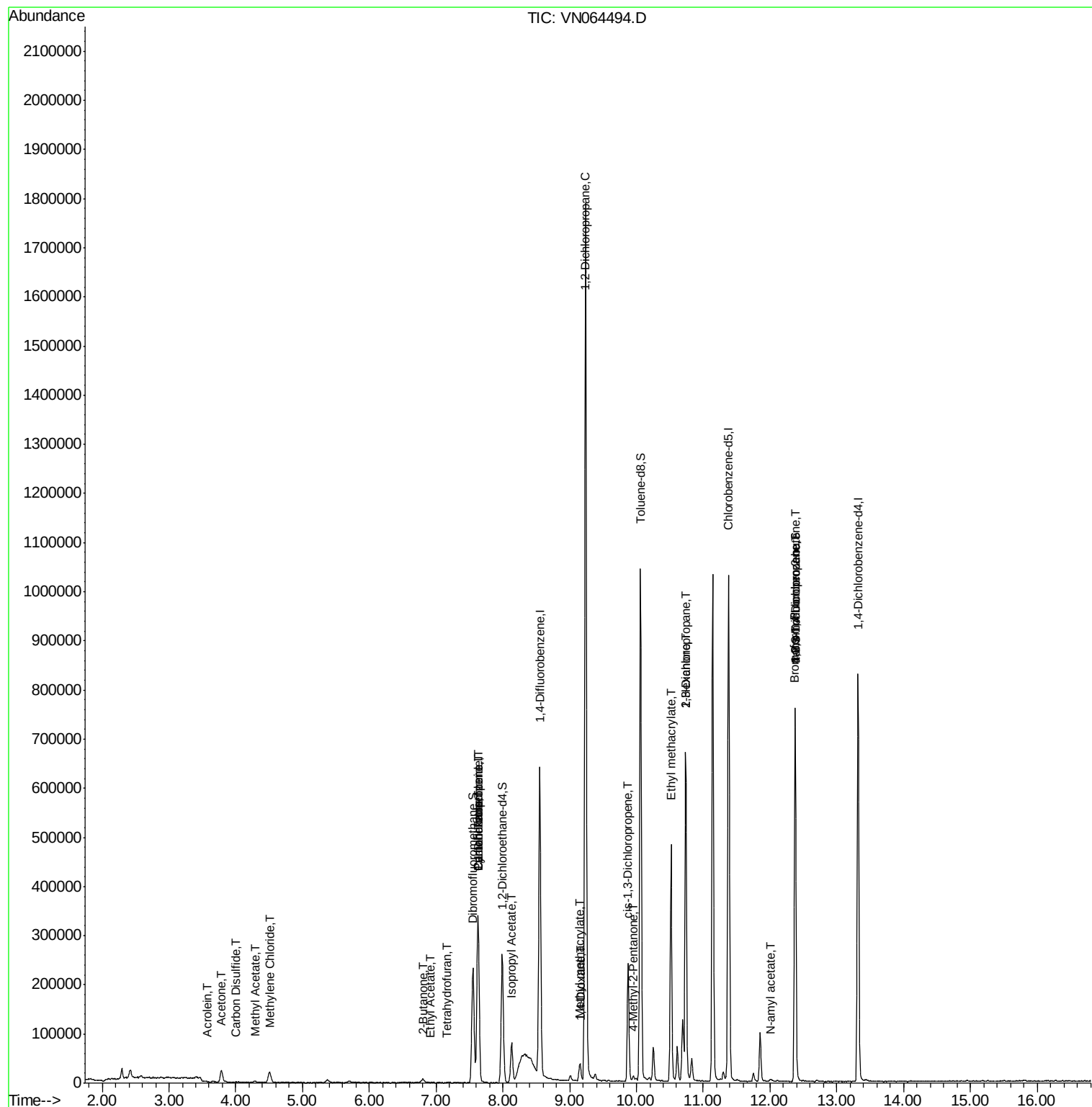
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.56	56	421	1.455	ug/l	95
16) Acetone	3.78	43	42810	26.569	ug/l	100
17) Carbon Disulfide	4.00	76	1555	0.200	ug/l #	76
18) Methyl Acetate	4.29	43	4887	1.543	ug/l	95
20) Methylene Chloride	4.50	84	14158	4.429	ug/l	93
25) 2-Butanone	6.80	43	11101	5.407	ug/l	91
29) Tetrahydrofuran	7.16	42	375	0.298	ug/l #	37
31) Cyclohexane	7.63	56	7618	1.482	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	24421	4.419	ug/l #	49
37) Ethyl Acetate	6.93	43	588	0.866	ug/l #	71
38) Carbon Tetrachloride	7.62	117	28024	4.744	ug/l #	19
43) Isopropyl Acetate	8.13	43	98810	11.032	ug/l	99
45) 1,2-Dichloropropane	9.23	63	2136	0.493	ug/l #	45
48) Methyl methacrylate	9.15	41	5524	1.222	ug/l #	15
49) 1,4-Dioxane	9.17	88	62	1.042	ug/l #	21
51) 4-Methyl-2-Pentanone	9.96	43	5122	0.981	ug/l #	76
54) cis-1,3-Dichloropropene	9.87	75	36512	5.252	ug/l #	68
56) Ethyl methacrylate	10.52	69	3149	2.318	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6812	1.010	ug/l #	42
59) 2-Hexanone	10.74	43	104799	28.237	ug/l #	55
71) Bromoform	12.36	173	259	1.350	ug/l #	1
74) N-amyl acetate	12.01	43	2809	1.558	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	145885	29.131	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	145885	81.337	ug/l #	8

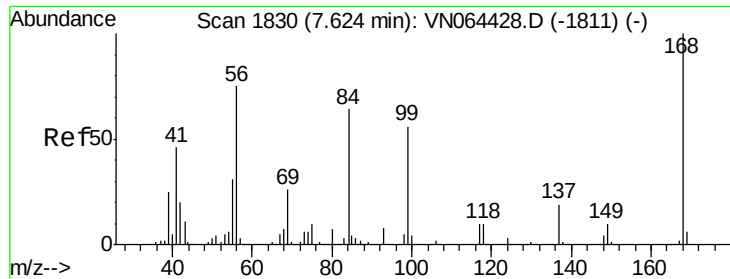
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

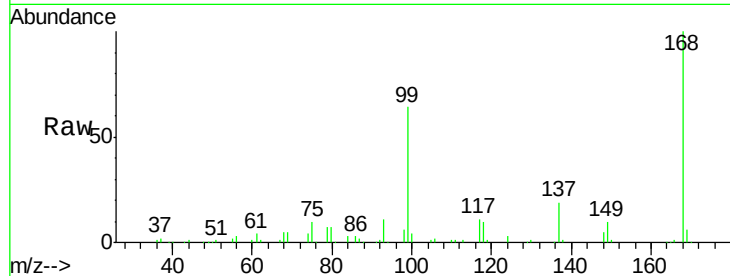
SR-L14-L13-SOUTH

Tot Ion:168 Resp: 242842

Ion Ratio Lower Upper

168 100

99 64.4 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

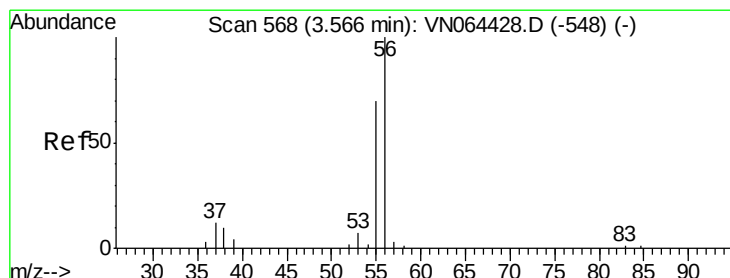
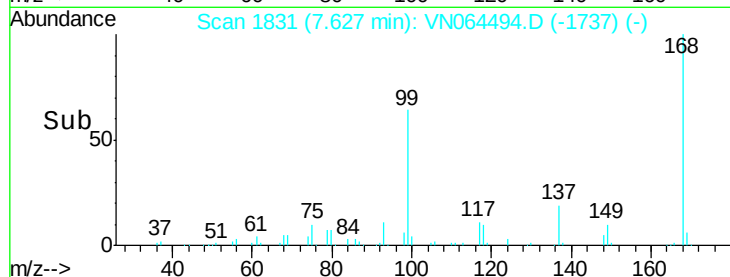
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 1.455 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN064494.D

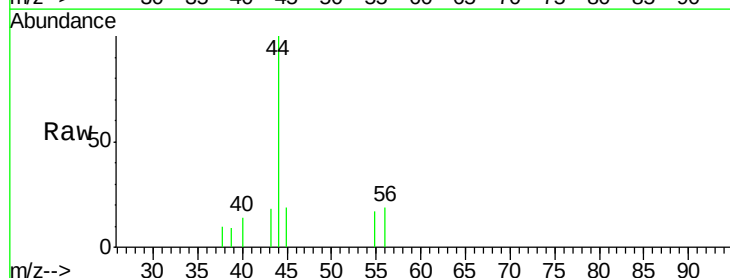
Acq: 6 Nov 2020 19:40

Tgt Ion: 56 Resp: 421

Ion Ratio Lower Upper

56 100

55 73.6 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.56

400

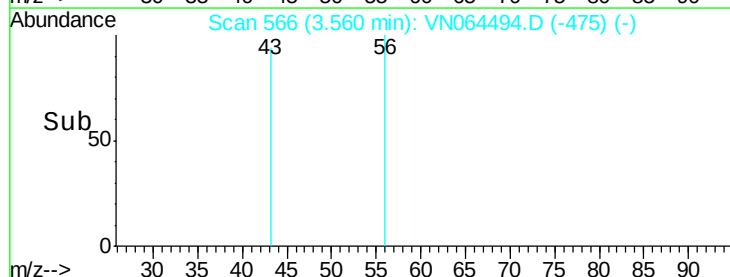
300

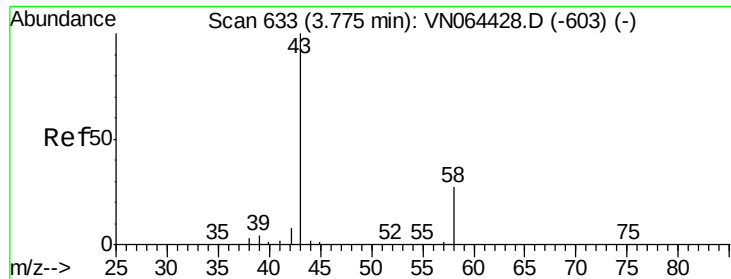
200

100

0

Time-->

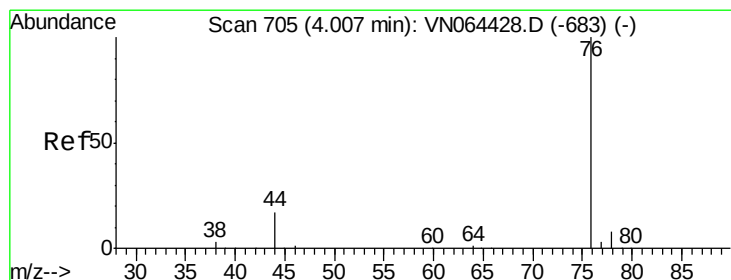
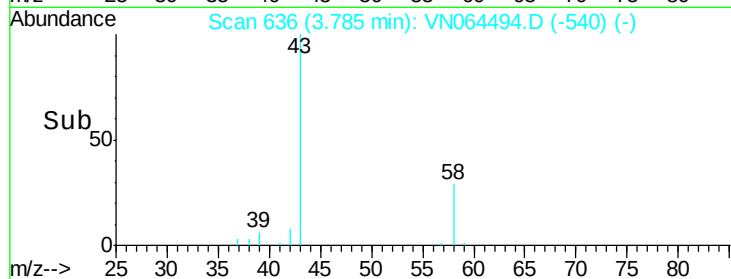
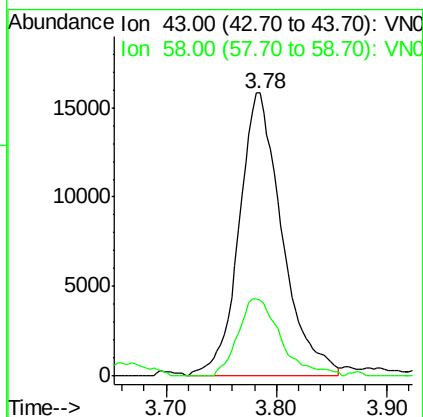
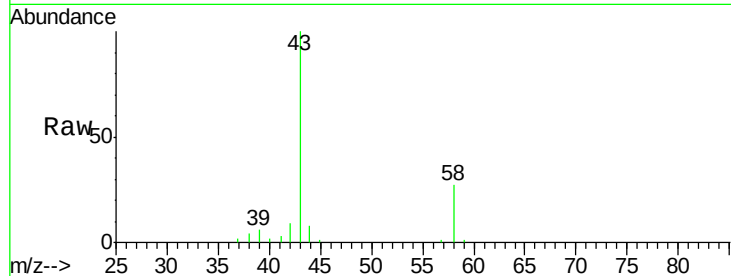




#16
Acetone
Concen: 26.569 ug/l
RT: 3.78 min Scan# 636
Delta R.T. 0.01 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

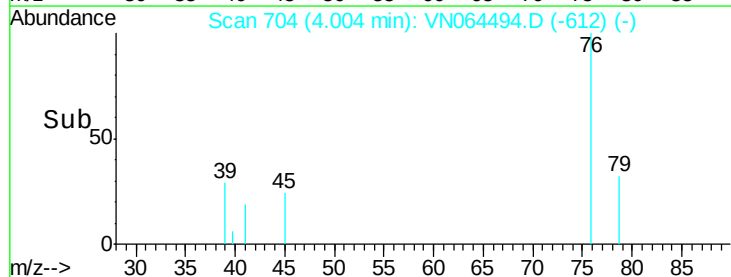
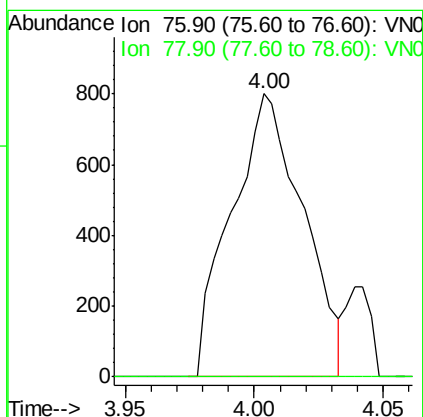
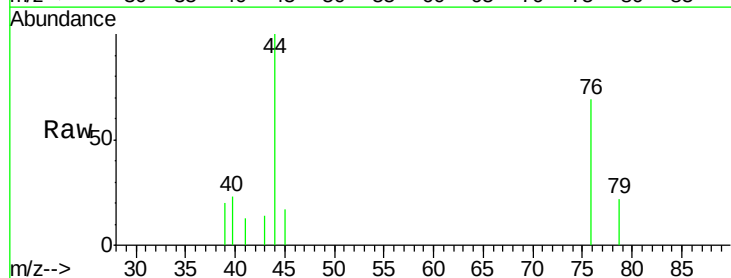
Instrument :
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SR-L14-L13-SOUTH

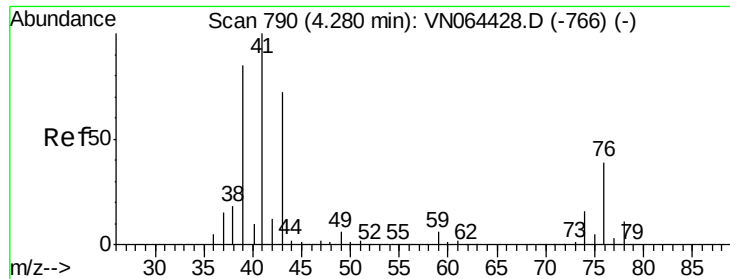
Tot Ion: 43 Resp: 42810
Ion Ratio Lower Upper
43 100
58 26.7 21.4 32.0



#17
Carbon Disulfide
Concen: 0.200 ug/l
RT: 4.00 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Tgt Ion: 76 Resp: 1555
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

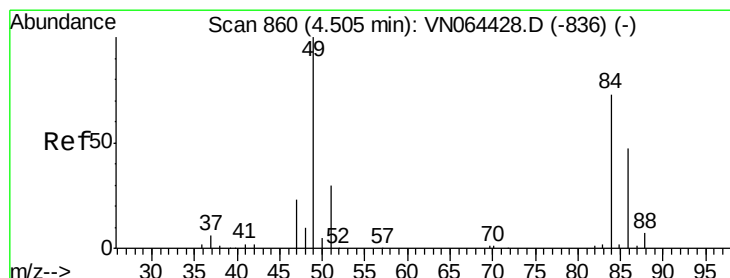
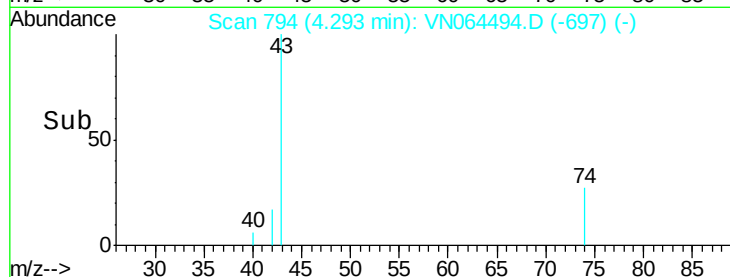
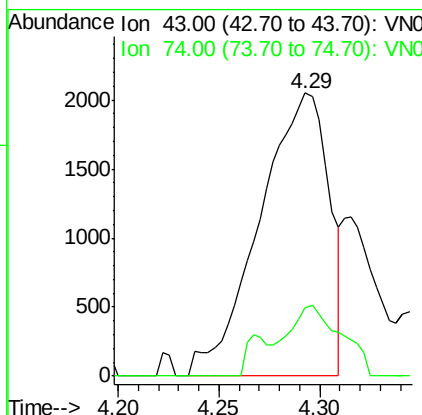
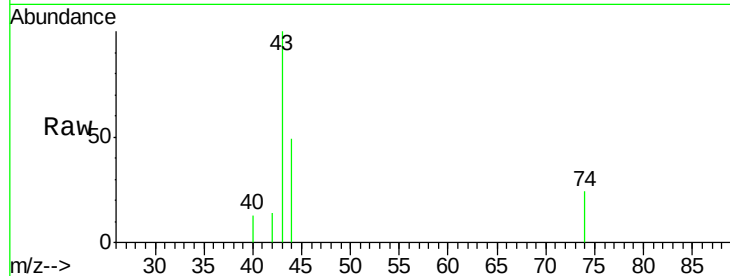




#18
Methyl Acetate
Concen: 1.543 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.01 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

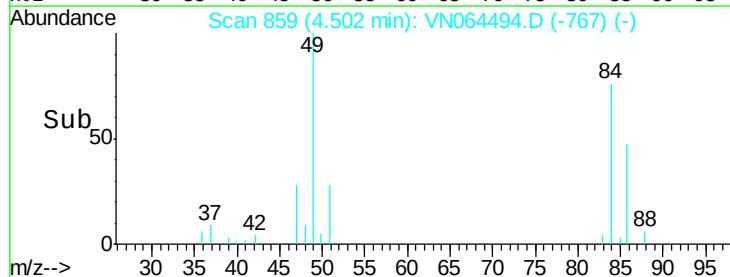
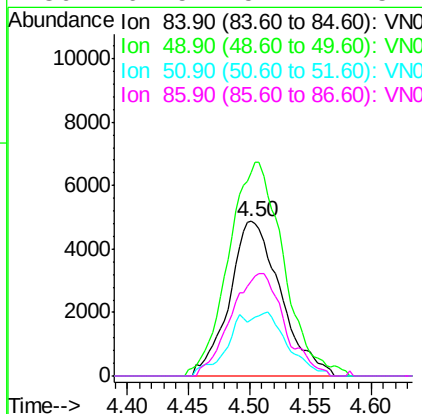
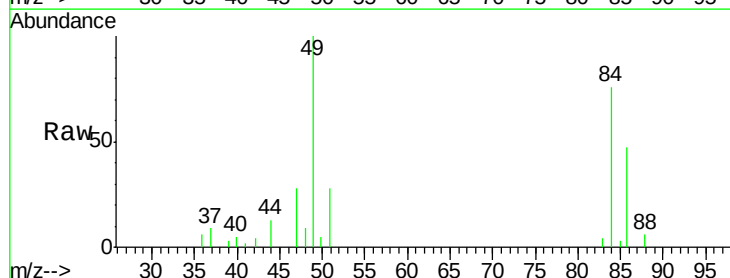
Instrument :
MSVOA_N
ClientSampleId :
SR-L14-L13-SOUTH

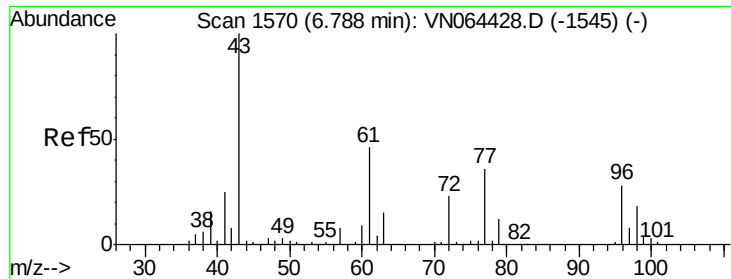
Tot Ion: 43 Resp: 4887
Ion Ratio Lower Upper
43 100
74 18.7 17.0 25.4



#20
Methylene Chloride
Concen: 4.429 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Tgt Ion: 84 Resp: 14158
Ion Ratio Lower Upper
84 100
49 127.4 110.1 165.1
51 36.4 33.6 50.4
86 61.5 52.1 78.1





#25

2-Butanone

Concen: 5.407 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

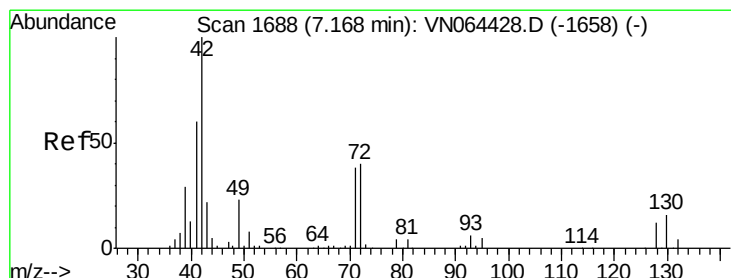
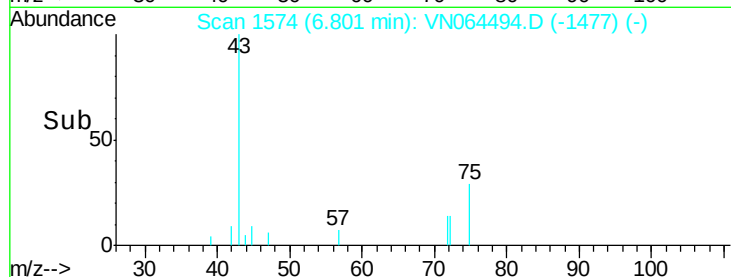
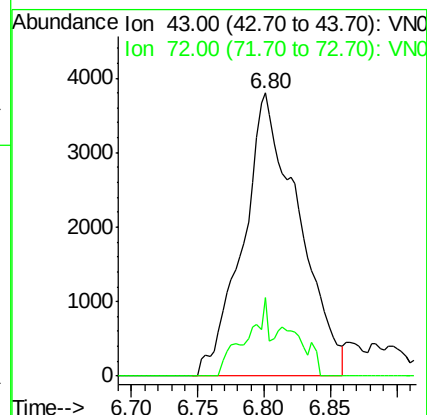
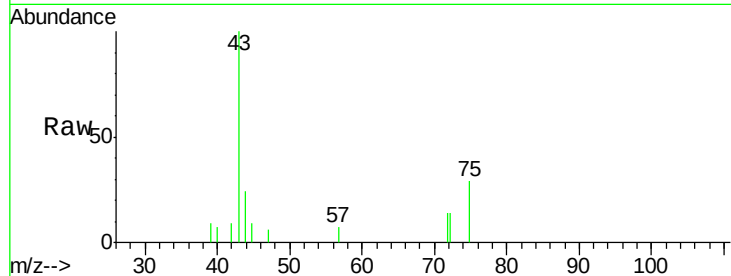
SR-L14-L13-SOUTH

Tot Ion: 43 Resp: 11101

Ion Ratio Lower Upper

43 100

72 27.7 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.298 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

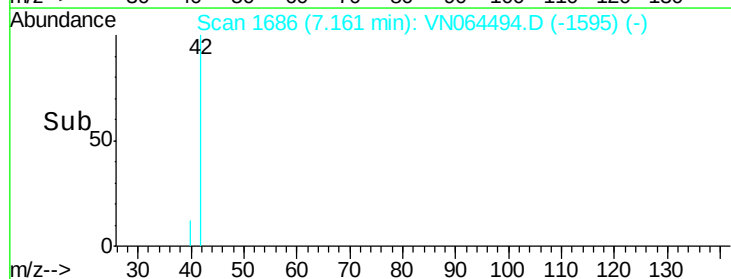
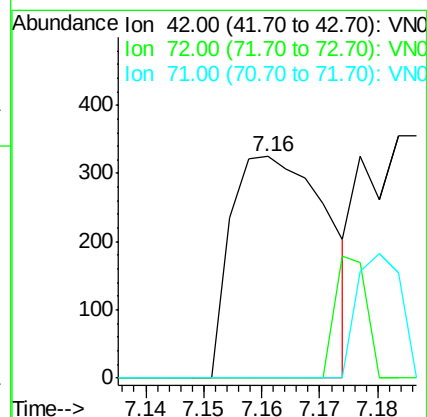
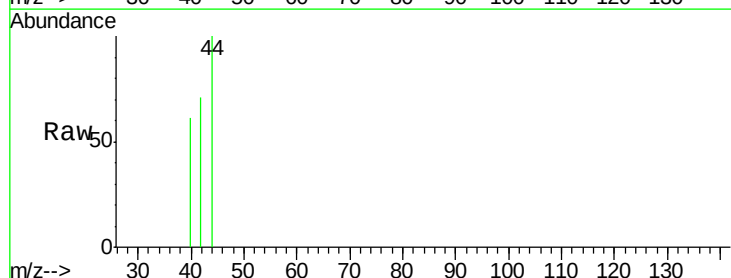
Tgt Ion: 42 Resp: 375

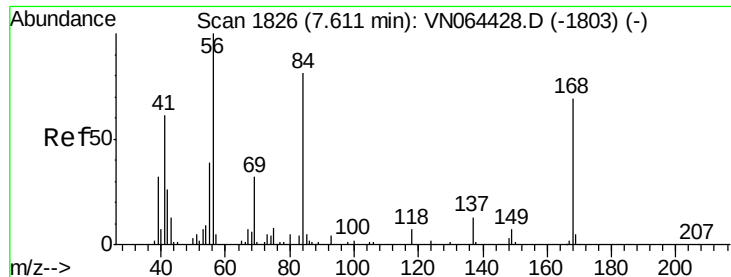
Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 0.0 29.8 44.6#

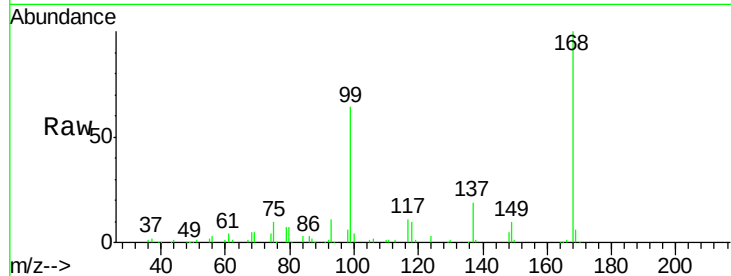




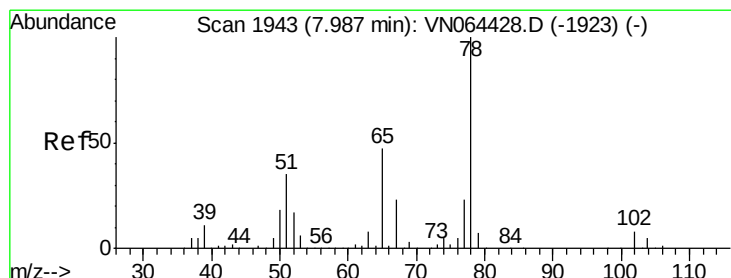
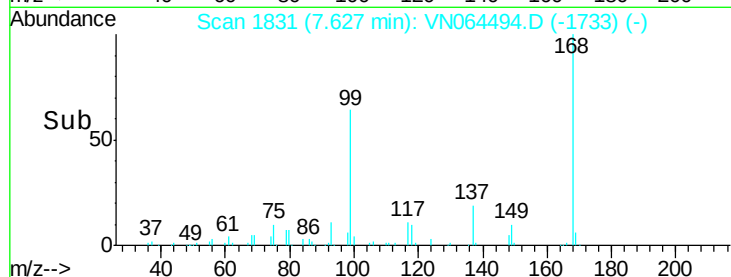
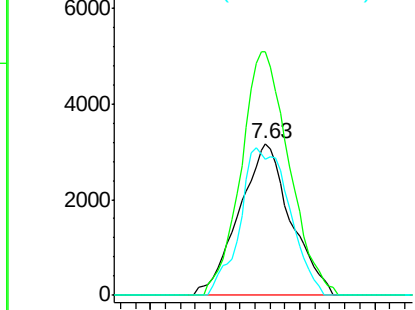
#31
Cyclohexane
Concen: 1.482 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Instrument :
MSVOA_N
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SR-L14-L13-SOUTH

Tot Ion: 56 Resp: 7618
Ion Ratio Lower Upper
56 100
69 160.4 25.6 38.4#
84 90.0 63.0 94.6

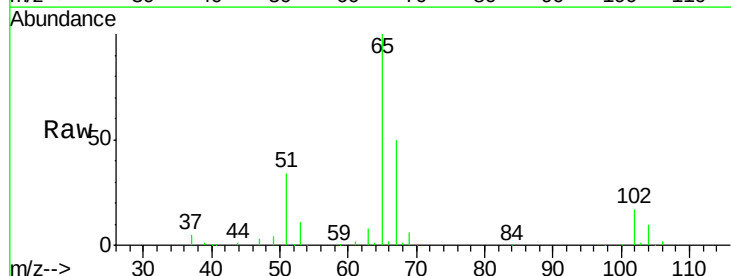


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

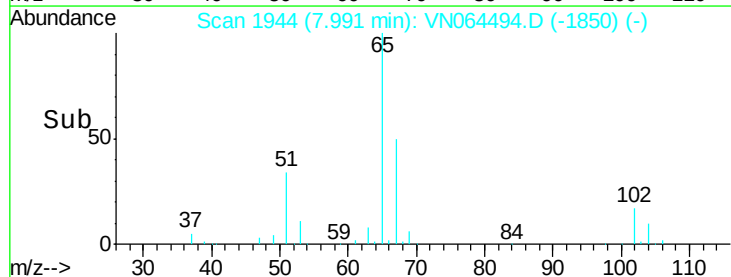
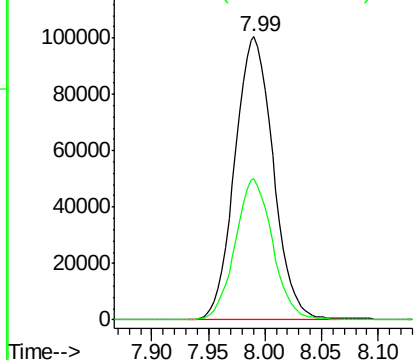


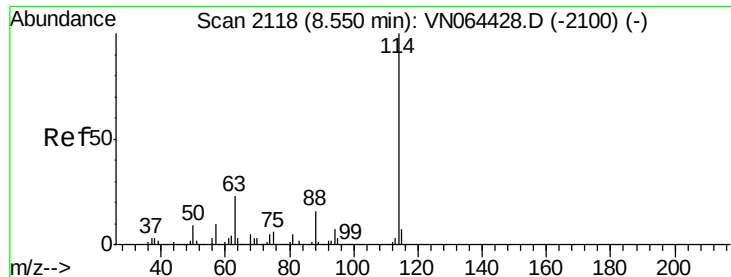
#33
1,2-Dichloroethane-d4
Concen: 56.260 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Tgt Ion: 65 Resp: 237974
Ion Ratio Lower Upper
65 100
67 48.5 0.0 101.6



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

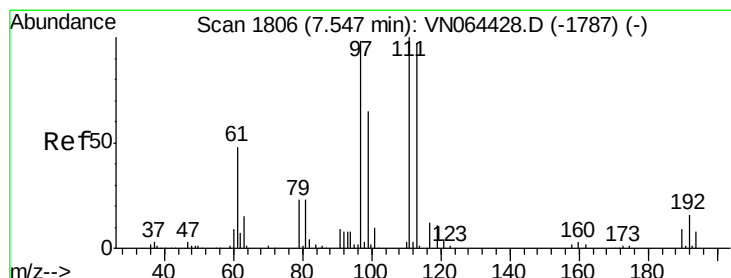
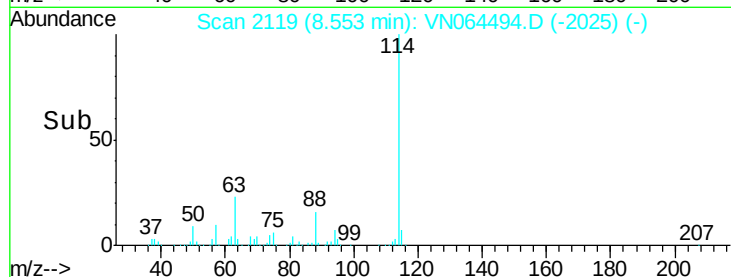
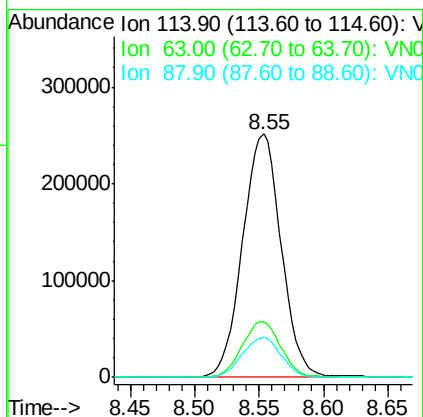
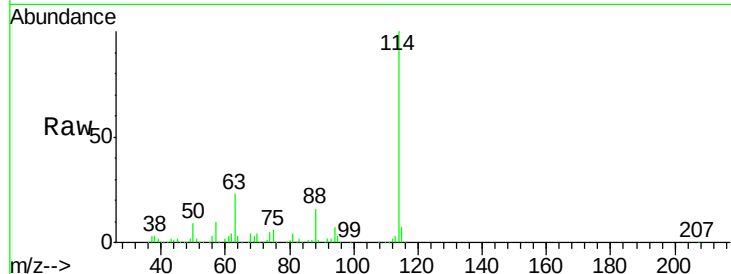




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

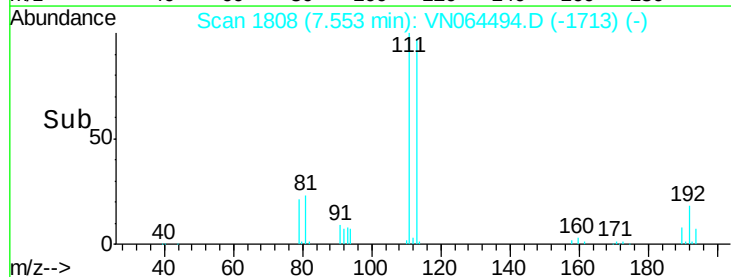
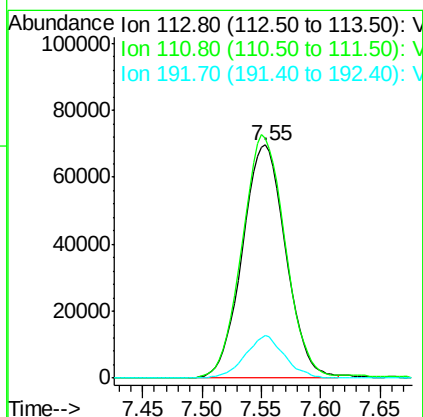
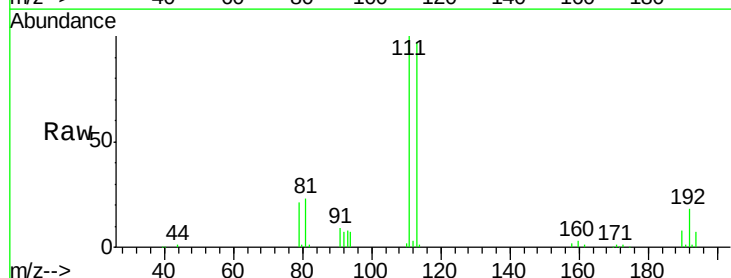
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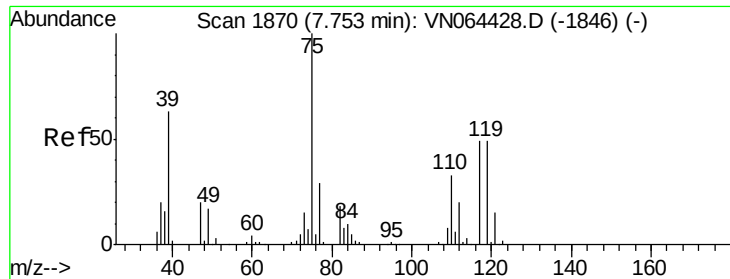
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	45.6
88	16.4	0.0	32.8



#35
 Dibromofluoromethane
 Concen: 49.497 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.1	121.7
192	16.5	12.8	19.2

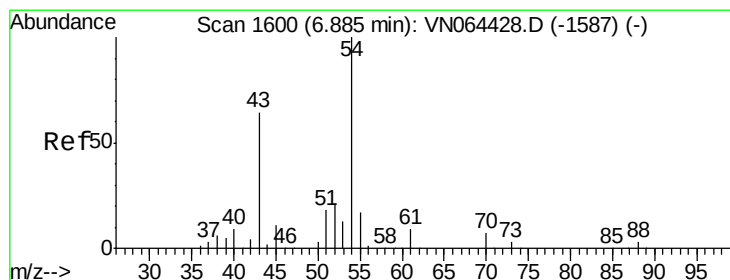
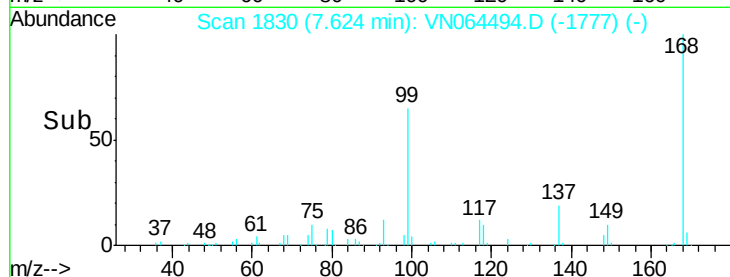
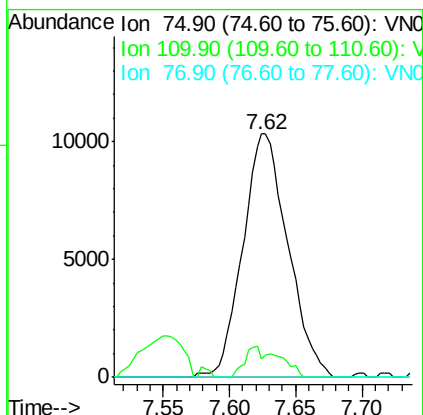
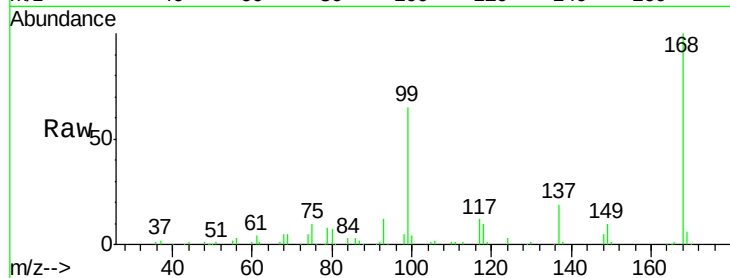




#36
 1,1-Dichloropropene
 Concen: 4.419 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

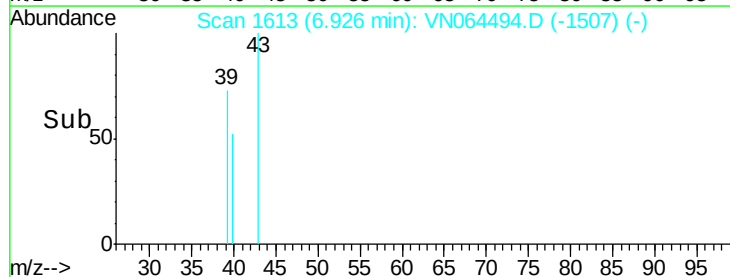
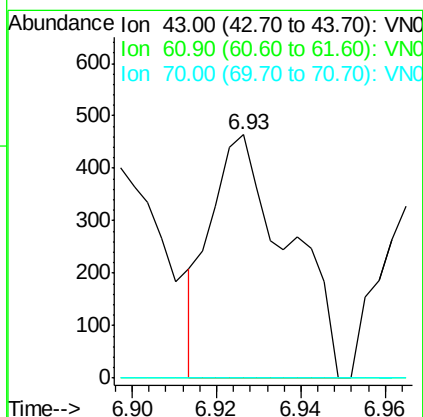
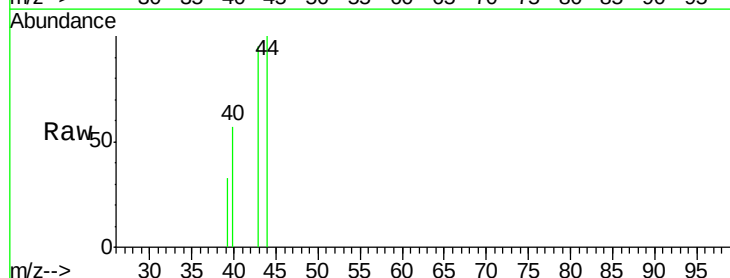
Instrument :
 MSVOA_N
 ClientSampleId :
 SR-L14-L13-SOUTH

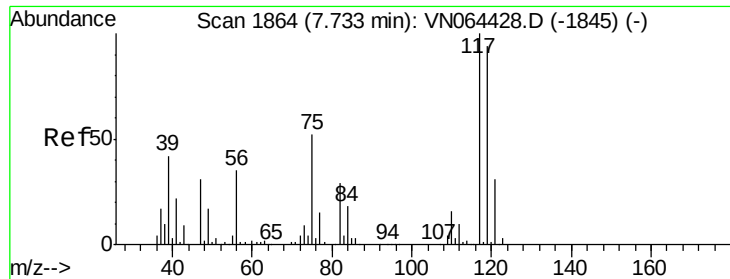
Tot Ion: 75 Resp: 24421
 Ion Ratio Lower Upper
 75 100
 110 5.3 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.866 ug/l
 RT: 6.93 min Scan# 1613
 Delta R.T. 0.04 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Tgt Ion: 43 Resp: 588
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 4.744 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

SR-L14-L13-SOUTH

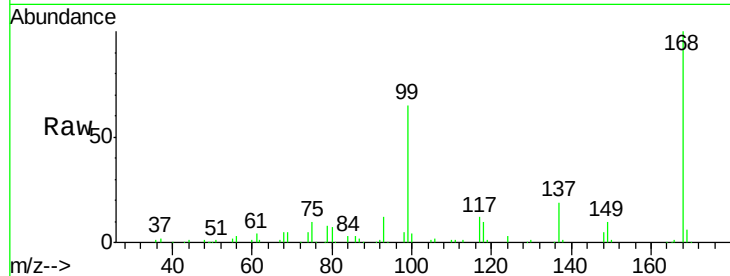
Tot Ion:117 Resp: 28024

Ion Ratio Lower Upper

117 100

119 8.4 75.5 113.3#

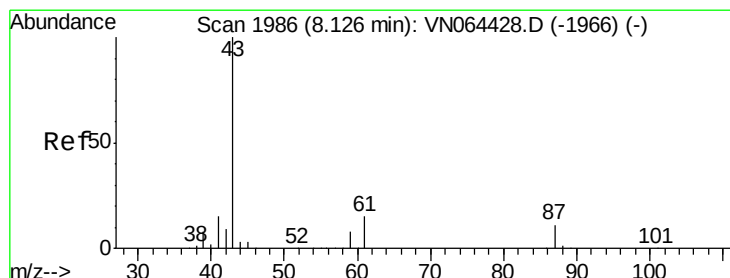
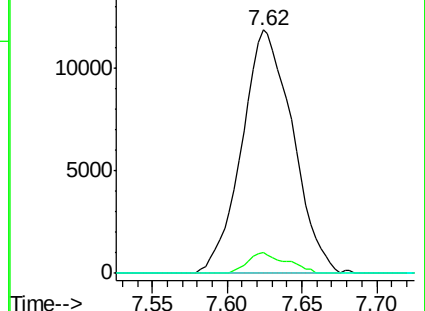
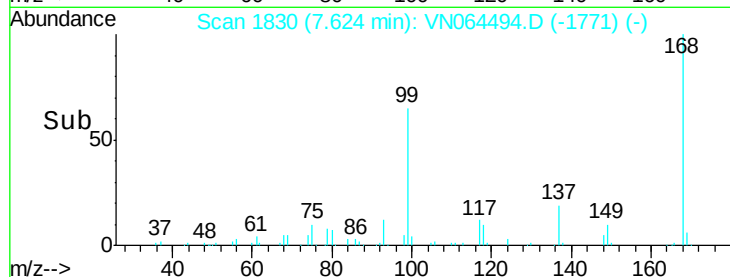
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.032 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

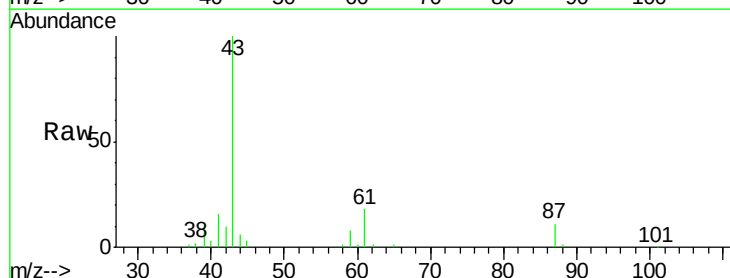
Tgt Ion: 43 Resp: 98810

Ion Ratio Lower Upper

43 100

61 16.8 14.0 21.0

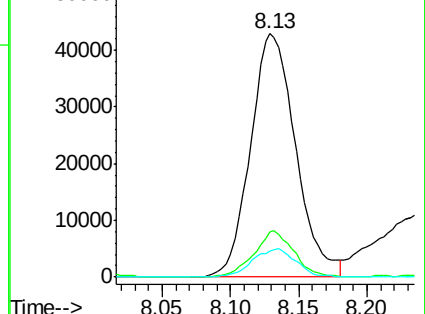
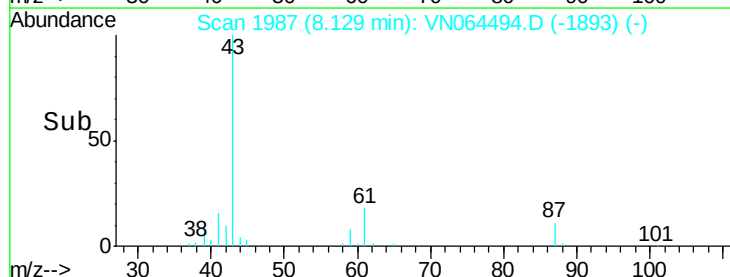
87 11.1 9.1 13.7

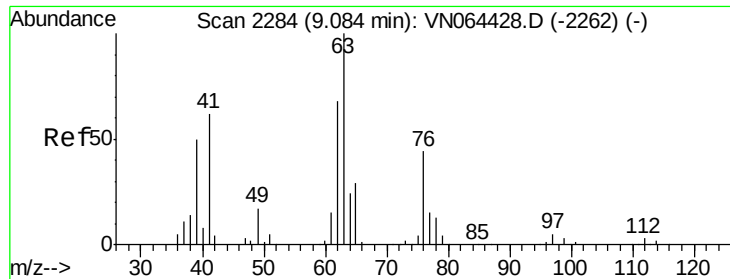


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

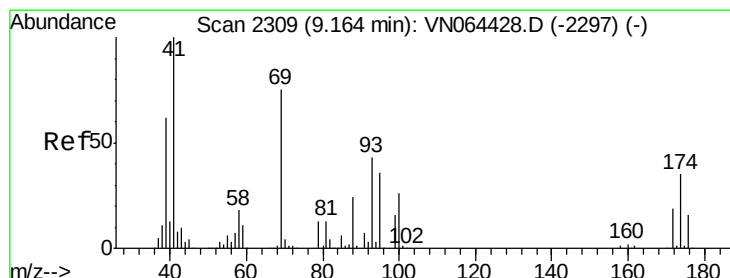
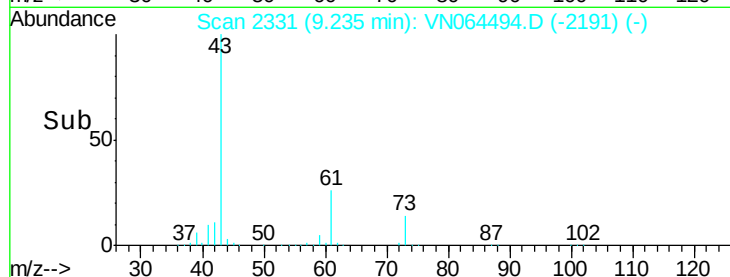
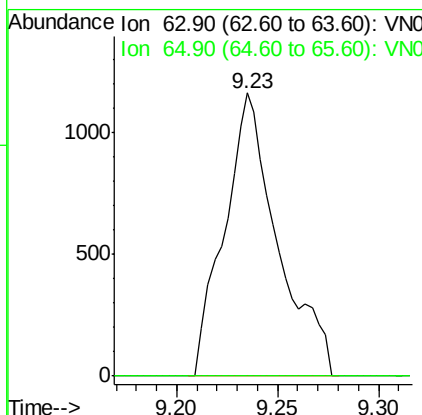
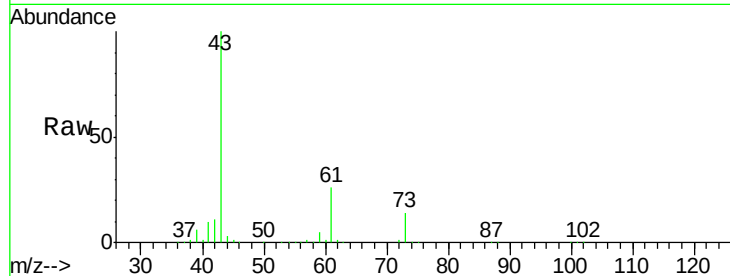




#45
 1,2-Dichloropropane
 Concen: 0.493 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

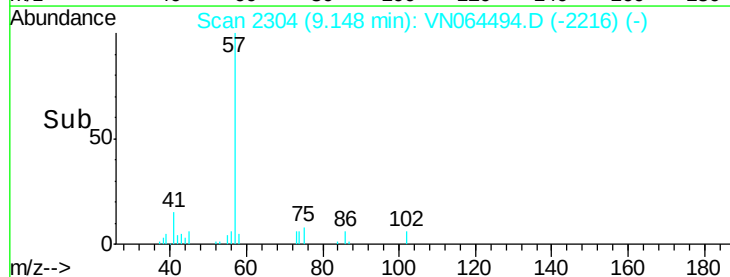
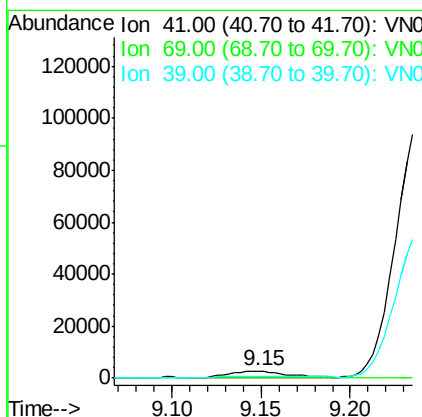
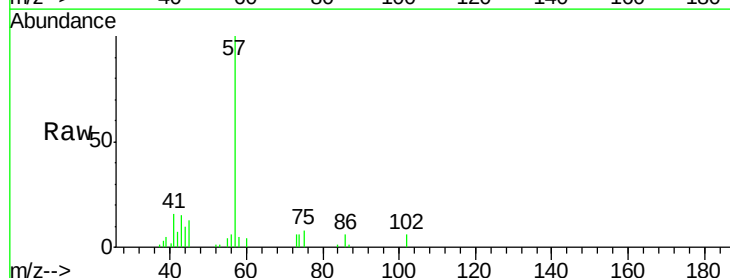
Instrument :
 MSVOA_N
 ClientSampleId :
 SR-L14-L13-SOUTH

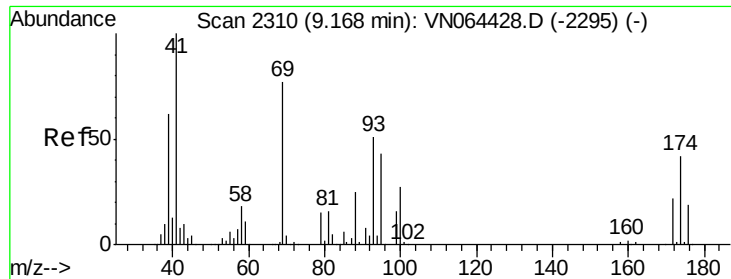
Tot Ion: 63 Resp: 2136
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.6 35.4#



#48
 Methyl methacrylate
 Concen: 1.222 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Tgt Ion: 41 Resp: 5524
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.4 90.6#
 39 0.0 51.2 76.8#

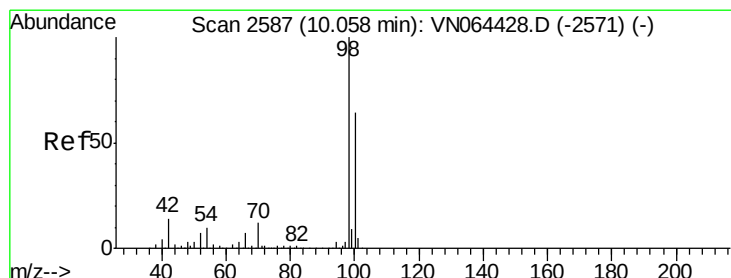
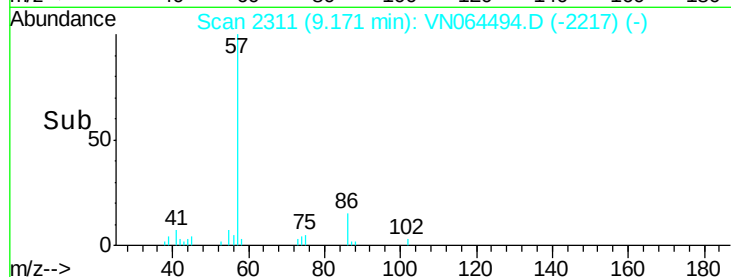
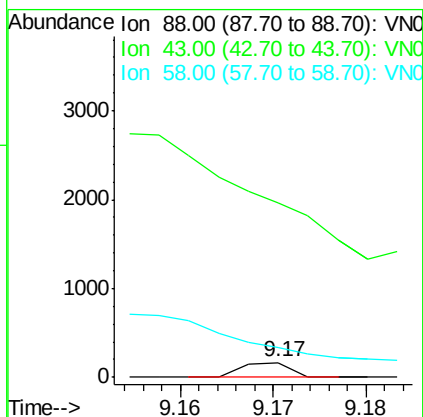
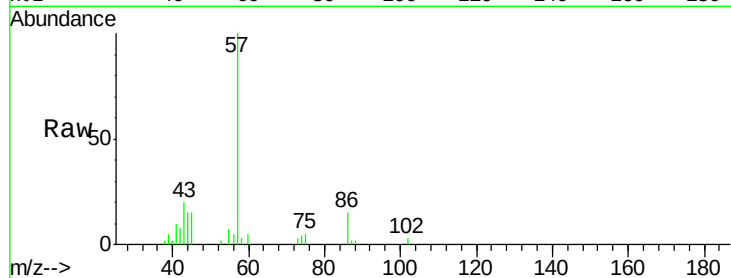




#49
1,4-Dioxane
Concen: 1.042 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

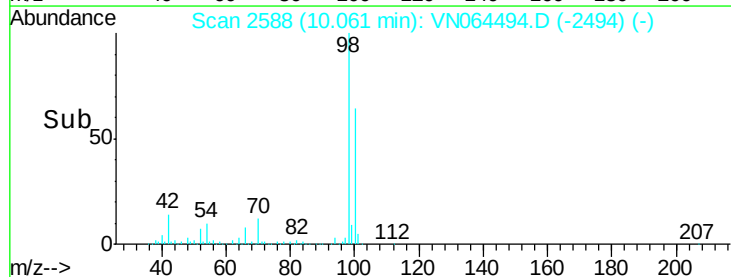
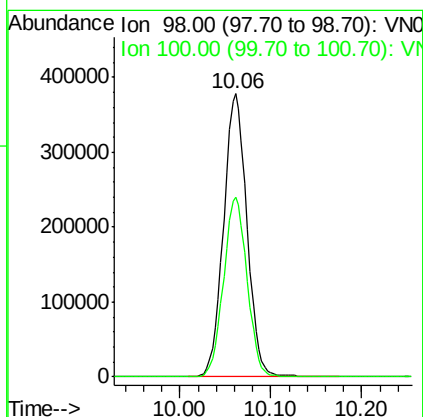
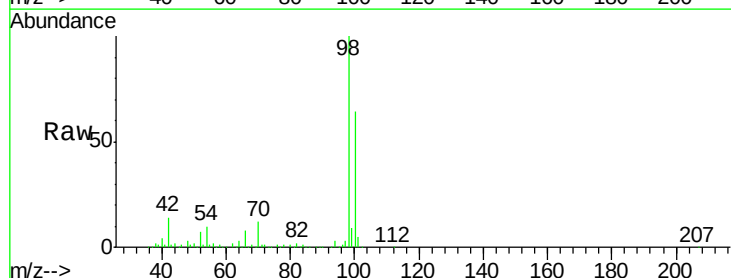
Instrument :
MSVOA_N
ClientSampleId :
SR-L14-L13-SOUTH

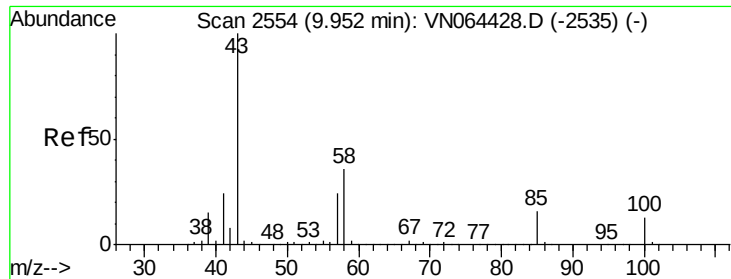
Tot Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 31.0 46.6#
58 0.0 58.4 87.6#



#50
Toluene-d8
Concen: 49.039 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Tgt Ion: 98 Resp: 675117
Ion Ratio Lower Upper
98 100
100 63.9 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.981 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

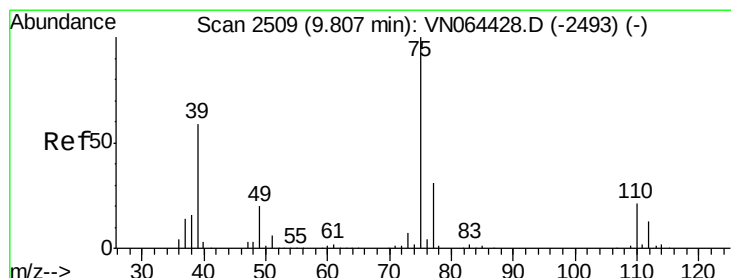
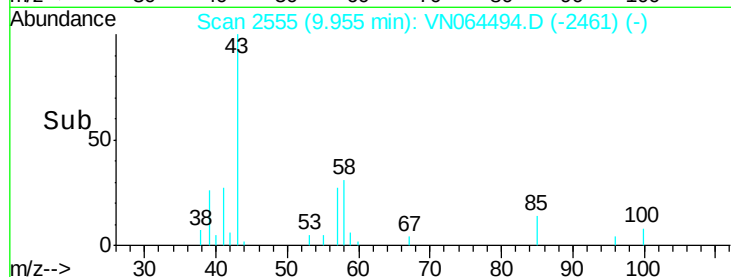
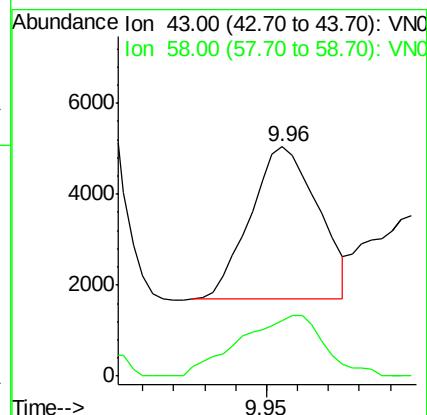
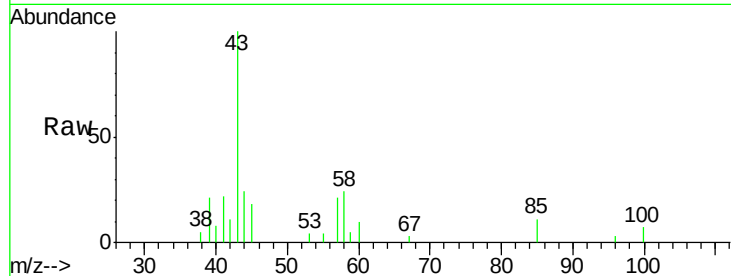
SR-L14-L13-SOUTH

Tot Ion: 43 Resp: 5122

Ion Ratio Lower Upper

43 100

58 49.3 28.4 42.6#



#54

cis-1,3-Dichloropropene

Concen: 5.252 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

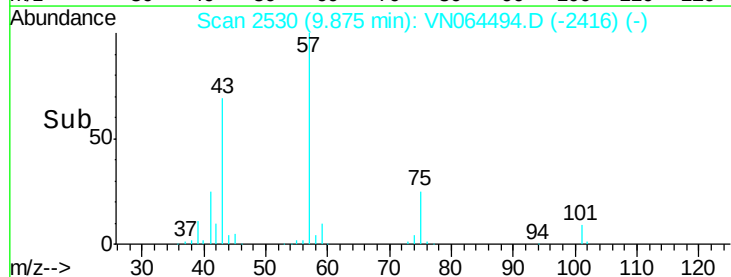
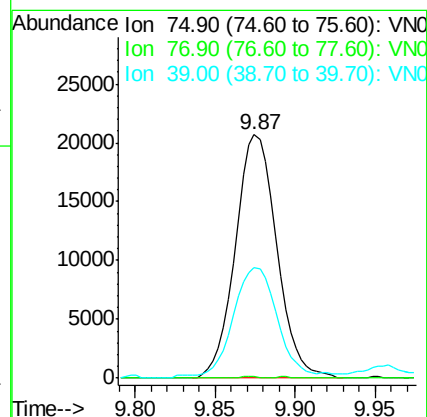
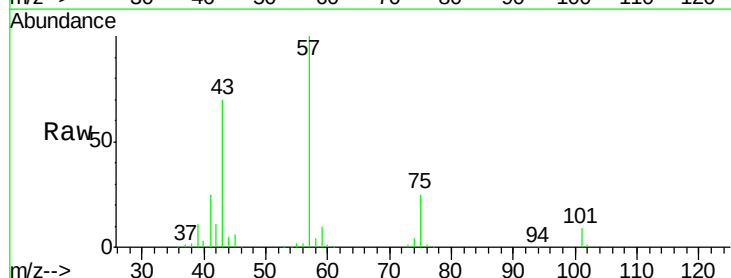
Tgt Ion: 75 Resp: 36512

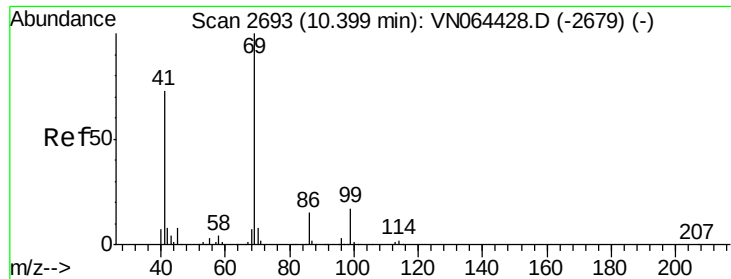
Ion Ratio Lower Upper

75 100

77 0.8 24.9 37.3#

39 44.2 47.1 70.7#





#56

Ethyl methacrylate

Concen: 2.318 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

SR-L14-L13-SOUTH

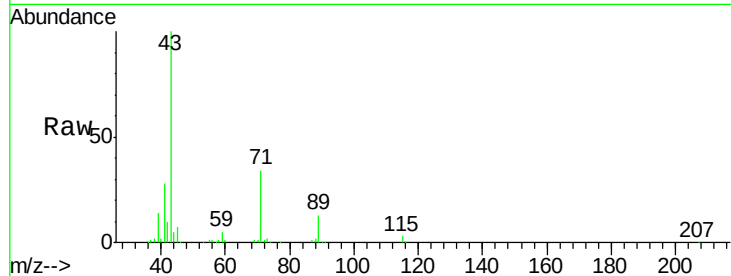
Tot Ion: 69 Resp: 3149

Ion Ratio Lower Upper

69 100

41 3193.4 59.3 88.9#

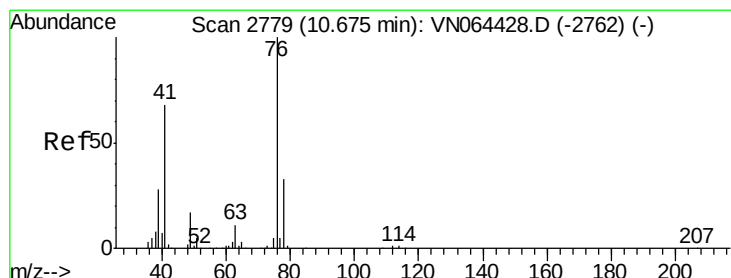
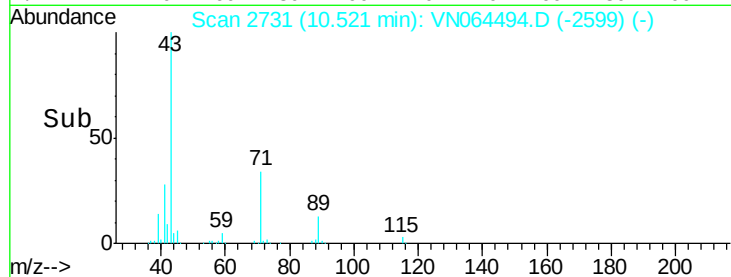
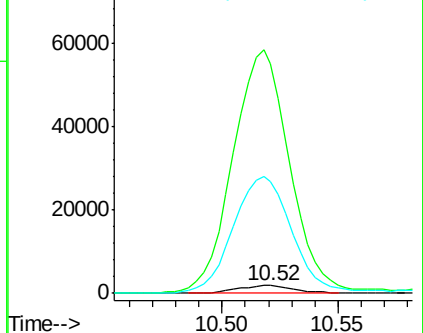
39 1576.7 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064428.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064428.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064428.D (-2679) (-)



#57

1,3-Dichloropropane

Concen: 1.010 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064494.D

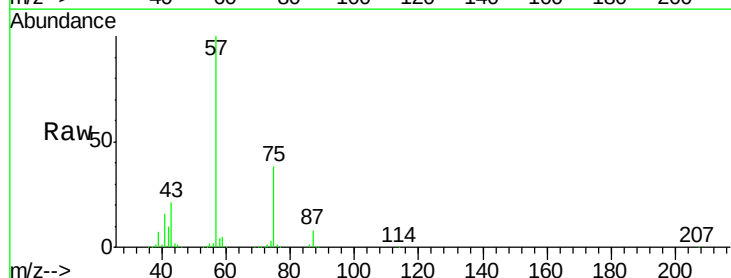
Acq: 6 Nov 2020 19:40

Tgt Ion: 76 Resp: 6812

Ion Ratio Lower Upper

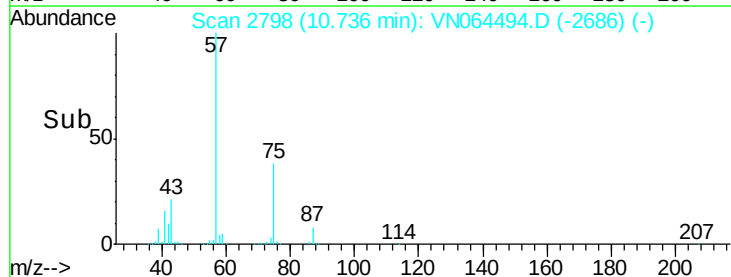
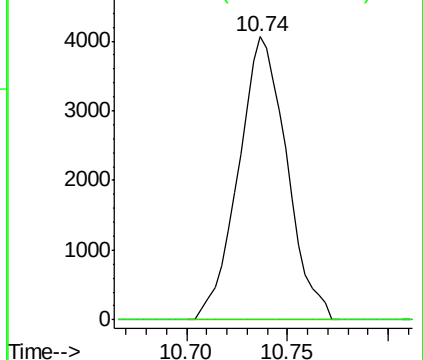
76 100

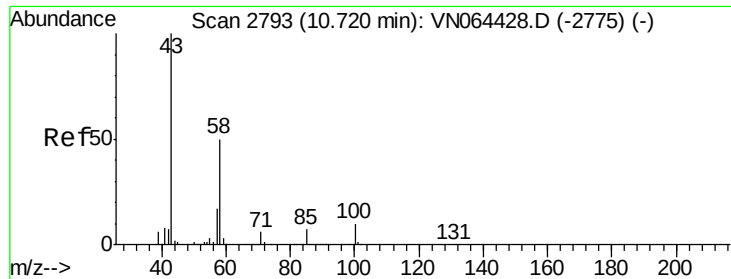
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN064428.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN064428.D (-2762) (-)

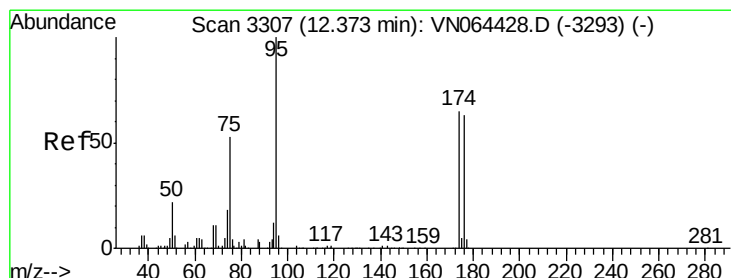
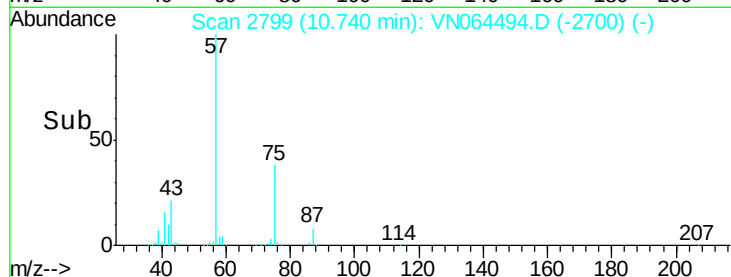
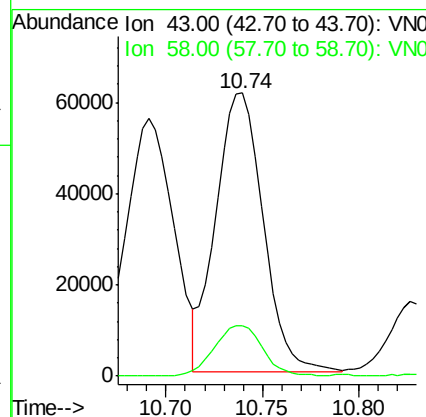
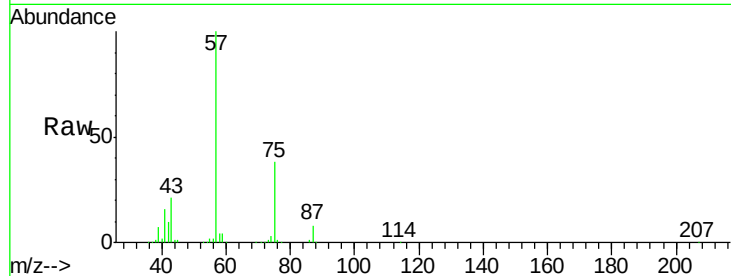




#59
2-Hexanone
Concen: 28.237 ug/l
RT: 10.74 min Scan# 2799
Delta R.T. 0.02 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

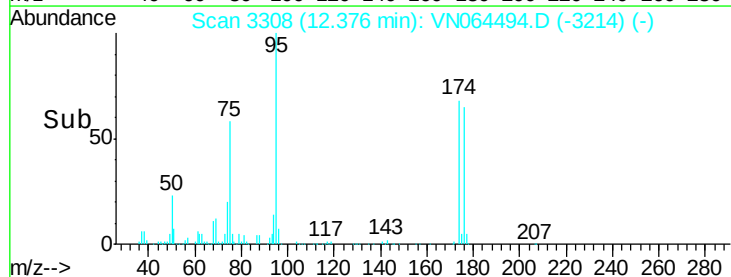
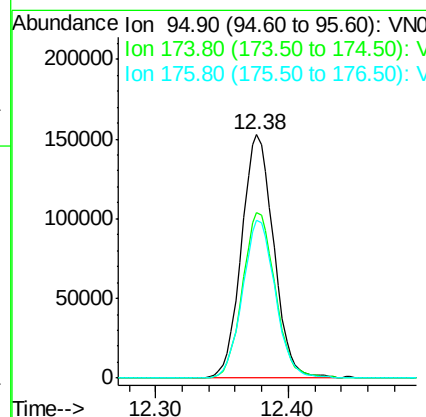
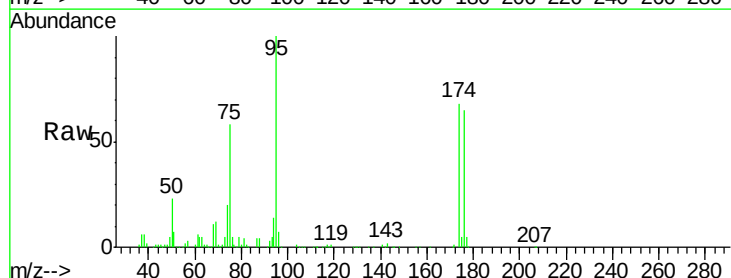
Instrument :
MSVOA_N
ClientSampleId :
SR-L14-L13-SOUTH

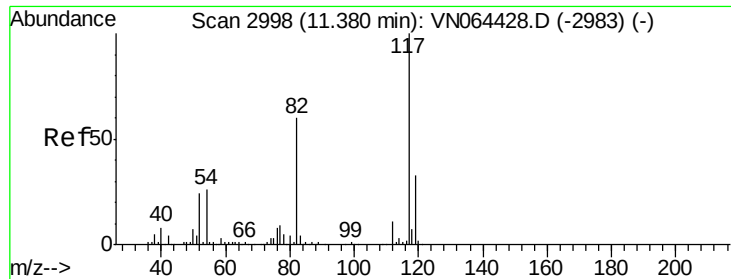
Tot Ion: 43 Resp: 104799
Ion Ratio Lower Upper
43 100
58 18.5 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.469 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064494.D
Acq: 6 Nov 2020 19:40

Tgt Ion: 95 Resp: 257559
Ion Ratio Lower Upper
95 100
174 69.2 0.0 132.6
176 65.9 0.0 129.2

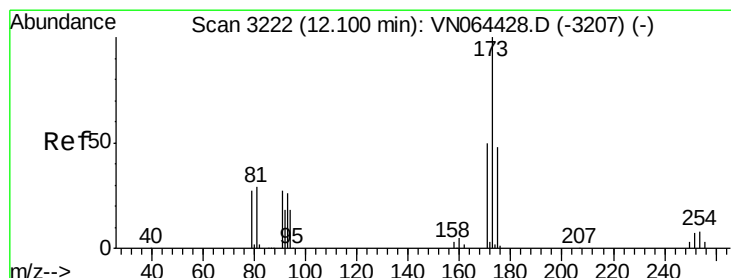
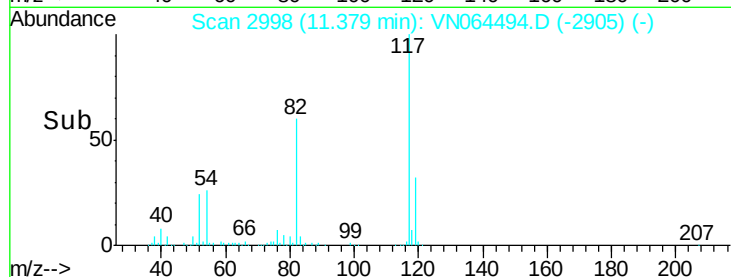
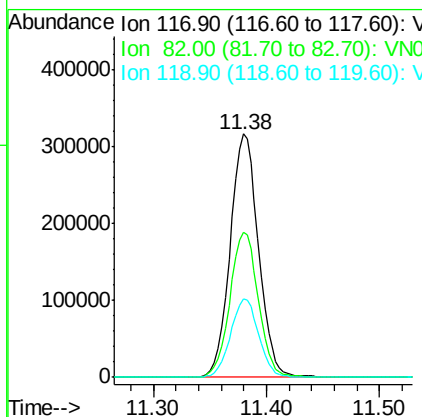
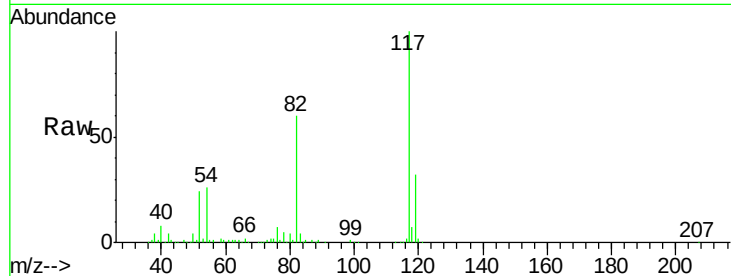




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2998
 Delta R.T. -0.00 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

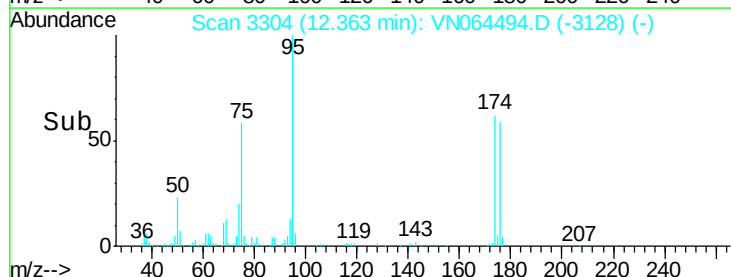
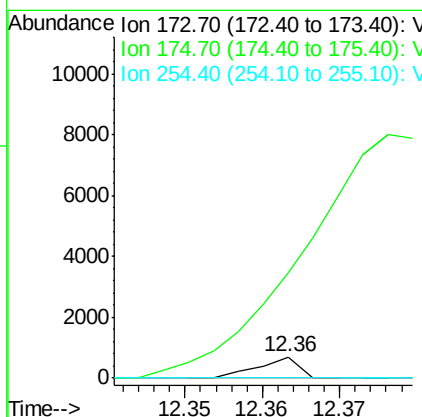
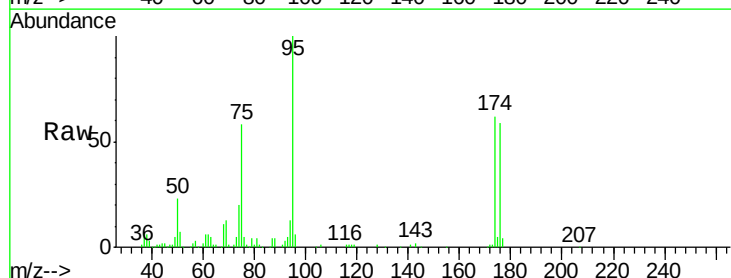
Instrument :
 MSVOA_N
 ClientSampleId :
 SR-L14-L13-SOUTH

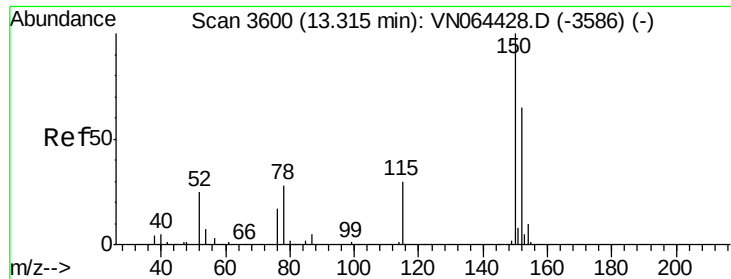
Tot Ion:117 Resp: 551534
 Ion Ratio Lower Upper
 117 100
 82 59.6 48.1 72.1
 119 32.0 26.2 39.4



#71
 Bromoform
 Concen: 1.350 ug/l
 RT: 12.36 min Scan# 3304
 Delta R.T. 0.26 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Tgt Ion:173 Resp: 259
 Ion Ratio Lower Upper
 173 100
 175 4207.3 23.7 71.1#
 254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Instrument :

MSVOA_N

ClientSampleId :

SR-L14-L13-SOUTH

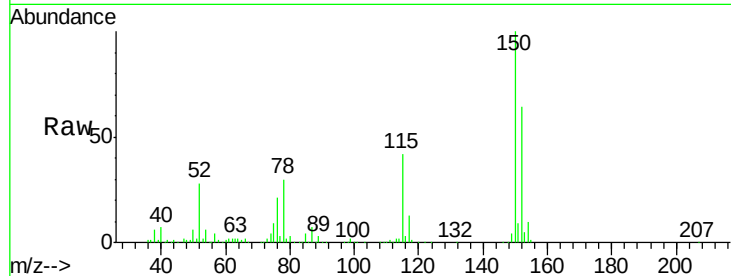
Tot Ion:152 Resp: 206689

Ion Ratio Lower Upper

152 100

115 64.0 32.0 96.0

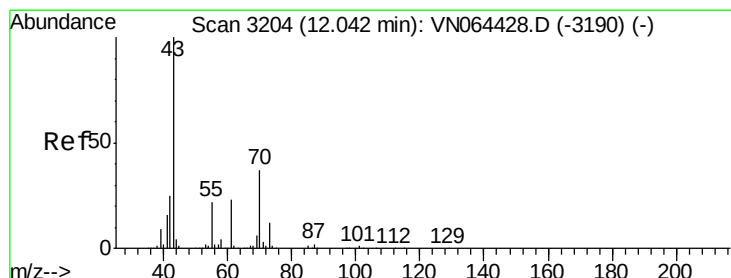
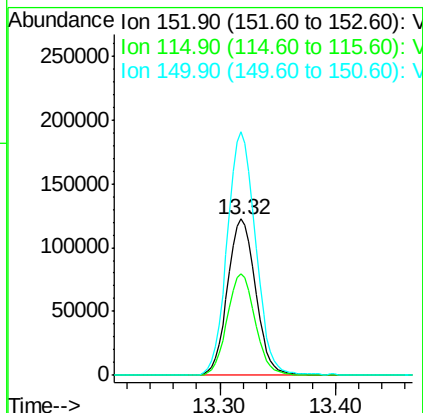
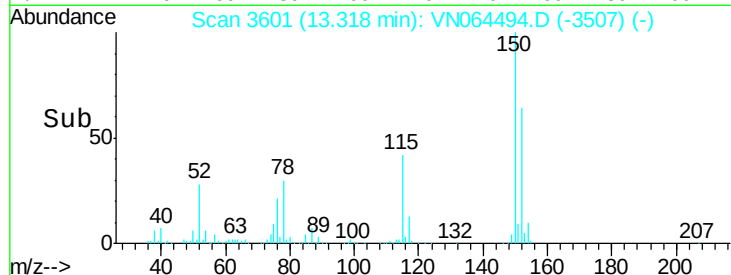
150 156.6 0.0 353.8



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-amil acetate

Concen: 1.558 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064494.D

Acq: 6 Nov 2020 19:40

Tgt Ion: 43 Resp: 2809

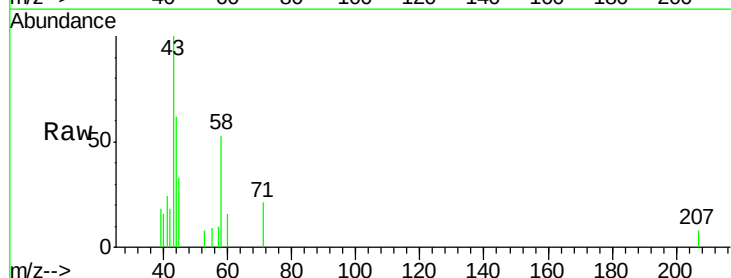
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 9.2 18.4 27.6#

61 0.0 17.8 26.6#

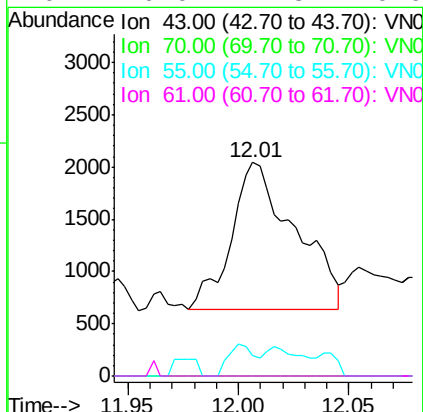
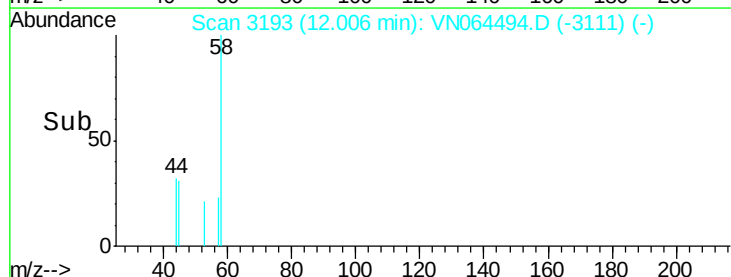


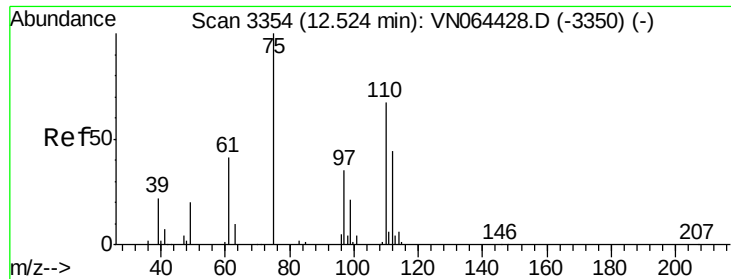
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

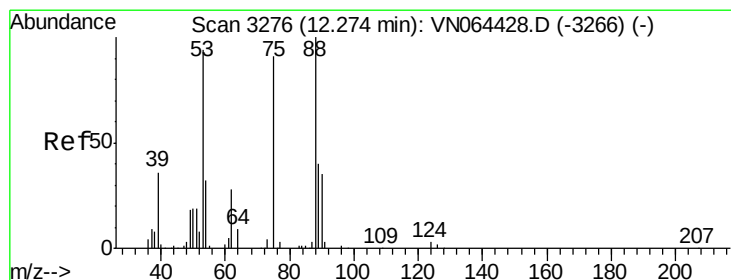
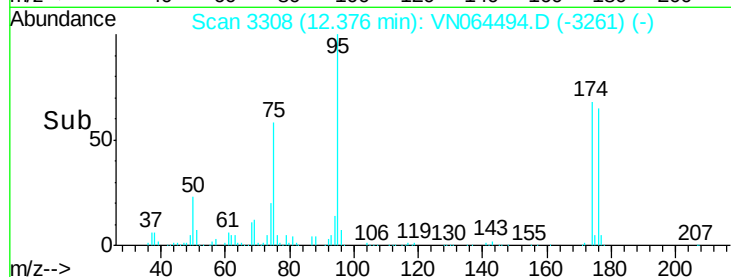
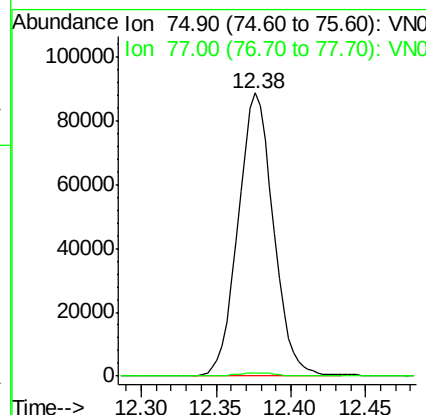
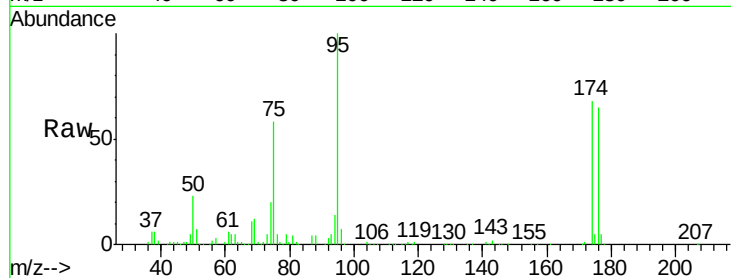




#76
 1,2,3-Trichloropropane
 Concen: 29.131 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Instrument :
 MSVOA_N
 ClientSampleId :
 SR-L14-L13-SOUTH

Tot Ion: 75 Resp: 145885
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.337 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064494.D
 Acq: 6 Nov 2020 19:40

Tgt Ion: 75 Resp: 145885
 Ion Ratio Lower Upper
 75 100
 53 0.2 84.0 126.0#
 89 0.0 36.3 54.5#

