

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054799.D
 Acq On : 30 Mar 2019 13:46
 Operator : JC/SP
 Sample : K2185-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

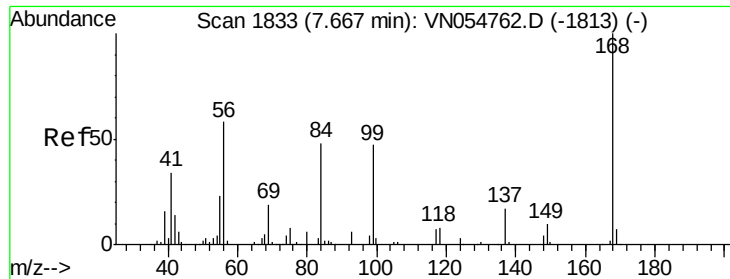
Quant Time: Mar 30 22:39:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	520294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	854651	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	710694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242662	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	350803	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	7.59	113	271634	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
50) Toluene-d8	10.09	98	1026338	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	12.40	95	305507	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	332	Below Cal	#	63
13) Acrolein	3.60	56	112	0.343	ug/l #	1
18) Methyl Acetate	4.33	43	1661	Below Cal	#	57
31) Cyclohexane	7.67	56	11740	Below Cal	#	3
36) 1,1-Dichloropropene	7.67	75	39424	4.950	ug/l #	47
38) Carbon Tetrachloride	7.67	117	48907	6.323	ug/l #	16
43) Isopropyl Acetate	8.26	43	3693	0.389	ug/l #	60
49) 1,4-Dioxane	8.99	88	29	0.568	ug/l #	1
71) Bromoform	12.40	173	2539	0.832	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	103	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	160784	38.140	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160784	148.356	ug/l #	11
83) tert-Butylbenzene	12.99	119	540	Below Cal	#	38

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054799.D

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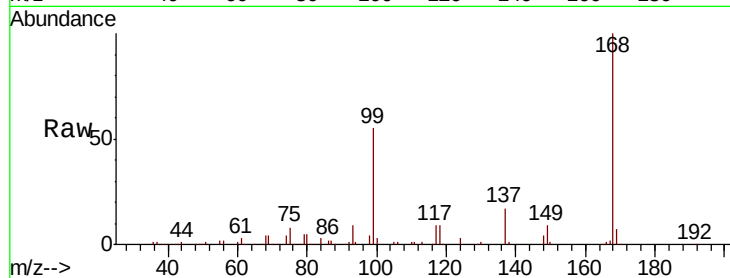
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 520294

Ion Ratio Lower Upper

168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

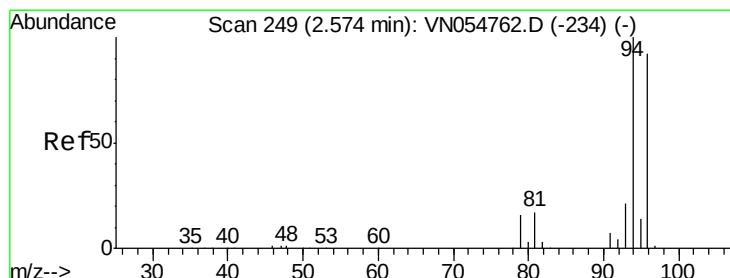
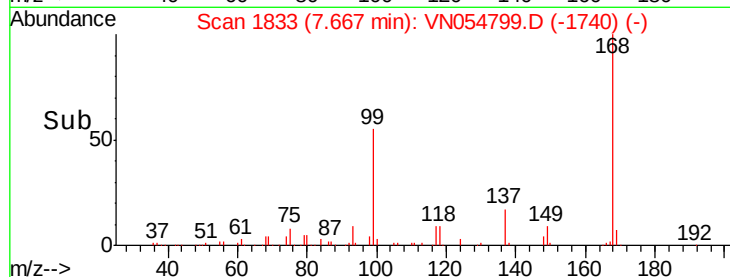
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054799.D

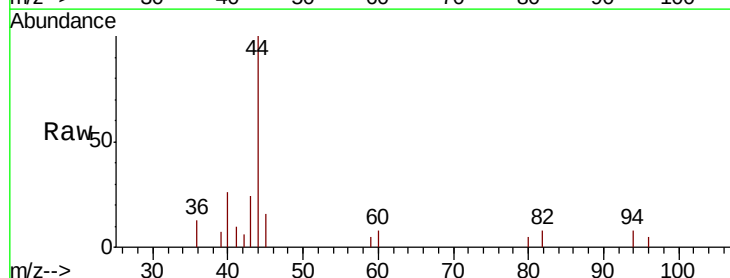
Acq: 30 Mar 2019 13:46

Tgt Ion: 94 Resp: 332

Ion Ratio Lower Upper

94 100

96 60.3 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

300

250

200

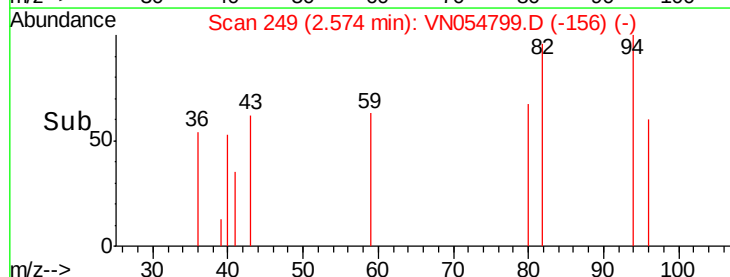
150

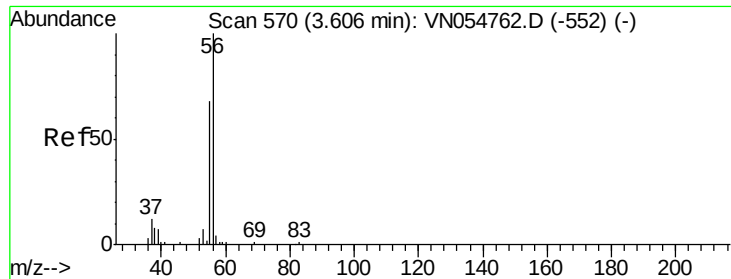
100

50

0

Time--> 2.56 2.58 2.60





#13

Acrolein

Concen: 0.343 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :

MSVOA_N

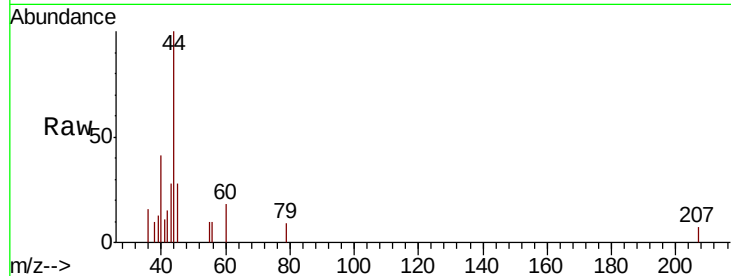
ClientSampled :

Tot Ion: 56 Resp: 112

Ion Ratio Lower Upper

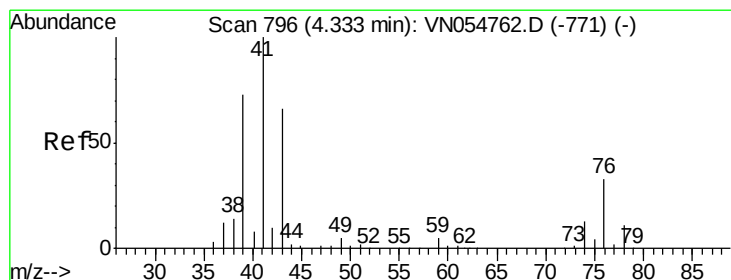
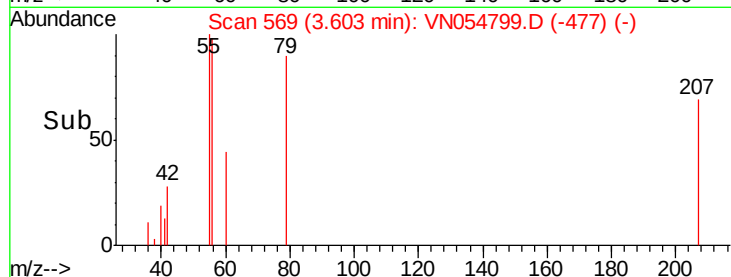
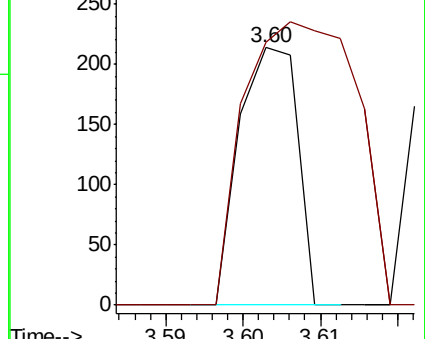
56 100

55 212.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054799.D

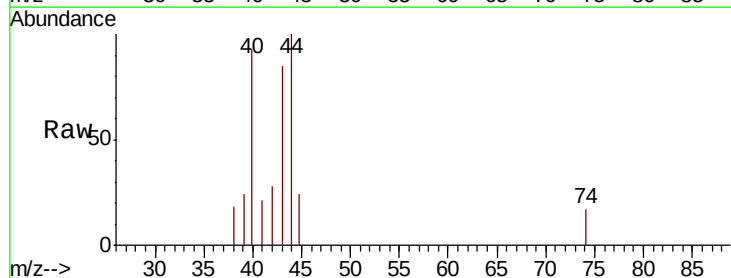
Acq: 30 Mar 2019 13:46

Tgt Ion: 43 Resp: 1661

Ion Ratio Lower Upper

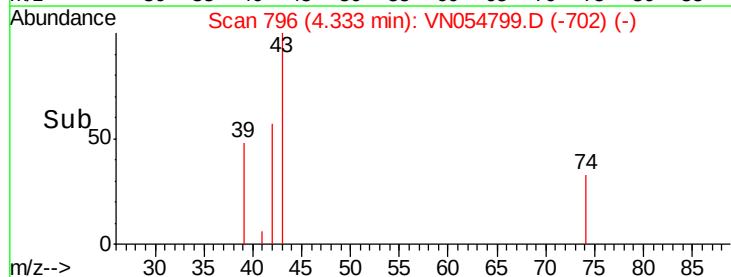
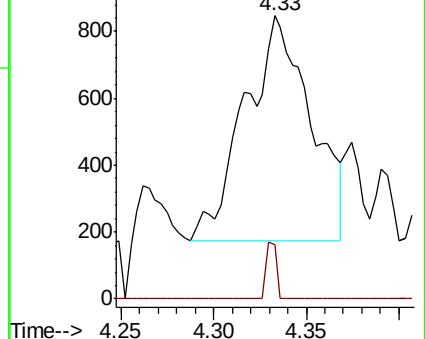
43 100

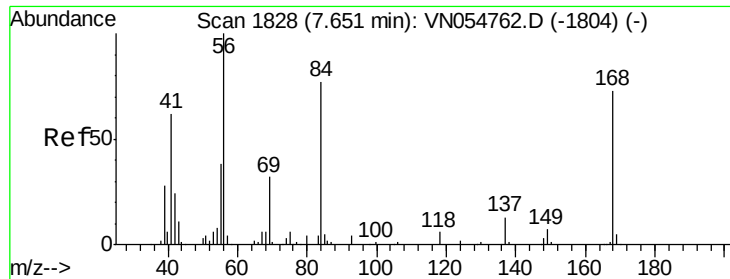
74 3.9 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :

MSVOA_N

ClientSampled :

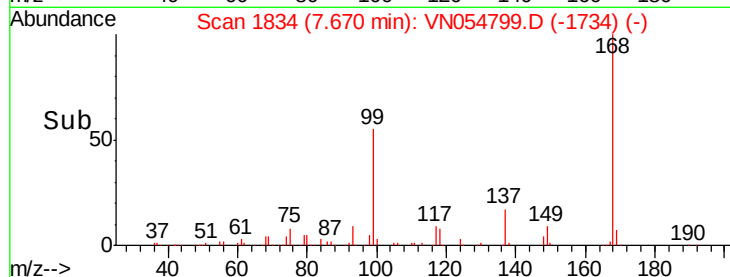
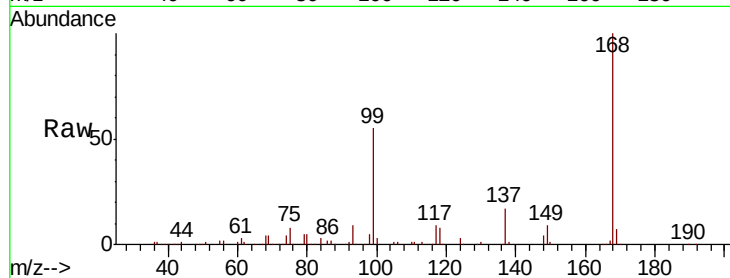
Tot Ion: 56 Resp: 11740

Ion Ratio Lower Upper

56 100

69 179.3 27.8 41.6#

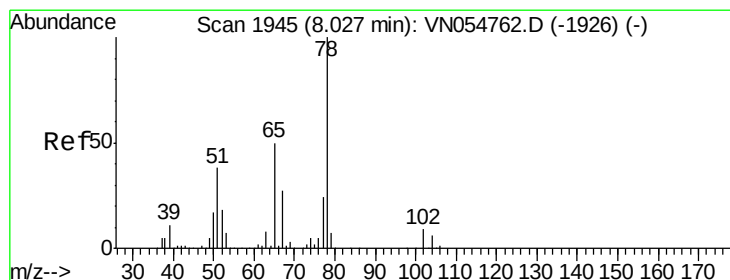
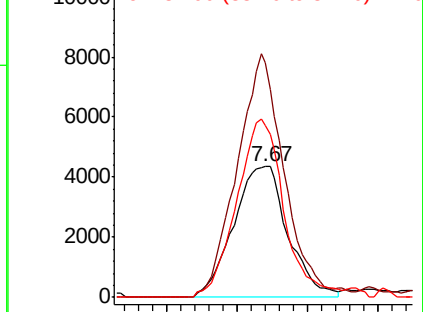
84 131.9 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.017 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054799.D

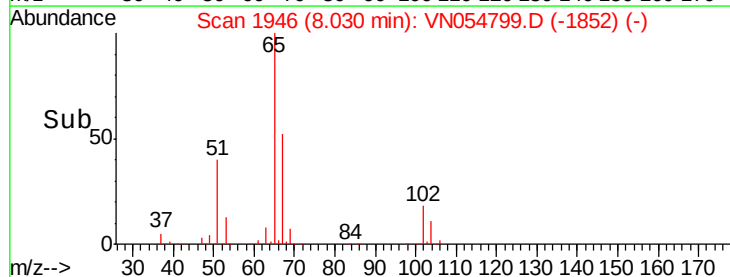
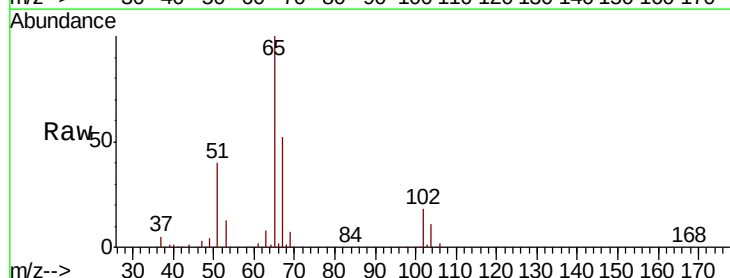
Acq: 30 Mar 2019 13:46

Tgt Ion: 65 Resp: 350803

Ion Ratio Lower Upper

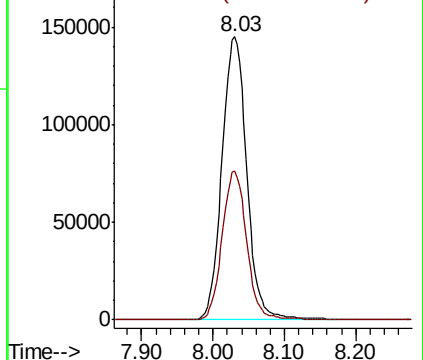
65 100

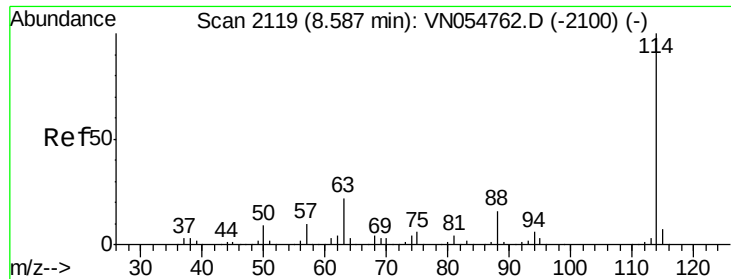
67 51.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

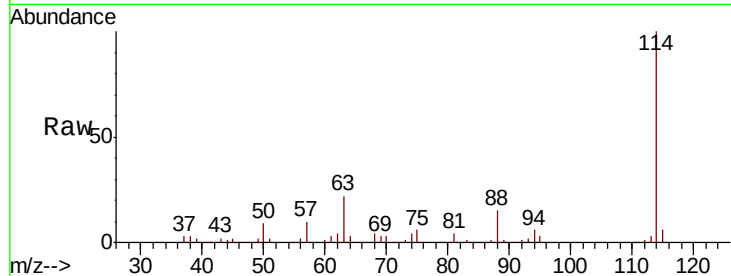




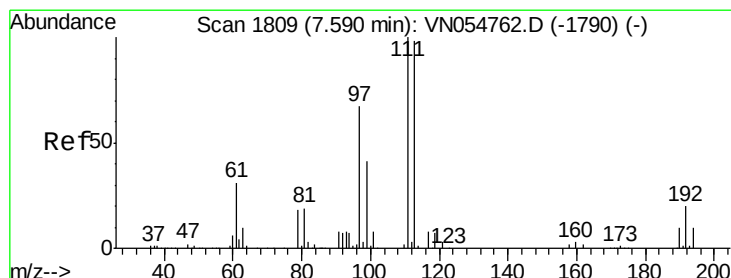
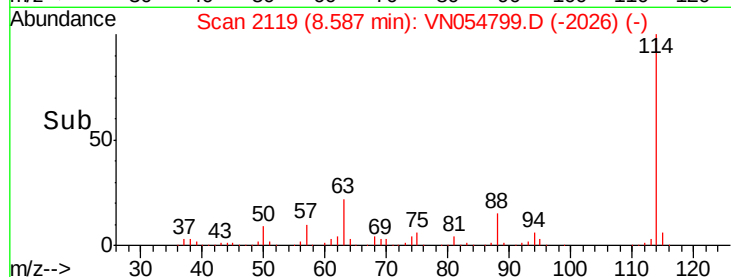
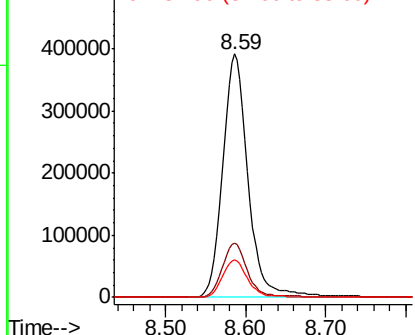
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054799.D
 Acq: 30 Mar 2019 13:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 854651
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.5 0.0 30.2

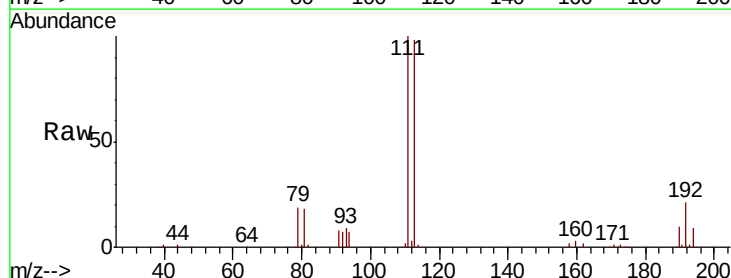


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

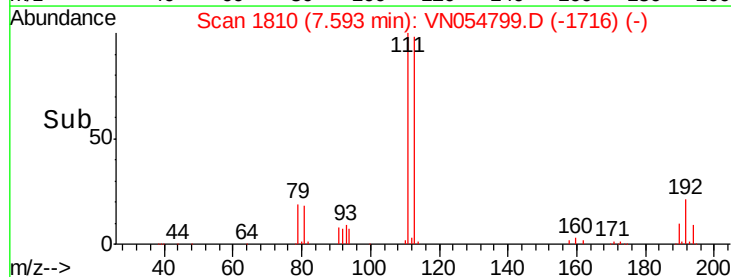
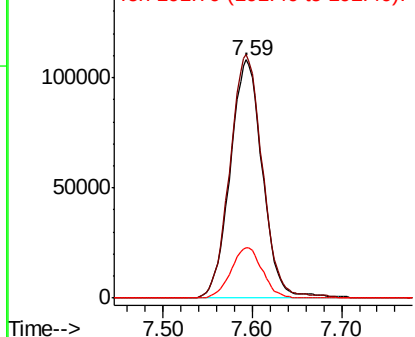


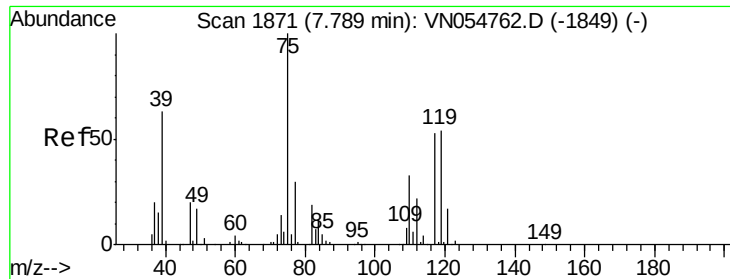
#35
 Dibromofluoromethane
 Concen: 47.673 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054799.D
 Acq: 30 Mar 2019 13:46

Tgt Ion:113 Resp: 271634
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.2 123.4
 192 20.6 19.2 28.8



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: 4.950 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :
MSVOA_N
ClientSampled :

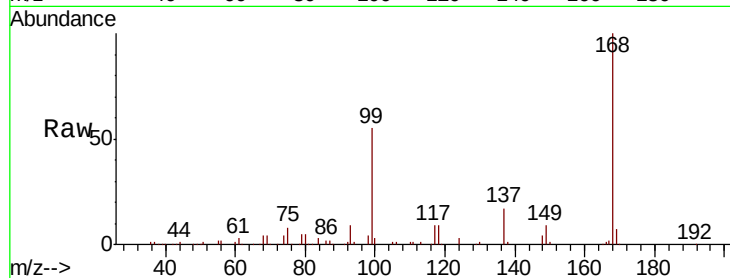
Tot Ion: 75 Resp: 39424

Ion Ratio Lower Upper

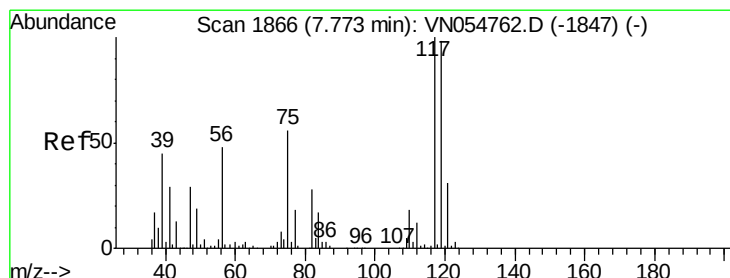
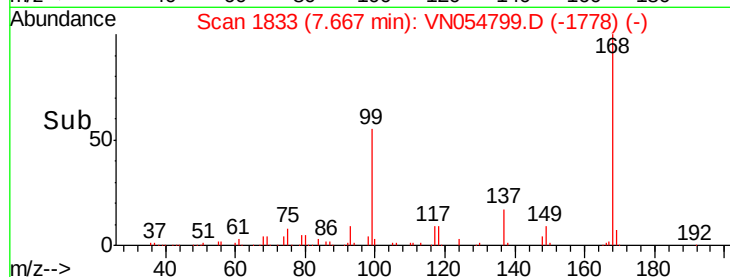
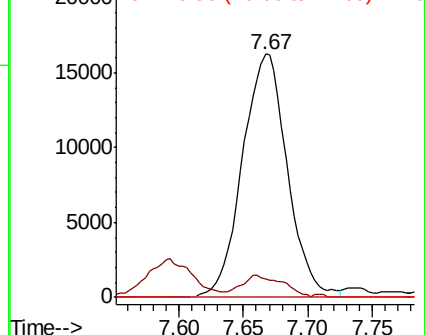
75 100

110 8.5 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.323 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

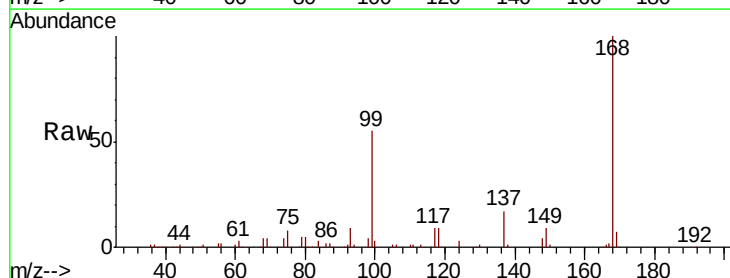
Tgt Ion: 117 Resp: 48907

Ion Ratio Lower Upper

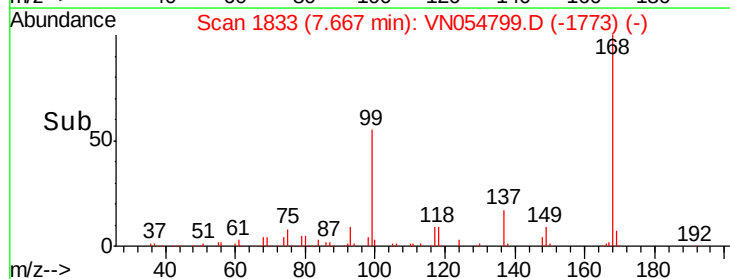
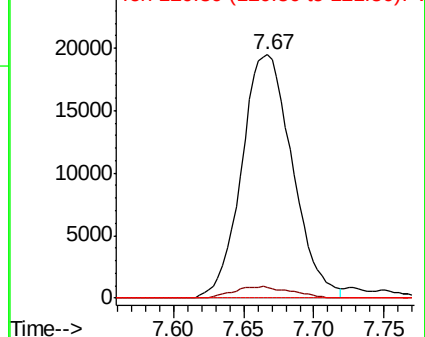
117 100

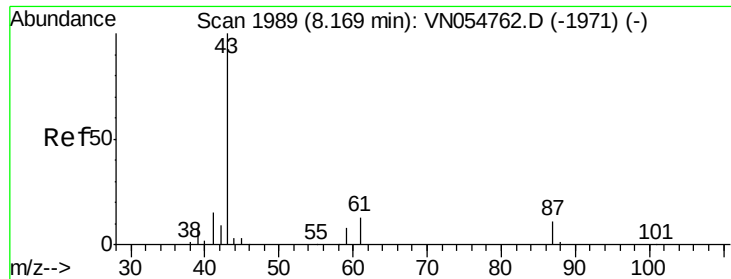
119 4.3 76.3 114.5#

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





#43

Isopropyl Acetate

Concen: 0.389 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.09 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

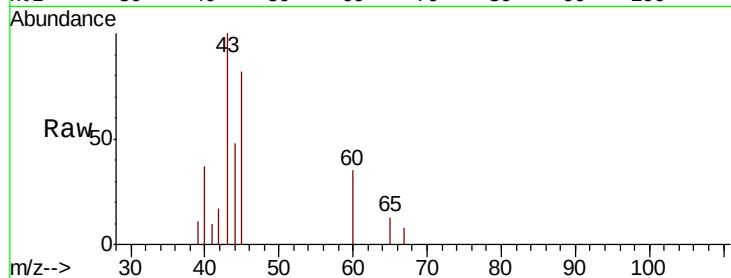
Tot Ion: 43 Resp: 3693

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

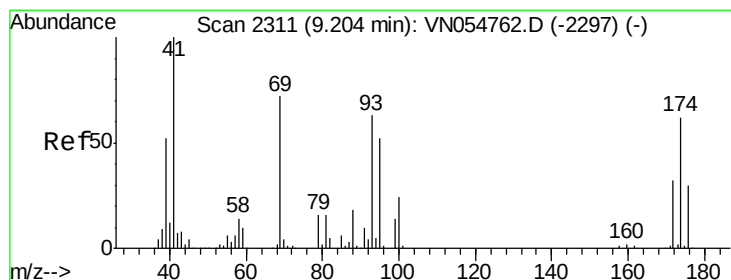
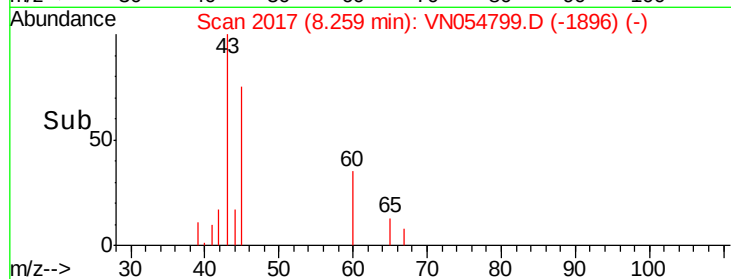
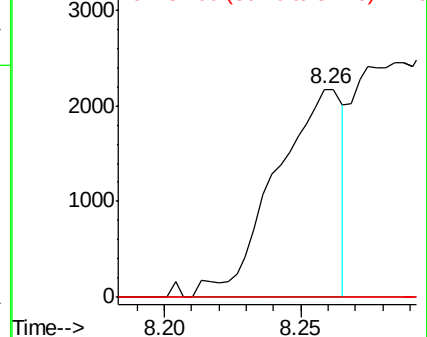
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 0.568 ug/l

RT: 8.99 min Scan# 2245

Delta R.T. -0.21 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

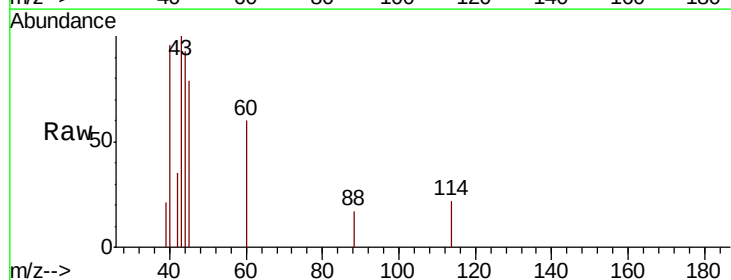
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 1310.3 24.1 36.1#

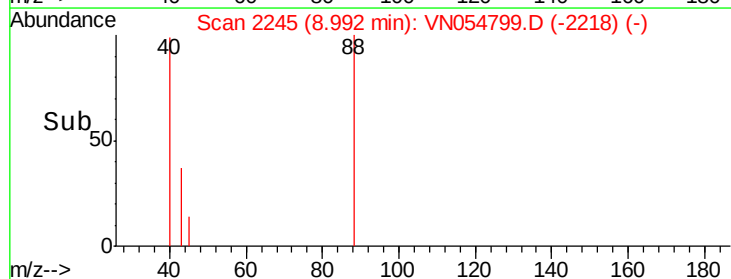
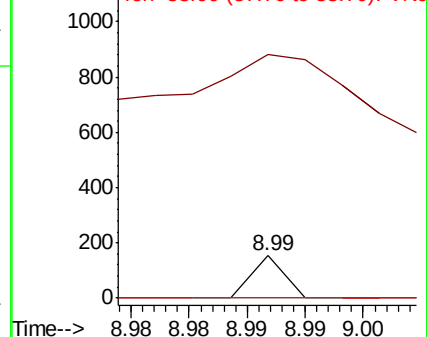
58 0.0 50.8 76.2#

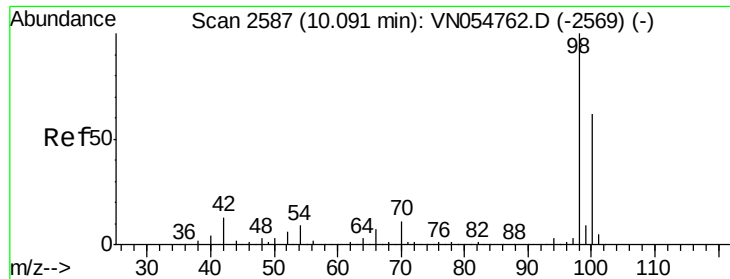


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

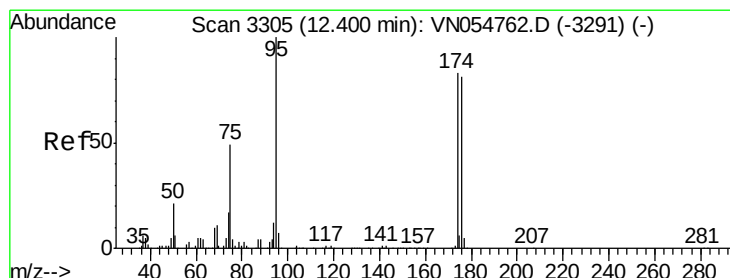
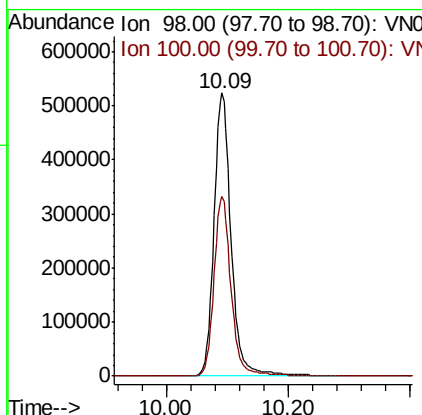
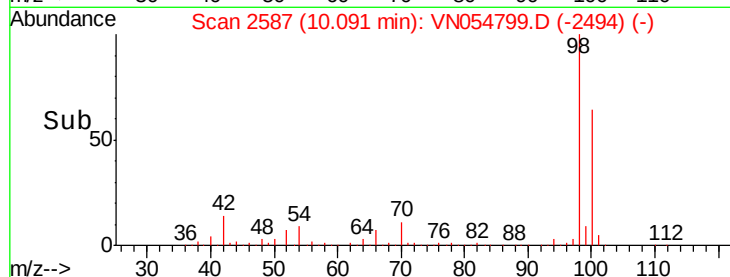
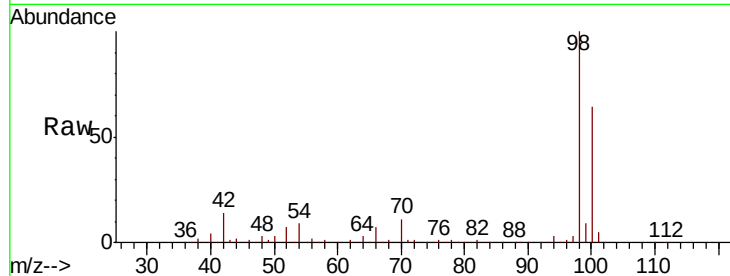




#50
Toluene-d8
Concen: 48.450 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

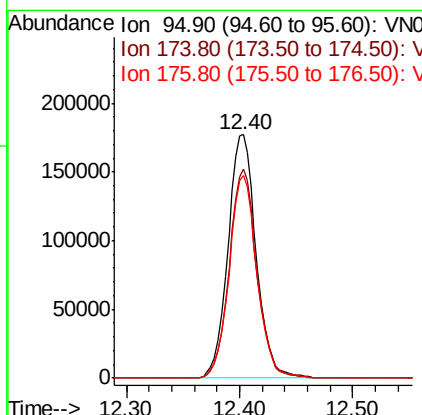
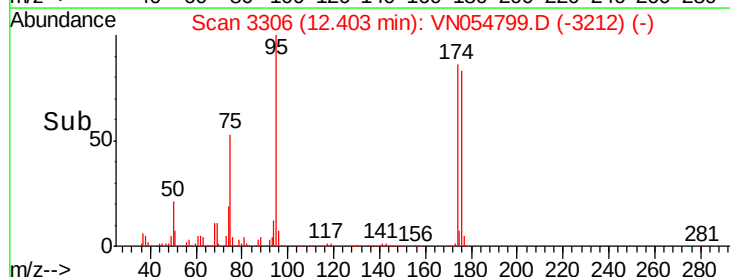
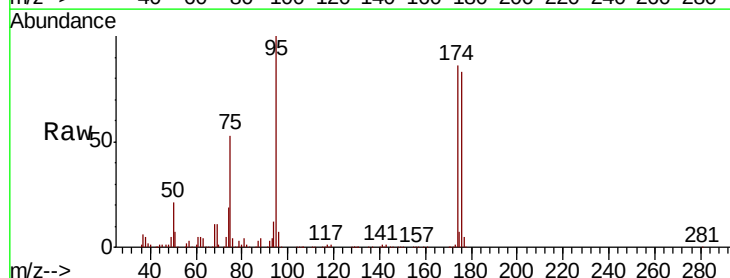
Instrument :
MSVOA_N
ClientSampled :

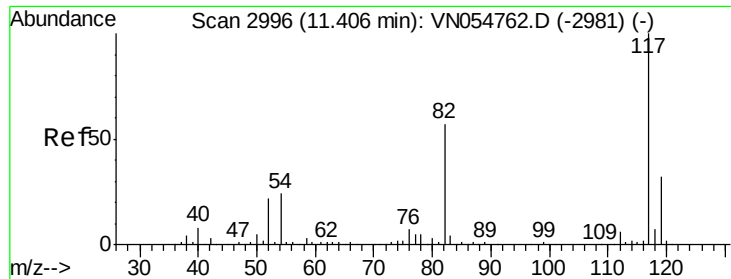
Tot Ion: 98 Resp: 1026338
Ion Ratio Lower Upper
98 100
100 63.1 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 43.364 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

Tgt Ion: 95 Resp: 305507
Ion Ratio Lower Upper
95 100
174 84.4 0.0 191.0
176 82.1 0.0 187.4

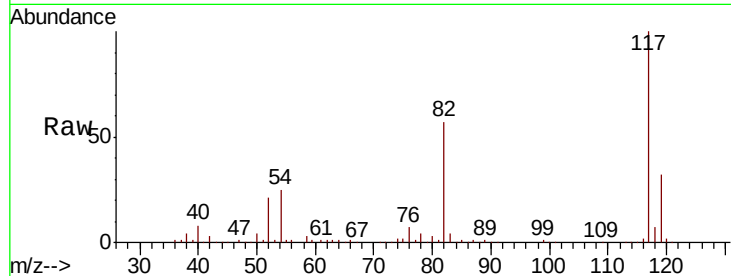




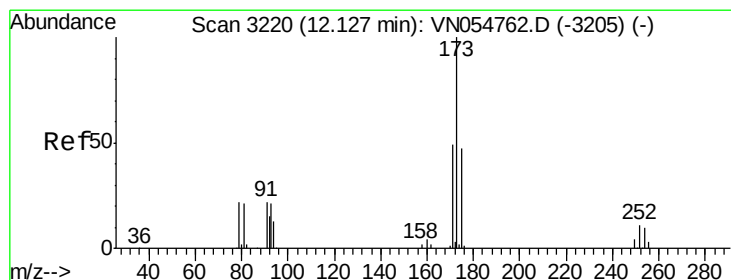
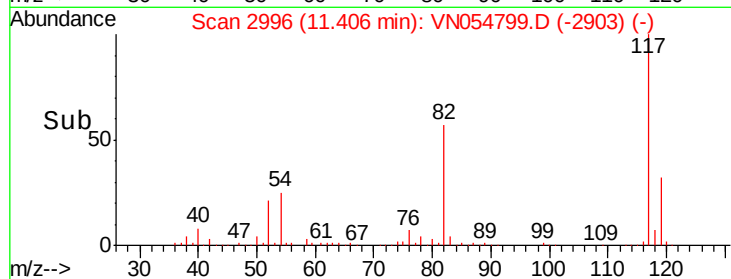
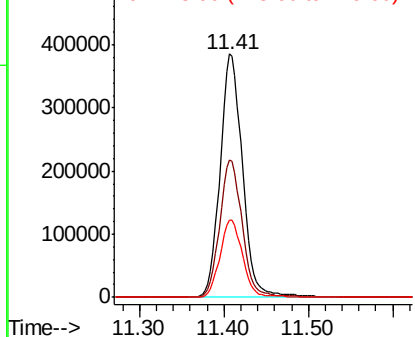
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 710694
Ion Ratio Lower Upper
117 100
82 56.6 40.0 60.0
119 31.8 25.8 38.6

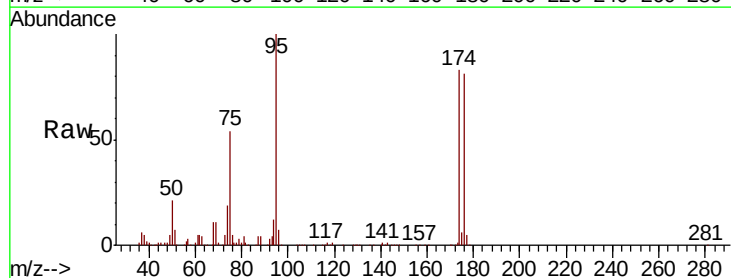


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

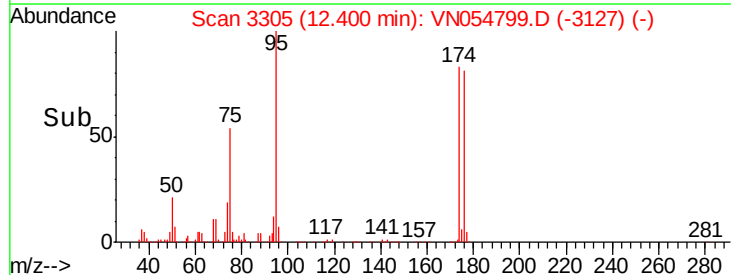
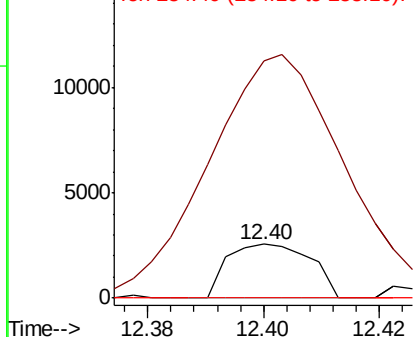


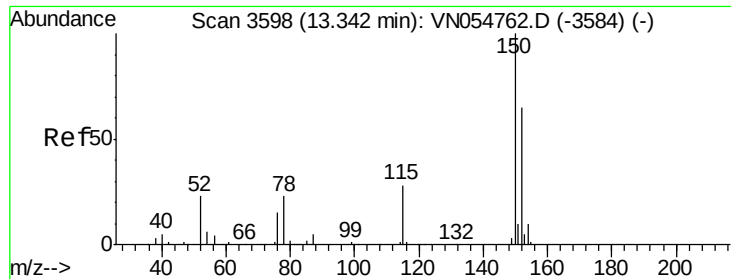
#71
Bromoform
Concen: 0.832 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

Tgt Ion:173 Resp: 2539
Ion Ratio Lower Upper
173 100
175 640.2 24.4 73.2#
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



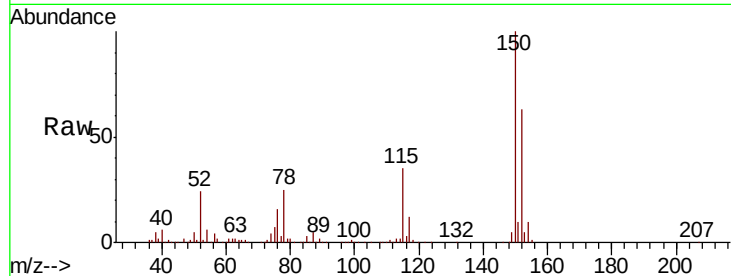


#72

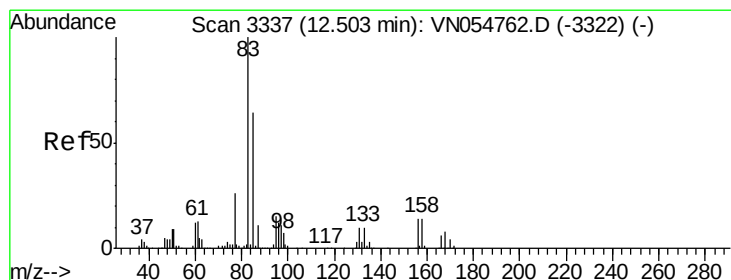
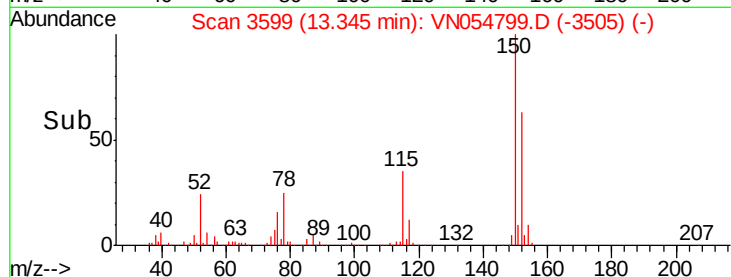
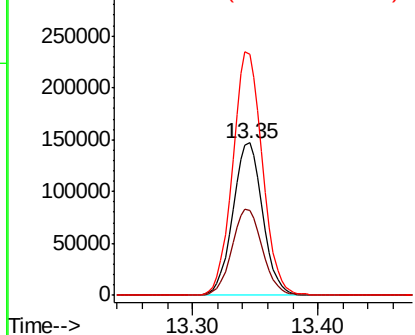
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 242662
Ion Ratio Lower Upper
152 100
115 57.6 27.2 81.6
150 158.6 0.0 349.2



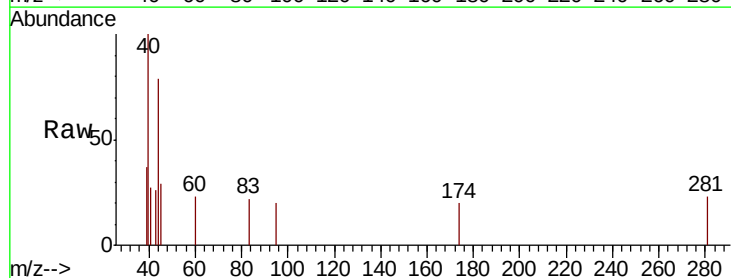
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



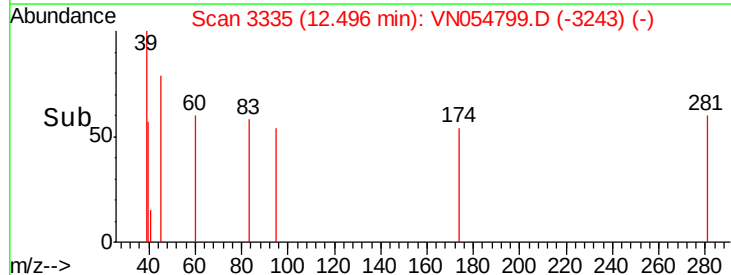
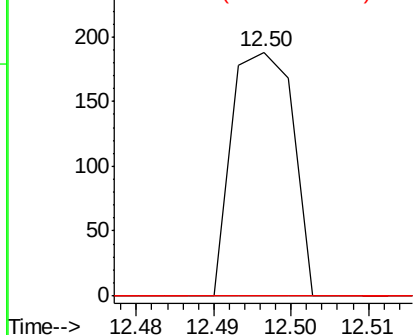
#75

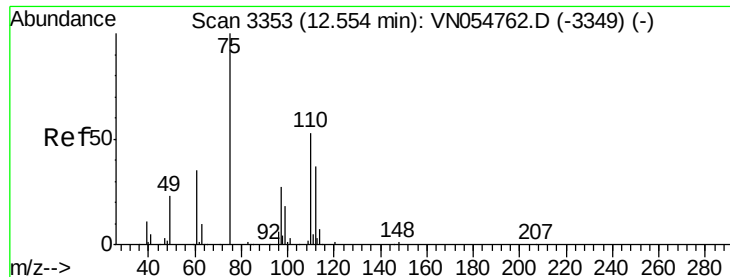
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.50 min Scan# 3335
Delta R.T. -0.01 min
Lab File: VN054799.D
Acq: 30 Mar 2019 13:46

Tgt Ion: 83 Resp: 103
Ion Ratio Lower Upper
83 100
131 0.0 5.8 17.4#
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): V
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 38.140 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :

MSVOA_N

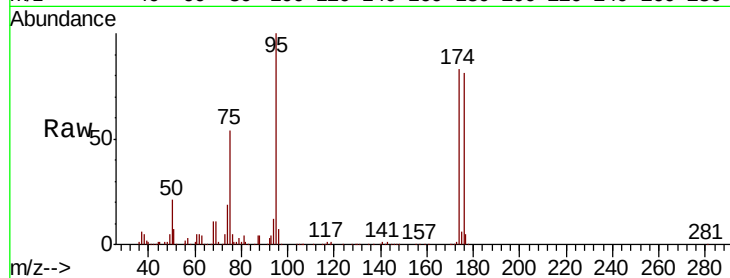
ClientSampled :

Tot Ion: 75 Resp: 160784

Ion Ratio Lower Upper

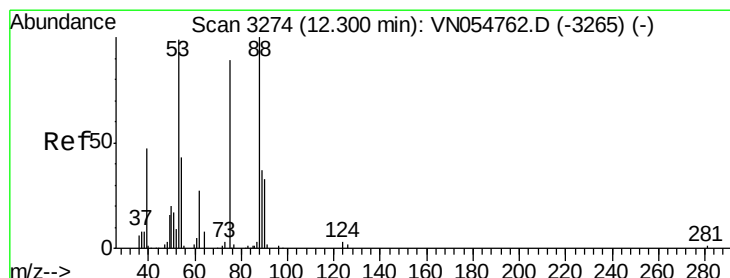
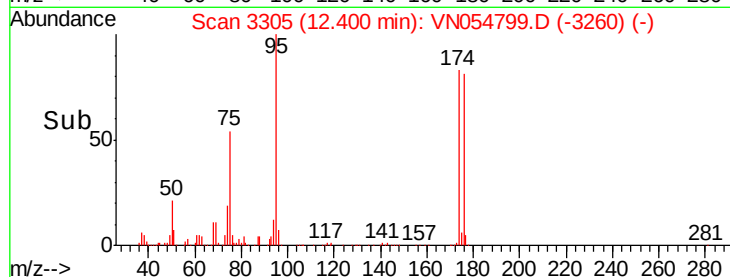
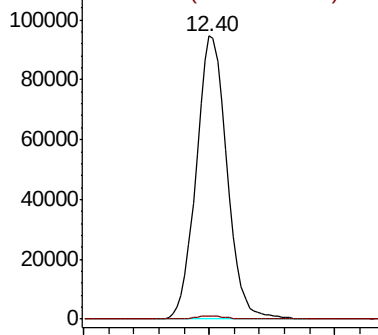
75 100

77 1.0 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: 148.356 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

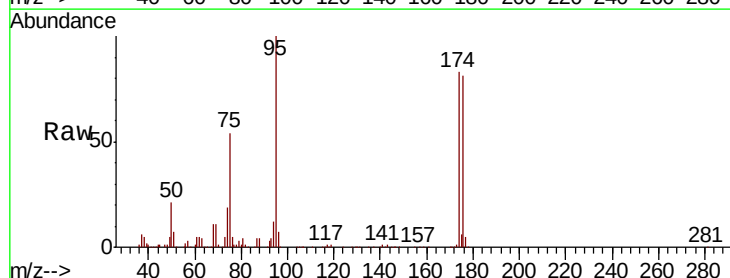
Tgt Ion: 75 Resp: 160784

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

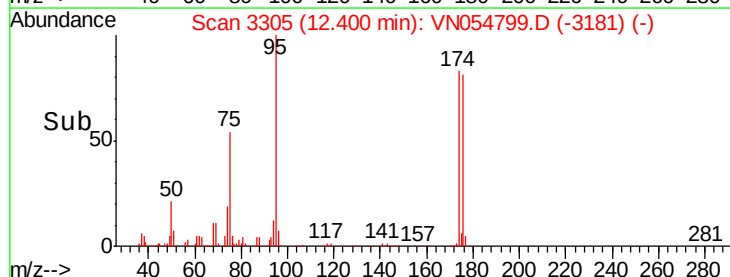
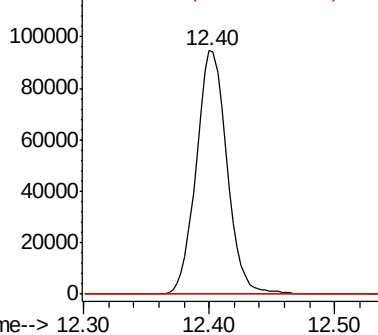
89 0.0 39.2 58.8#

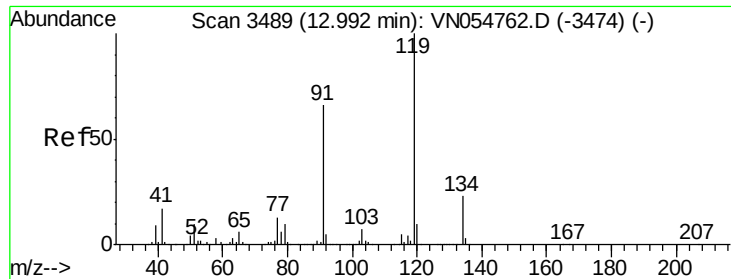


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN054799.D

Acq: 30 Mar 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

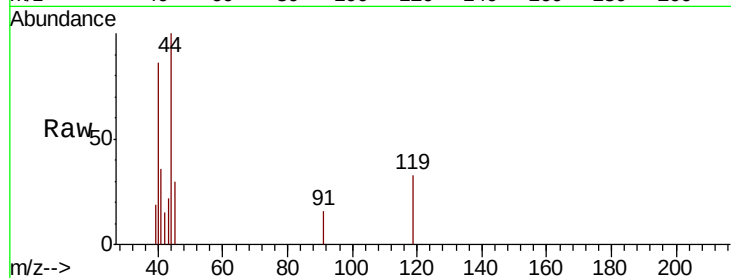
Tot Ion:119 Resp: 540

Ion Ratio Lower Upper

119 100

91 10.9 30.9 92.8#

134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VNO

Ion 134.00 (133.70 to 134.70): V

