

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081420\
 Data File : VN062959.D
 Acq On : 15 Aug 2020 1:47
 Operator : JC/MD
 Sample : L3659-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-2

Quant Time: Aug 17 09:33:37 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	134581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	245706	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	259439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	124117	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	115137	51.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.46%		
35) Dibromofluoromethane	7.55	113	82383	49.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.04%		
50) Toluene-d8	10.06	98	418322	63.75	ug/l	0.00
Spiked Amount 50.000			Recovery =	127.50%		
62) 4-Bromofluorobenzene	12.38	95	117485	47.38	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.76%		

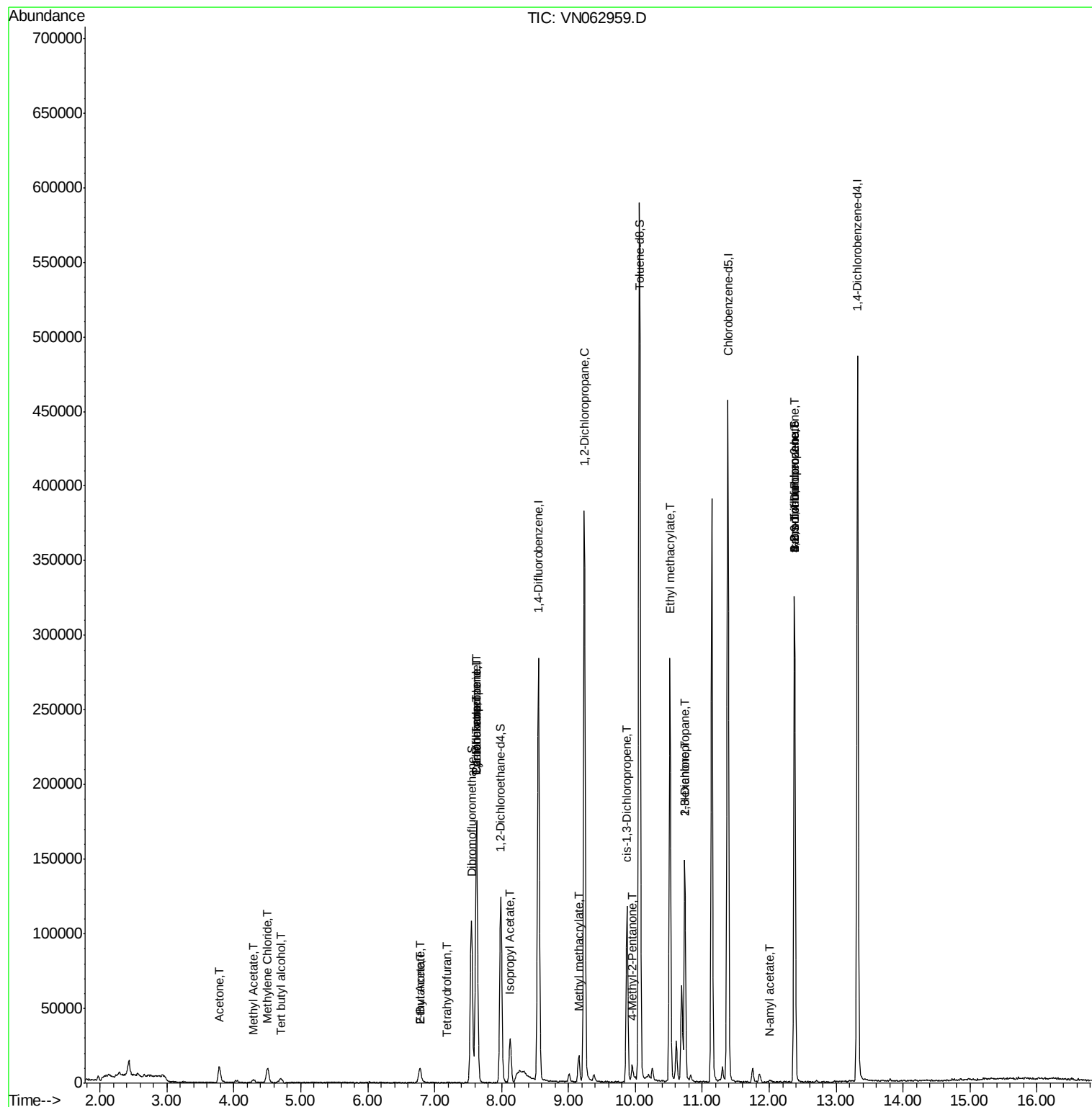
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	898	2.462	ug/l #	72
16) Acetone	3.78	43	18917	23.523	ug/l	99
18) Methyl Acetate	4.29	43	4490	1.260	ug/l #	74
20) Methylene Chloride	4.50	84	7368	4.312	ug/l	88
25) 2-Butanone	6.79	43	1579	1.386	ug/l #	49
29) Tetrahydrofuran	7.18	42	422	0.570	ug/l #	39
31) Cyclohexane	7.63	56	3235	1.199	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	11209	4.685	ug/l #	53
37) Ethyl Acetate	6.79	43	1579	0.632	ug/l #	71
38) Carbon Tetrachloride	7.63	117	13655	4.826	ug/l #	15
43) Isopropyl Acetate	8.13	43	34453	8.265	ug/l	99
45) 1,2-Dichloropropane	9.24	63	388	0.201	ug/l #	45
48) Methyl methacrylate	9.15	41	2295	1.119	ug/l #	13
51) 4-Methyl-2-Pentanone	9.96	43	6592	2.444	ug/l	91
54) cis-1,3-Dichloropropene	9.88	75	20649	6.576	ug/l #	64
56) Ethyl methacrylate	10.52	69	1838	0.649	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	1532	0.479	ug/l #	43
59) 2-Hexanone	10.74	43	21174	10.524	ug/l #	56
71) Bromoform	12.37	173	568	0.319	ug/l #	1
74) N-amyl acetate	12.01	43	1519	0.401	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	62731	18.741	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	62731	57.210	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: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampleId :

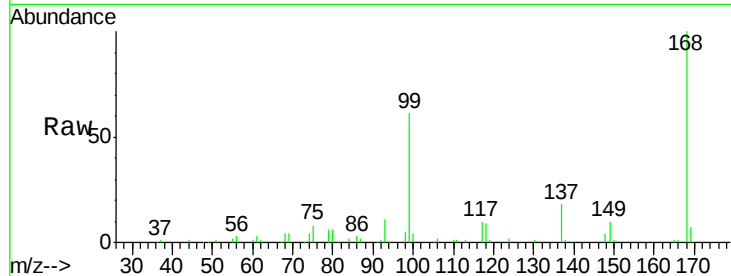
SP1-2

Tgt Ion:168 Resp: 134581

Ion Ratio Lower Upper

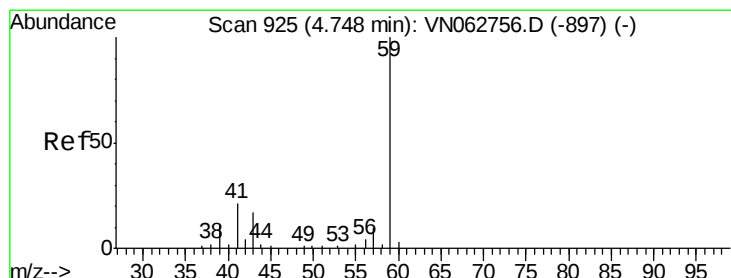
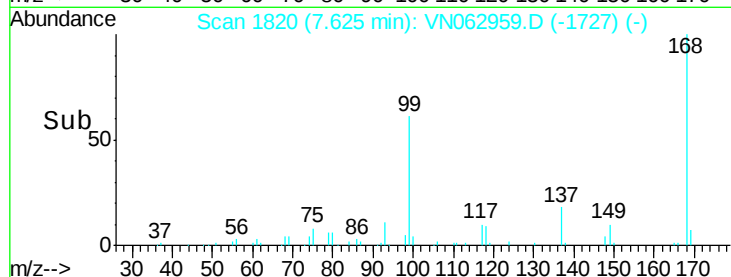
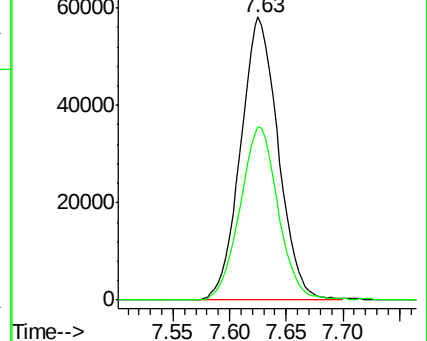
168 100

99 61.3 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 2.462 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.03 min

Lab File: VN062959.D

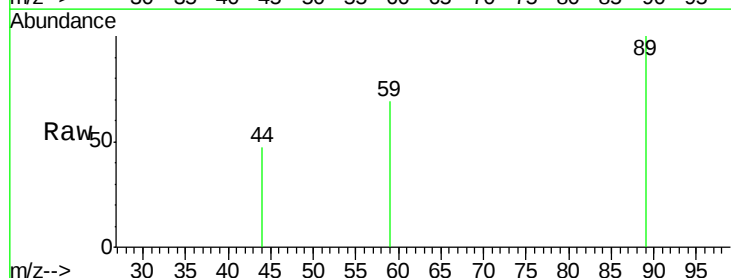
Acq: 15 Aug 2020 1:47

Tgt Ion: 59 Resp: 898

Ion Ratio Lower Upper

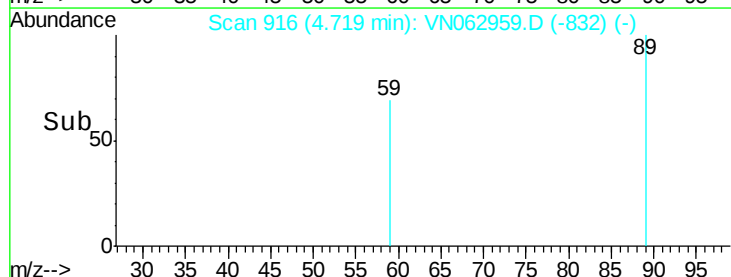
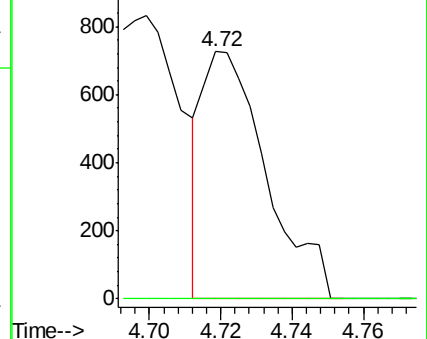
59 100

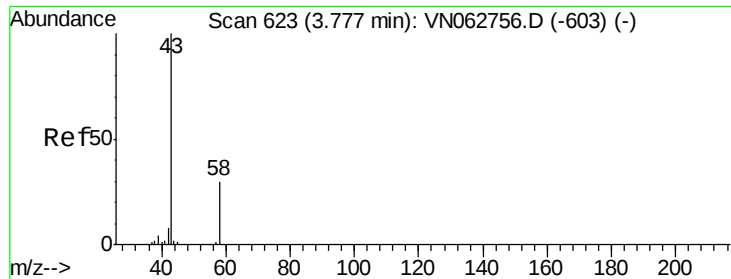
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 23.523 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampled :

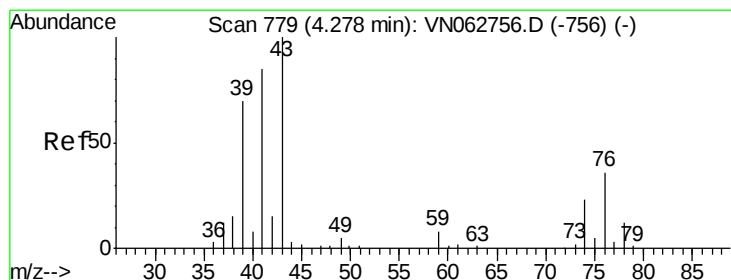
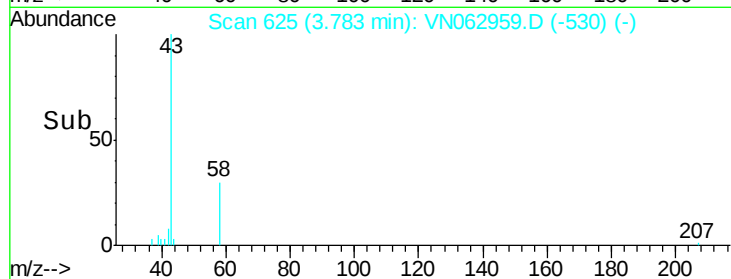
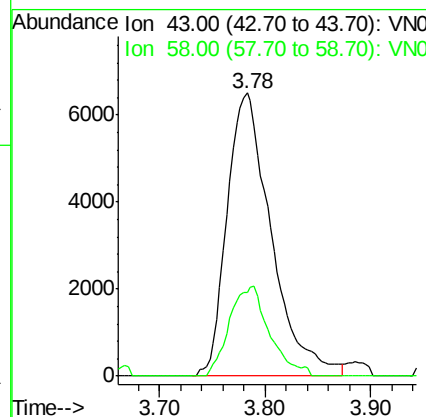
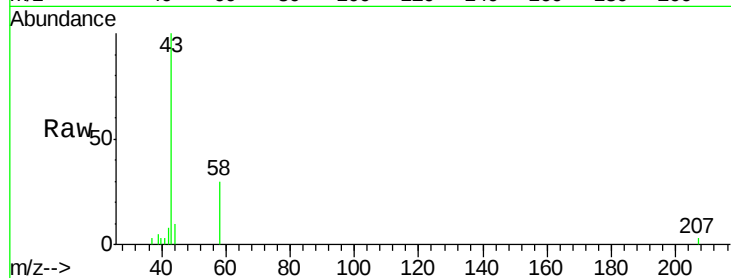
SP1-2

Tgt Ion: 43 Resp: 18917

Ion Ratio Lower Upper

43 100

58 29.8 24.1 36.1



#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062959.D

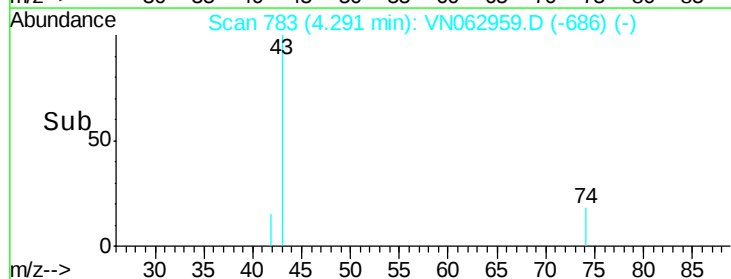
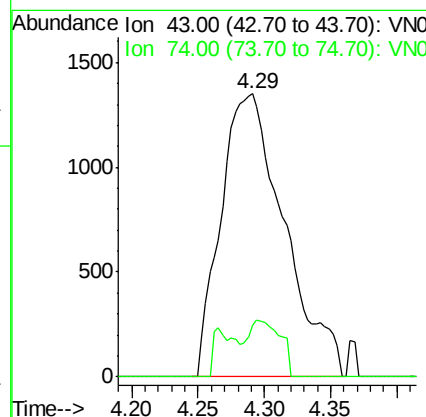
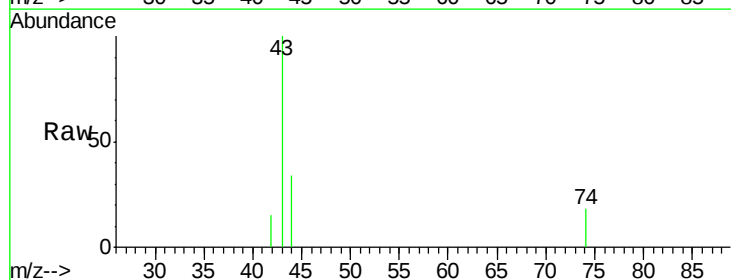
Acq: 15 Aug 2020 1:47

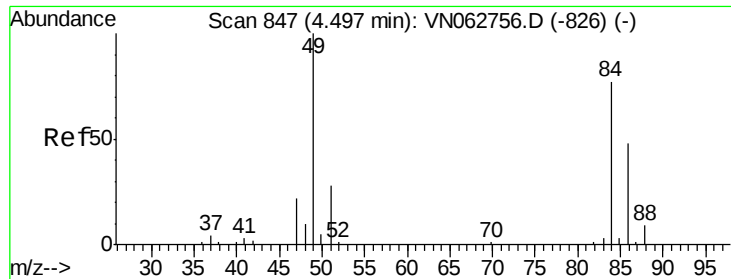
Tgt Ion: 43 Resp: 4490

Ion Ratio Lower Upper

43 100

74 10.4 18.6 28.0#

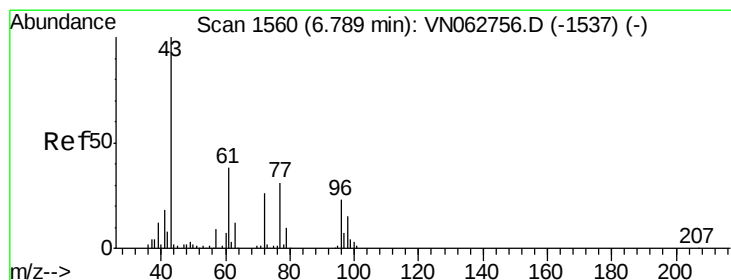
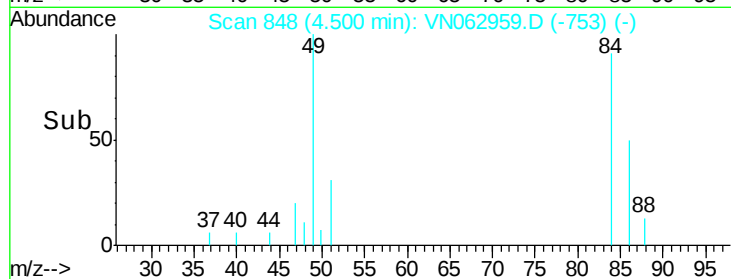
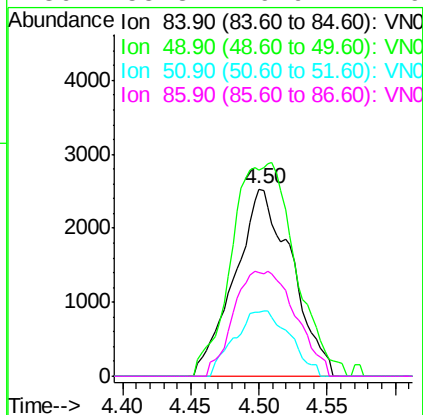
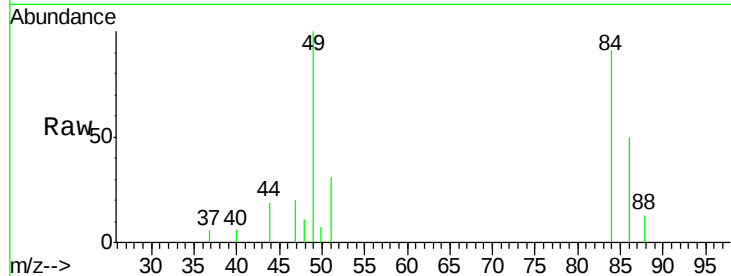




#20
Methylene Chloride
Concen: 4.312 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

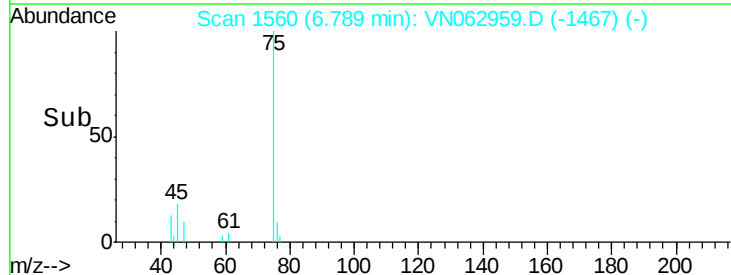
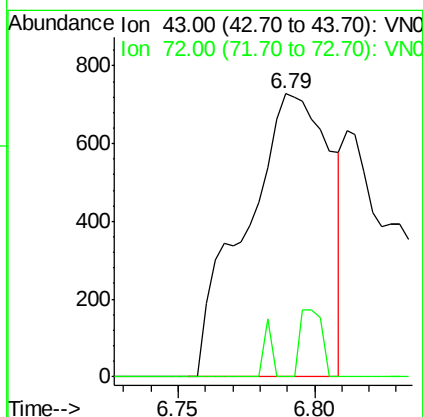
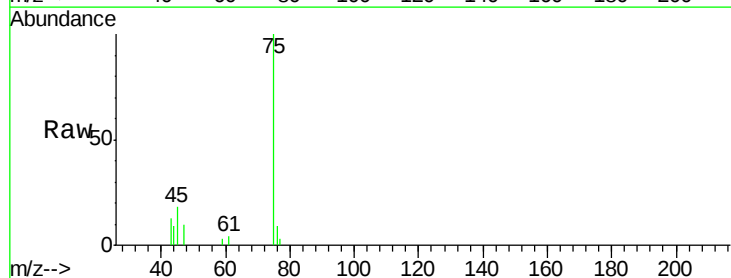
Instrument :
MSVOA_N
ClientSampleId :
SP1-2

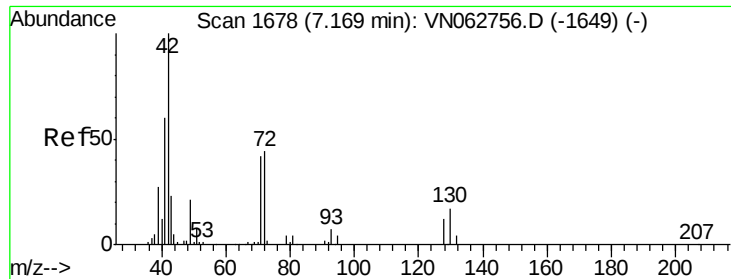
Tgt Ion:	84	Resp:	7368
Ion	Ratio	Lower	Upper
84	100		
49	110.3	103.4	155.2
51	34.0	29.3	43.9
86	55.3	49.9	74.9



#25
2-Butanone
Concen: 1.386 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. -0.00 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

Tgt Ion:	43	Resp:	1579
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.1	31.7#

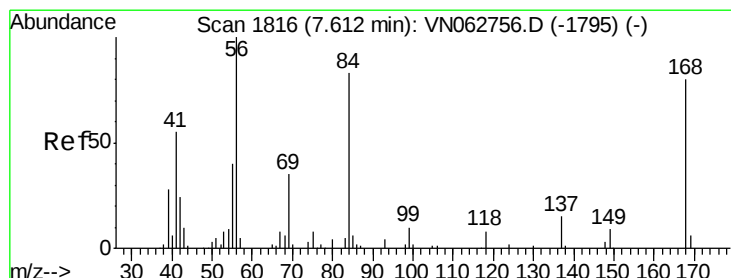
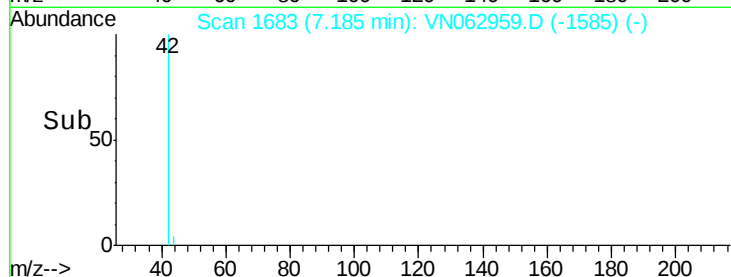
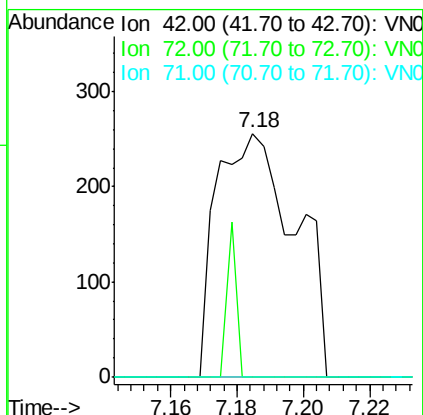
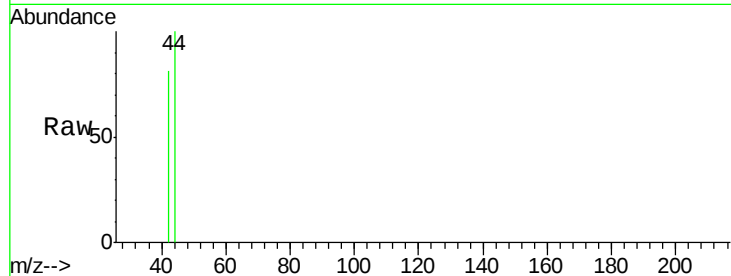




#29
Tetrahydrofuran
Concen: 0.570 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

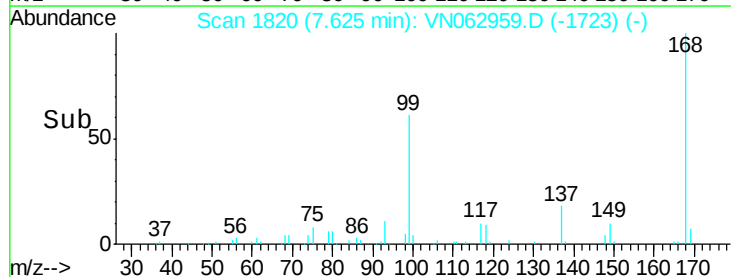
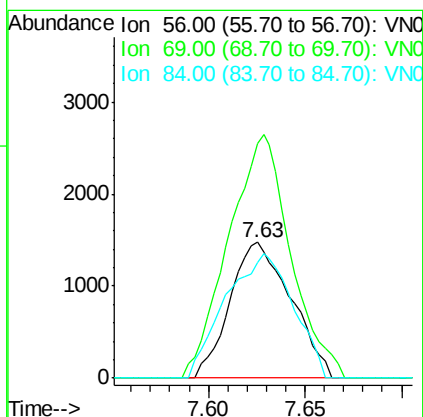
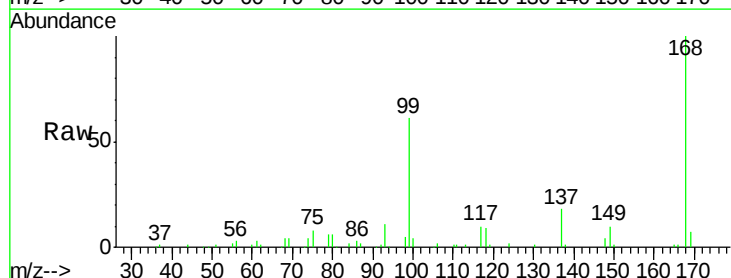
Instrument :
MSVOA_N
ClientSampled :
SP1-2

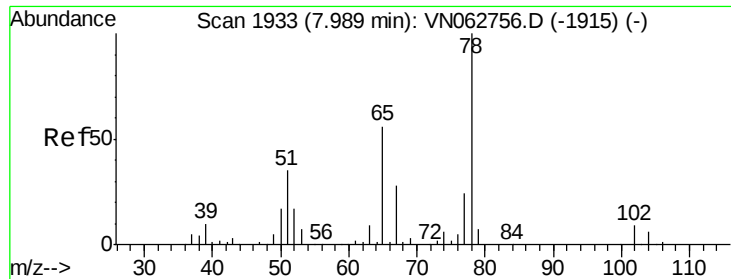
Tgt Ion: 42 Resp: 422
Ion Ratio Lower Upper
42 100
72 7.3 35.0 52.4#
71 0.0 33.2 49.8#



#31
Cyclohexane
Concen: 1.199 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

Tgt Ion: 56 Resp: 3235
Ion Ratio Lower Upper
56 100
69 162.4 28.1 42.1#
84 85.4 66.8 100.2





#33

1,2-Dichloroethane-d4

Concen: 51.734 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampled :

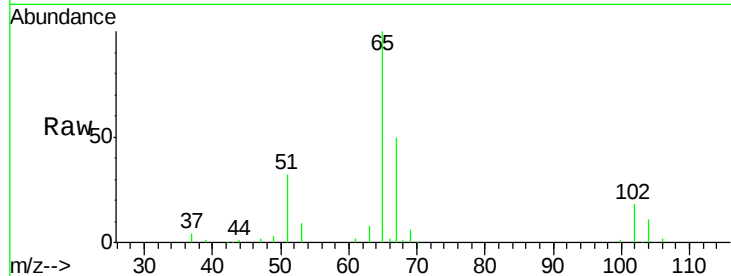
SP1-2

Tgt Ion: 65 Resp: 115137

Ion Ratio Lower Upper

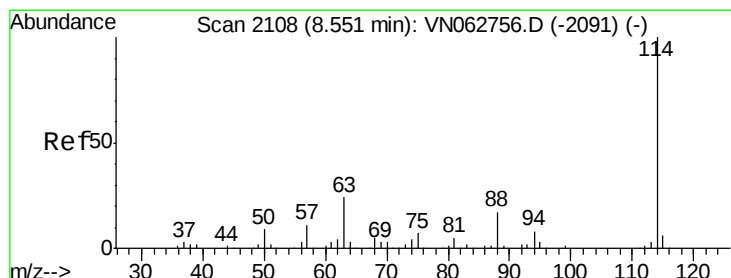
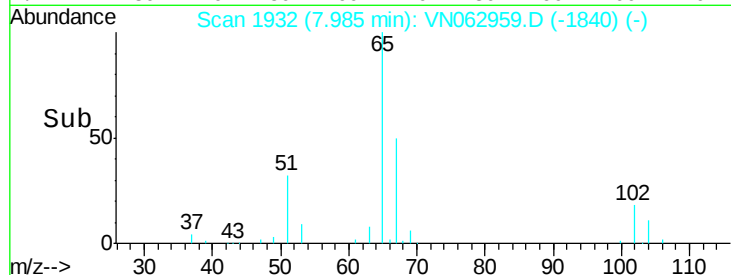
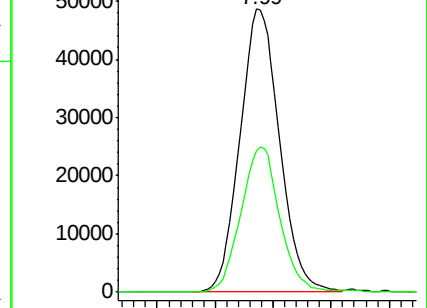
65 100

67 50.6 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062756.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062756.D (-1915) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

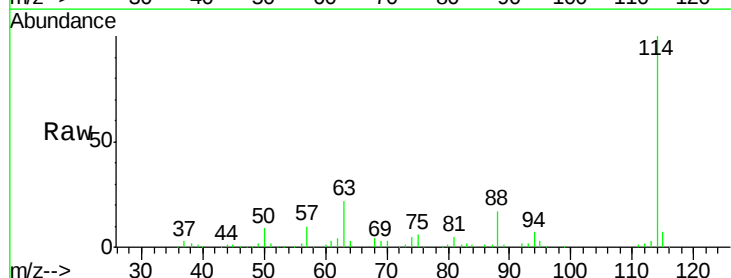
Tgt Ion: 114 Resp: 245706

Ion Ratio Lower Upper

114 100

63 22.0 0.0 47.6

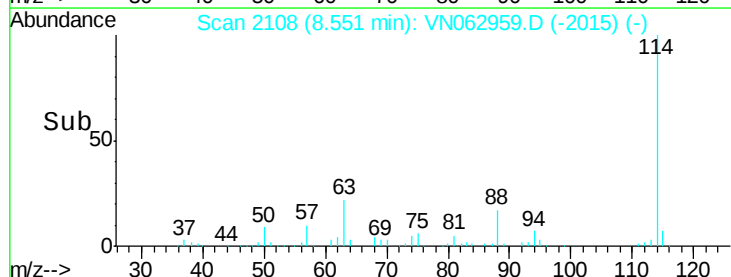
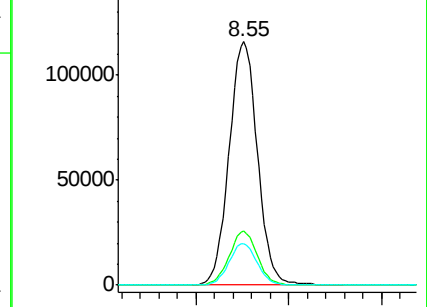
88 17.2 0.0 34.4

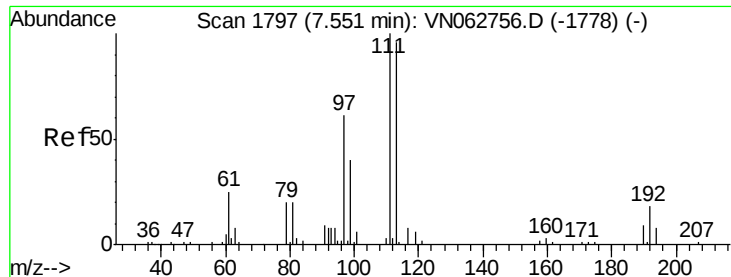


Abundance Ion 113.90 (113.60 to 114.60): VN062756.D (-2091) (-)

Ion 63.00 (62.70 to 63.70): VN062756.D (-2091) (-)

Ion 87.90 (87.60 to 88.60): VN062756.D (-2091) (-)

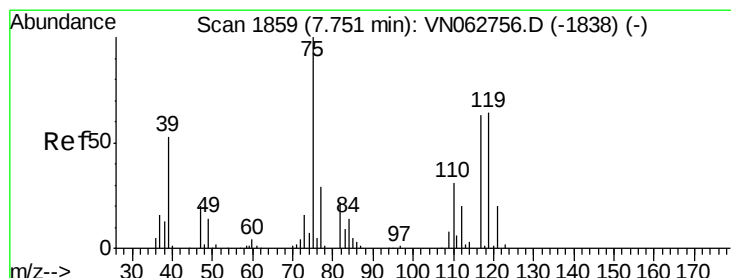
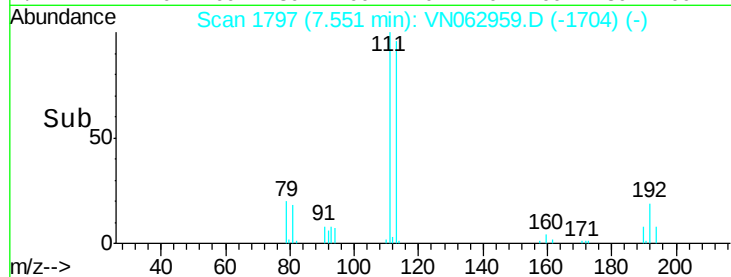
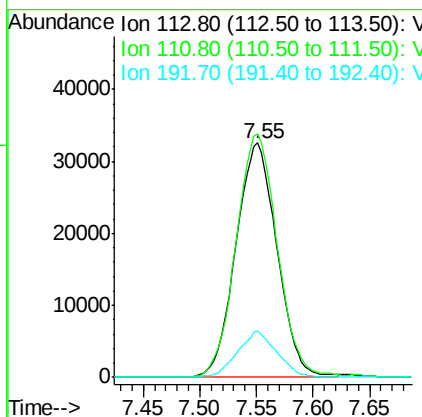
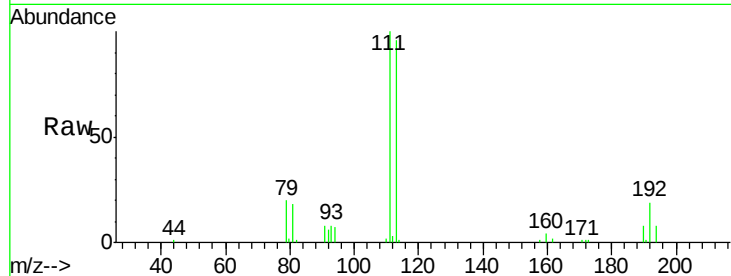




#35
 Dibromofluoromethane
 Concen: 49.015 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

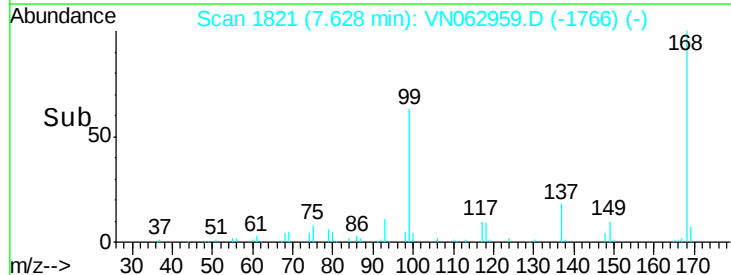
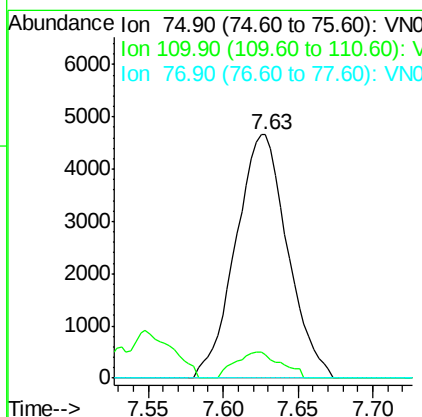
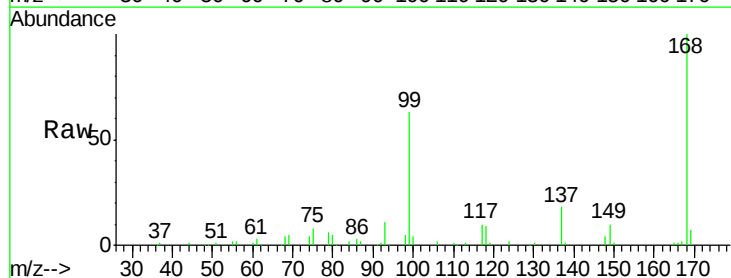
Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-2

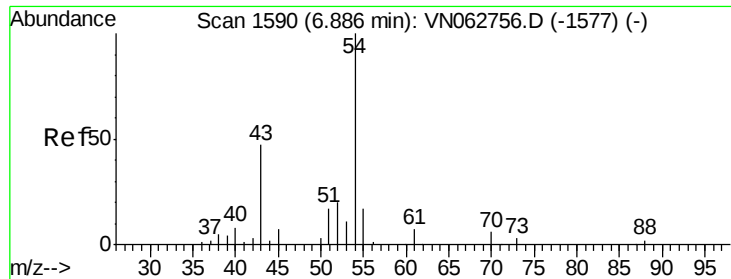
Tgt Ion:113 Resp: 82383
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.8 122.6
 192 18.8 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.685 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

Tgt Ion: 75 Resp: 11209
 Ion Ratio Lower Upper
 75 100
 110 9.4 15.6 46.7#
 77 0.0 24.1 36.1#

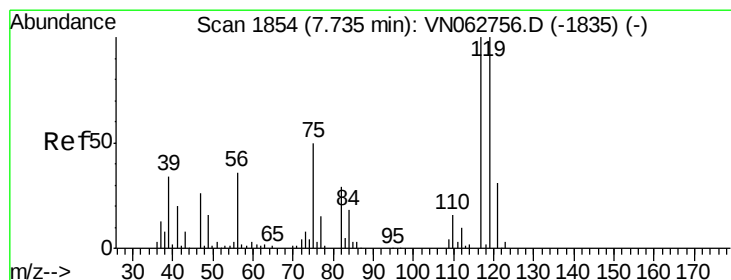
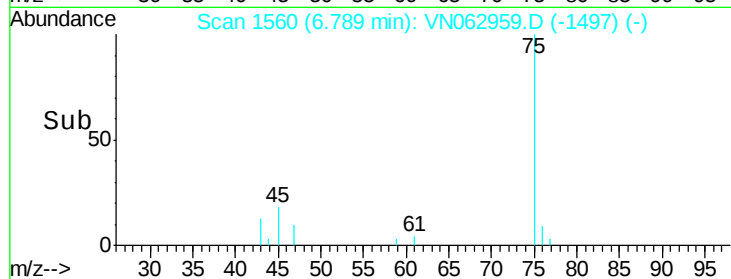
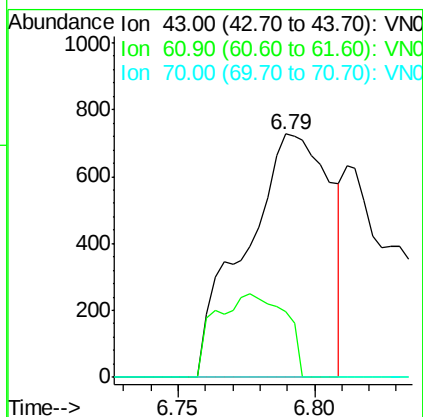
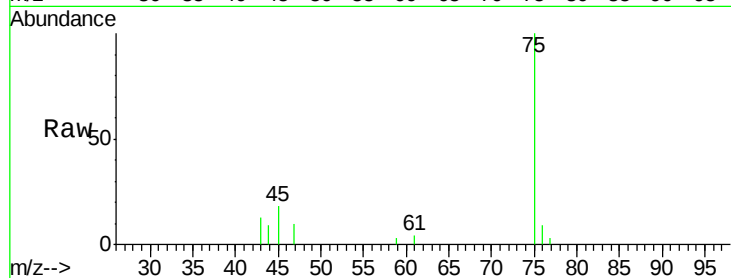




#37
 Ethyl Acetate
 Concen: 0.632 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. -0.10 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

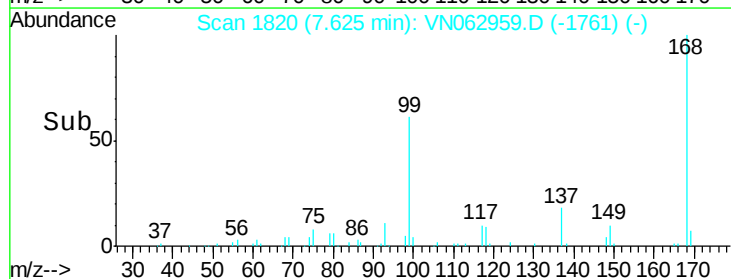
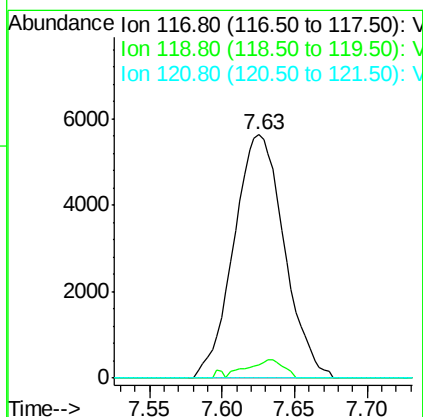
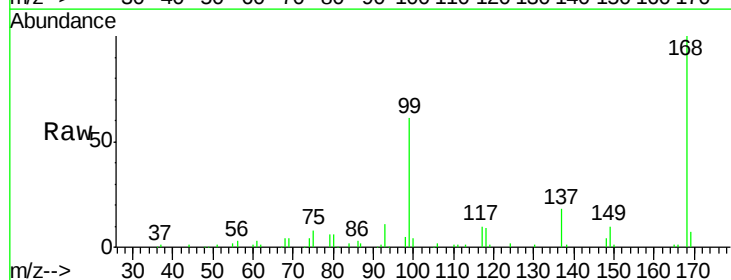
Instrument :
 MSVOA_N
 ClientSampleID :
 SP1-2

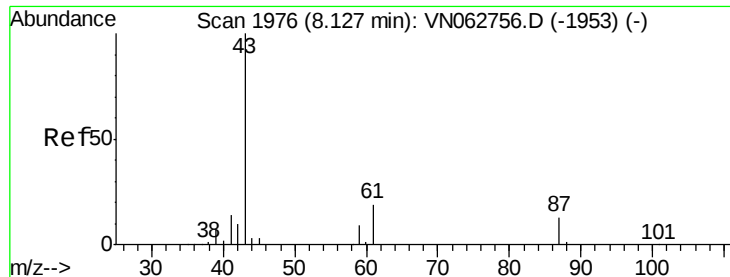
Tgt Ion: 43 Resp: 1579
 Ion Ratio Lower Upper
 43 100
 61 27.8 12.1 18.1#
 70 0.0 8.3 12.5#



#38
 Carbon Tetrachloride
 Concen: 4.826 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

Tgt Ion: 117 Resp: 13655
 Ion Ratio Lower Upper
 117 100
 119 5.2 79.4 119.2#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 8.265 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

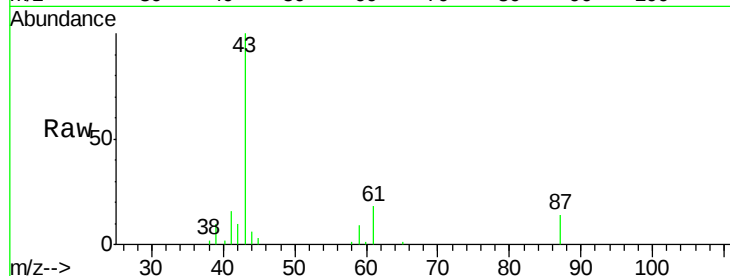
Tgt Ion: 43 Resp: 34453

Ion Ratio Lower Upper

43 100

61 19.6 15.8 23.6

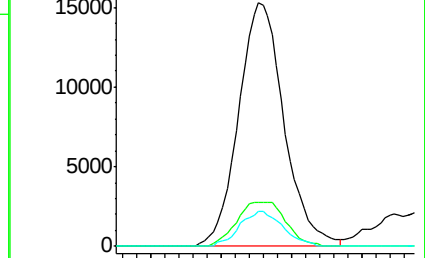
87 13.6 9.9 14.9



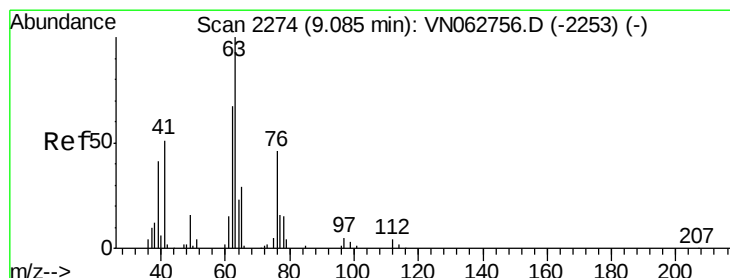
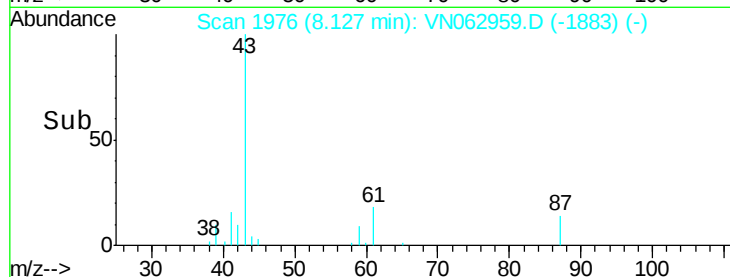
Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062756.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062756.D (-1953) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.201 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN062959.D

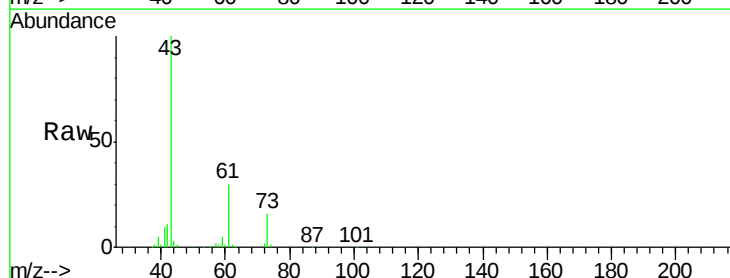
Acq: 15 Aug 2020 1:47

Tgt Ion: 63 Resp: 388

Ion Ratio Lower Upper

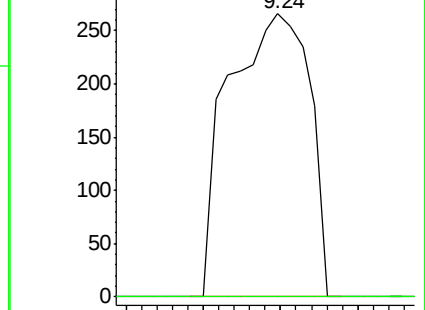
63 100

65 0.0 23.5 35.3#

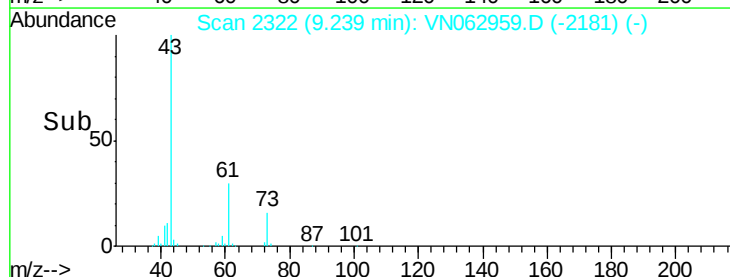


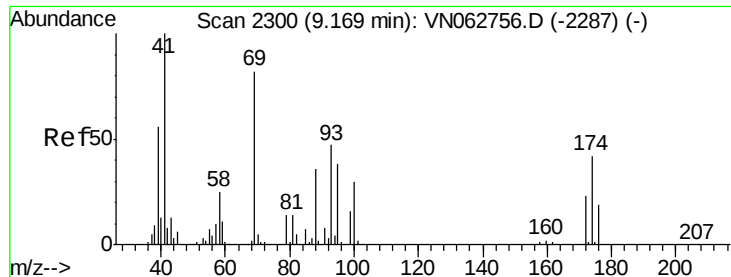
Abundance Ion 62.90 (62.60 to 63.60): VN062756.D (-2253) (-)

Ion 64.90 (64.60 to 65.60): VN062756.D (-2253) (-)



Time-->

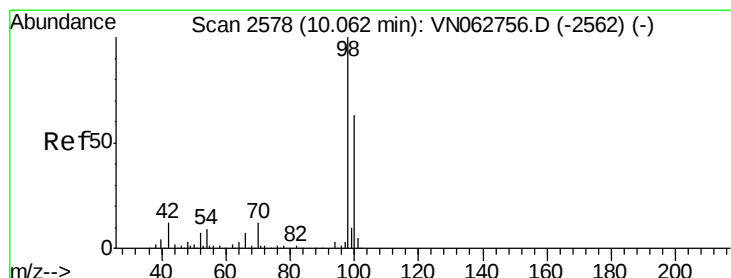
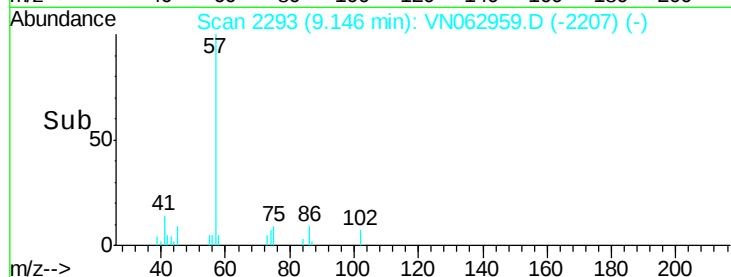
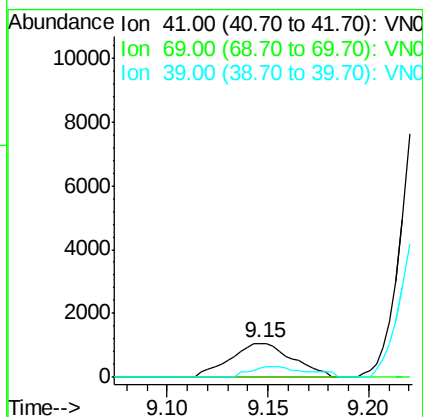
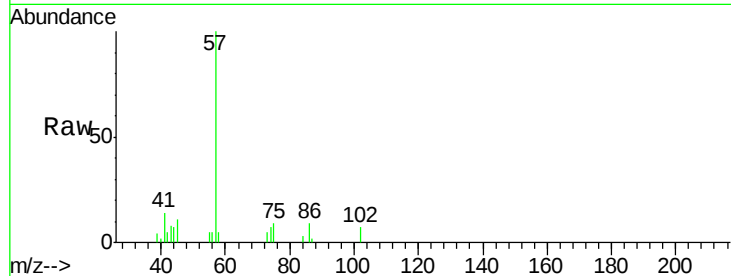




#48
Methyl methacrylate
Concen: 1.119 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

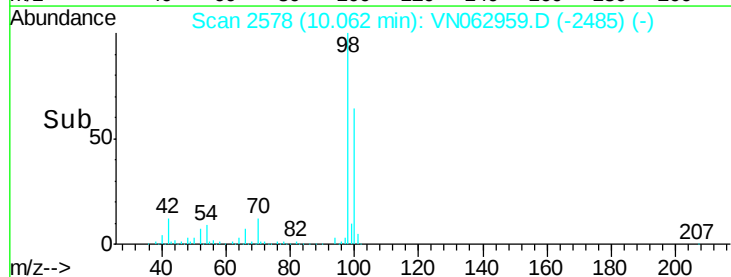
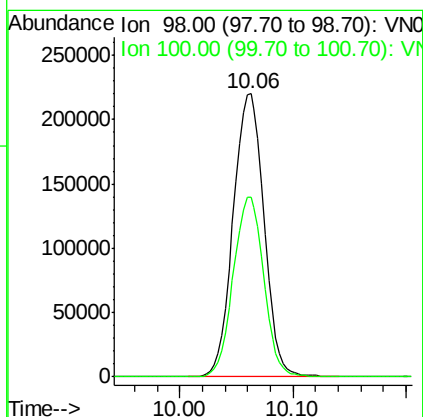
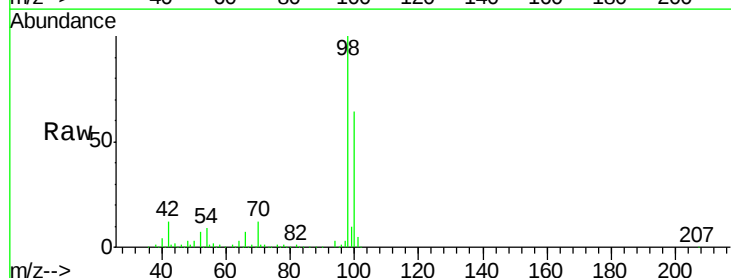
Instrument :
MSVOA_N
ClientSampleId :
SP1-2

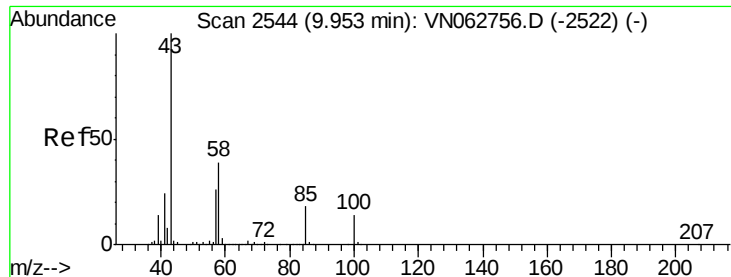
Tgt Ion: 41 Resp: 2295
Ion Ratio Lower Upper
41 100
69 0.0 67.4 101.2#
39 0.0 47.6 71.4#



#50
Toluene-d8
Concen: 63.751 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. -0.00 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

Tgt Ion: 98 Resp: 418322
Ion Ratio Lower Upper
98 100
100 62.9 50.9 76.3

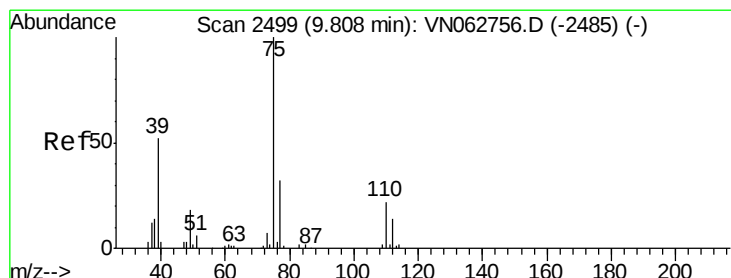
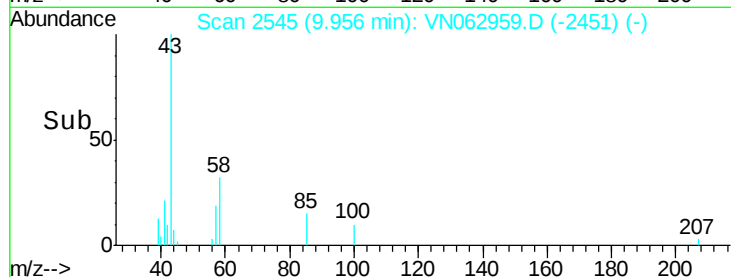
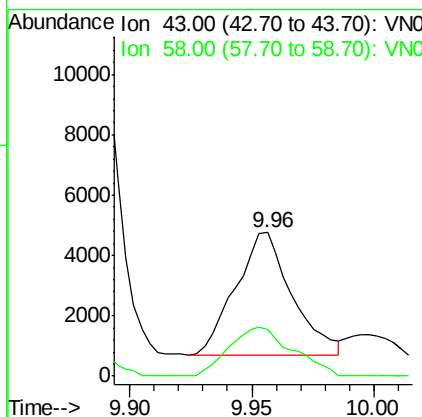
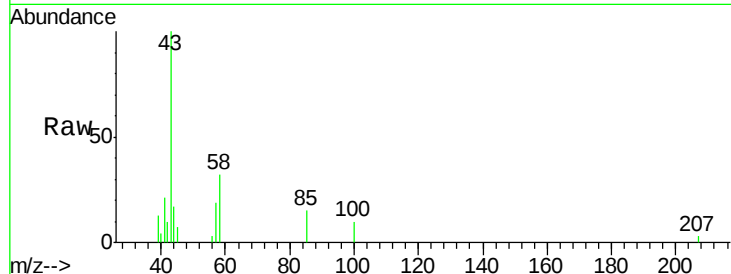




#51
 4-Methyl-2-Pentanone
 Concen: 2.444 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

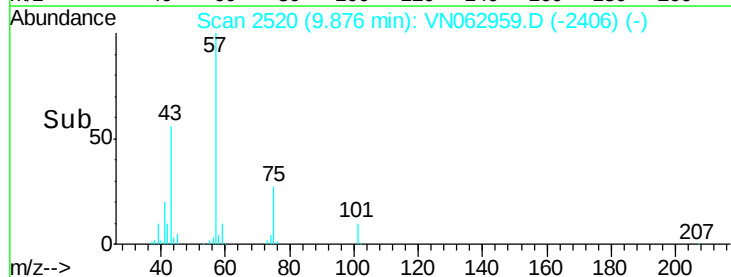
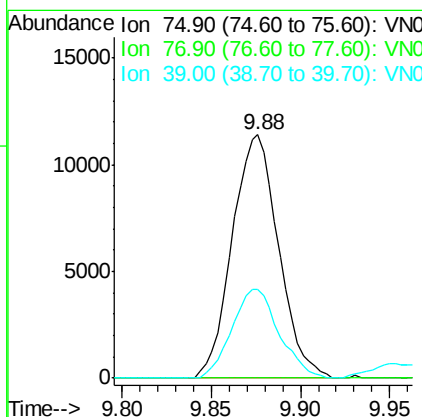
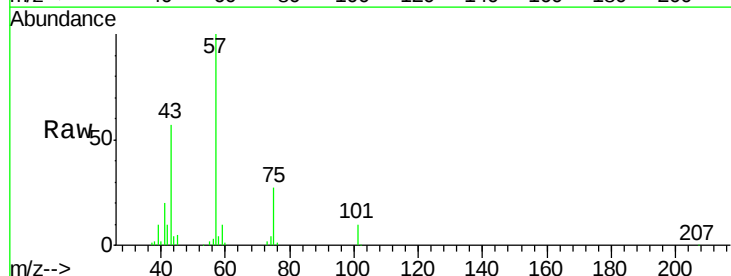
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-2

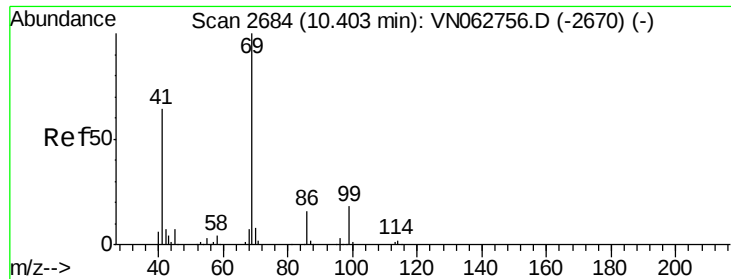
Tgt Ion: 43 Resp: 6592
 Ion Ratio Lower Upper
 43 100
 58 44.3 31.1 46.7



#54
 cis-1,3-Dichloropropene
 Concen: 6.576 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062959.D
 Acq: 15 Aug 2020 1:47

Tgt Ion: 75 Resp: 20649
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 36.3 41.9 62.9#





#56

Ethyl methacrylate

Concen: 0.649 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.11 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

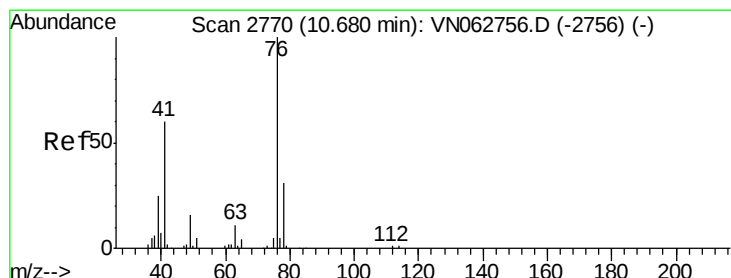
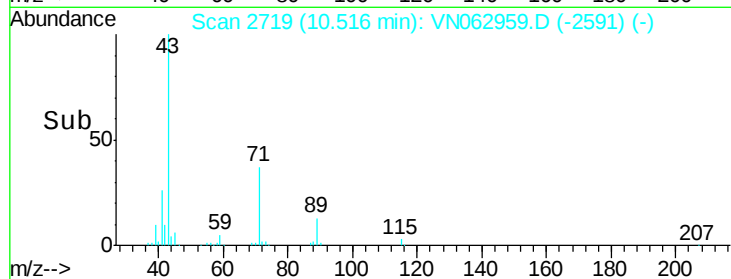
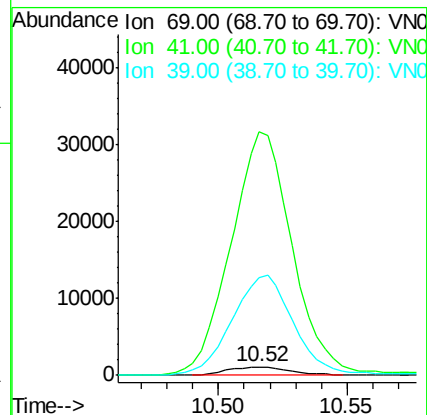
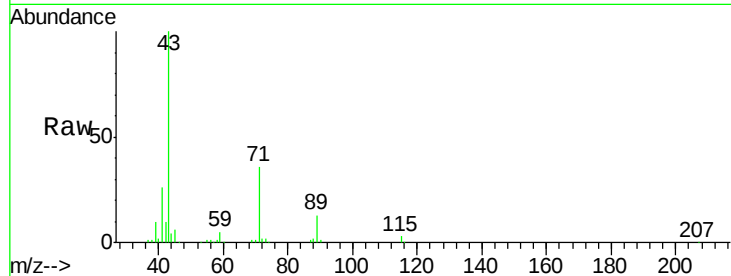
Tgt Ion: 69 Resp: 1838

Ion Ratio Lower Upper

69 100

41 2872.3 52.2 78.2#

39 1183.0 30.9 46.3#



#57

1,3-Dichloropropane

Concen: 0.479 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062959.D

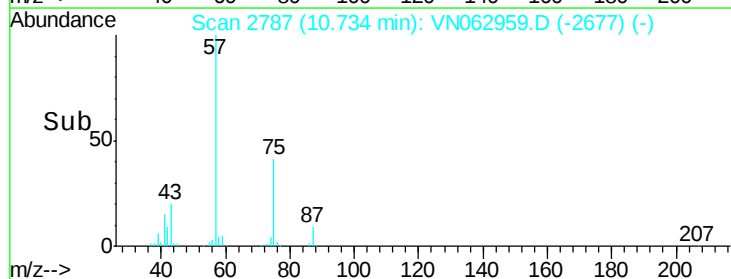
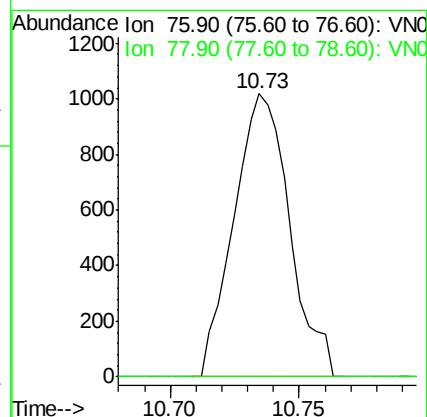
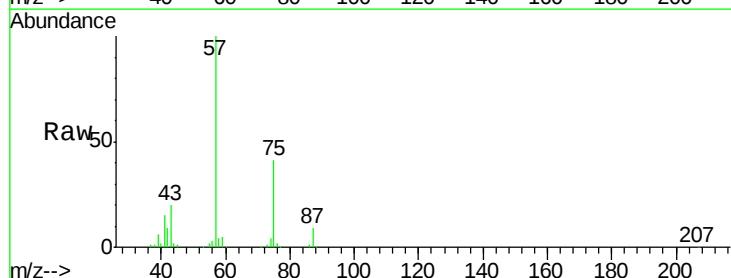
Acq: 15 Aug 2020 1:47

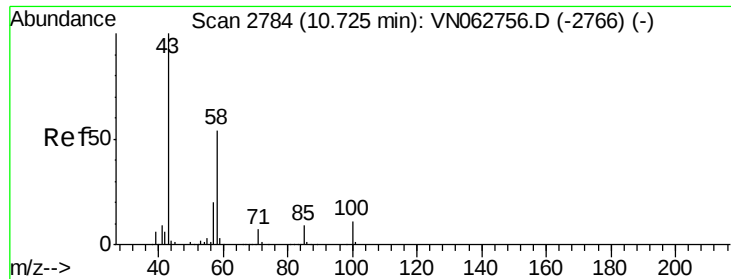
Tgt Ion: 76 Resp: 1532

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#

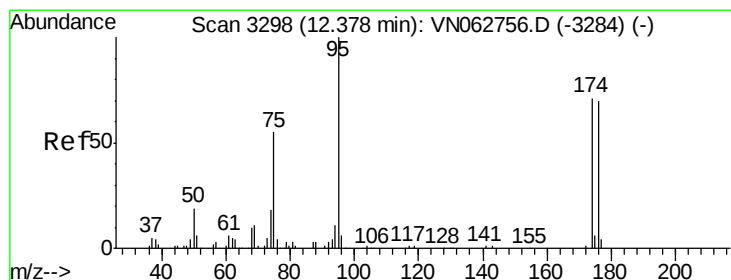
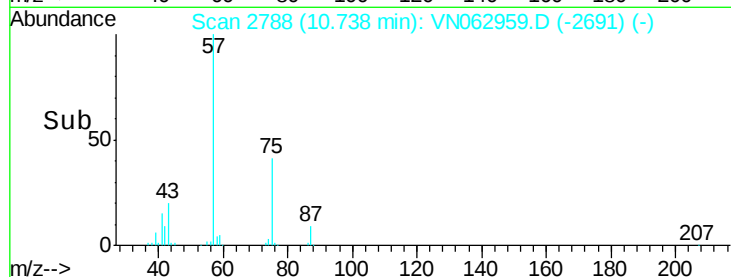
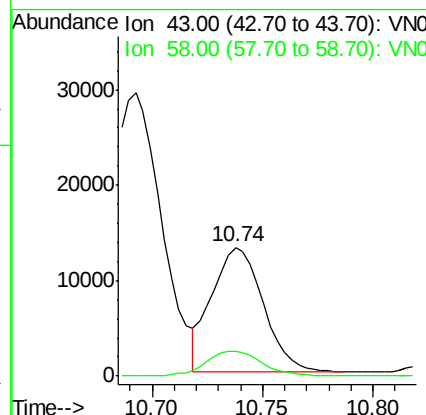
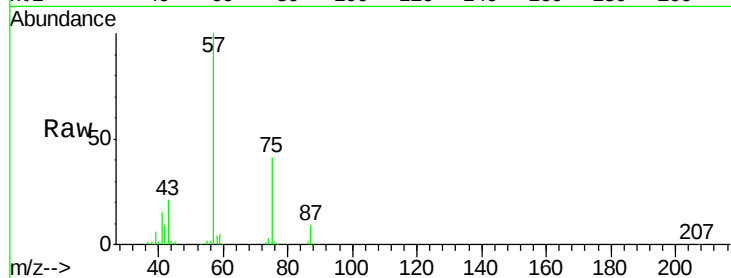




#59
2-Hexanone
Concen: 10.524 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

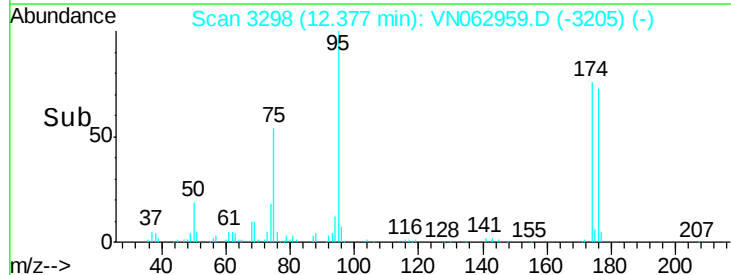
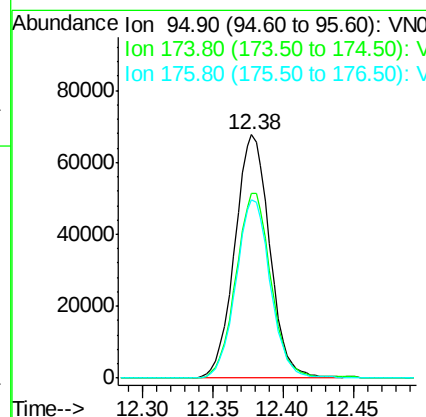
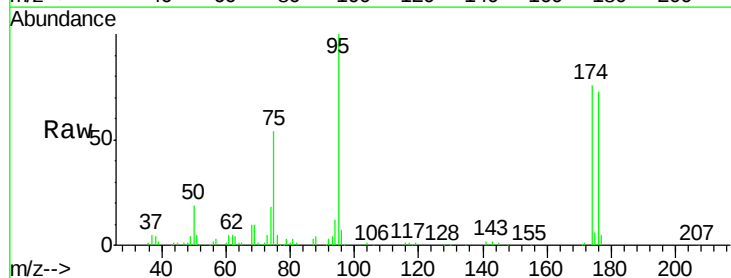
Instrument :
MSVOA_N
ClientSampled :
SP1-2

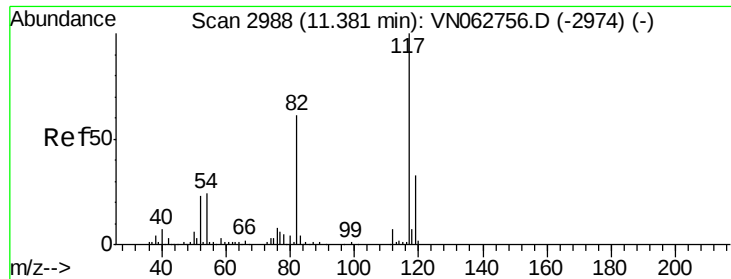
Tgt Ion: 43 Resp: 21174
Ion Ratio Lower Upper
43 100
58 21.8 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 47.378 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

Tgt Ion: 95 Resp: 117485
Ion Ratio Lower Upper
95 100
174 76.3 0.0 144.8
176 72.2 0.0 142.2

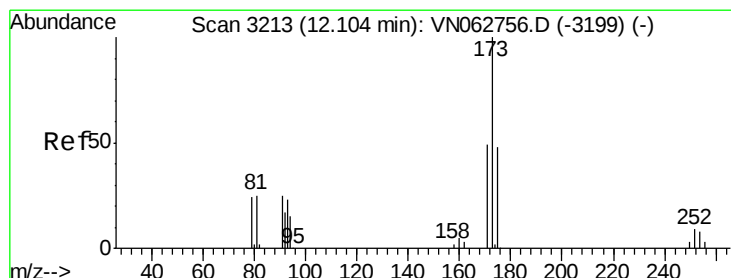
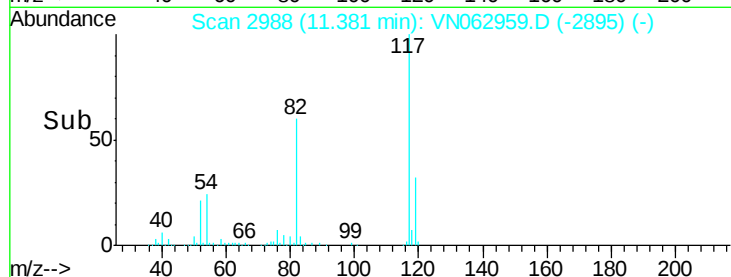
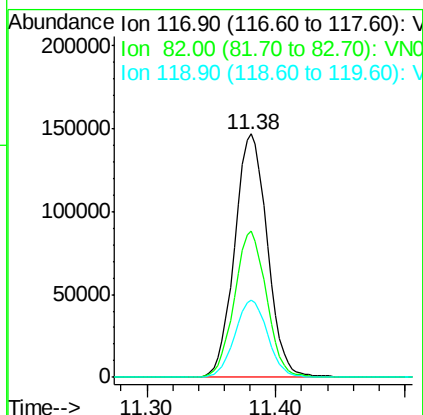
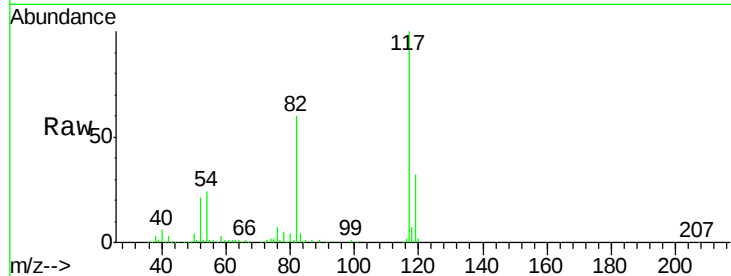




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

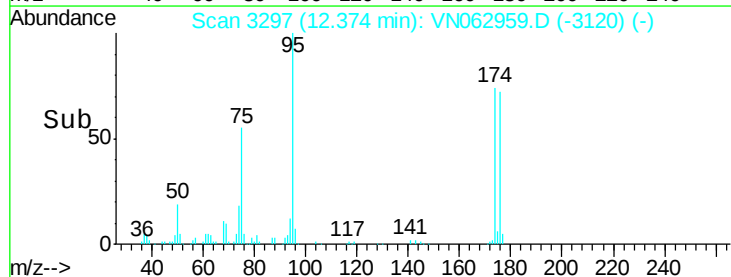
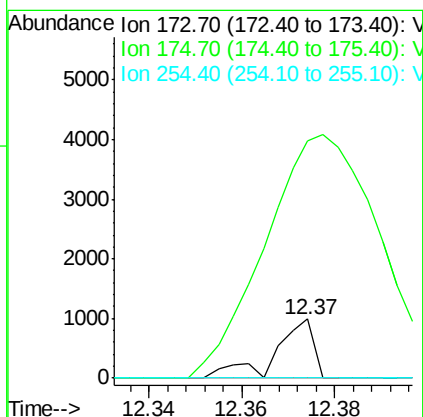
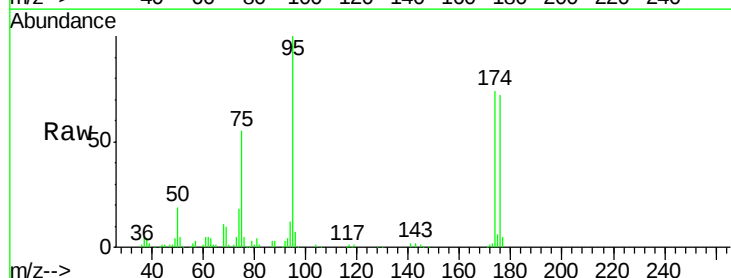
Instrument :
MSVOA_N
ClientSampleId :
SP1-2

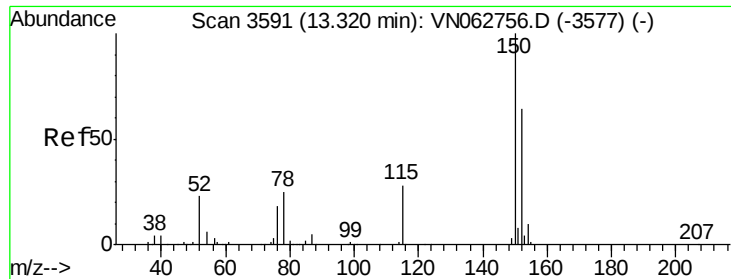
Tgt Ion:117 Resp: 259439
Ion Ratio Lower Upper
117 100
82 59.9 49.0 73.4
119 31.8 26.2 39.2



#71
Bromoform
Concen: 0.319 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062959.D
Acq: 15 Aug 2020 1:47

Tgt Ion:173 Resp: 568
Ion Ratio Lower Upper
173 100
175 1110.2 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: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

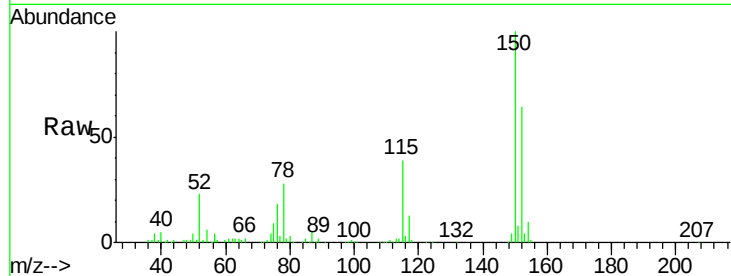
Tgt Ion:152 Resp: 124117

Ion Ratio Lower Upper

152 100

115 61.1 31.6 94.8

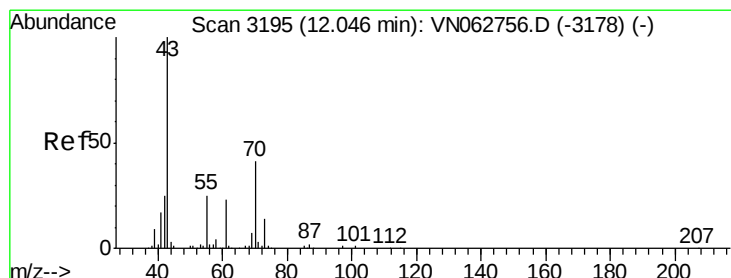
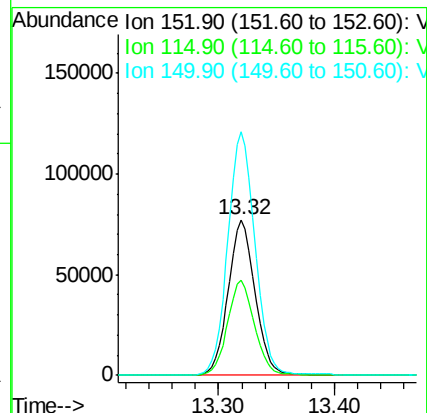
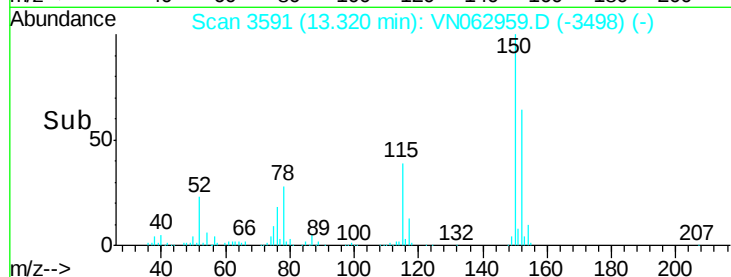
150 158.8 0.0 349.2



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: 0.401 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Tgt Ion: 43 Resp: 1519

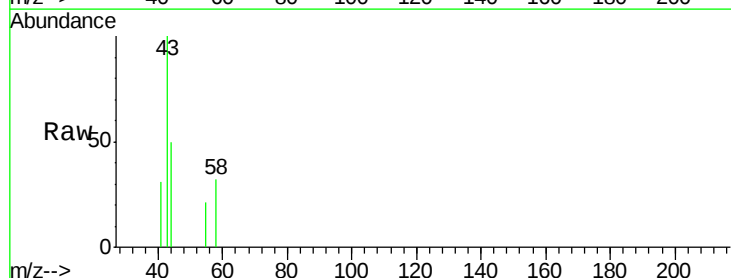
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 4.2 20.2 30.2#

61 0.0 18.2 27.4#

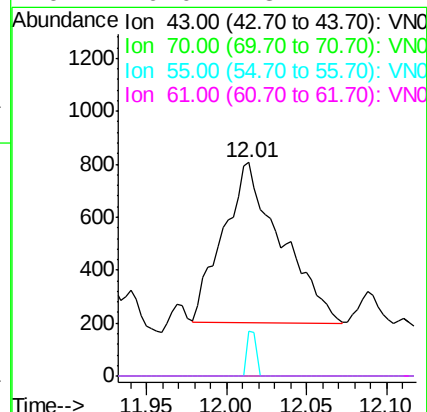
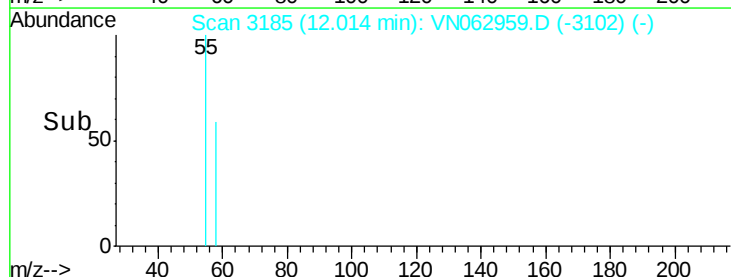


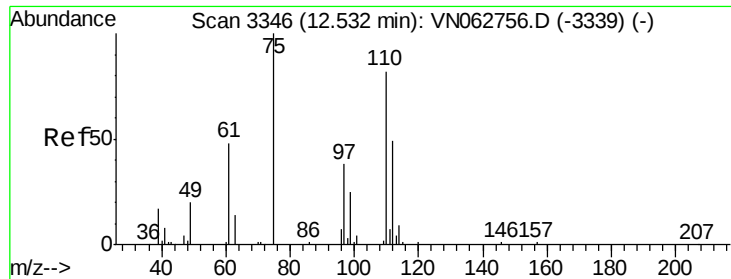
Abundance Ion 43.00 (42.70 to 43.70): V

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: 18.741 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

Instrument :

MSVOA_N

ClientSampled :

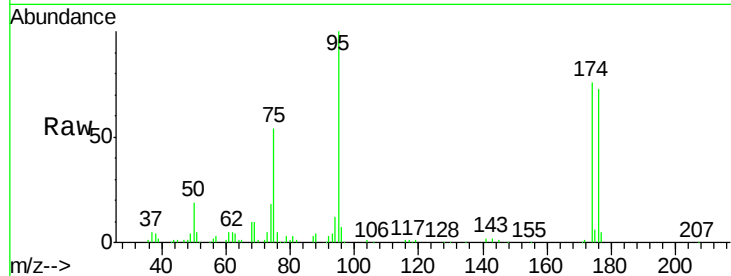
SP1-2

Tgt Ion: 75 Resp: 62731

Ion Ratio Lower Upper

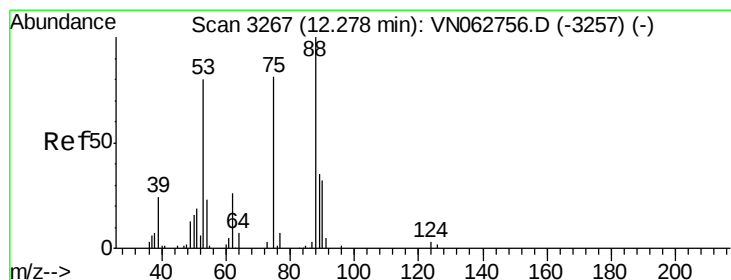
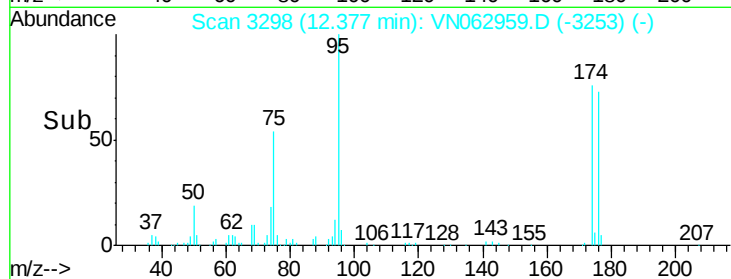
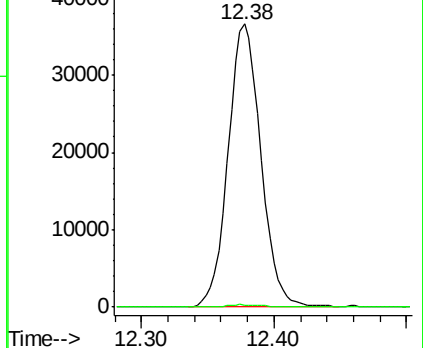
75 100

77 0.8 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: 57.210 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062959.D

Acq: 15 Aug 2020 1:47

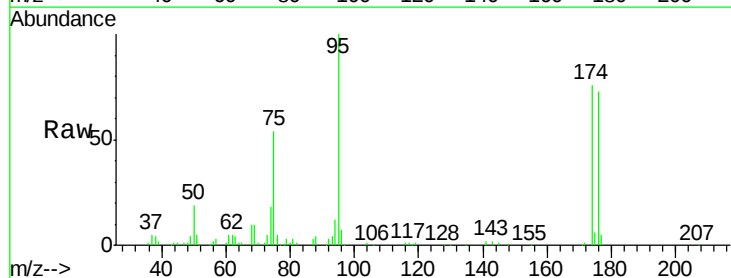
Tgt Ion: 75 Resp: 62731

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

