

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062289.D
 Acq On : 1 Jul 2020 14:03
 Operator : JC/MD
 Sample : L3127-06DL 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200625DL

Quant Time: Jul 02 06:53:13 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	192787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	378251	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	360387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	130827	50.00	ug/l	0.00

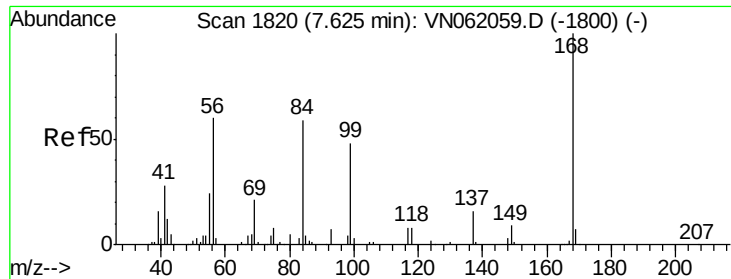
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	152910	56.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.04%	
35) Dibromofluoromethane	7.55	113	123108	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
50) Toluene-d8	10.06	98	487206	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
62) 4-Bromofluorobenzene	12.38	95	153112	46.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.44%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	611	0.280	ug/l #	43
3) Chloromethane	2.03	50	146	Below Cal	#	41
4) Vinyl Chloride	2.16	62	10367	3.021	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.71	101	767	0.346	ug/l #	36
12) 1,1-Dichloroethene	3.70	96	496	0.224	ug/l #	71
16) Acetone	3.78	43	440	Below Cal	#	40
18) Methyl Acetate	4.28	43	1294	0.602	ug/l #	55
20) Methylene Chloride	4.50	84	481	Below Cal	#	34
27) cis-1,2-Dichloroethene	6.78	96	141727	49.945	ug/l	92
31) Cyclohexane	7.62	56	4850	1.298	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	17574	4.622	ug/l #	48
38) Carbon Tetrachloride	7.63	117	20834	5.812	ug/l #	16
39) Methylcyclohexane	8.80	83	2167	0.520	ug/l #	1
44) Trichloroethene	8.80	130	161914	55.390	ug/l	96
51) 4-Methyl-2-Pentanone	10.06	43	2210	0.737	ug/l #	1
74) N-amyl acetate	12.05	43	137	3.377	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	79002	25.652	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79002	74.913	ug/l #	13
95) Naphthalene	15.11	128	309	4.040	ug/l #	69

(#) = 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: VN062289.D

Acq: 1 Jul 2020 14:03

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ClientSampleId :

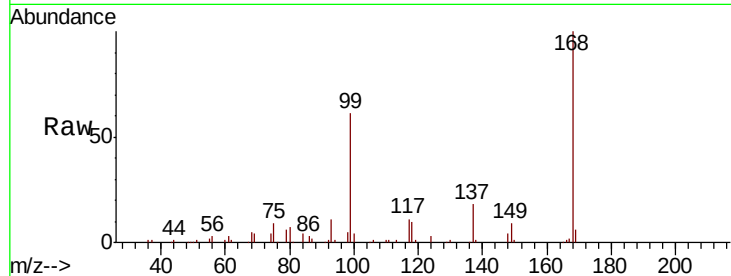
DUP01-20200625DL

Tot Ion:168 Resp: 192787

Ion Ratio Lower Upper

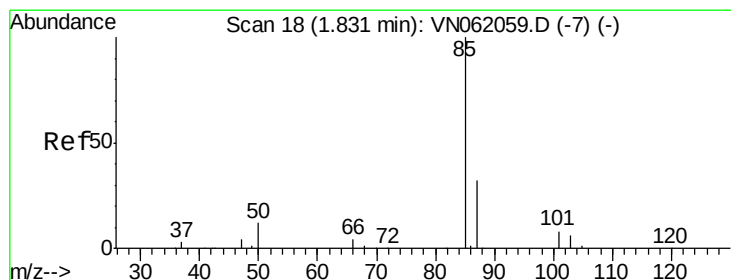
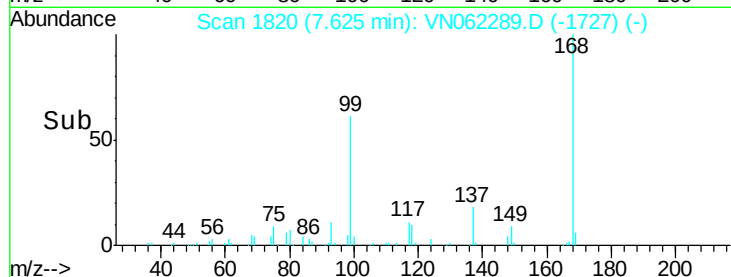
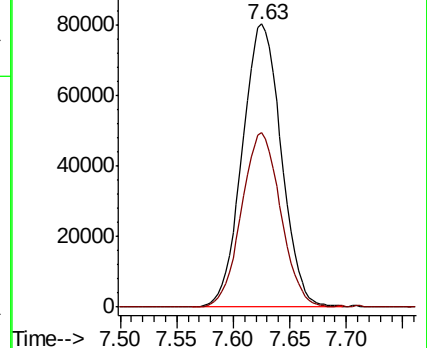
168 100

99 61.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.280 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN062289.D

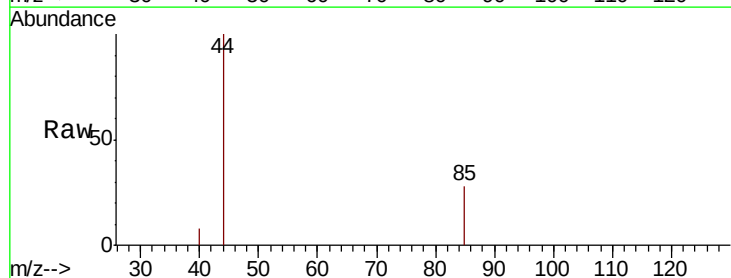
Acq: 1 Jul 2020 14:03

Tgt Ion: 85 Resp: 611

Ion Ratio Lower Upper

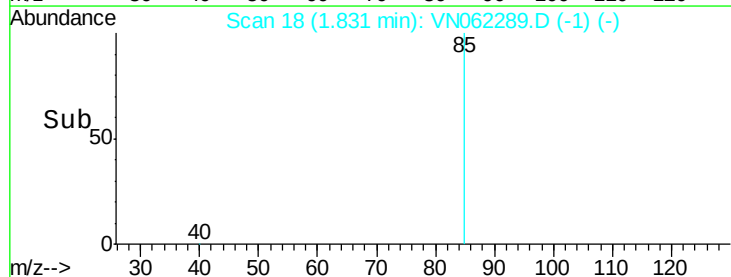
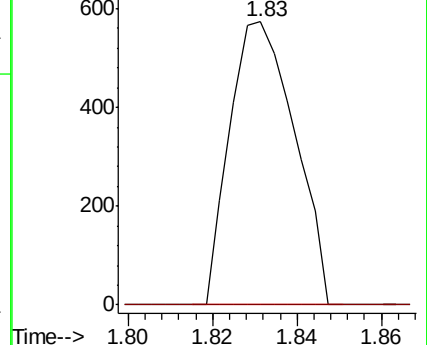
85 100

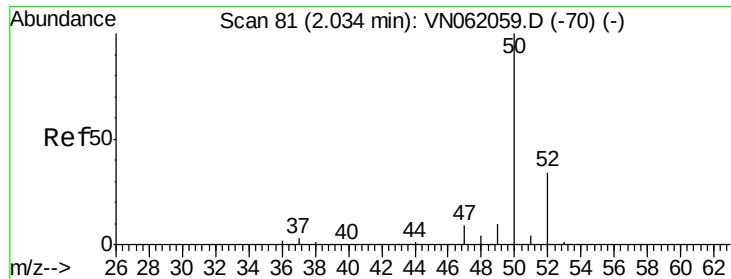
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

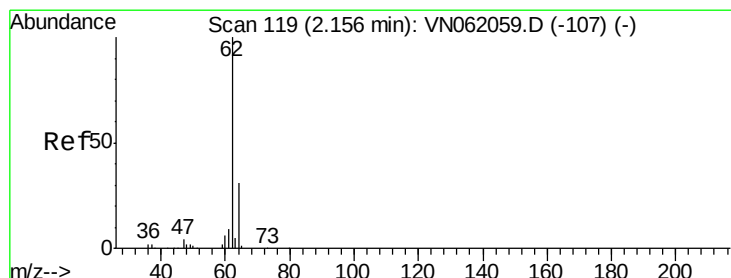
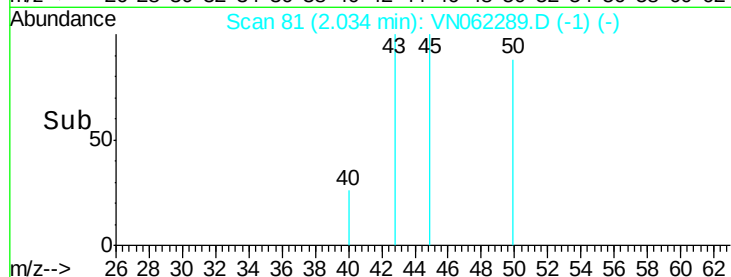
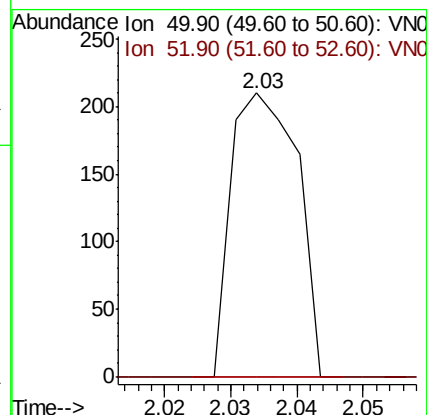
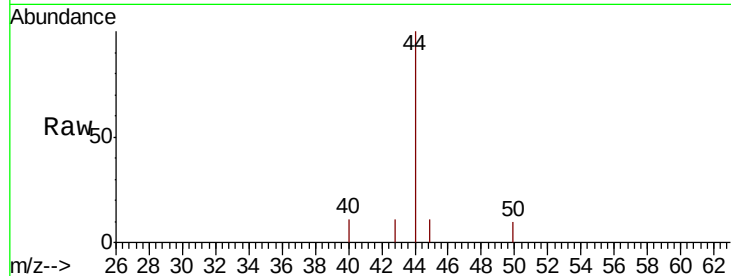
DUP01-20200625DL

Tot Ion: 50 Resp: 146

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



#4

Vinyl Chloride

Concen: 3.021 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062289.D

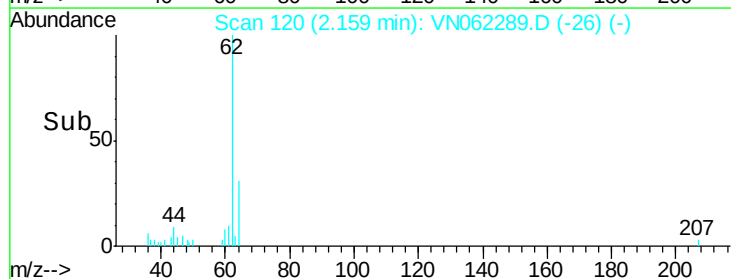
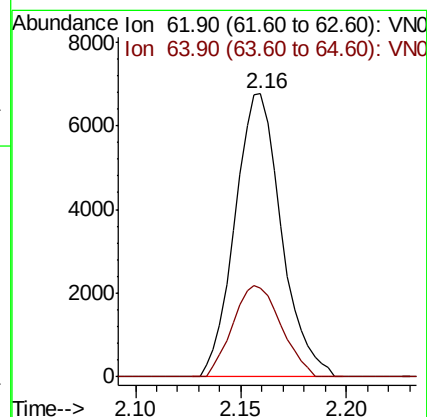
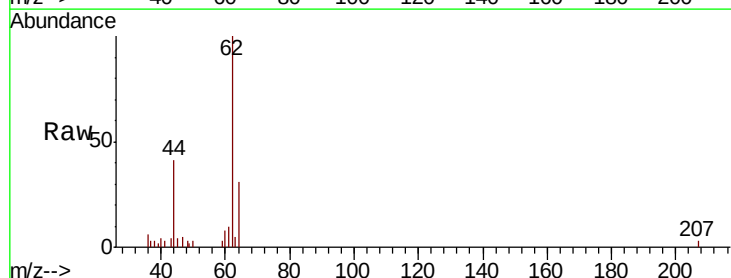
Acq: 1 Jul 2020 14:03

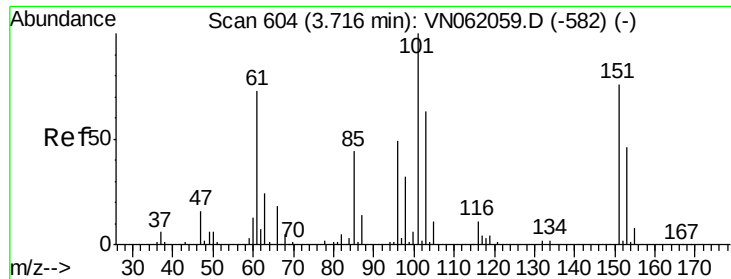
Tgt Ion: 62 Resp: 10367

Ion Ratio Lower Upper

62 100

64 31.4 25.1 37.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.346 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

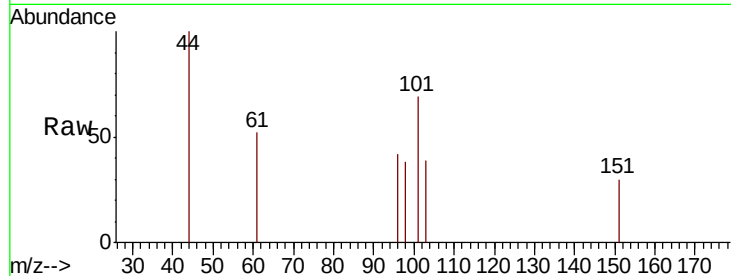
Tot Ion:101 Resp: 767

Ion Ratio Lower Upper

101 100

85 0.0 34.5 51.7#

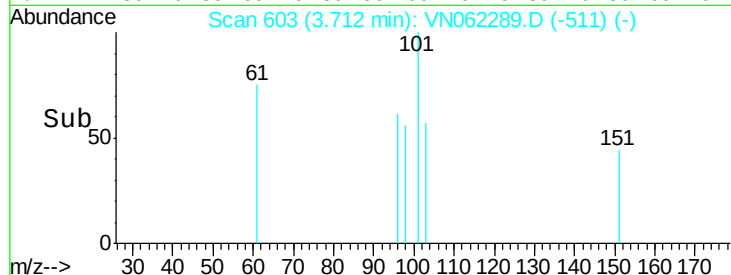
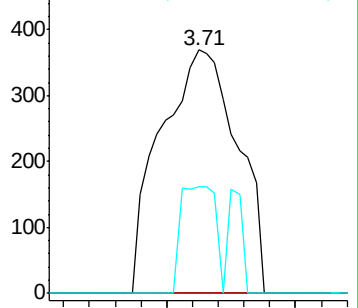
151 19.9 57.8 86.8#



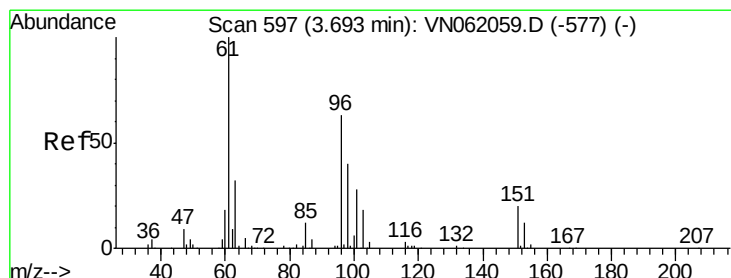
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.224 ug/l

RT: 3.70 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

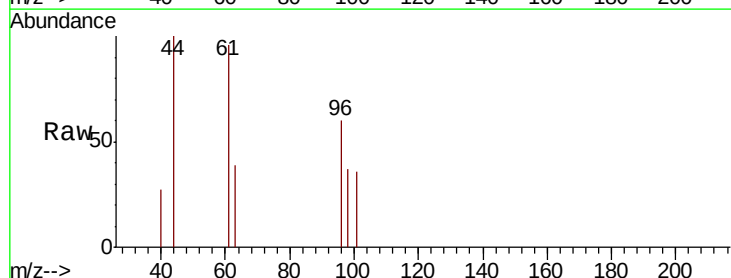
Tgt Ion: 96 Resp: 496

Ion Ratio Lower Upper

96 100

61 106.6 126.7 190.1#

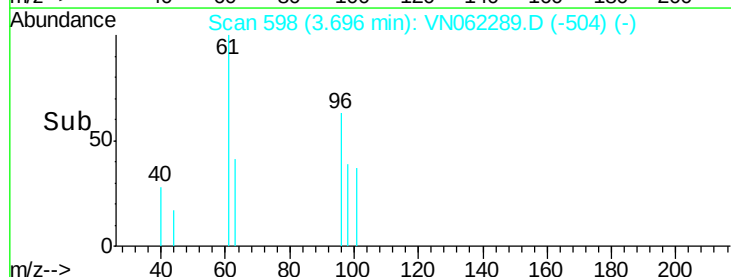
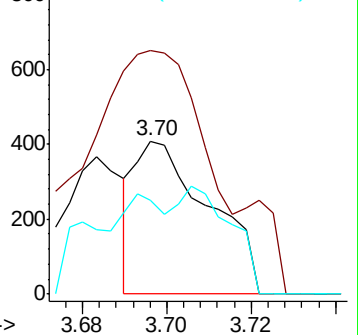
98 61.4 51.0 76.4



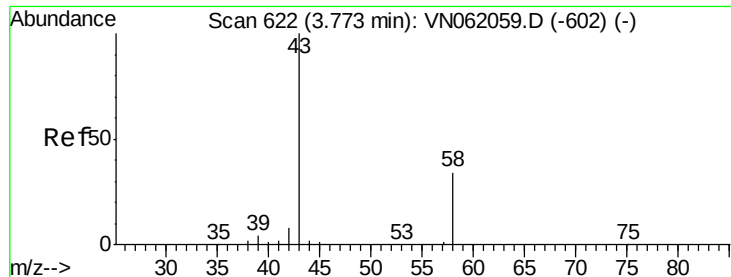
Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



Time-->



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

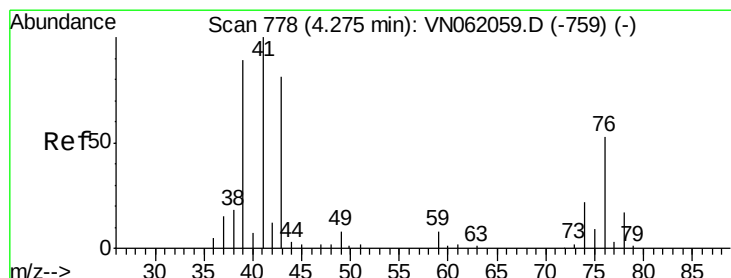
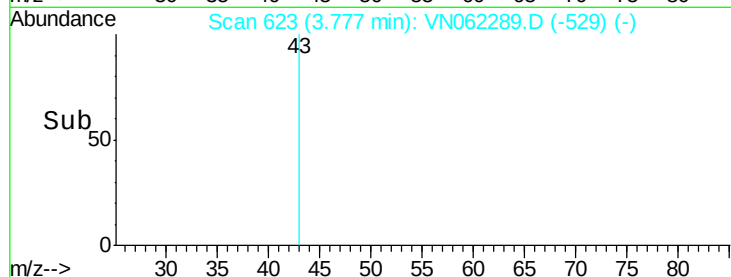
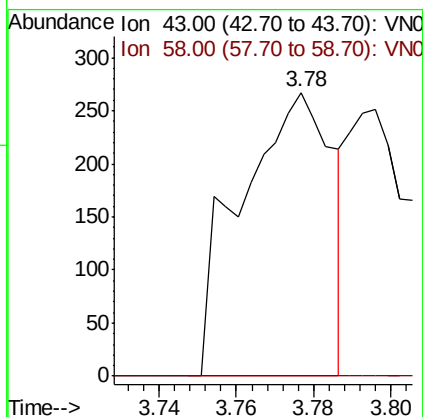
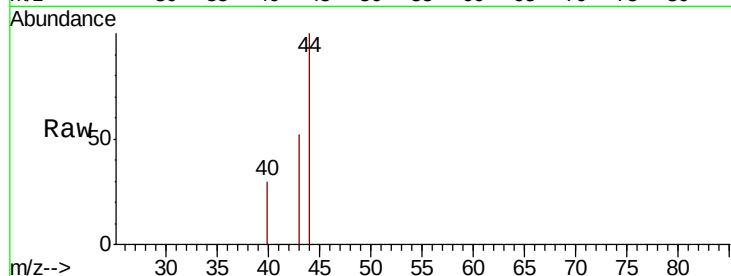
DUP01-20200625DL

Tot Ion: 43 Resp: 440

Ion Ratio Lower Upper

43 100

58 0.0 27.5 41.3#



#18

Methyl Acetate

Concen: 0.602 ug/l

RT: 4.28 min Scan# 779

Delta R.T. 0.00 min

Lab File: VN062289.D

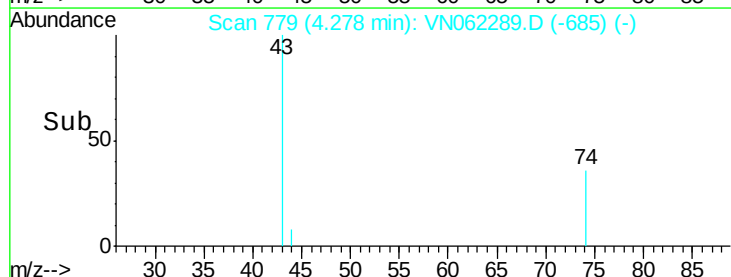
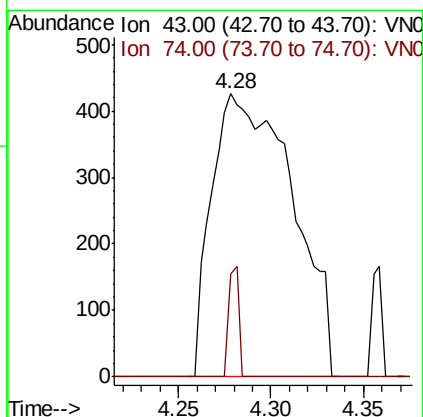
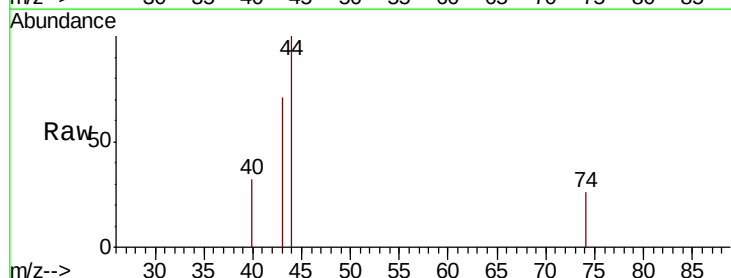
Acq: 1 Jul 2020 14:03

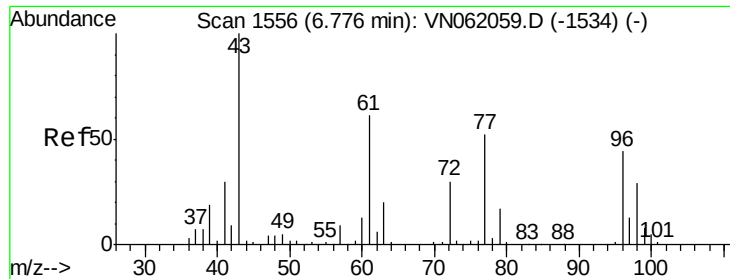
Tgt Ion: 43 Resp: 1294

Ion Ratio Lower Upper

43 100

74 4.8 22.9 34.3#





#27

cis-1,2-Dichloroethene

Concen: 49.945 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

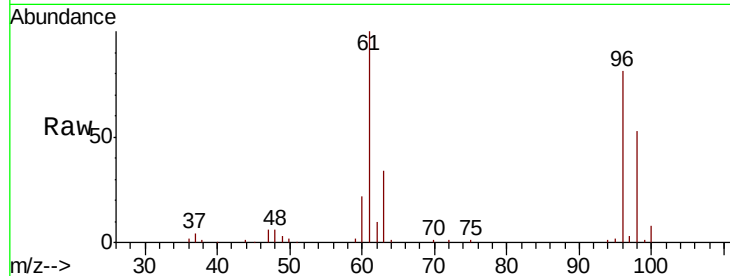
Tot Ion: 96 Resp: 141727

Ion Ratio Lower Upper

96 100

61 127.2 0.0 280.4

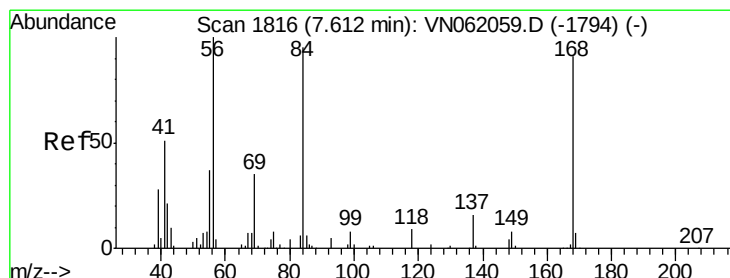
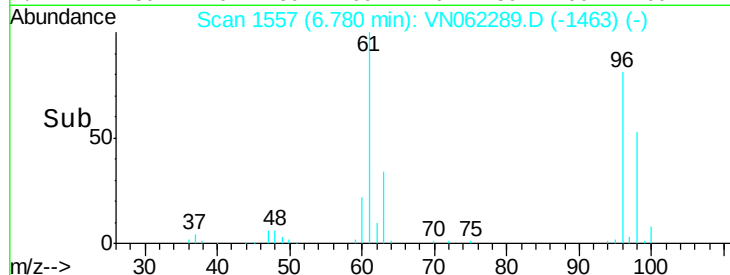
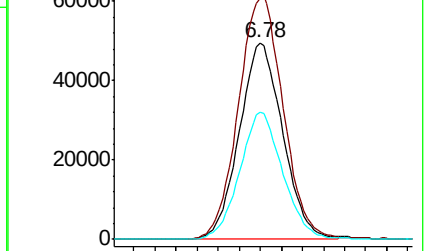
98 63.8 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN062289.D (-1463) (-)

Ion 60.90 (60.60 to 61.60): VN062289.D (-1463) (-)

Ion 97.90 (97.60 to 98.60): VN062289.D (-1463) (-)



#31

Cyclohexane

Concen: 1.298 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

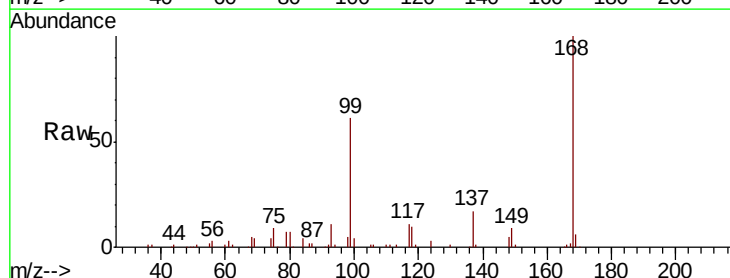
Tgt Ion: 56 Resp: 4850

Ion Ratio Lower Upper

56 100

69 143.6 28.0 42.0#

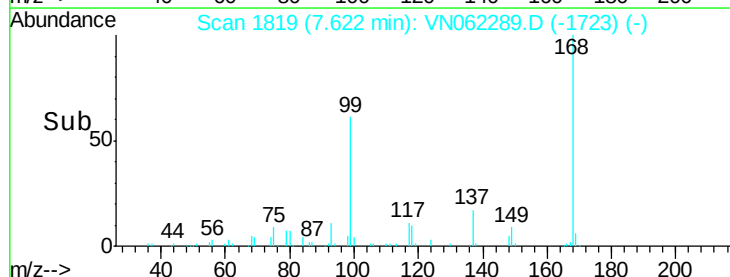
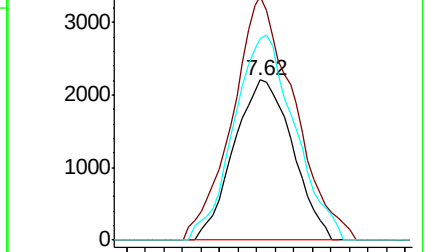
84 126.0 76.1 114.1#

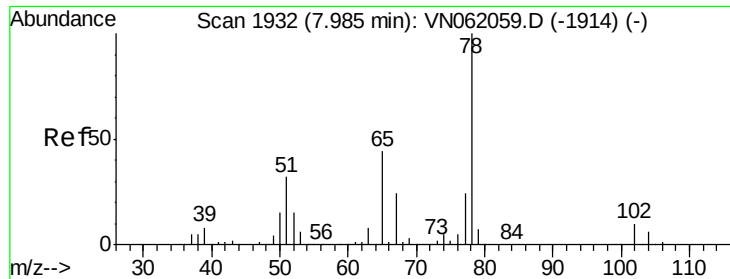


Abundance Ion 56.00 (55.70 to 56.70): VN062289.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062289.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062289.D (-1723) (-)

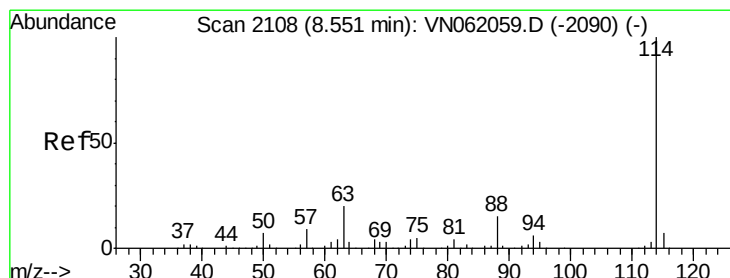
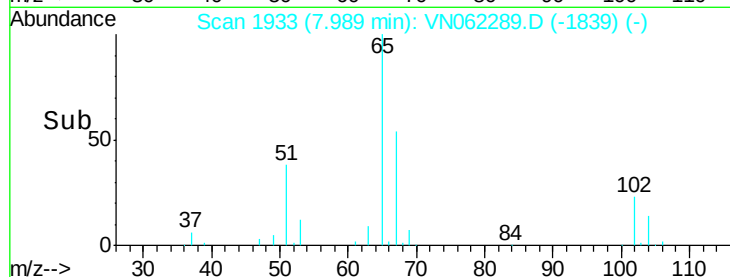
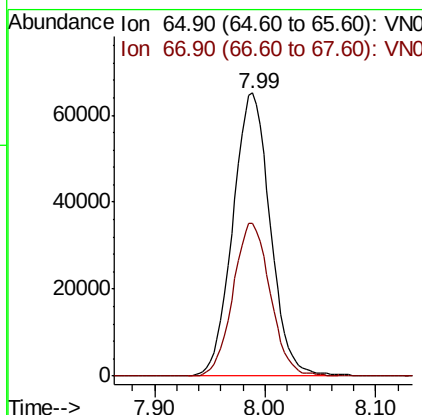
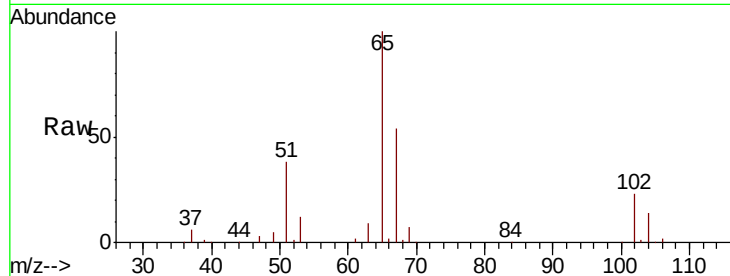




#33
 1,2-Dichloroethane-d4
 Concen: 56.519 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062289.D
 Acq: 1 Jul 2020 14:03

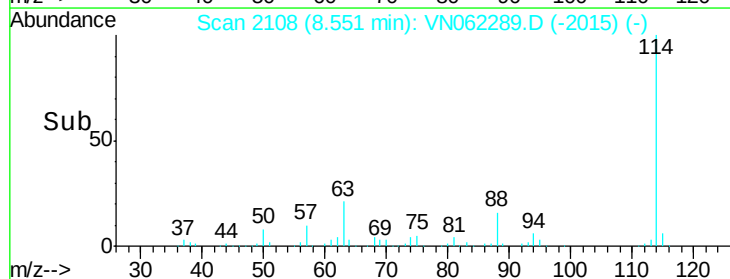
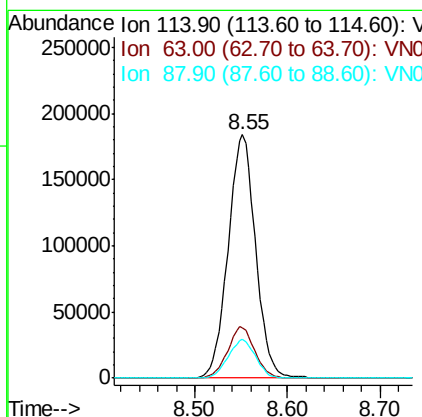
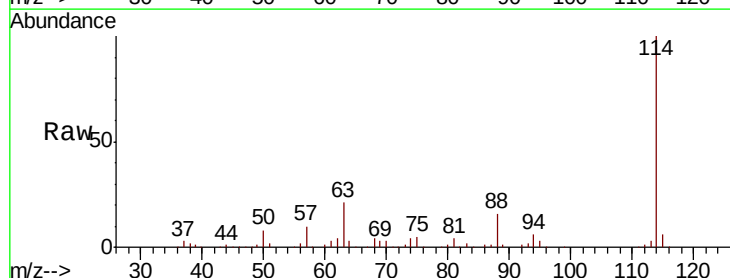
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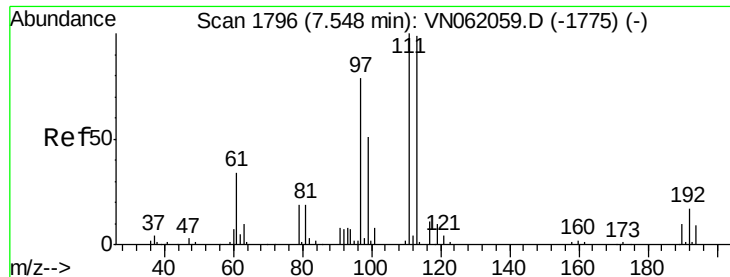
Tot Ion: 65 Resp: 152910
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062289.D
 Acq: 1 Jul 2020 14:03

Tgt Ion: 114 Resp: 378251
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 39.2
 88 15.9 0.0 30.8

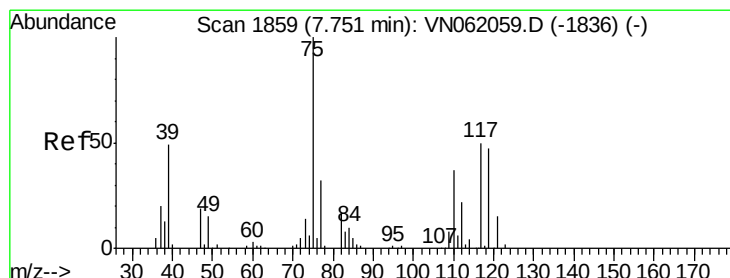
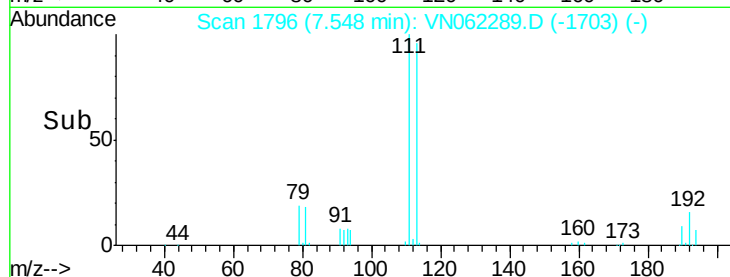
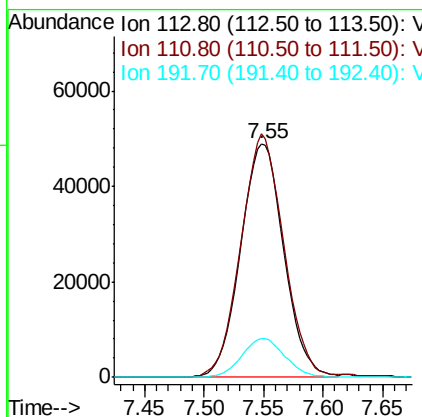
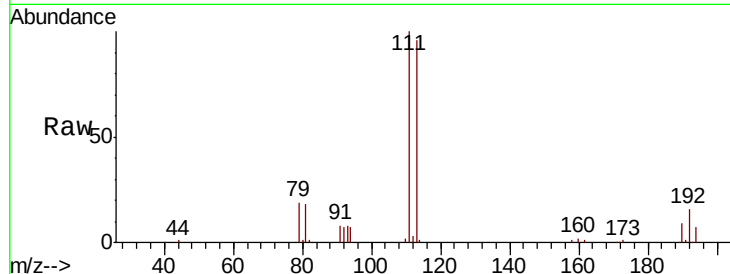




#35
 Dibromofluoromethane
 Concen: 50.731 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062289.D
 Acq: 1 Jul 2020 14:03

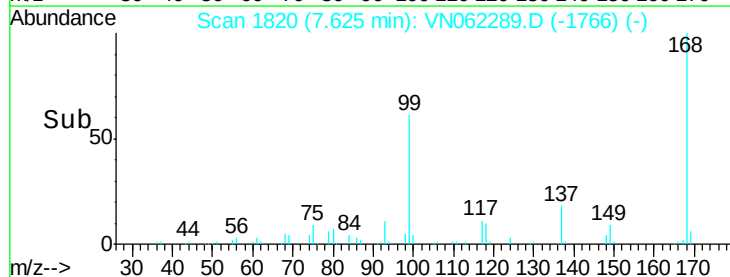
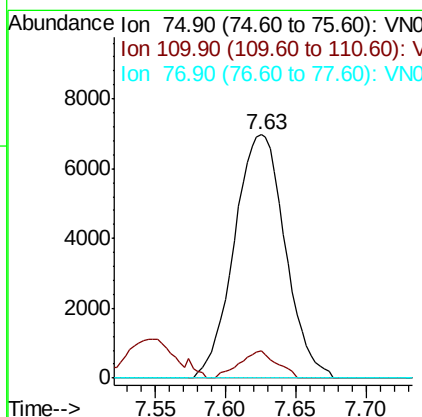
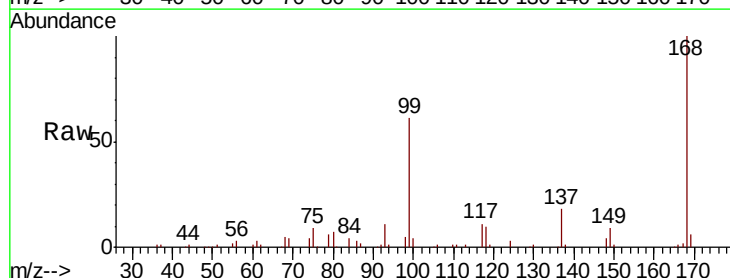
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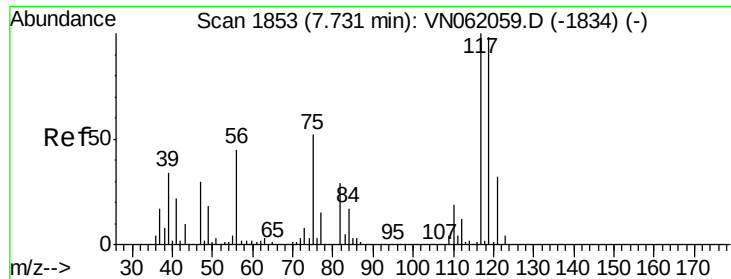
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	16.7	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.622 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062289.D
 Acq: 1 Jul 2020 14:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.812 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

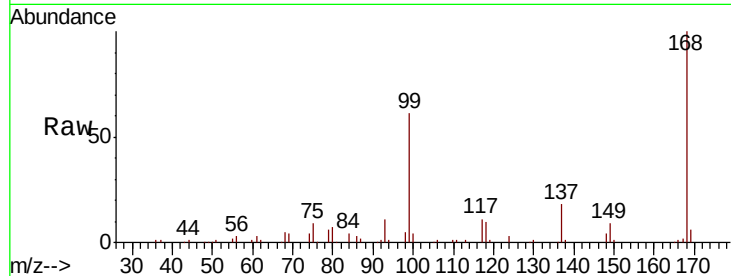
Tot Ion:117 Resp: 20834

Ion Ratio Lower Upper

117 100

119 5.7 78.2 117.2#

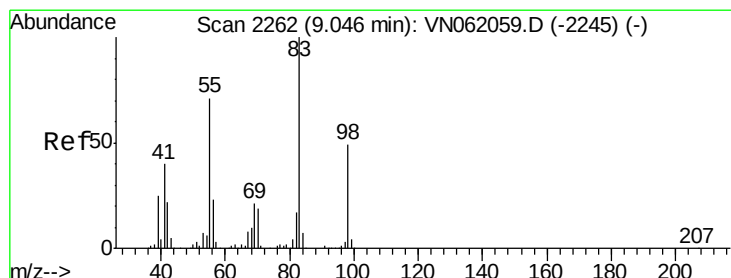
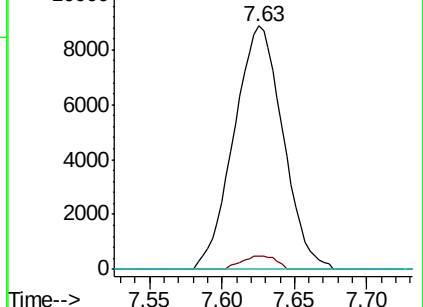
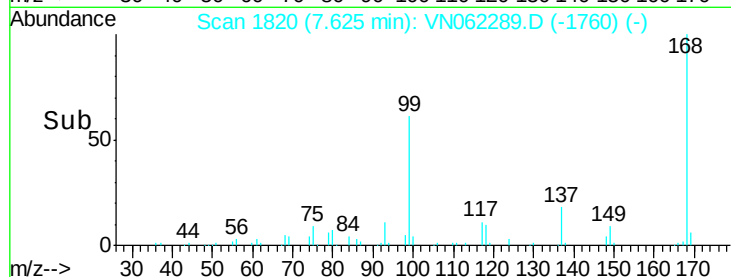
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.520 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

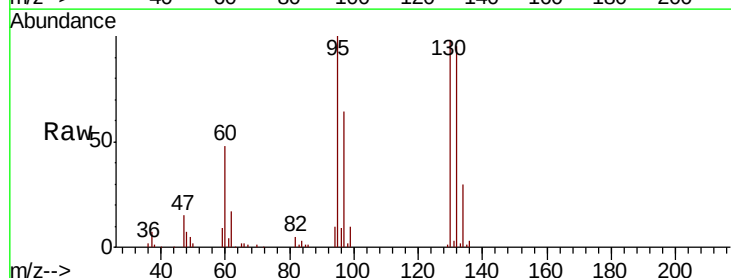
Tgt Ion: 83 Resp: 2167

Ion Ratio Lower Upper

83 100

55 0.0 57.0 85.6#

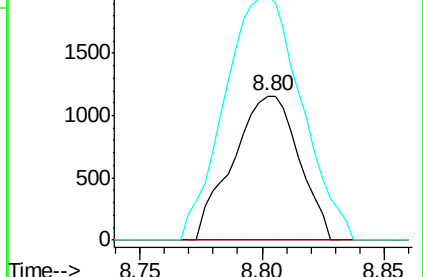
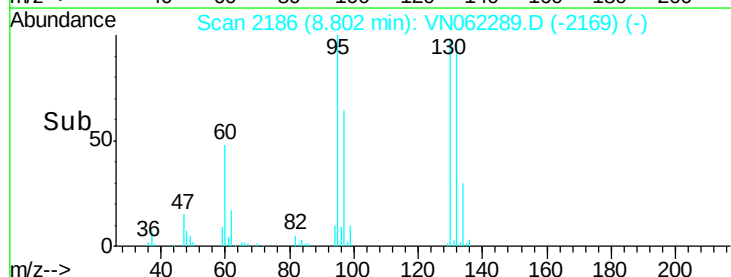
98 151.1 39.0 58.6#

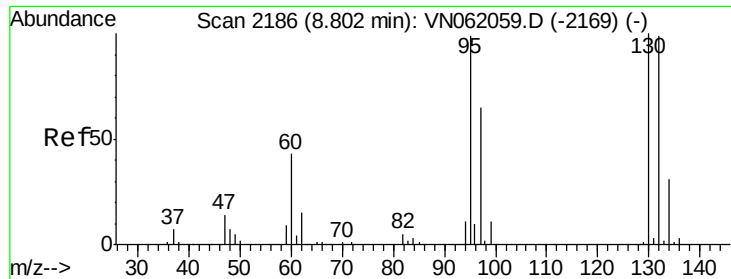


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 55.390 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

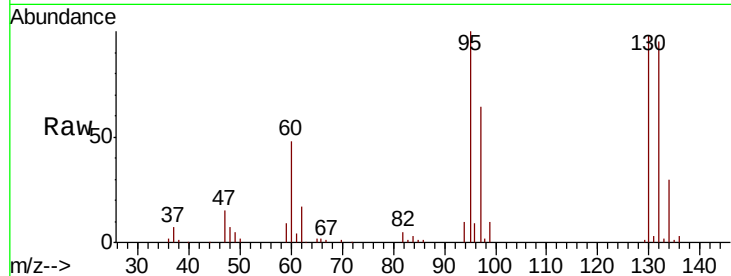
DUP01-20200625DL

Tot Ion:130 Resp: 161914

Ion Ratio Lower Upper

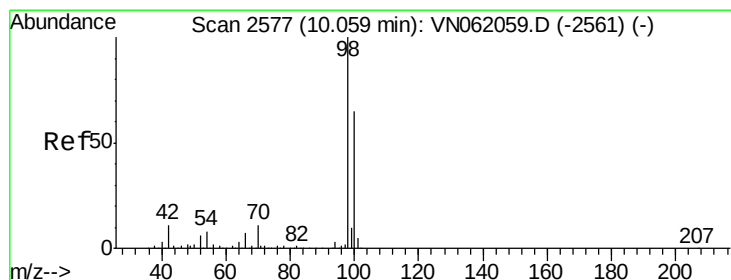
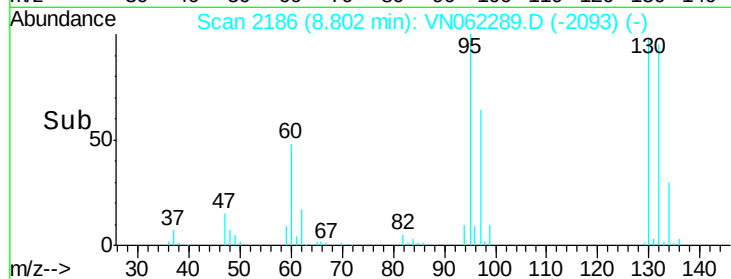
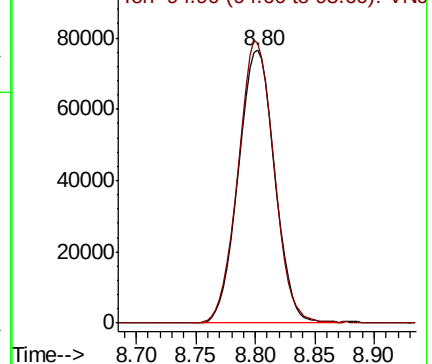
130 100

95 102.5 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 50.226 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062289.D

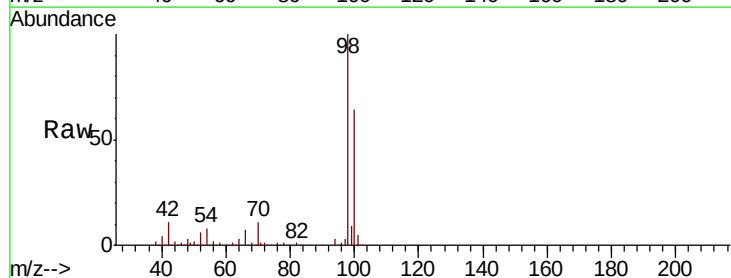
Acq: 1 Jul 2020 14:03

Tgt Ion: 98 Resp: 487206

Ion Ratio Lower Upper

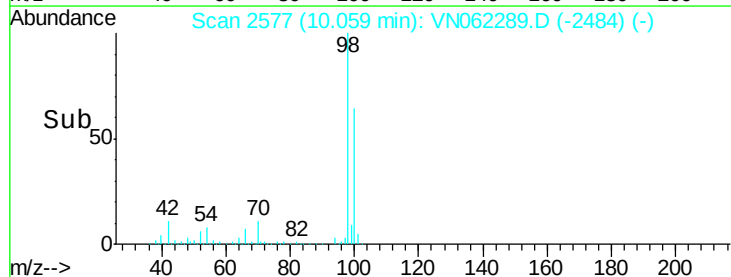
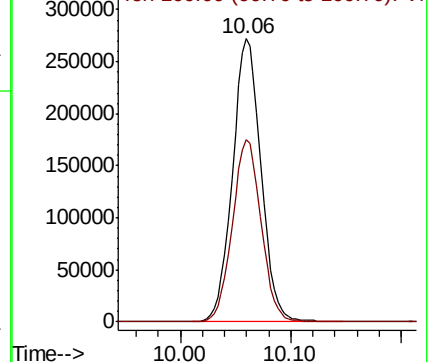
98 100

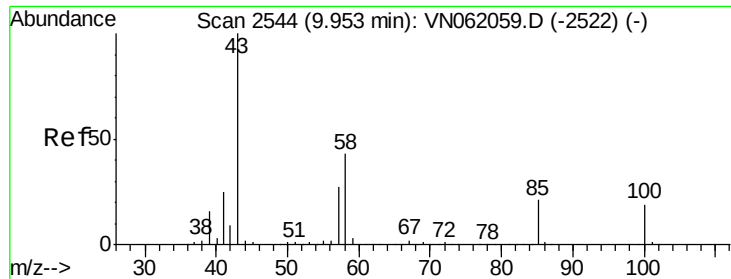
100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.737 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

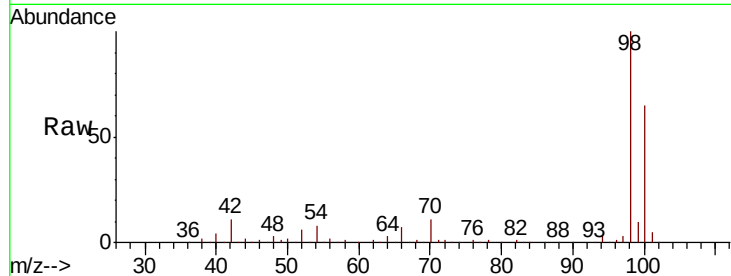
DUP01-20200625DL

Tot Ion: 43 Resp: 2210

Ion Ratio Lower Upper

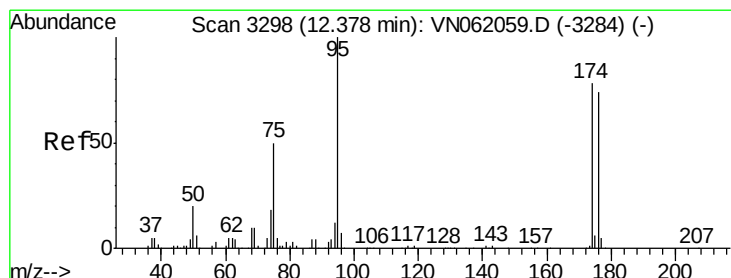
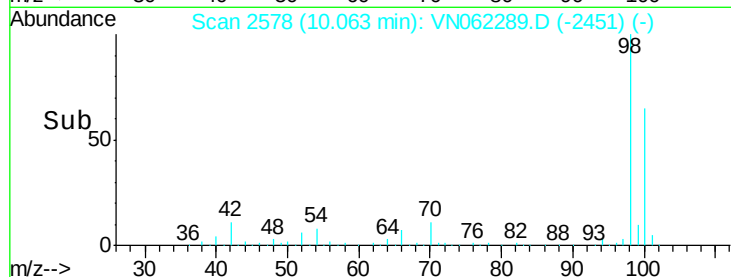
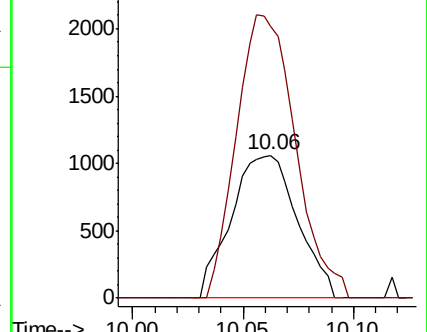
43 100

58 176.5 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062289.D (-2451) (-)

Ion 58.00 (57.70 to 58.70): VN062289.D (-2451) (-)



#62

4-Bromofluorobenzene

Concen: 46.719 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

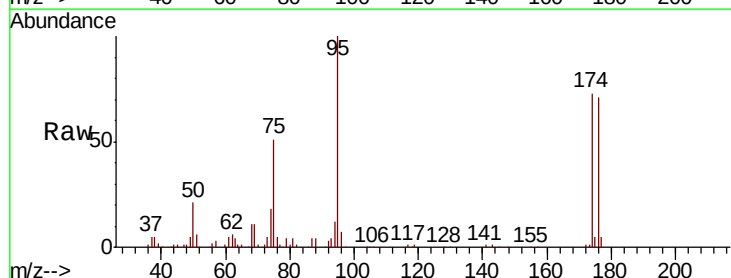
Tgt Ion: 95 Resp: 153112

Ion Ratio Lower Upper

95 100

174 73.0 0.0 154.8

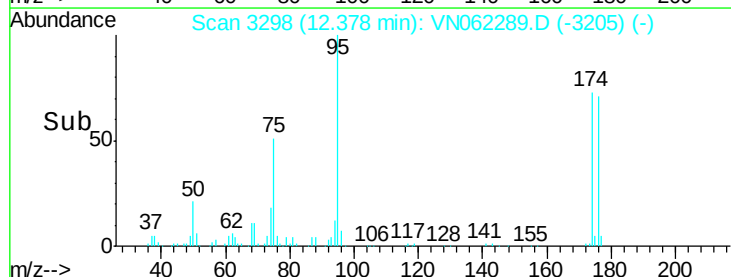
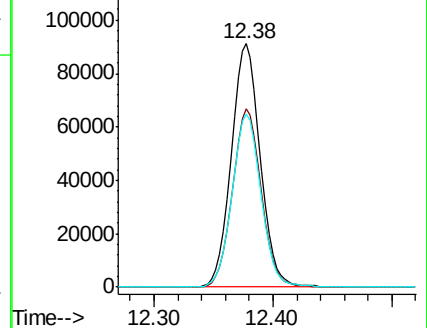
176 71.3 0.0 147.4

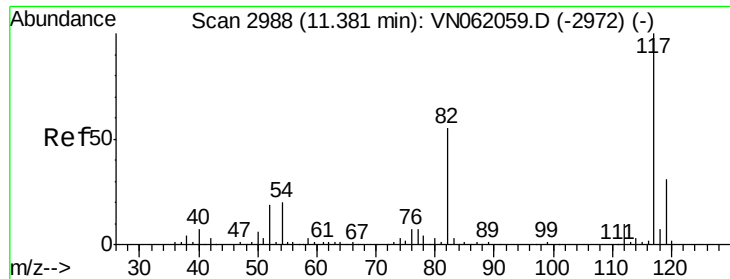


Abundance Ion 94.90 (94.60 to 95.60): VN062289.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062289.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062289.D (-3205) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

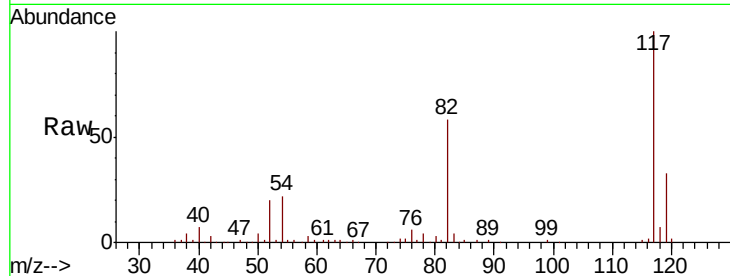
Tot Ion:117 Resp: 360387

Ion Ratio Lower Upper

117 100

82 58.3 43.8 65.8

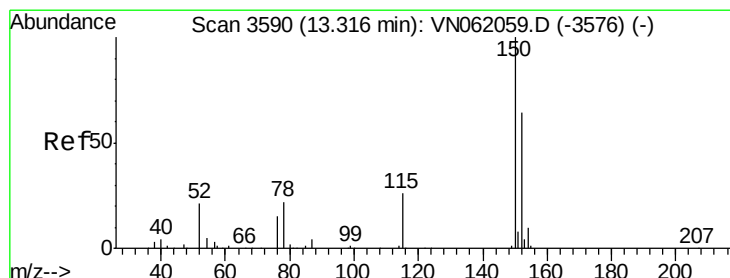
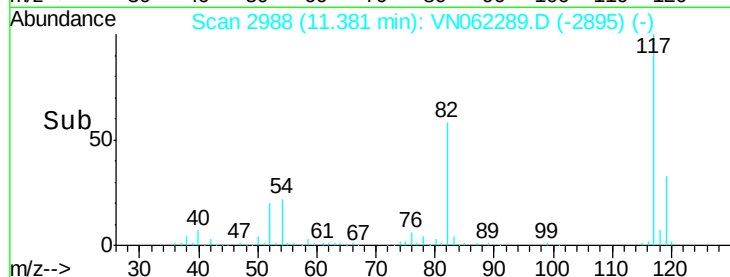
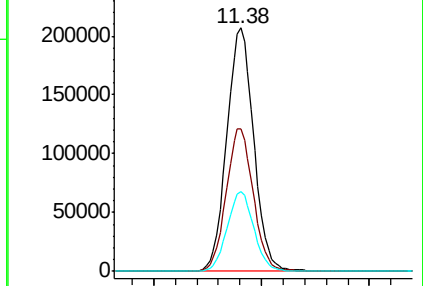
119 32.7 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): 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: VN062289.D

Acq: 1 Jul 2020 14:03

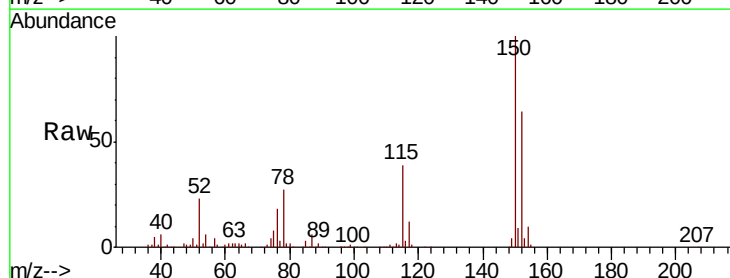
Tgt Ion:152 Resp: 130827

Ion Ratio Lower Upper

152 100

115 60.5 29.5 88.5

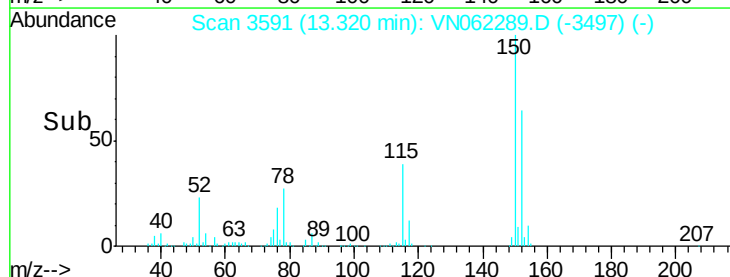
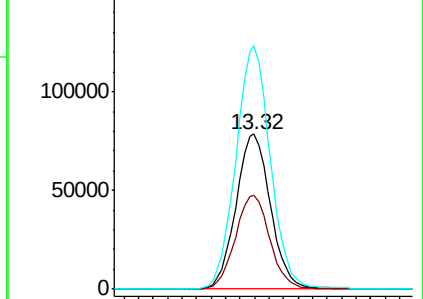
150 156.3 0.0 351.4

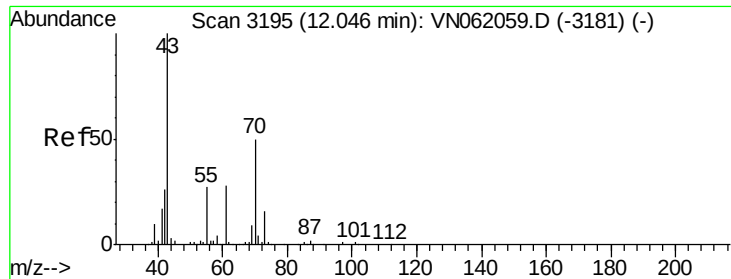


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.377 ug/l

RT: 12.05 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

Tot Ion: 43 Resp: 137

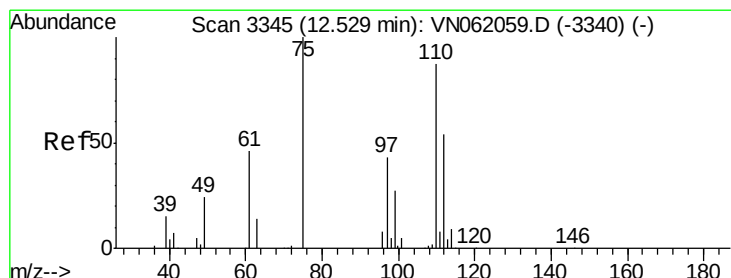
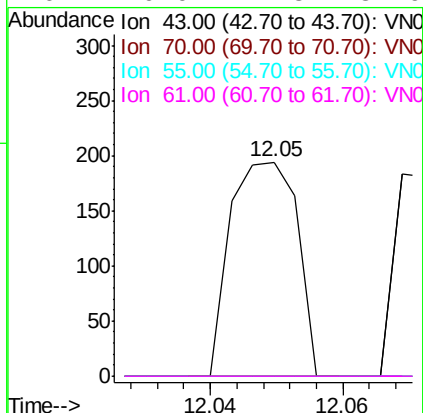
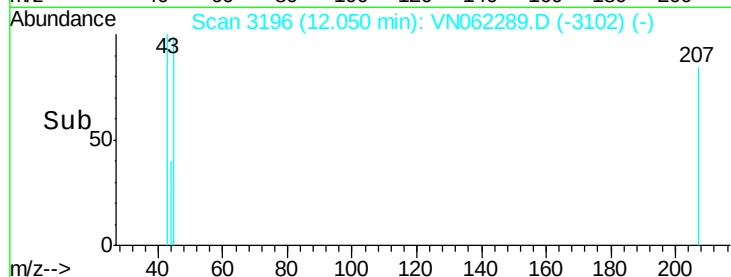
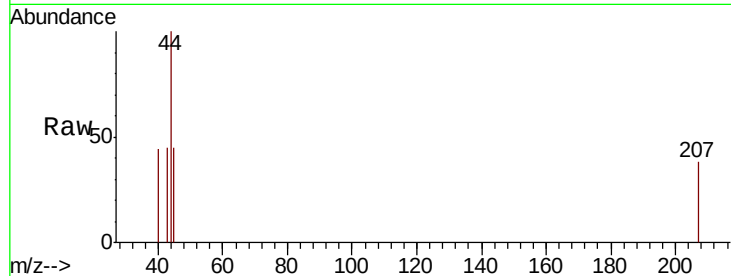
Ion Ratio Lower Upper

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: 25.652 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062289.D

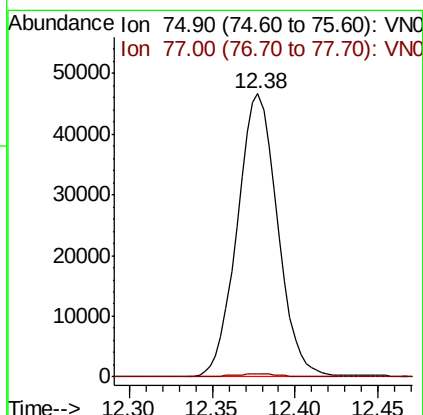
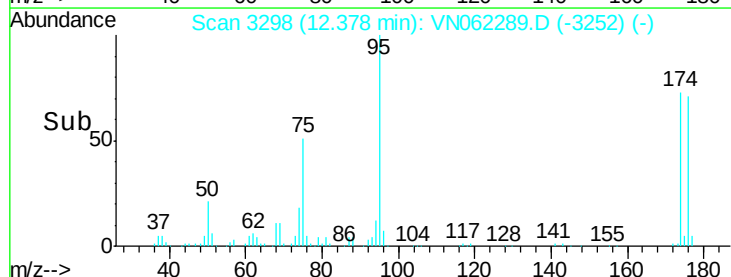
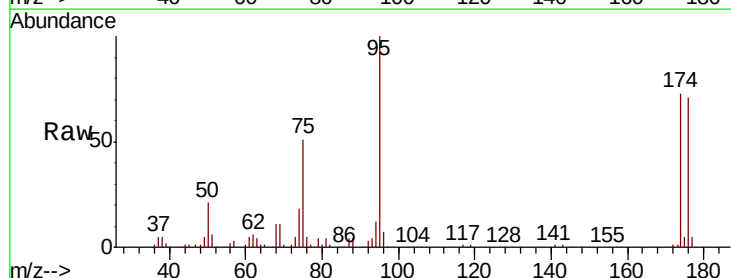
Acq: 1 Jul 2020 14:03

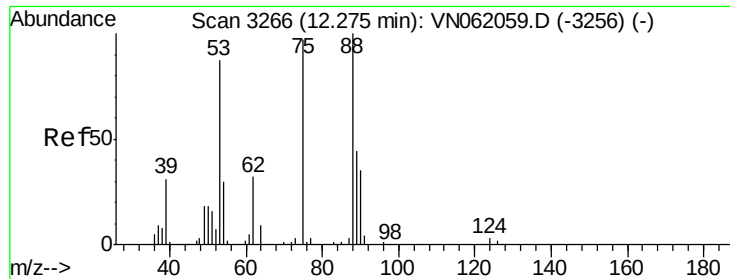
Tgt Ion: 75 Resp: 79002

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.913 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200625DL

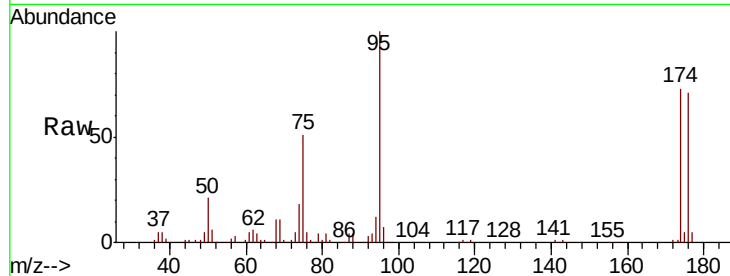
Tot Ion: 75 Resp: 79002

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

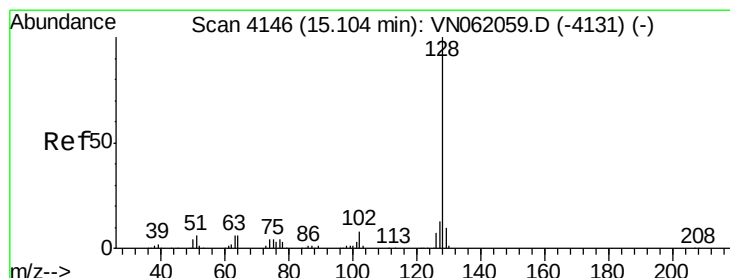
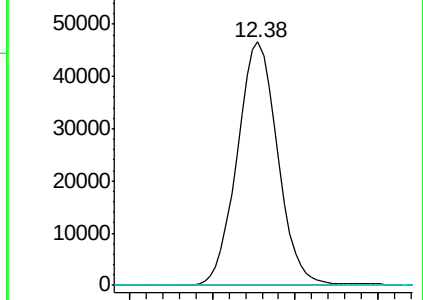
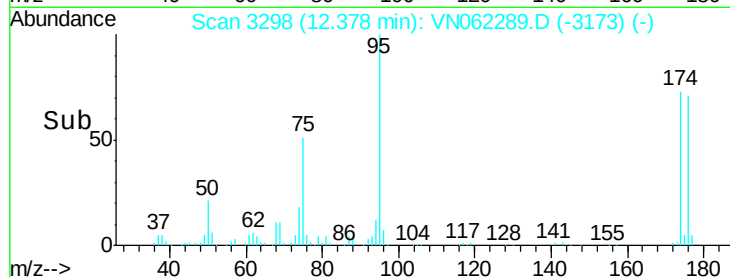
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062289.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062289.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062289.D (-3173) (-)



#95

Naphthalene

Concen: 4.040 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062289.D

Acq: 1 Jul 2020 14:03

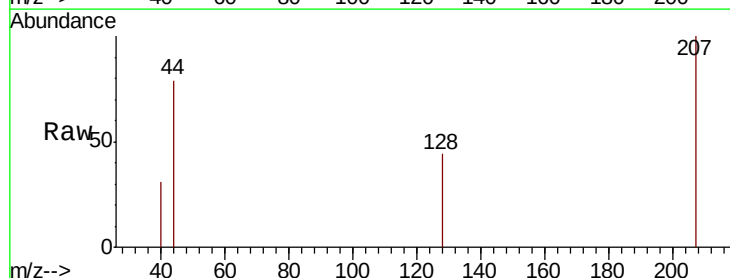
Tgt Ion: 128 Resp: 309

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN062289.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062289.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062289.D (-4053) (-)

