

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062330.D
 Acq On : 2 Jul 2020 8:22
 Operator : JC/MD
 Sample : L2814-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-063020

Quant Time: Jul 02 08:48:36 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	189572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	416584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	414935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140986	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	162955	61.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.50%	
35) Dibromofluoromethane	7.55	113	128738	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	10.06	98	545206	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.38	95	174128	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	

Target Compounds

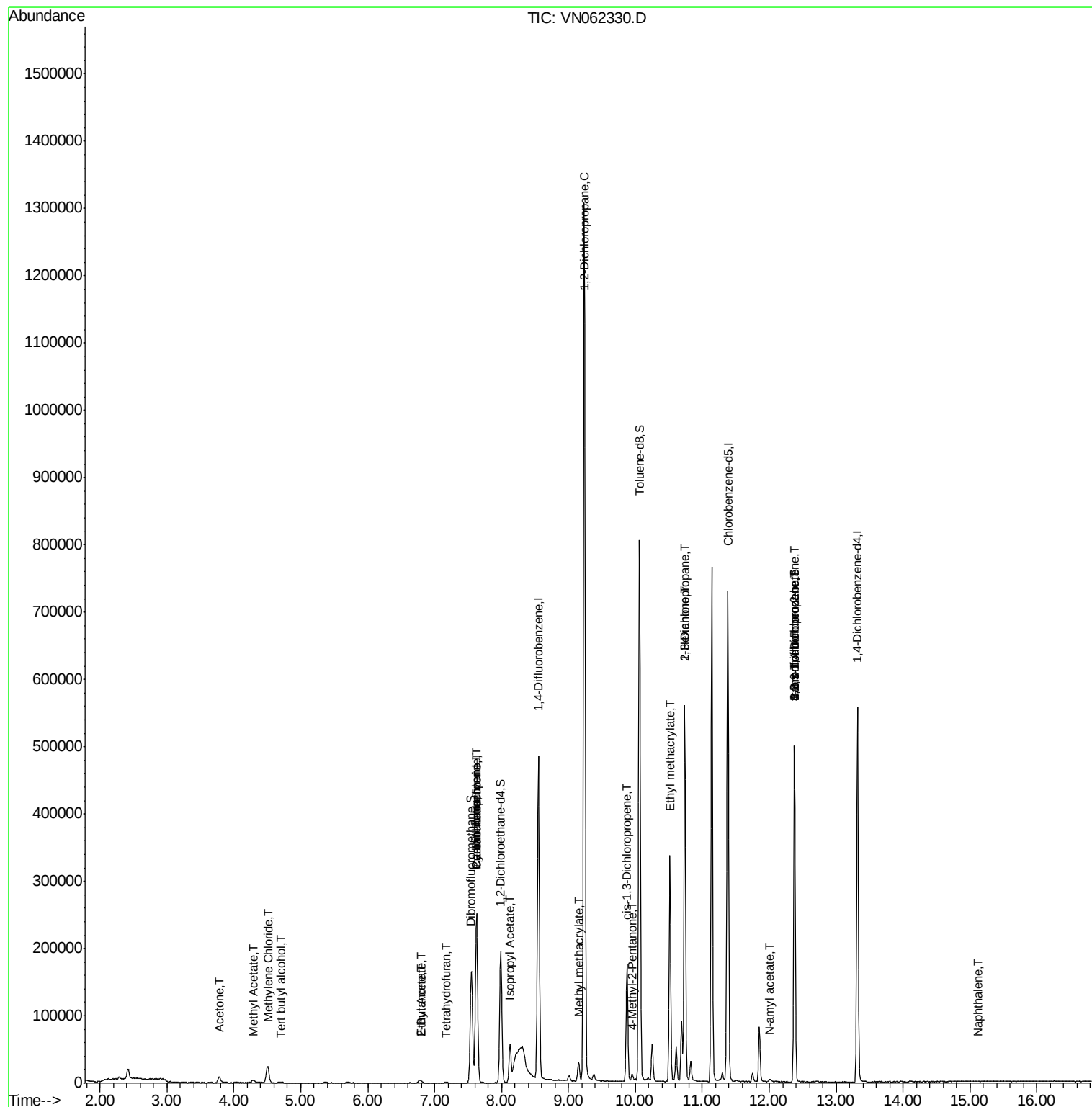
						Qvalue
3) Chloromethane	2.04	50	277	Below Cal	#	41
11) Tert butyl alcohol	4.69	59	506	1.325	ug/l #	72
16) Acetone	3.78	43	14633	13.695	ug/l	96
18) Methyl Acetate	4.28	43	7712	3.647	ug/l #	68
20) Methylene Chloride	4.50	84	18438	7.365	ug/l	94
25) 2-Butanone	6.80	43	2755	2.119	ug/l	100
29) Tetrahydrofuran	7.16	42	244	0.286	ug/l #	36
31) Cyclohexane	7.62	56	4927	1.340	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	17506	4.181	ug/l #	49
37) Ethyl Acetate	6.80	43	2755	0.795	ug/l #	66
38) Carbon Tetrachloride	7.63	117	21031	5.327	ug/l #	16
43) Isopropyl Acetate	8.13	43	64967	11.494	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1658	0.527	ug/l #	43
48) Methyl methacrylate	9.15	41	3897	1.538	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	5809	1.759	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	31045	6.149	ug/l #	72
56) Ethyl methacrylate	10.52	69	1757	0.430	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5927	1.125	ug/l #	42
59) 2-Hexanone	10.74	43	73628	30.876	ug/l #	49
71) Bromoform	12.38	173	1706	0.762	ug/l #	1
74) N-amyl acetate	12.00	43	2173	3.848	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	88985	26.811	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	88985	78.299	ug/l #	13
95) Naphthalene	15.11	128	978	4.129	ug/l #	69

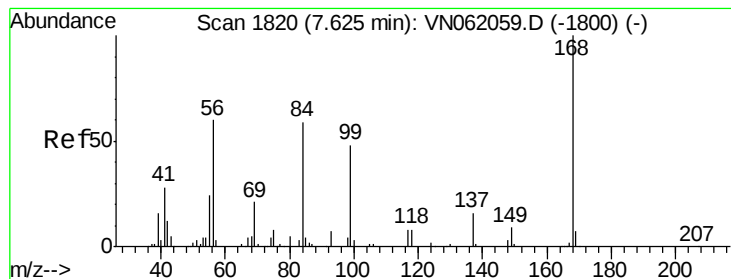
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

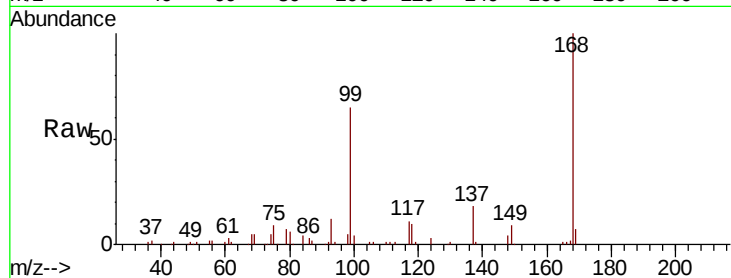
PL-02-063020

Tot Ion:168 Resp: 189572

Ion Ratio Lower Upper

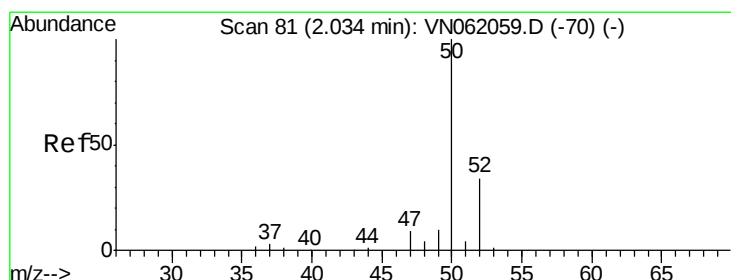
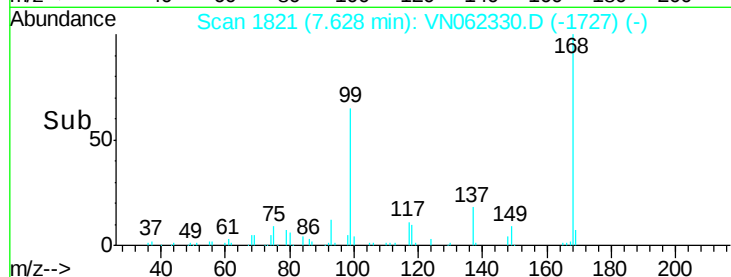
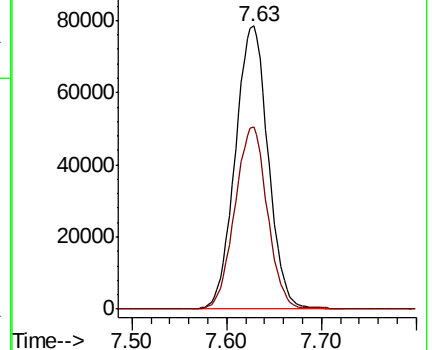
168 100

99 64.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062330.D

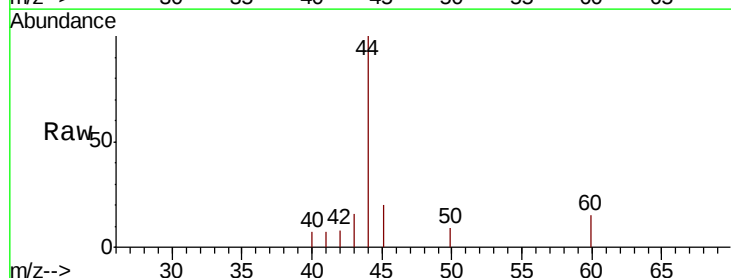
Acq: 2 Jul 2020 8:22

Tgt Ion: 50 Resp: 277

Ion Ratio Lower Upper

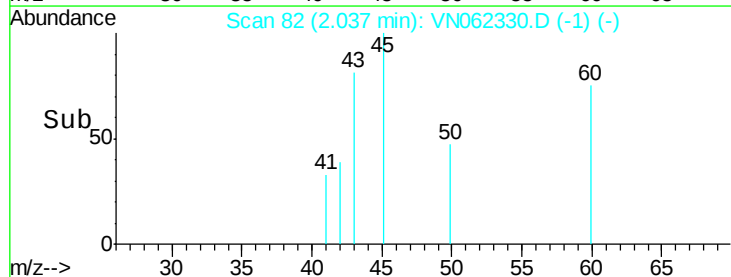
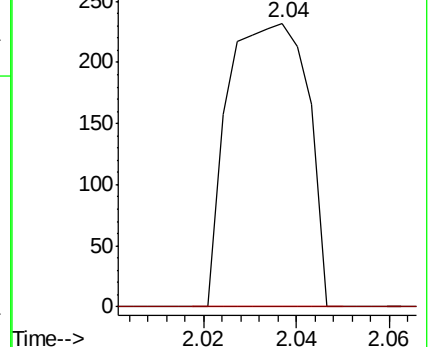
50 100

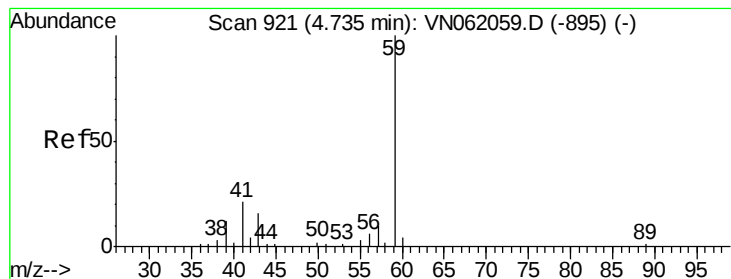
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#11

Tert butyl alcohol

Concen: 1.325 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.04 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

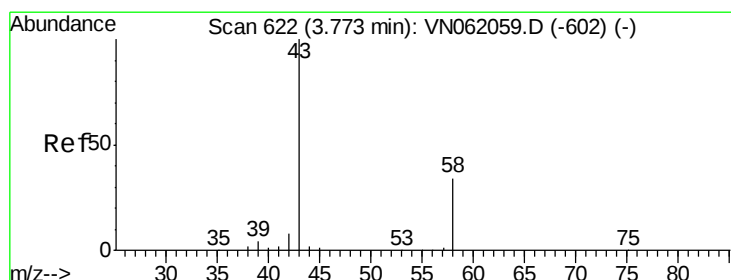
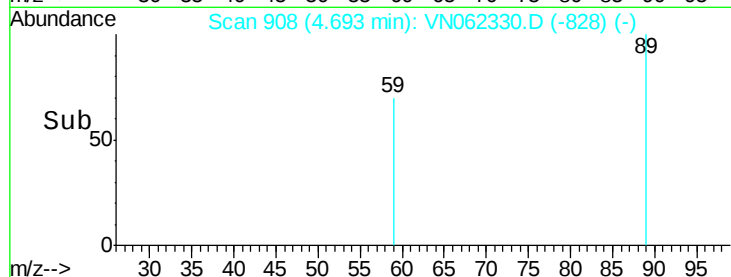
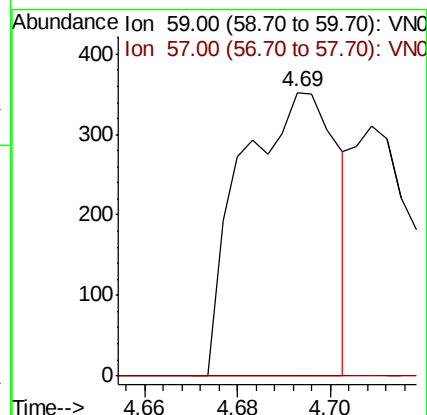
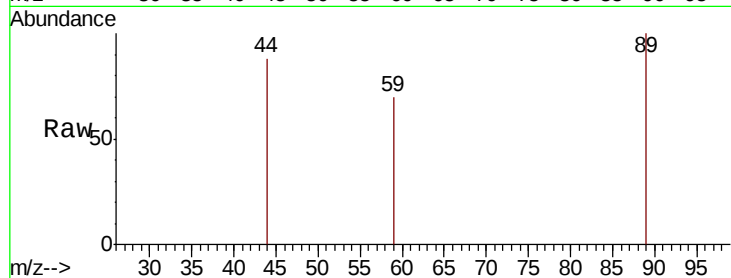
PL-02-063020

Tot Ion: 59 Resp: 506

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 13.695 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062330.D

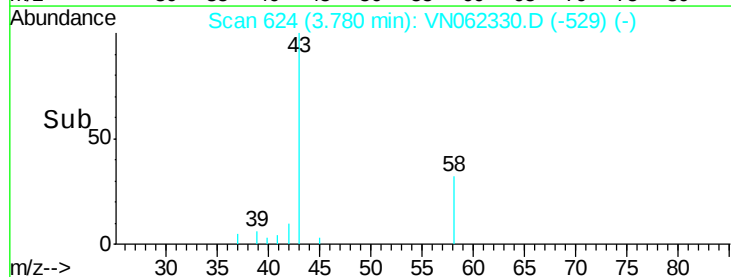
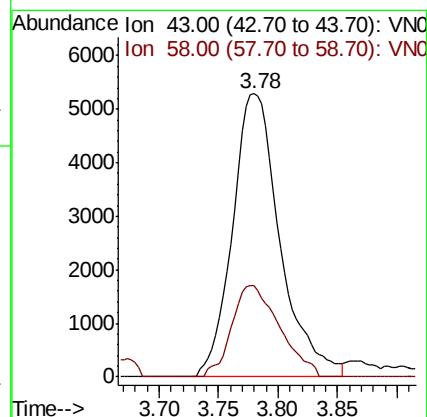
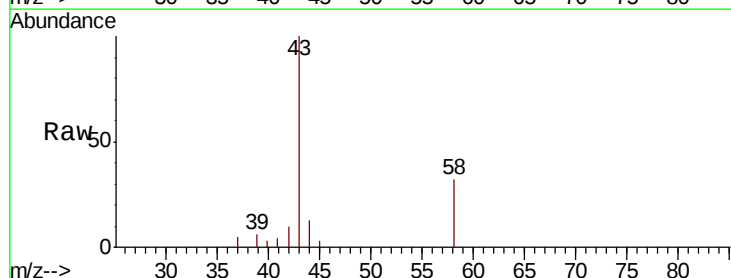
Acq: 2 Jul 2020 8:22

Tgt Ion: 43 Resp: 14633

Ion Ratio Lower Upper

43 100

58 32.3 27.5 41.3

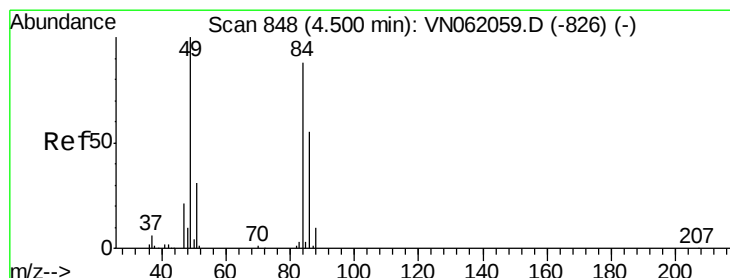
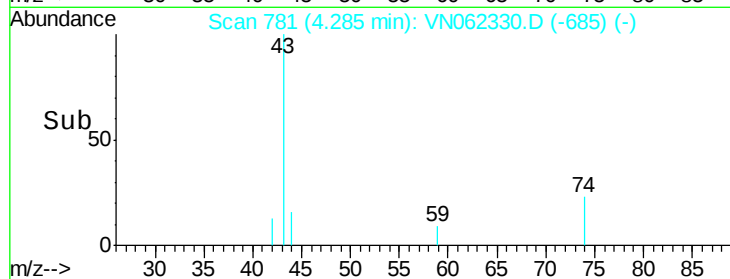
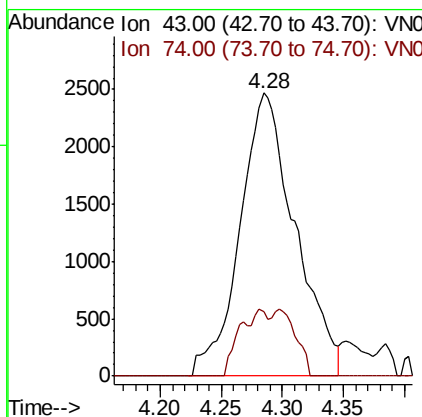
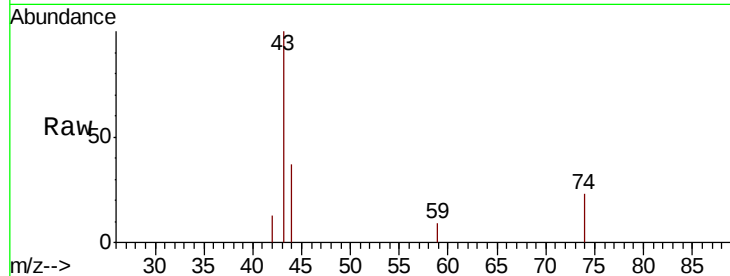




#18
Methyl Acetate
Concen: 3.647 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

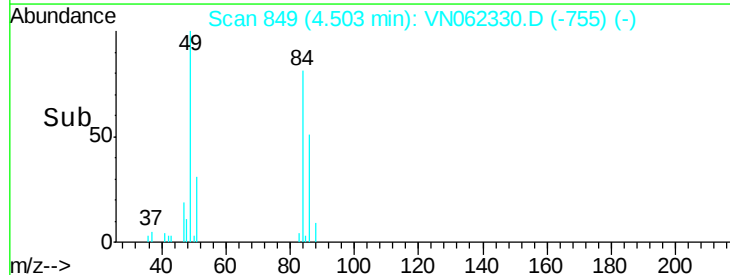
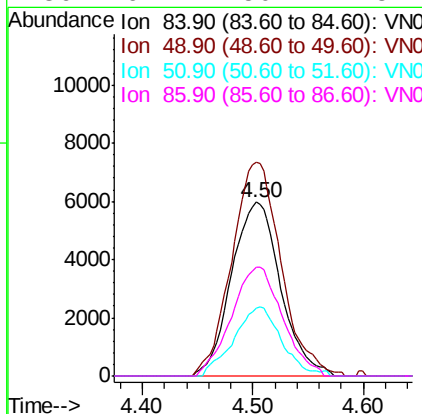
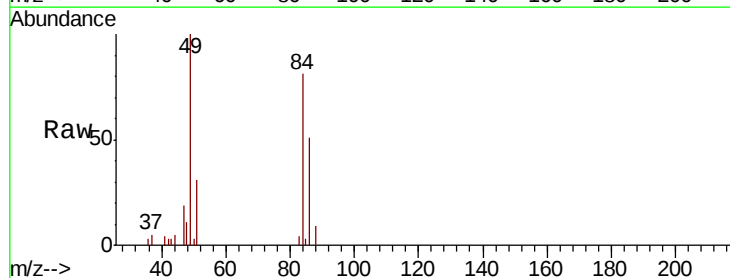
Instrument :
MSVOA_N
ClientSampled :
PL-02-063020

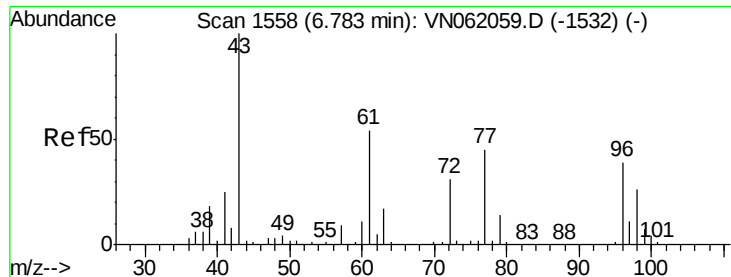
Tot Ion: 43 Resp: 7712
Ion Ratio Lower Upper
43 100
74 11.8 22.9 34.3#



#20
Methylene Chloride
Concen: 7.365 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Tgt Ion: 84 Resp: 18438
Ion Ratio Lower Upper
84 100
49 123.1 90.6 136.0
51 38.8 27.8 41.8
86 62.4 50.1 75.1

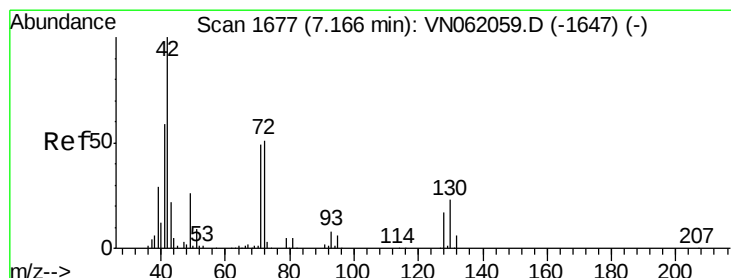
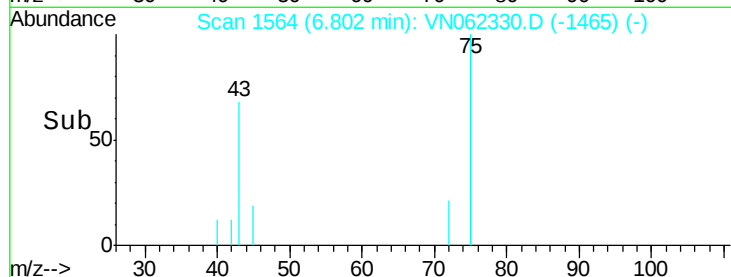
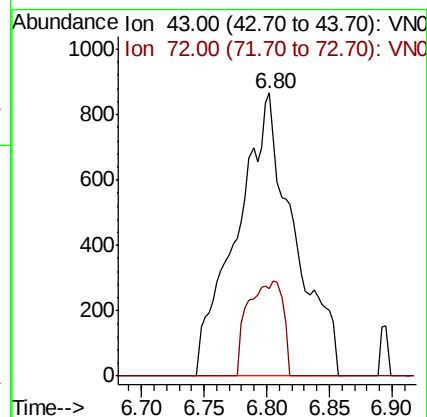
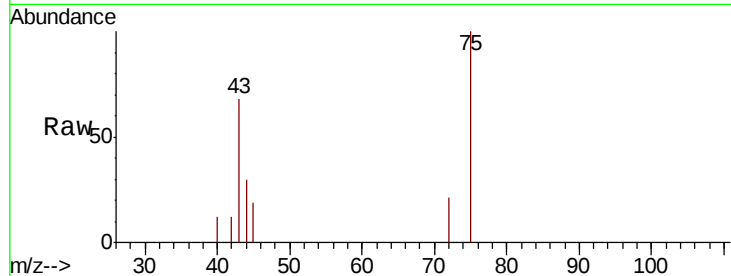




#25
2-Butanone
Concen: 2.119 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

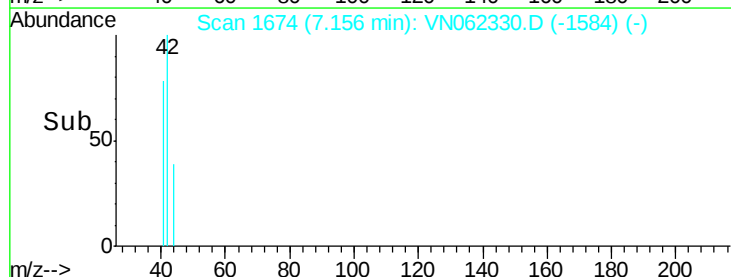
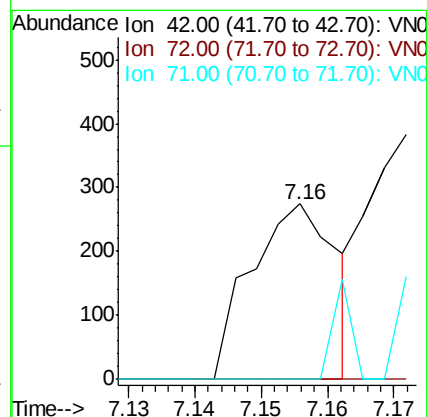
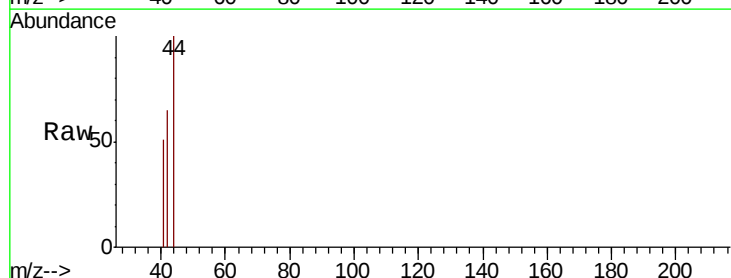
Instrument :
MSVOA_N
ClientSampleId :
PL-02-063020

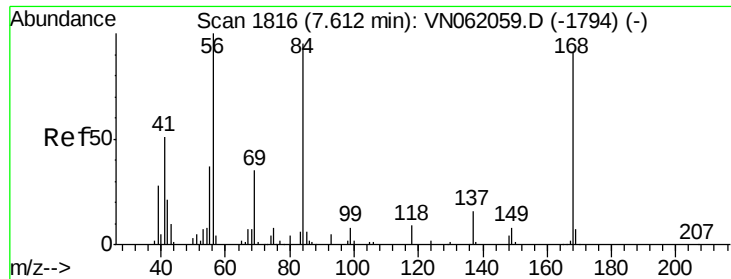
Tot Ion: 43 Resp: 2755
Ion Ratio Lower Upper
43 100
72 30.8 24.8 37.2



#29
Tetrahydrofuran
Concen: 0.286 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Tgt Ion: 42 Resp: 244
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 12.3 38.2 57.4#

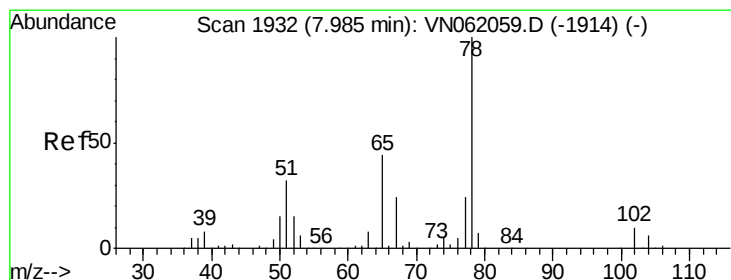
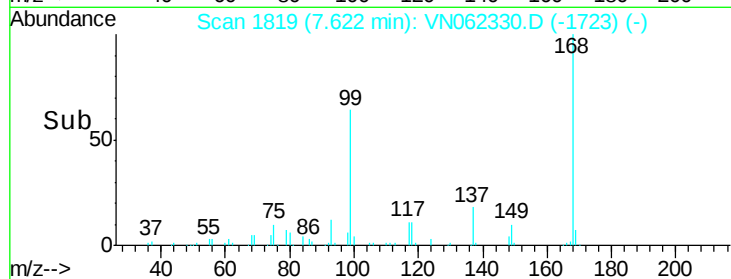
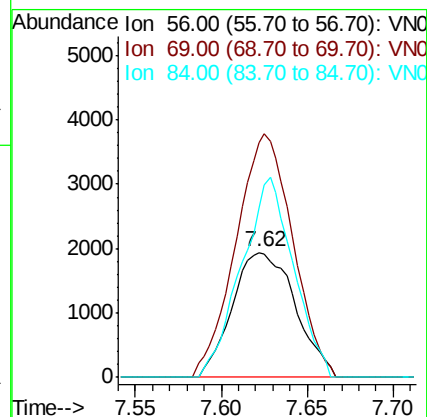
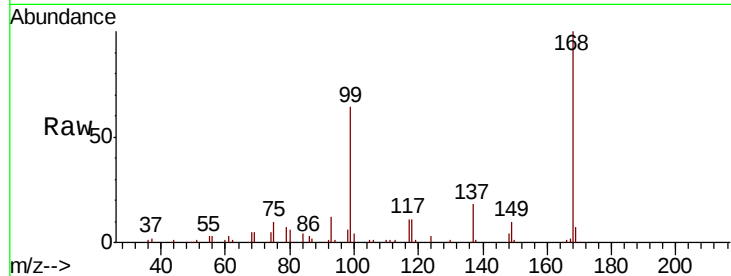




#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

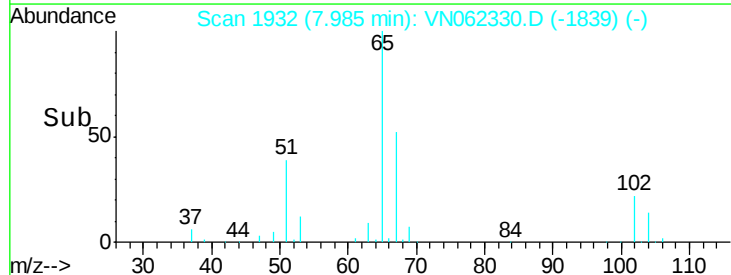
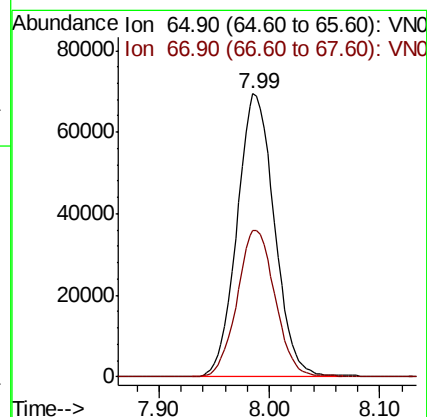
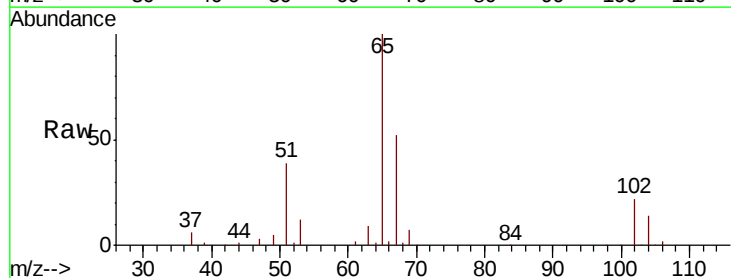
Instrument :
MSVOA_N
ClientSampleId :
PL-02-063020

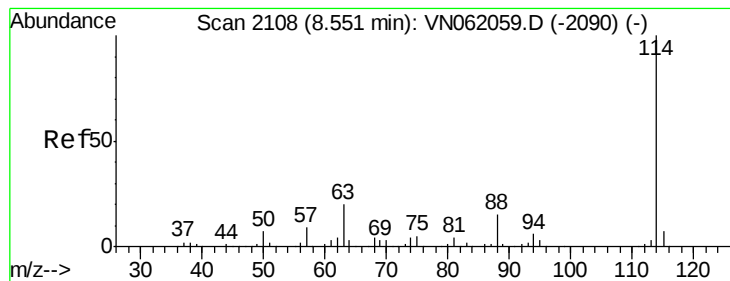
Tot Ion: 56 Resp: 4927
Ion Ratio Lower Upper
56 100
69 188.4 28.0 42.0#
84 135.5 76.1 114.1#



#33
1,2-Dichloroethane-d4
Concen: 61.254 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Tgt Ion: 65 Resp: 162955
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

PL-02-063020

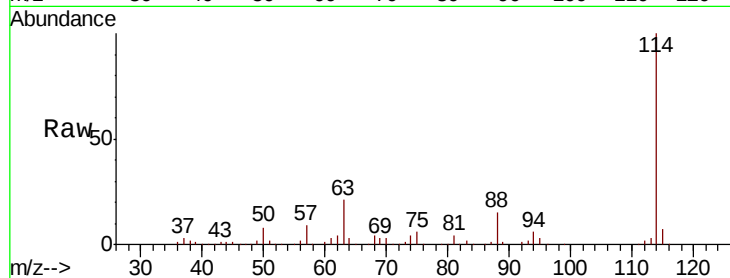
Tot Ion:114 Resp: 416584

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.2

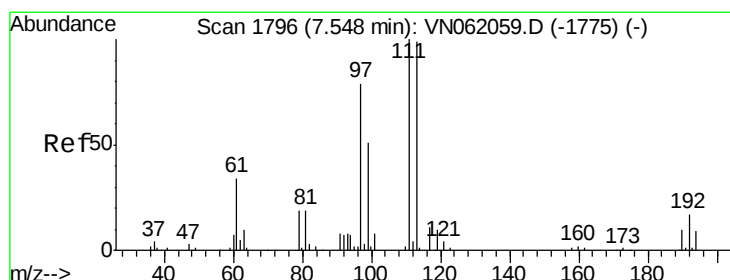
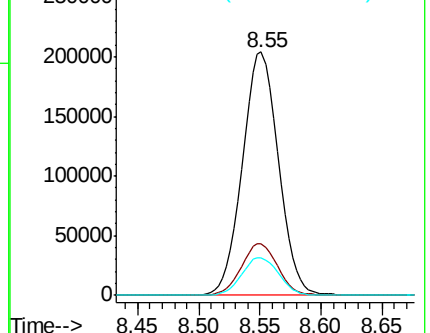
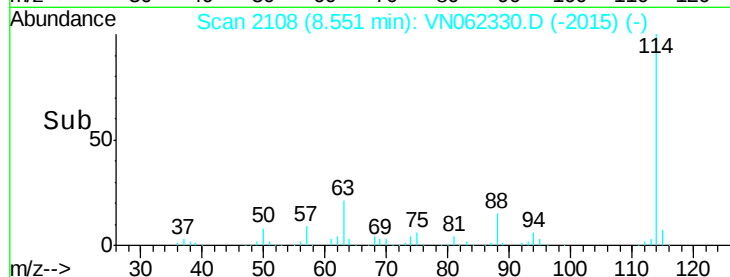
88 15.4 0.0 30.8



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: 48.170 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

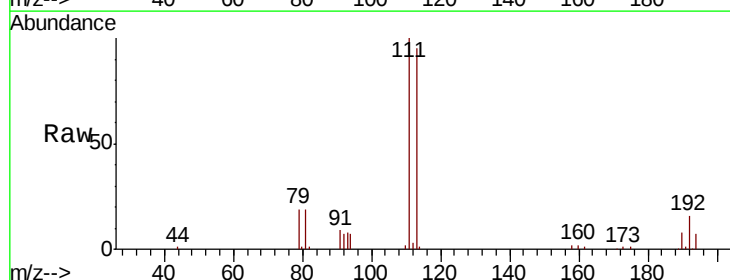
Tgt Ion:113 Resp: 128738

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

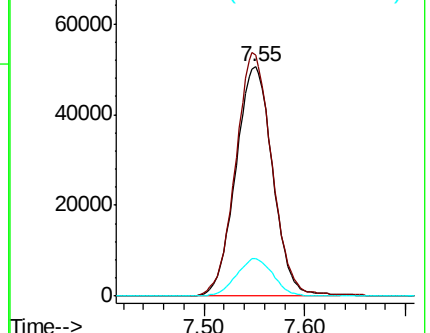
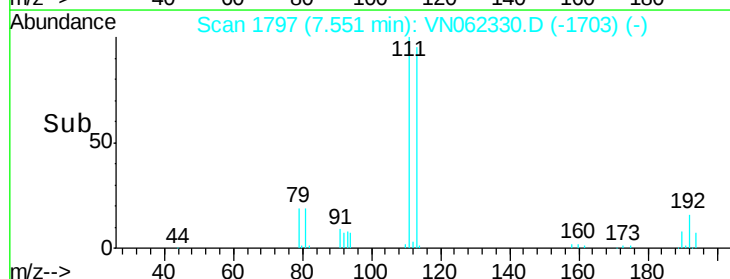
192 16.1 14.0 21.0

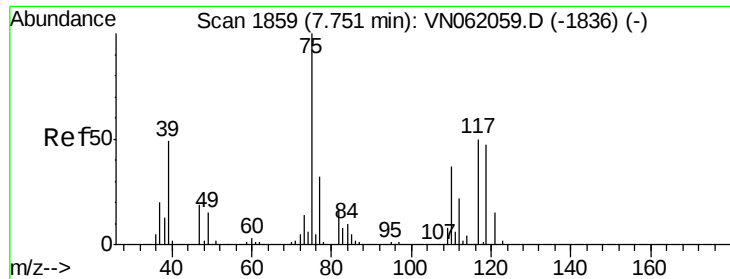


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.181 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

PL-02-063020

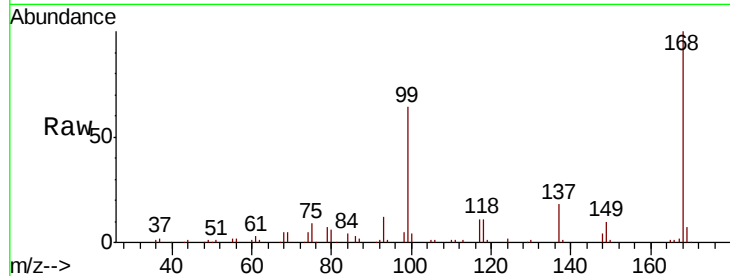
Tot Ion: 75 Resp: 17506

Ion Ratio Lower Upper

75 100

110 8.3 17.9 53.8#

77 0.0 24.9 37.3#

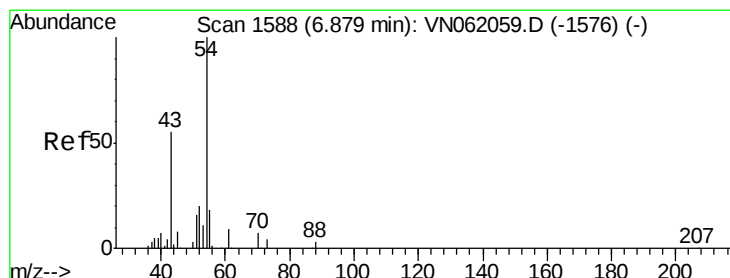
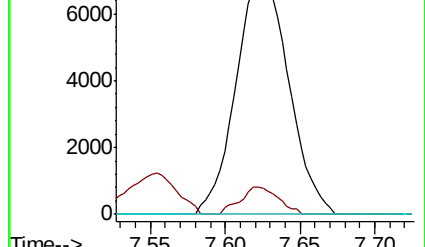
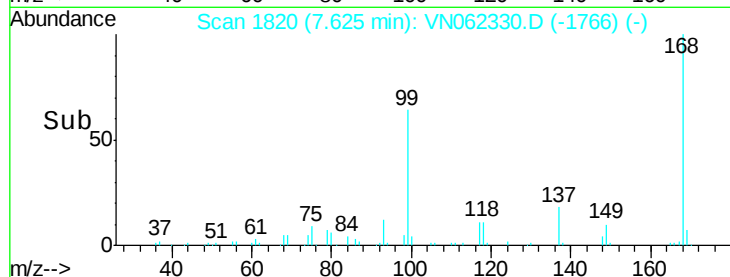


Abundance Ion 74.90 (74.60 to 75.60): VN062330.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062330.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062330.D (-1766) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.795 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.08 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

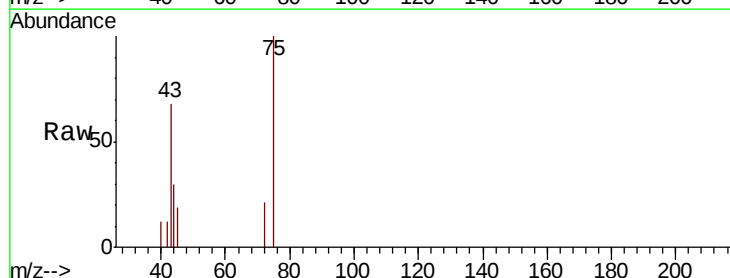
Tgt Ion: 43 Resp: 2755

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 9.6 14.4#

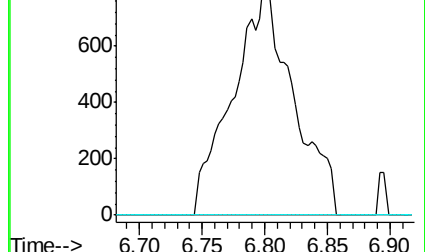
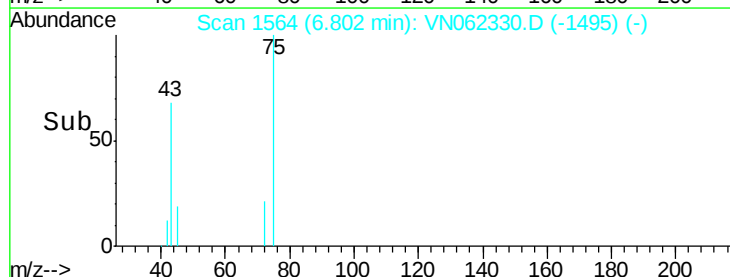


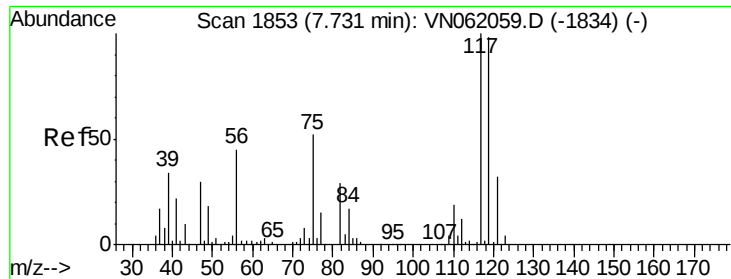
Abundance Ion 43.00 (42.70 to 43.70): VN062330.D (-1495) (-)

Ion 60.90 (60.60 to 61.60): VN062330.D (-1495) (-)

Ion 70.00 (69.70 to 70.70): VN062330.D (-1495) (-)

Time-->

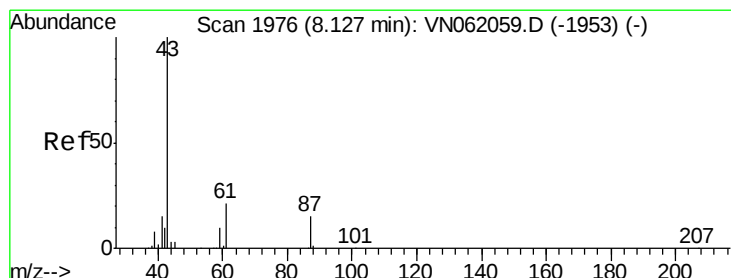
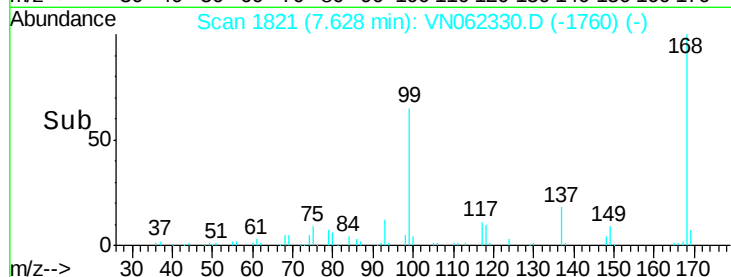
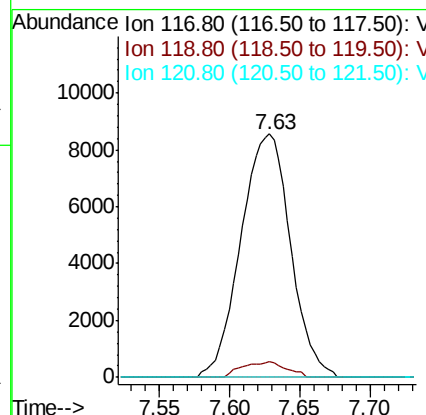
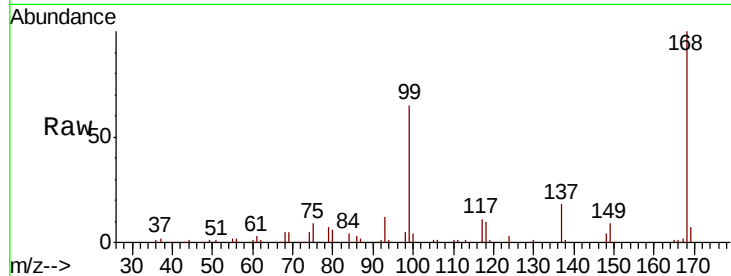




#38
Carbon Tetrachloride
Concen: 5.327 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

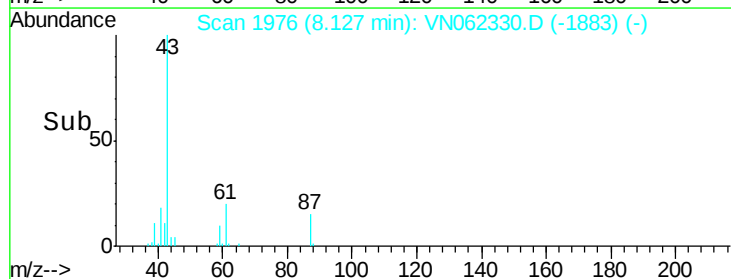
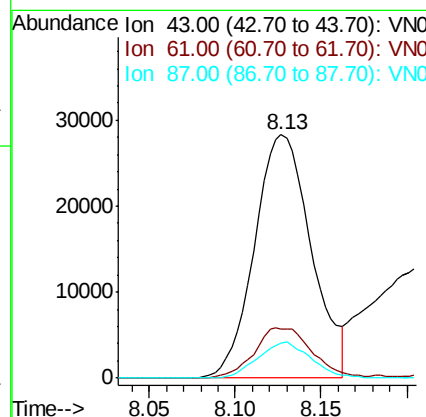
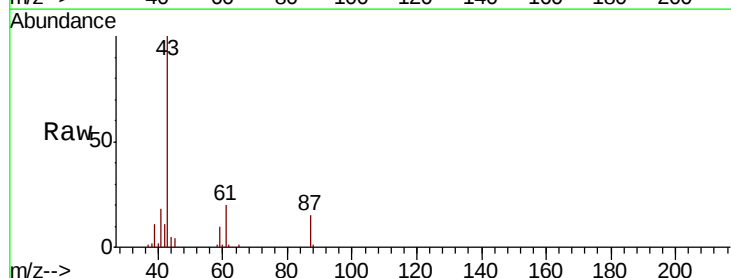
Instrument :
MSVOA_N
ClientSampleId :
PL-02-063020

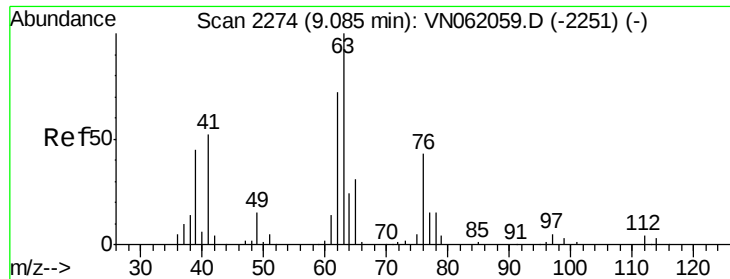
Tot Ion:117 Resp: 21031
Ion Ratio Lower Upper
117 100
119 6.6 78.2 117.2#
121 0.0 25.8 38.6#



#43
Isopropyl Acetate
Concen: 11.494 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Tgt Ion: 43 Resp: 64967
Ion Ratio Lower Upper
43 100
61 21.0 17.2 25.8
87 13.8 12.1 18.1

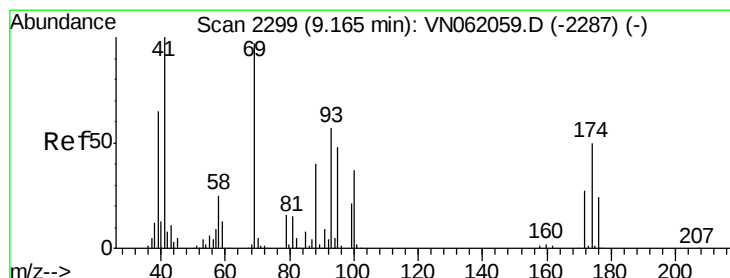
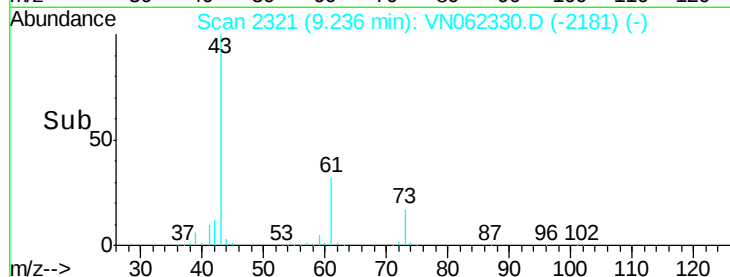
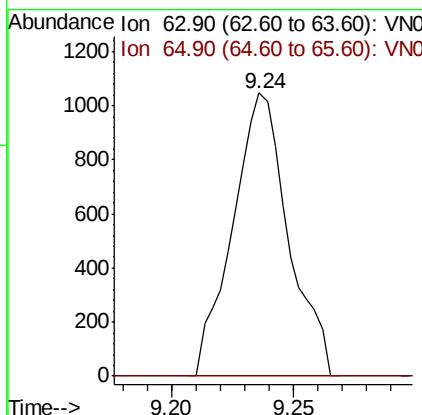
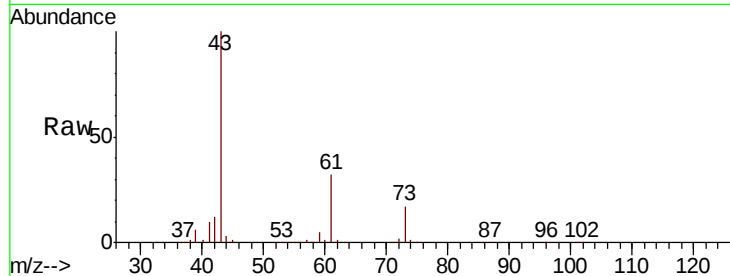




#45
 1,2-Dichloropropane
 Concen: 0.527 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062330.D
 Acq: 2 Jul 2020 8:22

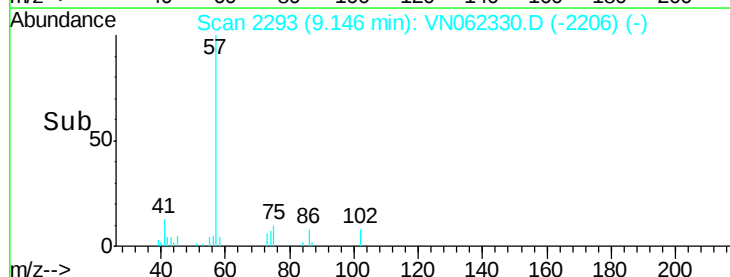
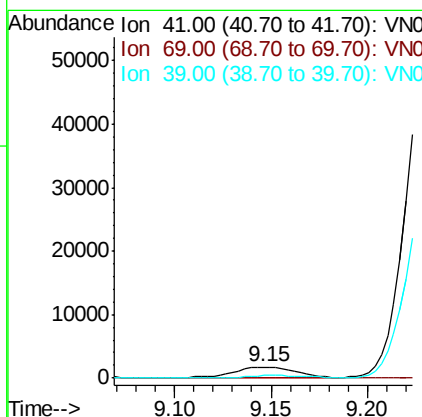
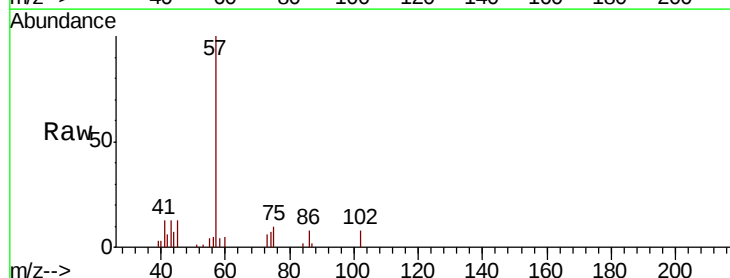
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-063020

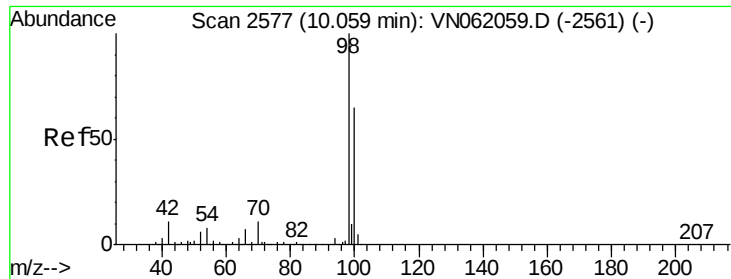
Tot Ion: 63 Resp: 1658
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.538 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062330.D
 Acq: 2 Jul 2020 8:22

Tgt Ion: 41 Resp: 3897
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#





#50

Toluene-d8

Concen: 51.034 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampled :

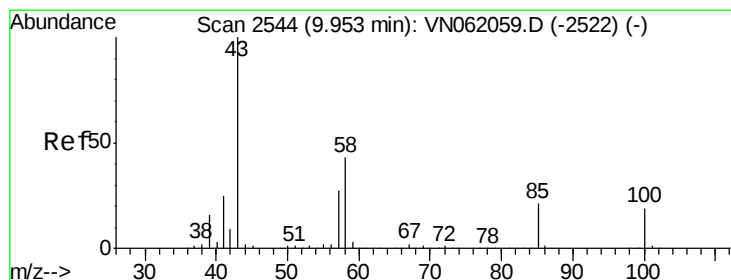
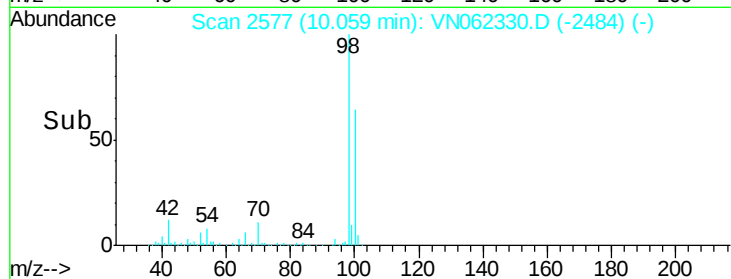
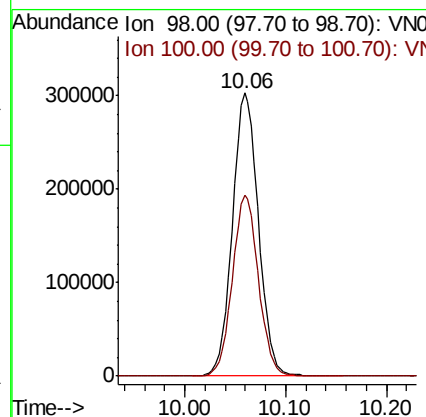
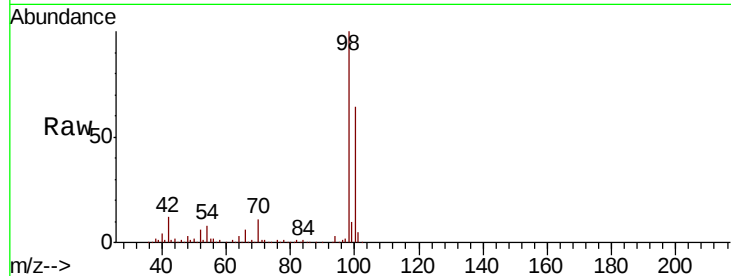
PL-02-063020

Tot Ion: 98 Resp: 545206

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.759 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062330.D

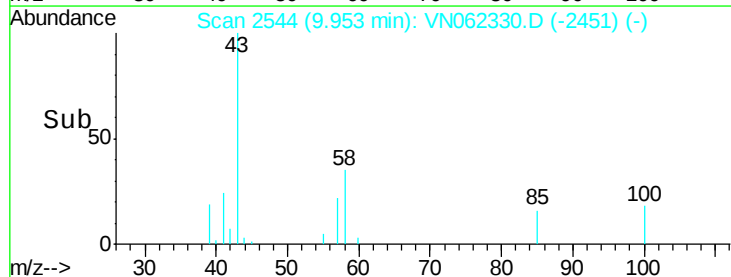
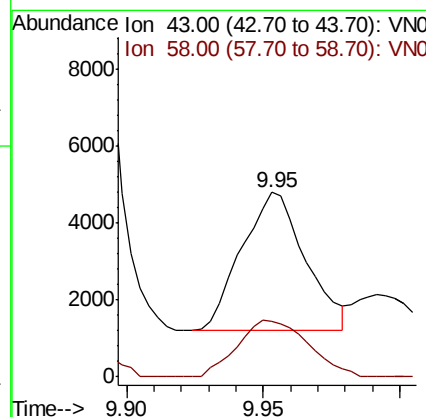
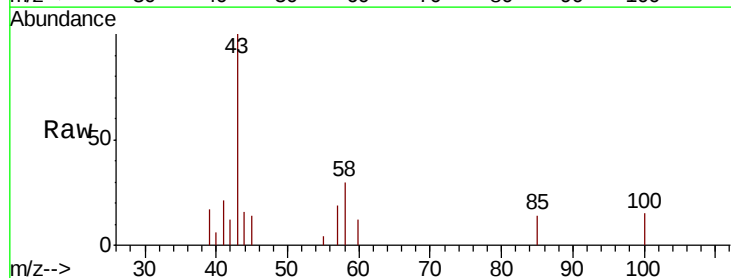
Acq: 2 Jul 2020 8:22

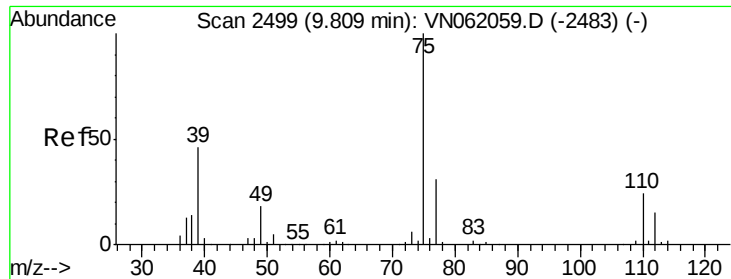
Tgt Ion: 43 Resp: 5809

Ion Ratio Lower Upper

43 100

58 45.7 34.2 51.2

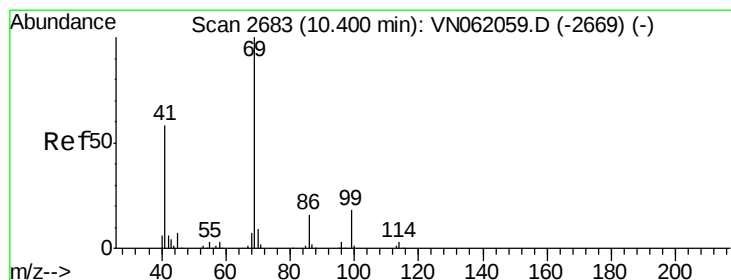
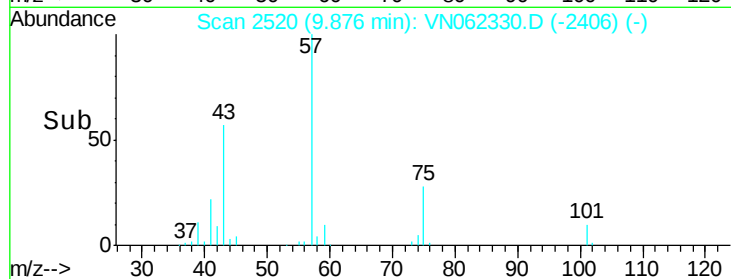
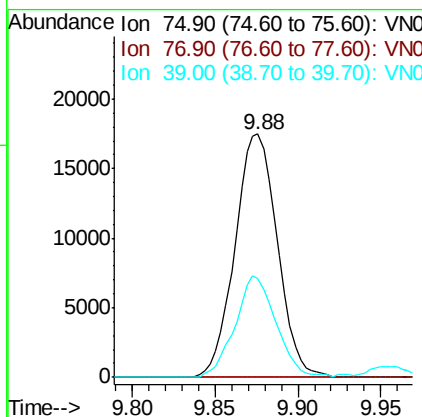
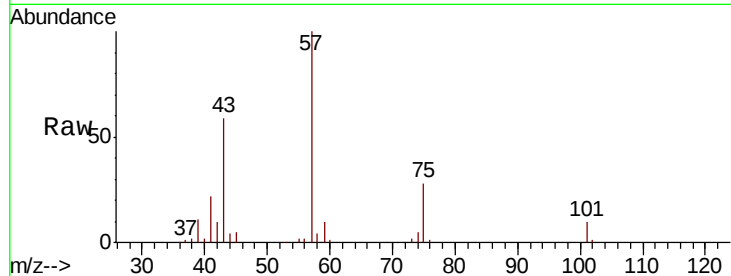




#54
 cis-1,3-Dichloropropene
 Concen: 6.149 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062330.D
 Acq: 2 Jul 2020 8:22

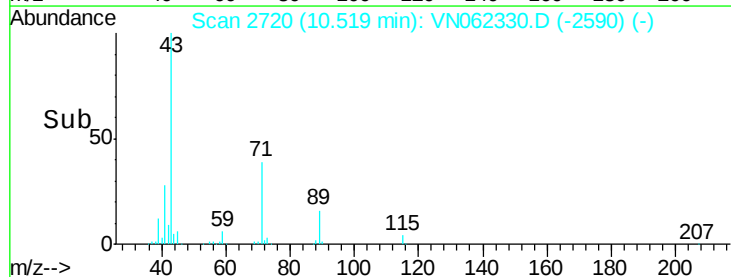
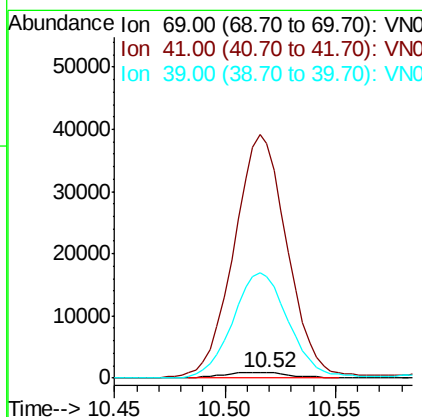
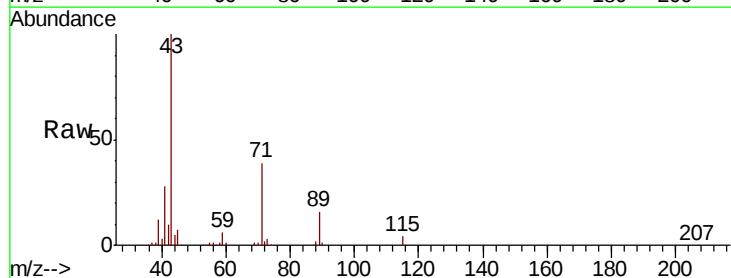
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-063020

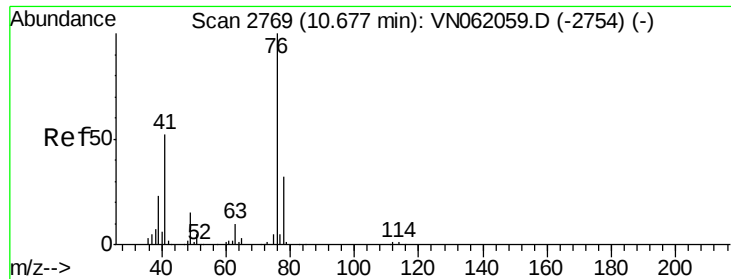
Tot Ion: 75 Resp: 31045
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 40.6 36.9 55.3



#56
 Ethyl methacrylate
 Concen: 0.430 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062330.D
 Acq: 2 Jul 2020 8:22

Tgt Ion: 69 Resp: 1757
 Ion Ratio Lower Upper
 69 100
 41 3760.2 46.6 70.0#
 39 1702.4 31.0 46.4#





#57

1,3-Dichloropropane

Concen: 1.125 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

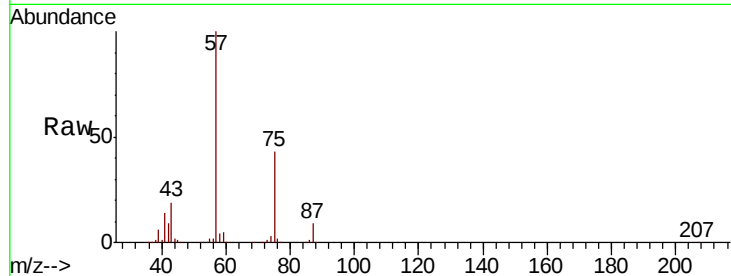
PL-02-063020

Tot Ion: 76 Resp: 5927

Ion Ratio Lower Upper

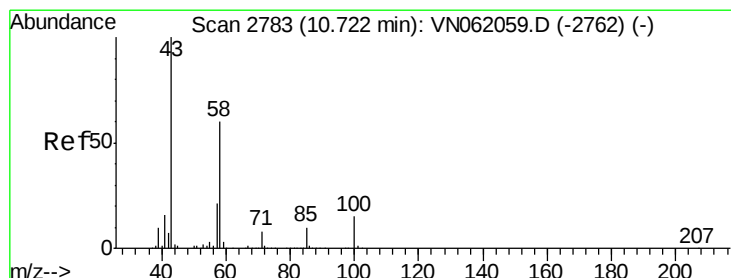
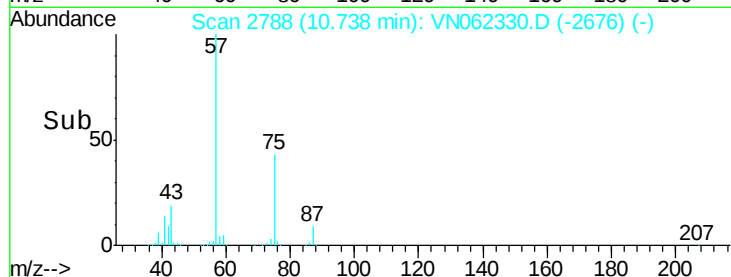
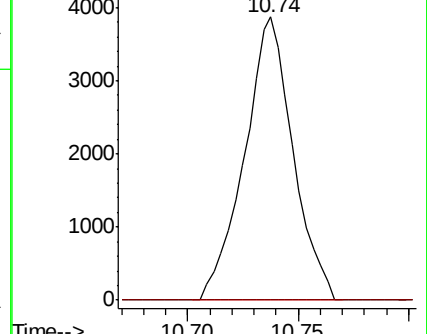
76 100

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: 30.876 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062330.D

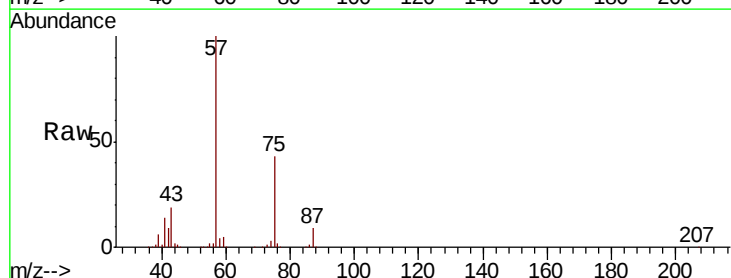
Acq: 2 Jul 2020 8:22

Tgt Ion: 43 Resp: 73628

Ion Ratio Lower Upper

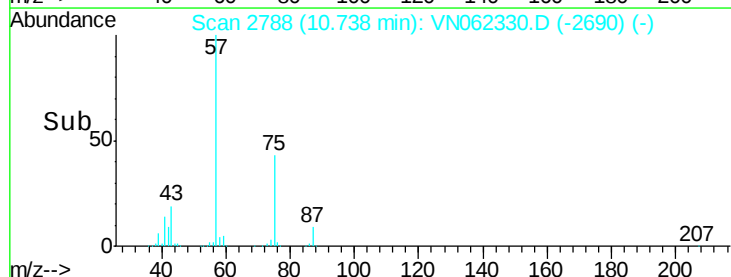
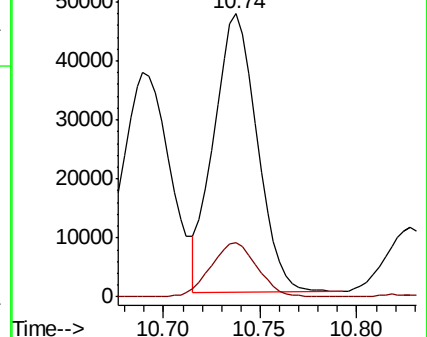
43 100

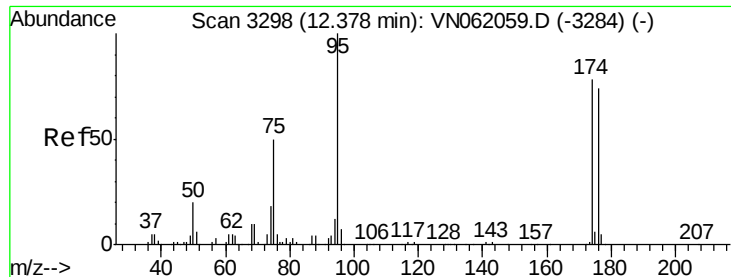
58 20.9 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.243 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

PL-02-063020

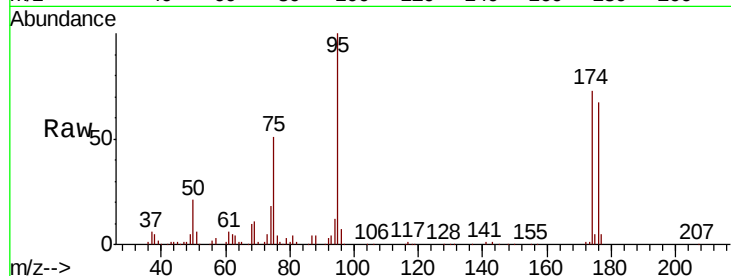
Tot Ion: 95 Resp: 174128

Ion Ratio Lower Upper

95 100

174 72.1 0.0 154.8

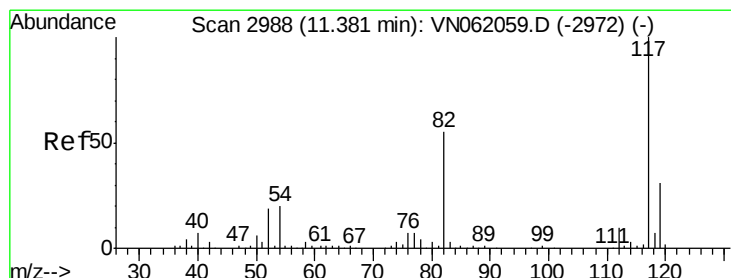
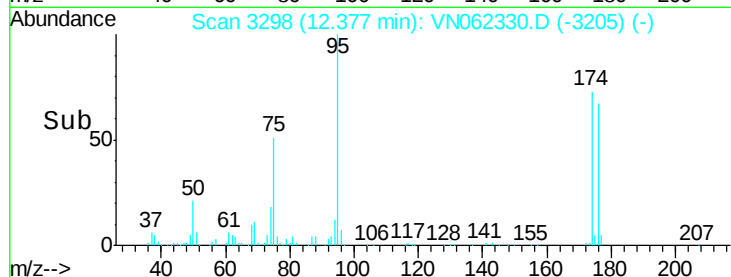
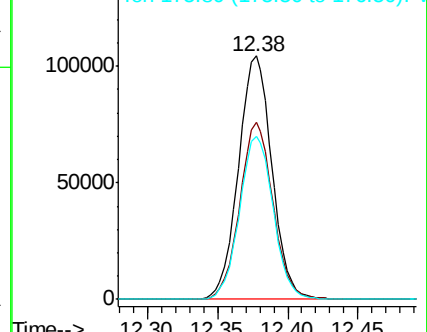
176 67.7 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062330.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062330.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062330.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

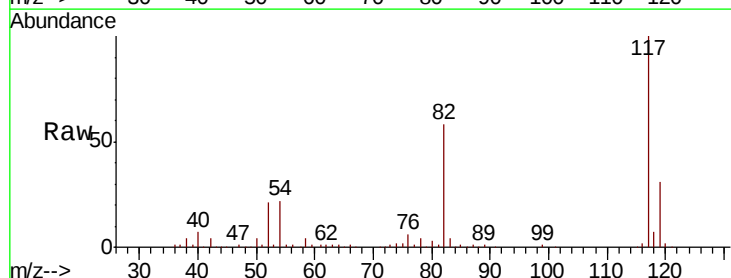
Tgt Ion: 117 Resp: 414935

Ion Ratio Lower Upper

117 100

82 58.4 43.8 65.8

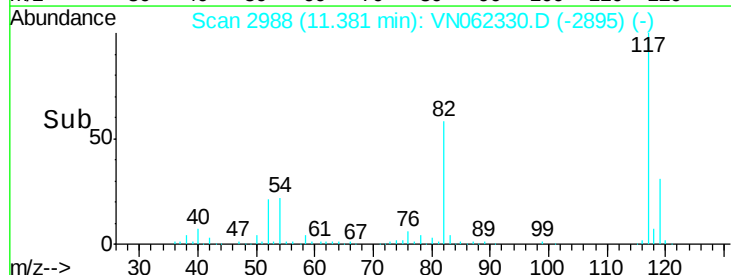
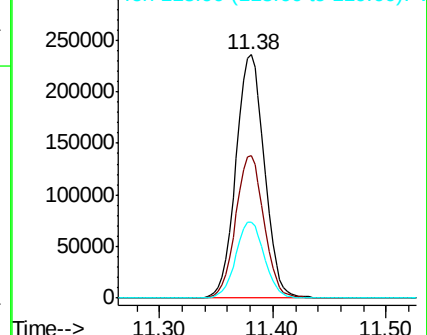
119 31.4 25.2 37.8

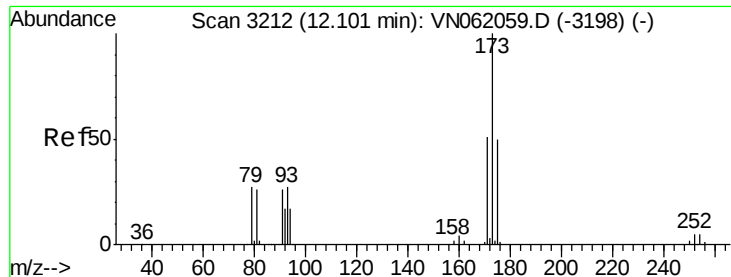


Abundance Ion 116.90 (116.60 to 117.60): VN062330.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062330.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062330.D (-2895) (-)





#71

Bromoform

Concen: 0.762 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

PL-02-063020

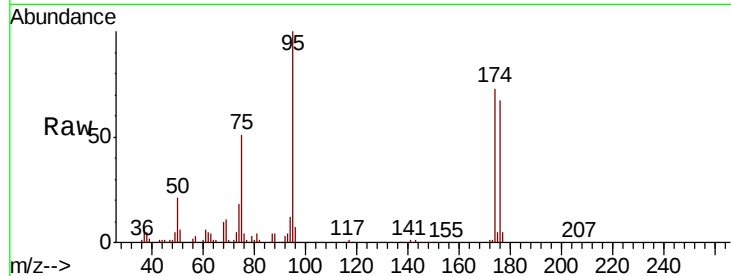
Tot Ion:173 Resp: 1706

Ion Ratio Lower Upper

173 100

175 473.5 24.7 74.1#

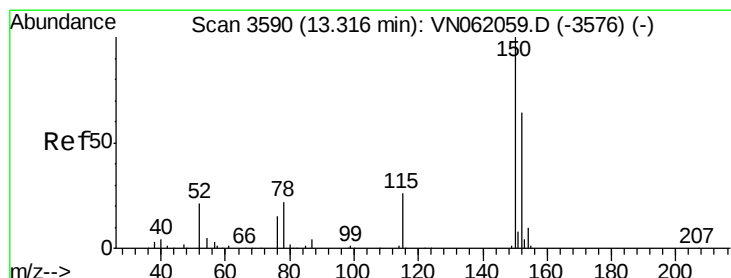
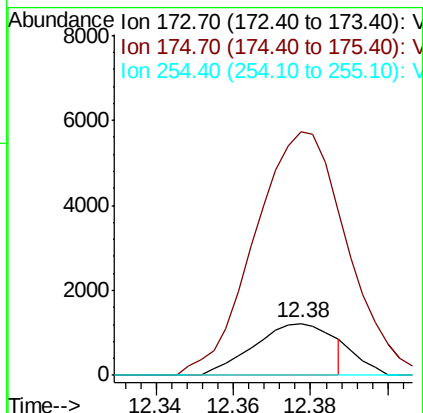
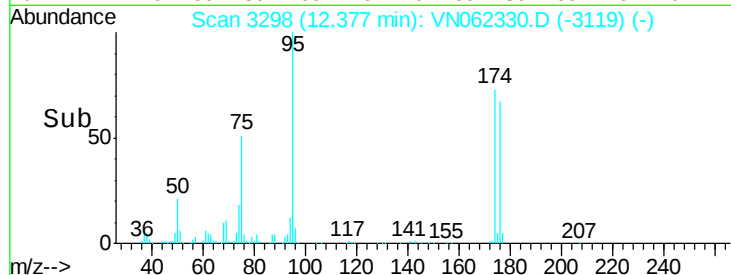
254 0.0 0.0 0.0



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: VN062330.D

Acq: 2 Jul 2020 8:22

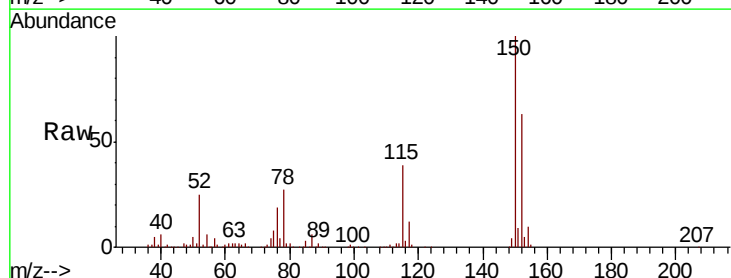
Tgt Ion:152 Resp: 140986

Ion Ratio Lower Upper

152 100

115 61.7 29.5 88.5

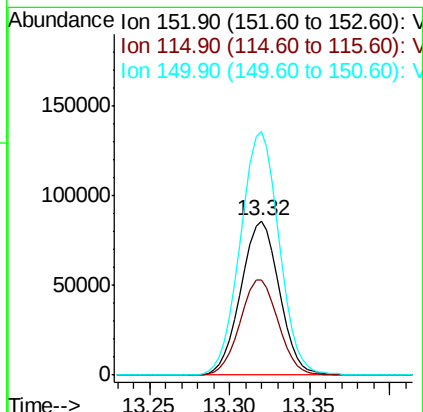
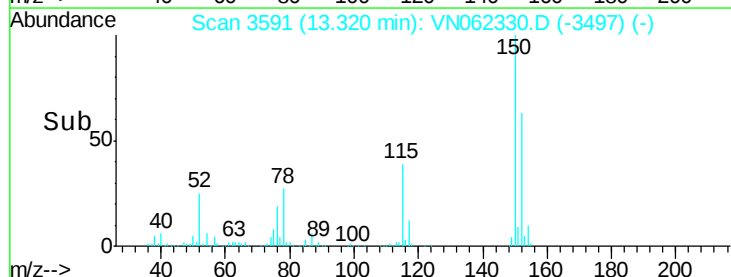
150 159.6 0.0 351.4

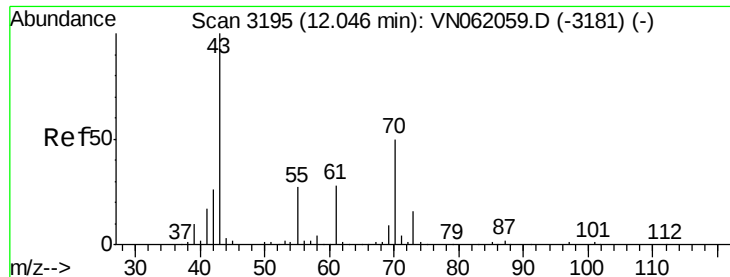


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.848 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062330.D

Acq: 2 Jul 2020 8:22

Instrument :

MSVOA_N

ClientSampleId :

PL-02-063020

Tot Ion: 43 Resp: 2173

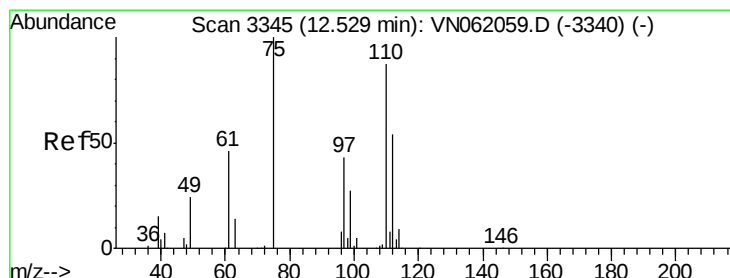
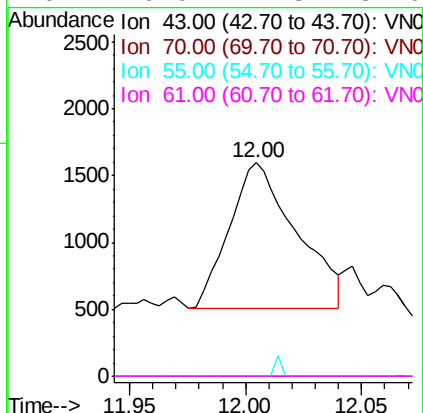
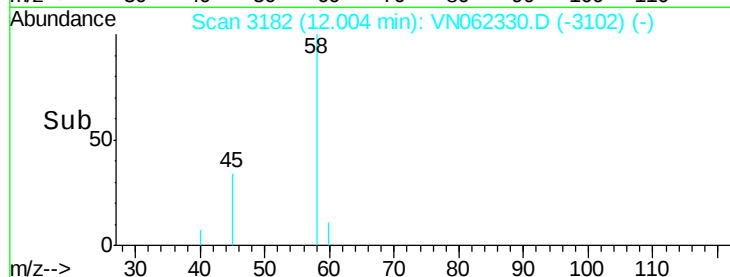
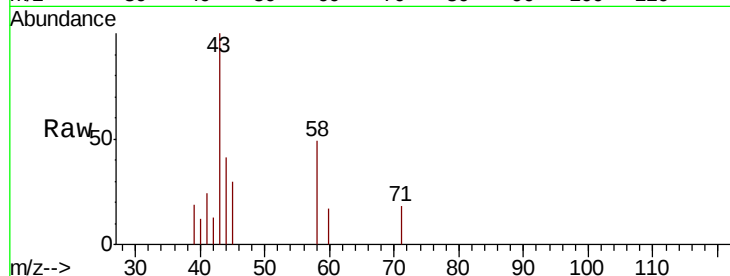
Ion Ratio Lower Upper

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: 26.811 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062330.D

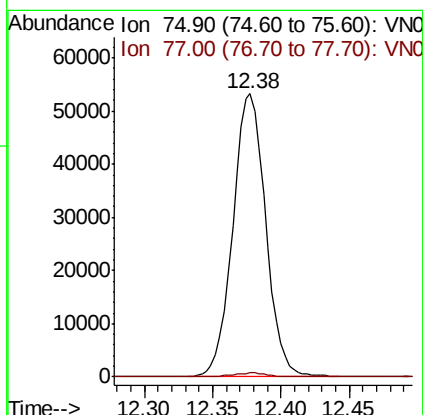
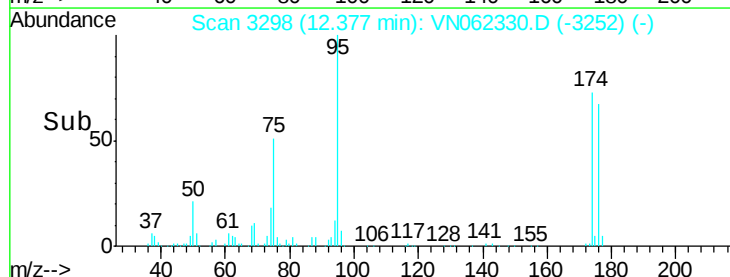
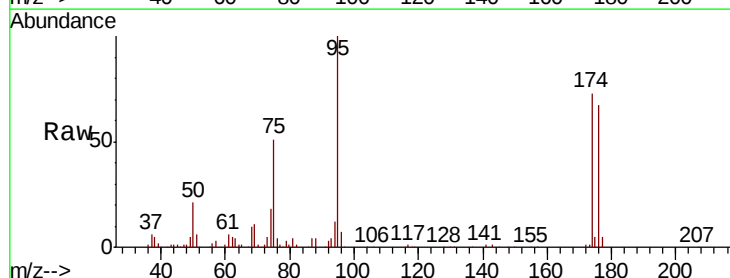
Acq: 2 Jul 2020 8:22

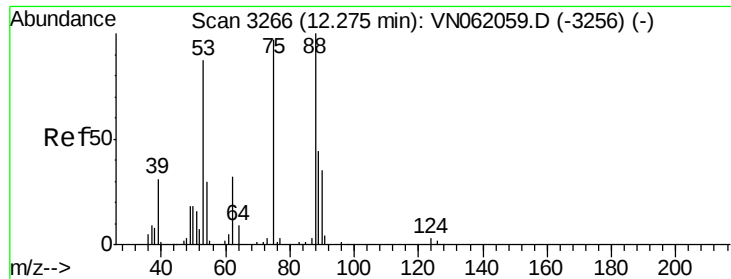
Tgt Ion: 75 Resp: 88985

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

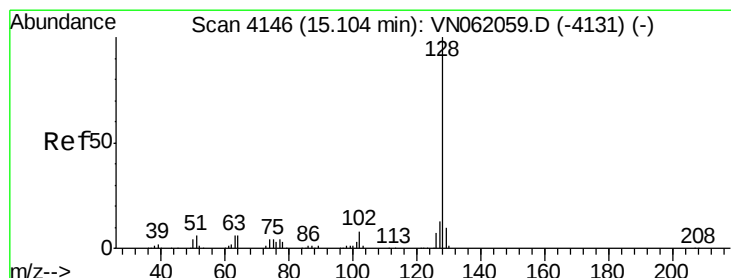
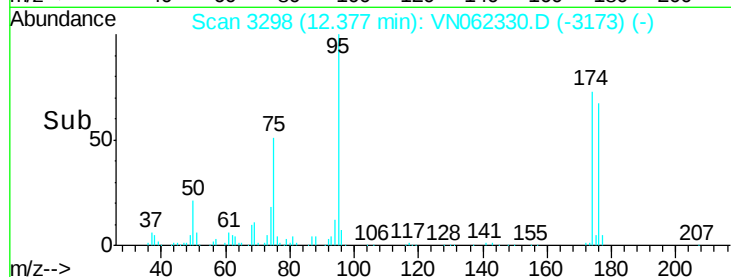
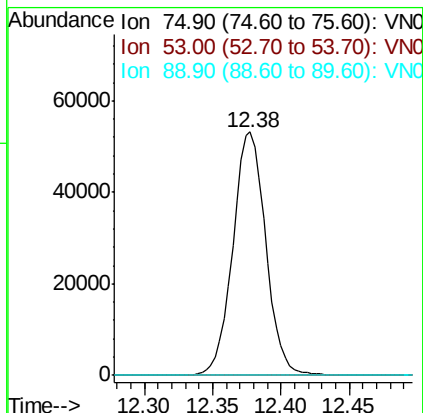
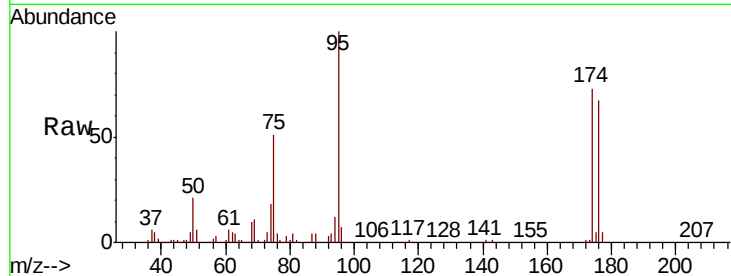




#81
trans-1,4-Dichloro-2-butene
Concen: 78.299 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Instrument :
MSVOA_N
ClientSampleId :
PL-02-063020

Tot Ion: 75 Resp: 88985
Ion Ratio Lower Upper
75 100
53 0.0 72.0 108.0#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 4.129 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062330.D
Acq: 2 Jul 2020 8:22

Tgt Ion: 128 Resp: 978
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

