

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063020\
 Data File : VN062276.D
 Acq On : 1 Jul 2020 7:08
 Operator : JC/MD
 Sample : L3153-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-G

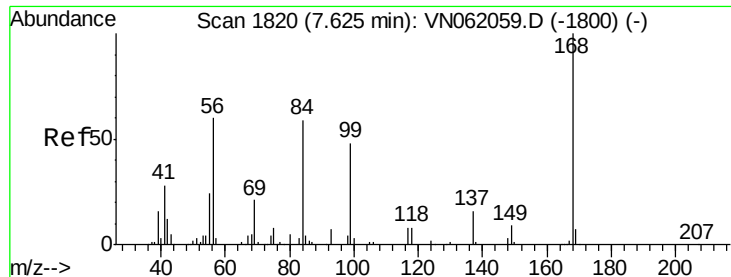
Quant Time: Jul 01 07:47:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204071	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	420813	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	414023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	147277	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	160200	55.94	ug/l	0.00
Spiked Amount			Recovery	=	111.88%	
35) Dibromofluoromethane	7.55	113	128376	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	10.06	98	539665	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.38	95	172504	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	181	Below Cal	#	41
8) Diethyl Ether	3.38	74	484	0.310	ug/l	84
16) Acetone	3.78	43	67225	71.899	ug/l	94
18) Methyl Acetate	4.28	43	7243	3.182	ug/l	94
20) Methylene Chloride	4.50	84	27616	10.333	ug/l	97
25) 2-Butanone	6.79	43	1861	1.329	ug/l #	74
29) Tetrahydrofuran	7.17	42	355	0.387	ug/l #	34
31) Cyclohexane	7.62	56	4826	1.220	ug/l #	14
36) 1,1-Dichloropropene	7.63	75	17937	4.241	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21279	5.336	ug/l #	16
43) Isopropyl Acetate	8.13	43	34327	6.012	ug/l	98
48) Methyl methacrylate	9.15	41	2535	0.990	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	5561	1.667	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	20825	4.083	ug/l #	69
56) Ethyl methacrylate	10.51	69	1286	0.312	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	1683	0.316	ug/l #	42
59) 2-Hexanone	10.74	43	20680	8.585	ug/l #	54
71) Bromoform	12.38	173	920	0.412	ug/l #	1
74) N-amyl acetate	12.08	43	124	3.371	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	90311	26.049	ug/l #	100
78) n-propylbenzene	12.65	91	2755	0.211	ug/l #	53
79) 2-Chlorotoluene	12.65	91	2755	0.349	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	90311	76.072	ug/l #	13
82) 4-Chlorotoluene	12.75	91	2991	0.367	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062276.D

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MSVOA_N

ClientSampleId :

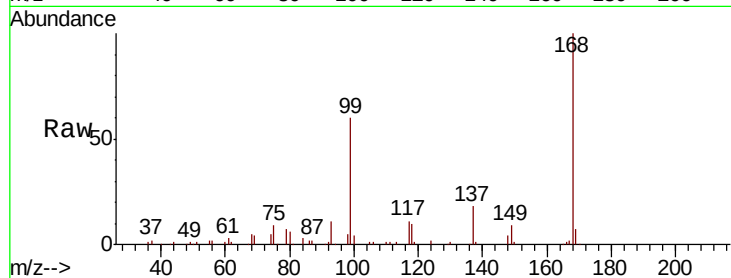
SP2-G

Tot Ion:168 Resp: 204071

Ion Ratio Lower Upper

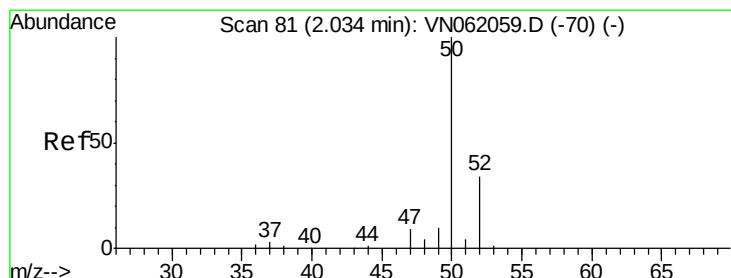
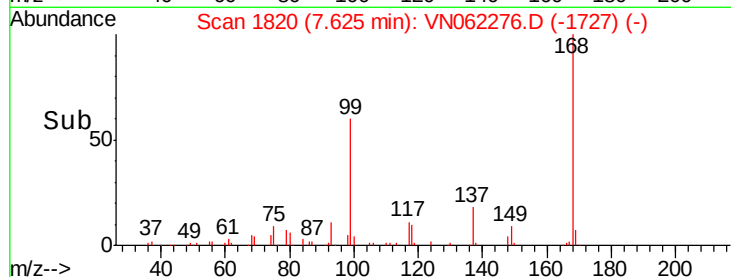
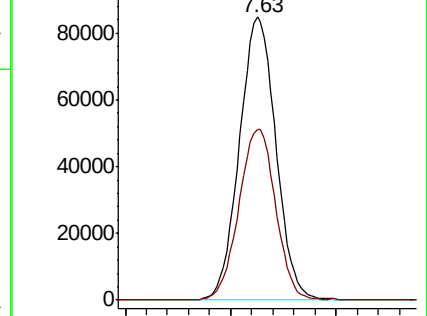
168 100

99 60.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062276.D

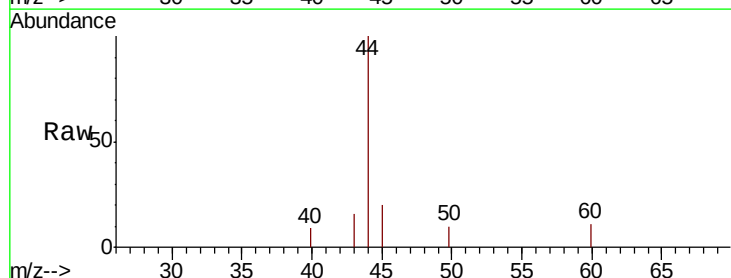
Acq: 1 Jul 2020 7:08

Tgt Ion: 50 Resp: 181

Ion Ratio Lower Upper

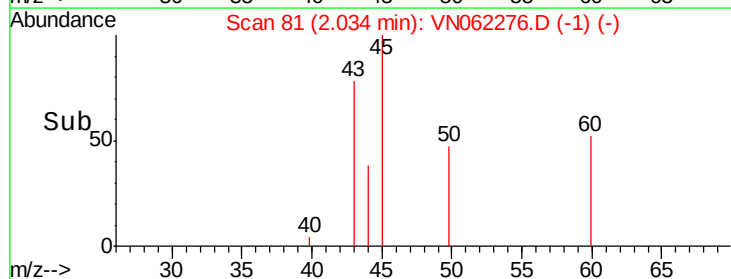
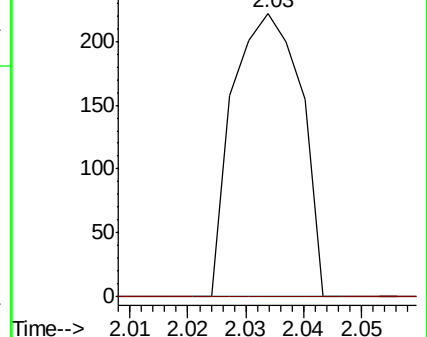
50 100

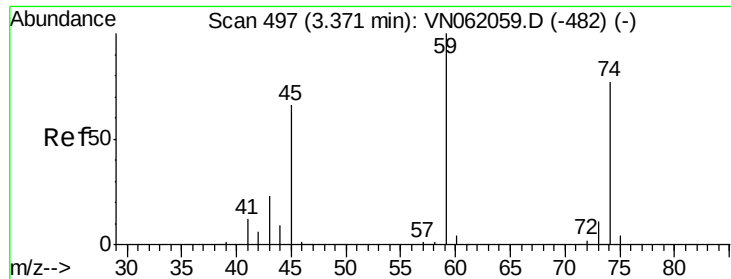
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#8

Diethyl Ether

Concen: 0.310 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.01 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

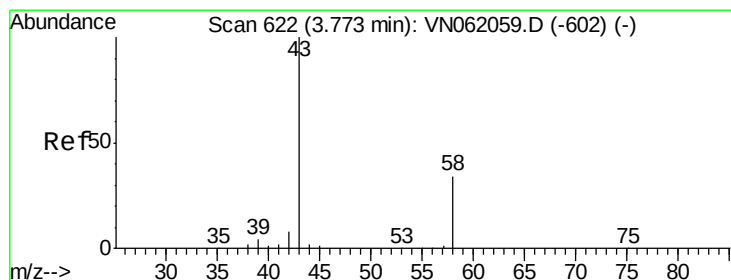
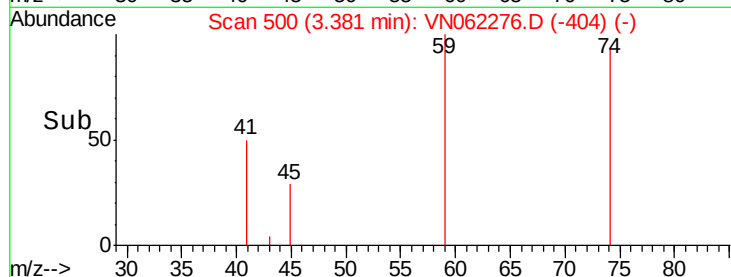
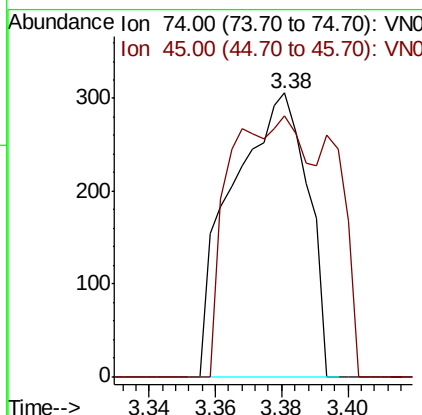
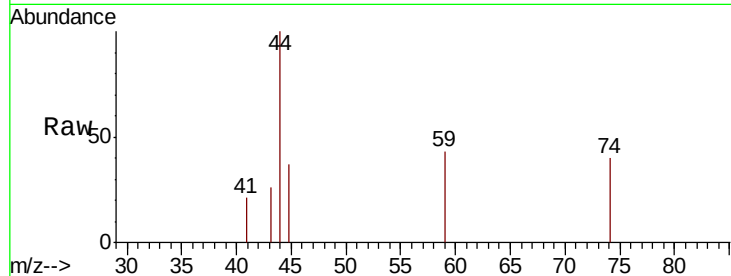
SP2-G

Tot Ion: 74 Resp: 484

Ion Ratio Lower Upper

74 100

45 99.4 42.5 127.5



#16

Acetone

Concen: 71.899 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062276.D

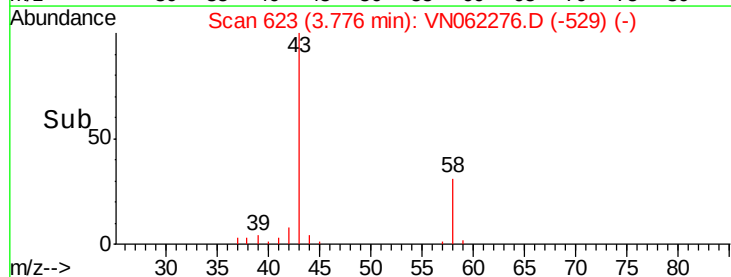
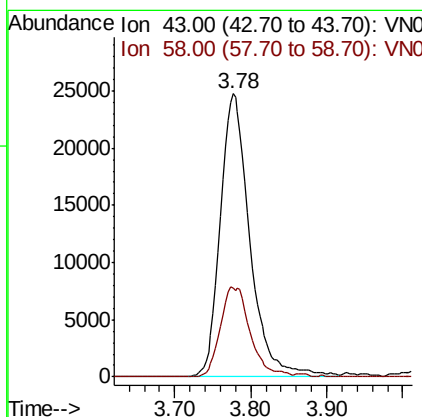
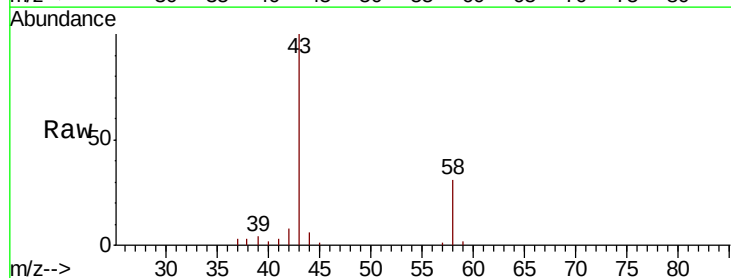
Acq: 1 Jul 2020 7:08

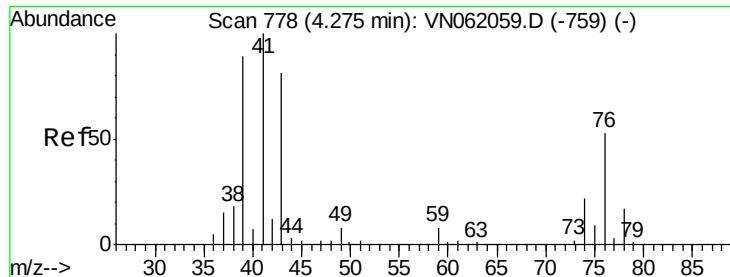
Tgt Ion: 43 Resp: 67225

Ion Ratio Lower Upper

43 100

58 31.2 27.5 41.3

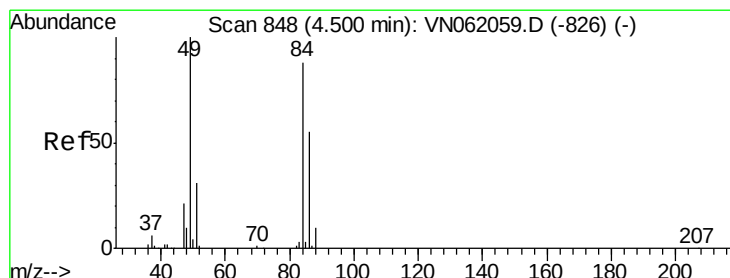
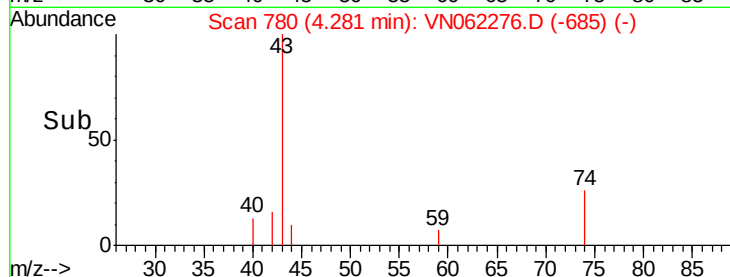
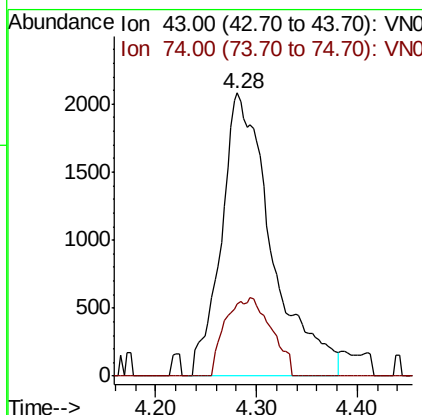
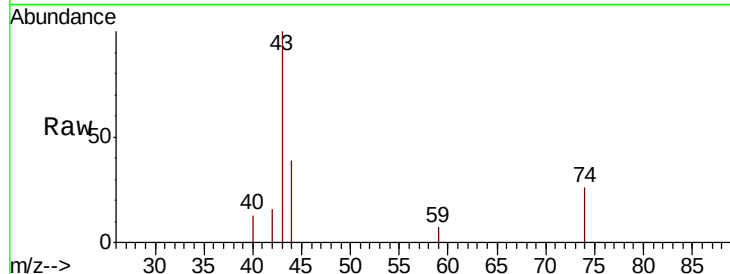




#18
Methyl Acetate
Concen: 3.182 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

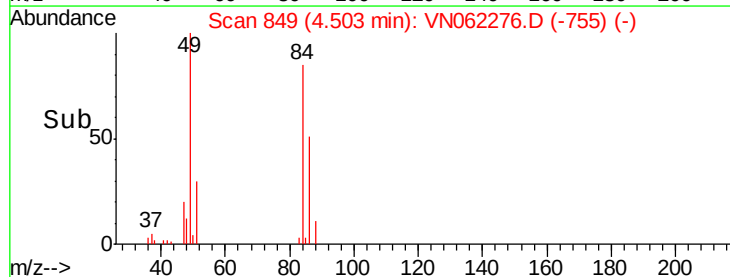
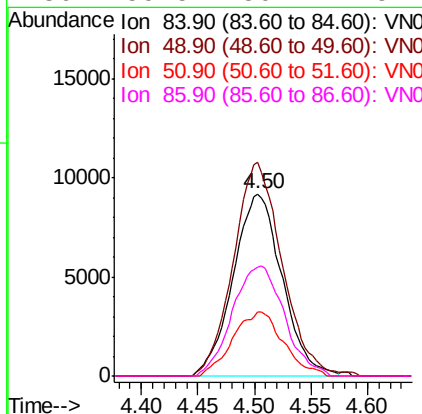
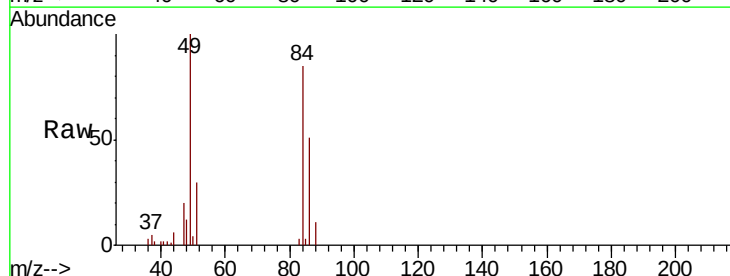
Instrument :
MSVOA_N
ClientSampleId :
SP2-G

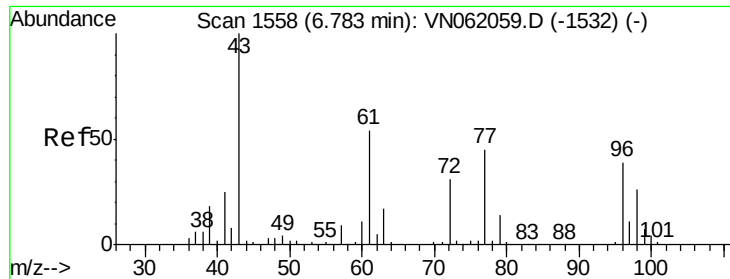
Tot Ion: 43 Resp: 7243
Ion Ratio Lower Upper
43 100
74 25.2 22.9 34.3



#20
Methylene Chloride
Concen: 10.333 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion: 84 Resp: 27616
Ion Ratio Lower Upper
84 100
49 117.4 90.6 136.0
51 34.9 27.8 41.8
86 59.5 50.1 75.1

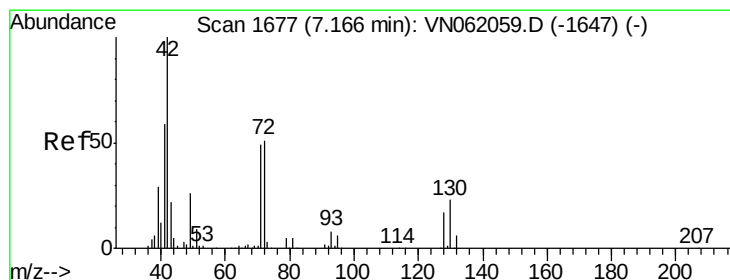
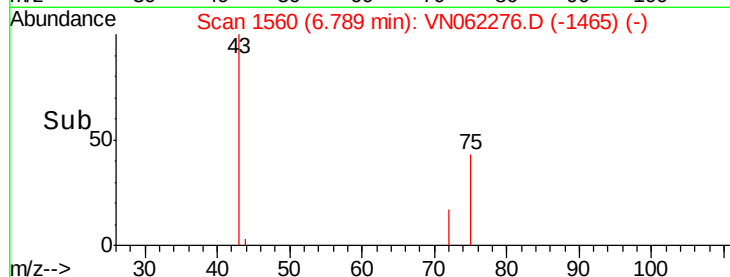
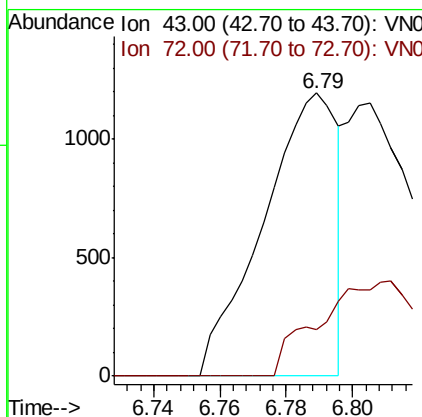
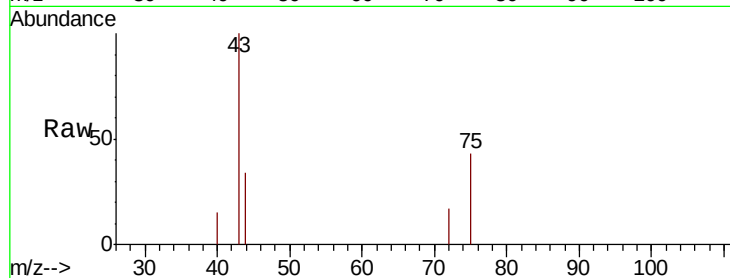




#25
2-Butanone
Concen: 1.329 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

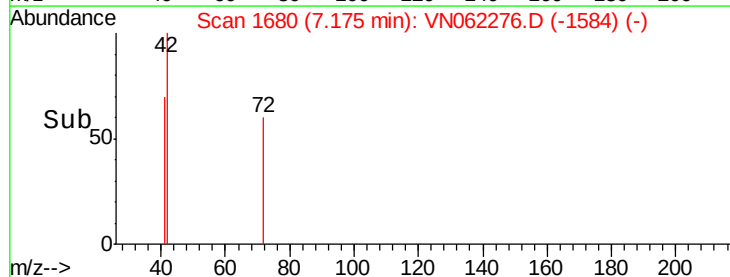
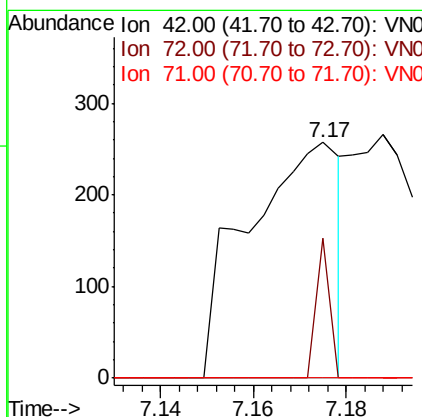
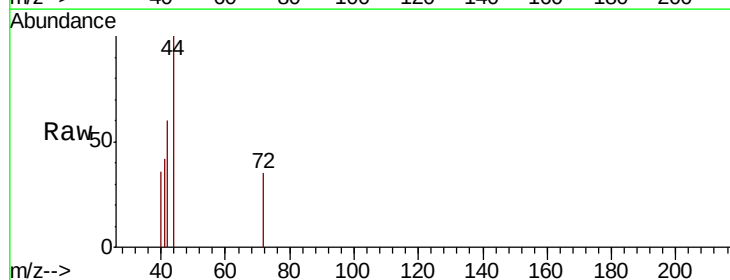
Instrument :
MSVOA_N
ClientSampled :
SP2-G

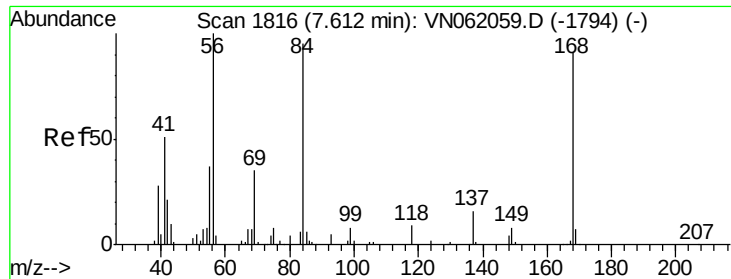
Tot Ion: 43 Resp: 1861
Ion Ratio Lower Upper
43 100
72 16.6 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.387 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion: 42 Resp: 355
Ion Ratio Lower Upper
42 100
72 8.5 41.1 61.7#
71 0.0 38.2 57.4#

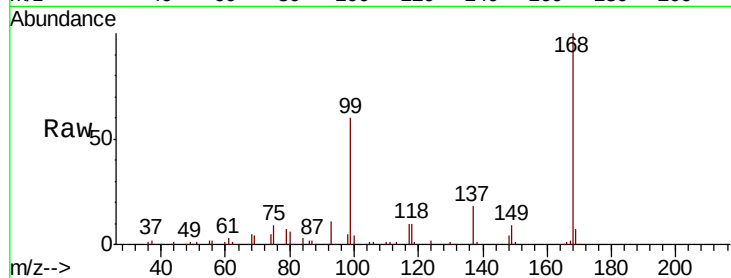




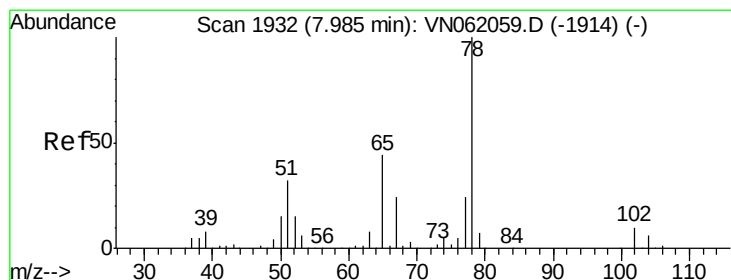
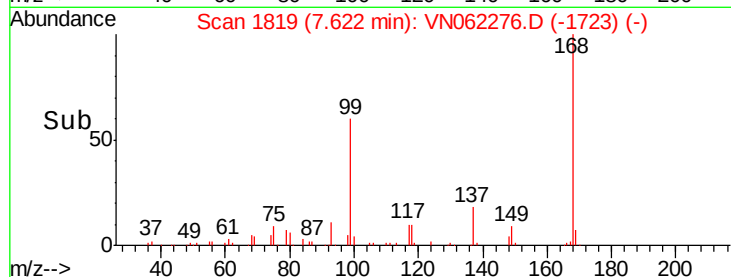
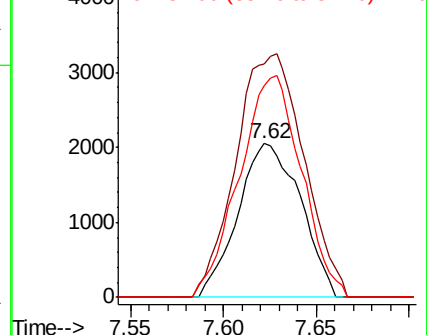
#31
Cyclohexane
Concen: 1.220 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Instrument :
MSVOA_N
ClientSampled :
SP2-G

Tot Ion: 56 Resp: 4826
Ion Ratio Lower Upper
56 100
69 151.8 28.0 42.0#
84 137.8 76.1 114.1#

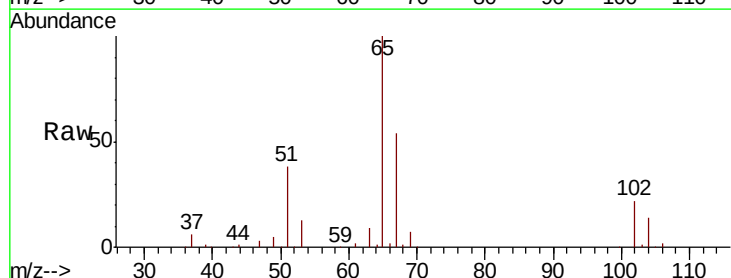


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

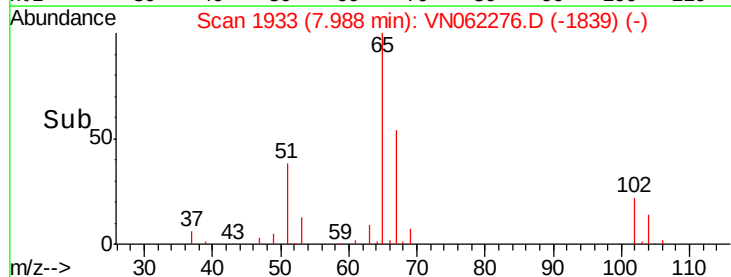
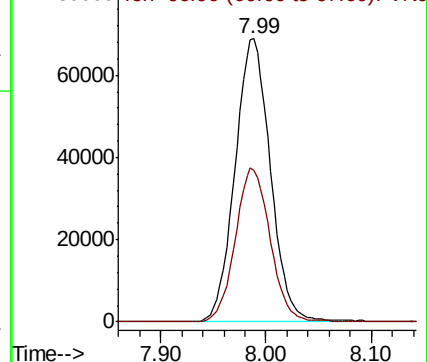


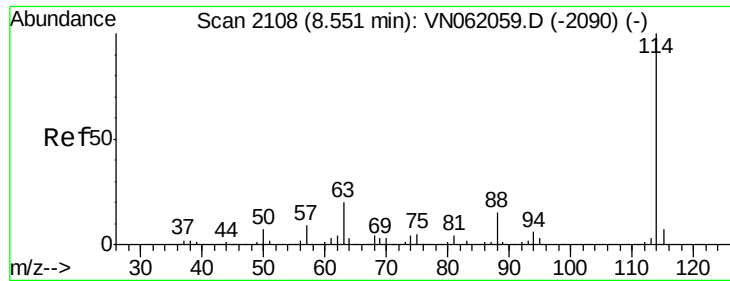
#33
1,2-Dichloroethane-d4
Concen: 55.940 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion: 65 Resp: 160200
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

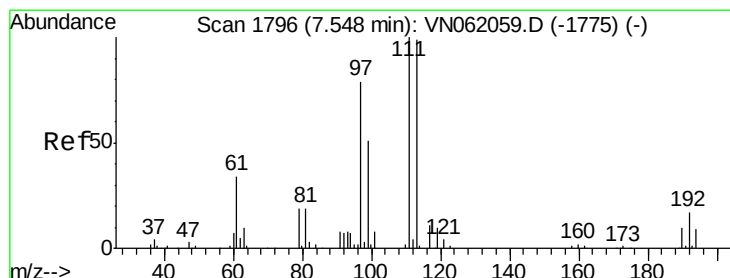
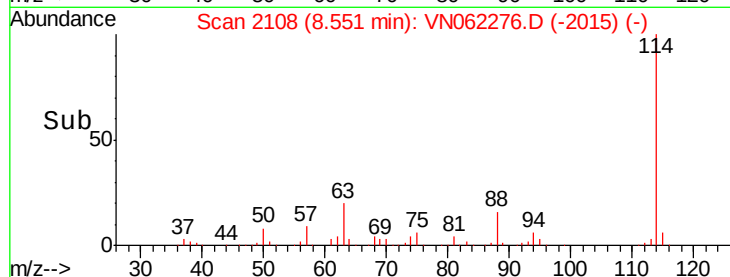
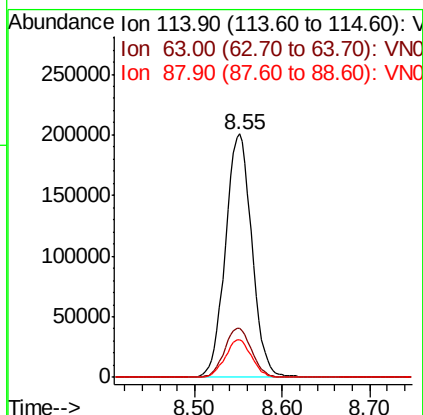
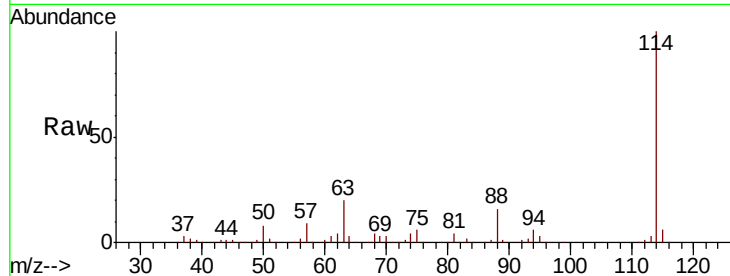




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

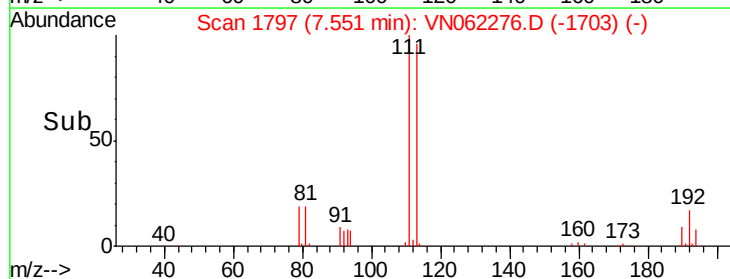
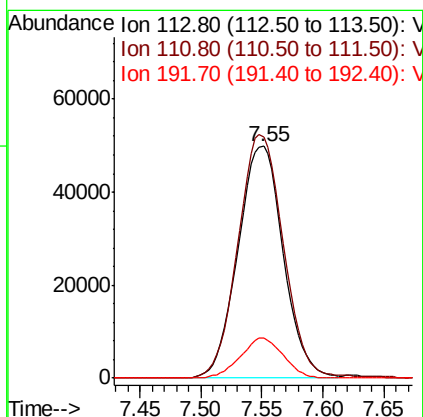
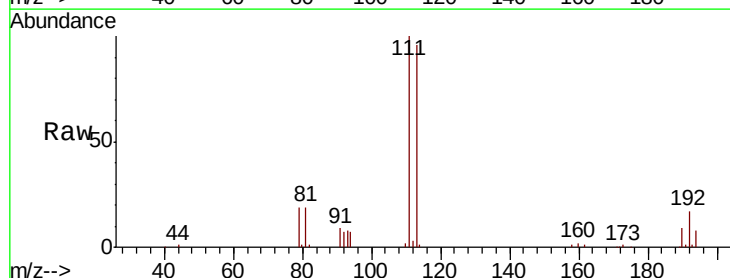
Instrument :
MSVOA_N
ClientSampleId :
SP2-G

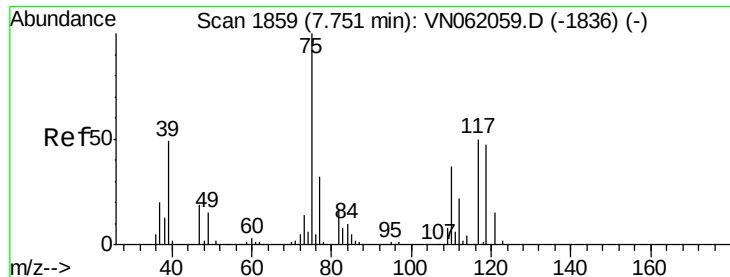
Tot Ion:114 Resp: 420813
Ion Ratio Lower Upper
114 100
63 20.2 0.0 39.2
88 15.6 0.0 30.8



#35
Dibromofluoromethane
Concen: 47.552 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion:113 Resp: 128376
Ion Ratio Lower Upper
113 100
111 105.9 82.2 123.4
192 16.4 14.0 21.0





#36

1,1-Dichloropropene

Concen: 4.241 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampleId :

SP2-G

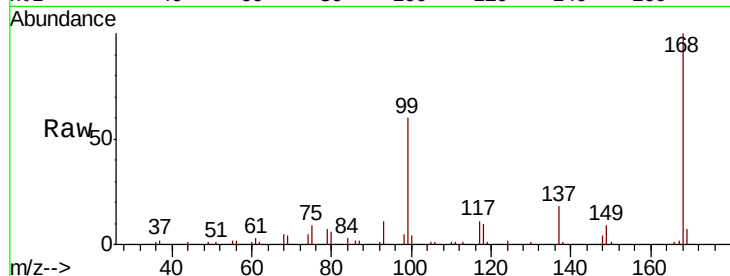
Tot Ion: 75 Resp: 17937

Ion Ratio Lower Upper

75 100

110 7.4 17.9 53.8#

77 0.0 24.9 37.3#



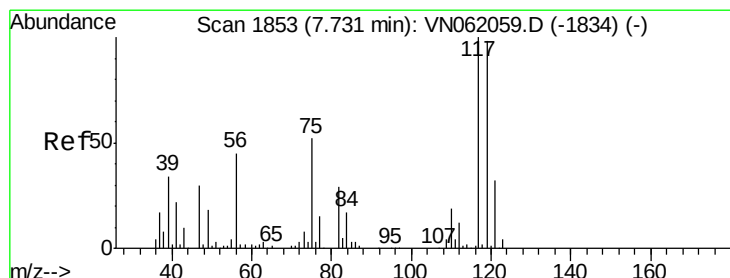
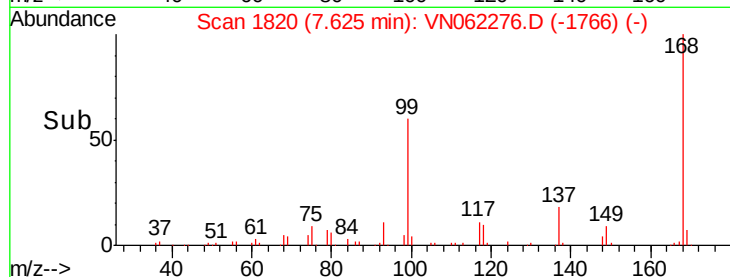
Abundance Ion 74.90 (74.60 to 75.60): VN062276.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062276.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062276.D (-1766) (-)

7.63

Time-->



#38

Carbon Tetrachloride

Concen: 5.336 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

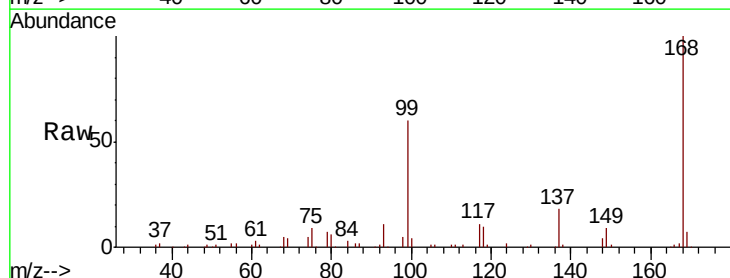
Tgt Ion: 117 Resp: 21279

Ion Ratio Lower Upper

117 100

119 6.3 78.2 117.2#

121 0.0 25.8 38.6#



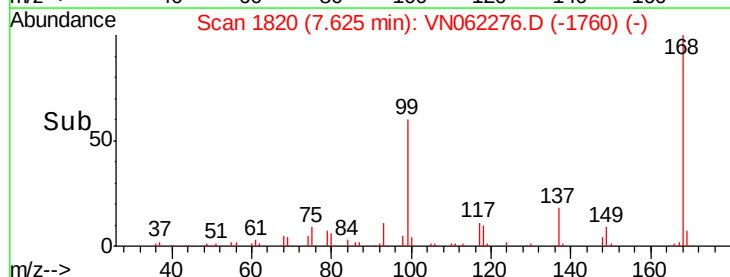
Abundance Ion 116.80 (116.50 to 117.50): VN062276.D (-1760) (-)

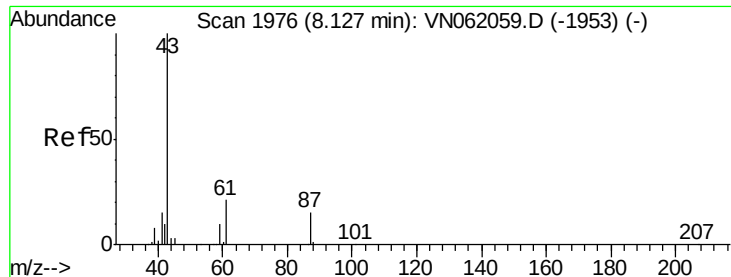
Ion 118.80 (118.50 to 119.50): VN062276.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062276.D (-1760) (-)

7.63

Time-->





#43

Isopropyl Acetate

Concen: 6.012 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

SP2-G

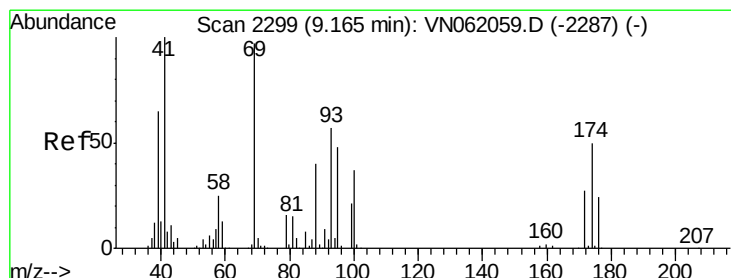
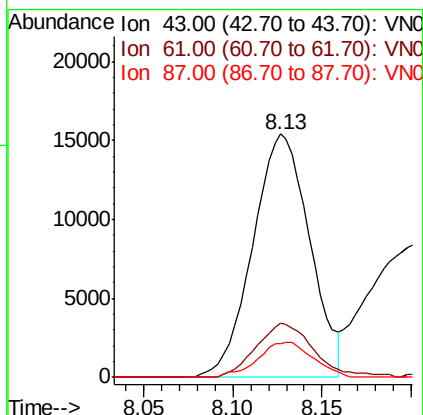
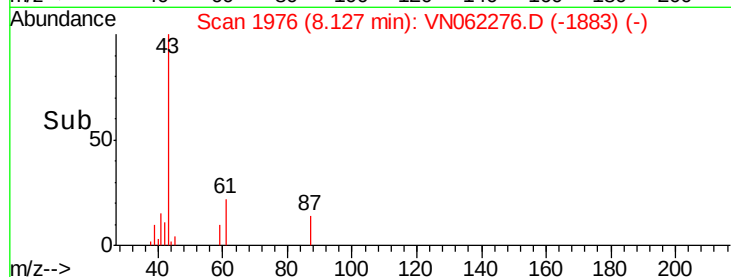
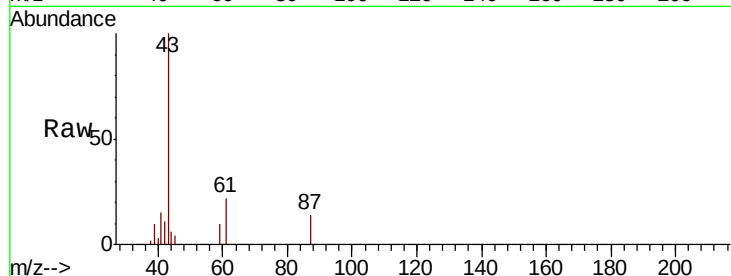
Tot Ion: 43 Resp: 34327

Ion Ratio Lower Upper

43 100

61 22.5 17.2 25.8

87 13.9 12.1 18.1



#48

Methyl methacrylate

Concen: 0.990 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

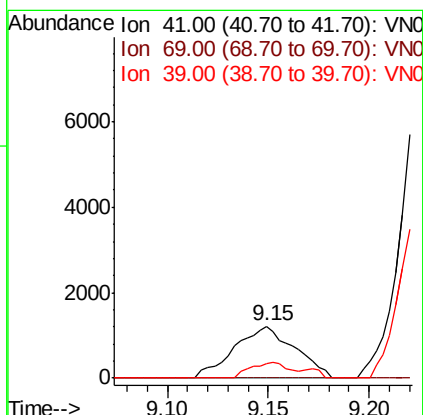
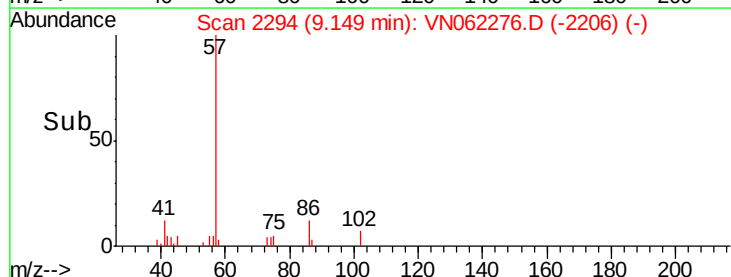
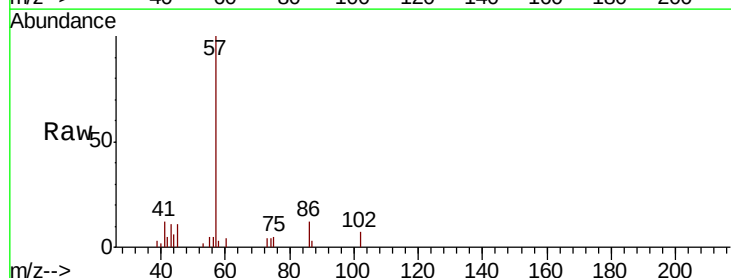
Tgt Ion: 41 Resp: 2535

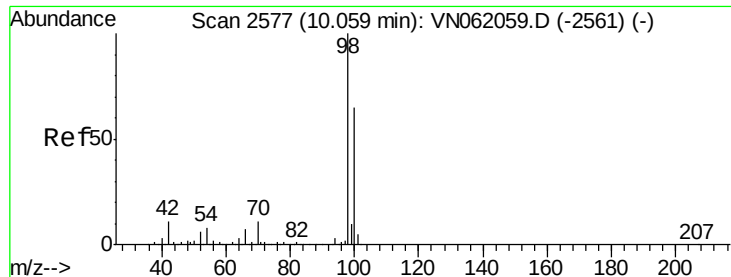
Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

39 19.4 54.5 81.7#





#50

Toluene-d8

Concen: 50.008 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

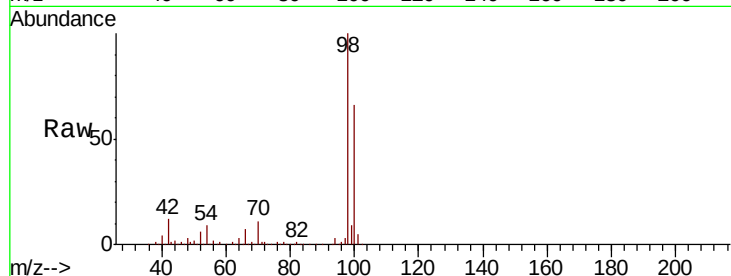
SP2-G

Tot Ion: 98 Resp: 539665

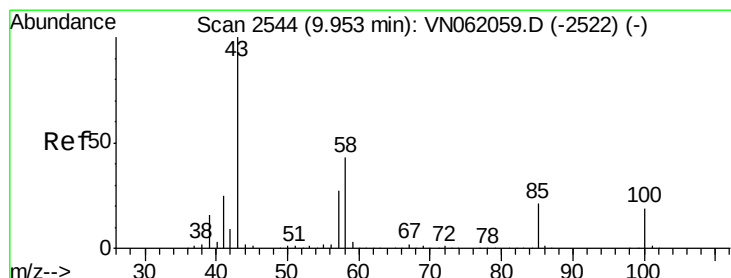
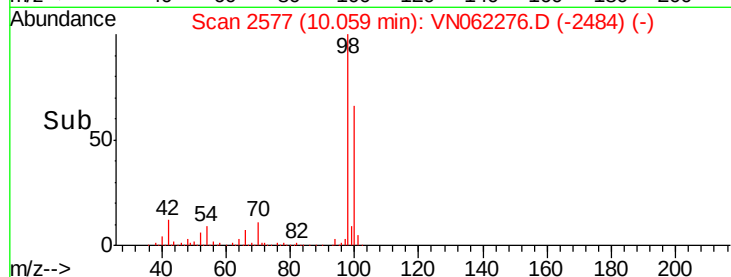
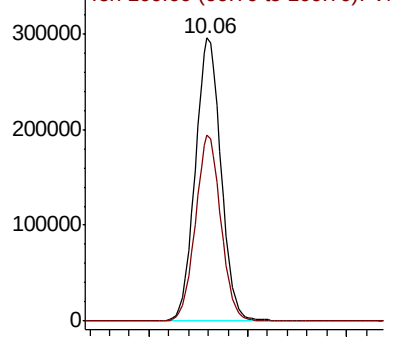
Ion Ratio Lower Upper

98 100

100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.667 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062276.D

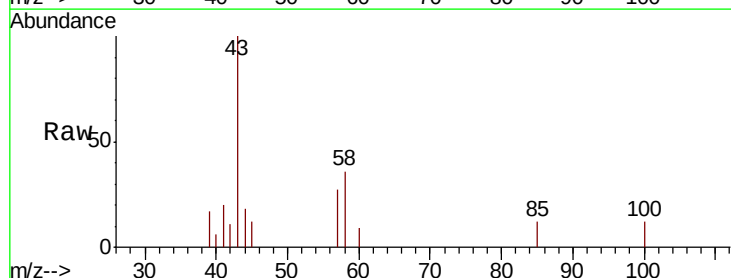
Acq: 1 Jul 2020 7:08

Tgt Ion: 43 Resp: 5561

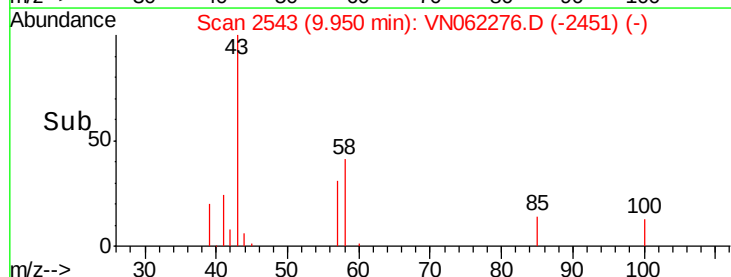
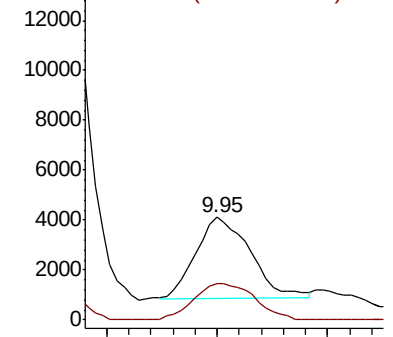
Ion Ratio Lower Upper

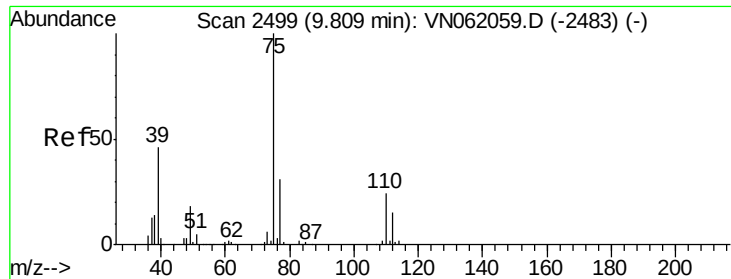
43 100

58 50.0 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

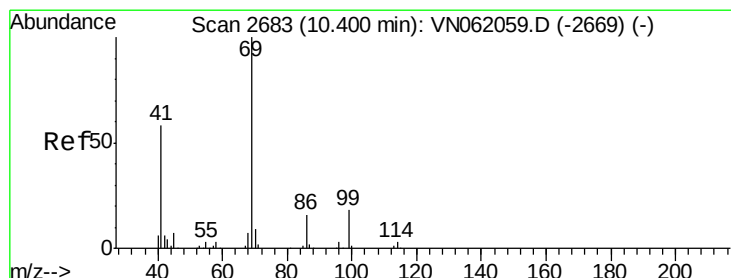
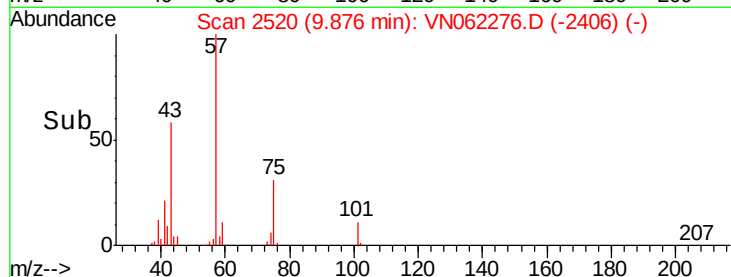
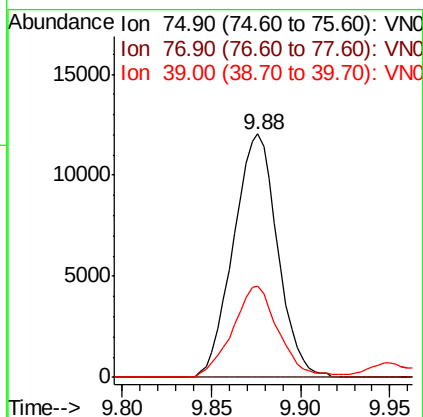
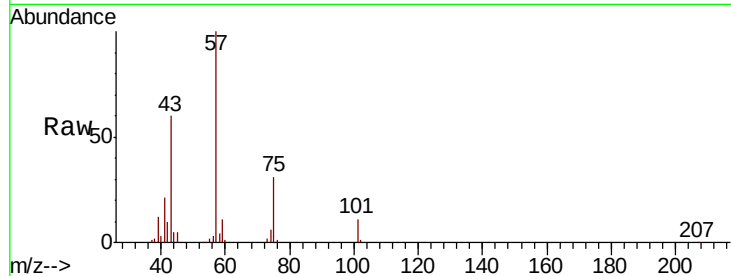




#54
 cis-1,3-Dichloropropene
 Concen: 4.083 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062276.D
 Acq: 1 Jul 2020 7:08

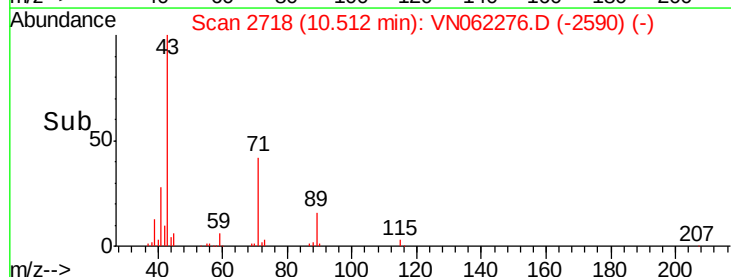
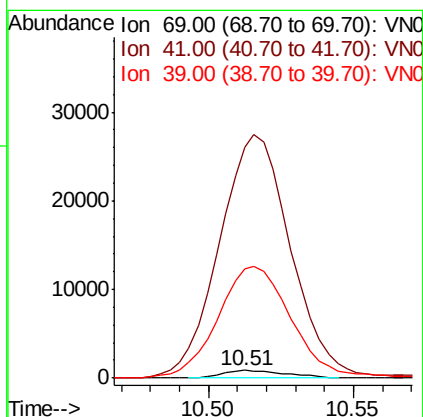
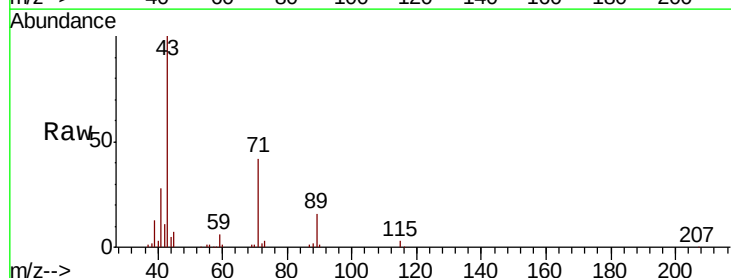
Instrument :
 MSVOA_N
 ClientSampled :
 SP2-G

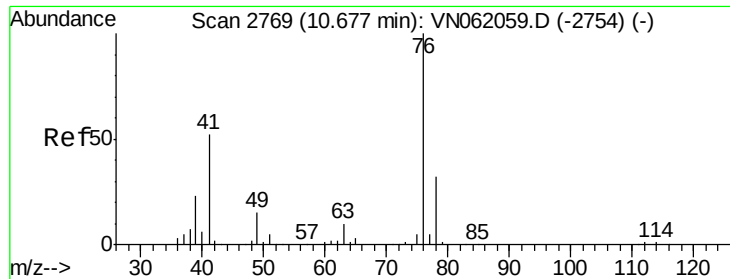
Tot Ion: 75 Resp: 20825
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 37.6 36.9 55.3



#56
 Ethyl methacrylate
 Concen: 0.312 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062276.D
 Acq: 1 Jul 2020 7:08

Tgt Ion: 69 Resp: 1286
 Ion Ratio Lower Upper
 69 100
 41 3685.4 46.6 70.0#
 39 1723.6 31.0 46.4#





#57

1,3-Dichloropropane

Concen: 0.316 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

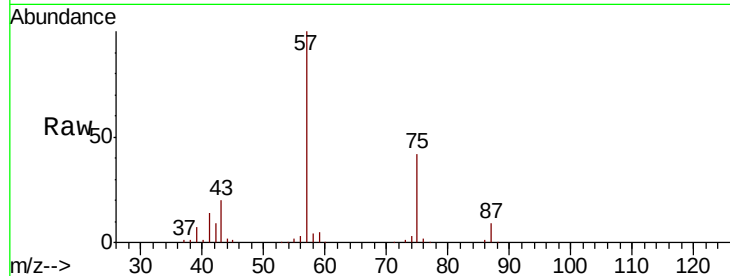
SP2-G

Tot Ion: 76 Resp: 1683

Ion Ratio Lower Upper

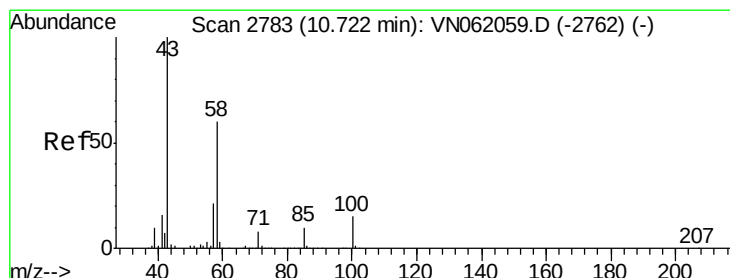
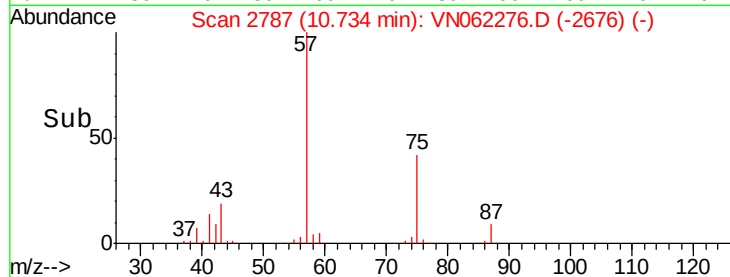
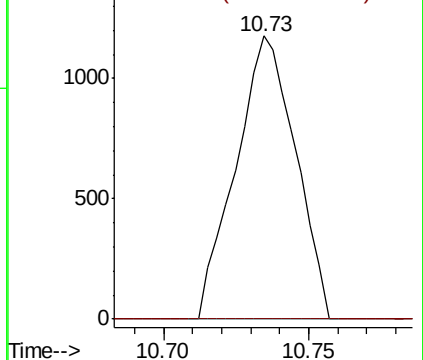
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 8.585 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062276.D

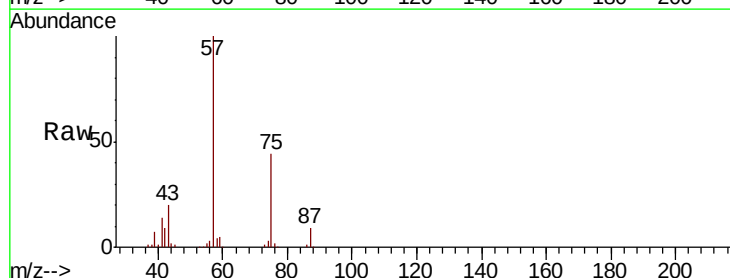
Acq: 1 Jul 2020 7:08

Tgt Ion: 43 Resp: 20680

Ion Ratio Lower Upper

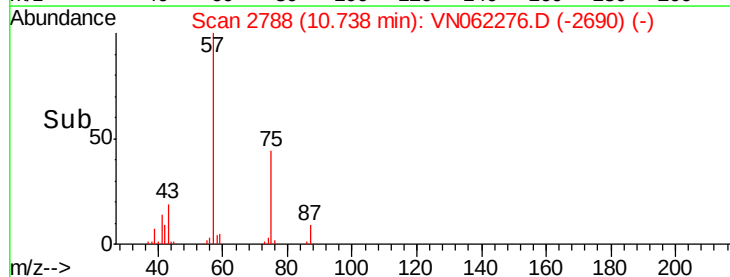
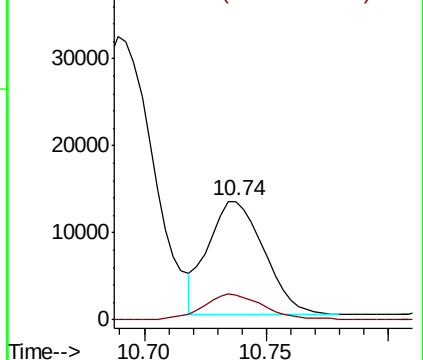
43 100

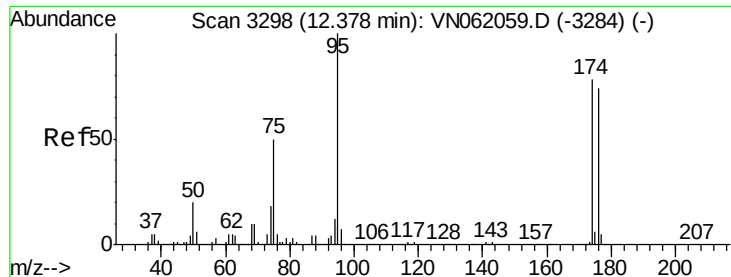
58 24.7 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

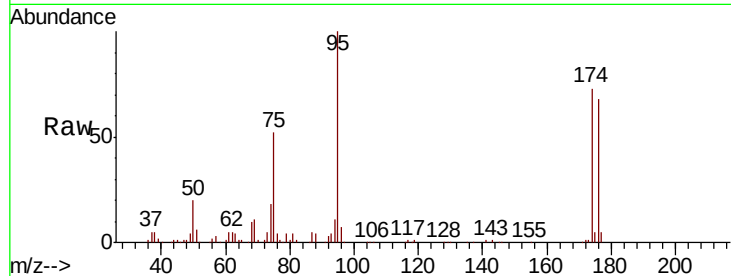




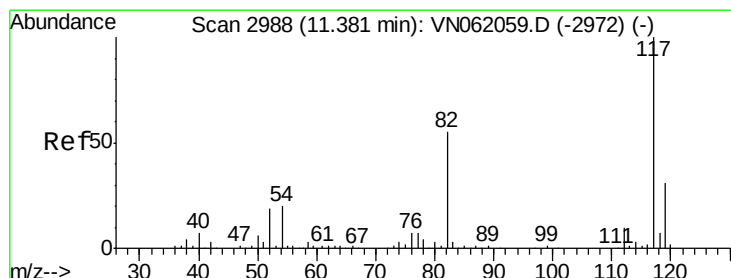
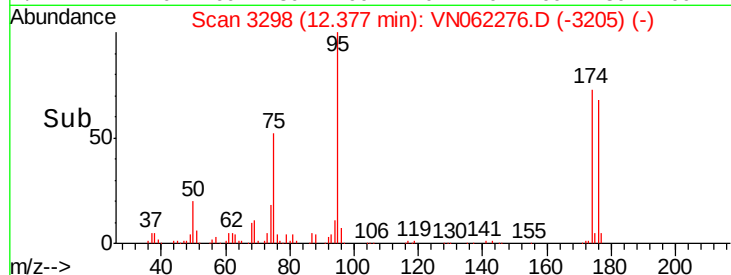
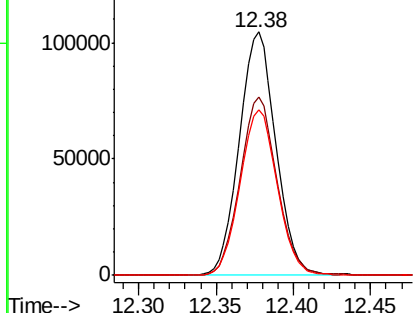
#62
4-Bromofluorobenzene
Concen: 47.313 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Instrument :
MSVOA_N
ClientSampled :
SP2-G

Tot Ion: 95 Resp: 172504
Ion Ratio Lower Upper
95 100
174 73.9 0.0 154.8
176 69.4 0.0 147.4

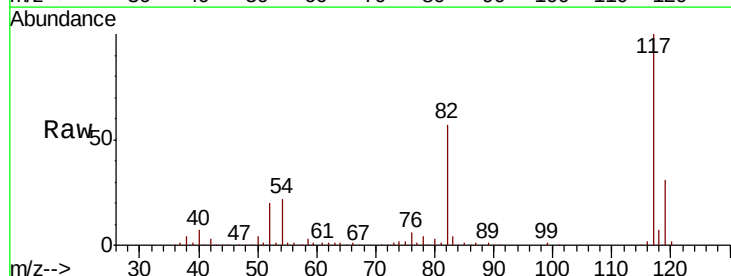


Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)
Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)
Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)

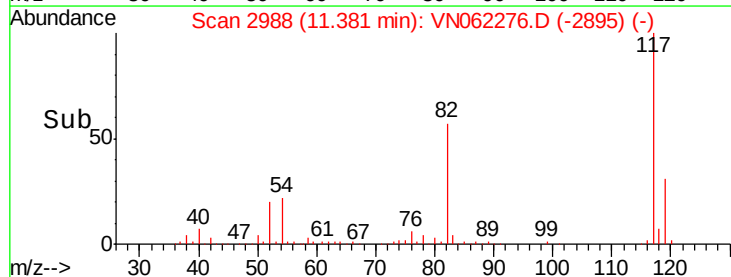
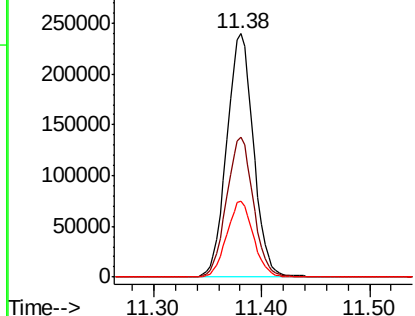


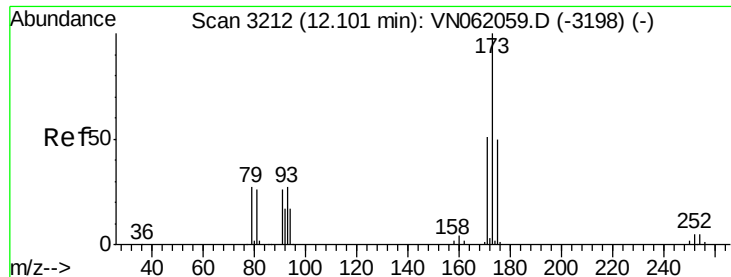
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion: 117 Resp: 414023
Ion Ratio Lower Upper
117 100
82 57.4 43.8 65.8
119 31.2 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062059.D (-2972) (-)
Ion 82.00 (81.70 to 82.70): VN062059.D (-2972) (-)
Ion 118.90 (118.60 to 119.60): VN062059.D (-2972) (-)





#71

Bromoform

Concen: 0.412 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampleId :

SP2-G

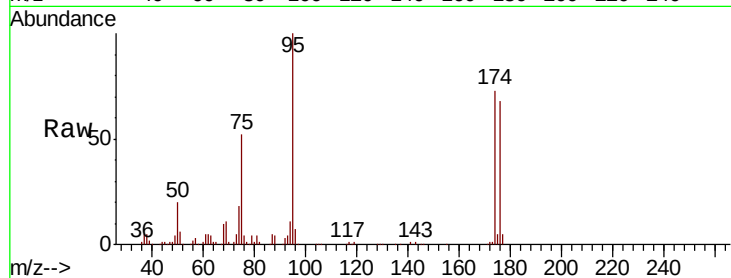
Tot Ion:173 Resp: 920

Ion Ratio Lower Upper

173 100

175 828.6 24.7 74.1#

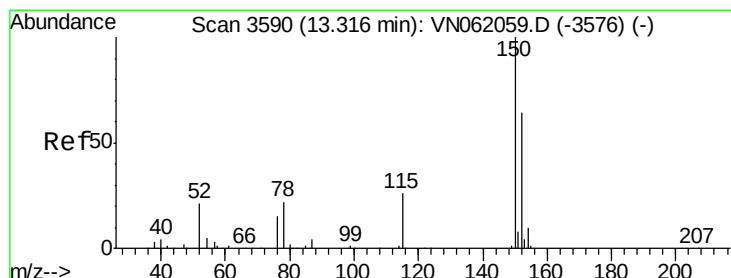
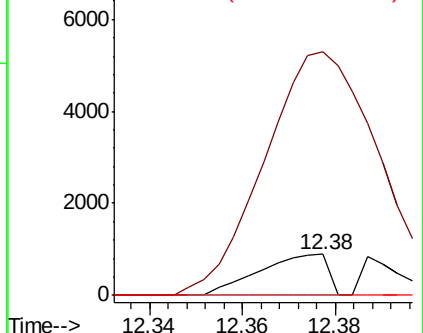
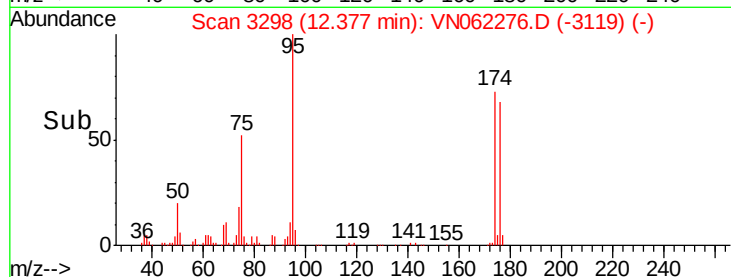
254 0.0 0.0 0.0



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: VN062276.D

Acq: 1 Jul 2020 7:08

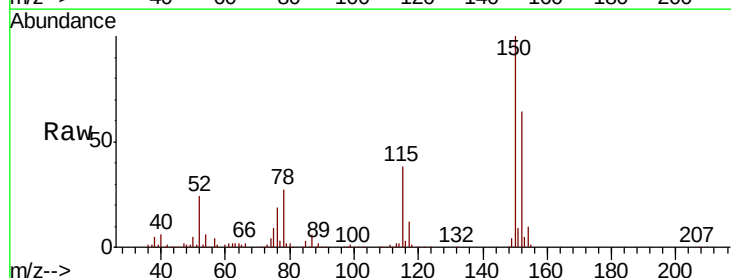
Tgt Ion:152 Resp: 147277

Ion Ratio Lower Upper

152 100

115 59.7 29.5 88.5

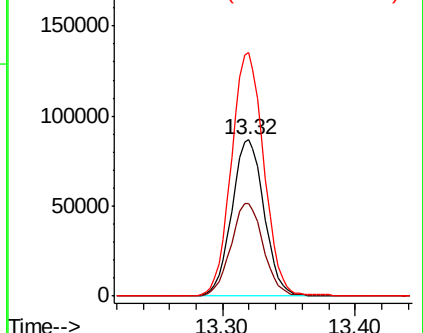
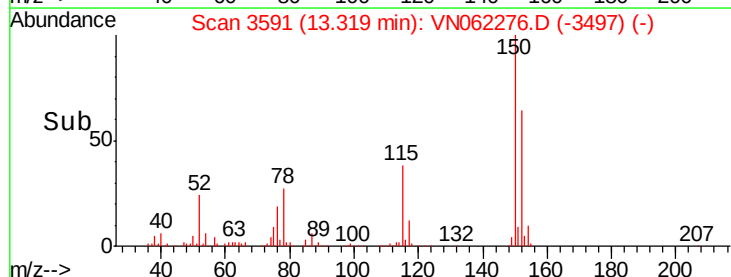
150 156.5 0.0 351.4

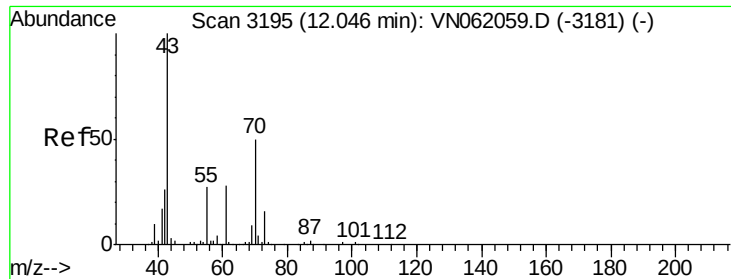


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

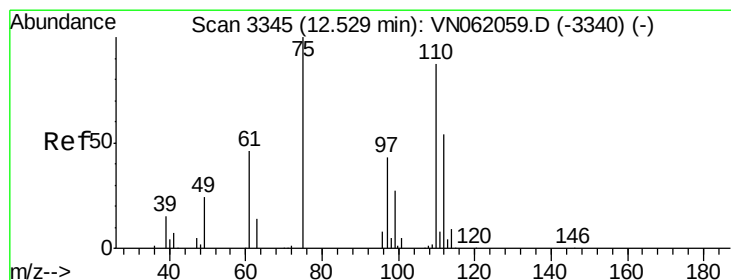
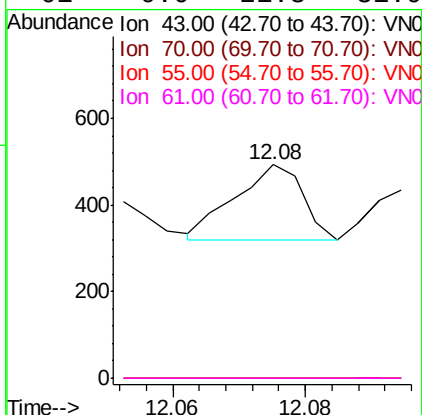
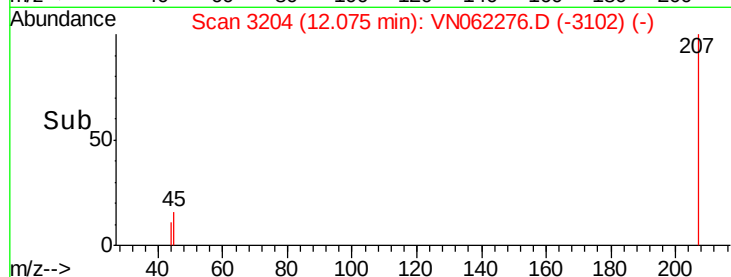
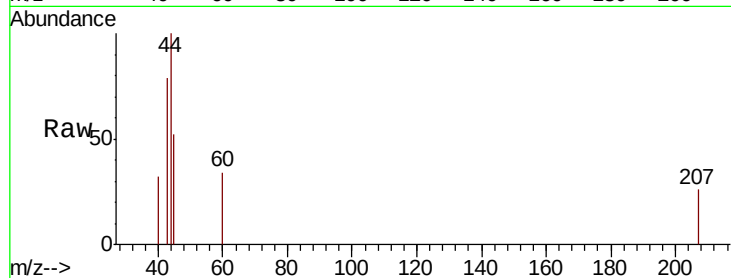




#74
N-amvl acetate
Concen: 3.371 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.03 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

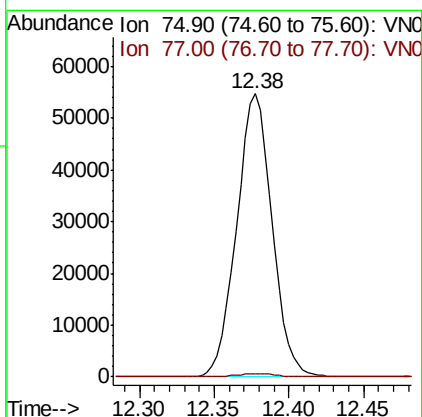
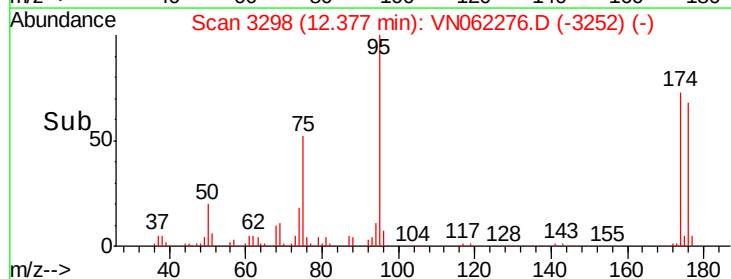
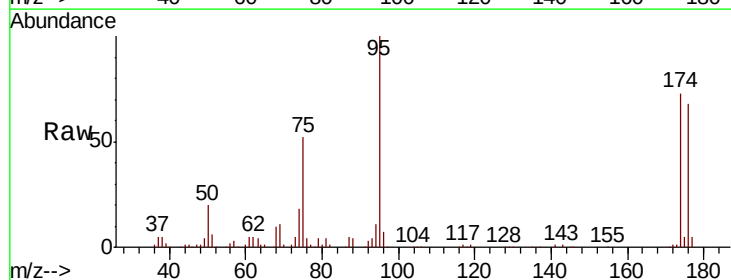
Instrument :
MSVOA_N
ClientSampleId :
SP2-G

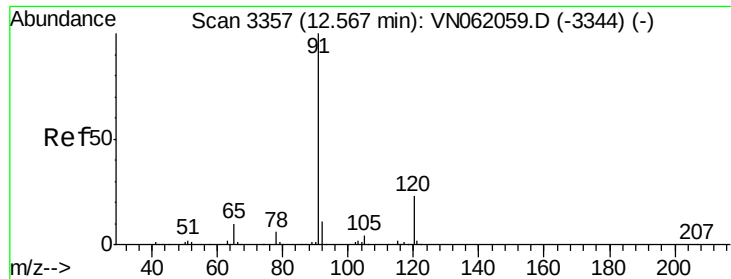
Tot Ion: 43 Resp: 124
Ion Ratio Lower Upper
43 100
70 0.0 39.4 59.2#
55 0.0 21.7 32.5#
61 0.0 21.3 31.9#



#76
1,2,3-Trichloropropane
Concen: 26.049 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062276.D
Acq: 1 Jul 2020 7:08

Tgt Ion: 75 Resp: 90311
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#78

n-propylbenzene

Concen: 0.211 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.08 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

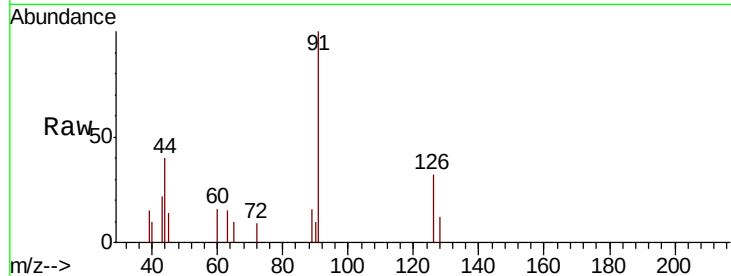
SP2-G

Tot Ion: 91 Resp: 2755

Ion Ratio Lower Upper

91 100

120 0.0 11.4 34.1#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.65

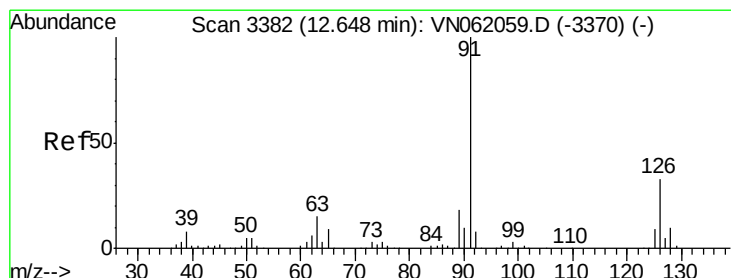
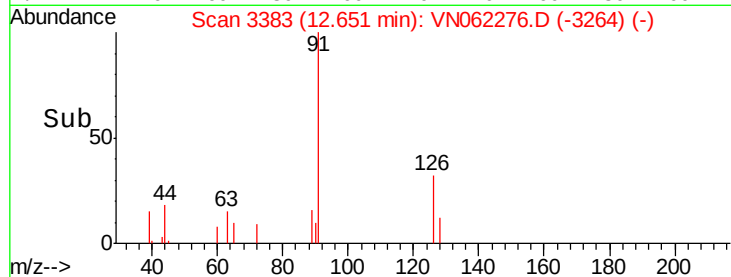
1500

1000

500

0

Time-->



#79

2-Chlorotoluene

Concen: 0.349 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.00 min

Lab File: VN062276.D

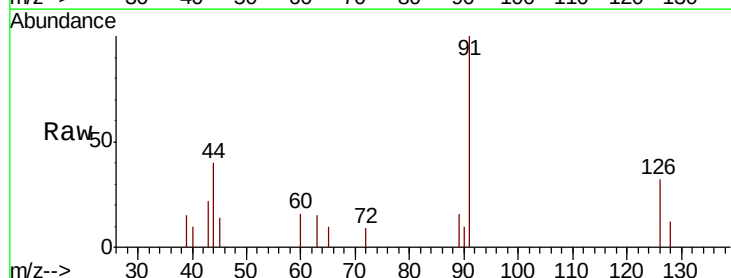
Acq: 1 Jul 2020 7:08

Tgt Ion: 91 Resp: 2755

Ion Ratio Lower Upper

91 100

126 27.8 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.65

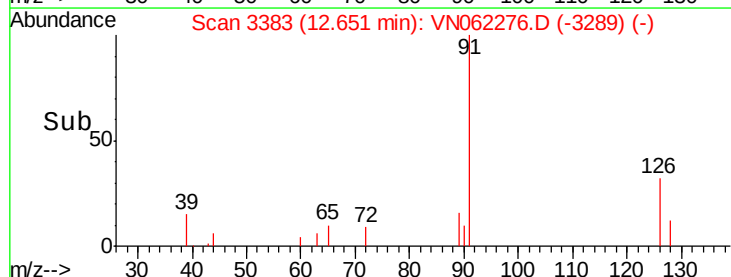
1500

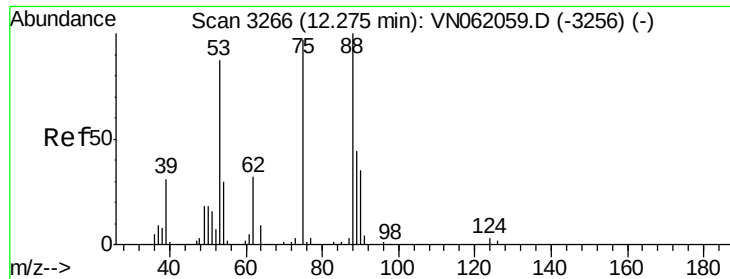
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 76.072 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062276.D

Acq: 1 Jul 2020 7:08

Instrument :

MSVOA_N

ClientSampled :

SP2-G

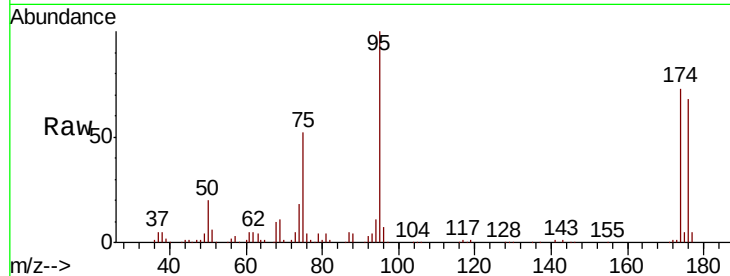
Tot Ion: 75 Resp: 90311

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

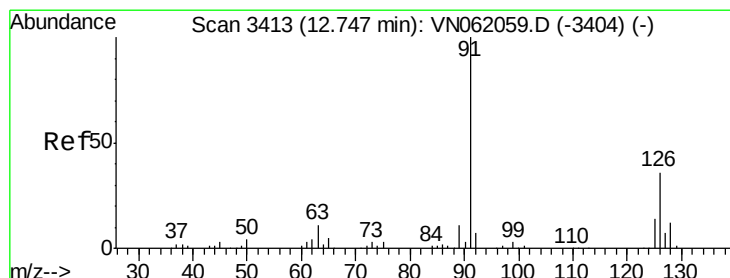
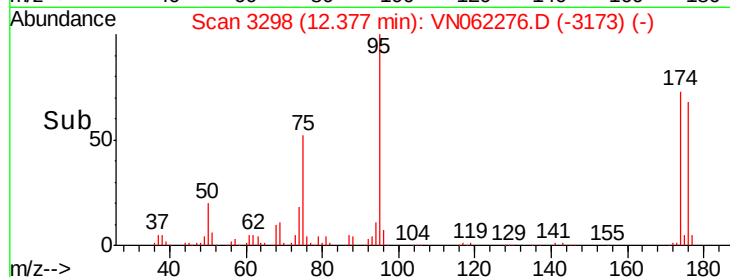
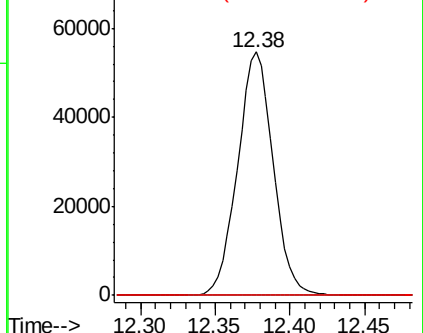
89 0.0 36.9 55.3#



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



#82

4-Chlorotoluene

Concen: 0.367 ug/l

RT: 12.75 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VN062276.D

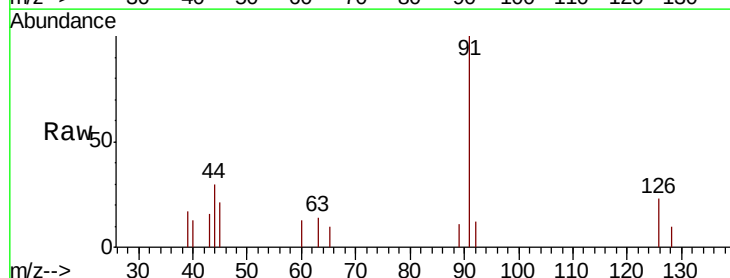
Acq: 1 Jul 2020 7:08

Tgt Ion: 91 Resp: 2991

Ion Ratio Lower Upper

91 100

126 30.0 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

