

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063547.D
 Acq On : 22 Sep 2020 20:54
 Operator : JC/MD
 Sample : L4082-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20200916

Quant Time: Sep 23 04:03:23 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	218964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409363	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	412802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171143	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	182173	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
35) Dibromofluoromethane	7.55	113	133108	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	
50) Toluene-d8	10.06	98	525053	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.38	95	208693	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	

Target Compounds

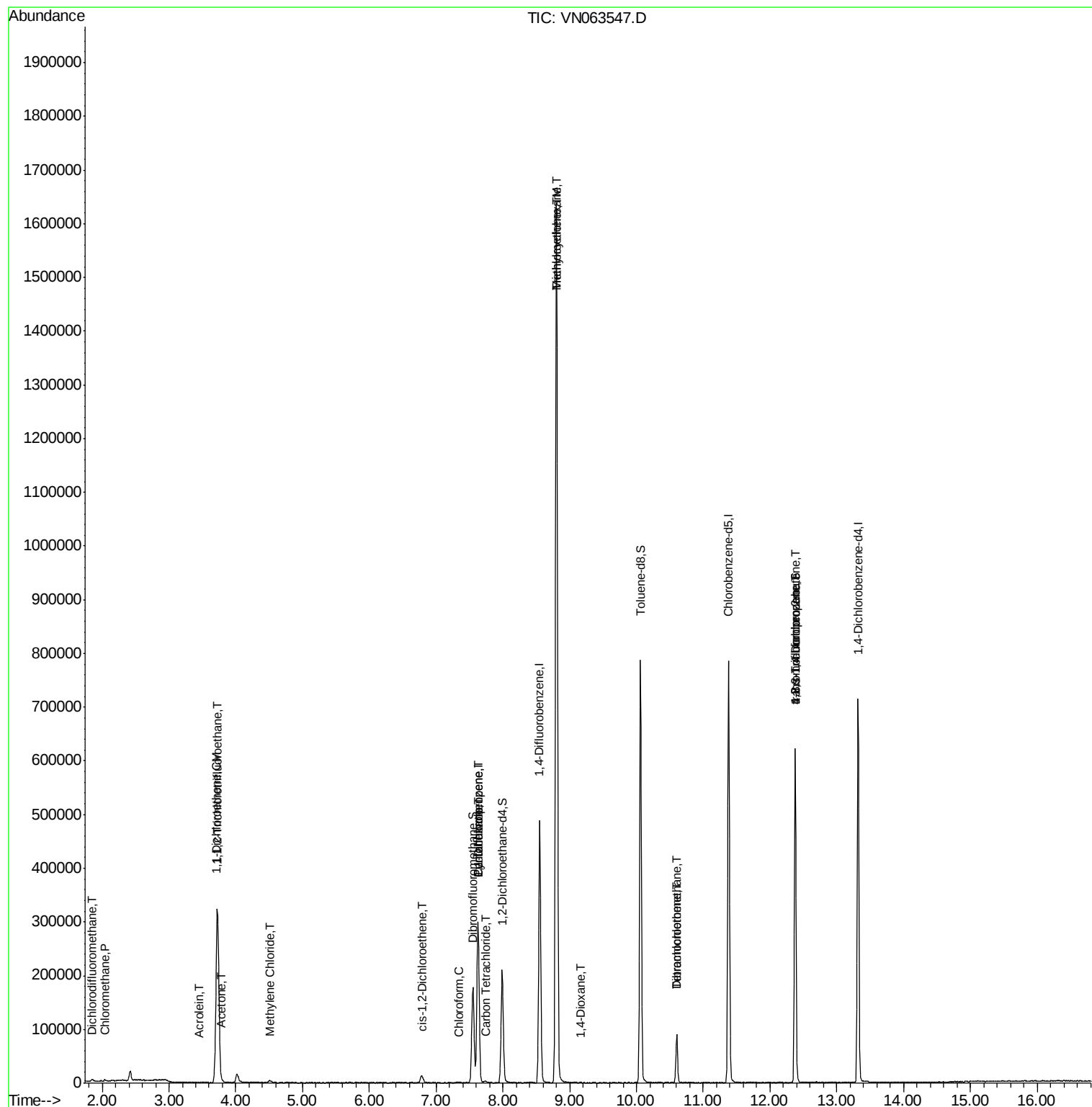
						Qvalue
2) Dichlorodifluoromethane	1.83	85	936	0.377	ug/l	83
3) Chloromethane	2.04	50	2677	0.816	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	195995	80.340	ug/l	99
12) 1,1-Dichloroethene	3.71	96	1683	0.681	ug/l	81
13) Acrolein	3.44	56	71	0.371	ug/l #	13
16) Acetone	3.78	43	4308	3.596	ug/l	99
20) Methylene Chloride	4.51	84	2476	0.816	ug/l #	59
27) cis-1,2-Dichloroethene	6.79	96	6936	2.238	ug/l	78
30) Chloroform	7.33	83	1779	0.326	ug/l	91
31) Cyclohexane	7.62	56	5795	1.126	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	21205	4.862	ug/l #	50
38) Carbon Tetrachloride	7.75	117	1819	0.409	ug/l #	85
39) Methylcyclohexane	8.80	83	7996	1.689	ug/l #	1
44) Trichloroethene	8.80	130	544532	180.333	ug/l	99
49) 1,4-Dioxane	9.17	88	368	6.820	ug/l #	41
60) Dibromochloromethane	10.60	129	18673	5.559	ug/l #	10
64) Tetrachloroethene	10.60	164	18997	6.758	ug/l	94
76) 1,2,3-Trichloropropane	12.38	75	115128	27.178	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115128	74.513	ug/l #	7

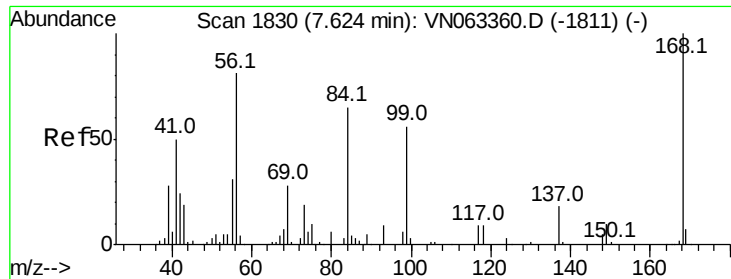
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1831

Delta R.T. 0.00 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

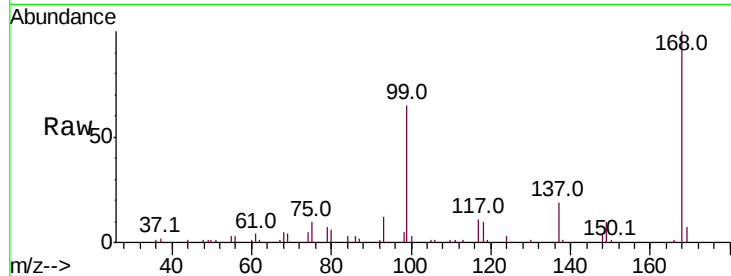
RE125D3-20200916

Tot Ion:168 Resp: 218964

Ion Ratio Lower Upper

168 100

99 65.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

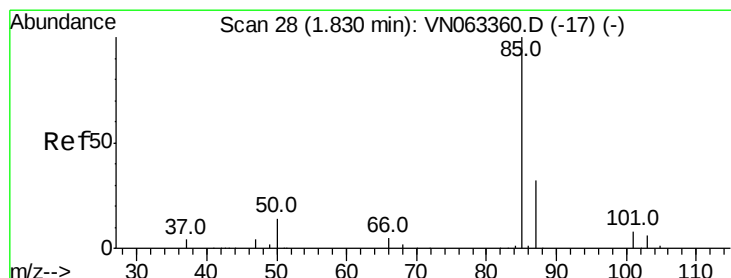
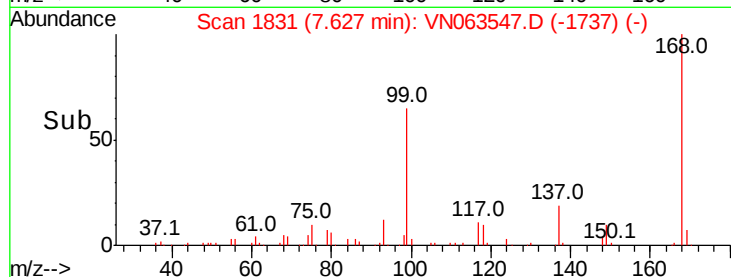
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.377 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063547.D

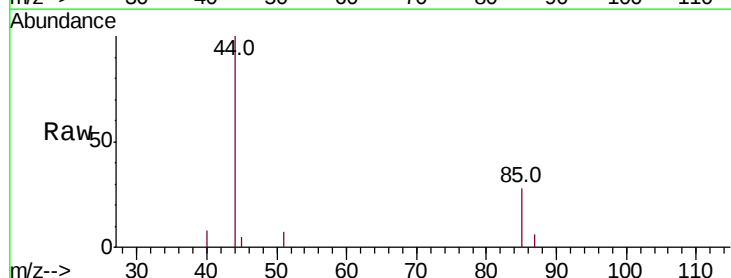
Acq: 22 Sep 2020 20:54

Tgt Ion: 85 Resp: 936

Ion Ratio Lower Upper

85 100

87 22.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1000

800

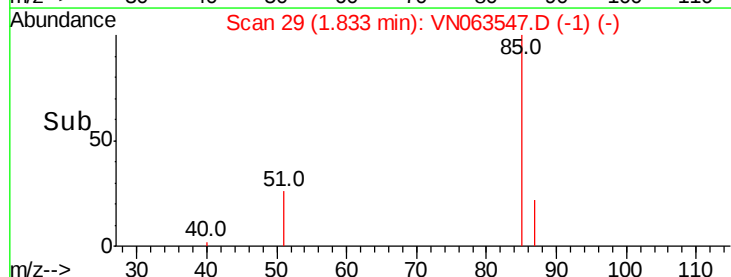
600

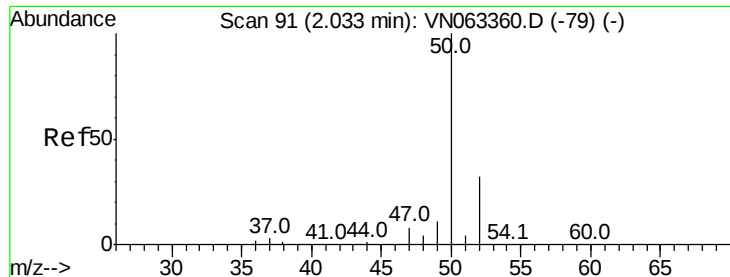
400

200

0

Time-->





#3

Chloromethane

Concen: 0.816 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

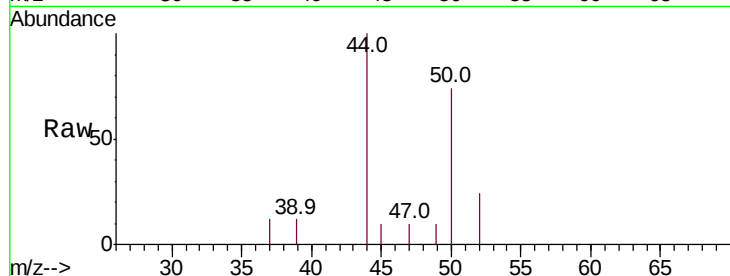
RE125D3-20200916

Tot Ion: 50 Resp: 2677

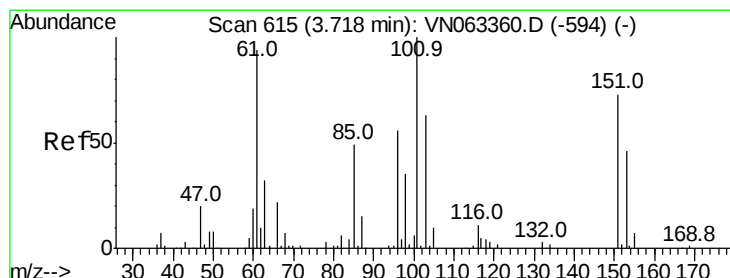
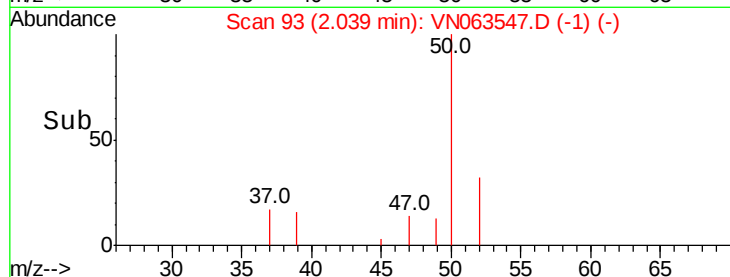
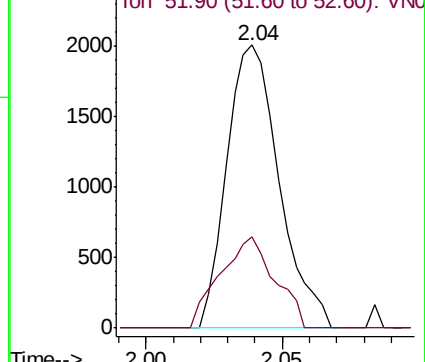
Ion Ratio Lower Upper

50 100

52 32.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN063360.D (-79) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 80.340 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

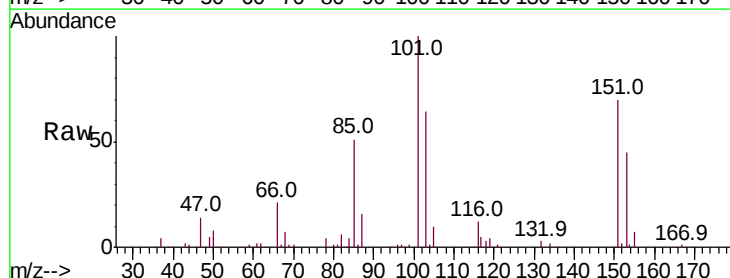
Tgt Ion: 101 Resp: 195995

Ion Ratio Lower Upper

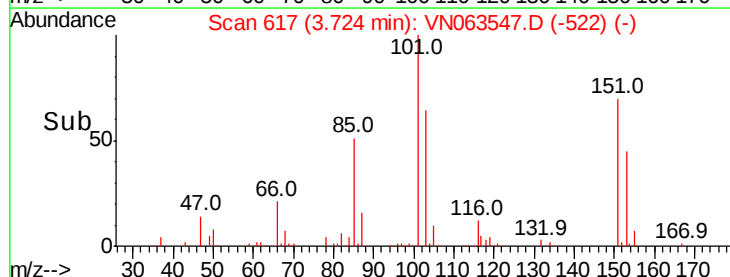
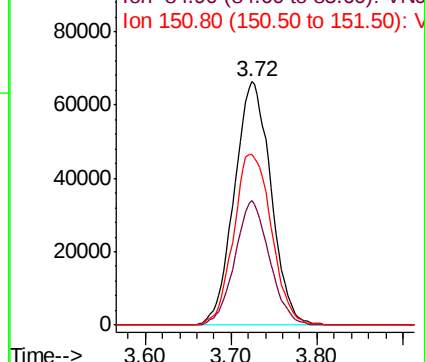
101 100

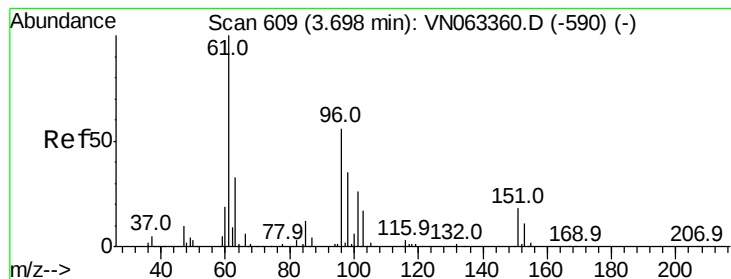
85 48.3 37.7 56.5

151 72.5 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): VN063360.D (-594) (-)





#12

1,1-Dichloroethene

Concen: 0.681 ug/l

RT: 3.71 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200916

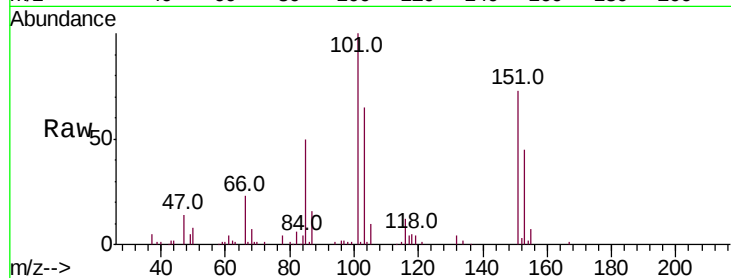
Tot Ion: 96 Resp: 1683

Ion Ratio Lower Upper

96 100

61 146.1 143.4 215.2

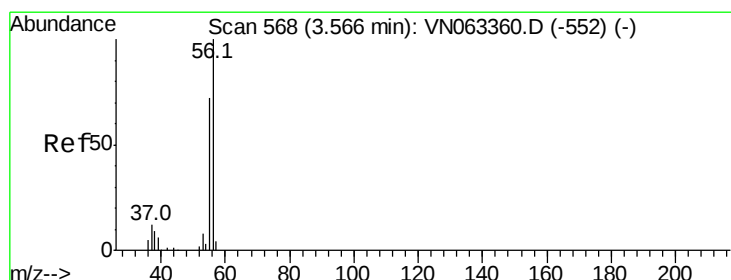
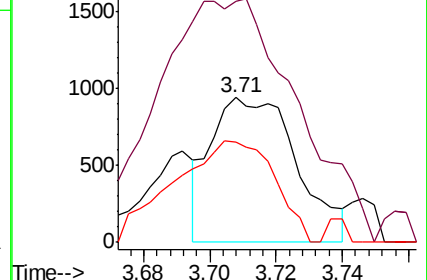
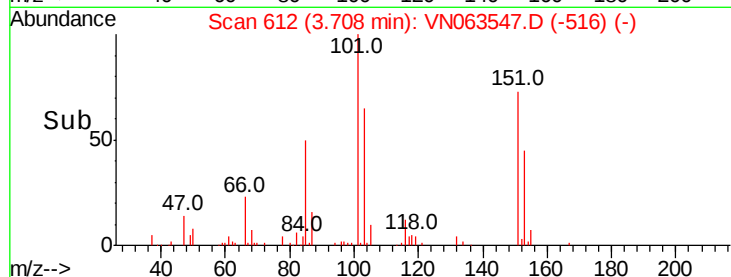
98 68.4 50.6 76.0



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: 0.371 ug/l

RT: 3.44 min Scan# 530

Delta R.T. -0.12 min

Lab File: VN063547.D

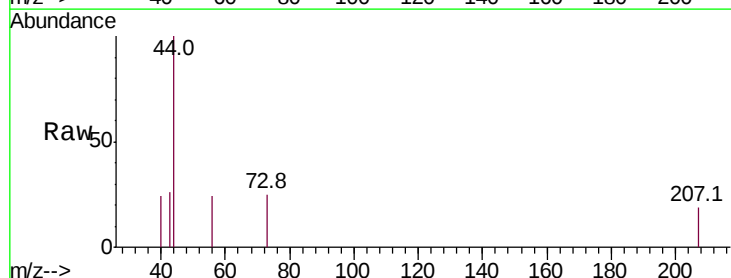
Acq: 22 Sep 2020 20:54

Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

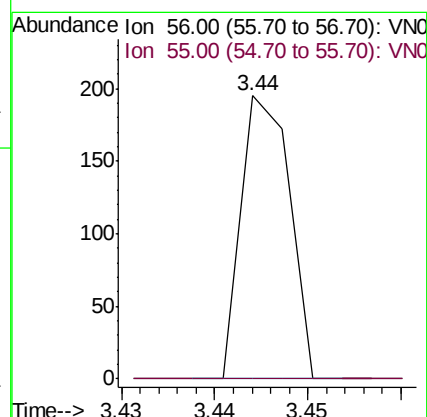
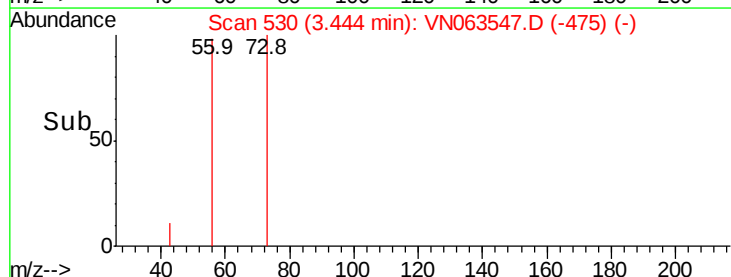
56 100

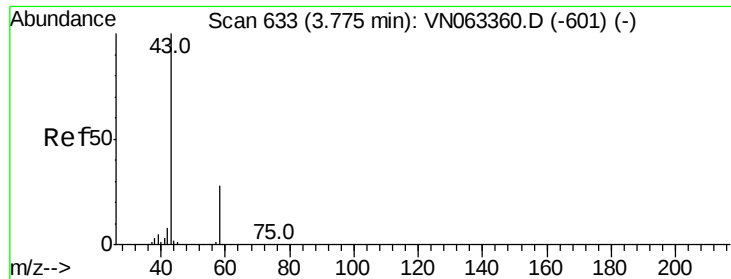
55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 3.596 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

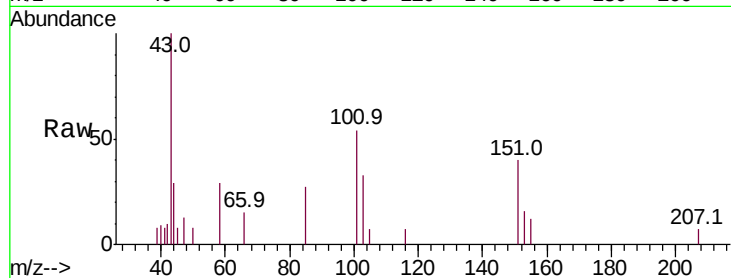
RE125D3-20200916

Tot Ion: 43 Resp: 4308

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2500

2000

1500

1000

500

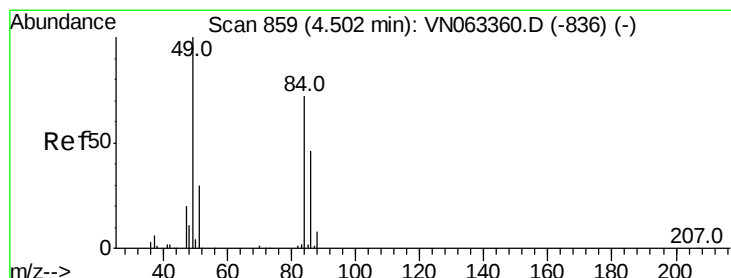
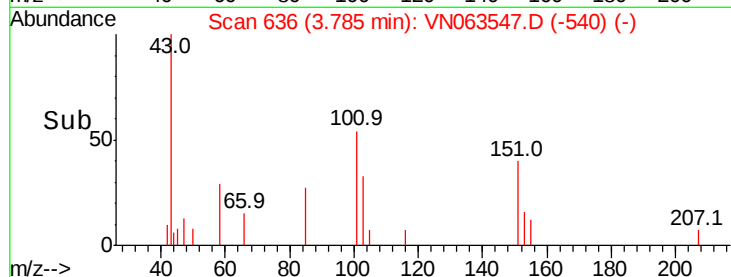
0

Time-->

3.75

3.80

3.85



#20

Methylene Chloride

Concen: 0.816 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Tgt Ion: 84 Resp: 2476

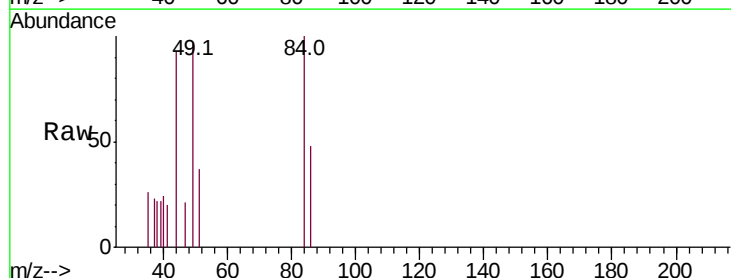
Ion Ratio Lower Upper

84 100

49 76.7 110.7 166.1#

51 18.2 32.9 49.3#

86 47.9 51.1 76.7#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

1500

1000

500

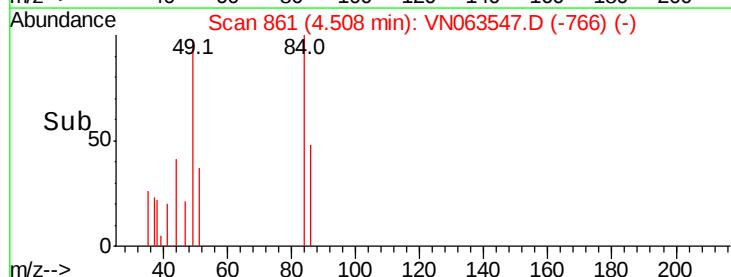
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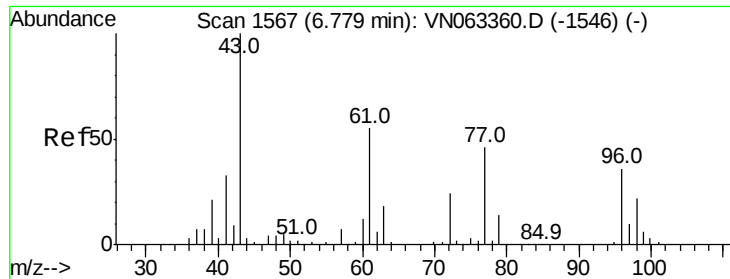
Time-->

4.45

4.50

4.55





#27

cis-1,2-Dichloroethene

Concen: 2.238 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

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RE125D3-20200916

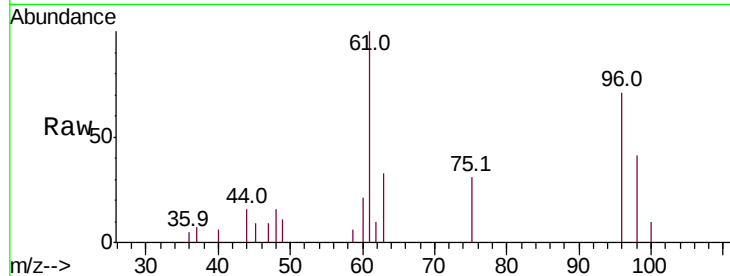
Tot Ion: 96 Resp: 6936

Ion Ratio Lower Upper

96 100

61 145.5 0.0 319.6

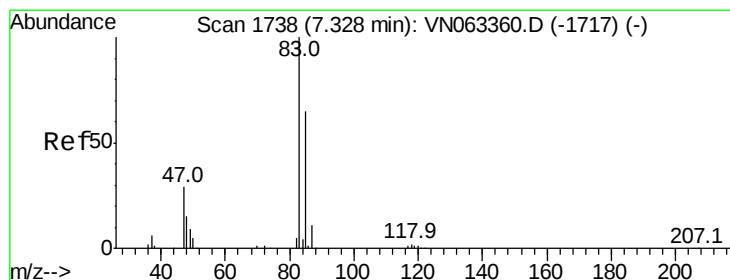
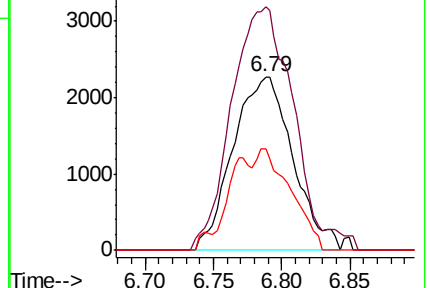
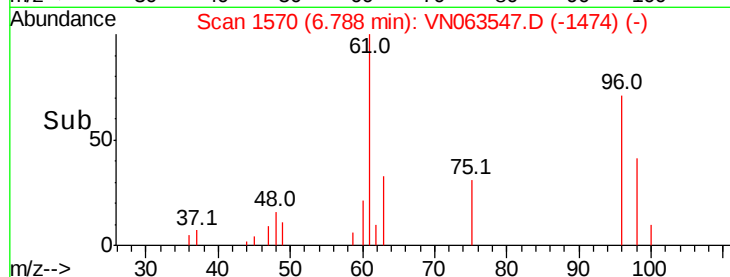
98 24.3 0.0 127.8



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



#30

Chloroform

Concen: 0.326 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN063547.D

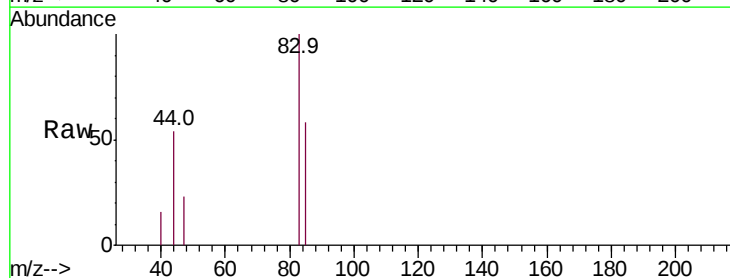
Acq: 22 Sep 2020 20:54

Tgt Ion: 83 Resp: 1779

Ion Ratio Lower Upper

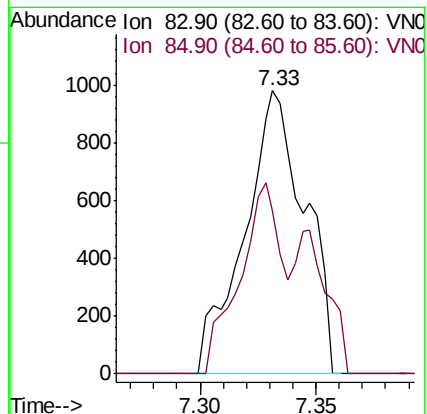
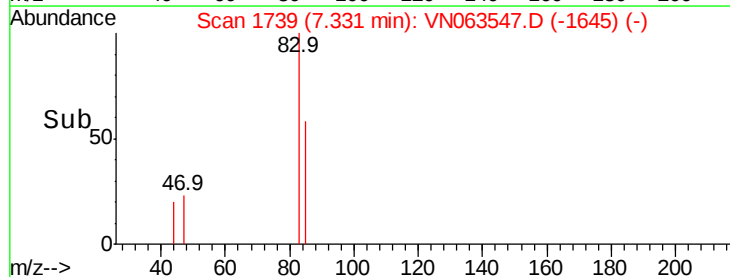
83 100

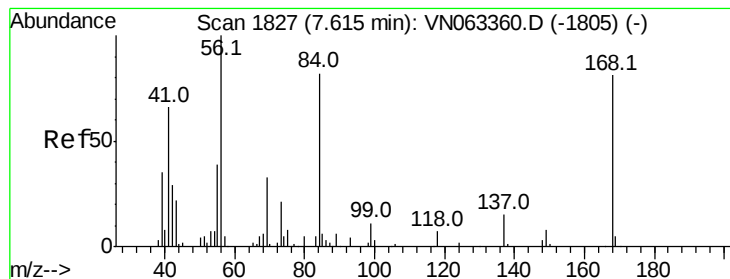
85 57.7 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.126 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063547.D

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Instrument :

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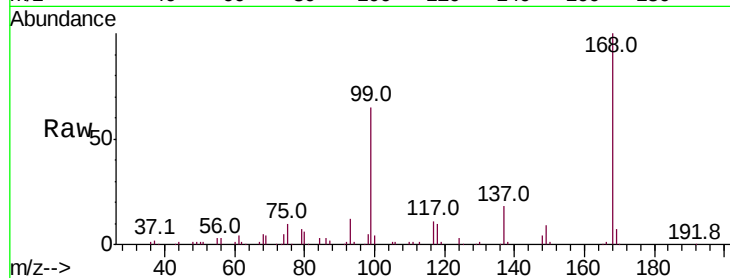
Tot Ion: 56 Resp: 5795

Ion Ratio Lower Upper

56 100

69 143.2 26.1 39.1#

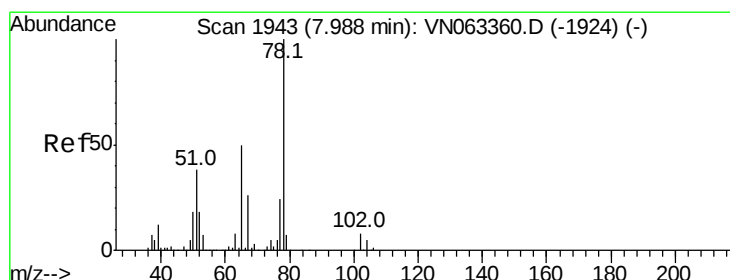
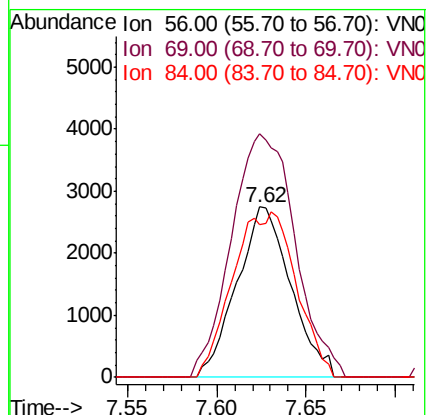
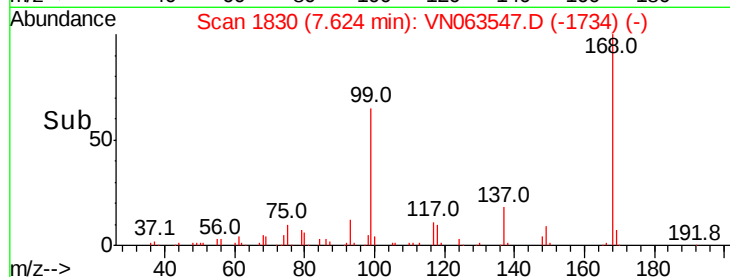
84 89.8 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.875 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063547.D

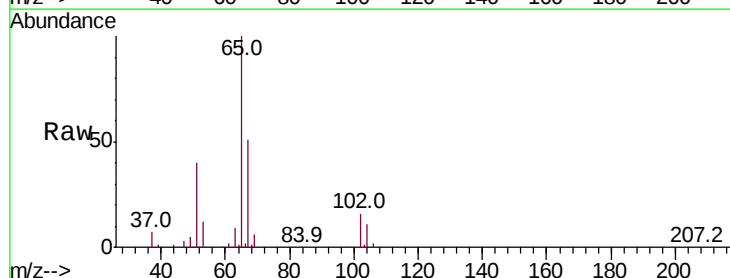
Acq: 22 Sep 2020 20:54

Tgt Ion: 65 Resp: 182173

Ion Ratio Lower Upper

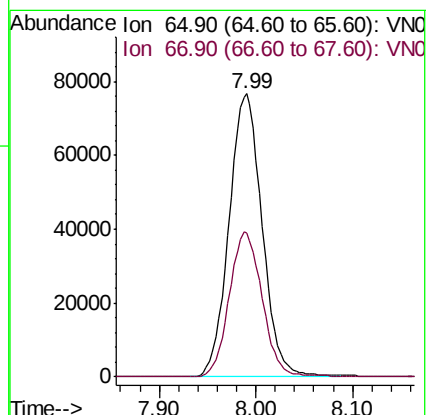
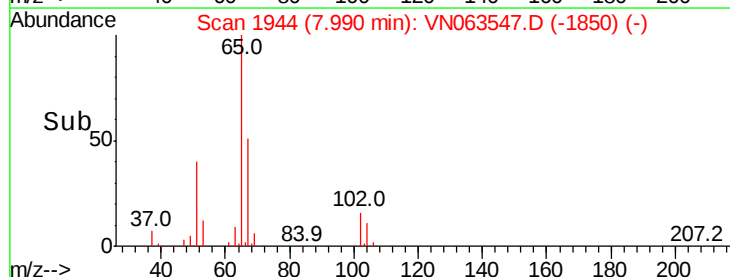
65 100

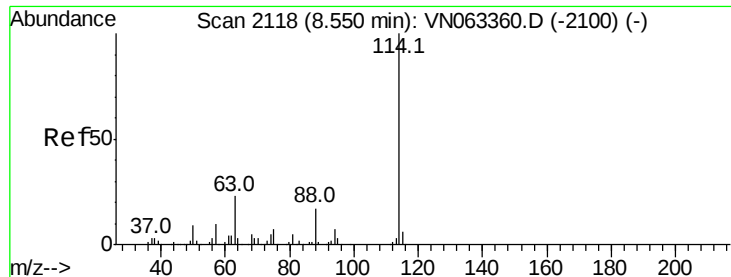
67 50.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

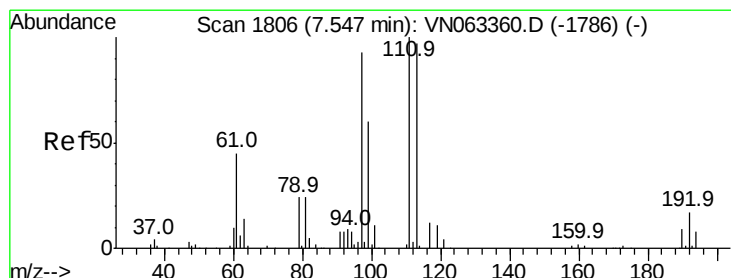
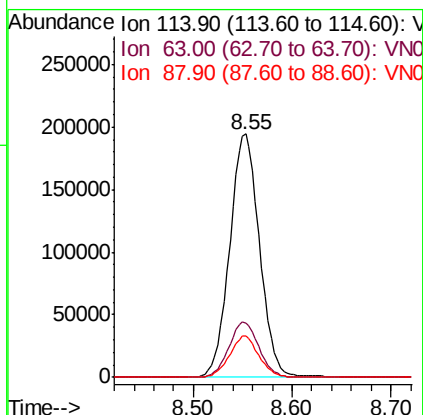
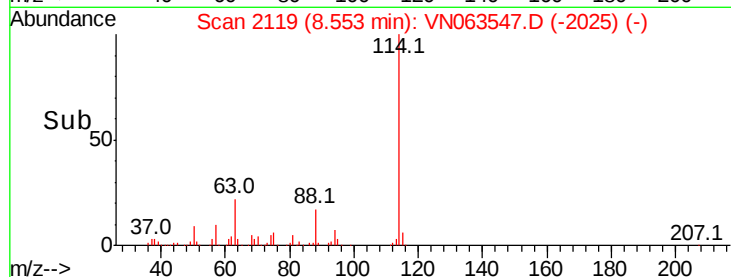
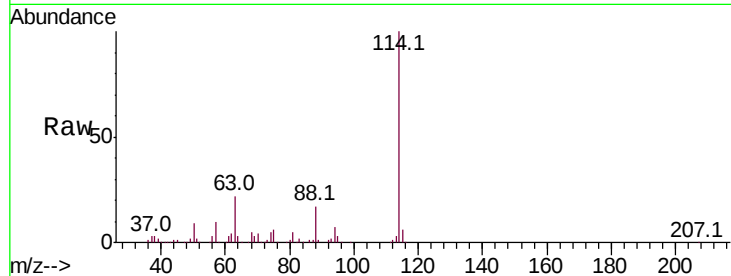




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

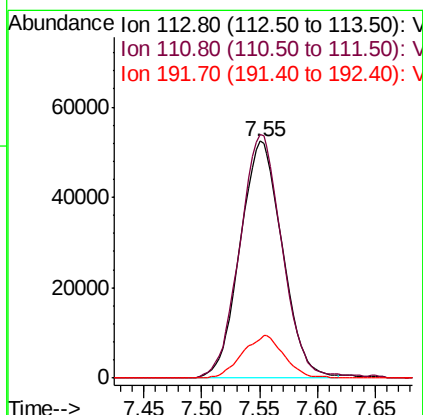
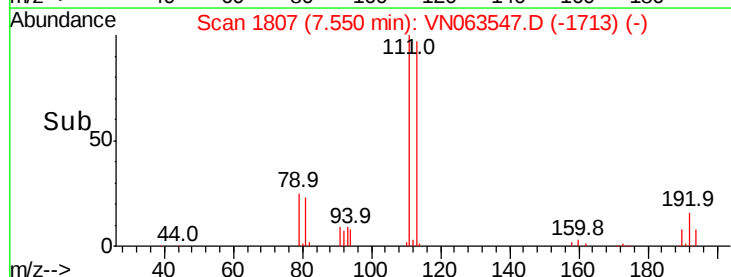
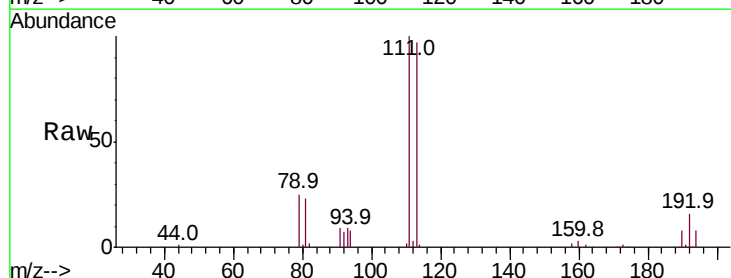
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200916

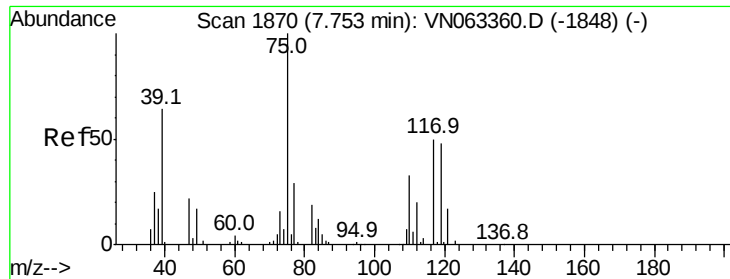
Tot Ion:114 Resp: 409363
Ion Ratio Lower Upper
114 100
63 22.5 0.0 46.4
88 16.8 0.0 33.2



#35
Dibromofluoromethane
Concen: 46.969 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

Tgt Ion:113 Resp: 133108
Ion Ratio Lower Upper
113 100
111 103.2 82.9 124.3
192 17.8 13.9 20.9





#36

1,1-Dichloropropene

Concen: 4.862 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200916

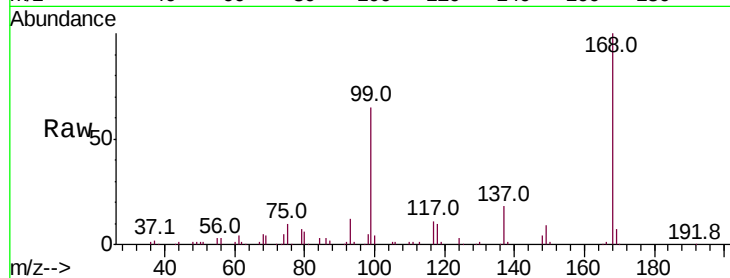
Tot Ion: 75 Resp: 21205

Ion Ratio Lower Upper

75 100

110 7.4 16.5 49.5#

77 0.0 24.6 36.8#



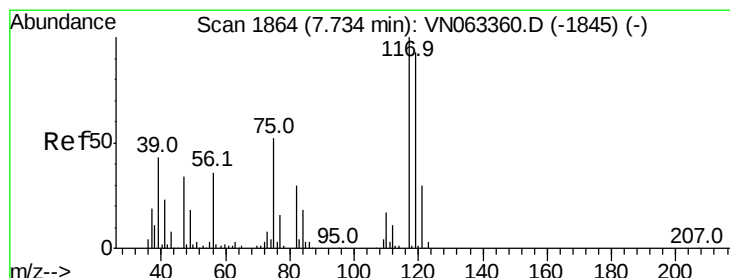
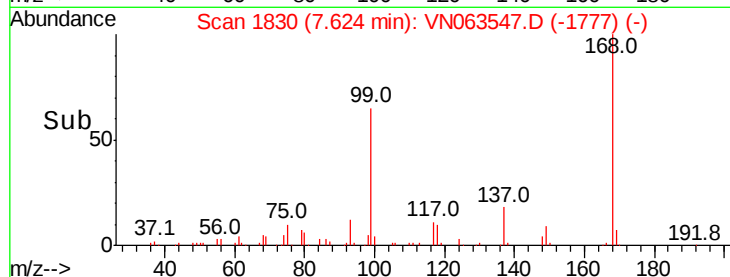
Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

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

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

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 0.409 ug/l

RT: 7.75 min Scan# 1868

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

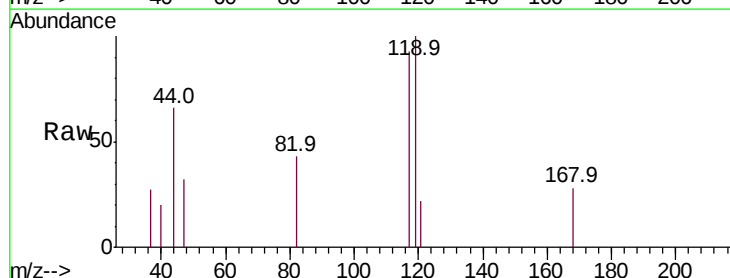
Tgt Ion: 117 Resp: 1819

Ion Ratio Lower Upper

117 100

119 107.8 74.5 111.7

121 23.3 24.1 36.1#



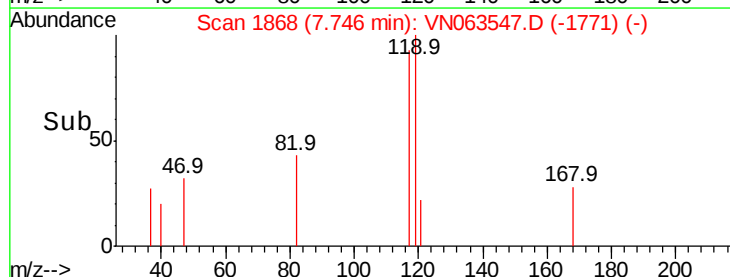
Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

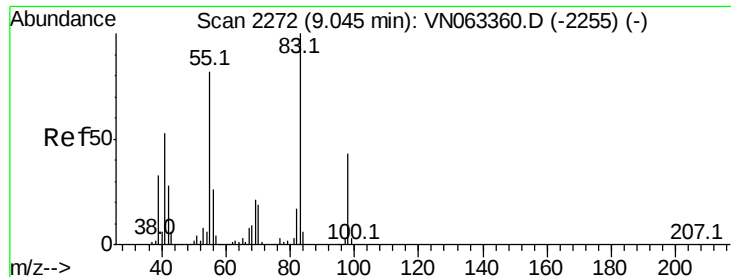
Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

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

7.75

Time-->

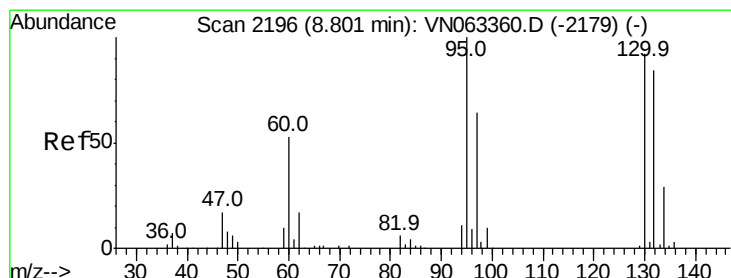
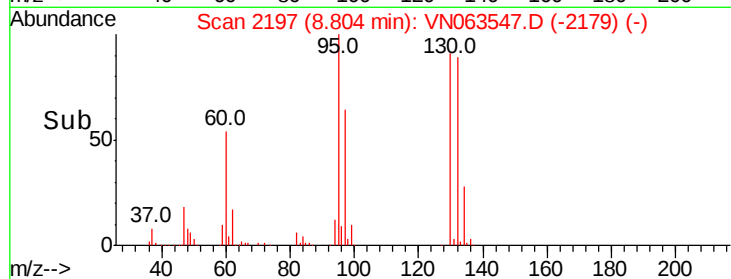
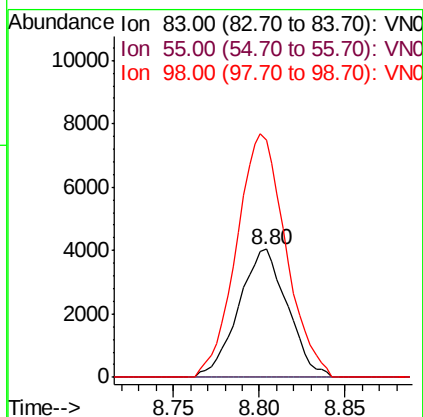
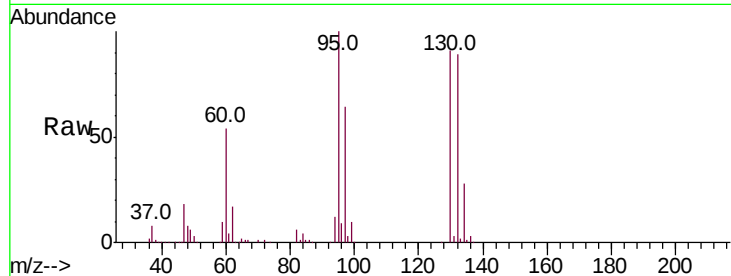




#39
Methylcyclohexane
Concen: 1.689 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

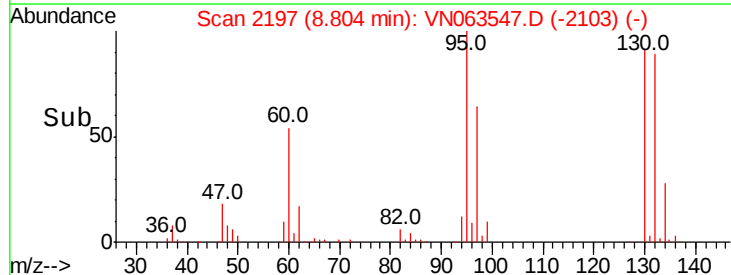
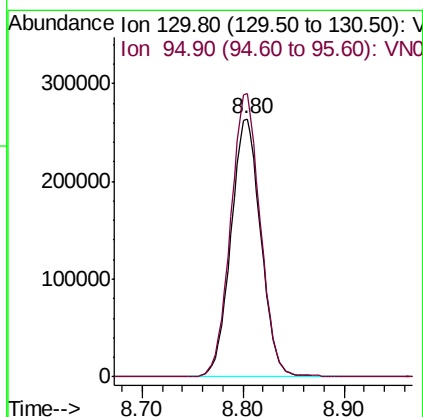
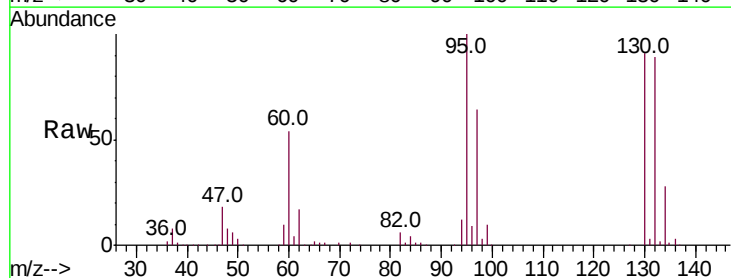
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200916

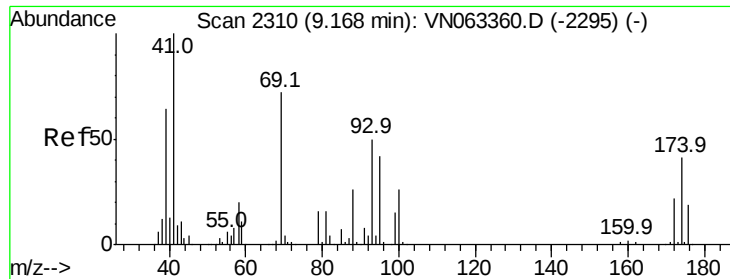
Tot Ion: 83 Resp: 7996
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 184.9 34.2 51.4#



#44
Trichloroethene
Concen: 180.333 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

Tgt Ion: 130 Resp: 544532
Ion Ratio Lower Upper
130 100
95 109.8 0.0 217.4





#49

1,4-Dioxane

Concen: 6.820 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200916

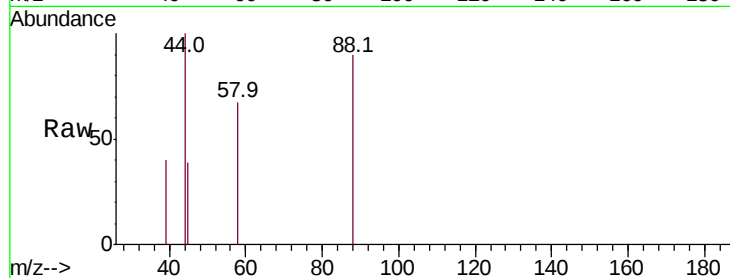
Tot Ion: 88 Resp: 368

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

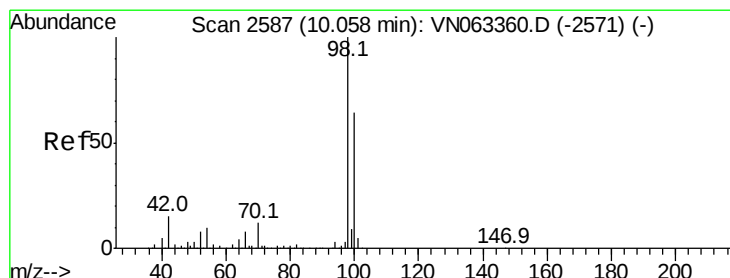
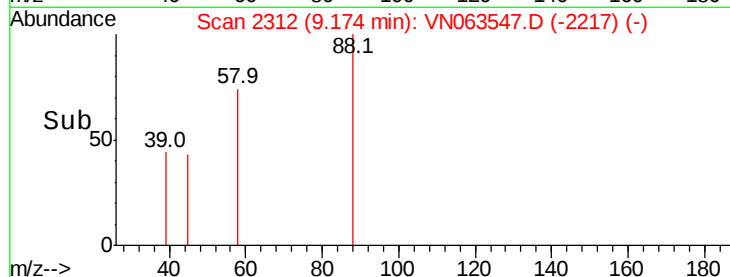
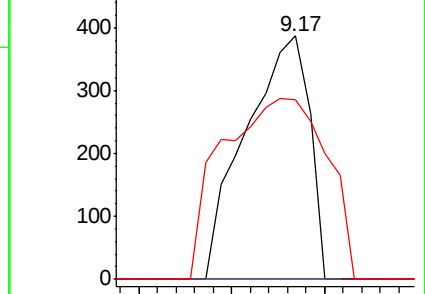
58 122.3 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.272 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063547.D

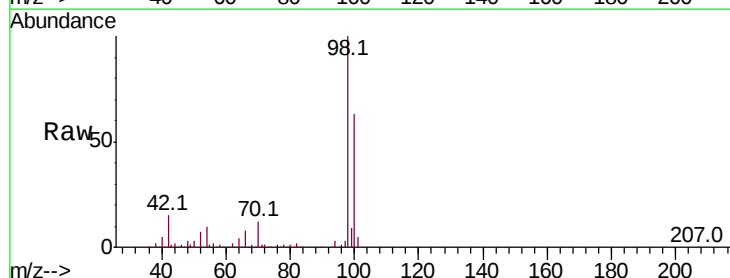
Acq: 22 Sep 2020 20:54

Tgt Ion: 98 Resp: 525053

Ion Ratio Lower Upper

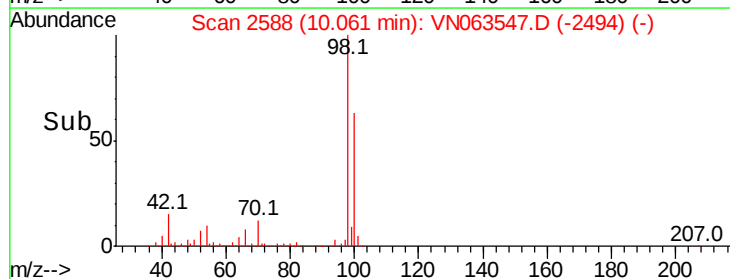
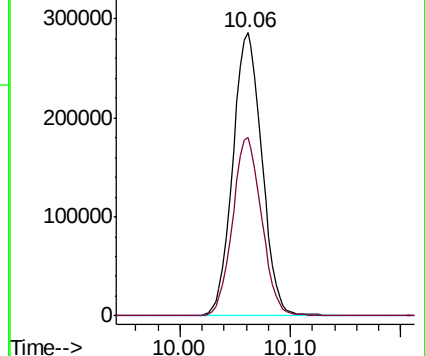
98 100

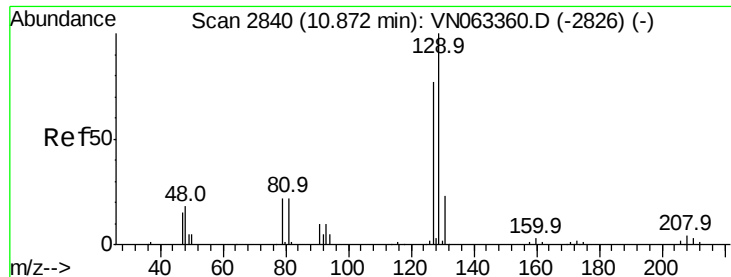
100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#60

Dibromochloromethane

Concen: 5.559 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

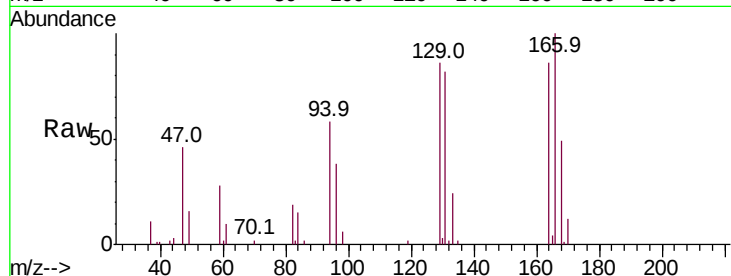
RE125D3-20200916

Tot Ion:129 Resp: 18673

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

12000

10000

8000

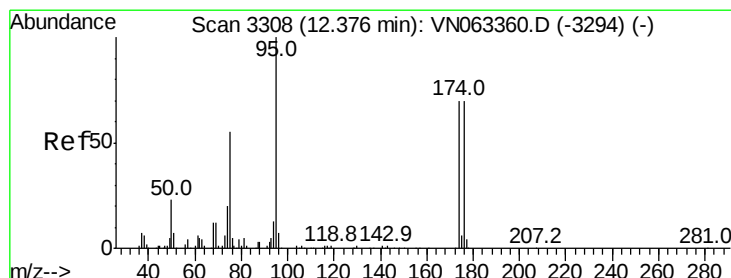
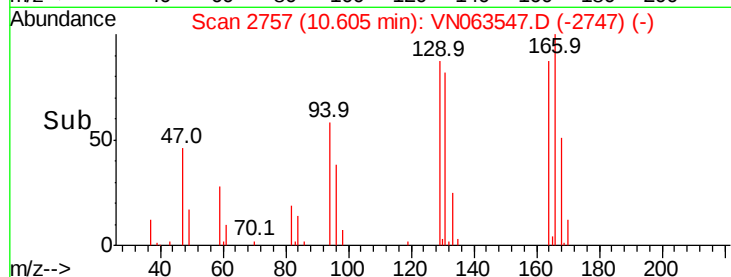
6000

4000

2000

0

Time--> 10.55 10.60 10.65



#62

4-Bromofluorobenzene

Concen: 53.424 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

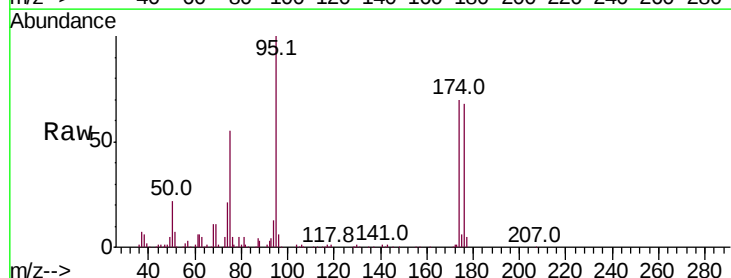
Tgt Ion: 95 Resp: 208693

Ion Ratio Lower Upper

95 100

174 71.1 0.0 140.8

176 68.6 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

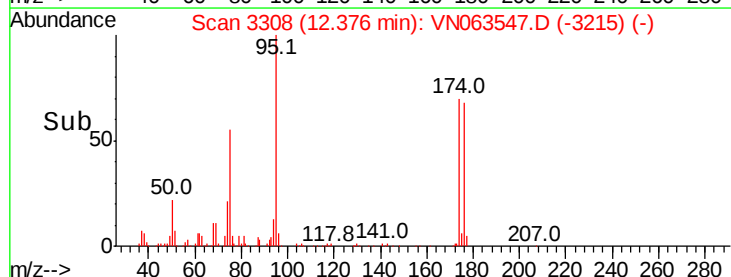
150000

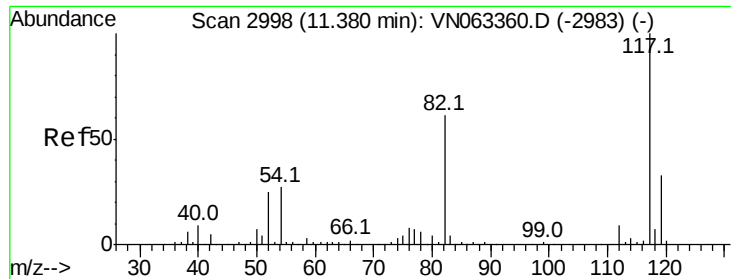
100000

50000

0

Time--> 12.30 12.35 12.40 12.45

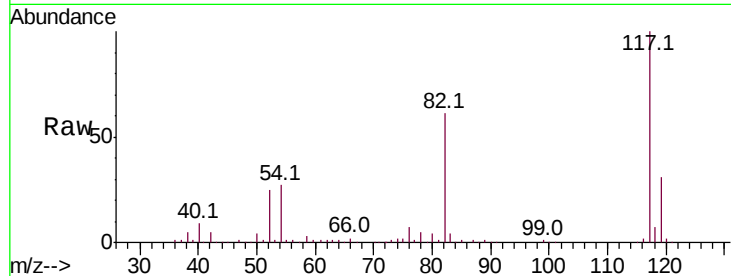




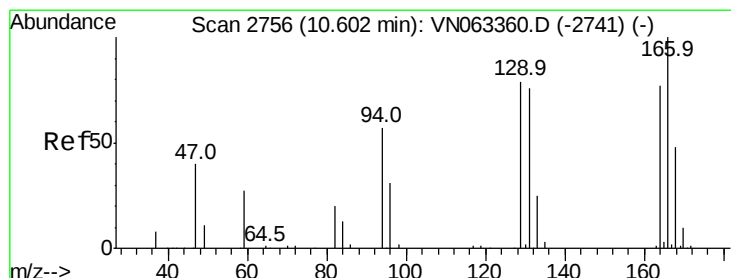
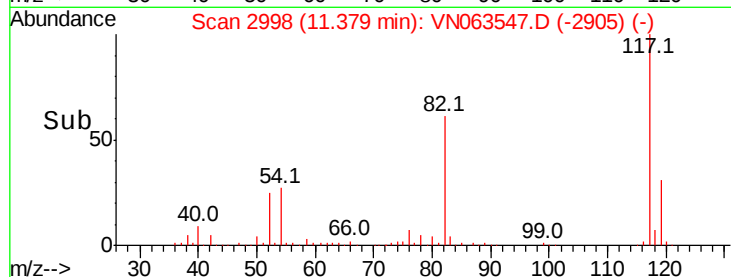
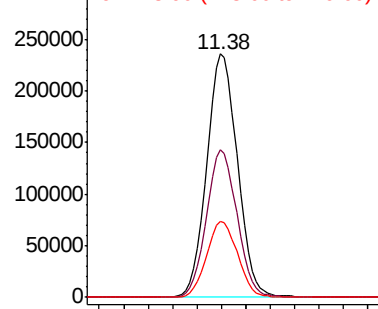
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200916

Tot Ion:117 Resp: 412802
Ion Ratio Lower Upper
117 100
82 60.6 49.2 73.8
119 31.3 26.2 39.4

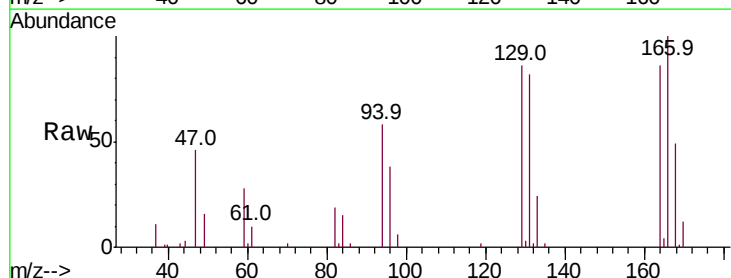


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

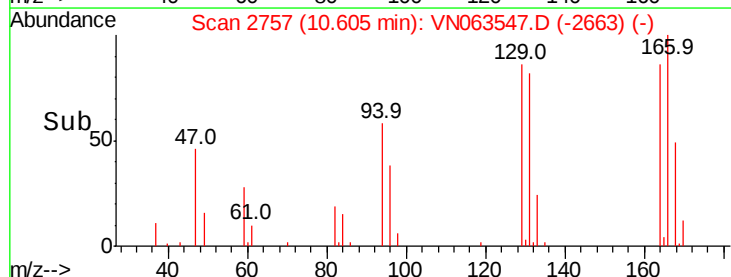
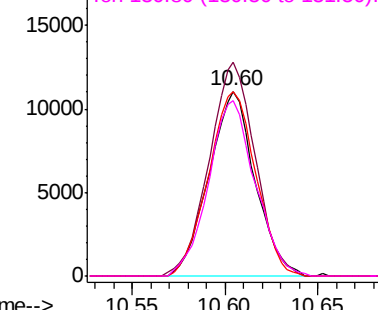


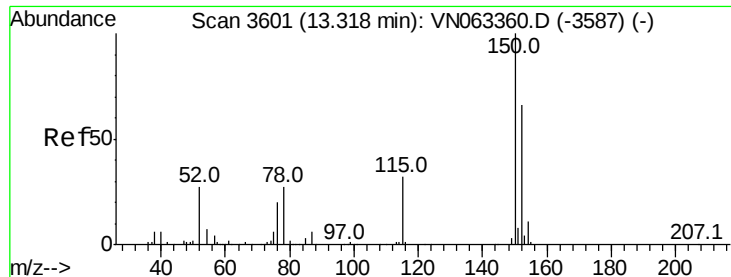
#64
Tetrachloroethene
Concen: 6.758 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063547.D
Acq: 22 Sep 2020 20:54

Tgt Ion:164 Resp: 18997
Ion Ratio Lower Upper
164 100
166 115.8 103.4 155.0
129 99.6 81.8 122.6
131 95.2 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: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200916

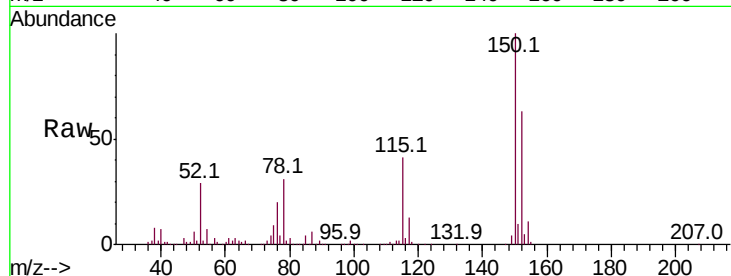
Tot Ion:152 Resp: 171143

Ion Ratio Lower Upper

152 100

115 65.3 32.2 96.6

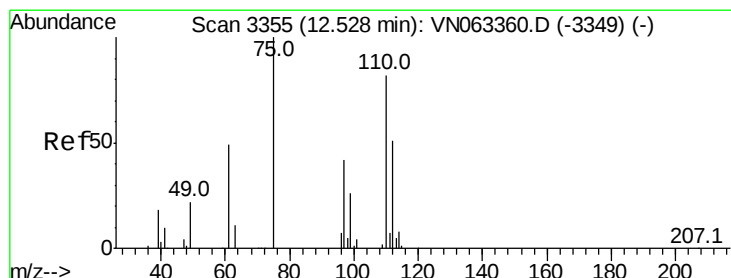
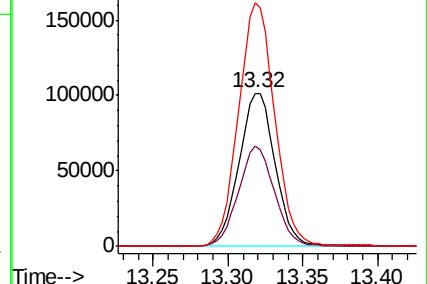
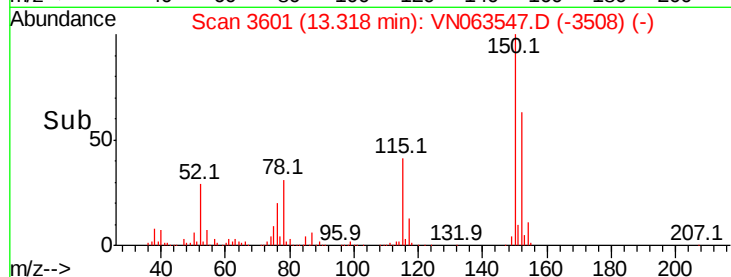
150 160.0 0.0 343.4



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: 27.178 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063547.D

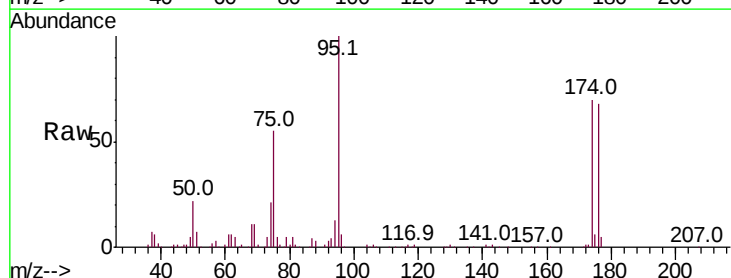
Acq: 22 Sep 2020 20:54

Tgt Ion: 75 Resp: 115128

Ion Ratio Lower Upper

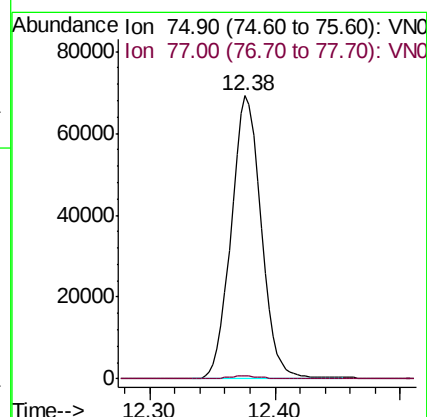
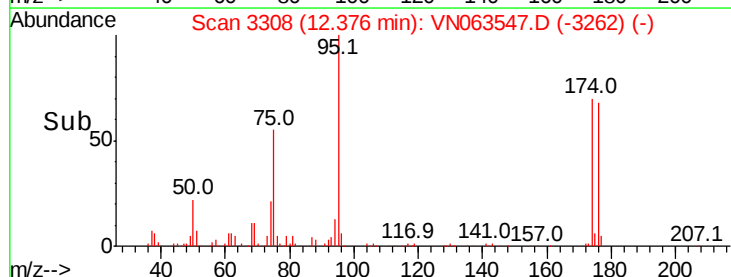
75 100

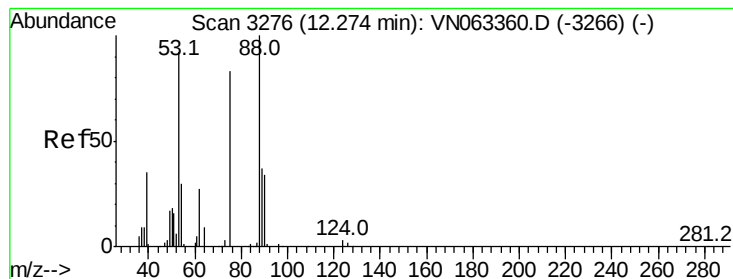
77 1.1 0.0 0.0#



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: 74.513 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063547.D

Acq: 22 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200916

Tot Ion: 75 Resp: 115128

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

