

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063589.D
 Acq On : 23 Sep 2020 15:18
 Operator : JC/MD
 Sample : L4082-15DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916DL

Quant Time: Sep 24 02:35:36 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	7.62	168	201649	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	378440	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	383590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170648	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	173341	50.50	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.00%		
35) Dibromofluoromethane	7.55	113	123607	47.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.36%		
50) Toluene-d8	10.06	98	484898	49.22	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.44%		
62) 4-Bromofluorobenzene	12.38	95	193298	53.53	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.06%		

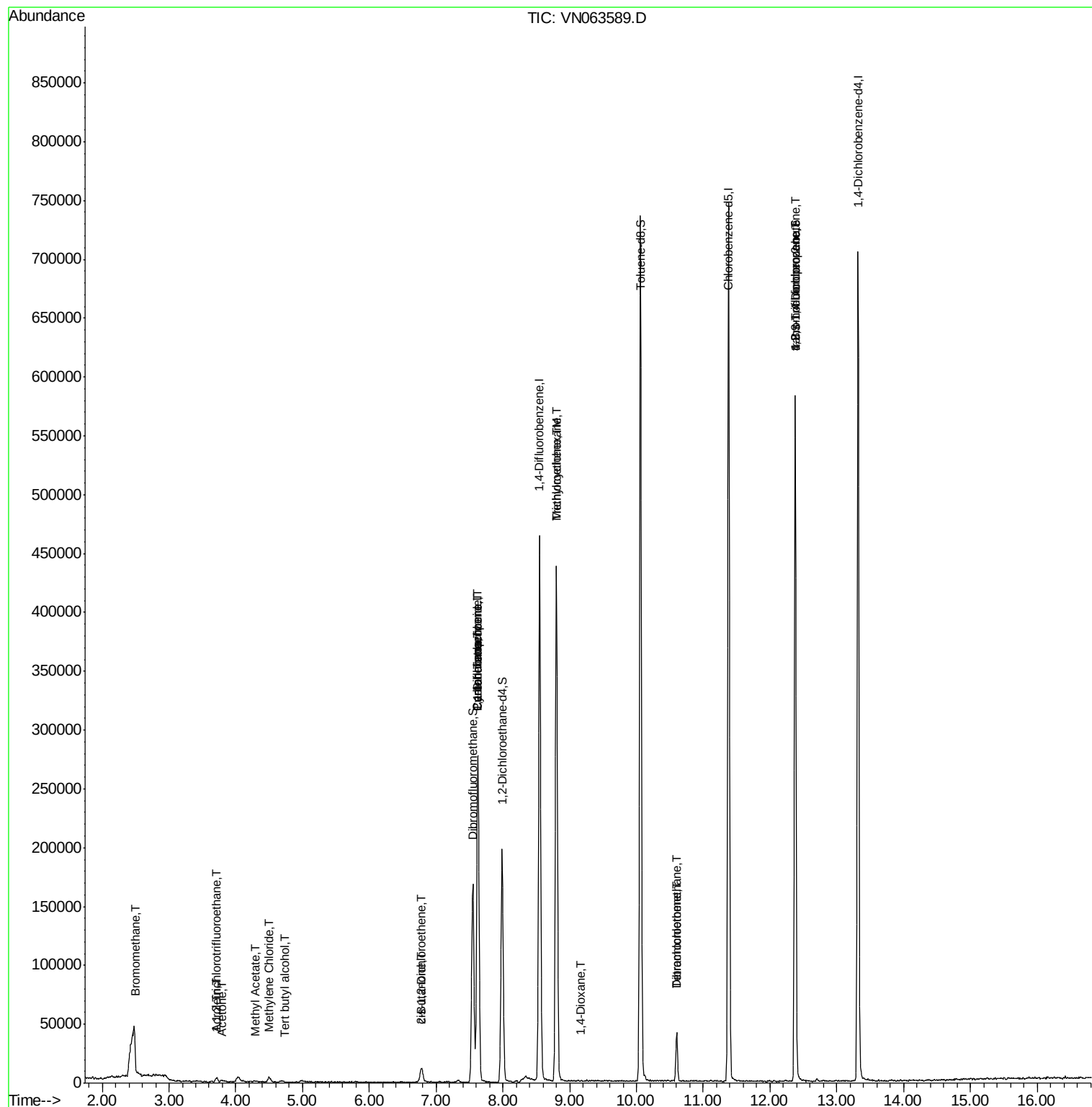
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.50	94	349	0.220	ug/l #	66
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2287	1.018	ug/l #	42
11) Tert butyl alcohol	4.74	59	419	0.881	ug/l #	72
13) Acrolein	3.71	56	61	0.346	ug/l #	13
16) Acetone	3.78	43	1177	1.067	ug/l #	47
18) Methyl Acetate	4.29	43	1388	0.496	ug/l #	59
20) Methylene Chloride	4.50	84	1390	0.497	ug/l #	79
25) 2-Butanone	6.77	43	393	0.232	ug/l #	51
27) cis-1,2-Dichloroethene	6.77	96	1815	0.636	ug/l	42
31) Cyclohexane	7.62	56	5538	1.168	ug/l #	37
36) 1,1-Dichloropropene	7.63	75	19987	4.957	ug/l #	50
38) Carbon Tetrachloride	7.63	117	22521	5.472	ug/l #	17
39) Methylcyclohexane	8.80	83	2193	0.501	ug/l #	1
44) Trichloroethene	8.80	130	144972	51.934	ug/l	98
49) 1,4-Dioxane	9.17	88	134	2.686	ug/l #	1
60) Dibromochloromethane	10.60	129	8078	2.602	ug/l #	10
64) Tetrachloroethene	10.60	164	8810	3.373	ug/l	93
76) 1,2,3-Trichloropropane	12.38	75	108060	25.584	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	108060	70.141	ug/l #	7

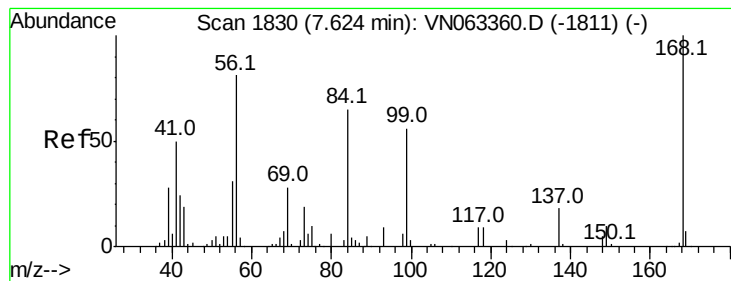
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

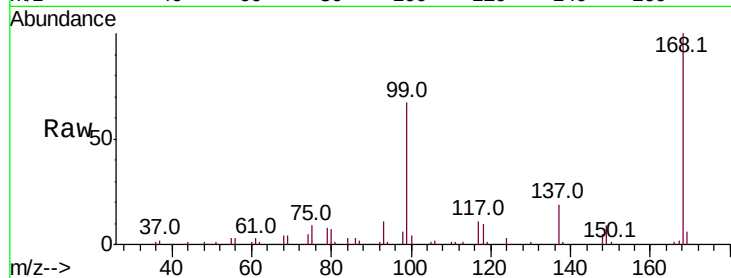
RE131D1-20200916DL

Tot Ion:168 Resp: 201649

Ion Ratio Lower Upper

168 100

99 67.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

80000

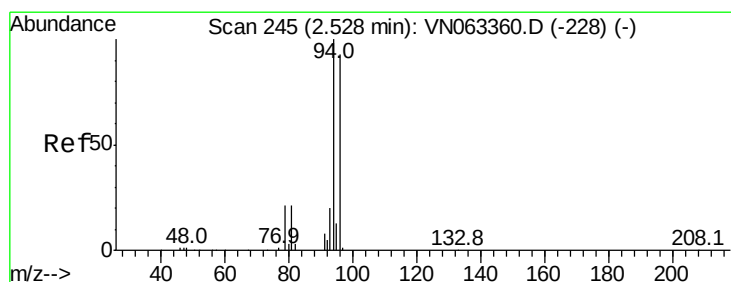
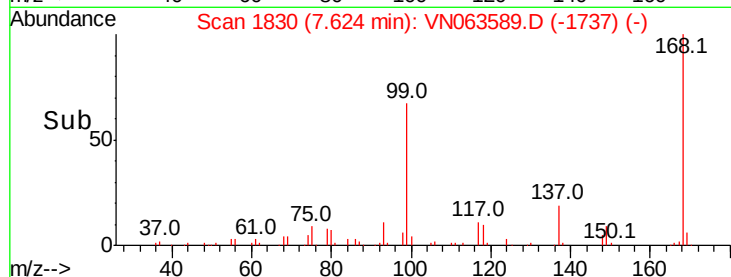
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.220 ug/l

RT: 2.50 min Scan# 236

Delta R.T. -0.03 min

Lab File: VN063589.D

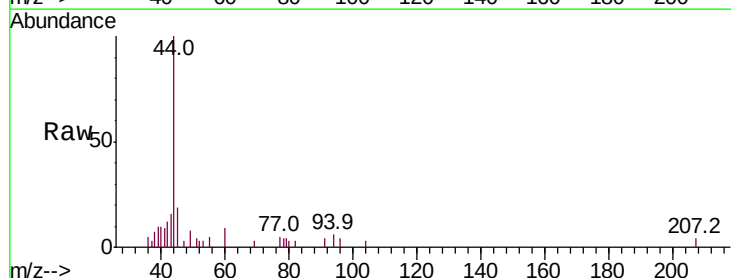
Acq: 23 Sep 2020 15:18

Tgt Ion: 94 Resp: 349

Ion Ratio Lower Upper

94 100

96 60.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.50

400

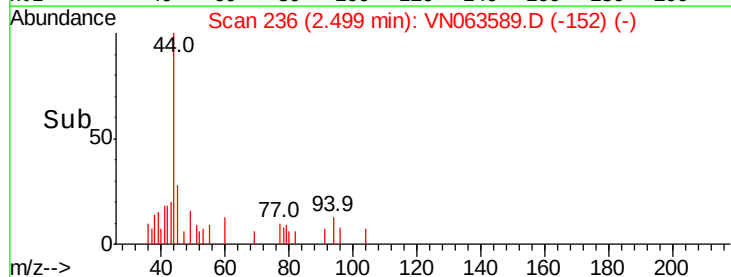
300

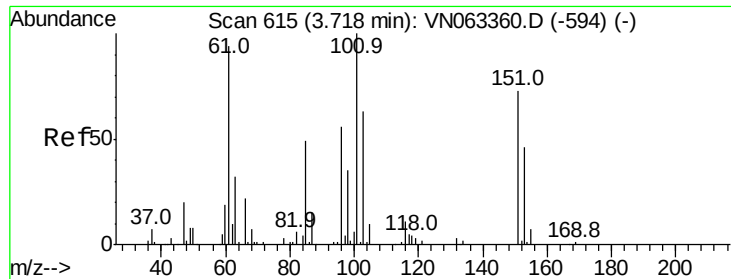
200

100

0

Time--> 2.48 2.49 2.50 2.51 2.52





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.018 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916DL

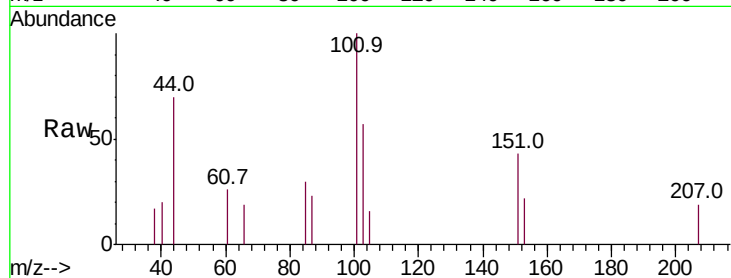
Tot Ion:101 Resp: 2287

Ion Ratio Lower Upper

101 100

85 37.1 37.7 56.5#

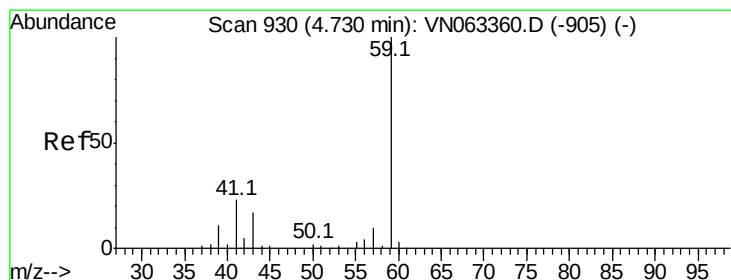
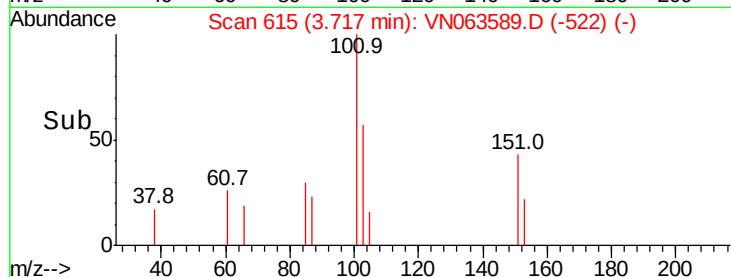
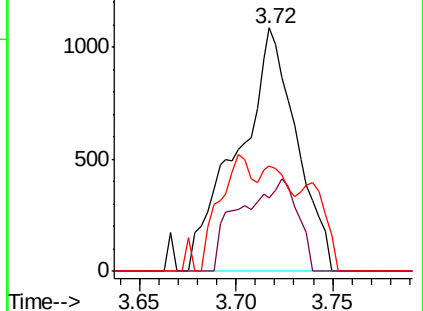
151 0.0 57.7 86.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.881 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063589.D

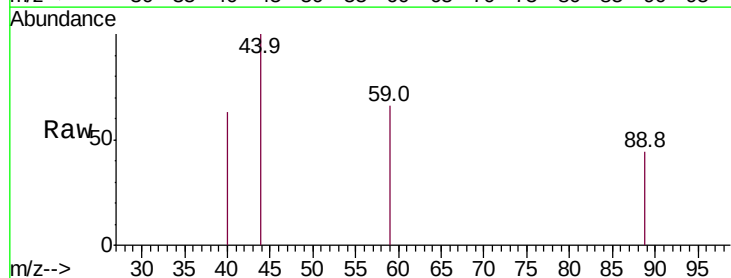
Acq: 23 Sep 2020 15:18

Tgt Ion: 59 Resp: 419

Ion Ratio Lower Upper

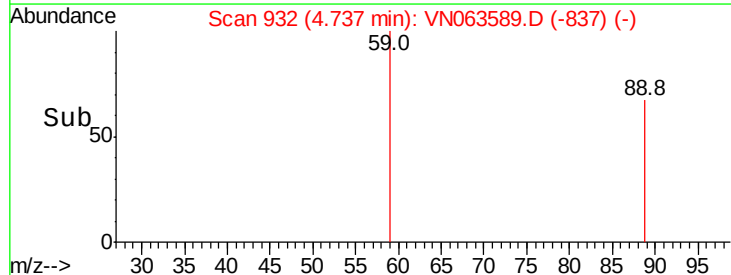
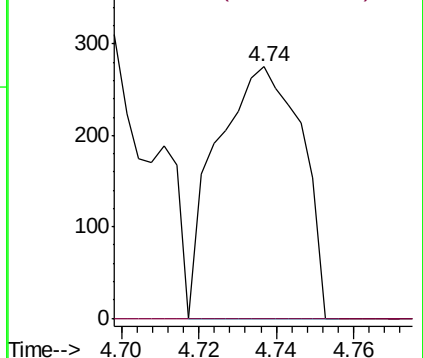
59 100

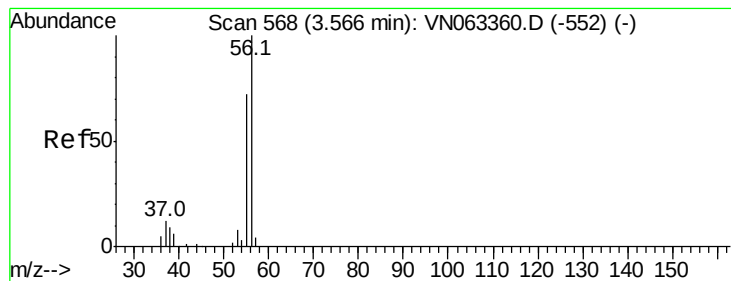
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 0.346 ug/l

RT: 3.71 min Scan# 614

Delta R.T. 0.15 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

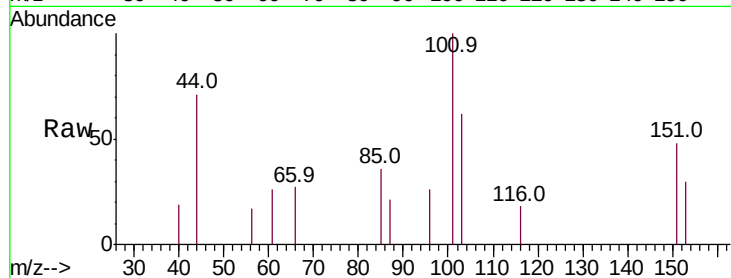
RE131D1-20200916DL

Tot Ion: 56 Resp: 61

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

3.71

150

100

50

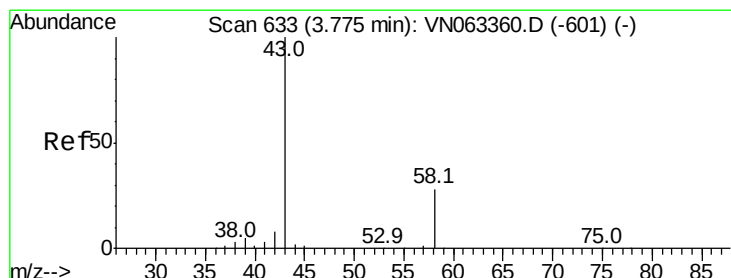
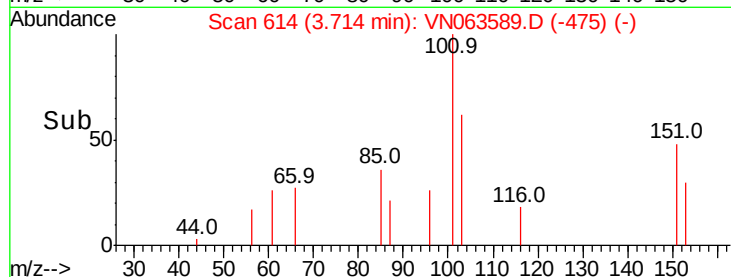
0

Time-->

3.70

3.71

3.72



#16

Acetone

Concen: 1.067 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063589.D

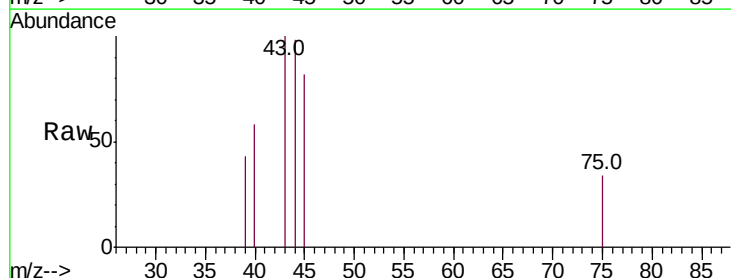
Acq: 23 Sep 2020 15:18

Tgt Ion: 43 Resp: 1177

Ion Ratio Lower Upper

43 100

58 0.0 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

600

500

400

300

200

100

0

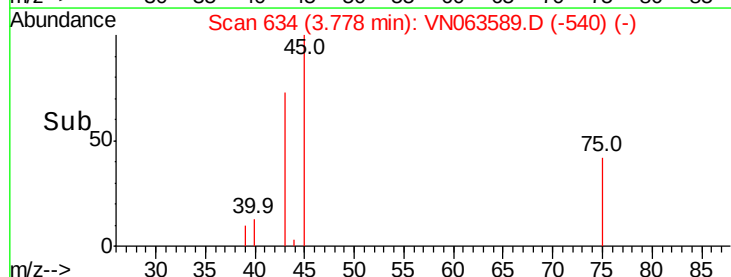
Time-->

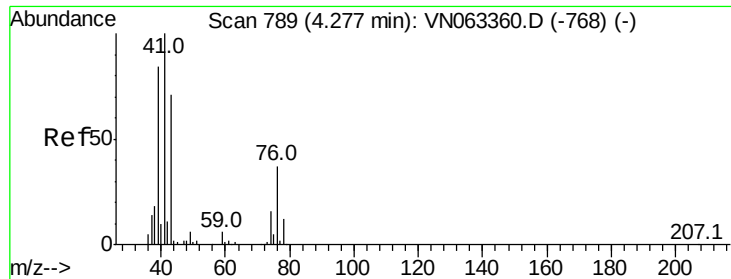
3.74

3.76

3.78

3.80

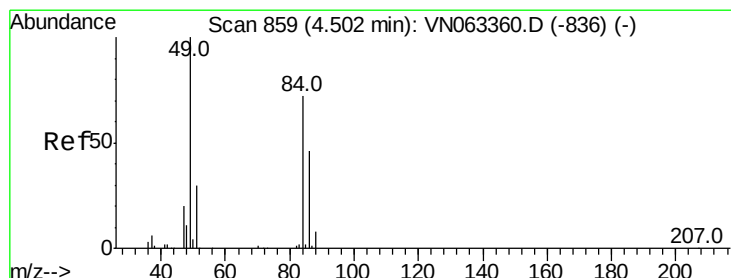
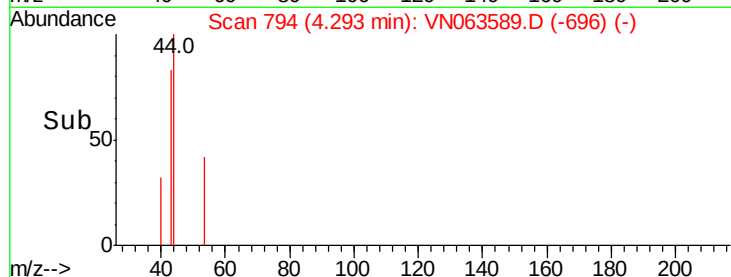
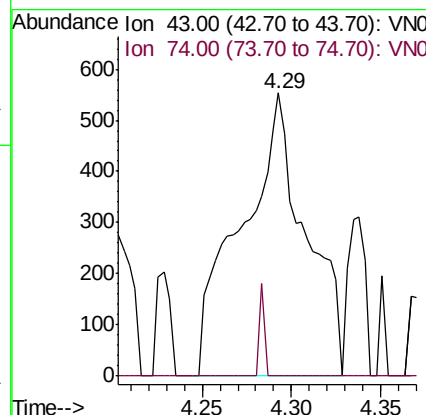
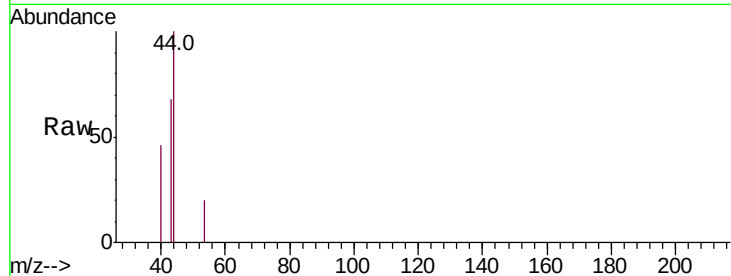




#18
Methvl Acetate
Concen: 0.496 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

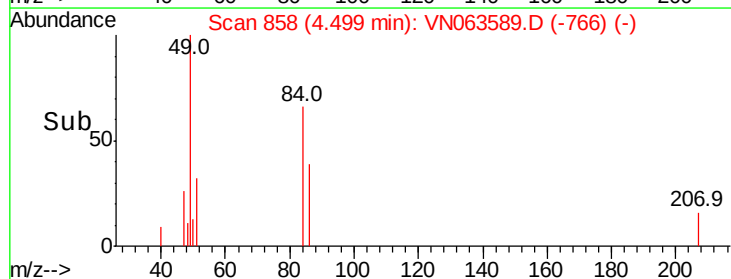
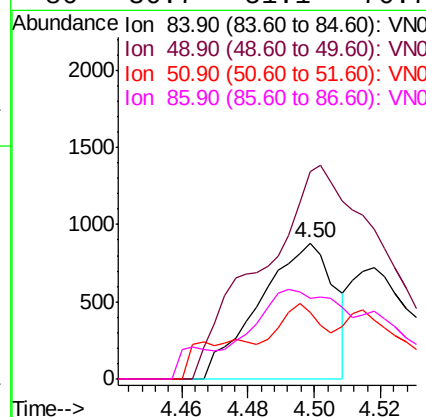
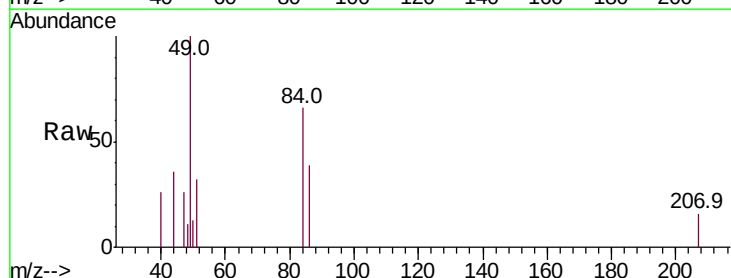
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20200916DL

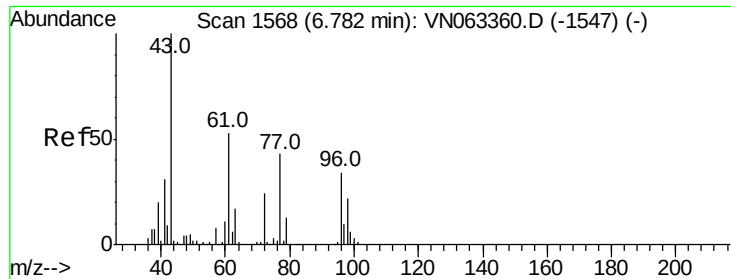
Tot Ion: 43 Resp: 1388
Ion Ratio Lower Upper
43 100
74 2.5 17.4 26.2#



#20
Methylene Chloride
Concen: 0.497 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Tgt Ion: 84 Resp: 1390
Ion Ratio Lower Upper
84 100
49 152.6 110.7 166.1
51 23.4 32.9 49.3#
86 36.7 51.1 76.7#





#25

2-Butanone

Concen: 0.232 ug/l

RT: 6.77 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

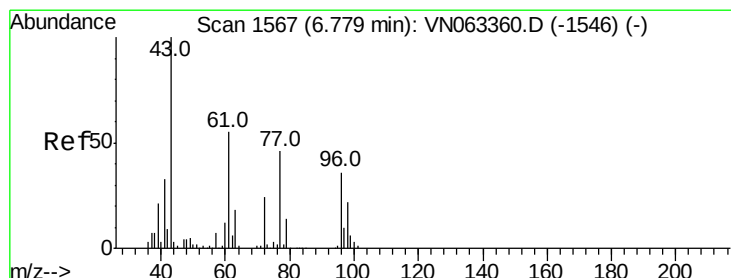
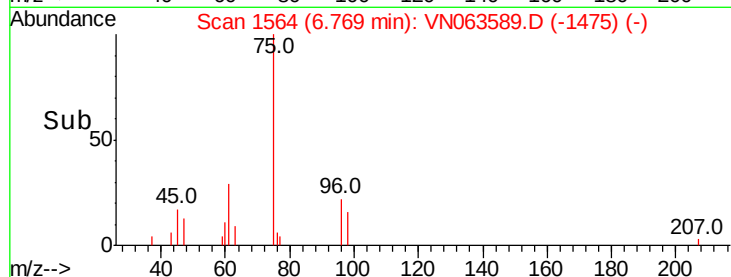
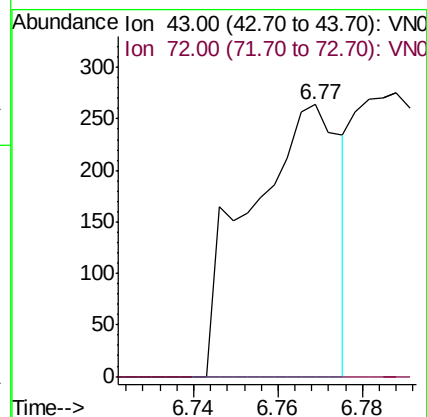
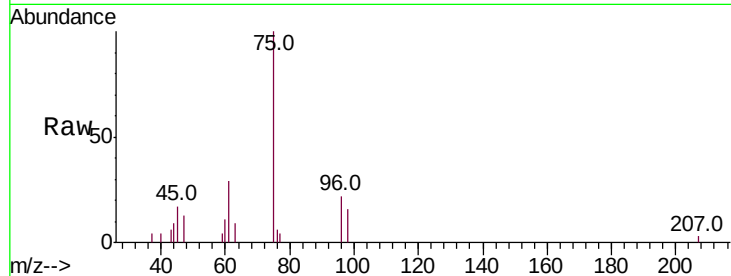
RE131D1-20200916DL

Tot Ion: 43 Resp: 393

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#27

cis-1,2-Dichloroethene

Concen: 0.636 ug/l

RT: 6.77 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

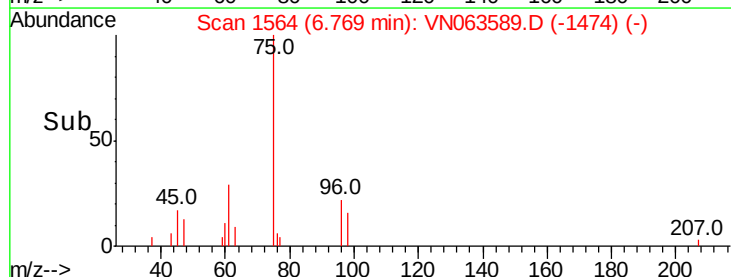
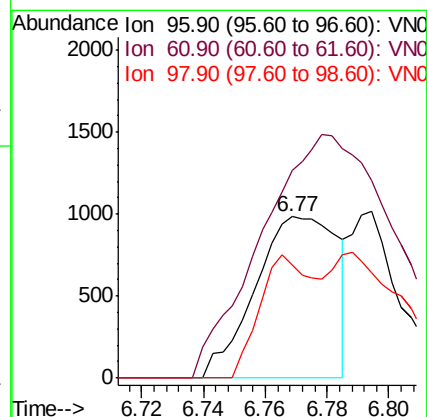
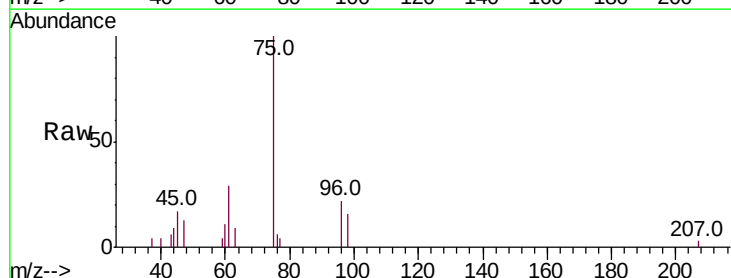
Tgt Ion: 96 Resp: 1815

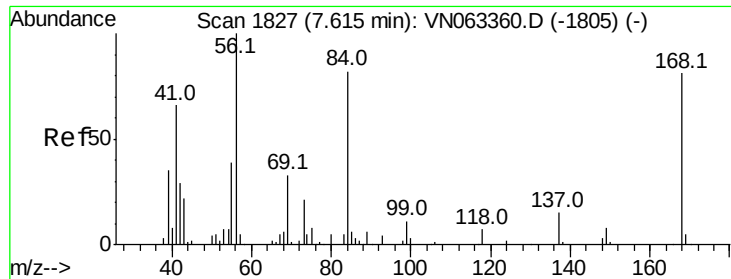
Ion Ratio Lower Upper

96 100

61 258.6 0.0 319.6

98 52.1 0.0 127.8

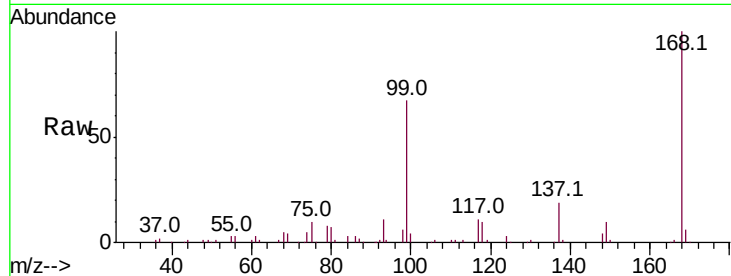




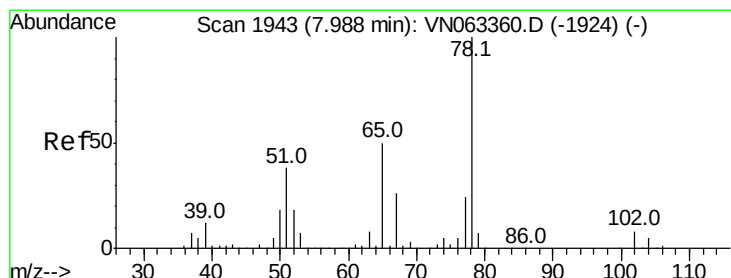
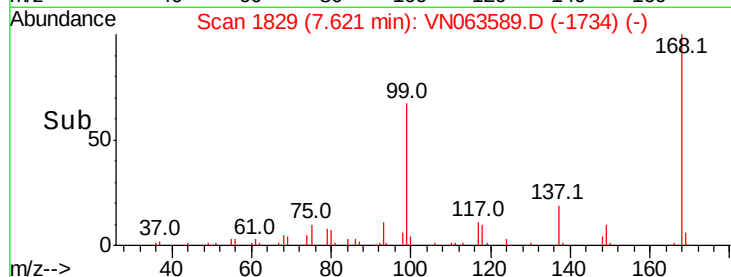
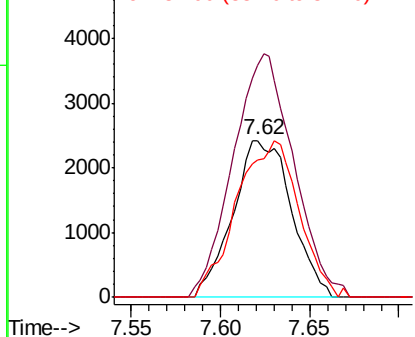
#31
Cyclohexane
Concen: 1.168 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20200916DL

Tot Ion: 56 Resp: 5538
Ion Ratio Lower Upper
56 100
69 147.7 26.1 39.1#
84 87.7 65.4 98.2

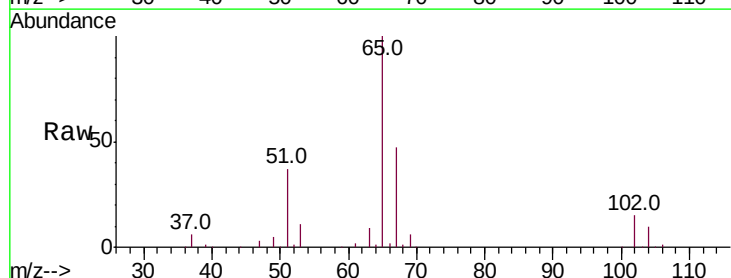


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

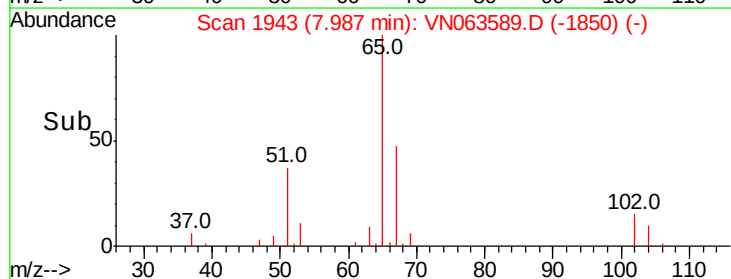
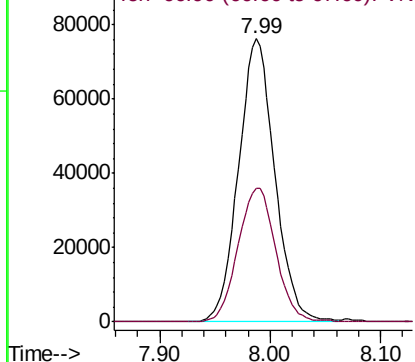


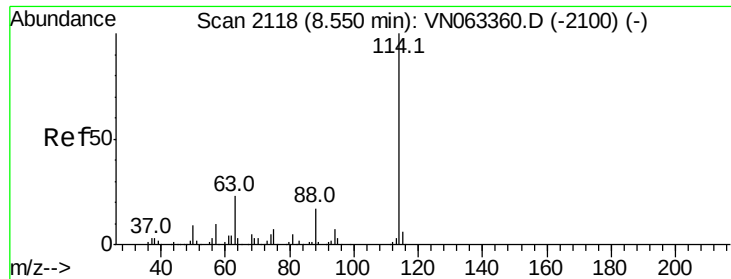
#33
1,2-Dichloroethane-d4
Concen: 50.498 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Tgt Ion: 65 Resp: 173341
Ion Ratio Lower Upper
65 100
67 49.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

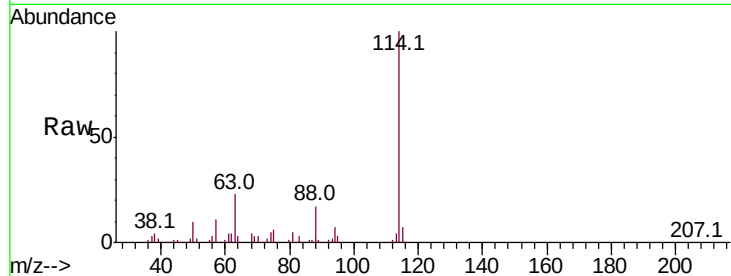




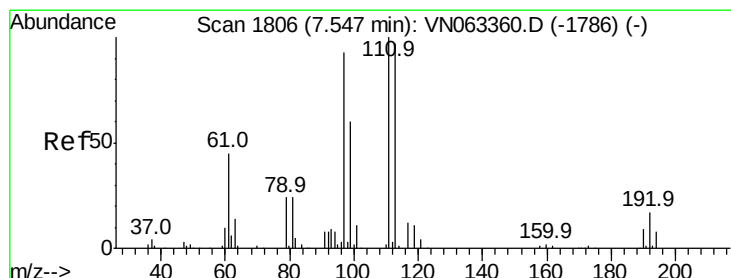
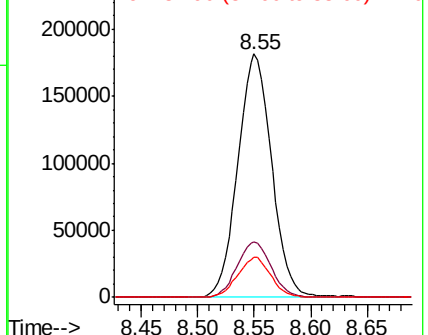
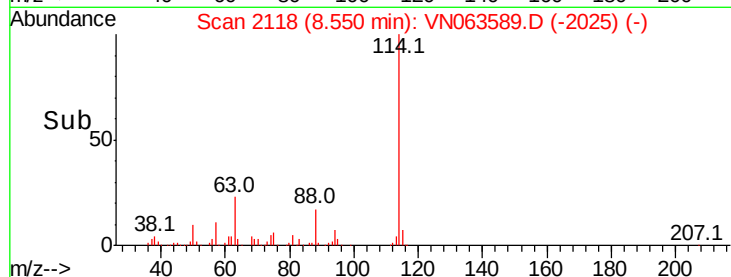
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20200916DL

Tot Ion:114 Resp: 378440
Ion Ratio Lower Upper
114 100
63 22.7 0.0 46.4
88 16.6 0.0 33.2

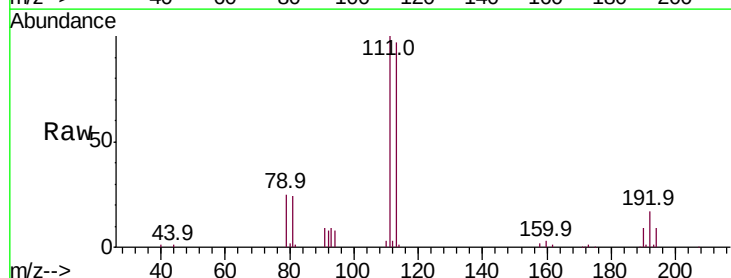


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

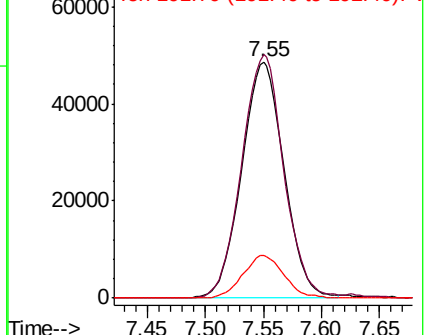
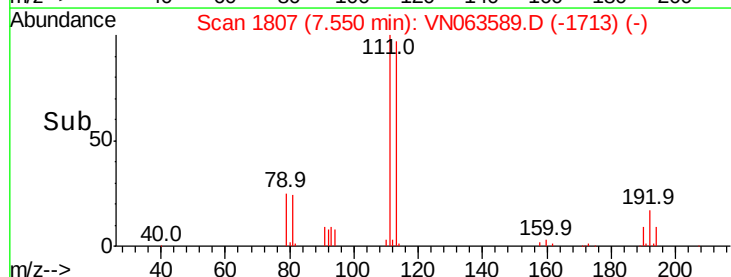


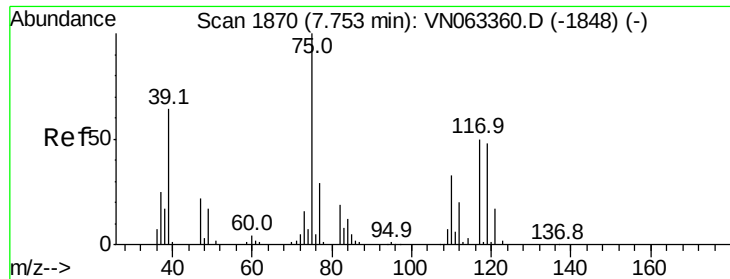
#35
Dibromofluoromethane
Concen: 47.181 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Tgt Ion:113 Resp: 123607
Ion Ratio Lower Upper
113 100
111 102.8 82.9 124.3
192 17.5 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

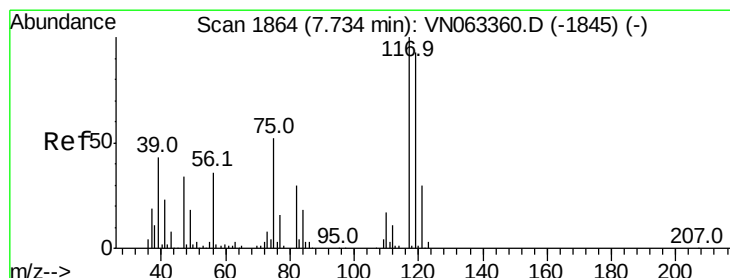
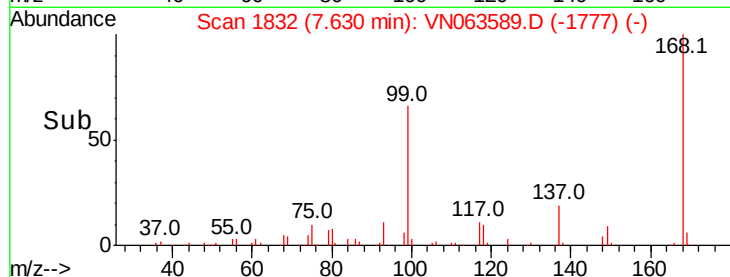
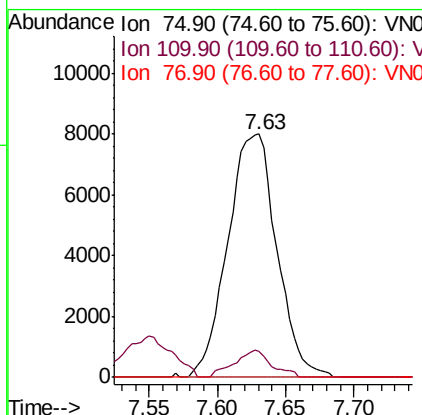
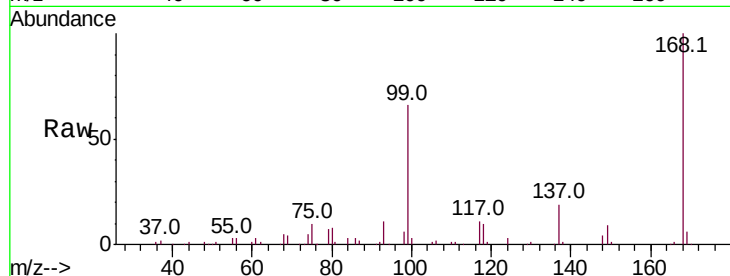




#36
 1,1-Dichloropropene
 Concen: 4.957 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063589.D
 Acq: 23 Sep 2020 15:18

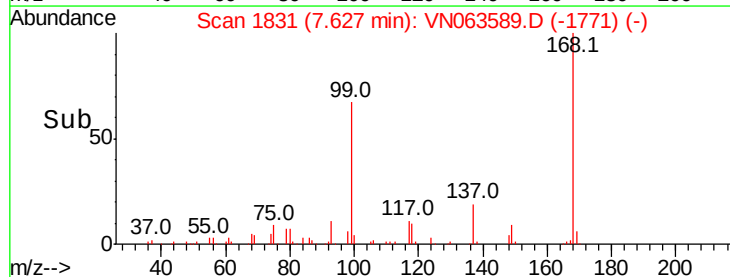
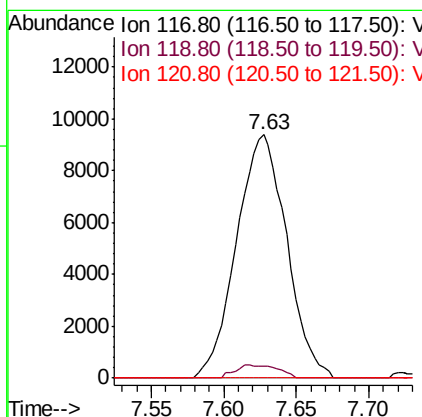
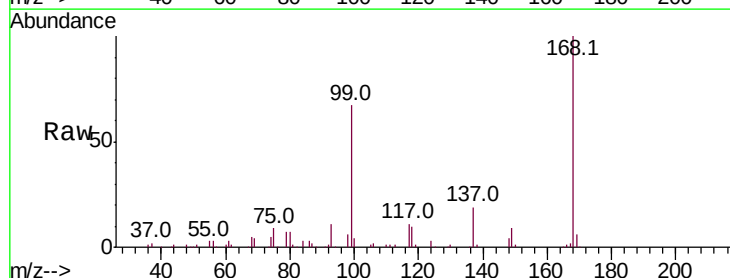
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916DL

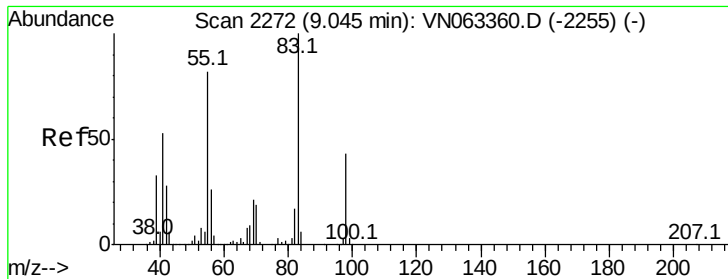
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.472 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063589.D
 Acq: 23 Sep 2020 15:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	74.5	111.7#
121	0.0	24.1	36.1#





#39

Methylcyclohexane

Concen: 0.501 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916DL

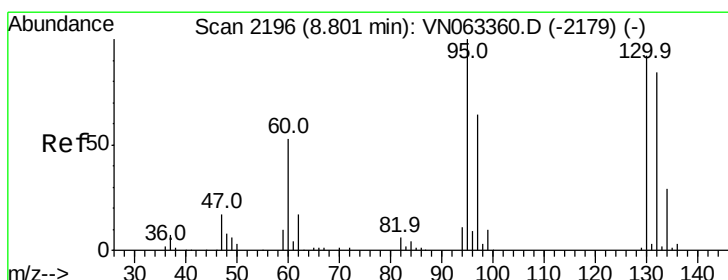
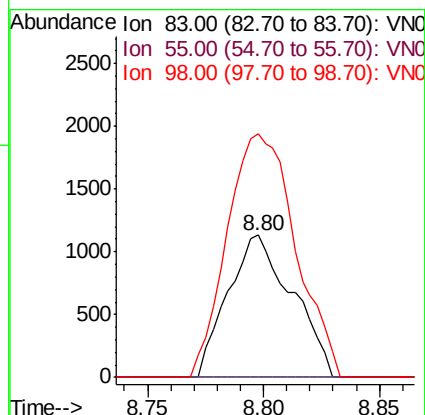
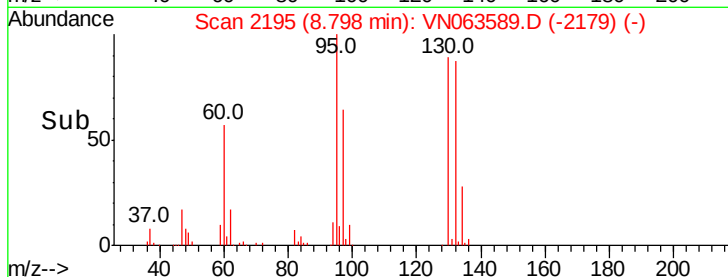
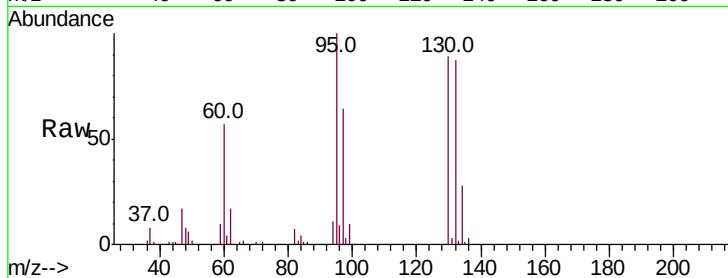
Tot Ion: 83 Resp: 2193

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

98 171.4 34.2 51.4#



#44

Trichloroethene

Concen: 51.934 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063589.D

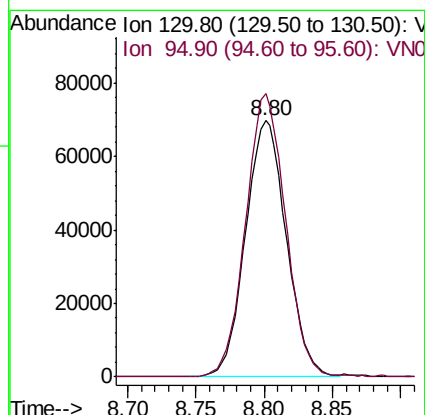
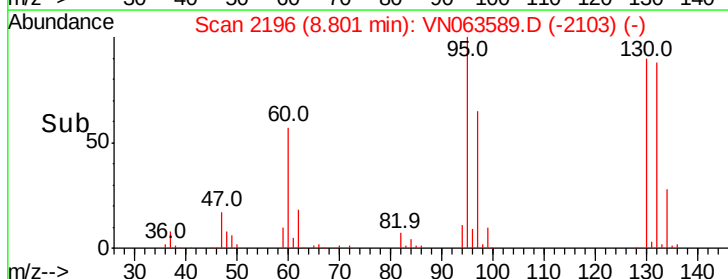
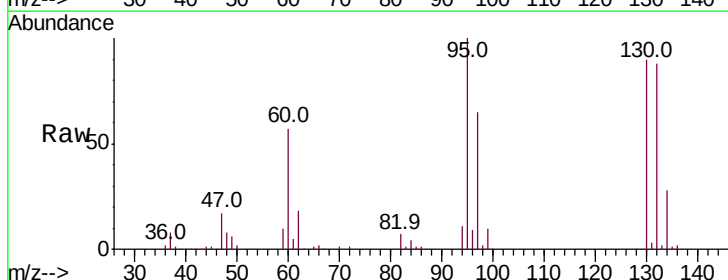
Acq: 23 Sep 2020 15:18

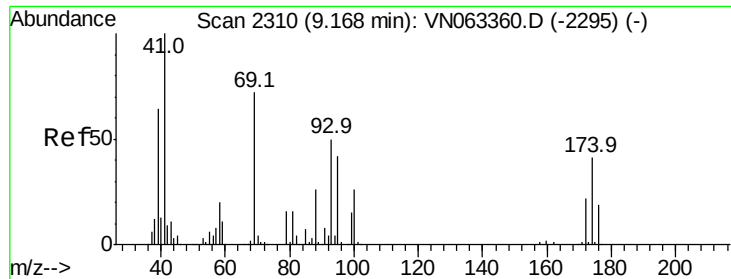
Tgt Ion:130 Resp: 144972

Ion Ratio Lower Upper

130 100

95 110.6 0.0 217.4





#49

1,4-Dioxane

Concen: 2.686 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916DL

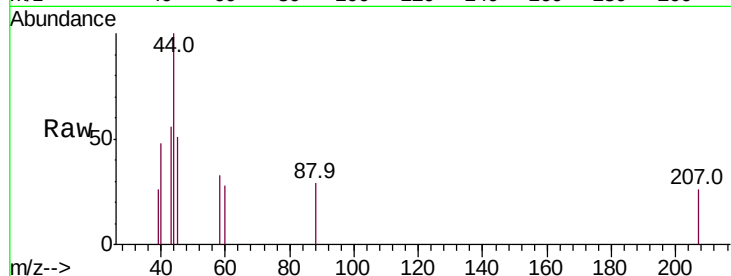
Tot Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 156.0 32.6 49.0#

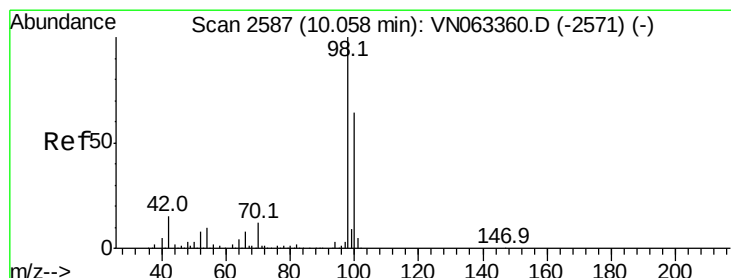
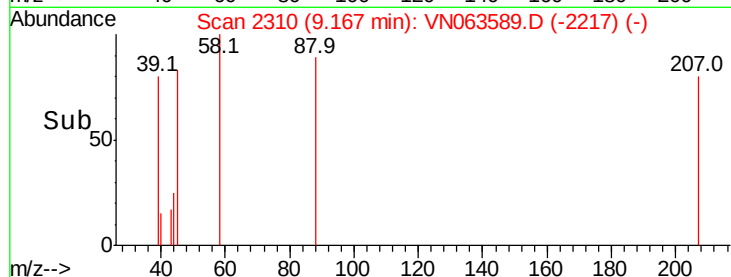
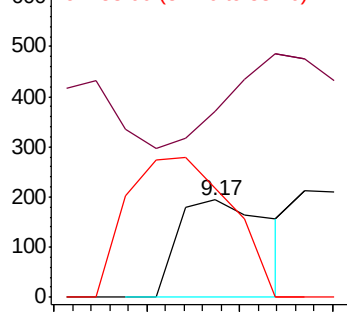
58 162.7 60.0 90.0#



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: 49.222 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063589.D

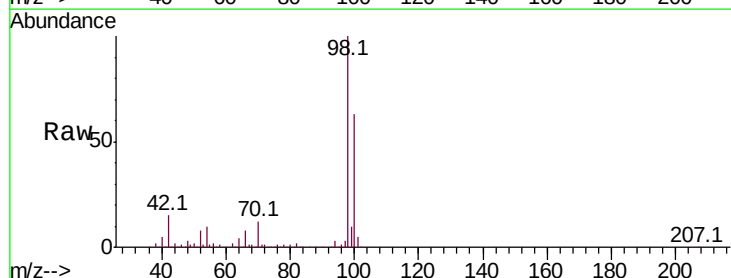
Acq: 23 Sep 2020 15:18

Tgt Ion: 98 Resp: 484898

Ion Ratio Lower Upper

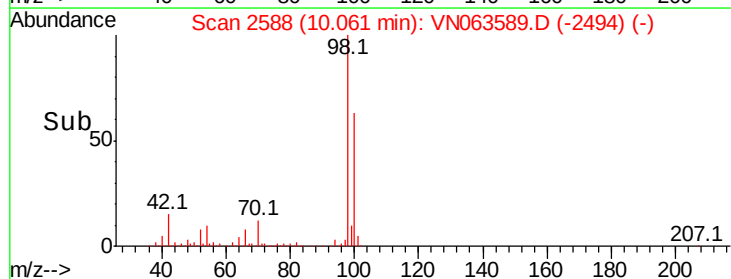
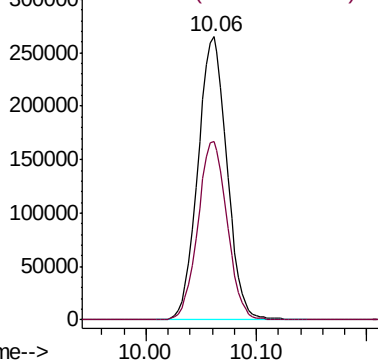
98 100

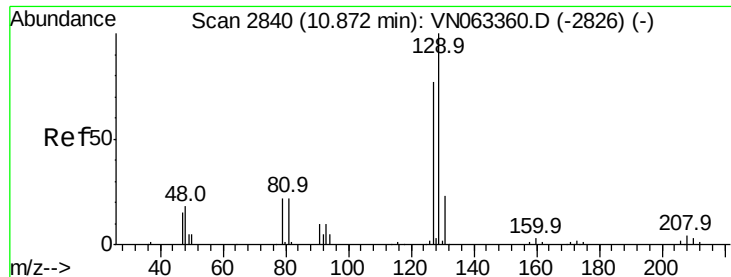
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#60

Dibromochloromethane

Concen: 2.602 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

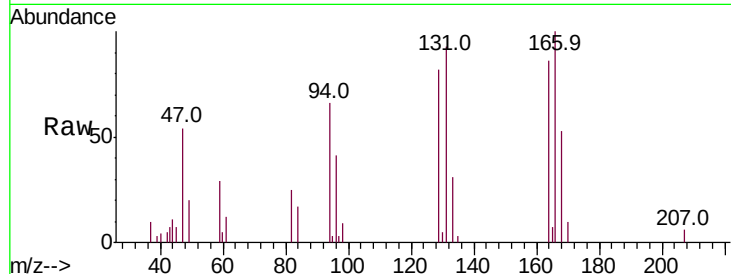
RE131D1-20200916DL

Tot Ion:129 Resp: 8078

Ion Ratio Lower Upper

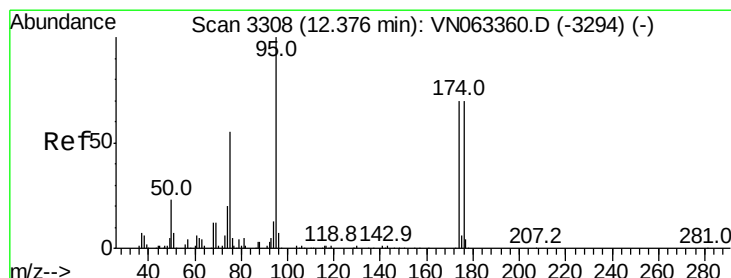
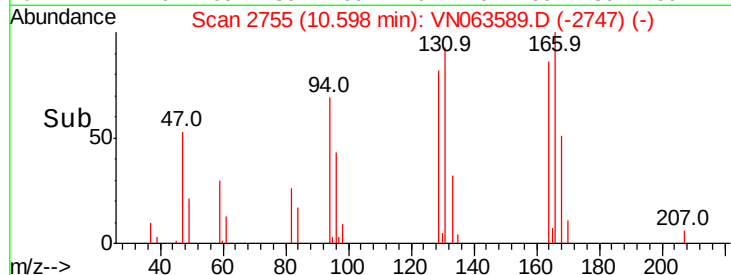
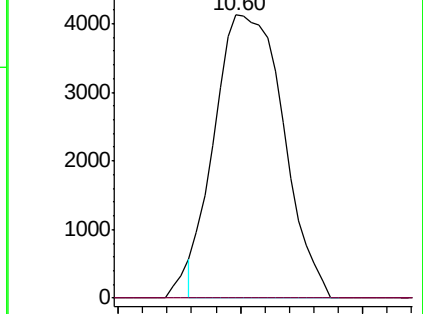
129 100

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



#62

4-Bromofluorobenzene

Concen: 53.527 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

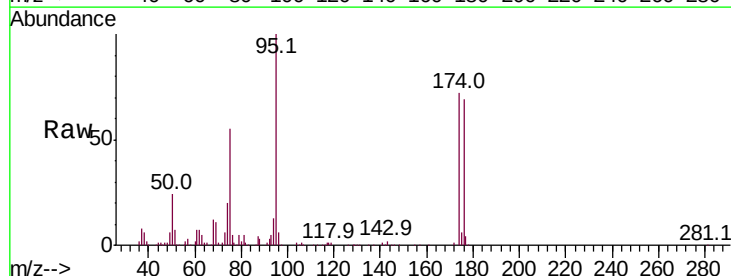
Tgt Ion: 95 Resp: 193298

Ion Ratio Lower Upper

95 100

174 71.9 0.0 140.8

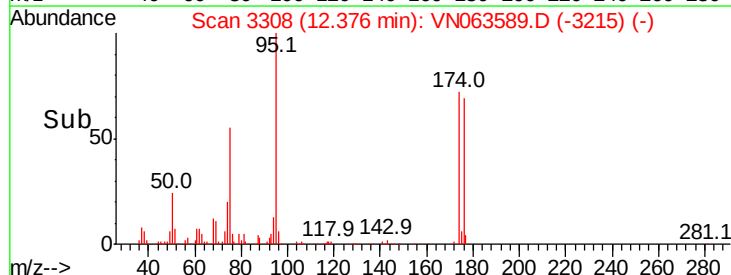
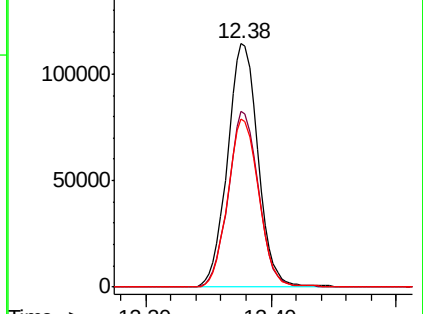
176 70.0 0.0 137.6

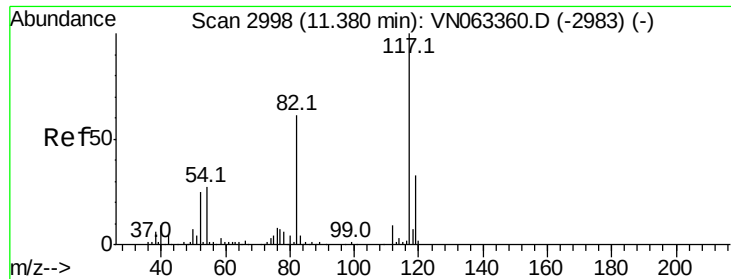


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

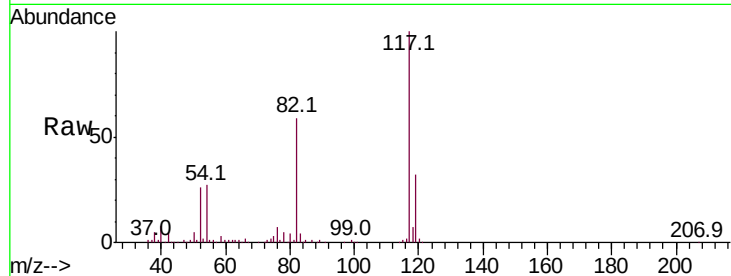




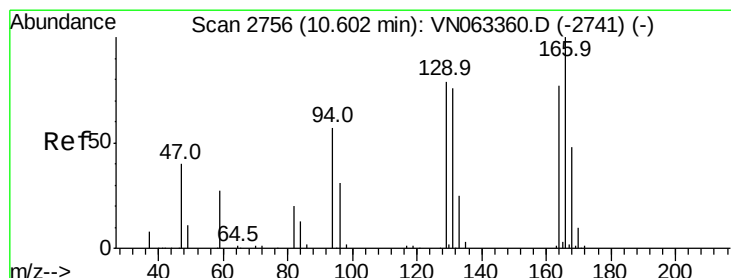
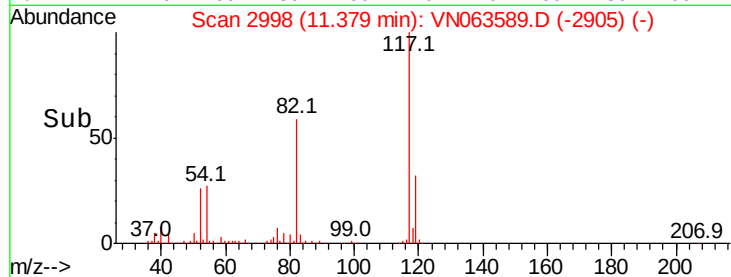
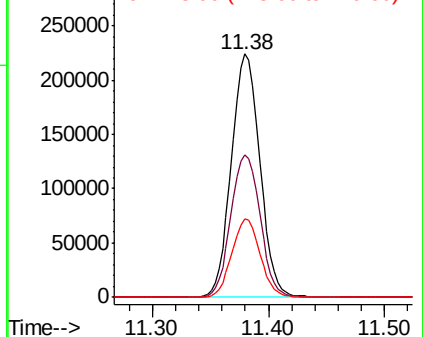
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20200916DL

Tot Ion:117 Resp: 383590
Ion Ratio Lower Upper
117 100
82 58.7 49.2 73.8
119 32.3 26.2 39.4

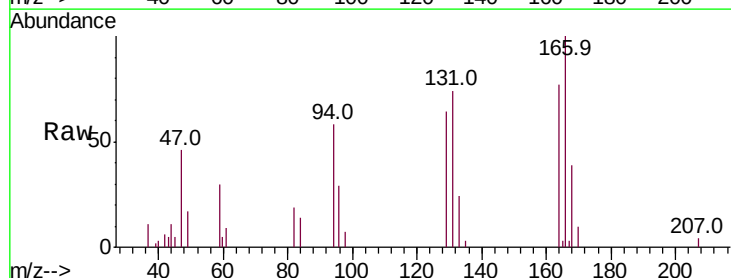


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

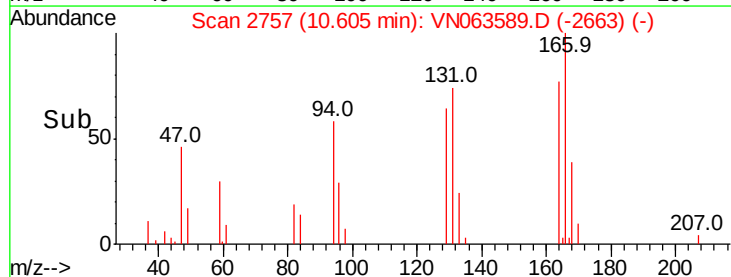
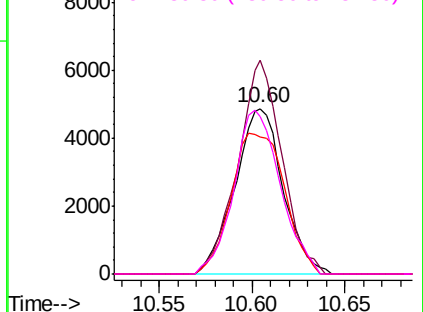


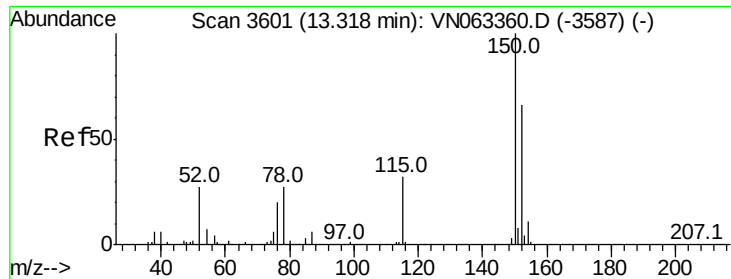
#64
Tetrachloroethene
Concen: 3.373 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063589.D
Acq: 23 Sep 2020 15:18

Tgt Ion:164 Resp: 8810
Ion Ratio Lower Upper
164 100
166 129.3 103.4 155.0
129 82.8 81.8 122.6
131 95.0 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

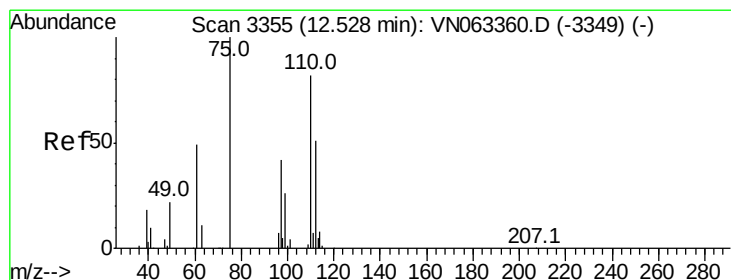
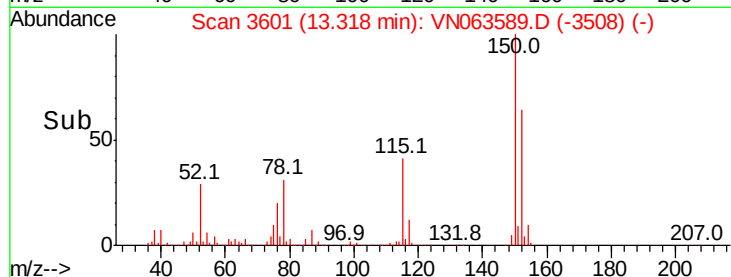
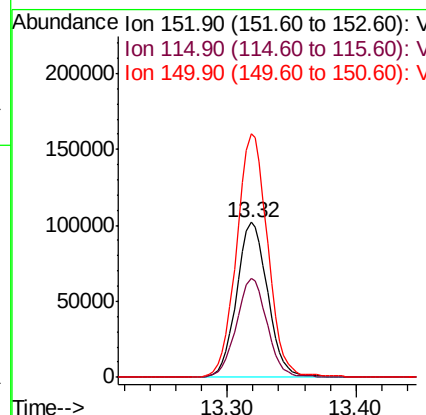
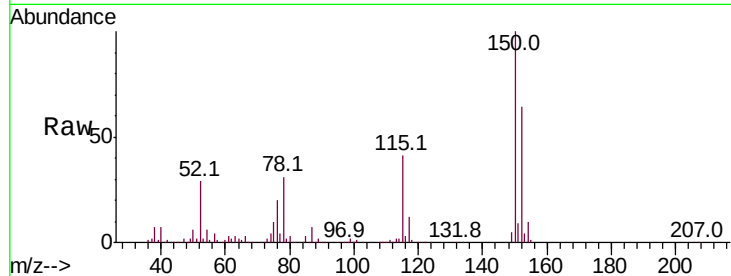




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VN063589.D
 Acq: 23 Sep 2020 15:18

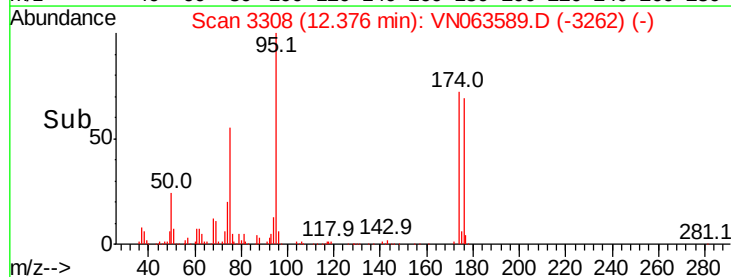
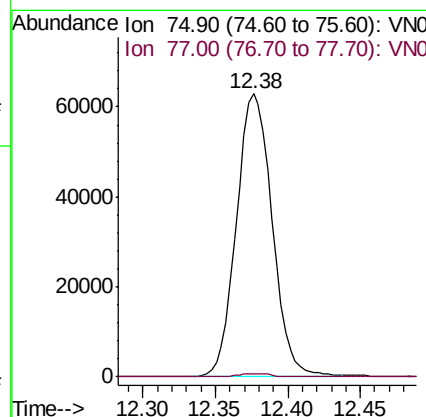
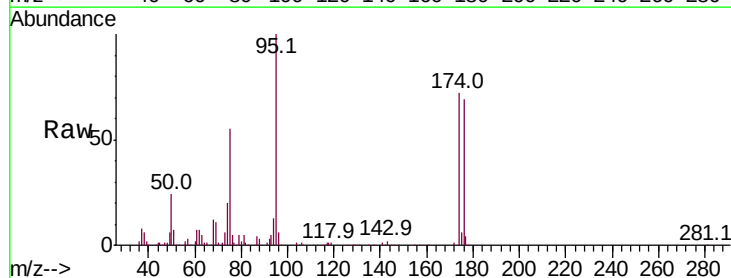
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916DL

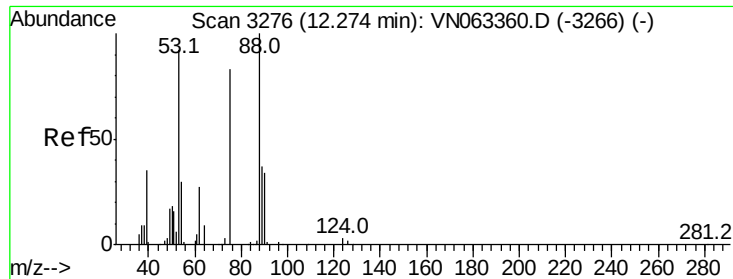
Tot Ion:152 Resp: 170648
 Ion Ratio Lower Upper
 152 100
 115 63.5 32.2 96.6
 150 157.3 0.0 343.4



#76
 1,2,3-Trichloropropane
 Concen: 25.584 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063589.D
 Acq: 23 Sep 2020 15:18

Tgt Ion: 75 Resp: 108060
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.141 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063589.D

Acq: 23 Sep 2020 15:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916DL

Tot Ion: 75 Resp: 108060

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

