

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062989.D
 Acq On : 17 Aug 2020 23:33
 Operator : JC/MD
 Sample : L3659-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-3

Quant Time: Aug 18 05:55:27 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	190578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	306265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	327125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	123116	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	106230	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
35) Dibromofluoromethane	7.55	113	97388	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	10.06	98	396617	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.38	95	134386	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	

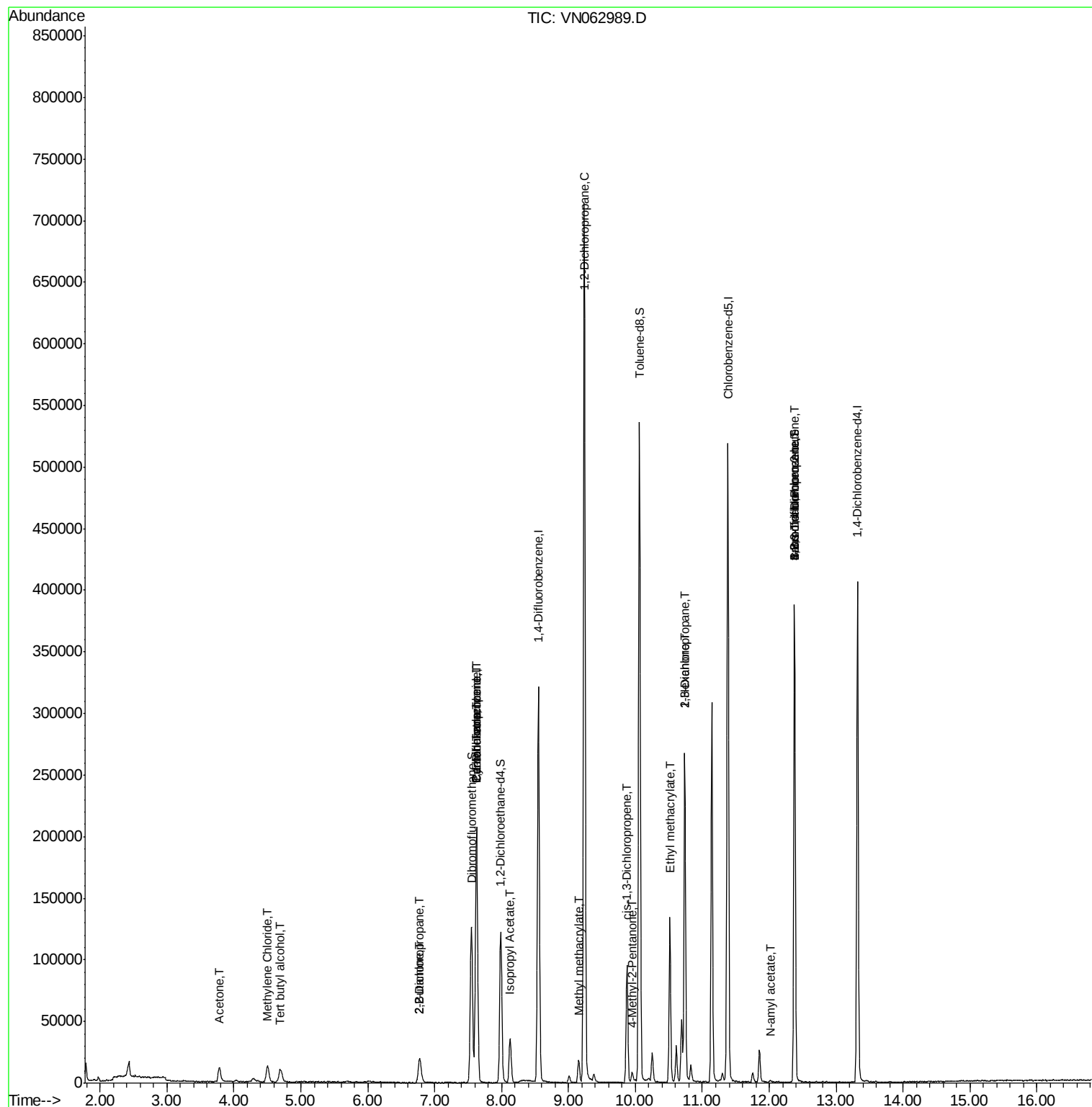
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	10013	29.024	ug/l #	74
16) Acetone	3.78	43	20667	26.439	ug/l	97
18) Methyl Acetate	4.29	43	5545	Below Cal	#	80
20) Methylene Chloride	4.50	84	9932	5.805	ug/l	94
25) 2-Butanone	6.78	43	1265	1.123	ug/l #	45
26) 2,2-Dichloropropane	6.77	77	1623	0.615	ug/l #	51
29) Tetrahydrofuran	7.18	42	589	Below Cal	#	29
31) Cyclohexane	7.62	56	2585	0.830	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11657	4.437	ug/l #	48
38) Carbon Tetrachloride	7.63	117	15569	5.609	ug/l #	16
43) Isopropyl Acetate	8.13	43	41903	10.989	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	958	0.414	ug/l #	44
48) Methyl methacrylate	9.15	41	3141	1.684	ug/l #	8
51) 4-Methyl-2-Pentanone	9.95	43	6400	2.509	ug/l #	82
54) cis-1,3-Dichloropropene	9.88	75	18784	5.517	ug/l #	65
56) Ethyl methacrylate	10.52	69	820	3.975	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3090	0.881	ug/l #	42
59) 2-Hexanone	10.74	43	33920	6.080	ug/l #	53
71) Bromoform	12.38	173	868	0.399	ug/l #	1
74) N-amyl acetate	12.01	43	1517	0.520	ug/l #	39
76) 1,2,3-Trichloropropane	12.38	75	61261	25.139	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	61261	67.467	ug/l #	16
95) Naphthalene	15.11	128	68	Below Cal	#	69

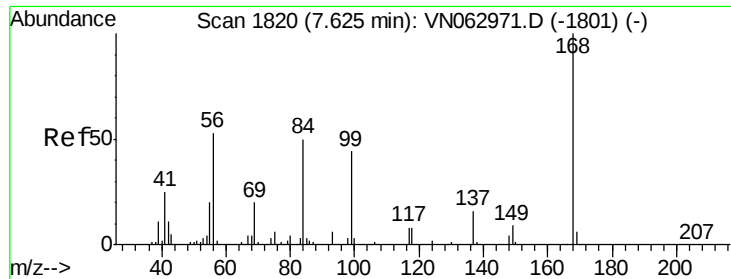
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SP1-3

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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: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

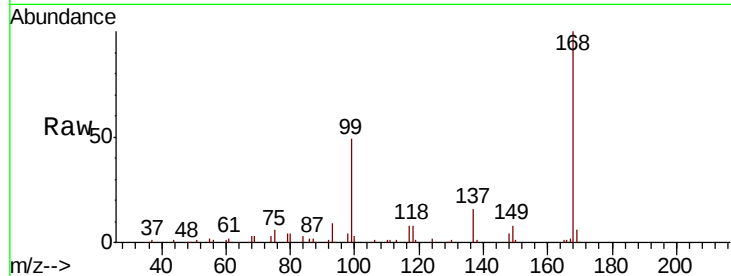
SP1-3

Tot Ion:168 Resp: 190578

Ion Ratio Lower Upper

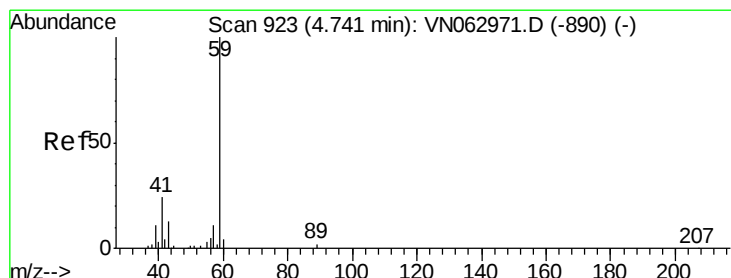
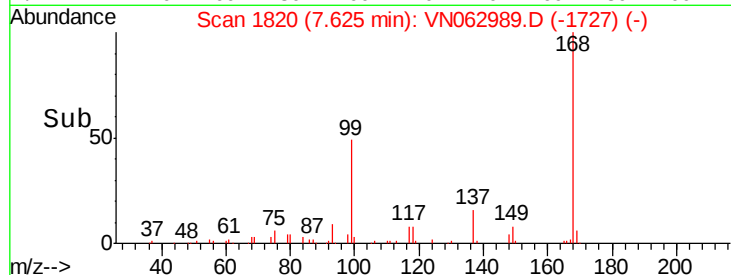
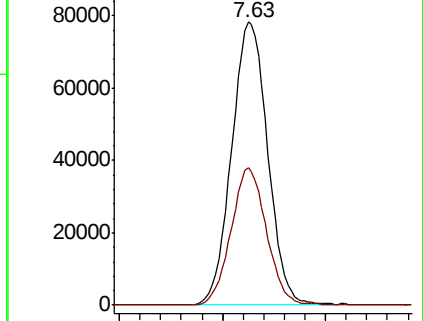
168 100

99 48.6 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 29.024 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.04 min

Lab File: VN062989.D

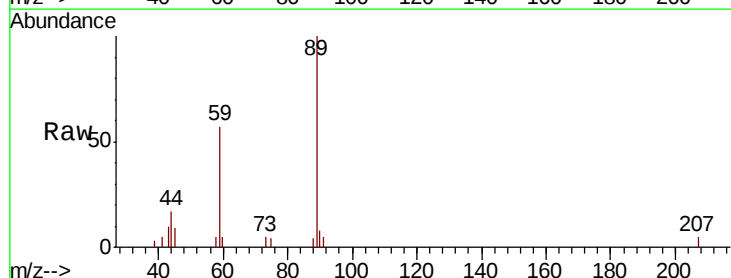
Acq: 17 Aug 2020 23:33

Tgt Ion: 59 Resp: 10013

Ion Ratio Lower Upper

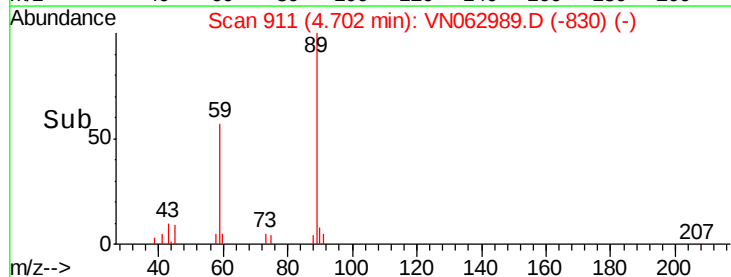
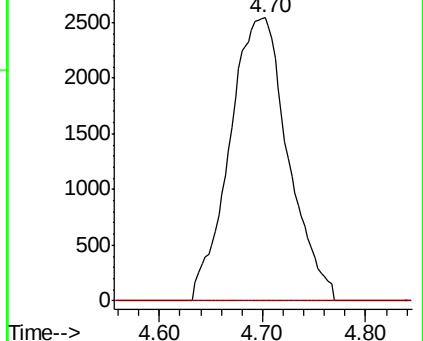
59 100

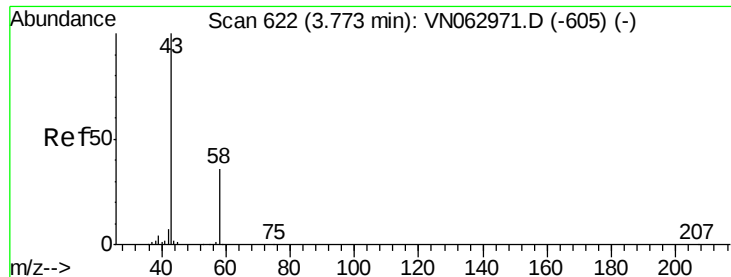
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 26.439 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

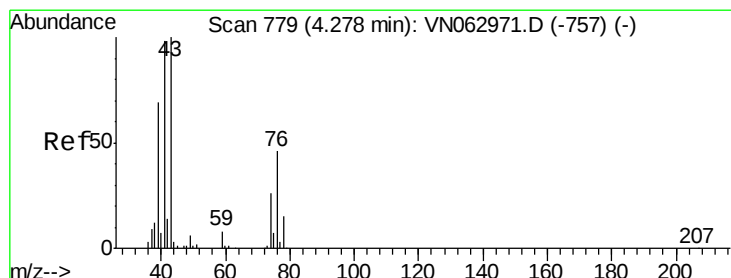
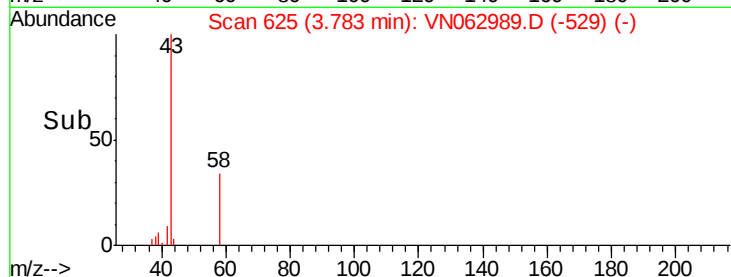
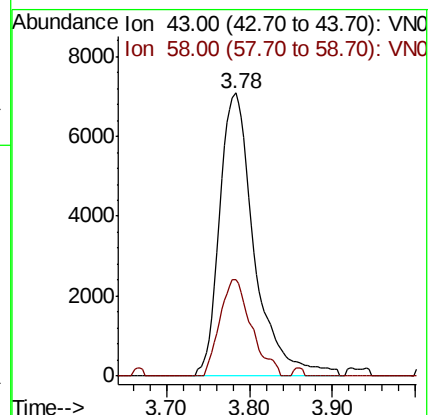
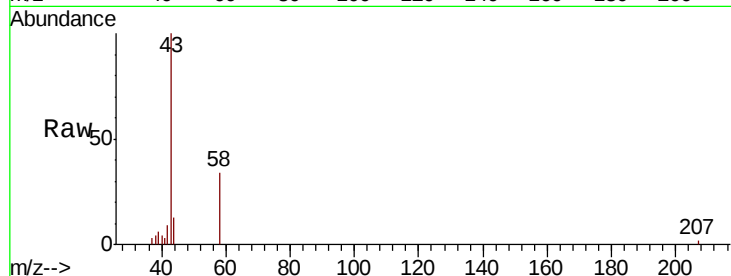
SP1-3

Tot Ion: 43 Resp: 20667

Ion Ratio Lower Upper

43 100

58 34.2 28.7 43.1



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062989.D

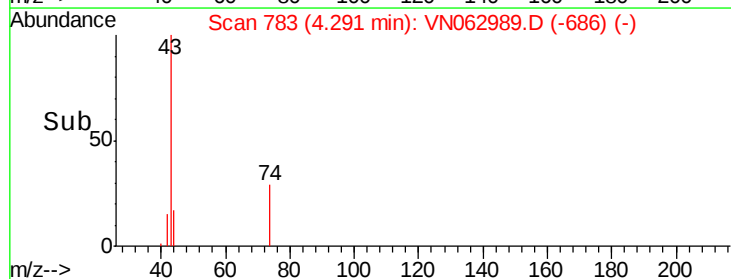
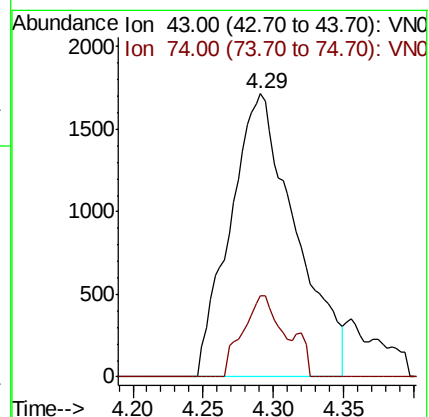
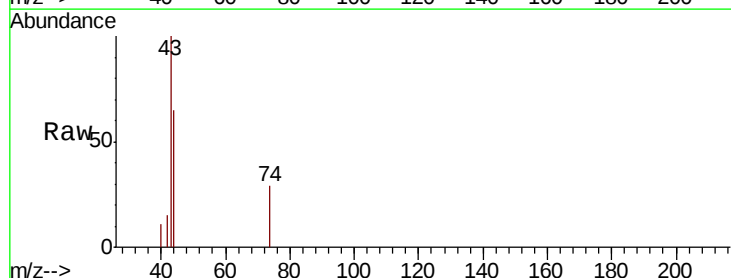
Acq: 17 Aug 2020 23:33

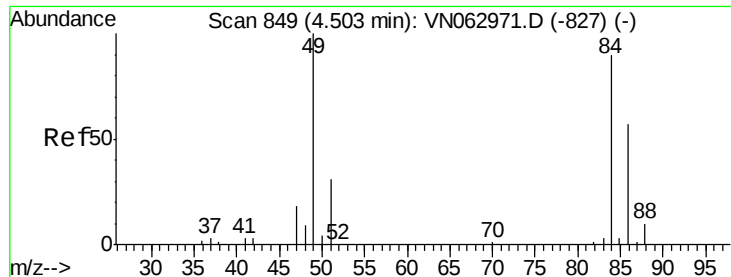
Tgt Ion: 43 Resp: 5545

Ion Ratio Lower Upper

43 100

74 16.8 21.6 32.4#

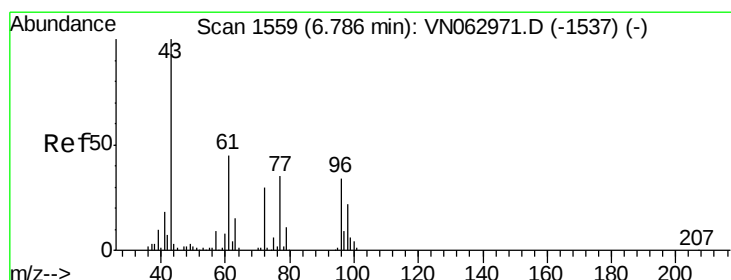
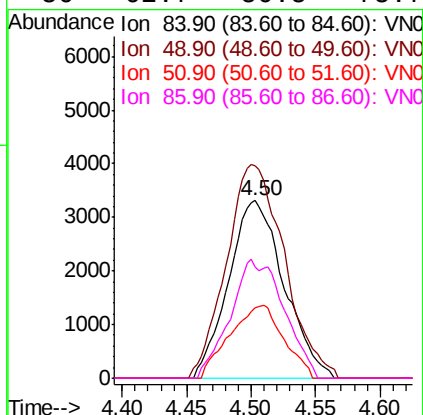
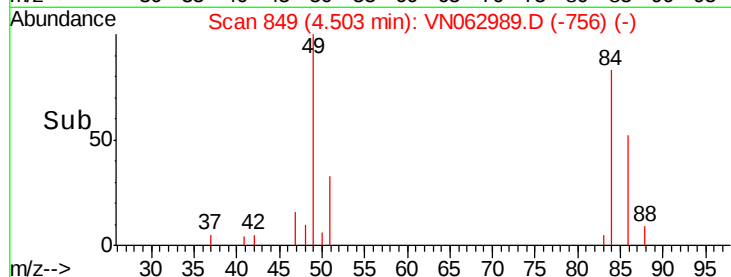
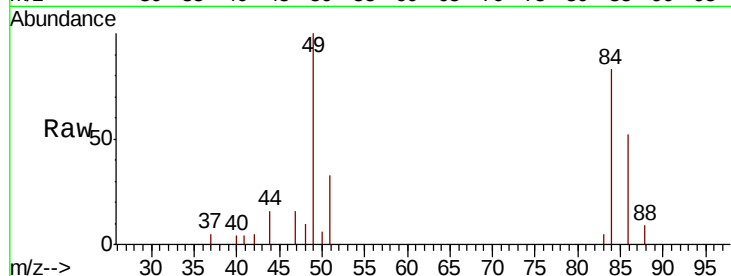




#20
Methylene Chloride
Concen: 5.805 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

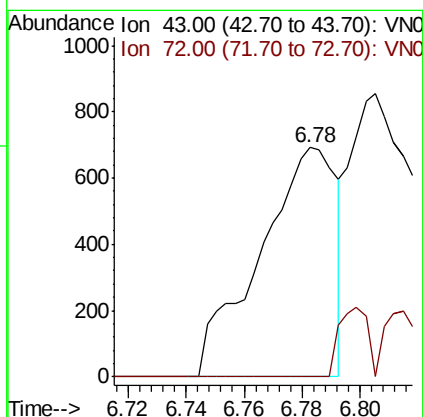
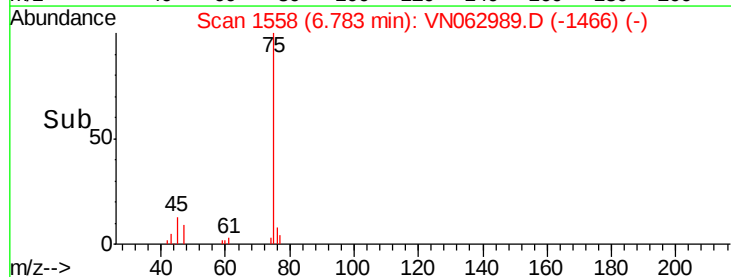
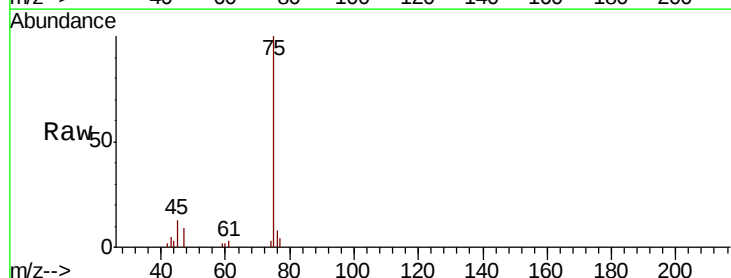
Instrument :
MSVOA_N
ClientSampled :
SP1-3

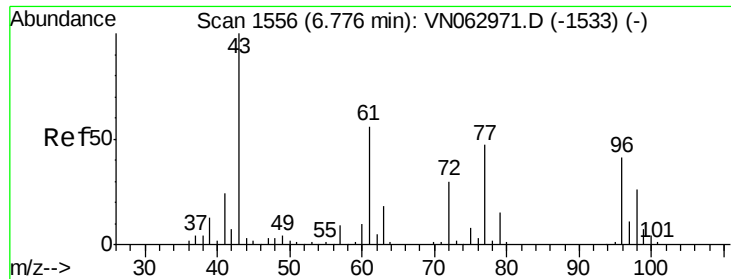
Tot Ion:	84	Resp:	9932
Ion	Ratio	Lower	Upper
84	100		
49	119.8	88.8	133.2
51	39.4	27.1	40.7
86	62.7	50.5	75.7



#25
2-Butanone
Concen: 1.123 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

Tgt Ion:	43	Resp:	1265
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.9	35.9#





#26

2,2-Dichloropropane

Concen: 0.615 ug/l

RT: 6.77 min Scan# 1555

Delta R.T. -0.00 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

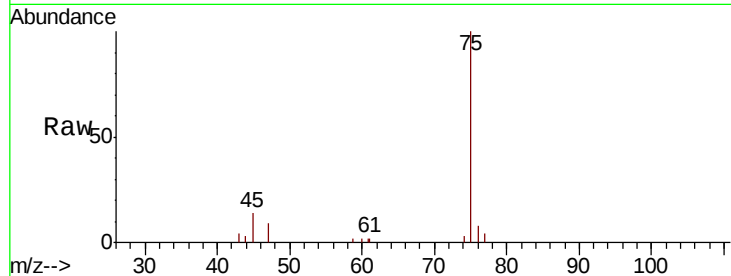
SP1-3

Tot Ion: 77 Resp: 1623

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.77

600

500

400

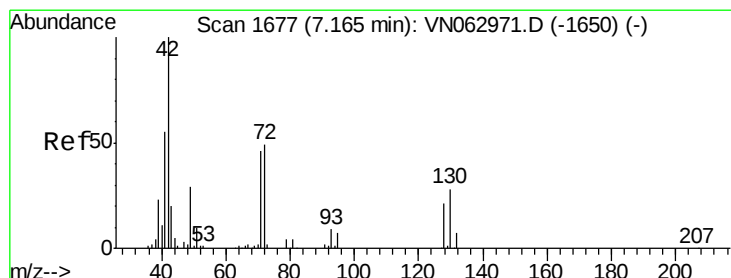
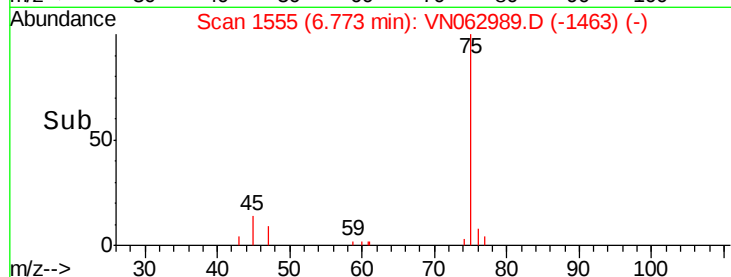
300

200

100

0

Time--> 6.70 6.75 6.80



#29

Tetrahydrofuran

Concen: Below Cal

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

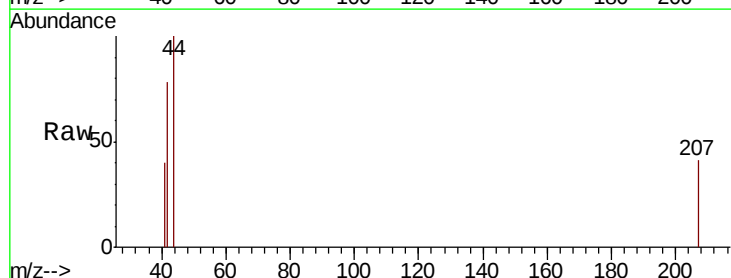
Tgt Ion: 42 Resp: 589

Ion Ratio Lower Upper

42 100

72 0.0 39.4 59.2#

71 0.0 37.2 55.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

400

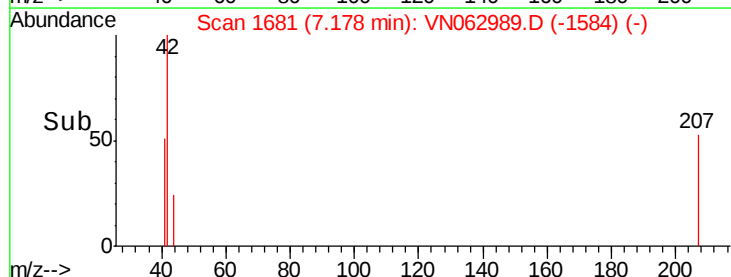
300

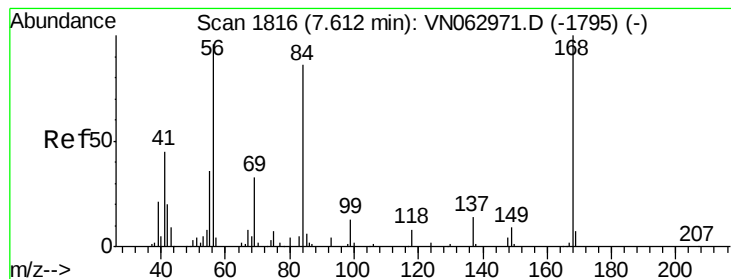
200

100

0

Time--> 7.14 7.16 7.18 7.20





#31

Cyclohexane

Concen: 0.830 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

SP1-3

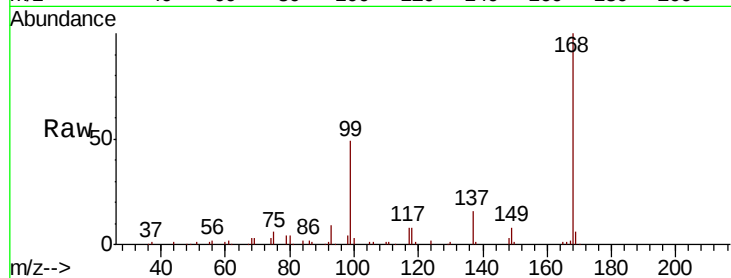
Tot Ion: 56 Resp: 2585

Ion Ratio Lower Upper

56 100

69 193.1 27.4 41.2#

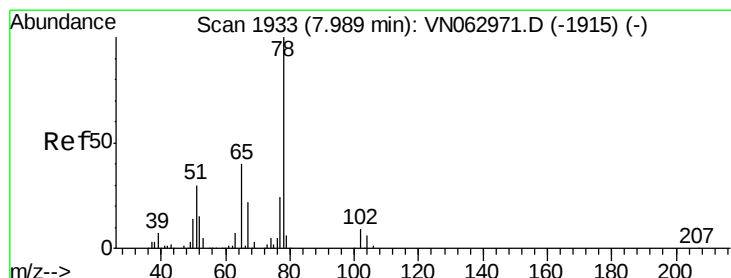
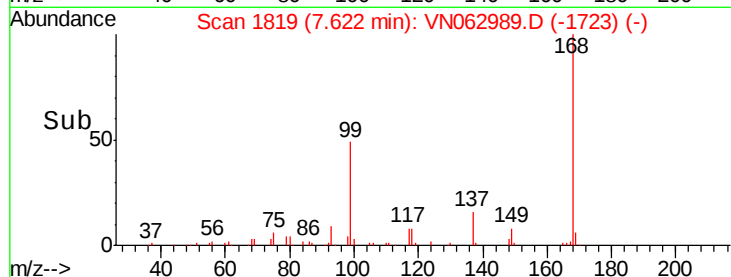
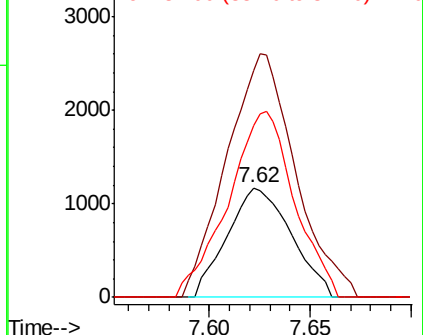
84 157.2 71.3 106.9#



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: 52.619 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062989.D

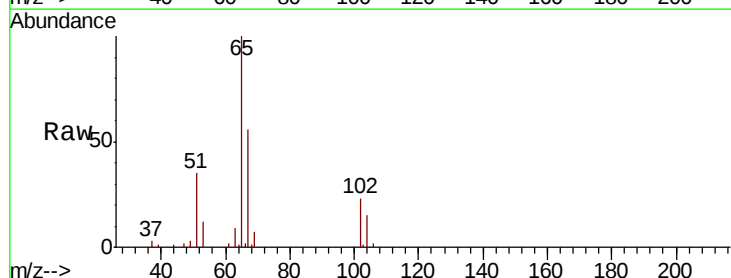
Acq: 17 Aug 2020 23:33

Tgt Ion: 65 Resp: 106230

Ion Ratio Lower Upper

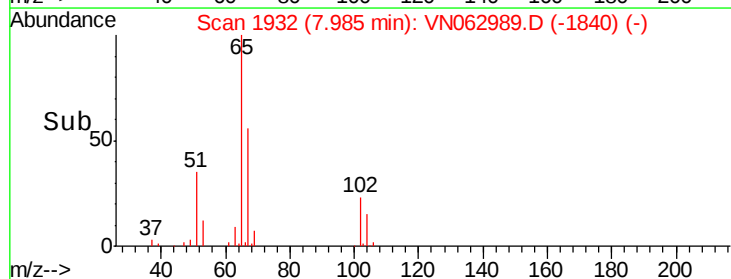
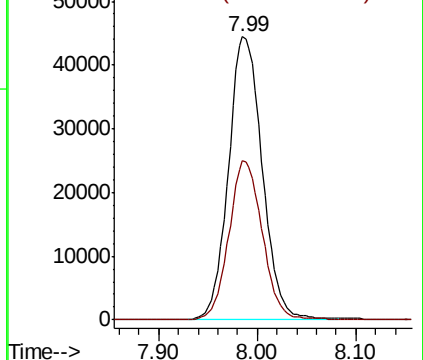
65 100

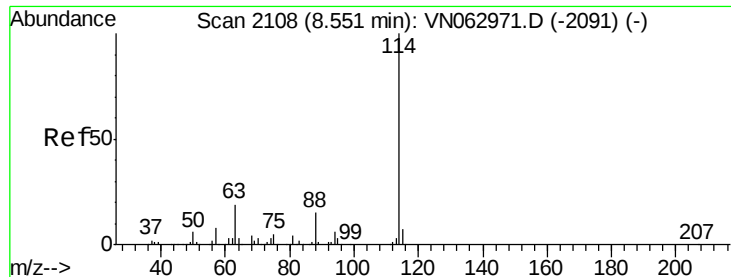
67 55.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

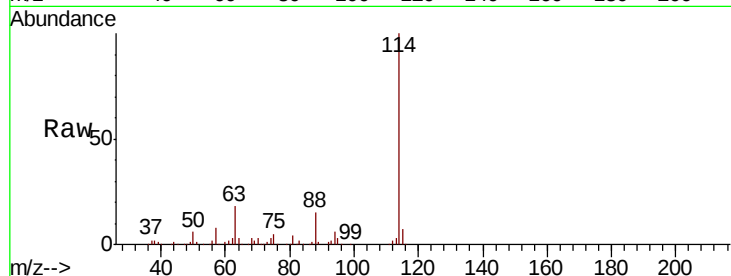




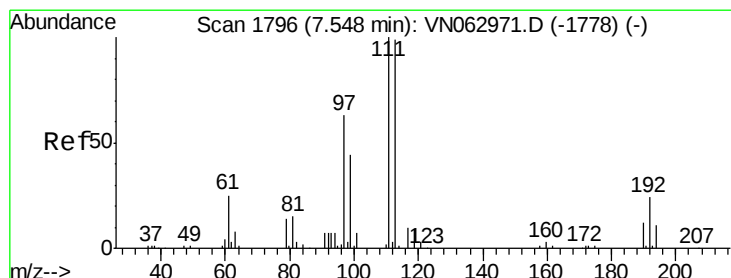
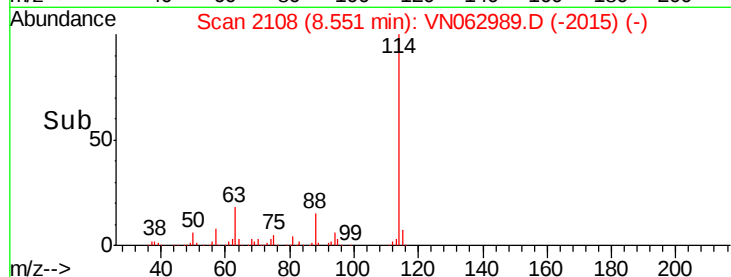
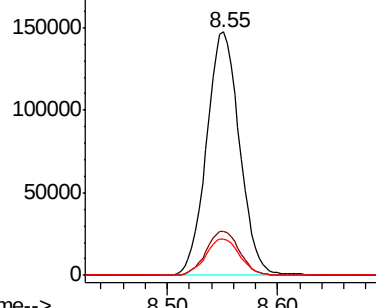
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062989.D
 Acq: 17 Aug 2020 23:33

Instrument :
 MSVOA_N
 ClientSampleId :
 SP1-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	37.6
88	15.1	0.0	31.0

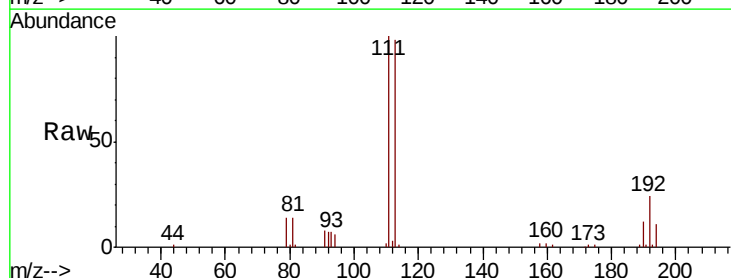


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

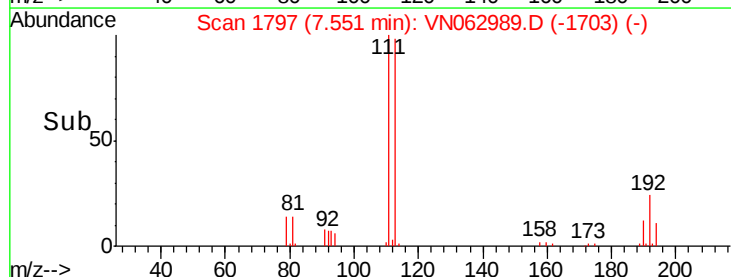
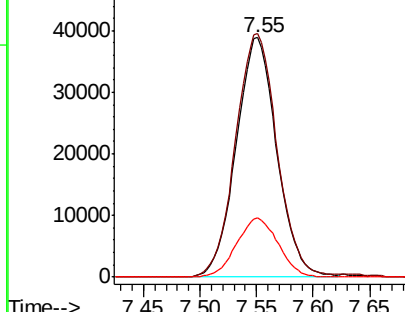


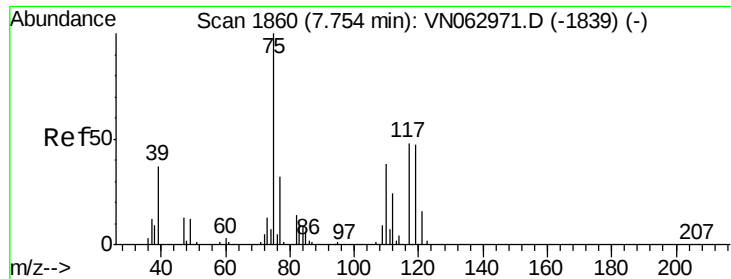
#35
 Dibromofluoromethane
 Concen: 48.820 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062989.D
 Acq: 17 Aug 2020 23:33

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.4	122.0
192	25.1	19.2	28.8



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: 4.437 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampleId :

SP1-3

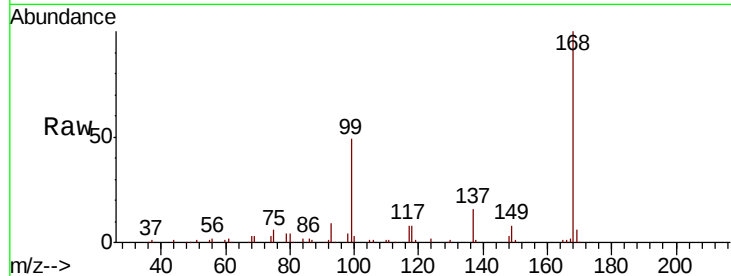
Tot Ion: 75 Resp: 11657

Ion Ratio Lower Upper

75 100

110 8.8 18.7 56.1#

77 0.0 25.6 38.4#



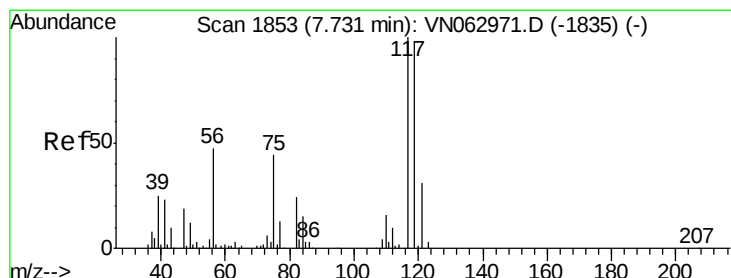
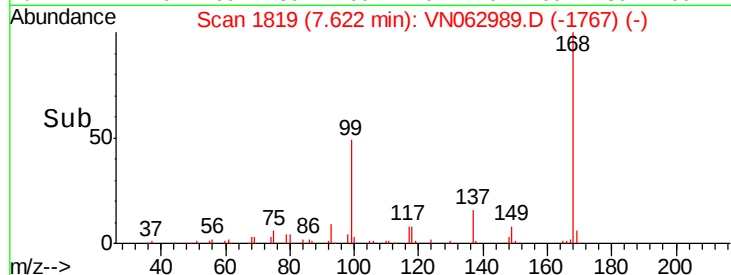
Abundance Ion 74.90 (74.60 to 75.60): VN062971.D (-1839) (-)

Ion 109.90 (109.60 to 110.60): VN062971.D (-1839) (-)

Ion 76.90 (76.60 to 77.60): VN062971.D (-1839) (-)

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 5.609 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

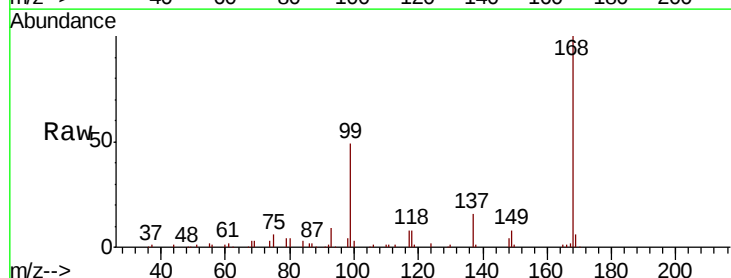
Tgt Ion: 117 Resp: 15569

Ion Ratio Lower Upper

117 100

119 6.1 77.9 116.9#

121 0.0 24.8 37.2#



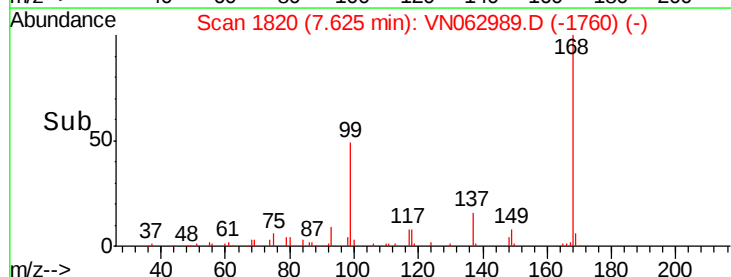
Abundance Ion 116.80 (116.50 to 117.50): VN062989.D (-1760) (-)

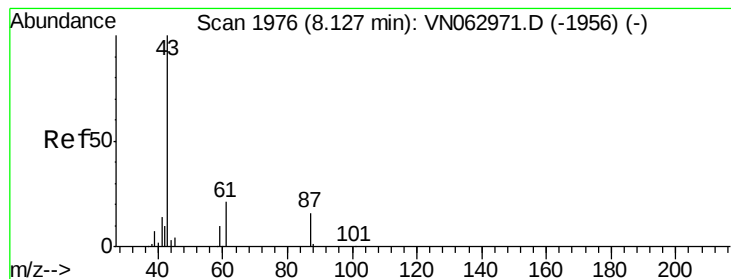
Ion 118.80 (118.50 to 119.50): VN062989.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062989.D (-1760) (-)

7.63

Time-->





#43

Isopropyl Acetate

Concen: 10.989 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampleId :

SP1-3

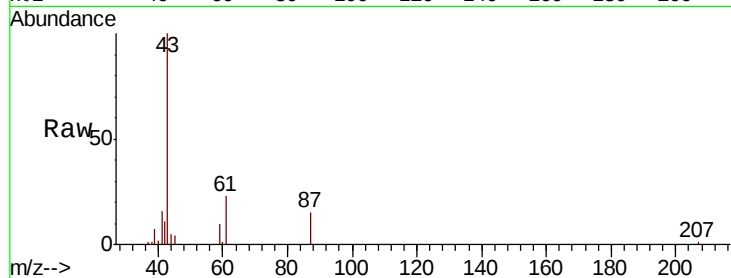
Tot Ion: 43 Resp: 41903

Ion Ratio Lower Upper

43 100

61 22.6 24.6 36.8#

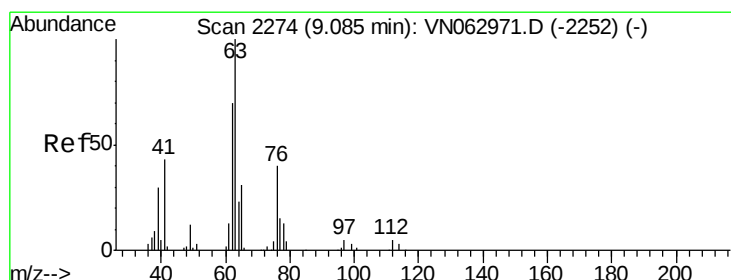
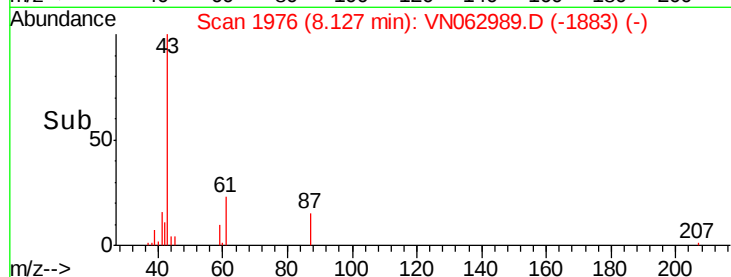
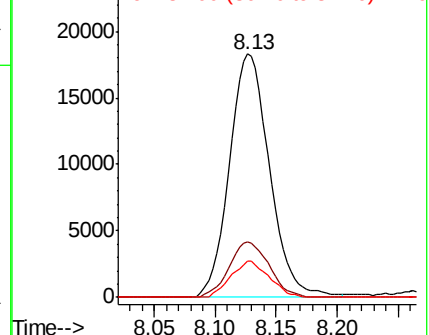
87 14.1 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VN062971.D (-1956) (-)

Ion 61.00 (60.70 to 61.70): VN062971.D (-1956) (-)

Ion 87.00 (86.70 to 87.70): VN062971.D (-1956) (-)



#45

1,2-Dichloropropane

Concen: 0.414 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062989.D

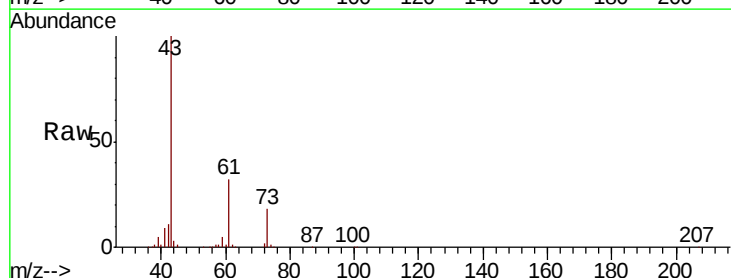
Acq: 17 Aug 2020 23:33

Tgt Ion: 63 Resp: 958

Ion Ratio Lower Upper

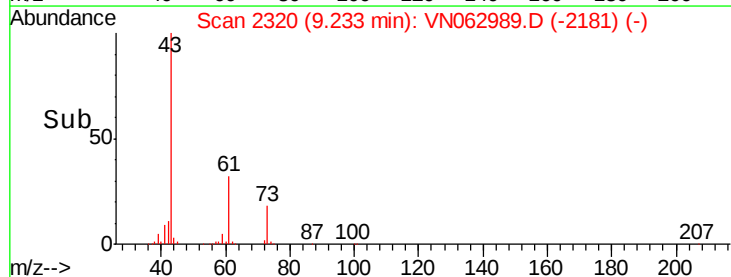
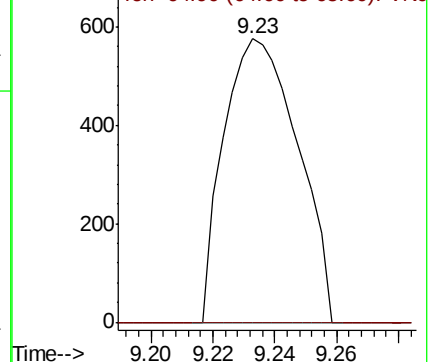
63 100

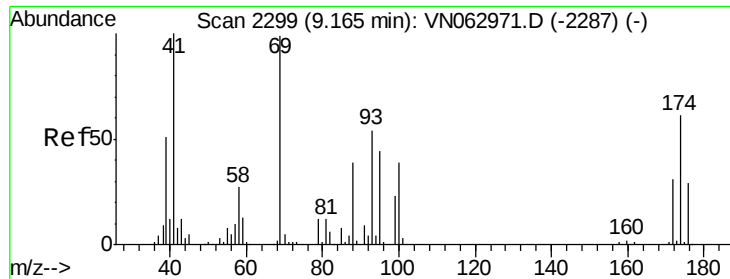
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN062971.D (-2252) (-)

Ion 64.90 (64.60 to 65.60): VN062971.D (-2252) (-)

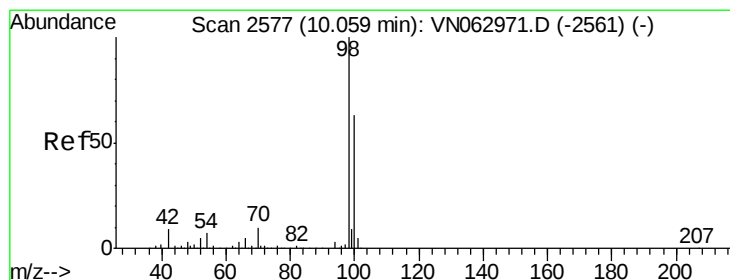
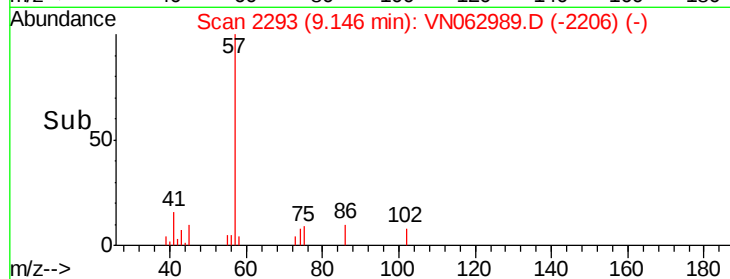
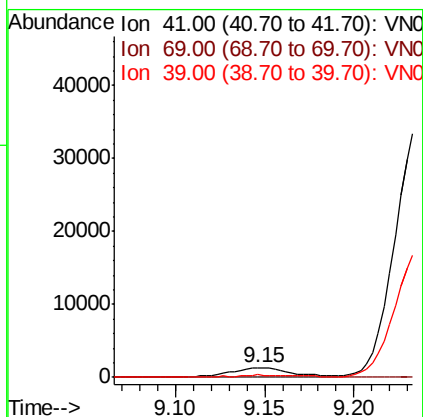
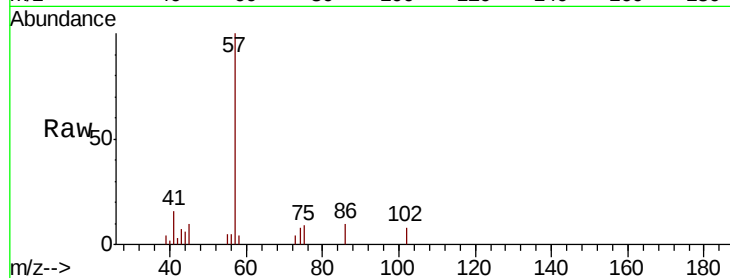




#48
Methvl methacrylate
Concen: 1.684 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

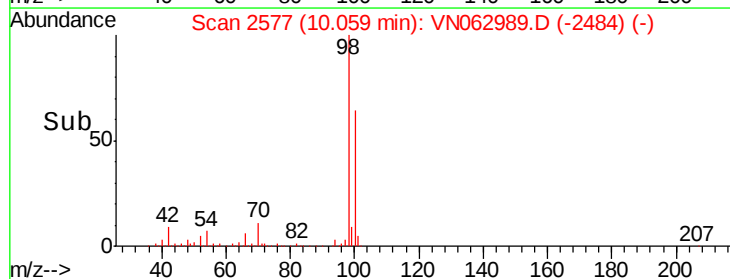
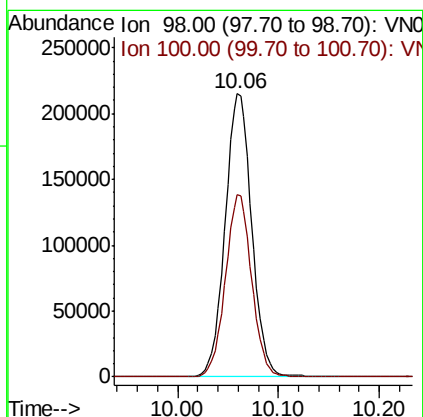
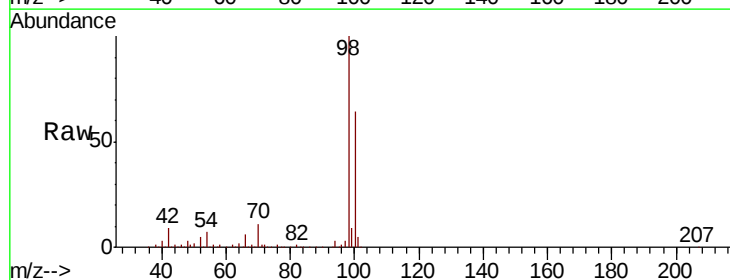
Instrument :
MSVOA_N
ClientSampleId :
SP1-3

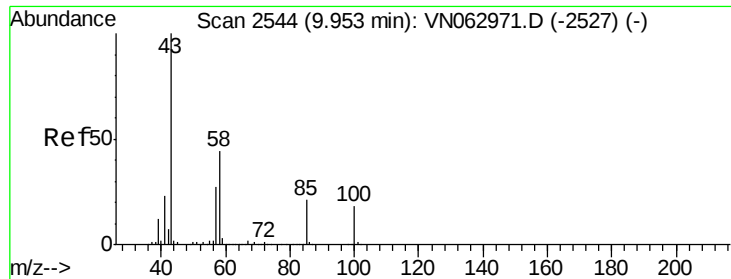
Tot Ion: 41 Resp: 3141
Ion Ratio Lower Upper
41 100
69 0.0 81.1 121.7#
39 0.0 42.4 63.6#



#50
Toluene-d8
Concen: 51.231 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

Tgt Ion: 98 Resp: 396617
Ion Ratio Lower Upper
98 100
100 63.4 51.0 76.4





#51

4-Methyl-2-Pentanone

Concen: 2.509 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampleId :

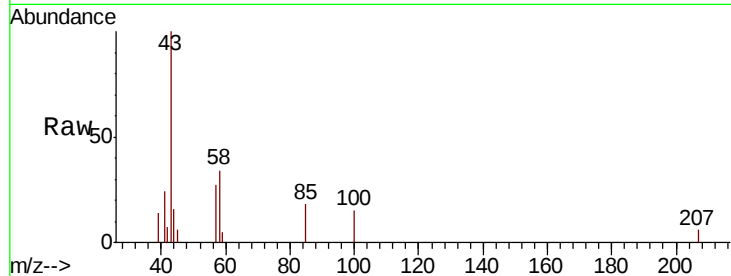
SP1-3

Tot Ion: 43 Resp: 6400

Ion Ratio Lower Upper

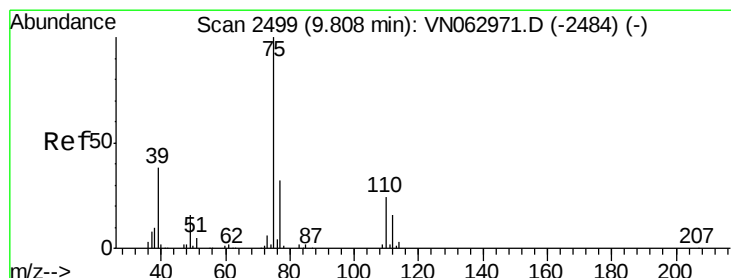
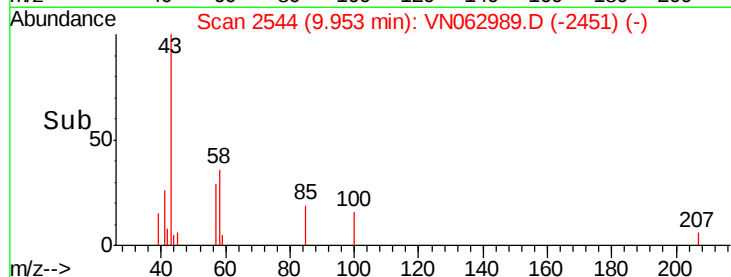
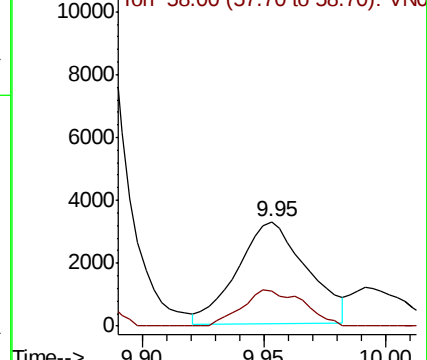
43 100

58 31.5 34.3 51.5#



Abundance Ion 43.00 (42.70 to 43.70): VN062971.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN062971.D (-2527) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.517 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

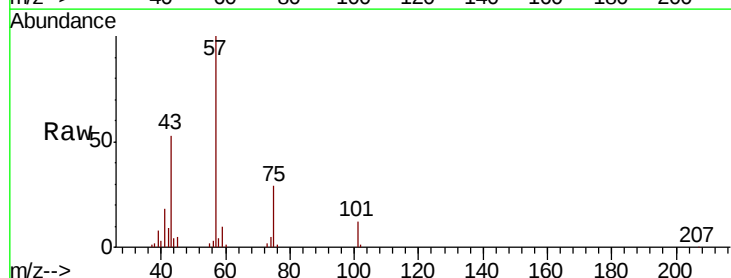
Tgt Ion: 75 Resp: 18784

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

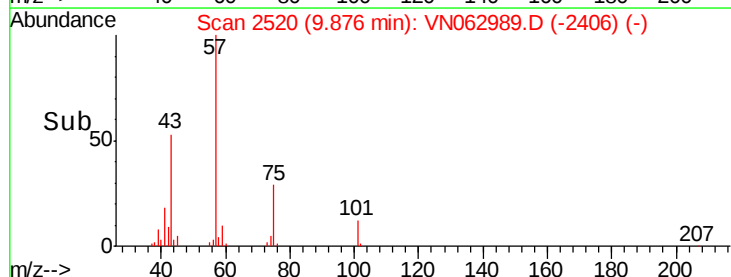
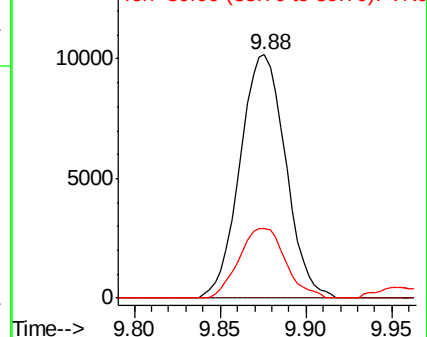
39 28.5 30.6 46.0#

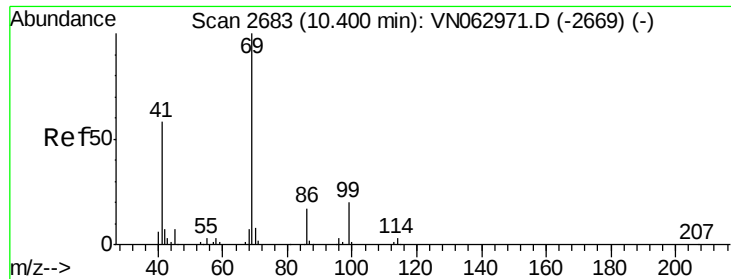


Abundance Ion 74.90 (74.60 to 75.60): VN062971.D (-2484) (-)

Ion 76.90 (76.60 to 77.60): VN062971.D (-2484) (-)

Ion 39.00 (38.70 to 39.70): VN062971.D (-2484) (-)





#56

Ethyl methacrylate

Concen: 3.975 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

SP1-3

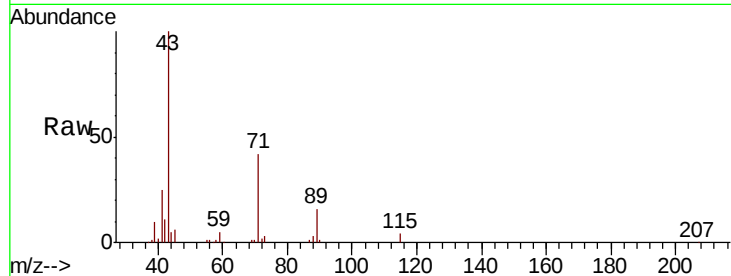
Tot Ion: 69 Resp: 820

Ion Ratio Lower Upper

69 100

41 3024.5 46.0 69.0#

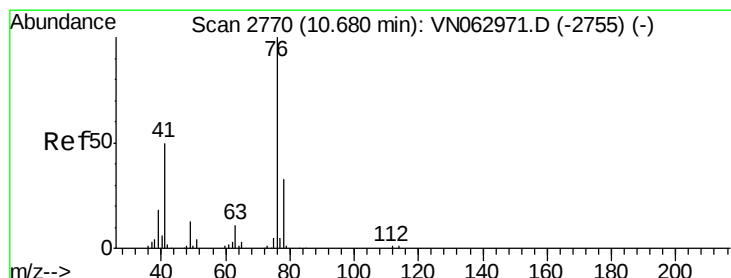
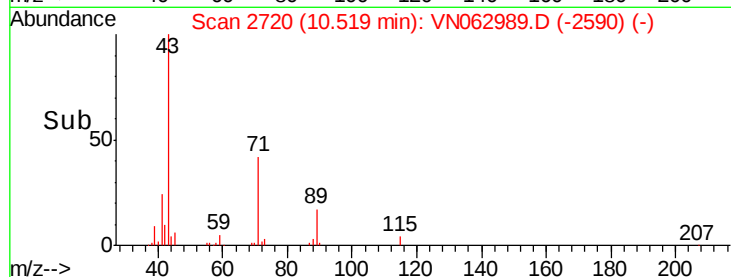
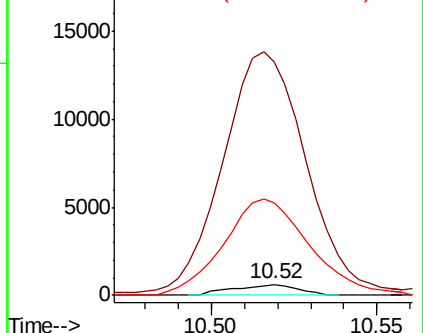
39 1202.6 23.4 35.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.881 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062989.D

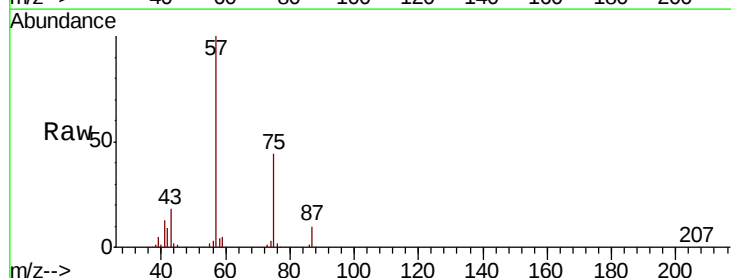
Acq: 17 Aug 2020 23:33

Tgt Ion: 76 Resp: 3090

Ion Ratio Lower Upper

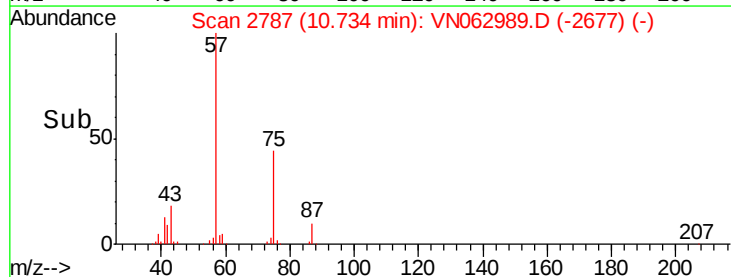
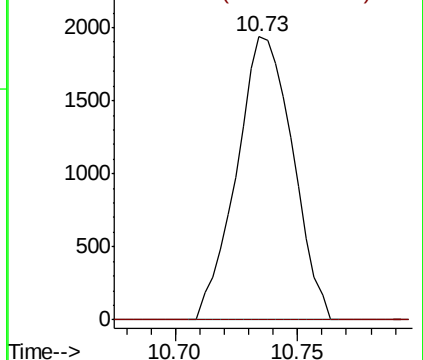
76 100

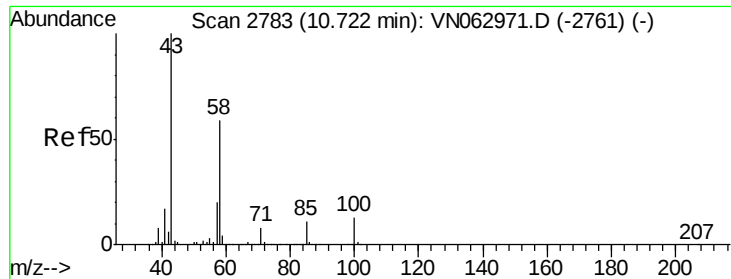
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

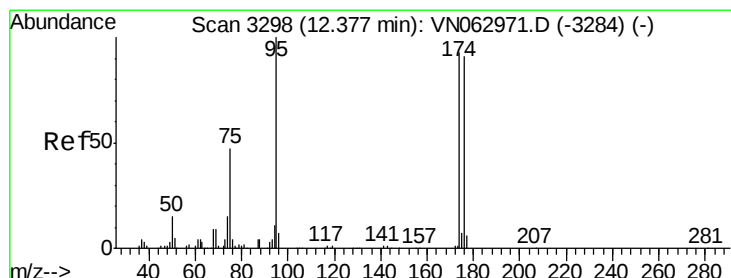
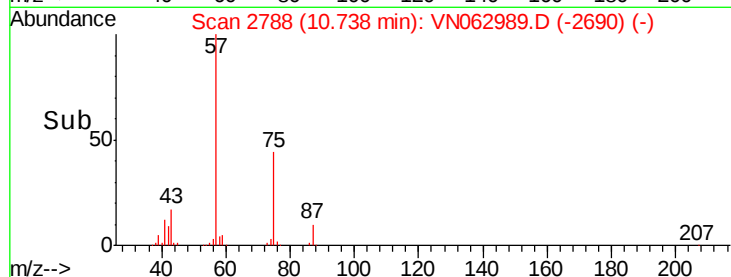
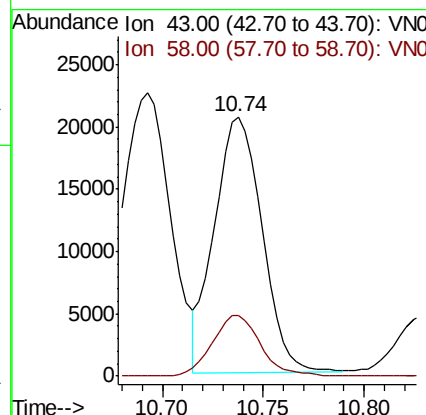
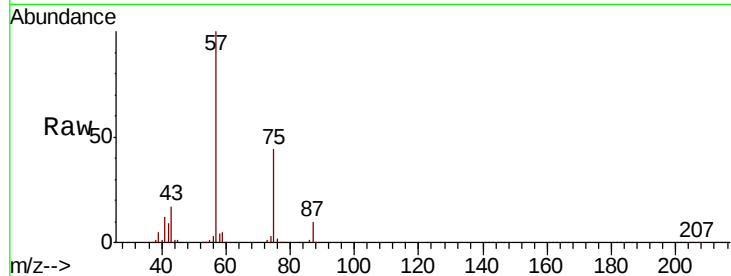




#59
 2-Hexanone
 Concen: 6.080 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062989.D
 Acq: 17 Aug 2020 23:33

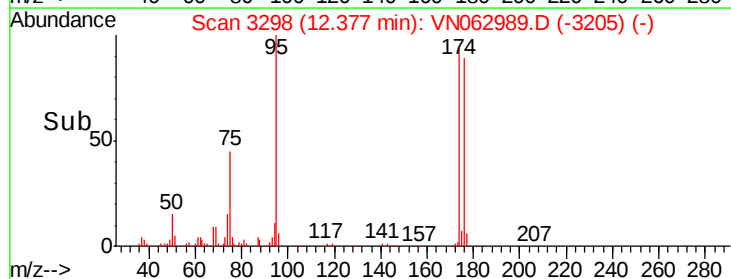
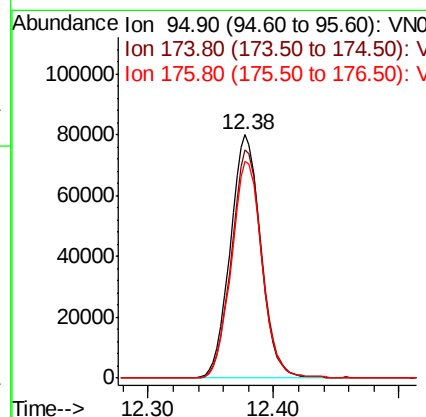
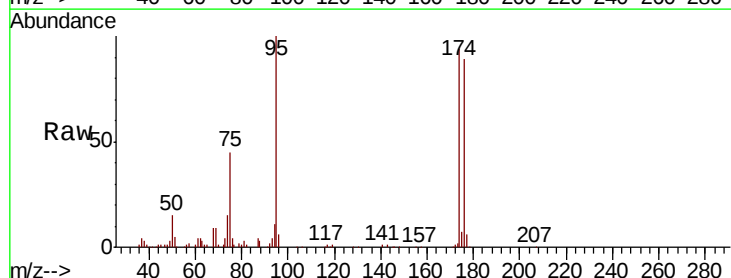
Instrument :
 MSVOA_N
 ClientSampled :
 SP1-3

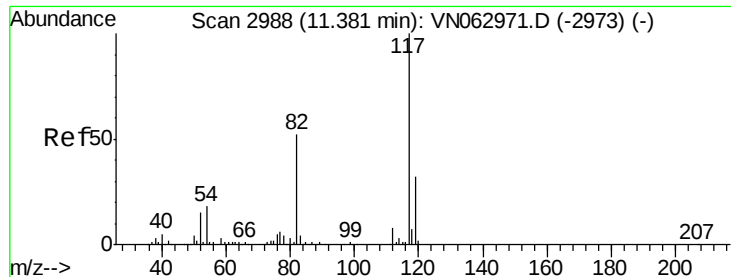
Tot Ion: 43 Resp: 33920
 Ion Ratio Lower Upper
 43 100
 58 23.8 29.5 88.5#



#62
 4-Bromofluorobenzene
 Concen: 48.308 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062989.D
 Acq: 17 Aug 2020 23:33

Tgt Ion: 95 Resp: 134386
 Ion Ratio Lower Upper
 95 100
 174 94.1 0.0 185.2
 176 89.8 0.0 178.8

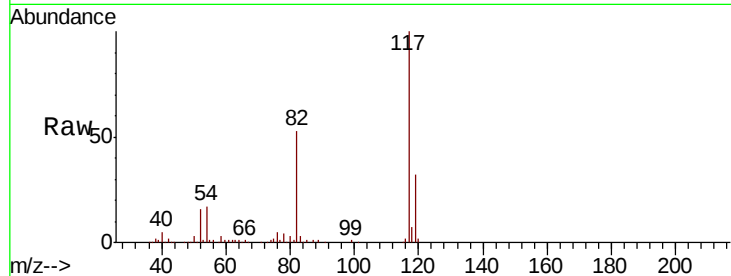




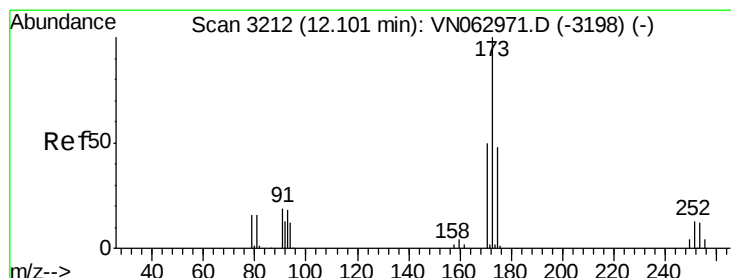
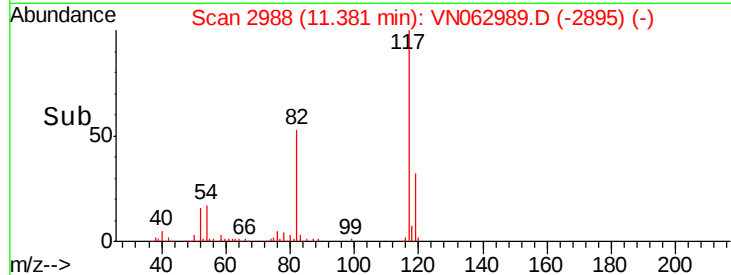
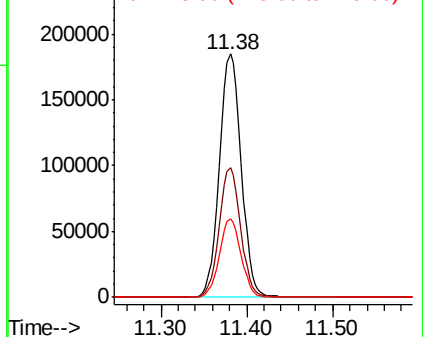
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

Instrument :
MSVOA_N
ClientSampleId :
SP1-3

Tot Ion:117 Resp: 327125
Ion Ratio Lower Upper
117 100
82 53.4 41.3 61.9
119 32.3 25.8 38.8

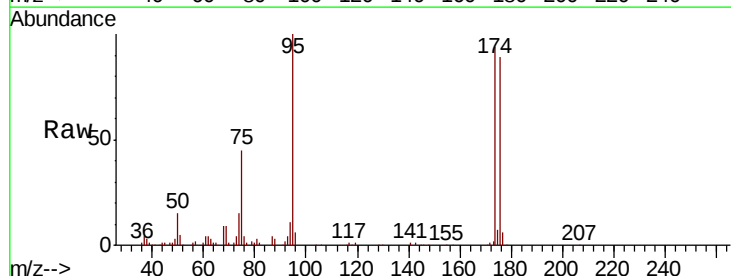


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

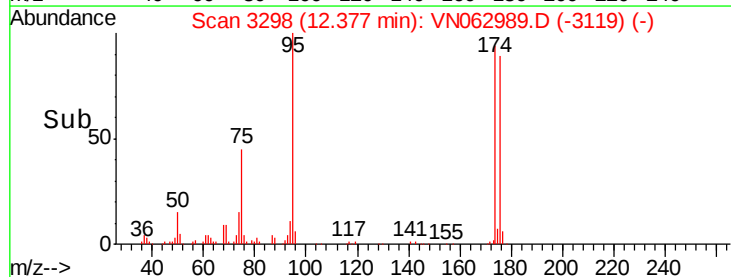
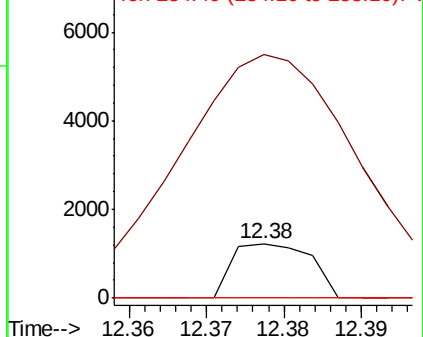


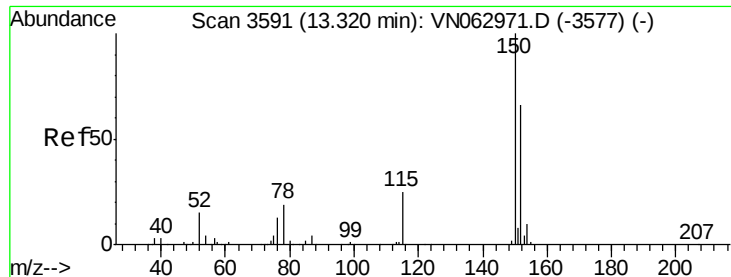
#71
Bromoform
Concen: 0.399 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

Tgt Ion:173 Resp: 868
Ion Ratio Lower Upper
173 100
175 874.2 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: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

SP1-3

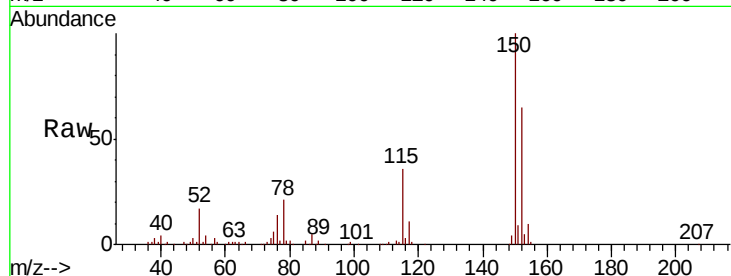
Tot Ion:152 Resp: 123116

Ion Ratio Lower Upper

152 100

115 55.9 27.1 81.3

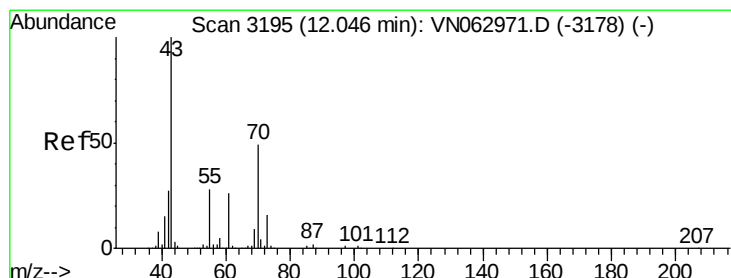
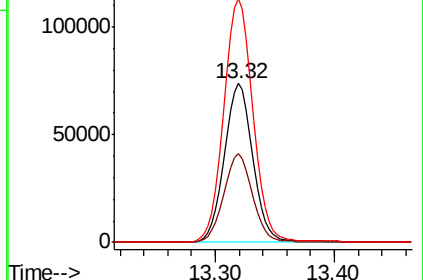
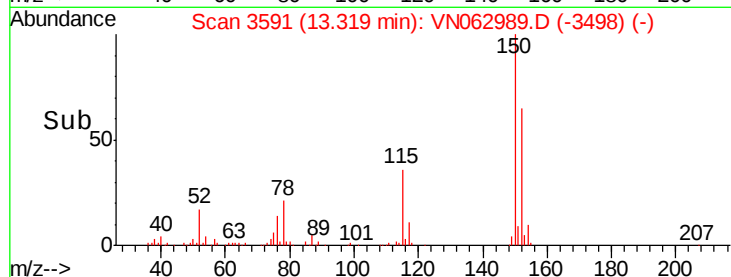
150 155.8 0.0 341.4



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-ethyl acetate

Concen: 0.520 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Tgt Ion: 43 Resp: 1517

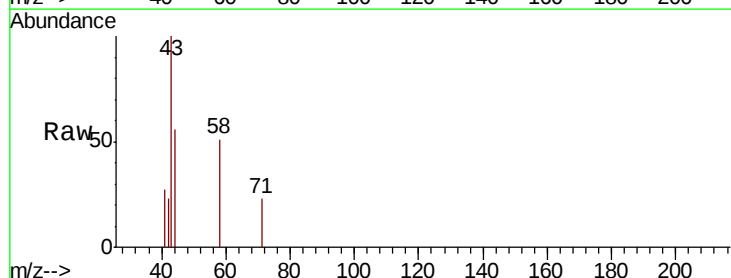
Ion Ratio Lower Upper

43 100

70 0.0 38.4 57.6#

55 0.0 21.9 32.9#

61 0.0 20.6 31.0#

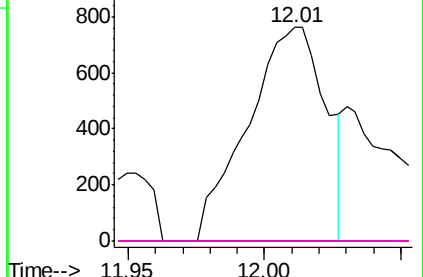
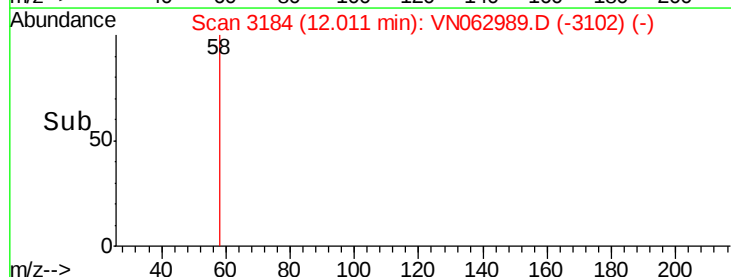


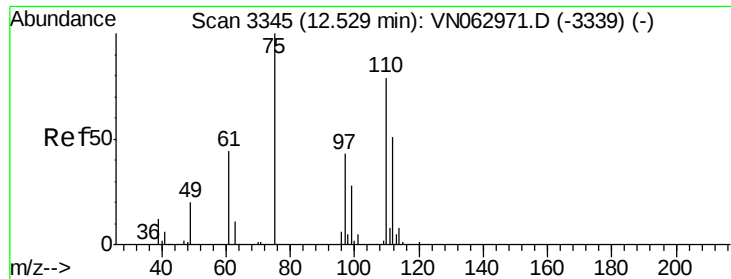
Abundance Ion 43.00 (42.70 to 43.70): V

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: 25.139 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

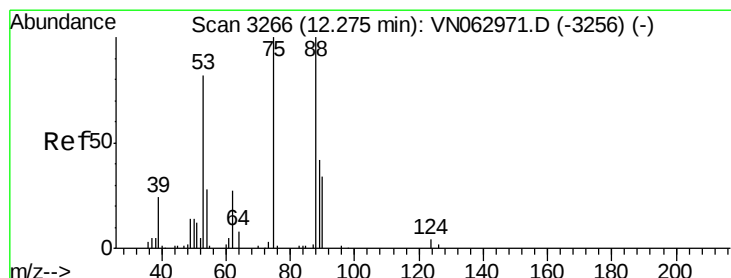
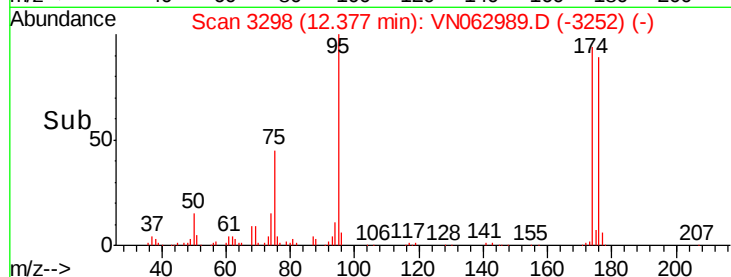
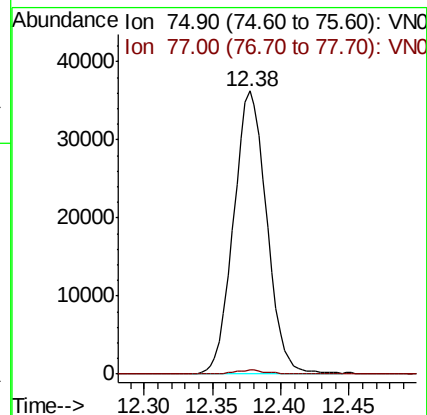
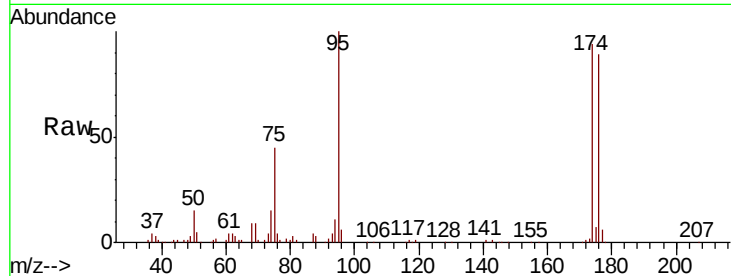
SP1-3

Tot Ion: 75 Resp: 61261

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.467 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062989.D

Acq: 17 Aug 2020 23:33

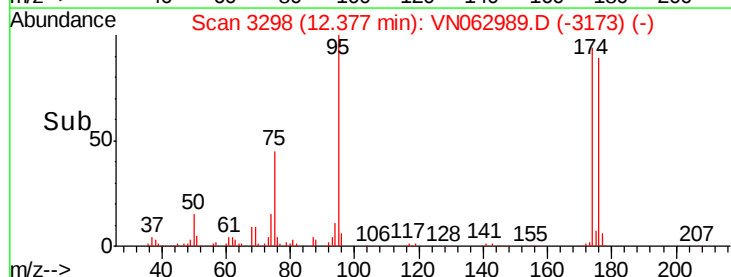
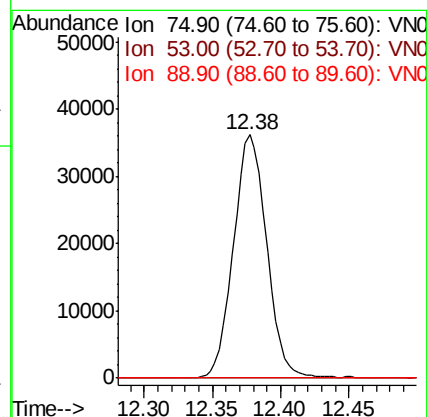
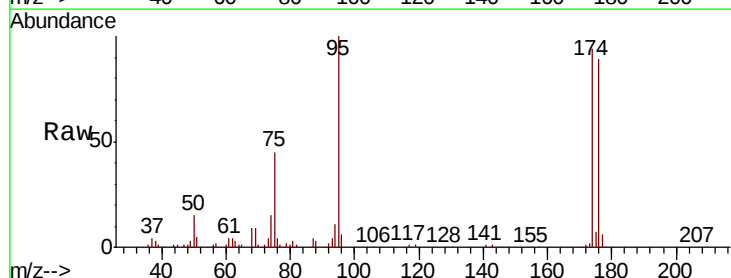
Tgt Ion: 75 Resp: 61261

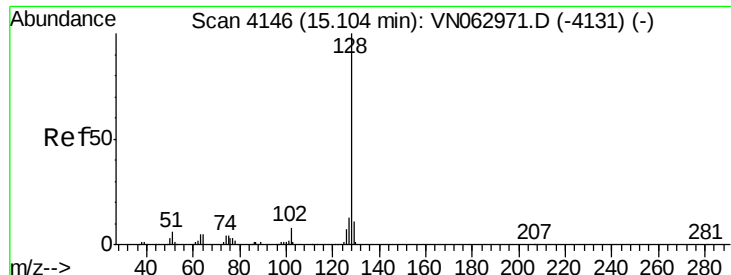
Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.2#

89 0.0 35.0 52.4#





#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062989.D
Acq: 17 Aug 2020 23:33

Instrument :
MSVOA_N
ClientSampleId :
SP1-3

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	12.8#

