

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059193.D
 Acq On : 12 Nov 2019 16:13
 Operator : JC/SP
 Sample : K5799-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 13 05:41:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	434237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	671844	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	583507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207987	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	279041	52.28	ug/l	0.00
Spiked Amount						
			Recovery	=	104.56%	
35) Dibromofluoromethane	7.57	113	209831	52.31	ug/l	0.00
Spiked Amount						
			Recovery	=	104.62%	
50) Toluene-d8	10.08	98	816168	51.65	ug/l	0.00
Spiked Amount						
			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	260809	45.78	ug/l	0.00
Spiked Amount						
			Recovery	=	91.56%	

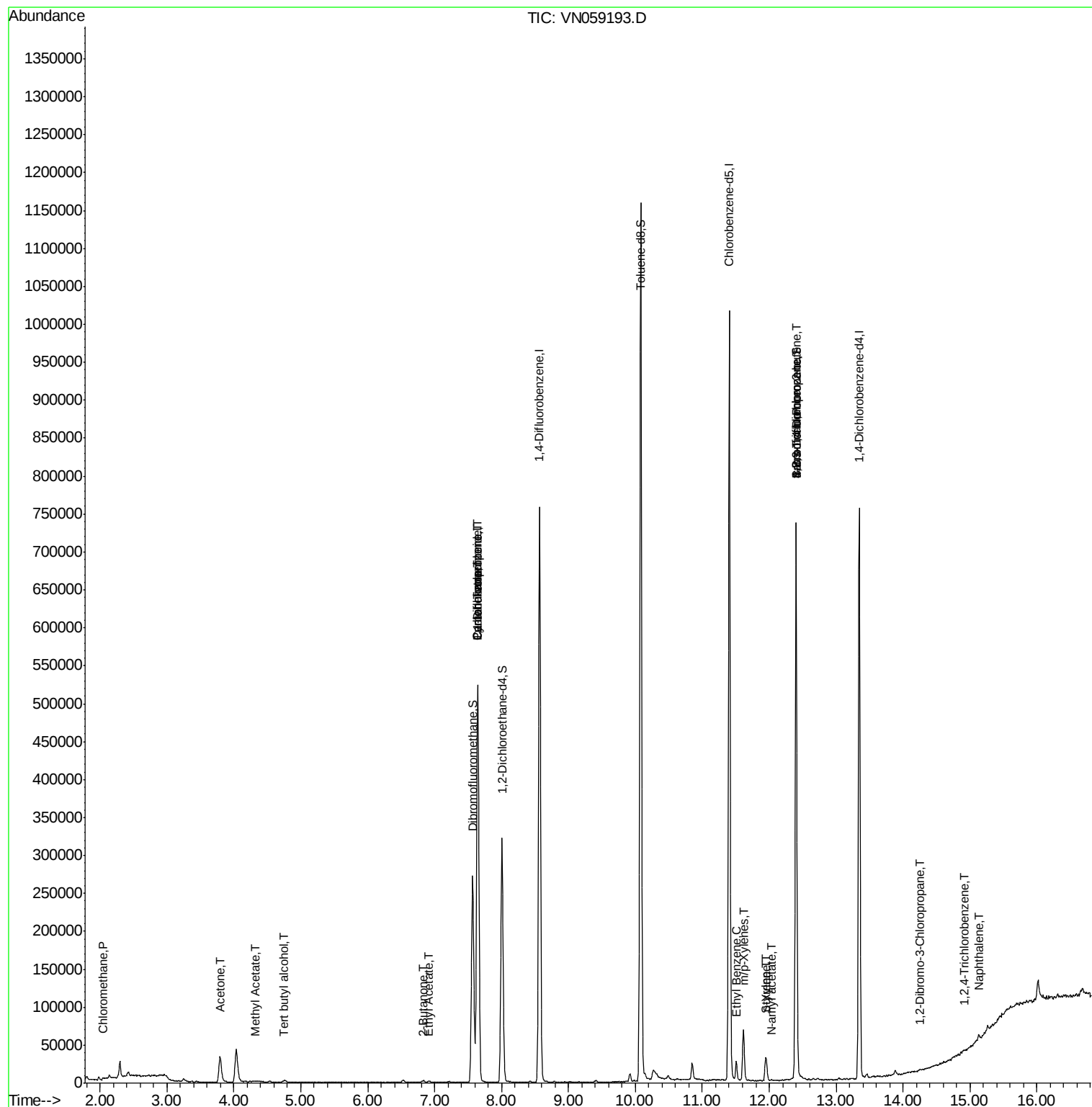
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1200	0.202	ug/l #	68
11) Tert butyl alcohol	4.75	59	2624	2.579	ug/l #	82
16) Acetone	3.80	43	58542	21.090	ug/l	98
18) Methyl Acetate	4.31	43	1430	0.217	ug/l	100
25) 2-Butanone	6.82	43	2102	0.575	ug/l	96
31) Cyclohexane	7.64	56	8826	1.062	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	33586	5.348	ug/l #	49
37) Ethyl Acetate	6.92	43	2779	0.398	ug/l #	75
38) Carbon Tetrachloride	7.64	117	41318	6.610	ug/l #	17
67) Ethyl Benzene	11.51	91	17497	0.867	ug/l	98
68) m/p-Xylenes	11.62	106	20054	2.653	ug/l	97
69) o-Xylene	11.95	106	7588	1.039	ug/l	96
70) Styrene	11.96	104	7365	0.641	ug/l	96
71) Bromoform	12.40	173	1320	0.398	ug/l #	1
74) N-amyl acetate	12.04	43	1814	0.283	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	131240	27.716	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131240	73.206	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.27	75	214	0.234	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.90	180	96	3.070	ug/l #	25
95) Naphthalene	15.13	128	5258	3.503	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059193.D

Acq: 12 Nov 2019 16:13

Instrument :

MSVOA_N

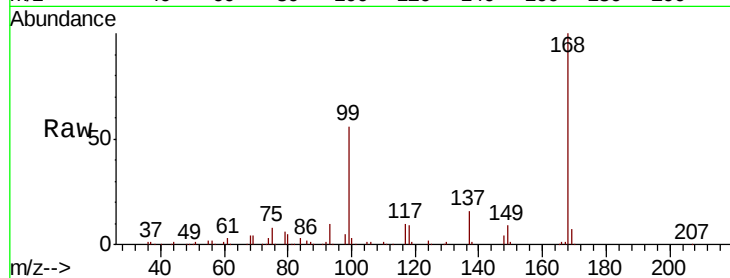
ClientSampled :

Tot Ion:168 Resp: 434237

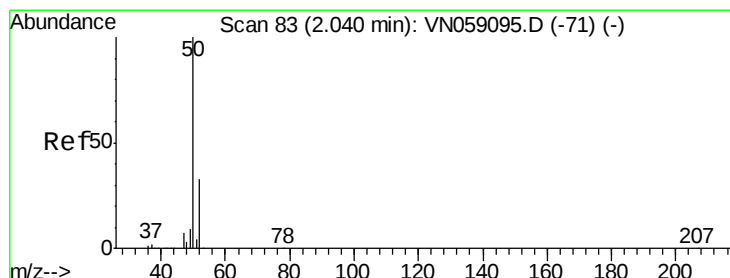
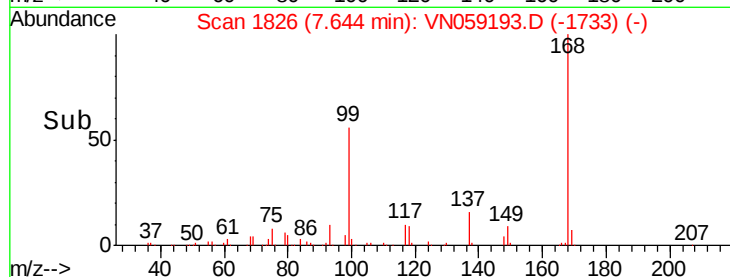
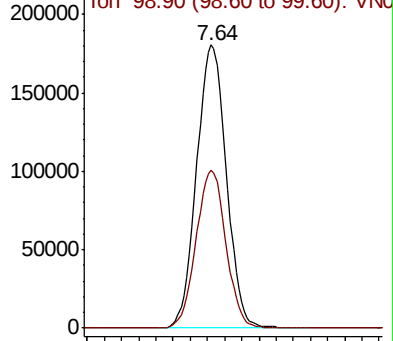
Ion Ratio Lower Upper

168 100

99 55.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059193.D (-1733) (-)



#3

Chloromethane

Concen: 0.202 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059193.D

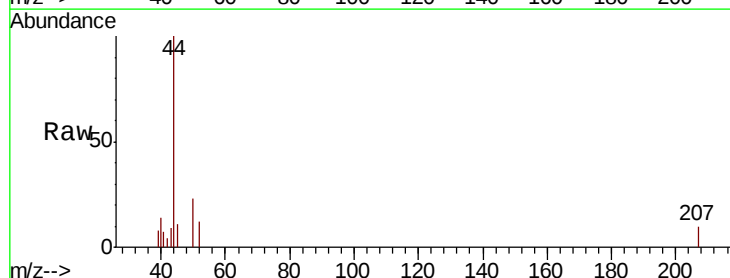
Acq: 12 Nov 2019 16:13

Tgt Ion: 50 Resp: 1200

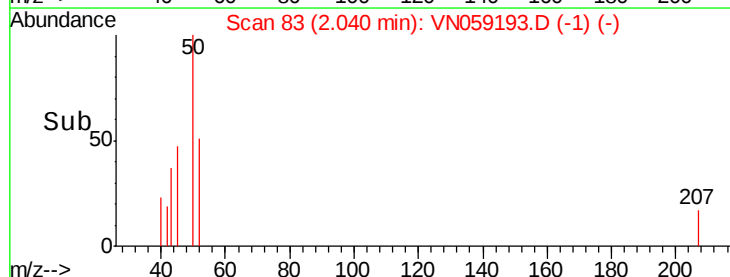
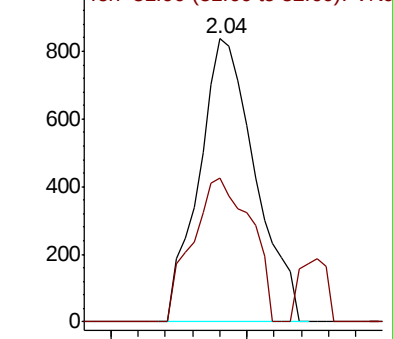
Ion Ratio Lower Upper

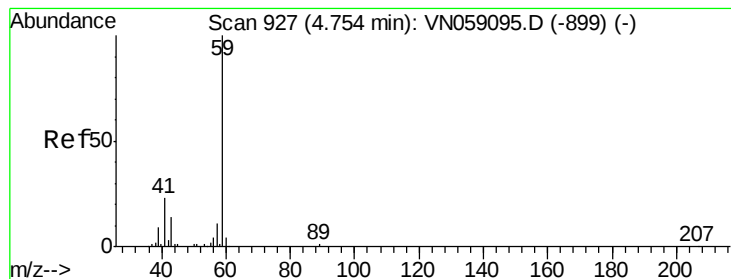
50 100

52 50.7 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN059193.D (-1) (-)



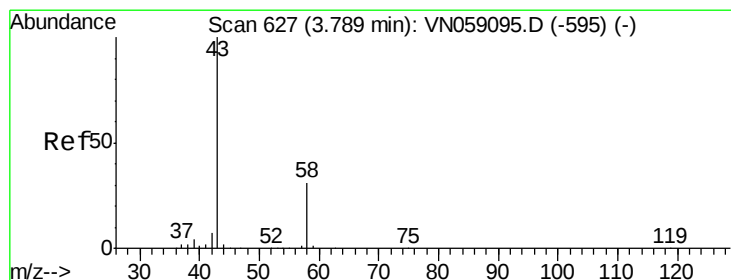
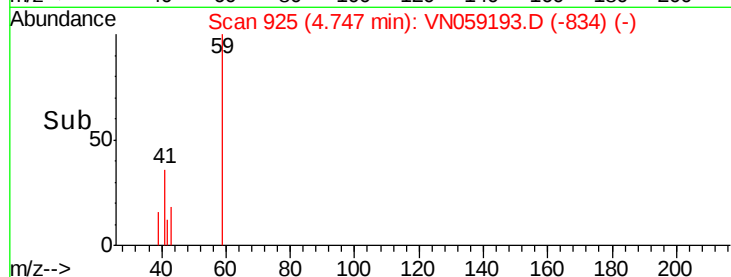
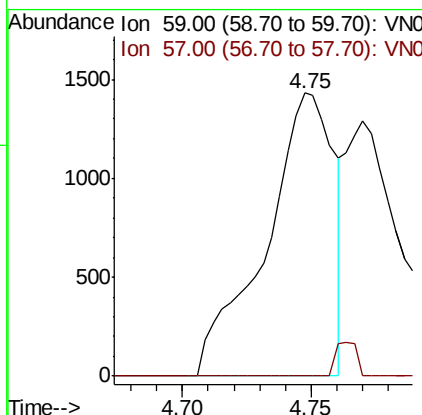
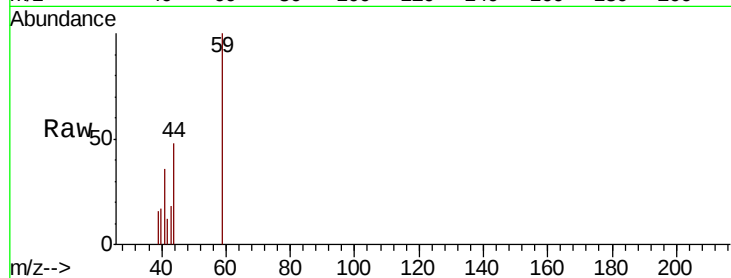


#11

Tert butyl alcohol
 Concen: 2.579 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Instrument :
 MSVOA_N
 ClientSampled :

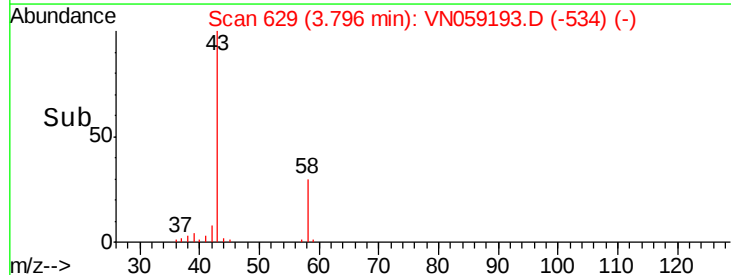
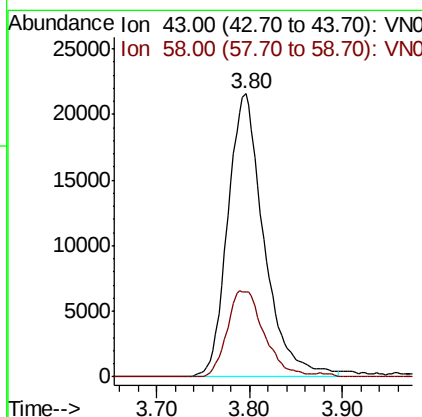
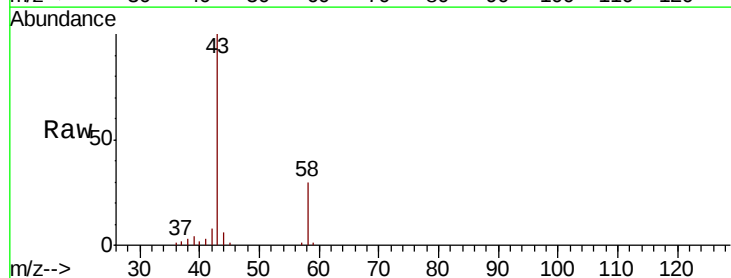
Tot Ion: 59 Resp: 2624
 Ion Ratio Lower Upper
 59 100
 57 3.7 8.3 12.5#

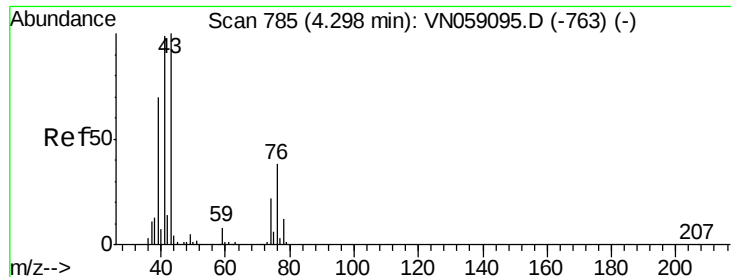


#16

Acetone
 Concen: 21.090 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Tgt Ion: 43 Resp: 58542
 Ion Ratio Lower Upper
 43 100
 58 29.8 24.9 37.3

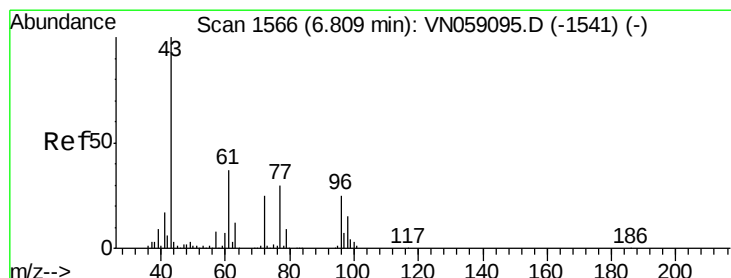
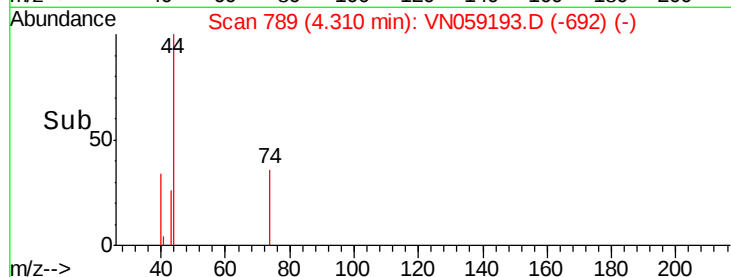
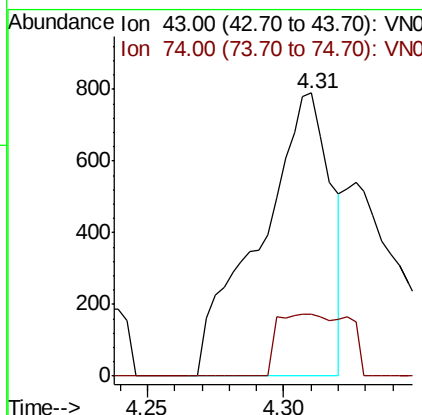
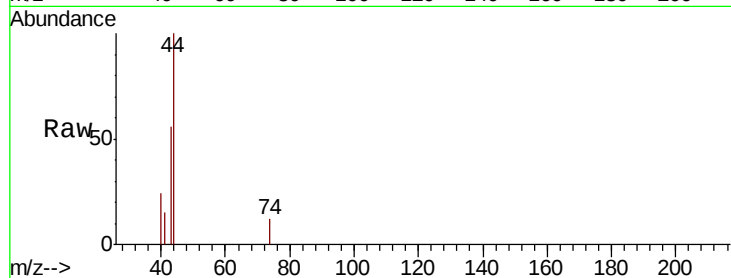




#18
Methyl Acetate
Concen: 0.217 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

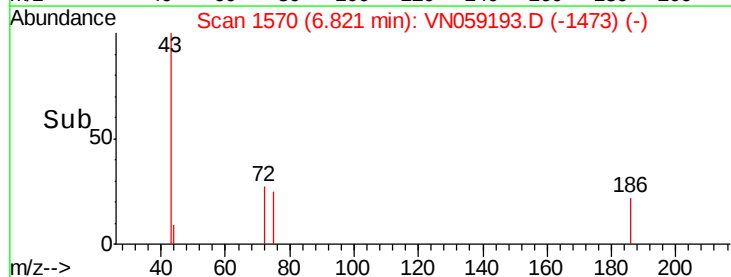
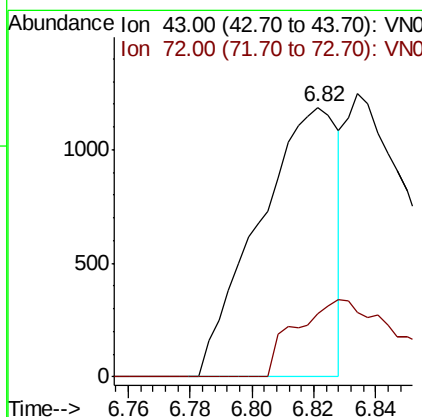
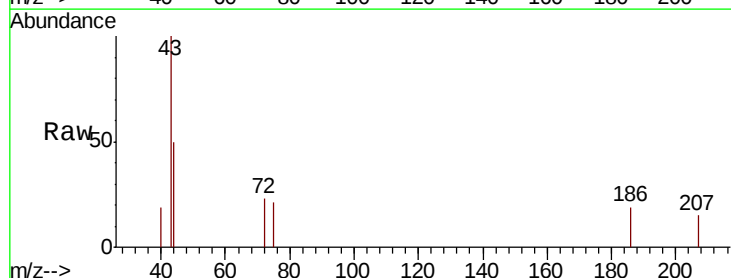
Instrument :
MSVOA_N
ClientSampled :

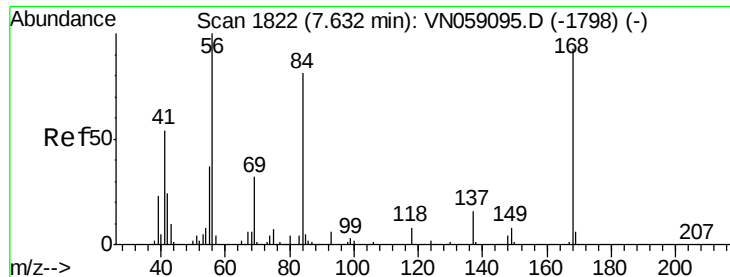
Tot Ion: 43 Resp: 1430
Ion Ratio Lower Upper
43 100
74 22.1 17.8 26.8



#25
2-Butanone
Concen: 0.575 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion: 43 Resp: 2102
Ion Ratio Lower Upper
43 100
72 23.3 20.3 30.5

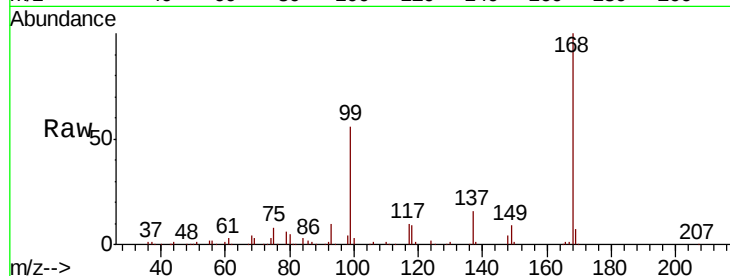




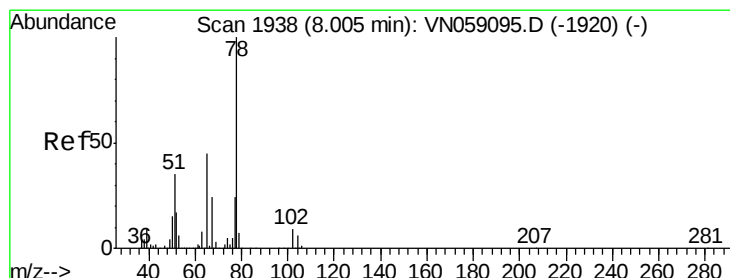
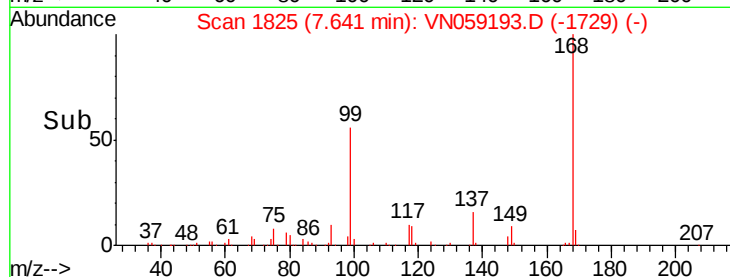
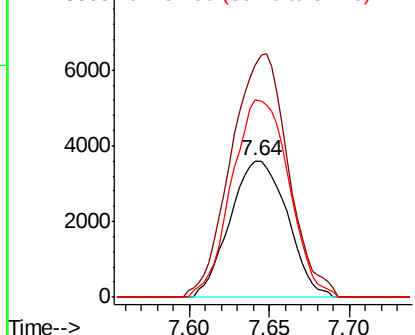
#31
Cyclohexane
Concen: 1.062 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 8826
Ion Ratio Lower Upper
56 100
69 170.8 25.8 38.8#
84 145.3 65.0 97.4#

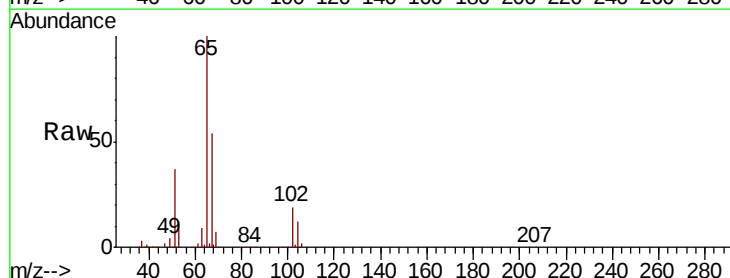


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

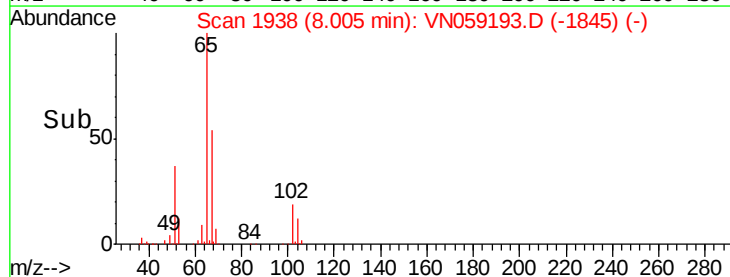
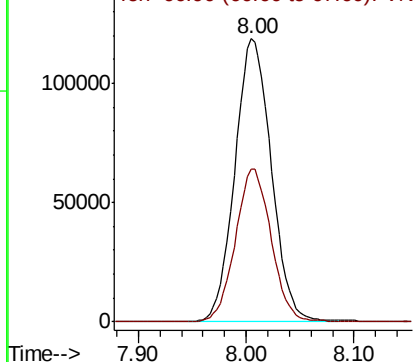


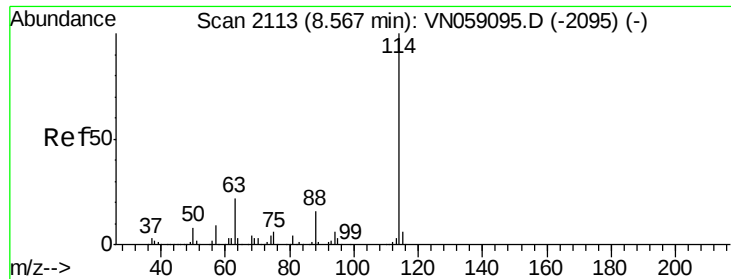
#33
1,2-Dichloroethane-d4
Concen: 52.275 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion: 65 Resp: 279041
Ion Ratio Lower Upper
65 100
67 53.2 0.0 107.4



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

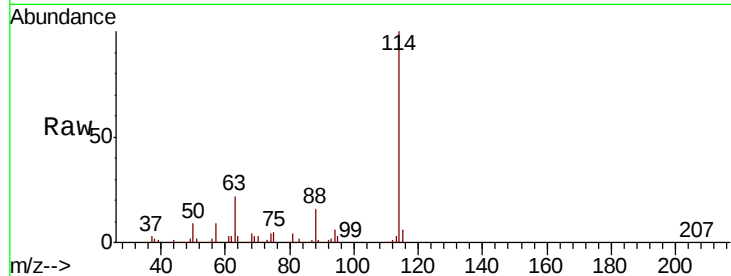




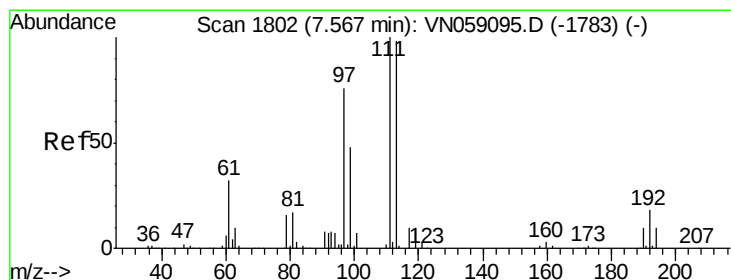
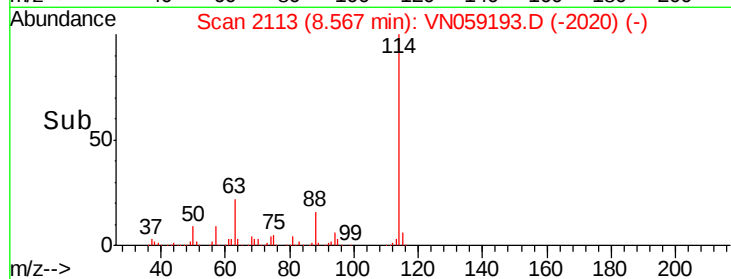
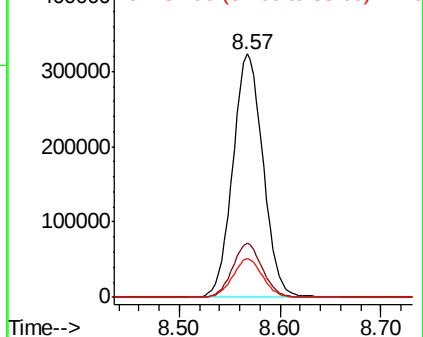
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.4
88	15.9	0.0	32.2

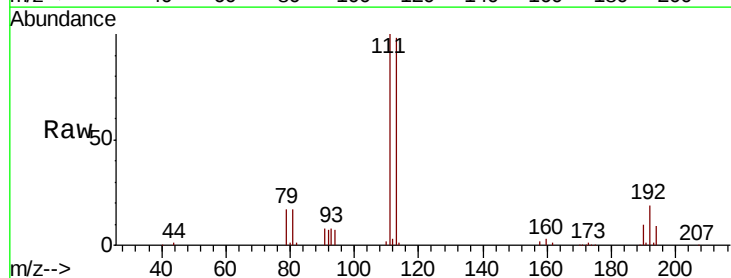


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

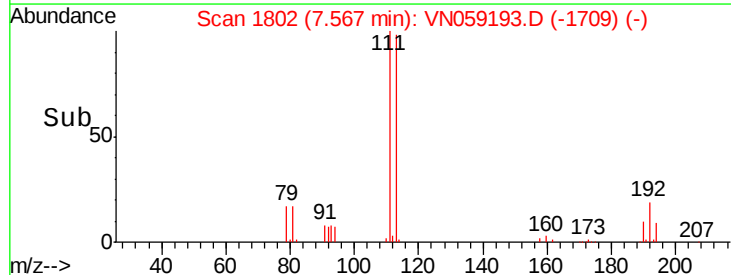
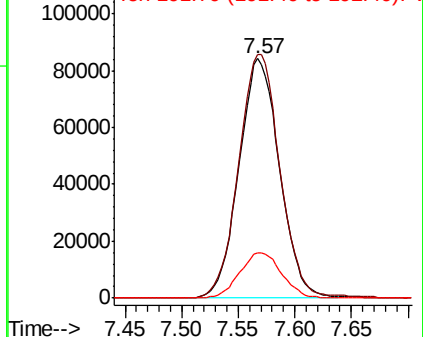


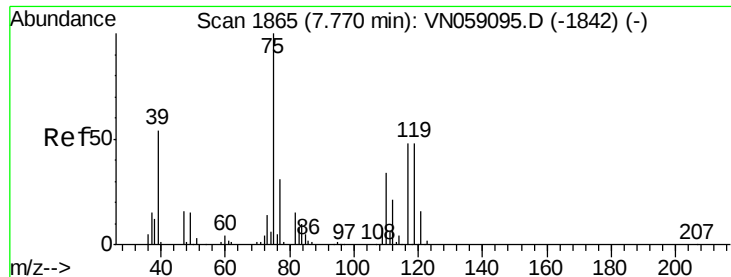
#35
 Dibromofluoromethane
 Concen: 52.307 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.8	124.2
192	19.6	16.1	24.1



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

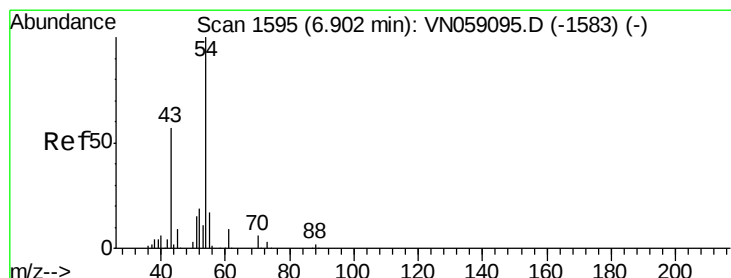
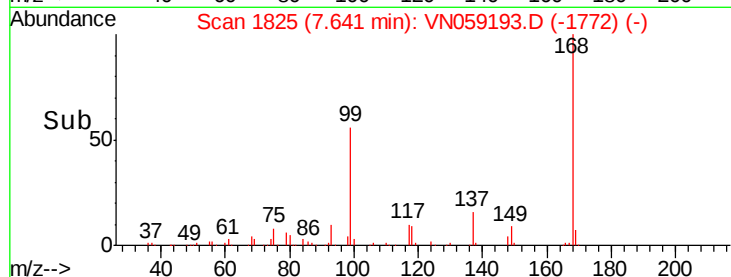
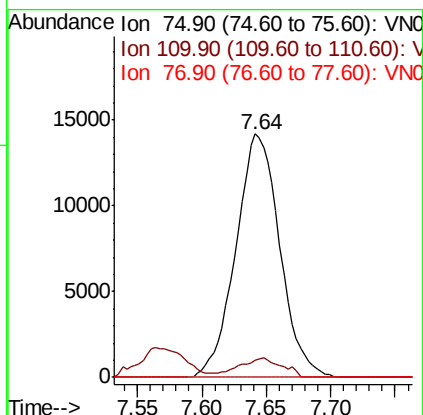
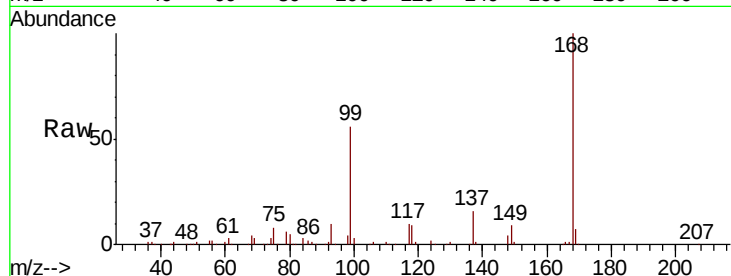




#36
 1,1-Dichloropropene
 Concen: 5.348 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

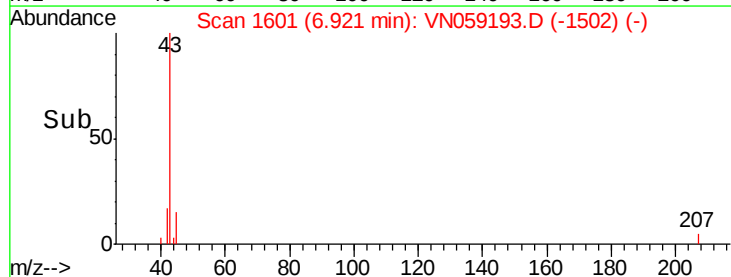
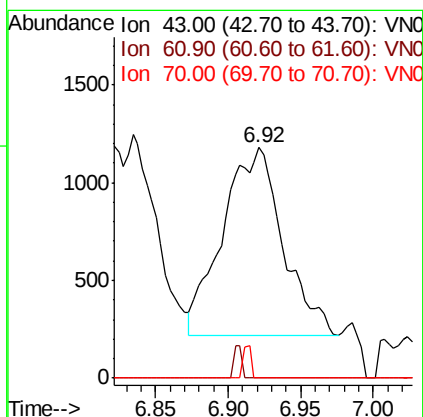
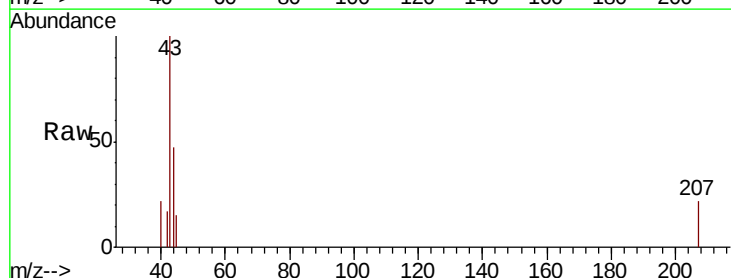
Instrument :
 MSVOA_N
 ClientSampled :

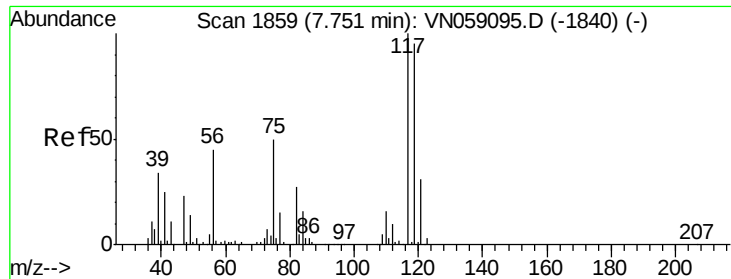
Tot Ion: 75 Resp: 33586
 Ion Ratio Lower Upper
 75 100
 110 7.9 17.1 51.2#
 77 0.0 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 0.398 ug/l
 RT: 6.92 min Scan# 1601
 Delta R.T. 0.02 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Tgt Ion: 43 Resp: 2779
 Ion Ratio Lower Upper
 43 100
 61 2.3 11.2 16.8#
 70 2.3 7.8 11.8#

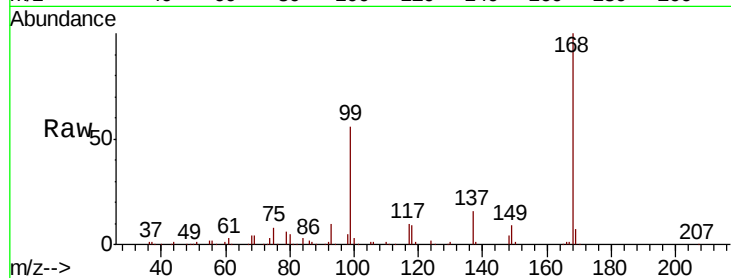




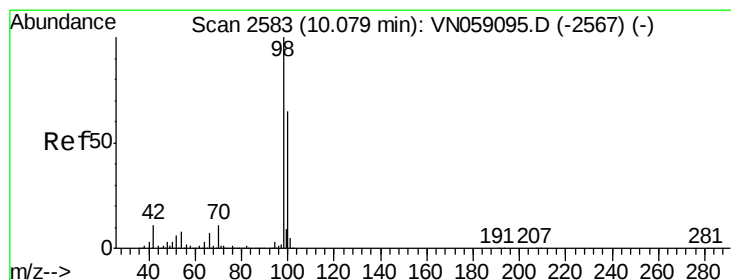
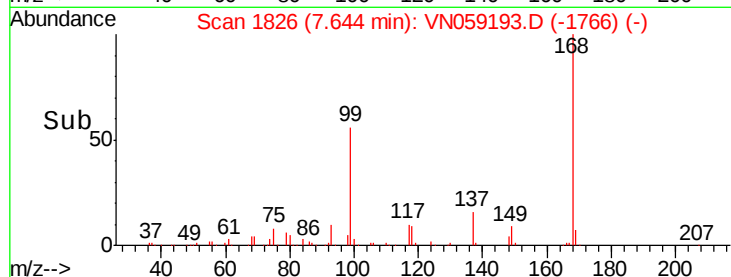
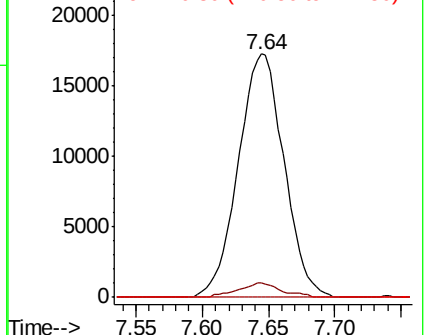
#38
Carbon Tetrachloride
Concen: 6.610 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 41318
Ion Ratio Lower Upper
117 100
119 6.0 75.6 113.4#
121 0.0 24.6 36.8#

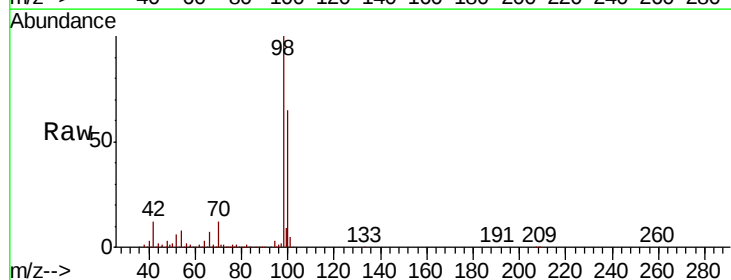


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

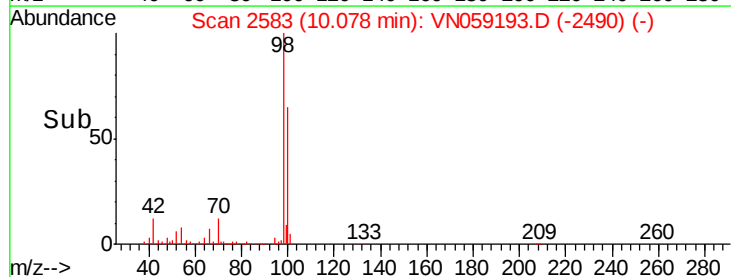
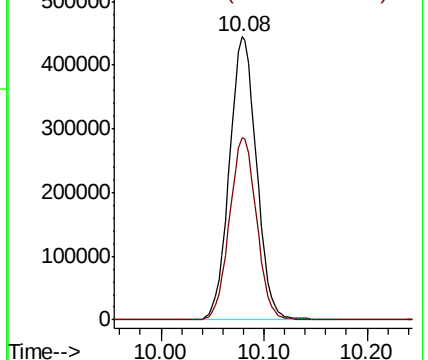


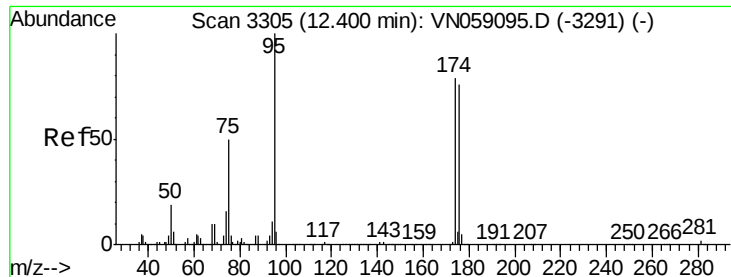
#50
Toluene-d8
Concen: 51.652 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion: 98 Resp: 816168
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

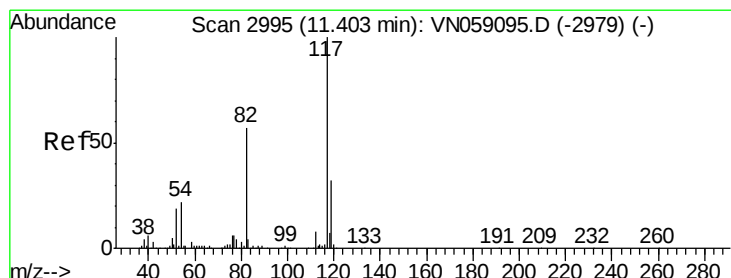
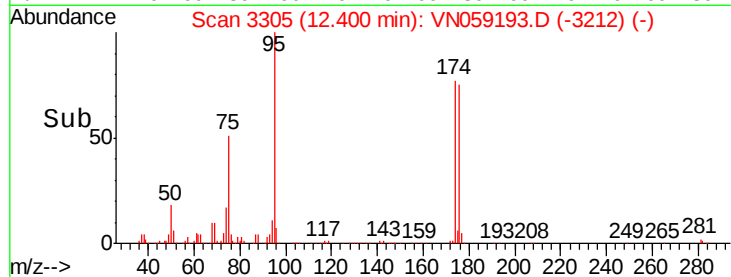
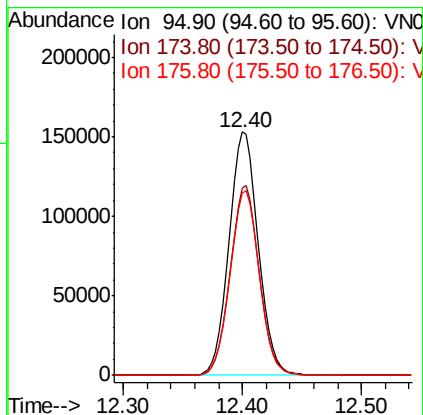
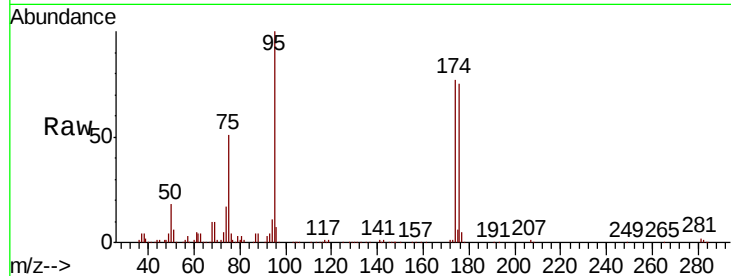




#62
4-Bromofluorobenzene
Concen: 45.778 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

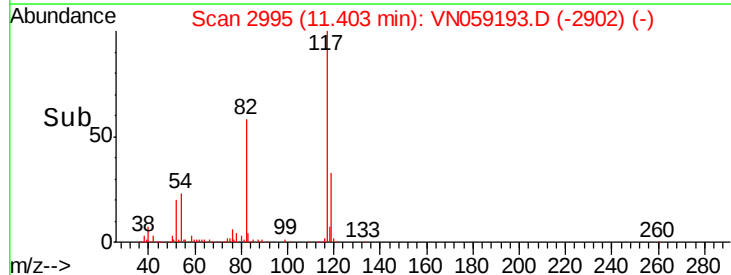
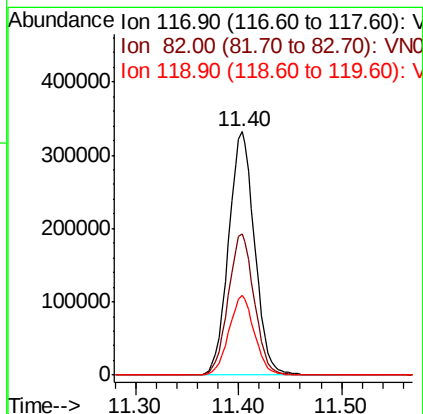
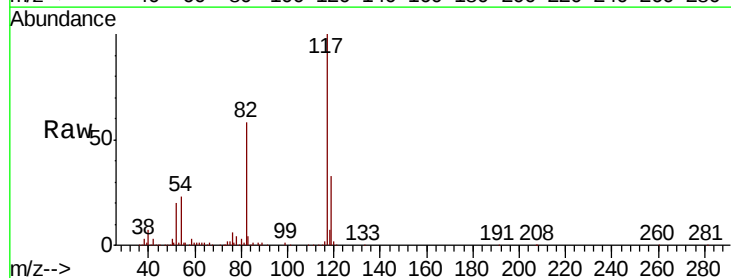
Instrument :
MSVOA_N
ClientSampled :

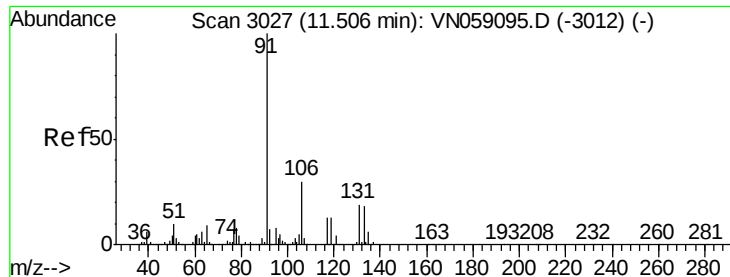
Tot Ion: 95 Resp: 260809
Ion Ratio Lower Upper
95 100
174 77.5 0.0 158.2
176 75.9 0.0 151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion: 117 Resp: 583507
Ion Ratio Lower Upper
117 100
82 58.1 45.8 68.8
119 32.7 25.8 38.6

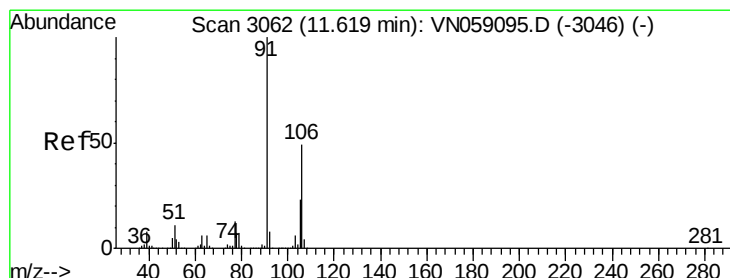
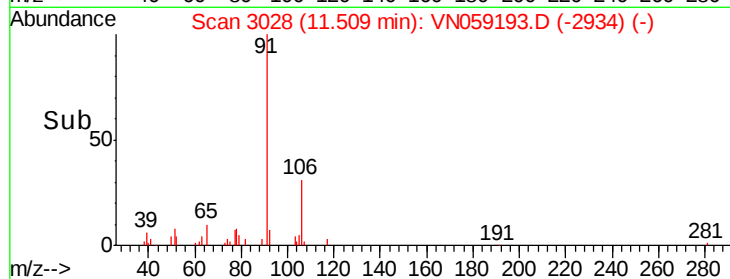
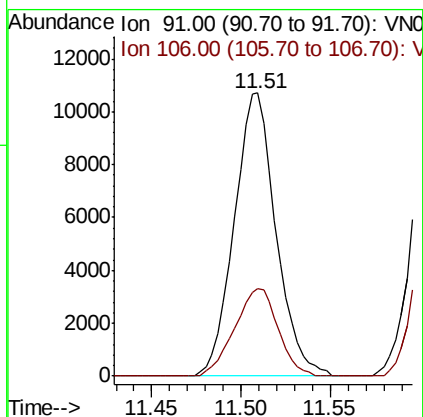
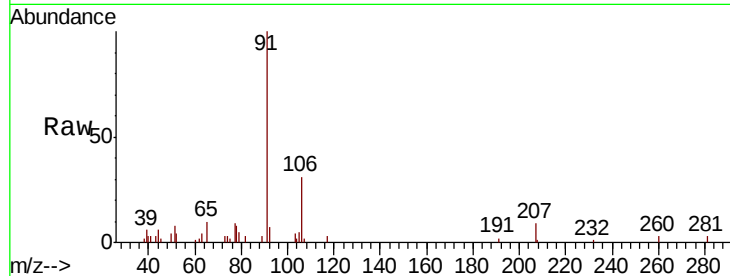




#67
Ethyl Benzene
Concen: 0.867 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

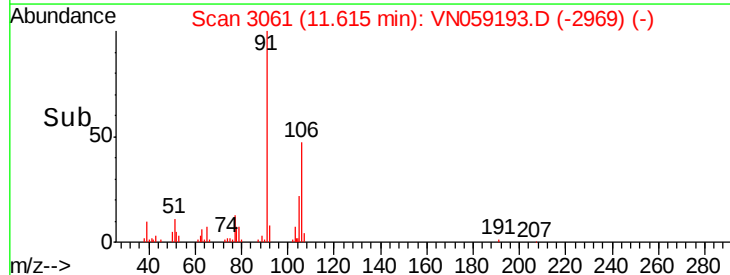
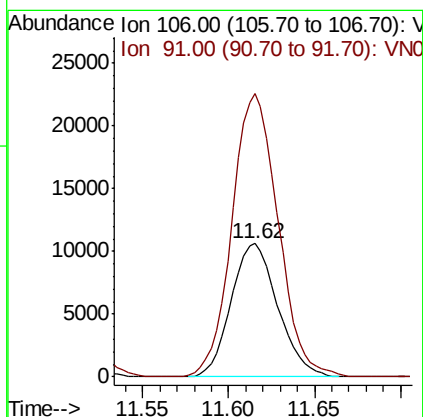
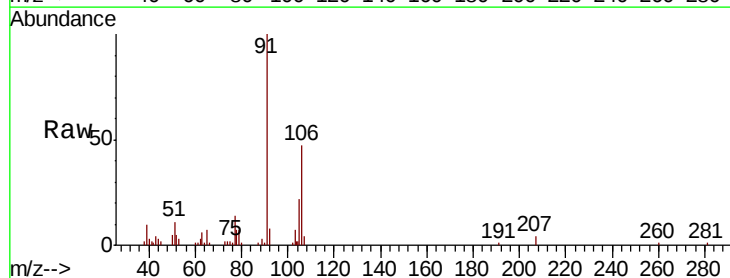
Instrument :
MSVOA_N
ClientSampleId :

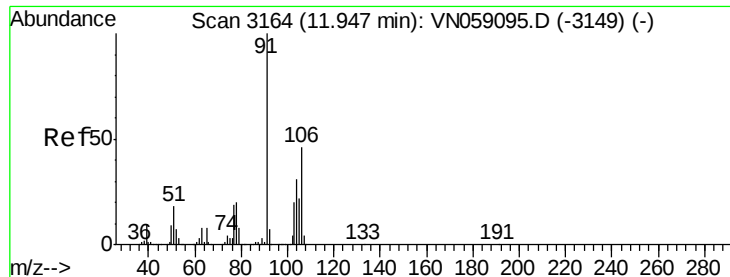
Tot Ion: 91 Resp: 17497
Ion Ratio Lower Upper
91 100
106 31.1 24.1 36.1



#68
m/p-Xylenes
Concen: 2.653 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion: 106 Resp: 20054
Ion Ratio Lower Upper
106 100
91 210.5 164.7 247.1

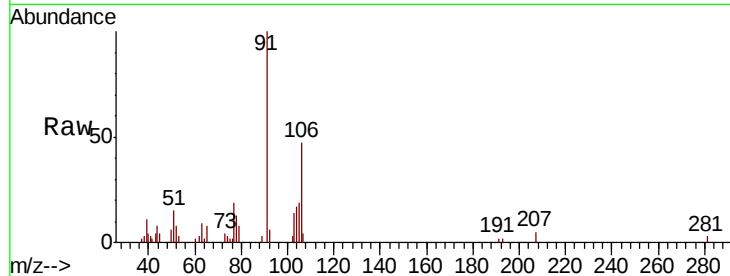




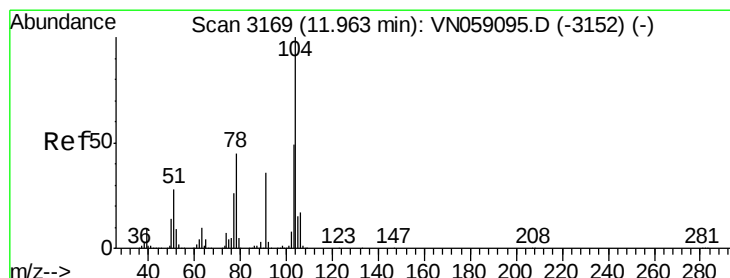
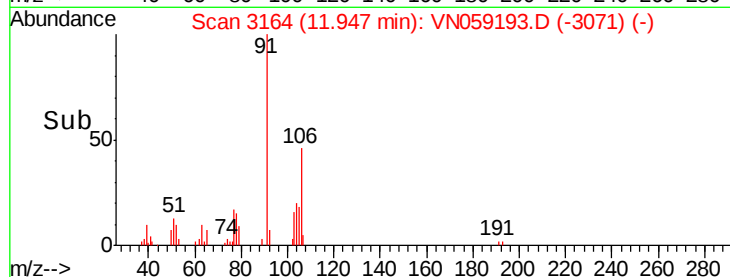
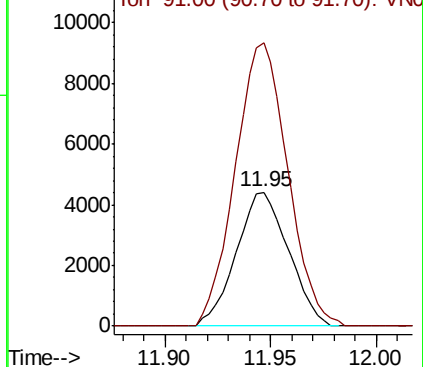
#69
o-Xylene
Concen: 1.039 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 7588
Ion Ratio Lower Upper
106 100
91 213.0 110.1 330.3

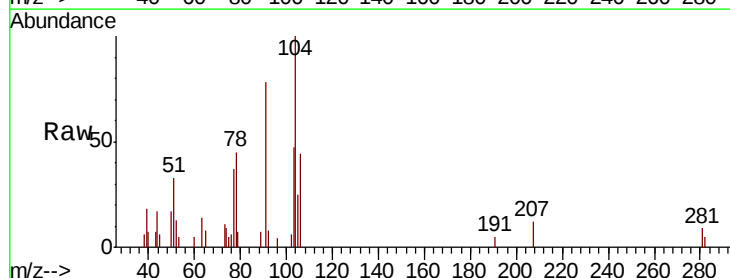


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

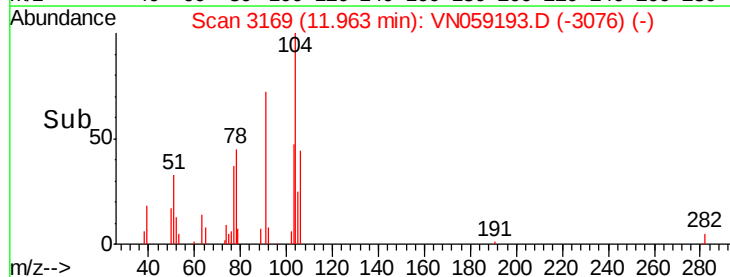
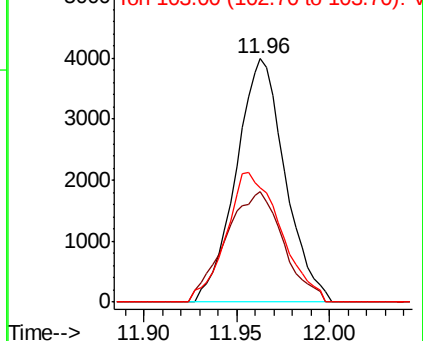


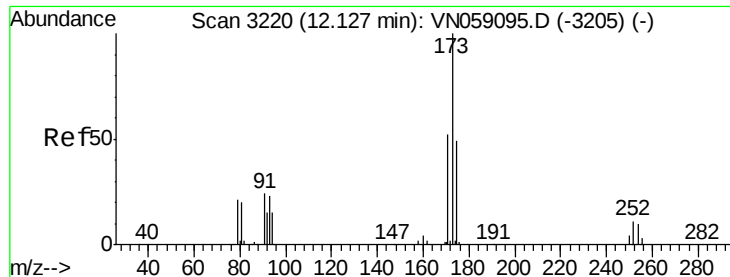
#70
Styrene
Concen: 0.641 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion:104 Resp: 7365
Ion Ratio Lower Upper
104 100
78 53.4 41.2 61.8
103 58.9 43.8 65.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

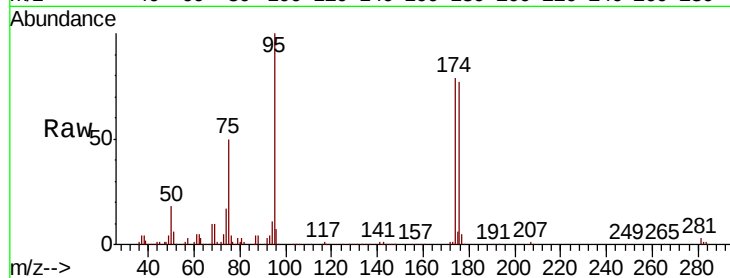




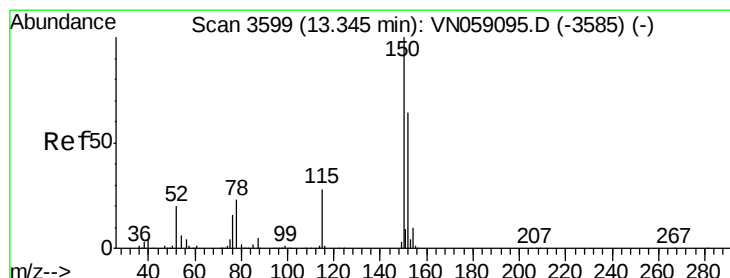
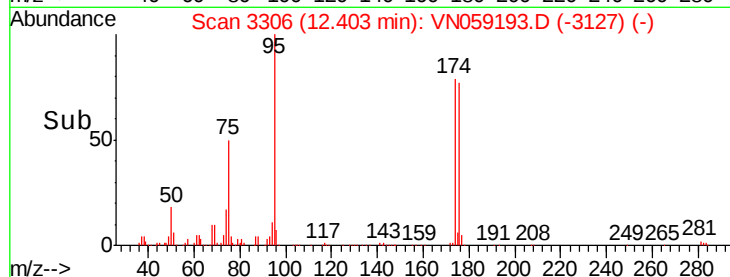
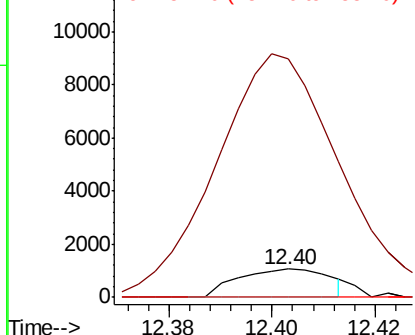
#71
Bromoform
Concen: 0.398 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 1320
Ion Ratio Lower Upper
173 100
175 1006.6 24.2 72.6#
254 0.0 0.1 0.1#

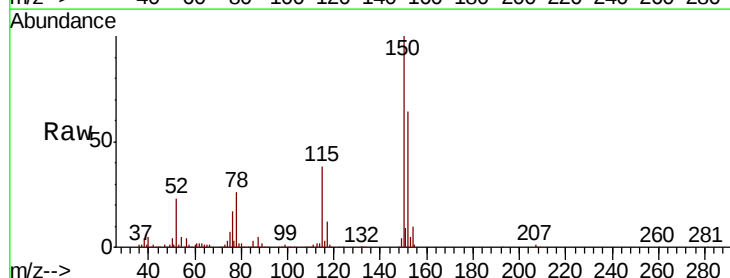


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

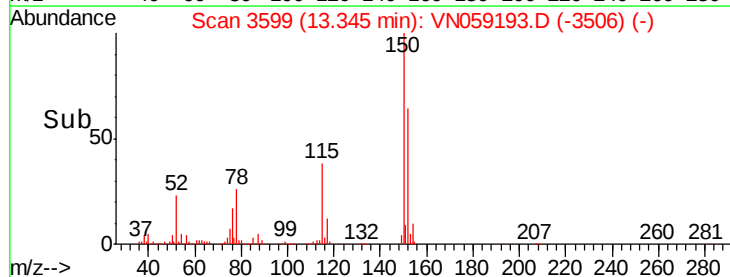
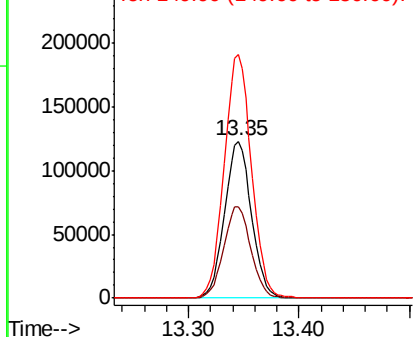


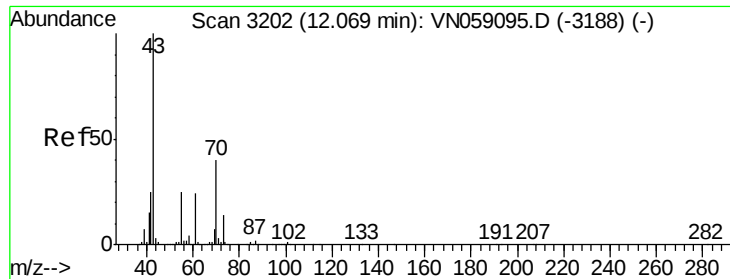
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion:152 Resp: 207987
Ion Ratio Lower Upper
152 100
115 59.0 29.4 88.2
150 157.3 0.0 345.8



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

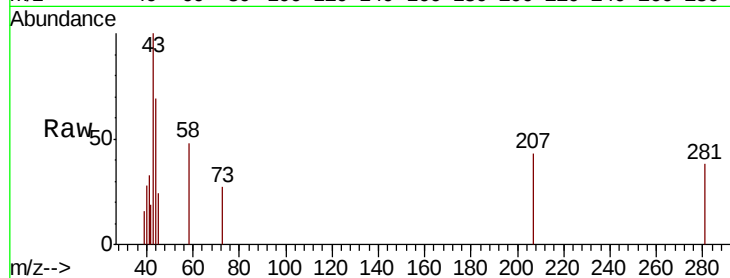




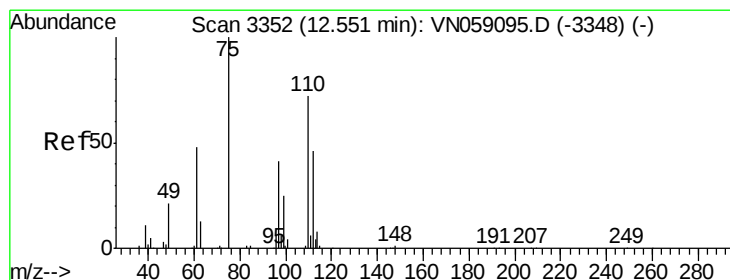
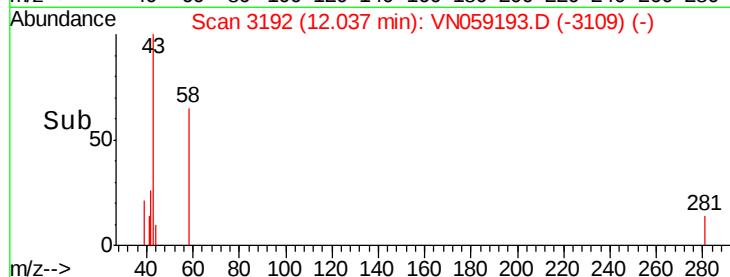
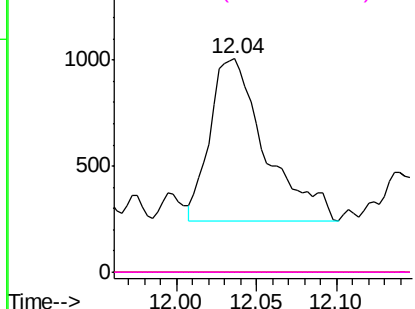
#74
N-amyl acetate
Concen: 0.283 ug/l
RT: 12.04 min Scan# 3192
Delta R.T. -0.03 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	43	Resp:	1814
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.4#
55	0.0	20.4	30.6#
61	0.0	19.3	28.9#

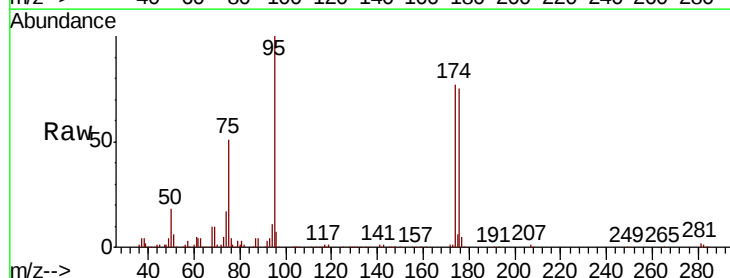


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 70.00 (69.70 to 70.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 61.00 (60.70 to 61.70): VN0

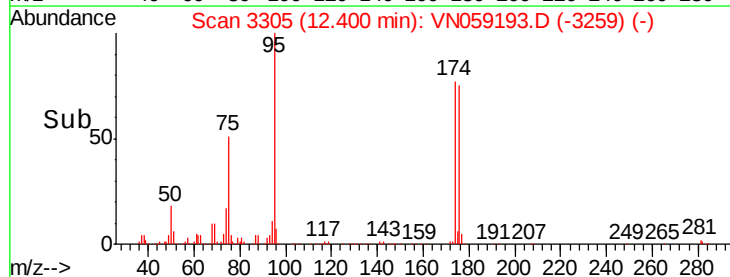
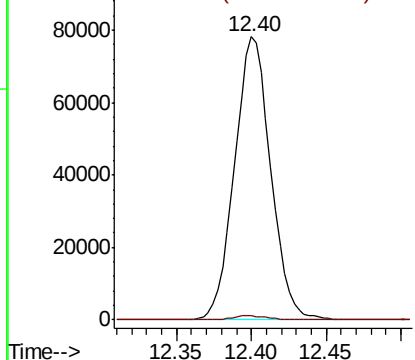


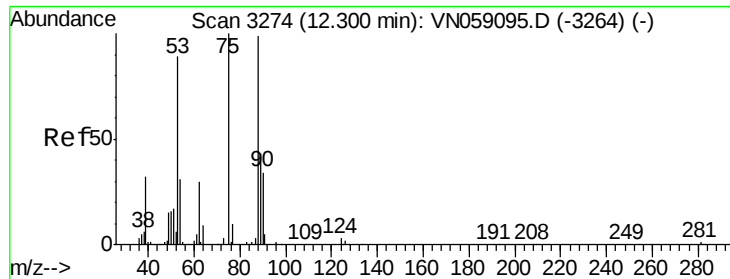
#76
1,2,3-Trichloropropane
Concen: 27.716 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059193.D
Acq: 12 Nov 2019 16:13

Tgt Ion:	75	Resp:	131240
Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.206 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059193.D

Acq: 12 Nov 2019 16:13

Instrument :

MSVOA_N

ClientSampled :

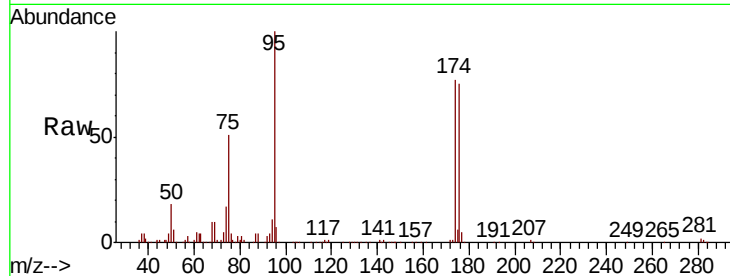
Tot Ion: 75 Resp: 131240

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

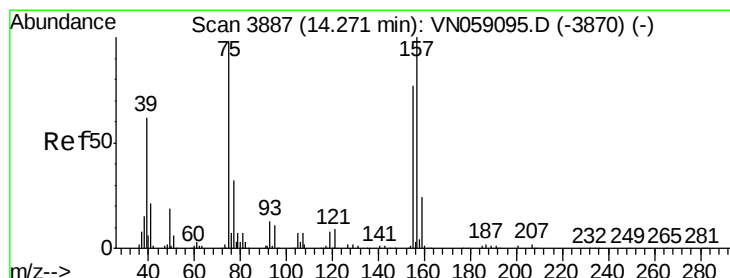
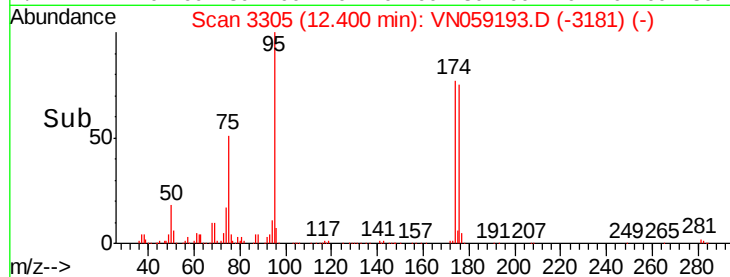
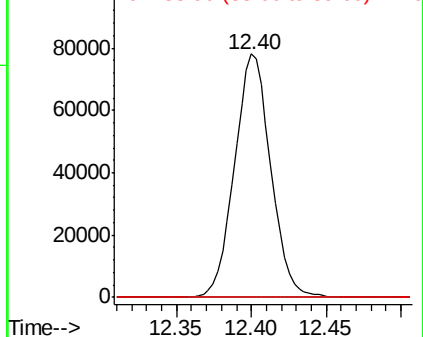
89 0.0 35.8 53.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.234 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059193.D

Acq: 12 Nov 2019 16:13

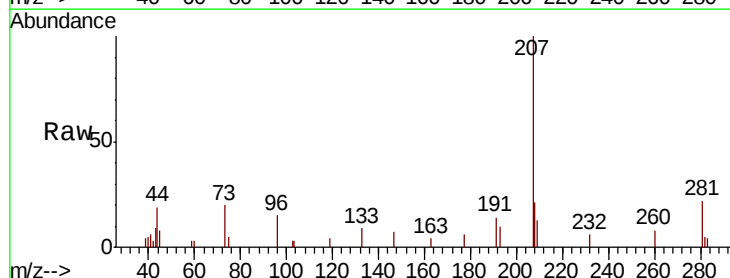
Tgt Ion: 75 Resp: 214

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

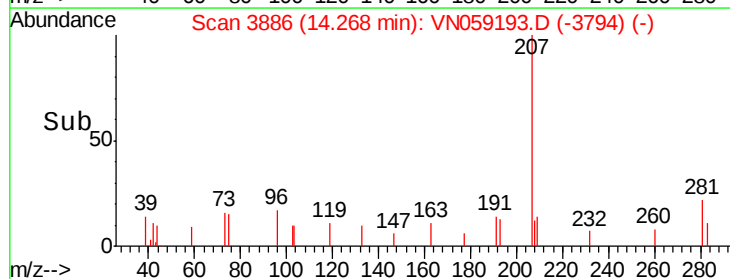
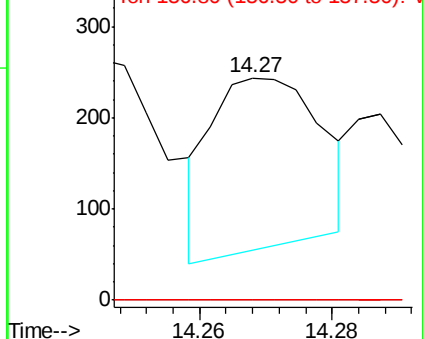
157 0.0 51.8 155.5#

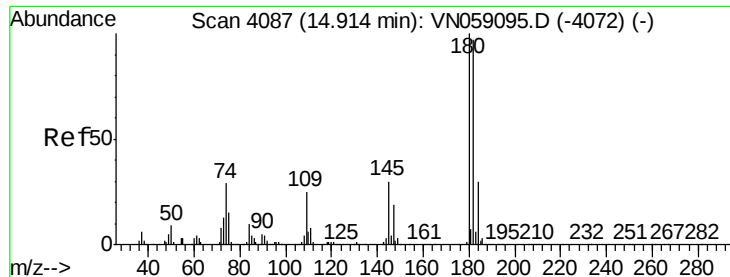


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

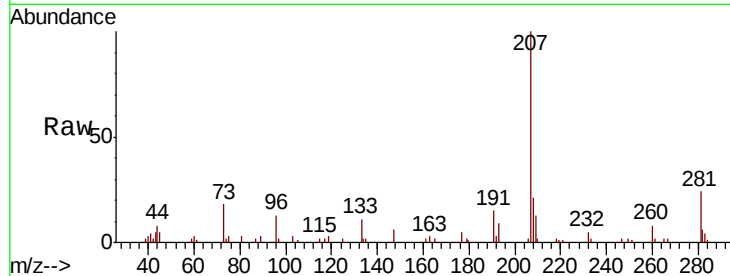




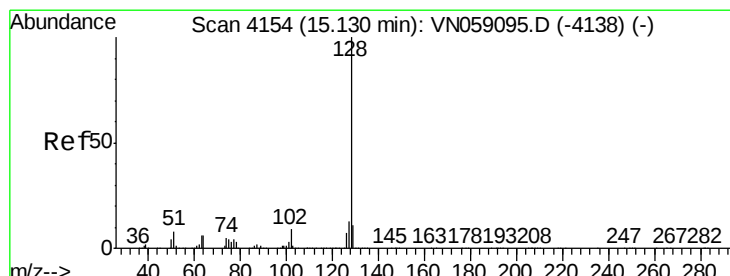
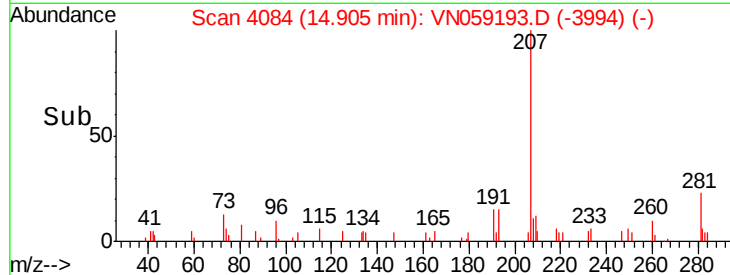
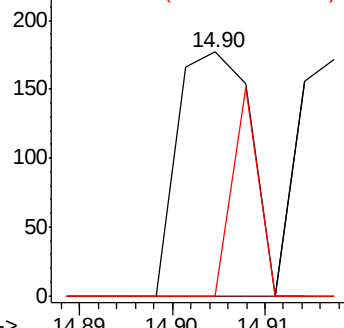
#93
 1,2,4-Trichlorobenzene
 Concen: 3.070 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.01 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	30.2	15.1	45.3

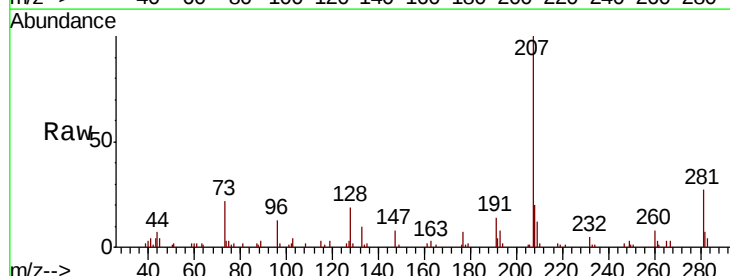


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.503 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059193.D
 Acq: 12 Nov 2019 16:13

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.2	15.2
129	11.2	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

