

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063543.D
 Acq On : 22 Sep 2020 19:19
 Operator : JC/MD
 Sample : L4082-14DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200915DL

Quant Time: Sep 23 04:02:53 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	226568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	424583	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	427494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	178304	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	189005	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	7.55	113	136176	46.33	ug/l	0.00
Spiked Amount			Recovery	=	92.66%	
50) Toluene-d8	10.06	98	540660	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
62) 4-Bromofluorobenzene	12.38	95	215416	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	

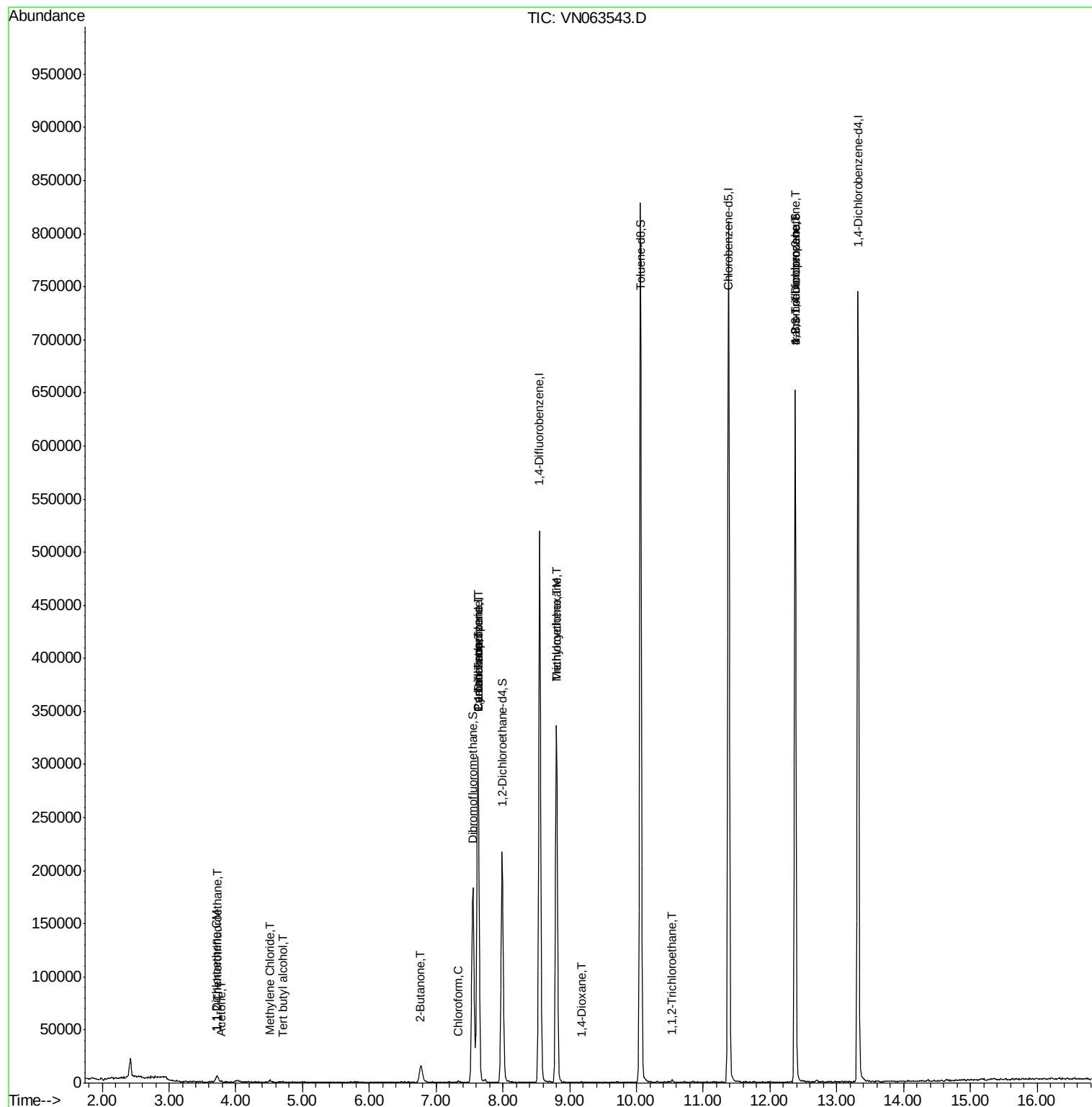
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.71	101	1206	0.478	ug/l #	8
11) Tert butyl alcohol	4.71	59	421	0.788	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	1362	0.533	ug/l #	55
16) Acetone	3.79	43	1283	1.035	ug/l #	85
20) Methylene Chloride	4.51	84	983	0.313	ug/l #	75
25) 2-Butanone	6.76	43	512	0.269	ug/l #	51
30) Chloroform	7.33	83	1363	0.241	ug/l #	83
31) Cyclohexane	7.62	56	6083	1.142	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	21486	4.750	ug/l #	51
38) Carbon Tetrachloride	7.63	117	25642	5.553	ug/l #	17
39) Methylcyclohexane	8.80	83	1838	0.374	ug/l #	1
44) Trichloroethene	8.80	130	112952	36.065	ug/l	99
49) 1,4-Dioxane	9.18	88	30	0.536	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	651	0.211	ug/l #	81
76) 1,2,3-Trichloropropane	12.38	75	119834	27.153	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119834	74.443	ug/l #	7

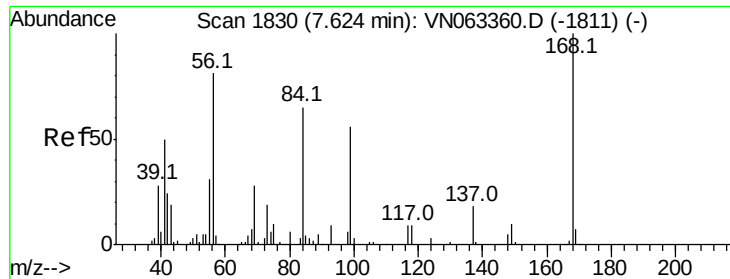
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1832

Delta R.T. 0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

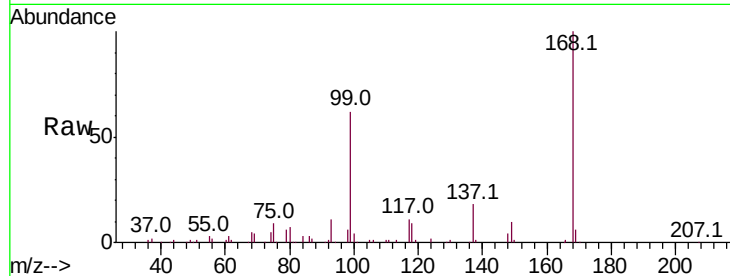
DUP01-20200915DL

Tot Ion:168 Resp: 226568

Ion Ratio Lower Upper

168 100

99 62.0 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

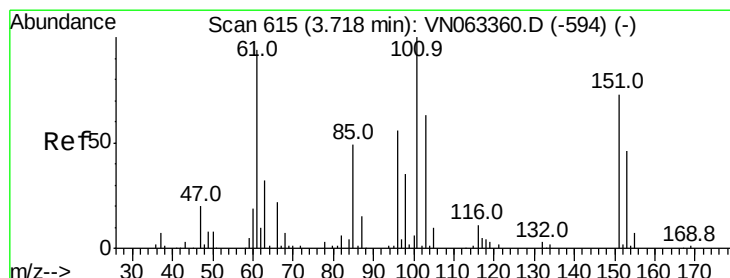
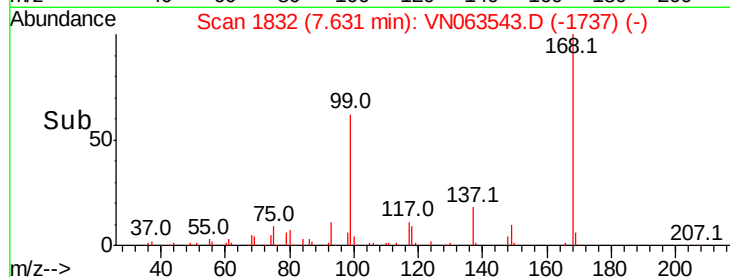
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.478 ug/l

RT: 3.71 min Scan# 613

Delta R.T. -0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

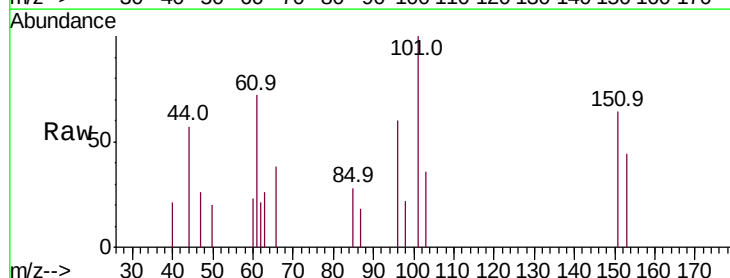
Tgt Ion:101 Resp: 1206

Ion Ratio Lower Upper

101 100

85 80.3 37.7 56.5#

151 172.1 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

1200

1000

800

600

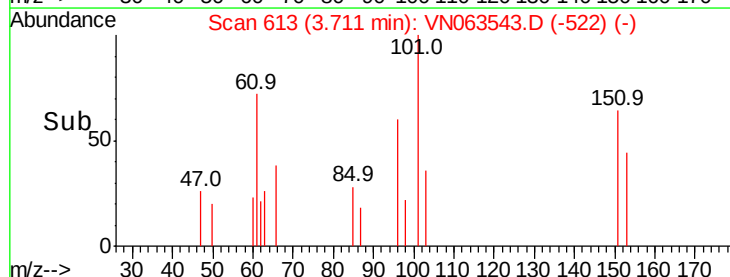
400

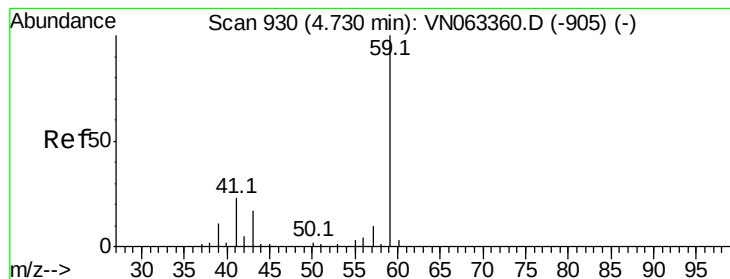
200

0

Time-->

3.68 3.70 3.72





#11

Tert butyl alcohol

Concen: 0.788 ug/l

RT: 4.71 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

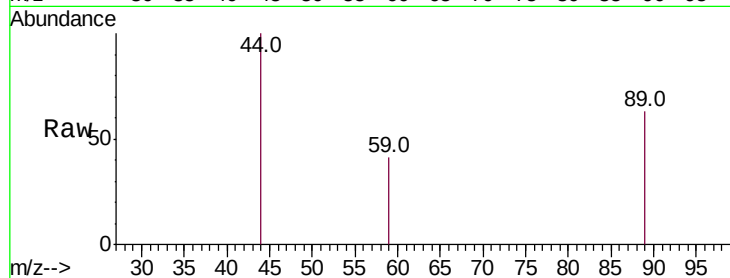
DUP01-20200915DL

Tot Ion: 59 Resp: 421

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063360.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063360.D (-905) (-)

4.71

300

250

200

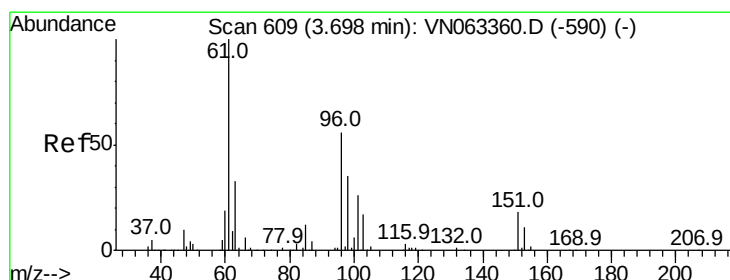
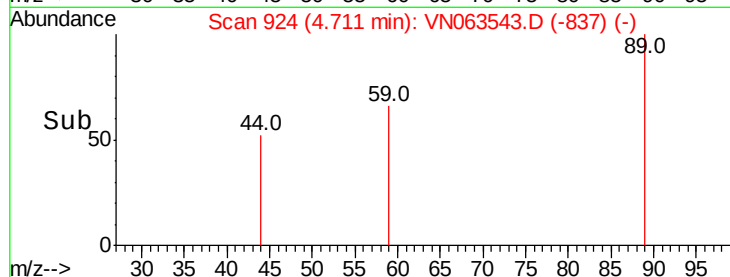
150

100

50

0

Time--> 4.68 4.70 4.72 4.74



#12

1,1-Dichloroethene

Concen: 0.533 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

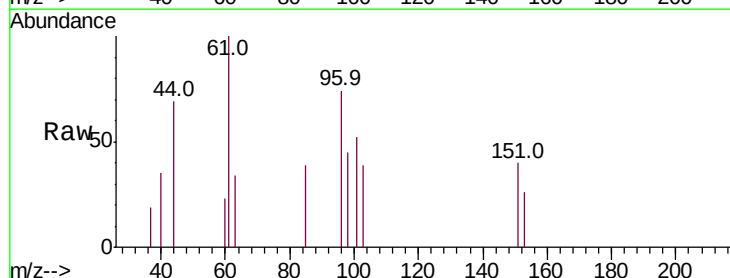
Tgt Ion: 96 Resp: 1362

Ion Ratio Lower Upper

96 100

61 94.2 143.4 215.2#

98 61.1 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VN063360.D (-590) (-)

Ion 60.90 (60.60 to 61.60): VN063360.D (-590) (-)

Ion 97.90 (97.60 to 98.60): VN063360.D (-590) (-)

1200

1000

800

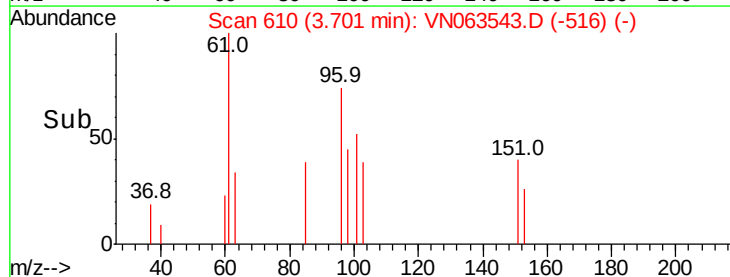
600

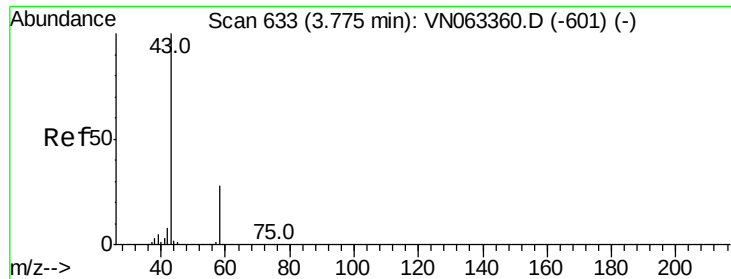
400

200

0

Time--> 3.65 3.70 3.75





#16

Acetone

Concen: 1.035 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

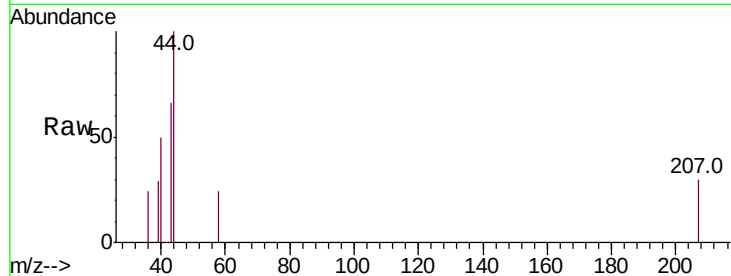
DUP01-20200915DL

Tot Ion: 43 Resp: 1283

Ion Ratio Lower Upper

43 100

58 35.9 22.3 33.5#



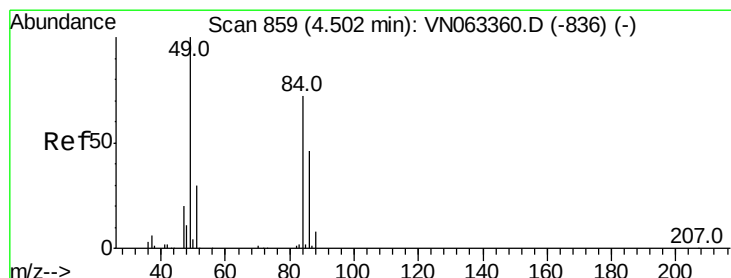
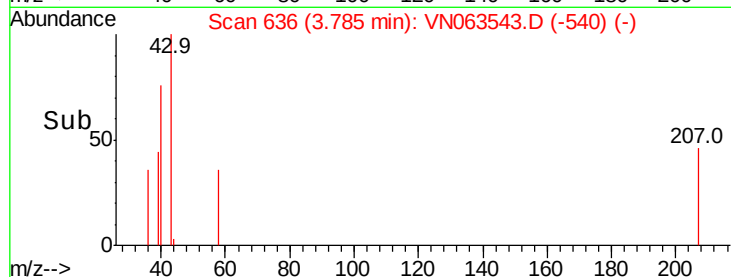
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

Time-->

3.75 3.80



#20

Methylene Chloride

Concen: 0.313 ug/l

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Tgt Ion: 84 Resp: 983

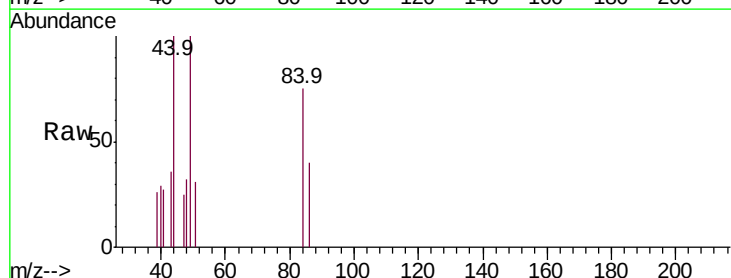
Ion Ratio Lower Upper

84 100

49 93.7 110.7 166.1#

51 41.0 32.9 49.3

86 52.5 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

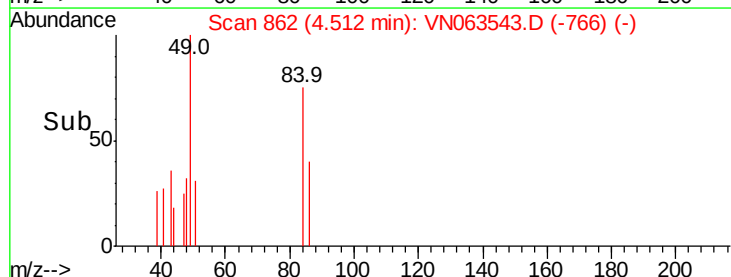
Ion 50.90 (50.60 to 51.60): VN0

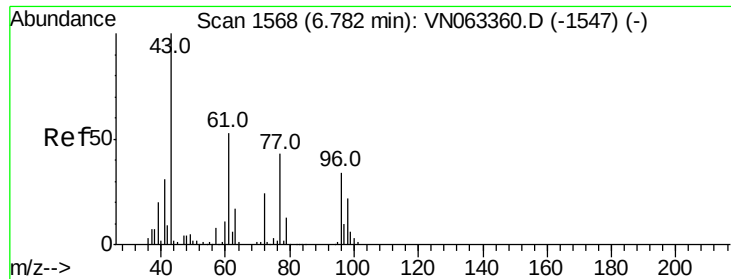
Ion 85.90 (85.60 to 86.60): VN0

4.51

Time-->

4.45 4.50 4.55

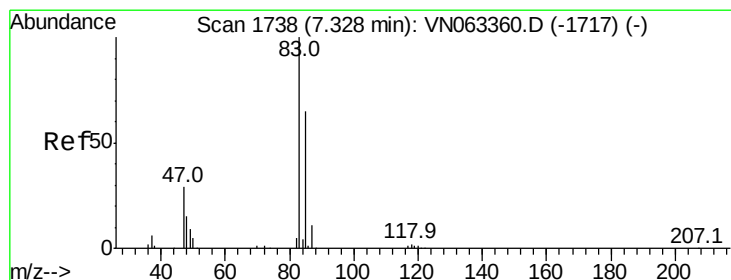
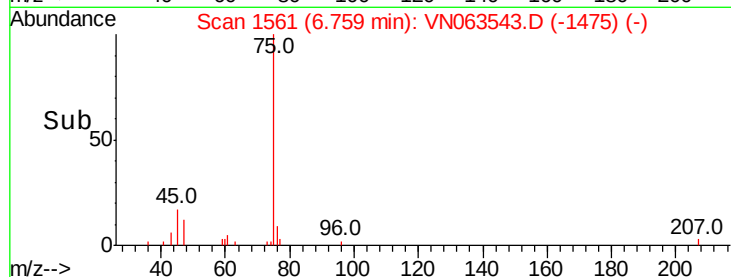
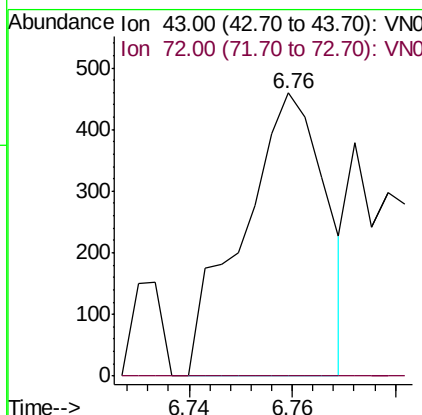
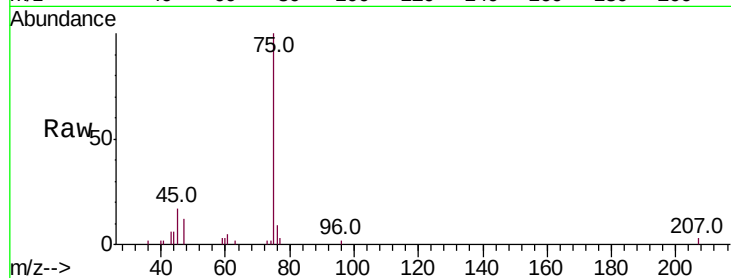




#25
2-Butanone
Concen: 0.269 ug/l
RT: 6.76 min Scan# 1561
Delta R.T. -0.02 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

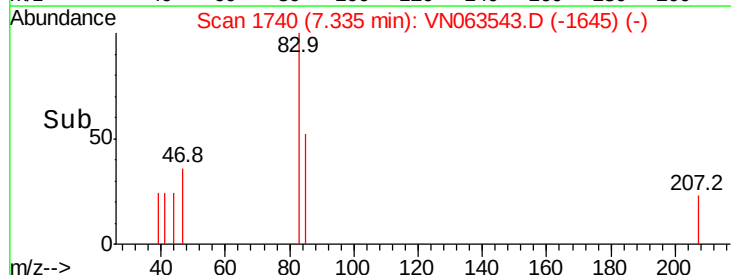
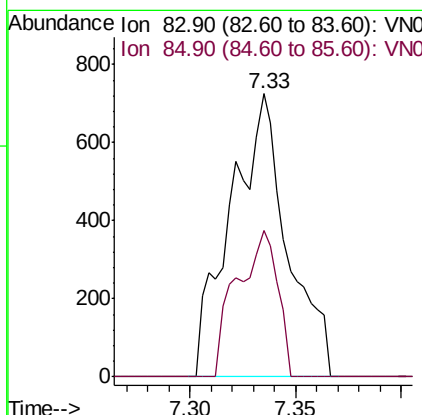
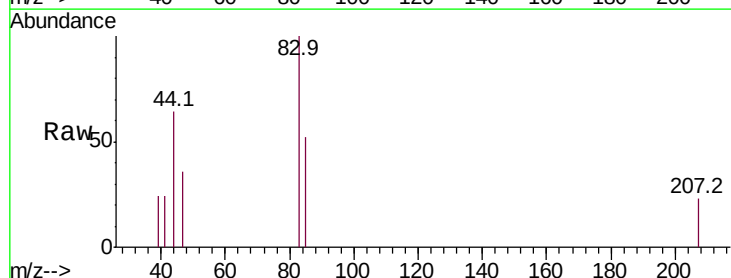
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200915DL

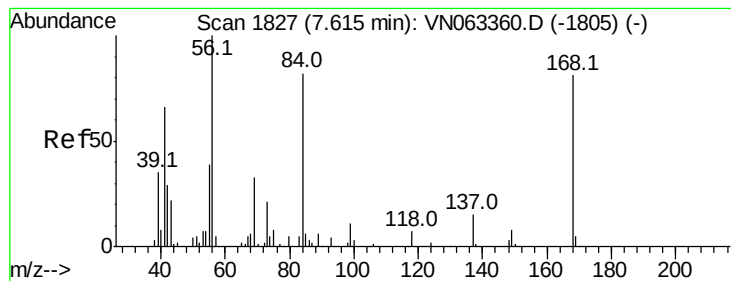
Tot Ion: 43 Resp: 512
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#30
Chloroform
Concen: 0.241 ug/l
RT: 7.33 min Scan# 1740
Delta R.T. 0.01 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Tgt Ion: 83 Resp: 1363
Ion Ratio Lower Upper
83 100
85 51.6 52.1 78.1#





#31

Cyclohexane

Concen: 1.142 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915DL

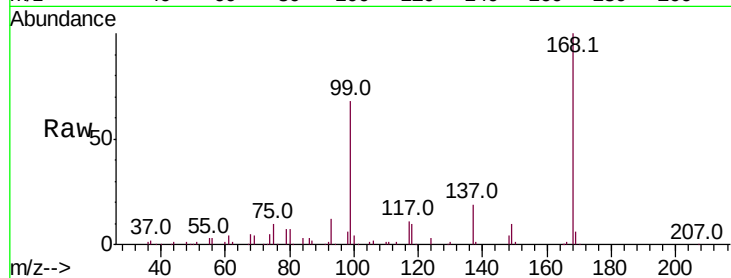
Tot Ion: 56 Resp: 6083

Ion Ratio Lower Upper

56 100

69 144.6 26.1 39.1#

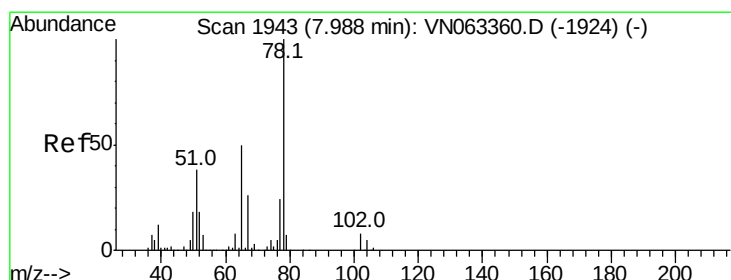
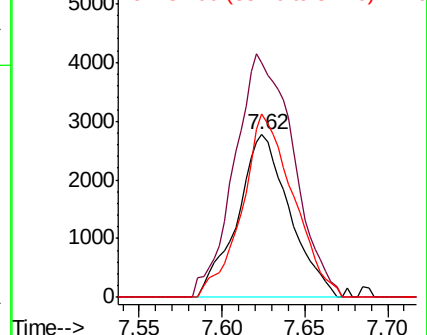
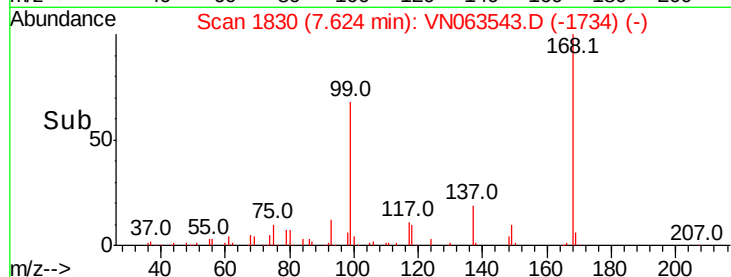
84 113.1 65.4 98.2#



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: 49.006 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063543.D

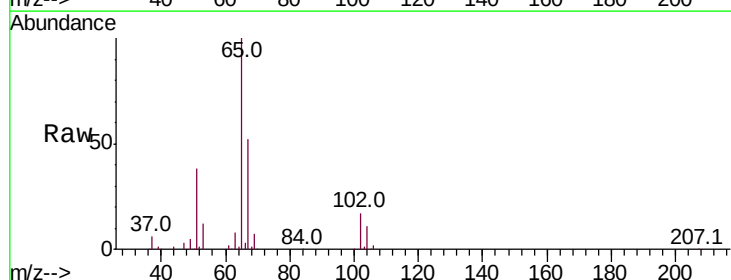
Acq: 22 Sep 2020 19:19

Tgt Ion: 65 Resp: 189005

Ion Ratio Lower Upper

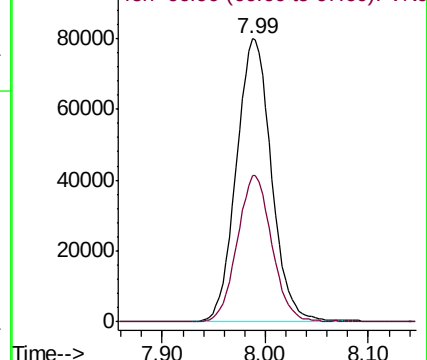
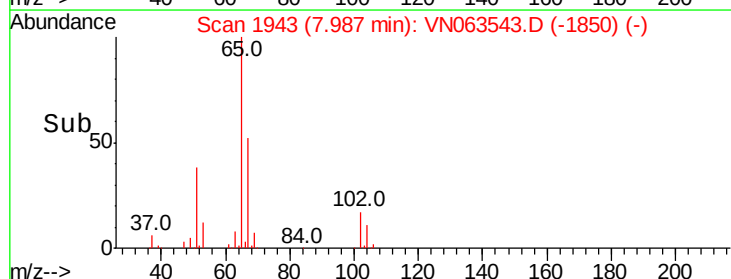
65 100

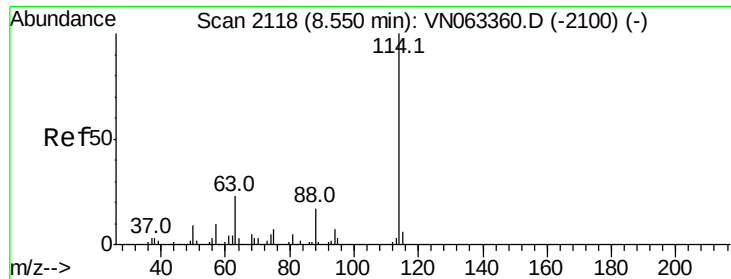
67 51.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

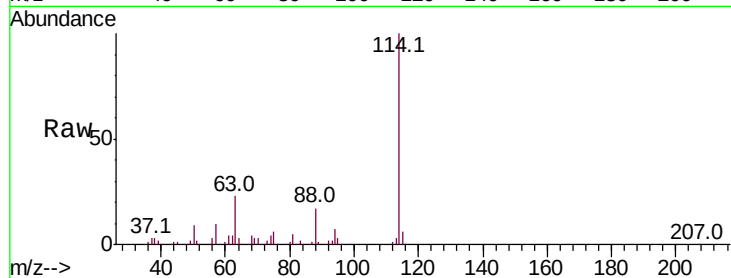




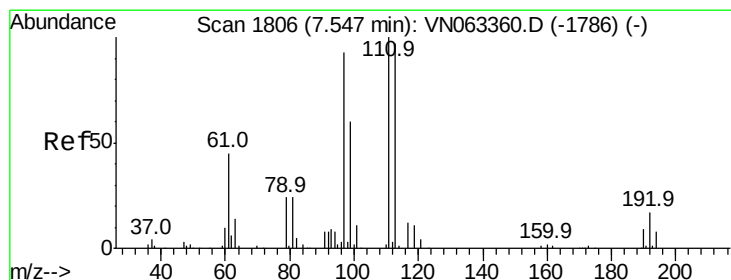
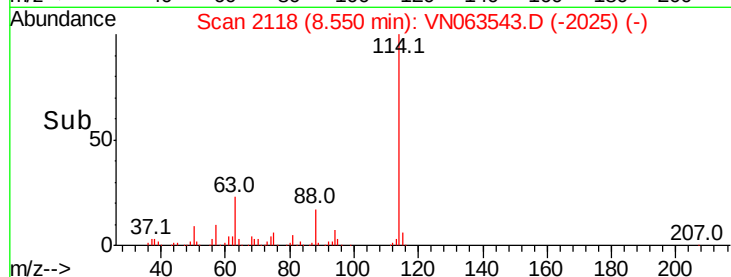
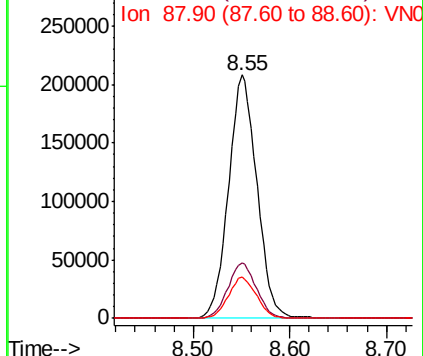
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Instrument :
MSVOA_N
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DUP01-20200915DL

Tot Ion:114 Resp: 424583
Ion Ratio Lower Upper
114 100
63 22.8 0.0 46.4
88 16.8 0.0 33.2

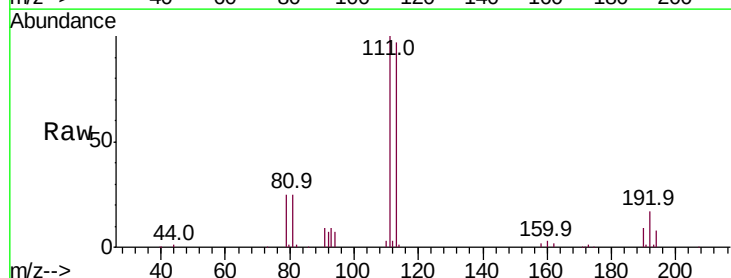


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

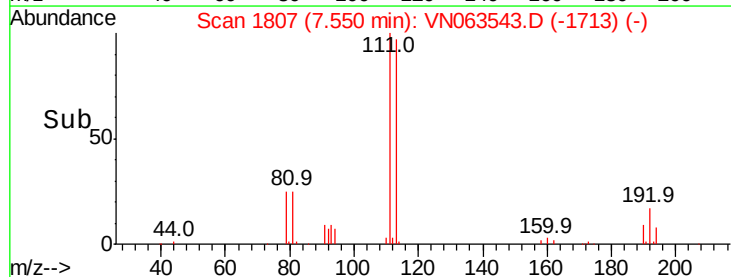
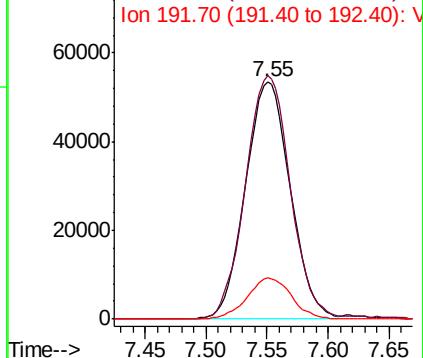


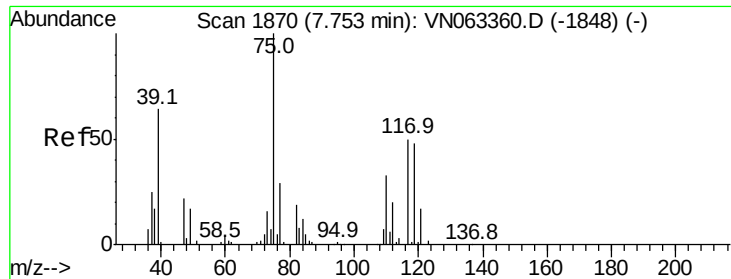
#35
Dibromofluoromethane
Concen: 46.329 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Tgt Ion:113 Resp: 136176
Ion Ratio Lower Upper
113 100
111 102.8 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: 4.750 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915DL

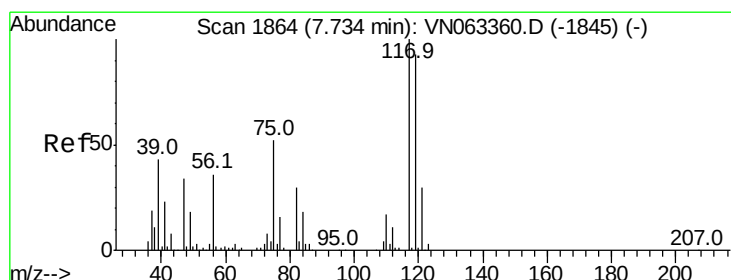
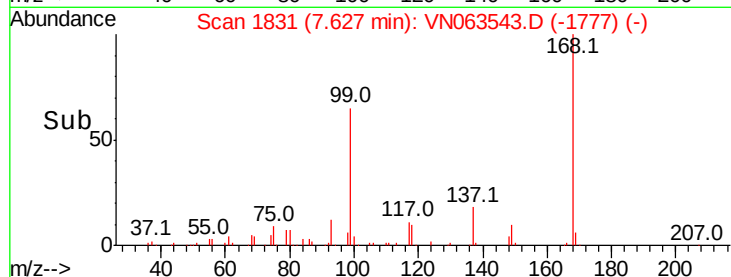
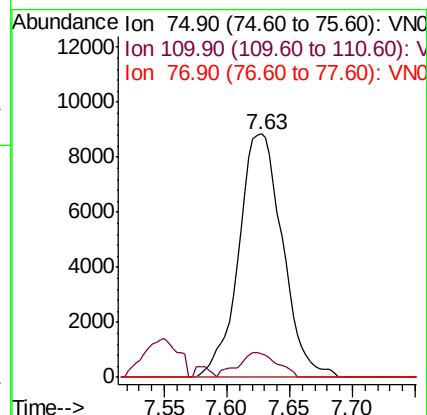
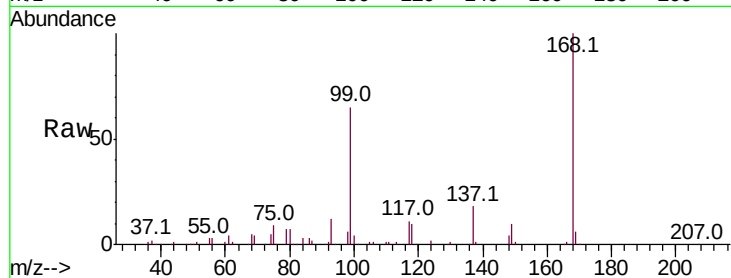
Tot Ion: 75 Resp: 21486

Ion Ratio Lower Upper

75 100

110 9.0 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.553 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

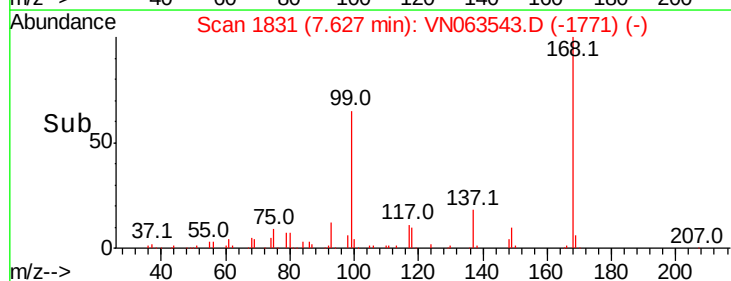
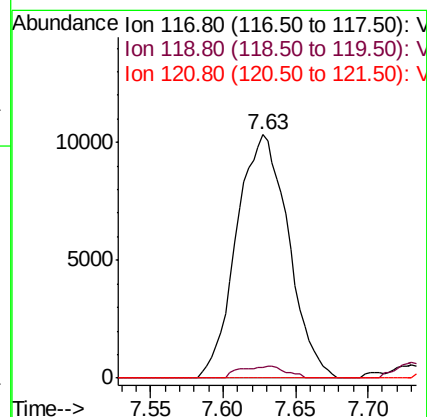
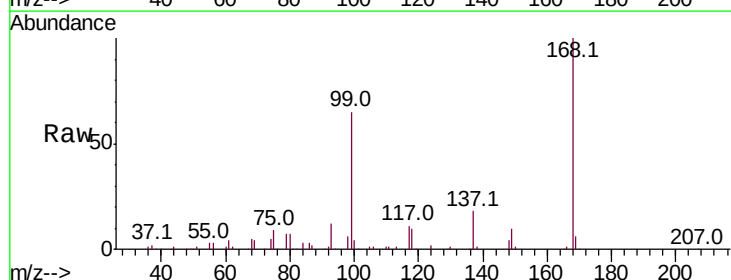
Tgt Ion: 117 Resp: 25642

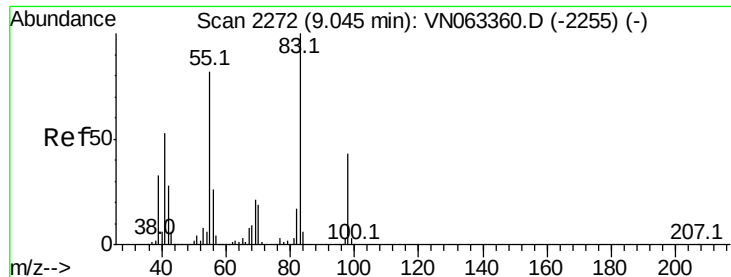
Ion Ratio Lower Upper

117 100

119 4.5 74.5 111.7#

121 0.0 24.1 36.1#

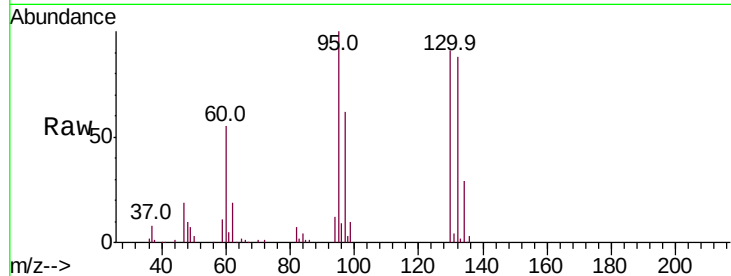




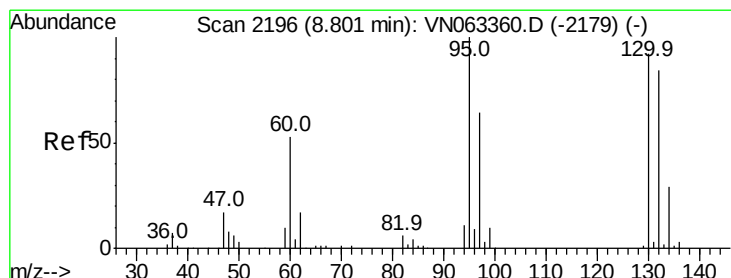
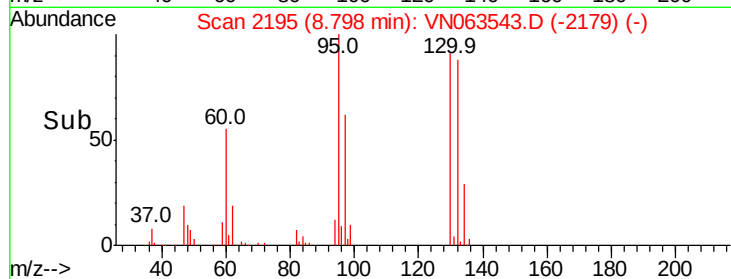
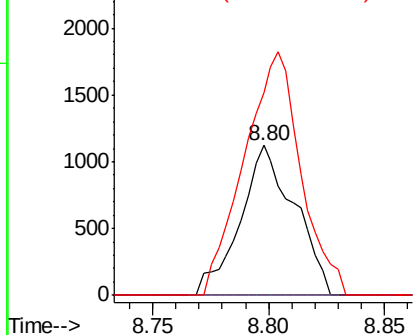
#39
Methylcyclohexane
Concen: 0.374 ug/l
RT: 8.80 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200915DL

Tot Ion: 83 Resp: 1838
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 134.8 34.2 51.4#

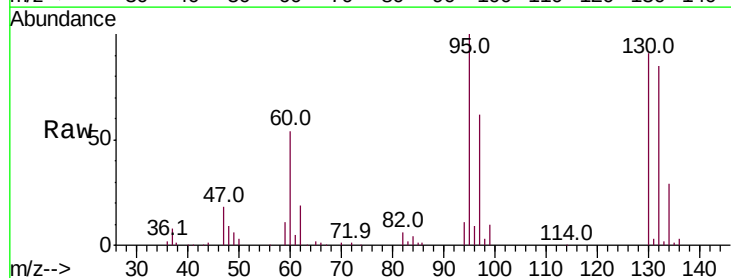


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

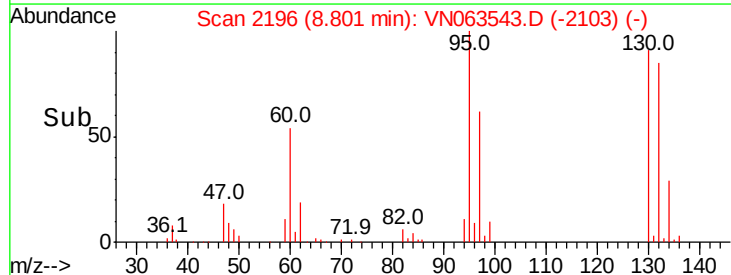
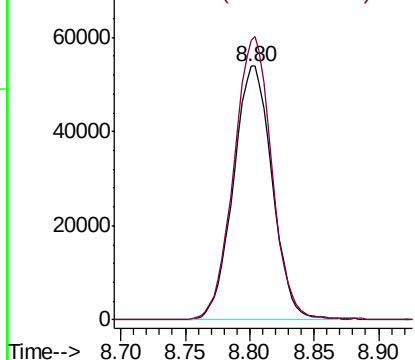


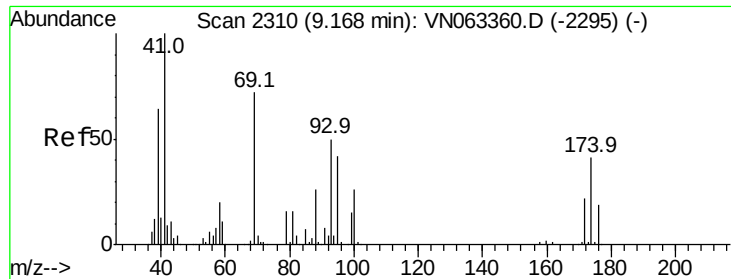
#44
Trichloroethene
Concen: 36.065 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Tgt Ion:130 Resp: 112952
Ion Ratio Lower Upper
130 100
95 109.9 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: 0.536 ug/l

RT: 9.18 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915DL

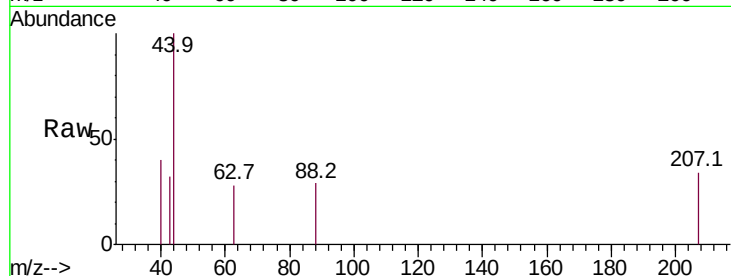
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 520.0 32.6 49.0#

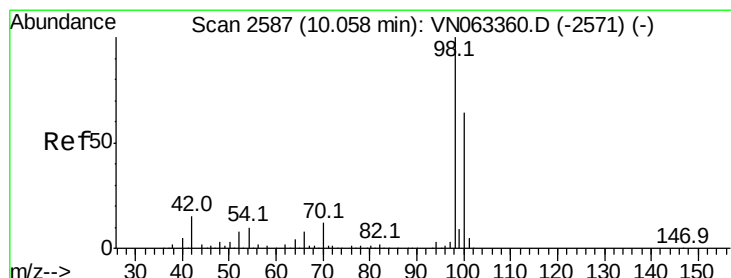
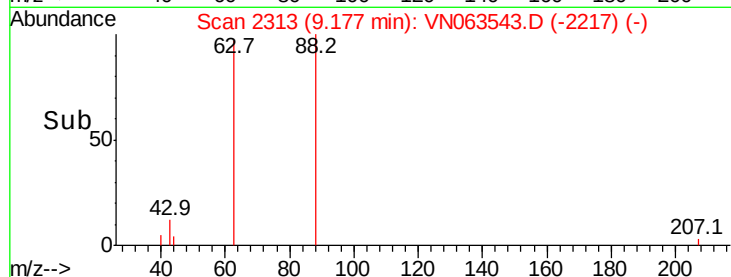
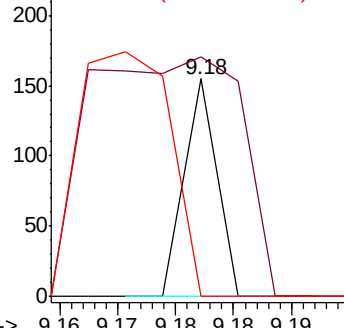
58 320.0 60.0 90.0#



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: 48.918 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063543.D

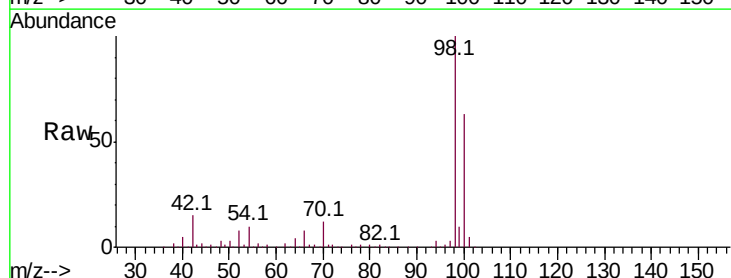
Acq: 22 Sep 2020 19:19

Tgt Ion: 98 Resp: 540660

Ion Ratio Lower Upper

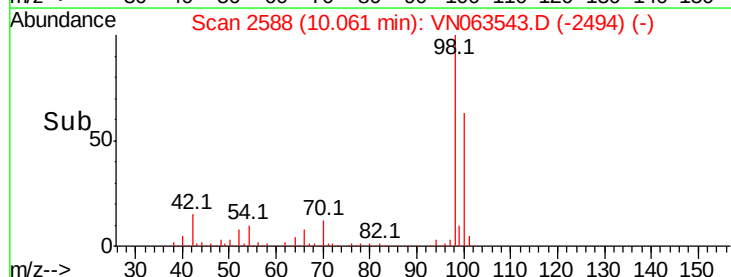
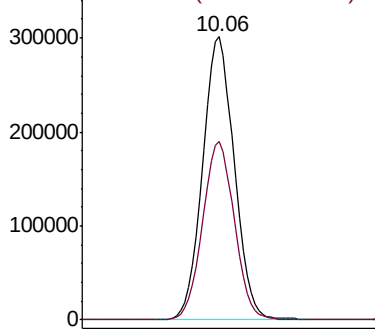
98 100

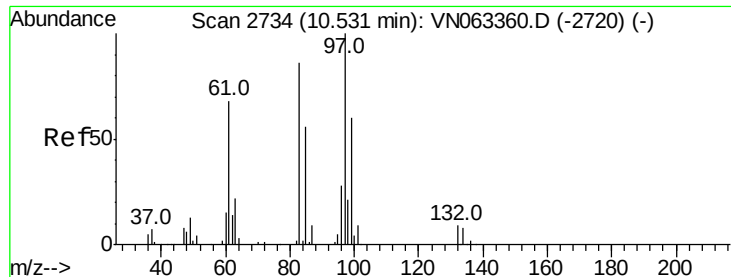
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

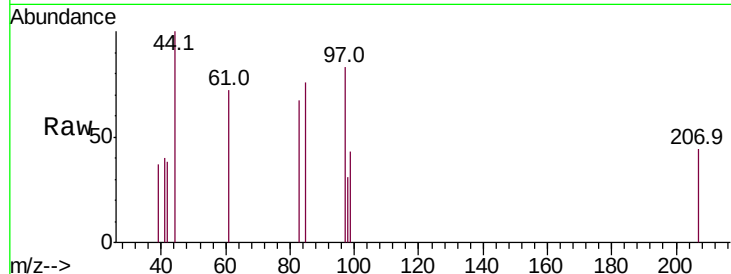




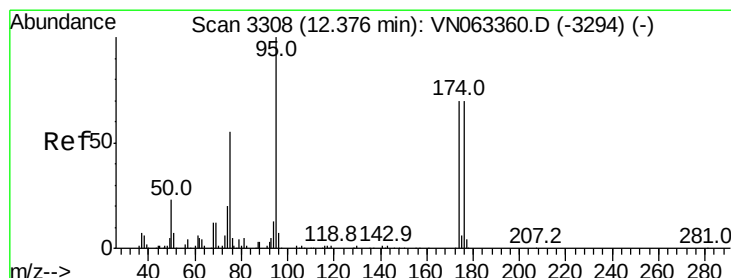
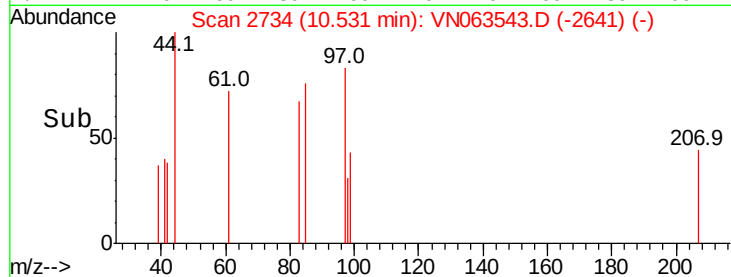
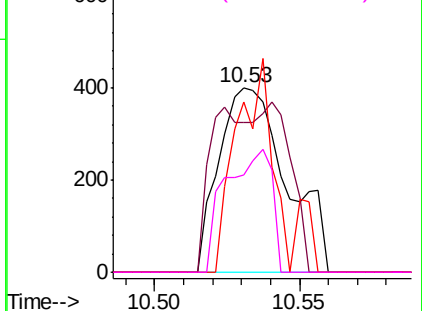
#55
 1,1,2-Trichloroethane
 Concen: 0.211 ug/l
 RT: 10.53 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN063543.D
 Acq: 22 Sep 2020 19:19

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200915DL

Tot Ion: 97 Resp: 651
 Ion Ratio Lower Upper
 97 100
 83 81.0 68.9 103.3
 85 91.8 44.8 67.2#
 99 52.4 47.8 71.8

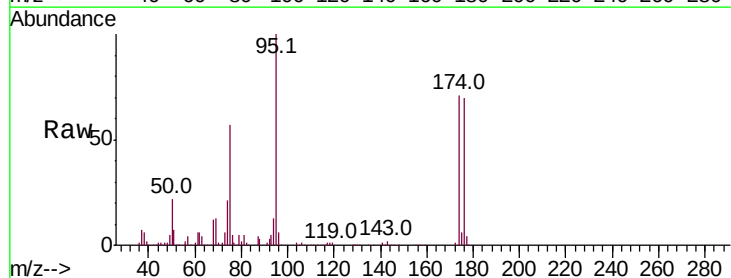


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

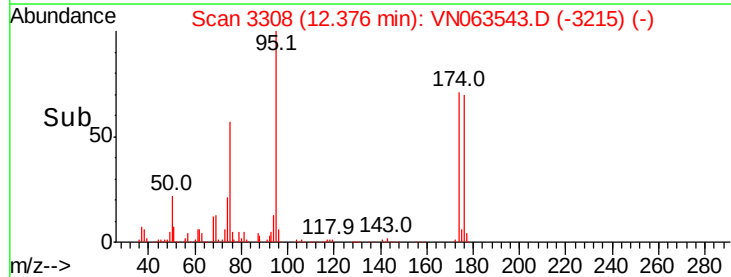
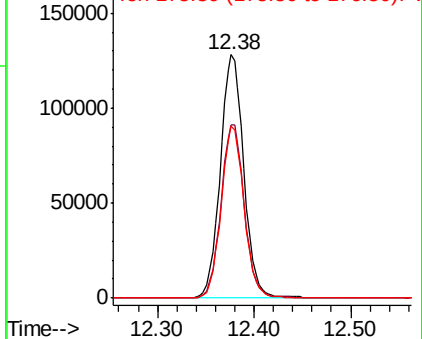


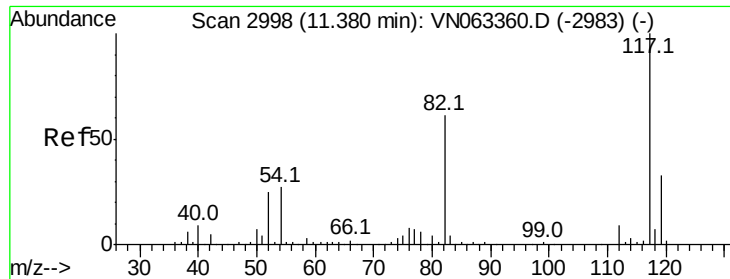
#62
 4-Bromofluorobenzene
 Concen: 53.169 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.00 min
 Lab File: VN063543.D
 Acq: 22 Sep 2020 19:19

Tgt Ion: 95 Resp: 215416
 Ion Ratio Lower Upper
 95 100
 174 70.5 0.0 140.8
 176 68.9 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

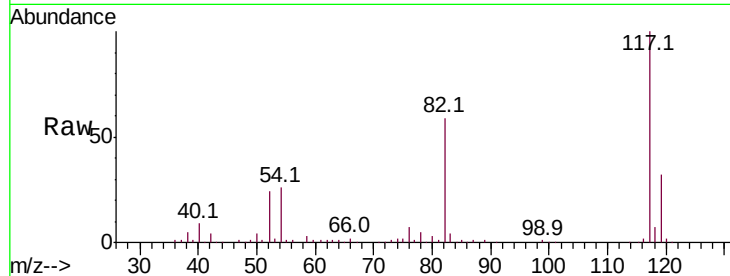




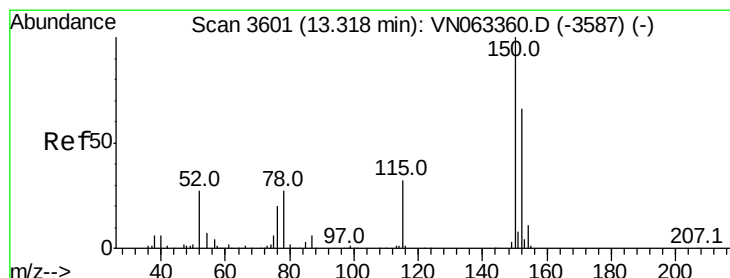
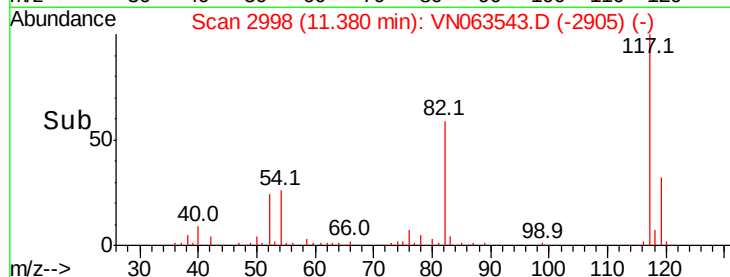
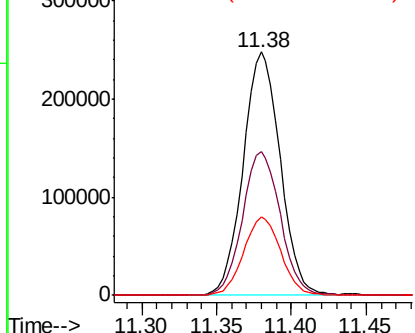
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200915DL

Tot Ion:117 Resp: 427494
Ion Ratio Lower Upper
117 100
82 59.0 49.2 73.8
119 32.0 26.2 39.4

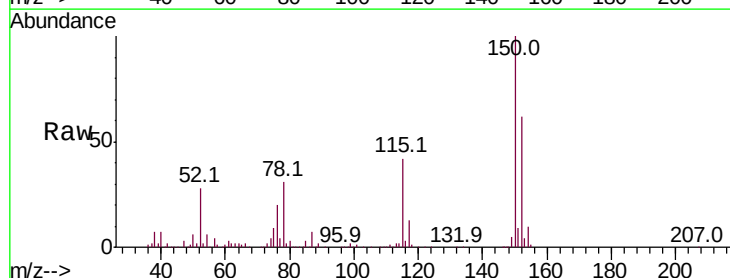


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

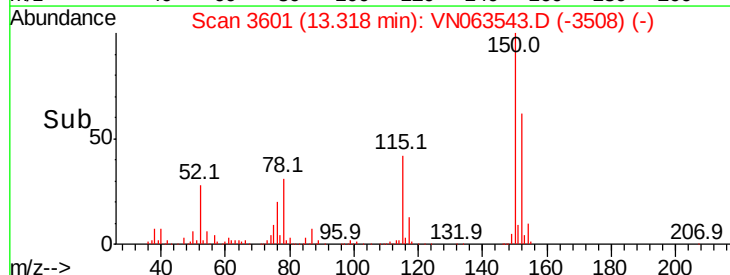
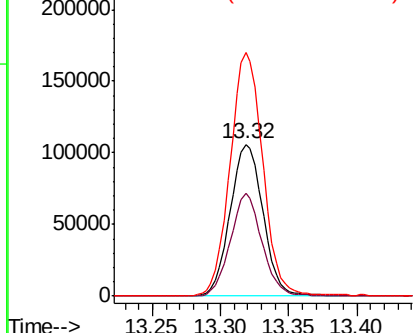


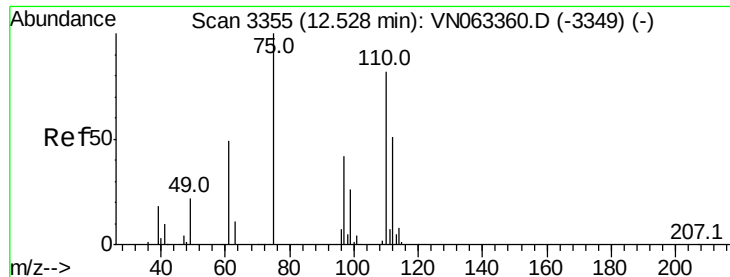
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063543.D
Acq: 22 Sep 2020 19:19

Tgt Ion:152 Resp: 178304
Ion Ratio Lower Upper
152 100
115 65.0 32.2 96.6
150 159.2 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: 27.153 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

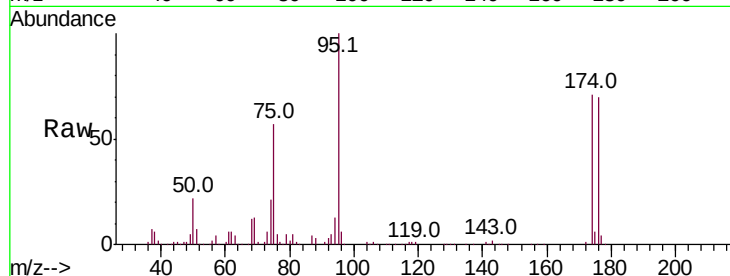
DUP01-20200915DL

Tot Ion: 75 Resp: 119834

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

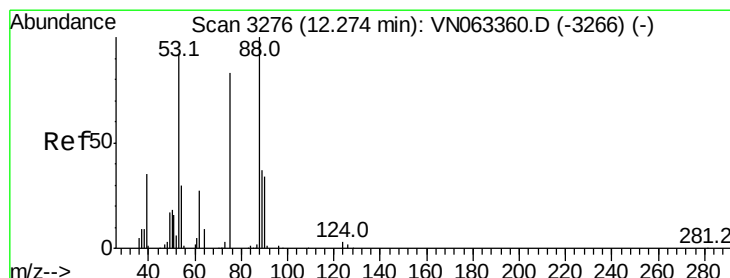
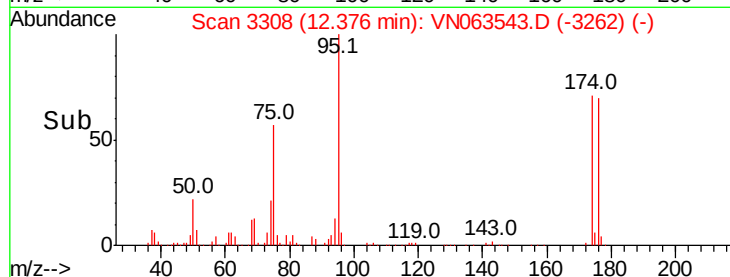
40000

20000

0

Time-->

12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 74.443 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063543.D

Acq: 22 Sep 2020 19:19

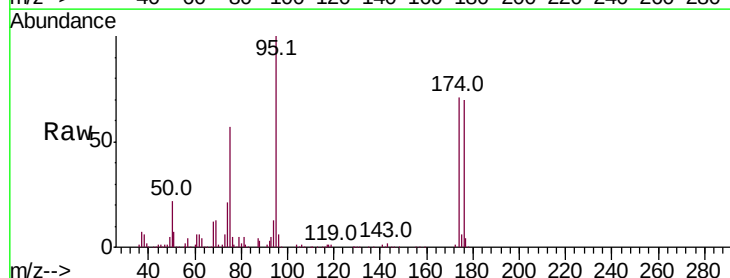
Tgt Ion: 75 Resp: 119834

Ion Ratio Lower Upper

75 100

53 0.1 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

100000

80000

60000

40000

20000

0

Time-->

12.30 12.40 12.50

