

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063639.D
 Acq On : 24 Sep 2020 19:28
 Operator : JC/MD
 Sample : L4119-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D-20200922

Quant Time: Sep 25 03:50:39 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	199328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	374507	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	379566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	160369	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	174987	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
35) Dibromofluoromethane	7.55	113	127162	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
50) Toluene-d8	10.06	98	484721	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.38	95	186232	52.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.22%	

Target Compounds

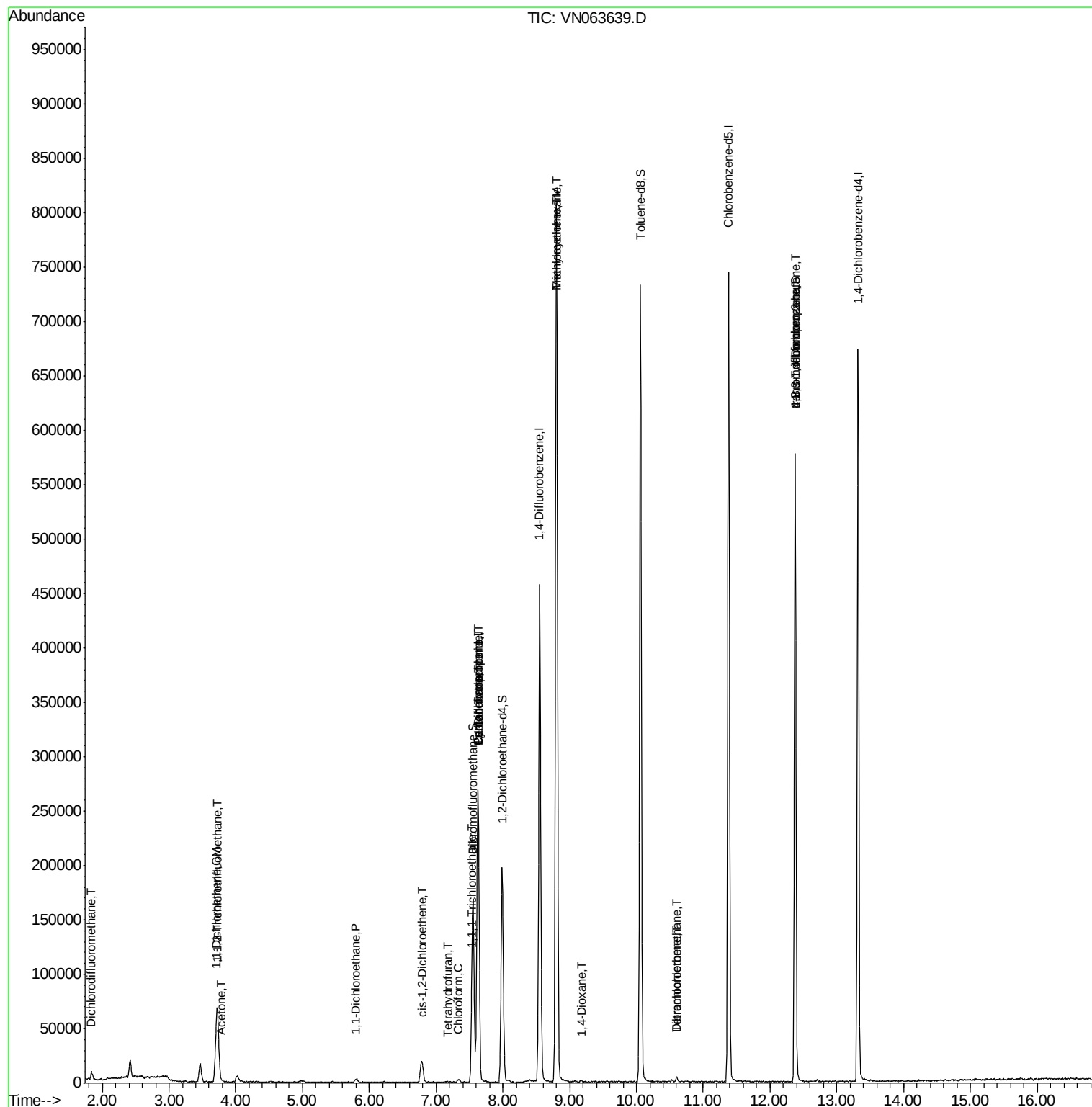
						Qvalue
2) Dichlorodifluoromethane	1.83	85	4561	2.020	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.72	101	38770	17.458	ug/l	100
12) 1,1-Dichloroethene	3.70	96	6674	2.967	ug/l #	75
16) Acetone	3.79	43	2132	1.955	ug/l #	84
24) 1,1-Dichloroethane	5.79	63	2531	0.511	ug/l #	76
27) cis-1,2-Dichloroethene	6.79	96	10535	3.735	ug/l	86
29) Tetrahydrofuran	7.16	42	445	0.388	ug/l #	36
30) Chloroform	7.33	83	2965	0.597	ug/l #	82
31) Cyclohexane	7.63	56	5770	1.231	ug/l #	32
32) 1,1,1-Trichloroethane	7.52	97	945	0.214	ug/l #	52
36) 1,1-Dichloropropene	7.63	75	18197	4.561	ug/l #	50
38) Carbon Tetrachloride	7.63	117	21455	5.268	ug/l #	18
39) Methylcyclohexane	8.80	83	4307	0.995	ug/l #	1
44) Trichloroethene	8.80	130	273256	98.917	ug/l	100
49) 1,4-Dioxane	9.17	88	848	17.177	ug/l #	81
60) Dibromochloromethane	10.60	129	705	0.229	ug/l #	10
64) Tetrachloroethene	10.60	164	704	0.272	ug/l #	73
76) 1,2,3-Trichloropropane	12.38	75	106176	26.749	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106176	73.335	ug/l #	7

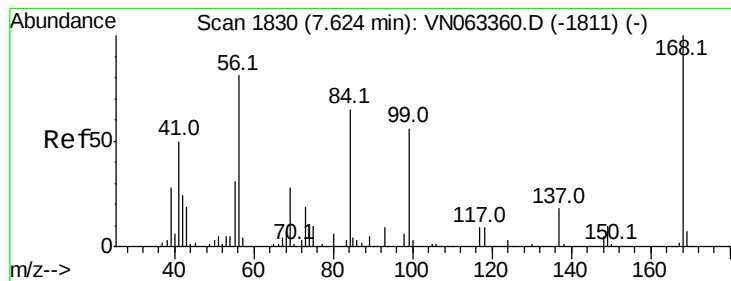
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

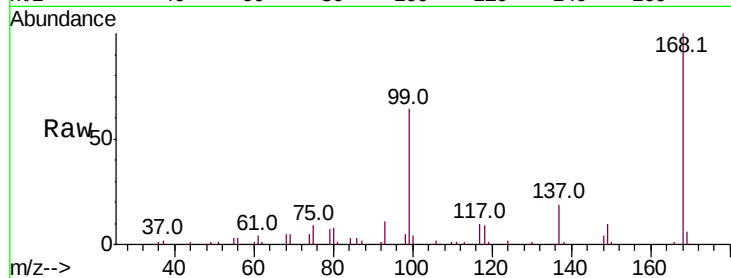
TT101D-20200922

Tot Ion:168 Resp: 199328

Ion Ratio Lower Upper

168 100

99 64.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

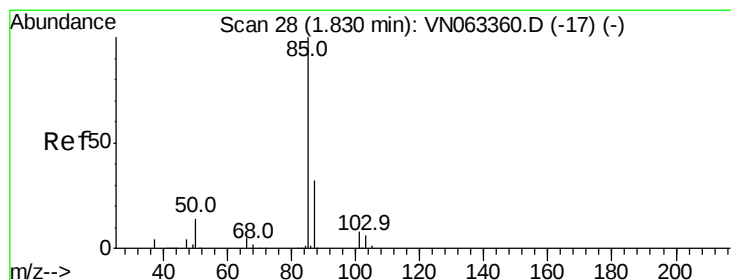
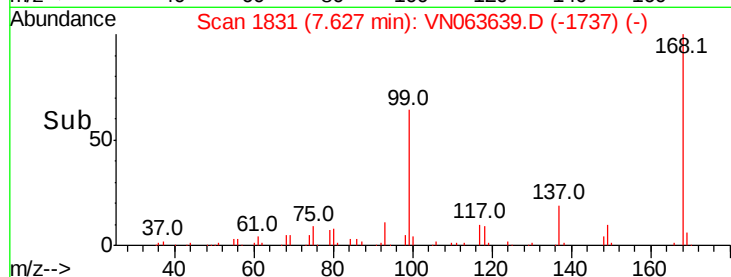
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 2.020 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063639.D

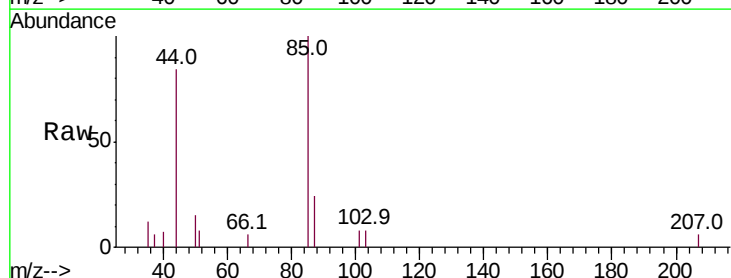
Acq: 24 Sep 2020 19:28

Tgt Ion: 85 Resp: 4561

Ion Ratio Lower Upper

85 100

87 24.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

4000

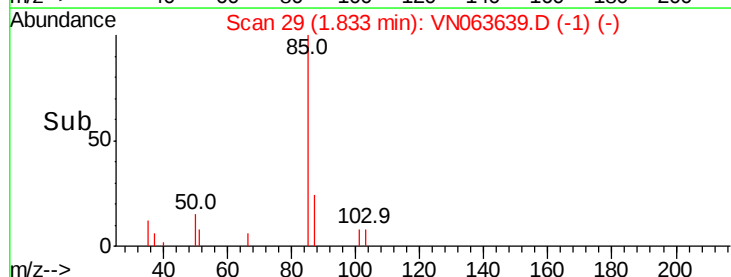
3000

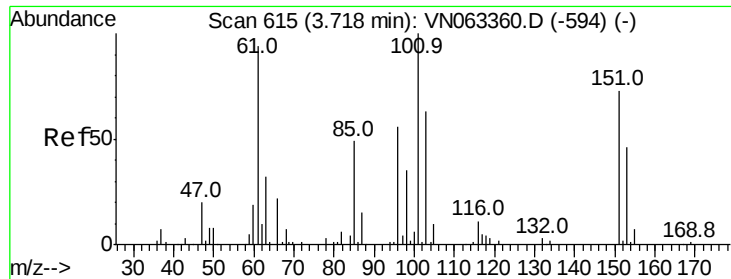
2000

1000

0

Time--> 1.80 1.85





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.458 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

TT101D-20200922

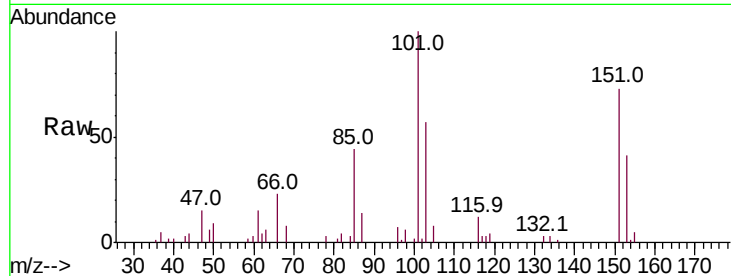
Tot Ion:101 Resp: 38770

Ion Ratio Lower Upper

101 100

85 46.8 37.7 56.5

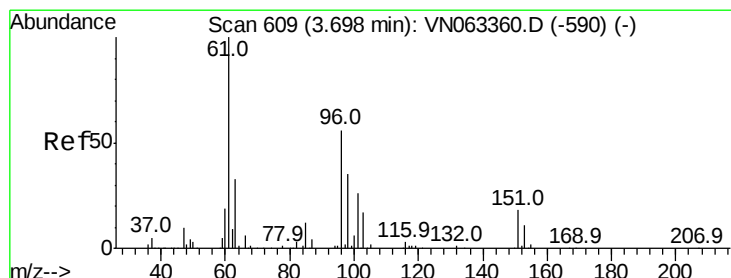
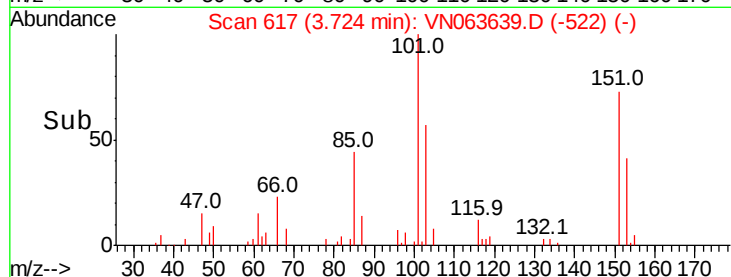
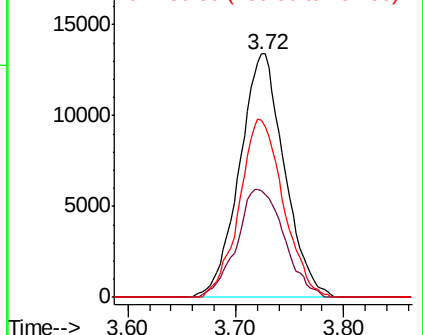
151 71.7 57.7 86.5



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



#12

1,1-Dichloroethene

Concen: 2.967 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

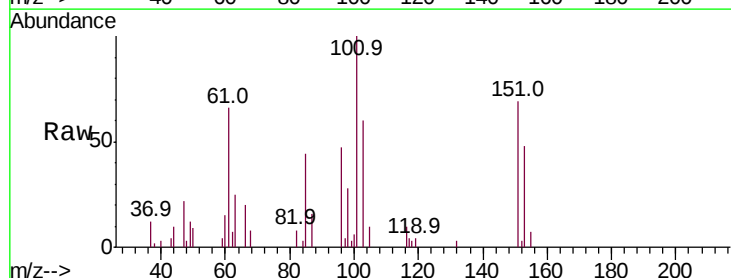
Tgt Ion: 96 Resp: 6674

Ion Ratio Lower Upper

96 100

61 134.3 143.4 215.2#

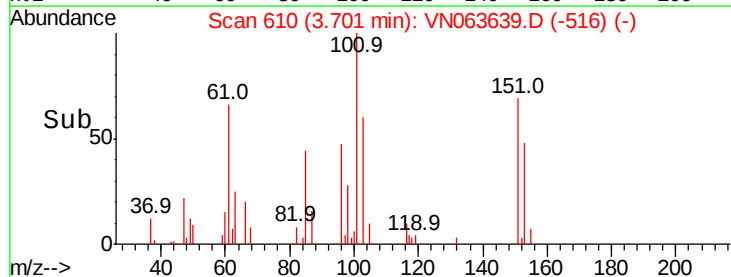
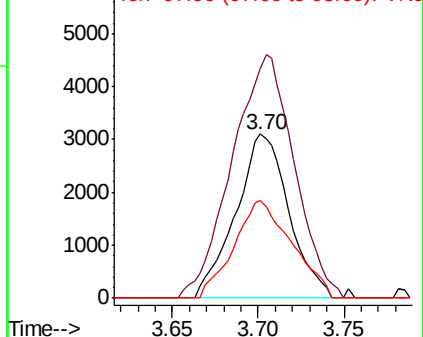
98 59.9 50.6 76.0

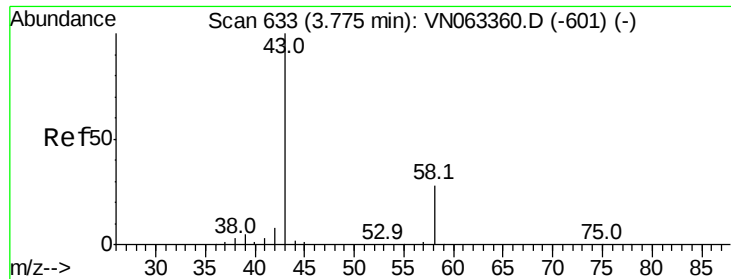


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#16

Acetone

Concen: 1.955 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

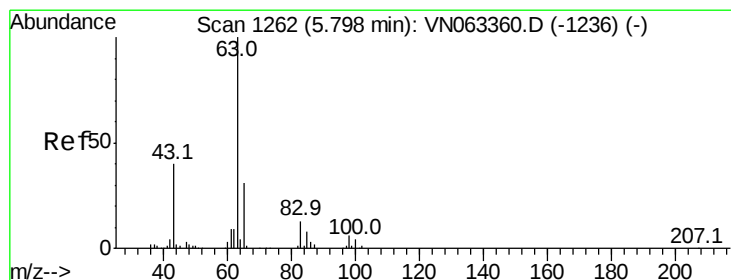
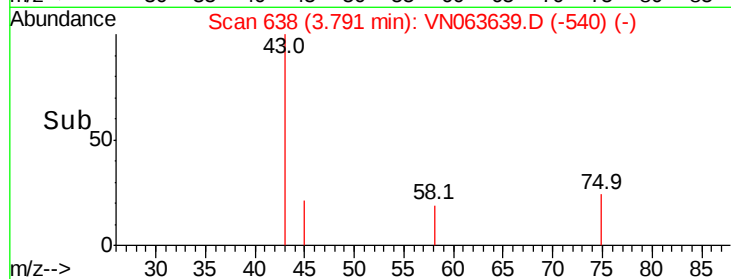
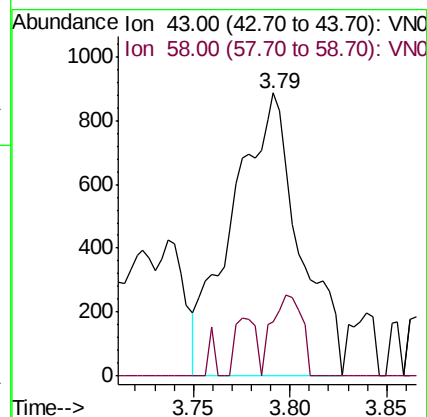
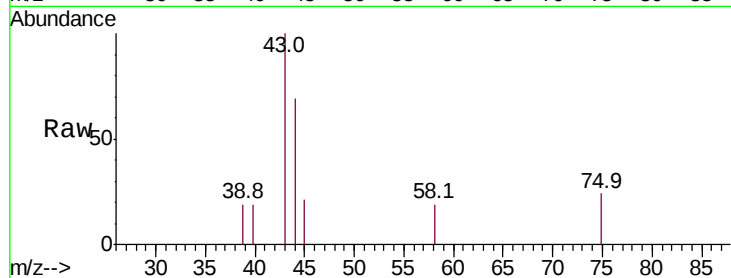
TT101D-20200922

Tot Ion: 43 Resp: 2132

Ion Ratio Lower Upper

43 100

58 19.3 22.3 33.5#



#24

1,1-Dichloroethane

Concen: 0.511 ug/l

RT: 5.79 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

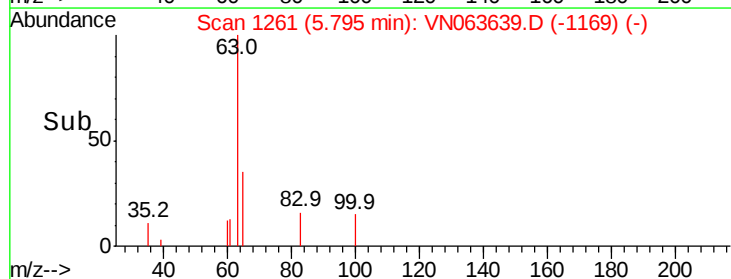
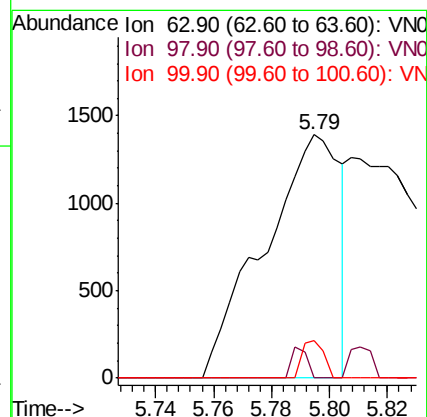
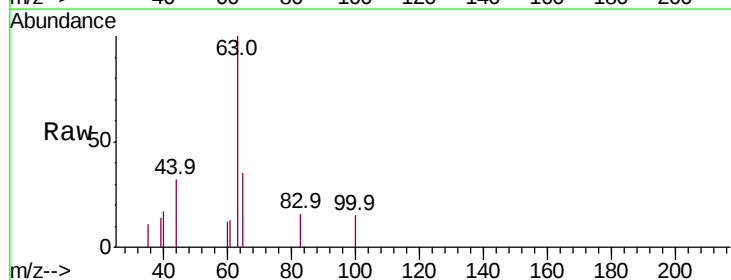
Tgt Ion: 63 Resp: 2531

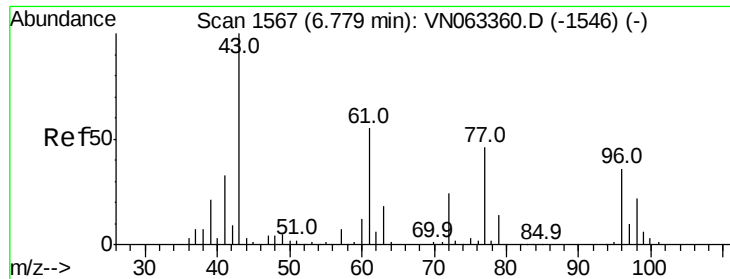
Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

100 15.1 2.1 6.3#





#27

cis-1,2-Dichloroethene

Concen: 3.735 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

TT101D-20200922

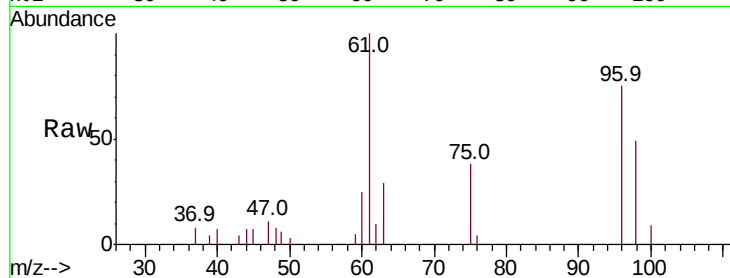
Tot Ion: 96 Resp: 10535

Ion Ratio Lower Upper

96 100

61 134.7 0.0 319.6

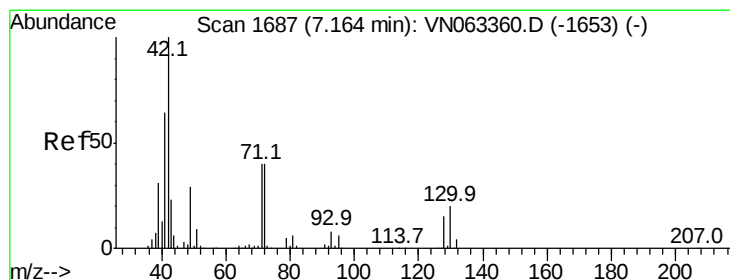
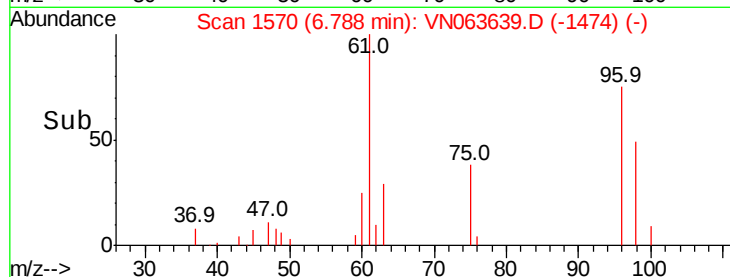
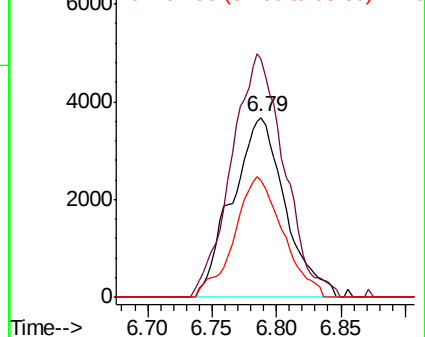
98 61.5 0.0 127.8



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



#29

Tetrahydrofuran

Concen: 0.388 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

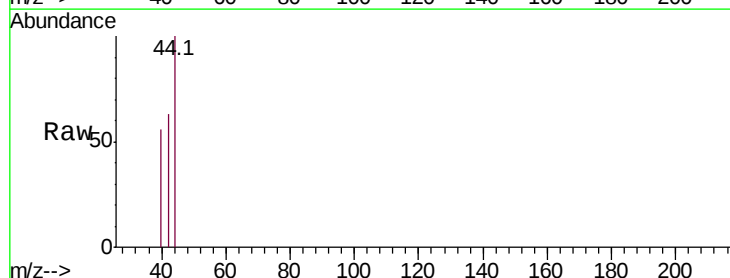
Tgt Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

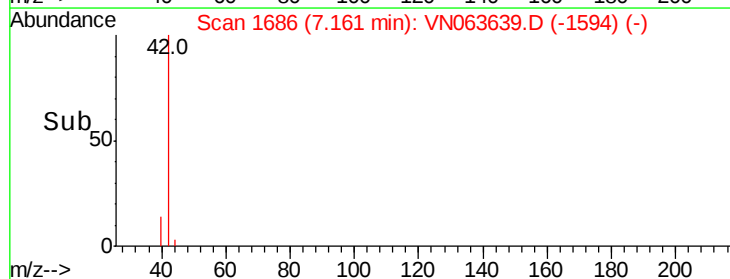
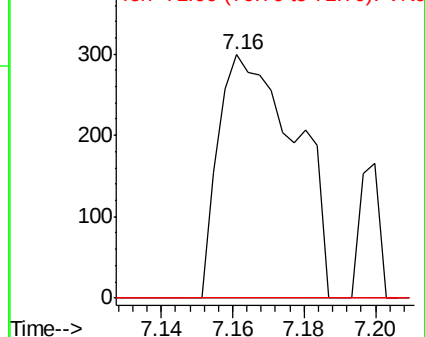
71 0.0 31.2 46.8#

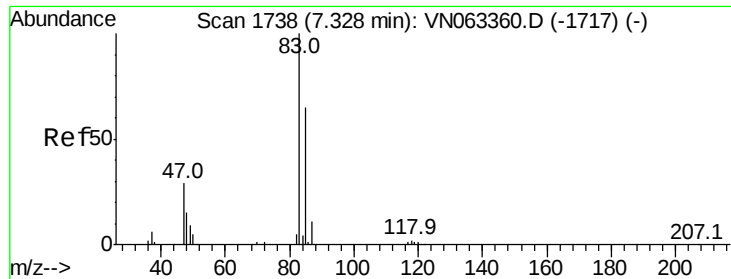


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#30

Chloroform

Concen: 0.597 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

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ClientSampleId :

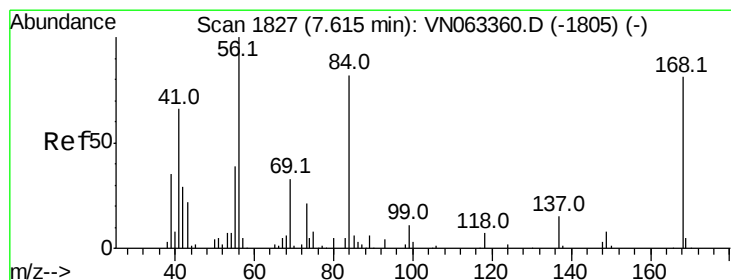
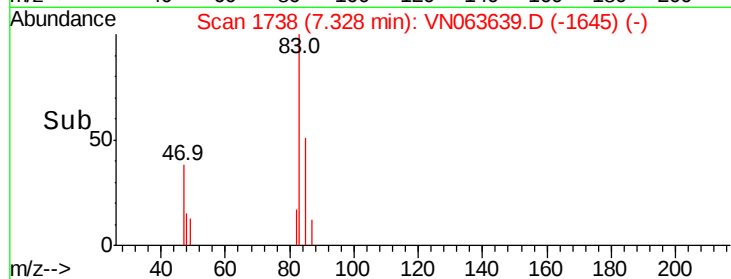
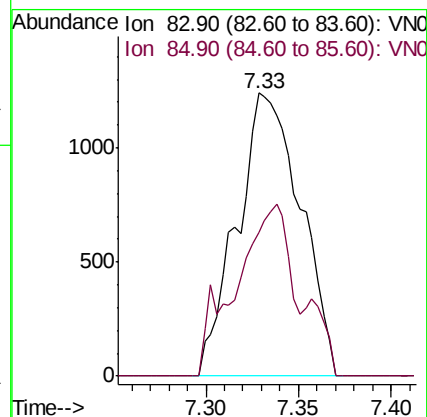
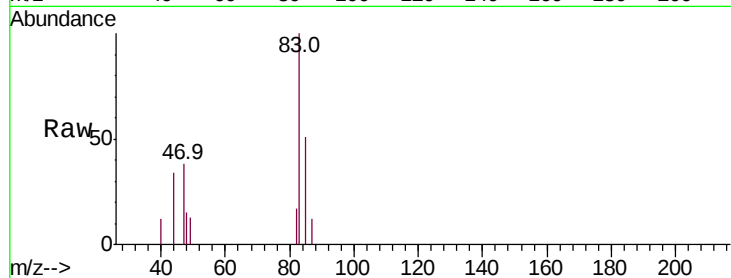
TT101D-20200922

Tot Ion: 83 Resp: 2965

Ion Ratio Lower Upper

83 100

85 50.6 52.1 78.1#



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

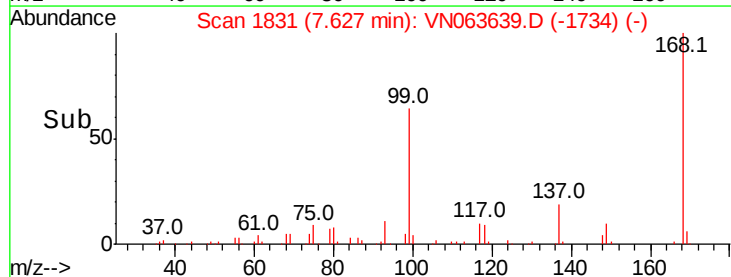
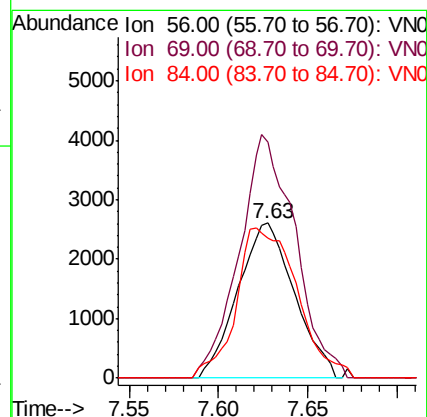
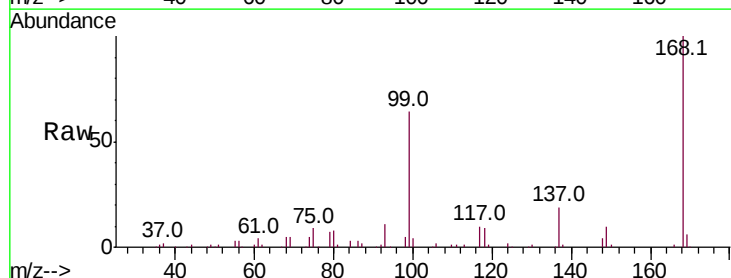
Tgt Ion: 56 Resp: 5770

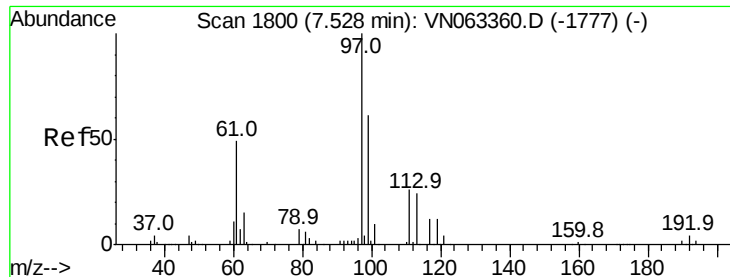
Ion Ratio Lower Upper

56 100

69 152.6 26.1 39.1#

84 90.5 65.4 98.2





#32

1,1,1-Trichloroethane

Concen: 0.214 ug/l

RT: 7.52 min Scan# 1798

Delta R.T. -0.01 min

Lab File: VN063639.D

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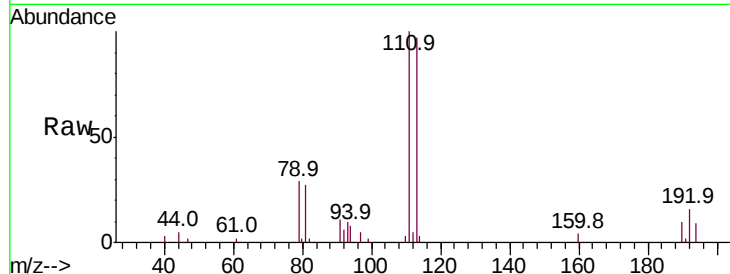
Tot Ion: 97 Resp: 945

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0#

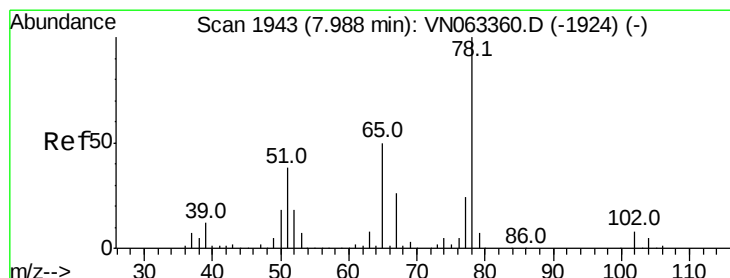
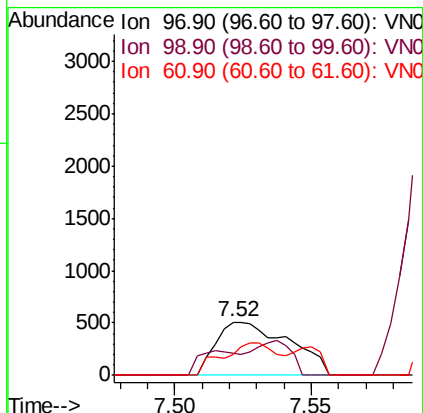
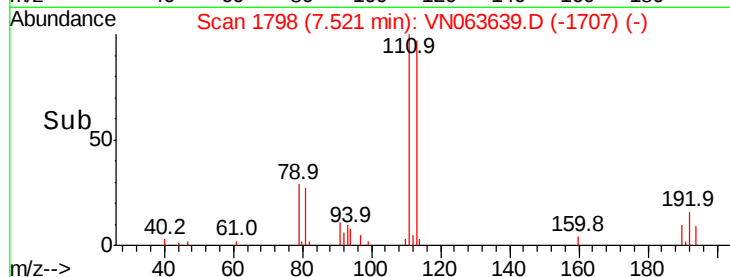
61 45.9 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.572 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063639.D

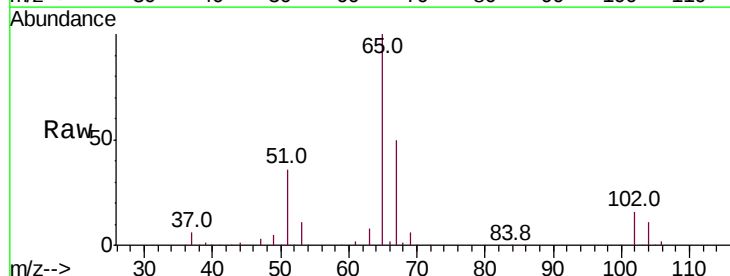
Acq: 24 Sep 2020 19:28

Tgt Ion: 65 Resp: 174987

Ion Ratio Lower Upper

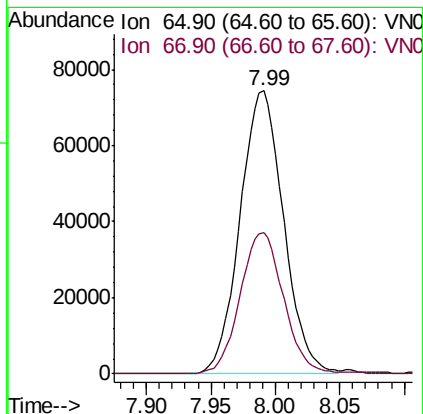
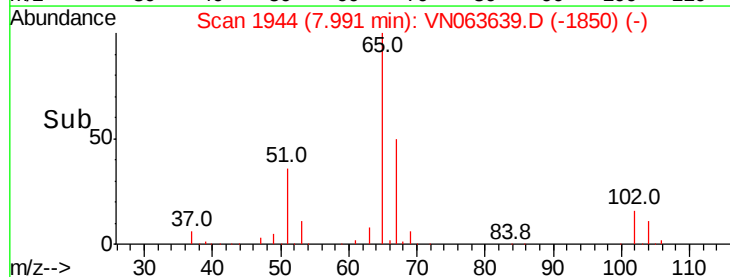
65 100

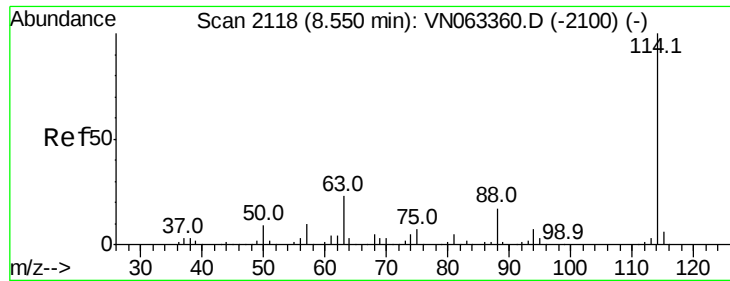
67 49.7 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

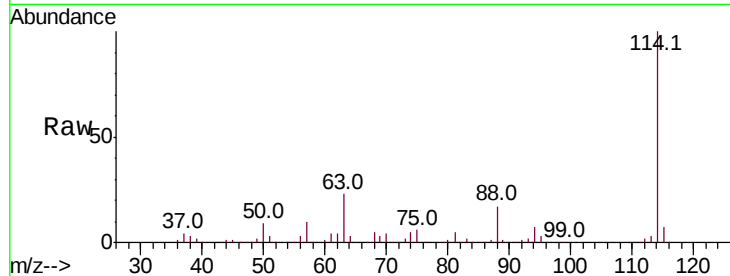




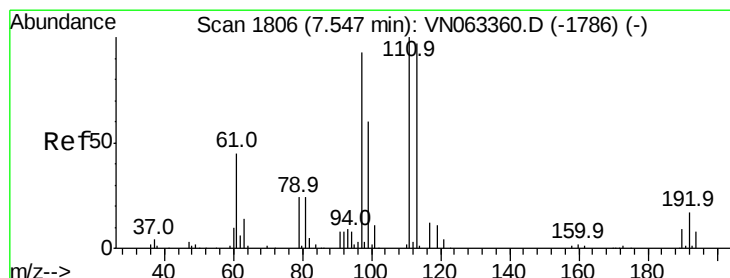
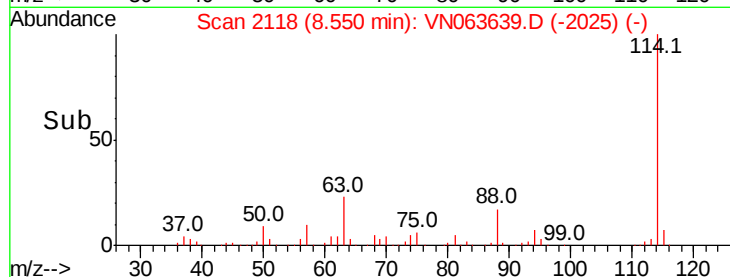
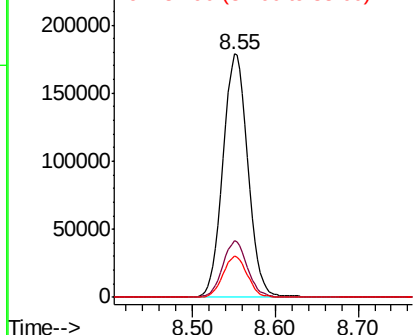
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063639.D
 Acq: 24 Sep 2020 19:28

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D-20200922

Tot Ion:	114	Resp:	374507
Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	46.4
88	16.8	0.0	33.2

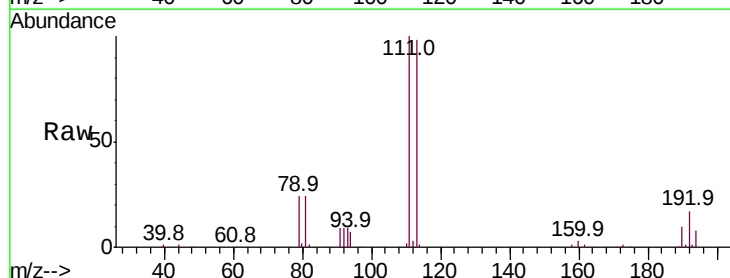


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

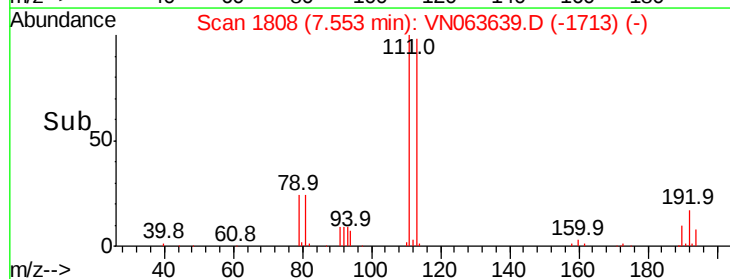
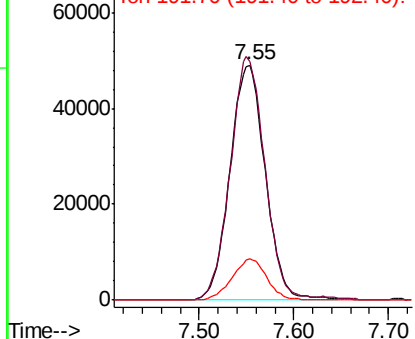


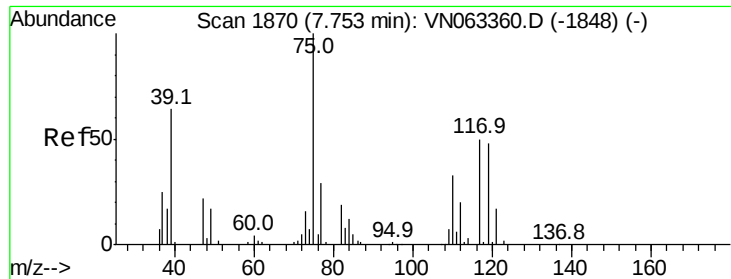
#35
 Dibromofluoromethane
 Concen: 49.047 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063639.D
 Acq: 24 Sep 2020 19:28

Tgt Ion:	113	Resp:	127162
Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.9	124.3
192	17.2	13.9	20.9



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: 4.561 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

TT101D-20200922

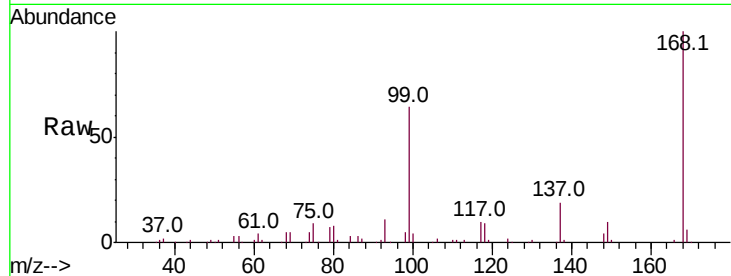
Tot Ion: 75 Resp: 18197

Ion Ratio Lower Upper

75 100

110 7.7 16.5 49.5#

77 0.0 24.6 36.8#

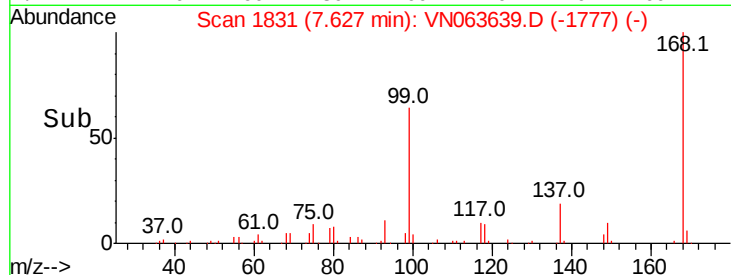


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

Time-->

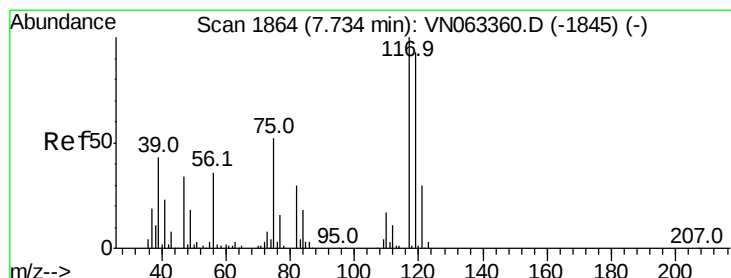


Abundance Ion 74.90 (74.60 to 75.60): VN063639.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063639.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063639.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.268 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

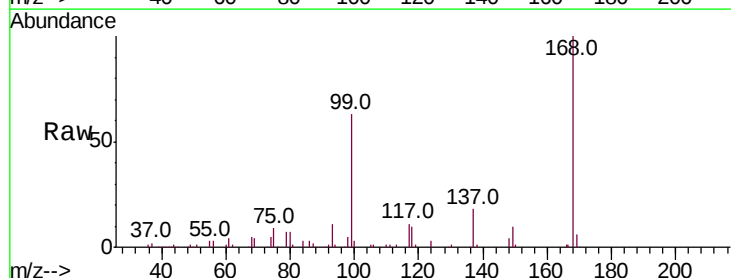
Tgt Ion: 117 Resp: 21455

Ion Ratio Lower Upper

117 100

119 5.8 74.5 111.7#

121 0.0 24.1 36.1#

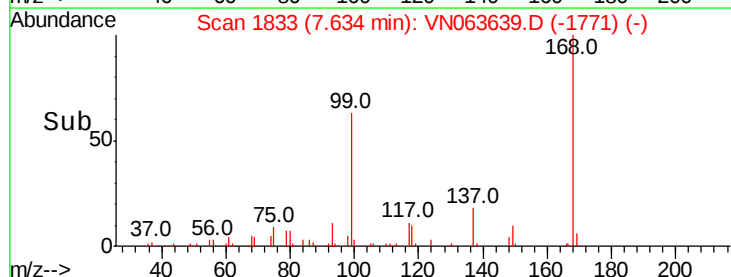


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

Time-->

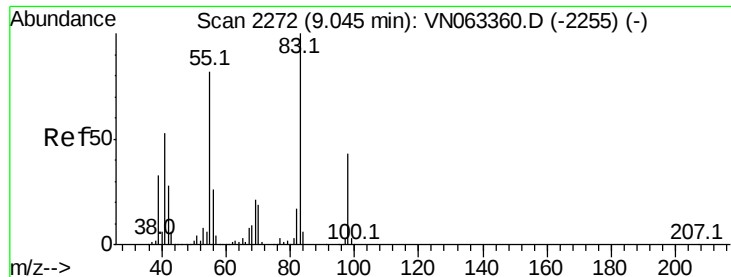


Abundance Ion 116.80 (116.50 to 117.50): VN063639.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063639.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063639.D (-1771) (-)

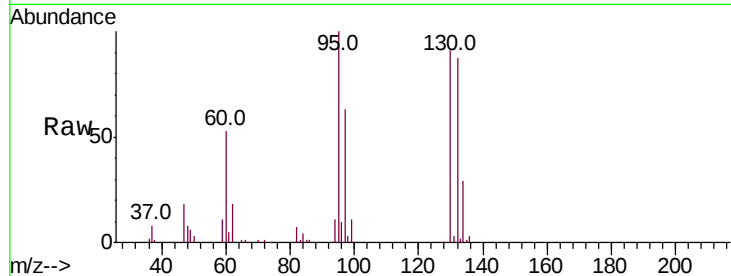
Time-->



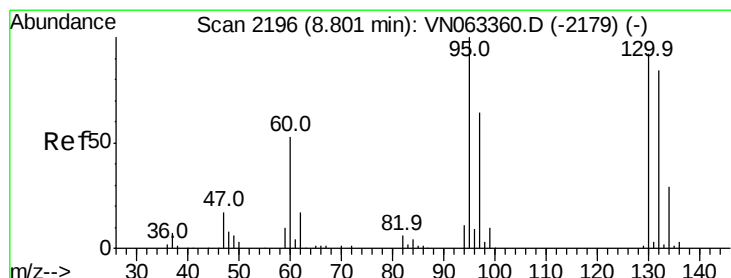
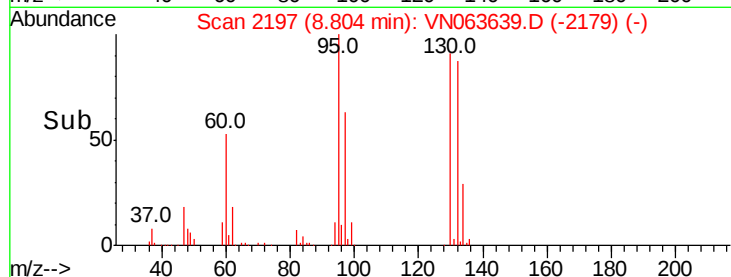
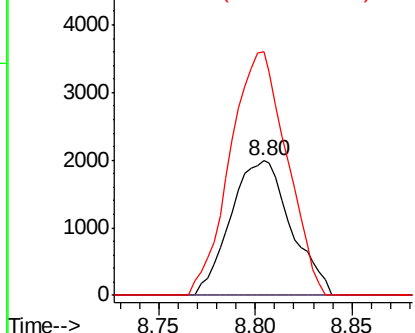
#39
Methylcyclohexane
Concen: 0.995 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

Instrument :
MSVOA_N
ClientSampleId :
TT101D-20200922

Tot Ion: 83 Resp: 4307
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 181.0 34.2 51.4#

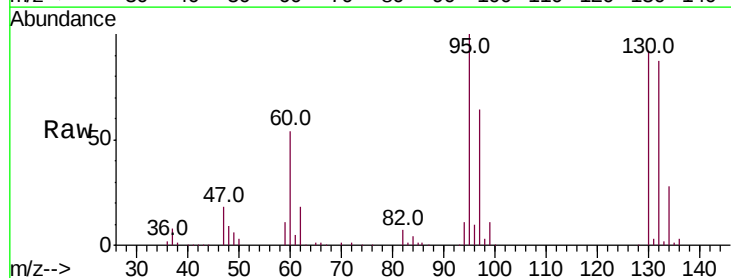


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

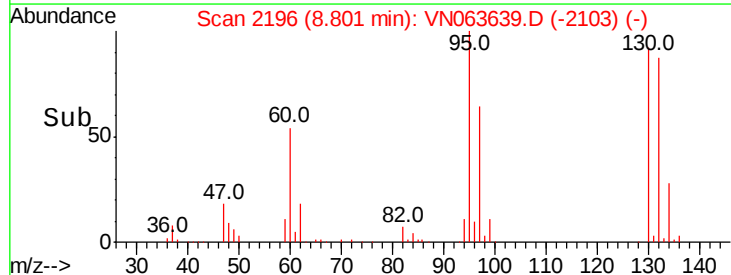
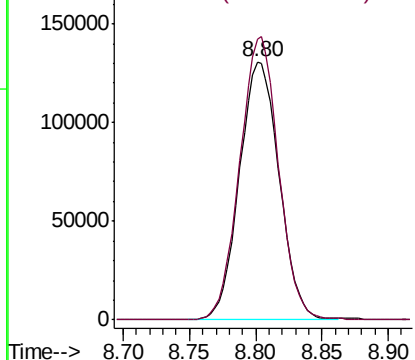


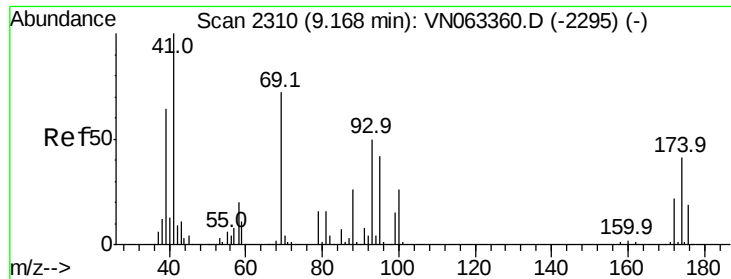
#44
Trichloroethene
Concen: 98.917 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

Tgt Ion: 130 Resp: 273256
Ion Ratio Lower Upper
130 100
95 108.5 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

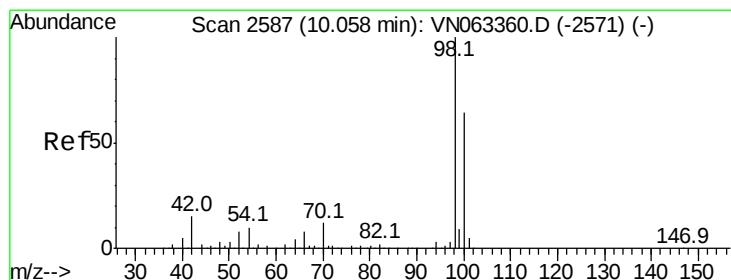
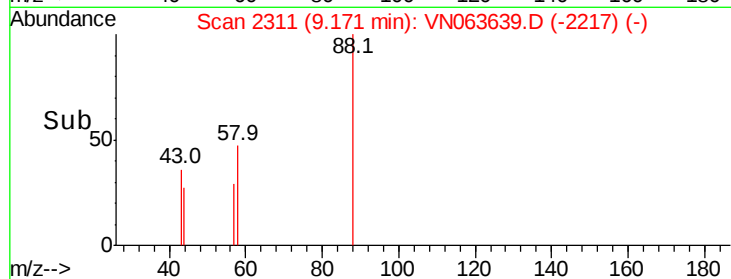
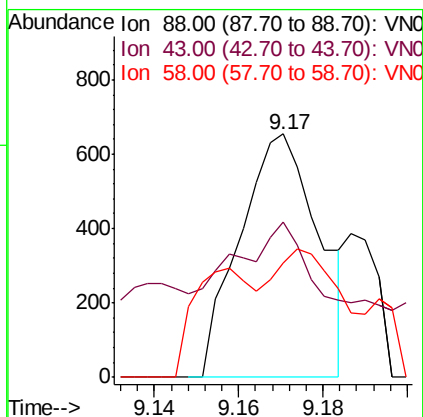
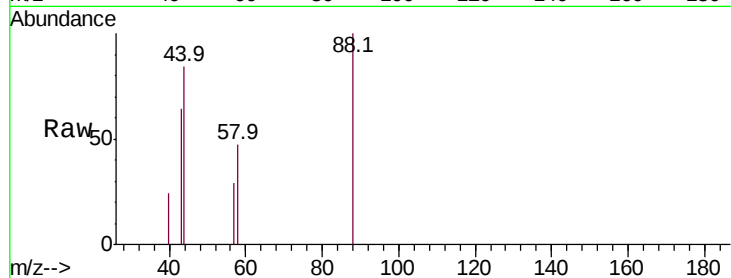




#49
1,4-Dioxane
Concen: 17.177 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

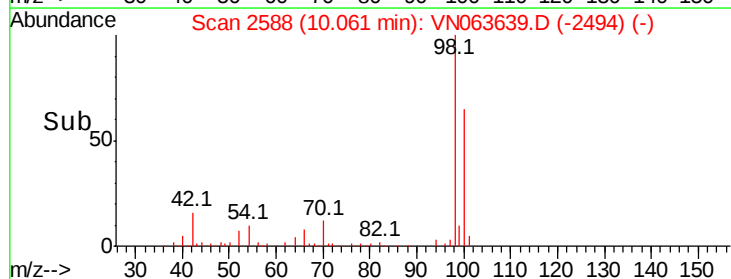
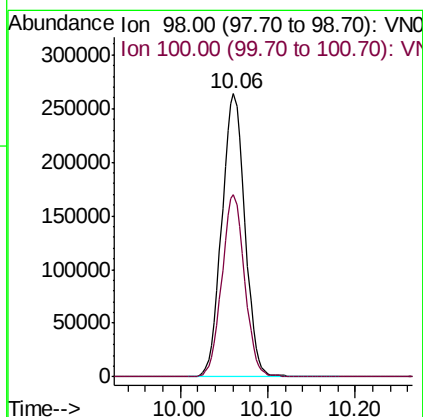
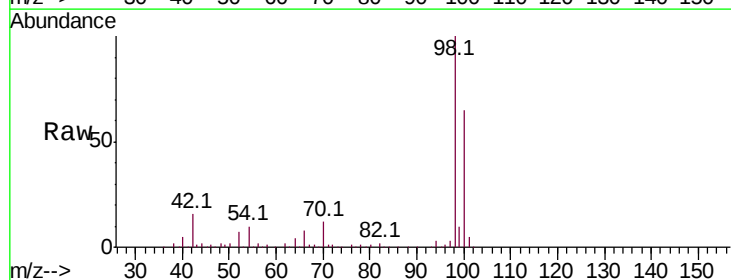
Instrument :
MSVOA_N
ClientSampleId :
TT101D-20200922

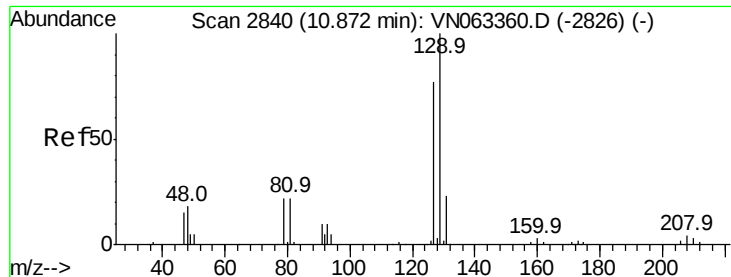
Tot Ion: 88 Resp: 848
Ion Ratio Lower Upper
88 100
43 31.7 32.6 49.0#
58 57.1 60.0 90.0#



#50
Toluene-d8
Concen: 49.721 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

Tgt Ion: 98 Resp: 484721
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1





#60

Dibromochloromethane

Concen: 0.229 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

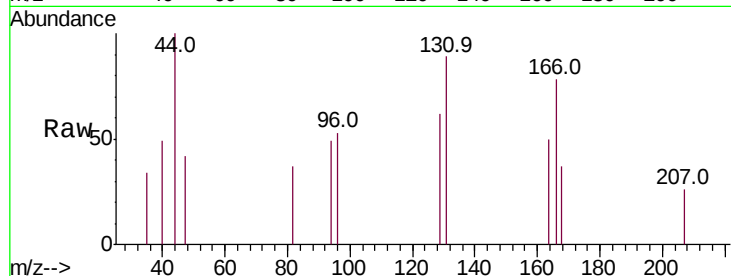
TT101D-20200922

Tot Ion:129 Resp: 705

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.60

400

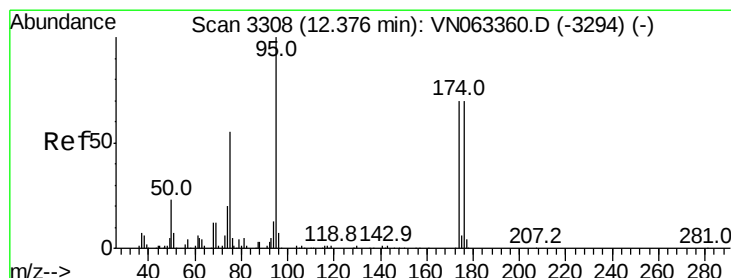
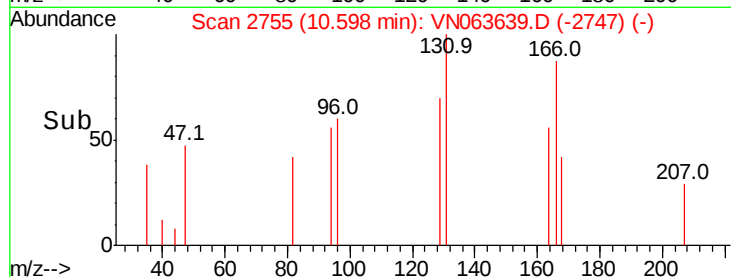
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.111 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

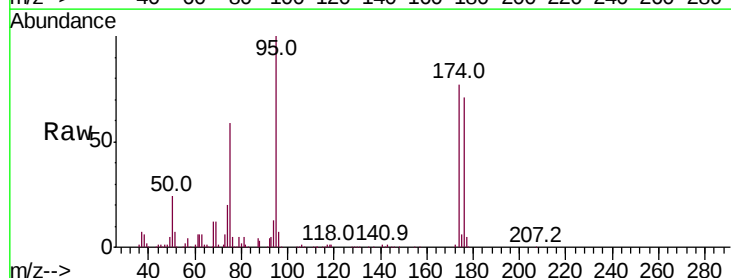
Tgt Ion: 95 Resp: 186232

Ion Ratio Lower Upper

95 100

174 74.4 0.0 140.8

176 70.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

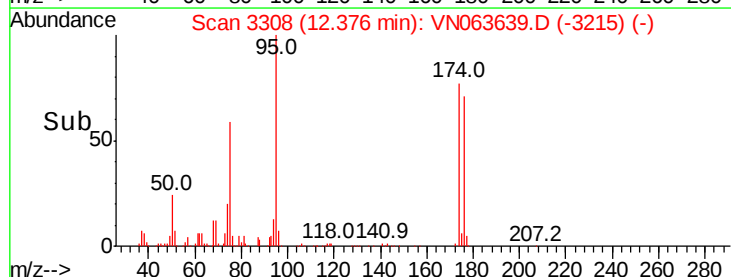
150000

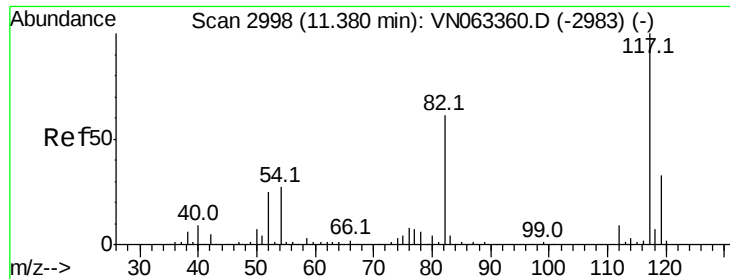
100000

50000

0

Time-->

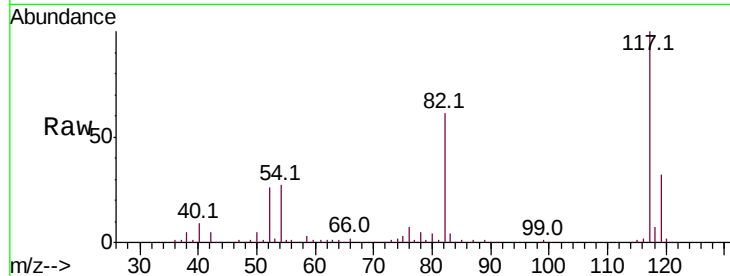




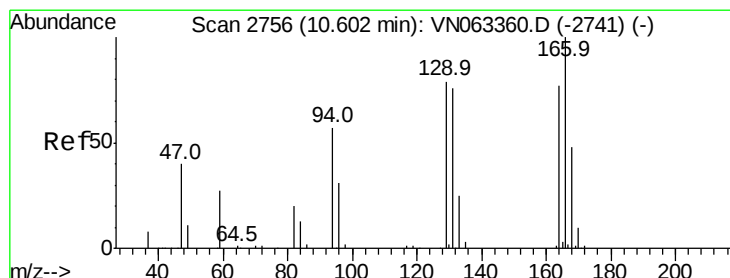
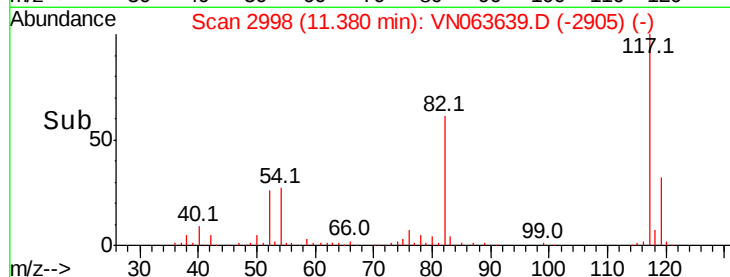
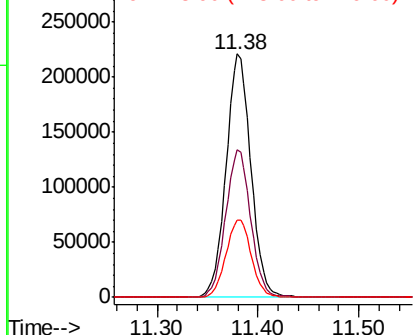
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

Instrument :
MSVOA_N
ClientSampleId :
TT101D-20200922

Tot Ion:117 Resp: 379566
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 31.9 26.2 39.4

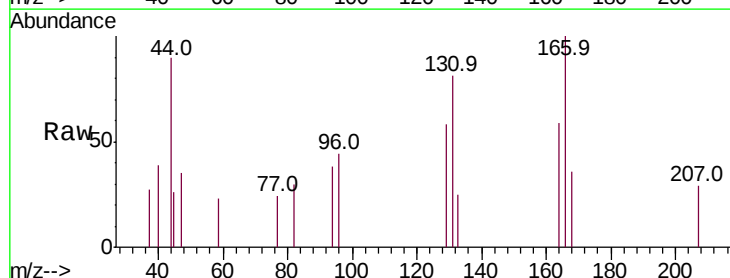


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

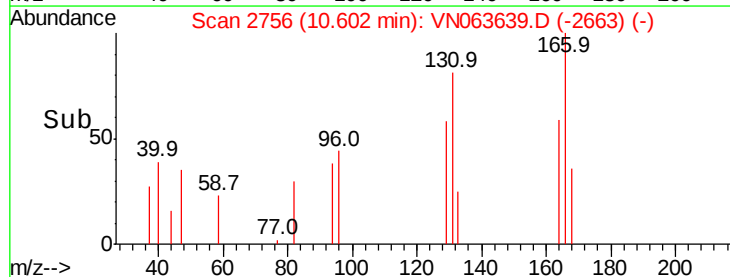
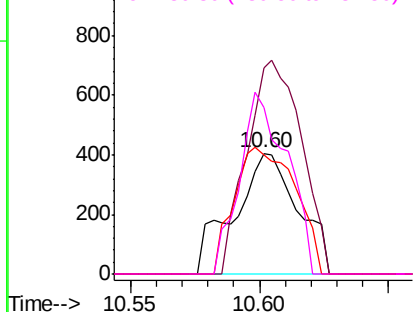


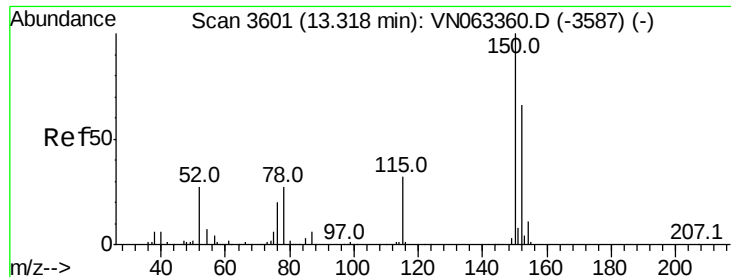
#64
Tetrachloroethene
Concen: 0.272 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VN063639.D
Acq: 24 Sep 2020 19:28

Tgt Ion:164 Resp: 704
Ion Ratio Lower Upper
164 100
166 170.0 103.4 155.0#
129 98.8 81.8 122.6
131 137.2 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

TT101D-20200922

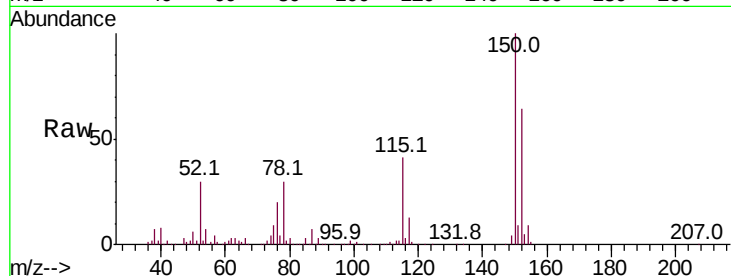
Tot Ion:152 Resp: 160369

Ion Ratio Lower Upper

152 100

115 63.5 32.2 96.6

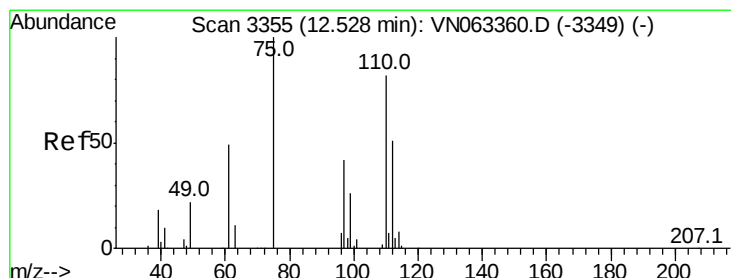
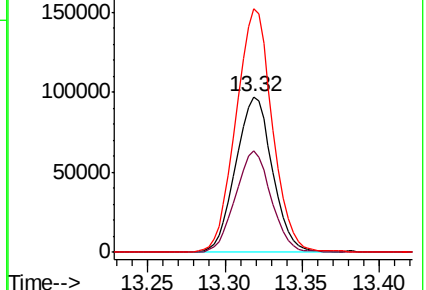
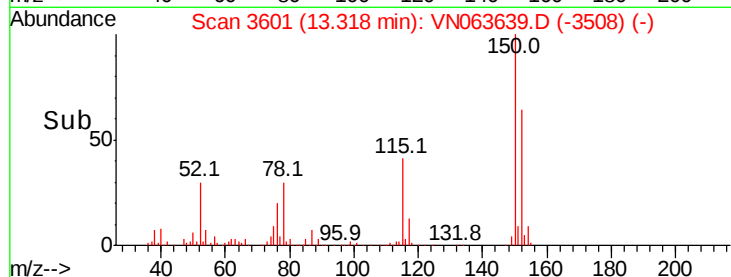
150 155.3 0.0 343.4



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: 26.749 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063639.D

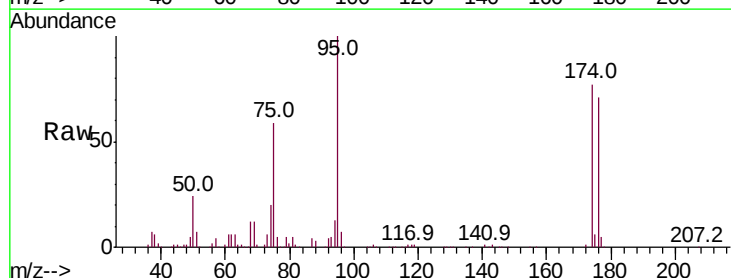
Acq: 24 Sep 2020 19:28

Tgt Ion: 75 Resp: 106176

Ion Ratio Lower Upper

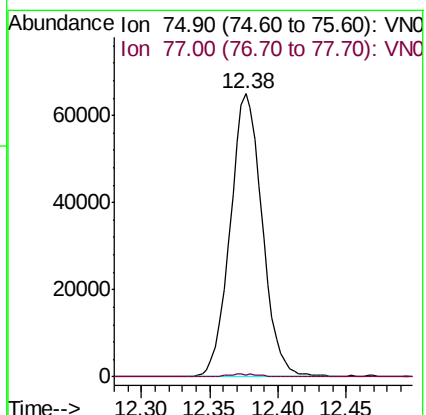
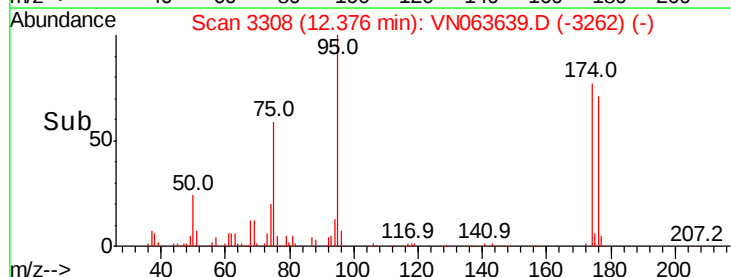
75 100

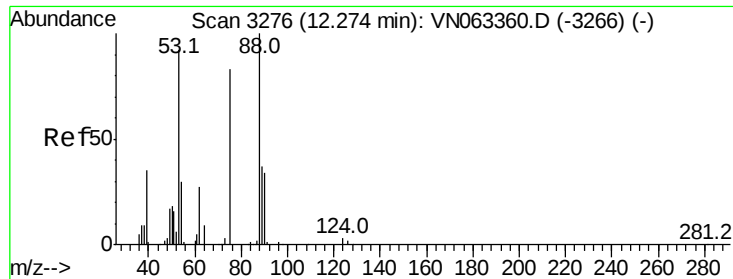
77 1.0 0.0 0.0#



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: 73.335 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063639.D

Acq: 24 Sep 2020 19:28

Instrument :

MSVOA_N

ClientSampleId :

TT101D-20200922

Tot Ion: 75 Resp: 106176

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

