

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063511.D
 Acq On : 22 Sep 2020 2:30
 Operator : JC/MD
 Sample : L4082-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D1-20200915

Quant Time: Sep 22 05:00:03 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	230025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	430894	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	435159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179429	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	188312	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
35) Dibromofluoromethane	7.55	113	136253	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
50) Toluene-d8	10.06	98	557610	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.38	95	216885	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	

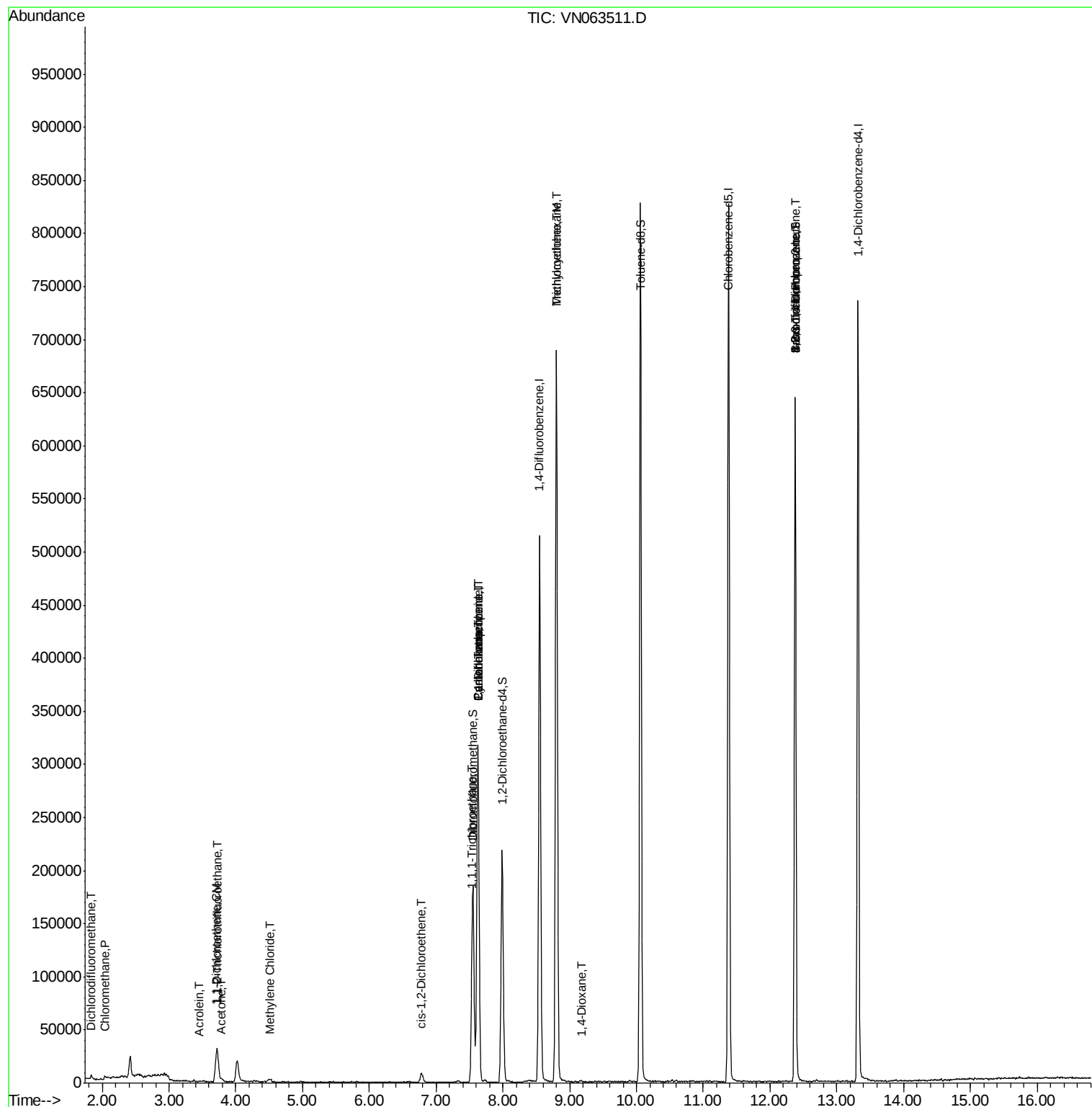
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	1744	0.669	ug/l	79
3) Chloromethane	2.04	50	1826	0.530	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	17929	6.996	ug/l	98
12) 1,1-Dichloroethene	3.70	96	3371	1.299	ug/l	96
13) Acrolein	3.44	56	62	0.308	ug/l #	13
16) Acetone	3.79	43	4437	3.526	ug/l #	89
20) Methylene Chloride	4.51	84	1071	0.336	ug/l #	45
27) cis-1,2-Dichloroethene	6.78	96	4933	1.515	ug/l	75
31) Cyclohexane	7.63	56	6588	1.218	ug/l #	23
32) 1,1,1-Trichloroethane	7.53	97	2918	0.572	ug/l #	40
36) 1,1-Dichloropropene	7.62	75	22154	4.826	ug/l #	52
38) Carbon Tetrachloride	7.62	117	24970	5.329	ug/l #	17
39) Methylcyclohexane	8.79	83	3130	0.628	ug/l #	1
44) Trichloroethene	8.80	130	227413	71.549	ug/l	99
49) 1,4-Dioxane	9.17	88	889	15.651	ug/l #	79
71) Bromoform	12.37	173	1503	0.596	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	118993	26.794	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118993	73.458	ug/l #	7

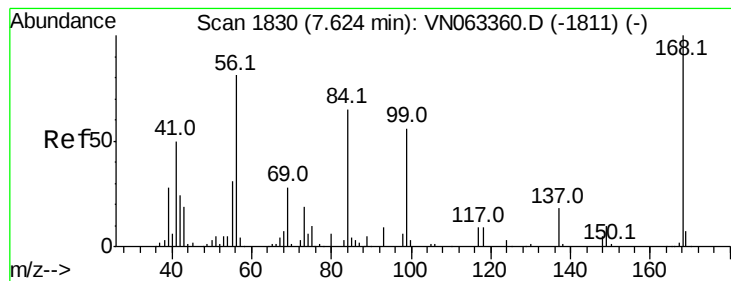
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

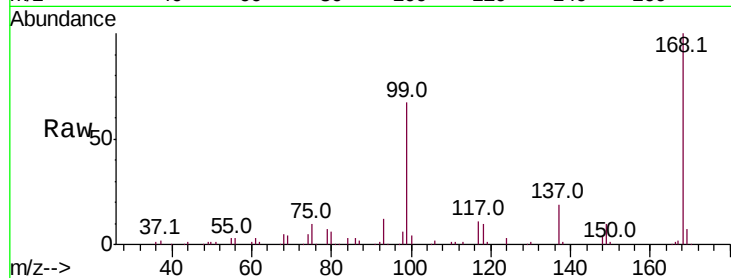
RE105D1-20200915

Tot Ion:168 Resp: 230025

Ion Ratio Lower Upper

168 100

99 66.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

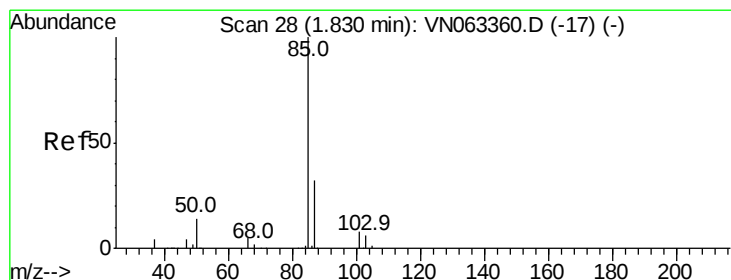
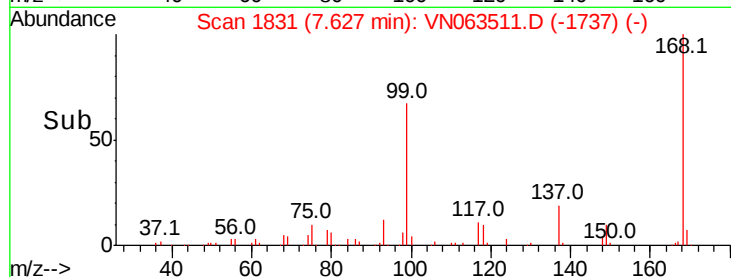
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.669 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063511.D

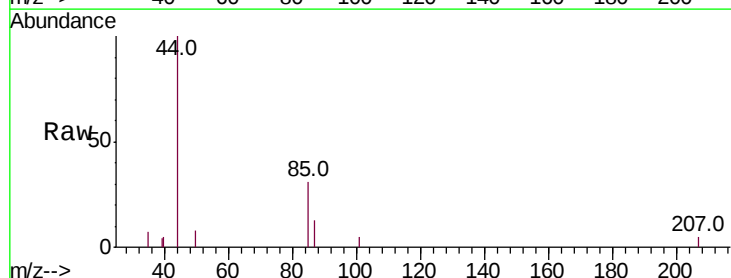
Acq: 22 Sep 2020 2:30

Tgt Ion: 85 Resp: 1744

Ion Ratio Lower Upper

85 100

87 43.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

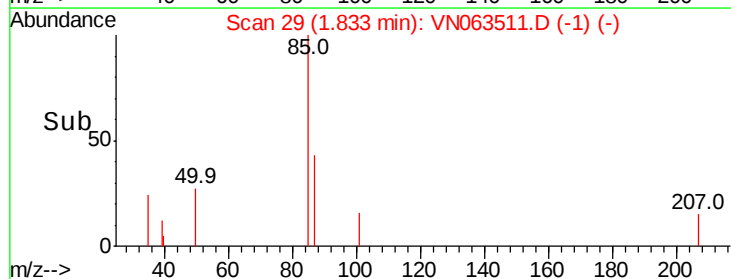
1500

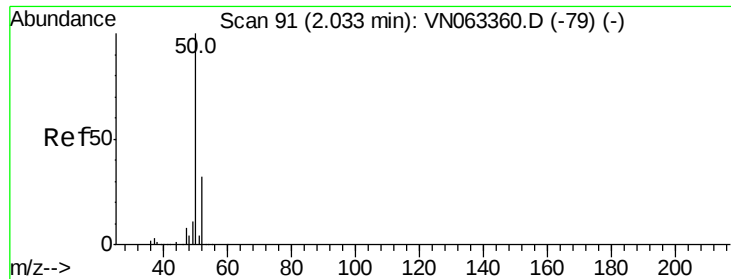
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.530 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

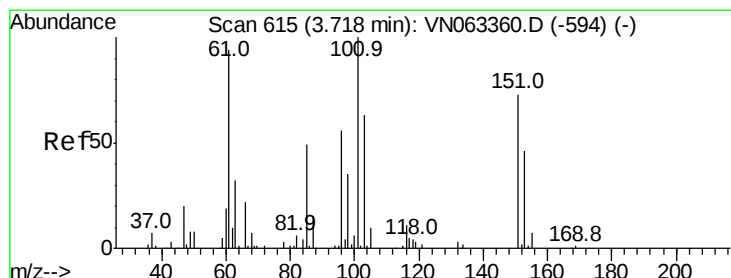
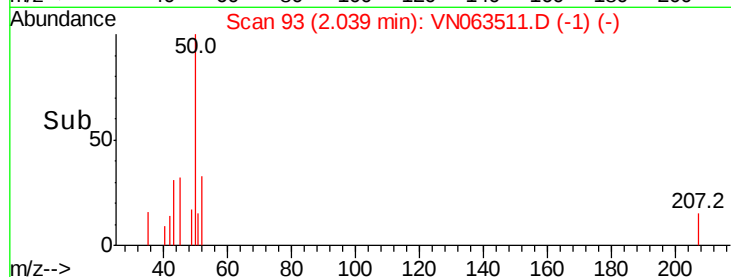
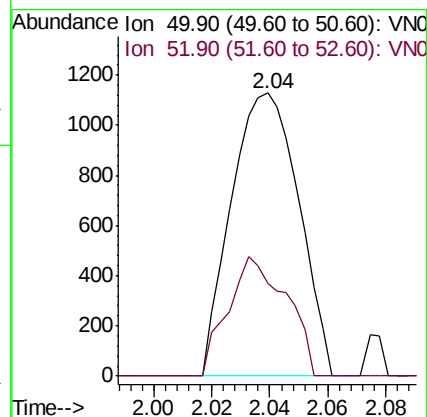
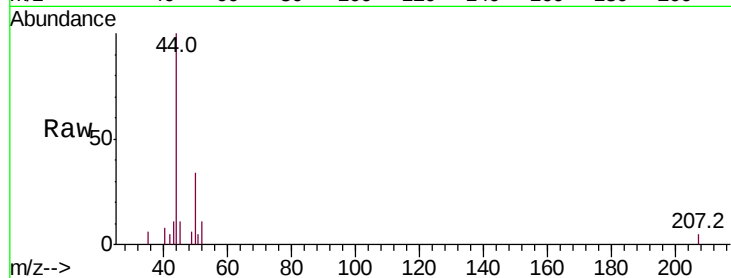
RE105D1-20200915

Tot Ion: 50 Resp: 1826

Ion Ratio Lower Upper

50 100

52 32.6 25.9 38.9



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.996 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

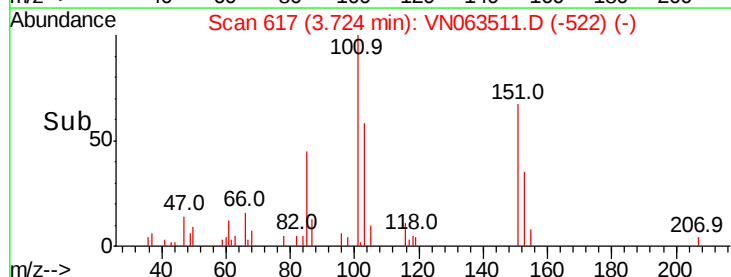
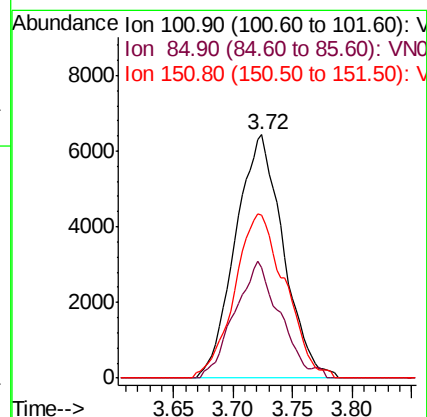
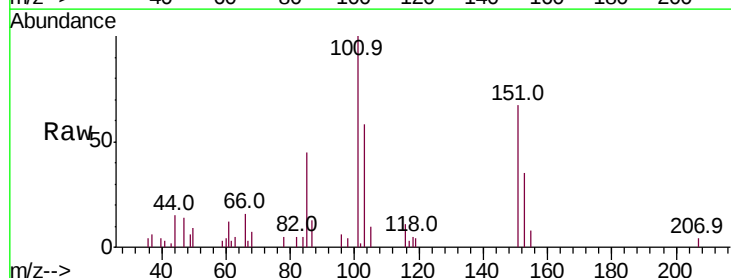
Tgt Ion: 101 Resp: 17929

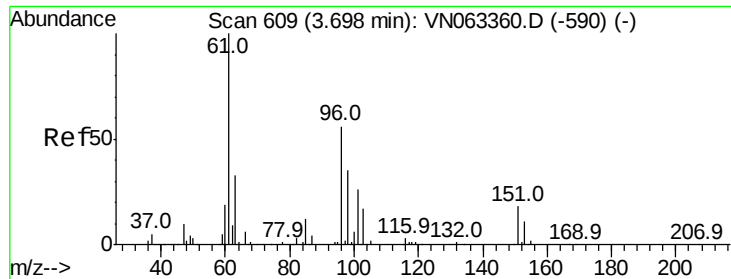
Ion Ratio Lower Upper

101 100

85 44.6 37.7 56.5

151 71.5 57.7 86.5





#12

1,1-Dichloroethene

Concen: 1.299 ug/l

RT: 3.70 min Scan# 611

Delta R.T. 0.01 min

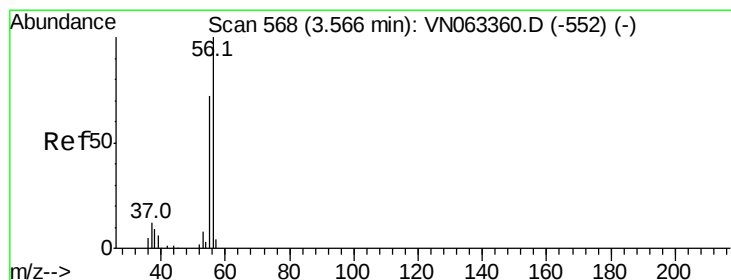
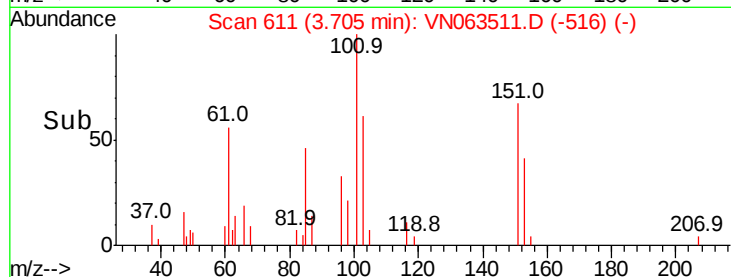
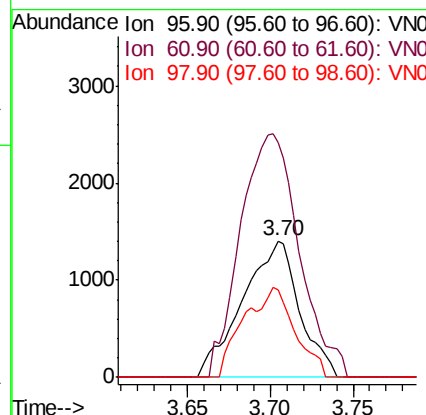
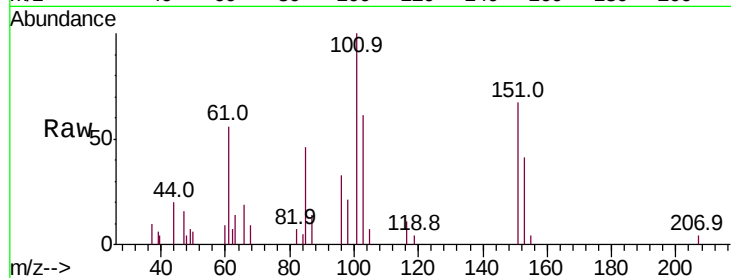
Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200915

Tot Ion: 96 Resp: 3371

Ion	Ratio	Lower	Upper
96	100		
61	171.6	143.4	215.2
98	63.8	50.6	76.0



#13

Acrolein

Concen: 0.308 ug/l

RT: 3.44 min Scan# 529

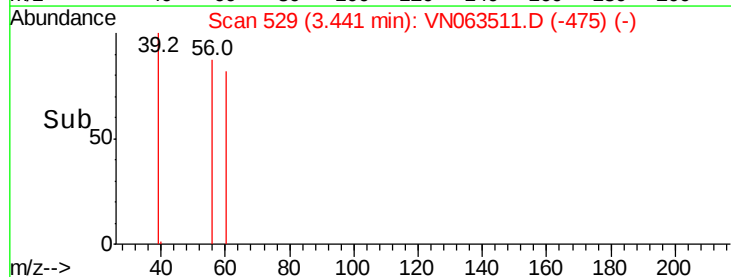
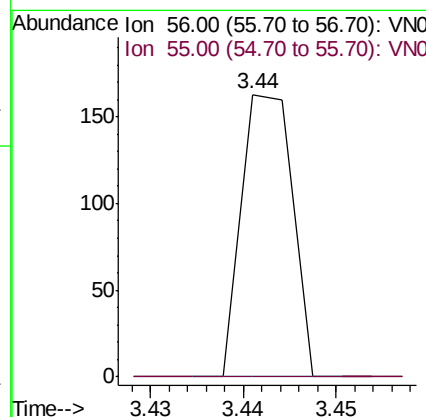
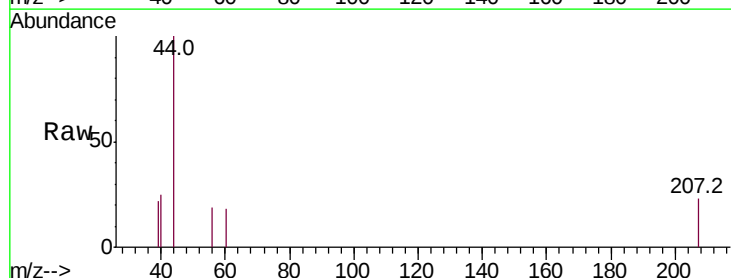
Delta R.T. -0.13 min

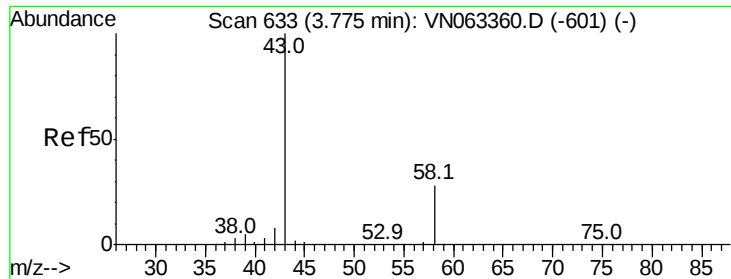
Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Tgt Ion: 56 Resp: 62

Ion	Ratio	Lower	Upper
56	100		
55	0.0	58.2	87.2#





#16

Acetone

Concen: 3.526 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

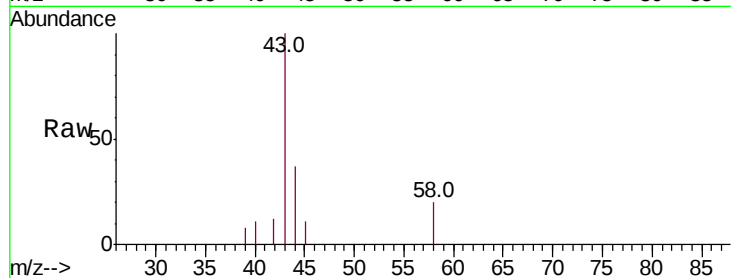
RE105D1-20200915

Tot Ion: 43 Resp: 4437

Ion Ratio Lower Upper

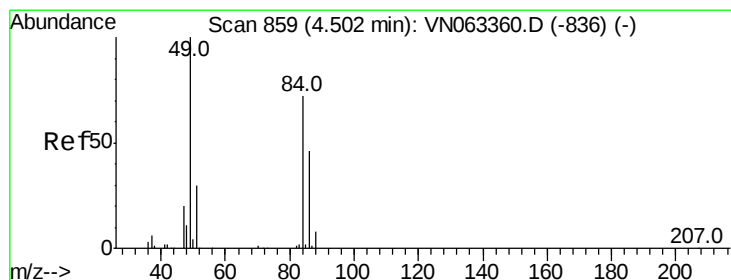
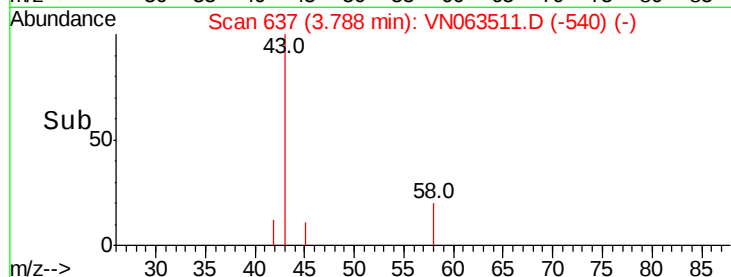
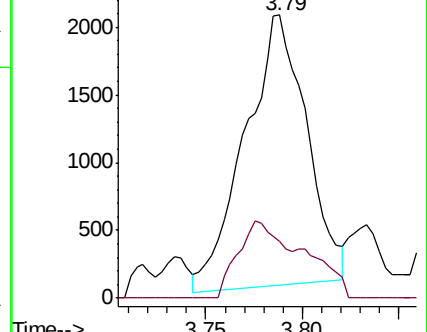
43 100

58 22.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)



#20

Methylene Chloride

Concen: 0.336 ug/l

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Tgt Ion: 84 Resp: 1071

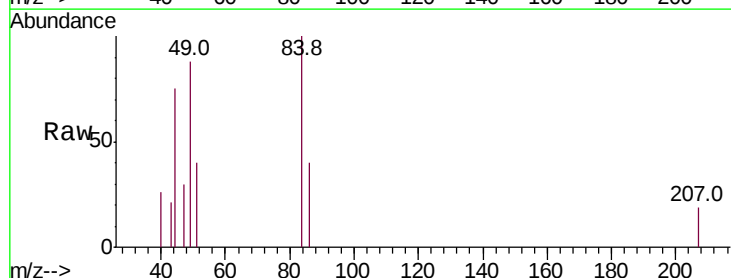
Ion Ratio Lower Upper

84 100

49 54.5 110.7 166.1#

51 39.8 32.9 49.3

86 18.6 51.1 76.7#

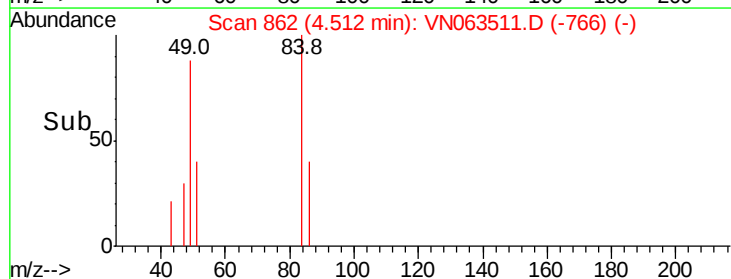
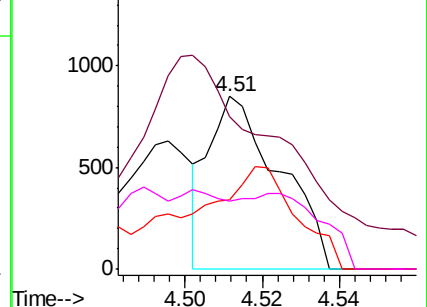


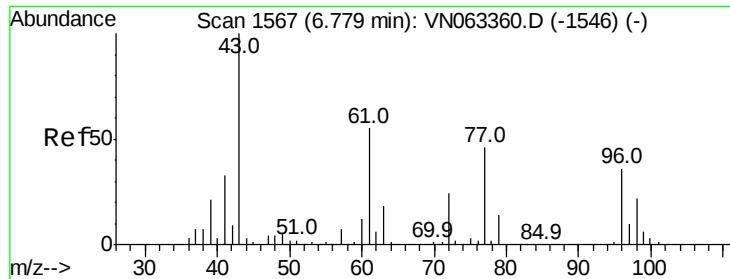
Abundance Ion 83.90 (83.60 to 84.60): VN063360.D (-836) (-)

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) (-)





#27

cis-1,2-Dichloroethene

Concen: 1.515 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

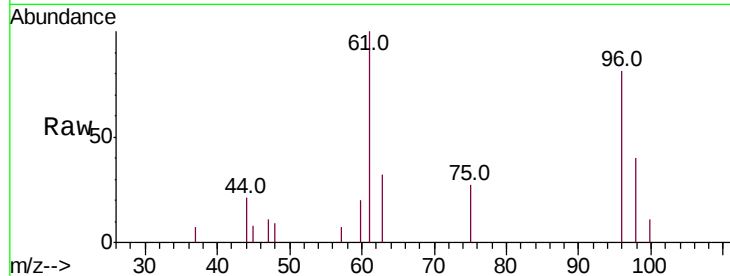
Tot Ion: 96 Resp: 4933

Ion Ratio Lower Upper

96 100

61 131.1 0.0 319.6

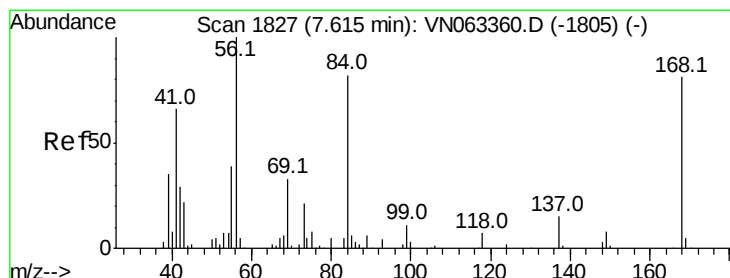
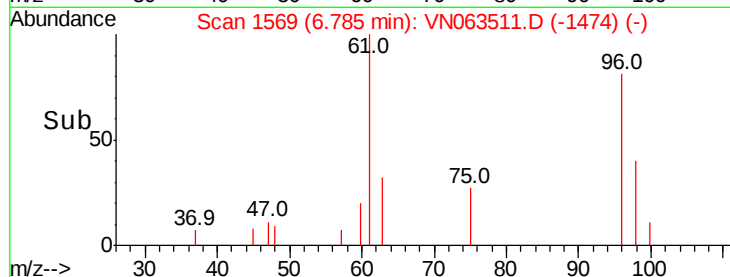
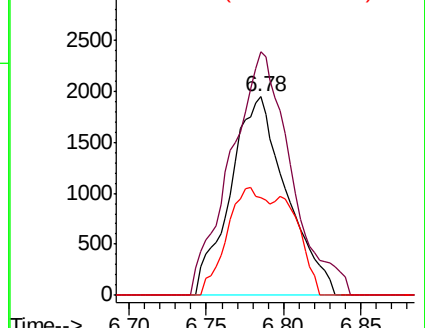
98 39.1 0.0 127.8



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: 1.218 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

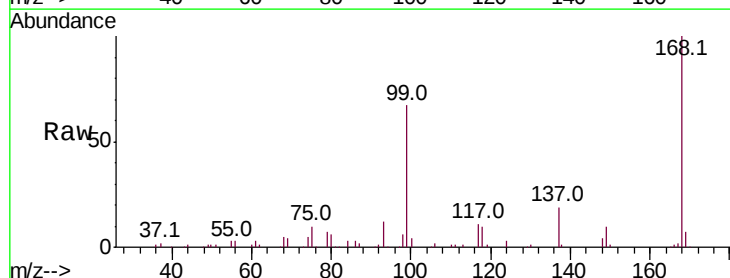
Tgt Ion: 56 Resp: 6588

Ion Ratio Lower Upper

56 100

69 159.3 26.1 39.1#

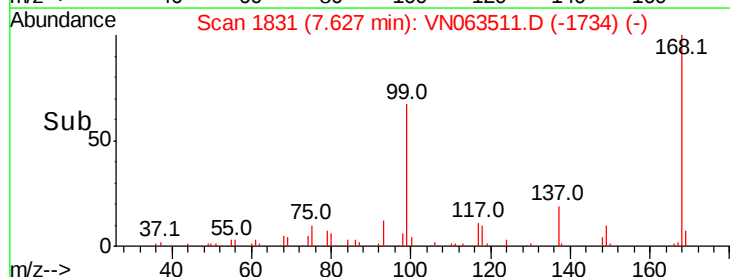
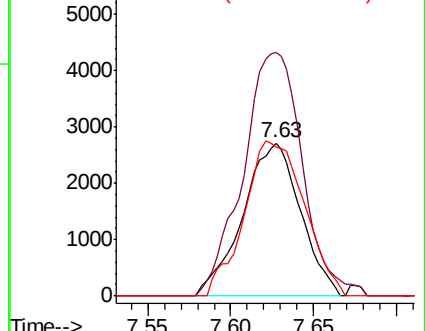
84 97.4 65.4 98.2

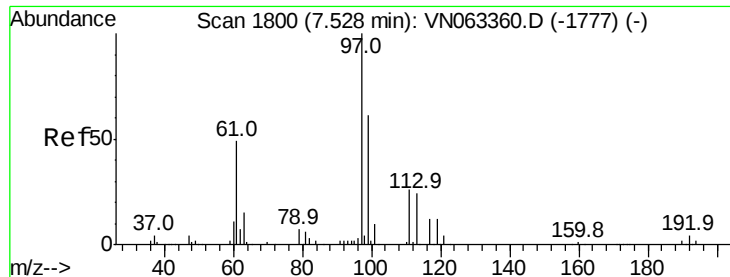


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

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

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





#32

1,1,1-Trichloroethane

Concen: 0.572 ug/l

RT: 7.53 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

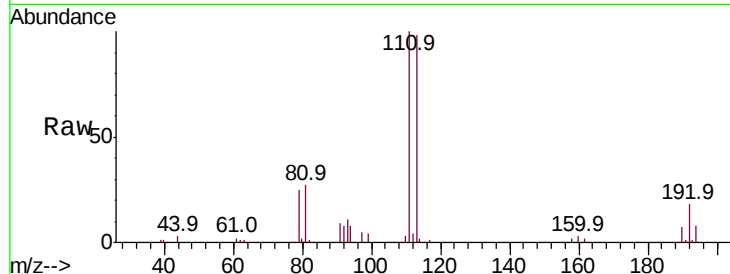
Tot Ion: 97 Resp: 2918

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0#

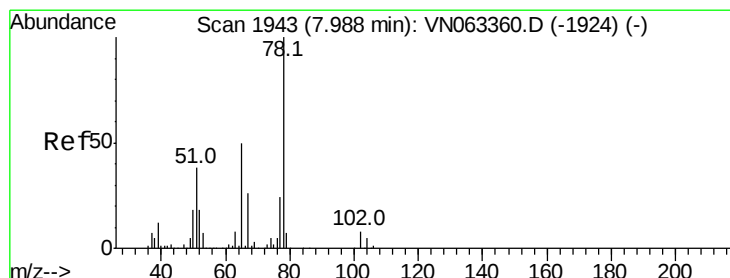
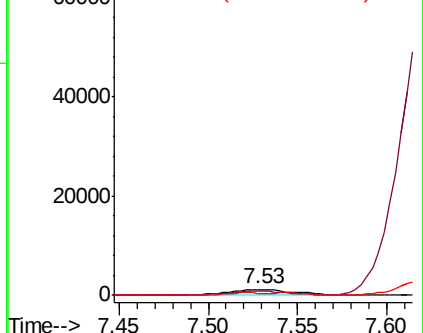
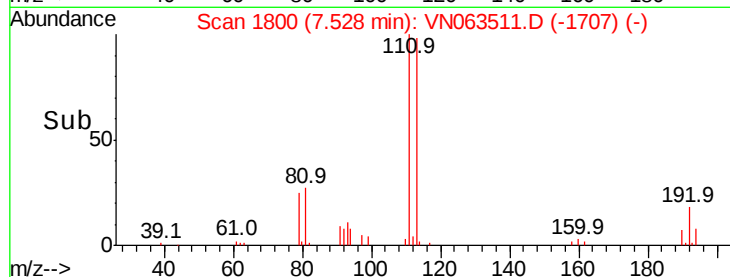
61 27.4 39.2 58.8#



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.092 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063511.D

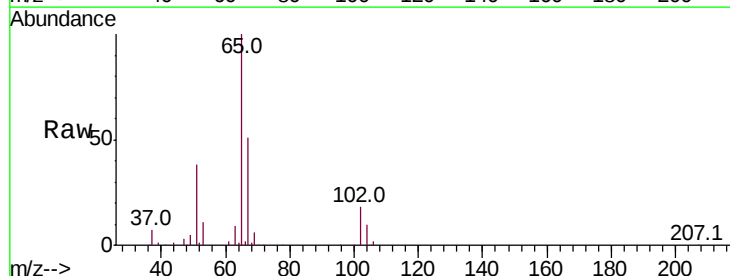
Acq: 22 Sep 2020 2:30

Tgt Ion: 65 Resp: 188312

Ion Ratio Lower Upper

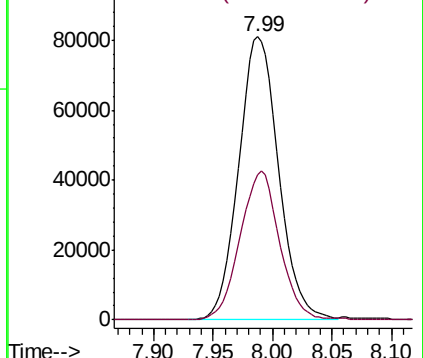
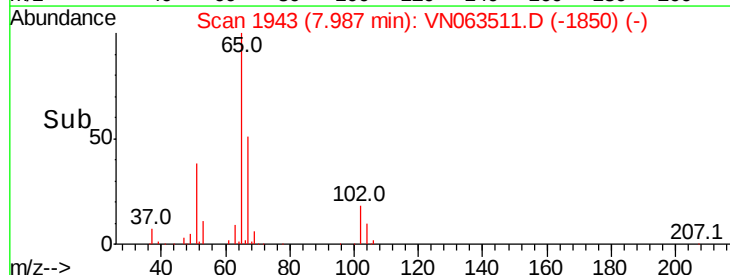
65 100

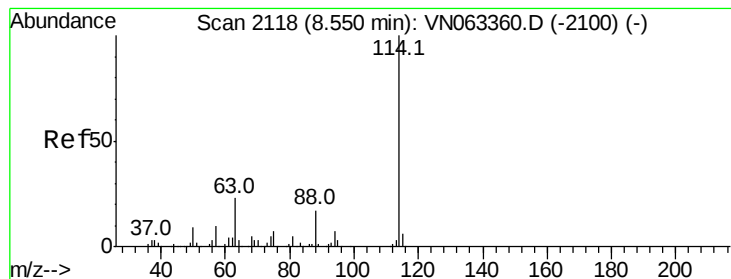
67 52.3 0.0 104.2



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: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

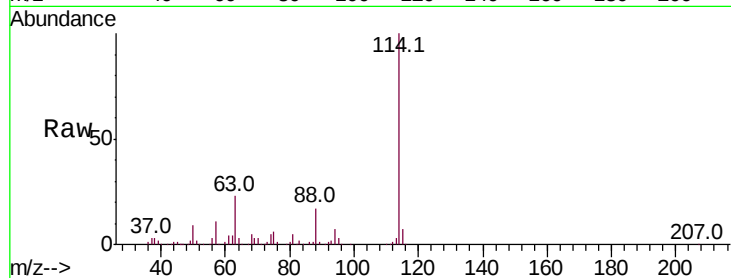
Tot Ion:114 Resp: 430894

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.4

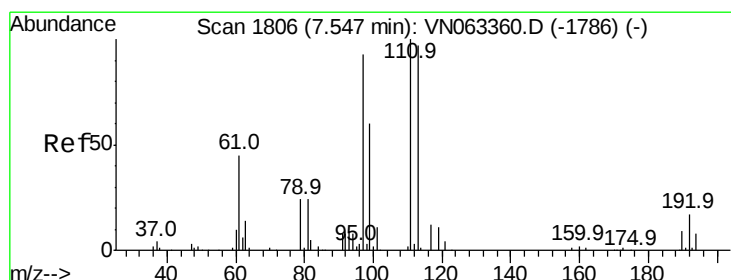
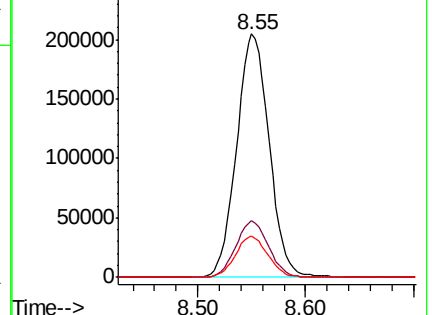
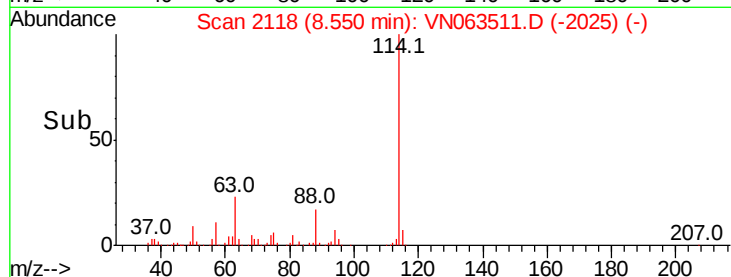
88 16.8 0.0 33.2



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: 45.677 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

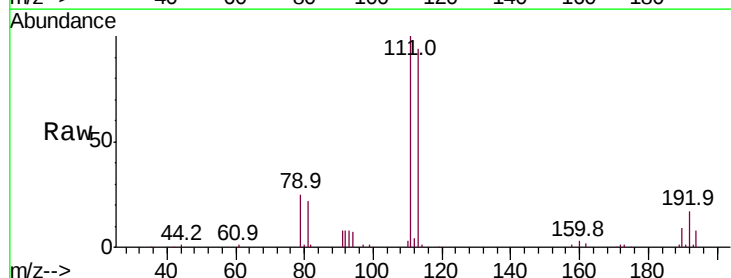
Tgt Ion:113 Resp: 136253

Ion Ratio Lower Upper

113 100

111 105.3 82.9 124.3

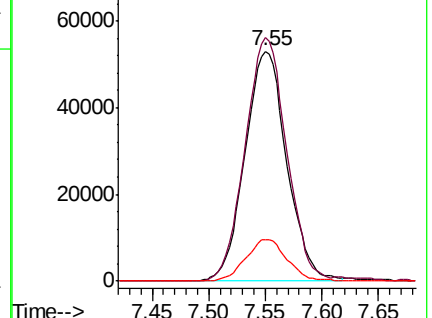
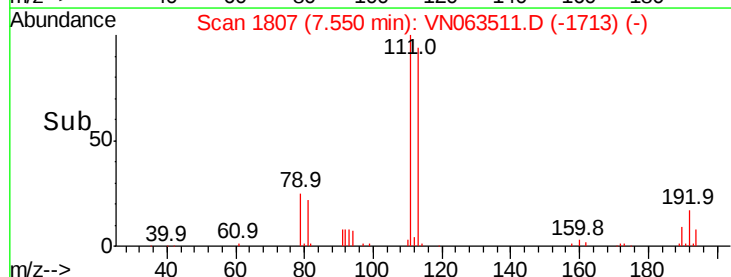
192 17.8 13.9 20.9

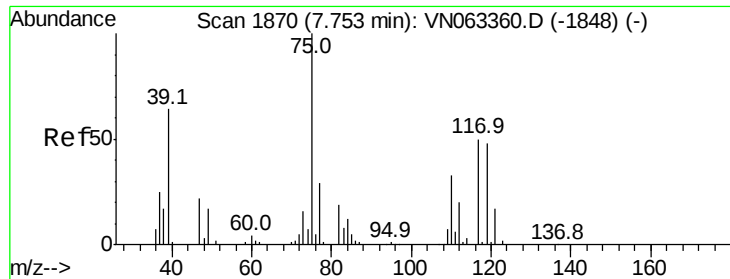


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.826 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

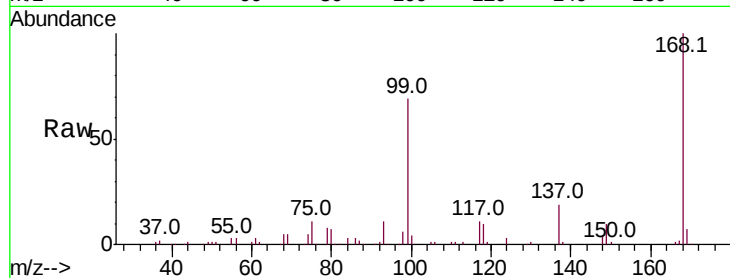
Tot Ion: 75 Resp: 22154

Ion Ratio Lower Upper

75 100

110 10.2 16.5 49.5#

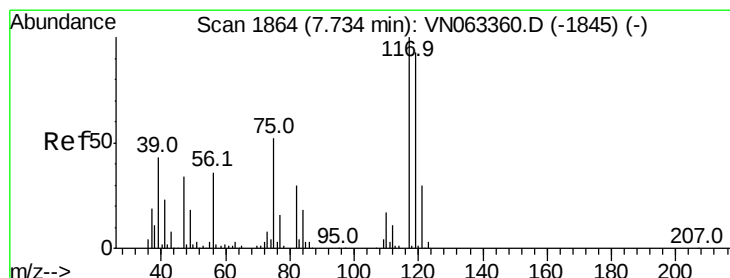
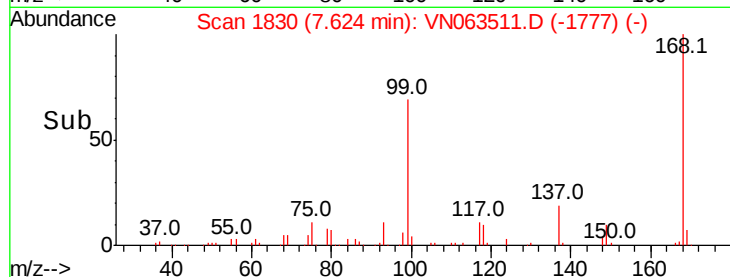
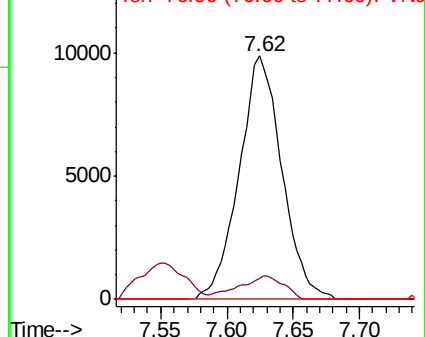
77 0.0 24.6 36.8#



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

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

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



#38

Carbon Tetrachloride

Concen: 5.329 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

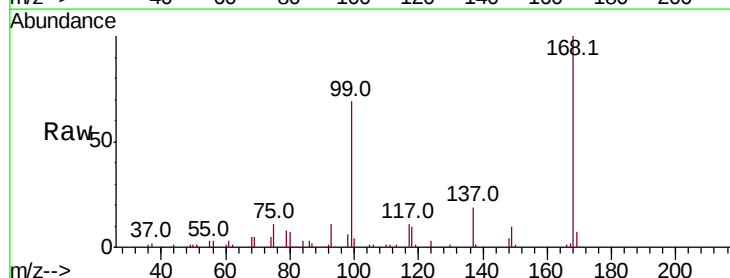
Tgt Ion: 117 Resp: 24970

Ion Ratio Lower Upper

117 100

119 5.0 74.5 111.7#

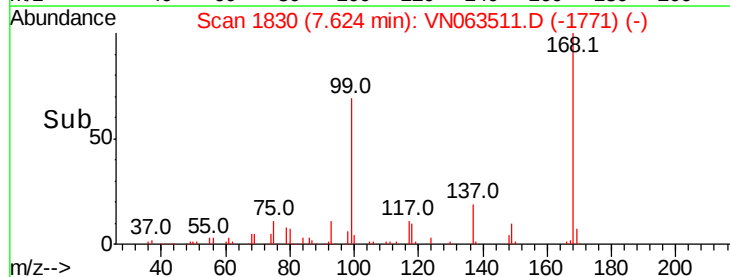
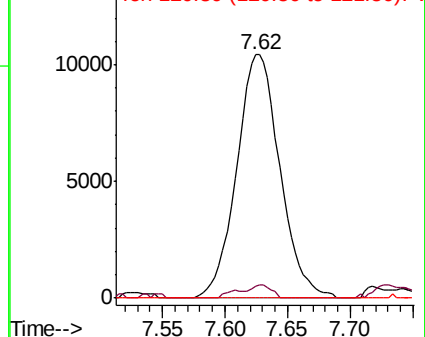
121 0.0 24.1 36.1#

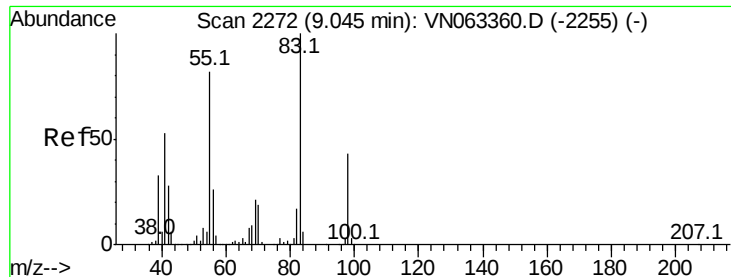


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

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

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

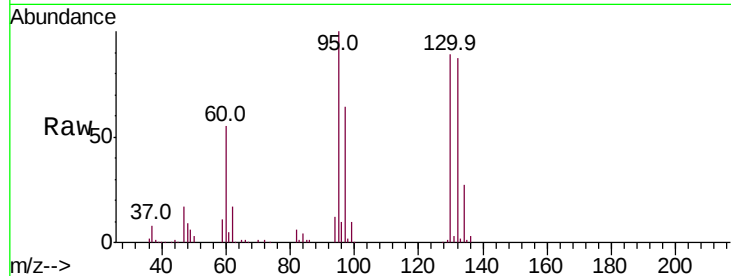




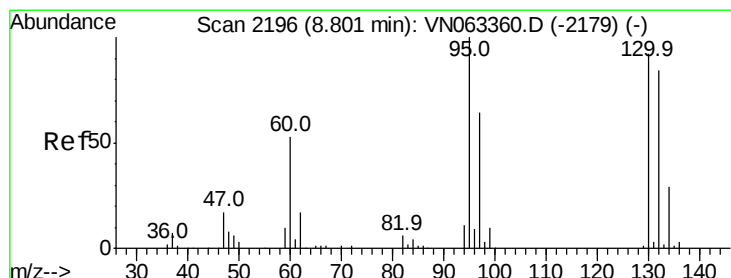
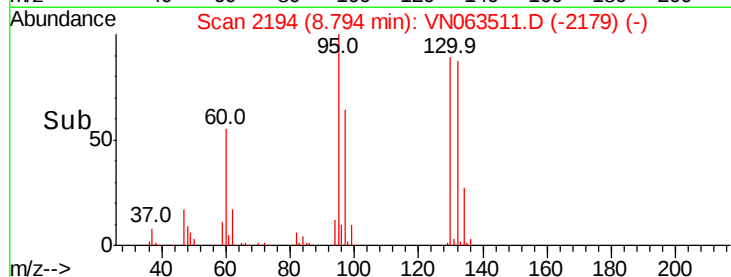
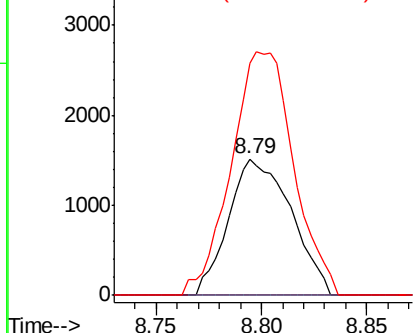
#39
Methylcyclohexane
Concen: 0.628 ug/l
RT: 8.79 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200915

Tot Ion: 83 Resp: 3130
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 170.7 34.2 51.4#

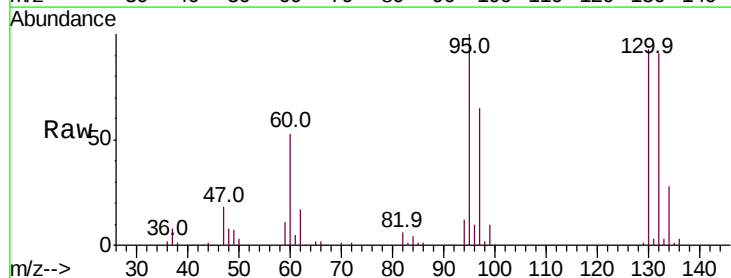


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

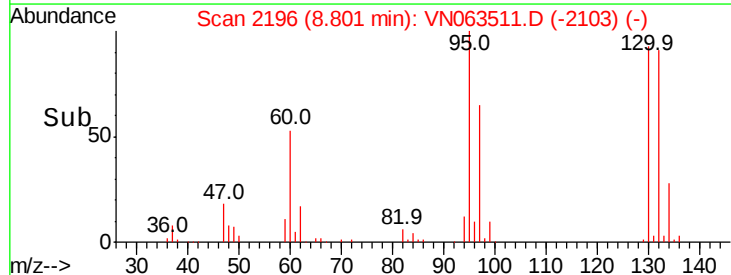
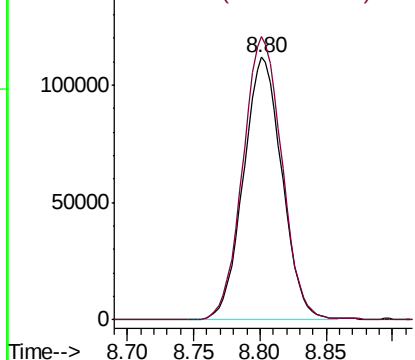


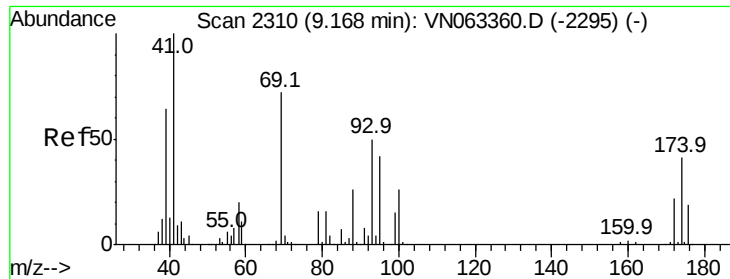
#44
Trichloroethene
Concen: 71.549 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

Tgt Ion:130 Resp: 227413
Ion Ratio Lower Upper
130 100
95 107.8 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: 15.651 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

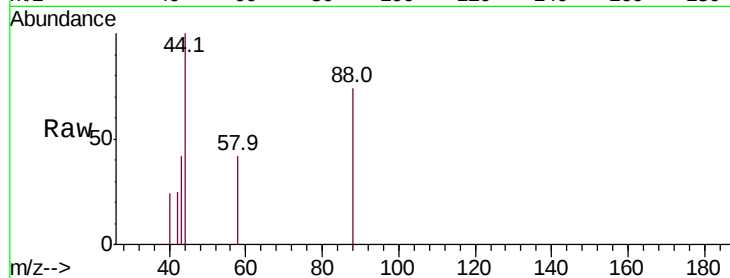
Tot Ion: 88 Resp: 889

Ion Ratio Lower Upper

88 100

43 28.0 32.6 49.0#

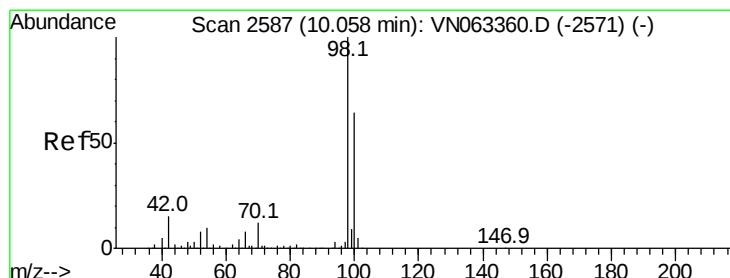
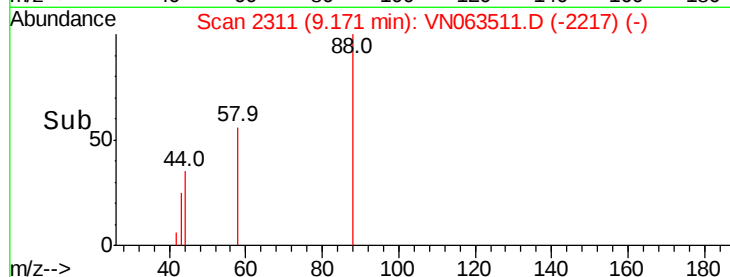
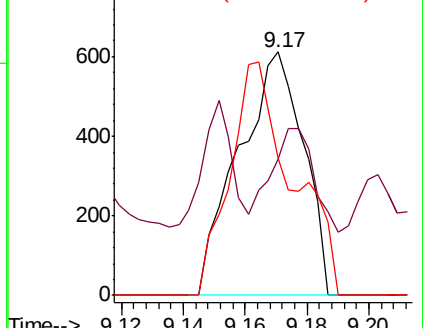
58 92.5 60.0 90.0#



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: 49.713 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063511.D

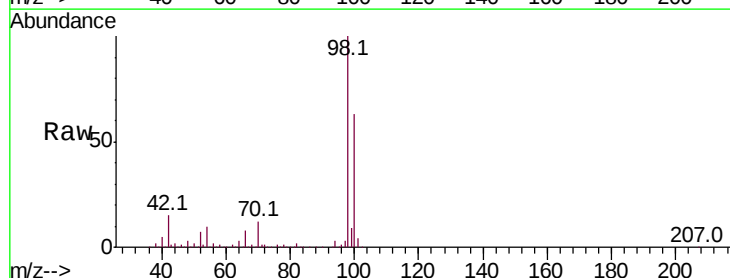
Acq: 22 Sep 2020 2:30

Tgt Ion: 98 Resp: 557610

Ion Ratio Lower Upper

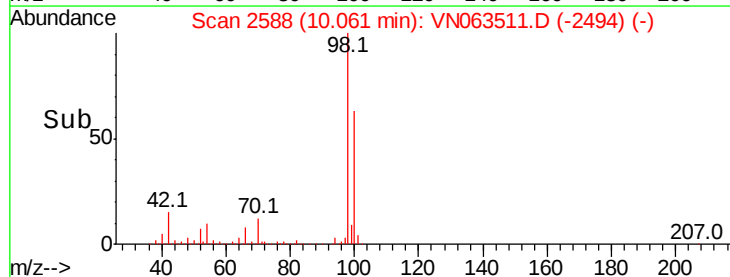
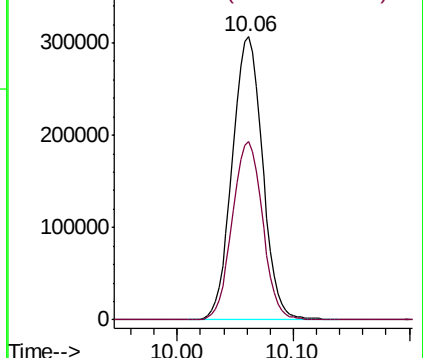
98 100

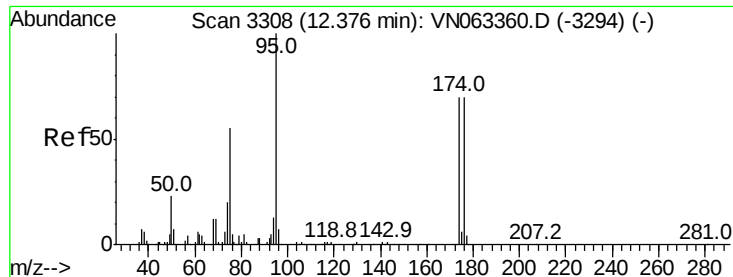
100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

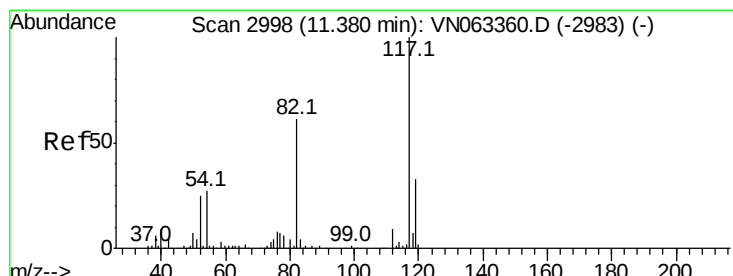
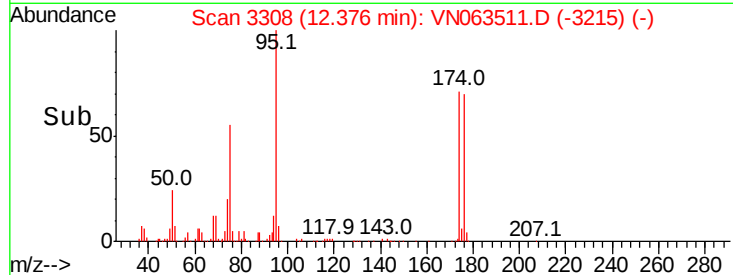
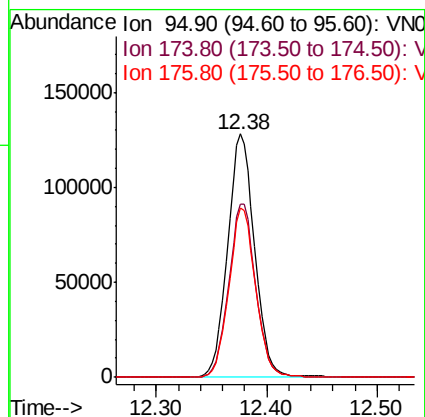
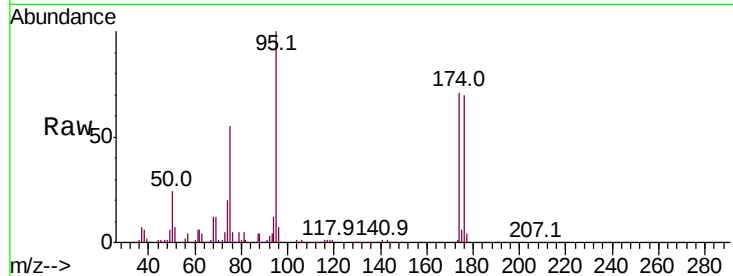




#62
4-Bromofluorobenzene
Concen: 52.747 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

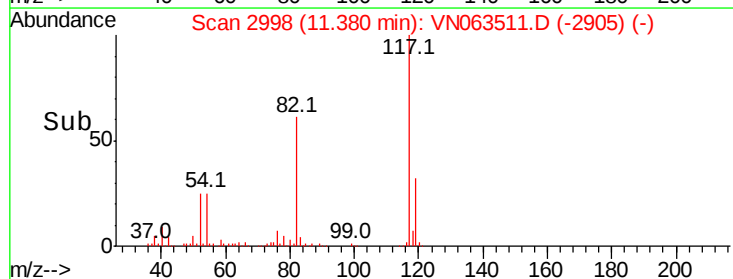
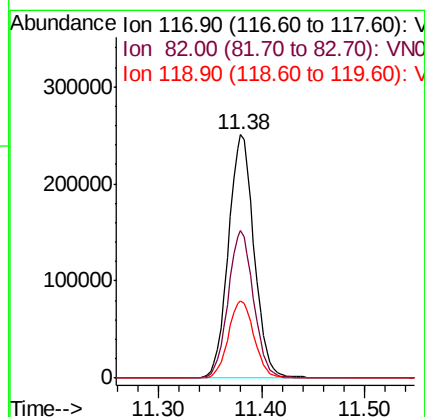
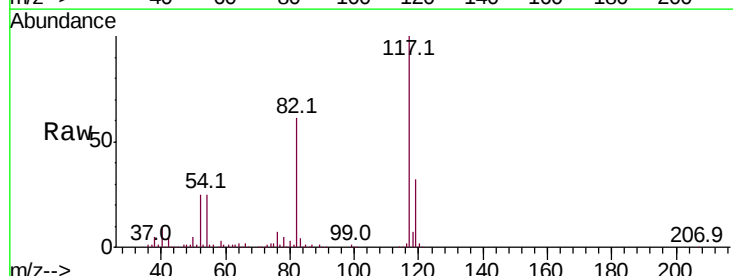
Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200915

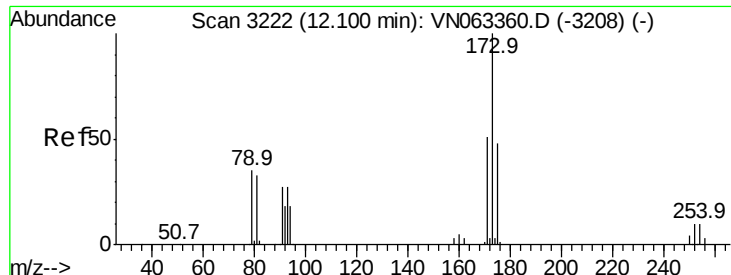
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	140.8
176	68.9	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.6	49.2	73.8
119	31.8	26.2	39.4





#71

Bromoform

Concen: 0.596 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063511.D

Acq: 22 Sep 2020 2:30

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200915

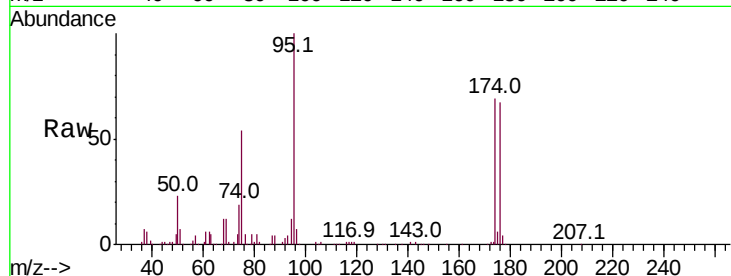
Tot Ion:173 Resp: 1503

Ion Ratio Lower Upper

173 100

175 651.8 24.0 72.0#

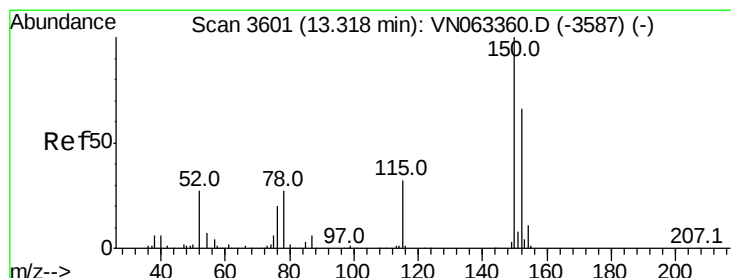
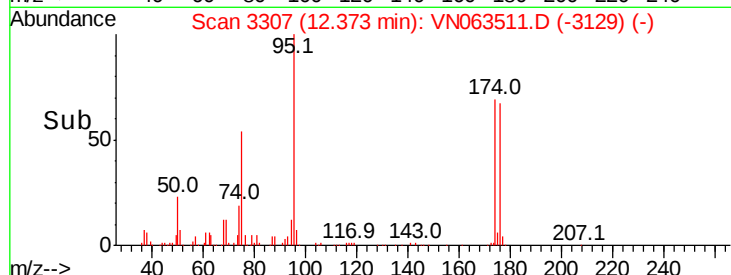
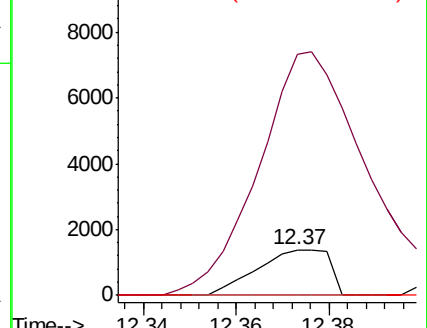
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN063511.D

Acq: 22 Sep 2020 2:30

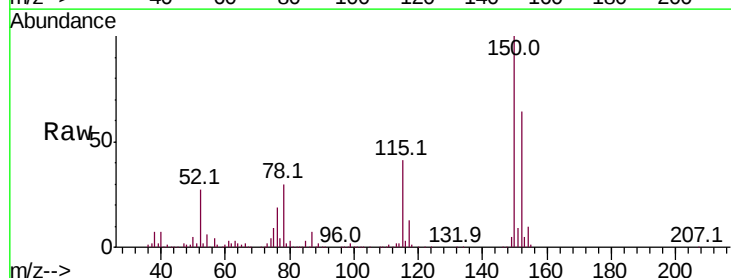
Tgt Ion:152 Resp: 179429

Ion Ratio Lower Upper

152 100

115 64.5 32.2 96.6

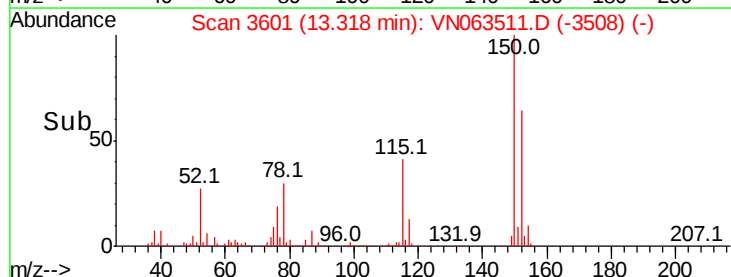
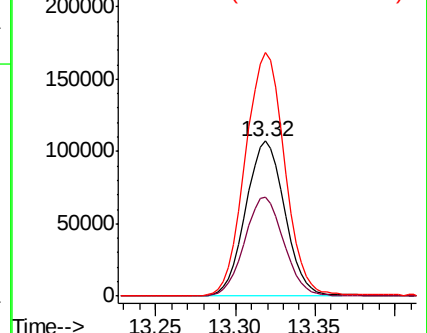
150 158.6 0.0 343.4

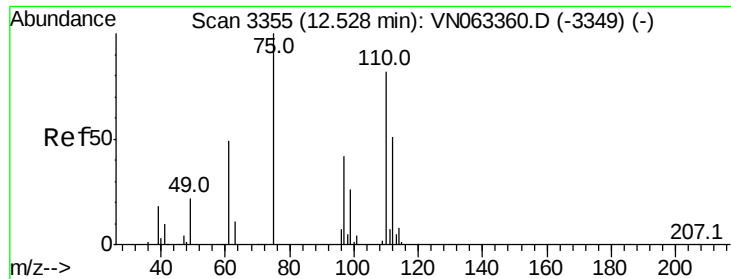


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

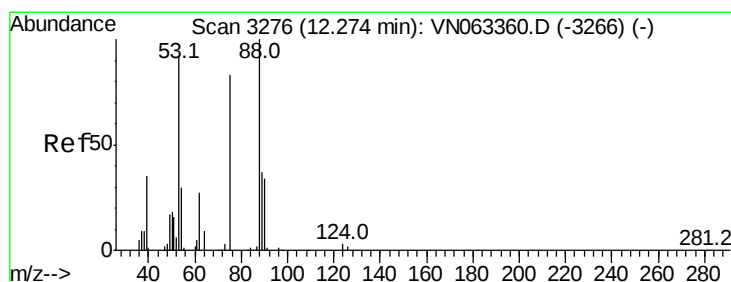
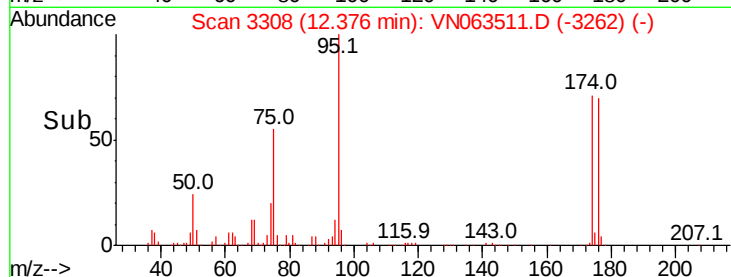
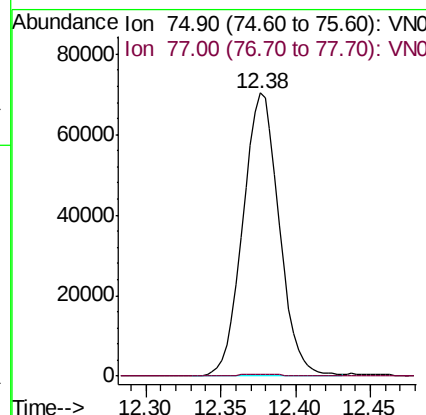
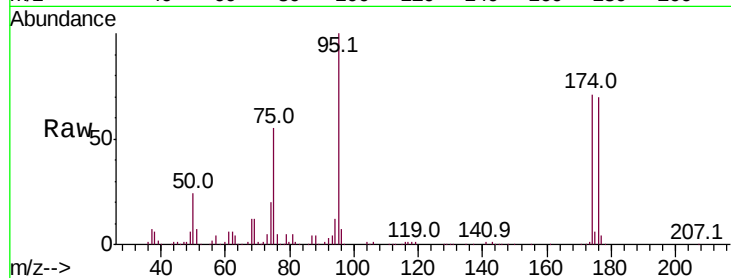




#76
1,2,3-Trichloropropane
Concen: 26.794 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200915

Tot Ion: 75 Resp: 118993
Ion Ratio Lower Upper
75 100
77 0.7 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.458 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063511.D
Acq: 22 Sep 2020 2:30

Tgt Ion: 75 Resp: 118993
Ion Ratio Lower Upper
75 100
53 0.0 85.7 128.5#
89 0.1 38.0 57.0#

