

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063601.D
 Acq On : 23 Sep 2020 20:06
 Operator : JC/MD
 Sample : L4083-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200917

Quant Time: Sep 24 02:37:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	383606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	386877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166284	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	177190	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
35) Dibromofluoromethane	7.55	113	125689	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	10.06	98	493800	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.38	95	194288	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	

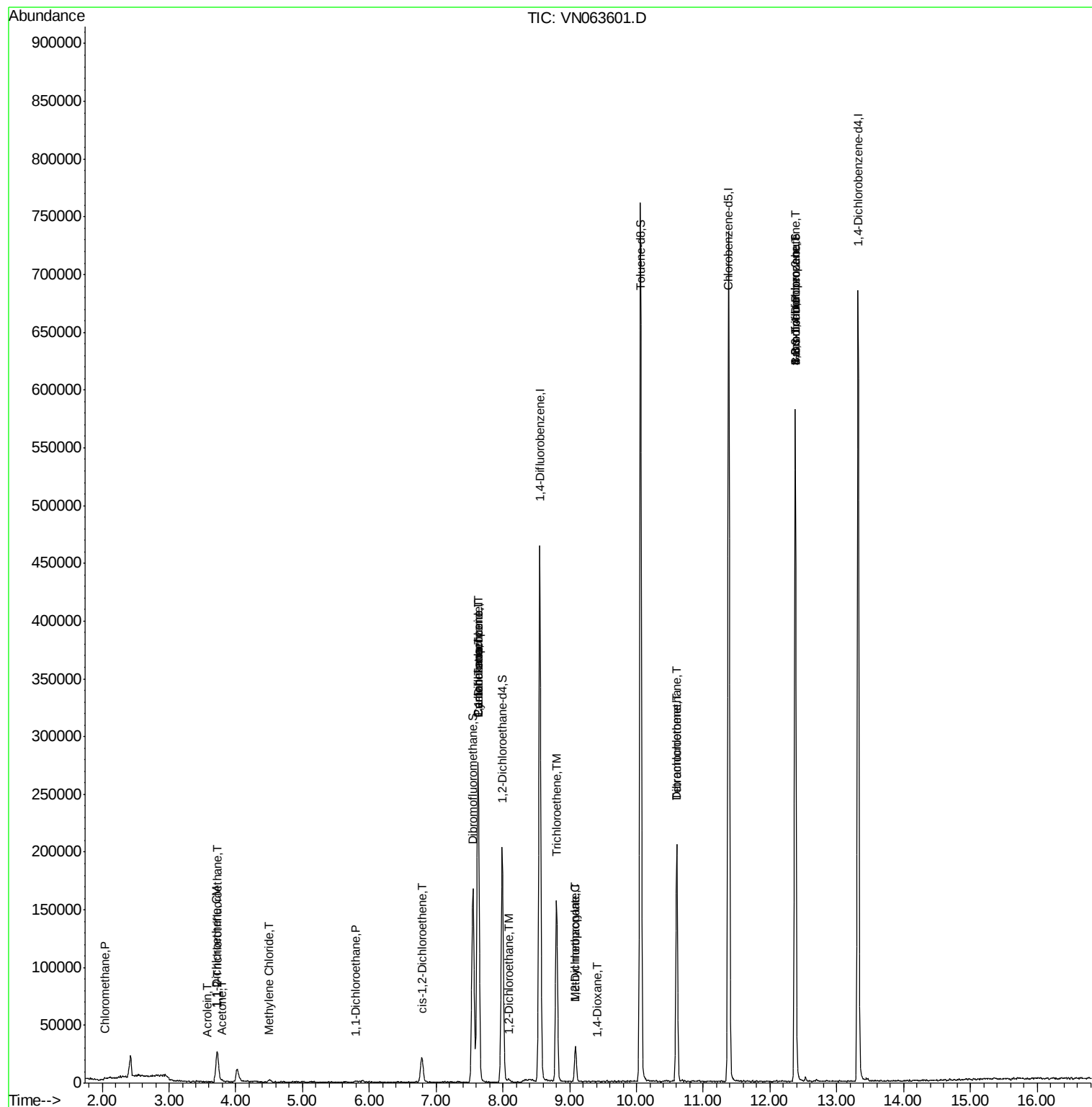
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1064	0.346	ug/l #	68
9) 1,1,2-Trichlorotrifluoroet	3.72	101	14712	6.444	ug/l	95
12) 1,1-Dichloroethene	3.71	96	1513	0.654	ug/l #	75
13) Acrolein	3.58	56	71	0.396	ug/l #	13
16) Acetone	3.78	43	2680	2.391	ug/l #	80
20) Methylene Chloride	4.50	84	751	0.264	ug/l #	75
24) 1,1-Dichloroethane	5.80	63	1855	0.364	ug/l #	84
27) cis-1,2-Dichloroethene	6.79	96	13102	4.518	ug/l	88
31) Cyclohexane	7.63	56	6103	1.267	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	20108	4.920	ug/l #	51
38) Carbon Tetrachloride	7.63	117	22509	5.396	ug/l #	17
42) 1,2-Dichloroethane	8.09	62	1663	0.354	ug/l #	78
44) Trichloroethene	8.80	130	51713	18.276	ug/l	99
45) 1,2-Dichloropropane	9.09	63	11382	3.582	ug/l	97
48) Methyl methacrylate	9.09	41	7604	2.158	ug/l #	39
49) 1,4-Dioxane	9.41	88	29	0.573	ug/l #	1
60) Dibromochloromethane	10.60	129	40984	13.021	ug/l #	10
64) Tetrachloroethene	10.60	164	43284	16.431	ug/l	97
71) Bromoform	12.37	173	793	0.354	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	107729	26.175	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107729	71.761	ug/l #	7

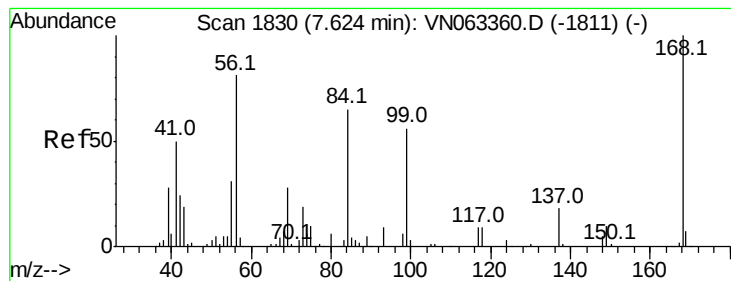
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092320\
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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

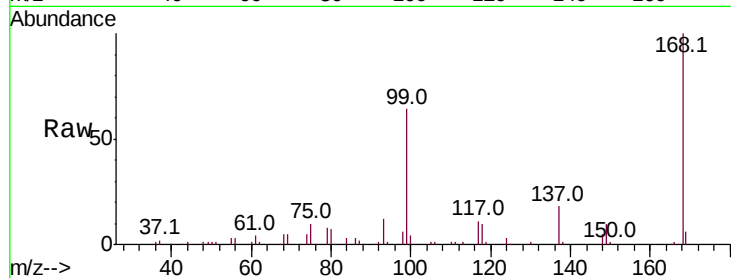
RE135D3-20200917

Tot Ion:168 Resp: 204914

Ion Ratio Lower Upper

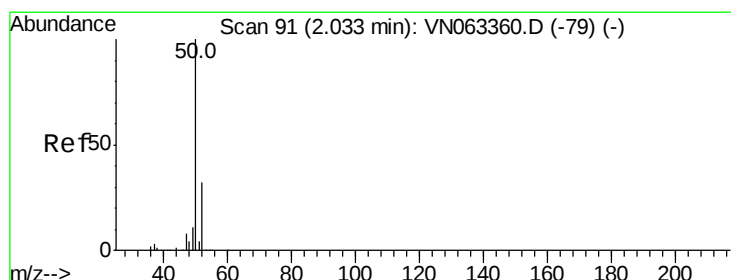
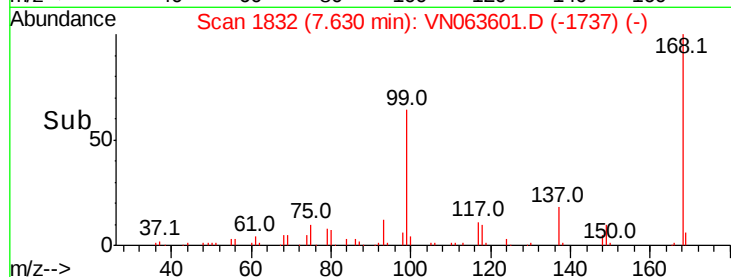
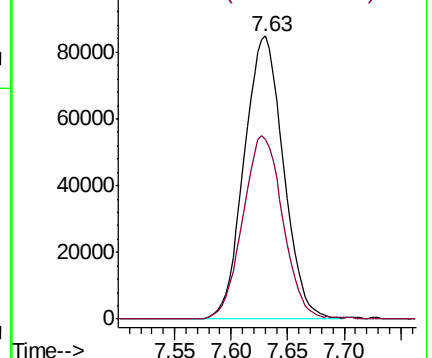
168 100

99 63.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.346 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063601.D

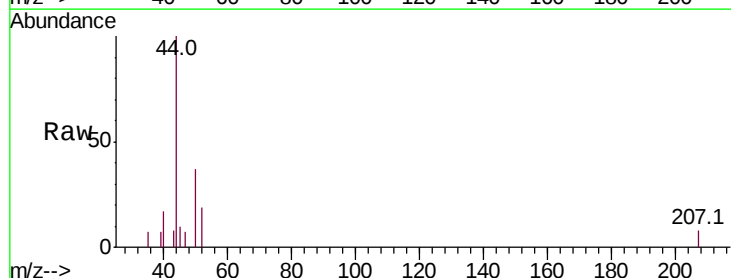
Acq: 23 Sep 2020 20:06

Tgt Ion: 50 Resp: 1064

Ion Ratio Lower Upper

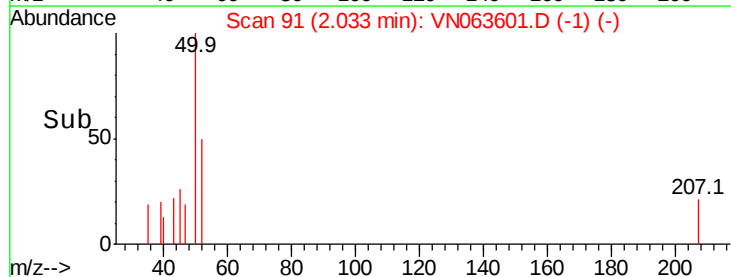
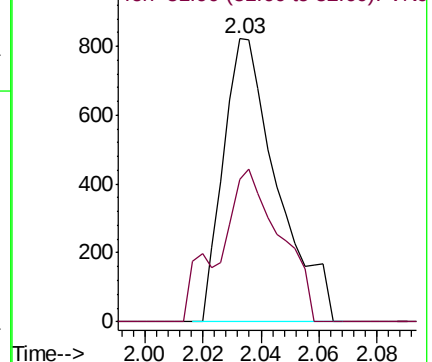
50 100

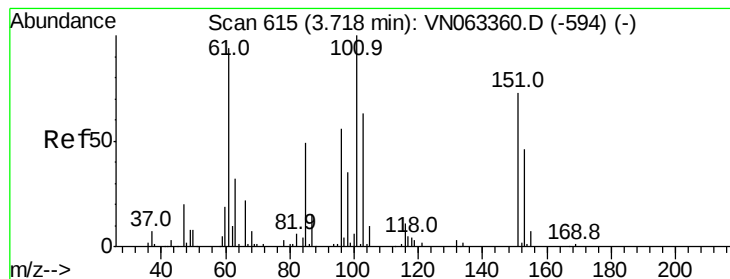
52 50.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.444 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

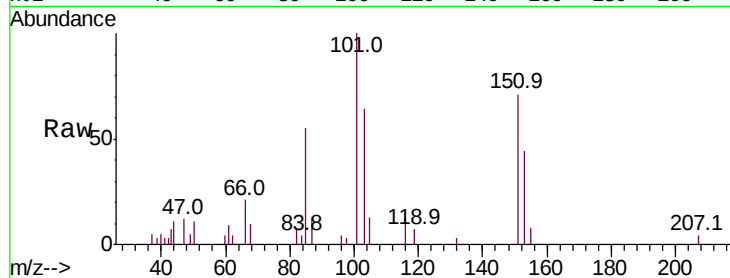
Tot Ion:101 Resp: 14712

Ion Ratio Lower Upper

101 100

85 52.6 37.7 56.5

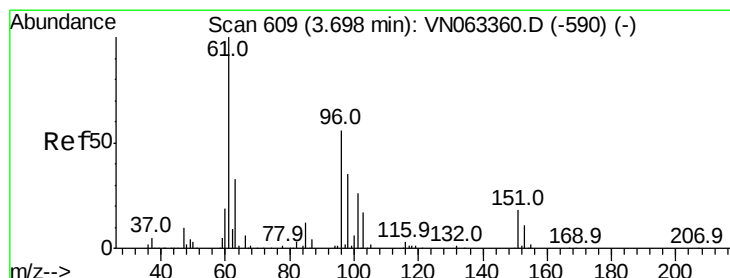
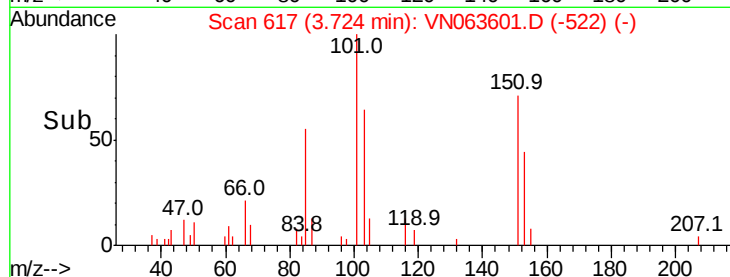
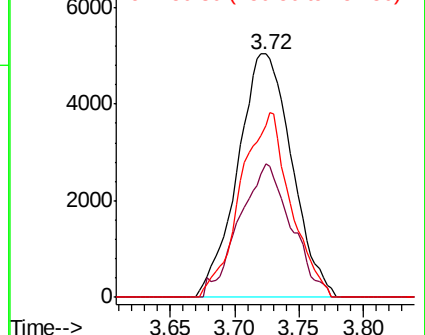
151 70.1 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.654 ug/l

RT: 3.71 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

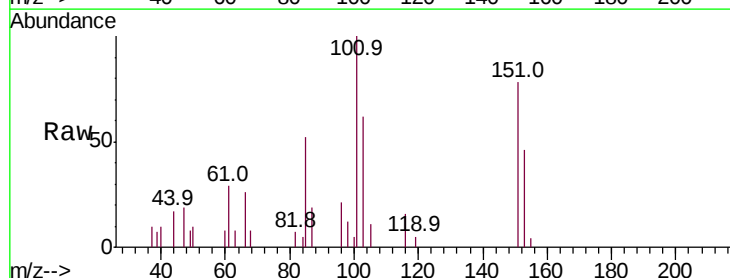
Tgt Ion: 96 Resp: 1513

Ion Ratio Lower Upper

96 100

61 134.6 143.4 215.2#

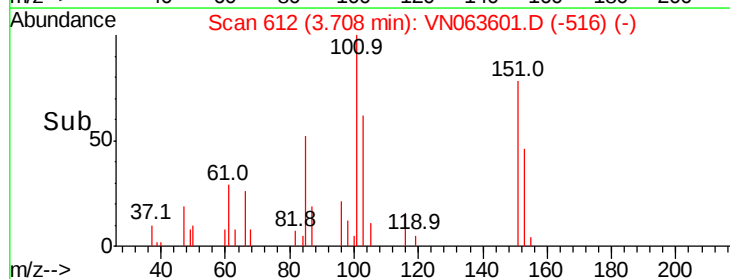
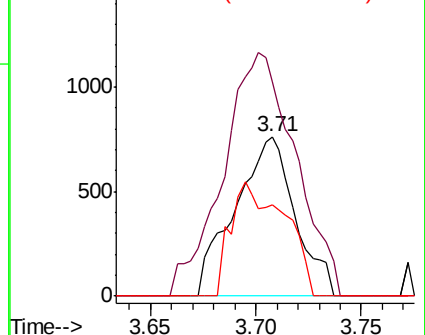
98 57.0 50.6 76.0

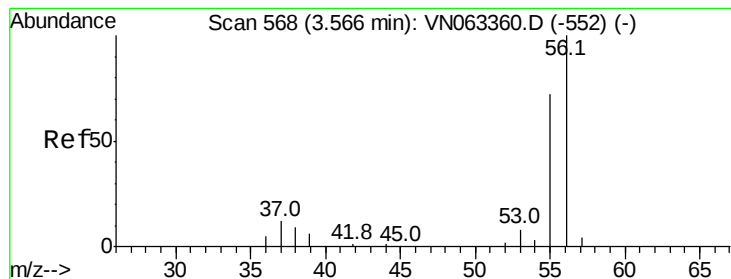


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 0.396 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

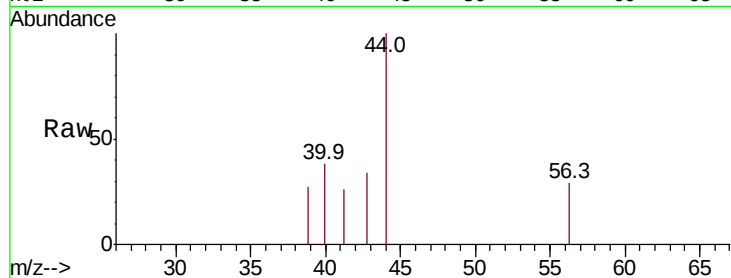
RE135D3-20200917

Tot Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.58

200

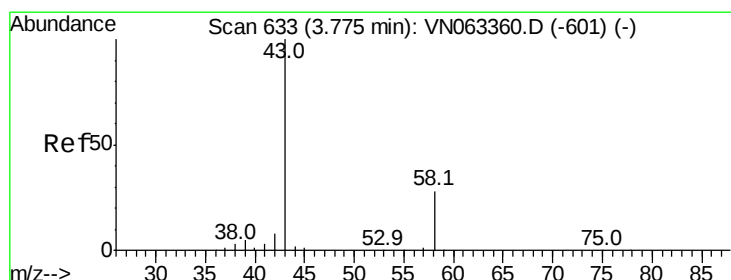
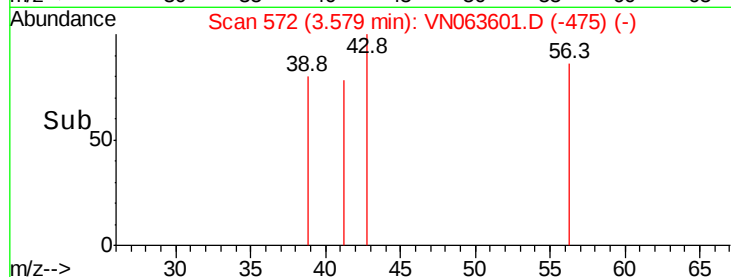
150

100

50

0

Time-->



#16

Acetone

Concen: 2.391 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063601.D

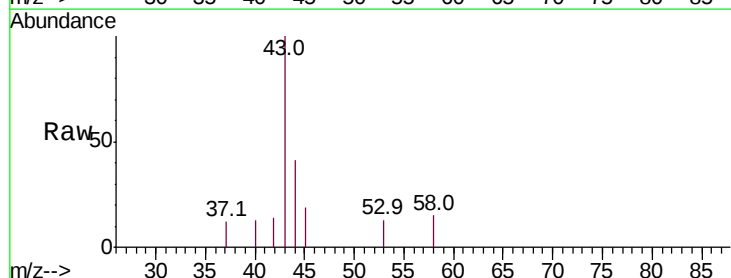
Acq: 23 Sep 2020 20:06

Tgt Ion: 43 Resp: 2680

Ion Ratio Lower Upper

43 100

58 17.4 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

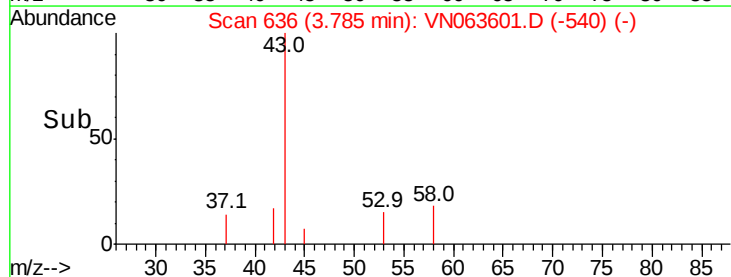
1500

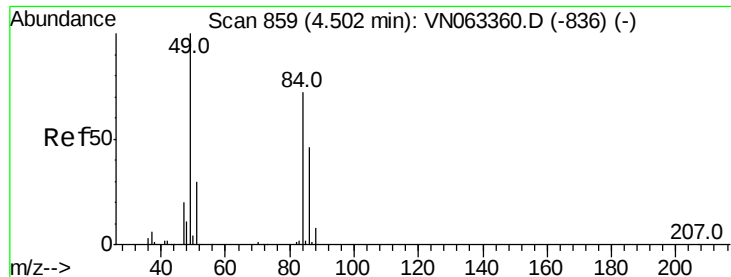
1000

500

0

Time-->

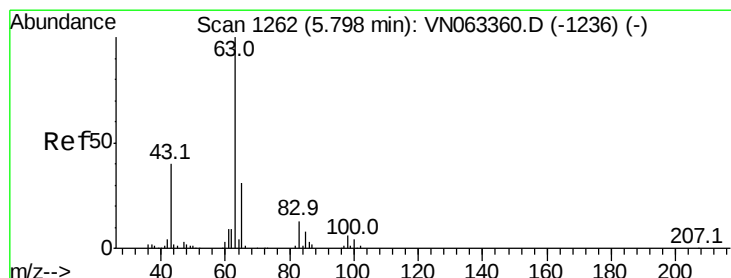
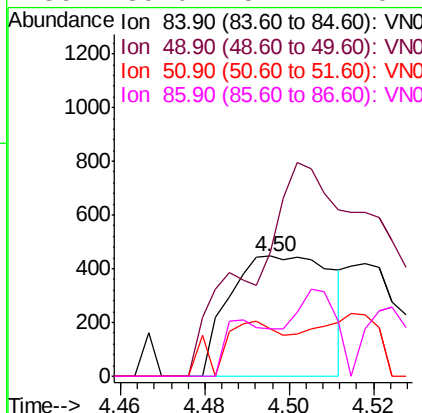
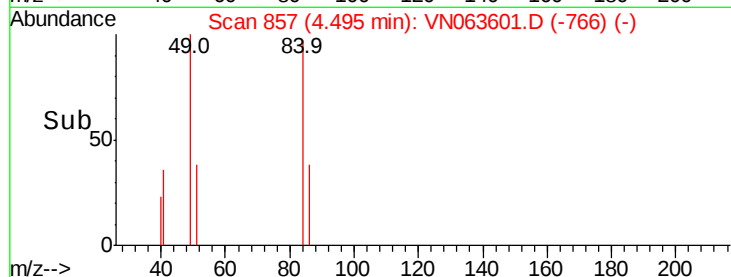
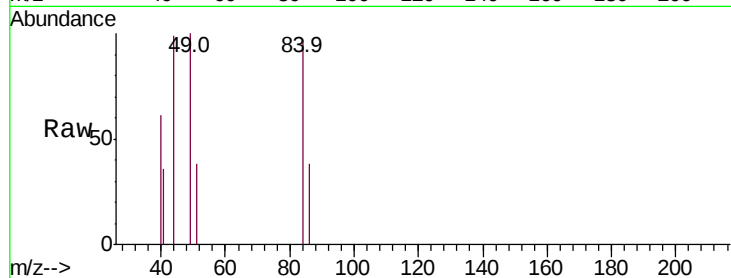




#20
Methvlene Chloride
Concen: 0.264 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

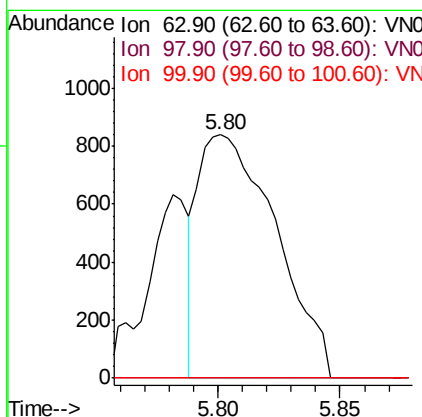
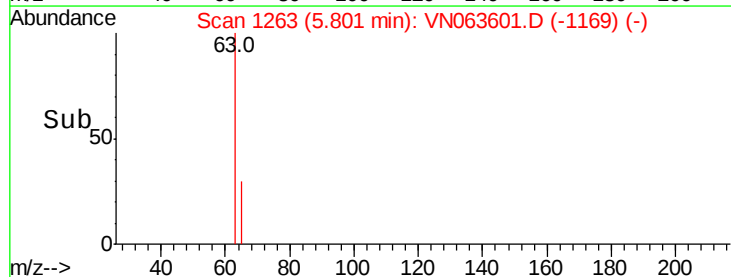
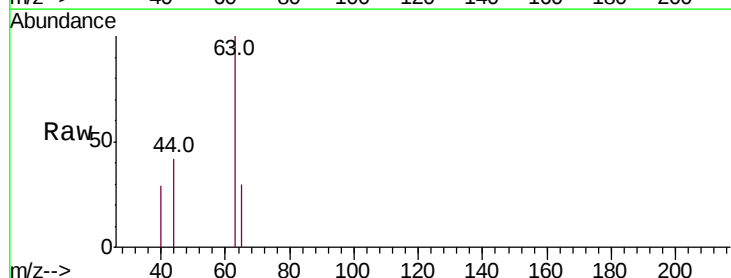
Instrument :
MSVOA_N
ClientSampleId :
RE135D3-20200917

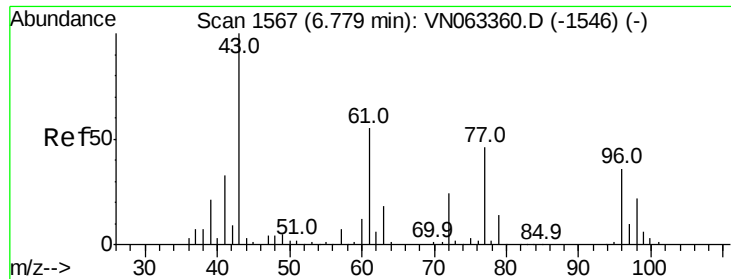
Tot Ion: 84 Resp: 751
Ion Ratio Lower Upper
84 100
49 103.4 110.7 166.1#
51 39.7 32.9 49.3
86 39.0 51.1 76.7#



#24
1,1-Dichloroethane
Concen: 0.364 ug/l
RT: 5.80 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

Tgt Ion: 63 Resp: 1855
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 2.1 6.3#

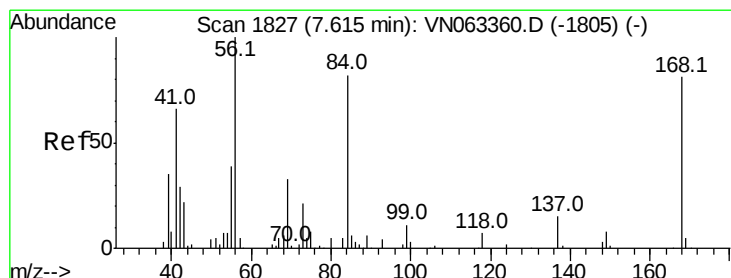
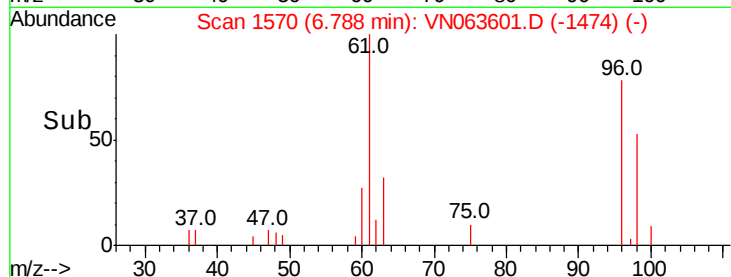
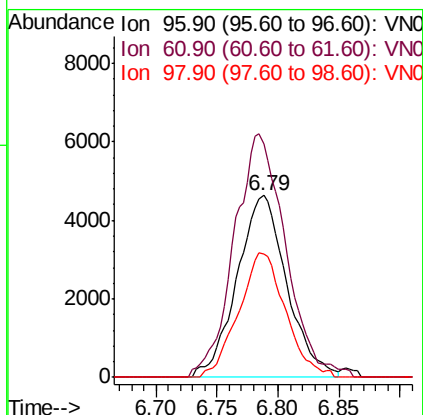
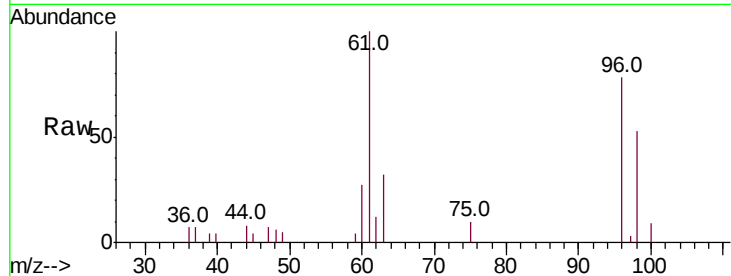




#27
 cis-1,2-Dichloroethene
 Concen: 4.518 ug/l
 RT: 6.79 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN063601.D
 Acq: 23 Sep 2020 20:06

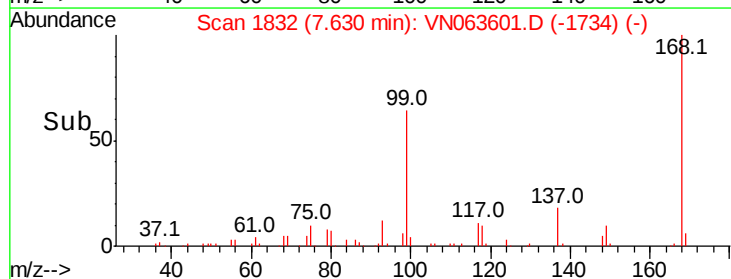
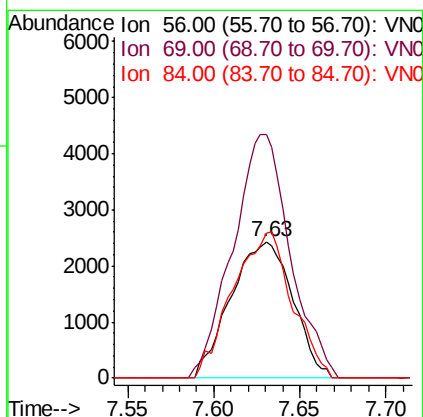
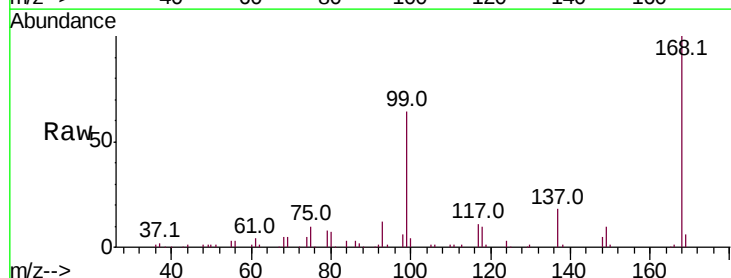
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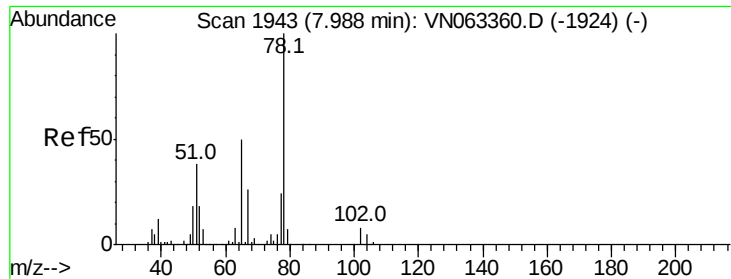
Tot Ion: 96 Resp: 13102
 Ion Ratio Lower Upper
 96 100
 61 138.5 0.0 319.6
 98 64.3 0.0 127.8



#31
 Cyclohexane
 Concen: 1.267 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. 0.02 min
 Lab File: VN063601.D
 Acq: 23 Sep 2020 20:06

Tgt Ion: 56 Resp: 6103
 Ion Ratio Lower Upper
 56 100
 69 178.8 26.1 39.1#
 84 106.1 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 50.797 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

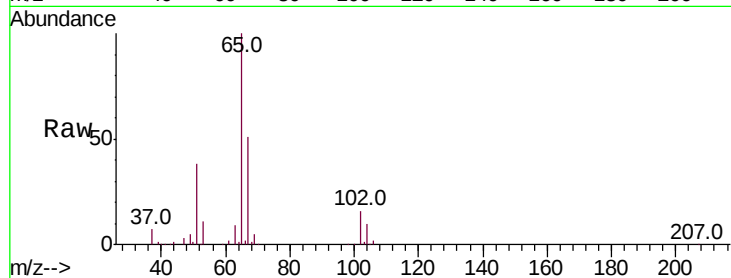
RE135D3-20200917

Tot Ion: 65 Resp: 177190

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

7.99

80000

60000

40000

20000

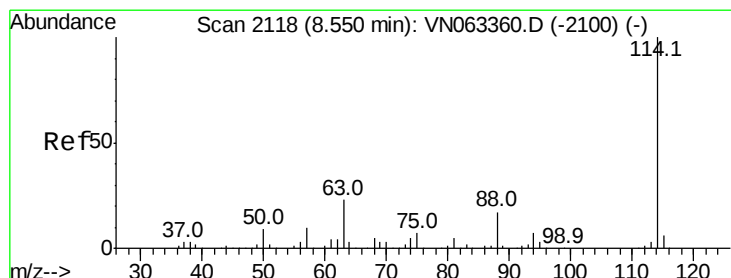
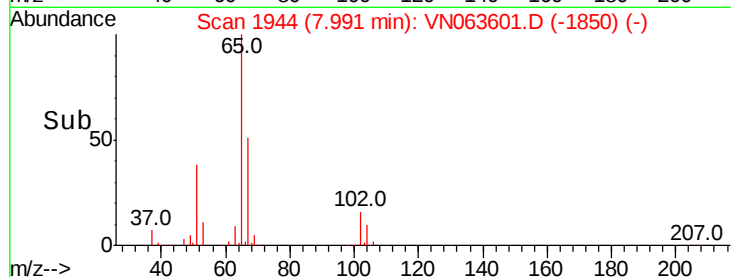
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Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

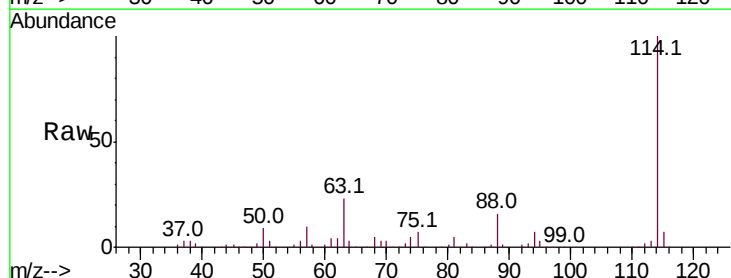
Tgt Ion: 114 Resp: 383606

Ion Ratio Lower Upper

114 100

63 22.5 0.0 46.4

88 15.9 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

250000

200000

150000

100000

50000

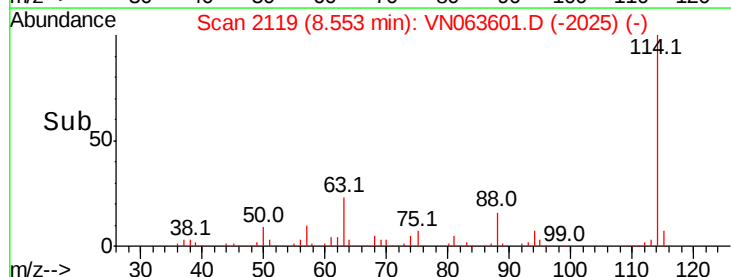
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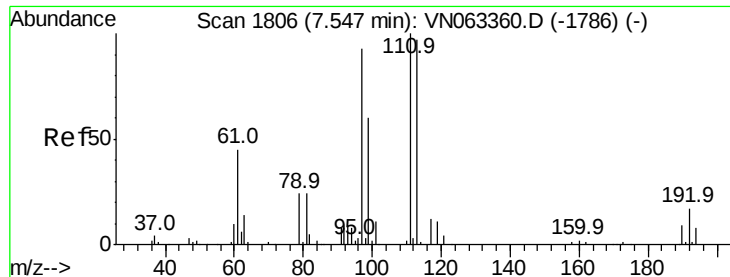
Time-->

8.50

8.60

8.70

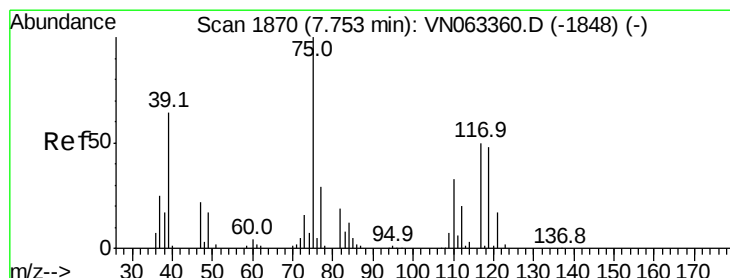
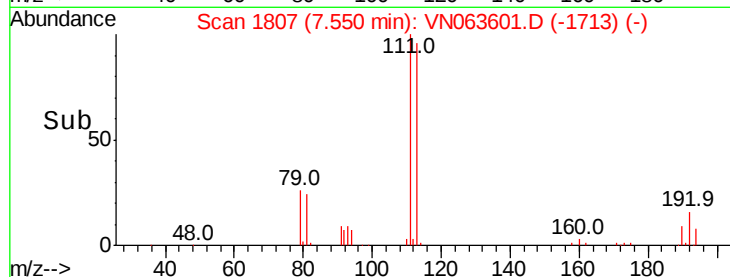
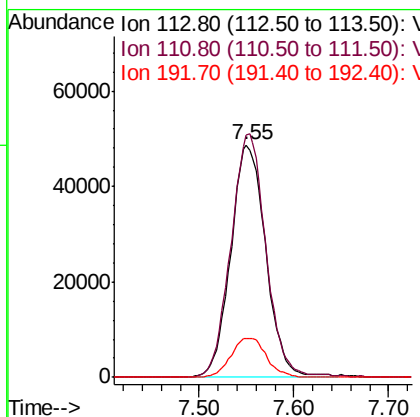
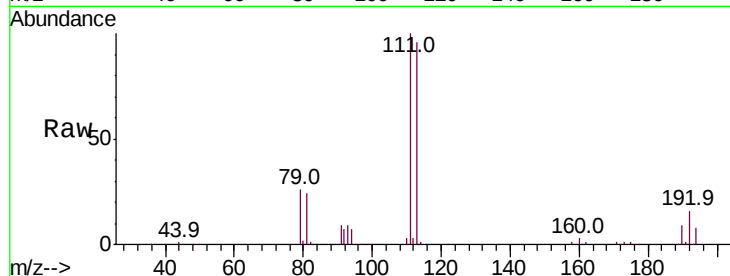




#35
 Dibromofluoromethane
 Concen: 47.329 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063601.D
 Acq: 23 Sep 2020 20:06

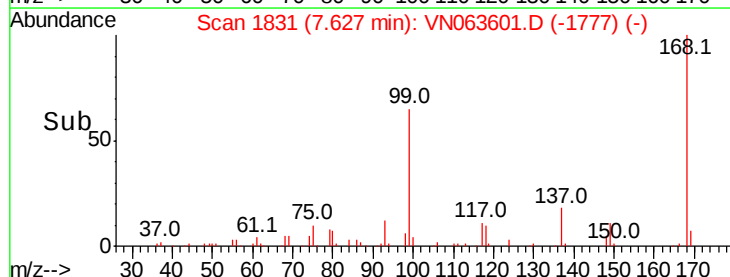
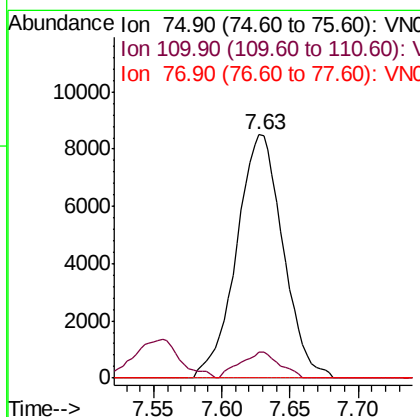
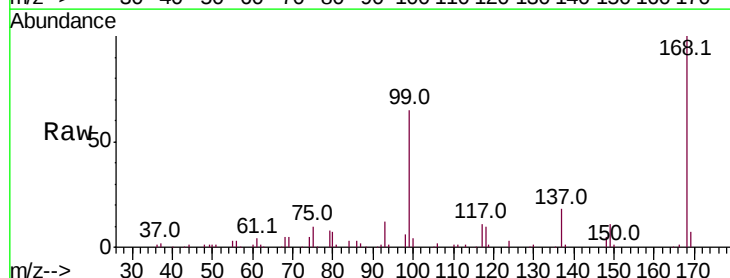
Instrument :
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 ClientSampleId :
 RE135D3-20200917

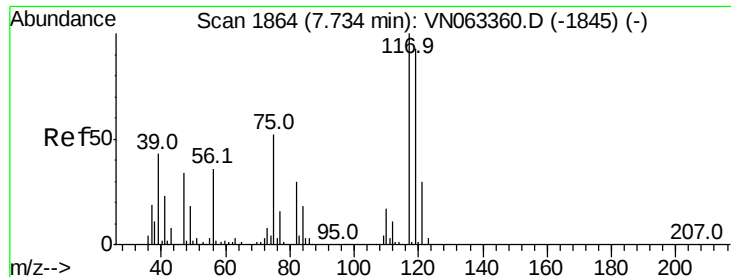
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.9	124.3
192	17.2	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063601.D
 Acq: 23 Sep 2020 20:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.396 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

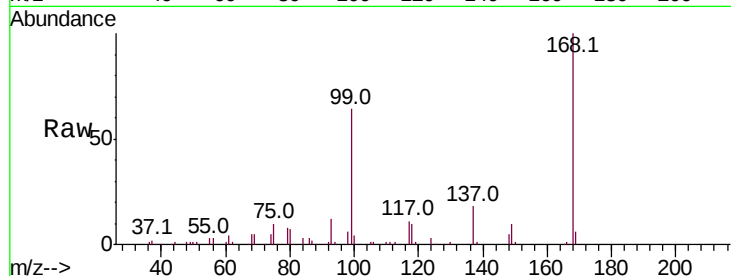
Tot Ion:117 Resp: 22509

Ion Ratio Lower Upper

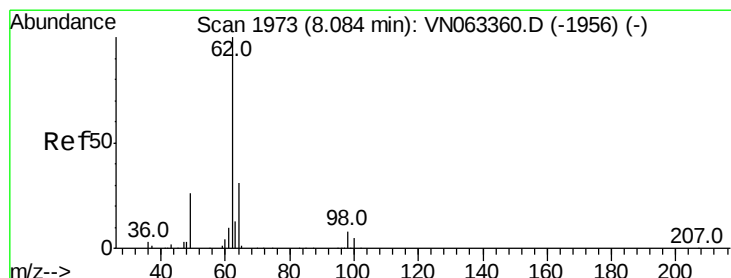
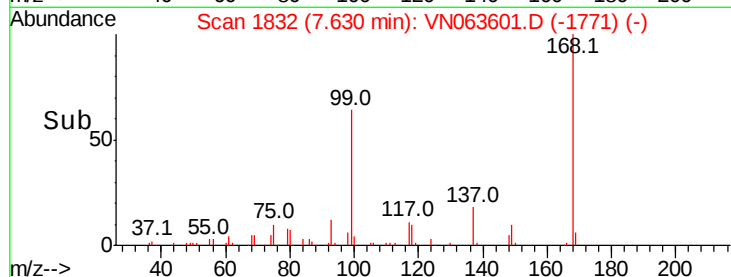
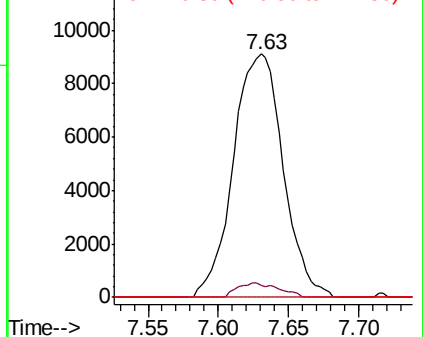
117 100

119 4.7 74.5 111.7#

121 0.0 24.1 36.1#



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



#42

1,2-Dichloroethane

Concen: 0.354 ug/l

RT: 8.09 min Scan# 1974

Delta R.T. 0.00 min

Lab File: VN063601.D

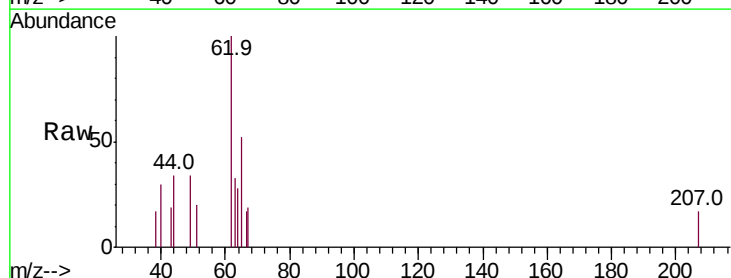
Acq: 23 Sep 2020 20:06

Tgt Ion: 62 Resp: 1663

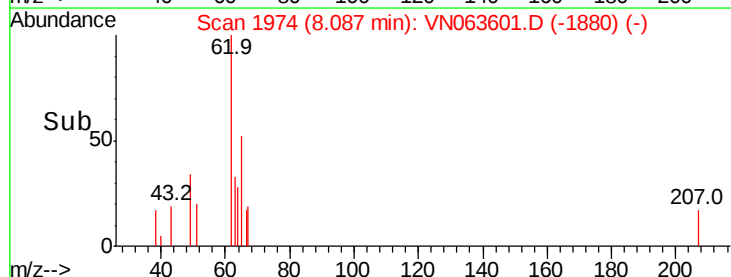
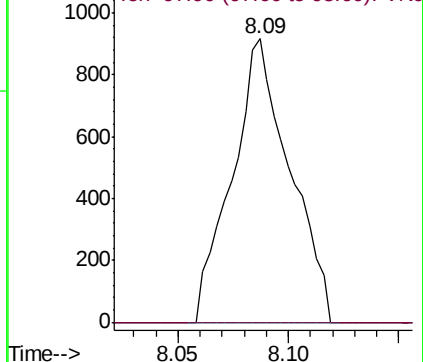
Ion Ratio Lower Upper

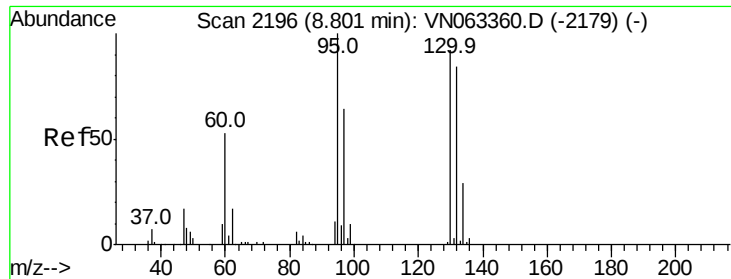
62 100

98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): V
Ion 97.90 (97.60 to 98.60): V





#44

Trichloroethene

Concen: 18.276 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

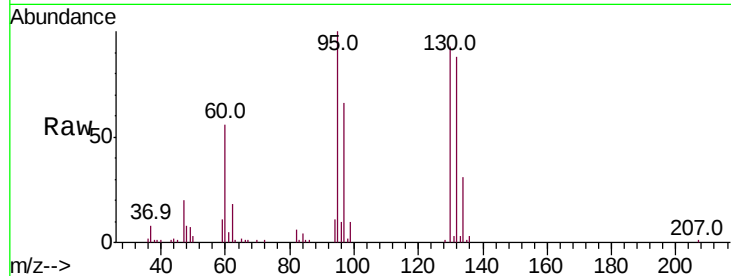
RE135D3-20200917

Tot Ion:130 Resp: 51713

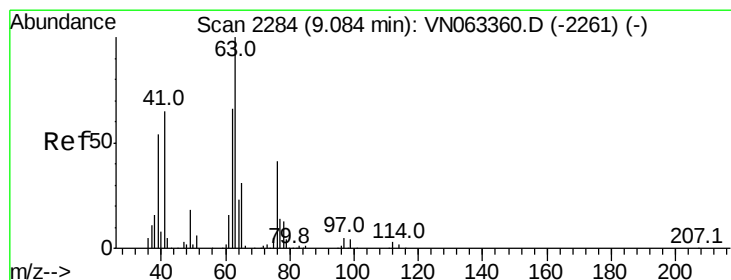
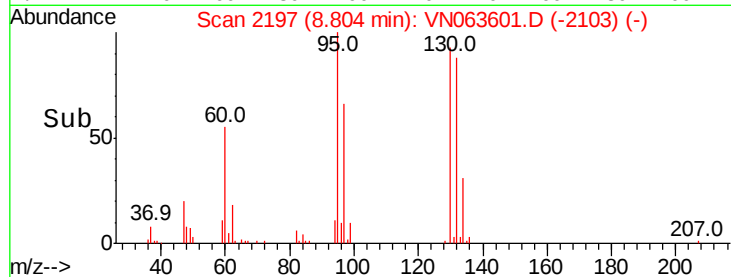
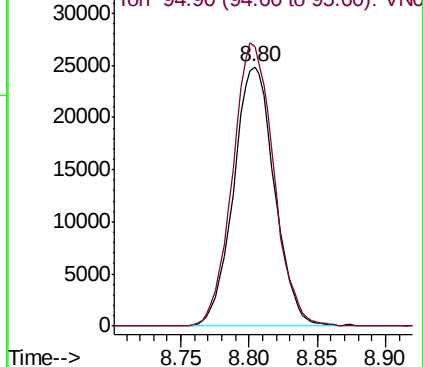
Ion Ratio Lower Upper

130 100

95 108.1 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)



#45

1,2-Dichloropropane

Concen: 3.582 ug/l

RT: 9.09 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN063601.D

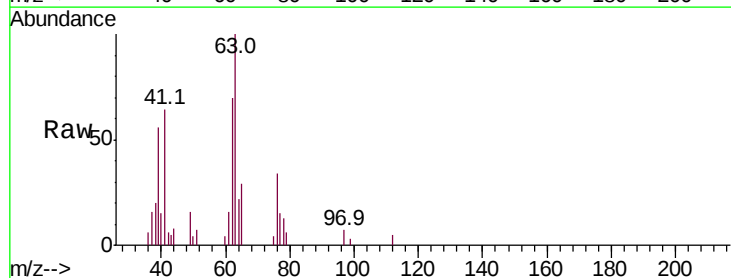
Acq: 23 Sep 2020 20:06

Tgt Ion: 63 Resp: 11382

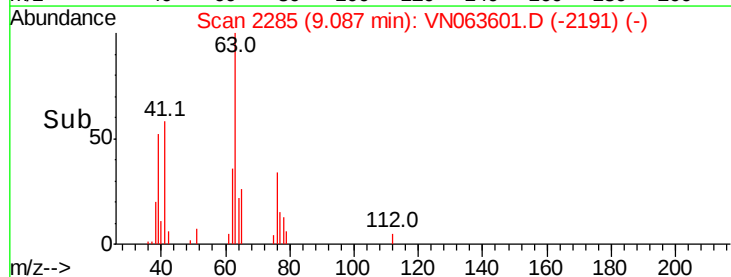
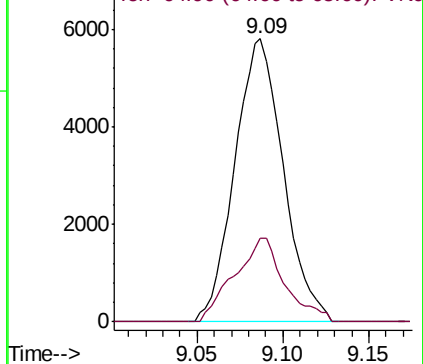
Ion Ratio Lower Upper

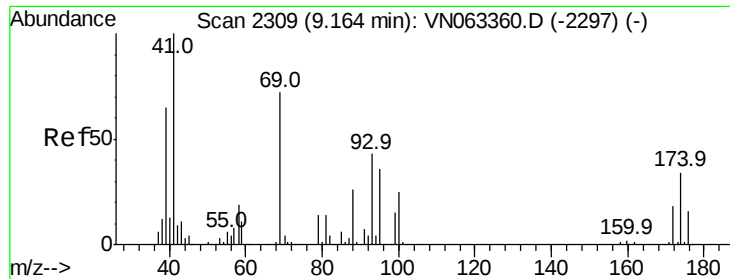
63 100

65 29.4 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)





#48

Methyl methacrylate

Concen: 2.158 ug/l

RT: 9.09 min Scan# 2285

Delta R.T. -0.08 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

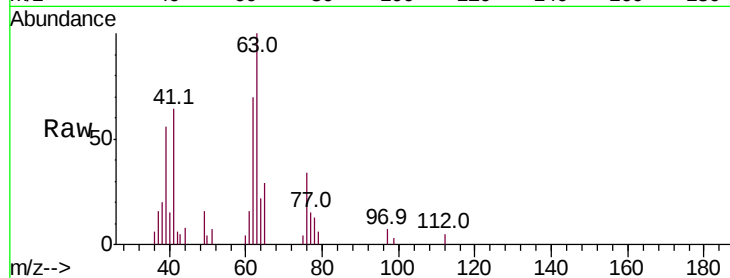
Tot Ion: 41 Resp: 7604

Ion Ratio Lower Upper

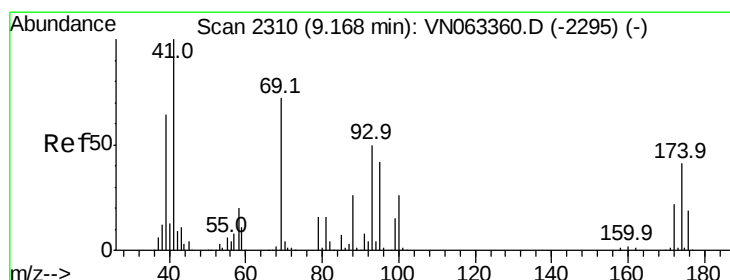
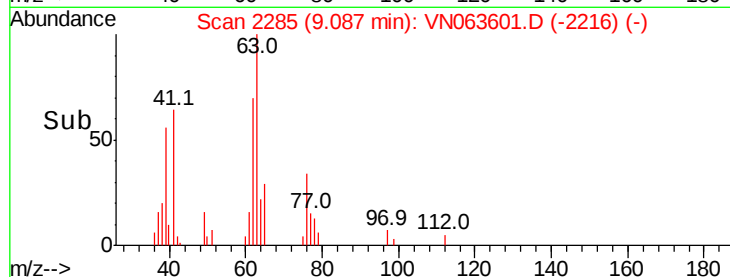
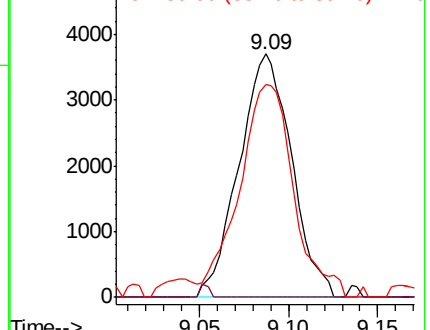
41 100

69 0.0 59.3 88.9#

39 90.6 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#49

1,4-Dioxane

Concen: 0.573 ug/l

RT: 9.41 min Scan# 2387

Delta R.T. 0.25 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

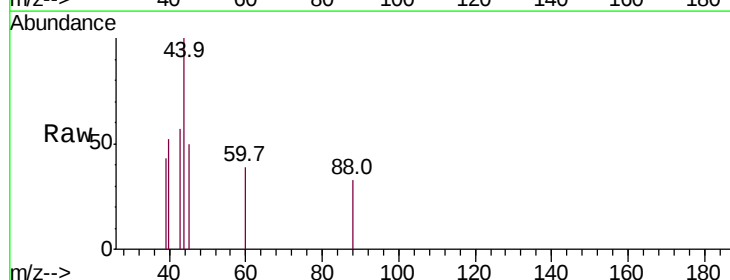
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

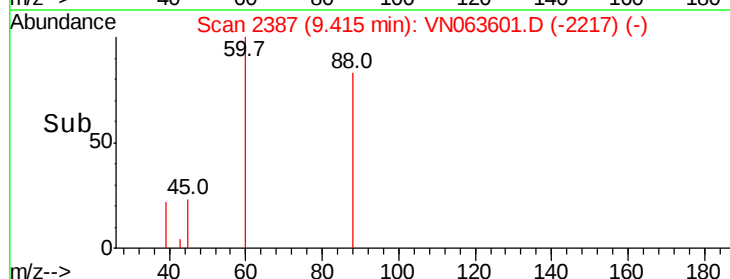
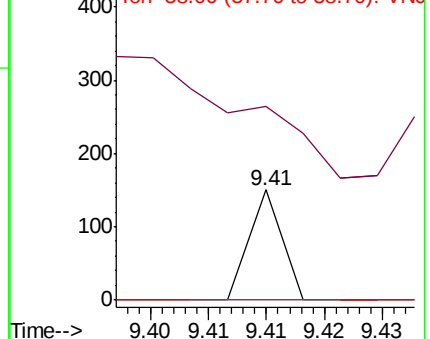
88 100

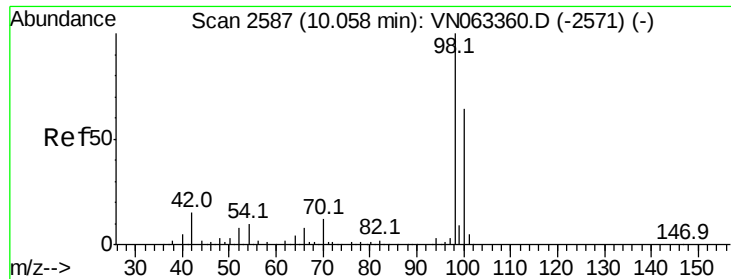
43 810.3 32.6 49.0#

58 0.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

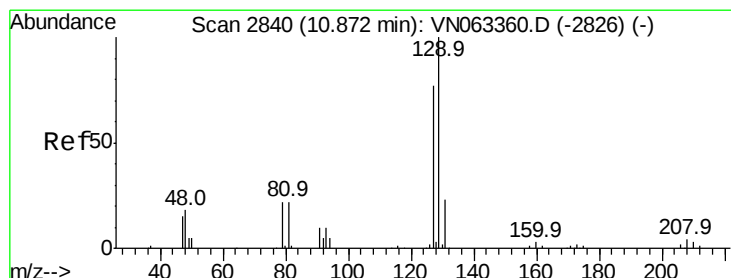
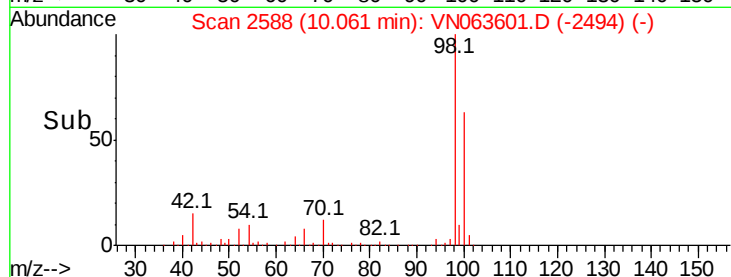
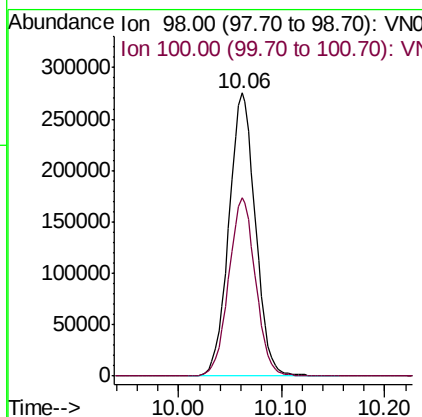
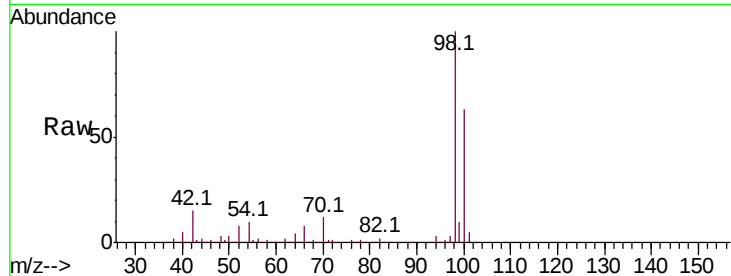




#50
Toluene-d8
Concen: 49.451 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

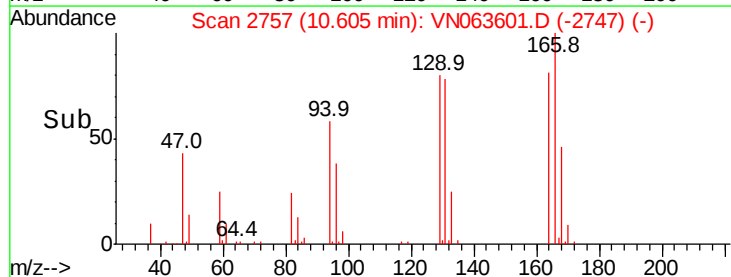
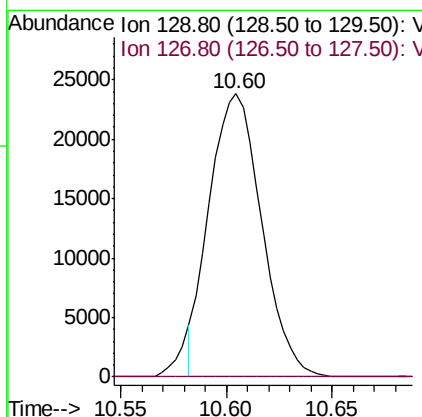
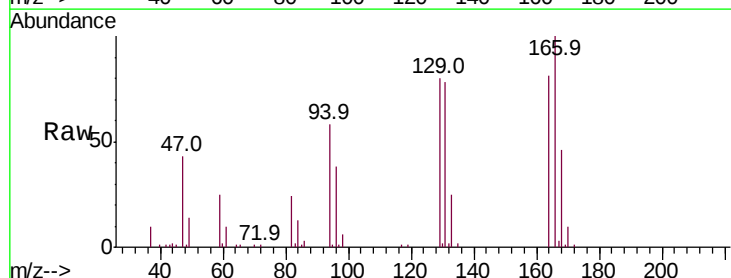
Instrument :
MSVOA_N
ClientSampleId :
RE135D3-20200917

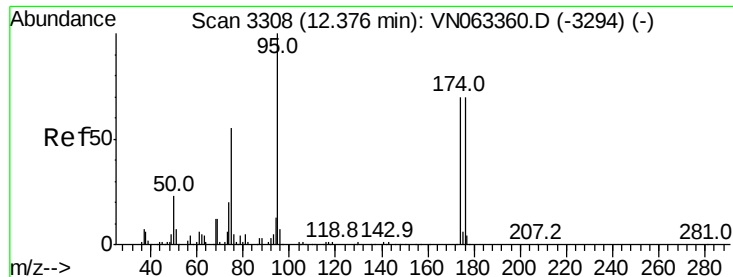
Tot Ion: 98 Resp: 493800
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



#60
Dibromochloromethane
Concen: 13.021 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

Tgt Ion: 129 Resp: 40984
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#

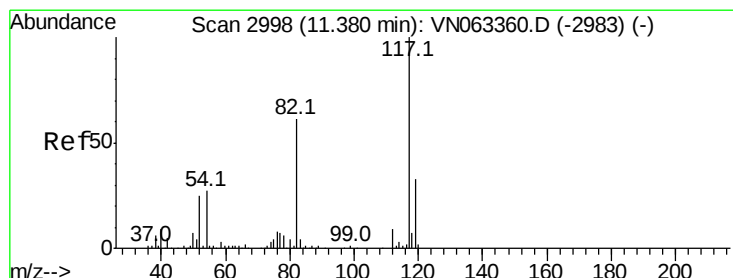
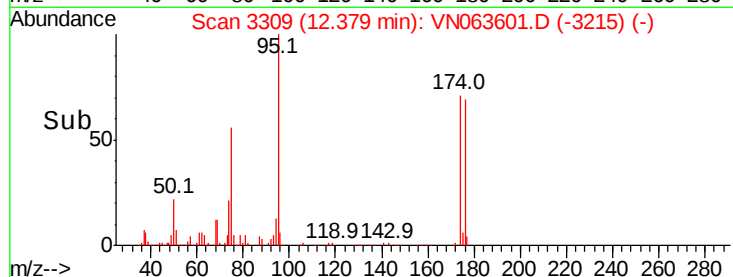
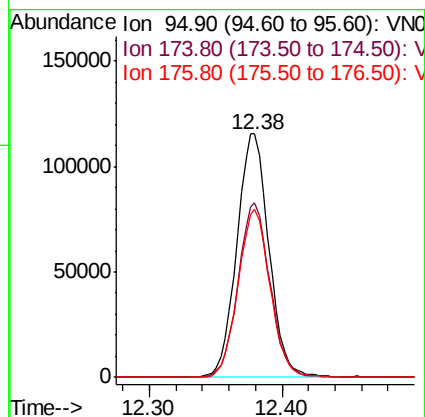
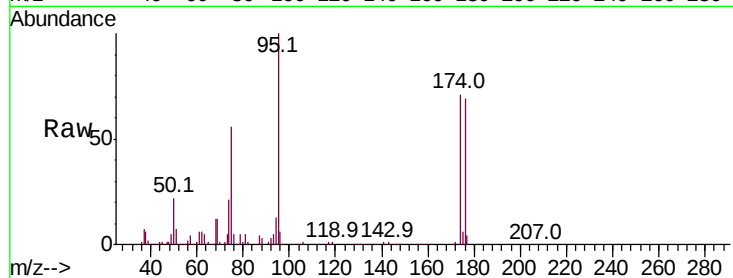




#62
4-Bromofluorobenzene
Concen: 53.076 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

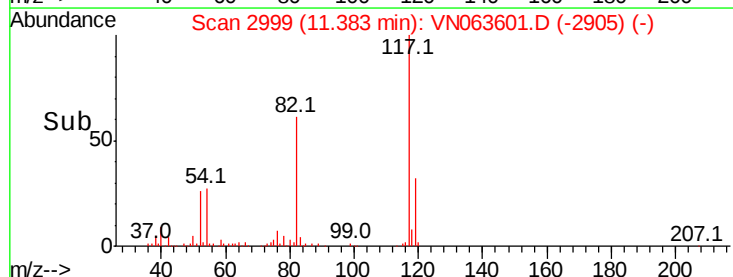
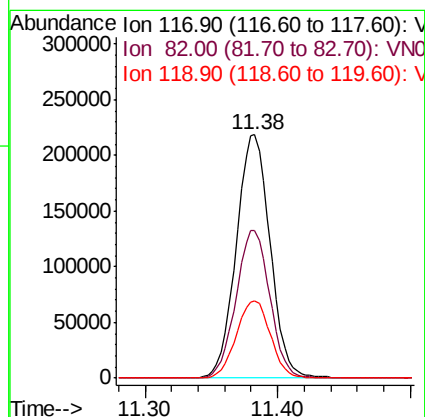
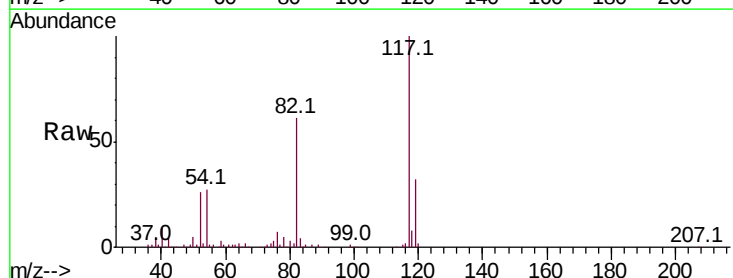
Instrument :
MSVOA_N
ClientSampleId :
RE135D3-20200917

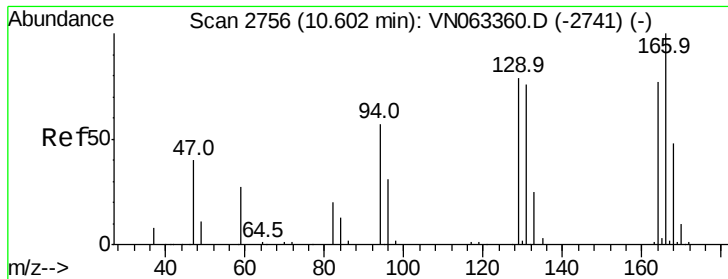
Tot Ion: 95 Resp: 194288
Ion Ratio Lower Upper
95 100
174 71.3 0.0 140.8
176 68.7 0.0 137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN063601.D
Acq: 23 Sep 2020 20:06

Tgt Ion: 117 Resp: 386877
Ion Ratio Lower Upper
117 100
82 60.6 49.2 73.8
119 32.0 26.2 39.4





#64

Tetrachloroethene

Concen: 16.431 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

Tot Ion:164 Resp: 43284

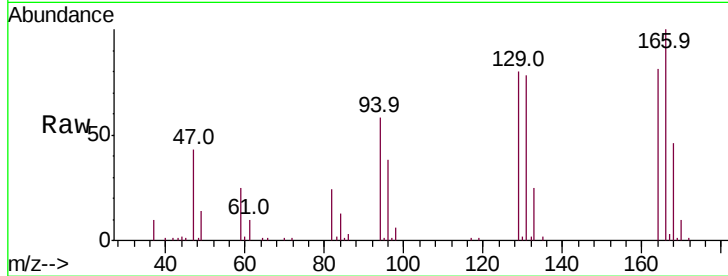
Ion Ratio Lower Upper

164 100

166 123.3 103.4 155.0

129 98.9 81.8 122.6

131 96.6 78.2 117.4

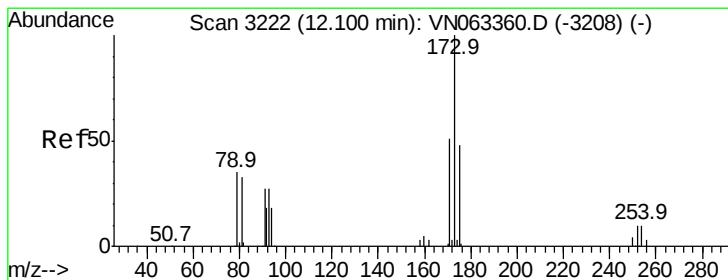
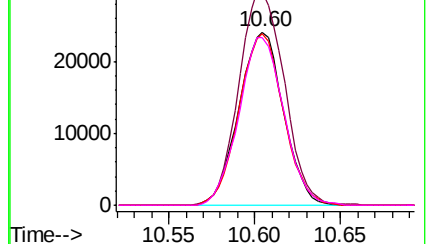
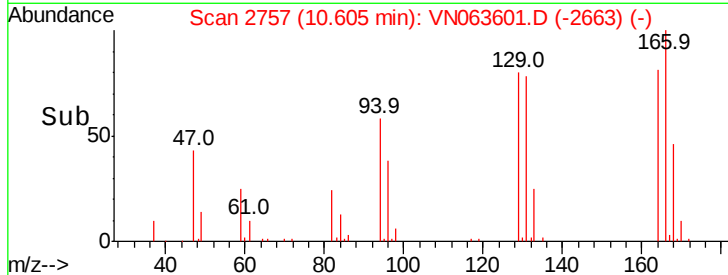


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.354 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

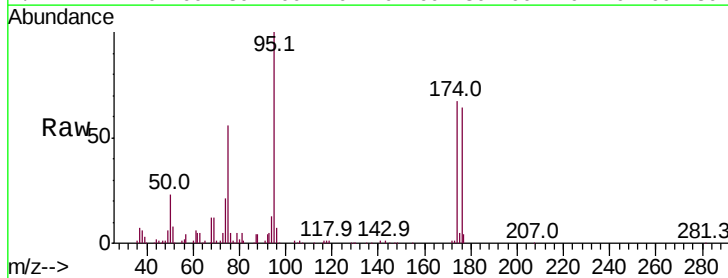
Tgt Ion:173 Resp: 793

Ion Ratio Lower Upper

173 100

175 1125.9 24.0 72.0#

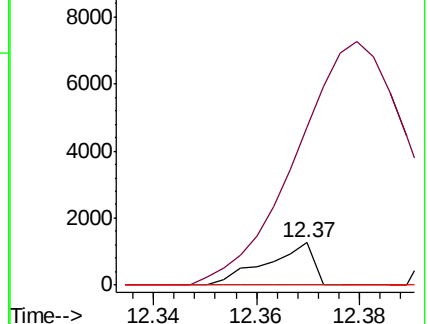
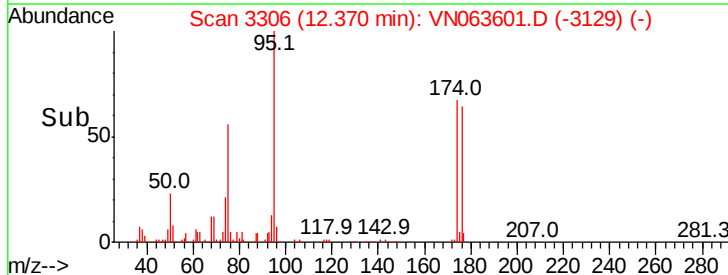
254 0.0 0.0 0.0

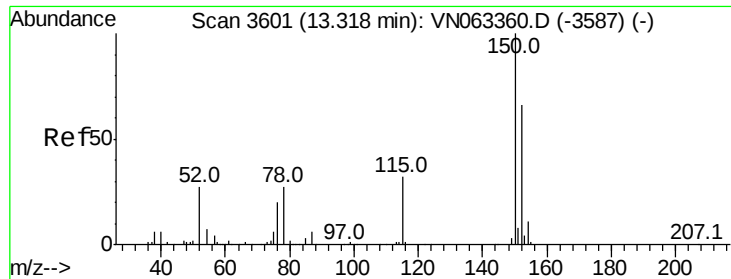


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3601

Delta R.T. -0.00 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

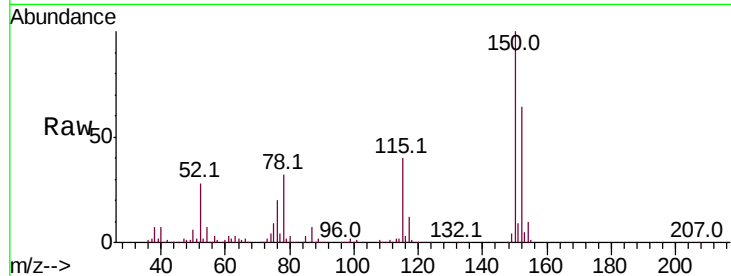
Tot Ion:152 Resp: 166284

Ion Ratio Lower Upper

152 100

115 62.3 32.2 96.6

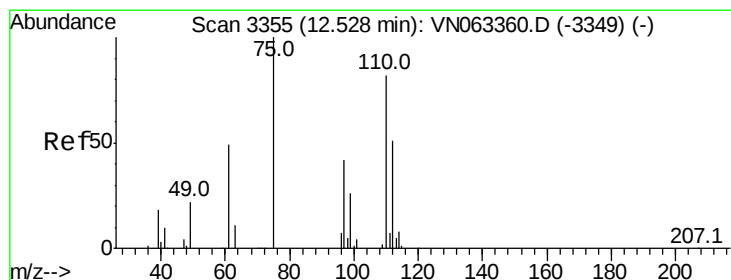
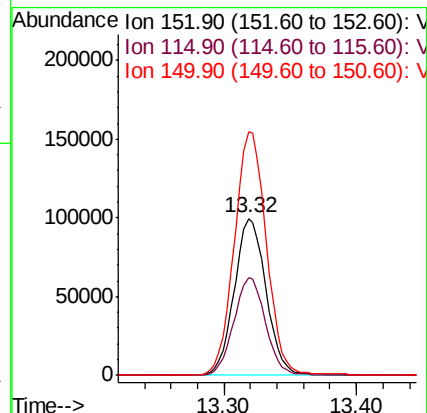
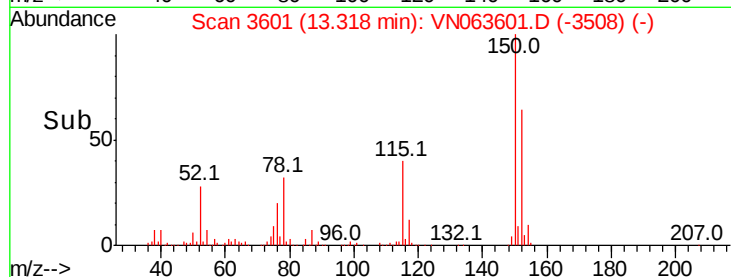
150 156.7 0.0 343.4



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: 26.175 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063601.D

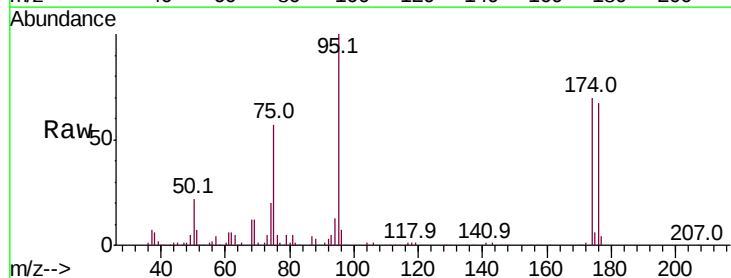
Acq: 23 Sep 2020 20:06

Tgt Ion: 75 Resp: 107729

Ion Ratio Lower Upper

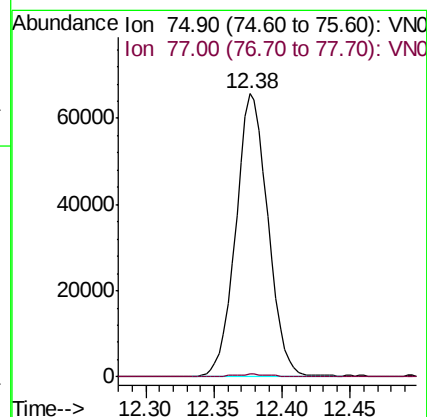
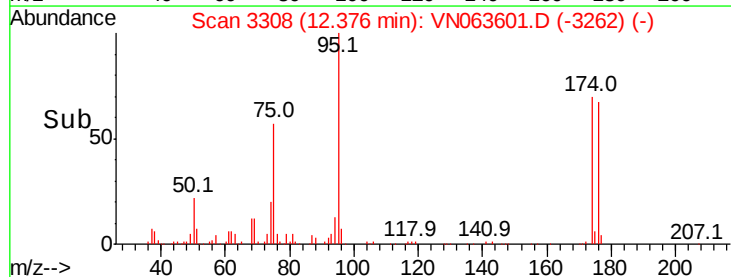
75 100

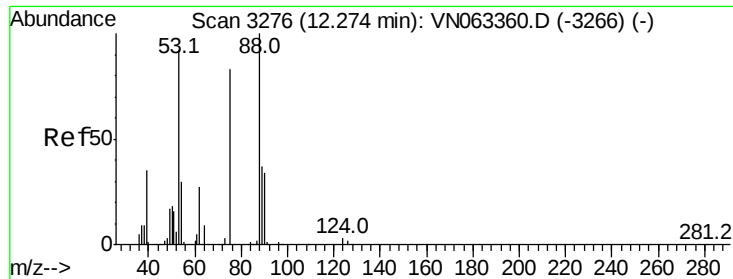
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.761 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063601.D

Acq: 23 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200917

Tot Ion: 75 Resp: 107729

Ion Ratio Lower Upper

75 100

53 0.2 85.7 128.5#

89 0.1 38.0 57.0#

