

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063519.D
 Acq On : 22 Sep 2020 5:41
 Operator : JC/MD
 Sample : L4082-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200915

Quant Time: Sep 22 06:03:55 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	219478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409696	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	404176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169504	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	180947	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	7.55	113	130923	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	
50) Toluene-d8	10.06	98	515556	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	12.38	95	201230	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	

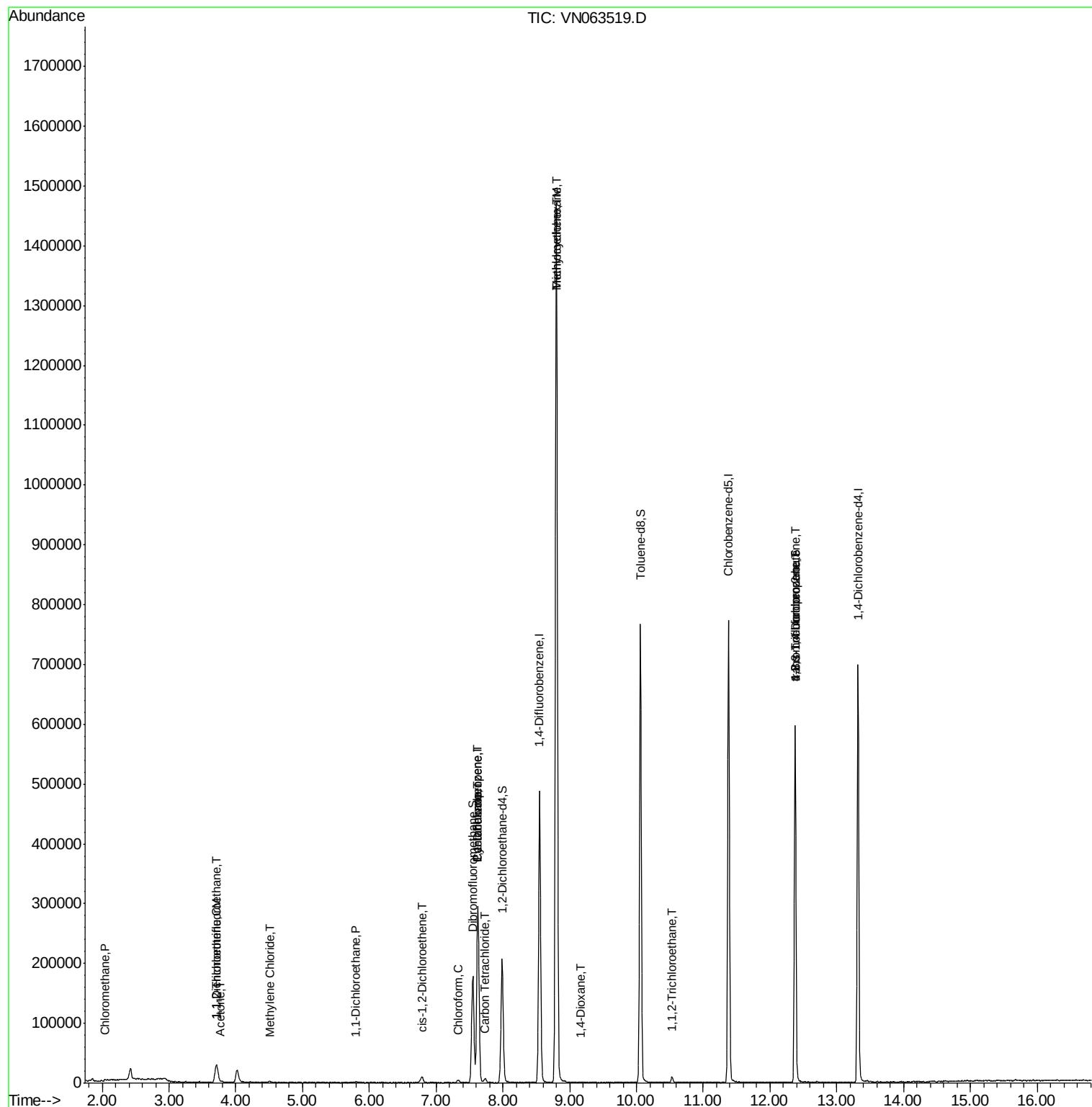
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1095	0.333	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	12101	4.949	ug/l	99
12) 1,1-Dichloroethene	3.70	96	8067	3.257	ug/l #	93
16) Acetone	3.78	43	2752	2.292	ug/l	97
20) Methylene Chloride	4.50	84	949	0.312	ug/l #	54
24) 1,1-Dichloroethane	5.80	63	2938	0.539	ug/l #	84
27) cis-1,2-Dichloroethene	6.78	96	5177	1.667	ug/l	86
30) Chloroform	7.33	83	4315	0.788	ug/l	97
31) Cyclohexane	7.62	56	6119	1.186	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	20084	4.601	ug/l #	51
38) Carbon Tetrachloride	7.73	117	5219	1.171	ug/l	93
39) Methylcyclohexane	8.80	83	6945	1.466	ug/l #	1
44) Trichloroethene	8.80	130	487189	161.212	ug/l	98
49) 1,4-Dioxane	9.17	88	188	3.481	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	2762	0.928	ug/l #	85
76) 1,2,3-Trichloropropane	12.38	75	114743	27.349	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	114743	74.981	ug/l #	7

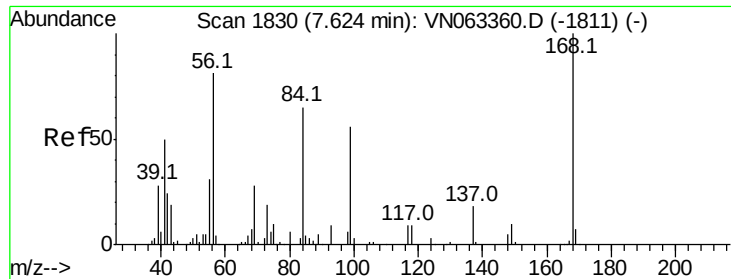
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

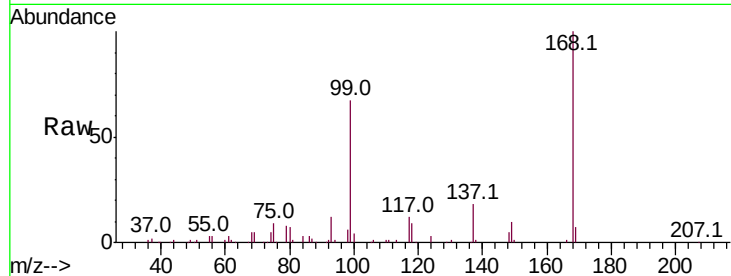
DUP01-20200915

Tot Ion:168 Resp: 219478

Ion Ratio Lower Upper

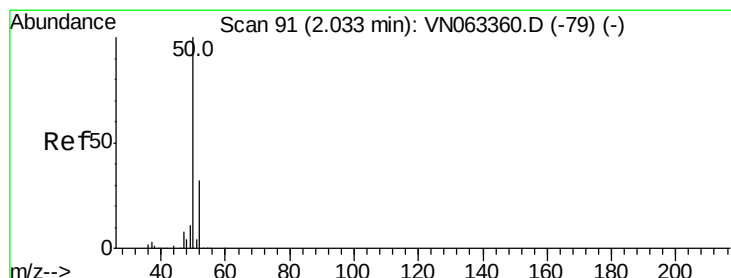
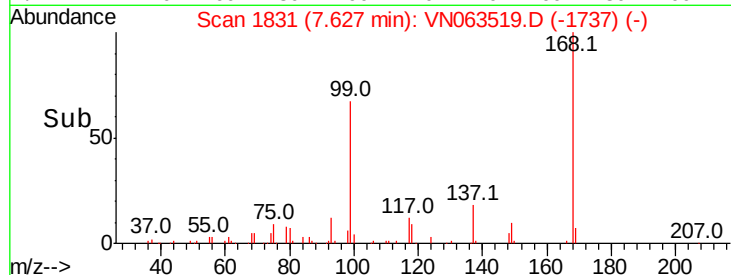
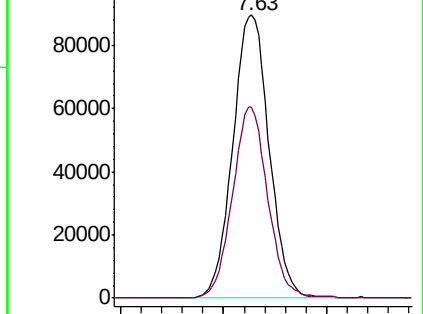
168 100

99 67.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.333 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063519.D

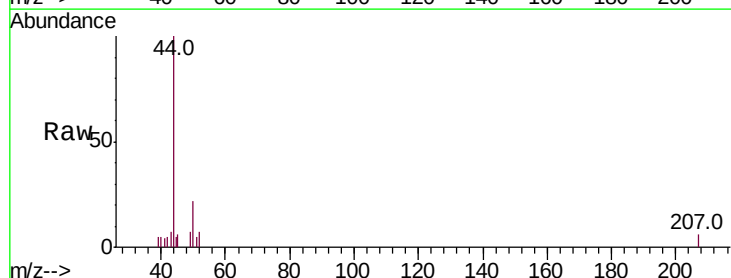
Acq: 22 Sep 2020 5:41

Tgt Ion: 50 Resp: 1095

Ion Ratio Lower Upper

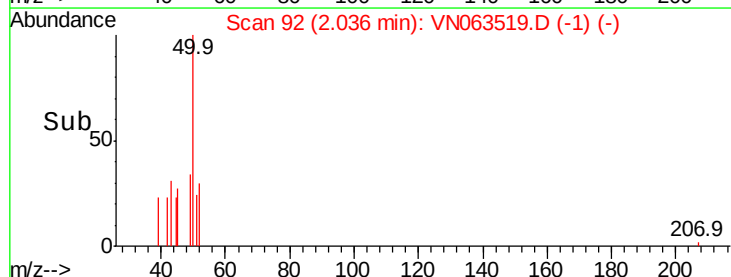
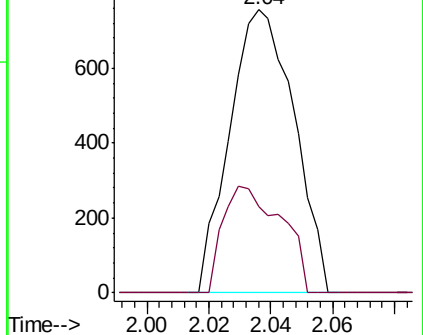
50 100

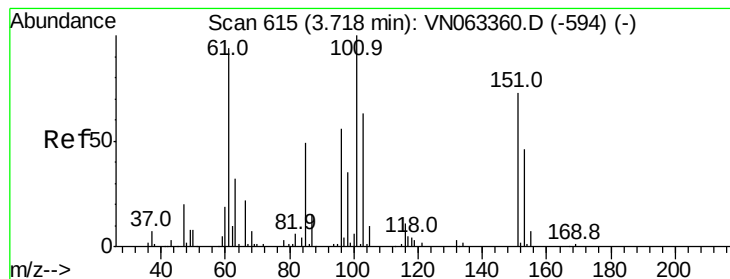
52 30.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.949 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915

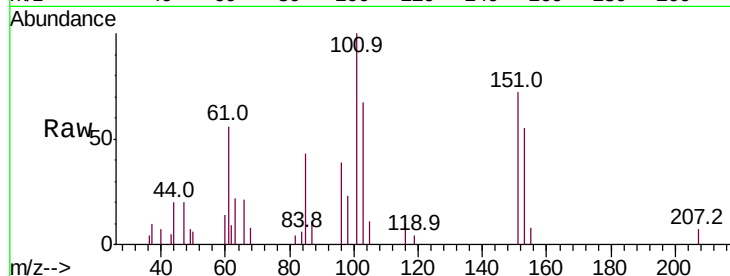
Tot Ion:101 Resp: 12101

Ion Ratio Lower Upper

101 100

85 46.7 37.7 56.5

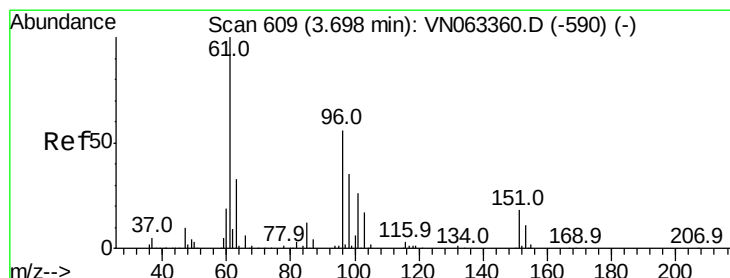
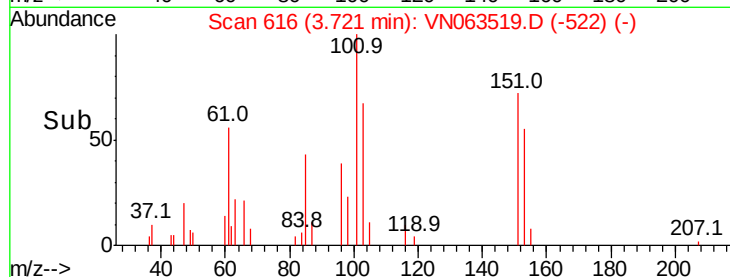
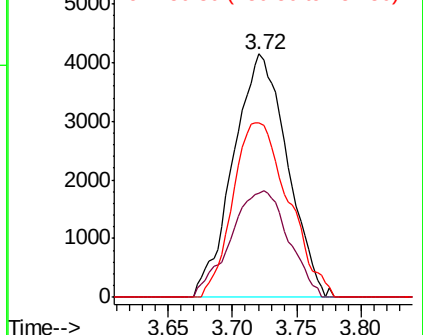
151 73.8 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 3.257 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

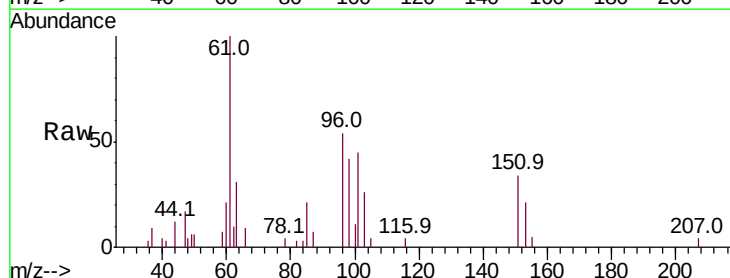
Tgt Ion: 96 Resp: 8067

Ion Ratio Lower Upper

96 100

61 183.5 143.4 215.2

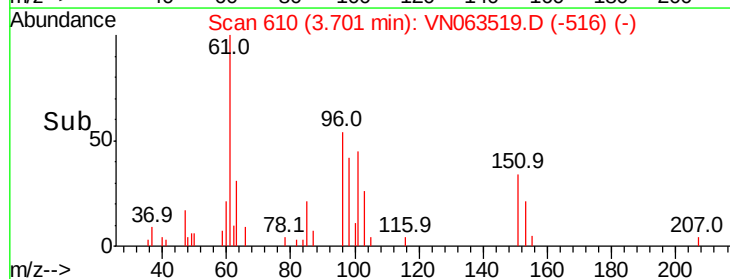
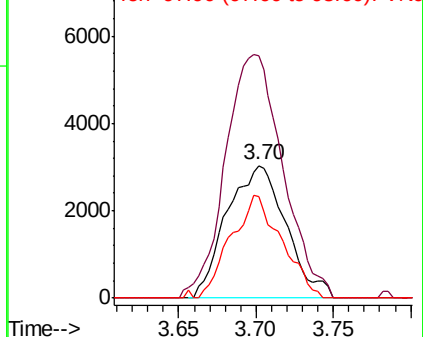
98 77.1 50.6 76.0#

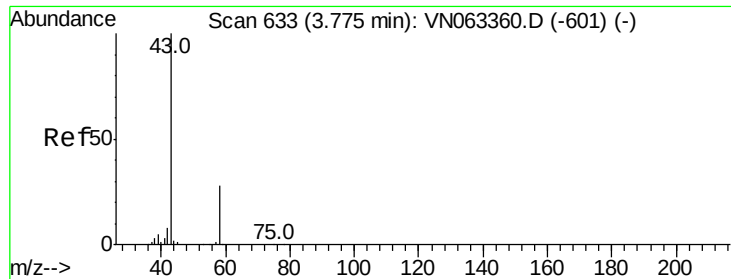


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#16

Acetone

Concen: 2.292 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

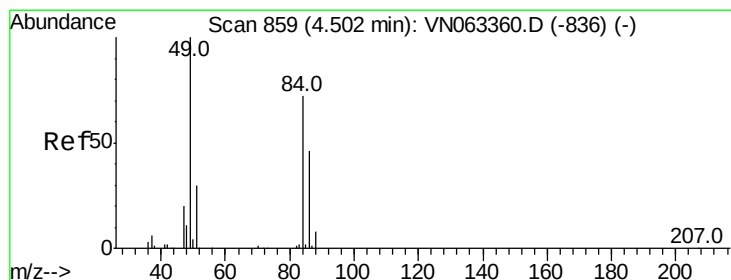
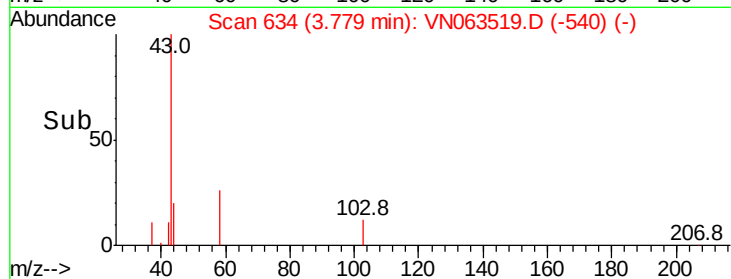
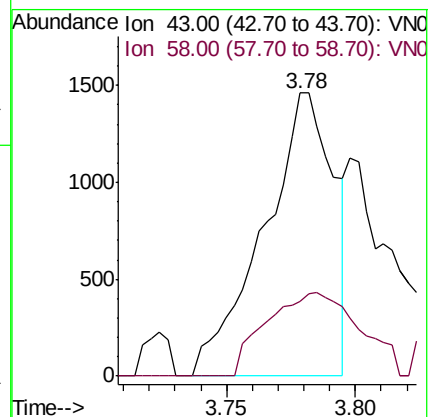
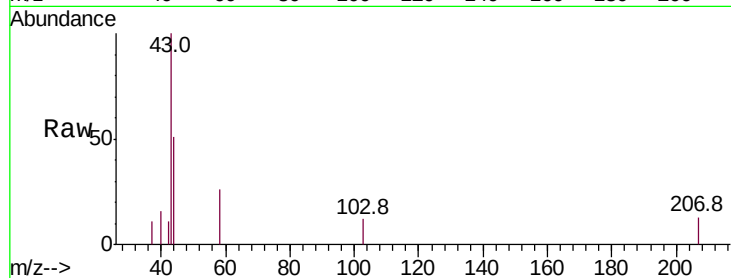
DUP01-20200915

Tot Ion: 43 Resp: 2752

Ion Ratio Lower Upper

43 100

58 26.3 22.3 33.5



#20

Methylene Chloride

Concen: 0.312 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Tgt Ion: 84 Resp: 949

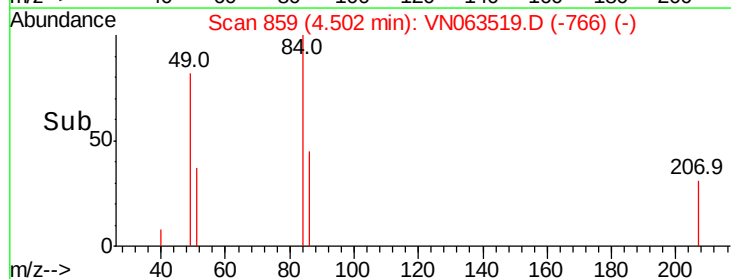
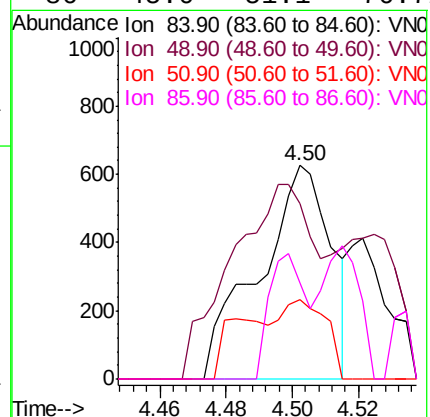
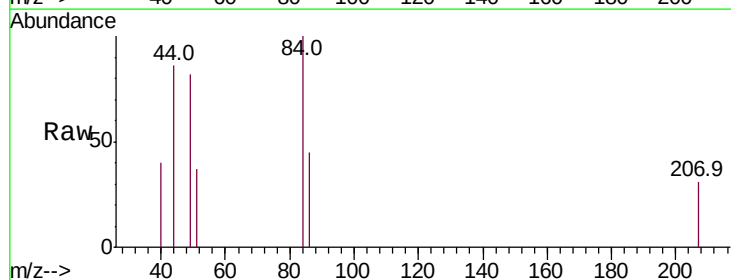
Ion Ratio Lower Upper

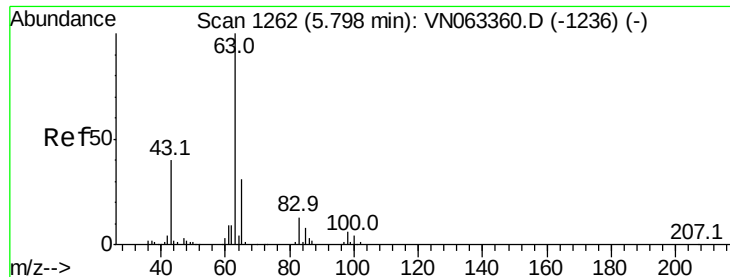
84 100

49 55.6 110.7 166.1#

51 37.1 32.9 49.3

86 45.0 51.1 76.7#

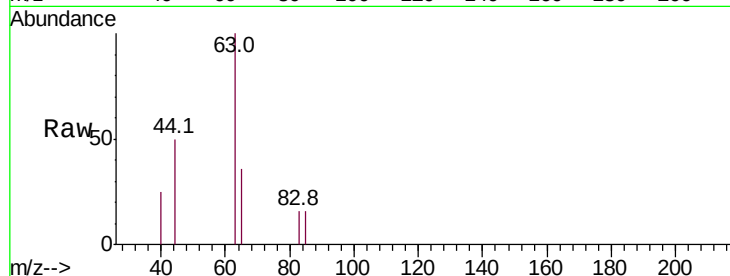




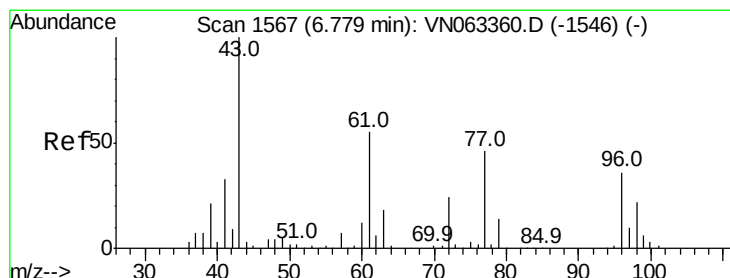
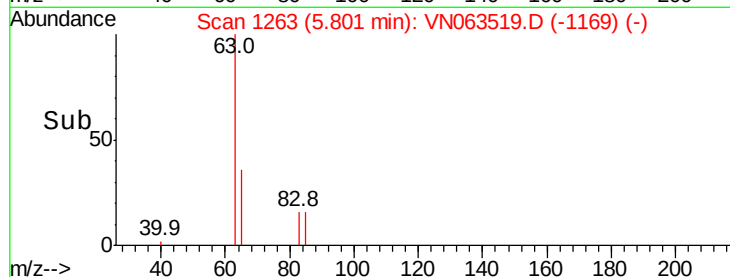
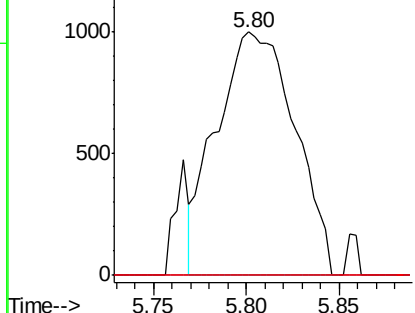
#24
 1,1-Dichloroethane
 Concen: 0.539 ug/l
 RT: 5.80 min Scan# 1263
 Delta R.T. 0.00 min
 Lab File: VN063519.D
 Acq: 22 Sep 2020 5:41

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20200915

Tot Ion: 63 Resp: 2938
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.8#
 100 0.0 2.1 6.3#

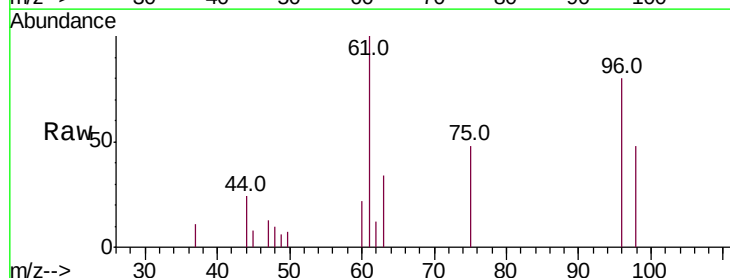


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

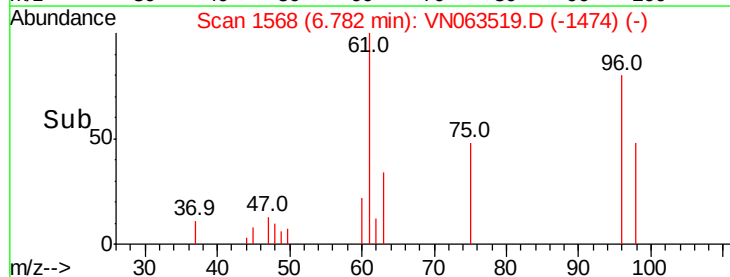
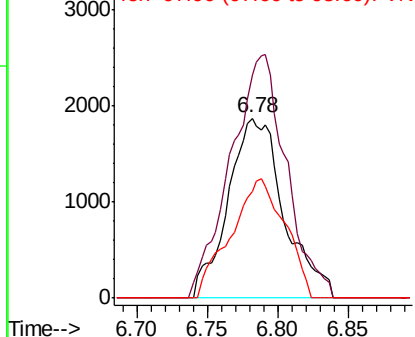


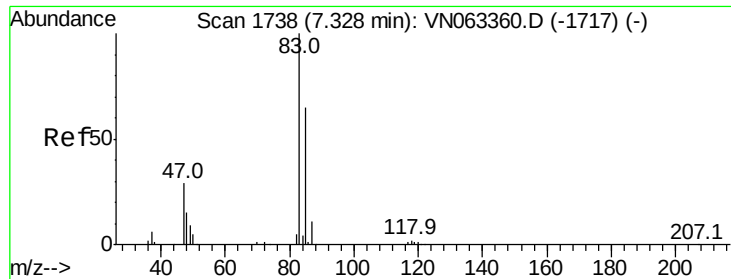
#27
 cis-1,2-Dichloroethene
 Concen: 1.667 ug/l
 RT: 6.78 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: VN063519.D
 Acq: 22 Sep 2020 5:41

Tgt Ion: 96 Resp: 5177
 Ion Ratio Lower Upper
 96 100
 61 134.8 0.0 319.6
 98 64.2 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

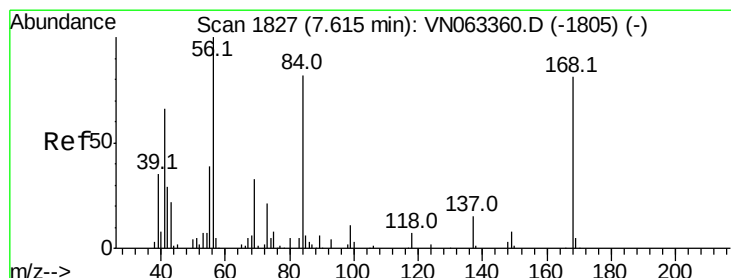
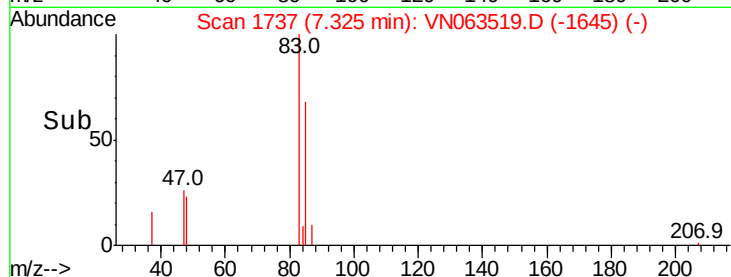
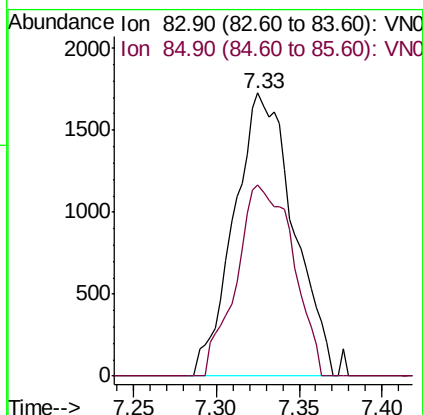
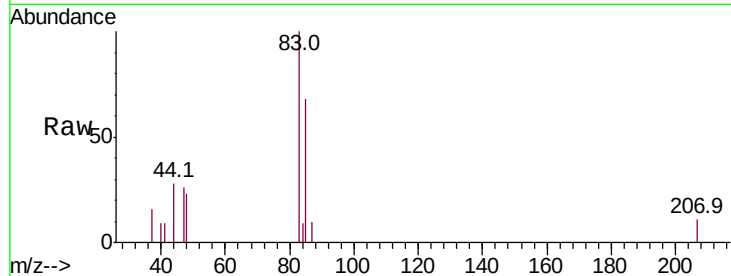




#30
Chloroform
Concen: 0.788 ug/l
RT: 7.33 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

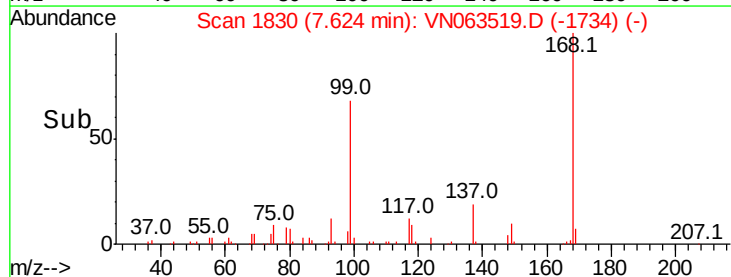
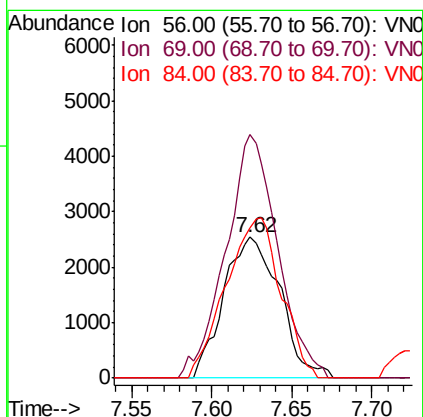
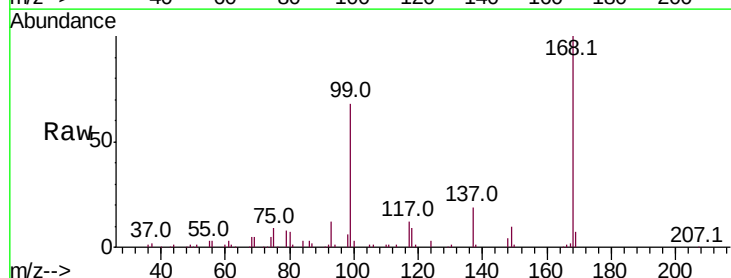
Instrument :
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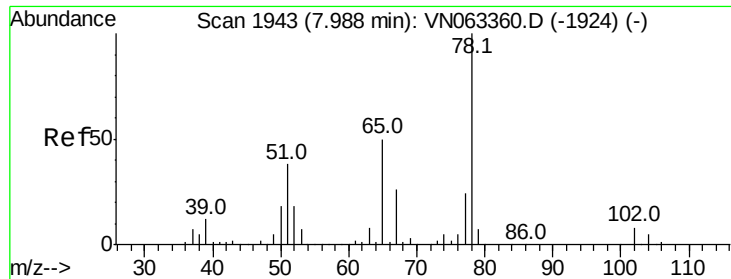
Tot Ion: 83 Resp: 4315
Ion Ratio Lower Upper
83 100
85 67.7 52.1 78.1



#31
Cyclohexane
Concen: 1.186 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

Tgt Ion: 56 Resp: 6119
Ion Ratio Lower Upper
56 100
69 172.8 26.1 39.1#
84 106.7 65.4 98.2#

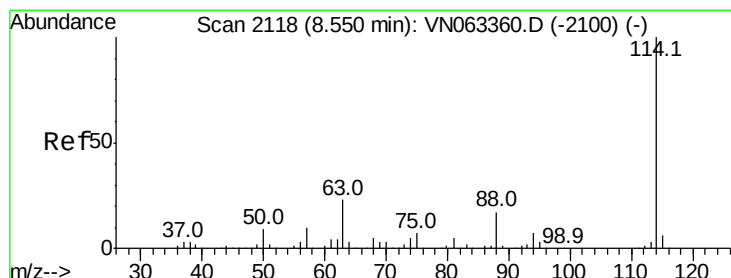
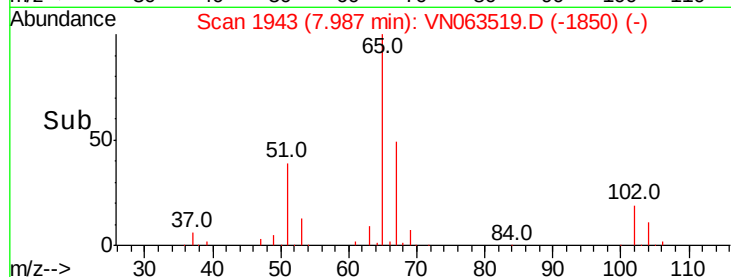
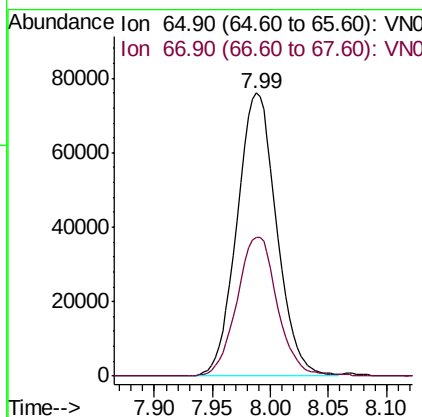
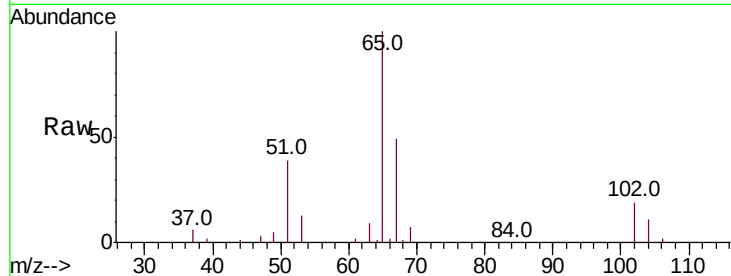




#33
 1,2-Dichloroethane-d4
 Concen: 48.432 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063519.D
 Acq: 22 Sep 2020 5:41

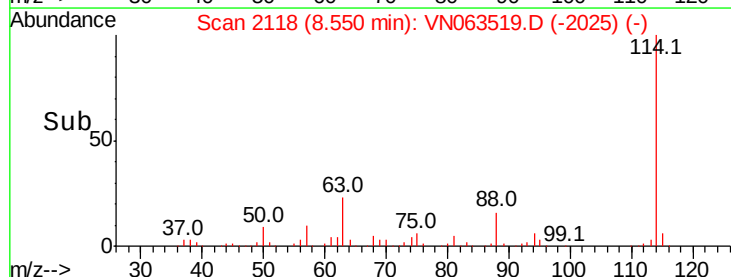
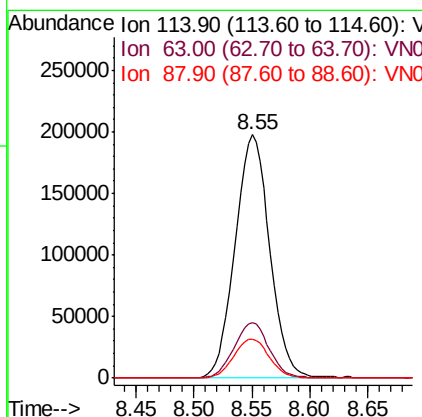
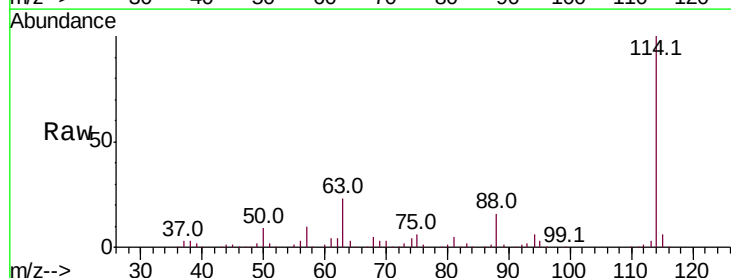
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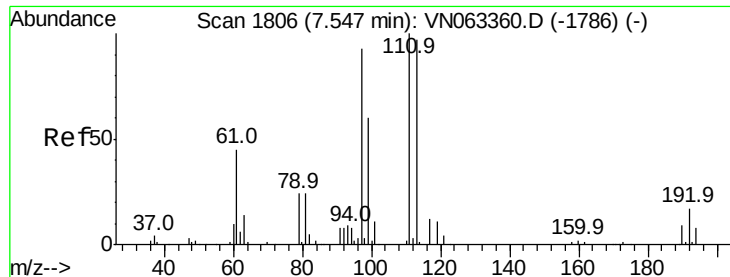
Tot Ion: 65 Resp: 180947
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063519.D
 Acq: 22 Sep 2020 5:41

Tgt Ion: 114 Resp: 409696
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.4
 88 16.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.161 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915

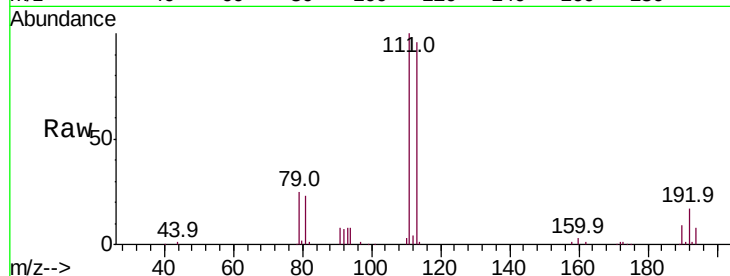
Tot Ion:113 Resp: 130923

Ion Ratio Lower Upper

113 100

111 105.2 82.9 124.3

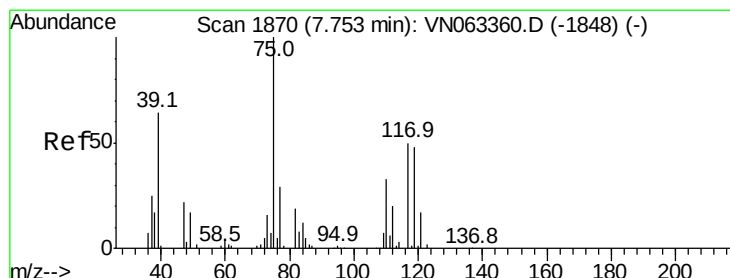
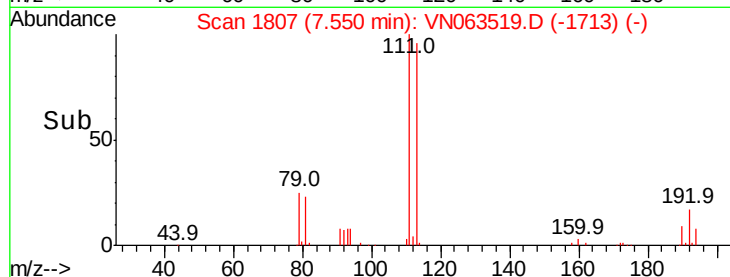
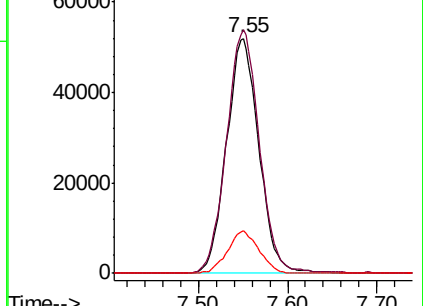
192 17.4 13.9 20.9



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: 4.601 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

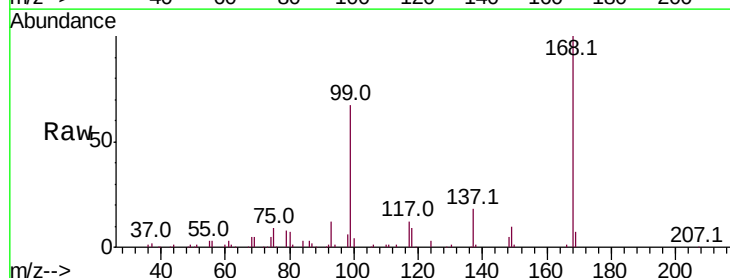
Tgt Ion: 75 Resp: 20084

Ion Ratio Lower Upper

75 100

110 9.3 16.5 49.5#

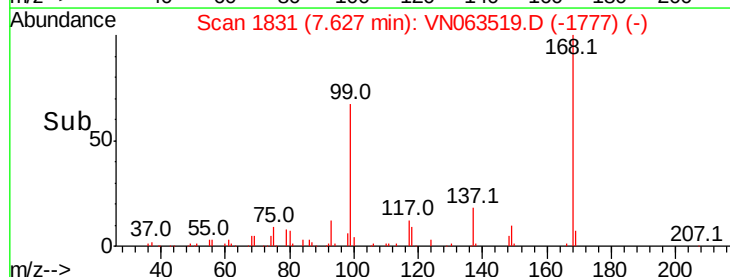
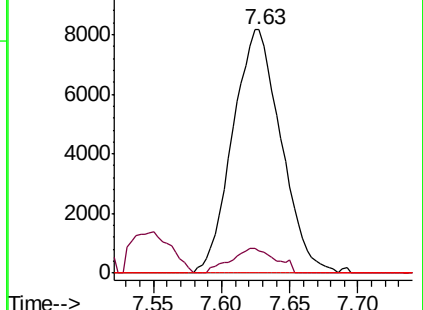
77 0.0 24.6 36.8#

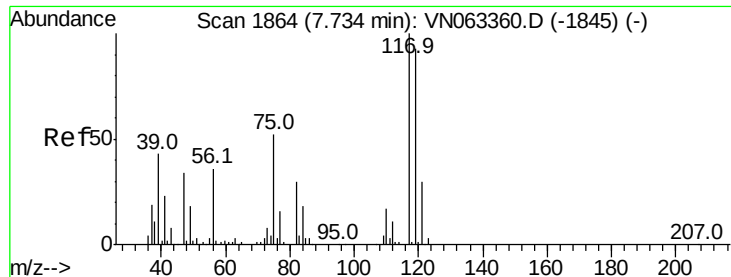


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

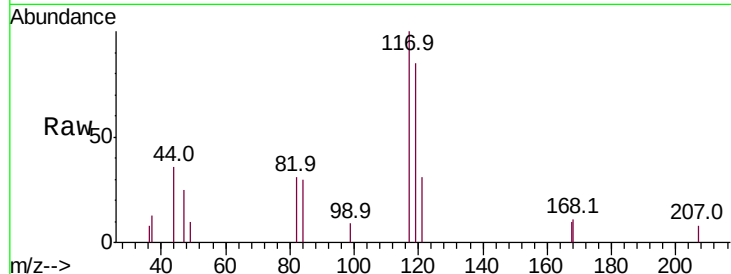




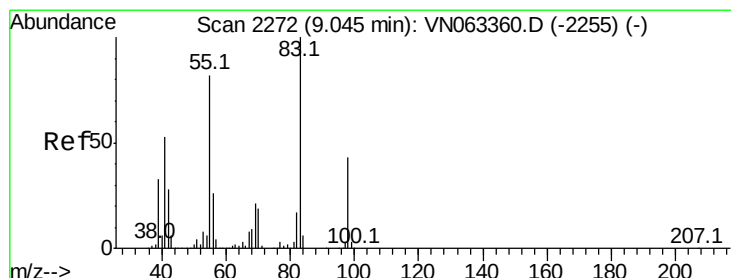
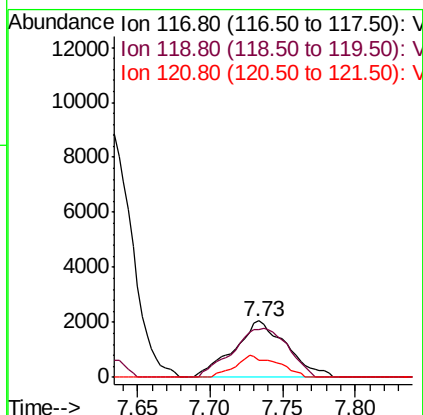
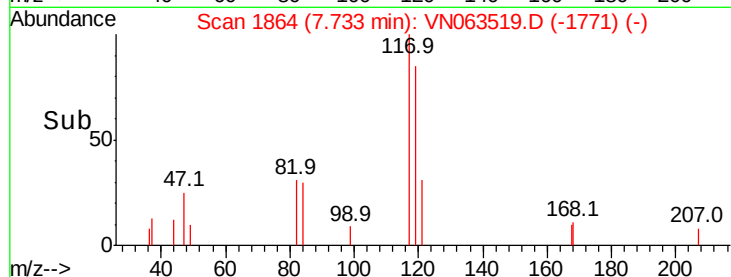
#38
Carbon Tetrachloride
Concen: 1.171 ug/l
RT: 7.73 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200915

Tot Ion:117 Resp: 5219
Ion Ratio Lower Upper
117 100
119 85.1 74.5 111.7
121 30.5 24.1 36.1

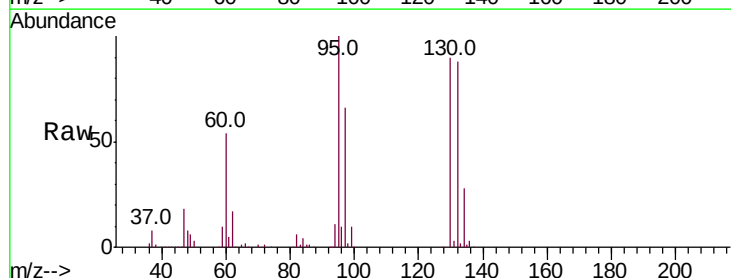


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

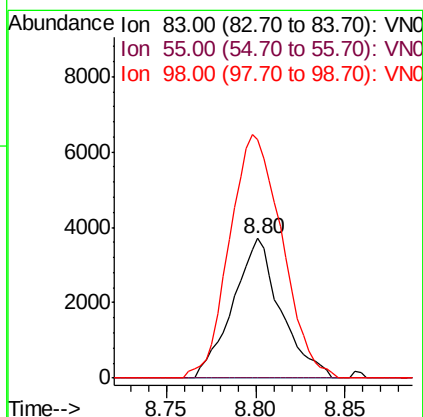
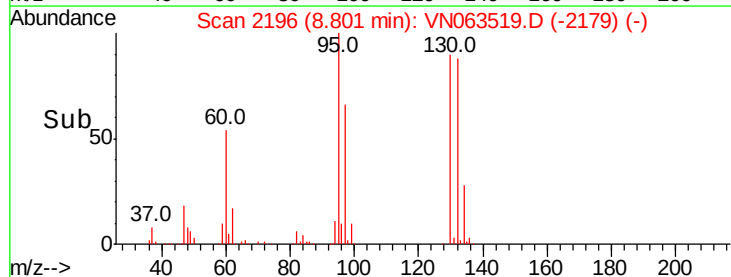


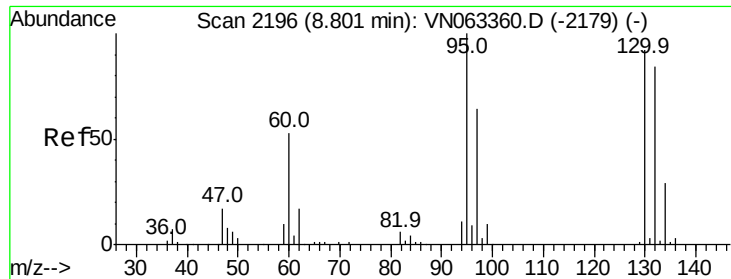
#39
Methylcyclohexane
Concen: 1.466 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

Tgt Ion: 83 Resp: 6945
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 170.3 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: 161.212 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

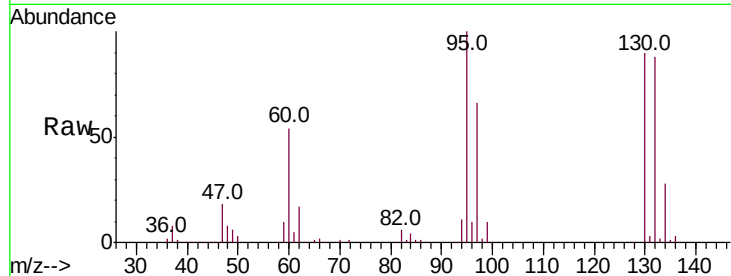
DUP01-20200915

Tot Ion:130 Resp: 487189

Ion Ratio Lower Upper

130 100

95 111.2 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

8.80

250000

200000

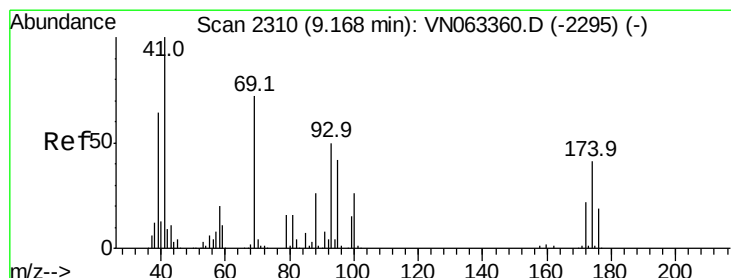
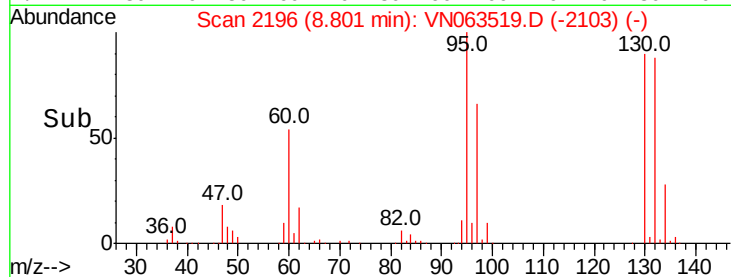
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 3.481 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

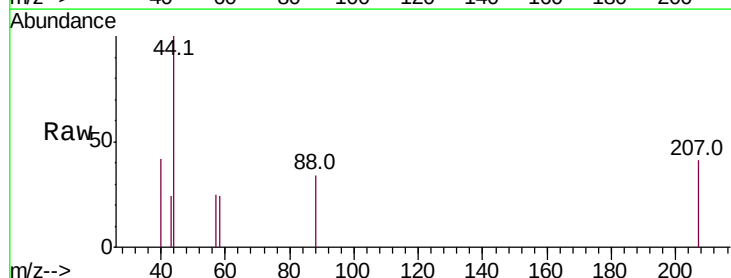
Tgt Ion: 88 Resp: 188

Ion Ratio Lower Upper

88 100

43 279.3 32.6 49.0#

58 54.8 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)

500

400

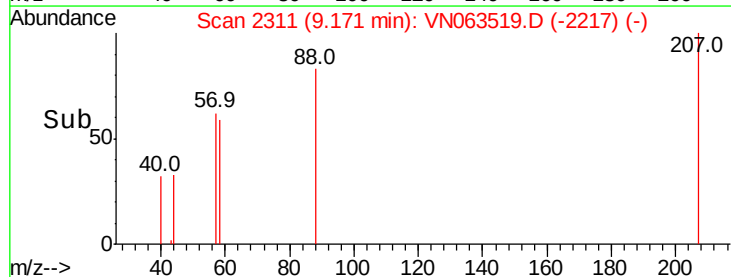
300

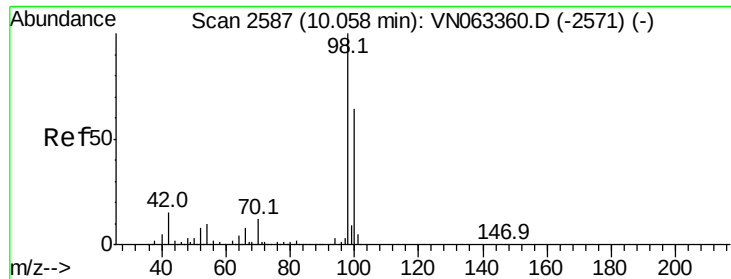
200

100

0

Time-->





#50

Toluene-d8

Concen: 48.342 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

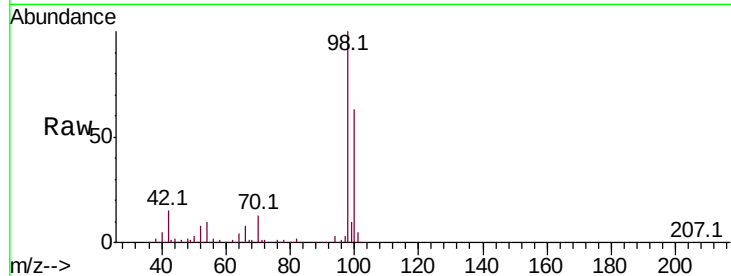
DUP01-20200915

Tot Ion: 98 Resp: 515556

Ion Ratio Lower Upper

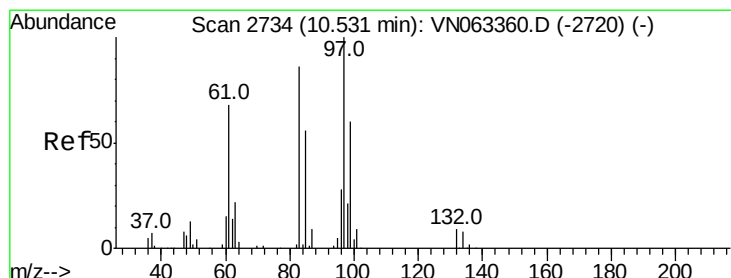
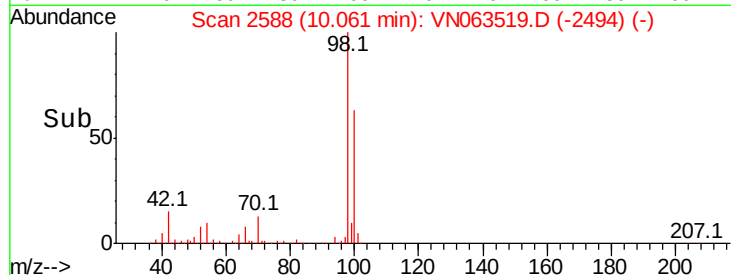
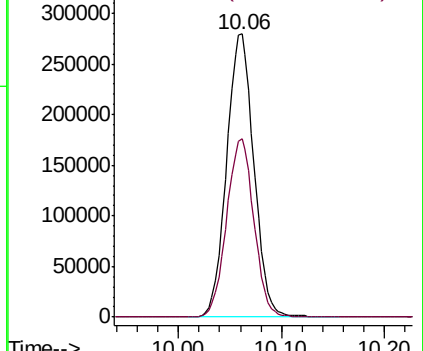
98 100

100 63.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#55

1,1,2-Trichloroethane

Concen: 0.928 ug/l

RT: 10.53 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Tgt Ion: 97 Resp: 2762

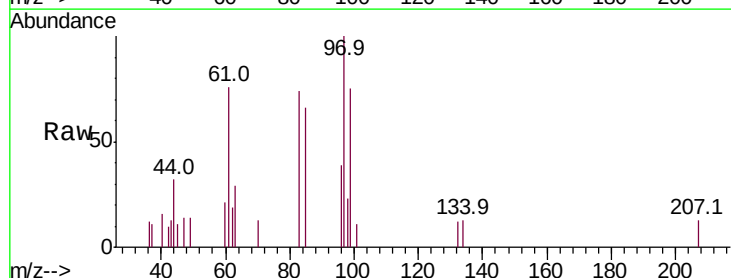
Ion Ratio Lower Upper

97 100

83 74.5 68.9 103.3

85 65.8 44.8 67.2

99 75.1 47.8 71.8#

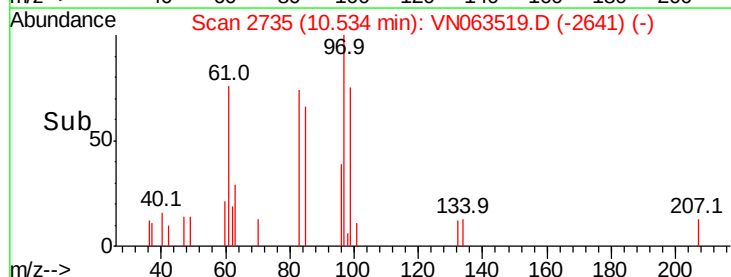
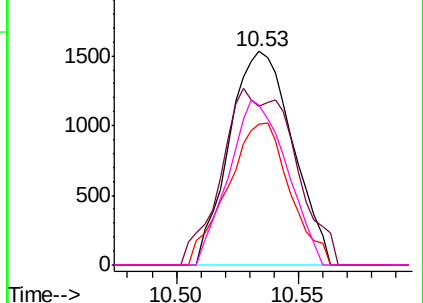


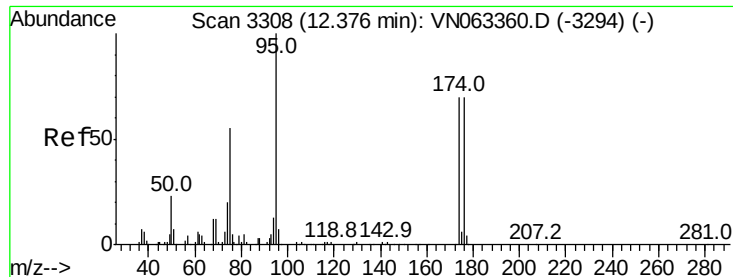
Abundance Ion 96.90 (96.60 to 97.60): VN0

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

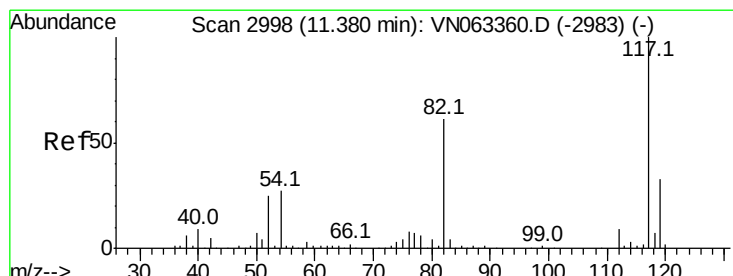
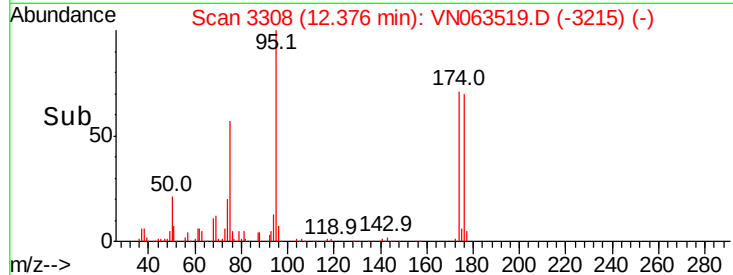
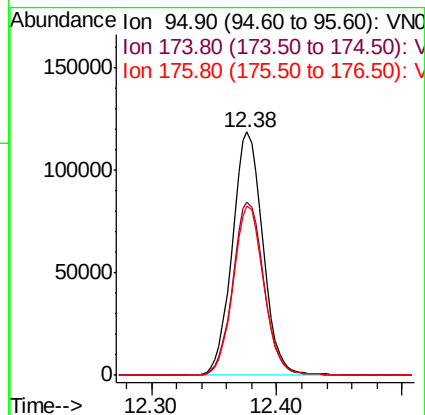
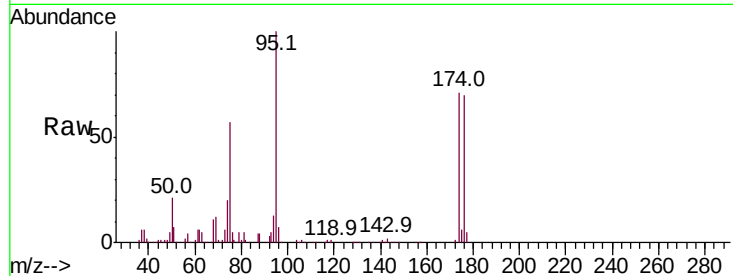




#62
4-Bromofluorobenzene
Concen: 51.472 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

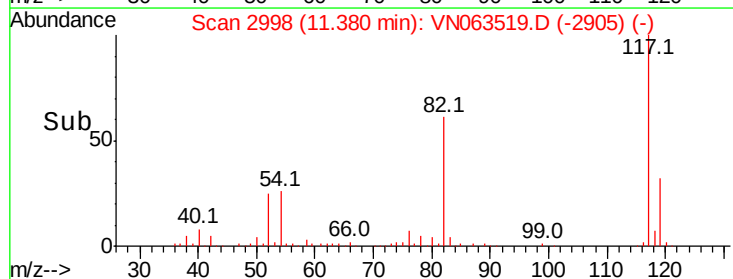
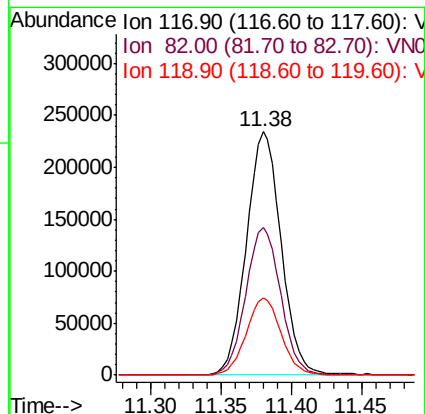
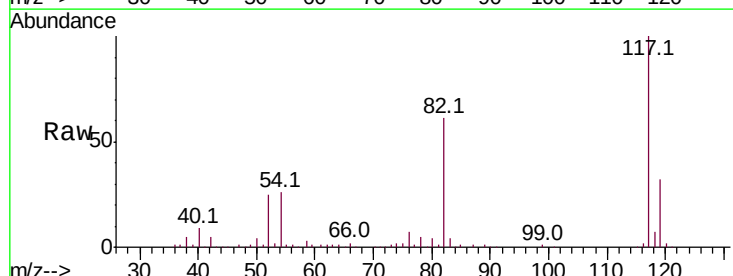
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20200915

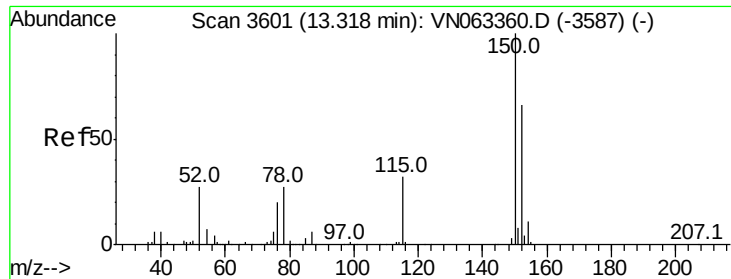
Tot Ion	95	Resp	201230
Ion Ratio	100		
Lower			
Upper			
174	72.6	0.0	140.8
176	70.0	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063519.D
Acq: 22 Sep 2020 5:41

Tgt Ion	117	Resp	404176
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	60.5	49.2	73.8
119	31.5	26.2	39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915

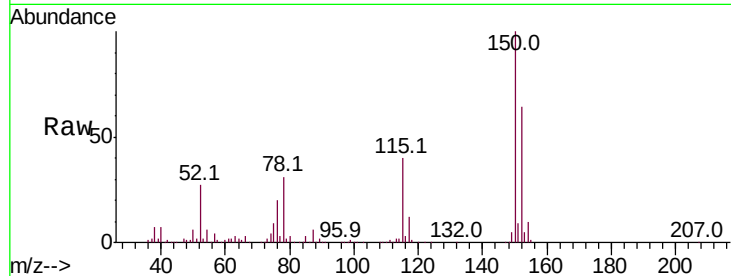
Tot Ion:152 Resp: 169504

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

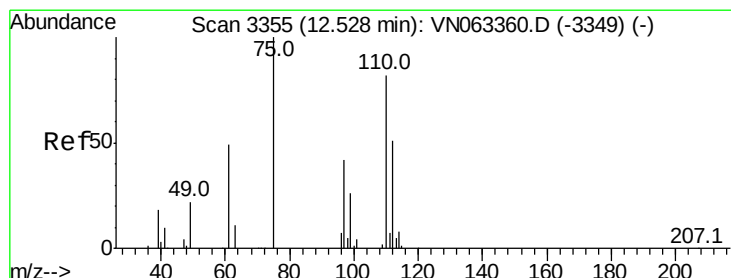
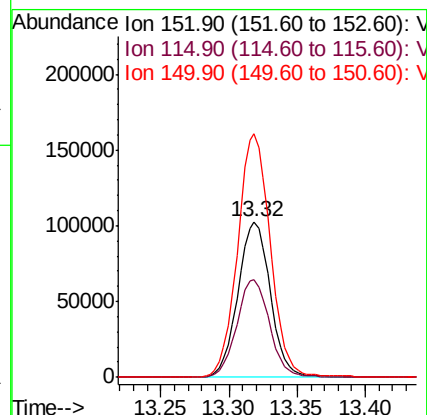
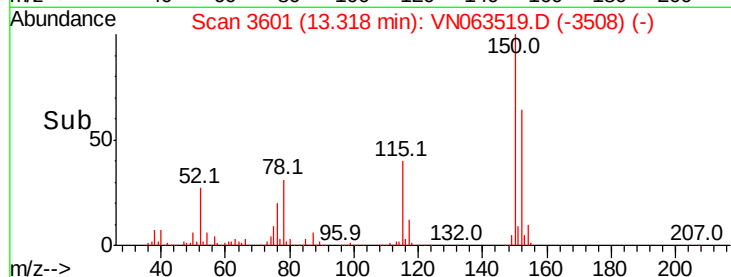
150 158.4 0.0 343.4



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: 27.349 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063519.D

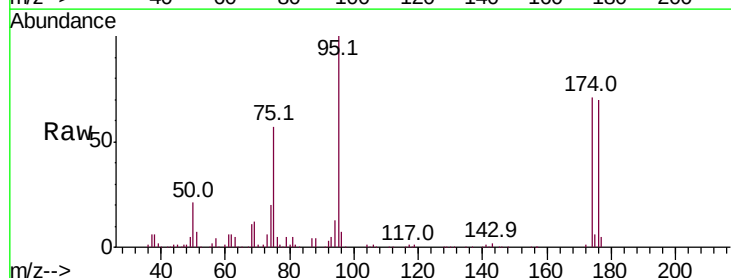
Acq: 22 Sep 2020 5:41

Tgt Ion: 75 Resp: 114743

Ion Ratio Lower Upper

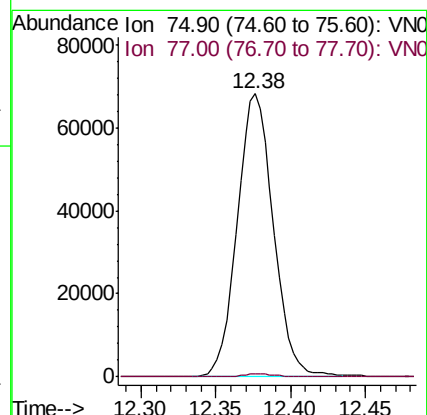
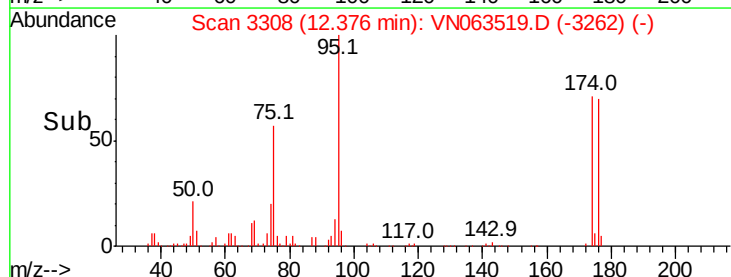
75 100

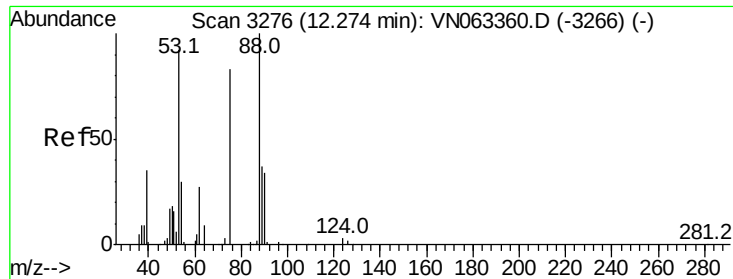
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.981 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20200915

Tot Ion: 75 Resp: 114743

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

