

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062960.D
 Acq On : 15 Aug 2020 2:11
 Operator : JC/MD
 Sample : L3659-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-3

Quant Time: Aug 17 09:33:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	137744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	249170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	348873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	123127	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	116143	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
35) Dibromofluoromethane	7.55	113	85345	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	10.06	98	359007	53.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.90%	
62) 4-Bromofluorobenzene	12.38	95	172683	68.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.34%	

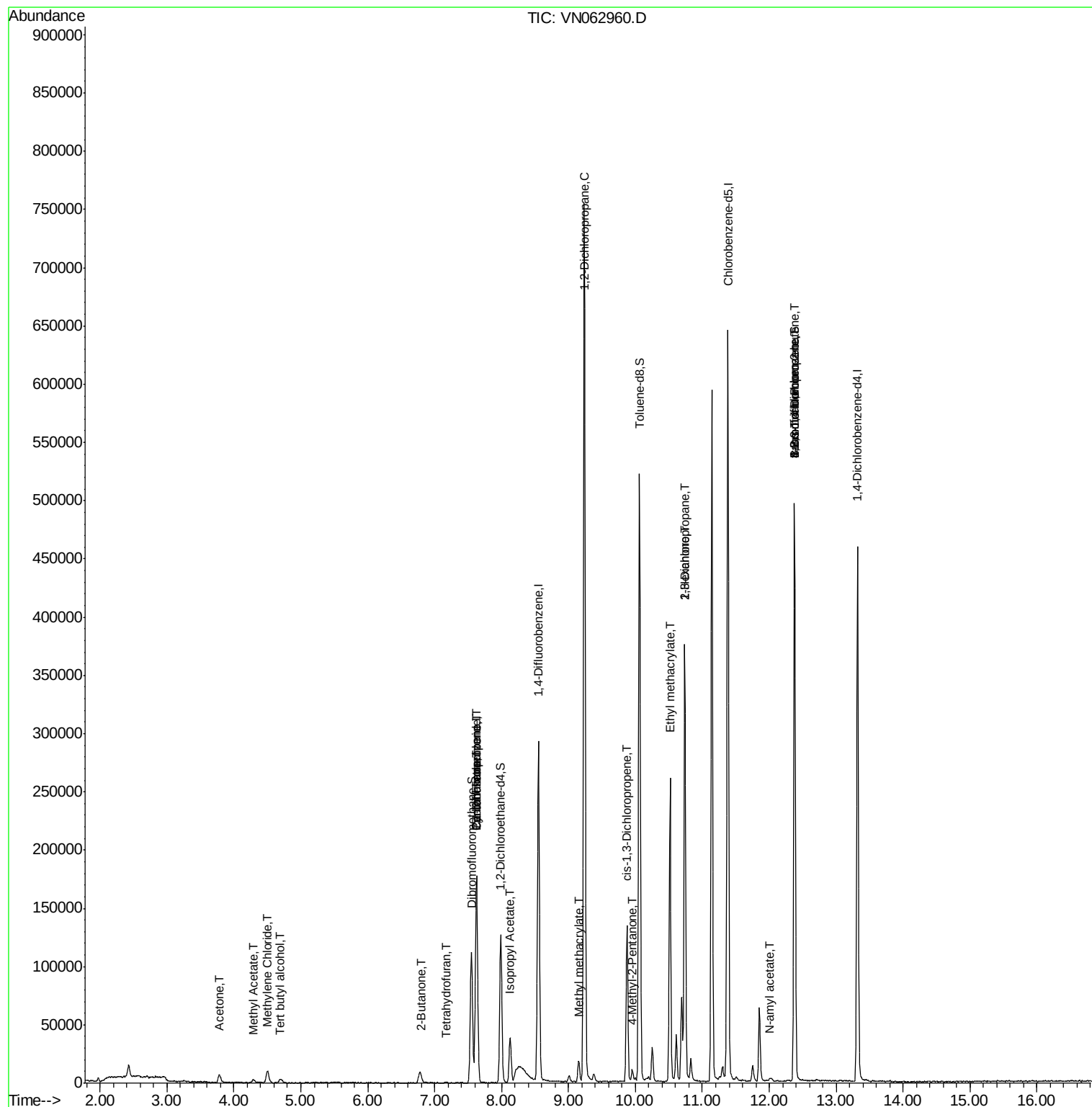
Target Compounds					Qvalue
11) Tert butyl alcohol	4.68	59	1395	3.737 ug/l #	72
16) Acetone	3.78	43	12459	15.137 ug/l	99
17) Carbon Disulfide	4.00	76	31	Below Cal #	74
18) Methyl Acetate	4.29	43	4366	1.139 ug/l #	74
20) Methylene Chloride	4.50	84	8079	4.674 ug/l #	85
25) 2-Butanone	6.81	43	2453	2.104 ug/l	90
29) Tetrahydrofuran	7.17	42	311	0.411 ug/l #	33
31) Cyclohexane	7.62	56	2800	1.014 ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11184	4.610 ug/l #	51
38) Carbon Tetrachloride	7.62	117	14827	5.167 ug/l #	14
43) Isopropyl Acetate	8.13	43	45637	10.796 ug/l	99
45) 1,2-Dichloropropane	9.23	63	794	0.405 ug/l #	45
48) Methyl methacrylate	9.15	41	2800	1.347 ug/l #	13
51) 4-Methyl-2-Pentanone	9.96	43	7179	2.625 ug/l	93
54) cis-1,3-Dichloropropene	9.88	75	23195	7.284 ug/l #	64
56) Ethyl methacrylate	10.52	69	1667	0.580 ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3600	1.110 ug/l #	43
59) 2-Hexanone	10.74	43	54305	26.617 ug/l #	52
71) Bromoform	12.38	173	1500	0.626 ug/l #	1
74) N-amyl acetate	12.01	43	1581	0.421 ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	89827	27.051 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	89827	82.581 ug/l #	10

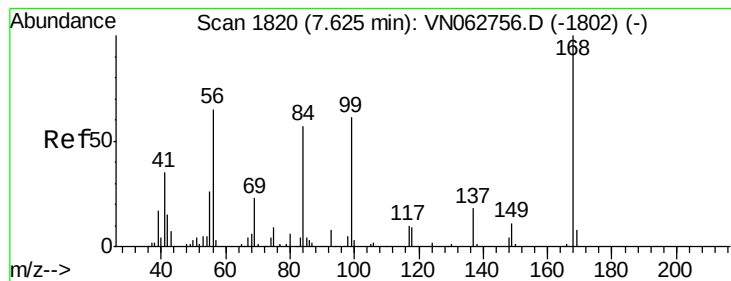
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 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: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampled :

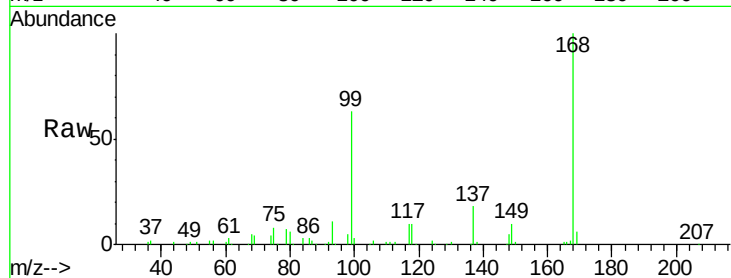
SP1-3

Tgt Ion: 168 Resp: 137744

Ion Ratio Lower Upper

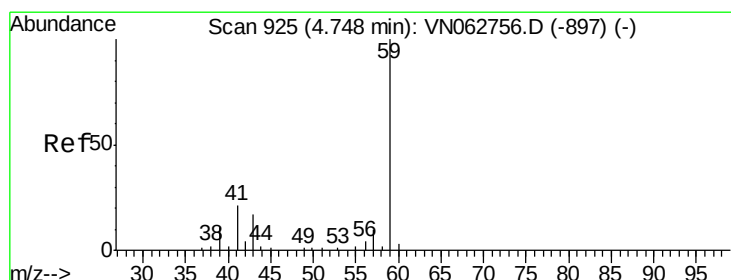
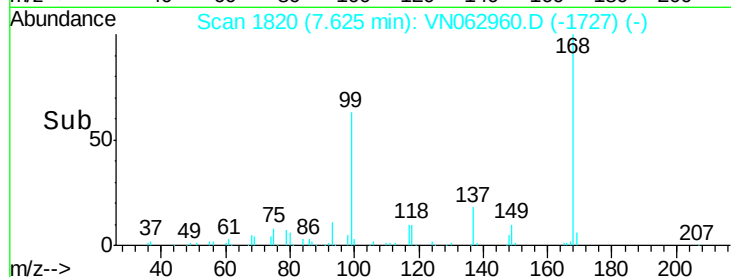
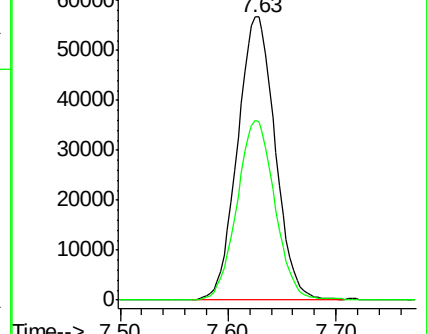
168 100

99 63.4 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 3.737 ug/l

RT: 4.68 min Scan# 904

Delta R.T. -0.07 min

Lab File: VN062960.D

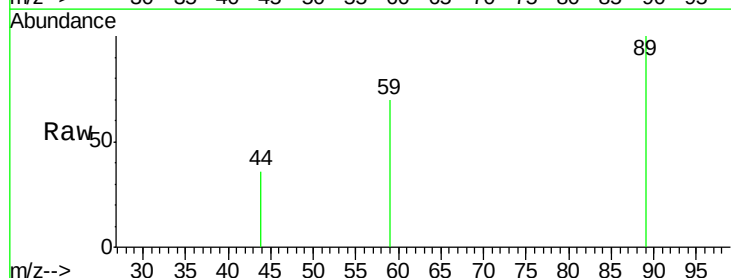
Acq: 15 Aug 2020 2:11

Tgt Ion: 59 Resp: 1395

Ion Ratio Lower Upper

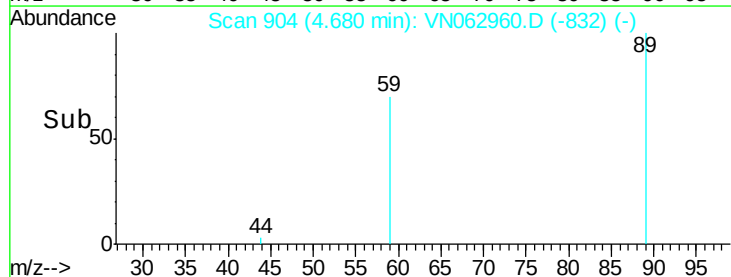
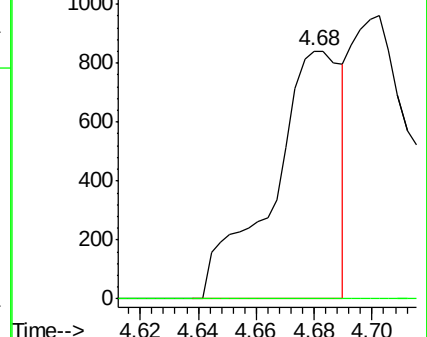
59 100

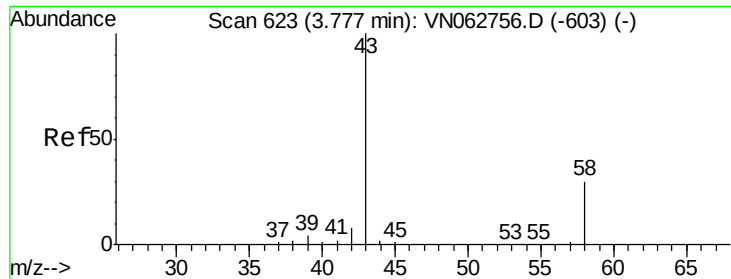
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 15.137 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampled :

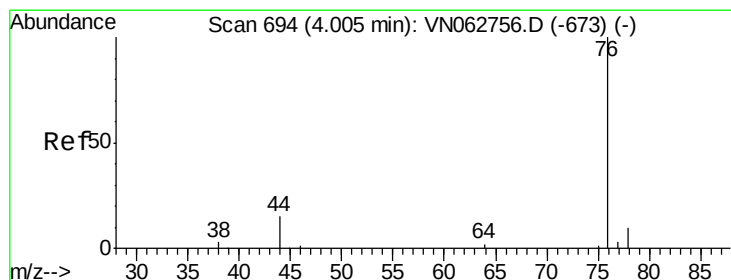
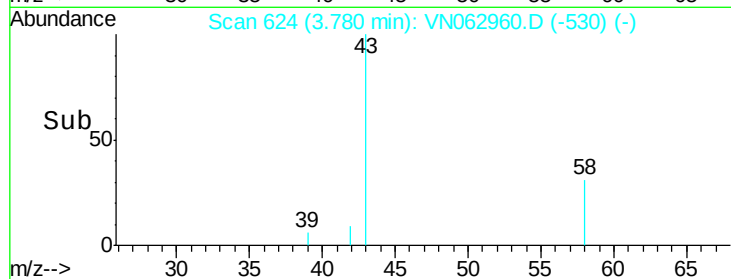
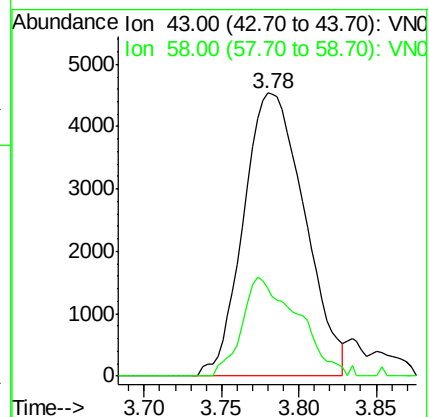
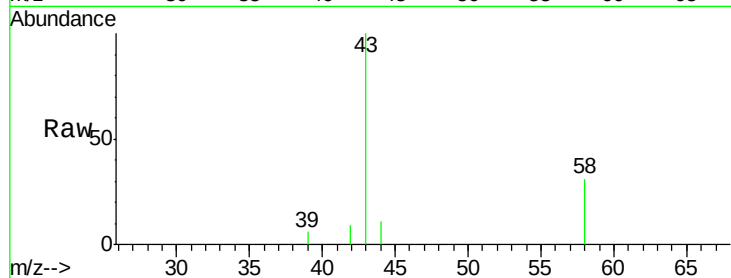
SP1-3

Tgt Ion: 43 Resp: 12459

Ion Ratio Lower Upper

43 100

58 30.7 24.1 36.1



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN062960.D

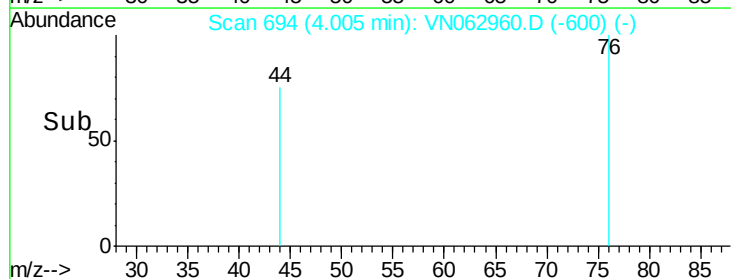
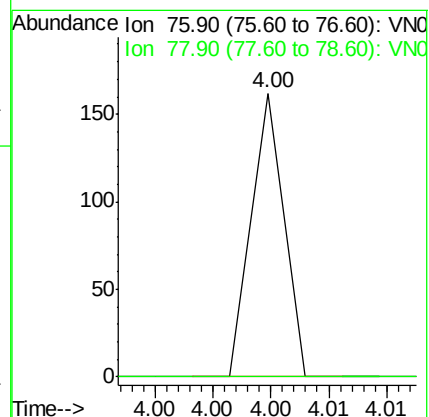
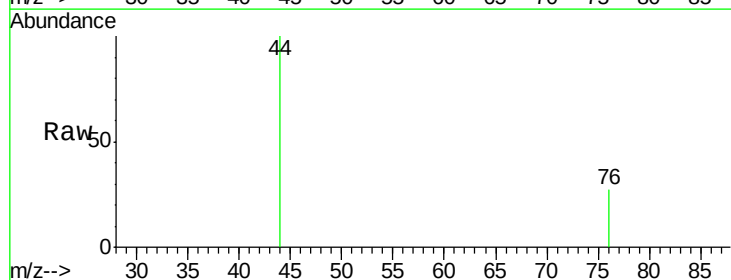
Acq: 15 Aug 2020 2:11

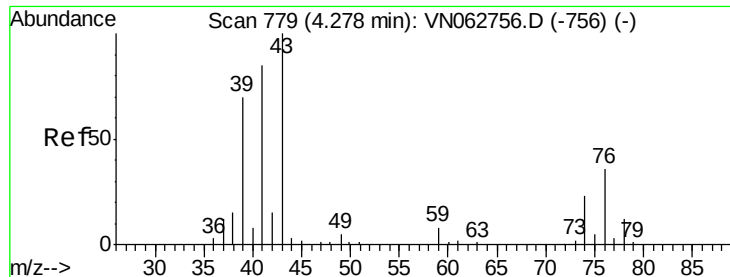
Tgt Ion: 76 Resp: 31

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#18

Methyl Acetate

Concen: 1.139 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampleId :

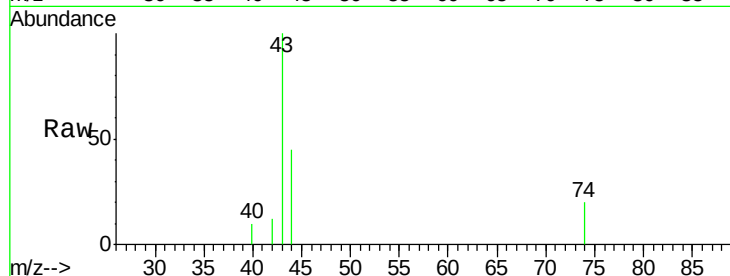
SP1-3

Tgt Ion: 43 Resp: 4366

Ion Ratio Lower Upper

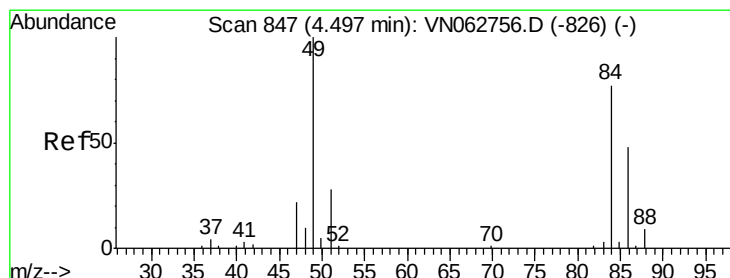
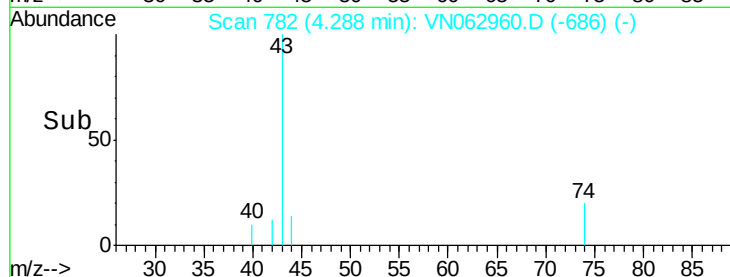
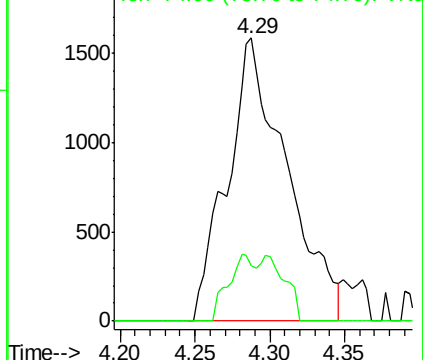
43 100

74 10.7 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-756) (-)

Ion 74.00 (73.70 to 74.70): VN062756.D (-756) (-)



#20

Methylene Chloride

Concen: 4.674 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.01 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Tgt Ion: 84 Resp: 8079

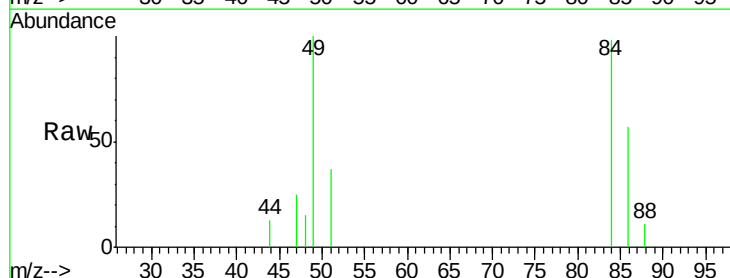
Ion Ratio Lower Upper

84 100

49 101.7 103.4 155.2#

51 37.3 29.3 43.9

86 58.4 49.9 74.9

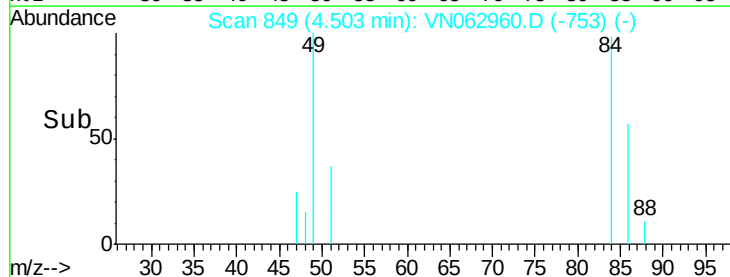
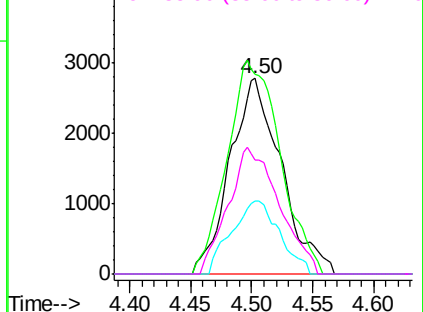


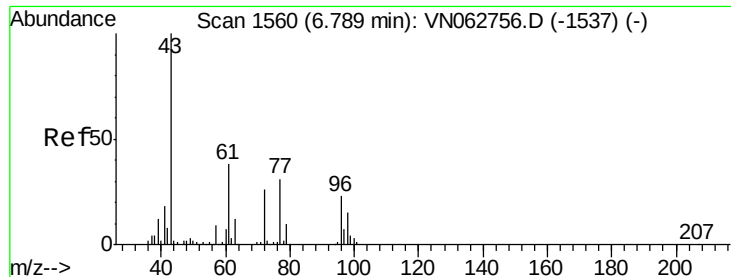
Abundance Ion 83.90 (83.60 to 84.60): VN062756.D (-826) (-)

Ion 48.90 (48.60 to 49.60): VN062756.D (-826) (-)

Ion 50.90 (50.60 to 51.60): VN062756.D (-826) (-)

Ion 85.90 (85.60 to 86.60): VN062756.D (-826) (-)





#25

2-Butanone

Concen: 2.104 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampled :

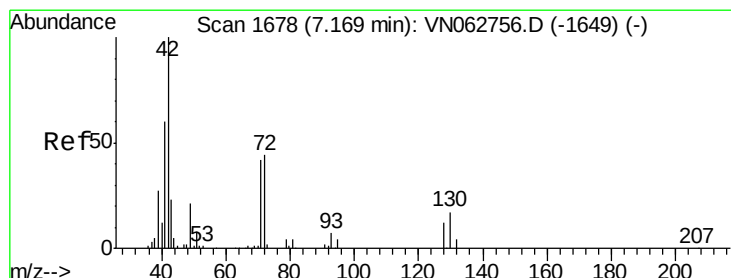
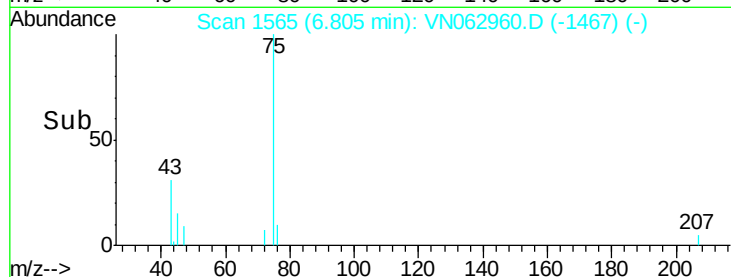
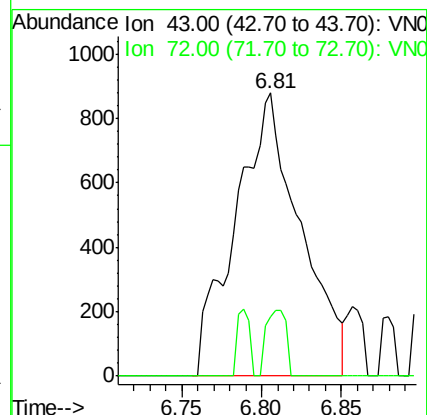
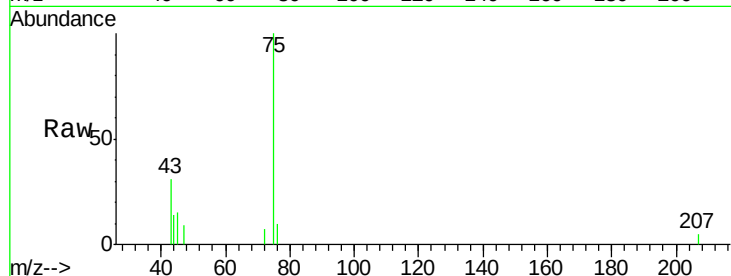
SP1-3

Tgt Ion: 43 Resp: 2453

Ion Ratio Lower Upper

43 100

72 21.2 21.1 31.7



#29

Tetrahydrofuran

Concen: 0.411 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.00 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

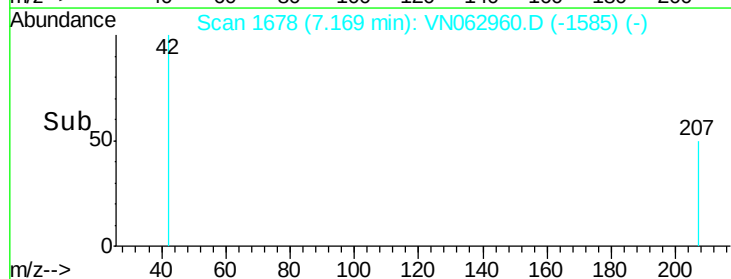
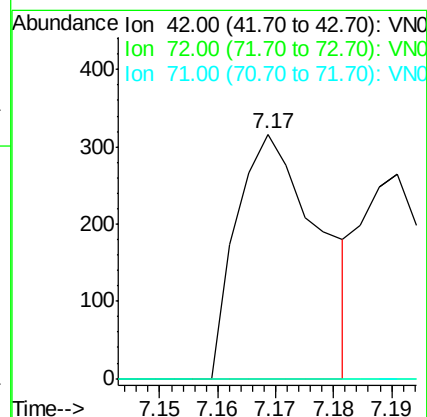
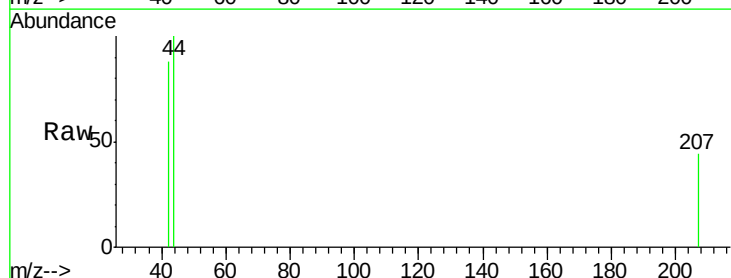
Tgt Ion: 42 Resp: 311

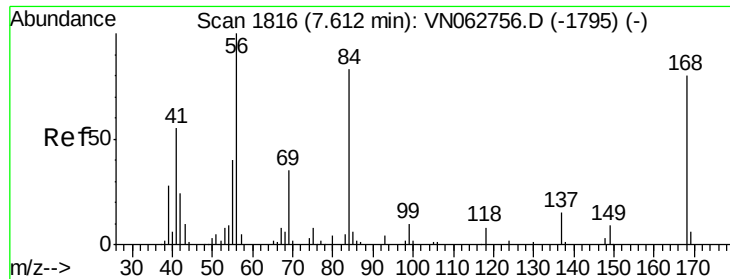
Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 33.2 49.8#

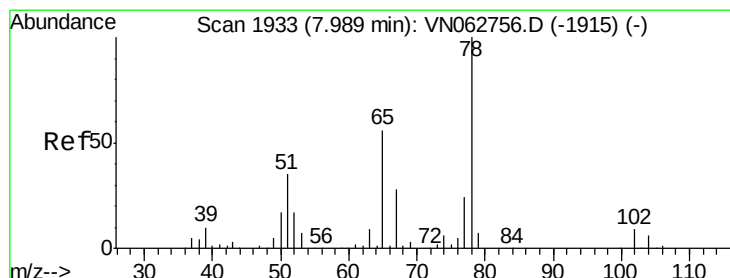
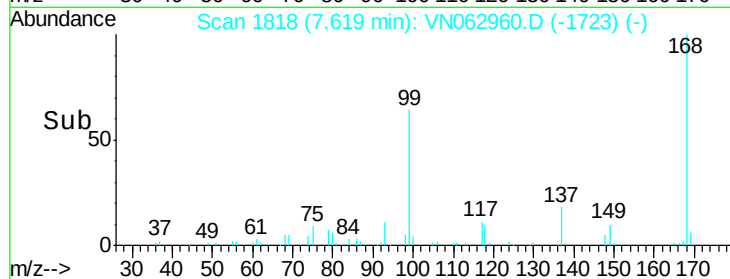
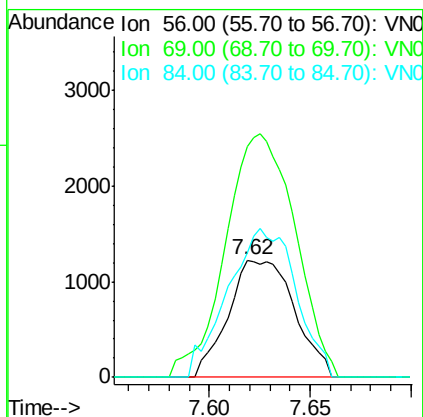
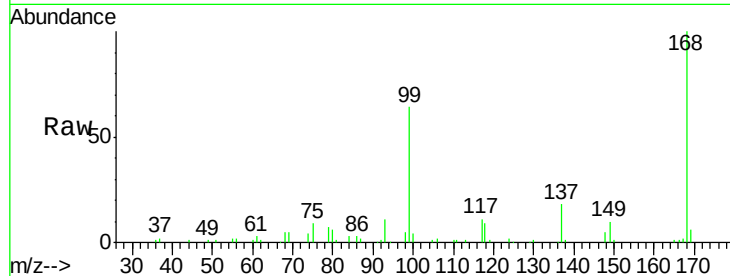




#31
Cyclohexane
Concen: 1.014 ug/l
RT: 7.62 min Scan# 1816
Delta R.T. 0.01 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

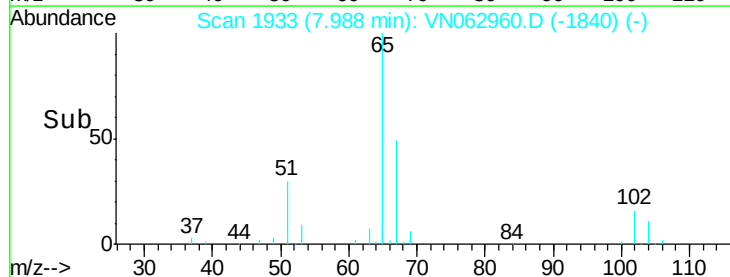
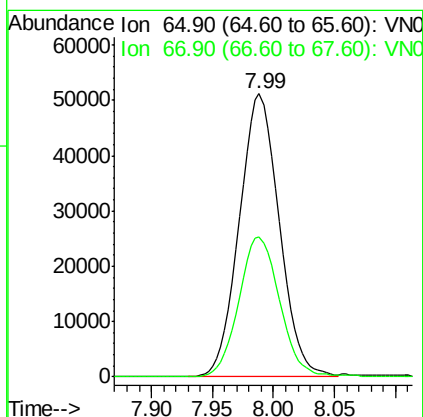
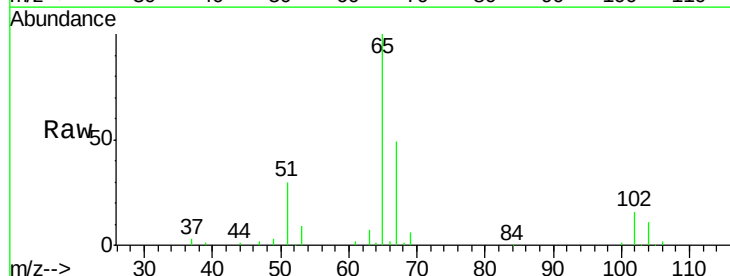
Instrument :
MSVOA_N
ClientSampled :
SP1-3

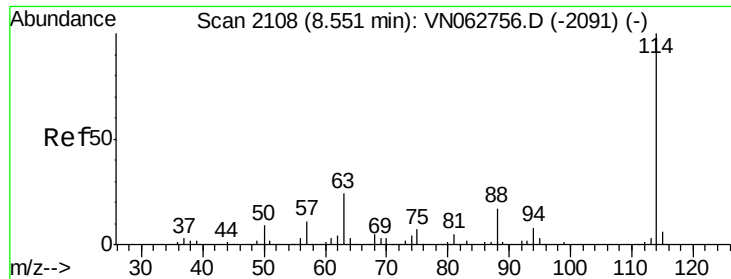
Tgt Ion: 56 Resp: 2800
Ion Ratio Lower Upper
56 100
69 196.7 28.1 42.1#
84 106.5 66.8 100.2#



#33
1,2-Dichloroethane-d4
Concen: 50.988 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Tgt Ion: 65 Resp: 116143
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.4

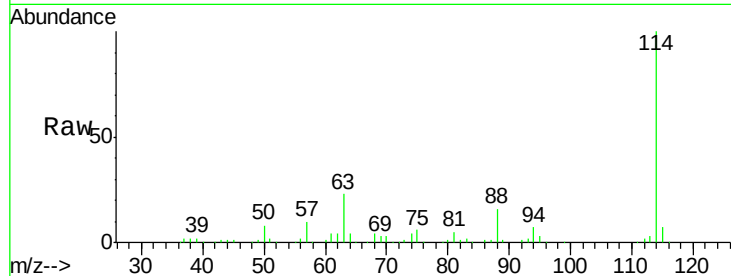




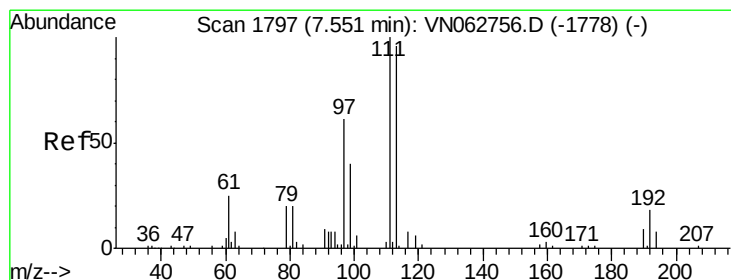
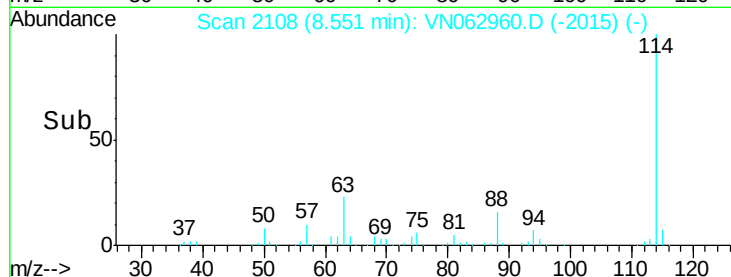
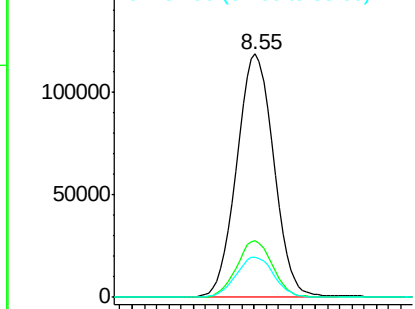
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Instrument :
MSVOA_N
ClientSampleId :
SP1-3

Tgt Ion:114 Resp: 249170
Ion Ratio Lower Upper
114 100
63 23.1 0.0 47.6
88 16.5 0.0 34.4

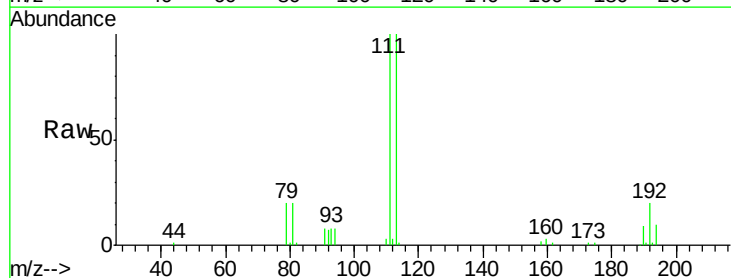


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

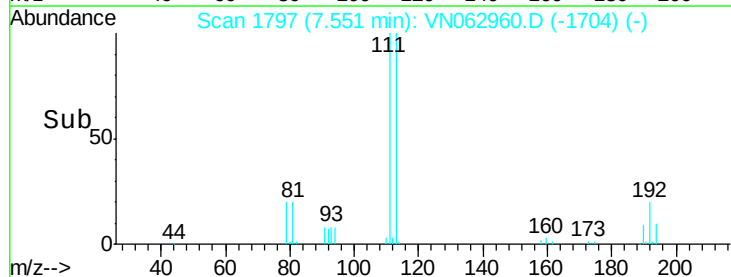
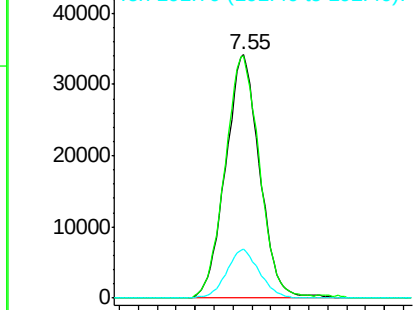


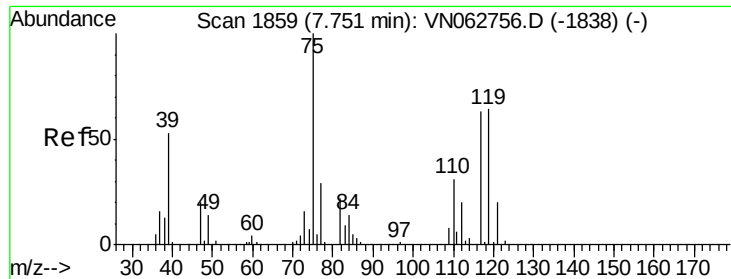
#35
Dibromofluoromethane
Concen: 50.071 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Tgt Ion:113 Resp: 85345
Ion Ratio Lower Upper
113 100
111 101.0 81.8 122.6
192 19.2 15.0 22.4



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

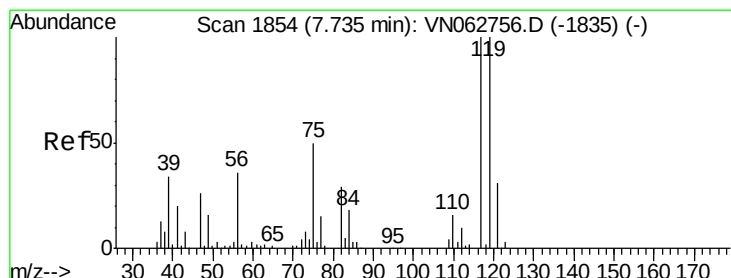
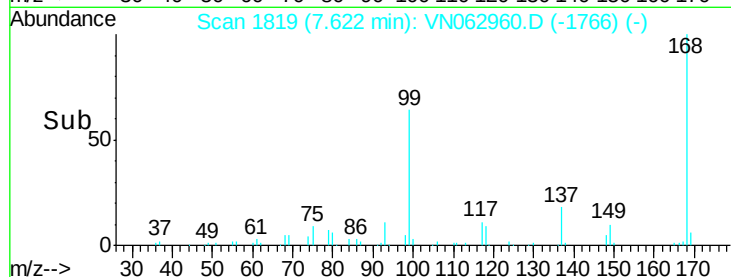
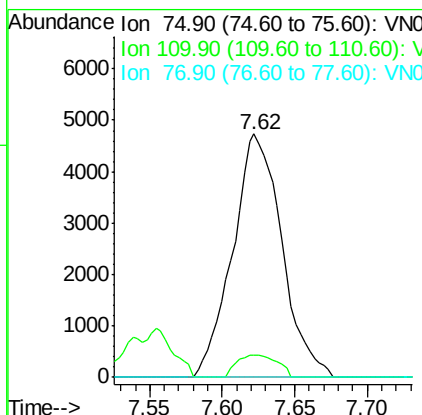
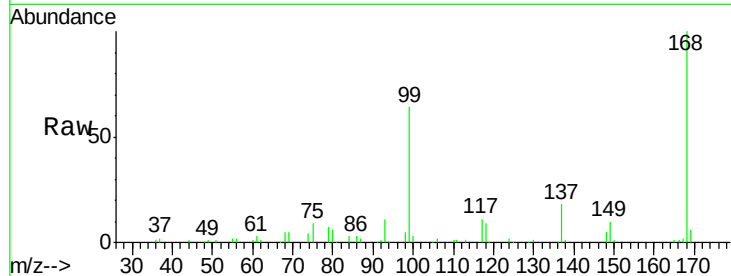




#36
 1,1-Dichloropropene
 Concen: 4.610 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062960.D
 Acq: 15 Aug 2020 2:11

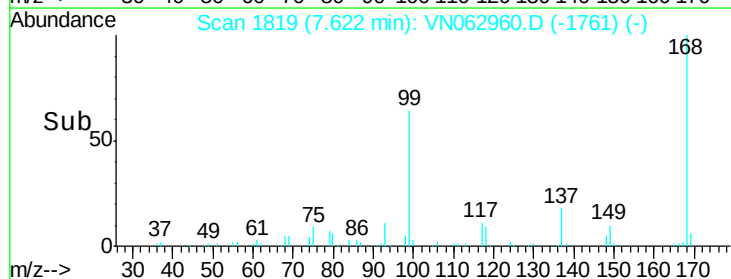
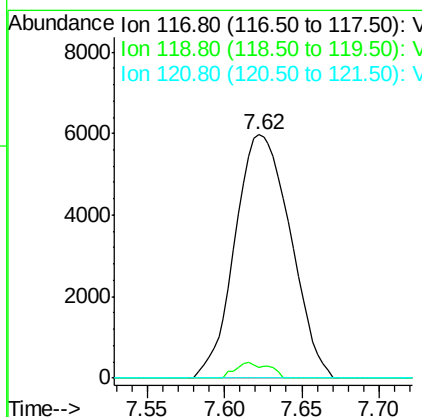
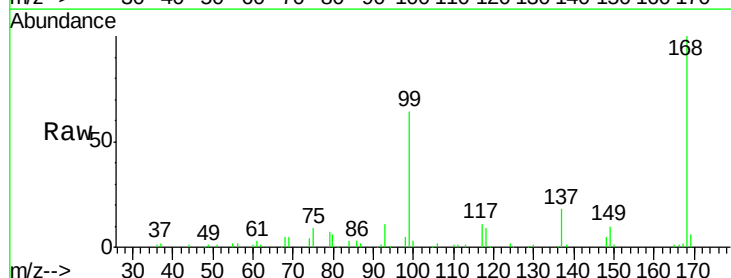
Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-3

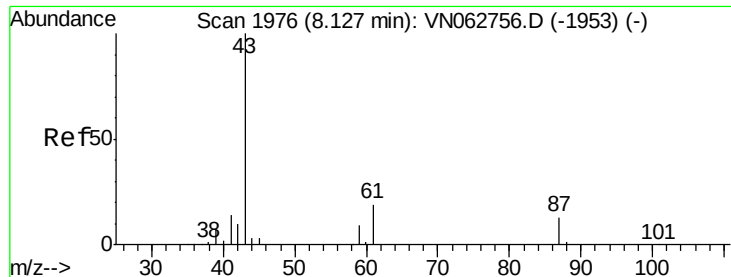
Tgt Ion: 75 Resp: 11184
 Ion Ratio Lower Upper
 75 100
 110 7.5 15.6 46.7#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 5.167 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062960.D
 Acq: 15 Aug 2020 2:11

Tgt Ion: 117 Resp: 14827
 Ion Ratio Lower Upper
 117 100
 119 4.5 79.4 119.2#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 10.796 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

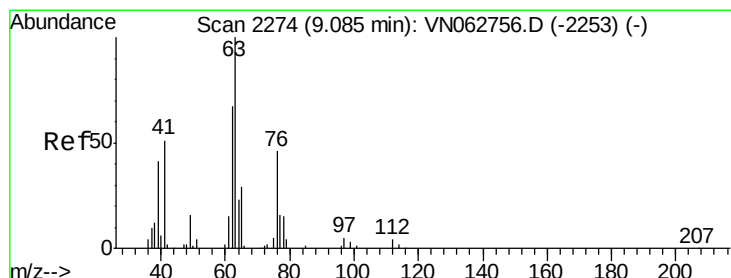
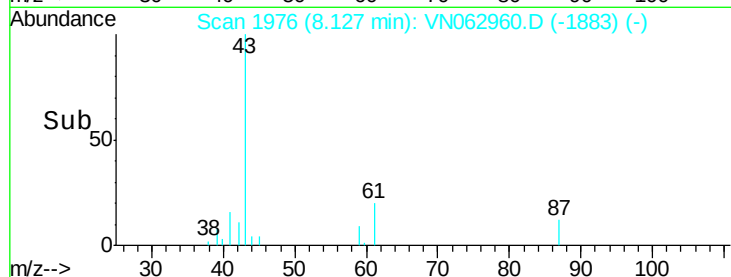
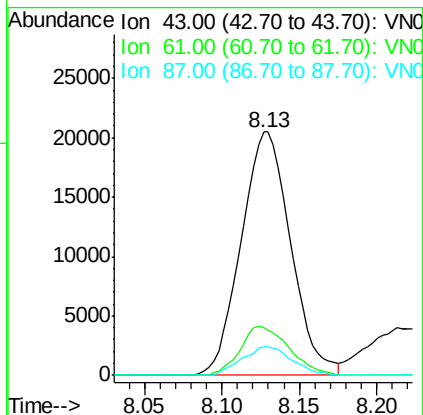
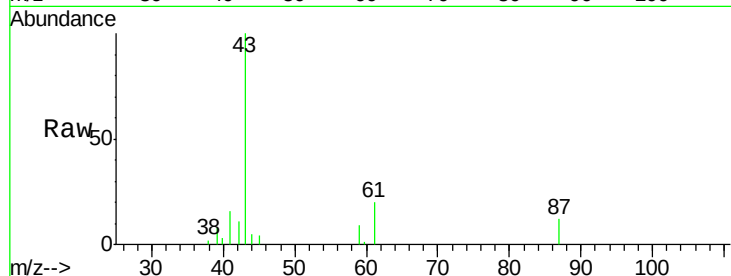
Instrument :

MSVOA_N

ClientSampled :

SP1-3

Tgt Ion:	43	Resp:	45637
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.6
87	11.8	9.9	14.9



#45

1,2-Dichloropropane

Concen: 0.405 ug/l

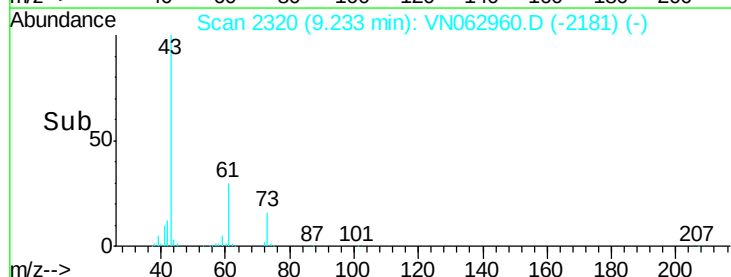
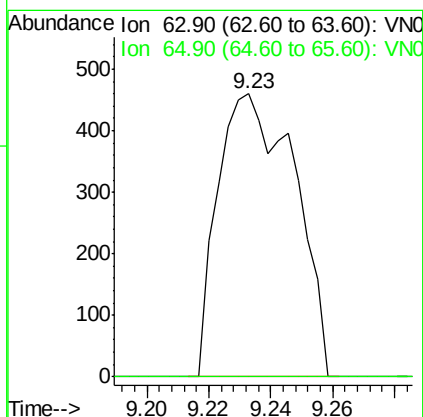
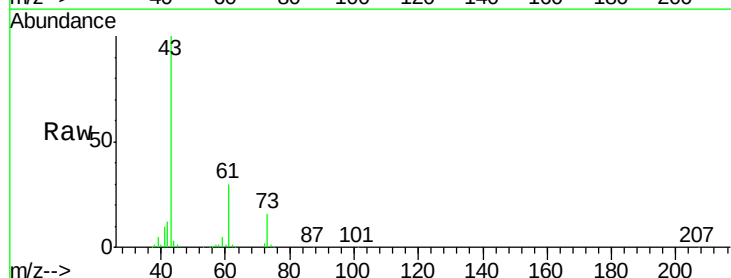
RT: 9.23 min Scan# 2320

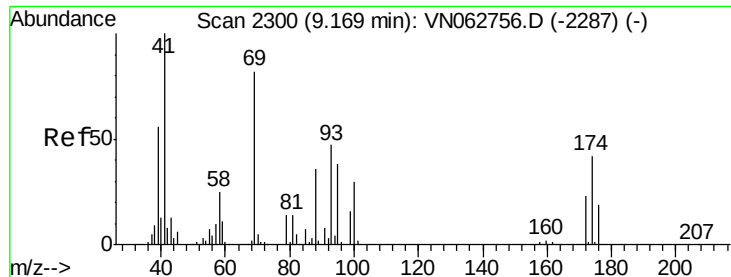
Delta R.T. 0.15 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Tgt Ion:	63	Resp:	794
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.5	35.3#

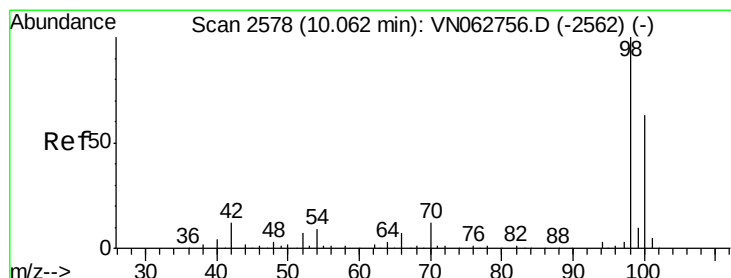
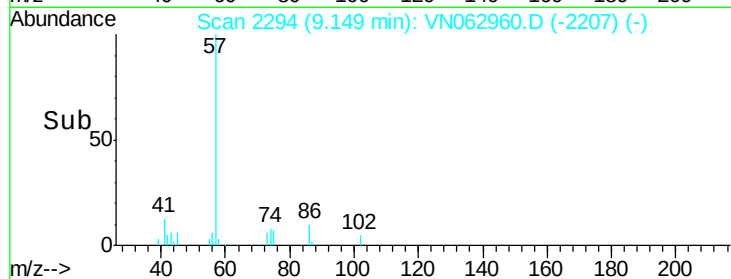
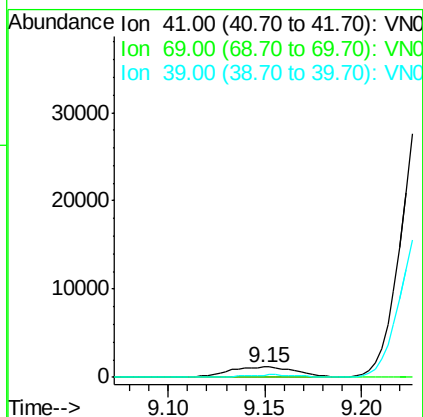
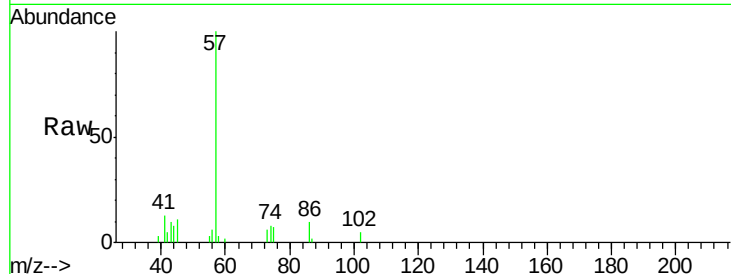




#48
Methyl methacrylate
Concen: 1.347 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

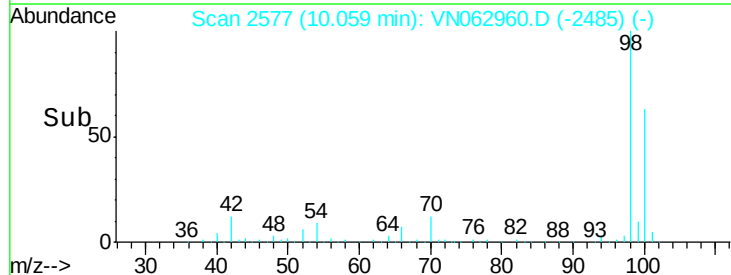
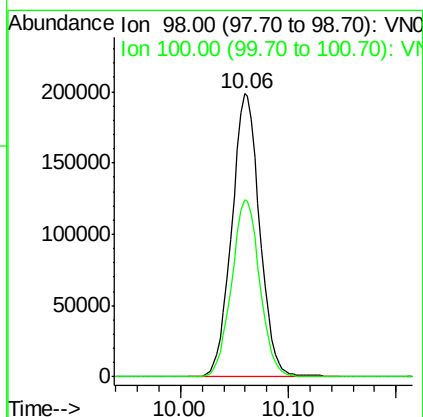
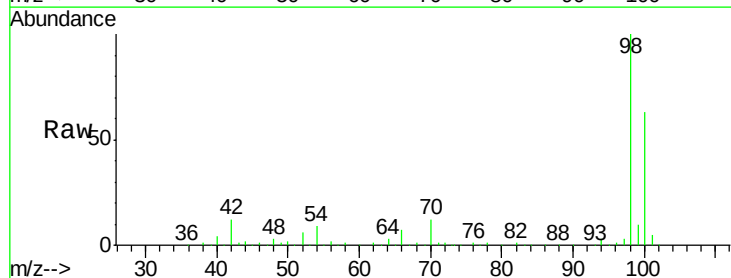
Instrument :
MSVOA_N
ClientSampled :
SP1-3

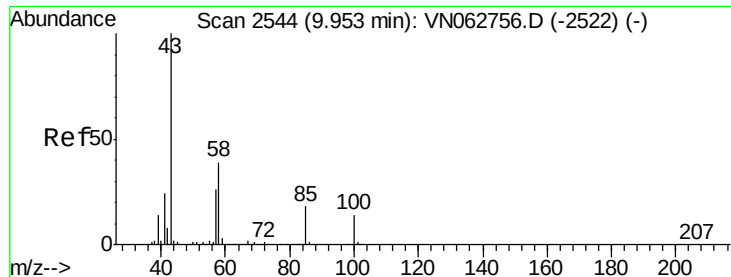
Tgt Ion: 41 Resp: 2800
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#



#50
Toluene-d8
Concen: 53.951 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Tgt Ion: 98 Resp: 359007
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3

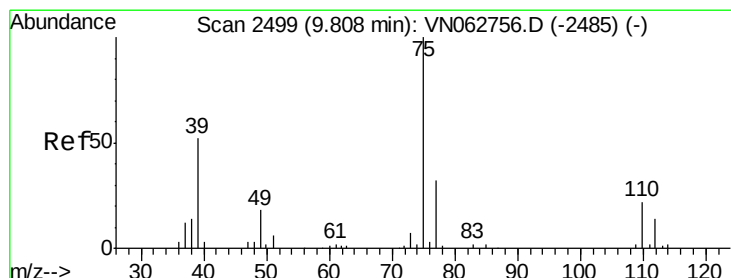
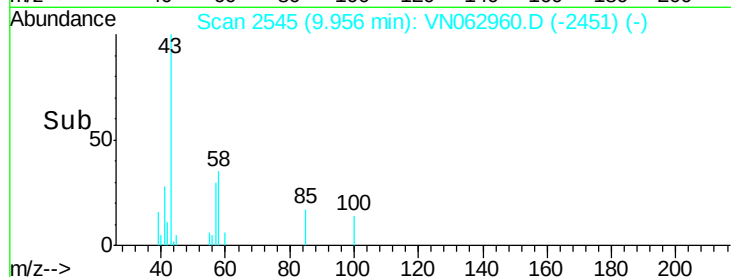
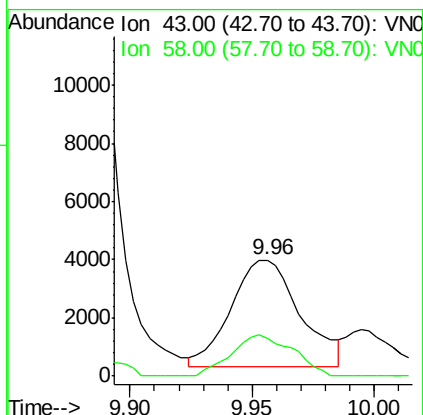
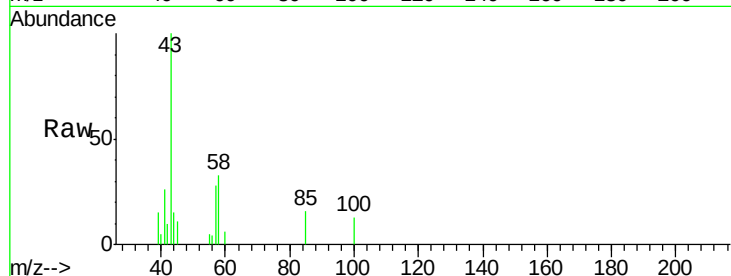




#51
 4-Methyl-2-Pentanone
 Concen: 2.625 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN062960.D
 Acq: 15 Aug 2020 2:11

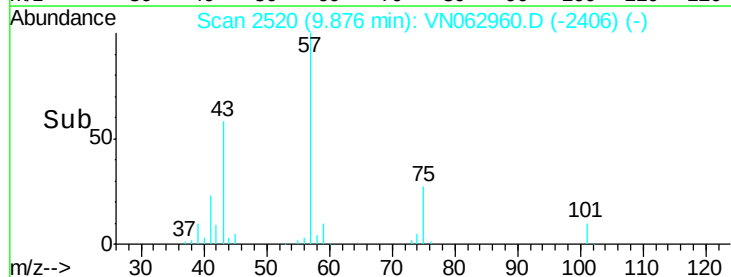
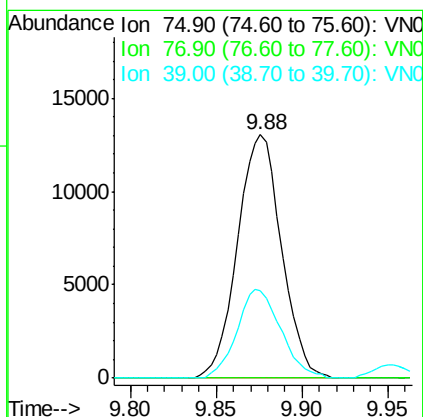
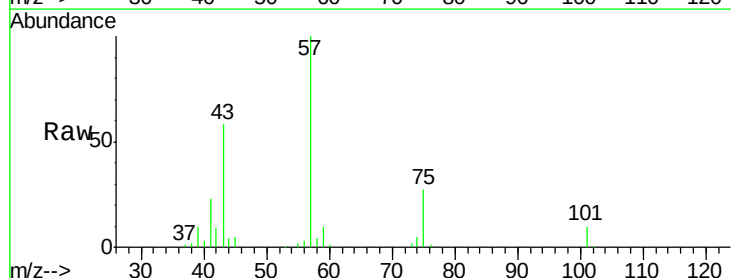
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-3

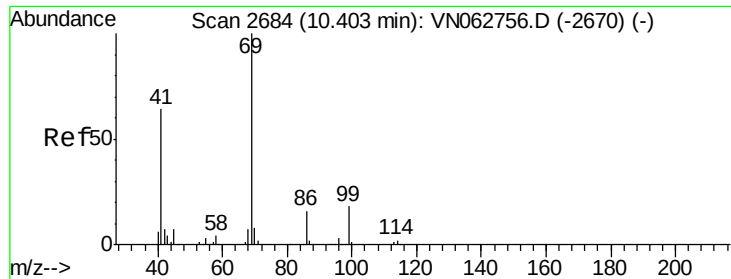
Tgt Ion: 43 Resp: 7179
 Ion Ratio Lower Upper
 43 100
 58 34.6 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 7.284 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062960.D
 Acq: 15 Aug 2020 2:11

Tgt Ion: 75 Resp: 23195
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 35.8 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.580 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampled :

SP1-3

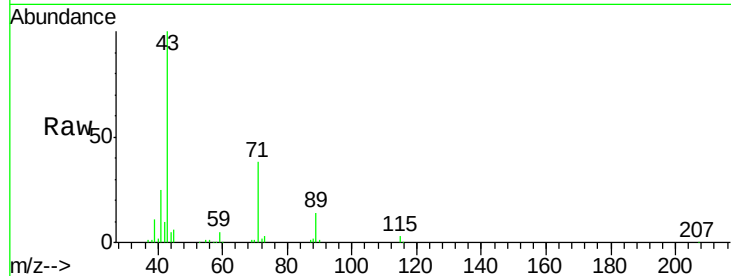
Tgt Ion: 69 Resp: 1667

Ion Ratio Lower Upper

69 100

41 2888.3 52.2 78.2#

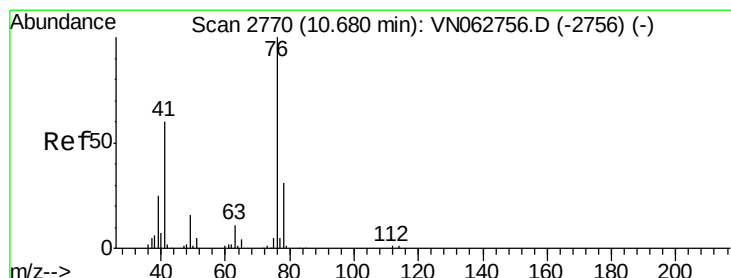
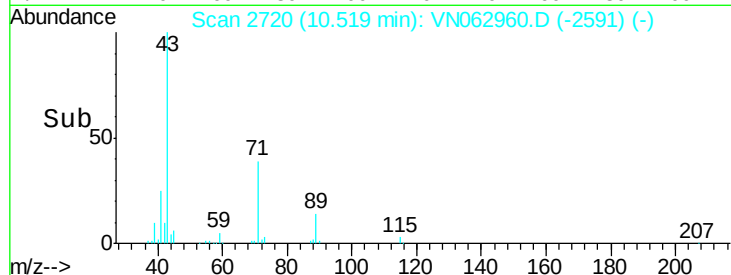
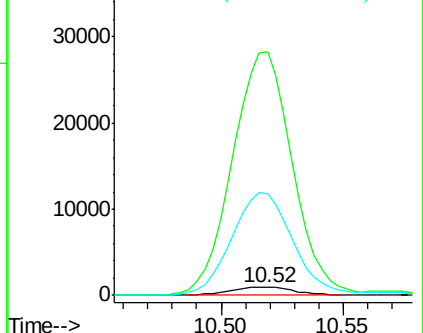
39 1239.8 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VN062960.D (-2720) (-)

Ion 41.00 (40.70 to 41.70): VN062960.D (-2720) (-)

Ion 39.00 (38.70 to 39.70): VN062960.D (-2720) (-)



#57

1,3-Dichloropropane

Concen: 1.110 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062960.D

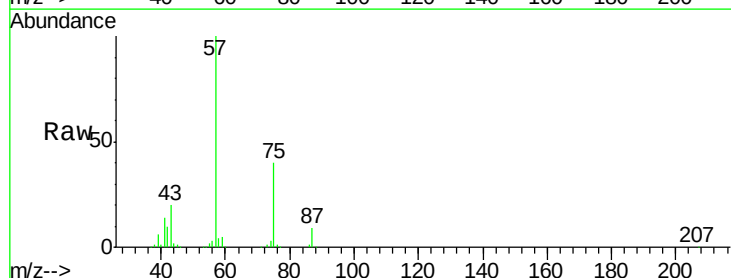
Acq: 15 Aug 2020 2:11

Tgt Ion: 76 Resp: 3600

Ion Ratio Lower Upper

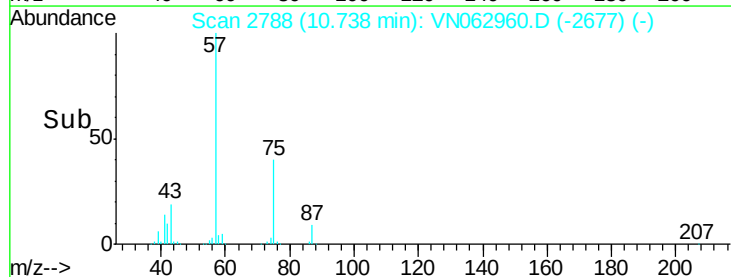
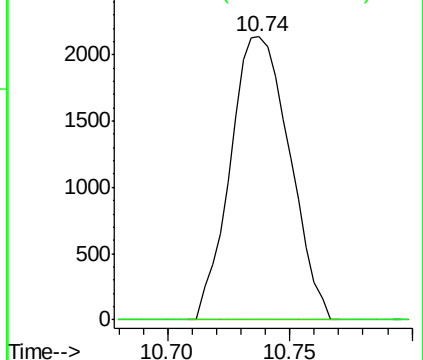
76 100

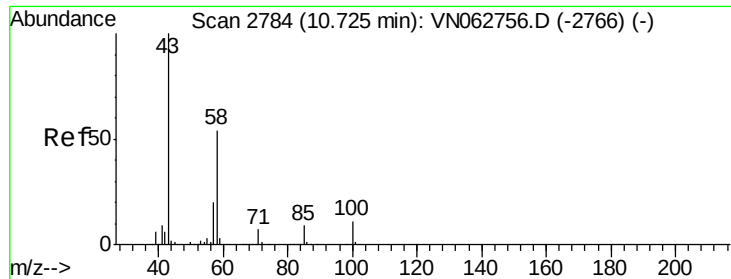
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN062960.D (-2788) (-)

Ion 77.90 (77.60 to 78.60): VN062960.D (-2788) (-)

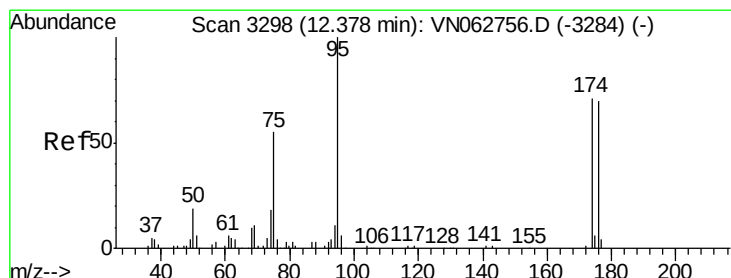
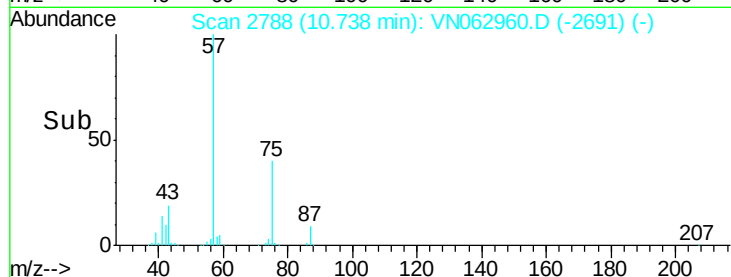
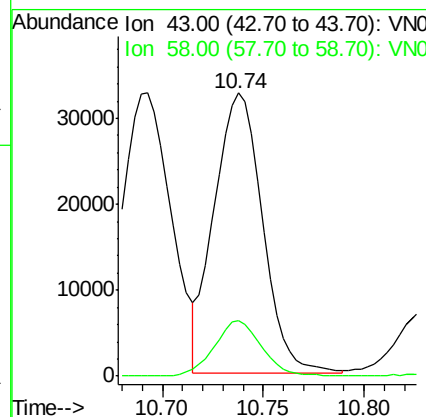
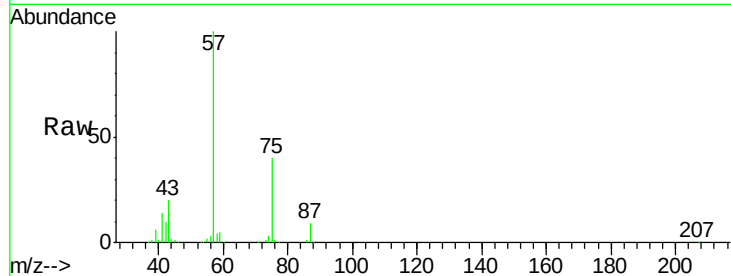




#59
2-Hexanone
Concen: 26.617 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

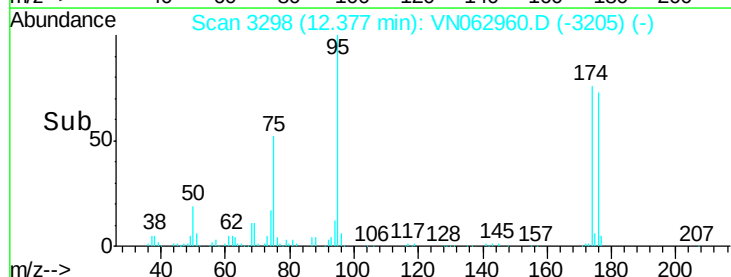
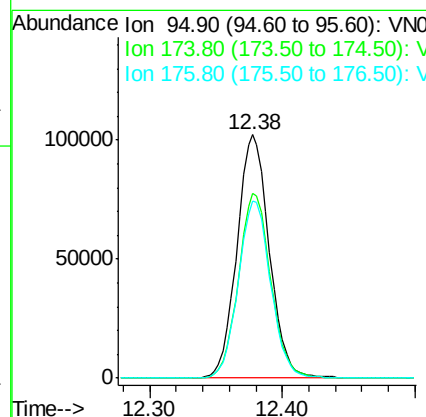
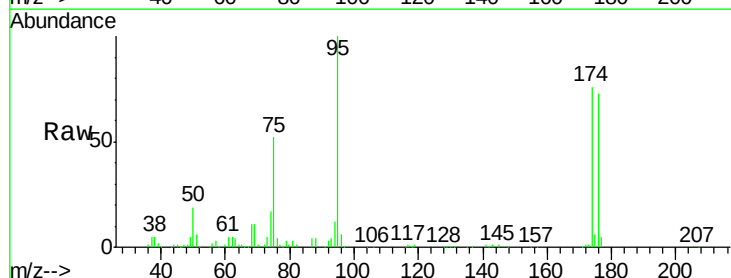
Instrument :
MSVOA_N
ClientSampled :
SP1-3

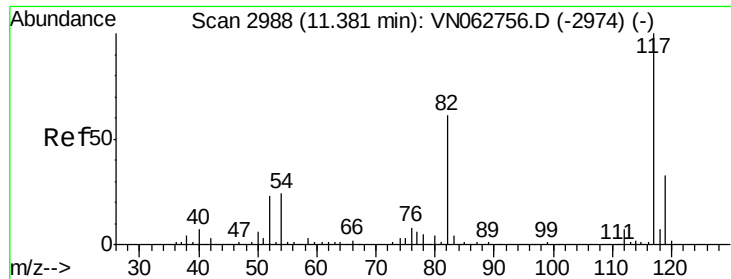
Tgt Ion: 43 Resp: 54305
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 68.670 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Tgt Ion: 95 Resp: 172683
Ion Ratio Lower Upper
95 100
174 76.1 0.0 144.8
176 73.3 0.0 142.2

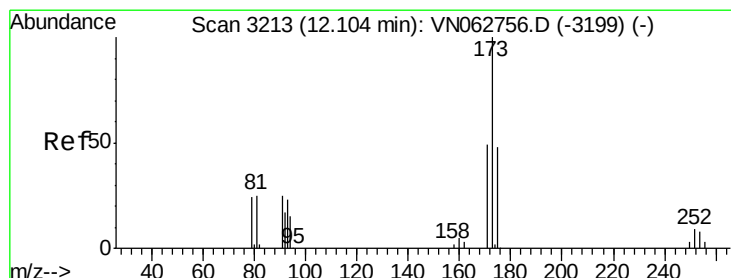
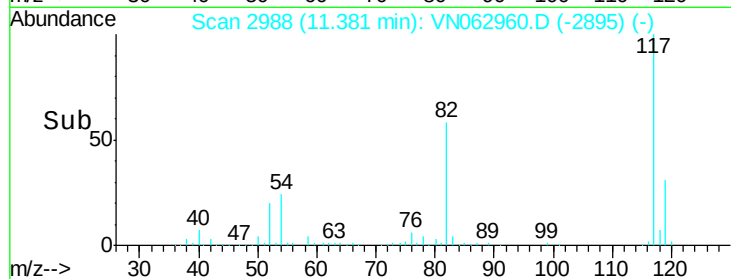
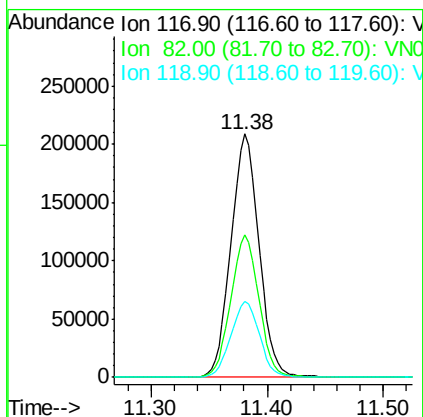
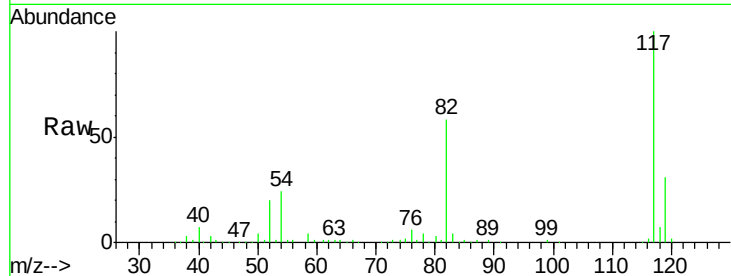




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

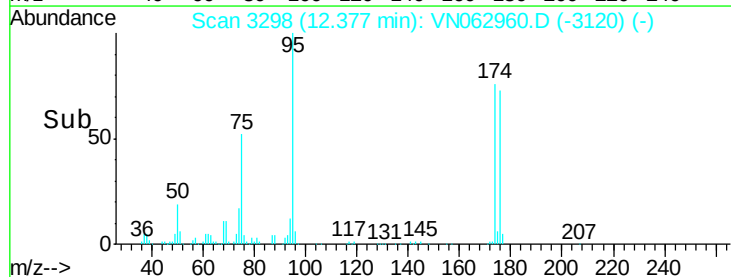
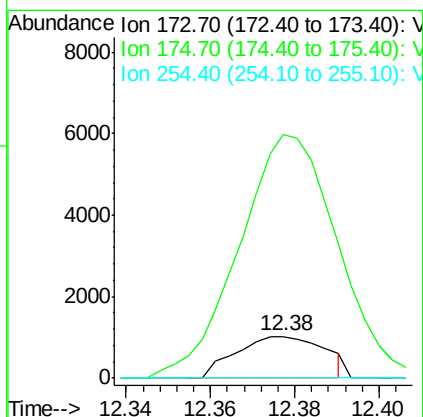
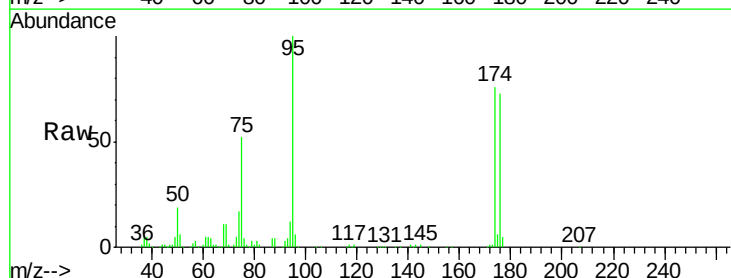
Instrument :
MSVOA_N
ClientSampled :
SP1-3

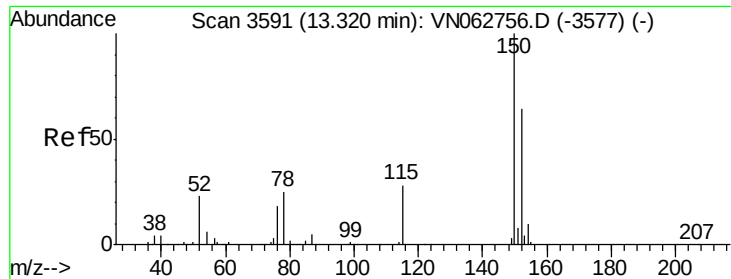
Tgt Ion:117 Resp: 348873
Ion Ratio Lower Upper
117 100
82 58.5 49.0 73.4
119 31.4 26.2 39.2



#71
Bromoform
Concen: 0.626 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.27 min
Lab File: VN062960.D
Acq: 15 Aug 2020 2:11

Tgt Ion:173 Resp: 1500
Ion Ratio Lower Upper
173 100
175 574.9 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampleId :

SP1-3

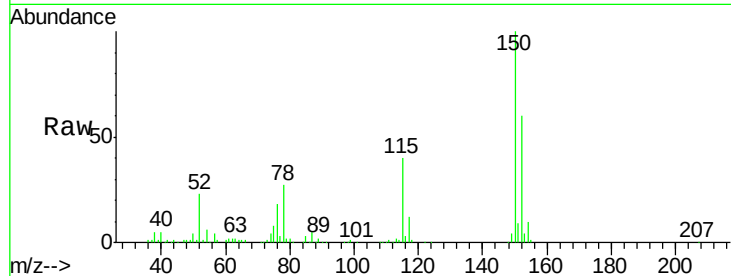
Tgt Ion:152 Resp: 123127

Ion Ratio Lower Upper

152 100

115 62.8 31.6 94.8

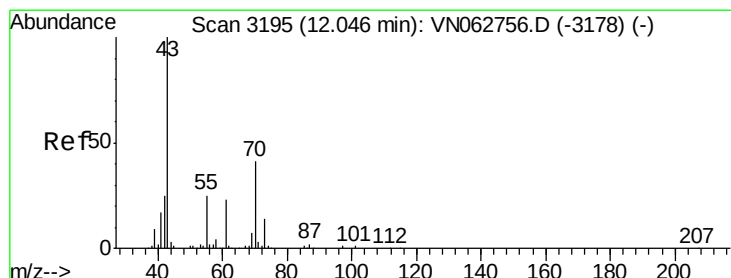
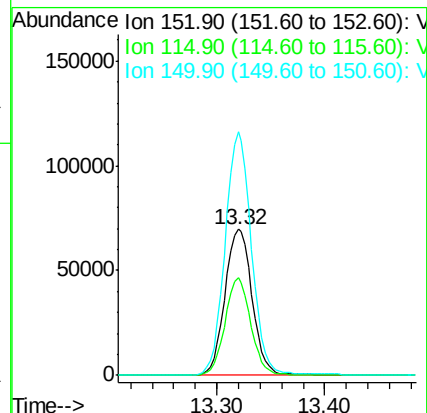
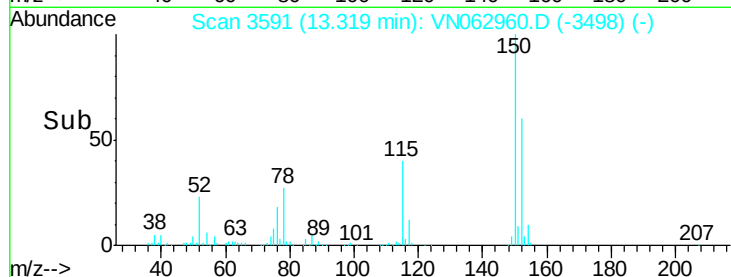
150 159.9 0.0 349.2



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: 0.421 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Tgt Ion: 43 Resp: 1581

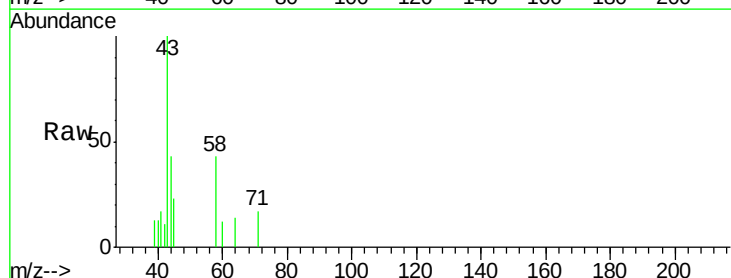
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

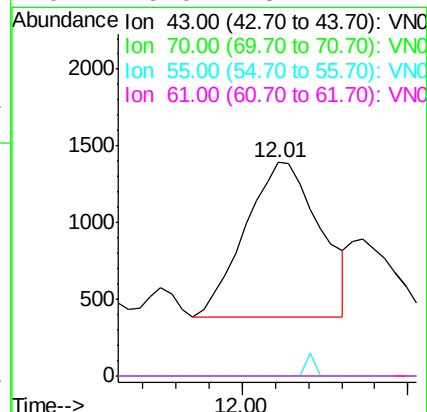
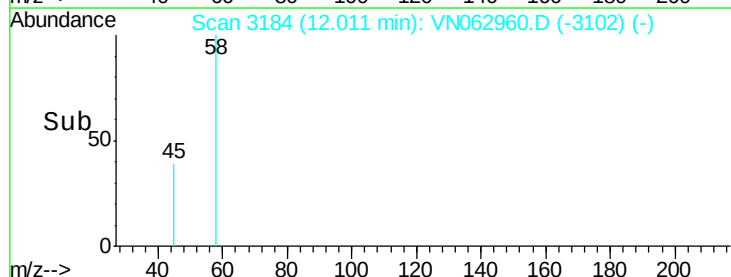


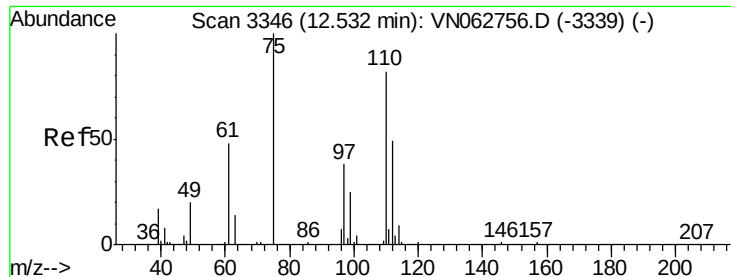
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.051 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

Instrument :

MSVOA_N

ClientSampleId :

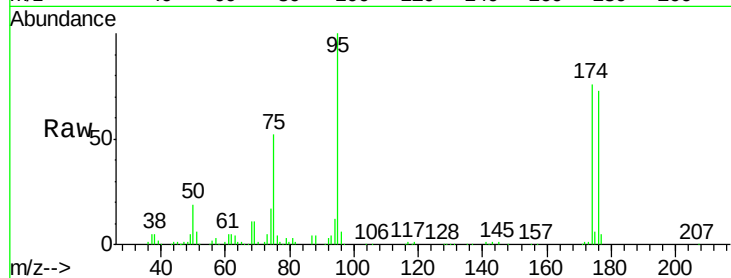
SP1-3

Tgt Ion: 75 Resp: 89827

Ion Ratio Lower Upper

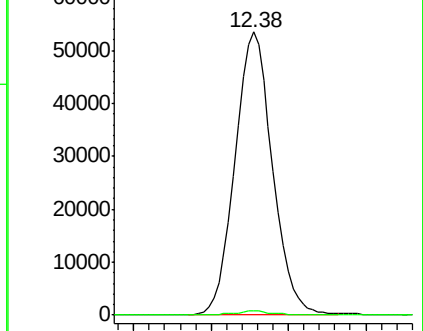
75 100

77 1.5 0.0 0.0#

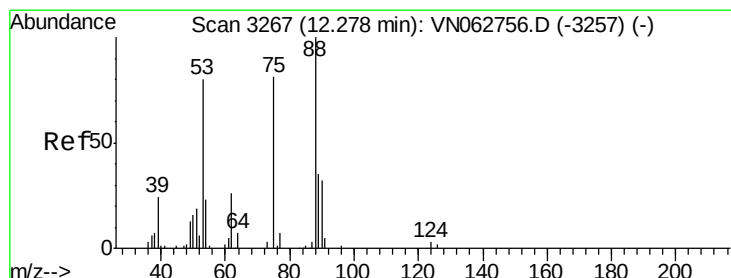
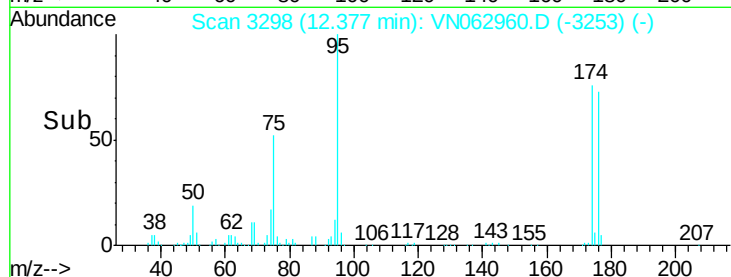


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 82.581 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062960.D

Acq: 15 Aug 2020 2:11

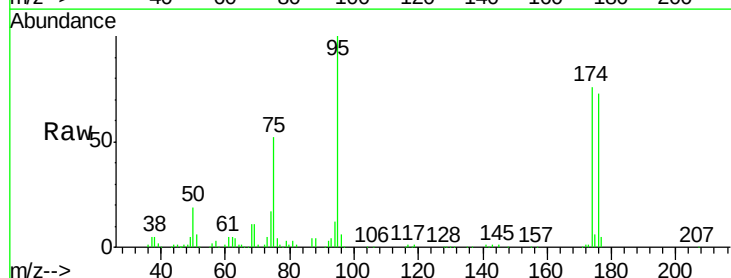
Tgt Ion: 75 Resp: 89827

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

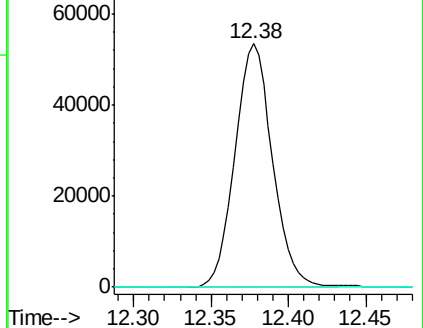
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.35 12.40 12.45

