

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060920\
 Data File : VN061725.D
 Acq On : 9 Jun 2020 14:50
 Operator : JC/MD
 Sample : L2950-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11939

Quant Time: Jun 10 03:04:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	275487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	474090	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	488985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	213920	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	156225	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
35) Dibromofluoromethane	7.55	113	132107	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	
50) Toluene-d8	10.06	98	584470	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	
62) 4-Bromofluorobenzene	12.38	95	207166	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	

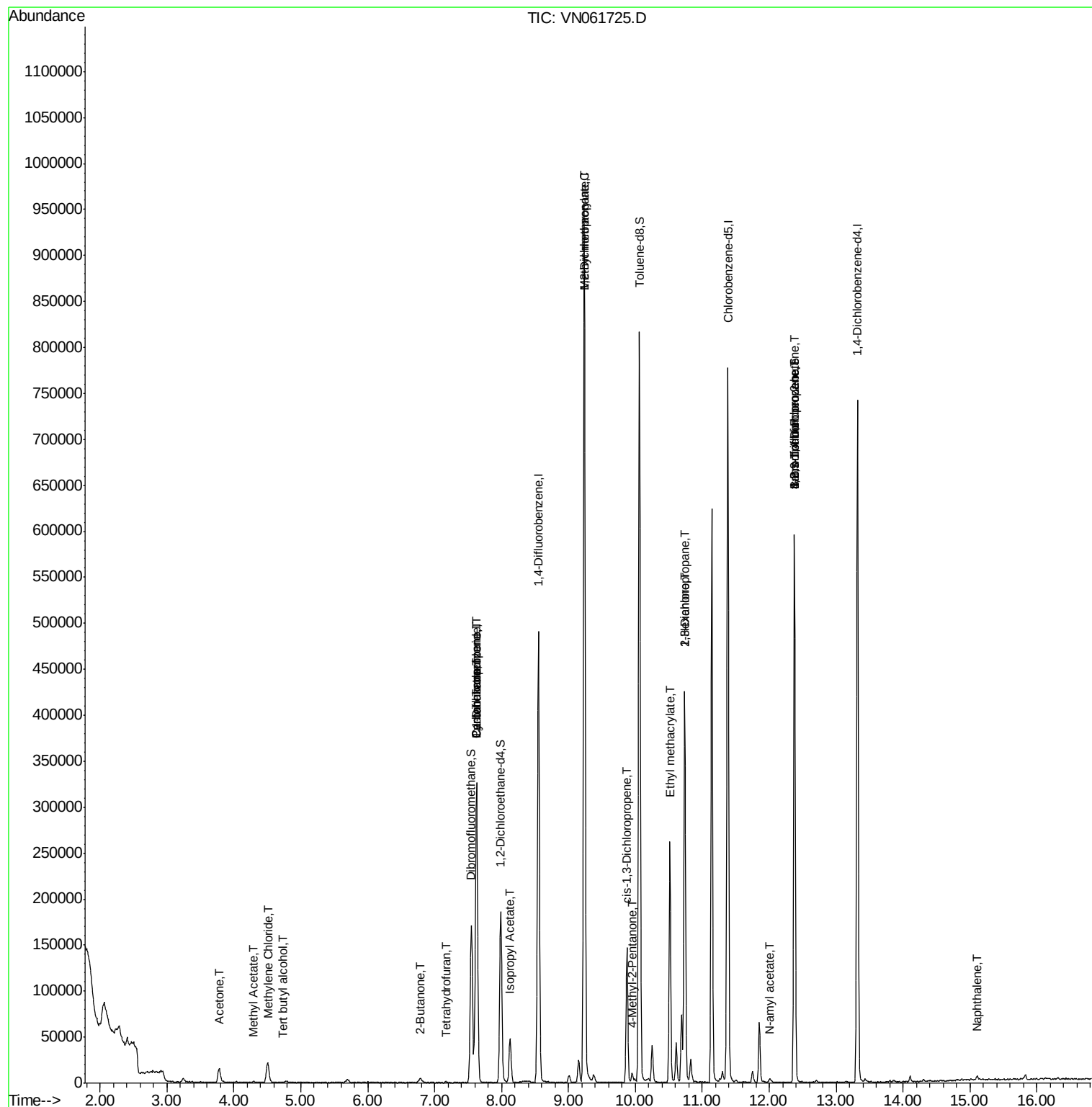
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	233	0.534	ug/l #	72
16) Acetone	3.78	43	25388	22.421	ug/l	96
18) Methyl Acetate	4.28	43	2113	0.711	ug/l #	46
20) Methylene Chloride	4.51	84	17876	4.406	ug/l	95
25) 2-Butanone	6.80	43	4878	3.136	ug/l #	88
29) Tetrahydrofuran	7.16	42	379	0.369	ug/l #	89
31) Cyclohexane	7.63	56	4983	1.077	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	18800	4.479	ug/l #	49
38) Carbon Tetrachloride	7.63	117	27136	6.703	ug/l #	15
43) Isopropyl Acetate	8.13	43	53266	8.759	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1320	0.429	ug/l #	44
48) Methyl methacrylate	9.24	41	85195	31.136	ug/l #	33
51) 4-Methyl-2-Pentanone	9.95	43	5768	1.683	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	29705	5.489	ug/l #	63
56) Ethyl methacrylate	10.51	69	1183	0.251	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4691	0.871	ug/l #	42
59) 2-Hexanone	10.74	43	52821	21.461	ug/l #	50
71) Bromoform	12.38	173	2035	0.698	ug/l #	1
74) N-amyl acetate	12.00	43	2473	0.503	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	101025	25.971	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	101025	66.415	ug/l #	15
95) Naphthalene	15.11	128	4458	0.371	ug/l #	96

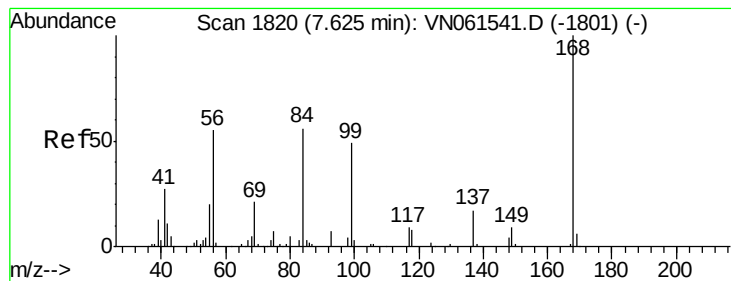
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

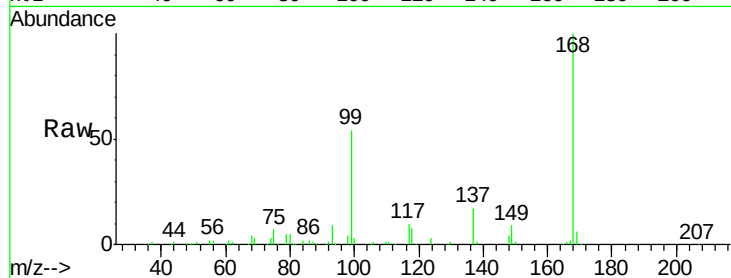
72-11939

Tot Ion:168 Resp: 275487

Ion Ratio Lower Upper

168 100

99 54.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

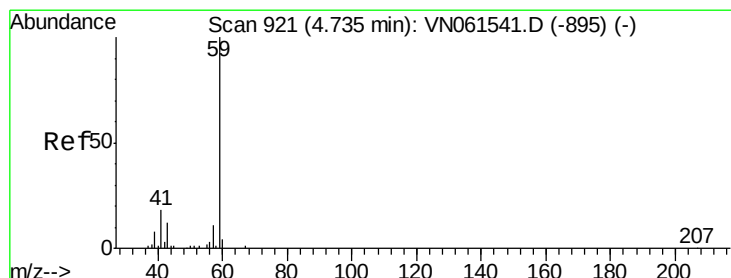
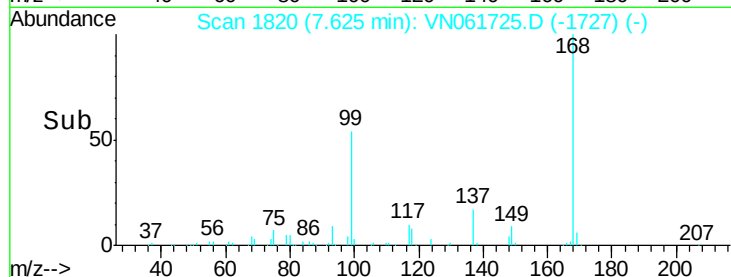
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.534 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN061725.D

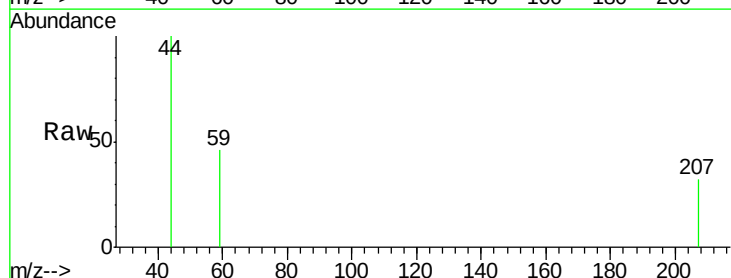
Acq: 9 Jun 2020 14:50

Tgt Ion: 59 Resp: 233

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

250

200

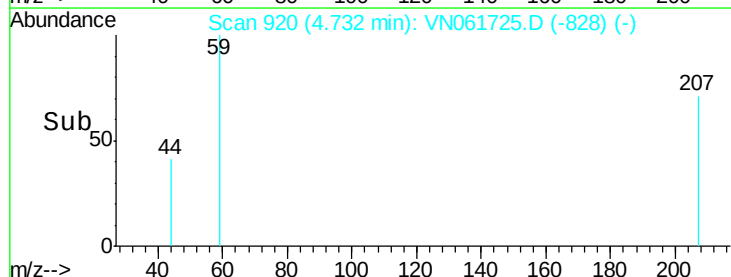
150

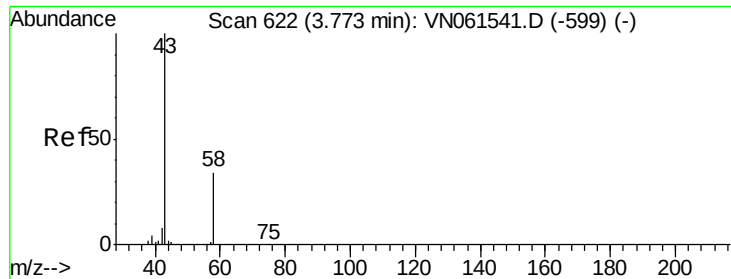
100

50

0

Time--> 4.71 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 22.421 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

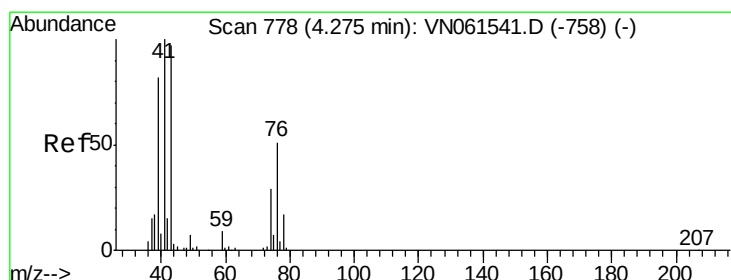
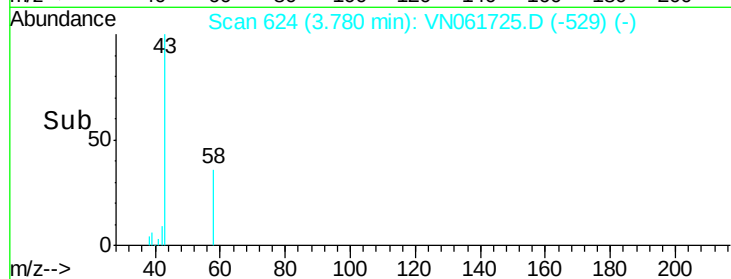
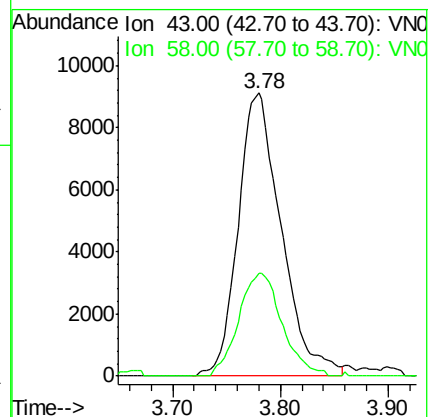
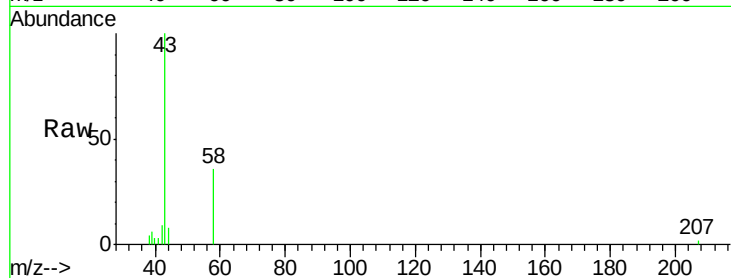
72-11939

Tot Ion: 43 Resp: 25388

Ion Ratio Lower Upper

43 100

58 36.3 27.2 40.8



#18

Methyl Acetate

Concen: 0.711 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.01 min

Lab File: VN061725.D

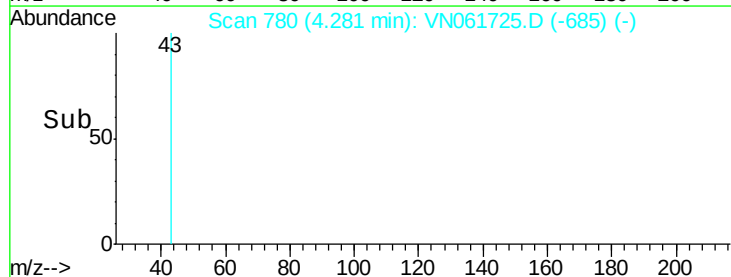
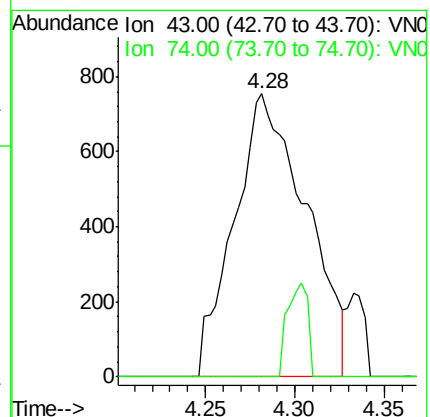
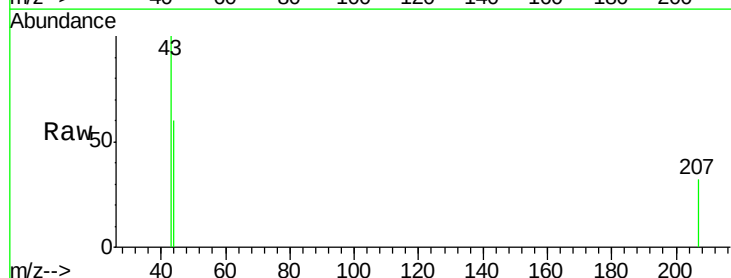
Acq: 9 Jun 2020 14:50

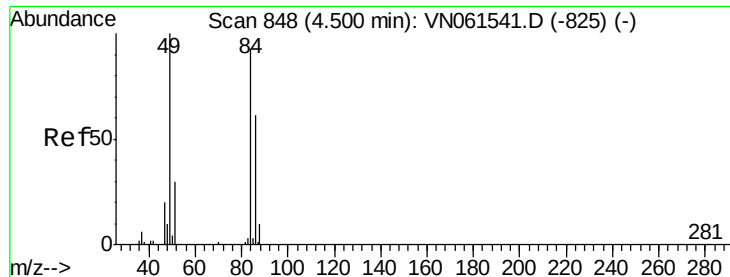
Tgt Ion: 43 Resp: 2113

Ion Ratio Lower Upper

43 100

74 0.0 23.2 34.8#





#20

Methvlene Chloride

Concen: 4.406 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

72-11939

Tot Ion: 84 Resp: 17876

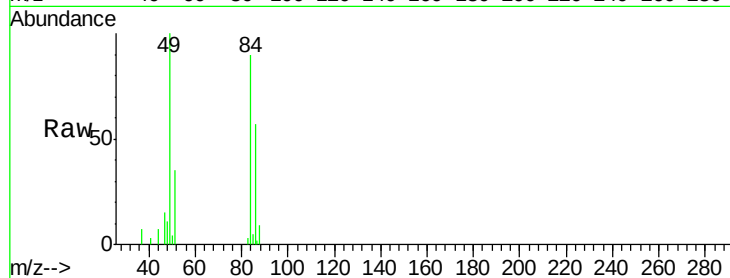
Ion Ratio Lower Upper

84 100

49 110.6 85.8 128.8

51 39.2 26.2 39.2

86 62.5 52.6 78.8

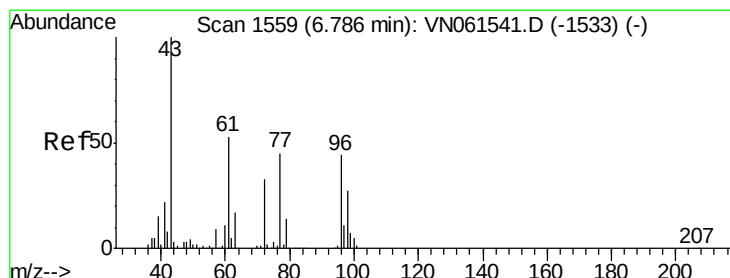
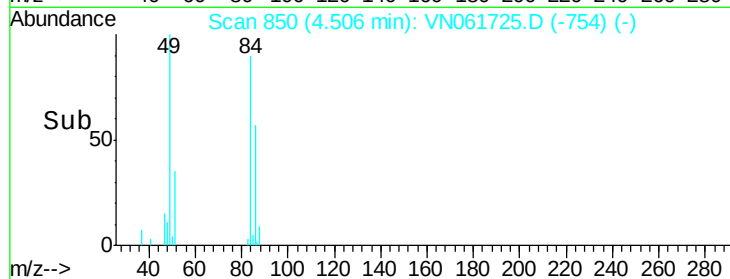
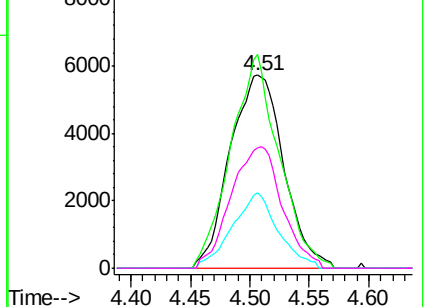


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 3.136 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN061725.D

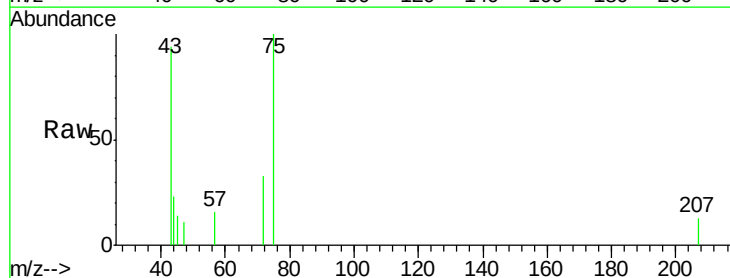
Acq: 9 Jun 2020 14:50

Tgt Ion: 43 Resp: 4878

Ion Ratio Lower Upper

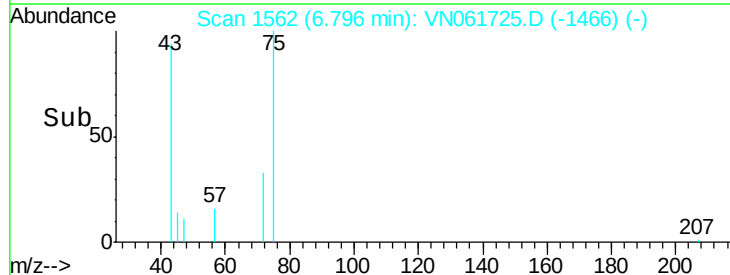
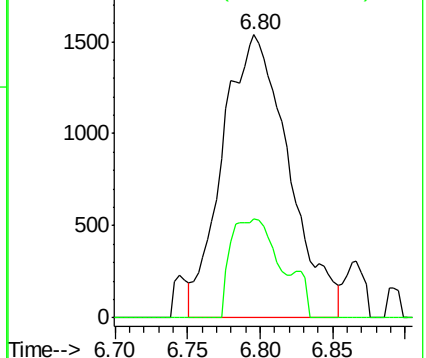
43 100

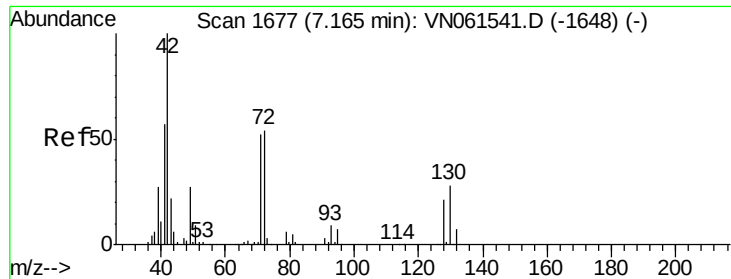
72 39.4 26.0 39.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

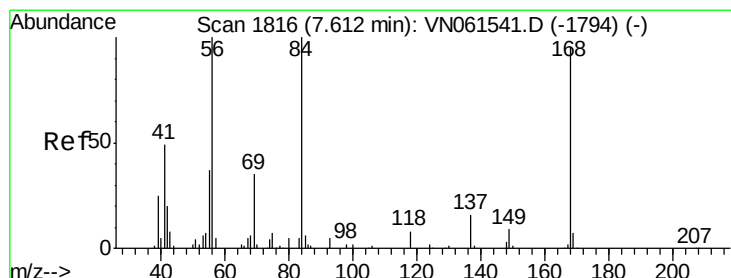
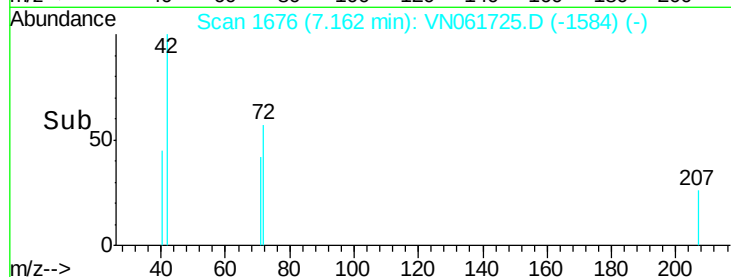
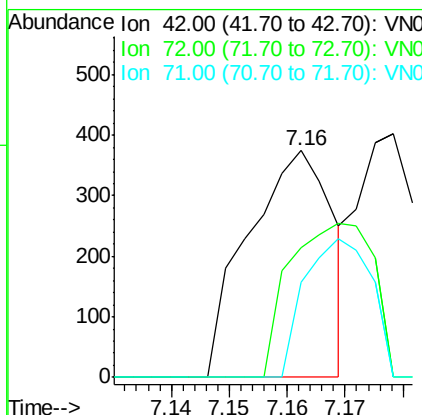
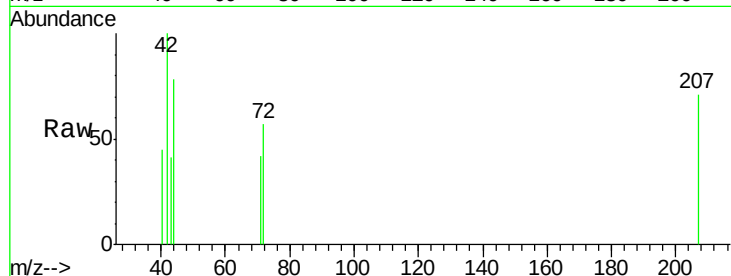




#29
Tetrahydrofuran
Concen: 0.369 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

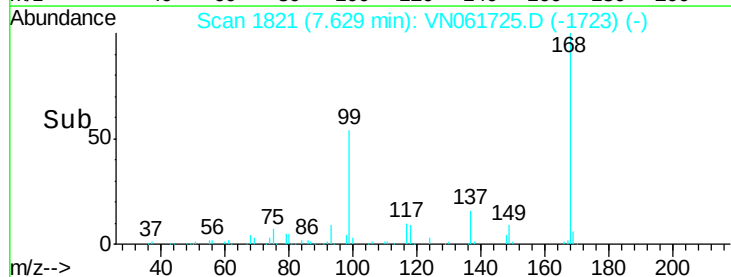
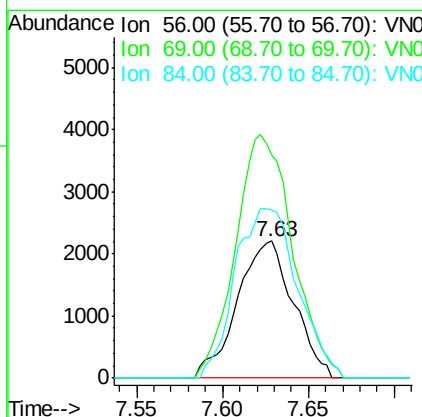
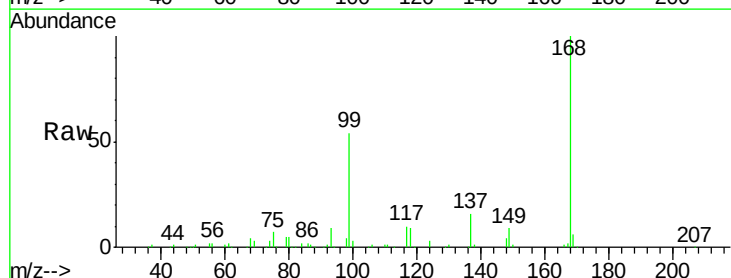
Instrument :
MSVOA_N
ClientSampled :
72-11939

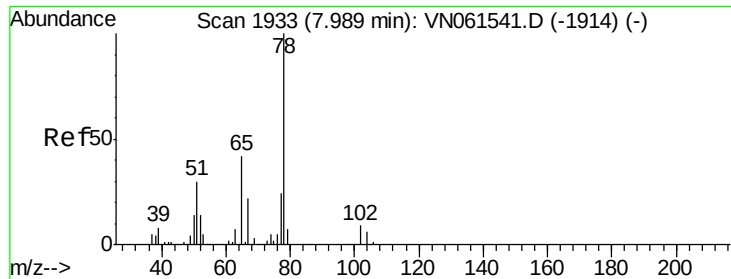
Tot Ion: 42 Resp: 379
Ion Ratio Lower Upper
42 100
72 67.5 43.6 65.4#
71 48.5 41.2 61.8



#31
Cyclohexane
Concen: 1.077 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

Tgt Ion: 56 Resp: 4983
Ion Ratio Lower Upper
56 100
69 163.2 27.8 41.8#
84 122.9 79.9 119.9#

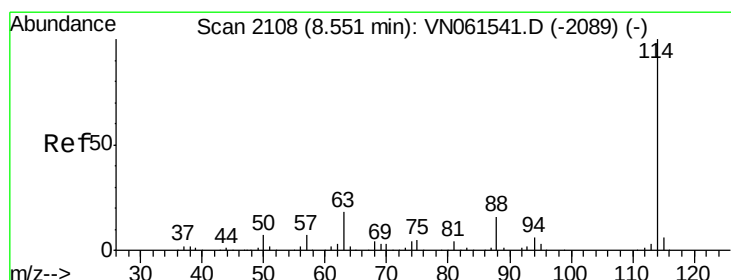
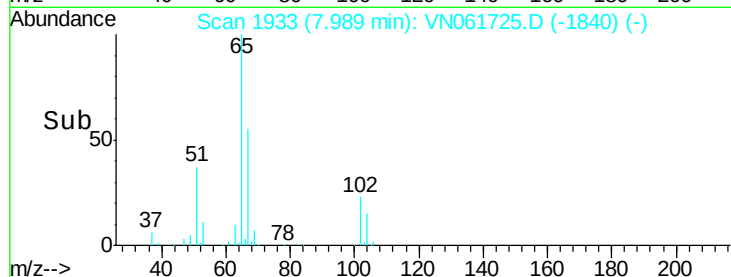
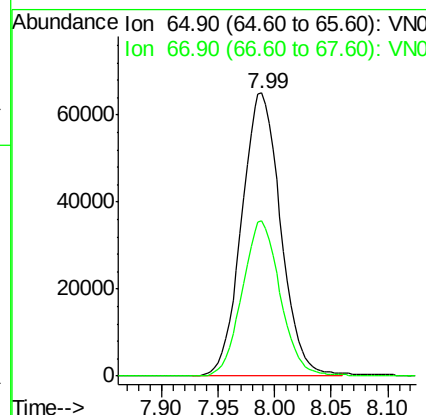
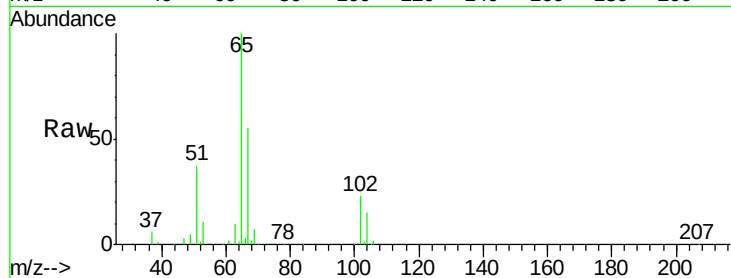




#33
 1,2-Dichloroethane-d4
 Concen: 47.597 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061725.D
 Acq: 9 Jun 2020 14:50

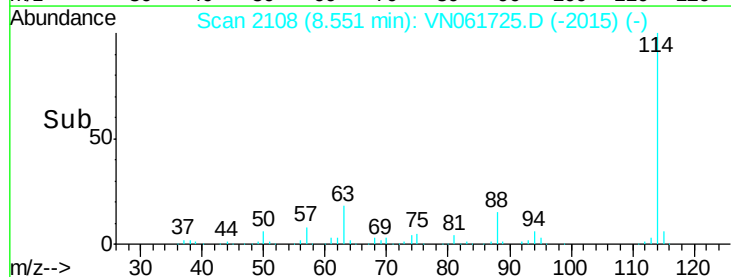
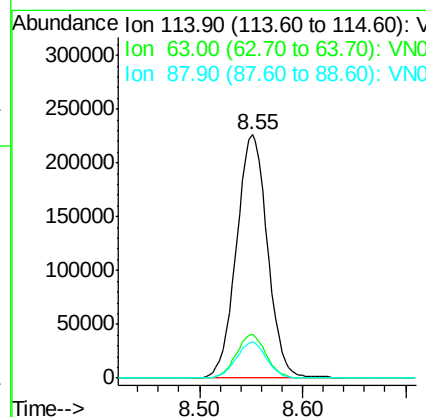
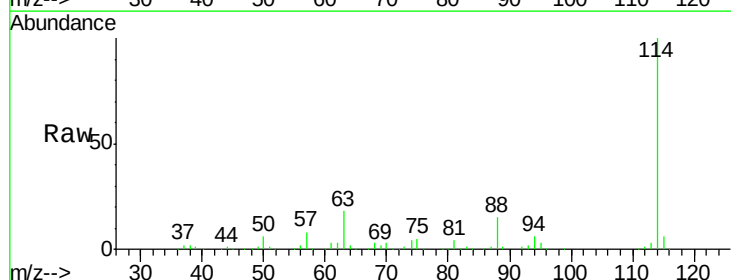
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11939

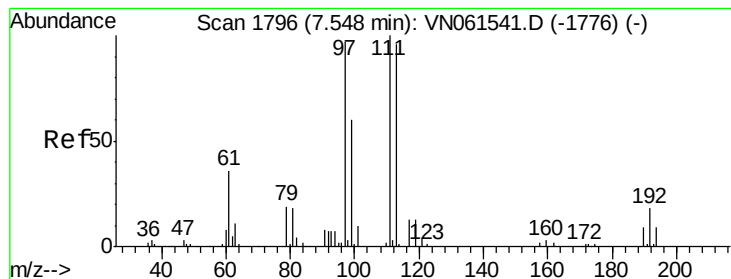
Tot Ion: 65 Resp: 156225
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061725.D
 Acq: 9 Jun 2020 14:50

Tgt Ion: 114 Resp: 474090
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.8
 88 14.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 54.931 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

72-11939

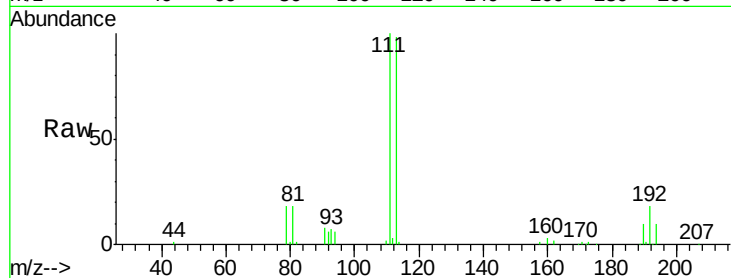
Tot Ion:113 Resp: 132107

Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.0

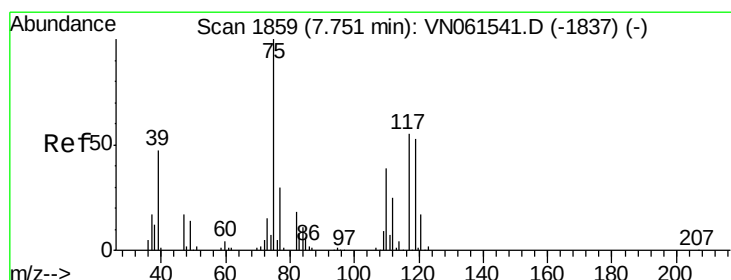
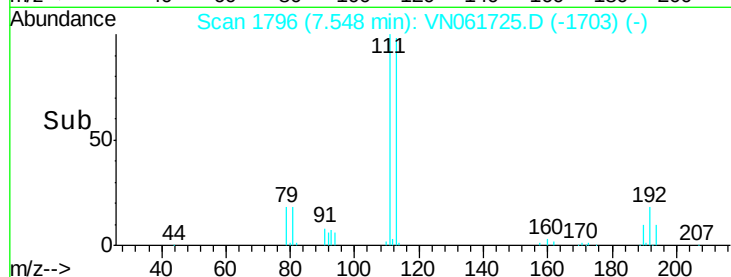
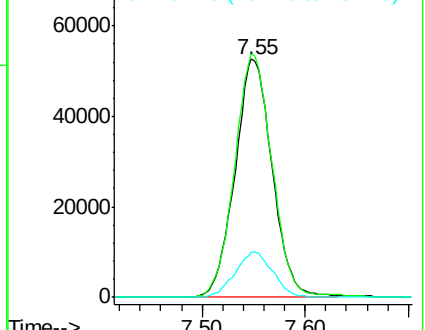
192 19.1 15.4 23.2



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: 4.479 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

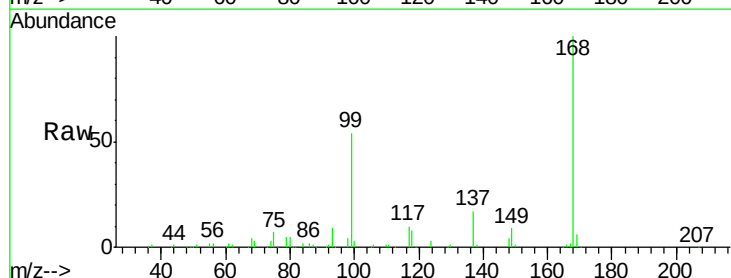
Tgt Ion: 75 Resp: 18800

Ion Ratio Lower Upper

75 100

110 9.9 19.5 58.5#

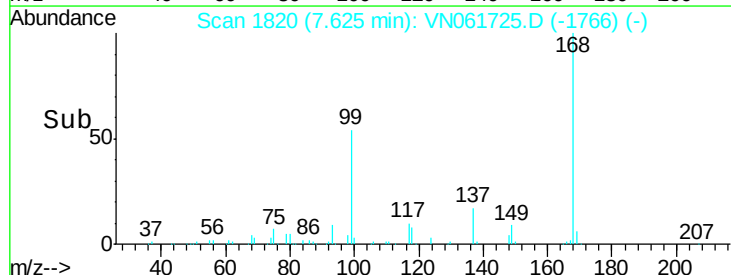
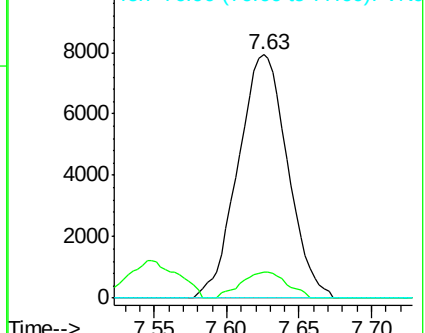
77 0.0 24.7 37.1#

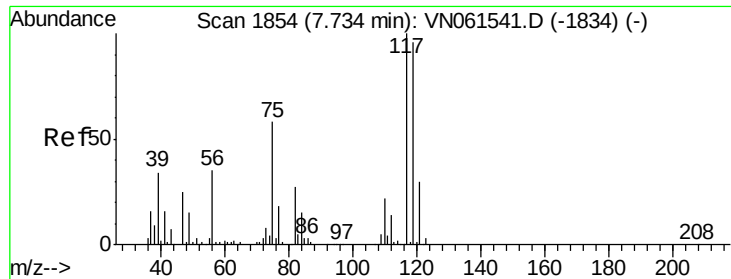


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.703 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

72-11939

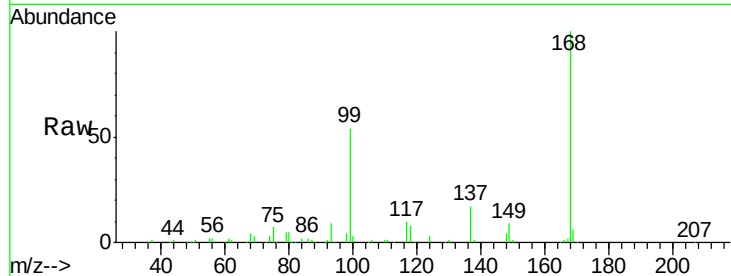
Tot Ion:117 Resp: 27136

Ion Ratio Lower Upper

117 100

119 4.1 76.5 114.7#

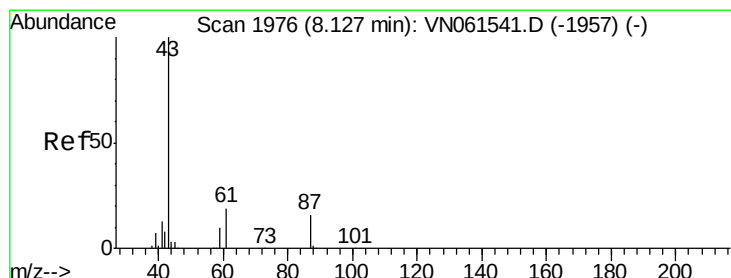
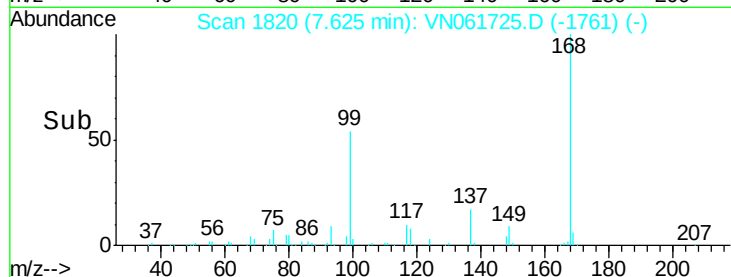
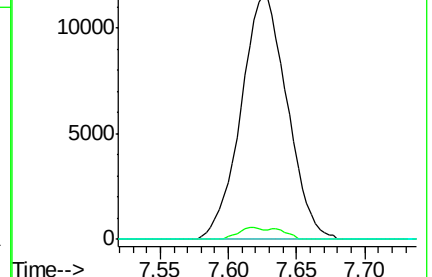
121 0.0 24.1 36.1#



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: 8.759 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

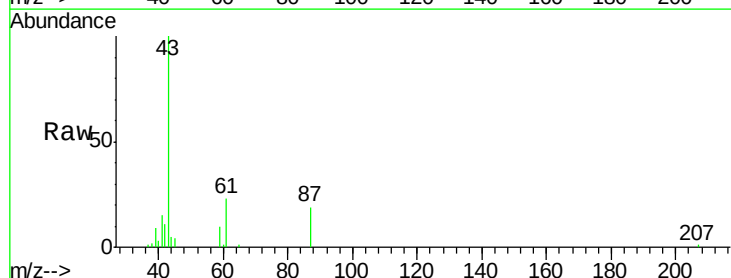
Tgt Ion: 43 Resp: 53266

Ion Ratio Lower Upper

43 100

61 22.3 23.6 35.4#

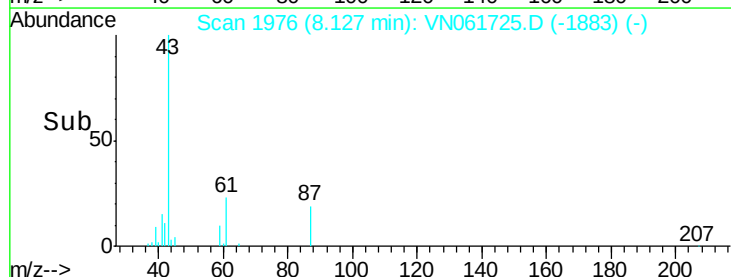
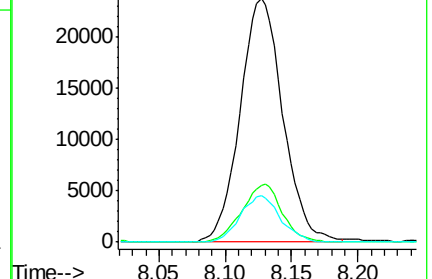
87 17.8 13.0 19.6

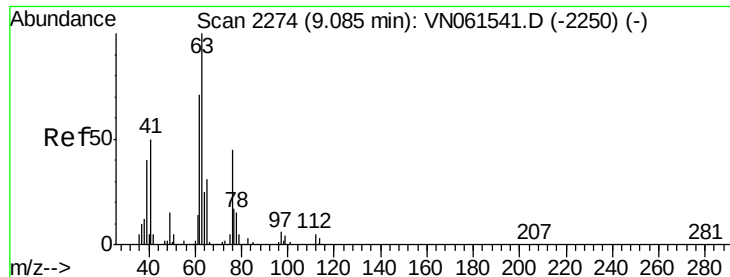


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.429 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

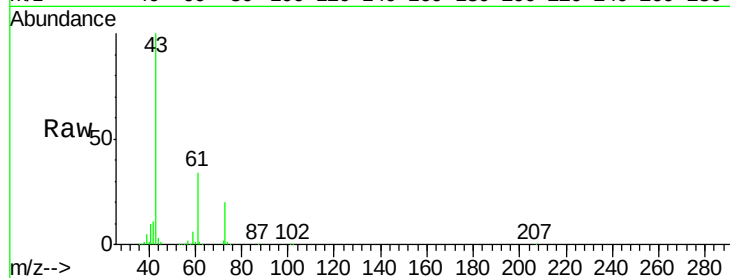
72-11939

Tot Ion: 63 Resp: 1320

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

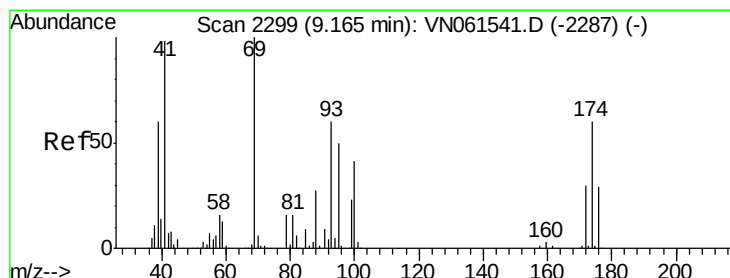
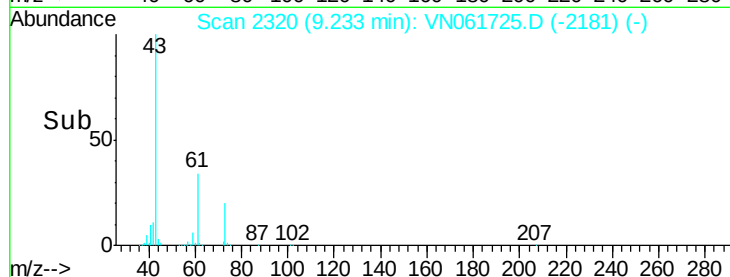
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 31.136 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

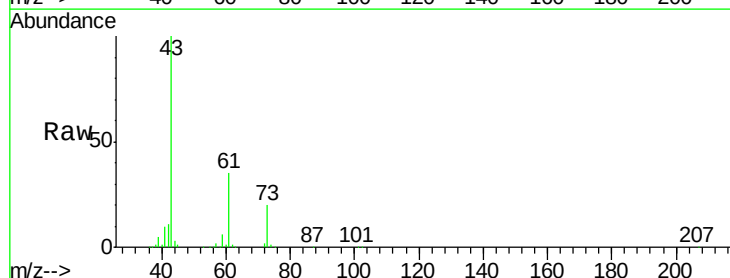
Tgt Ion: 41 Resp: 85195

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

39 56.8 52.1 78.1



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.24

60000

50000

40000

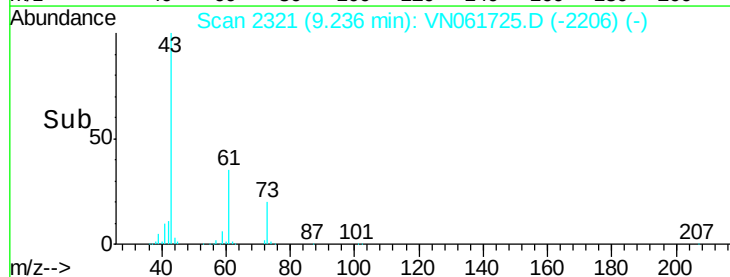
30000

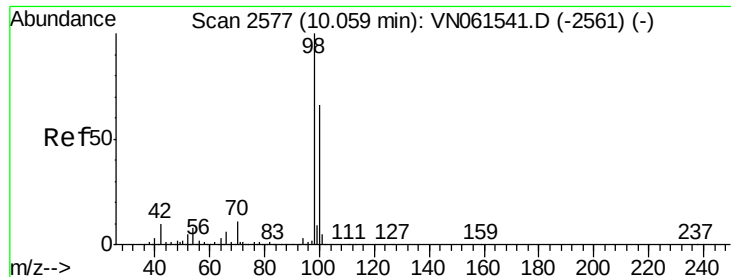
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.443 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

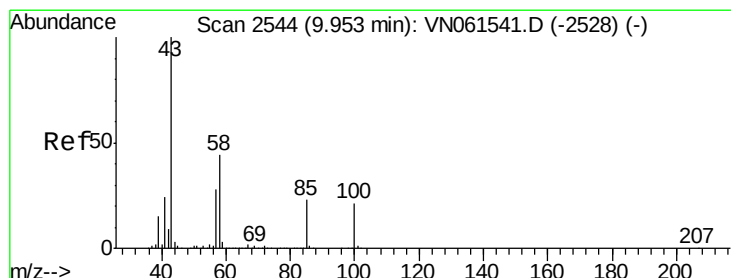
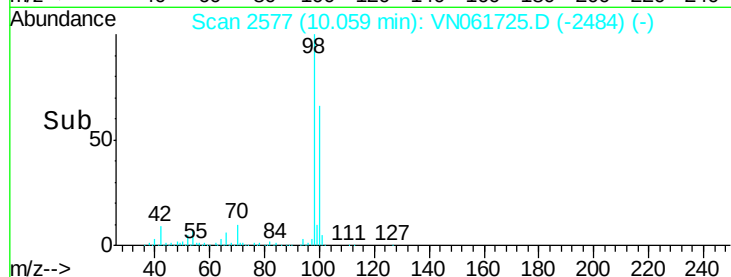
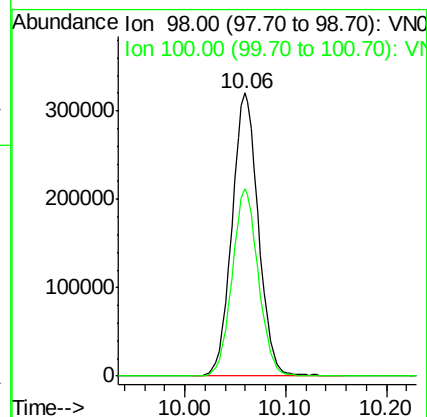
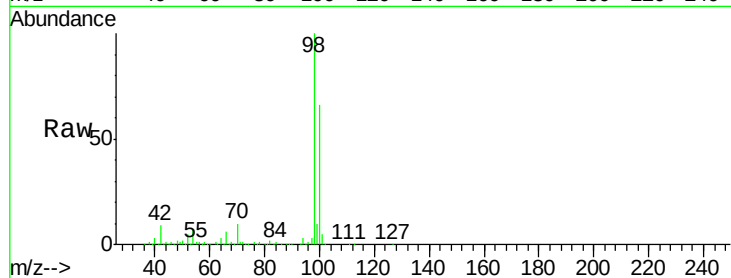
72-11939

Tot Ion: 98 Resp: 584470

Ion Ratio Lower Upper

98 100

100 65.4 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.683 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061725.D

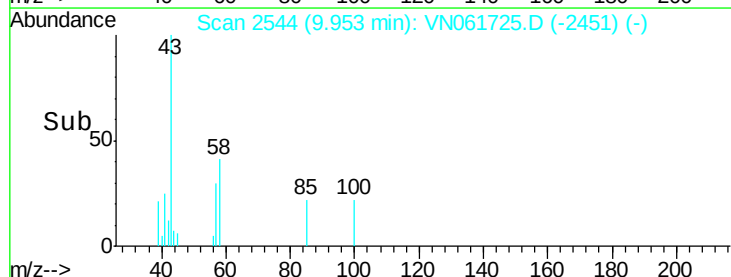
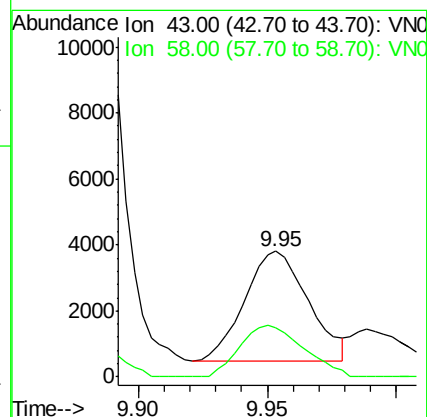
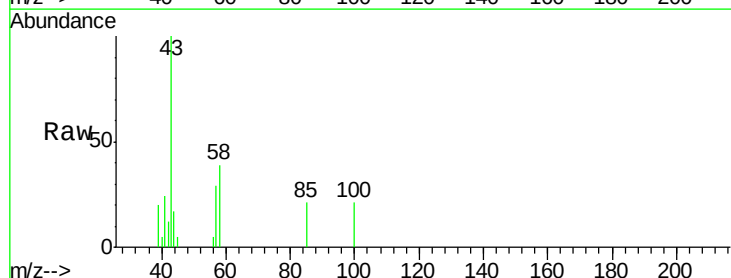
Acq: 9 Jun 2020 14:50

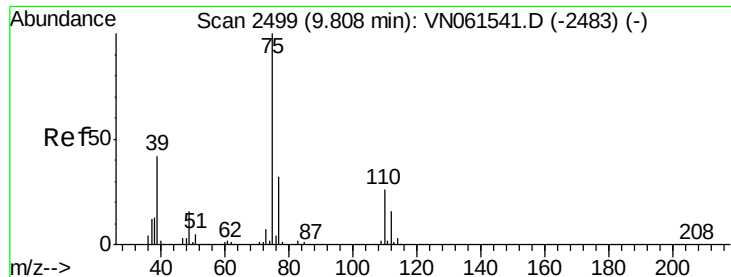
Tgt Ion: 43 Resp: 5768

Ion Ratio Lower Upper

43 100

58 46.7 35.0 52.6





#54

cis-1,3-Dichloropropene

Concen: 5.489 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

72-11939

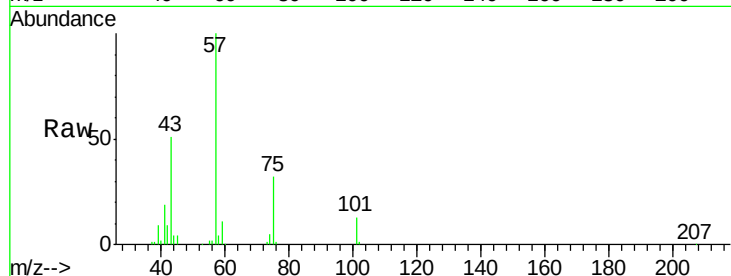
Tot Ion: 75 Resp: 29705

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

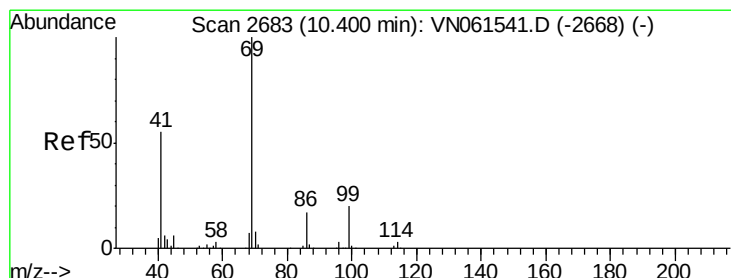
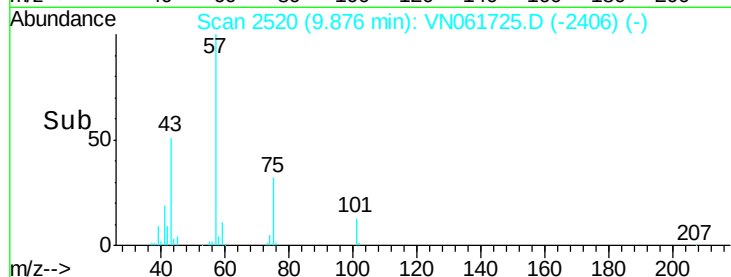
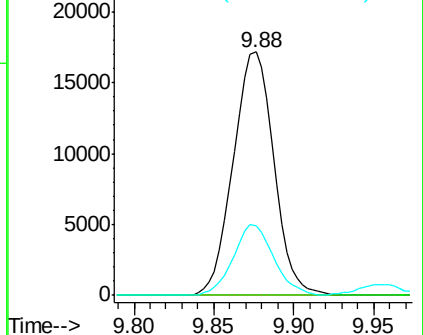
39 28.6 33.8 50.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.251 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

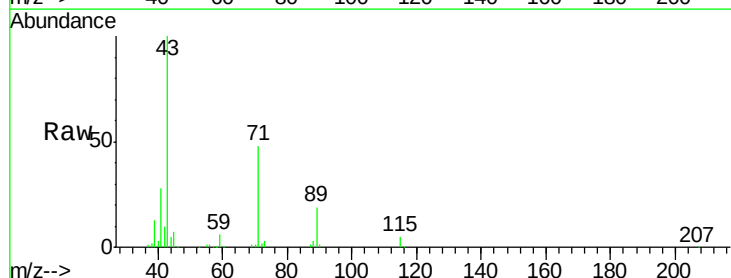
Tgt Ion: 69 Resp: 1183

Ion Ratio Lower Upper

69 100

41 3957.1 43.5 65.3#

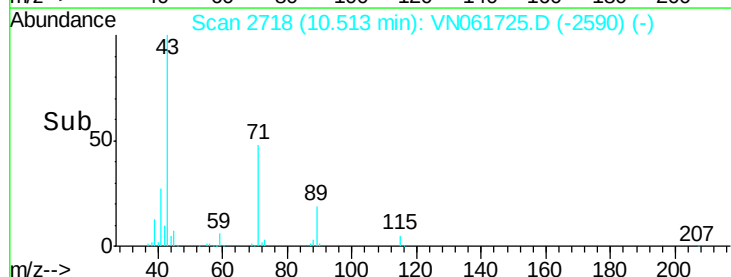
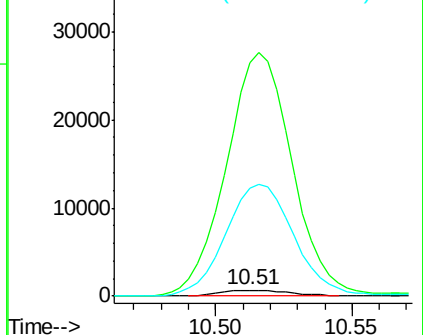
39 1874.0 27.0 40.6#

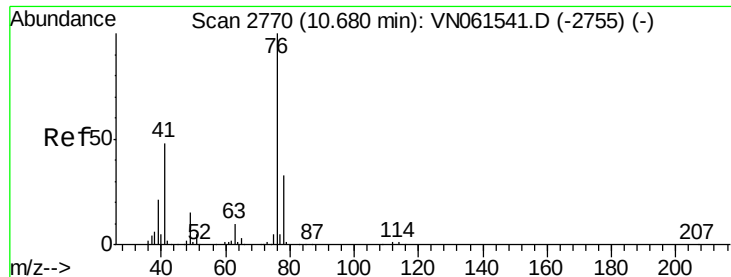


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

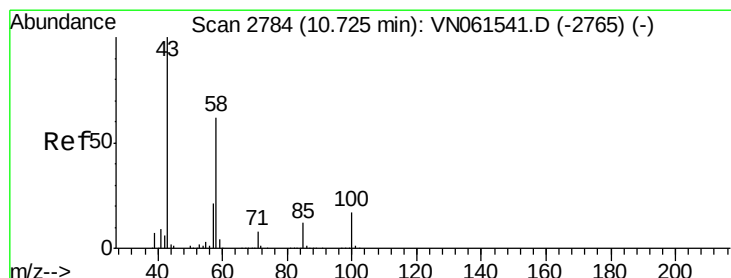
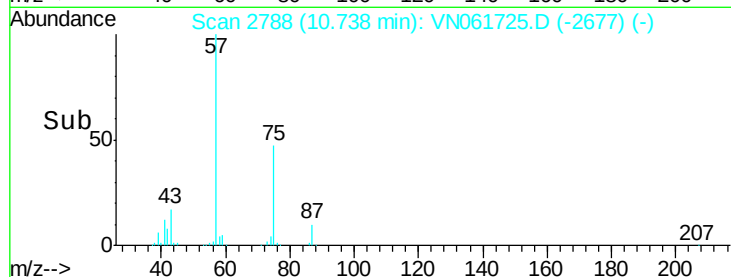
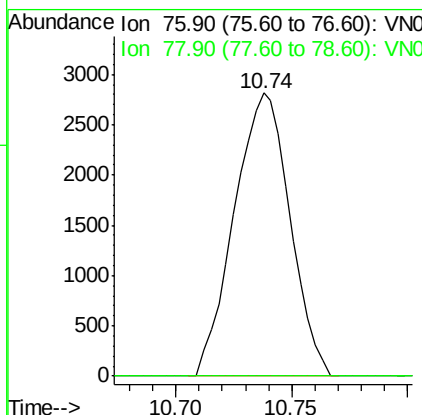
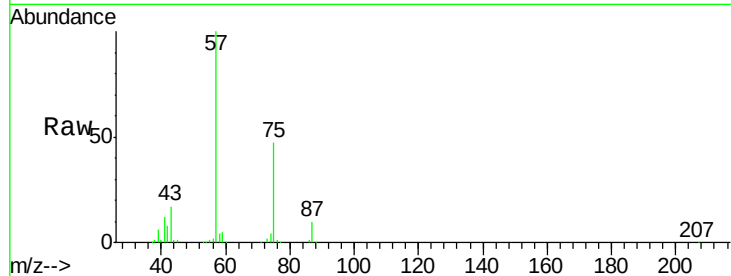




#57
 1,3-Dichloropropane
 Concen: 0.871 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061725.D
 Acq: 9 Jun 2020 14:50

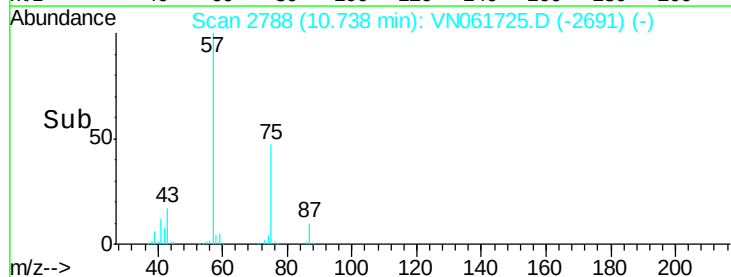
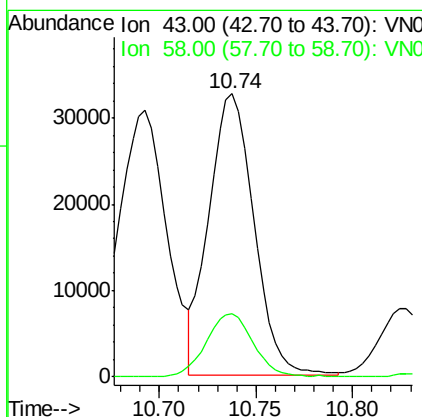
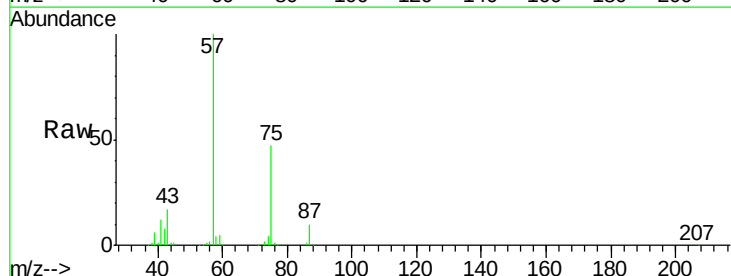
Instrument :
 MSVOA_N
 ClientSampled :
 72-11939

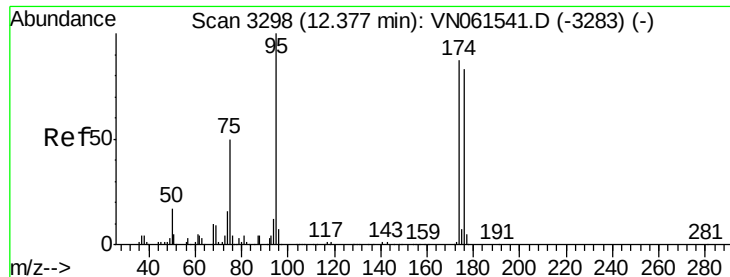
Tot Ion: 76 Resp: 4691
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 21.461 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061725.D
 Acq: 9 Jun 2020 14:50

Tgt Ion: 43 Resp: 52821
 Ion Ratio Lower Upper
 43 100
 58 23.4 30.7 92.1#

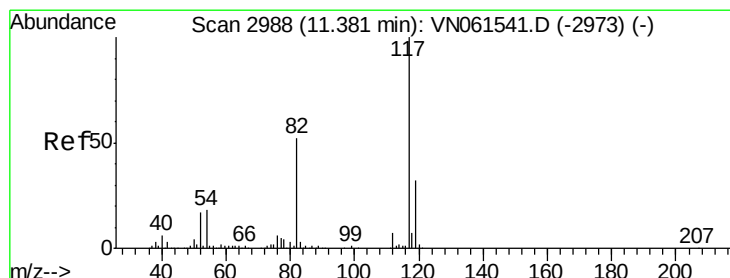
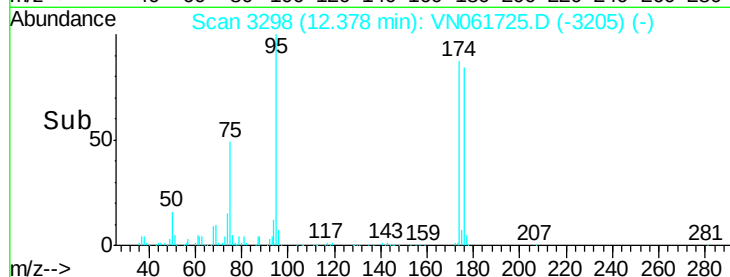
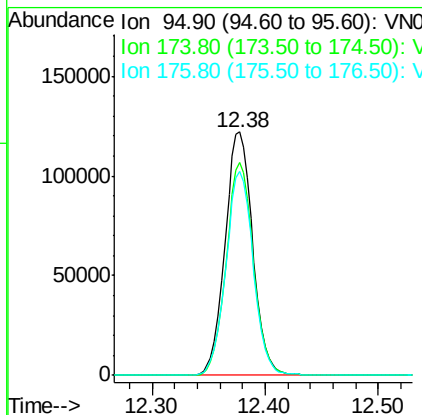
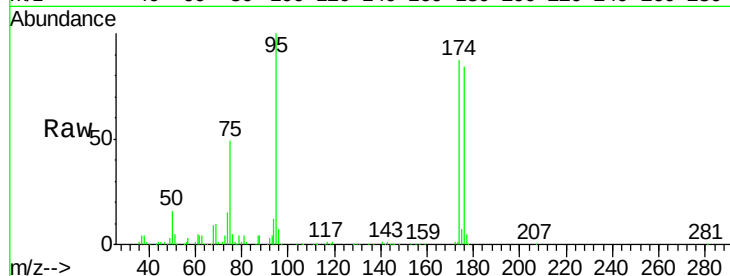




#62
4-Bromofluorobenzene
Concen: 50.950 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

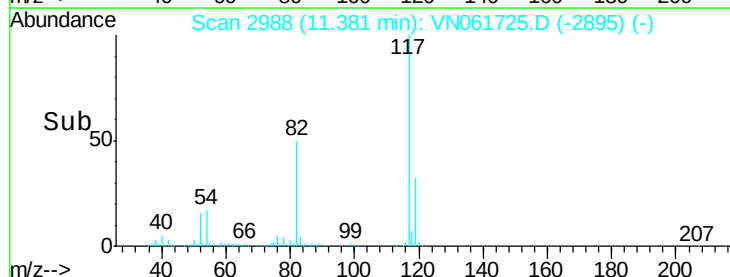
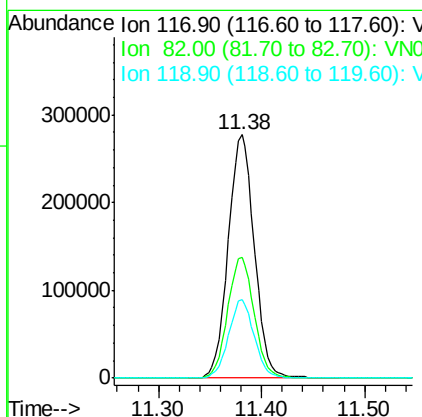
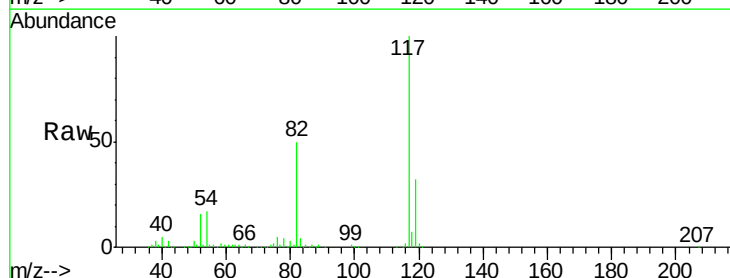
Instrument :
MSVOA_N
ClientSampleId :
72-11939

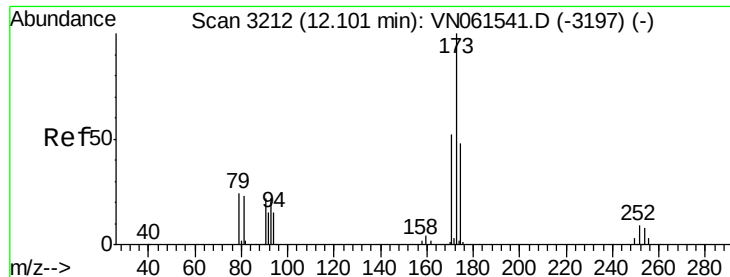
Tot Ion: 95 Resp: 207166
Ion Ratio Lower Upper
95 100
174 86.4 0.0 172.8
176 83.2 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

Tgt Ion: 117 Resp: 488985
Ion Ratio Lower Upper
117 100
82 49.6 41.5 62.3
119 32.2 25.6 38.4





#71

Bromoform

Concen: 0.698 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampled :

72-11939

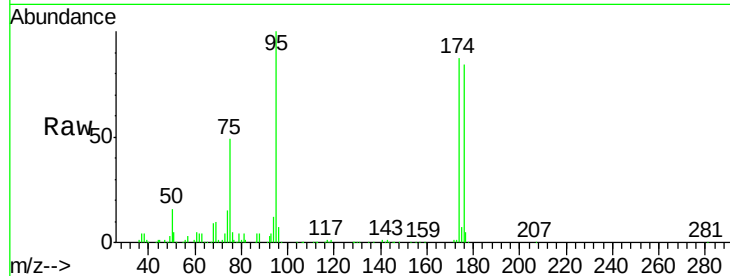
Tot Ion:173 Resp: 2035

Ion Ratio Lower Upper

173 100

175 567.5 24.4 73.2#

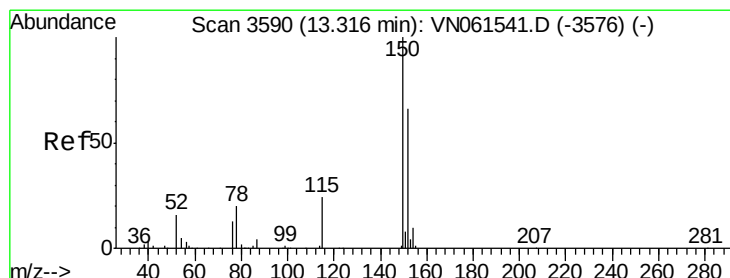
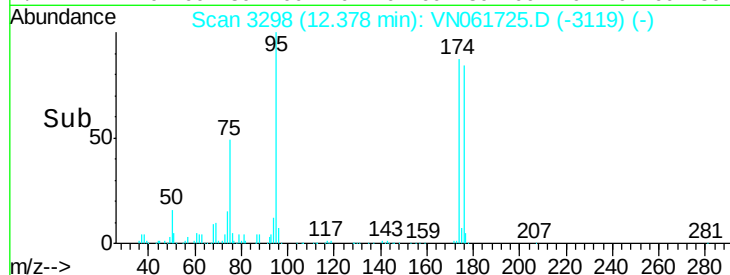
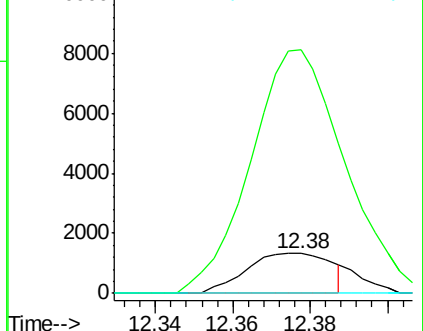
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

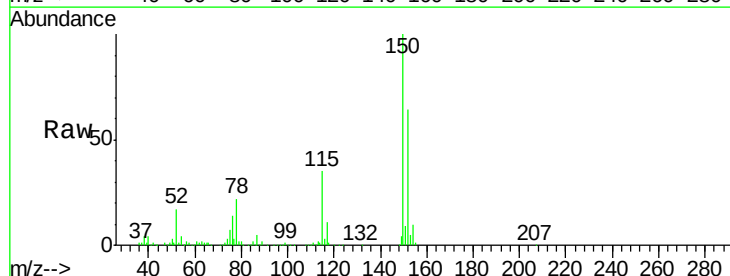
Tgt Ion:152 Resp: 213920

Ion Ratio Lower Upper

152 100

115 56.6 28.0 84.0

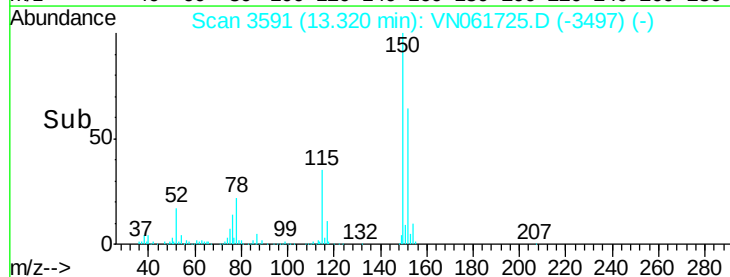
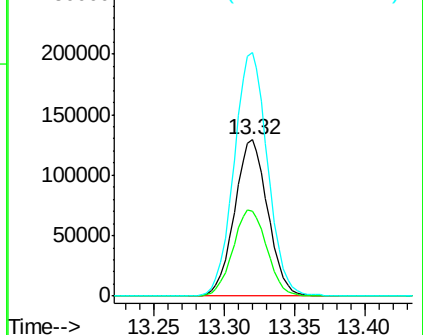
150 157.8 0.0 344.0

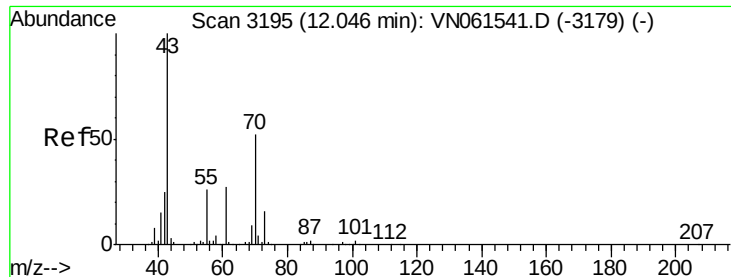


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.503 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061725.D

Acq: 9 Jun 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

72-11939

Tot Ion: 43 Resp: 2473

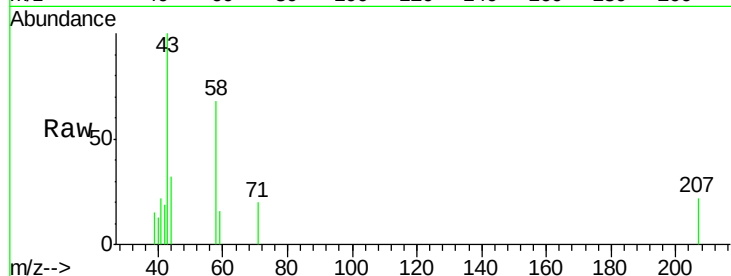
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

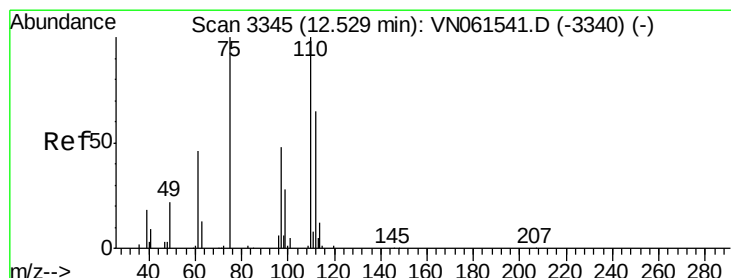
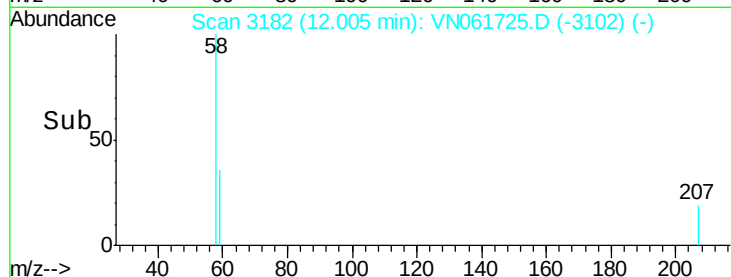
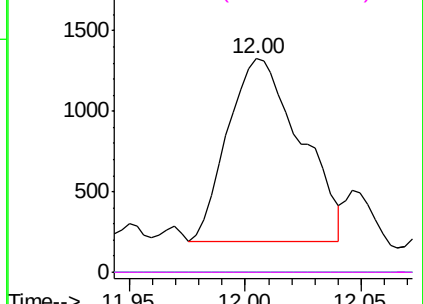


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.971 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061725.D

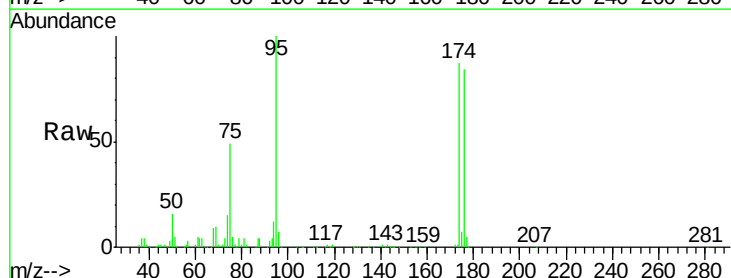
Acq: 9 Jun 2020 14:50

Tgt Ion: 75 Resp: 101025

Ion Ratio Lower Upper

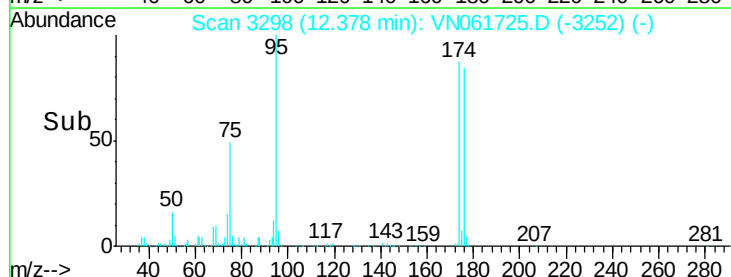
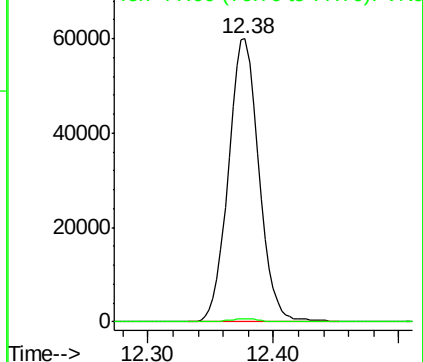
75 100

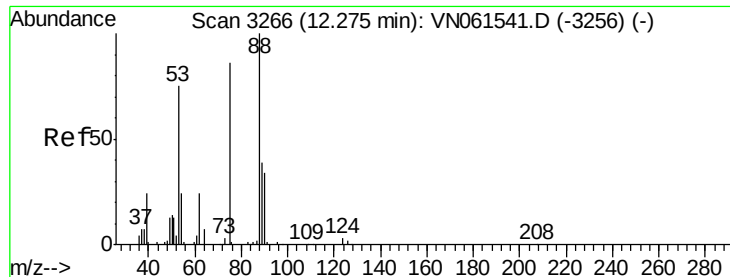
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

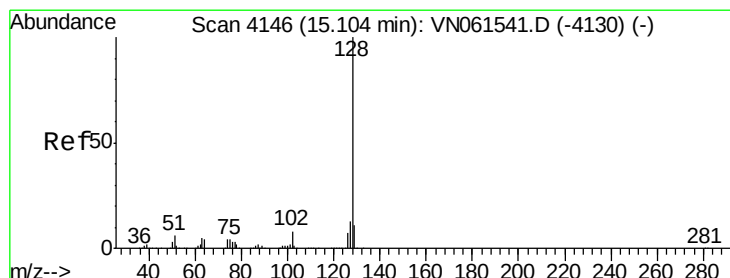
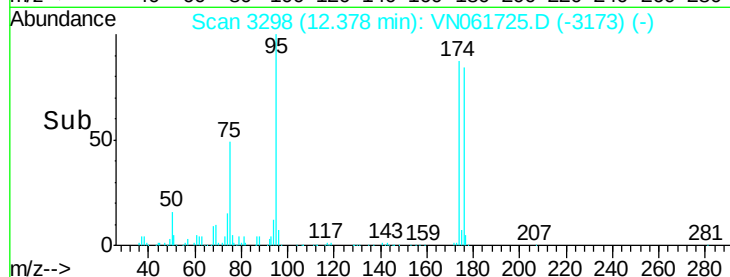
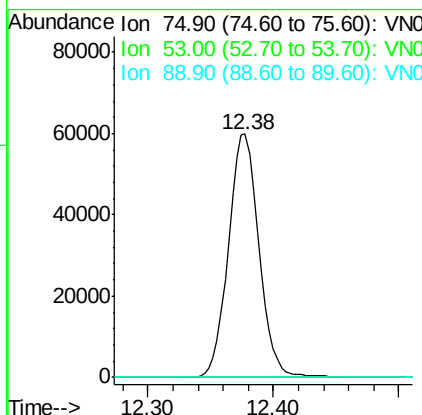
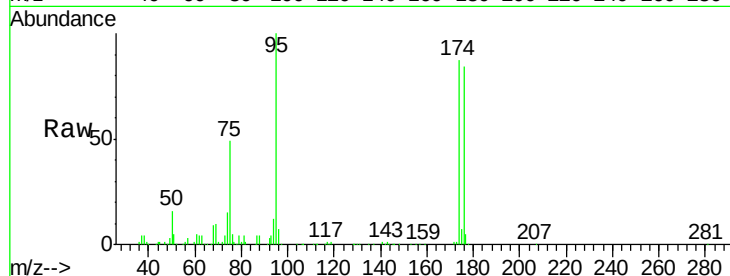




#81
trans-1,4-Dichloro-2-butene
Concen: 66.415 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

Instrument :
MSVOA_N
ClientSampleId :
72-11939

Tot Ion: 75 Resp: 101025
Ion Ratio Lower Upper
75 100
53 0.0 67.8 101.8#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.371 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN061725.D
Acq: 9 Jun 2020 14:50

Tgt Ion: 128 Resp: 4458
Ion Ratio Lower Upper
128 100
127 9.6 10.0 15.0#
129 10.6 8.5 12.7

