

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100820\
 Data File : VN064025.D
 Acq On : 9 Oct 2020 6:52
 Operator : JC/MD
 Sample : L4292-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B13-100620-DP

Quant Time: Oct 09 12:07:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	234515	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	449016	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	470047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181942	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	200568	51.77	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.54%		
35) Dibromofluoromethane	7.55	113	149482	47.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.96%		
50) Toluene-d8	10.06	98	585096	49.54	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.08%		
62) 4-Bromofluorobenzene	12.38	95	215734	48.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.18%		

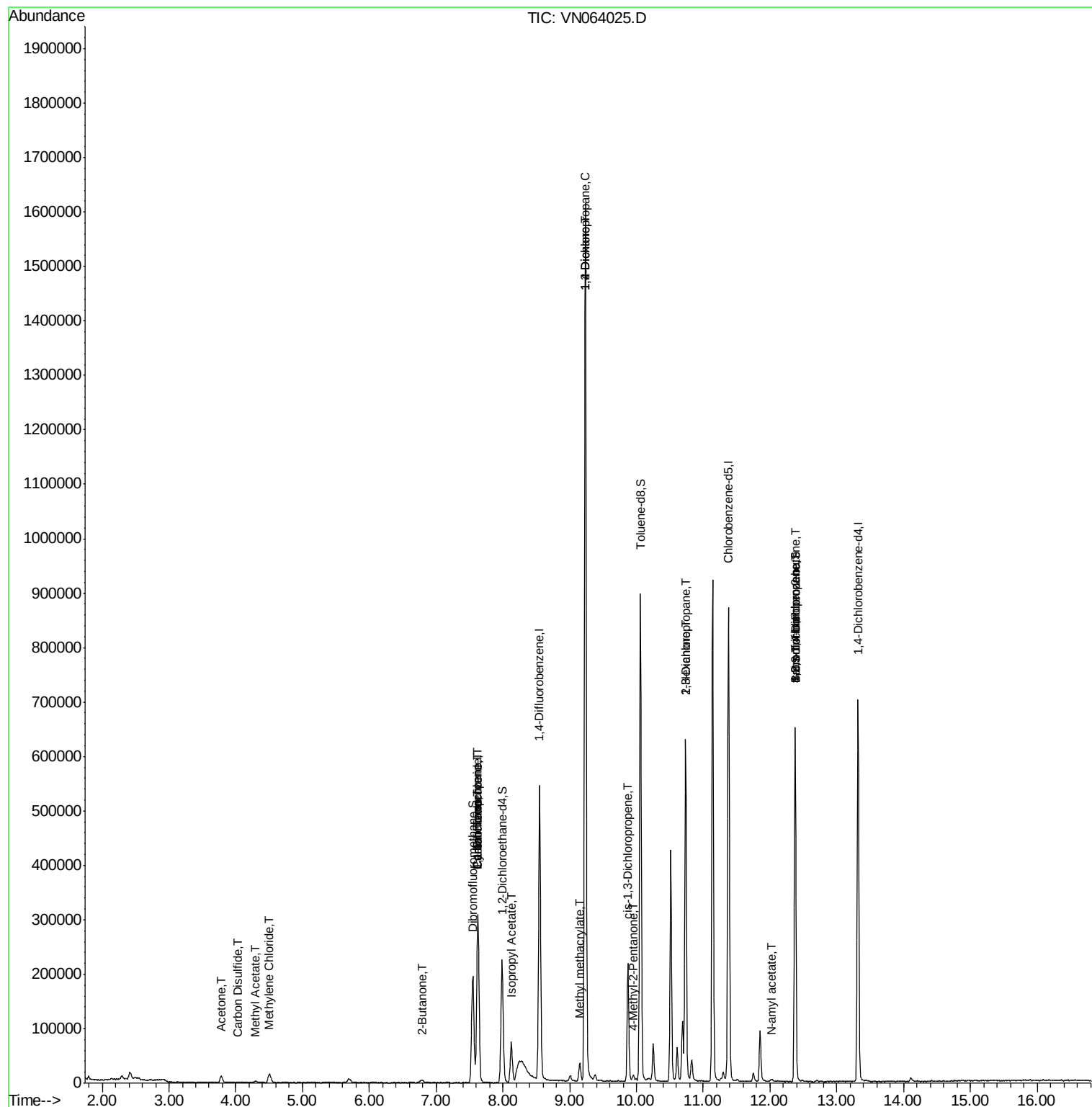
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	20757	17.404	ug/l	98
17) Carbon Disulfide	4.01	76	645	0.800	ug/l #	76
18) Methyl Acetate	4.28	43	1232	0.398	ug/l #	66
20) Methylene Chloride	4.51	84	11574	4.327	ug/l	96
25) 2-Butanone	6.79	43	1858	1.099	ug/l #	87
31) Cyclohexane	7.63	56	5994	1.333	ug/l #	2
36) 1,1-Dichloropropene	7.63	75	20779	4.568	ug/l #	52
38) Carbon Tetrachloride	7.63	117	25267	4.953	ug/l #	15
43) Isopropyl Acetate	8.13	43	87168	11.693	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1822	0.519	ug/l #	44
48) Methyl methacrylate	9.14	41	5846	1.587	ug/l #	12
49) 1,4-Dioxane	9.24	88	195	3.725	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8097	1.851	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	34703	6.205	ug/l #	65
57) 1,3-Dichloropropane	10.74	76	5900	1.082	ug/l #	43
59) 2-Hexanone	10.74	43	101703	31.295	ug/l #	54
71) Bromoform	12.38	173	825	0.292	ug/l #	1
74) N-amyl acetate	12.02	43	3943	2.827	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	119643	29.831	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119643	85.917	ug/l #	6

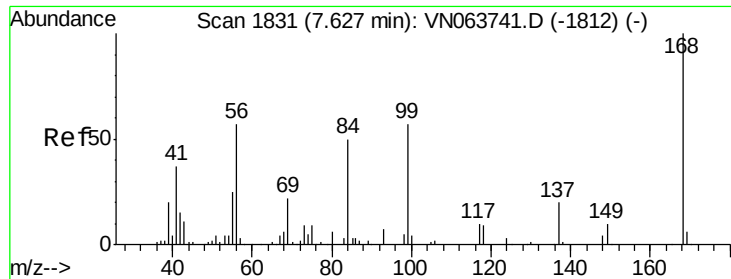
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

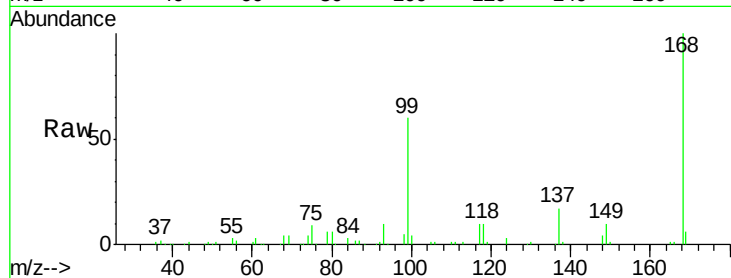
PAV-B13-100620-DP

Tgt Ion:168 Resp: 234515

Ion Ratio Lower Upper

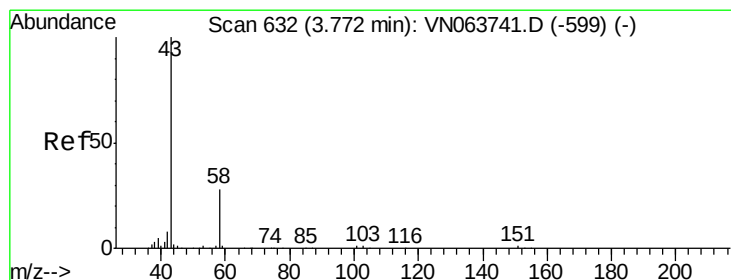
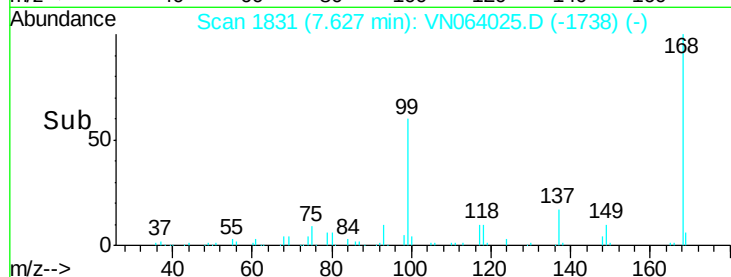
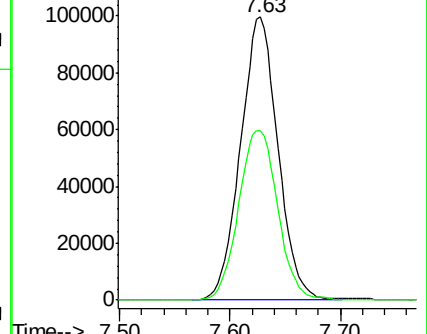
168 100

99 60.0 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 17.404 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064025.D

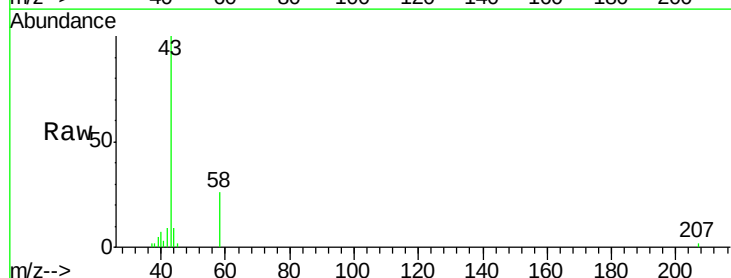
Acq: 9 Oct 2020 6:52

Tgt Ion: 43 Resp: 20757

Ion Ratio Lower Upper

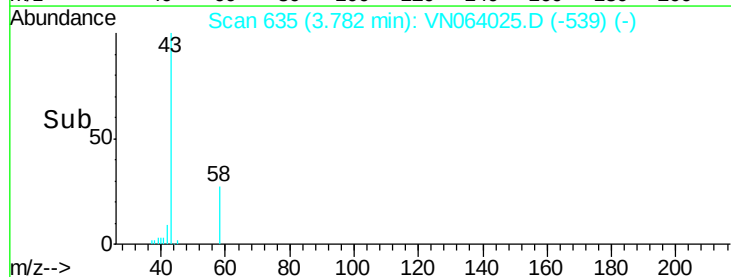
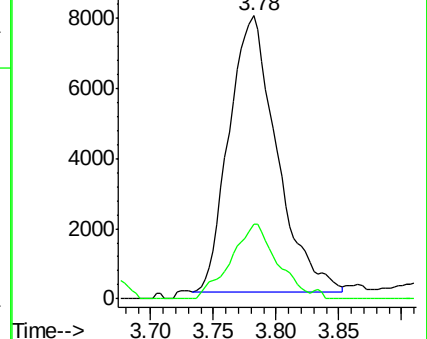
43 100

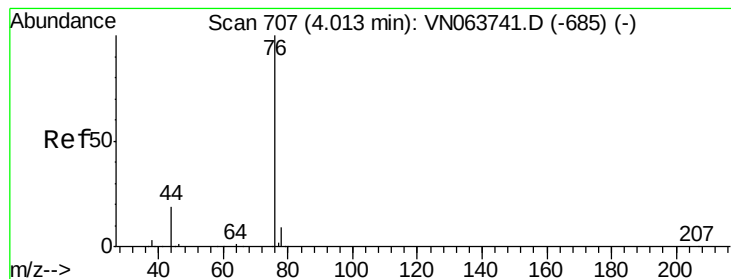
58 26.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.800 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

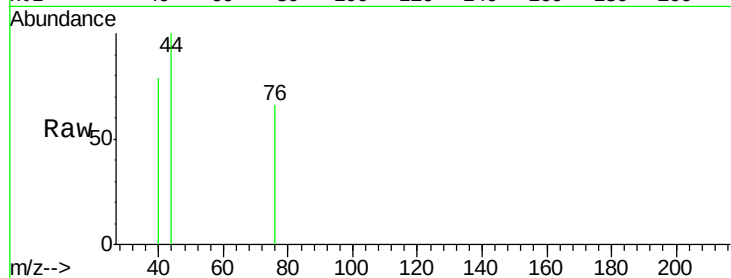
PAV-B13-100620-DP

Tgt Ion: 76 Resp: 645

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

300

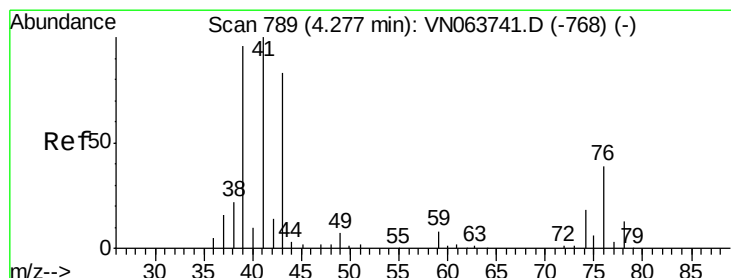
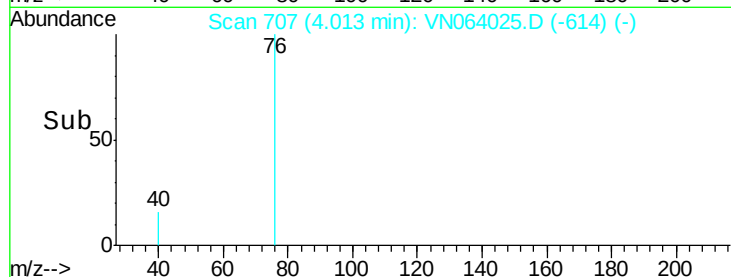
200

100

0

3.98 4.00 4.02 4.04

Time-->



#18

Methyl Acetate

Concen: 0.398 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN064025.D

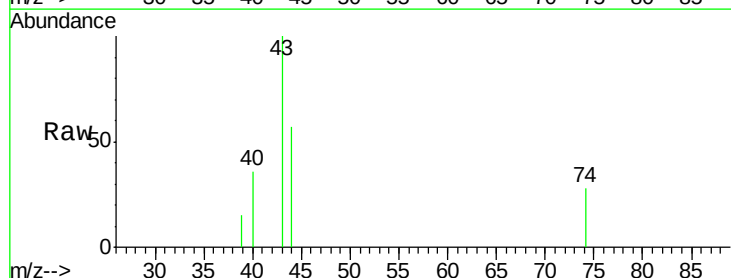
Acq: 9 Oct 2020 6:52

Tgt Ion: 43 Resp: 1232

Ion Ratio Lower Upper

43 100

74 37.9 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1500

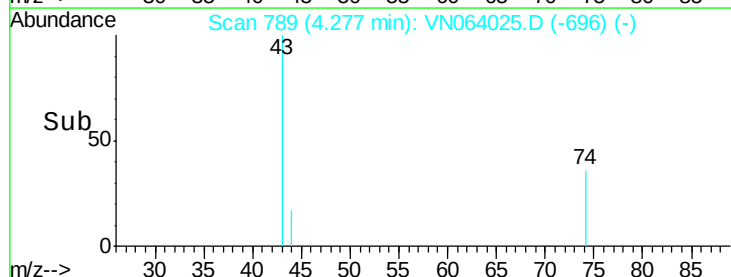
1000

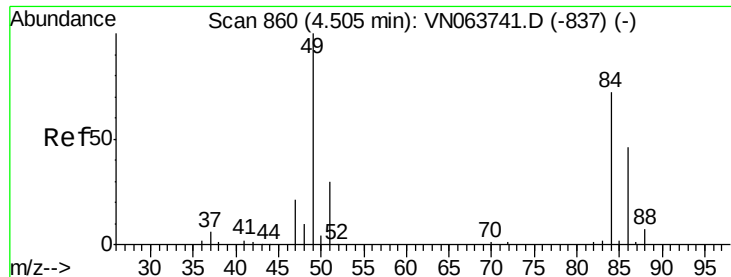
500

0

4.24 4.26 4.28

Time-->

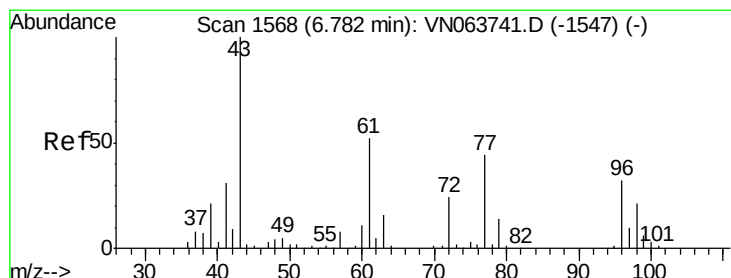
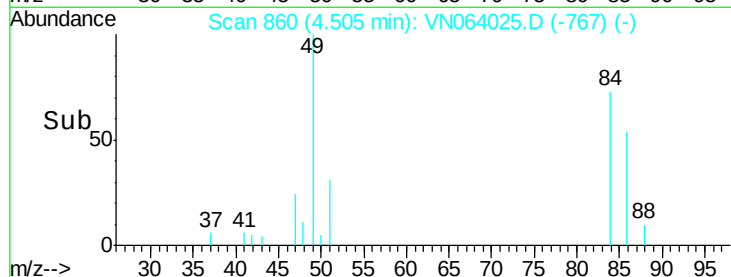
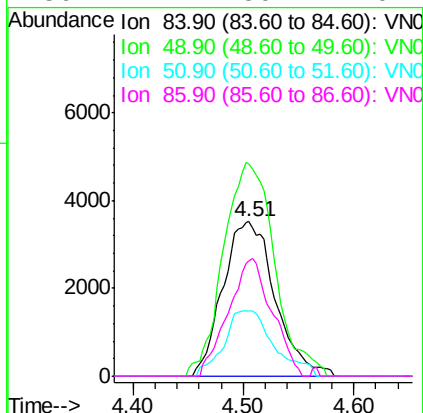
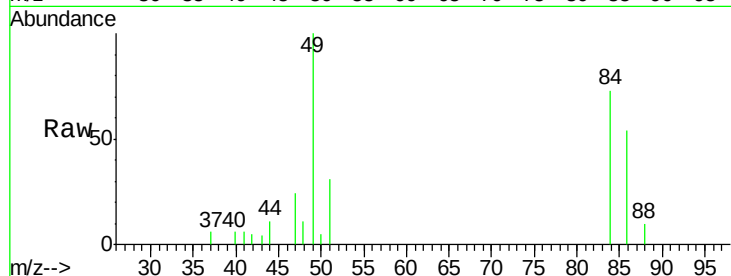




#20
Methylene Chloride
Concen: 4.327 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

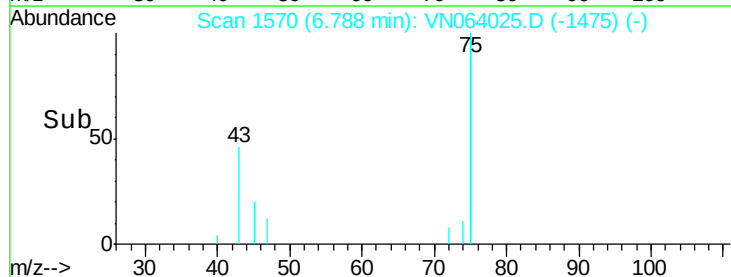
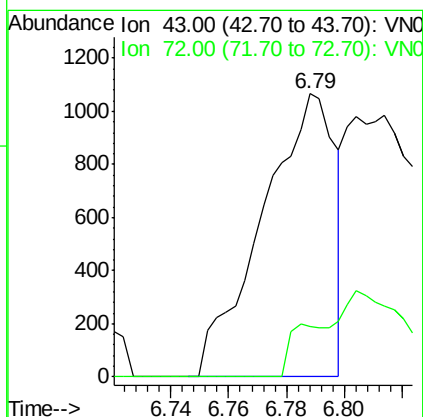
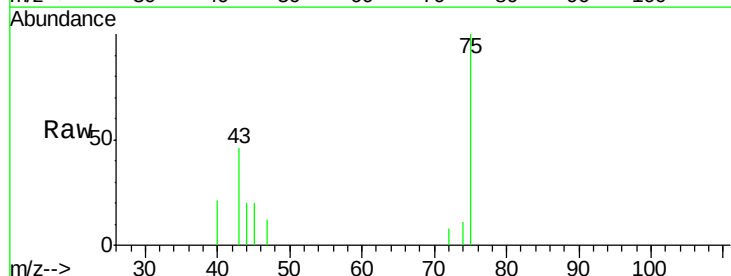
Instrument :
MSVOA_N
ClientSampleId :
PAV-B13-100620-DP

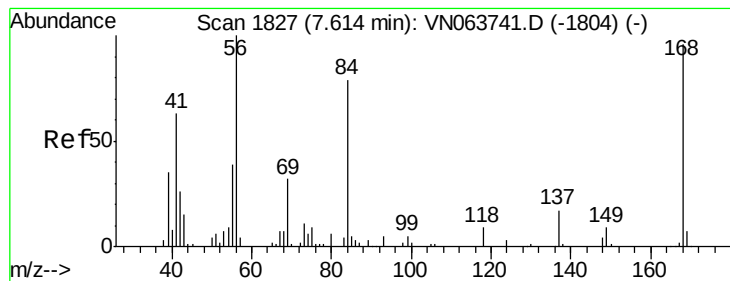
Tgt Ion: 84 Resp: 11574
Ion Ratio Lower Upper
84 100
49 137.8 110.4 165.6
51 42.1 33.3 49.9
86 74.4 50.7 76.1



#25
2-Butanone
Concen: 1.099 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

Tgt Ion: 43 Resp: 1858
Ion Ratio Lower Upper
43 100
72 17.9 19.3 28.9#





#31

Cyclohexane

Concen: 1.333 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B13-100620-DP

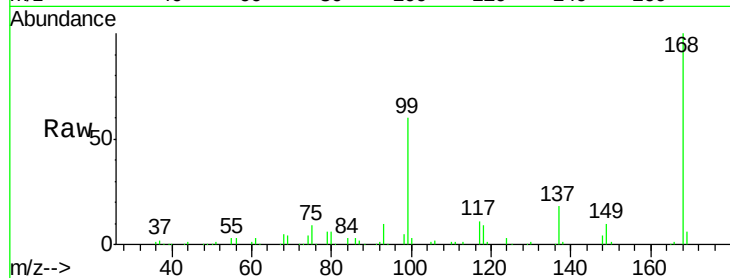
Tgt Ion: 56 Resp: 5994

Ion Ratio Lower Upper

56 100

69 148.1 25.4 38.2#

84 126.4 63.3 94.9#

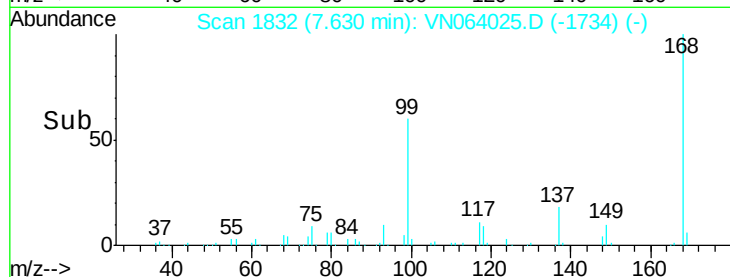


Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)

Time-->

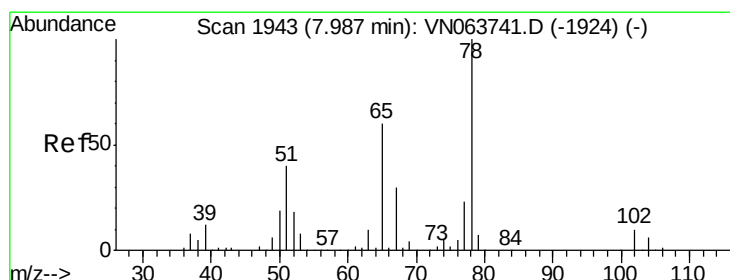


Abundance Ion 56.00 (55.70 to 56.70): VN064025.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN064025.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN064025.D (-1734) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.768 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064025.D

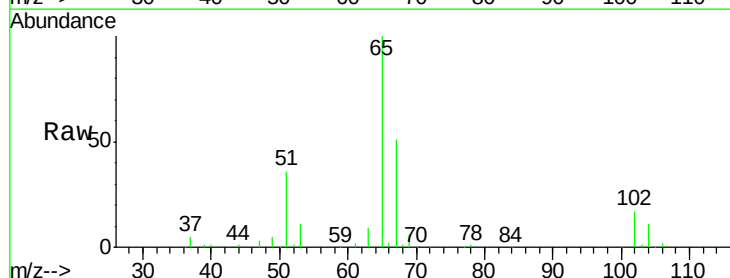
Acq: 9 Oct 2020 6:52

Tgt Ion: 65 Resp: 200568

Ion Ratio Lower Upper

65 100

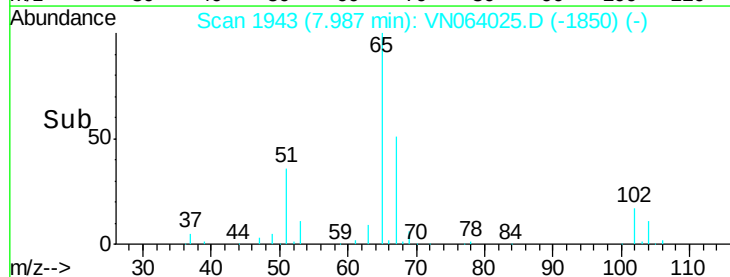
67 50.8 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)

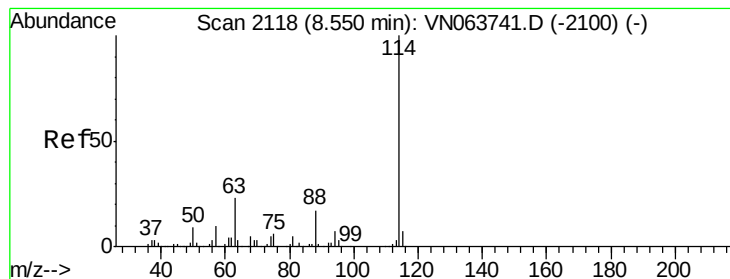
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN064025.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064025.D (-1850) (-)

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

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PAV-B13-100620-DP

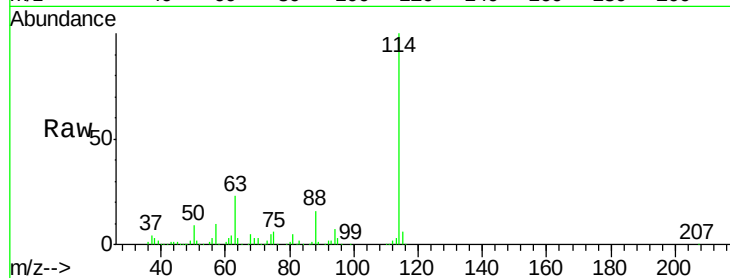
Tgt Ion:114 Resp: 449016

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.0

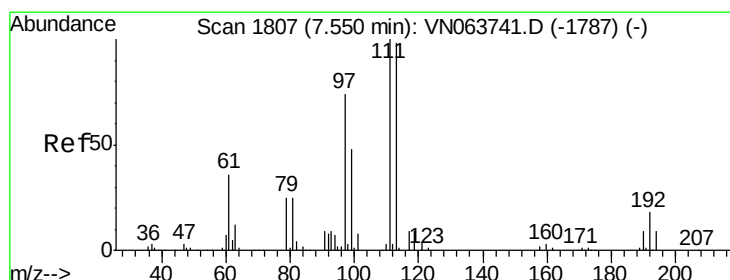
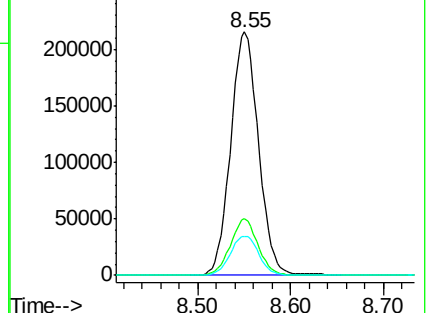
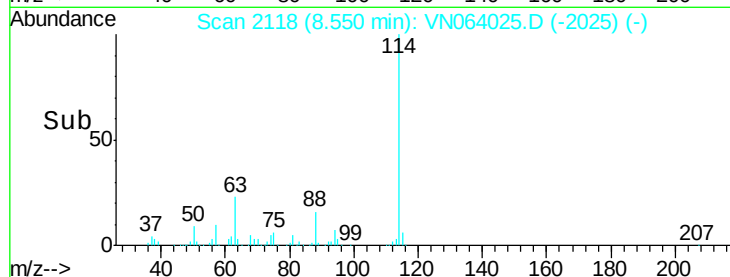
88 16.1 0.0 34.0



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: 47.978 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

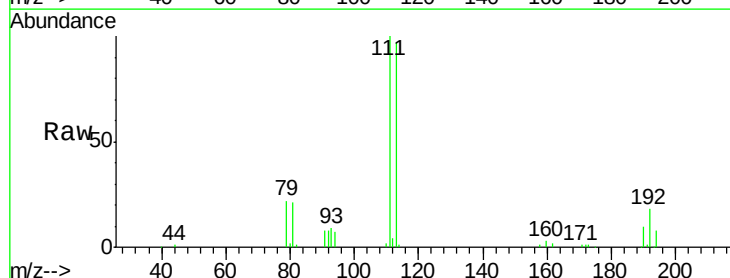
Tgt Ion:113 Resp: 149482

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

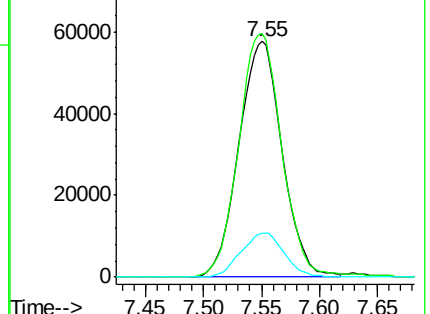
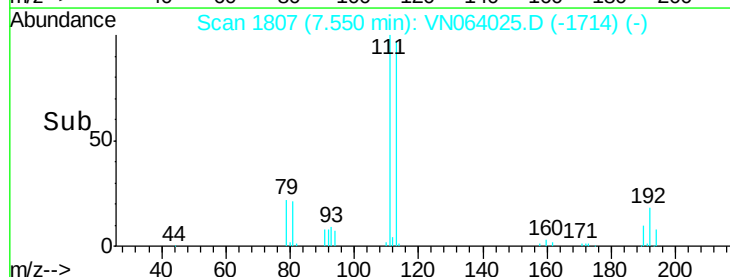
192 18.7 14.2 21.2

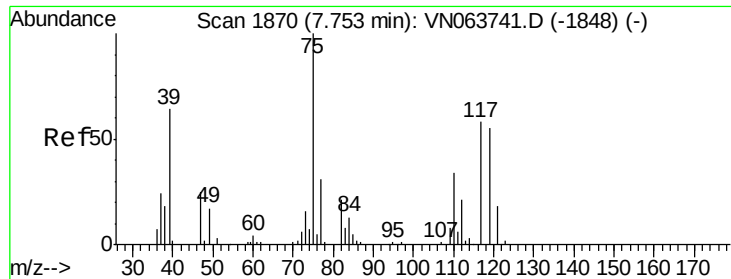


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

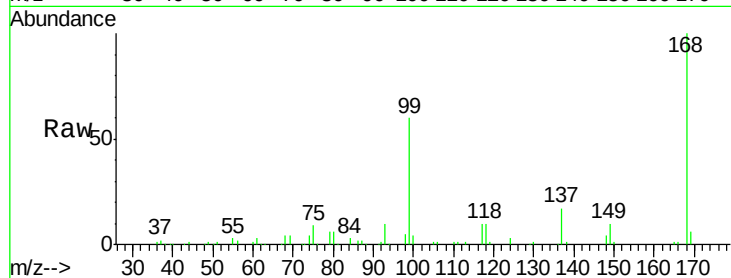




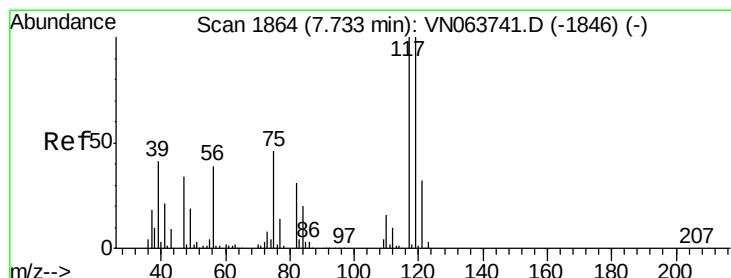
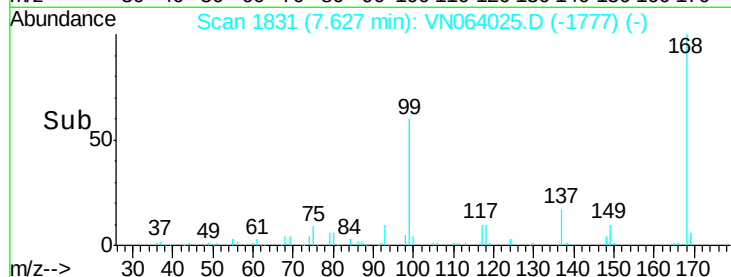
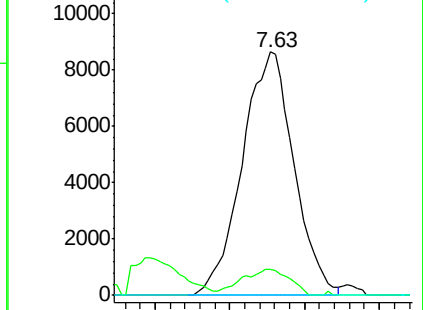
#36
 1,1-Dichloropropene
 Concen: 4.568 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064025.D
 Acq: 9 Oct 2020 6:52

Instrument :
 MSVOA_N
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 PAV-B13-100620-DP

Tgt Ion: 75 Resp: 20779
 Ion Ratio Lower Upper
 75 100
 110 9.9 16.9 50.6#
 77 0.0 24.5 36.7#

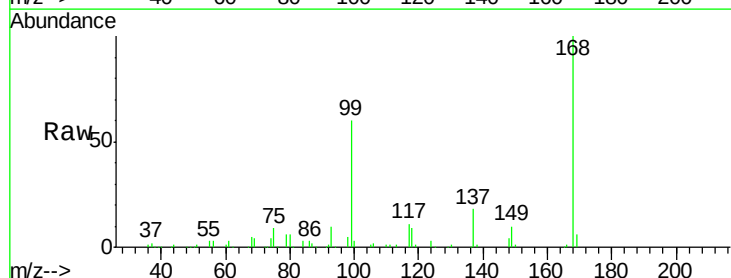


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

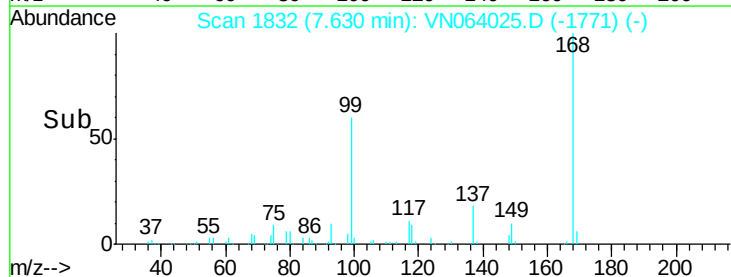
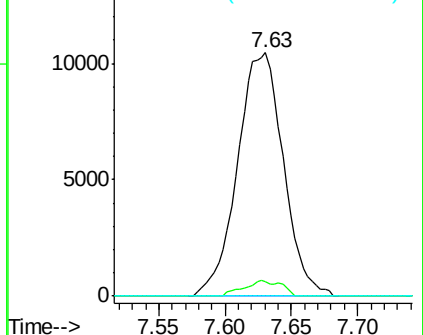


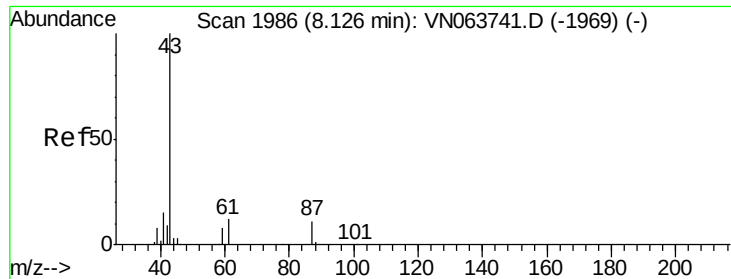
#38
 Carbon Tetrachloride
 Concen: 4.953 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.10 min
 Lab File: VN064025.D
 Acq: 9 Oct 2020 6:52

Tgt Ion: 117 Resp: 25267
 Ion Ratio Lower Upper
 117 100
 119 6.0 80.1 120.1#
 121 0.0 25.7 38.5#



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: 11.693 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B13-100620-DP

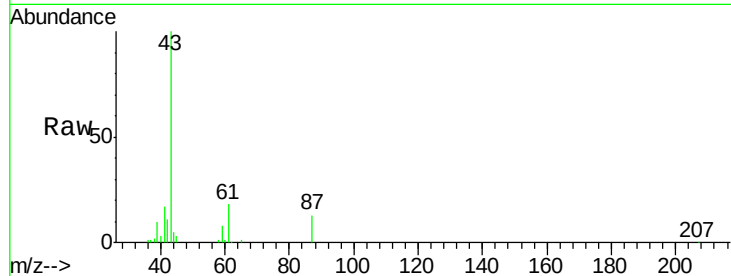
Tgt Ion: 43 Resp: 87168

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.4

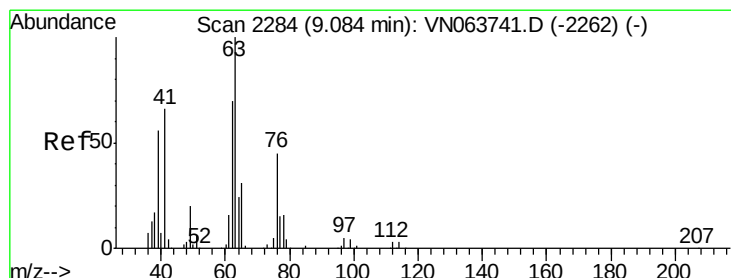
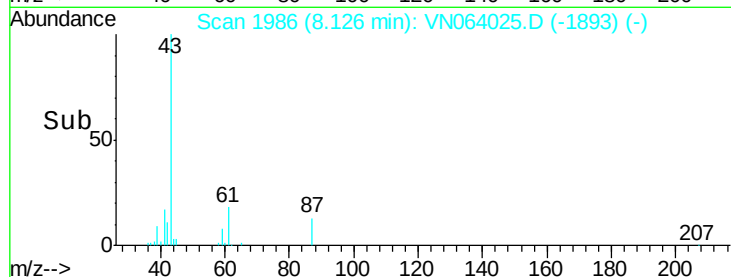
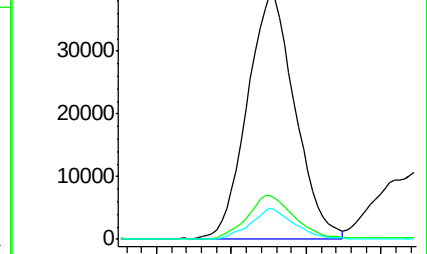
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063741.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063741.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.519 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN064025.D

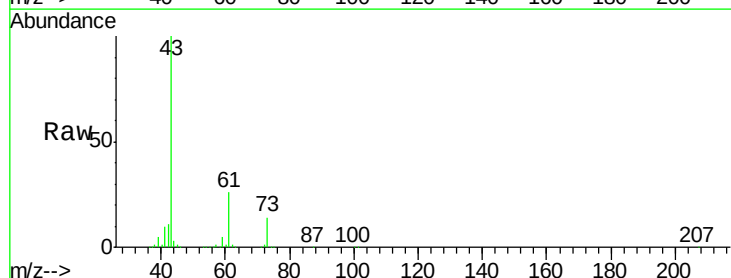
Acq: 9 Oct 2020 6:52

Tgt Ion: 63 Resp: 1822

Ion Ratio Lower Upper

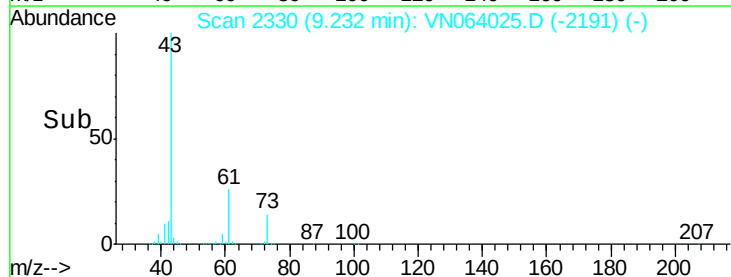
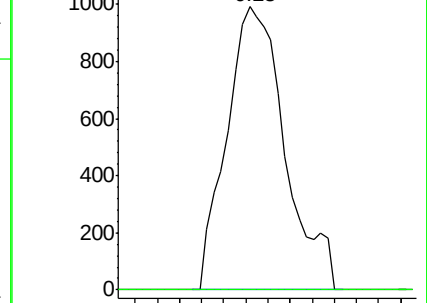
63 100

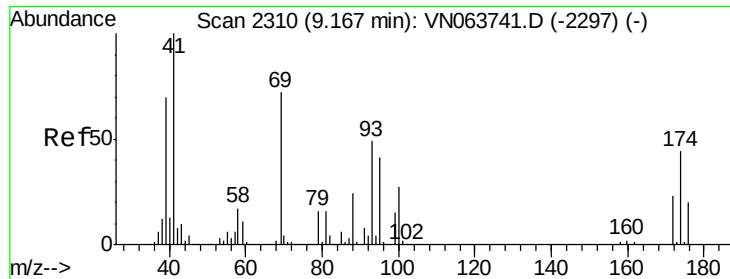
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063741.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN063741.D (-2262) (-)

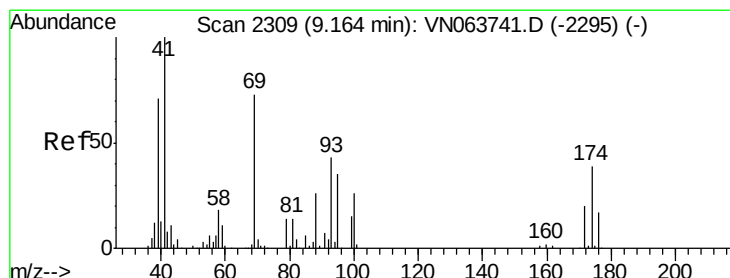
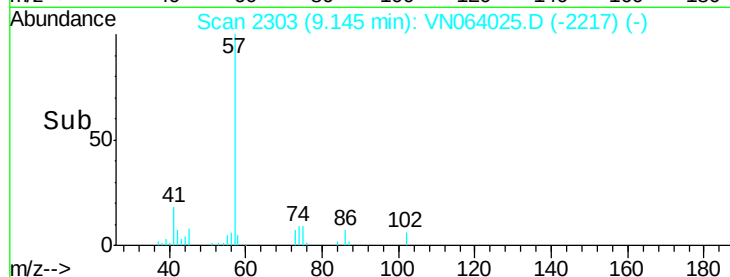
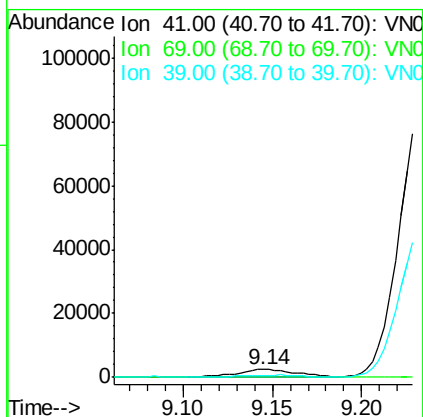
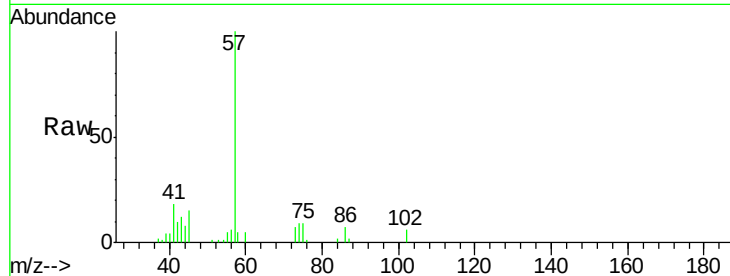




#48
Methyl methacrylate
Concen: 1.587 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

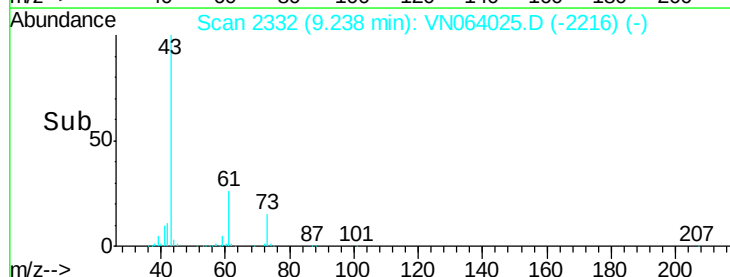
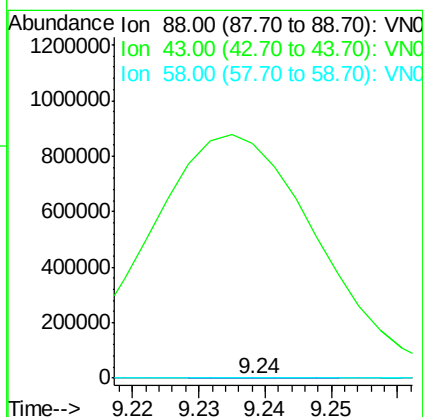
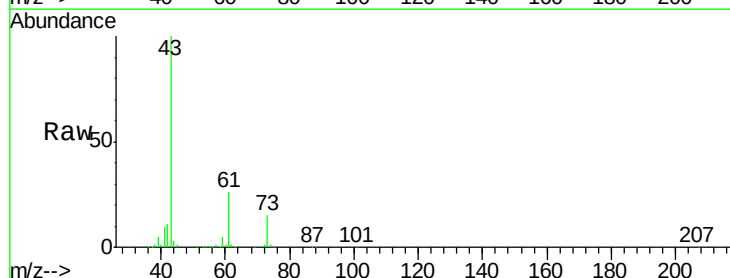
Instrument :
MSVOA_N
ClientSampleId :
PAV-B13-100620-DP

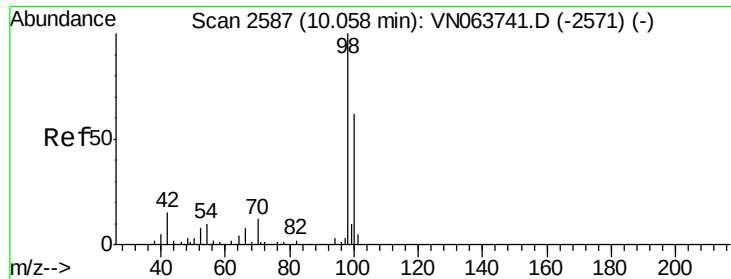
Tgt Ion: 41 Resp: 5846
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#49
1,4-Dioxane
Concen: 3.725 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

Tgt Ion: 88 Resp: 195
Ion Ratio Lower Upper
88 100
43 837680.5 33.1 49.7#
58 3817.4 58.9 88.3#





#50

Toluene-d8

Concen: 49.538 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

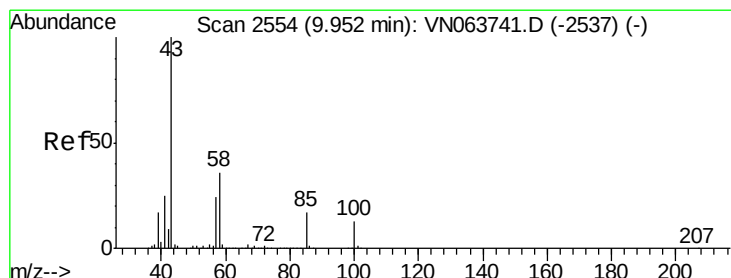
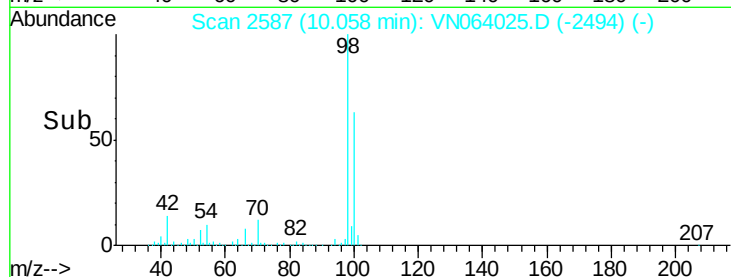
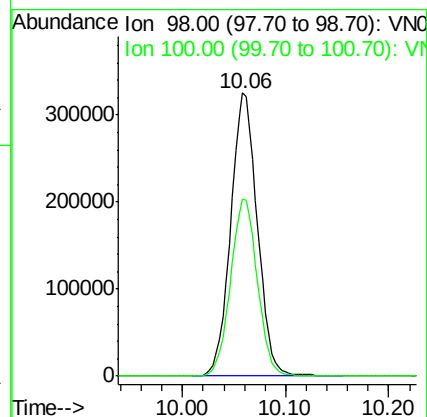
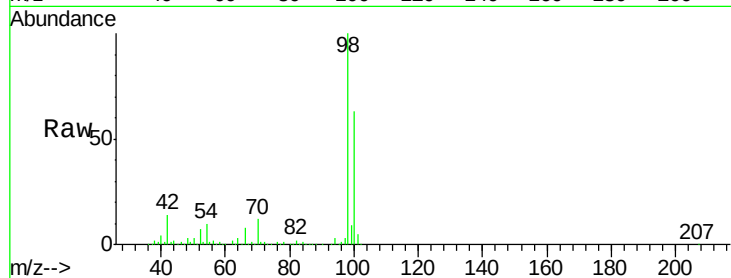
PAV-B13-100620-DP

Tgt Ion: 98 Resp: 585096

Ion Ratio Lower Upper

98 100

100 63.1 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.851 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064025.D

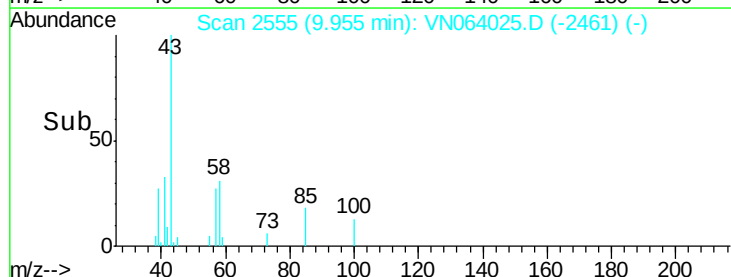
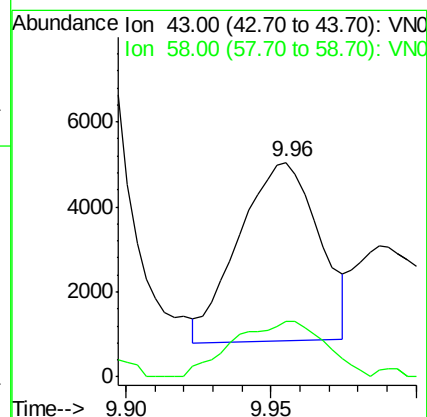
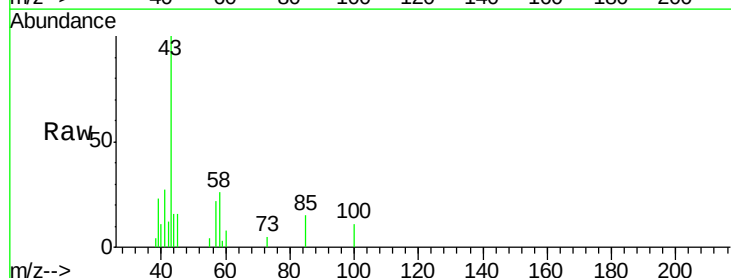
Acq: 9 Oct 2020 6:52

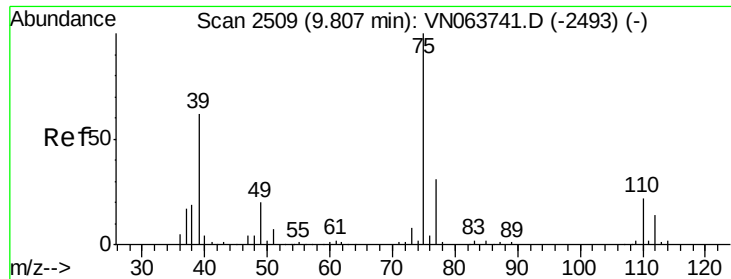
Tgt Ion: 43 Resp: 8097

Ion Ratio Lower Upper

43 100

58 35.4 28.4 42.6



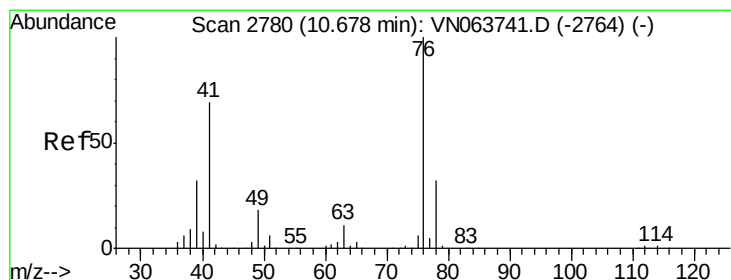
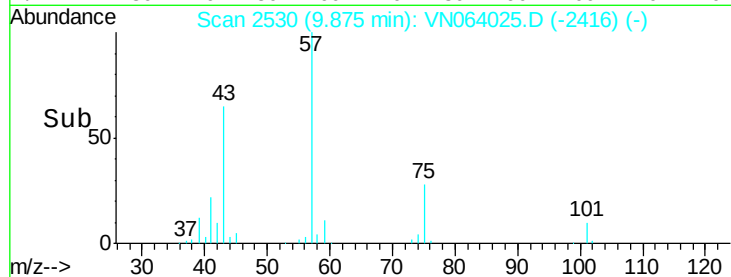
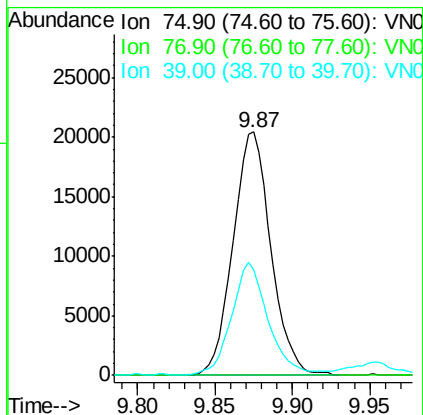
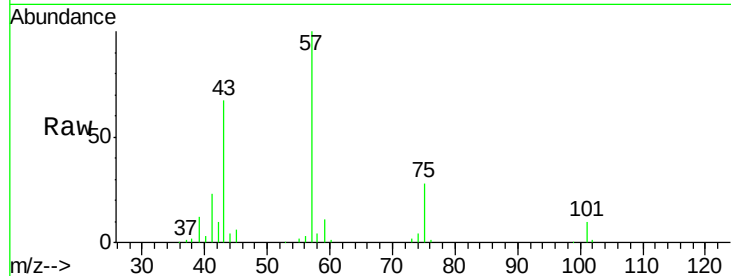


#54

cis-1,3-Dichloropropene
 Concen: 6.205 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064025.D
 Acq: 9 Oct 2020 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B13-100620-DP

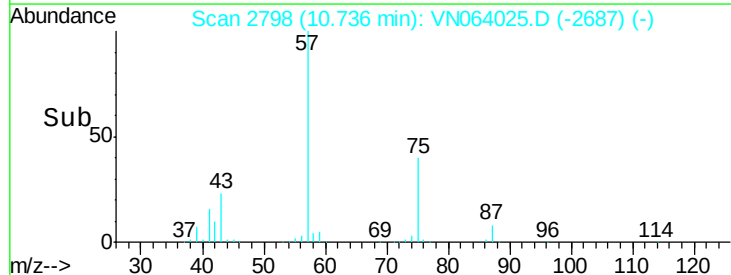
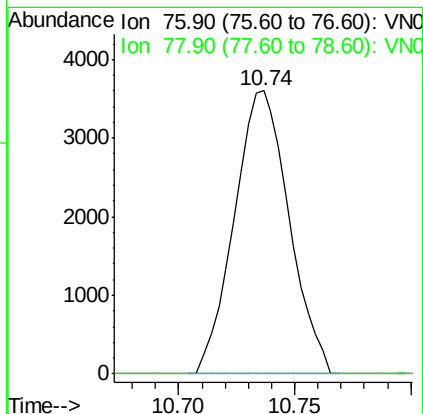
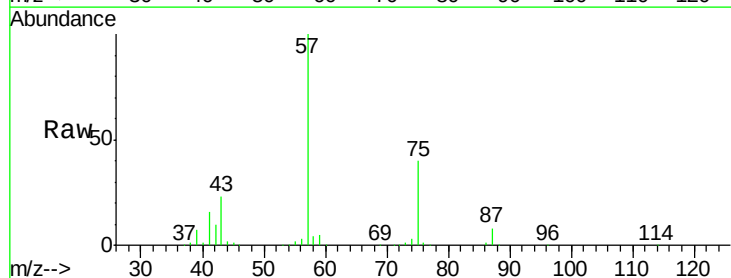
Tgt Ion: 75 Resp: 34703
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 43.1 49.7 74.5#

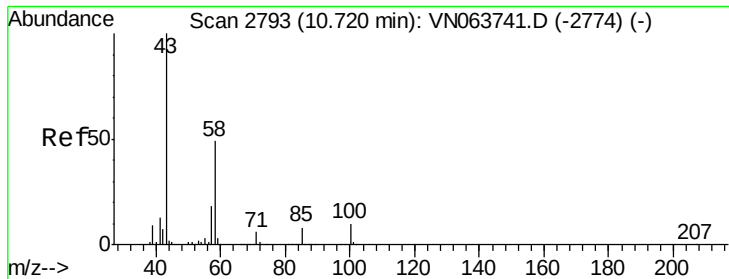


#57

1,3-Dichloropropane
 Concen: 1.082 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064025.D
 Acq: 9 Oct 2020 6:52

Tgt Ion: 76 Resp: 5900
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 31.295 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

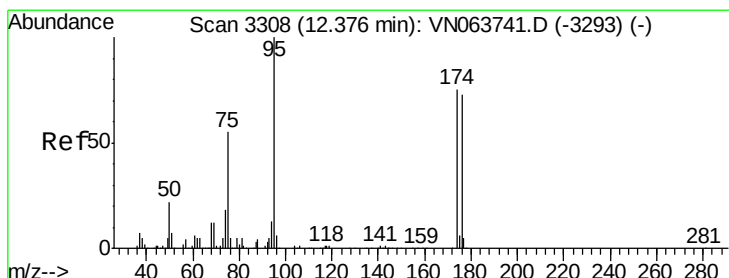
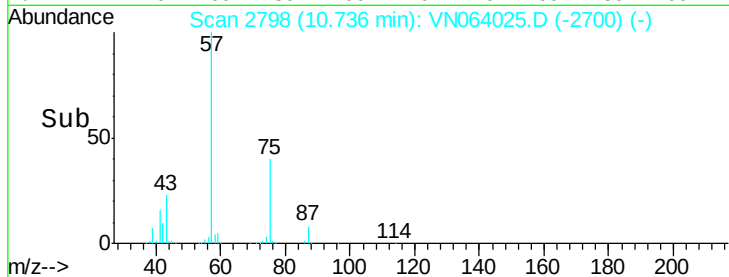
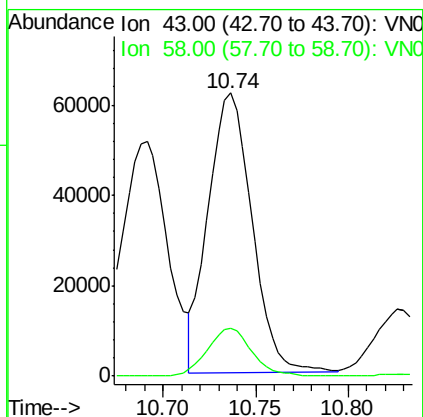
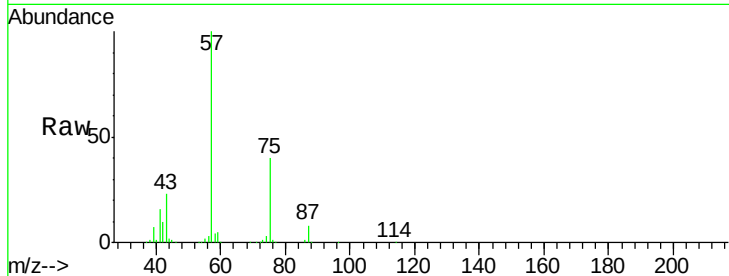
PAV-B13-100620-DP

Tgt Ion: 43 Resp: 101703

Ion Ratio Lower Upper

43 100

58 17.5 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 48.590 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

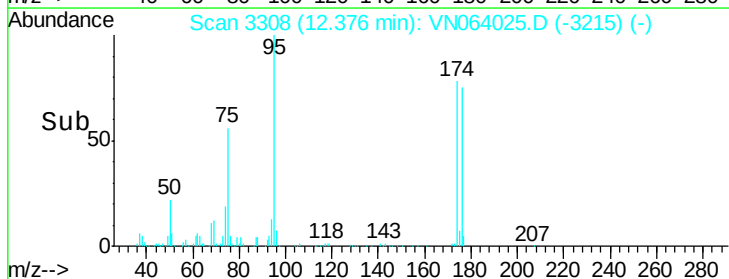
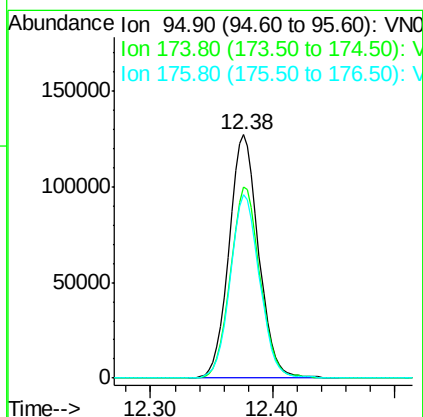
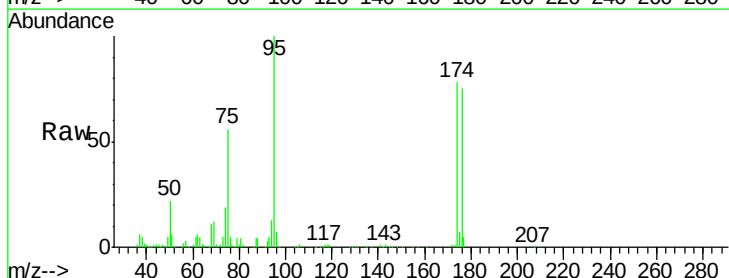
Tgt Ion: 95 Resp: 215734

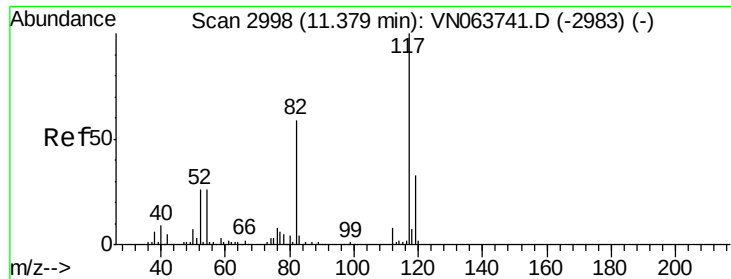
Ion Ratio Lower Upper

95 100

174 78.4 0.0 150.6

176 74.9 0.0 145.4

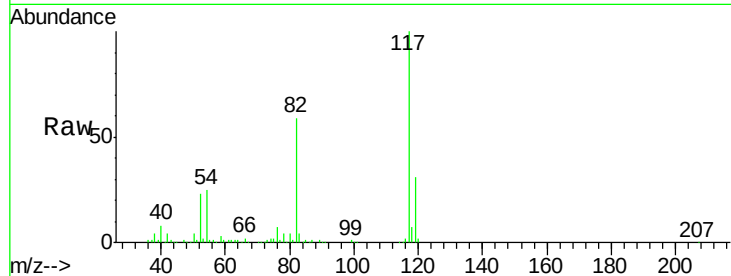




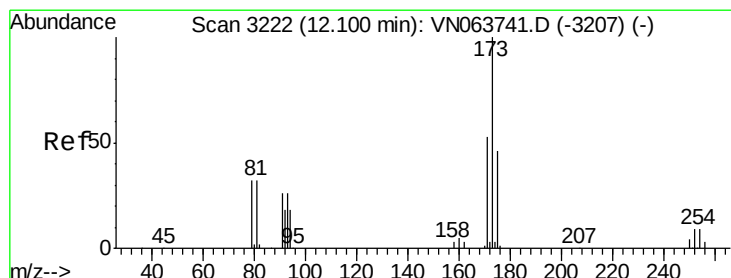
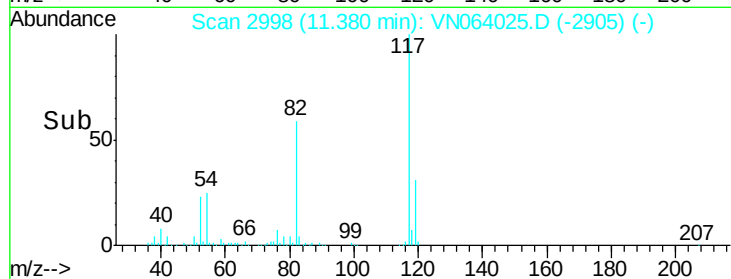
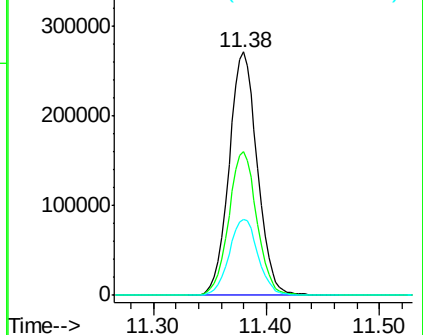
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

Instrument :
MSVOA_N
ClientSampleId :
PAV-B13-100620-DP

Tgt Ion:117 Resp: 470047
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.2
119 31.4 26.4 39.6

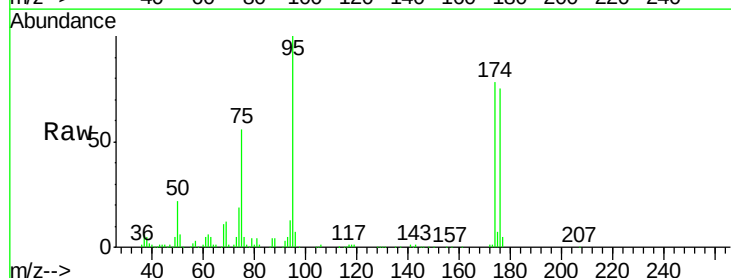


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

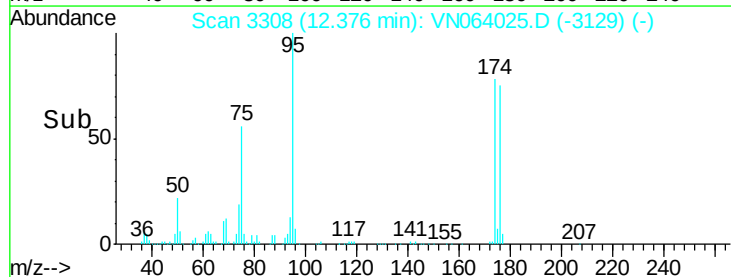
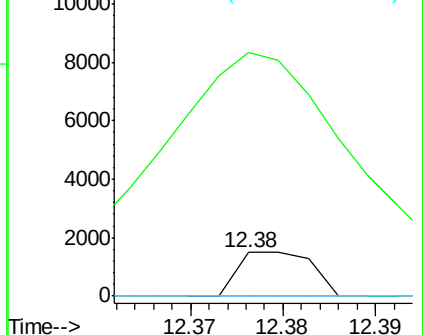


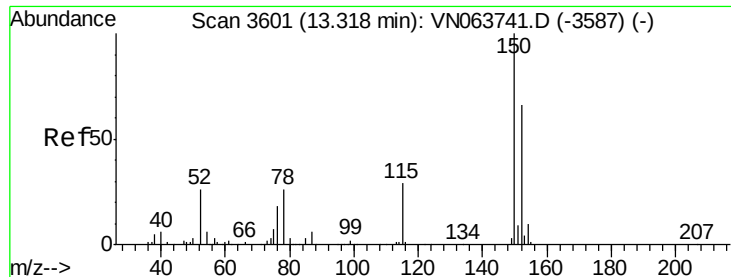
#71
Bromoform
Concen: 0.292 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064025.D
Acq: 9 Oct 2020 6:52

Tgt Ion:173 Resp: 825
Ion Ratio Lower Upper
173 100
175 1331.3 23.5 70.5#
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# 3601

Delta R.T. 0.00 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B13-100620-DP

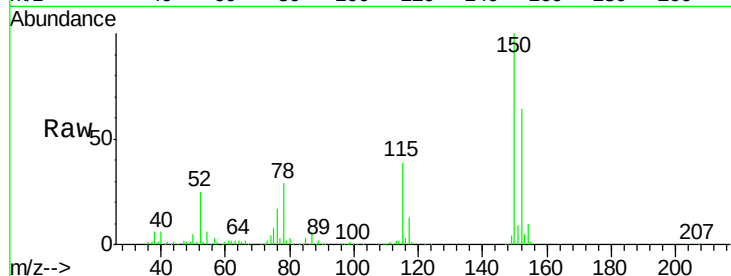
Tgt Ion:152 Resp: 181942

Ion Ratio Lower Upper

152 100

115 61.9 31.3 93.8

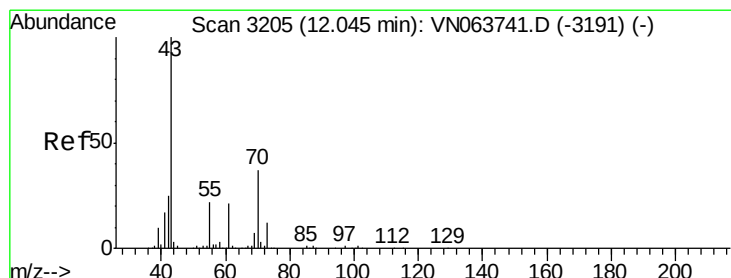
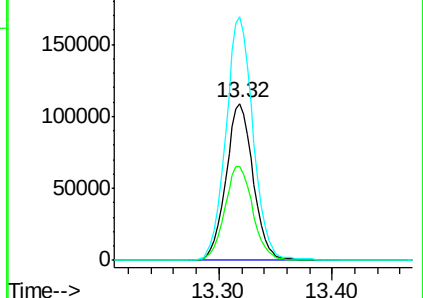
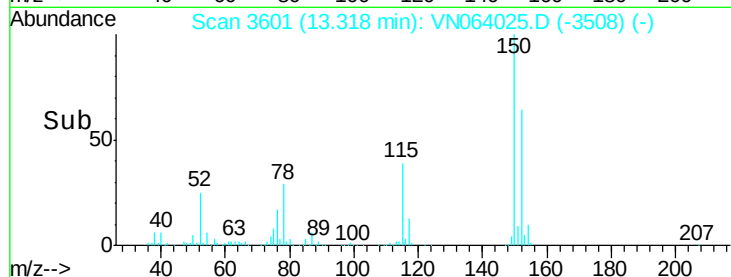
150 155.5 0.0 341.8



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-ethyl acetate

Concen: 2.827 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Tgt Ion: 43 Resp: 3943

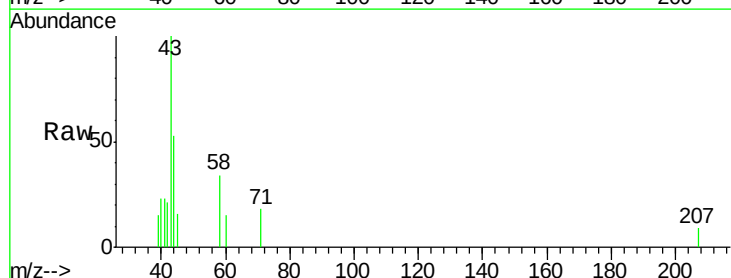
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 1.5 17.9 26.9#

61 0.0 17.0 25.4#

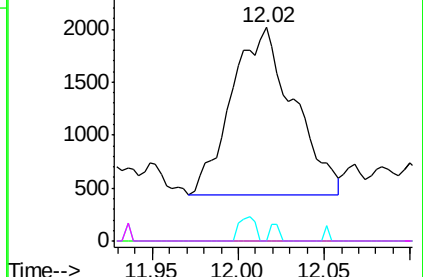
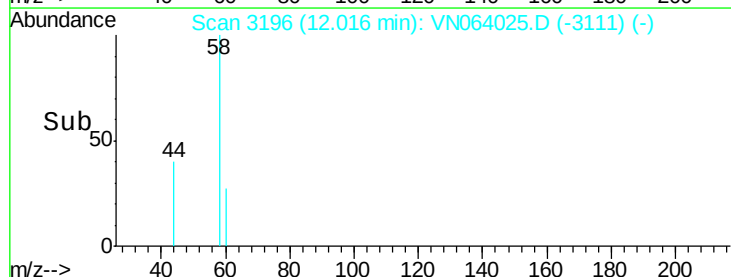


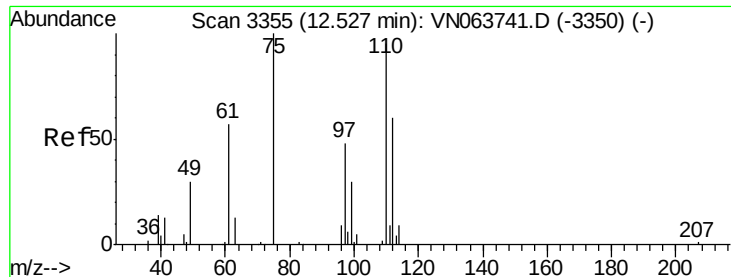
Abundance Ion 43.00 (42.70 to 43.70): V

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: 29.831 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Instrument :

MSVOA_N

ClientSampleId :

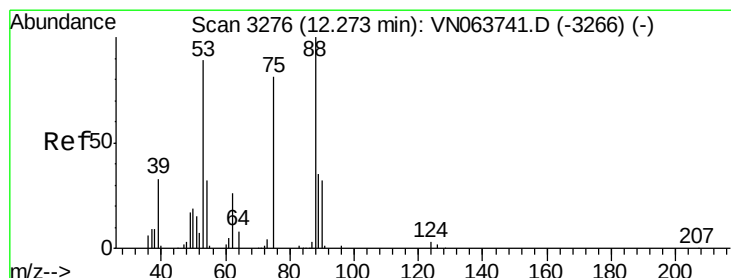
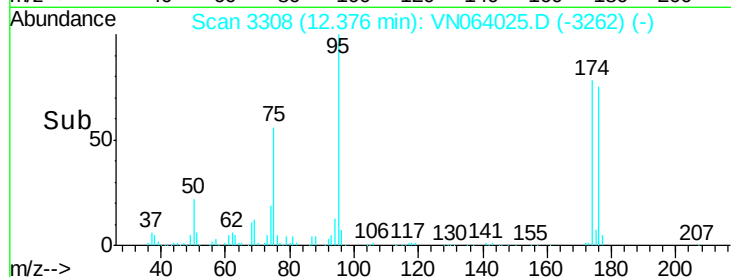
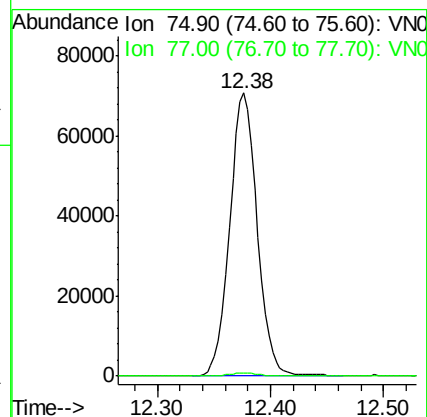
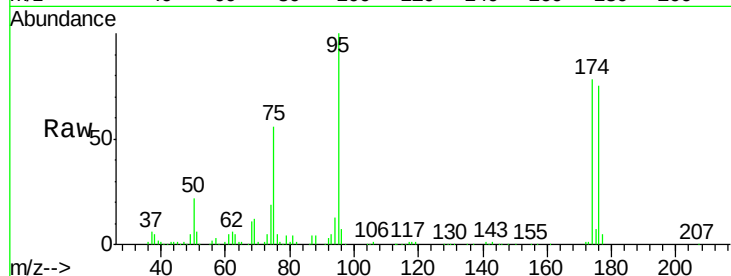
PAV-B13-100620-DP

Tgt Ion: 75 Resp: 119643

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.917 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064025.D

Acq: 9 Oct 2020 6:52

Tgt Ion: 75 Resp: 119643

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

