

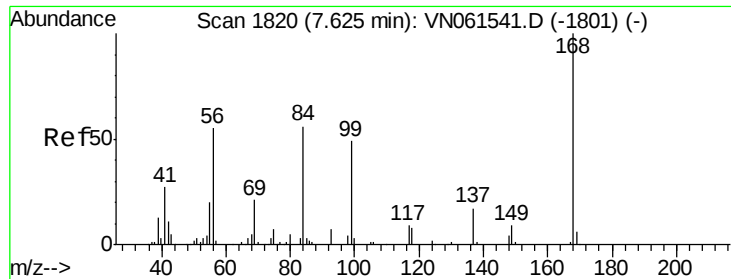
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061794.D
 Acq On : 12 Jun 2020 16:23
 Operator : JC/MD
 Sample : L2989-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D1-20200609

Quant Time: Jun 13 05:13:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	275026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	453628	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	455674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195289	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	154835	47.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.50%	
35) Dibromofluoromethane	7.55	113	128344	55.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.54%	
50) Toluene-d8	10.06	98	556903	52.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.44%	
62) 4-Bromofluorobenzene	12.38	95	186395	47.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.82%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	1694	1.669	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.72	101	17470	6.641	ug/l	98
12) 1,1-Dichloroethene	3.70	96	2602	0.926	ug/l #	77
14) Allyl chloride	4.02	41	1855	0.505	ug/l #	71
16) Acetone	3.78	43	4470	Below Cal		94
18) Methyl Acetate	4.02	43	7842	2.644	ug/l #	46
20) Methylene Chloride	4.50	84	98	Below Cal	#	39
27) cis-1,2-Dichloroethene	6.79	96	4077	1.136	ug/l	92
31) Cyclohexane	7.63	56	4643	1.005	ug/l #	20
32) 1,1,1-Trichloroethane	7.53	97	2863	0.553	ug/l #	49
36) 1,1-Dichloropropene	7.63	75	18249	4.544	ug/l #	47
38) Carbon Tetrachloride	7.63	117	25284	6.527	ug/l #	16
39) Methylcyclohexane	8.80	83	3156	0.638	ug/l #	1
44) Trichloroethene	8.80	130	256832	67.447	ug/l	97
49) 1,4-Dioxane	9.16	88	639	15.755	ug/l #	80
51) 4-Methyl-2-Pentanone	10.06	43	2056	0.627	ug/l #	1
71) Bromoform	12.38	173	1589	0.585	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	91710	25.826	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	91710	66.043	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

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ClientSampleId :

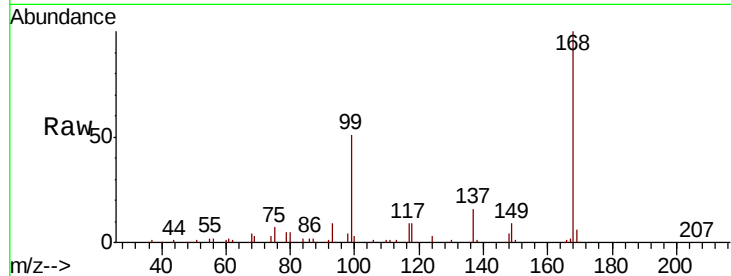
RE105D1-20200609

Tot Ion:168 Resp: 275026

Ion Ratio Lower Upper

168 100

99 50.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

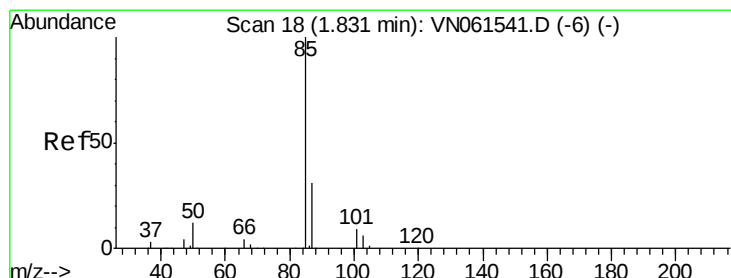
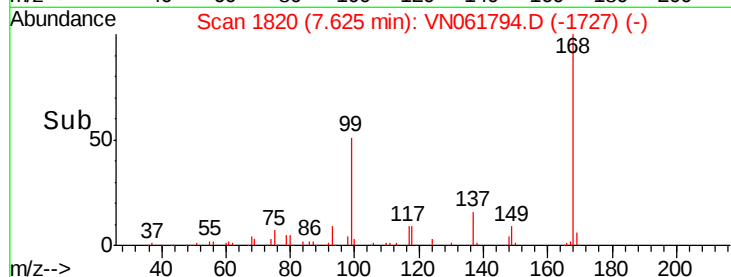
7.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.669 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061794.D

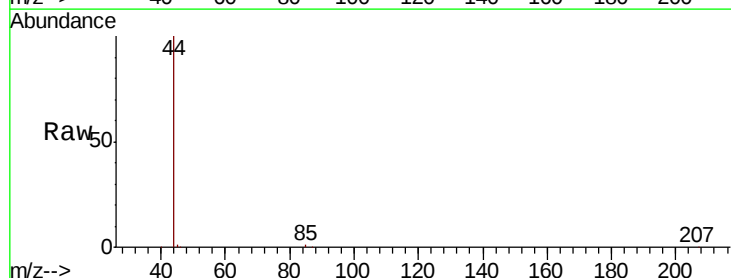
Acq: 12 Jun 2020 16:23

Tgt Ion: 85 Resp: 1694

Ion Ratio Lower Upper

85 100

87 23.8 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

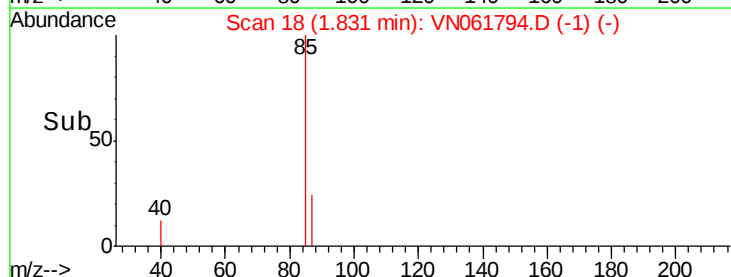
1500

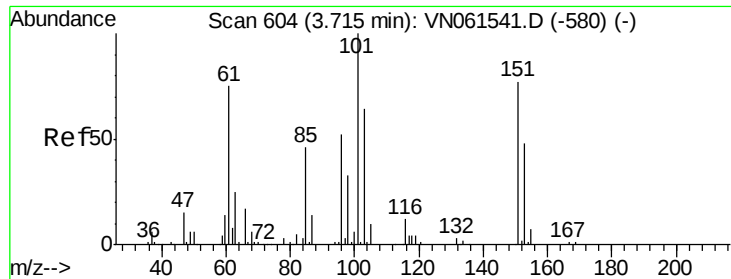
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.641 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200609

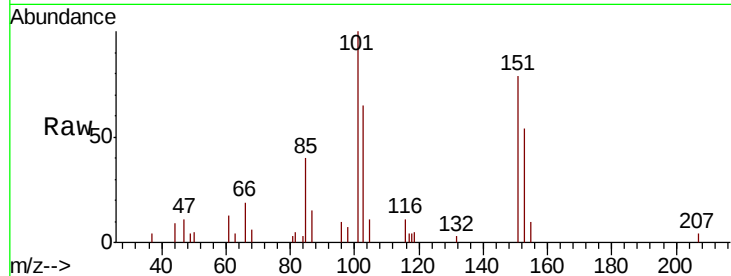
Tot Ion:101 Resp: 17470

Ion Ratio Lower Upper

101 100

85 43.1 35.2 52.8

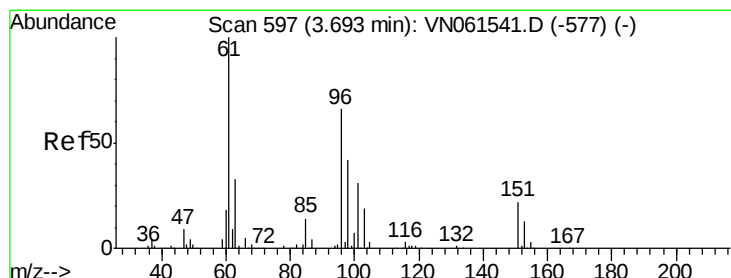
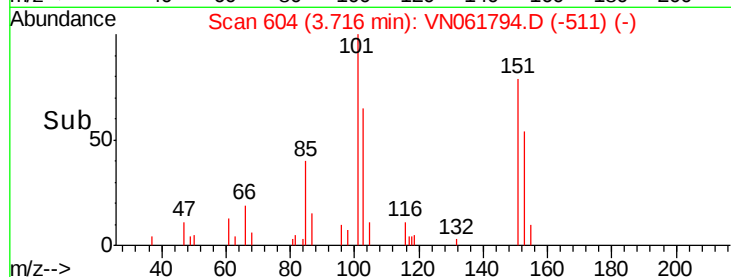
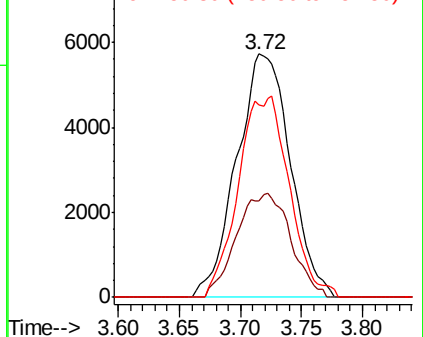
151 78.7 61.0 91.6



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



#12

1,1-Dichloroethene

Concen: 0.926 ug/l

RT: 3.70 min Scan# 600

Delta R.T. 0.01 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

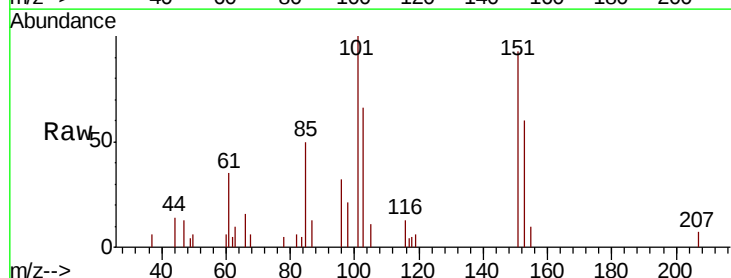
Tgt Ion: 96 Resp: 2602

Ion Ratio Lower Upper

96 100

61 110.7 120.5 180.7#

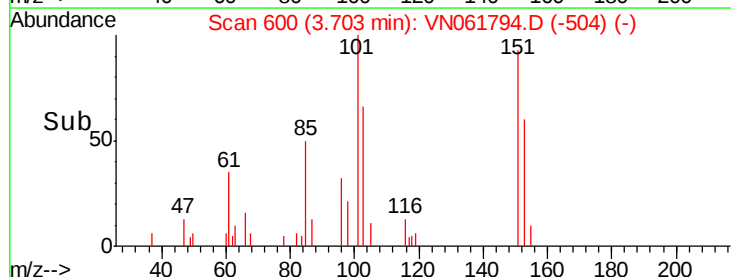
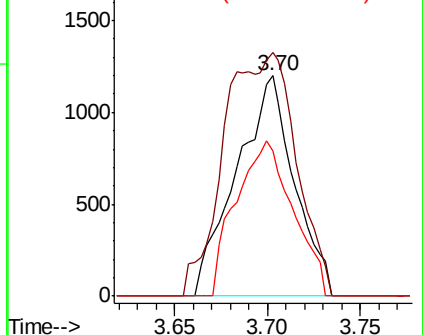
98 65.9 50.8 76.2

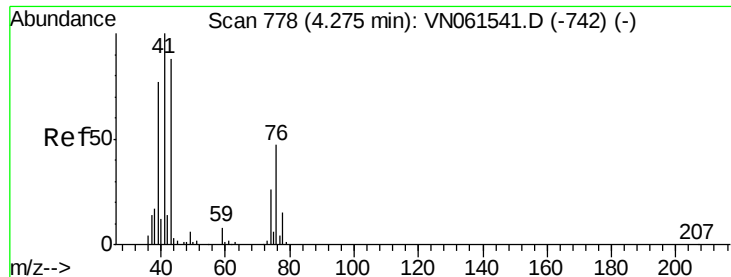


Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN

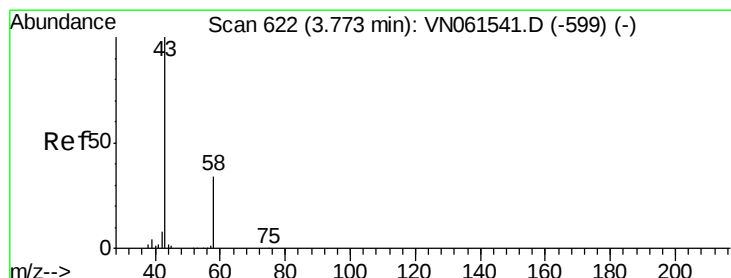
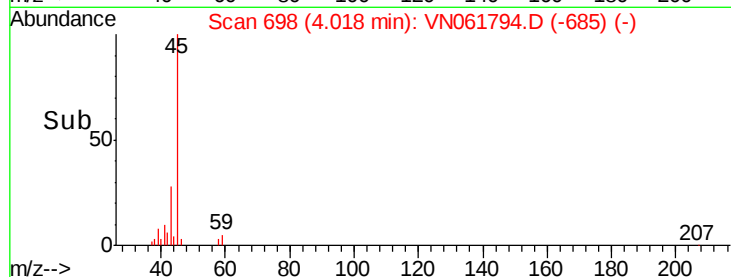
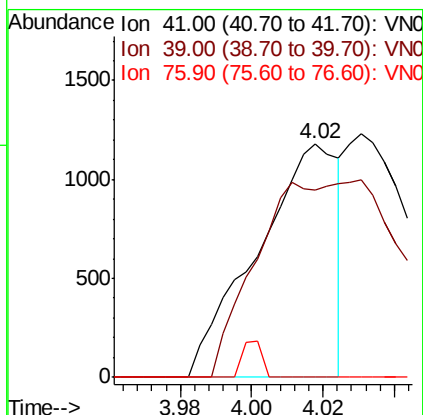
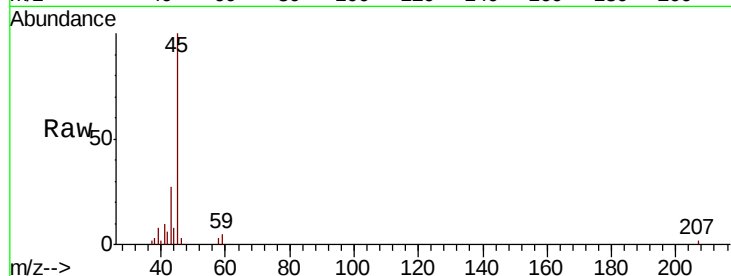




#14
Allvl chloride
Concen: 0.505 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.26 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

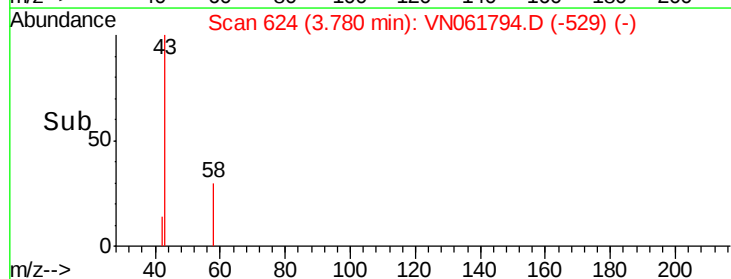
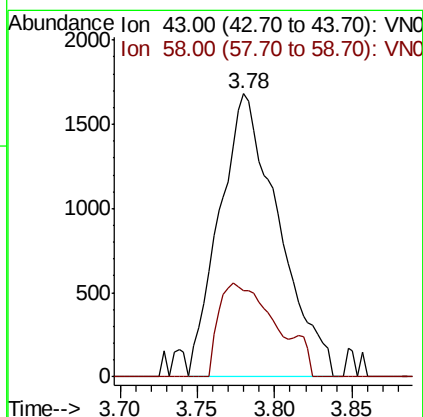
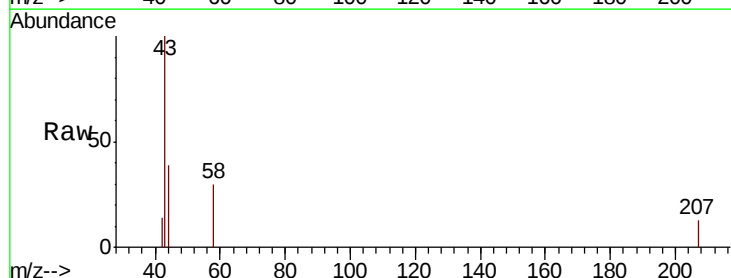
Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200609

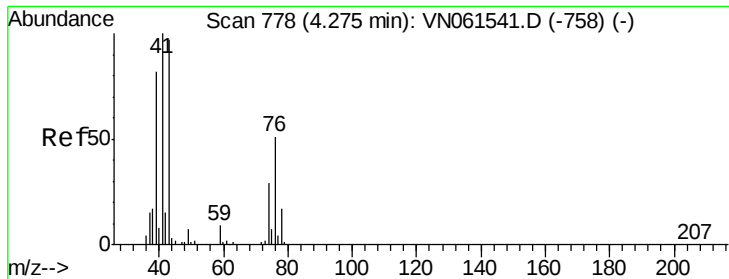
Tot Ion: 41 Resp: 1855
Ion Ratio Lower Upper
41 100
39 64.7 58.6 88.0
76 3.7 34.2 51.4#



#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

Tgt Ion: 43 Resp: 4470
Ion Ratio Lower Upper
43 100
58 30.3 27.2 40.8

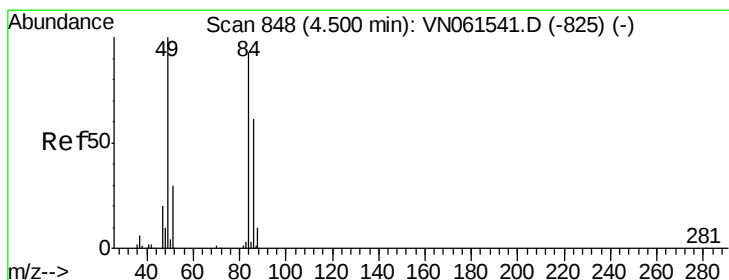
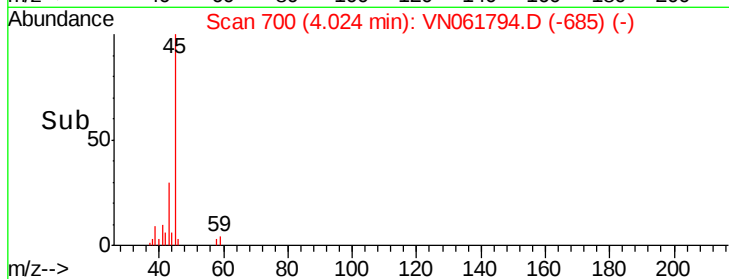
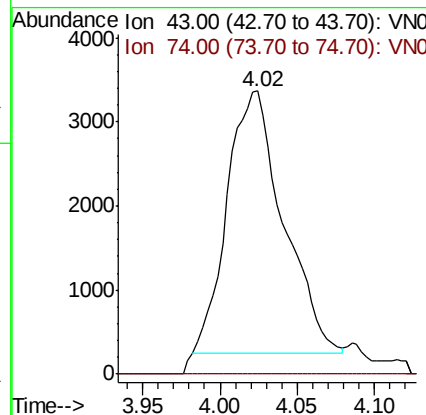
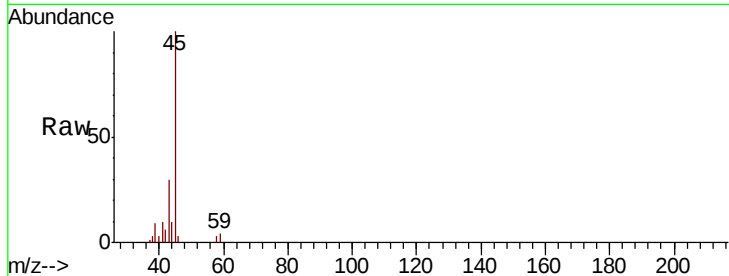




#18
Methvl Acetate
Concen: 2.644 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.25 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

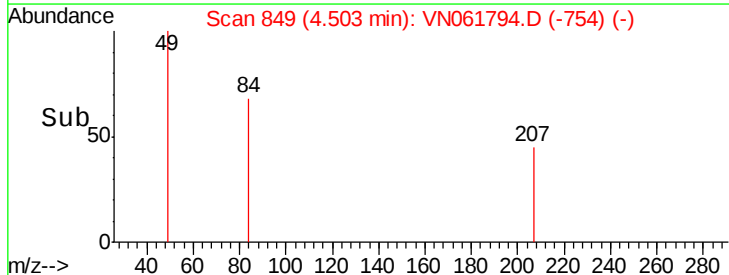
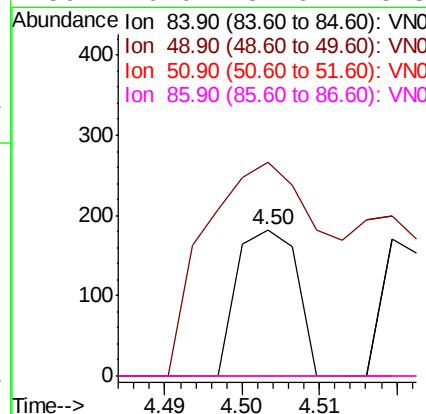
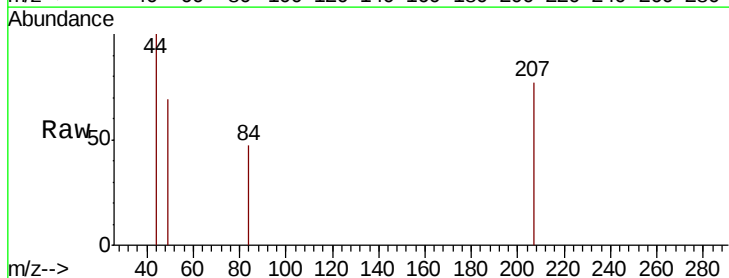
Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200609

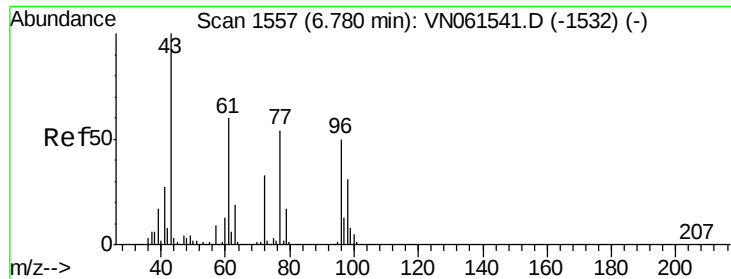
Tot Ion: 43 Resp: 7842
Ion Ratio Lower Upper
43 100
74 0.0 23.2 34.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

Tgt Ion: 84 Resp: 98
Ion Ratio Lower Upper
84 100
49 57.1 85.8 128.8#
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#





#27

cis-1,2-Dichloroethene

Concen: 1.136 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200609

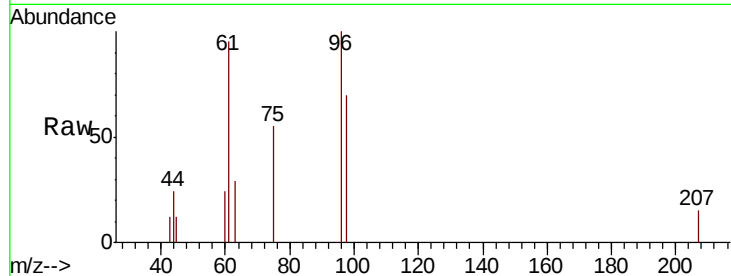
Tot Ion: 96 Resp: 4077

Ion Ratio Lower Upper

96 100

61 117.5 0.0 252.2

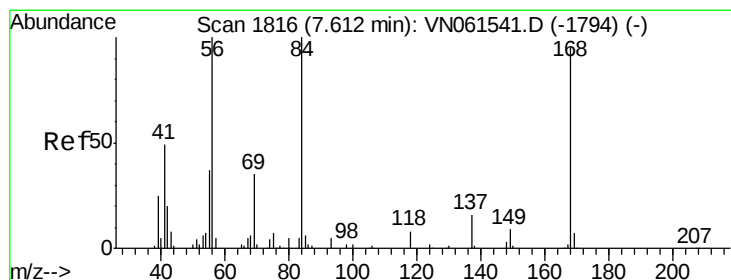
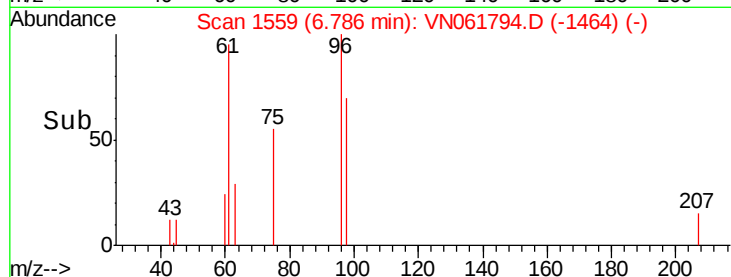
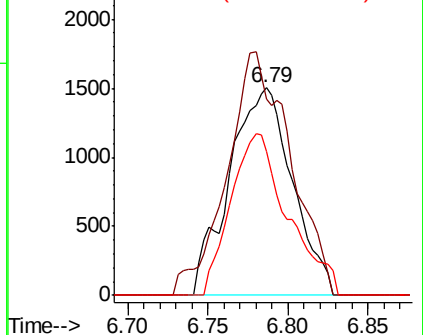
98 70.5 0.0 129.2



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



#31

Cyclohexane

Concen: 1.005 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

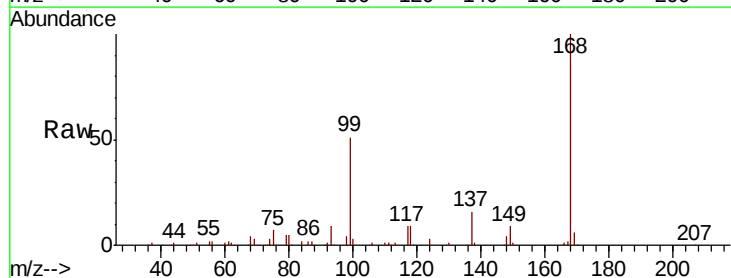
Tgt Ion: 56 Resp: 4643

Ion Ratio Lower Upper

56 100

69 158.5 27.8 41.8#

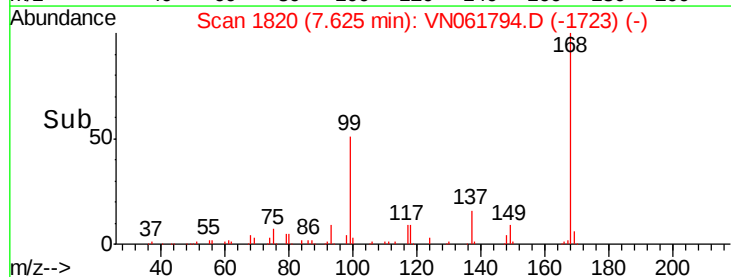
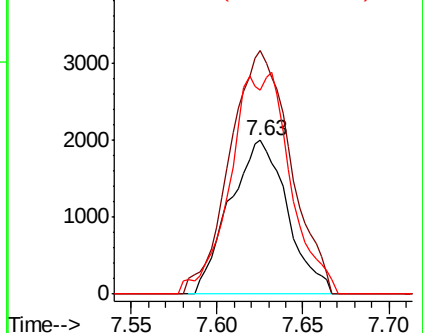
84 132.8 79.9 119.9#

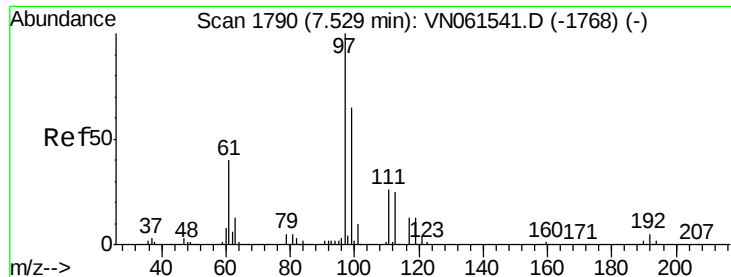


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#32

1,1,1-Trichloroethane

Concen: 0.553 ug/l

RT: 7.53 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

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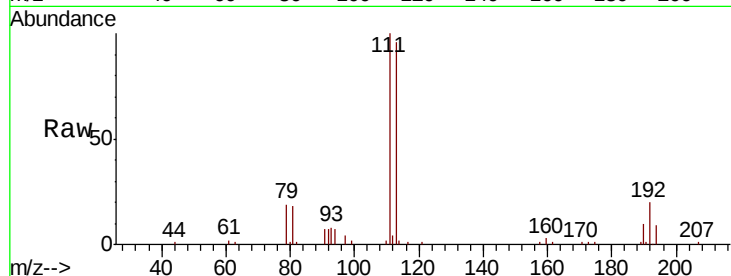
Tot Ion: 97 Resp: 2863

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

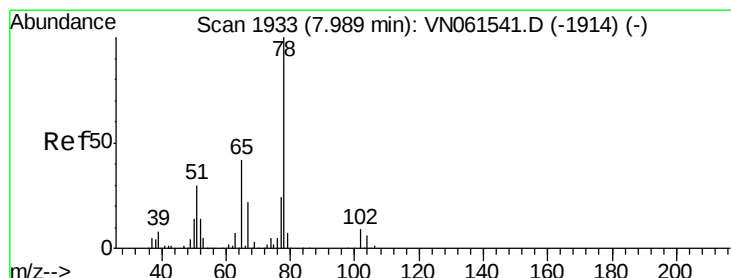
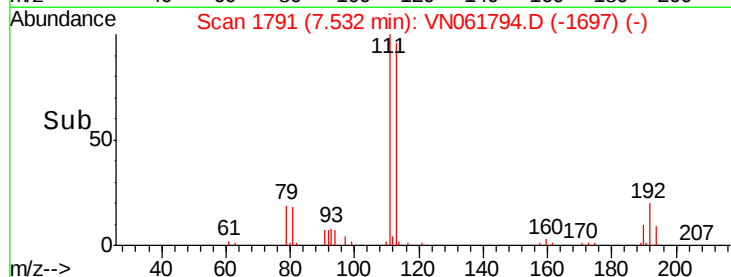
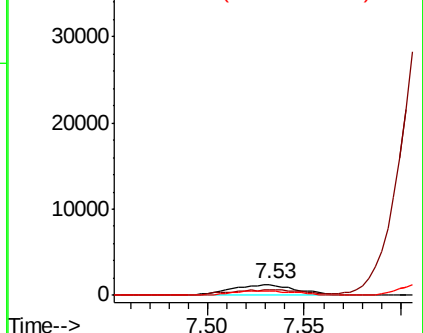
61 39.8 31.4 47.0



Abundance Ion 96.90 (96.60 to 97.60): VN061794.D (-1697) (-)

Ion 98.90 (98.60 to 99.60): VN061794.D (-1697) (-)

Ion 60.90 (60.60 to 61.60): VN061794.D (-1697) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.252 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061794.D

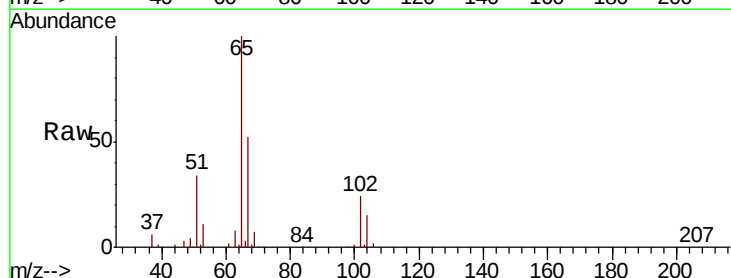
Acq: 12 Jun 2020 16:23

Tgt Ion: 65 Resp: 154835

Ion Ratio Lower Upper

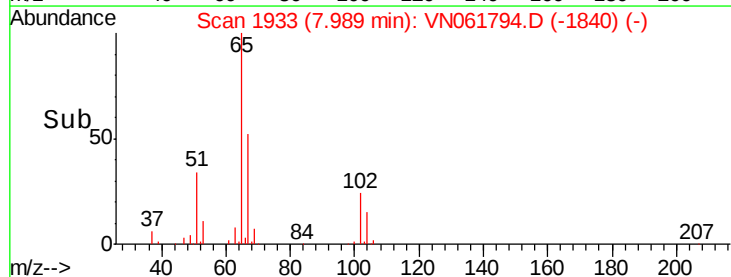
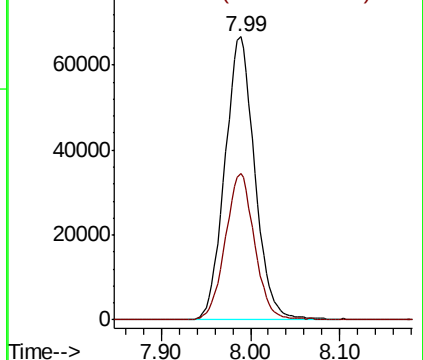
65 100

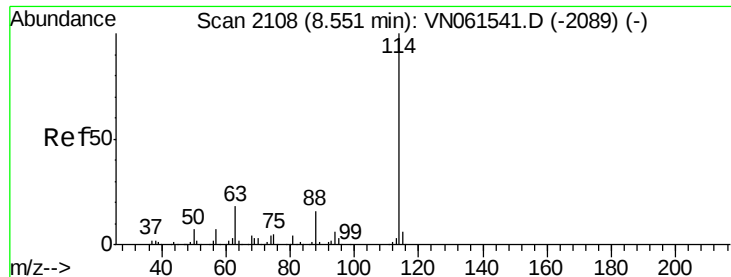
67 50.5 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061794.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061794.D (-1840) (-)

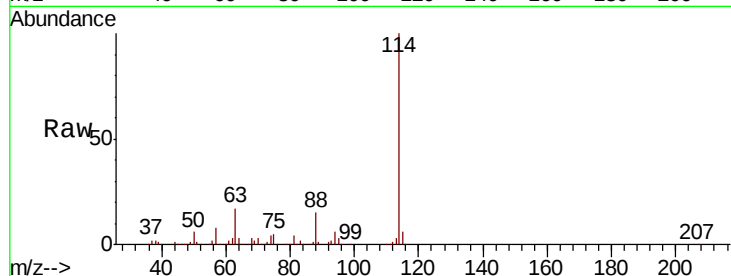




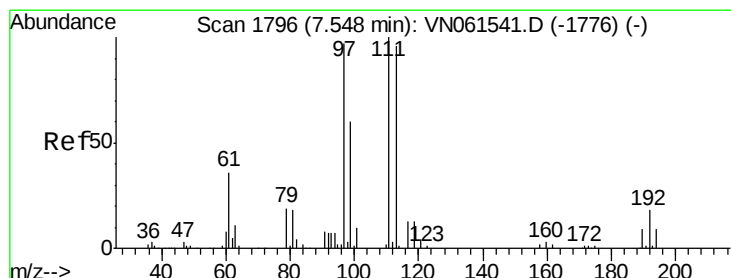
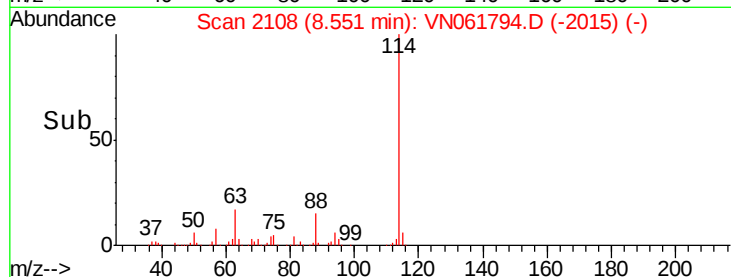
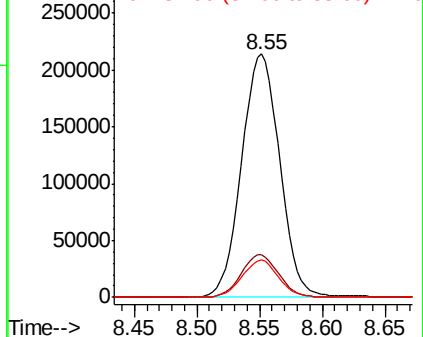
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D1-20200609

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	35.8
88	15.2	0.0	31.0

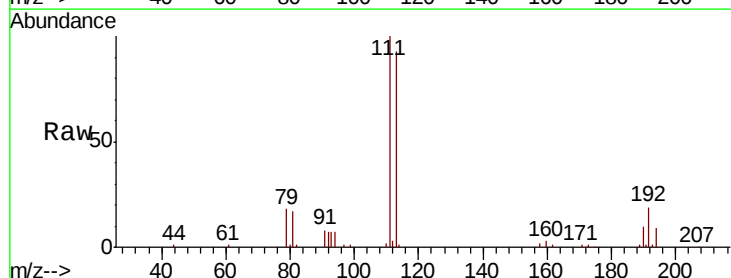


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

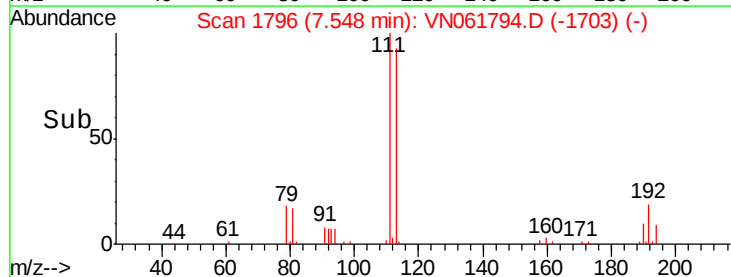
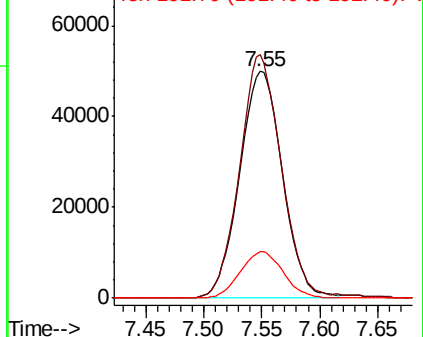


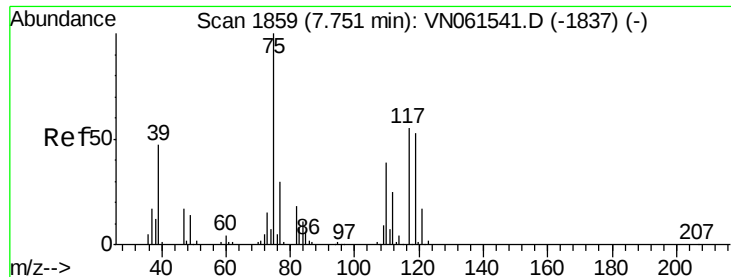
#35
 Dibromofluoromethane
 Concen: 55.773 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.4	125.0
192	20.6	15.4	23.2



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

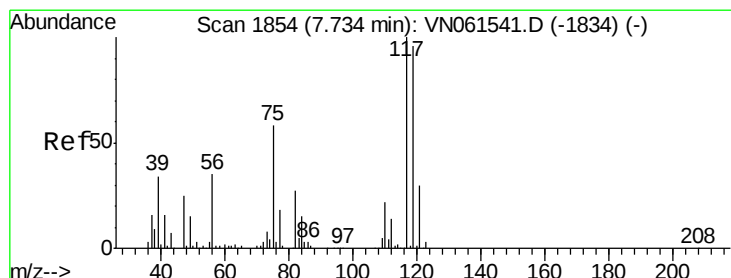
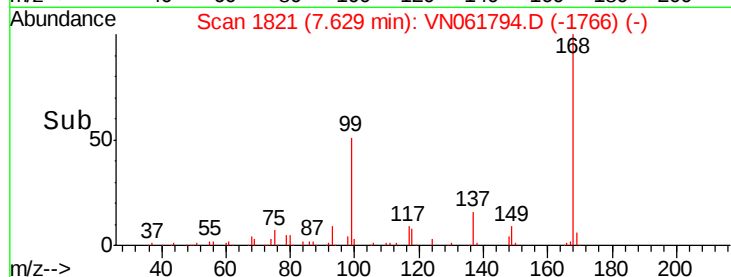
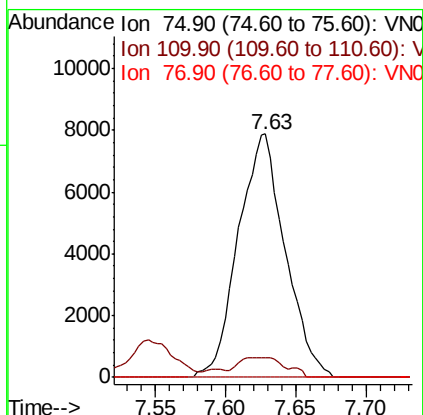
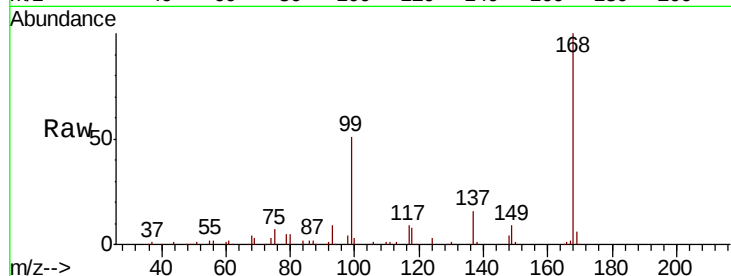




#36
 1,1-Dichloropropene
 Concen: 4.544 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

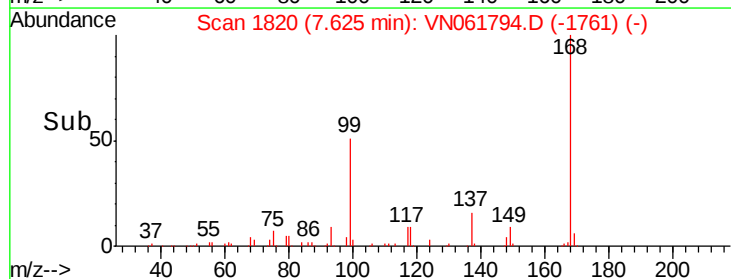
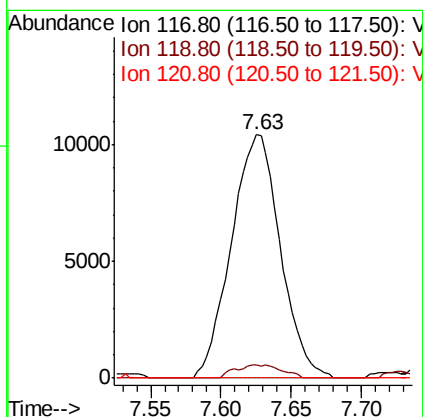
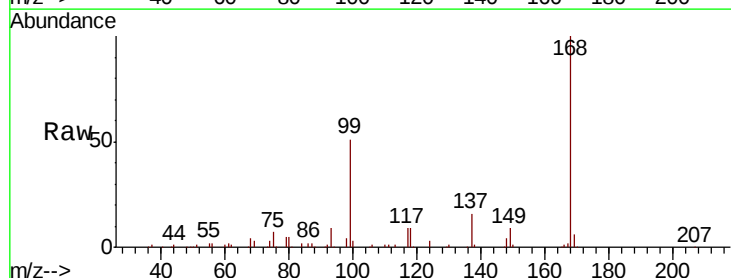
Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D1-20200609

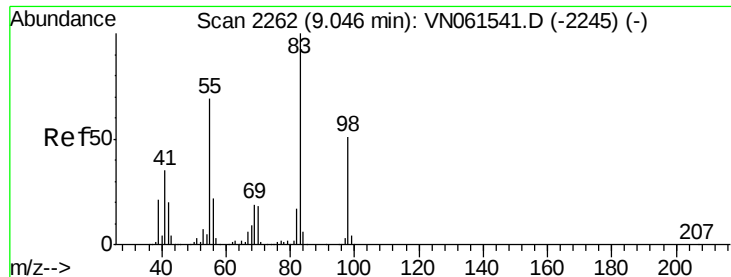
Tot Ion	75	Resp	18249
Ion Ratio	Lower	Upper	
75	100		
110	8.4	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.527 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

Tgt Ion	117	Resp	25284
Ion Ratio	Lower	Upper	
117	100		
119	5.4	76.5	114.7#
121	0.0	24.1	36.1#

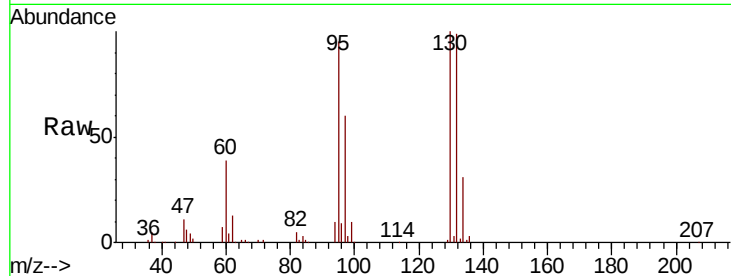




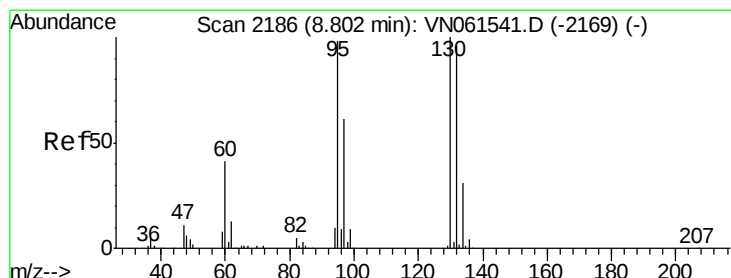
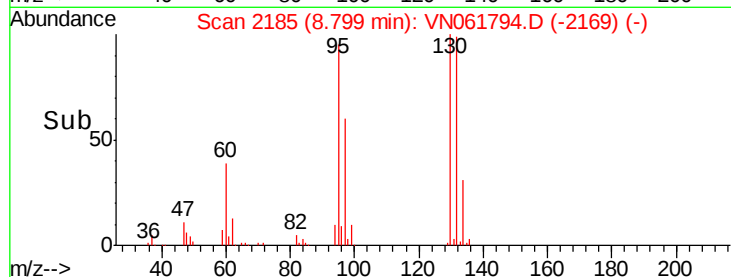
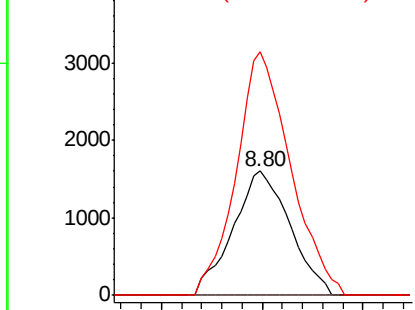
#39
Methylcyclohexane
Concen: 0.638 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200609

Tot Ion: 83 Resp: 3156
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 195.8 41.0 61.4#

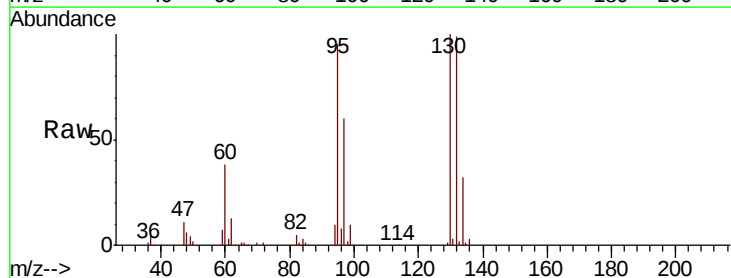


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

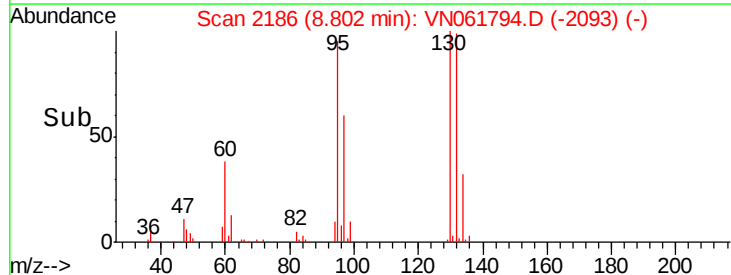
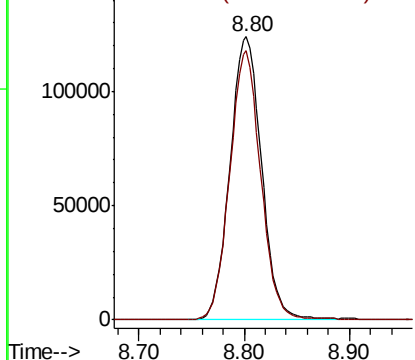


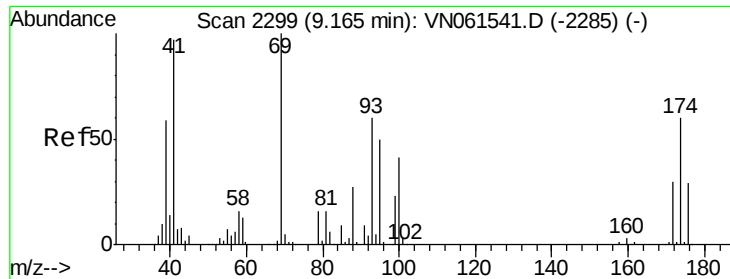
#44
Trichloroethene
Concen: 67.447 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

Tgt Ion:130 Resp: 256832
Ion Ratio Lower Upper
130 100
95 95.0 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#49

1,4-Dioxane

Concen: 15.755 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200609

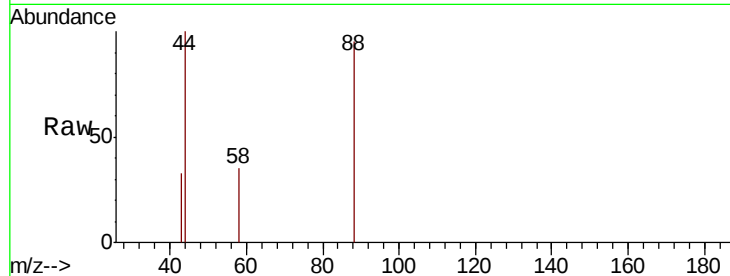
Tot Ion: 88 Resp: 639

Ion Ratio Lower Upper

88 100

43 15.5 23.1 34.7#

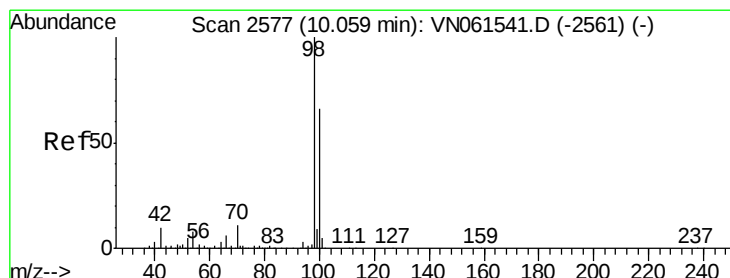
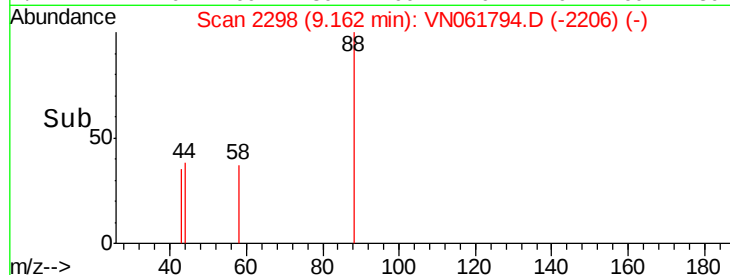
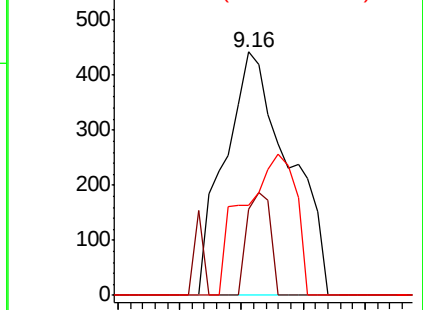
58 47.4 48.3 72.5#



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: 52.223 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061794.D

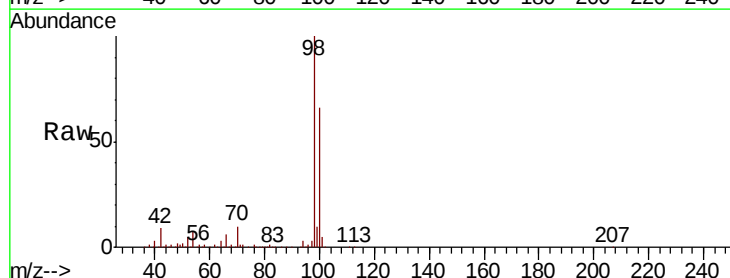
Acq: 12 Jun 2020 16:23

Tgt Ion: 98 Resp: 556903

Ion Ratio Lower Upper

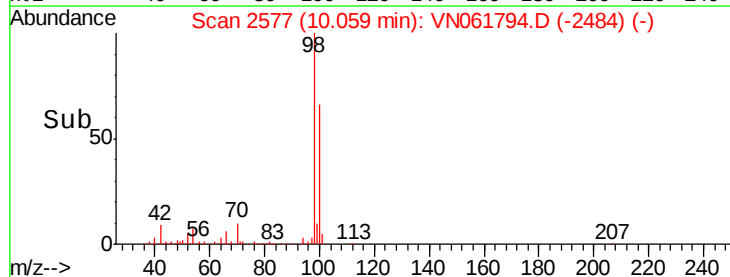
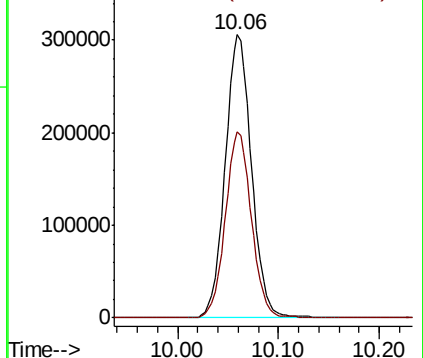
98 100

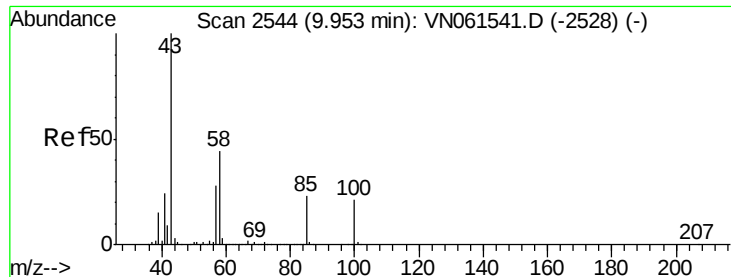
100 65.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

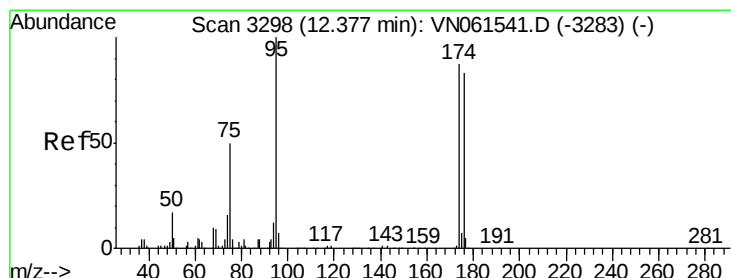
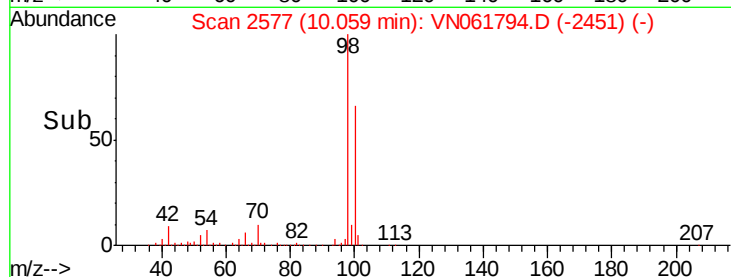
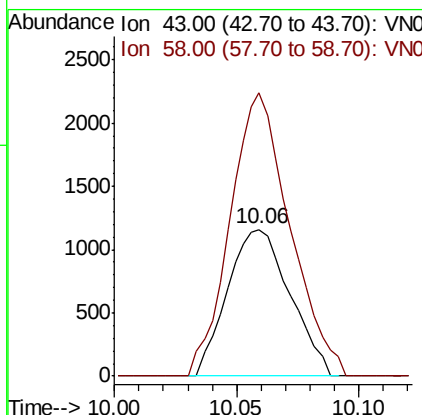
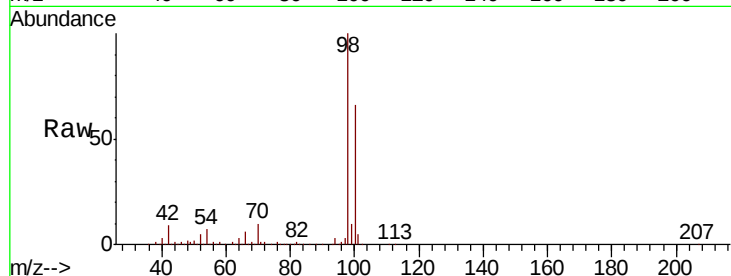




#51
 4-Methyl-2-Pentanone
 Concen: 0.627 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. 0.11 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

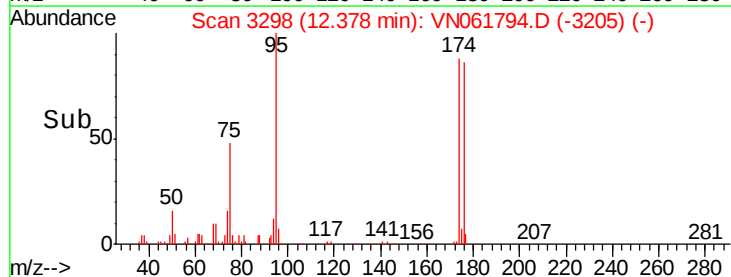
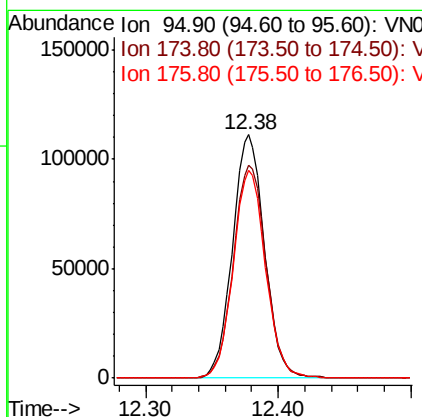
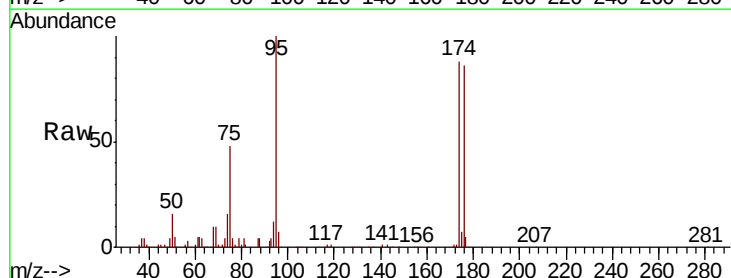
Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D1-20200609

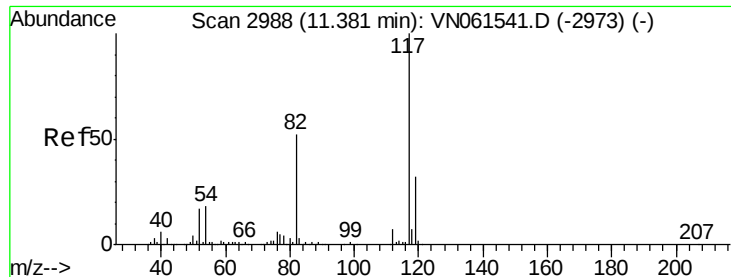
Tot Ion: 43 Resp: 2056
 Ion Ratio Lower Upper
 43 100
 58 185.0 35.0 52.6#



#62
 4-Bromofluorobenzene
 Concen: 47.909 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061794.D
 Acq: 12 Jun 2020 16:23

Tgt Ion: 95 Resp: 186395
 Ion Ratio Lower Upper
 95 100
 174 89.6 0.0 172.8
 176 86.1 0.0 164.8

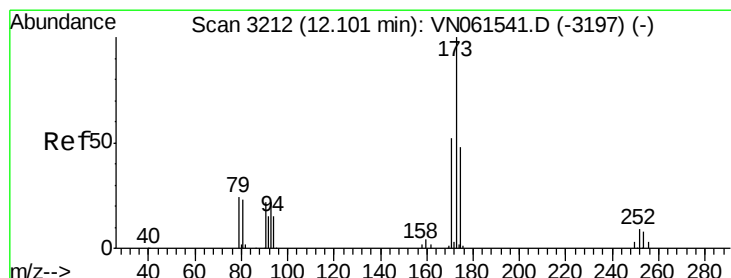
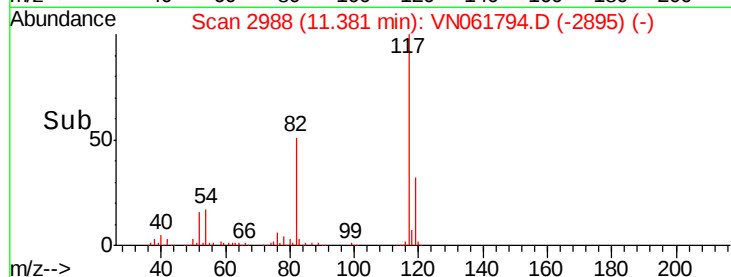
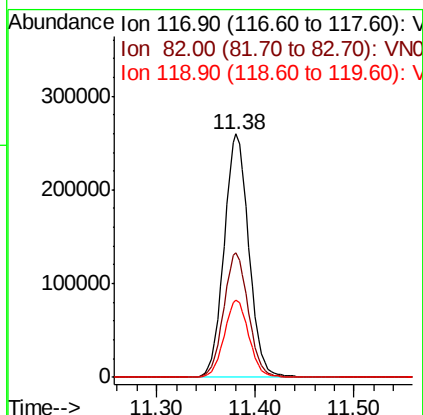
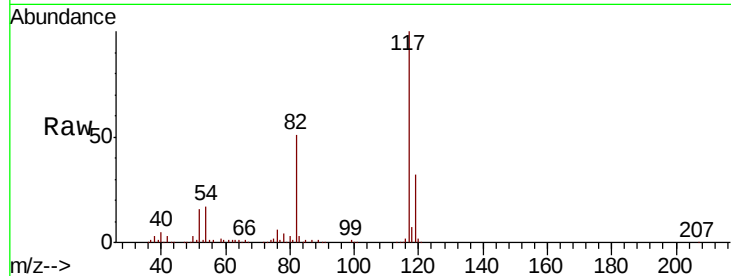




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

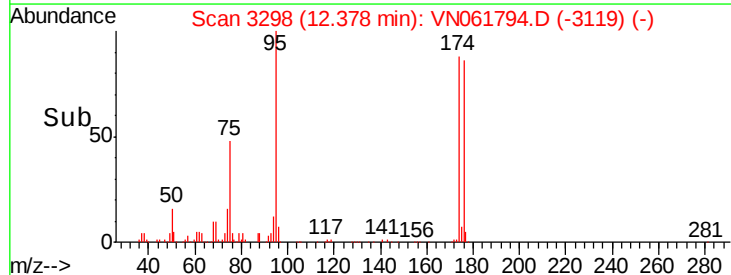
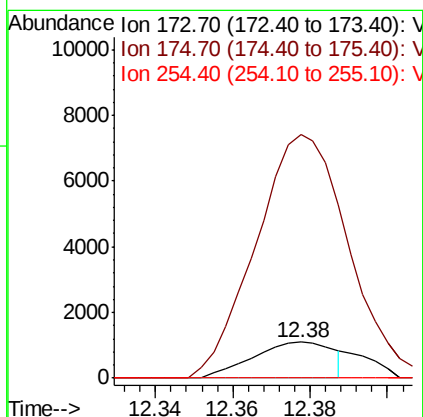
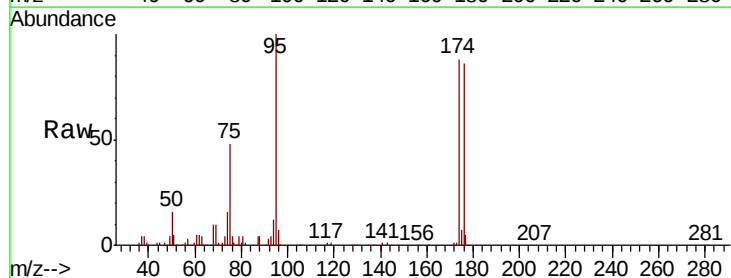
Instrument :
MSVOA_N
ClientSampleId :
RE105D1-20200609

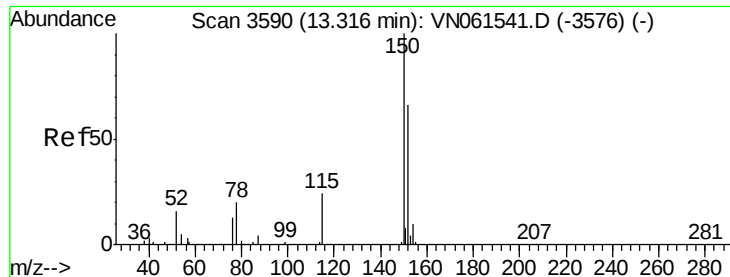
Tot Ion:117 Resp: 455674
Ion Ratio Lower Upper
117 100
82 51.3 41.5 62.3
119 31.9 25.6 38.4



#71
Bromoform
Concen: 0.585 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061794.D
Acq: 12 Jun 2020 16:23

Tgt Ion:173 Resp: 1589
Ion Ratio Lower Upper
173 100
175 650.0 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200609

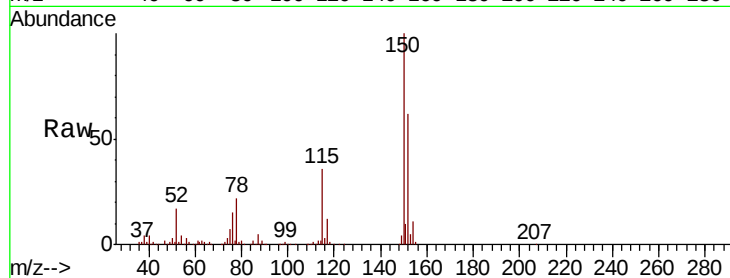
Tot Ion:152 Resp: 195289

Ion Ratio Lower Upper

152 100

115 56.9 28.0 84.0

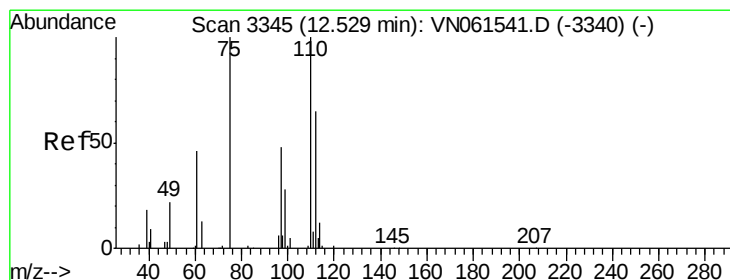
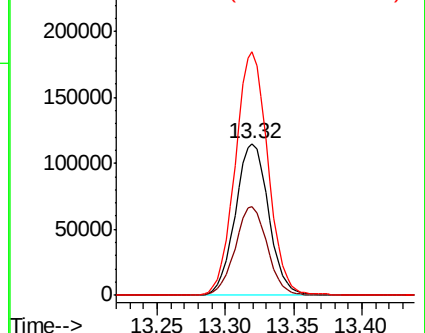
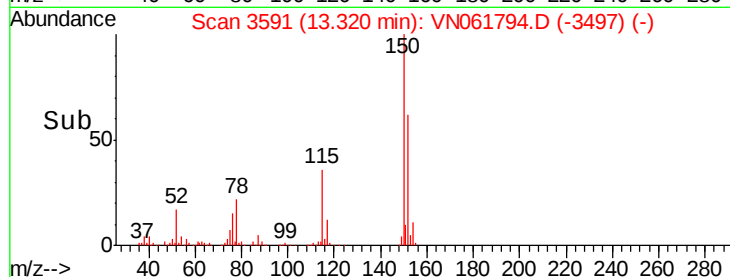
150 157.9 0.0 344.0



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: 25.826 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061794.D

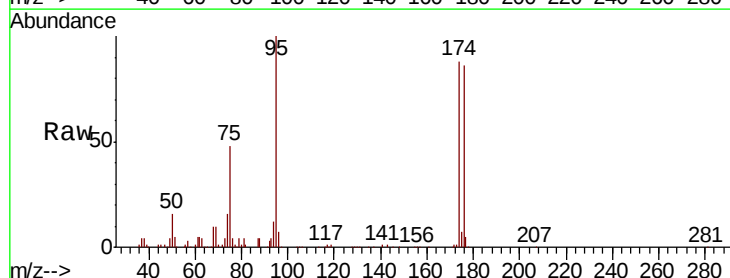
Acq: 12 Jun 2020 16:23

Tgt Ion: 75 Resp: 91710

Ion Ratio Lower Upper

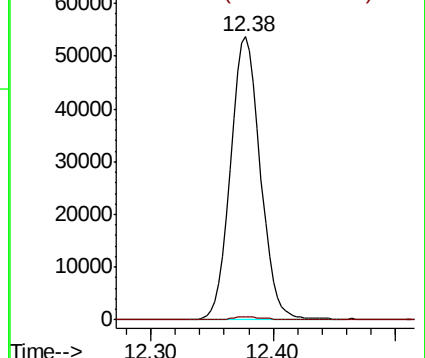
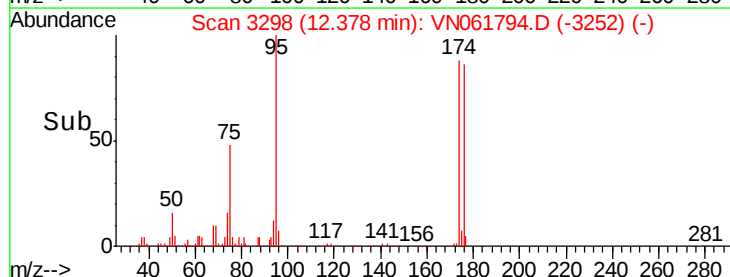
75 100

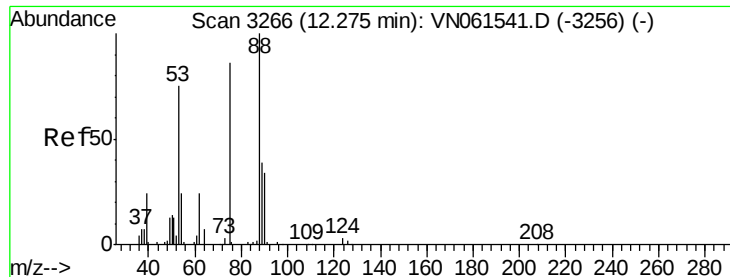
77 1.1 0.0 0.0#



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: 66.043 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061794.D

Acq: 12 Jun 2020 16:23

Instrument :

MSVOA_N

ClientSampleId :

RE105D1-20200609

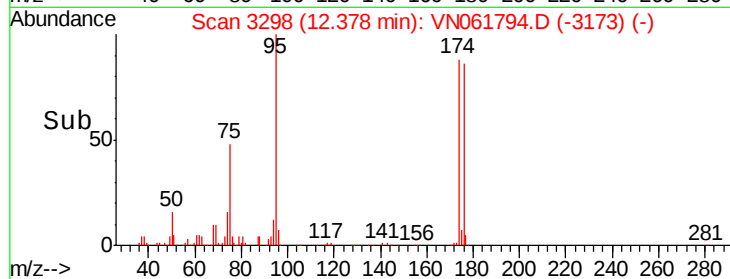
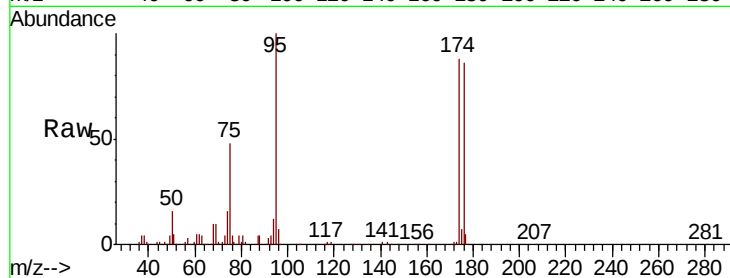
Tot Ion: 75 Resp: 91710

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

