

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062988.D
 Acq On : 17 Aug 2020 23:09
 Operator : JC/MD
 Sample : L3659-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-2

Quant Time: Aug 18 05:55:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 17:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	191546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	304560	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	328681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	123713	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	108192	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
35) Dibromofluoromethane	7.55	113	100927	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
50) Toluene-d8	10.06	98	397087	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
62) 4-Bromofluorobenzene	12.38	95	136109	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	

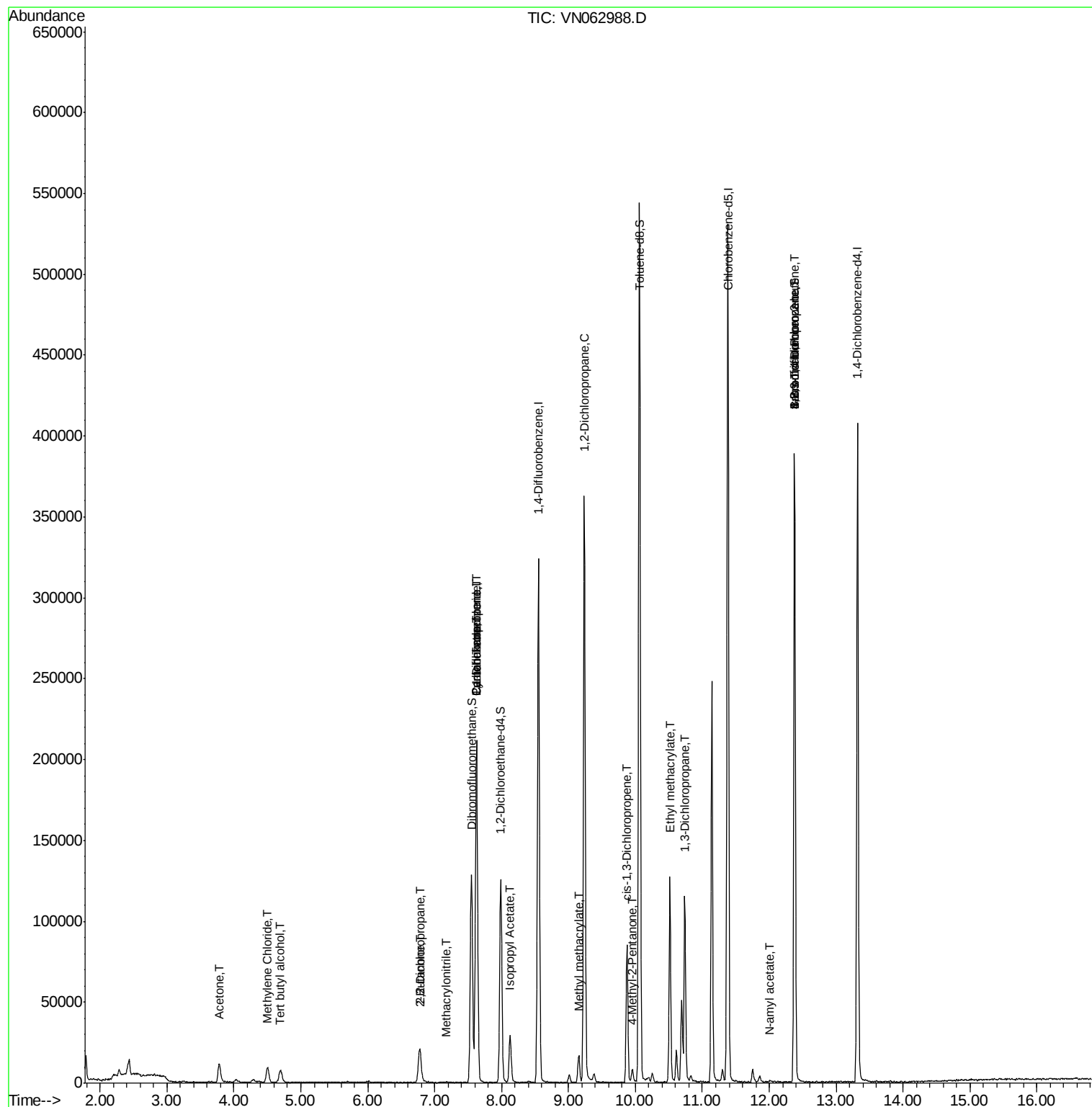
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	7747	22.342	ug/l #	74
16) Acetone	3.78	43	19723	25.104	ug/l	90
18) Methyl Acetate	4.29	43	3258	Below Cal	#	70
20) Methylene Chloride	4.50	84	7675	4.604	ug/l	97
25) 2-Butanone	6.80	43	1984	1.752	ug/l	91
26) 2,2-Dichloropropane	6.78	77	1532	0.577	ug/l #	51
29) Tetrahydrofuran	7.18	42	627	Below Cal	#	29
31) Cyclohexane	7.63	56	3010	0.962	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	12089	4.627	ug/l #	47
38) Carbon Tetrachloride	7.63	117	16456	5.962	ug/l #	15
41) Methacrylonitrile	7.17	41	240	0.205	ug/l #	8
43) Isopropyl Acetate	8.13	43	33454	8.822	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	504	0.219	ug/l #	44
48) Methyl methacrylate	9.15	41	2600	1.402	ug/l #	8
51) 4-Methyl-2-Pentanone	9.95	43	4764	1.878	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	16535	4.884	ug/l #	67
56) Ethyl methacrylate	10.52	69	927	4.005	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1116	0.320	ug/l #	42
59) 2-Hexanone	10.74	43	14935	Below Cal	#	52
71) Bromoform	12.38	173	903	0.413	ug/l #	1
74) N-amyl acetate	12.01	43	1406	0.480	ug/l #	39
76) 1,2,3-Trichloropropane	12.38	75	62976	25.731	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	62976	69.021	ug/l #	16

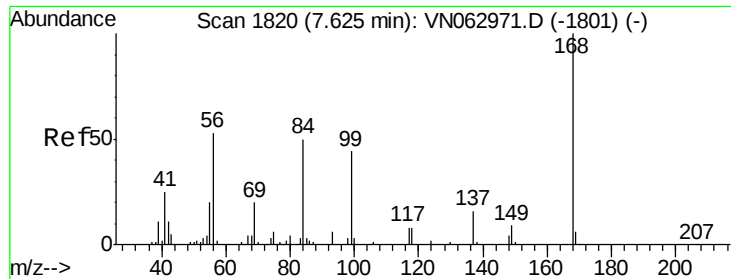
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081720\
Data File : VN062988.D
Acq On : 17 Aug 2020 23:09
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SP1-2

Quant Time: Aug 18 05:55:10 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 17 17:31:03 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: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampled :

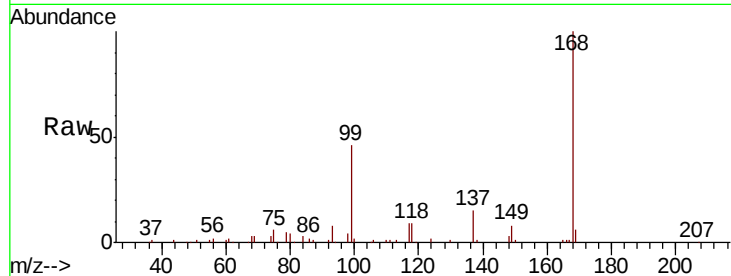
SP1-2

Tot Ion:168 Resp: 191546

Ion Ratio Lower Upper

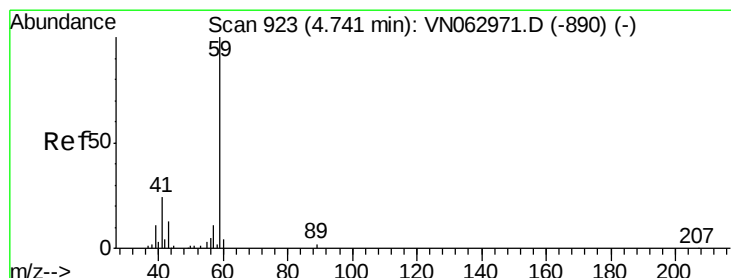
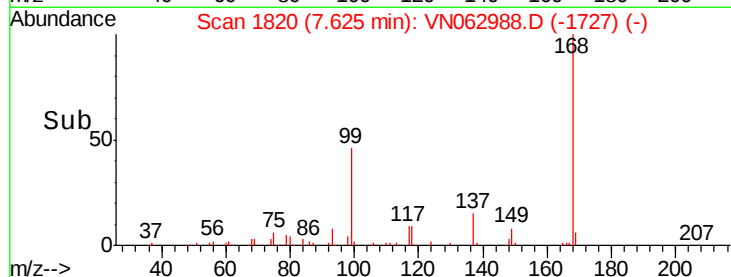
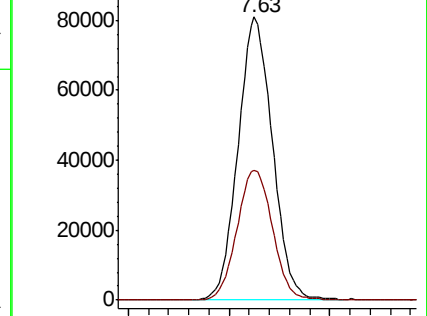
168 100

99 46.0 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 22.342 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.04 min

Lab File: VN062988.D

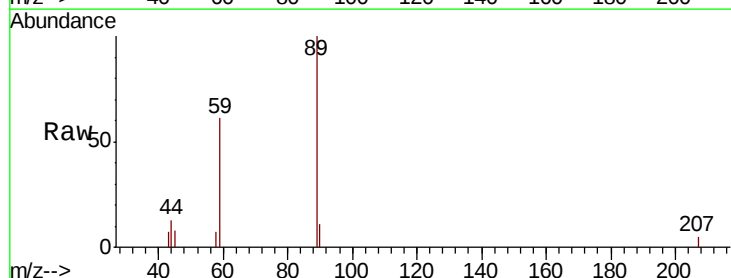
Acq: 17 Aug 2020 23:09

Tgt Ion: 59 Resp: 7747

Ion Ratio Lower Upper

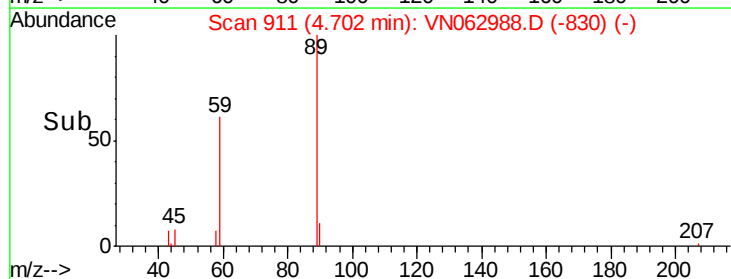
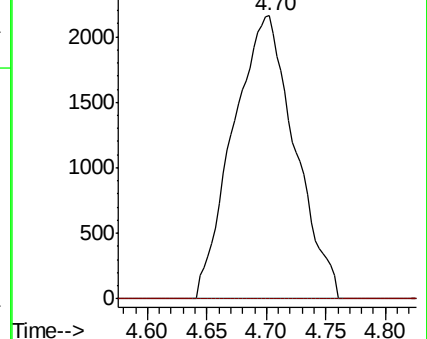
59 100

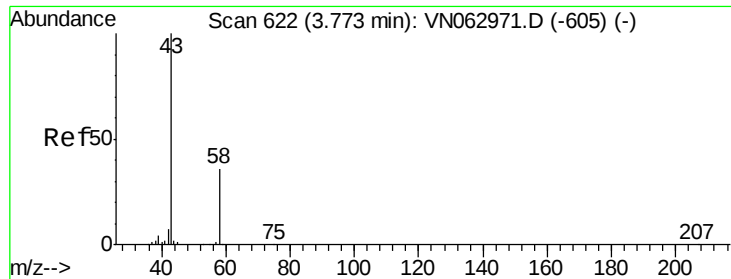
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 25.104 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampleId :

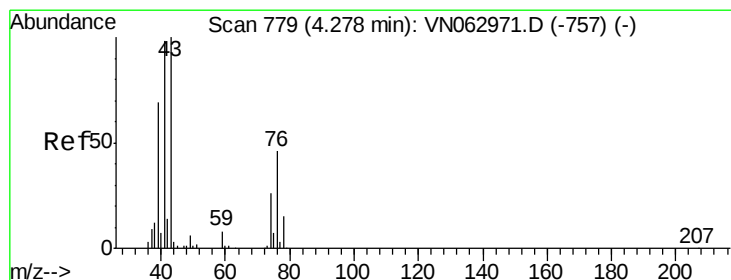
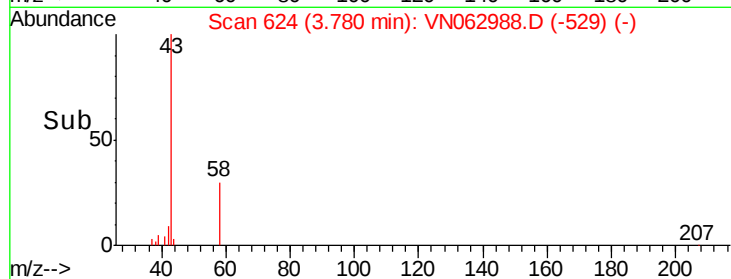
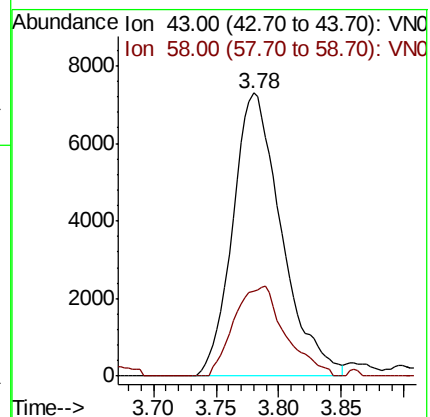
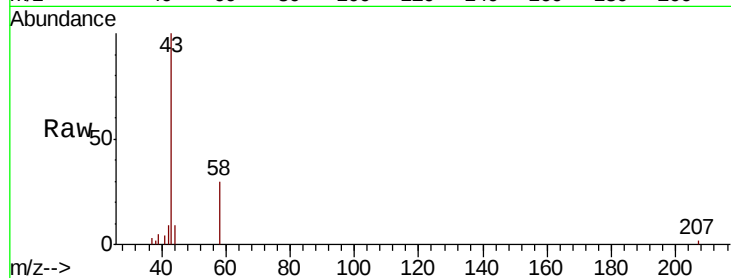
SP1-2

Tot Ion: 43 Resp: 19723

Ion Ratio Lower Upper

43 100

58 30.1 28.7 43.1



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062988.D

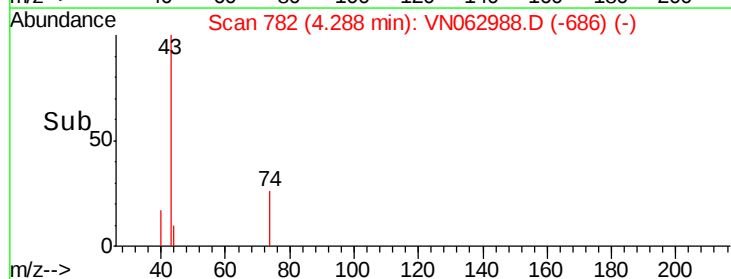
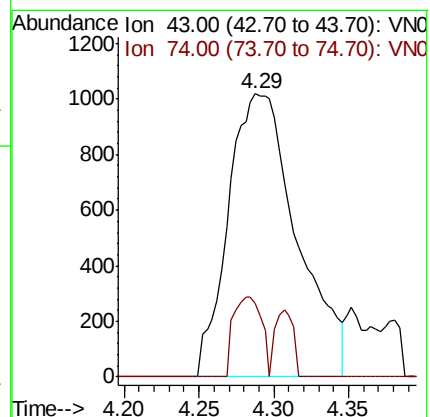
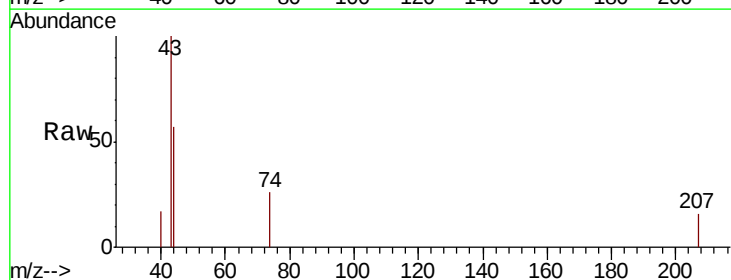
Acq: 17 Aug 2020 23:09

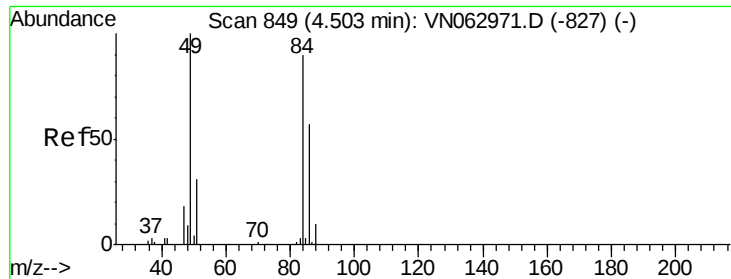
Tgt Ion: 43 Resp: 3258

Ion Ratio Lower Upper

43 100

74 11.4 21.6 32.4#

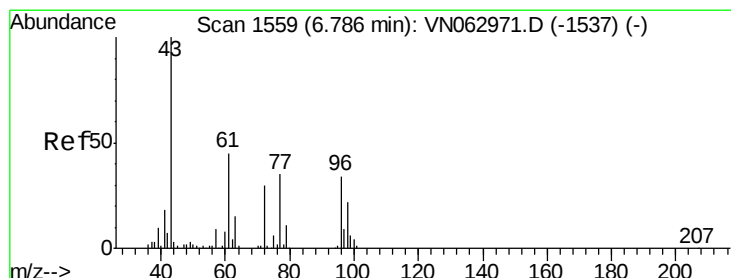
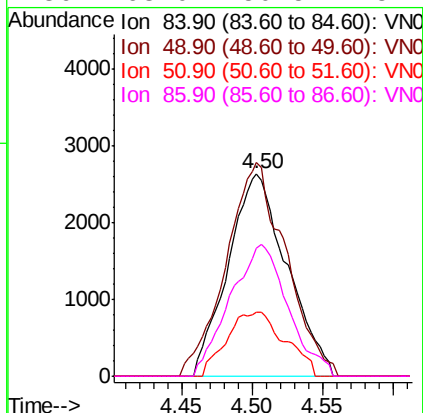
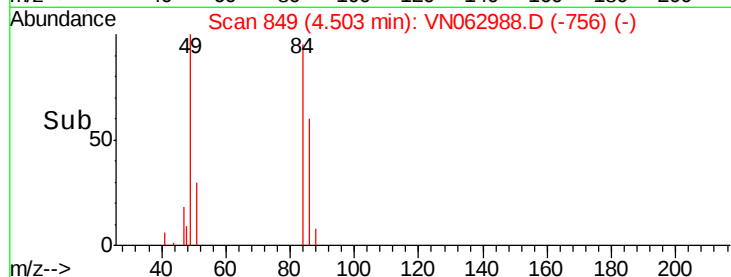
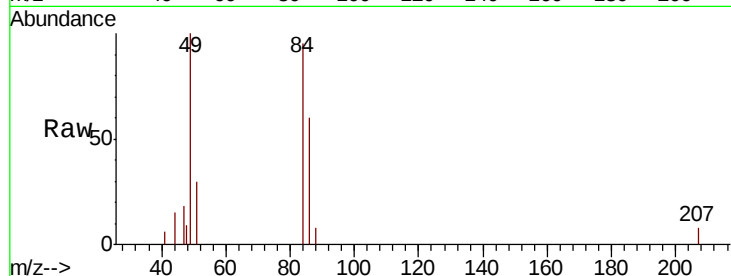




#20
Methvlene Chloride
Concen: 4.604 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

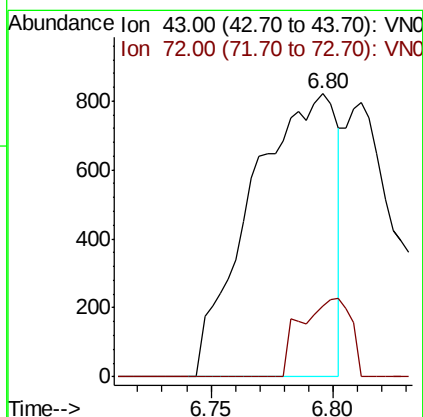
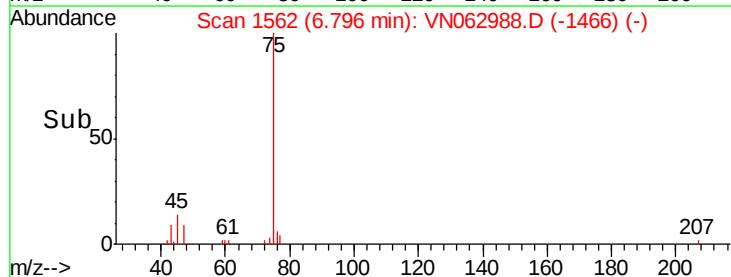
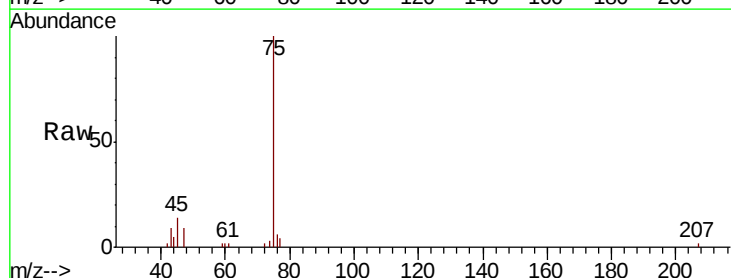
Instrument :
MSVOA_N
ClientSampled :
SP1-2

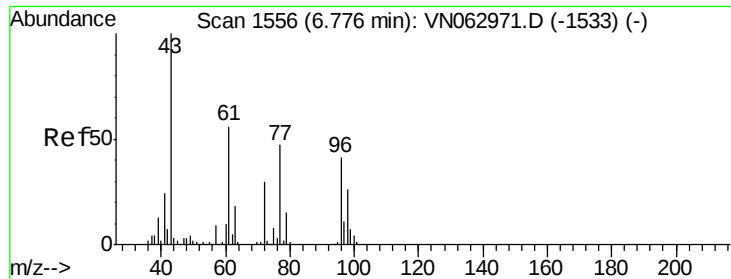
Tot Ion:	84	Resp:	7675
Ion	Ratio	Lower	Upper
84	100		
49	105.4	88.8	133.2
51	31.8	27.1	40.7
86	63.0	50.5	75.7



#25
2-Butanone
Concen: 1.752 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

Tgt Ion:	43	Resp:	1984
Ion	Ratio	Lower	Upper
43	100		
72	24.8	23.9	35.9





#26

2,2-Dichloropropane

Concen: 0.577 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampled :

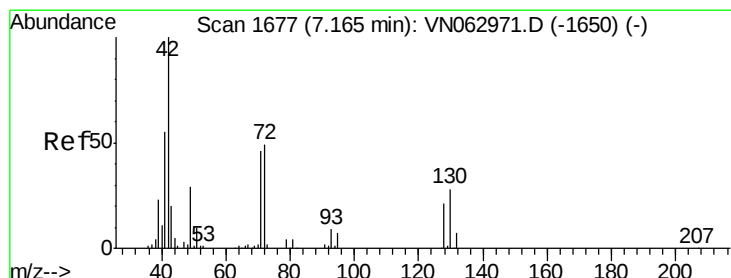
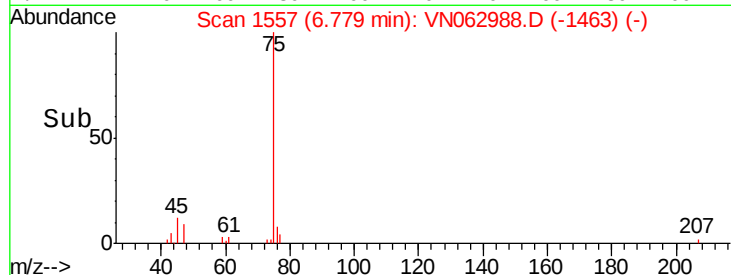
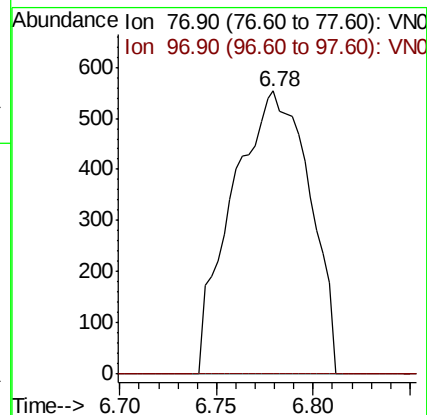
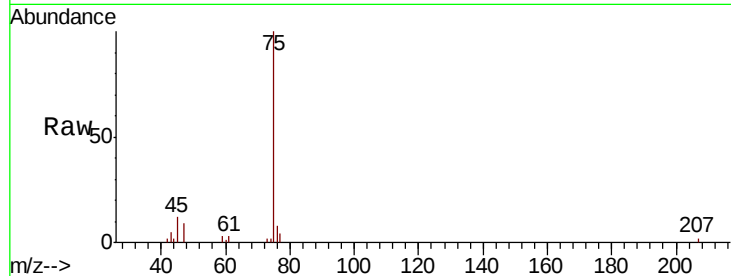
SP1-2

Tot Ion: 77 Resp: 1532

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 7.18 min Scan# 1682

Delta R.T. 0.02 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

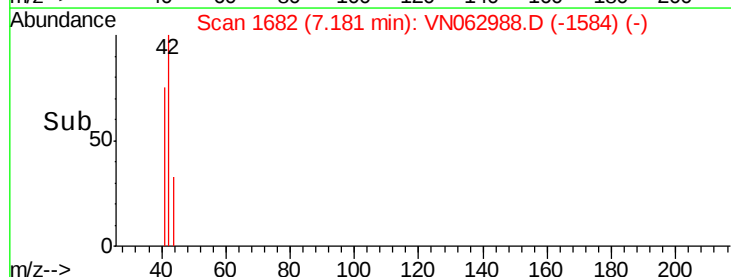
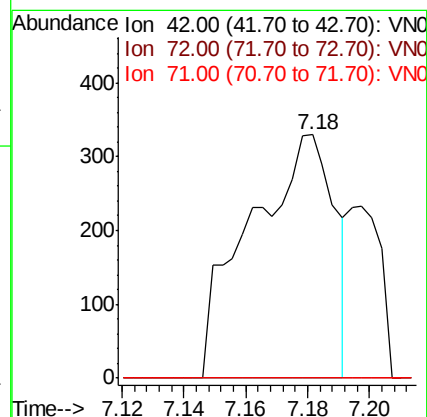
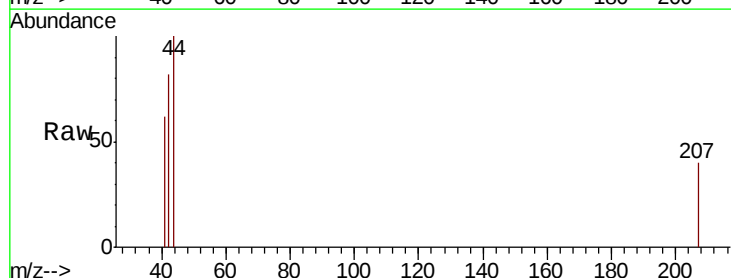
Tgt Ion: 42 Resp: 627

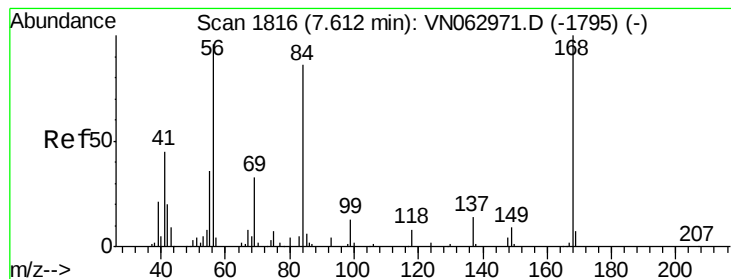
Ion Ratio Lower Upper

42 100

72 0.0 39.4 59.2#

71 0.0 37.2 55.8#





#31

Cyclohexane

Concen: 0.962 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampled :

SP1-2

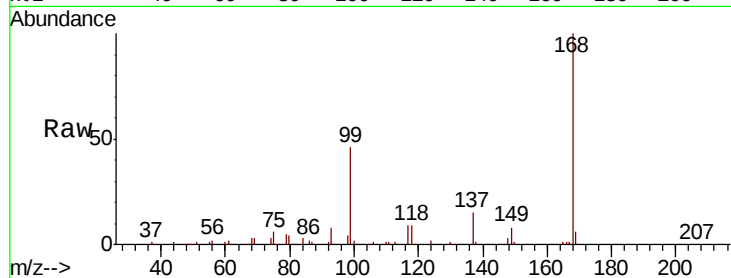
Tot Ion: 56 Resp: 3010

Ion Ratio Lower Upper

56 100

69 217.0 27.4 41.2#

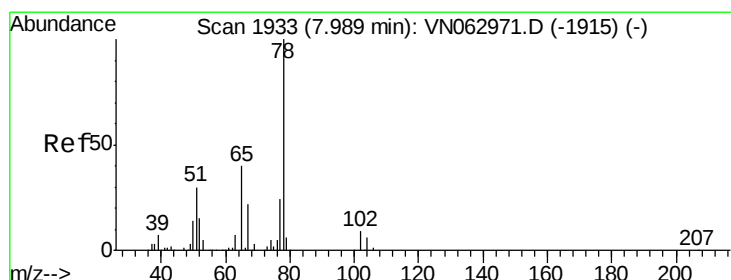
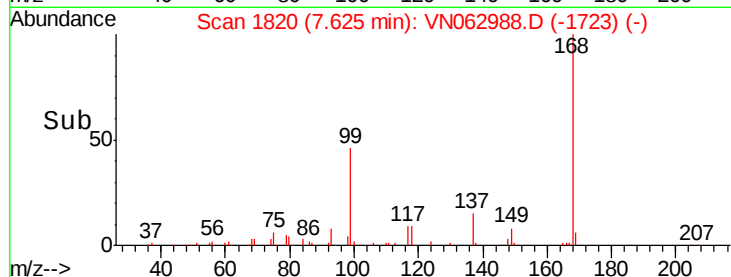
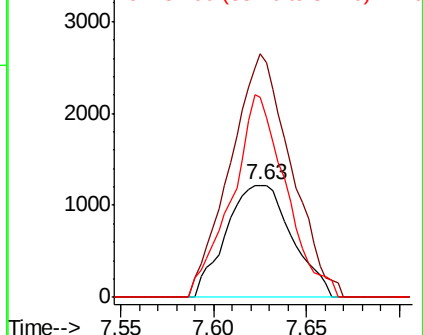
84 178.0 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.320 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062988.D

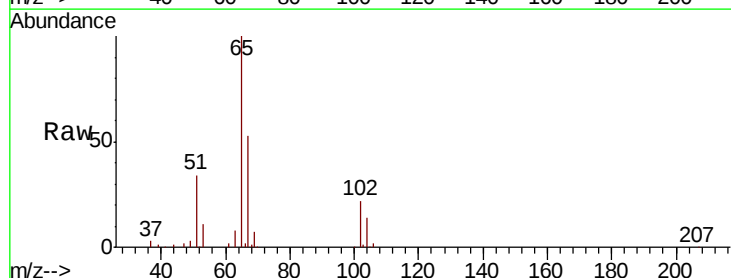
Acq: 17 Aug 2020 23:09

Tgt Ion: 65 Resp: 108192

Ion Ratio Lower Upper

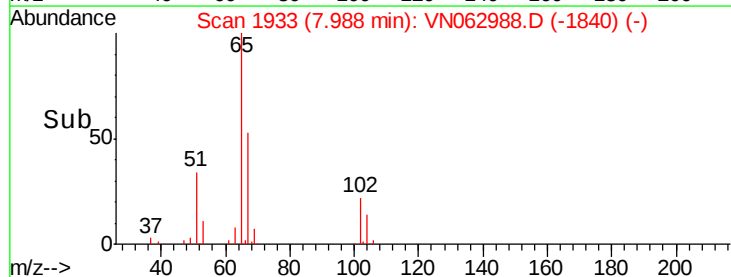
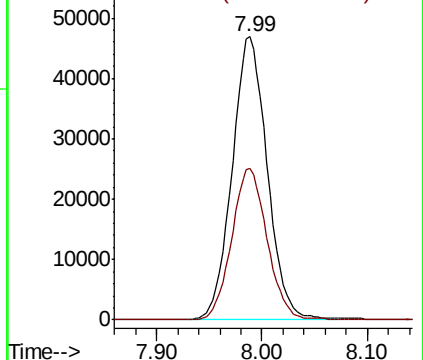
65 100

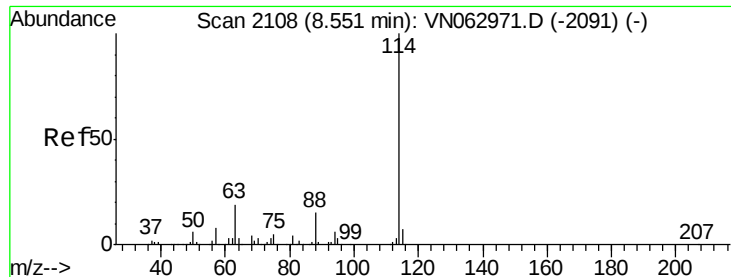
67 54.0 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

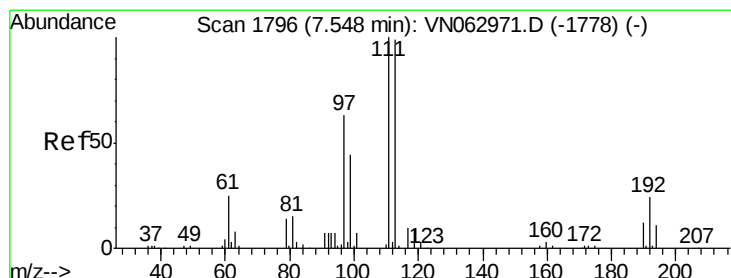
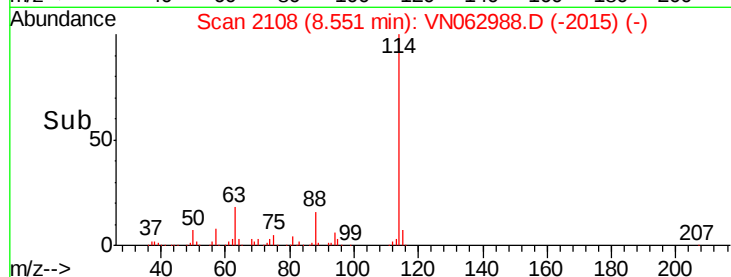
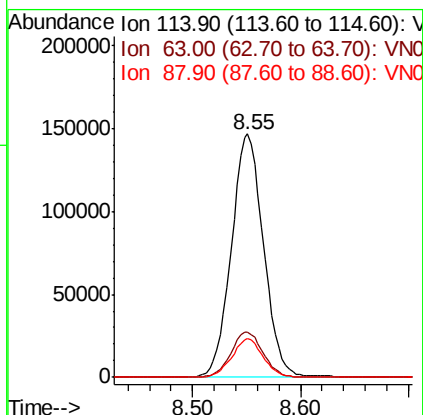
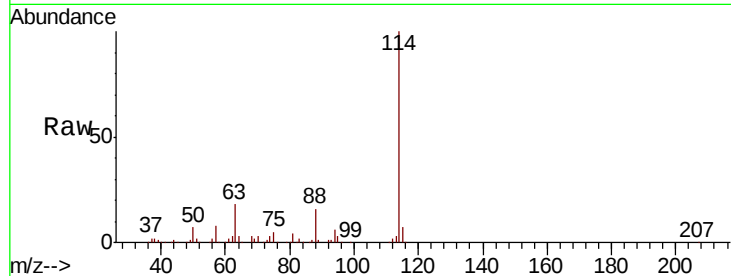




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

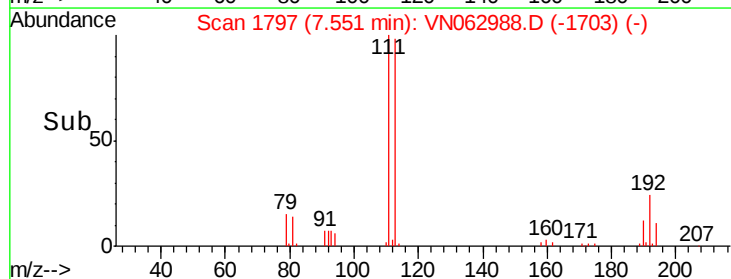
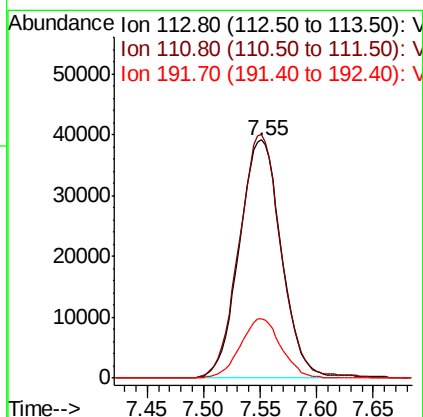
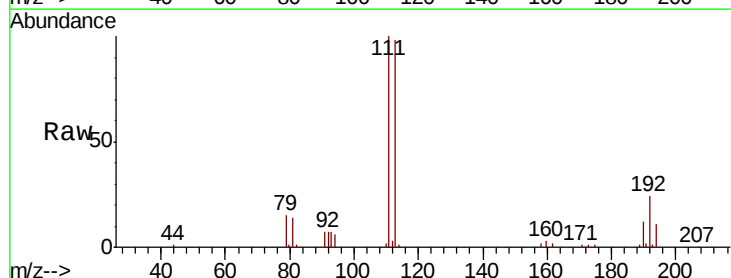
Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-2

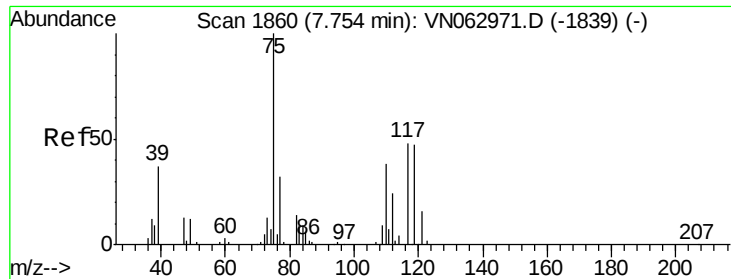
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	37.6
88	15.9	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 50.878 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	24.1	19.2	28.8

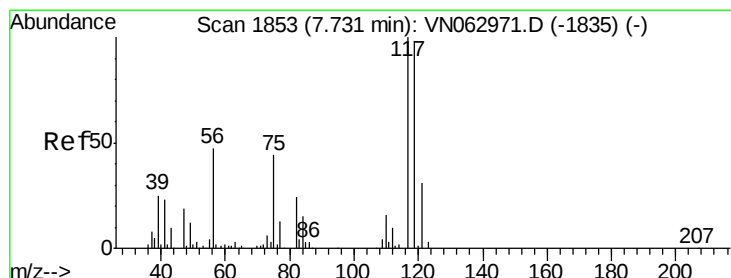
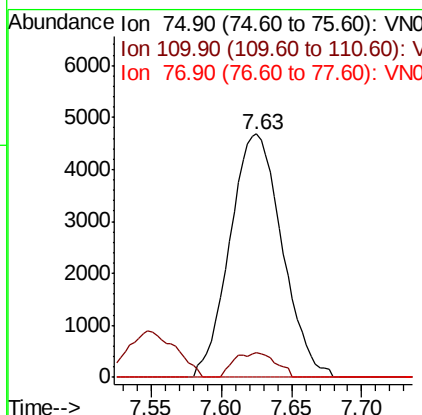
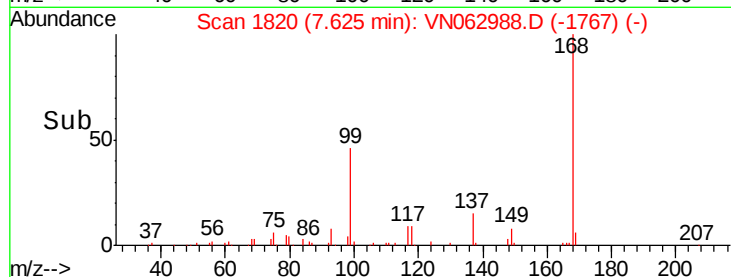
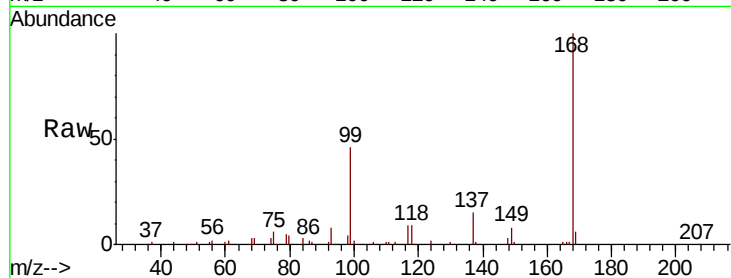




#36
 1,1-Dichloropropene
 Concen: 4.627 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

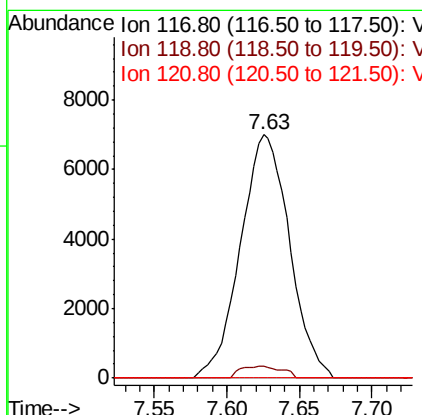
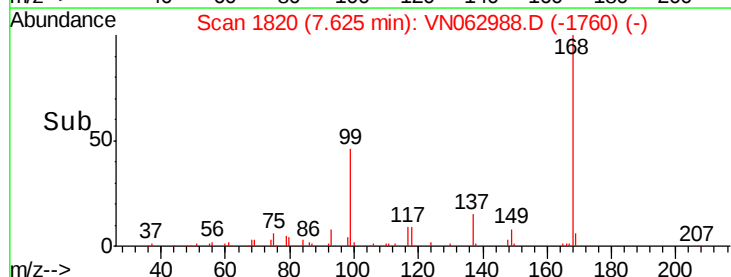
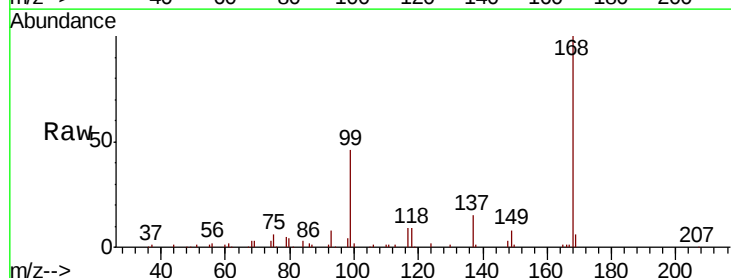
Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-2

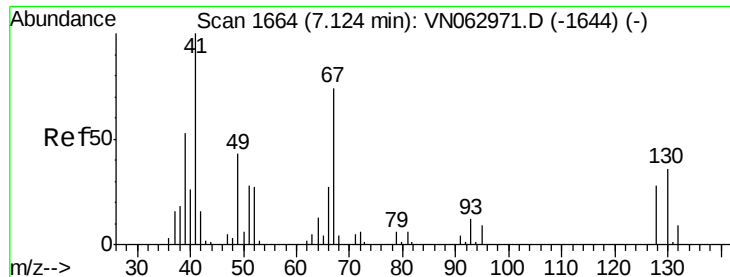
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.7	56.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 5.962 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.9	116.9#
121	0.0	24.8	37.2#

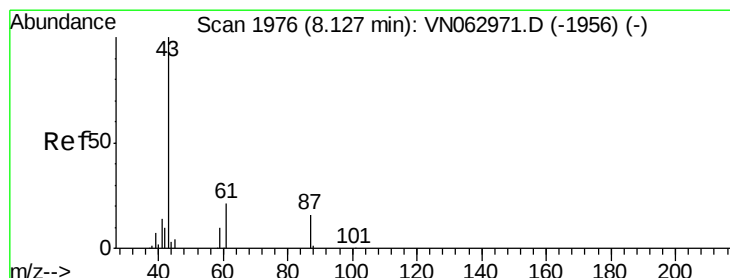
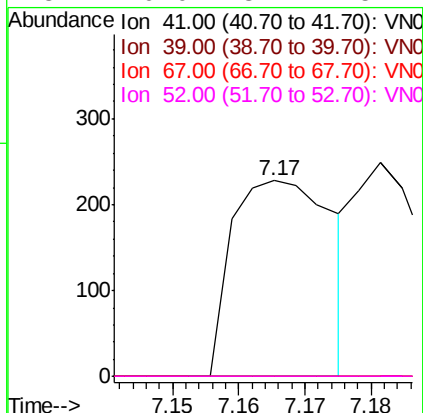
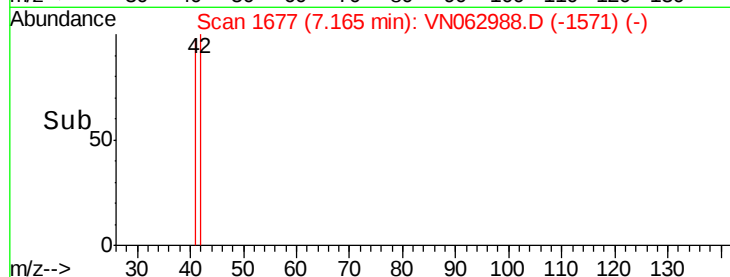
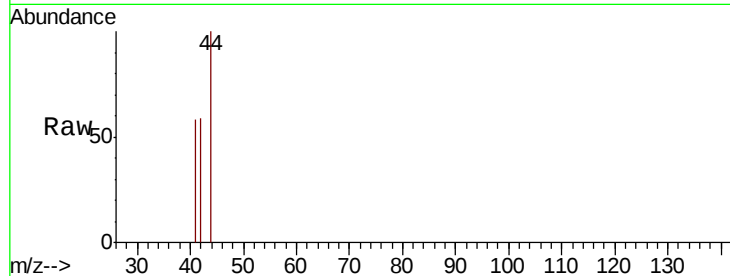




#41
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.04 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

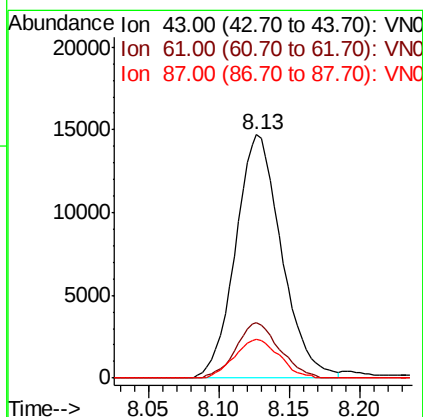
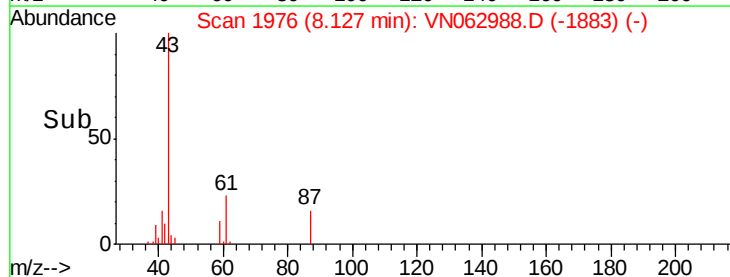
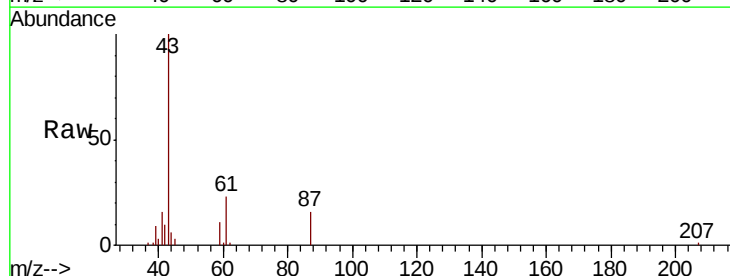
Instrument :
MSVOA_N
ClientSampled :
SP1-2

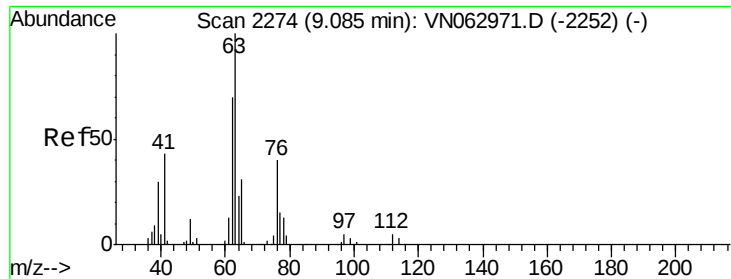
Tot Ion: 41 Resp: 240
Ion Ratio Lower Upper
41 100
39 0.0 58.6 88.0#
67 0.0 90.1 135.1#
52 0.0 34.7 52.1#



#43
Isopropyl Acetate
Concen: 8.822 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

Tgt Ion: 43 Resp: 33454
Ion Ratio Lower Upper
43 100
61 21.7 24.6 36.8#
87 15.5 12.4 18.6

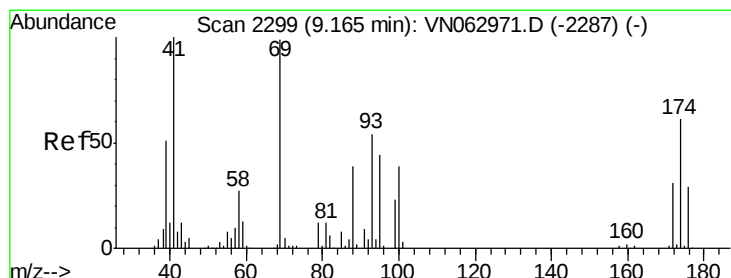
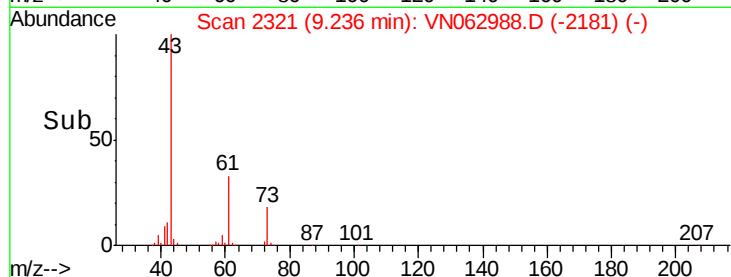
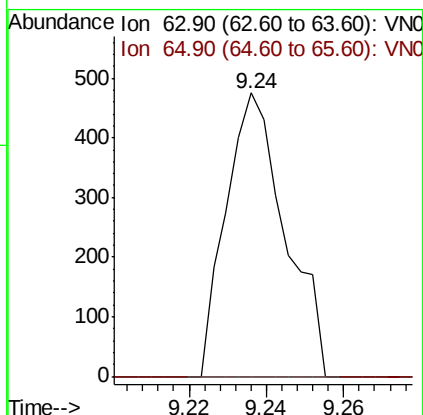
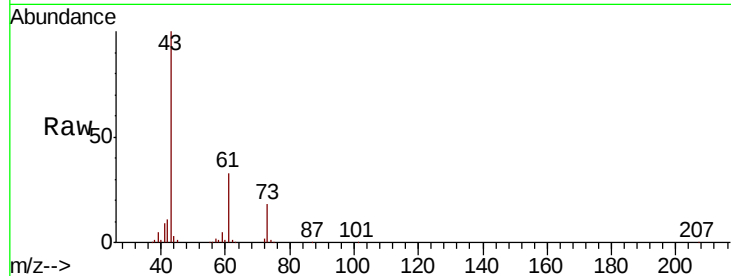




#45
 1,2-Dichloropropane
 Concen: 0.219 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

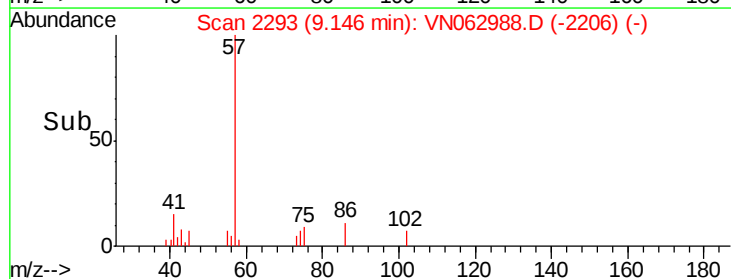
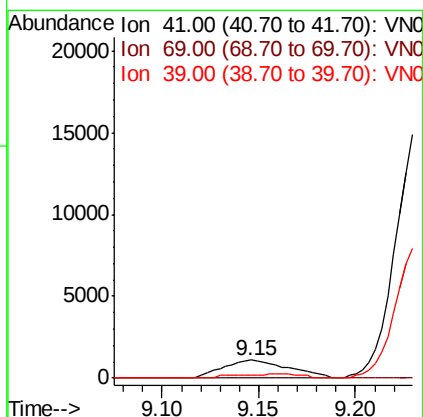
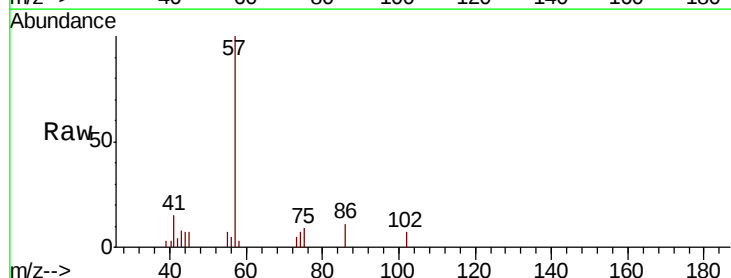
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-2

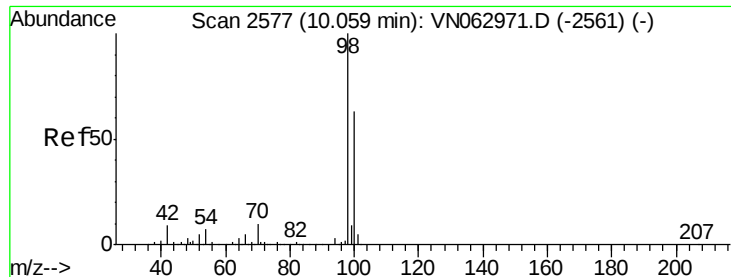
Tot Ion: 63 Resp: 504
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.402 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Tgt Ion: 41 Resp: 2600
 Ion Ratio Lower Upper
 41 100
 69 0.0 81.1 121.7#
 39 0.0 42.4 63.6#





#50

Toluene-d8

Concen: 51.579 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampleId :

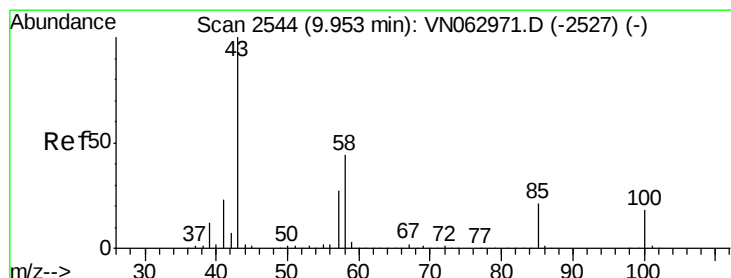
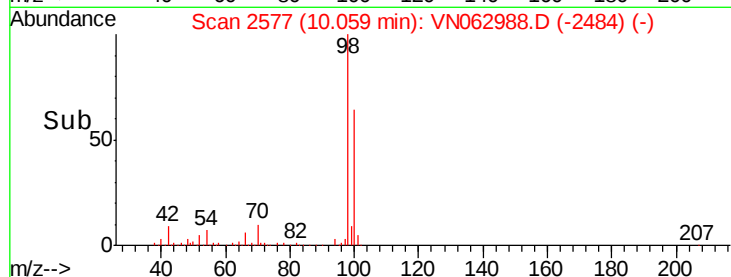
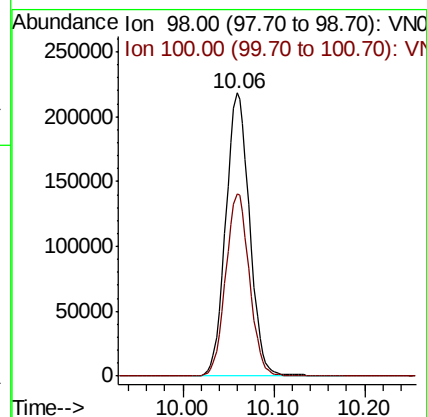
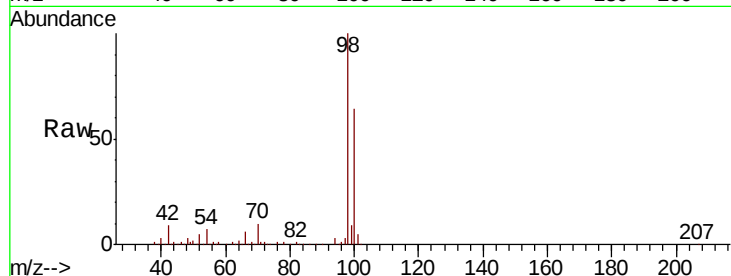
SP1-2

Tot Ion: 98 Resp: 397087

Ion Ratio Lower Upper

98 100

100 64.2 51.0 76.4



#51

4-Methyl-2-Pentanone

Concen: 1.878 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062988.D

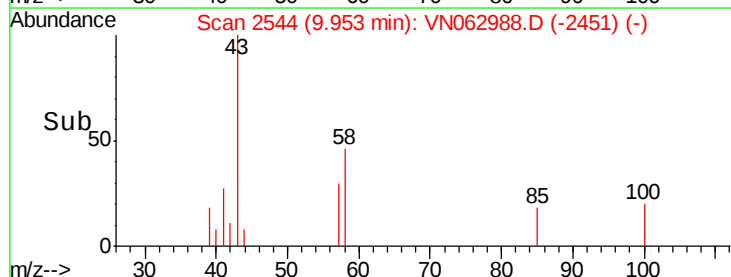
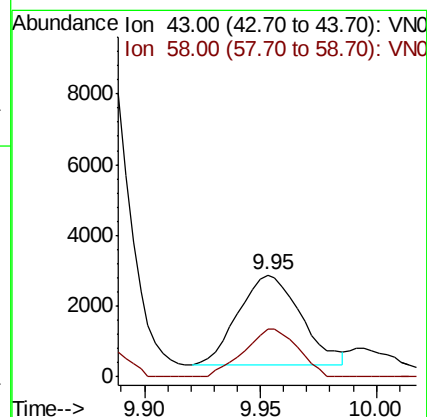
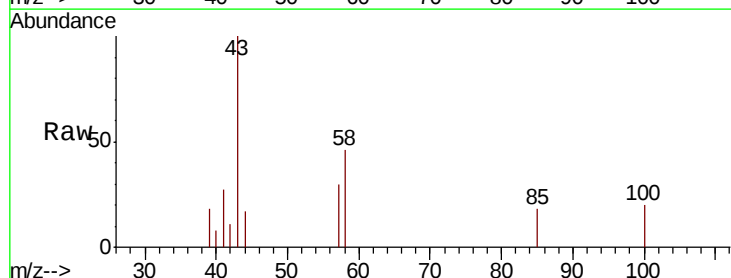
Acq: 17 Aug 2020 23:09

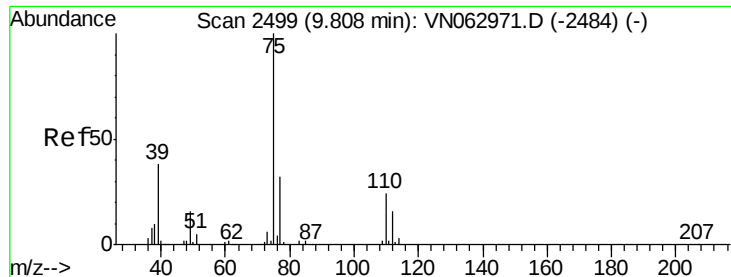
Tgt Ion: 43 Resp: 4764

Ion Ratio Lower Upper

43 100

58 46.4 34.3 51.5



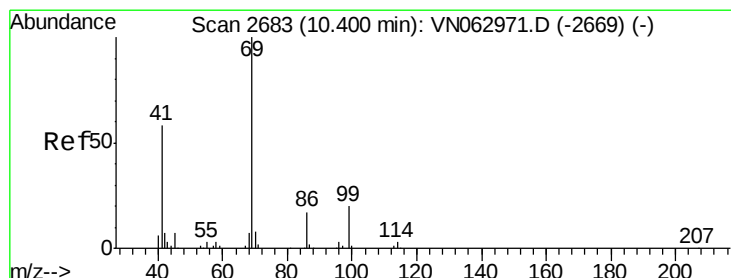
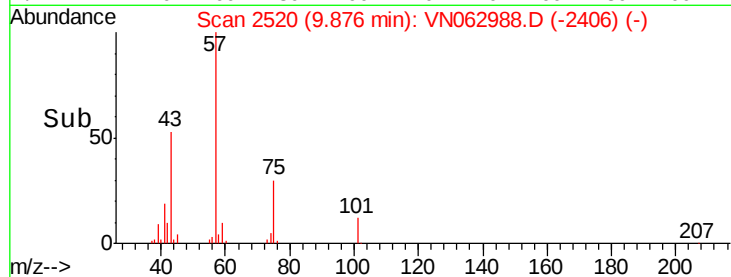
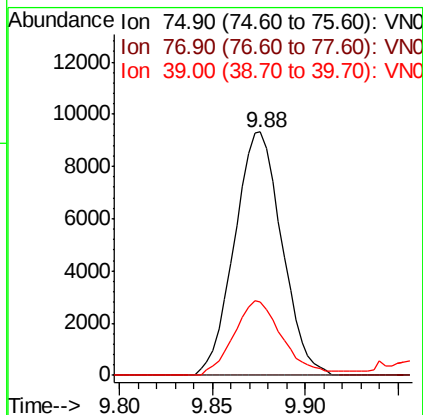
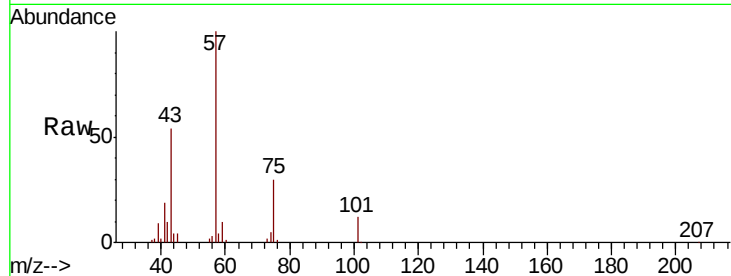


#54

cis-1,3-Dichloropropene
 Concen: 4.884 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Instrument :
 MSVOA_N
 ClientSampled :
 SP1-2

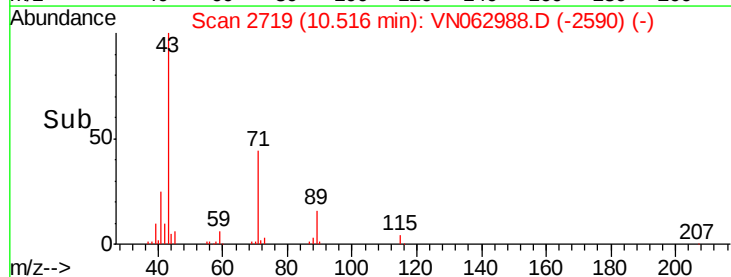
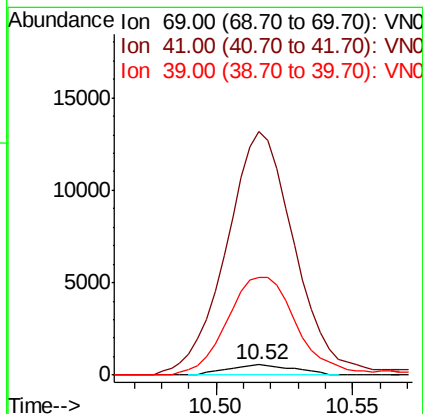
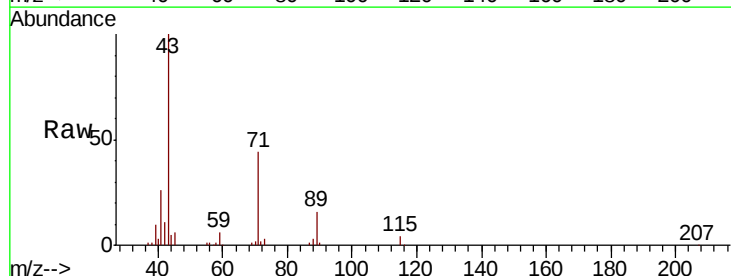
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.4	38.2#
39	30.2	30.6	46.0#

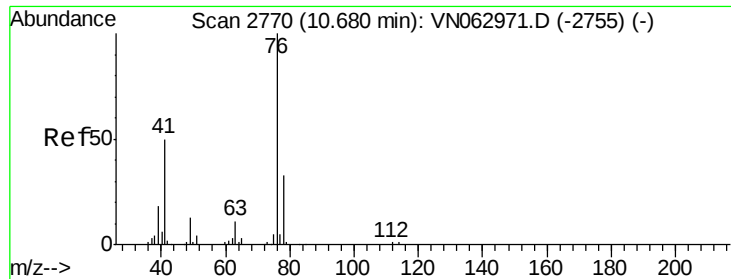


#56

Ethyl methacrylate
 Concen: 4.005 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	2472.6	46.0	69.0#
39	1008.5	23.4	35.0#

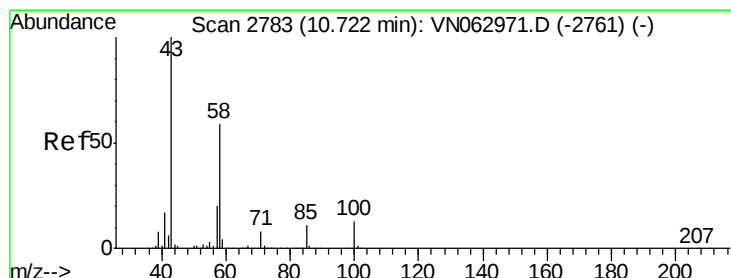
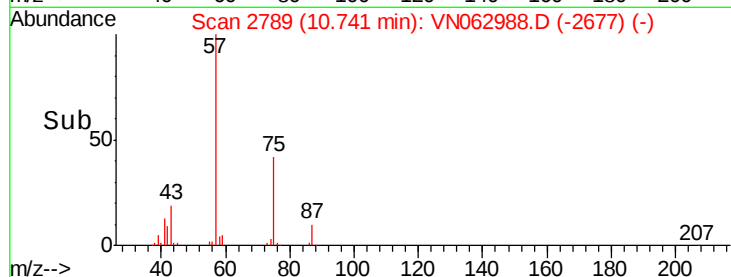
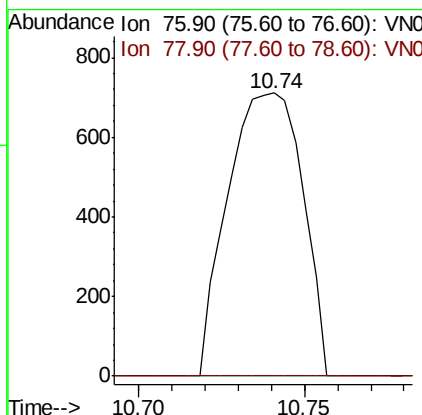
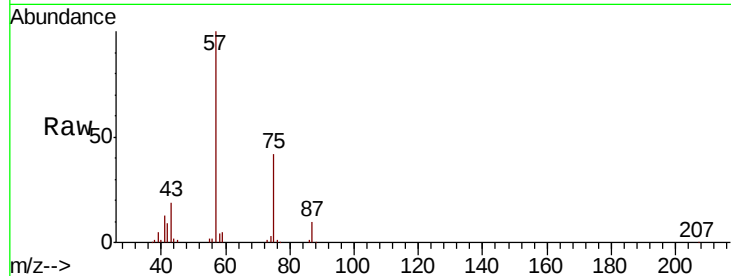




#57
 1,3-Dichloropropane
 Concen: 0.320 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.06 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

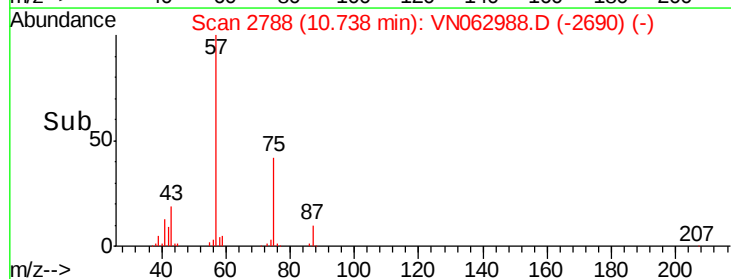
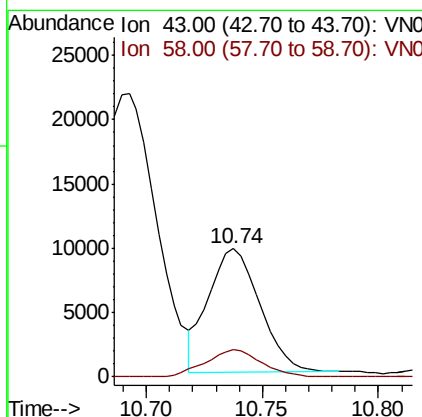
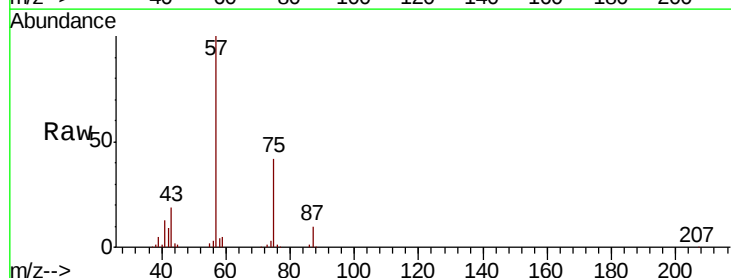
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-2

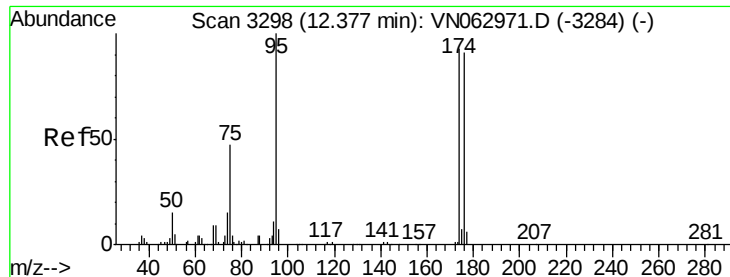
Tot Ion: 76 Resp: 1116
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: Below Cal
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062988.D
 Acq: 17 Aug 2020 23:09

Tgt Ion: 43 Resp: 14935
 Ion Ratio Lower Upper
 43 100
 58 23.3 29.5 88.5#

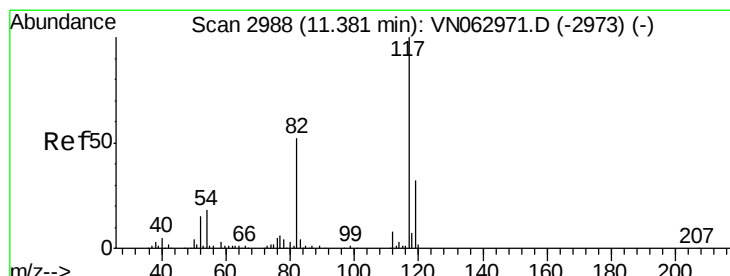
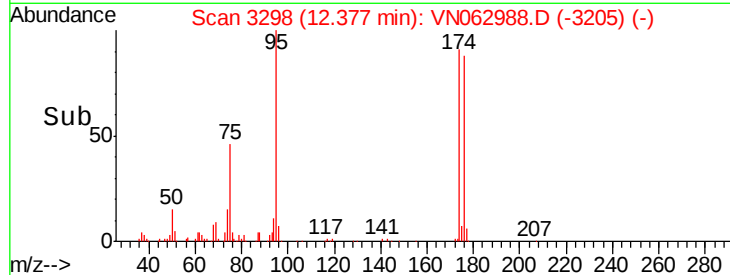
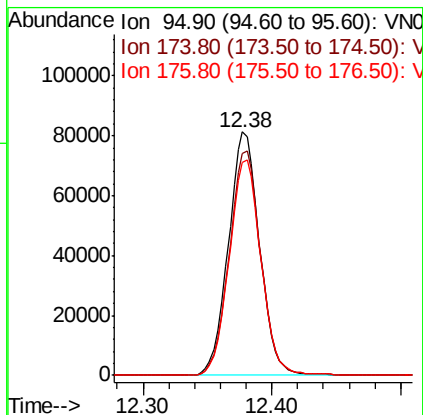
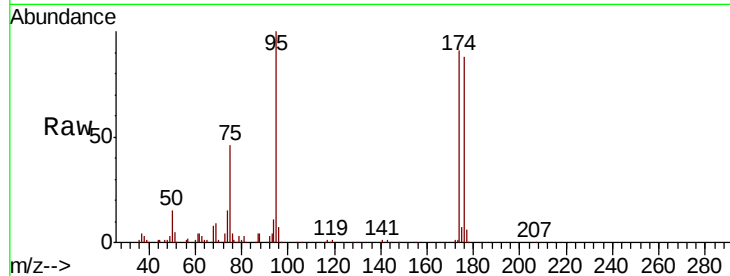




#62
4-Bromofluorobenzene
Concen: 49.202 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

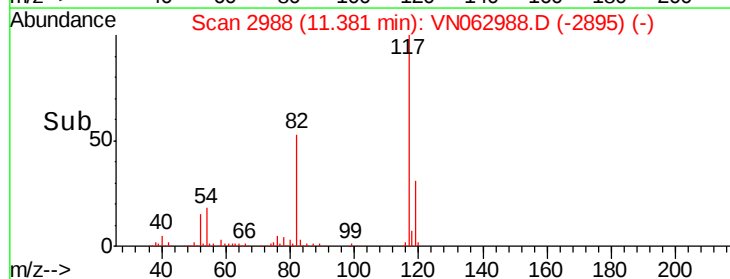
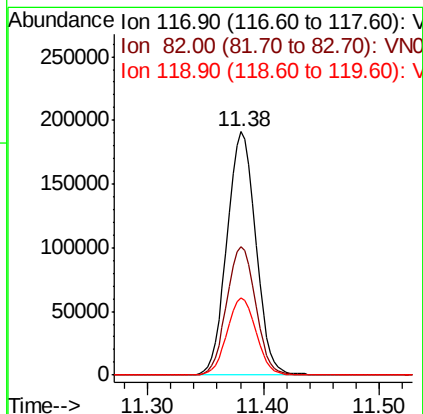
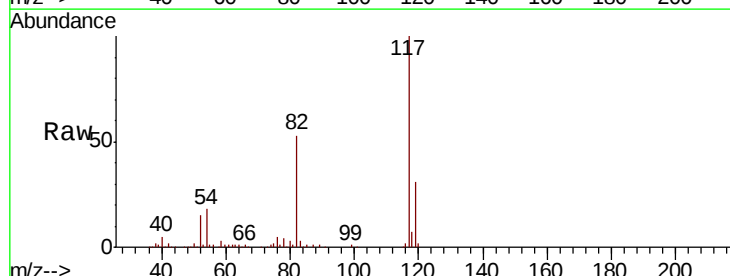
Instrument :
MSVOA_N
ClientSampled :
SP1-2

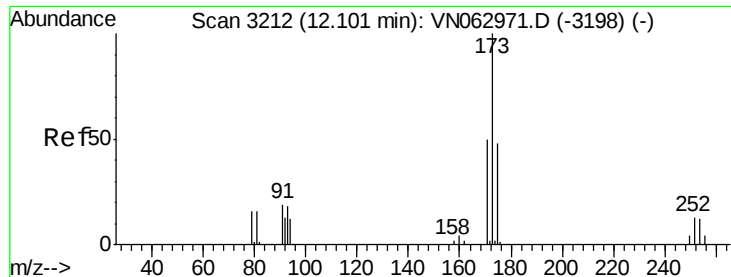
Tot Ion: 95 Resp: 136109
Ion Ratio Lower Upper
95 100
174 93.7 0.0 185.2
176 90.3 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062988.D
Acq: 17 Aug 2020 23:09

Tgt Ion: 117 Resp: 328681
Ion Ratio Lower Upper
117 100
82 52.9 41.3 61.9
119 31.5 25.8 38.8





#71

Bromoform

Concen: 0.413 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

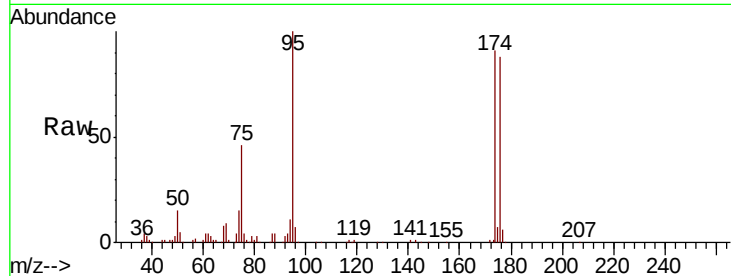
Tot Ion:173 Resp: 903

Ion Ratio Lower Upper

173 100

175 835.2 24.1 72.2#

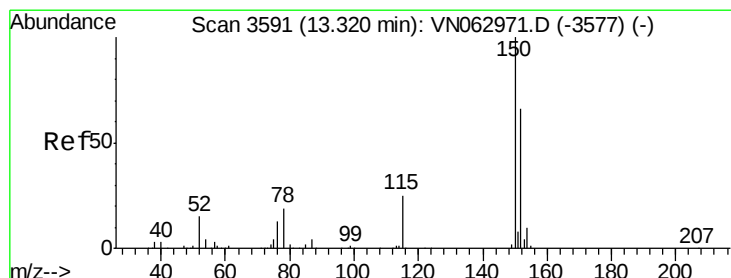
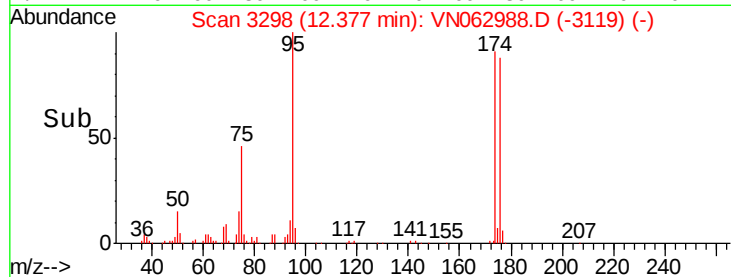
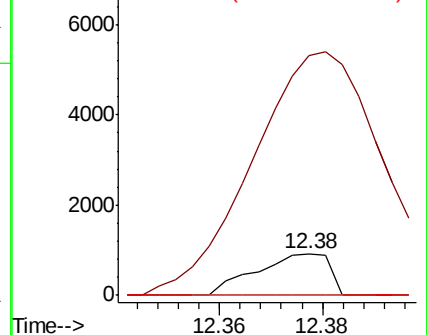
254 0.0 0.0 0.0



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: VN062988.D

Acq: 17 Aug 2020 23:09

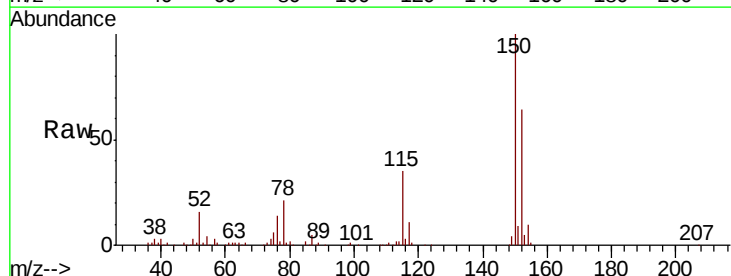
Tgt Ion:152 Resp: 123713

Ion Ratio Lower Upper

152 100

115 54.6 27.1 81.3

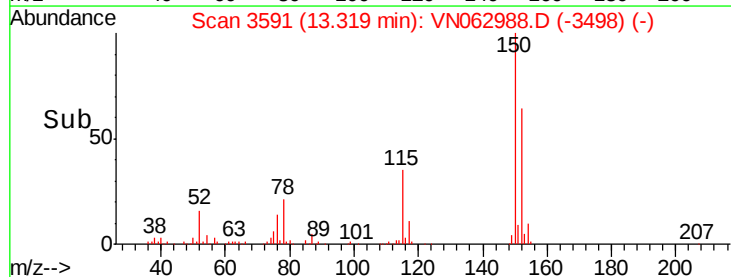
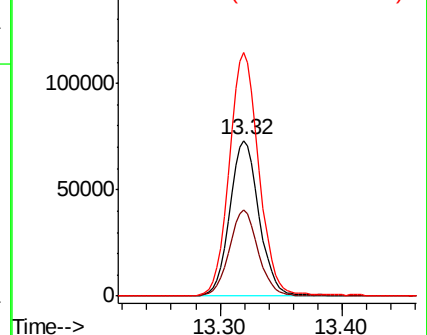
150 157.4 0.0 341.4

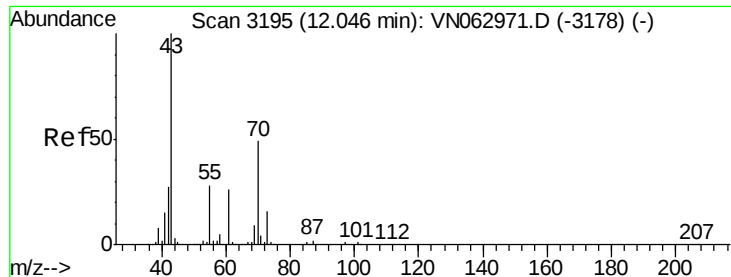


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.480 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

Tot Ion: 43 Resp: 1406

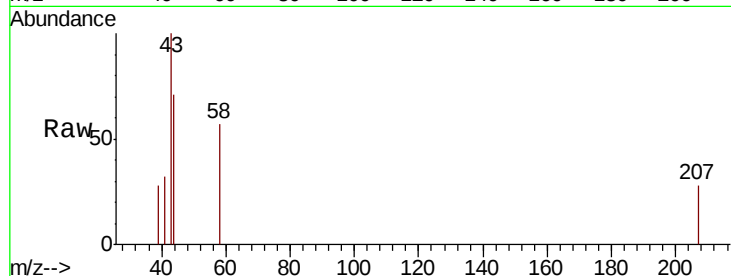
Ion Ratio Lower Upper

43 100

70 0.0 38.4 57.6#

55 0.0 21.9 32.9#

61 0.0 20.6 31.0#

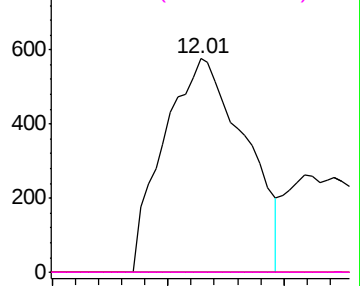


Abundance Ion 43.00 (42.70 to 43.70): VN0

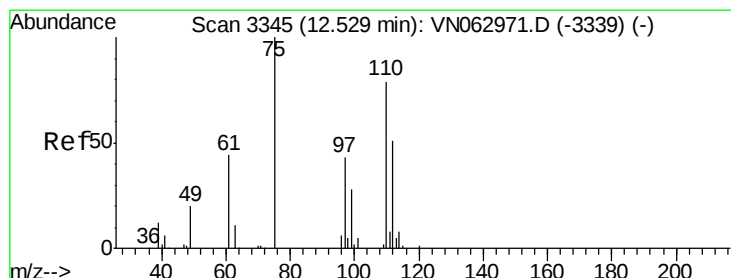
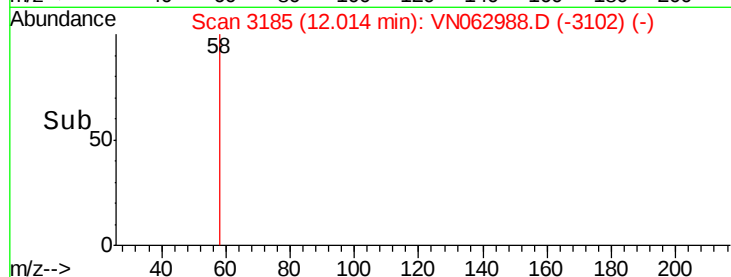
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time--> 11.95 12.00 12.05



#76

1,2,3-Trichloropropane

Concen: 25.731 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062988.D

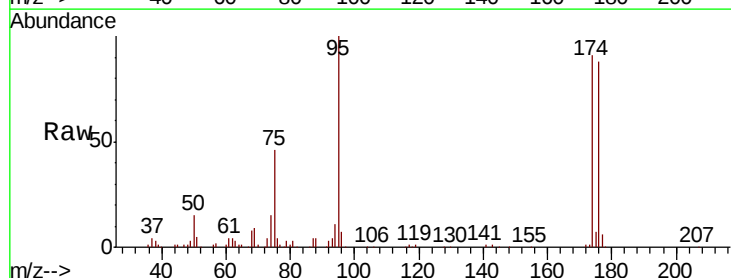
Acq: 17 Aug 2020 23:09

Tgt Ion: 75 Resp: 62976

Ion Ratio Lower Upper

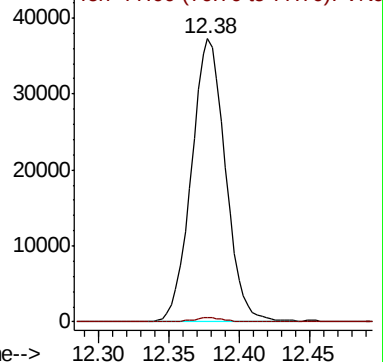
75 100

77 1.2 0.0 0.0#

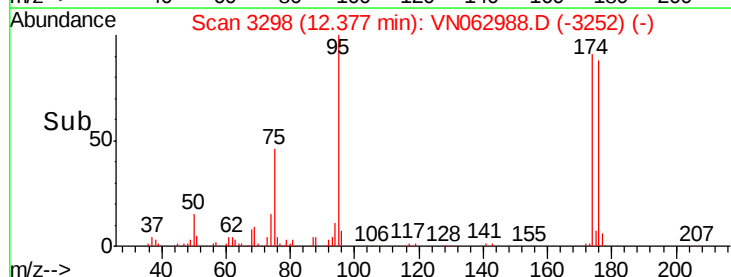


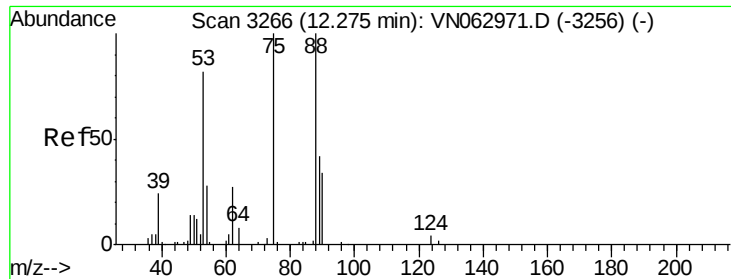
Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 69.021 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062988.D

Acq: 17 Aug 2020 23:09

Instrument :

MSVOA_N

ClientSampleId :

SP1-2

Tot Ion: 75 Resp: 62976

Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.2#

89 0.0 35.0 52.4#

