

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100820\
 Data File : VN064026.D
 Acq On : 9 Oct 2020 7:16
 Operator : JC/MD
 Sample : L4311-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-0-1

Quant Time: Oct 09 12:07:18 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	237428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458034	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	480744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182254	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	201664	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
35) Dibromofluoromethane	7.55	113	153562	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
50) Toluene-d8	10.06	98	582698	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
62) 4-Bromofluorobenzene	12.38	95	221948	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	

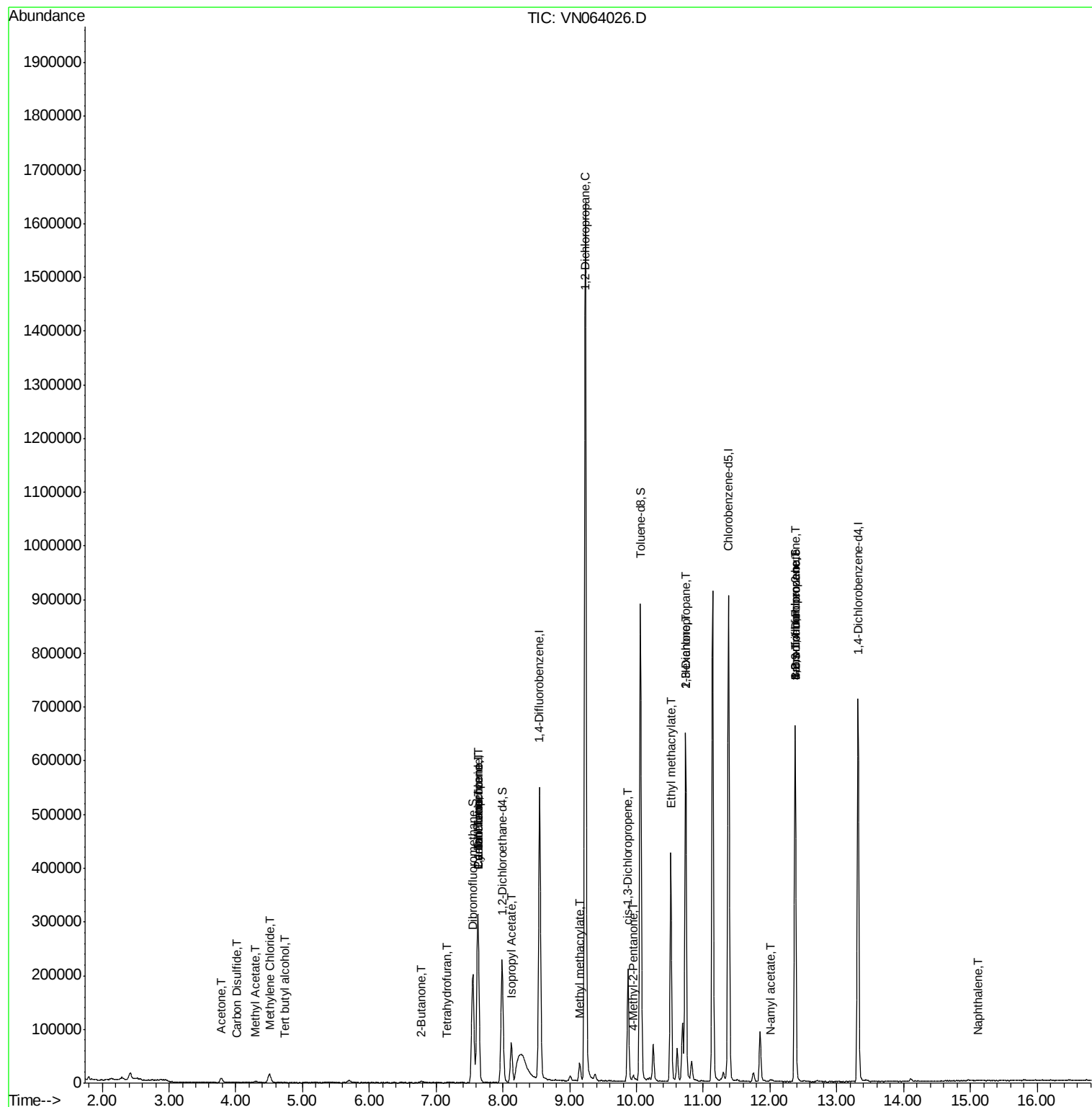
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	106	0.245	ug/l #	71
16) Acetone	3.78	43	15171	12.564	ug/l	95
17) Carbon Disulfide	4.01	76	417	0.764	ug/l #	76
18) Methyl Acetate	4.30	43	4577	1.460	ug/l #	71
20) Methylene Chloride	4.50	84	5271	2.000	ug/l	86
25) 2-Butanone	6.78	43	642	0.375	ug/l #	51
29) Tetrahydrofuran	7.17	42	428	0.373	ug/l #	36
31) Cyclohexane	7.62	56	3335	0.732	ug/l #	33
36) 1,1-Dichloropropene	7.62	75	21488	4.631	ug/l #	51
38) Carbon Tetrachloride	7.63	117	24704	4.748	ug/l #	16
43) Isopropyl Acetate	8.13	43	88296	11.611	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1931	0.539	ug/l #	44
48) Methyl methacrylate	9.14	41	5799	1.544	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	8196	1.837	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	34048	5.968	ug/l #	64
56) Ethyl methacrylate	10.51	69	2354	0.505	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6288	1.130	ug/l #	43
59) 2-Hexanone	10.74	43	98602	29.743	ug/l #	55
71) Bromoform	12.37	173	761	0.263	ug/l #	1
74) N-amyl acetate	12.01	43	2704	2.634	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	121516	30.246	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	121516	87.113	ug/l #	6
95) Naphthalene	15.10	128	866	2.009	ug/l #	69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN100820\
Data File : VN064026.D
Acq On : 9 Oct 2020 7:16
Operator : JC/MD
Sample : L4311-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

Quant Time: Oct 09 12:07:18 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

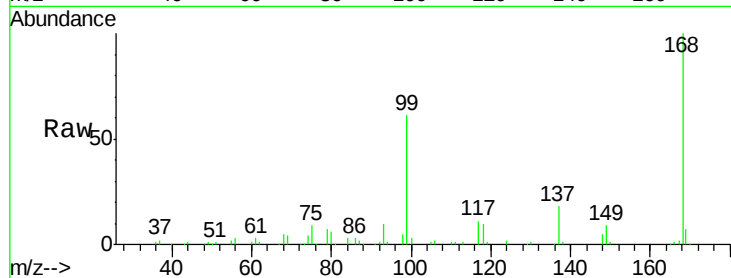
PAV-B10-100720-0-1

Tgt Ion: 168 Resp: 237428

Ion Ratio Lower Upper

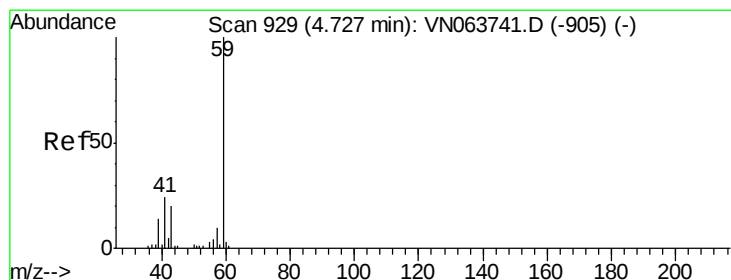
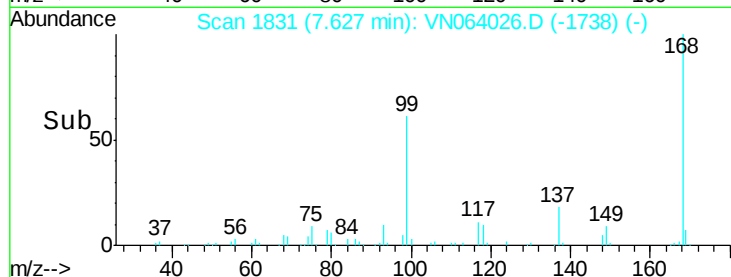
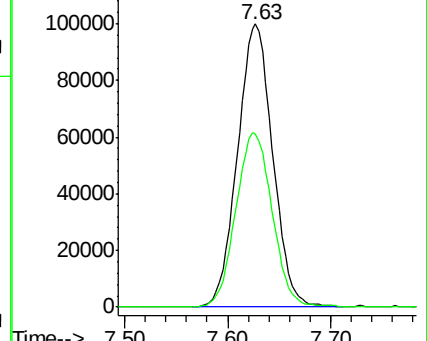
168 100

99 61.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.245 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN064026.D

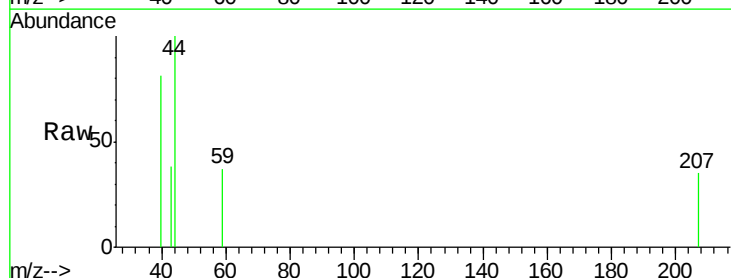
Acq: 9 Oct 2020 7:16

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

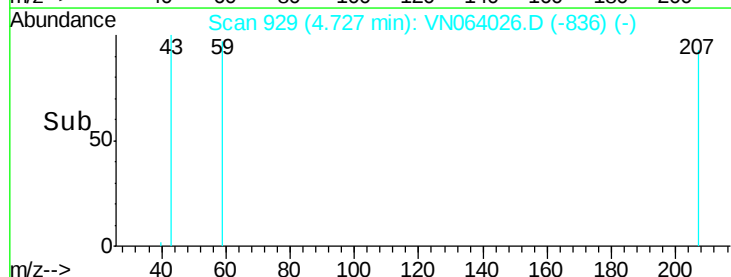
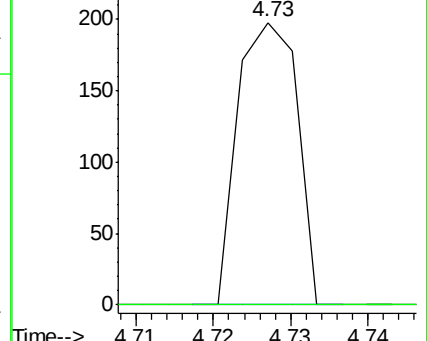
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 12.564 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

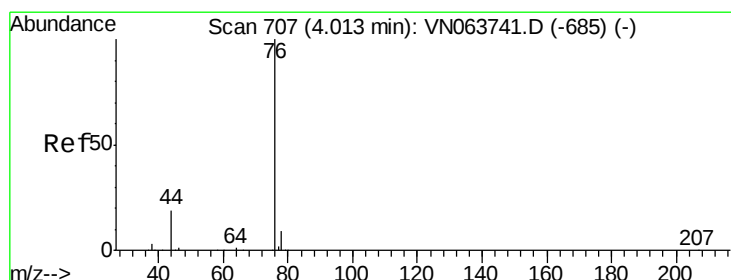
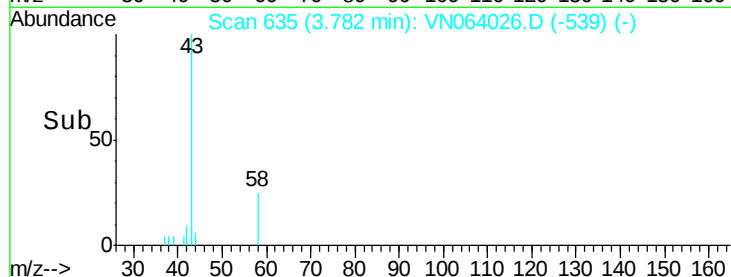
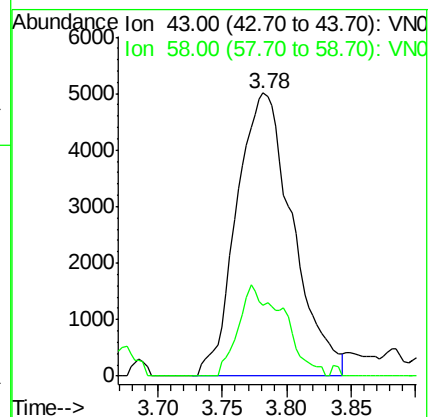
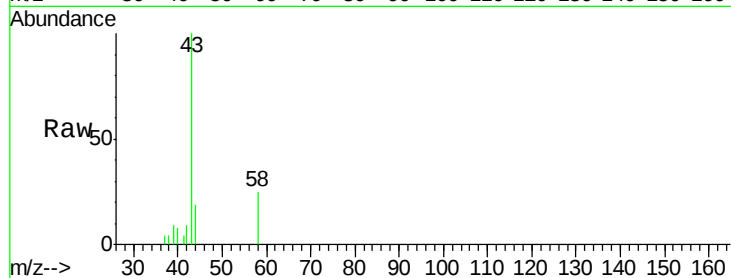
PAV-B10-100720-0-1

Tgt Ion: 43 Resp: 15171

Ion Ratio Lower Upper

43 100

58 25.2 22.3 33.5



#17

Carbon Disulfide

Concen: 0.764 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064026.D

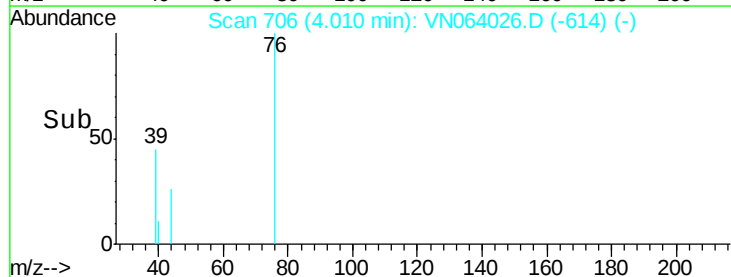
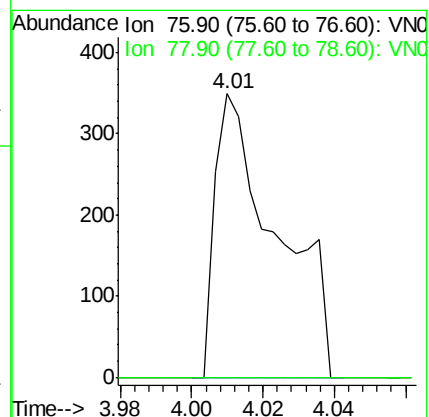
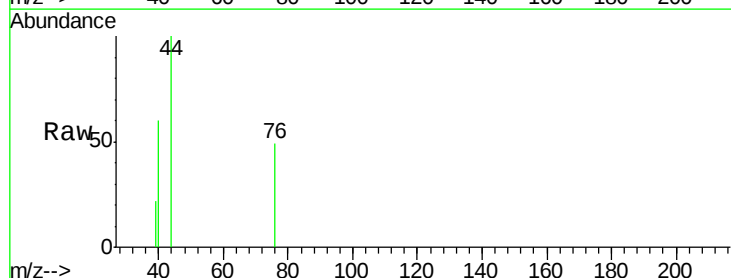
Acq: 9 Oct 2020 7:16

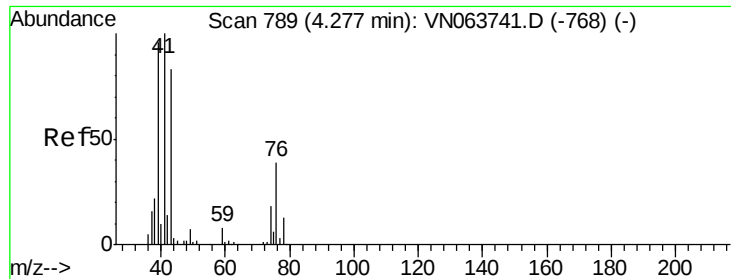
Tgt Ion: 76 Resp: 417

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

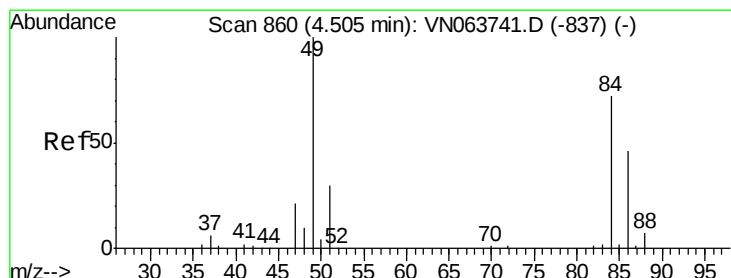
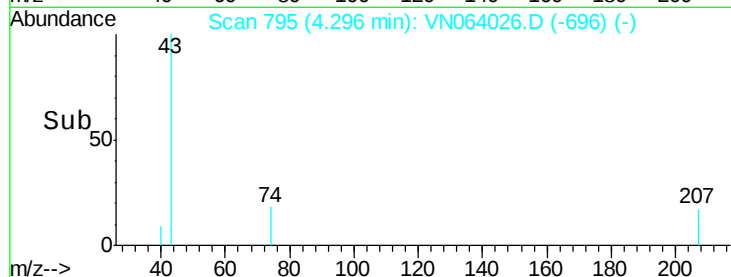
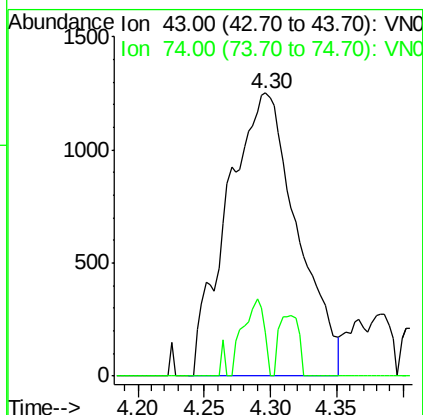
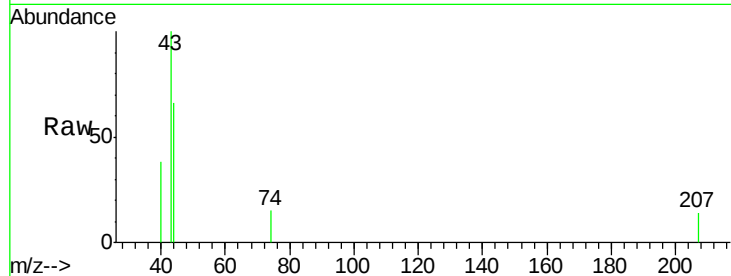




#18
Methyl Acetate
Concen: 1.460 ug/l
RT: 4.30 min Scan# 795
Delta R.T. 0.02 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

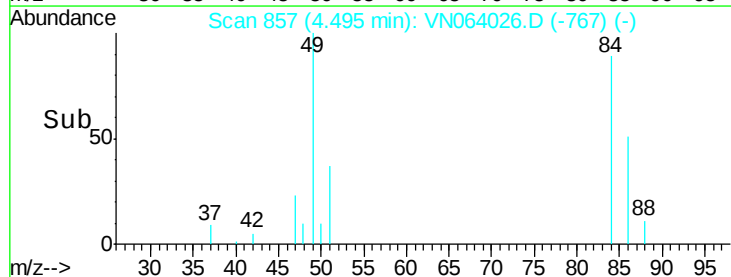
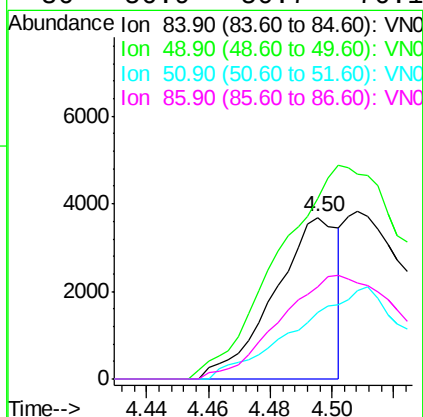
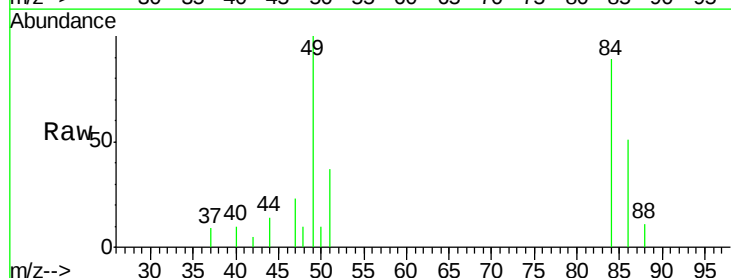
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

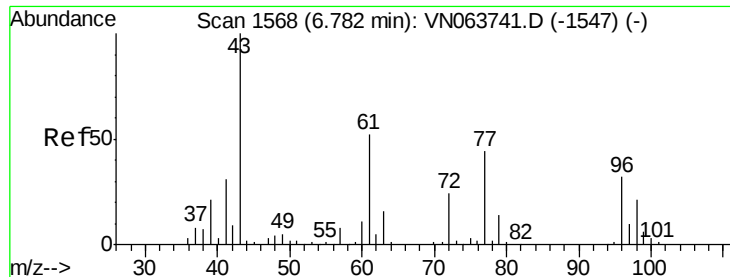
Tgt Ion: 43 Resp: 4577
Ion Ratio Lower Upper
43 100
74 8.2 17.4 26.2#



#20
Methylene Chloride
Concen: 2.000 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Tgt Ion: 84 Resp: 5271
Ion Ratio Lower Upper
84 100
49 111.9 110.4 165.6
51 41.6 33.3 49.9
86 56.9 50.7 76.1





#25

2-Butanone

Concen: 0.375 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

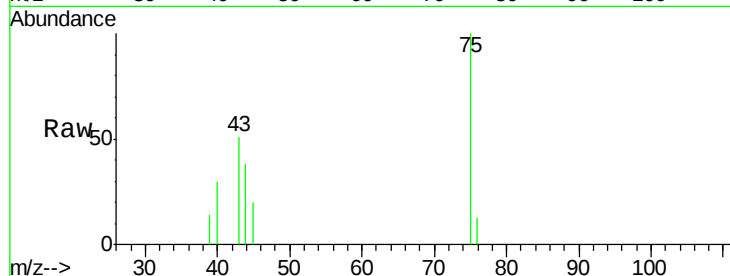
PAV-B10-100720-0-1

Tgt Ion: 43 Resp: 642

Ion Ratio Lower Upper

43 100

72 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

800

600

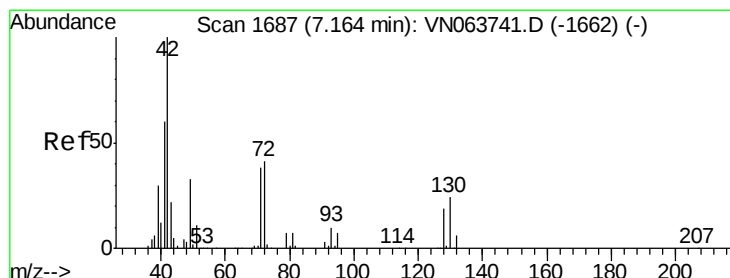
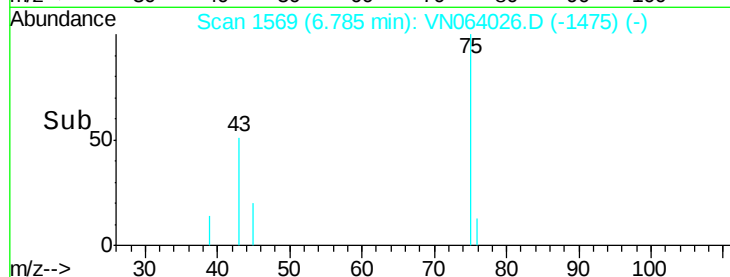
400

200

0

6.76 6.77 6.78 6.79 6.80

Time-->



#29

Tetrahydrofuran

Concen: 0.373 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

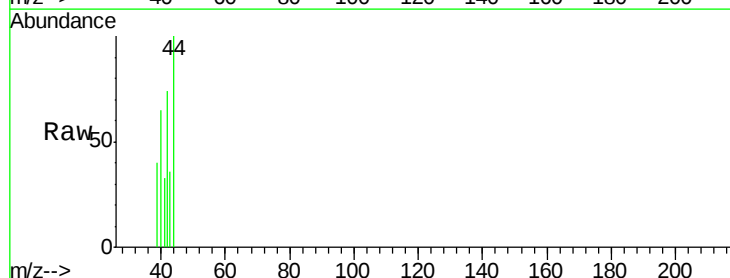
Tgt Ion: 42 Resp: 428

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

300

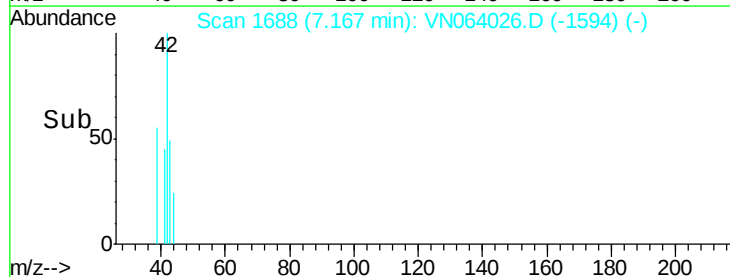
200

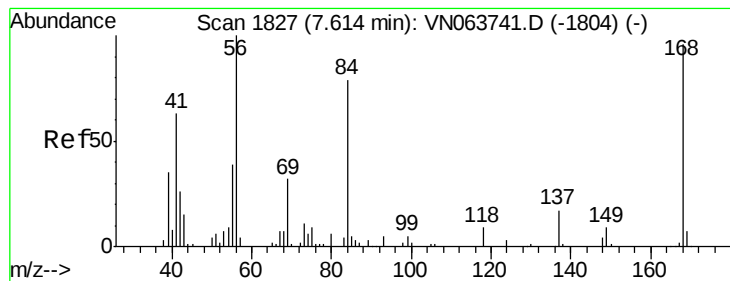
100

0

7.14 7.16 7.18

Time-->





#31

Cyclohexane

Concen: 0.732 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-0-1

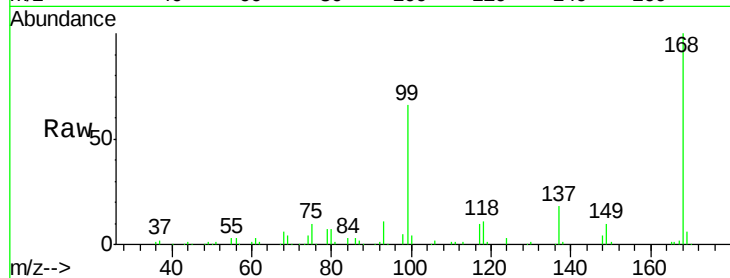
Tgt Ion: 56 Resp: 3335

Ion Ratio Lower Upper

56 100

69 137.6 25.4 38.2#

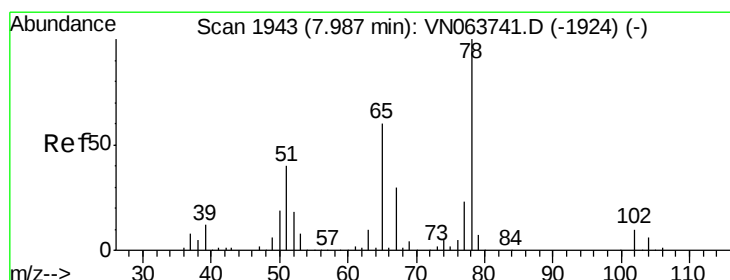
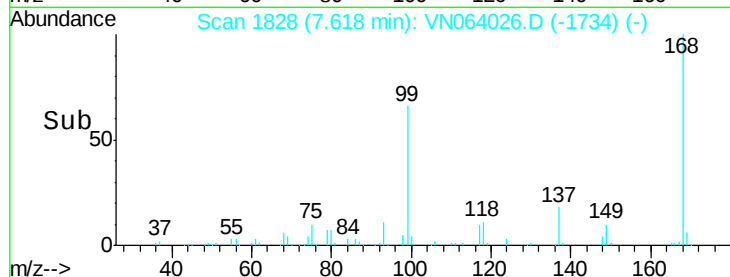
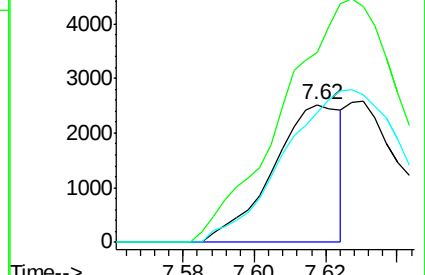
84 94.0 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN064026.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN064026.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN064026.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.412 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064026.D

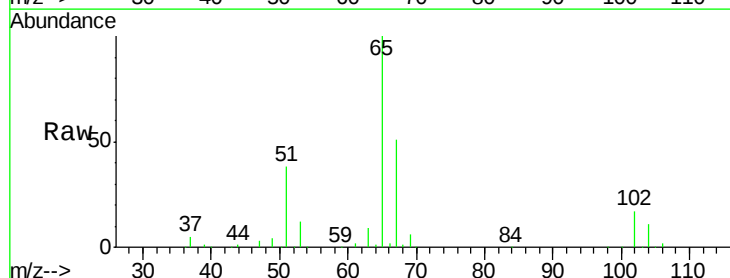
Acq: 9 Oct 2020 7:16

Tgt Ion: 65 Resp: 201664

Ion Ratio Lower Upper

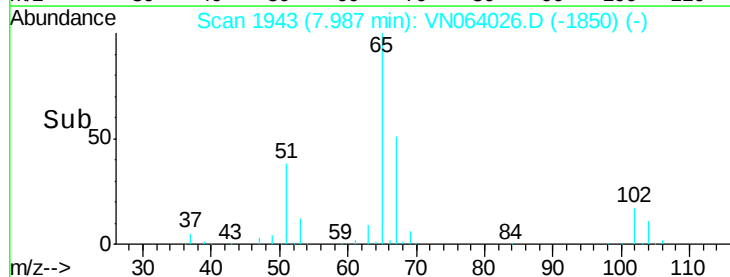
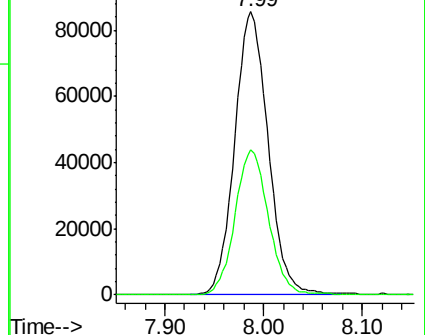
65 100

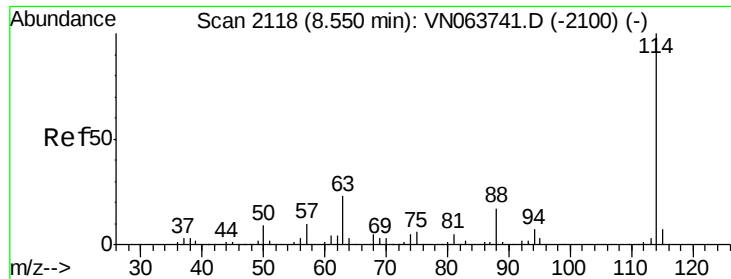
67 51.2 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN064026.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064026.D (-1850) (-)

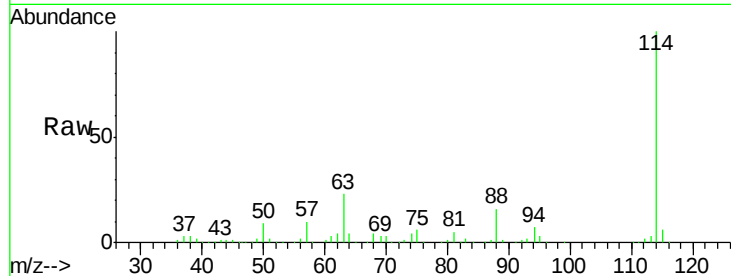




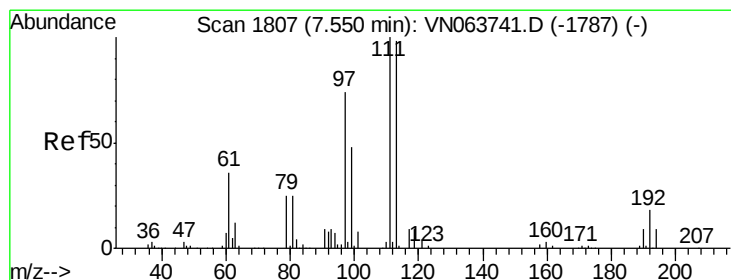
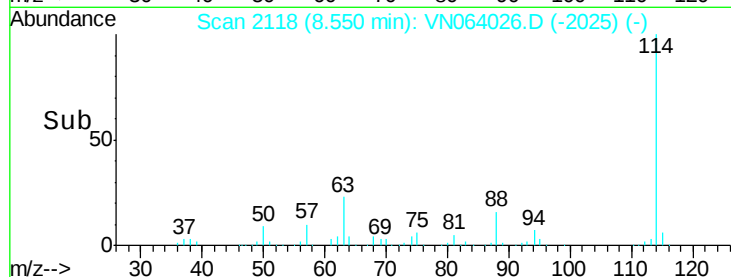
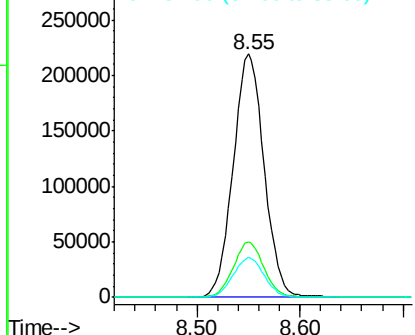
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-0-1

Tgt Ion:114 Resp: 458034
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.0
 88 16.3 0.0 34.0

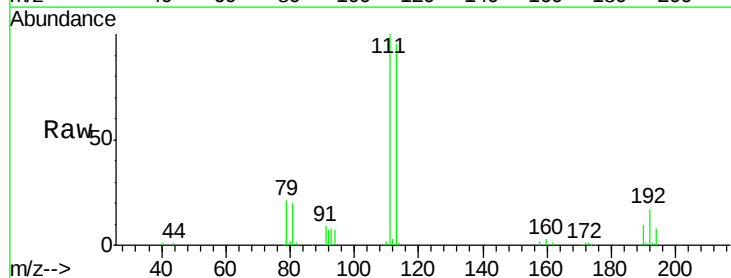


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

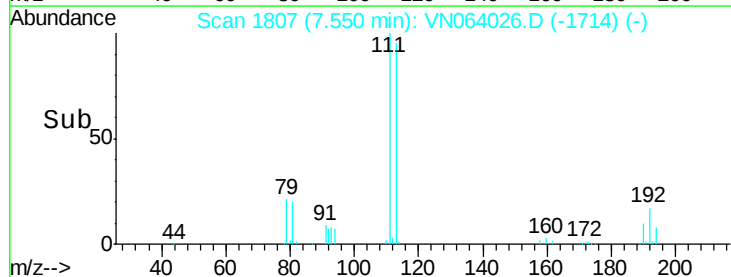
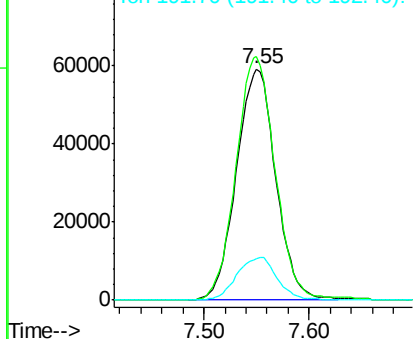


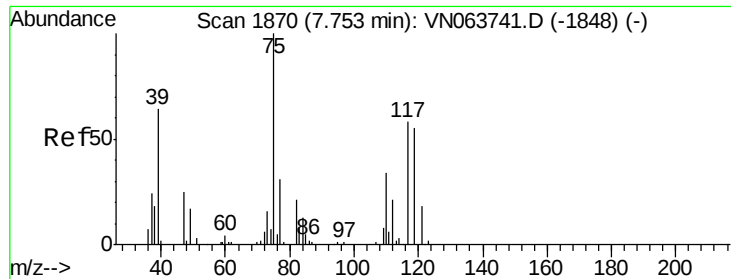
#35
 Dibromofluoromethane
 Concen: 48.317 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

Tgt Ion:113 Resp: 153562
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.8 122.8
 192 18.8 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

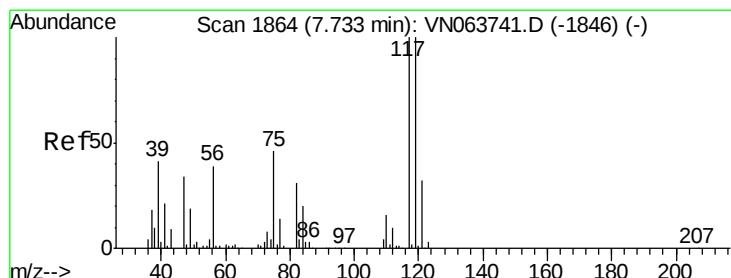
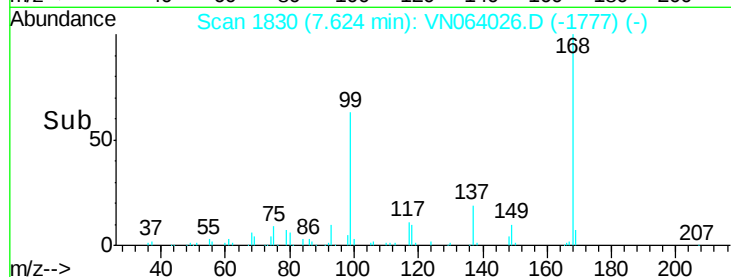
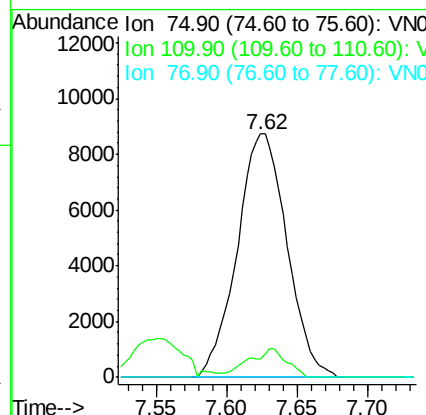
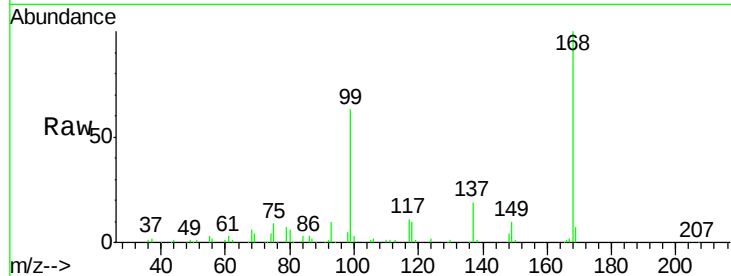




#36
 1,1-Dichloropropene
 Concen: 4.631 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

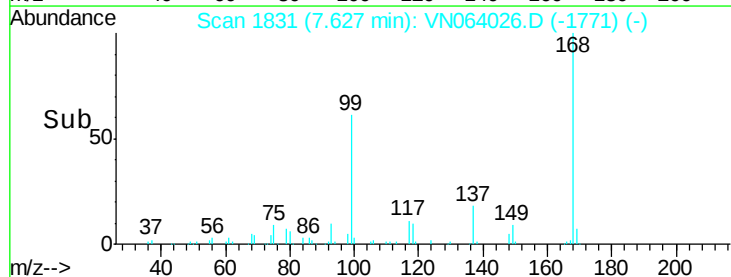
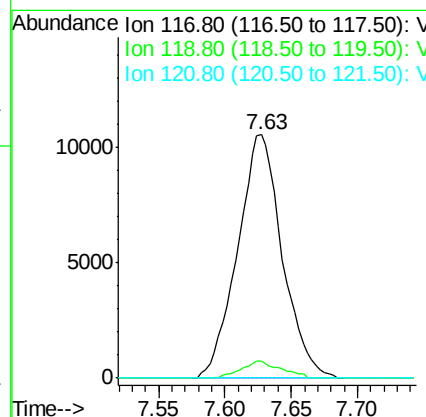
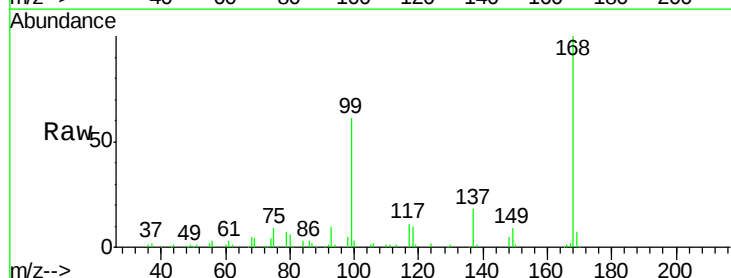
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-0-1

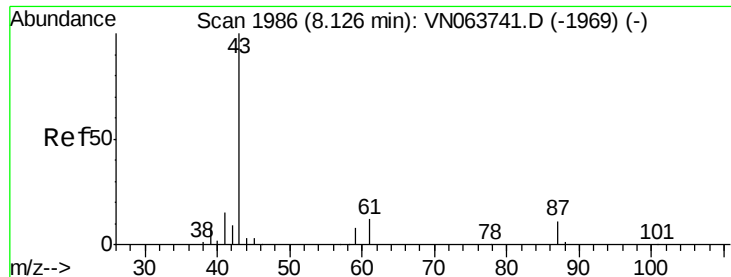
Tgt Ion: 75 Resp: 21488
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 4.748 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

Tgt Ion: 117 Resp: 24704
 Ion Ratio Lower Upper
 117 100
 119 7.2 80.1 120.1#
 121 0.0 25.7 38.5#

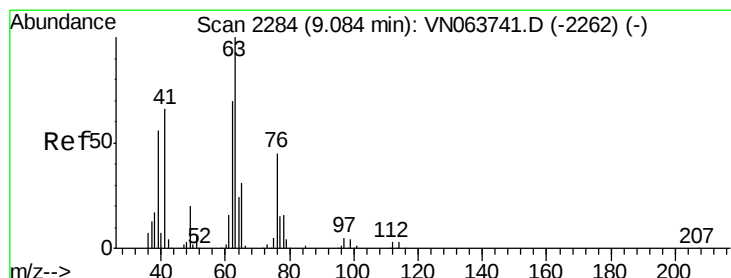
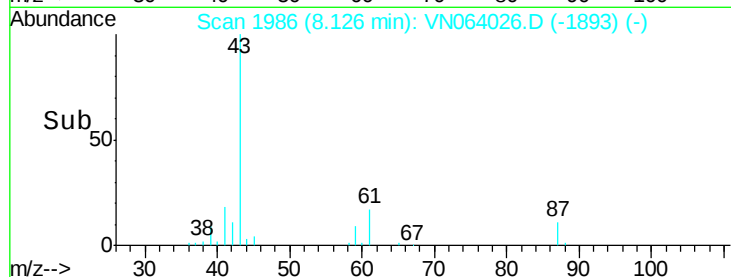
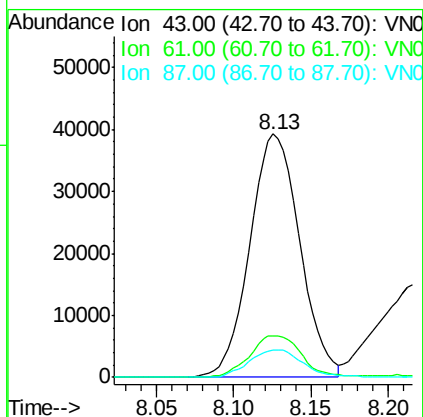
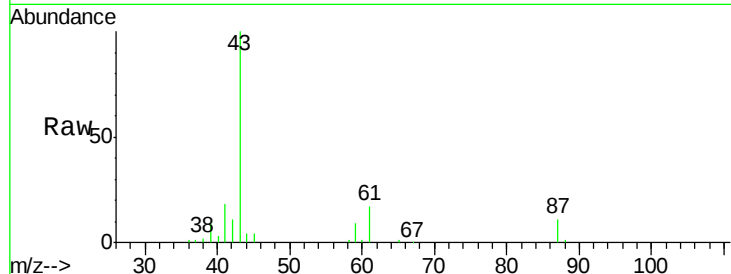




#43
Isopropyl Acetate
Concen: 11.611 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

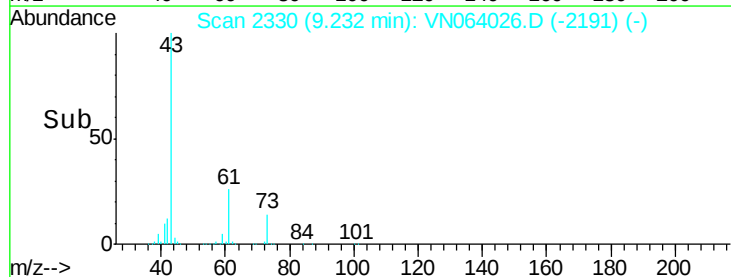
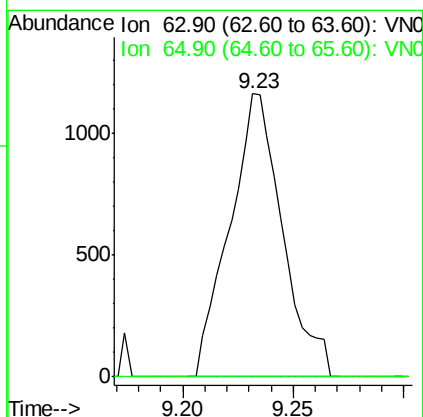
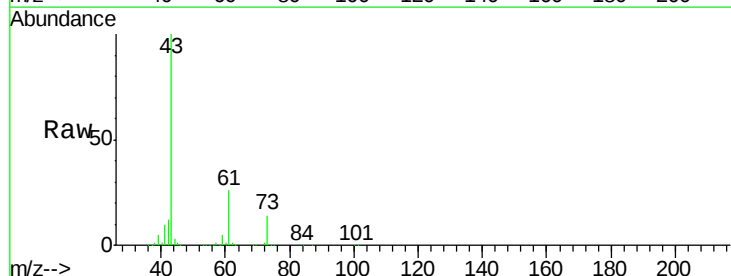
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

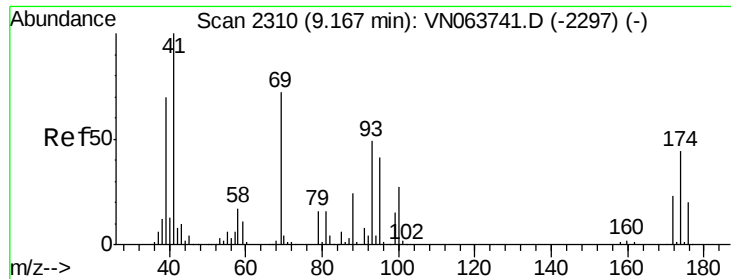
Tgt Ion: 43 Resp: 88296
Ion Ratio Lower Upper
43 100
61 17.9 14.2 21.4
87 12.2 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.539 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.15 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Tgt Ion: 63 Resp: 1931
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

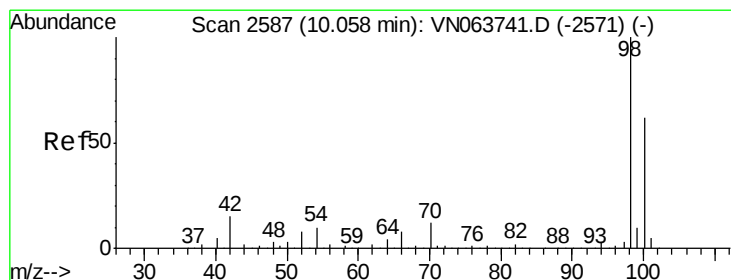
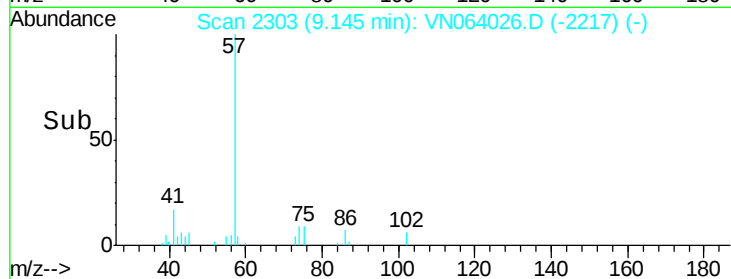
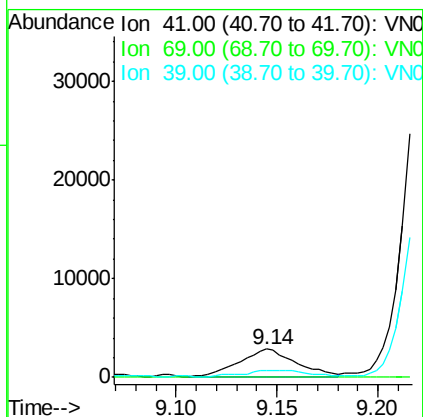
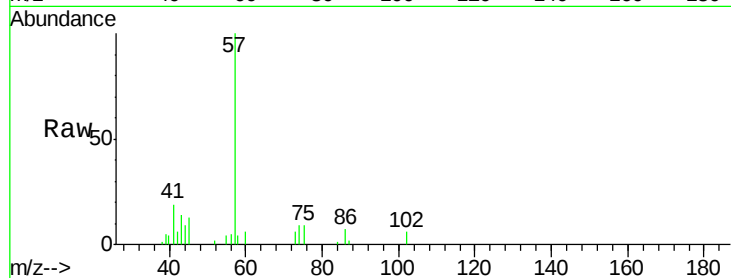




#48
Methyl methacrylate
Concen: 1.544 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

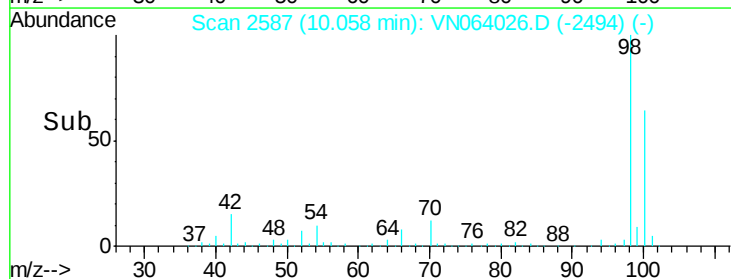
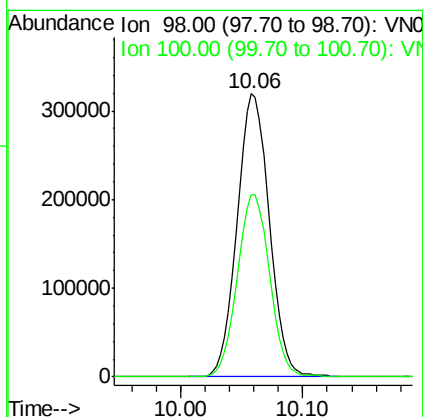
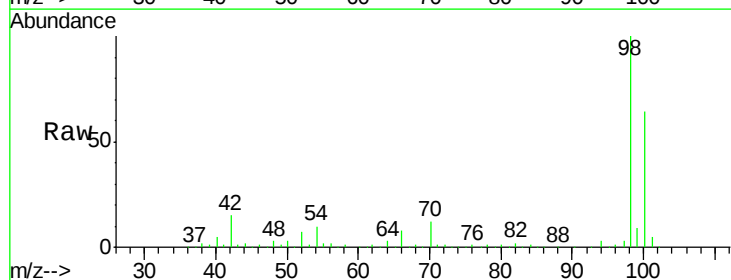
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

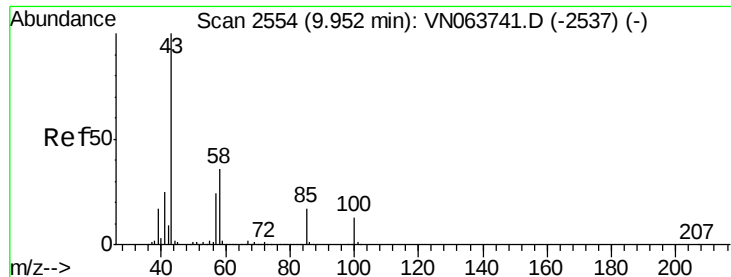
Tgt Ion: 41 Resp: 5799
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#50
Toluene-d8
Concen: 48.364 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Tgt Ion: 98 Resp: 582698
Ion Ratio Lower Upper
98 100
100 64.5 49.8 74.6

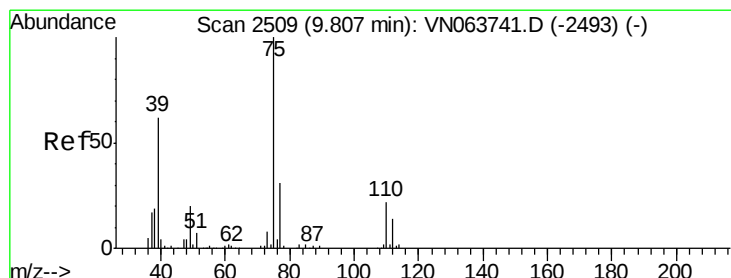
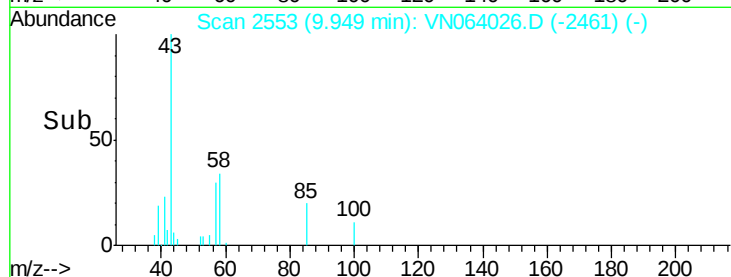
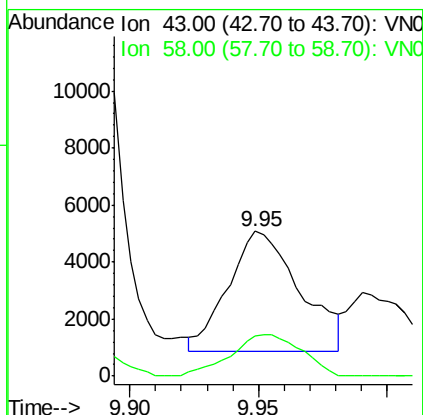
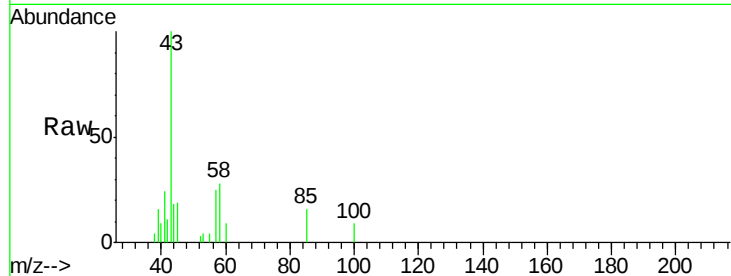




#51
 4-Methyl-2-Pentanone
 Concen: 1.837 ug/l
 RT: 9.95 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

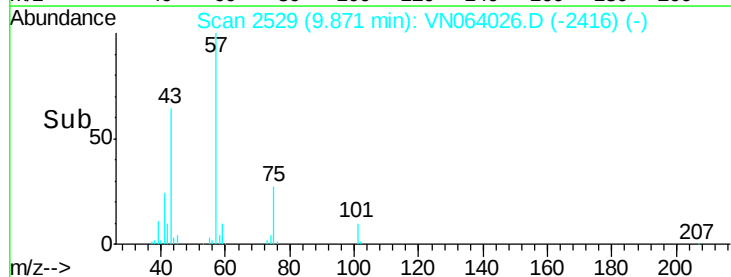
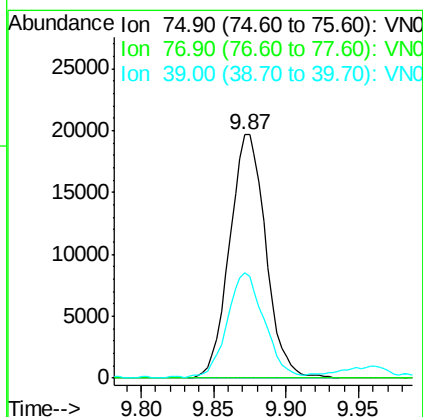
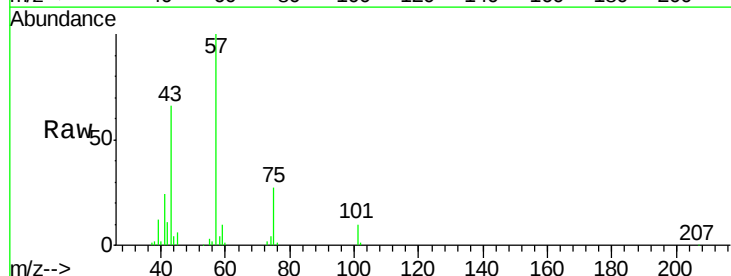
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-0-1

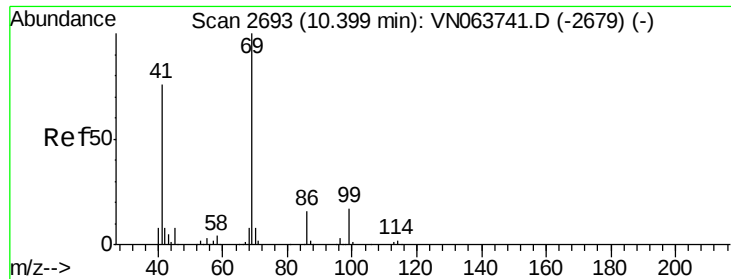
Tgt Ion: 43 Resp: 8196
 Ion Ratio Lower Upper
 43 100
 58 34.0 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.968 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

Tgt Ion: 75 Resp: 34048
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 42.5 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.505 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-0-1

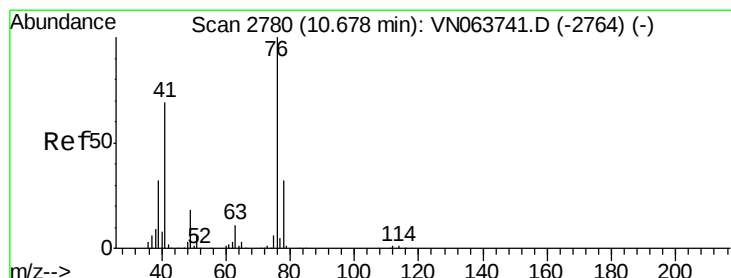
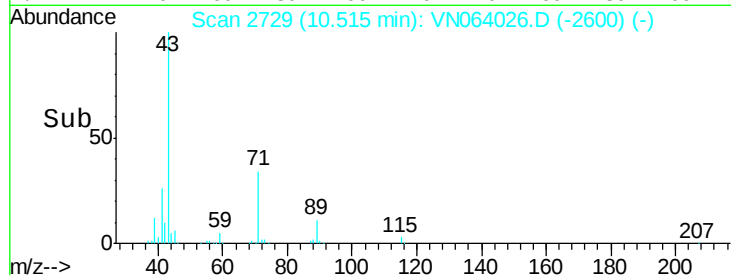
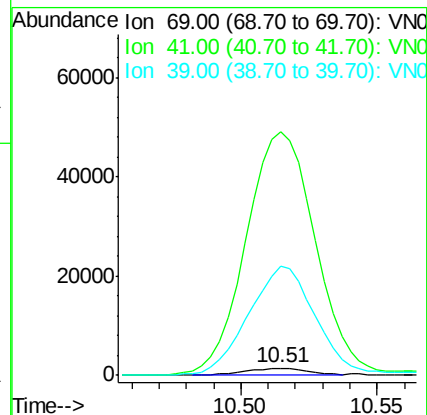
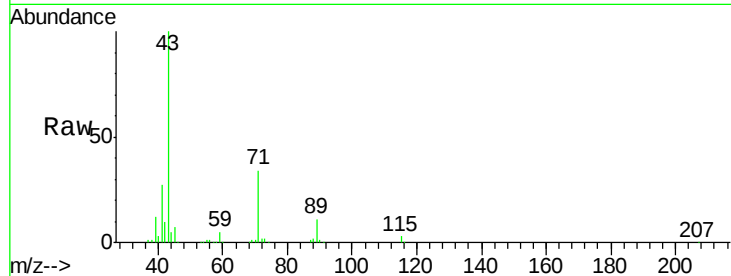
Tgt Ion: 69 Resp: 2354

Ion Ratio Lower Upper

69 100

41 3711.1 61.1 91.7#

39 1607.9 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.130 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064026.D

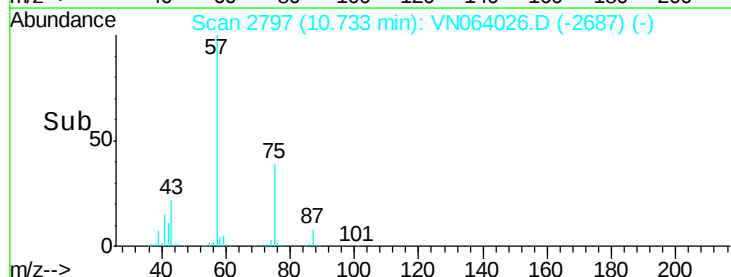
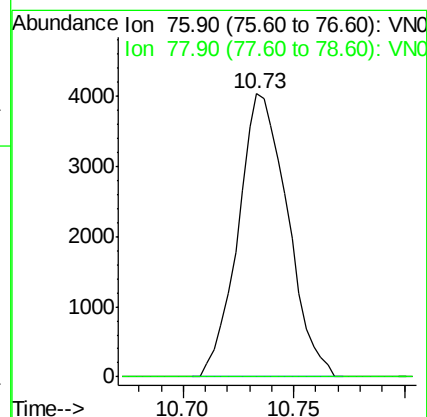
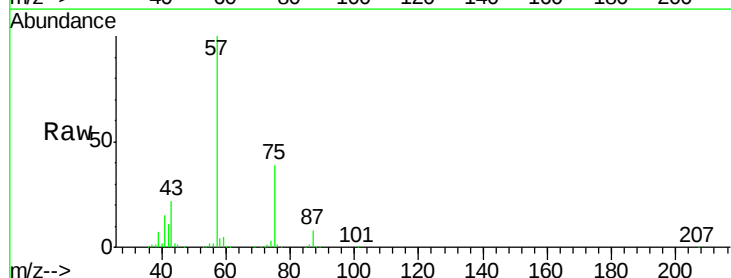
Acq: 9 Oct 2020 7:16

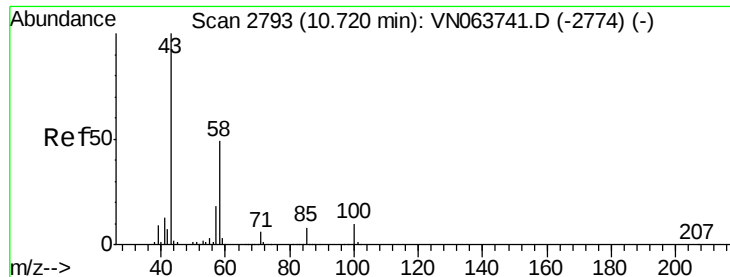
Tgt Ion: 76 Resp: 6288

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

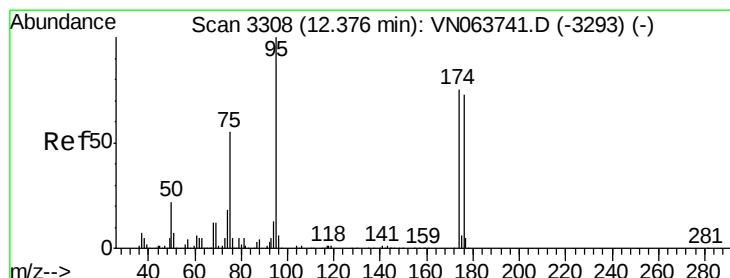
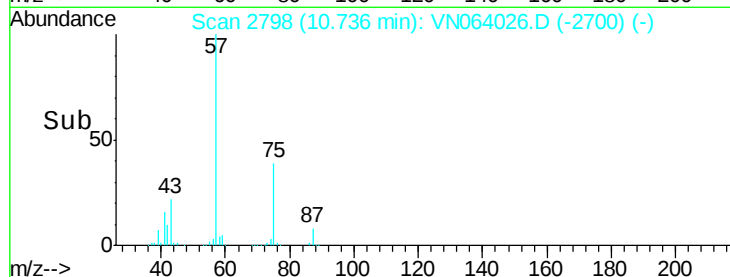
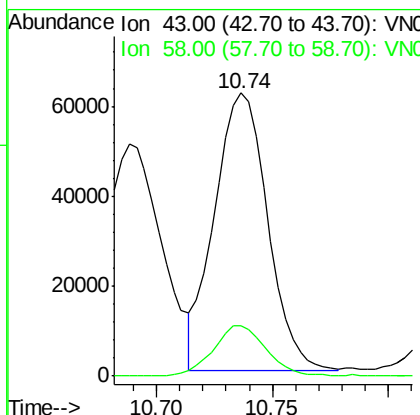
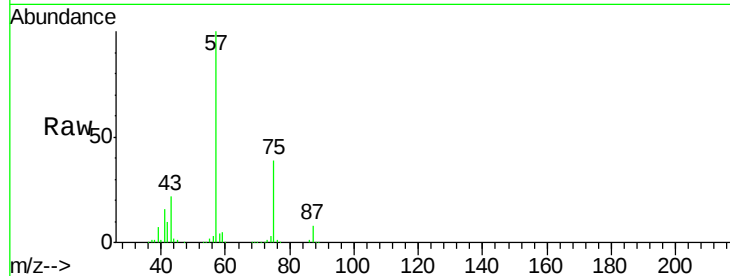




#59
2-Hexanone
Concen: 29.743 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

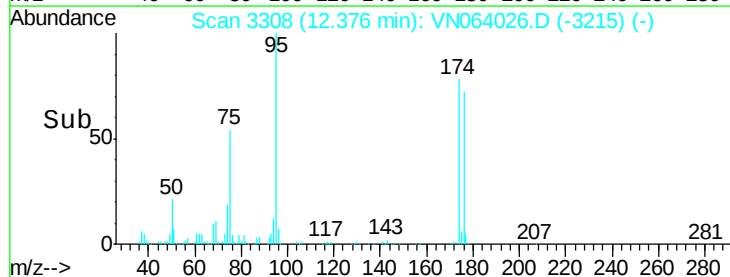
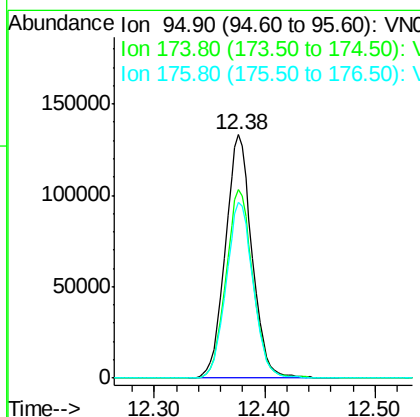
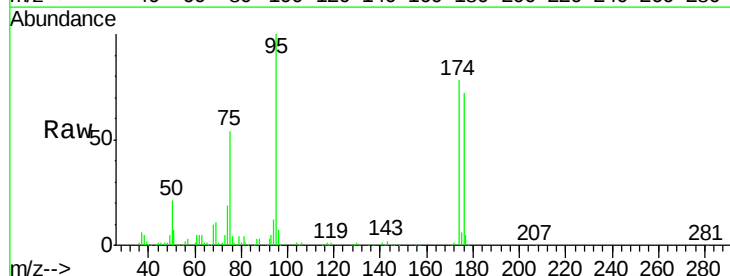
Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

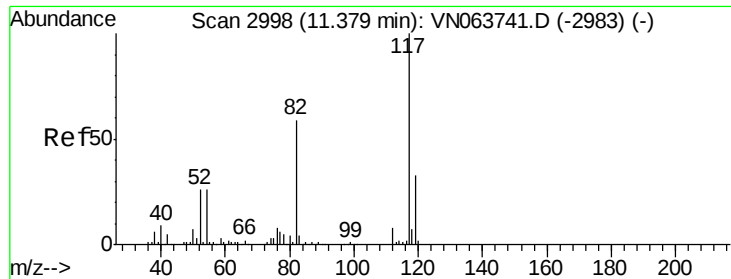
Tgt Ion: 43 Resp: 98602
Ion Ratio Lower Upper
43 100
58 18.2 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.006 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Tgt Ion: 95 Resp: 221948
Ion Ratio Lower Upper
95 100
174 78.6 0.0 150.6
176 73.3 0.0 145.4

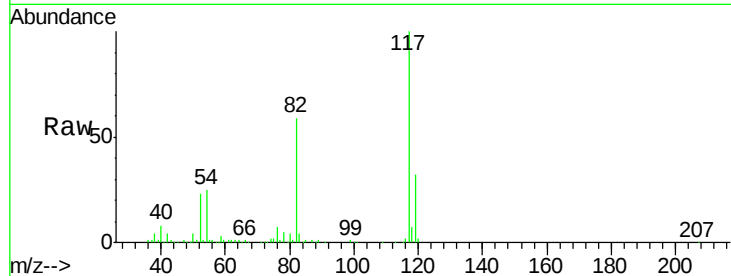




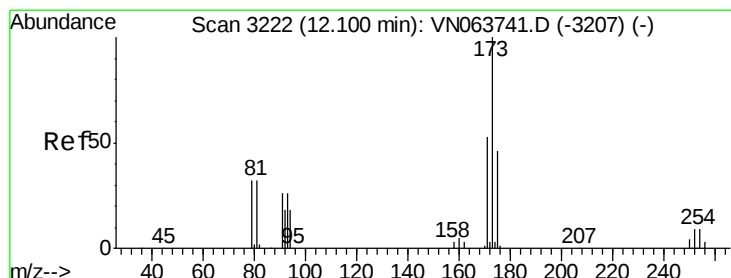
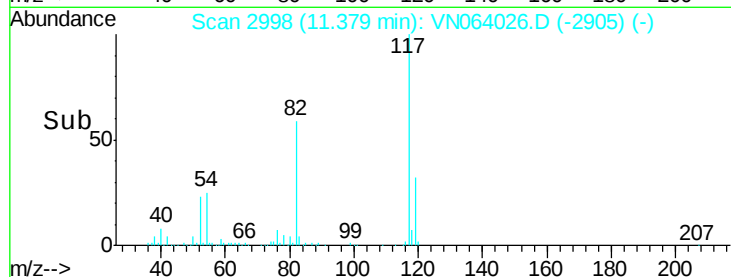
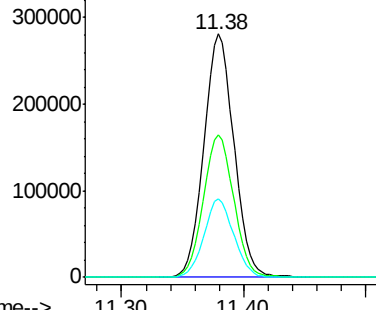
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Instrument :
MSVOA_N
ClientSampleId :
PAV-B10-100720-0-1

Tgt Ion:117 Resp: 480744
Ion Ratio Lower Upper
117 100
82 58.7 47.4 71.2
119 32.3 26.4 39.6

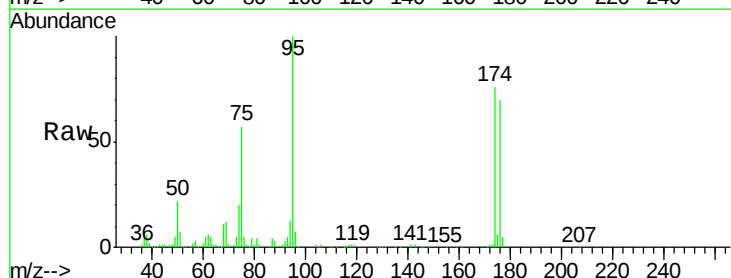


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

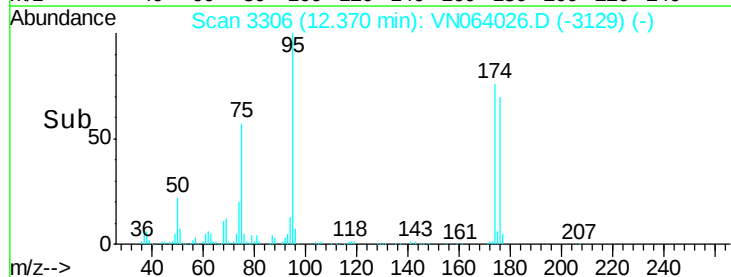
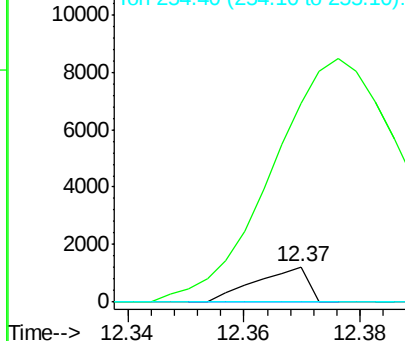


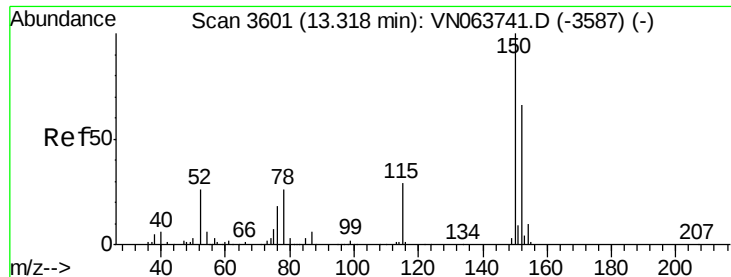
#71
Bromoform
Concen: 0.263 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN064026.D
Acq: 9 Oct 2020 7:16

Tgt Ion:173 Resp: 761
Ion Ratio Lower Upper
173 100
175 1494.3 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: VN064026.D

Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-0-1

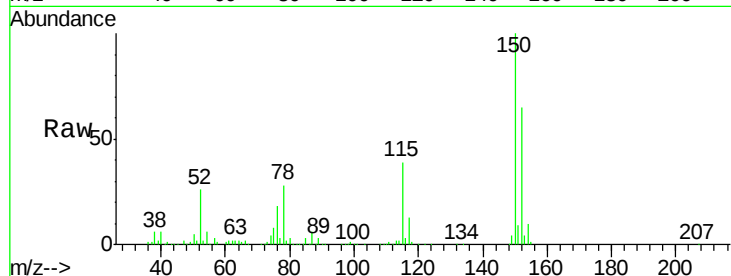
Tgt Ion:152 Resp: 182254

Ion Ratio Lower Upper

152 100

115 62.1 31.3 93.8

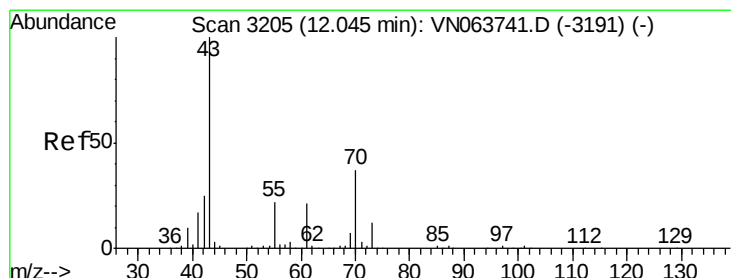
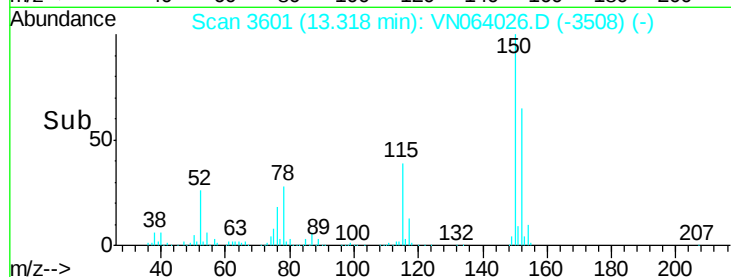
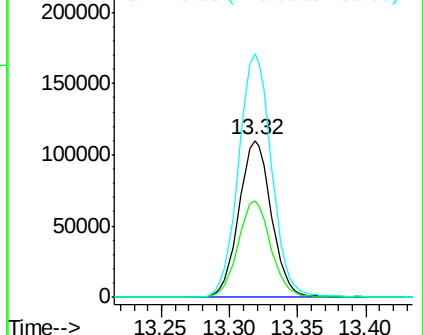
150 157.9 0.0 341.8



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: 2.634 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064026.D

Acq: 9 Oct 2020 7:16

Tgt Ion: 43 Resp: 2704

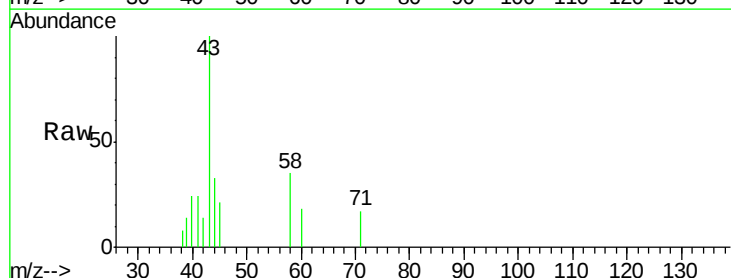
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 2.2 17.9 26.9#

61 0.0 17.0 25.4#

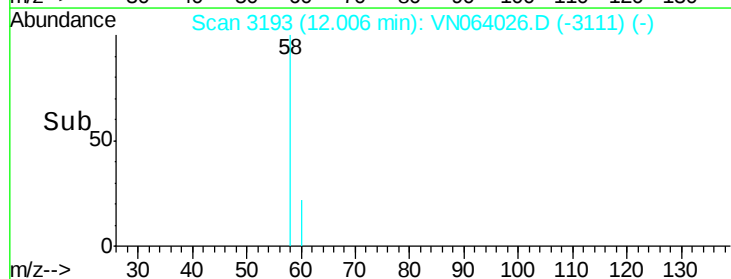
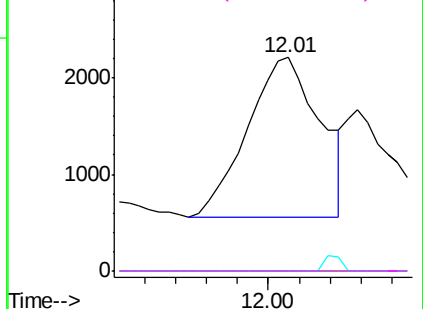


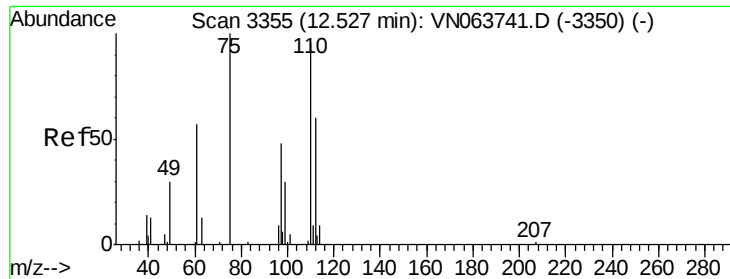
Abundance Ion 43.00 (42.70 to 43.70): V

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

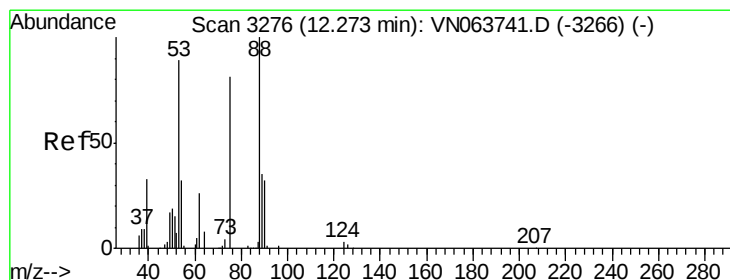
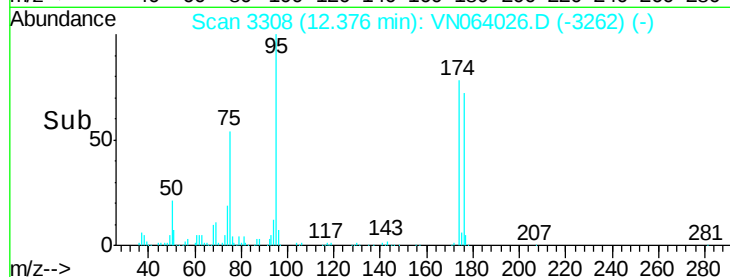
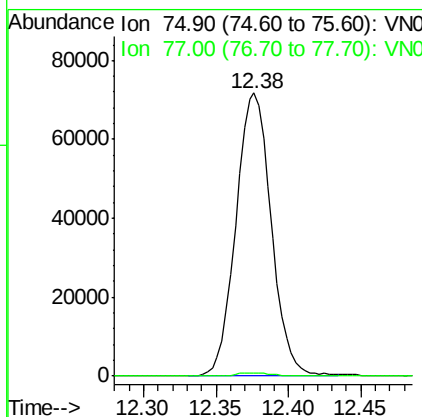
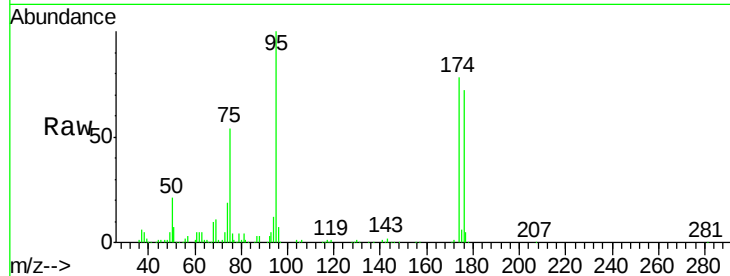




#76
 1,2,3-Trichloropropane
 Concen: 30.246 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

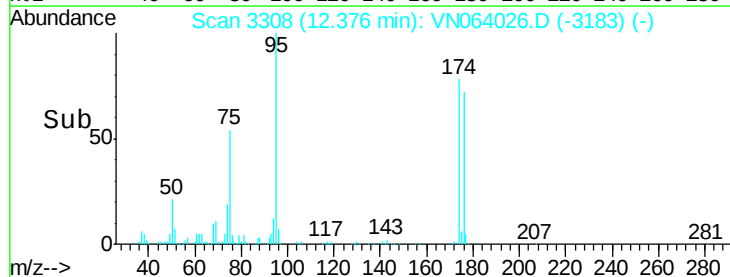
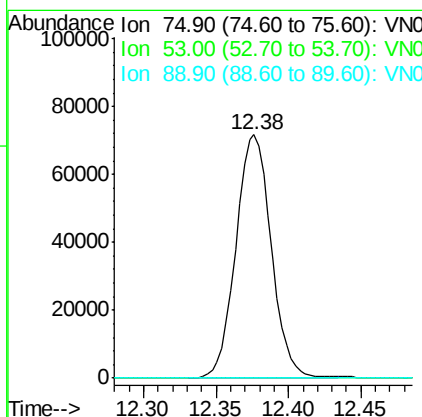
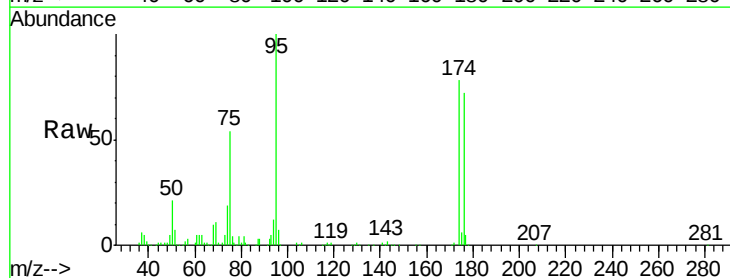
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B10-100720-0-1

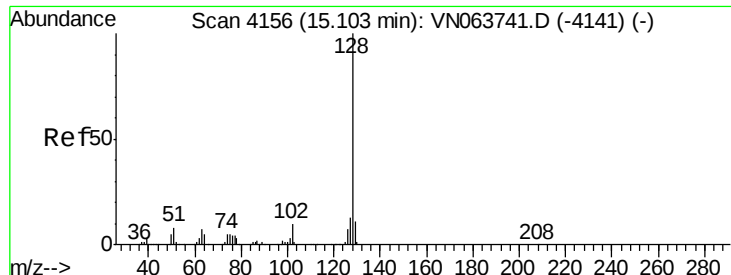
Tgt Ion: 75 Resp: 121516
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.113 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064026.D
 Acq: 9 Oct 2020 7:16

Tgt Ion: 75 Resp: 121516
 Ion Ratio Lower Upper
 75 100
 53 0.2 88.2 132.2#
 89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 2.009 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064026.D

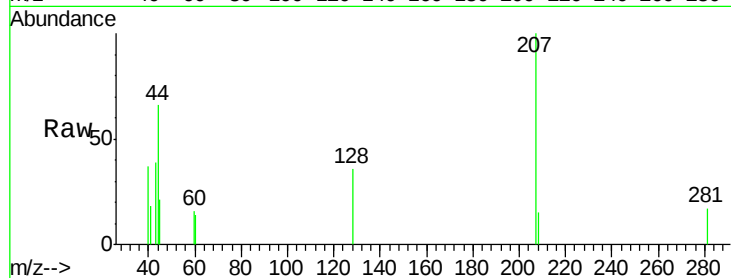
Acq: 9 Oct 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

PAV-B10-100720-0-1



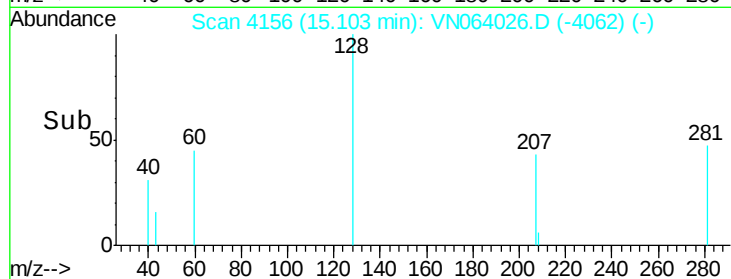
Tgt Ion:128 Resp: 866

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->

15.10

15.15