

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063540.D
 Acq On : 22 Sep 2020 18:07
 Operator : JC/MD
 Sample : L4082-21DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20200916DL

Quant Time: Sep 23 04:02:30 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	224275	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	422258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177142	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	190306	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
35) Dibromofluoromethane	7.55	113	135702	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
50) Toluene-d8	10.06	98	534165	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.38	95	210890	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	

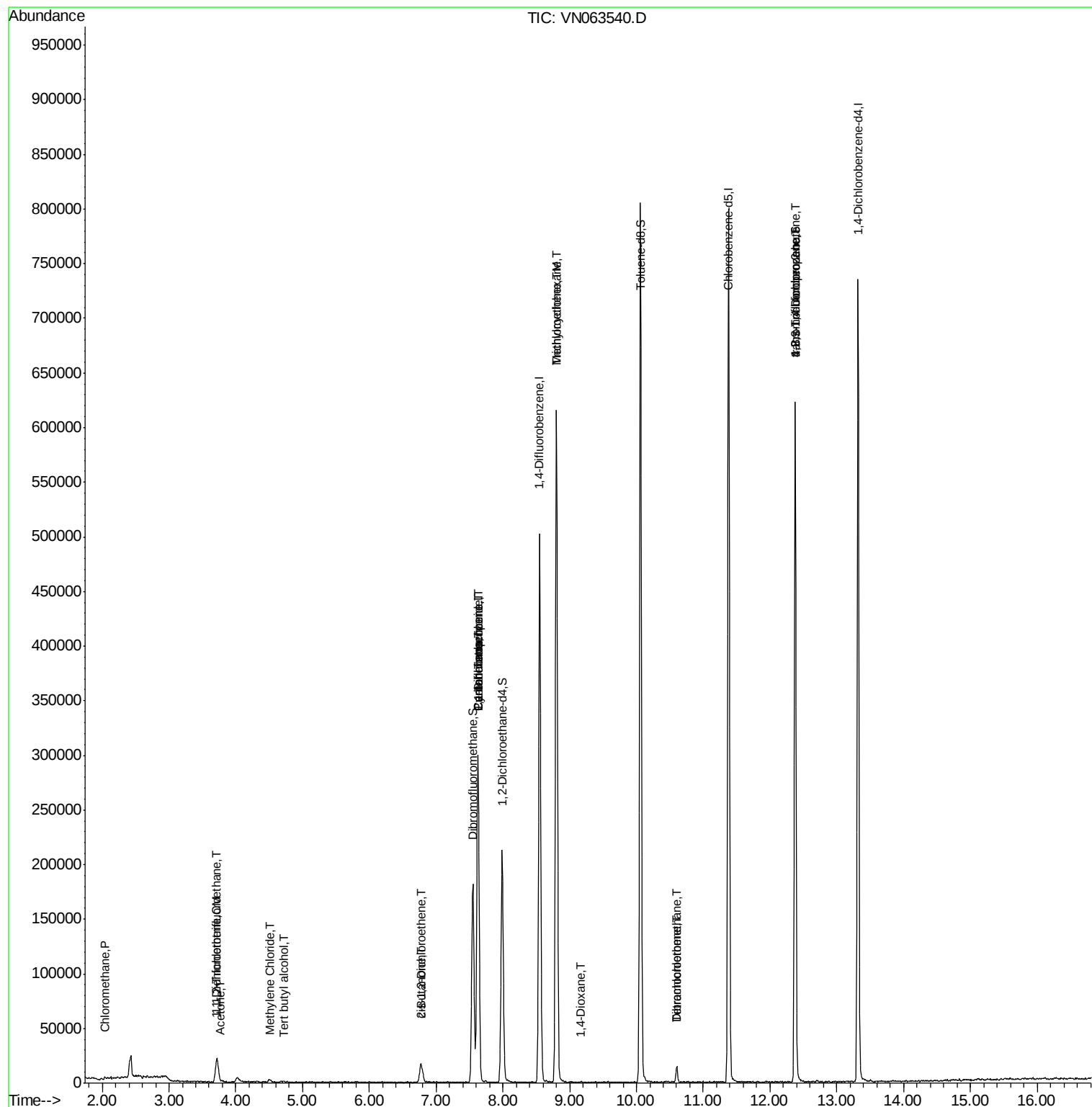
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1115	0.332	ug/l #	82
9) 1,1,2-Trichlorotrifluoroet	3.72	101	11473	4.592	ug/l	99
11) Tert butyl alcohol	4.72	59	225	0.425	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	3116	1.231	ug/l	86
16) Acetone	3.78	43	834	0.680	ug/l #	74
20) Methylene Chloride	4.50	84	719	0.231	ug/l #	74
25) 2-Butanone	6.78	43	552	0.293	ug/l #	51
27) cis-1,2-Dichloroethene	6.77	96	1312	0.413	ug/l	40
31) Cyclohexane	7.63	56	6159	1.168	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21375	4.840	ug/l #	51
38) Carbon Tetrachloride	7.63	117	24561	5.448	ug/l #	18
39) Methylcyclohexane	8.80	83	2871	0.599	ug/l #	1
44) Trichloroethene	8.80	130	207483	67.855	ug/l	97
49) 1,4-Dioxane	9.18	88	191	3.495	ug/l #	5
60) Dibromochloromethane	10.60	129	3030	0.891	ug/l #	10
64) Tetrachloroethene	10.60	164	2880	1.002	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	117825	26.873	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117825	73.676	ug/l #	7

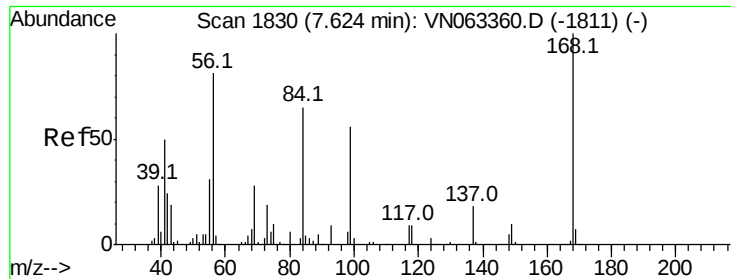
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

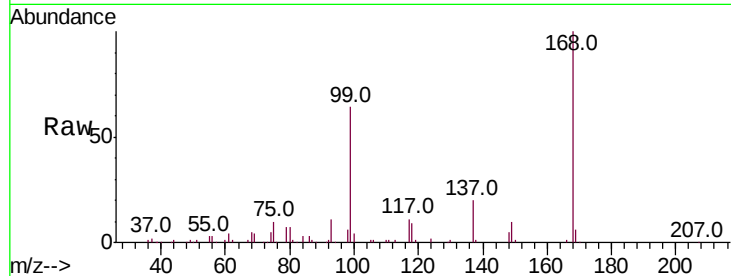
RE125D2-20200916DL

Tot Ion:168 Resp: 224275

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): VN

7.63

100000

80000

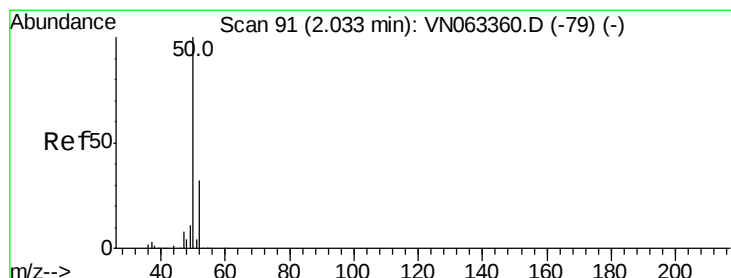
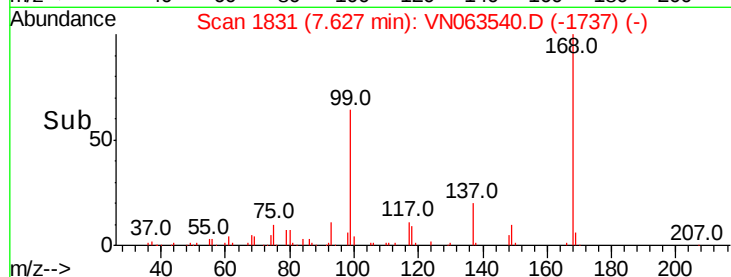
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.332 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063540.D

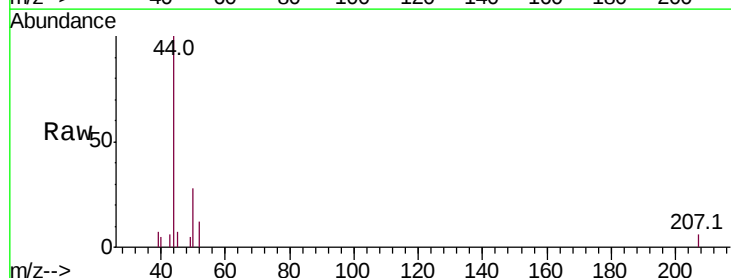
Acq: 22 Sep 2020 18:07

Tgt Ion: 50 Resp: 1115

Ion Ratio Lower Upper

50 100

52 42.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

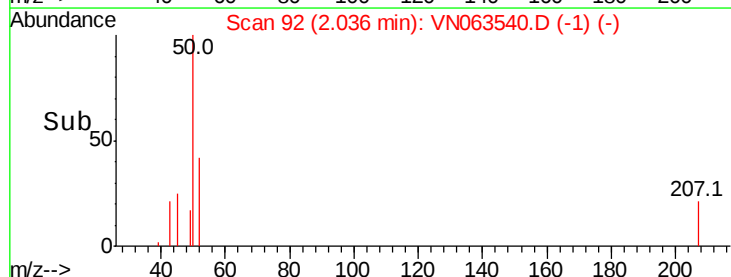
600

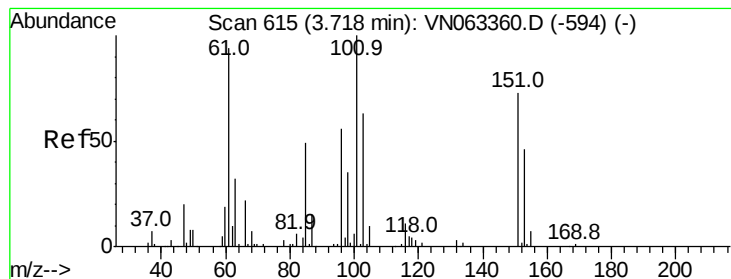
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.592 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

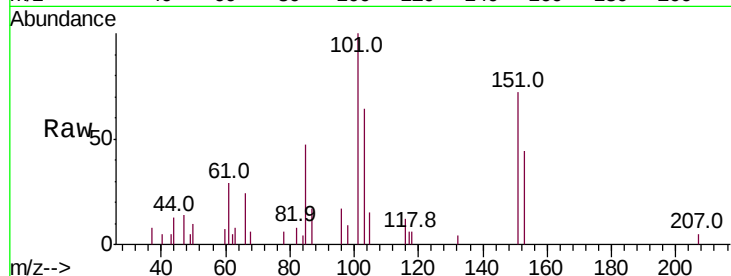
Tot Ion:101 Resp: 11473

Ion Ratio Lower Upper

101 100

85 47.6 37.7 56.5

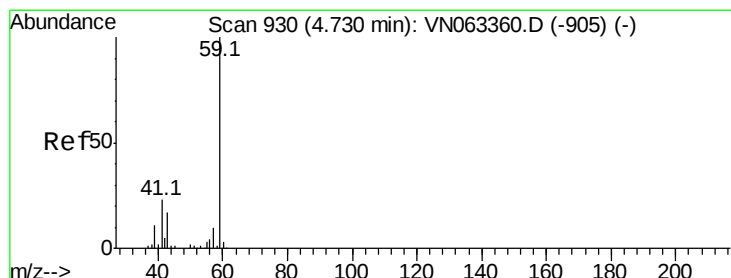
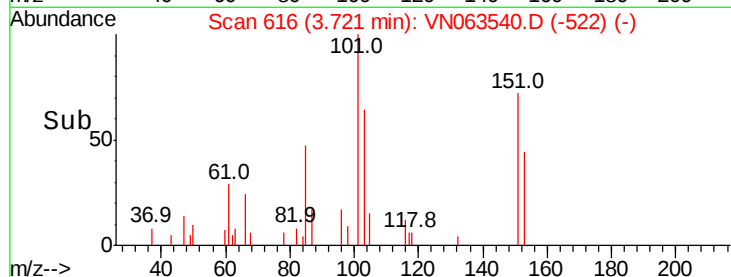
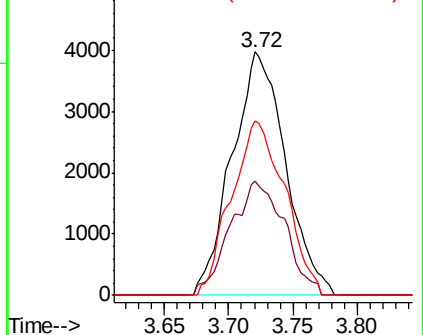
151 71.4 57.7 86.5



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



#11

Tert butyl alcohol

Concen: 0.425 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063540.D

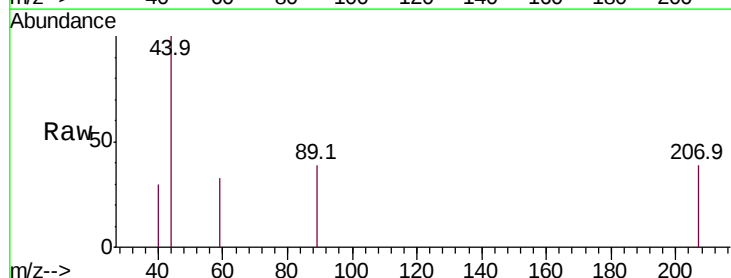
Acq: 22 Sep 2020 18:07

Tgt Ion: 59 Resp: 225

Ion Ratio Lower Upper

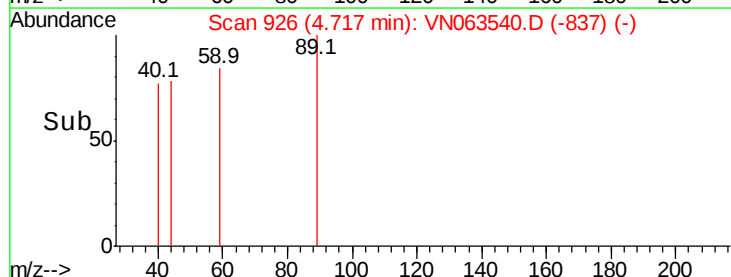
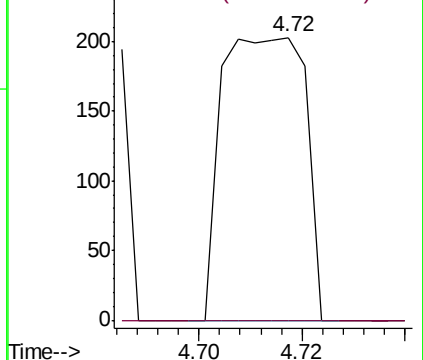
59 100

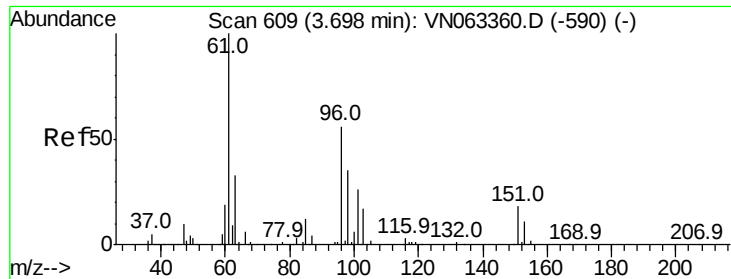
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 1.231 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

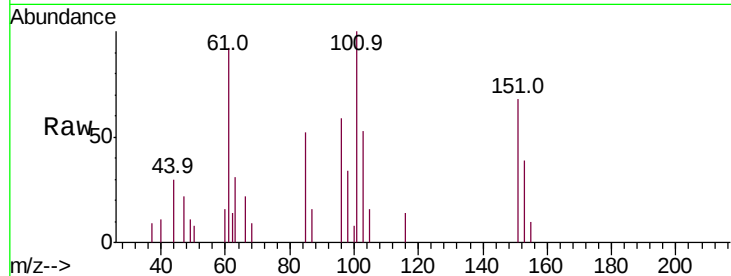
Tot Ion: 96 Resp: 3116

Ion Ratio Lower Upper

96 100

61 155.8 143.4 215.2

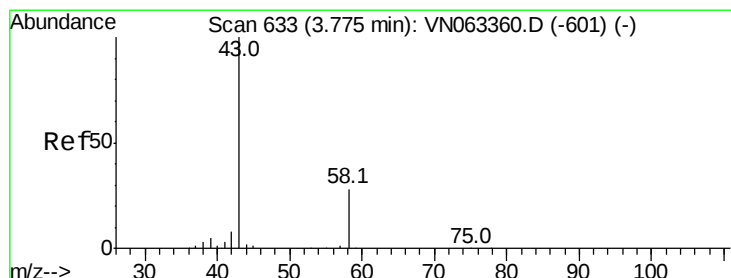
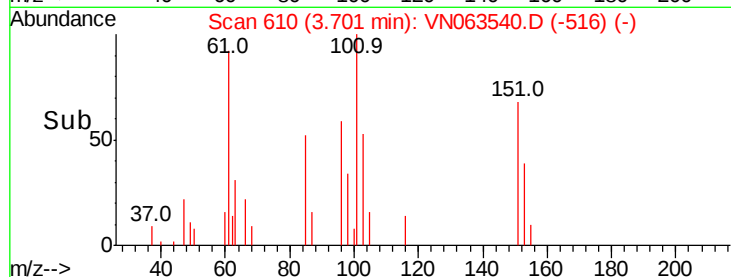
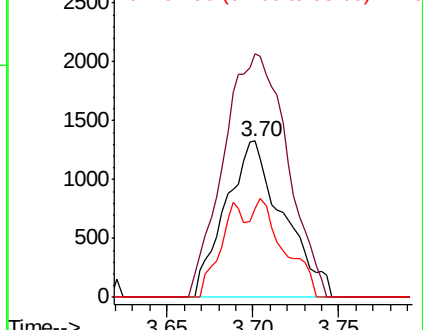
98 57.1 50.6 76.0



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



#16

Acetone

Concen: 0.680 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063540.D

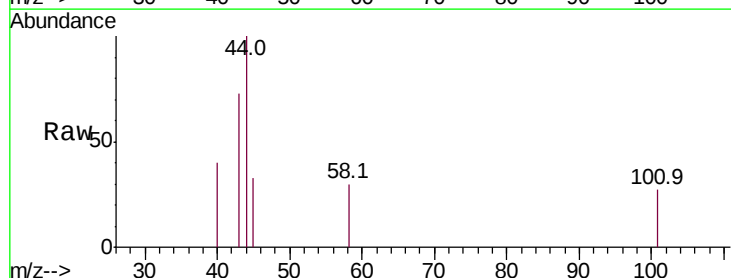
Acq: 22 Sep 2020 18:07

Tgt Ion: 43 Resp: 834

Ion Ratio Lower Upper

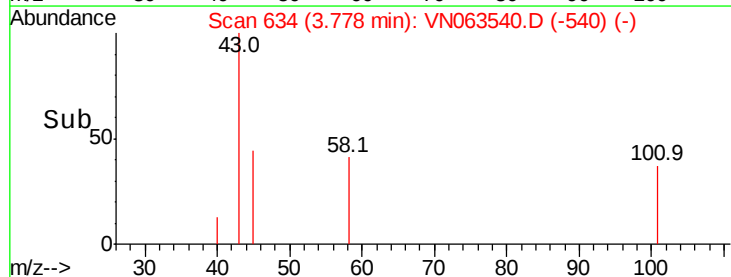
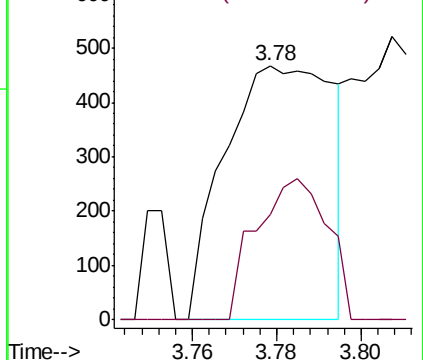
43 100

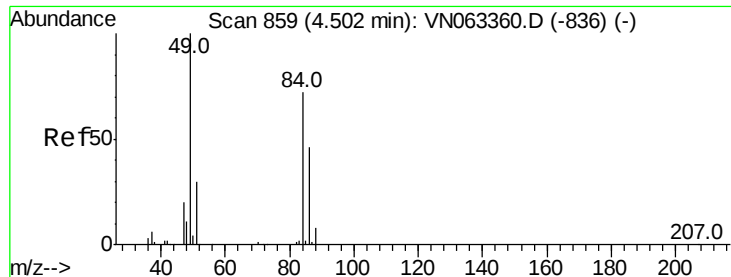
58 41.5 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: 0.231 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

Tot Ion: 84 Resp: 719

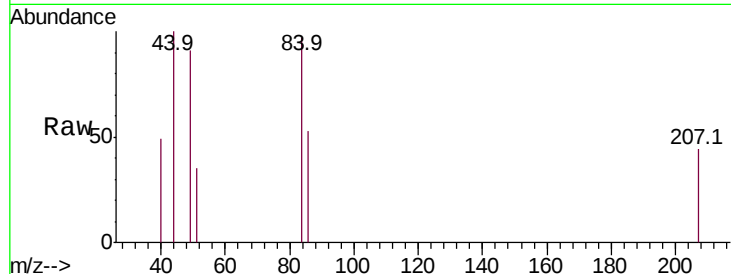
Ion Ratio Lower Upper

84 100

49 93.4 110.7 166.1#

51 36.2 32.9 49.3

86 54.0 51.1 76.7

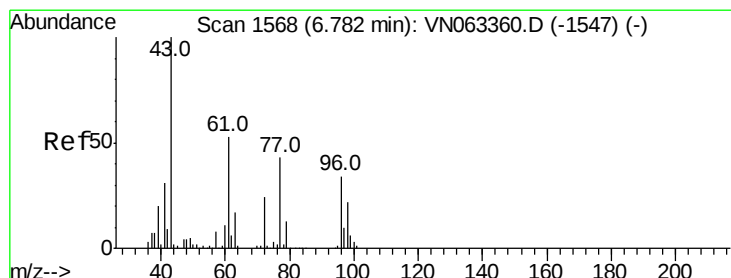
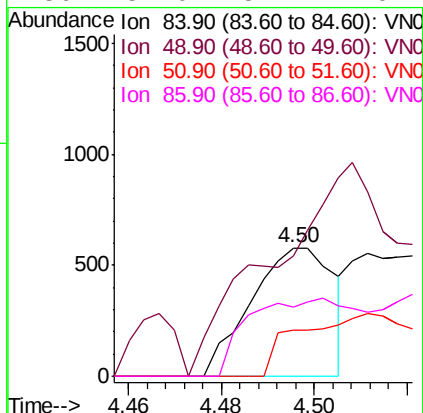
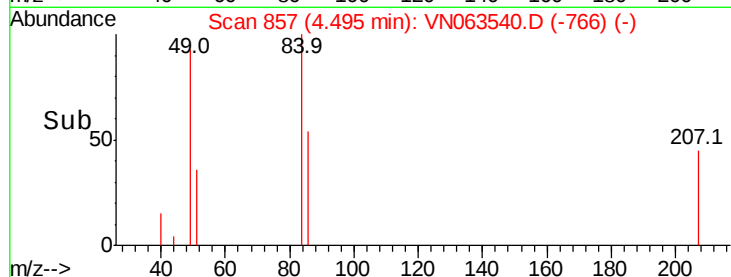


Abundance Ion 83.90 (83.60 to 84.60): VN063360.D (-836) (-)

Ion 48.90 (48.60 to 49.60): VN063360.D (-836) (-)

Ion 50.90 (50.60 to 51.60): VN063360.D (-836) (-)

Ion 85.90 (85.60 to 86.60): VN063360.D (-836) (-)



#25

2-Butanone

Concen: 0.293 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN063540.D

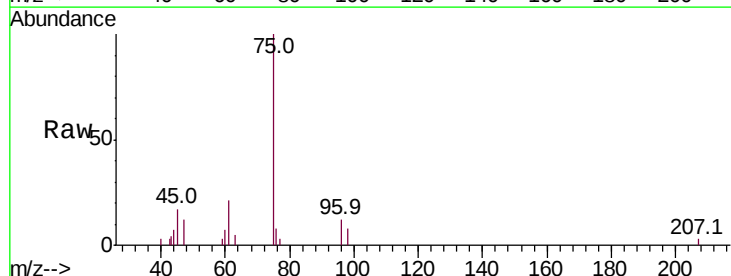
Acq: 22 Sep 2020 18:07

Tgt Ion: 43 Resp: 552

Ion Ratio Lower Upper

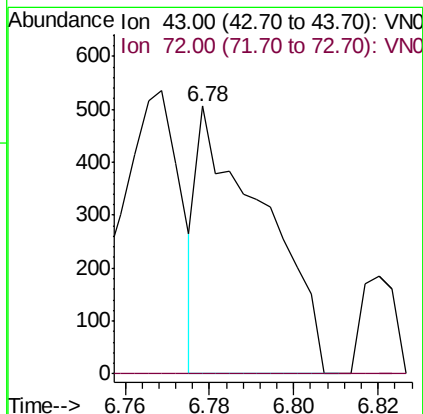
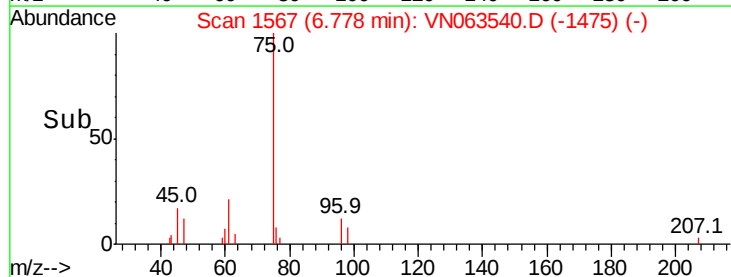
43 100

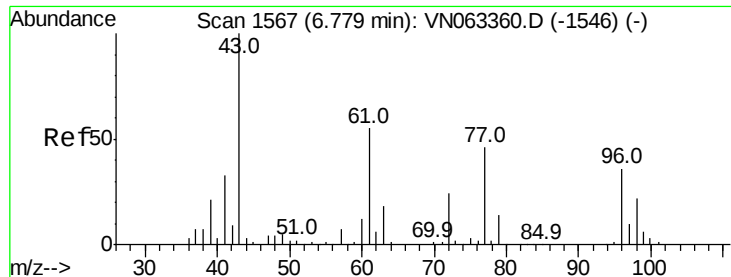
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1547) (-)

Ion 72.00 (71.70 to 72.70): VN063360.D (-1547) (-)





#27

cis-1,2-Dichloroethene

Concen: 0.413 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

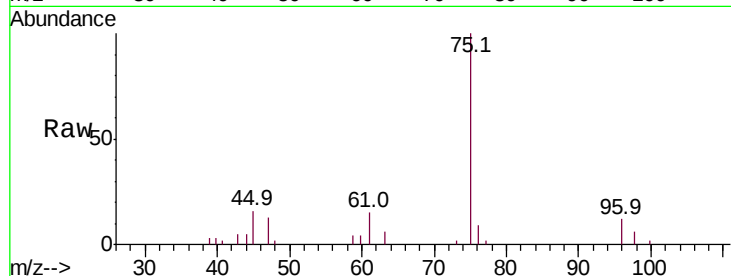
Tot Ion: 96 Resp: 1312

Ion Ratio Lower Upper

96 100

61 248.9 0.0 319.6

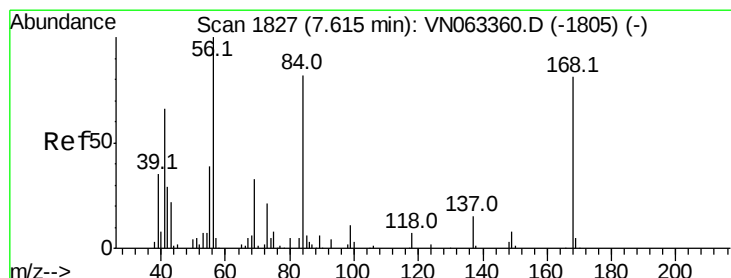
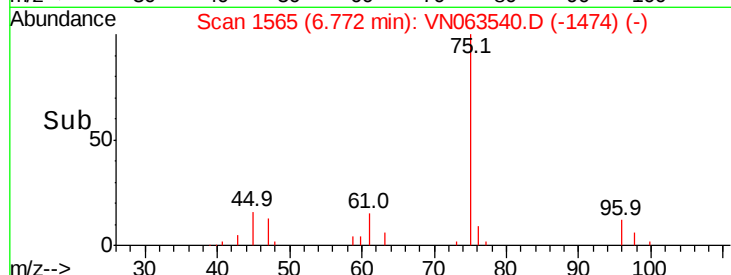
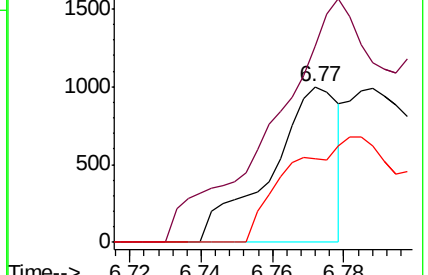
98 97.1 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN063360.D (-1546) (-)

Ion 60.90 (60.60 to 61.60): VN063360.D (-1546) (-)

Ion 97.90 (97.60 to 98.60): VN063360.D (-1546) (-)



#31

Cyclohexane

Concen: 1.168 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

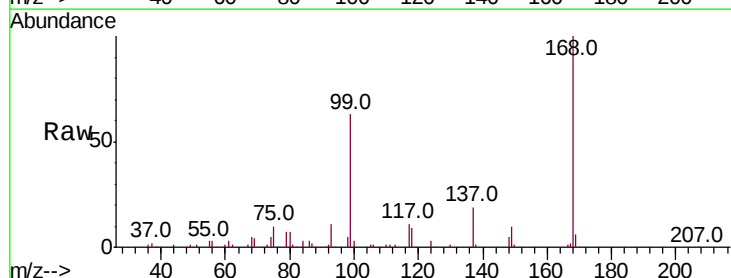
Tgt Ion: 56 Resp: 6159

Ion Ratio Lower Upper

56 100

69 161.7 26.1 39.1#

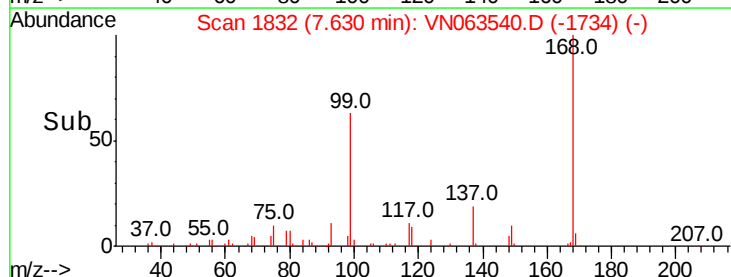
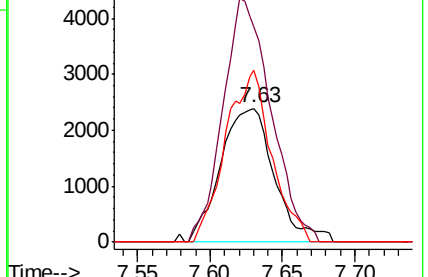
84 129.1 65.4 98.2#

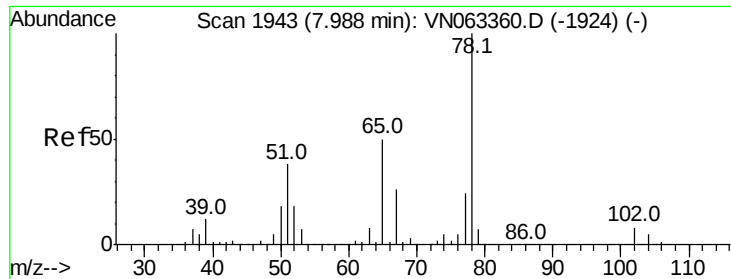


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)

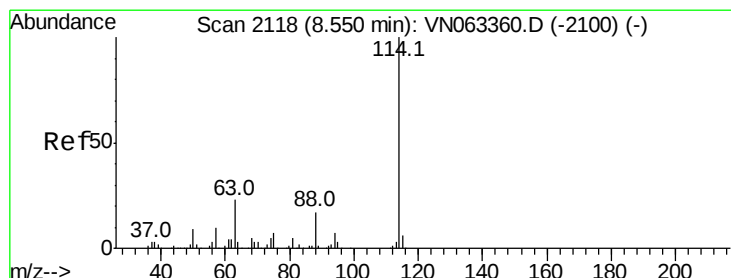
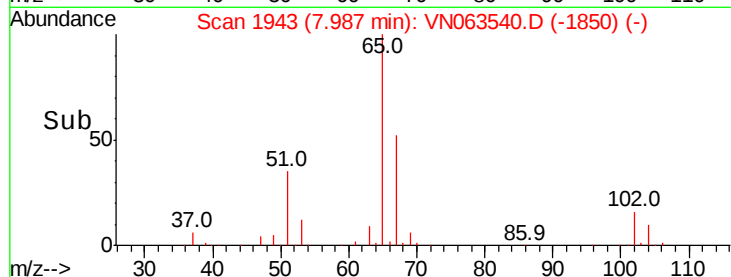
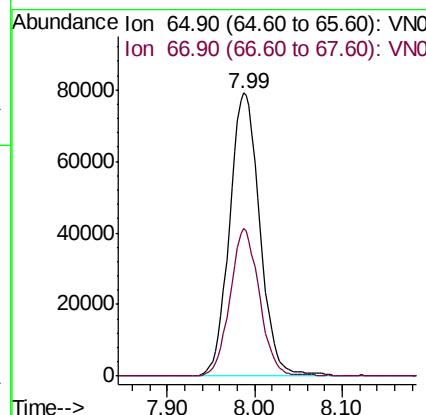
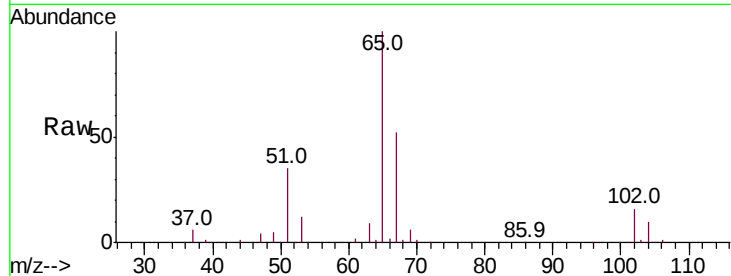




#33
 1,2-Dichloroethane-d4
 Concen: 49.848 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063540.D
 Acq: 22 Sep 2020 18:07

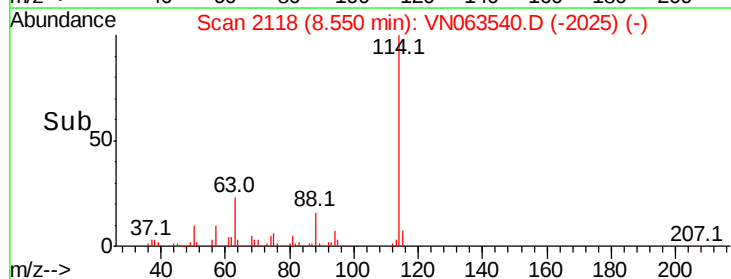
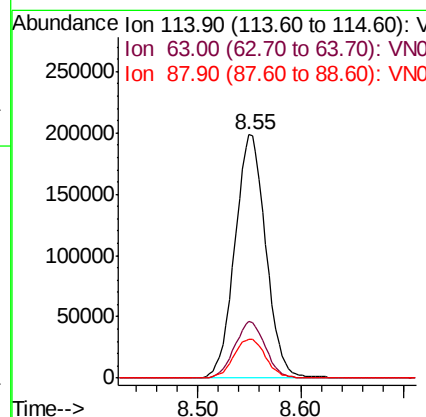
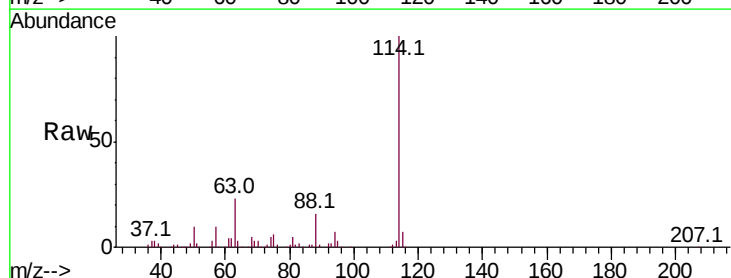
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20200916DL

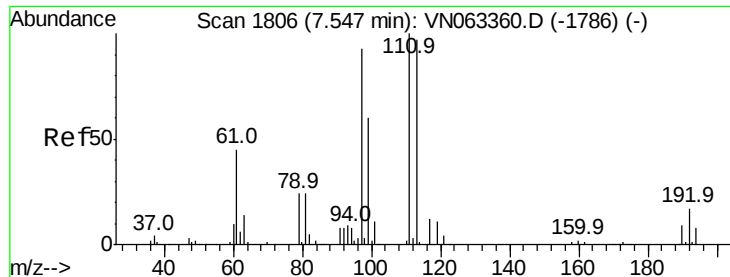
Tot Ion: 65 Resp: 190306
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063540.D
 Acq: 22 Sep 2020 18:07

Tgt Ion: 114 Resp: 414532
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.4
 88 15.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.288 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

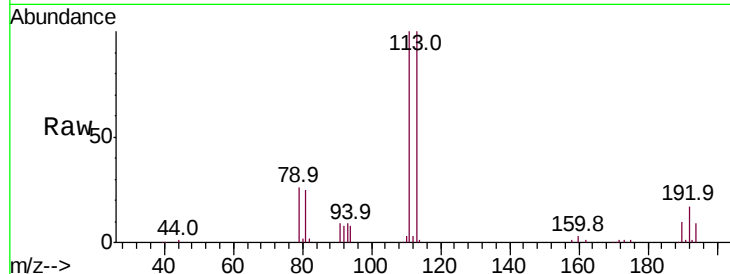
Tot Ion:113 Resp: 135702

Ion Ratio Lower Upper

113 100

111 101.8 82.9 124.3

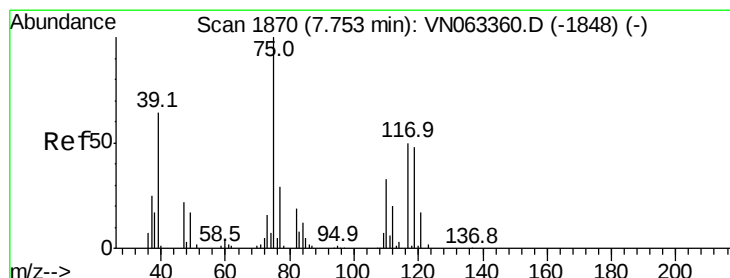
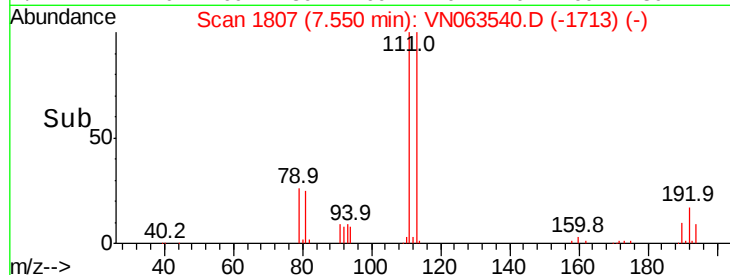
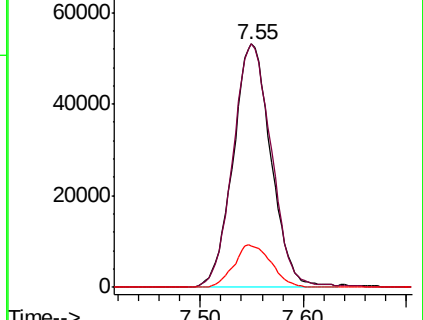
192 17.1 13.9 20.9



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: 4.840 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

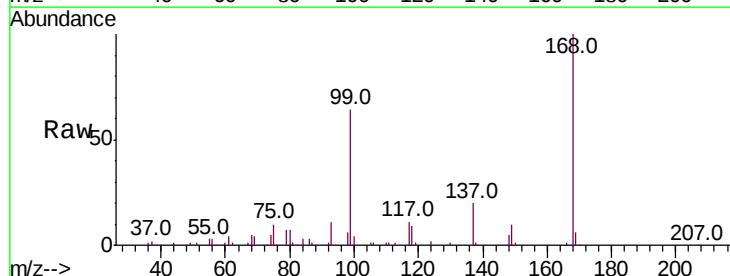
Tgt Ion: 75 Resp: 21375

Ion Ratio Lower Upper

75 100

110 9.1 16.5 49.5#

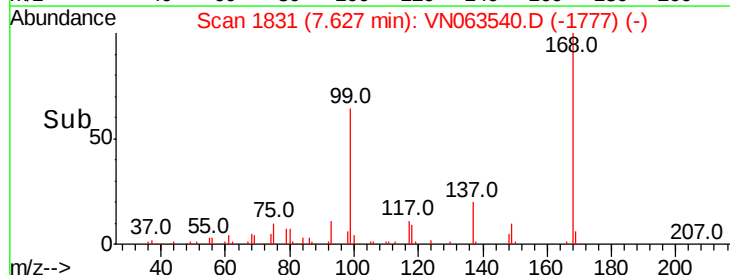
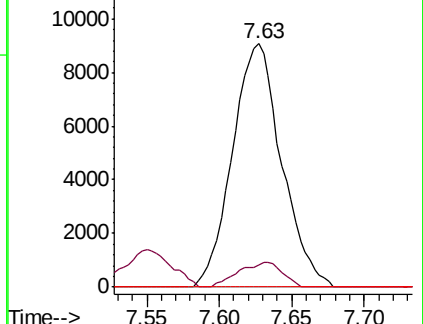
77 0.0 24.6 36.8#

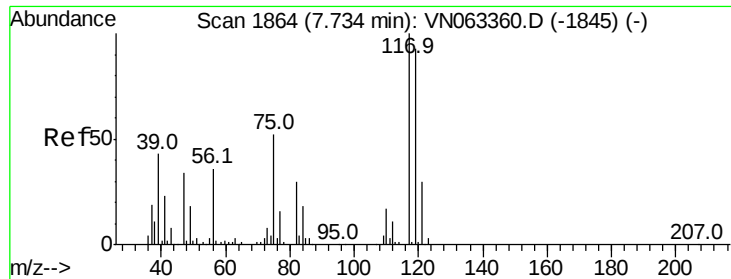


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.448 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200916DL

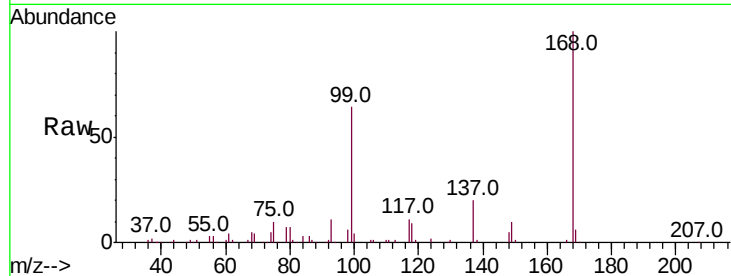
Tot Ion:117 Resp: 24561

Ion Ratio Lower Upper

117 100

119 5.6 74.5 111.7#

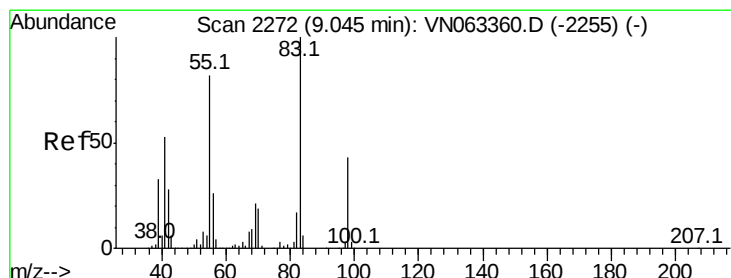
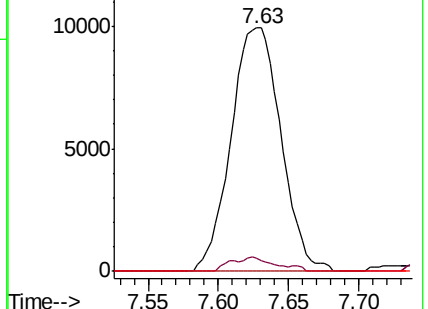
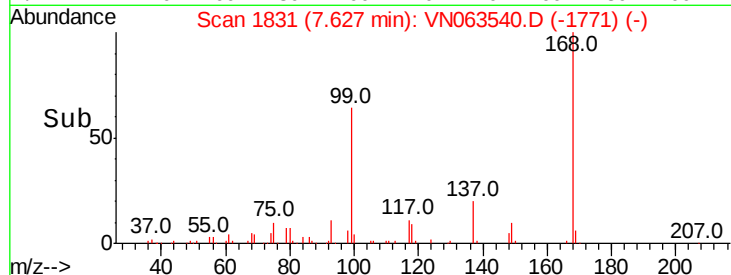
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 0.599 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.24 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

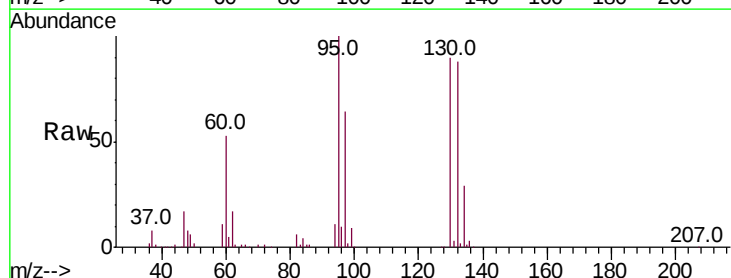
Tgt Ion: 83 Resp: 2871

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

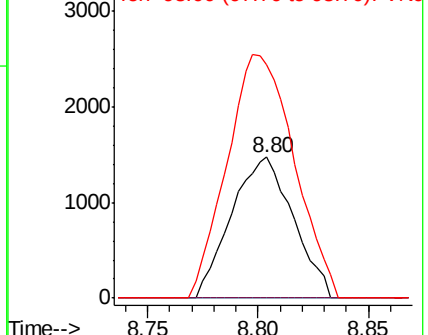
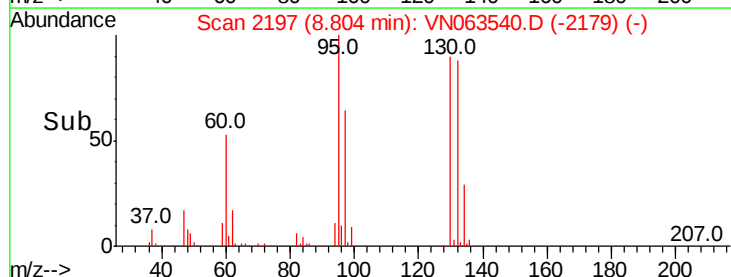
98 165.5 34.2 51.4#

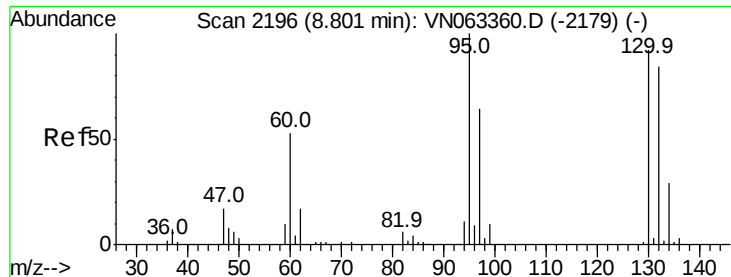


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 67.855 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

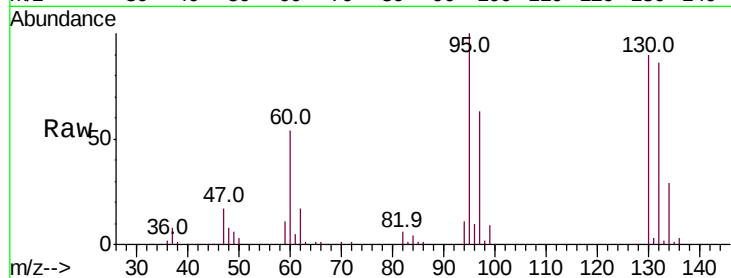
RE125D2-20200916DL

Tot Ion:130 Resp: 207483

Ion Ratio Lower Upper

130 100

95 111.4 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

120000

100000

80000

60000

40000

20000

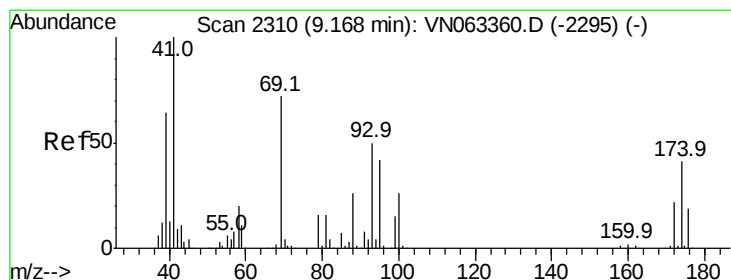
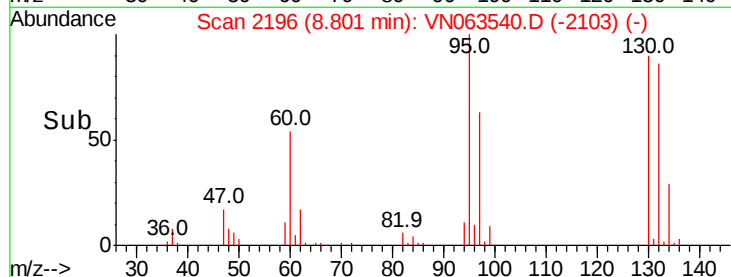
0

8.70

8.80

8.90

Time-->



#49

1,4-Dioxane

Concen: 3.495 ug/l

RT: 9.18 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

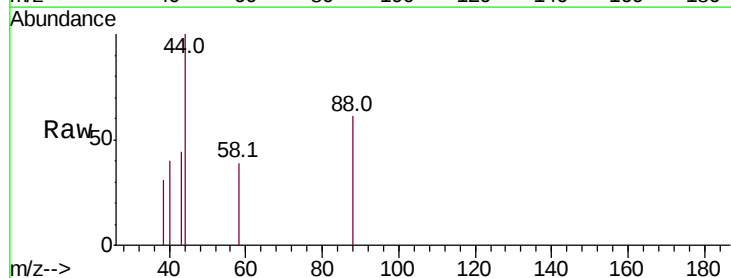
Tgt Ion: 88 Resp: 191

Ion Ratio Lower Upper

88 100

43 116.8 32.6 49.0#

58 142.9 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

400

300

200

100

0

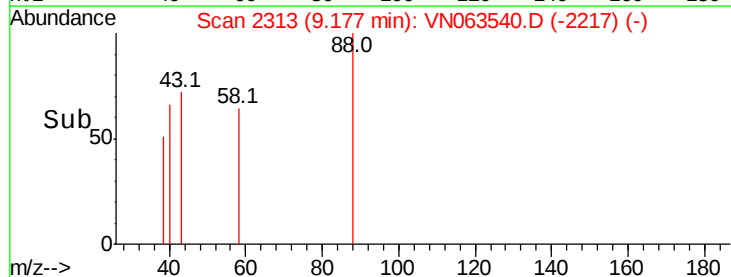
9.16

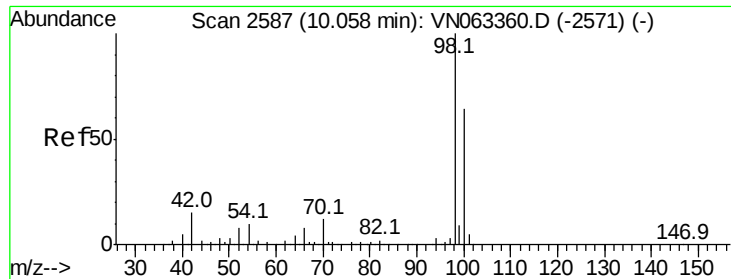
9.17

9.18

9.19

Time-->





#50

Toluene-d8

Concen: 49.502 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

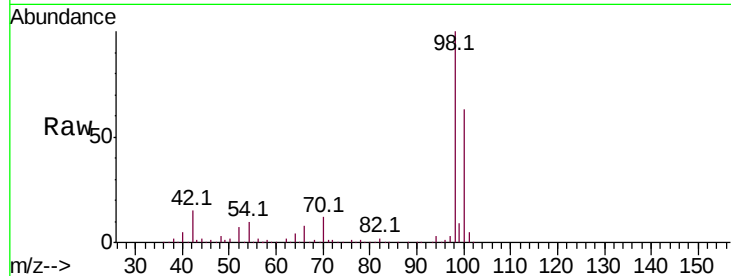
RE125D2-20200916DL

Tot Ion: 98 Resp: 534165

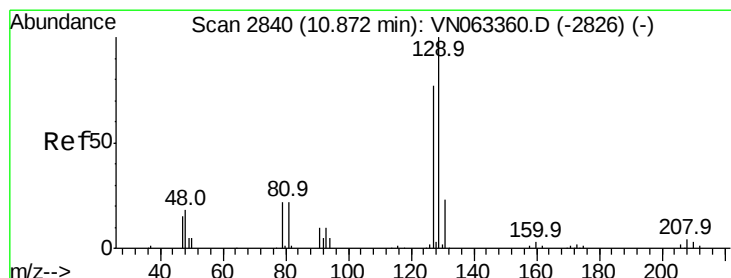
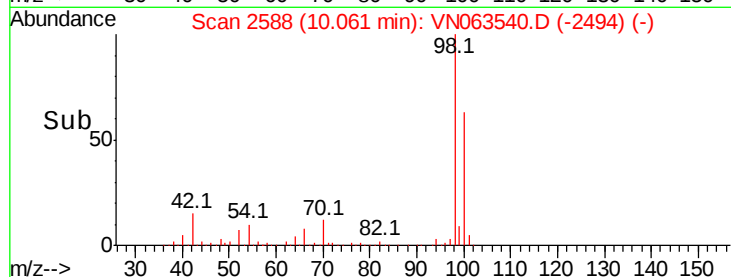
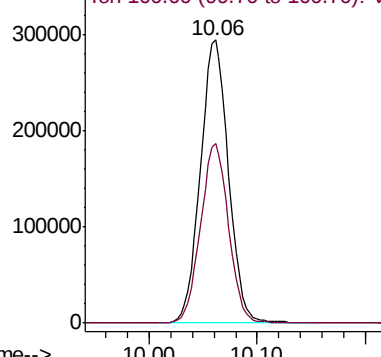
Ion Ratio Lower Upper

98 100

100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#60

Dibromochloromethane

Concen: 0.891 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063540.D

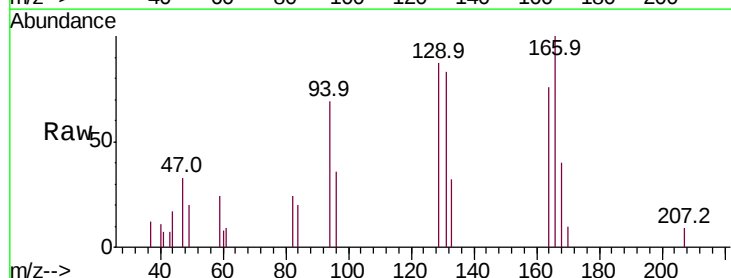
Acq: 22 Sep 2020 18:07

Tgt Ion: 129 Resp: 3030

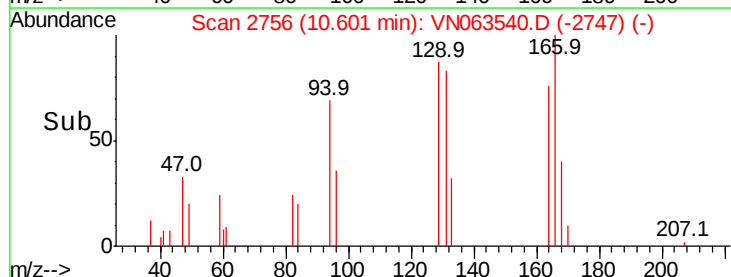
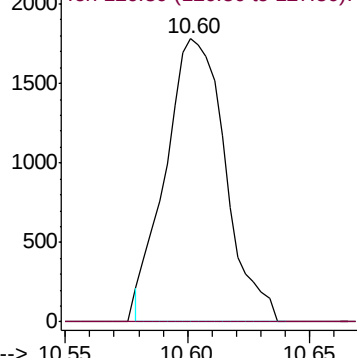
Ion Ratio Lower Upper

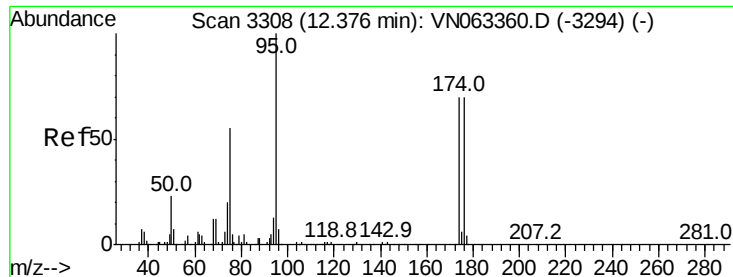
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VN063360.D (-2826) (-)

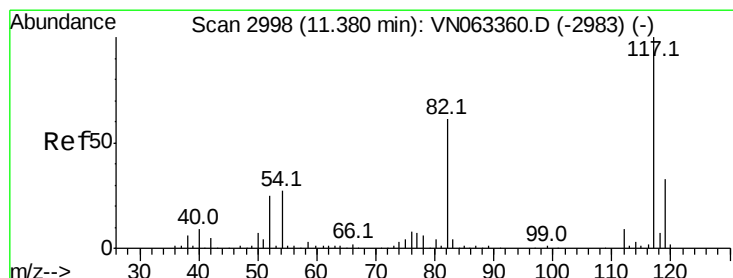
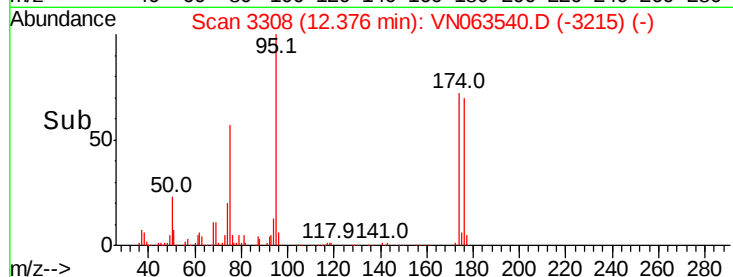
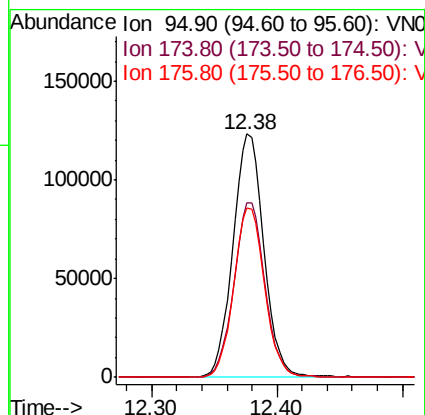
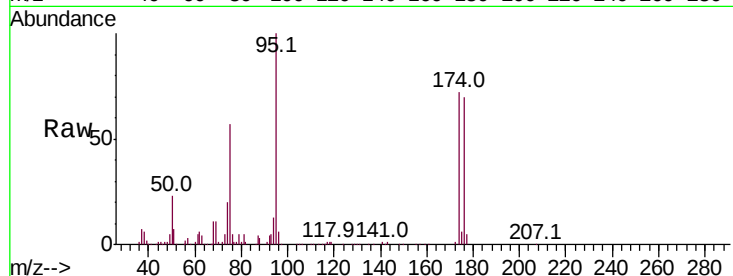




#62
4-Bromofluorobenzene
Concen: 53.313 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063540.D
Acq: 22 Sep 2020 18:07

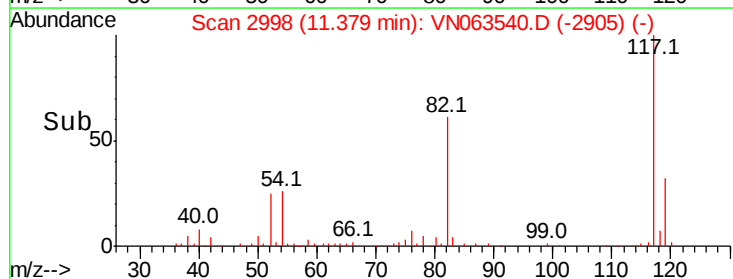
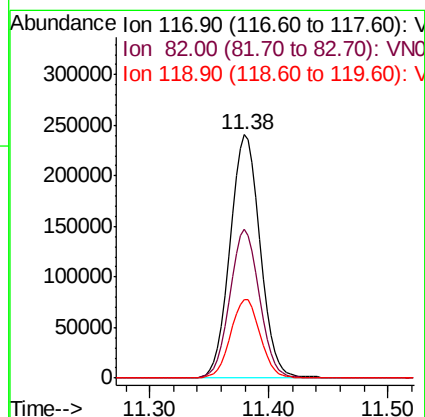
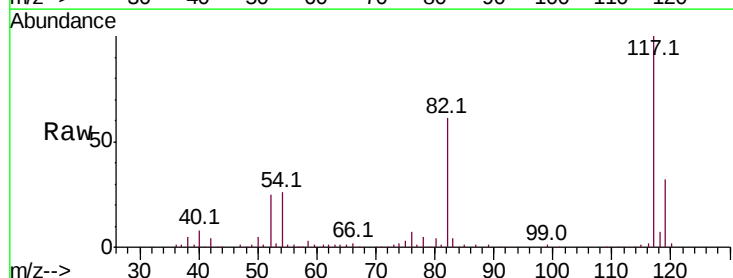
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200916DL

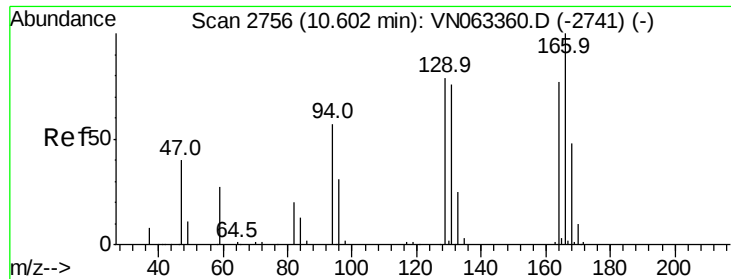
Tot Ion	95	Resp	210890
Ion Ratio	Lower	Upper	
95	100		
174	71.9	0.0	140.8
176	69.5	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063540.D
Acq: 22 Sep 2020 18:07

Tgt Ion	117	Resp	422258
Ion Ratio	Lower	Upper	
117	100		
82	60.9	49.2	73.8
119	32.3	26.2	39.4

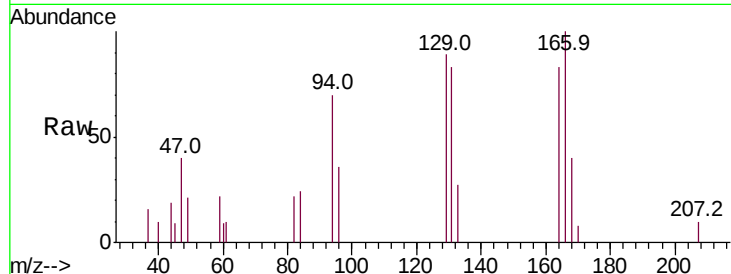




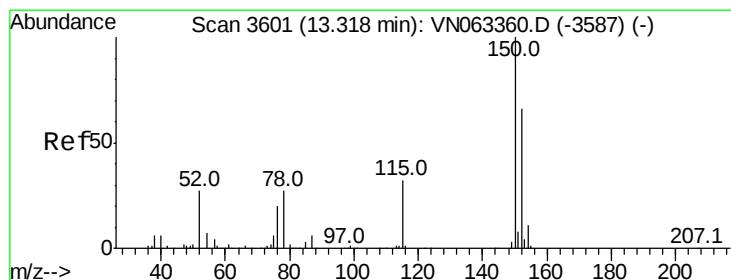
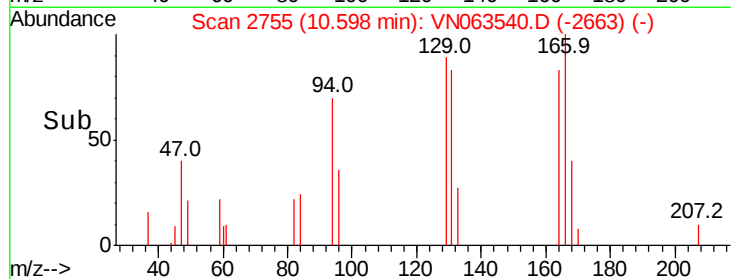
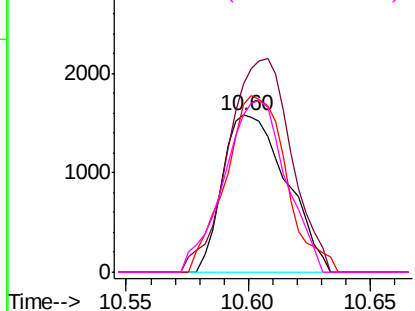
#64
Tetrachloroethene
Concen: 1.002 ug/l
RT: 10.60 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN063540.D
Acq: 22 Sep 2020 18:07

Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200916DL

Tot Ion:164 Resp: 2880
Ion Ratio Lower Upper
164 100
166 120.0 103.4 155.0
129 107.0 81.8 122.6
131 100.2 78.2 117.4

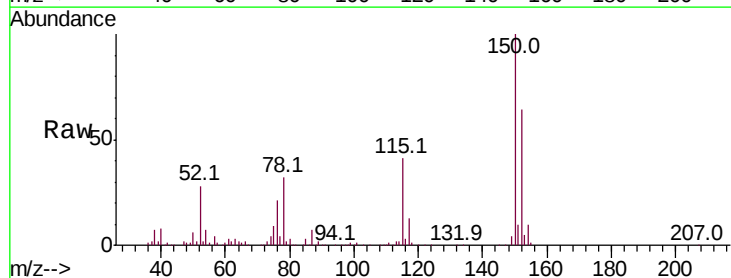


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

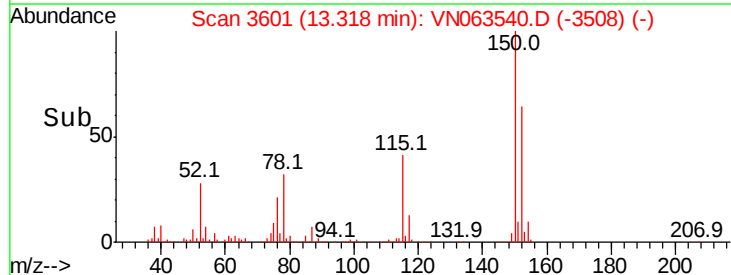
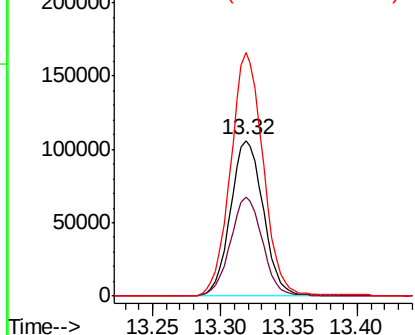


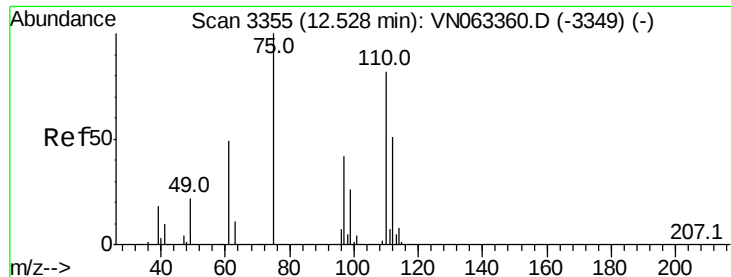
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063540.D
Acq: 22 Sep 2020 18:07

Tgt Ion:152 Resp: 177142
Ion Ratio Lower Upper
152 100
115 62.4 32.2 96.6
150 155.7 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: 26.873 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

Instrument :

MSVOA_N

ClientSampleId :

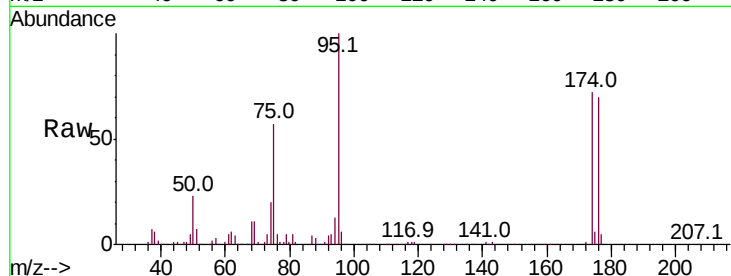
RE125D2-20200916DL

Tot Ion: 75 Resp: 117825

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

60000

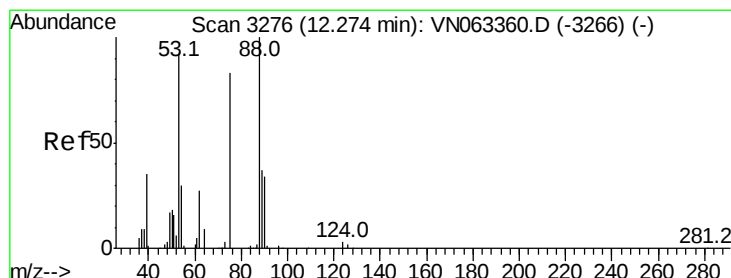
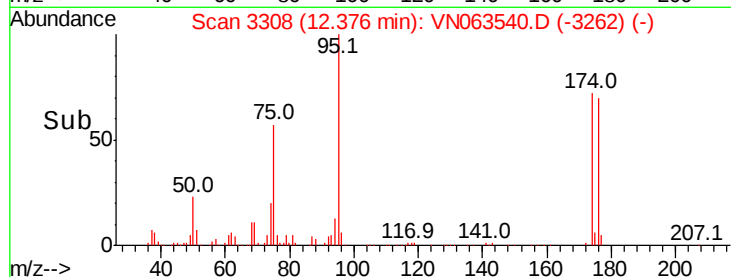
40000

20000

0

Time-->

12.30 12.40



#81

trans-1,4-Dichloro-2-butene

Concen: 73.676 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063540.D

Acq: 22 Sep 2020 18:07

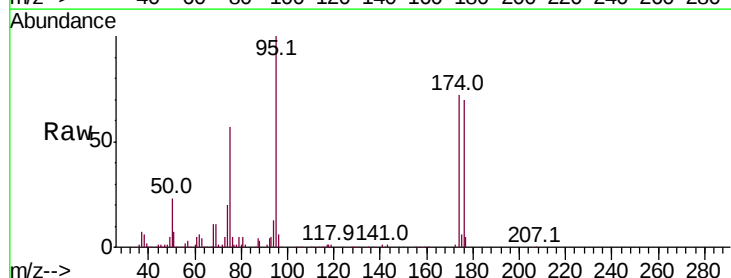
Tgt Ion: 75 Resp: 117825

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.38

80000

60000

40000

20000

0

Time-->

12.30 12.40

