

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062134.D
 Acq On : 26 Jun 2020 13:00
 Operator : JC/MD
 Sample : L3043-19DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200615DL

Quant Time: Jun 27 03:40:59 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	7.62	168	216475	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393424	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	391575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159511	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	143932	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
35) Dibromofluoromethane	7.55	113	122085	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	10.06	98	489534	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
62) 4-Bromofluorobenzene	12.38	95	173249	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	

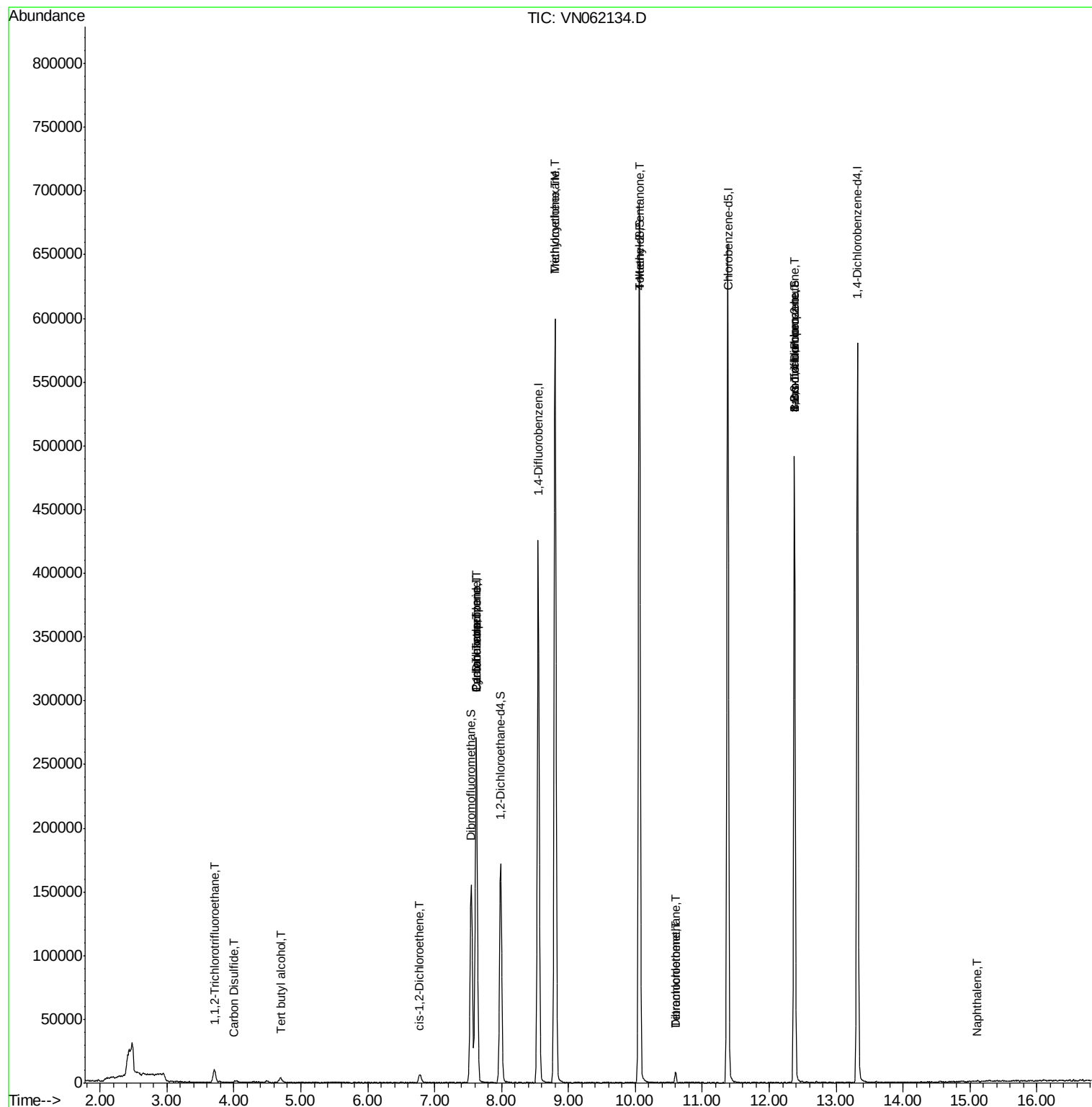
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	187	Below Cal	#	41
9) 1,1,2-Trichlorotrifluoroet	3.71	101	6722	2.703	ug/l	96
11) Tert butyl alcohol	4.70	59	3595	8.242	ug/l #	72
16) Acetone	3.79	43	1136	Below Cal	#	64
17) Carbon Disulfide	4.00	76	1116	0.207	ug/l #	75
27) cis-1,2-Dichloroethene	6.78	96	942	0.296	ug/l	78
31) Cyclohexane	7.62	56	4527	1.079	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	16754	4.237	ug/l #	45
38) Carbon Tetrachloride	7.62	117	21335	5.723	ug/l #	15
39) Methylcyclohexane	8.79	83	2579	0.595	ug/l #	1
44) Trichloroethene	8.80	130	227738	74.903	ug/l	97
51) 4-Methyl-2-Pentanone	10.06	43	1930	0.619	ug/l #	1
60) Dibromochloromethane	10.60	129	1595	0.521	ug/l #	10
64) Tetrachloroethene	10.60	164	2063	0.771	ug/l #	76
71) Bromoform	12.37	173	1607	0.760	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	87216	23.227	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	87216	67.830	ug/l #	13
95) Naphthalene	15.11	128	1132	4.132	ug/l #	69

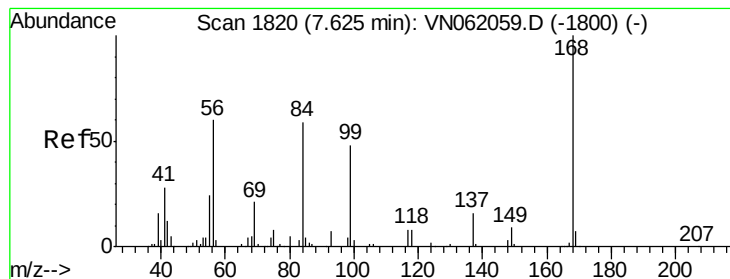
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

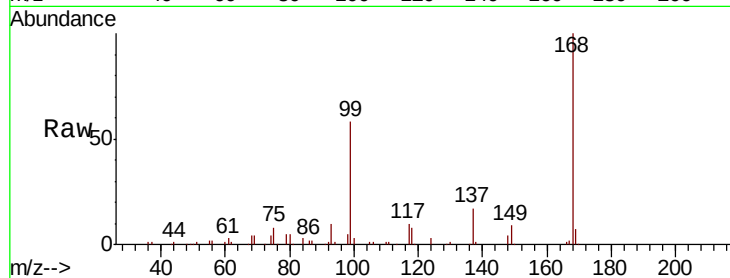
RE120D2-20200615DL

Tot Ion:168 Resp: 216475

Ion Ratio Lower Upper

168 100

99 58.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

100000

80000

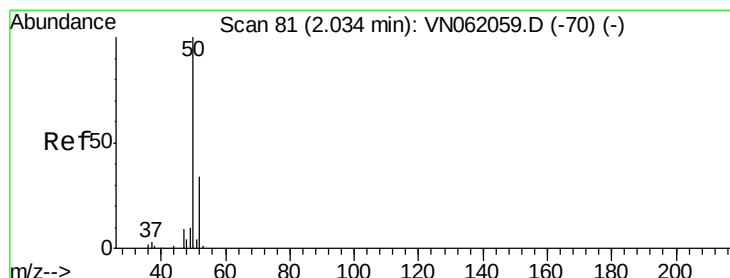
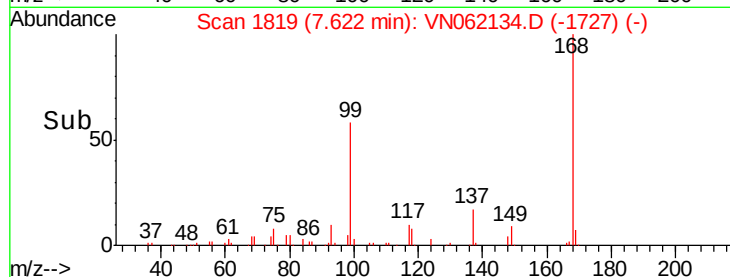
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062134.D

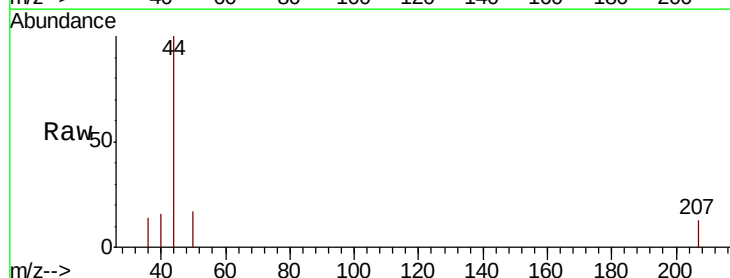
Acq: 26 Jun 2020 13:00

Tgt Ion: 50 Resp: 187

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

2.03

250

200

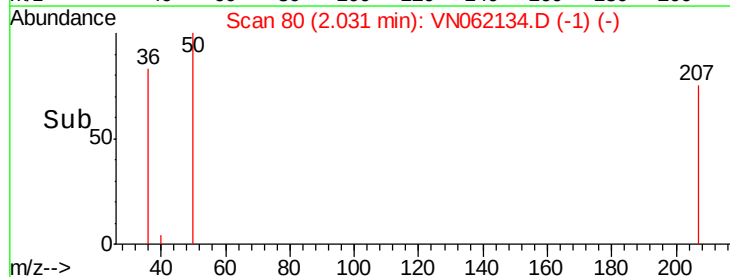
150

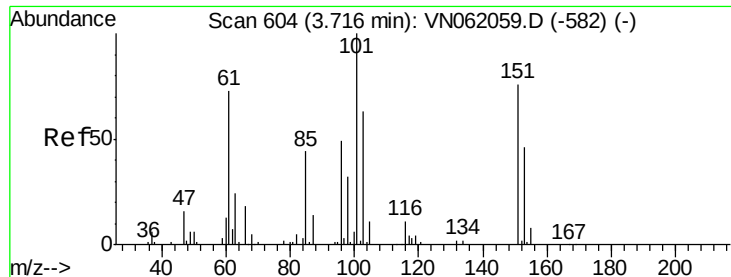
100

50

0

Time--> 2.01 2.02 2.03 2.04





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.703 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615DL

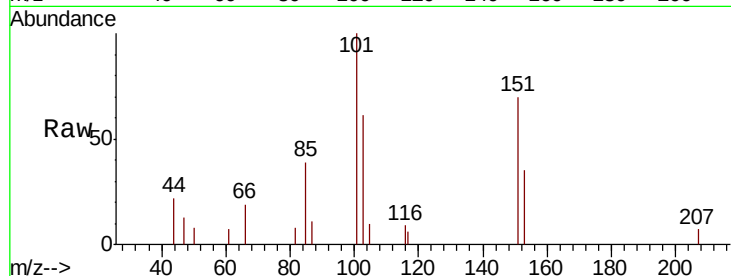
Tot Ion:101 Resp: 6722

Ion Ratio Lower Upper

101 100

85 41.7 34.5 51.7

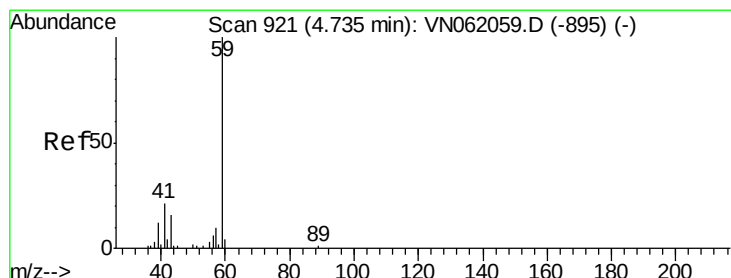
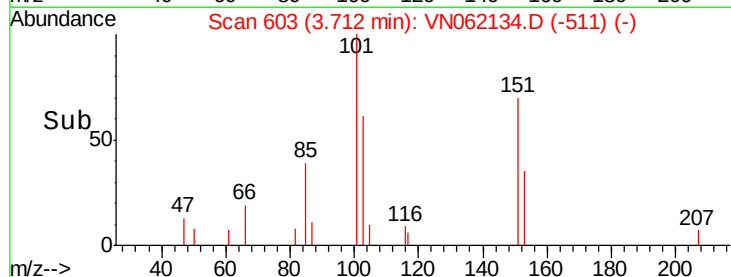
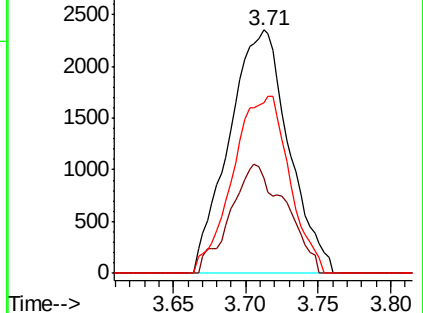
151 68.7 57.8 86.8



Abundance Ion 100.90 (100.60 to 101.60): VN062134.D (-511) (-)

Ion 84.90 (84.60 to 85.60): VN062134.D (-511) (-)

Ion 150.80 (150.50 to 151.50): VN062134.D (-511) (-)



#11

Tert butyl alcohol

Concen: 8.242 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.03 min

Lab File: VN062134.D

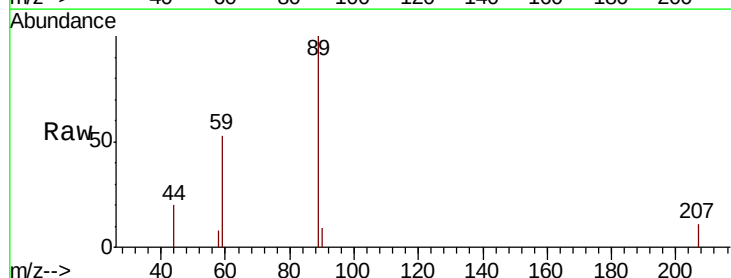
Acq: 26 Jun 2020 13:00

Tgt Ion: 59 Resp: 3595

Ion Ratio Lower Upper

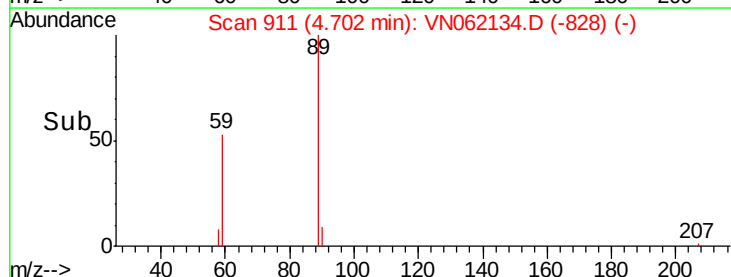
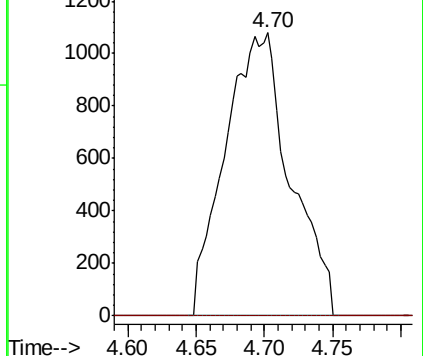
59 100

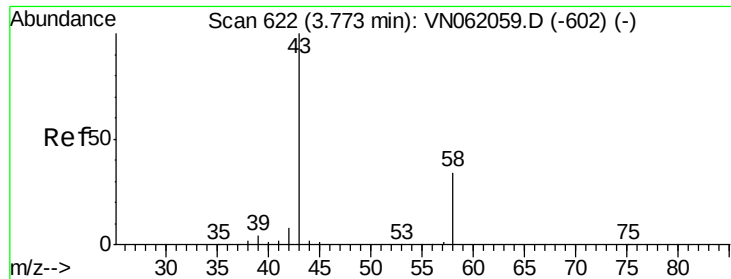
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN062134.D (-828) (-)

Ion 57.00 (56.70 to 57.70): VN062134.D (-828) (-)





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.02 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

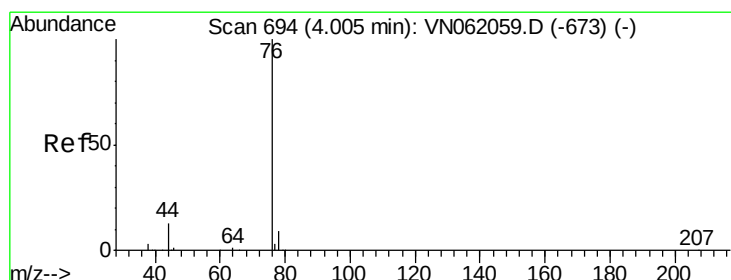
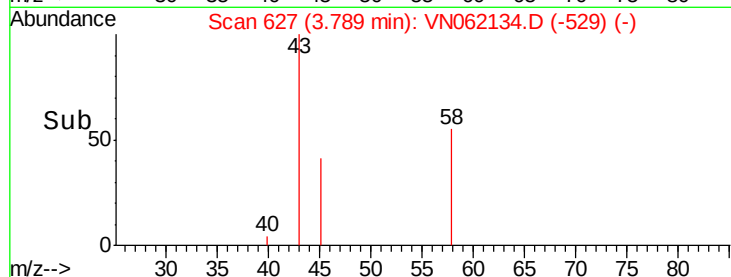
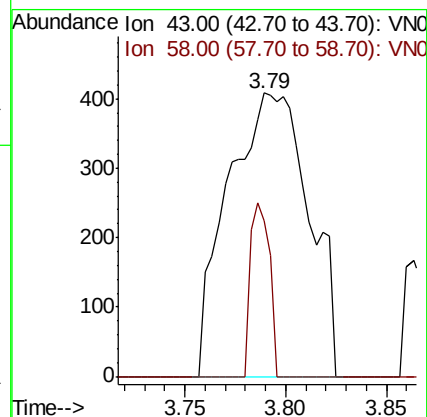
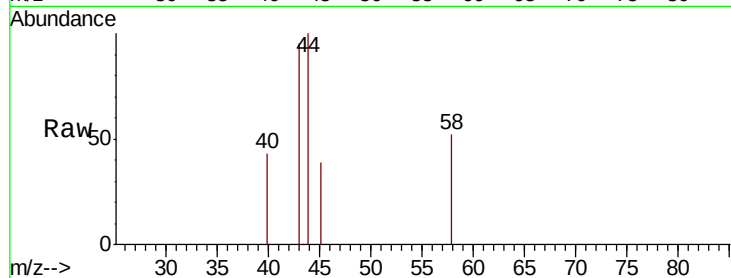
RE120D2-20200615DL

Tot Ion: 43 Resp: 1136

Ion Ratio Lower Upper

43 100

58 55.1 27.5 41.3#



#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.00 min Scan# 691

Delta R.T. -0.01 min

Lab File: VN062134.D

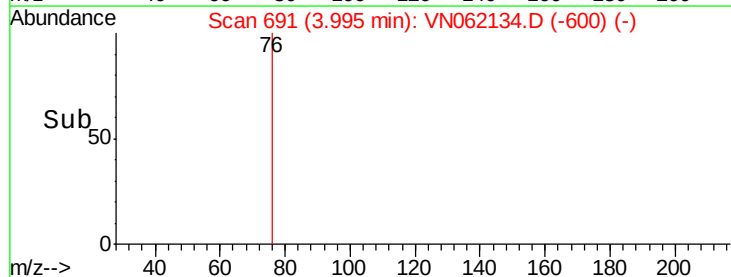
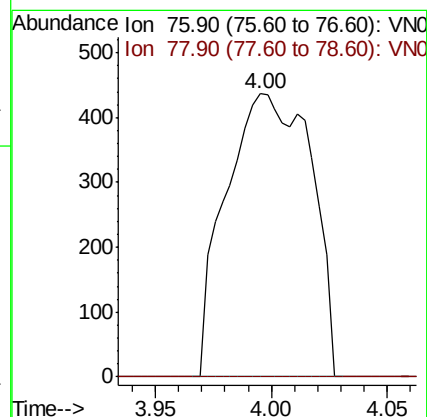
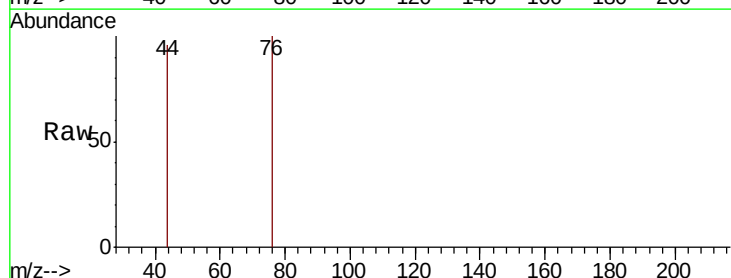
Acq: 26 Jun 2020 13:00

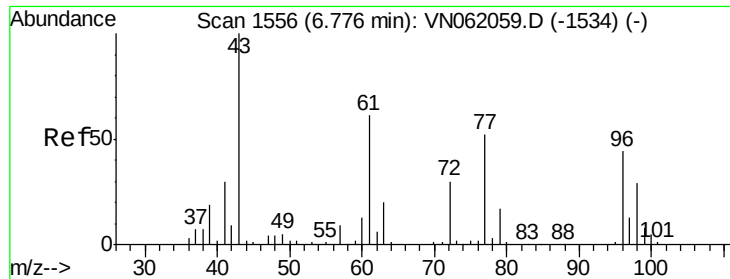
Tgt Ion: 76 Resp: 1116

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#27

cis-1,2-Dichloroethene

Concen: 0.296 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615DL

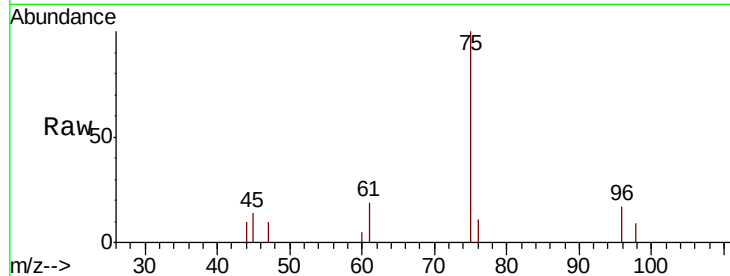
Tot Ion: 96 Resp: 942

Ion Ratio Lower Upper

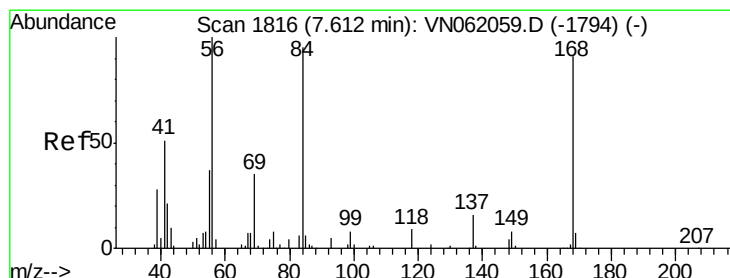
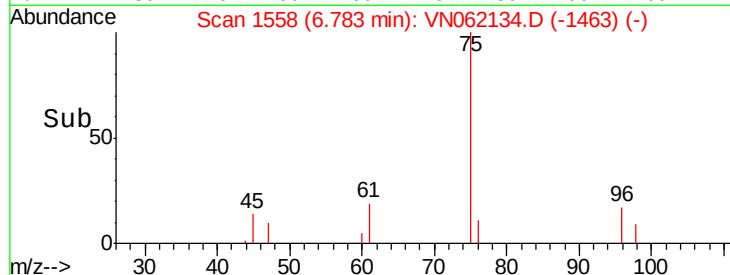
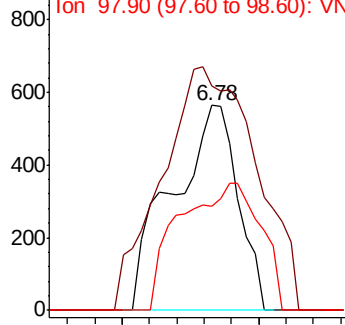
96 100

61 170.2 0.0 280.4

98 76.6 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN062134.D (-1723) (-)



#31

Cyclohexane

Concen: 1.079 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

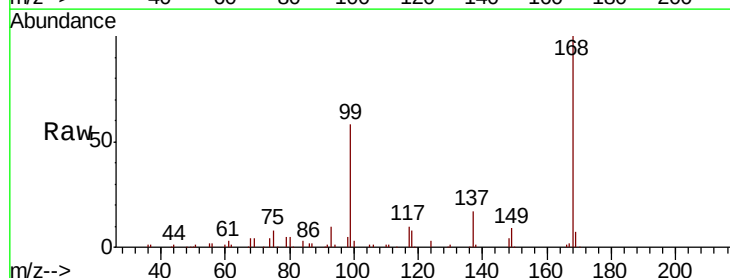
Tgt Ion: 56 Resp: 4527

Ion Ratio Lower Upper

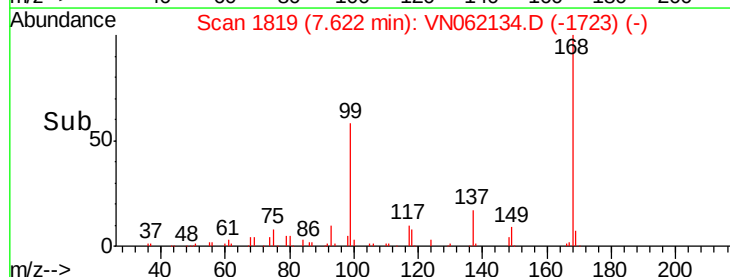
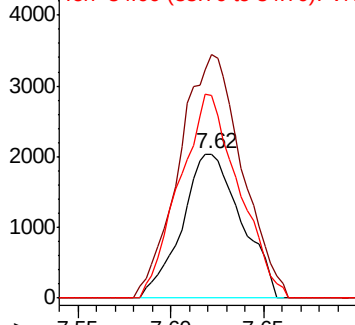
56 100

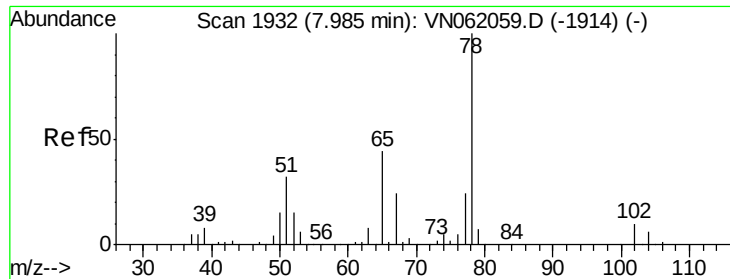
69 169.0 28.0 42.0#

84 140.4 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062134.D (-1723) (-)

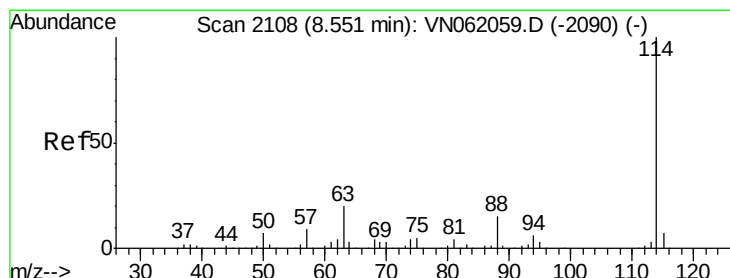
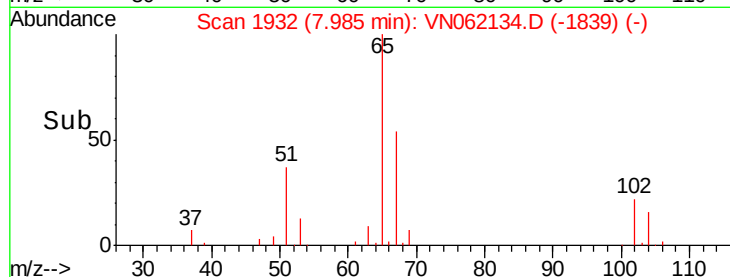
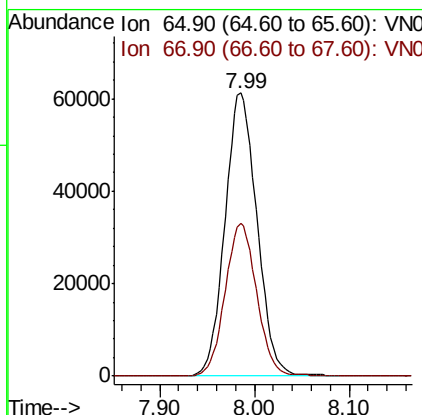
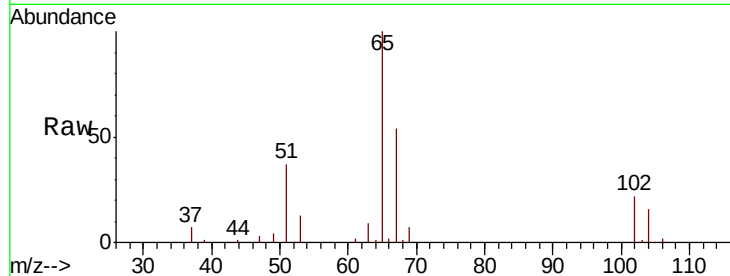




#33
 1,2-Dichloroethane-d4
 Concen: 47.379 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062134.D
 Acq: 26 Jun 2020 13:00

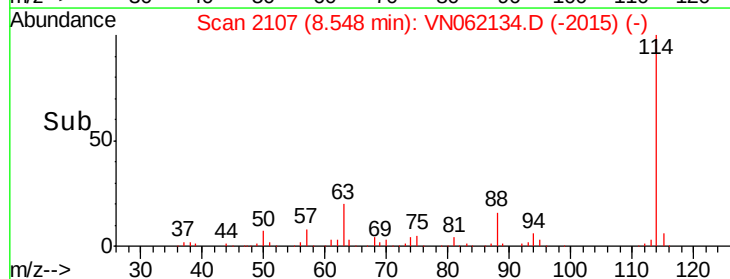
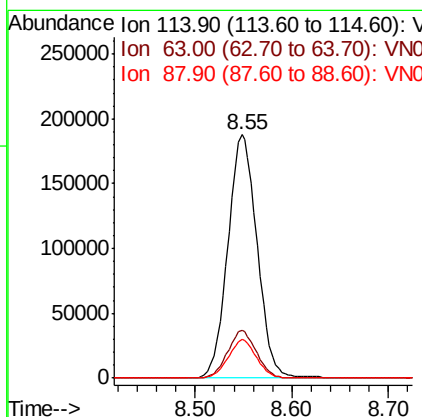
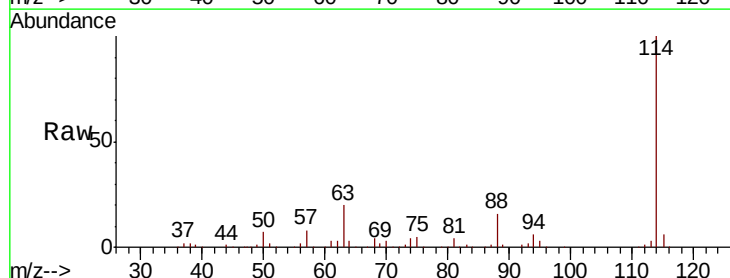
Instrument :
 MSVOA_N
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 RE120D2-20200615DL

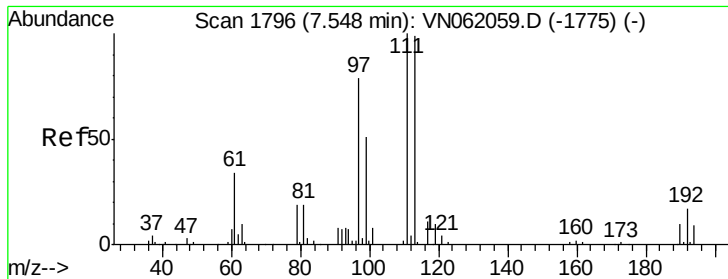
Tot Ion: 65 Resp: 143932
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN062134.D
 Acq: 26 Jun 2020 13:00

Tgt Ion: 114 Resp: 393424
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.2
 88 15.8 0.0 30.8

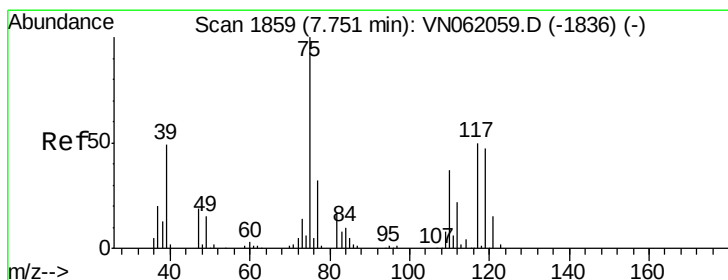
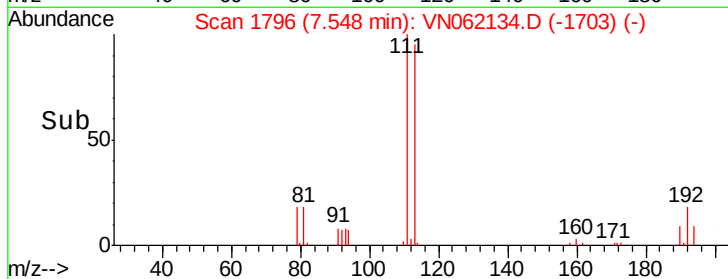
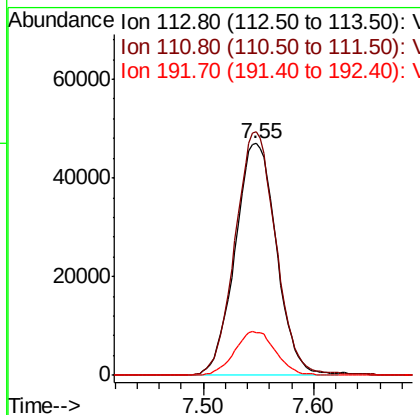
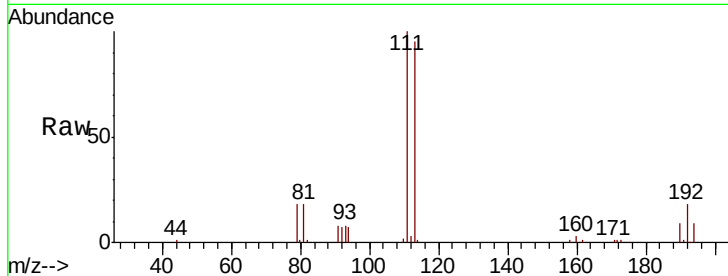




#35
 Dibromofluoromethane
 Concen: 48.370 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062134.D
 Acq: 26 Jun 2020 13:00

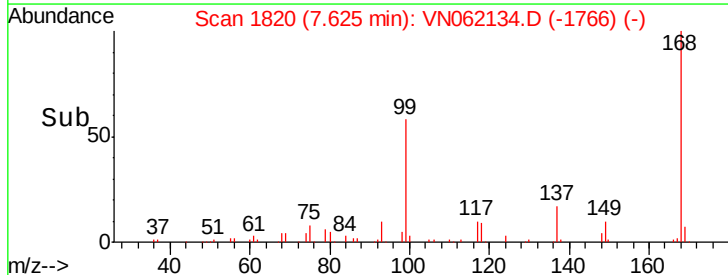
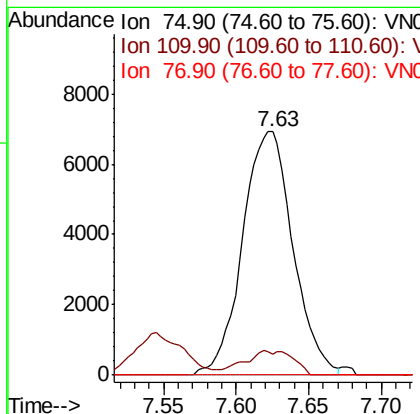
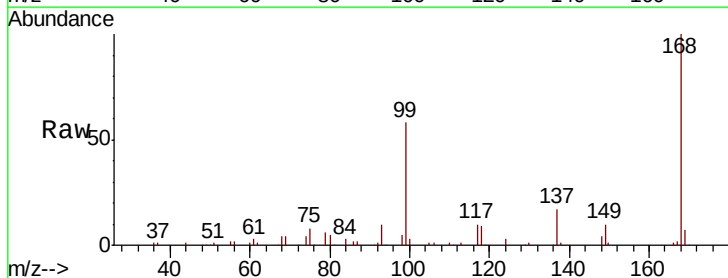
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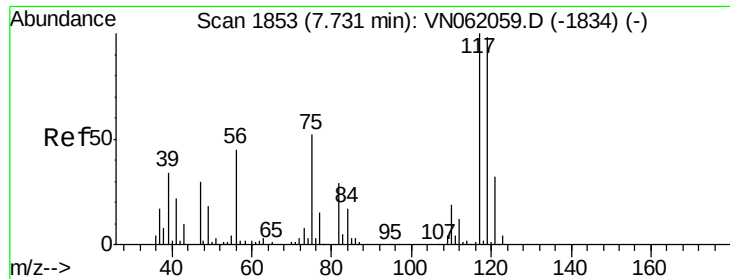
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	18.9	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.237 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062134.D
 Acq: 26 Jun 2020 13:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.9	17.9	53.8#
77	0.0	24.9	37.3#

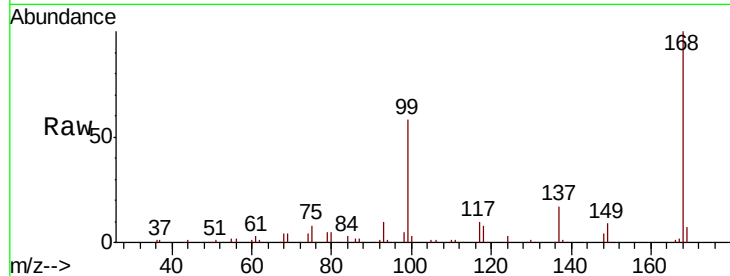




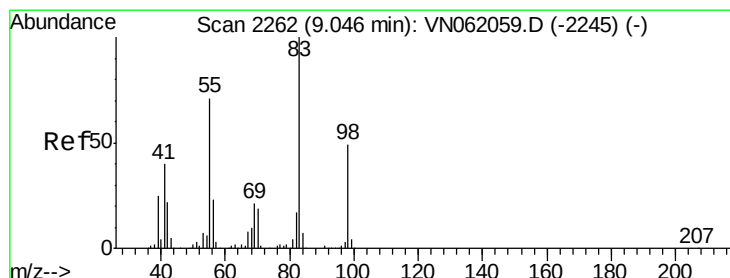
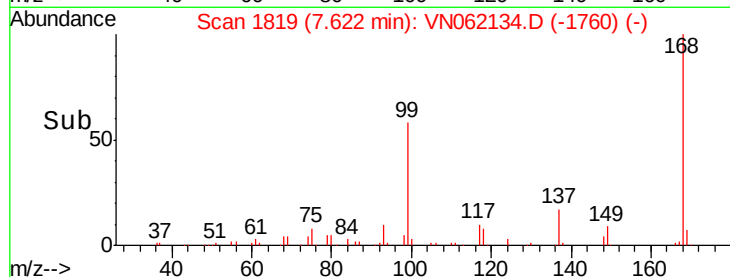
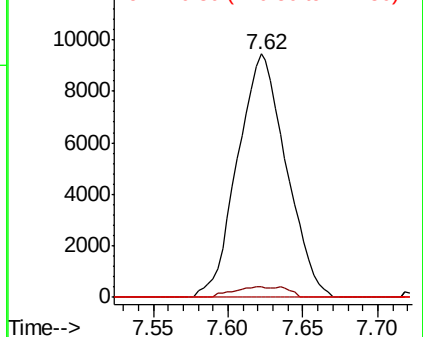
#38
Carbon Tetrachloride
Concen: 5.723 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200615DL

Tot Ion:117 Resp: 21335
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 25.8 38.6#

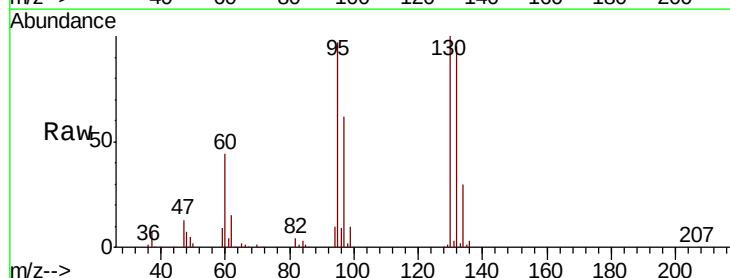


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

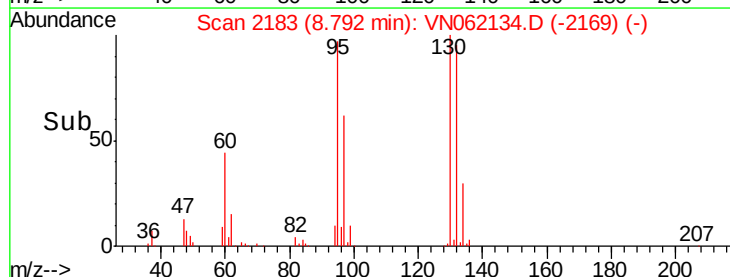
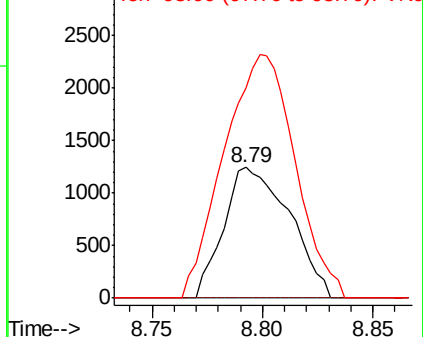


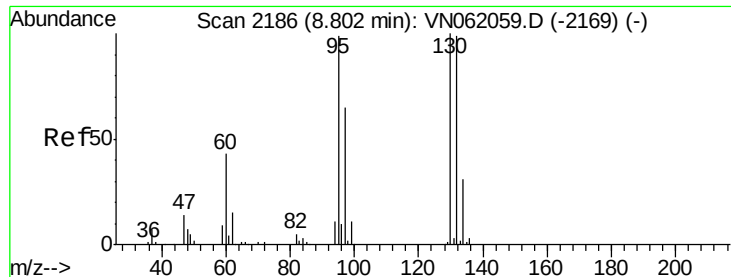
#39
Methylcyclohexane
Concen: 0.595 ug/l
RT: 8.79 min Scan# 2183
Delta R.T. -0.25 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

Tgt Ion: 83 Resp: 2579
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 148.1 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: 74.903 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

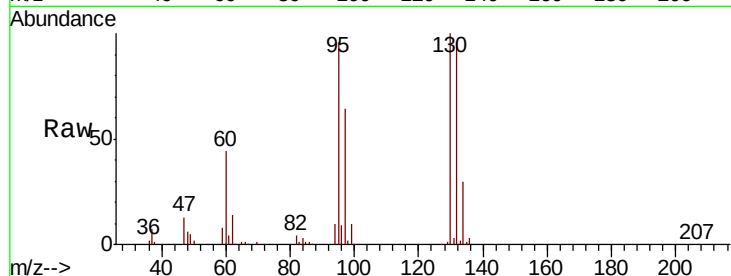
RE120D2-20200615DL

Tot Ion:130 Resp: 227738

Ion Ratio Lower Upper

130 100

95 96.1 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN062059.D (-2169) (-)

Ion 94.90 (94.60 to 95.60): VN062059.D (-2169) (-)

8.80

120000

100000

80000

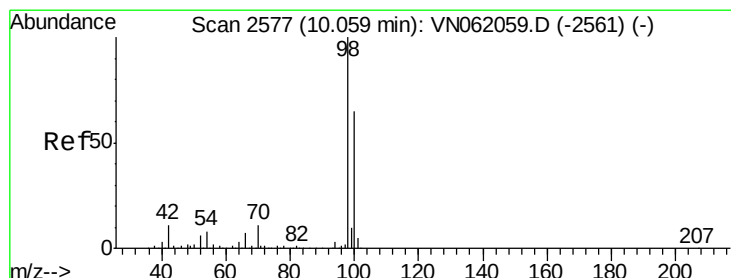
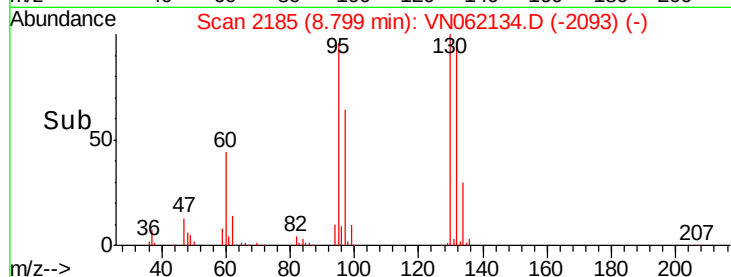
60000

40000

20000

0

Time-->



#50

Toluene-d8

Concen: 48.520 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062134.D

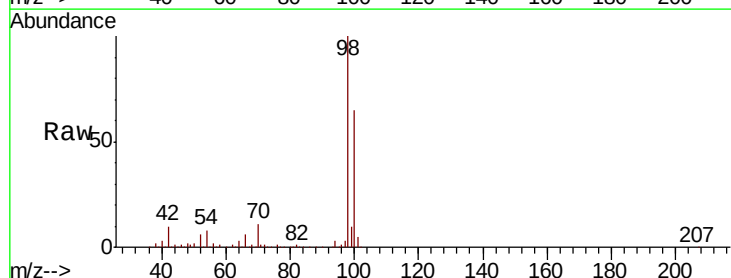
Acq: 26 Jun 2020 13:00

Tgt Ion: 98 Resp: 489534

Ion Ratio Lower Upper

98 100

100 65.8 51.2 76.8



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

Ion 100.00 (99.70 to 100.70): VN062059.D (-2561) (-)

10.06

300000

250000

200000

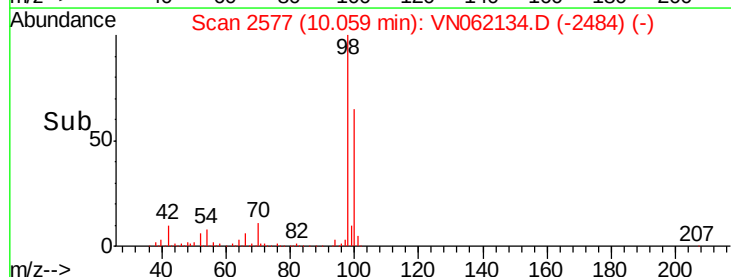
150000

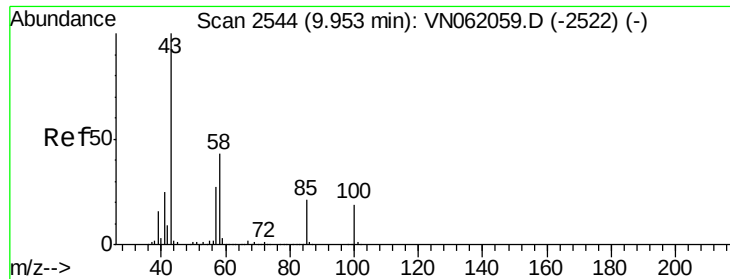
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.619 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

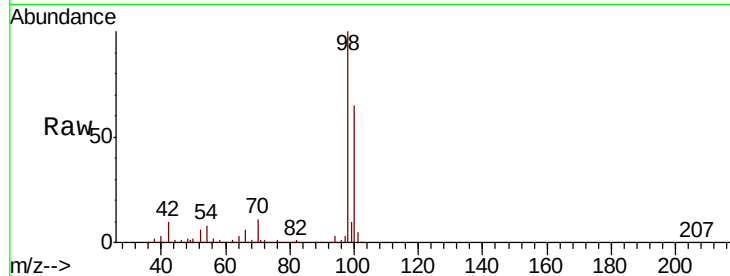
RE120D2-20200615DL

Tot Ion: 43 Resp: 1930

Ion Ratio Lower Upper

43 100

58 195.3 34.2 51.2#



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

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)

2500

2000

1500

1000

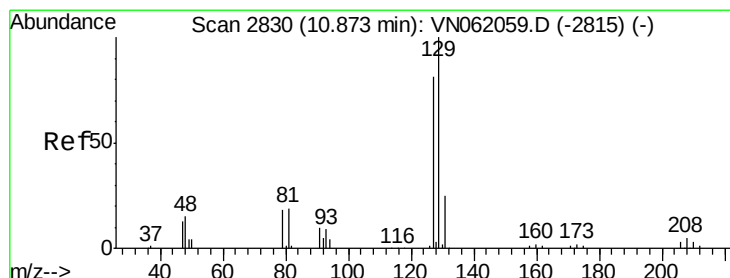
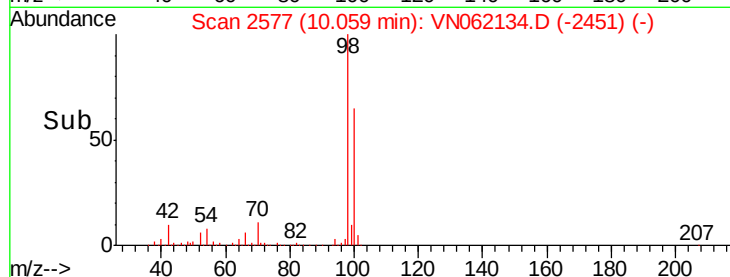
500

0

10.00

10.05

10.10



#60

Dibromochloromethane

Concen: 0.521 ug/l

RT: 10.60 min Scan# 2744

Delta R.T. -0.28 min

Lab File: VN062134.D

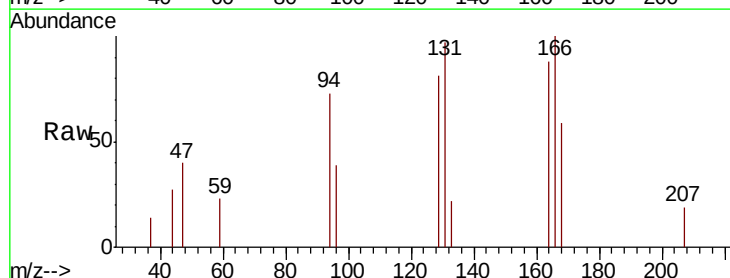
Acq: 26 Jun 2020 13:00

Tgt Ion: 129 Resp: 1595

Ion Ratio Lower Upper

129 100

127 0.0 39.5 118.5#



Abundance Ion 128.80 (128.50 to 129.50): VN062059.D (-2815) (-)

Ion 126.80 (126.50 to 127.50): VN062059.D (-2815) (-)

1000

800

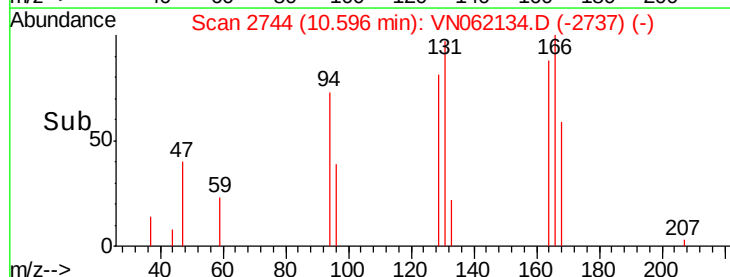
600

400

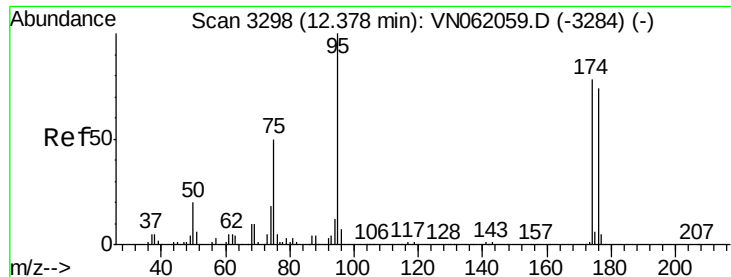
200

0

10.60



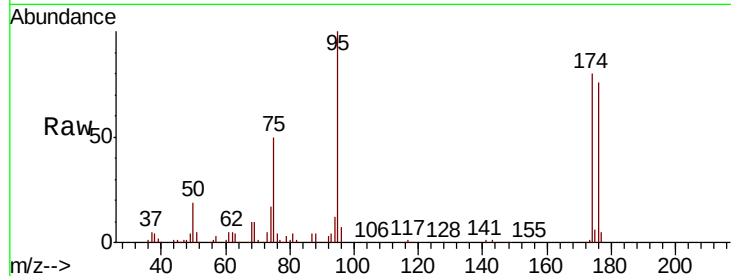
Time-->



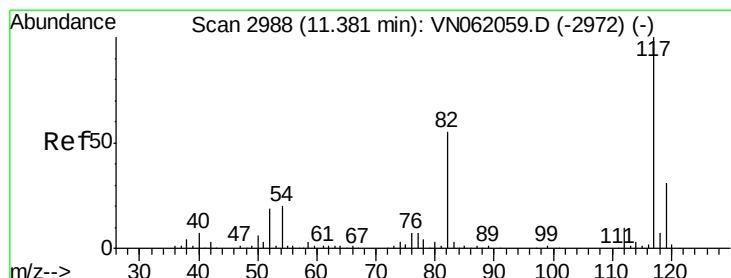
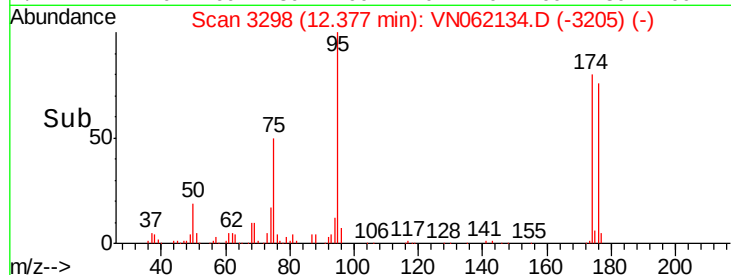
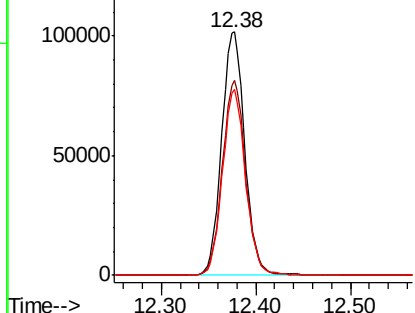
#62
4-Bromofluorobenzene
Concen: 50.825 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200615DL

Tot Ion: 95 Resp: 173249
Ion Ratio Lower Upper
95 100
174 79.8 0.0 154.8
176 75.9 0.0 147.4

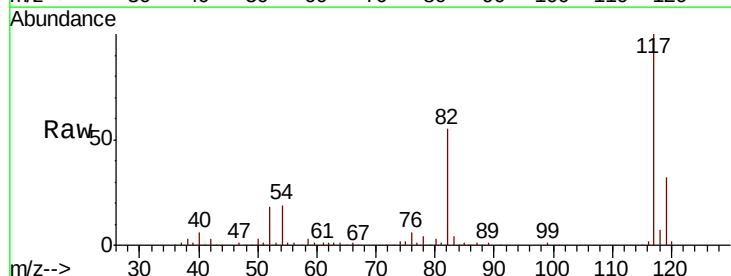


Abundance Ion 94.90 (94.60 to 95.60): VN062134.D (-3205) (-)
Ion 173.80 (173.50 to 174.50): VN062134.D (-3205) (-)
Ion 175.80 (175.50 to 176.50): VN062134.D (-3205) (-)

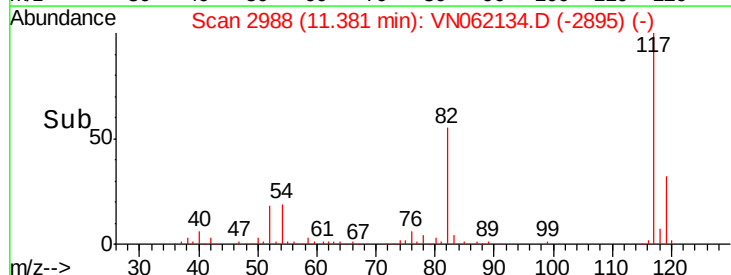
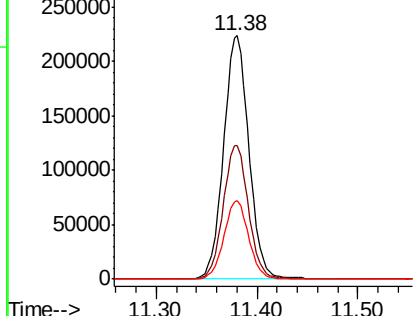


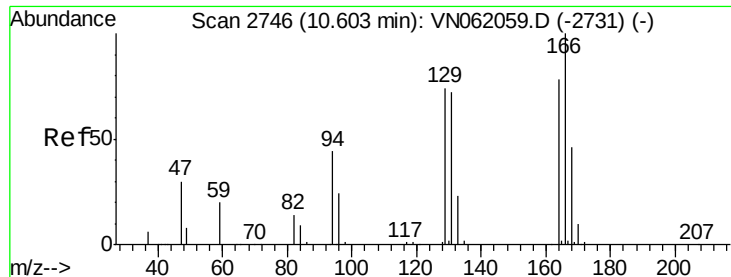
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

Tgt Ion: 117 Resp: 391575
Ion Ratio Lower Upper
117 100
82 55.0 43.8 65.8
119 32.2 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062134.D (-2895) (-)
Ion 82.00 (81.70 to 82.70): VN062134.D (-2895) (-)
Ion 118.90 (118.60 to 119.60): VN062134.D (-2895) (-)

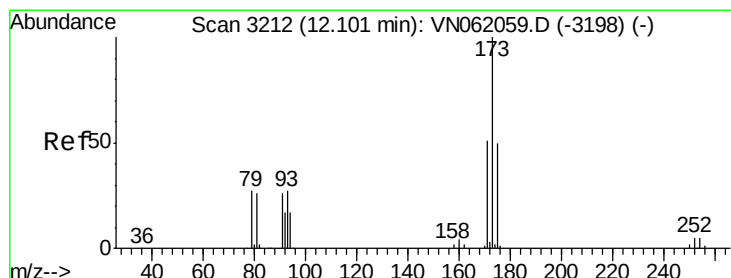
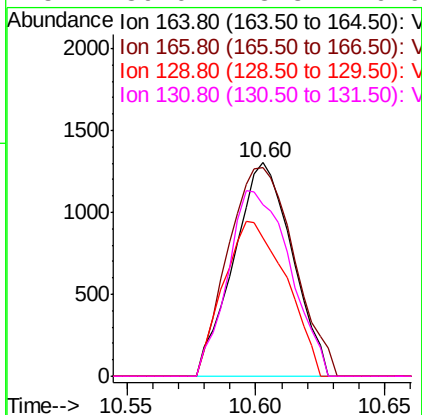
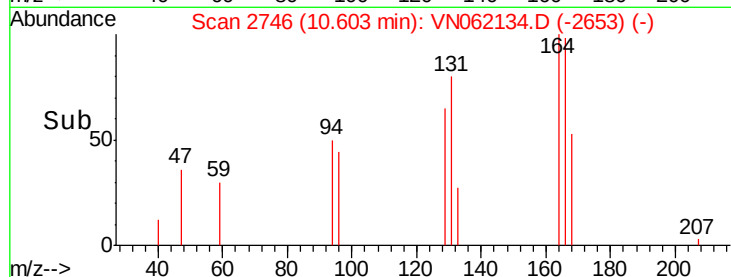
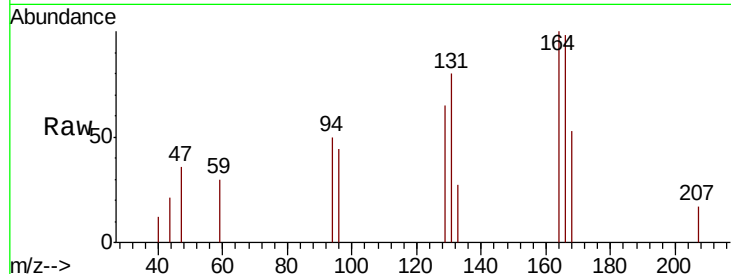




#64
Tetrachloroethene
Concen: 0.771 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. -0.00 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

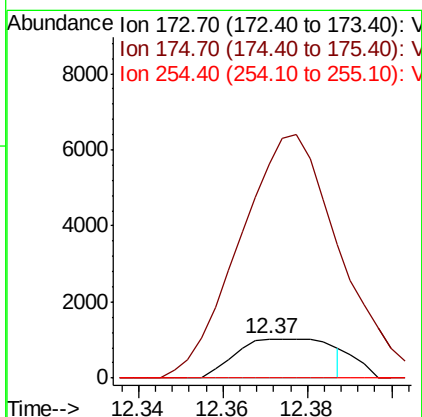
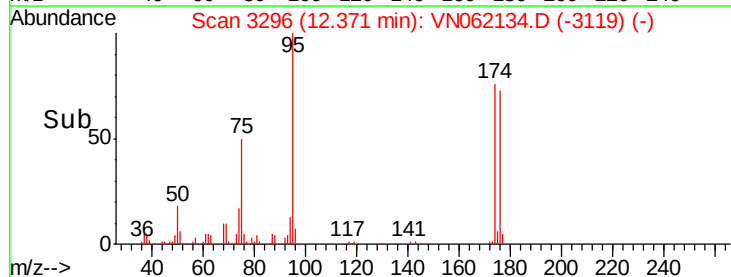
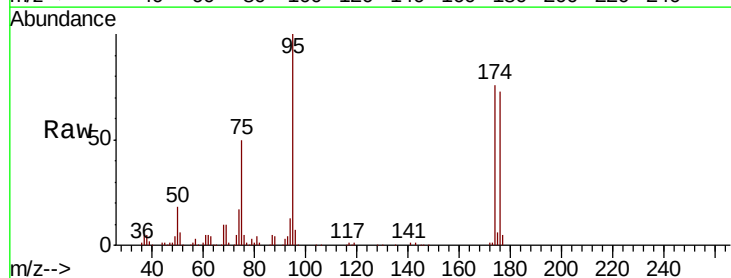
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200615DL

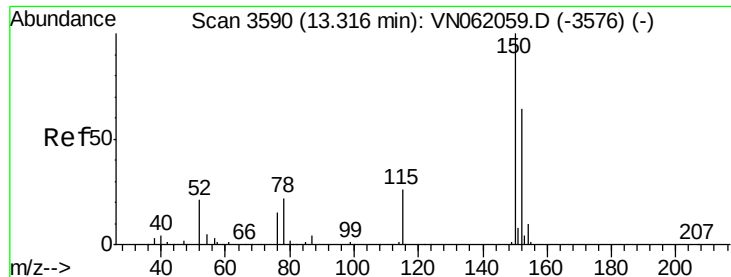
Tot Ion:164 Resp: 2063
Ion Ratio Lower Upper
164 100
166 97.9 102.9 154.3#
129 65.0 75.8 113.8#
131 80.0 73.8 110.6



#71
Bromoform
Concen: 0.760 ug/l
RT: 12.37 min Scan# 3296
Delta R.T. 0.27 min
Lab File: VN062134.D
Acq: 26 Jun 2020 13:00

Tgt Ion:173 Resp: 1607
Ion Ratio Lower Upper
173 100
175 568.3 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615DL

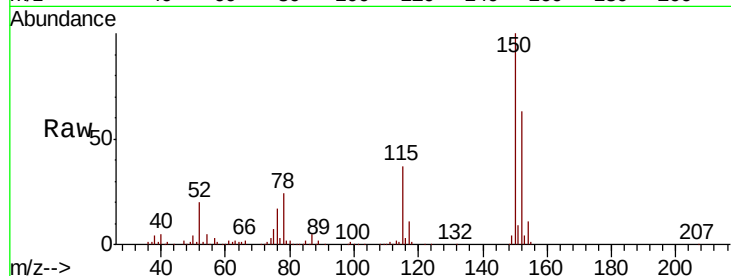
Tot Ion:152 Resp: 159511

Ion Ratio Lower Upper

152 100

115 58.8 29.5 88.5

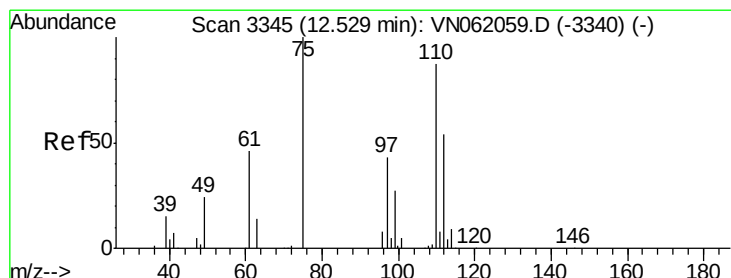
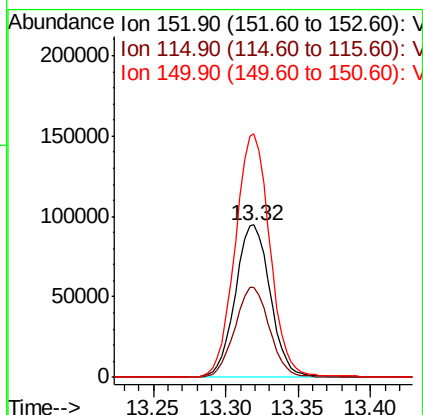
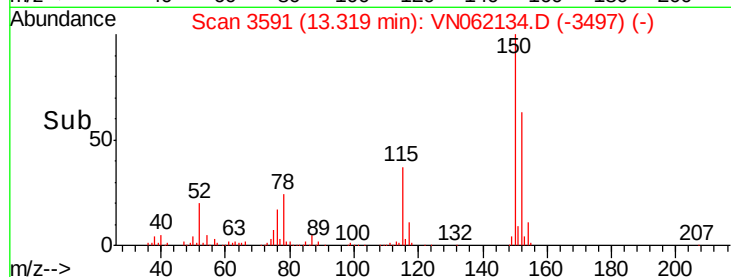
150 157.6 0.0 351.4



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



#76

1,2,3-Trichloropropane

Concen: 23.227 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN062134.D

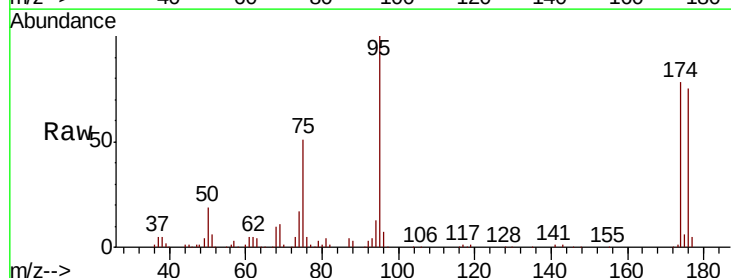
Acq: 26 Jun 2020 13:00

Tgt Ion: 75 Resp: 87216

Ion Ratio Lower Upper

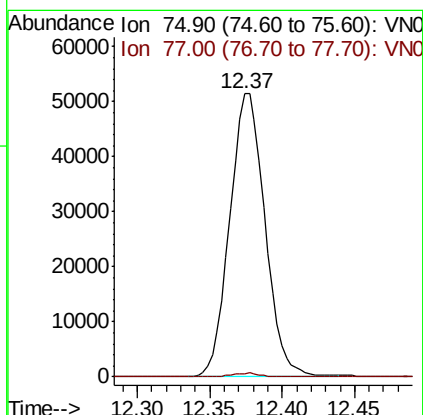
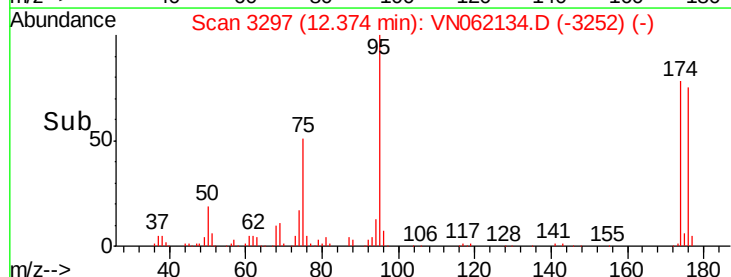
75 100

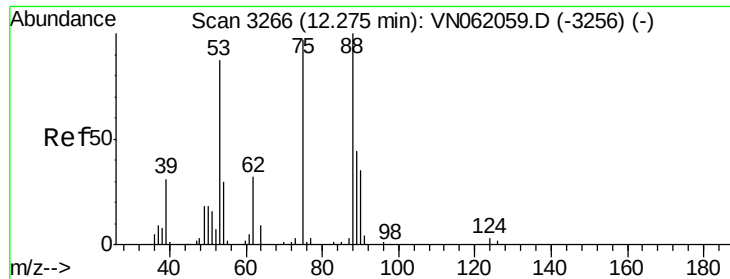
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.830 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615DL

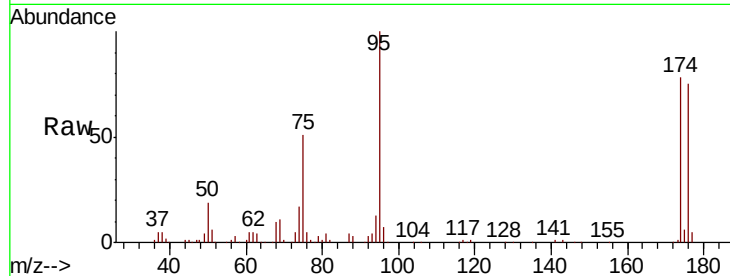
Tot Ion: 75 Resp: 87216

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

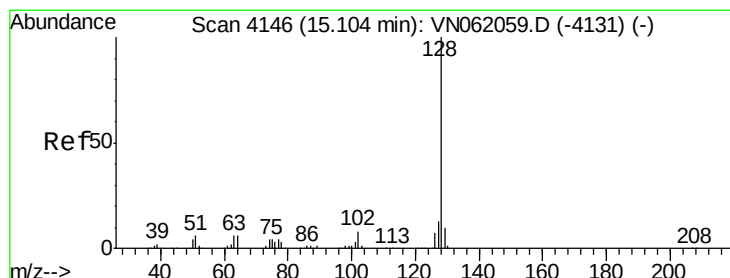
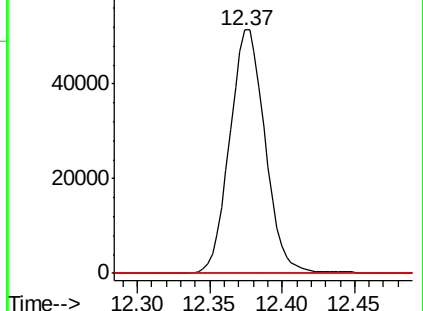
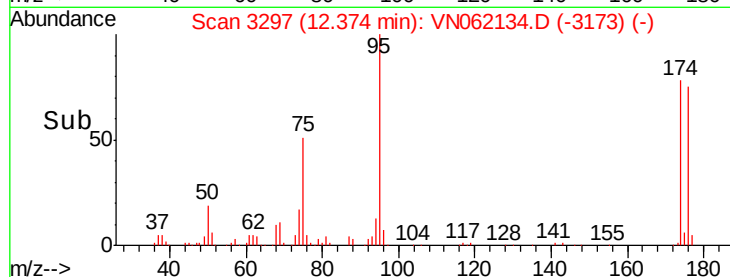
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062134.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062134.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062134.D (-3173) (-)



#95

Naphthalene

Concen: 4.132 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062134.D

Acq: 26 Jun 2020 13:00

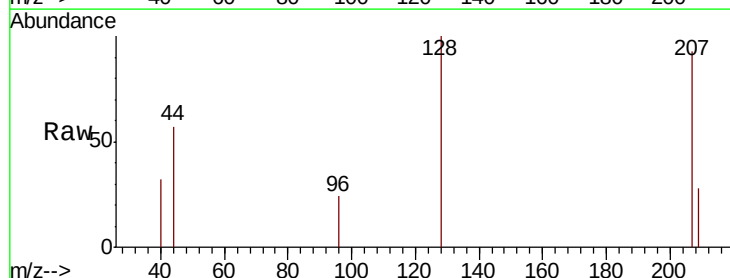
Tgt Ion: 128 Resp: 1132

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): VN062134.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062134.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062134.D (-4053) (-)

