

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054829.D
 Acq On : 31 Mar 2019 3:57
 Operator : JC/SP
 Sample : K2164-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 31 04:44:44 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	520116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852500	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	711477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242310	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	352620	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
35) Dibromofluoromethane	7.59	113	274763	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	10.09	98	1014863	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
62) 4-Bromofluorobenzene	12.40	95	298332	42.45	ug/l	0.00
Spiked Amount			Recovery	=	84.90%	

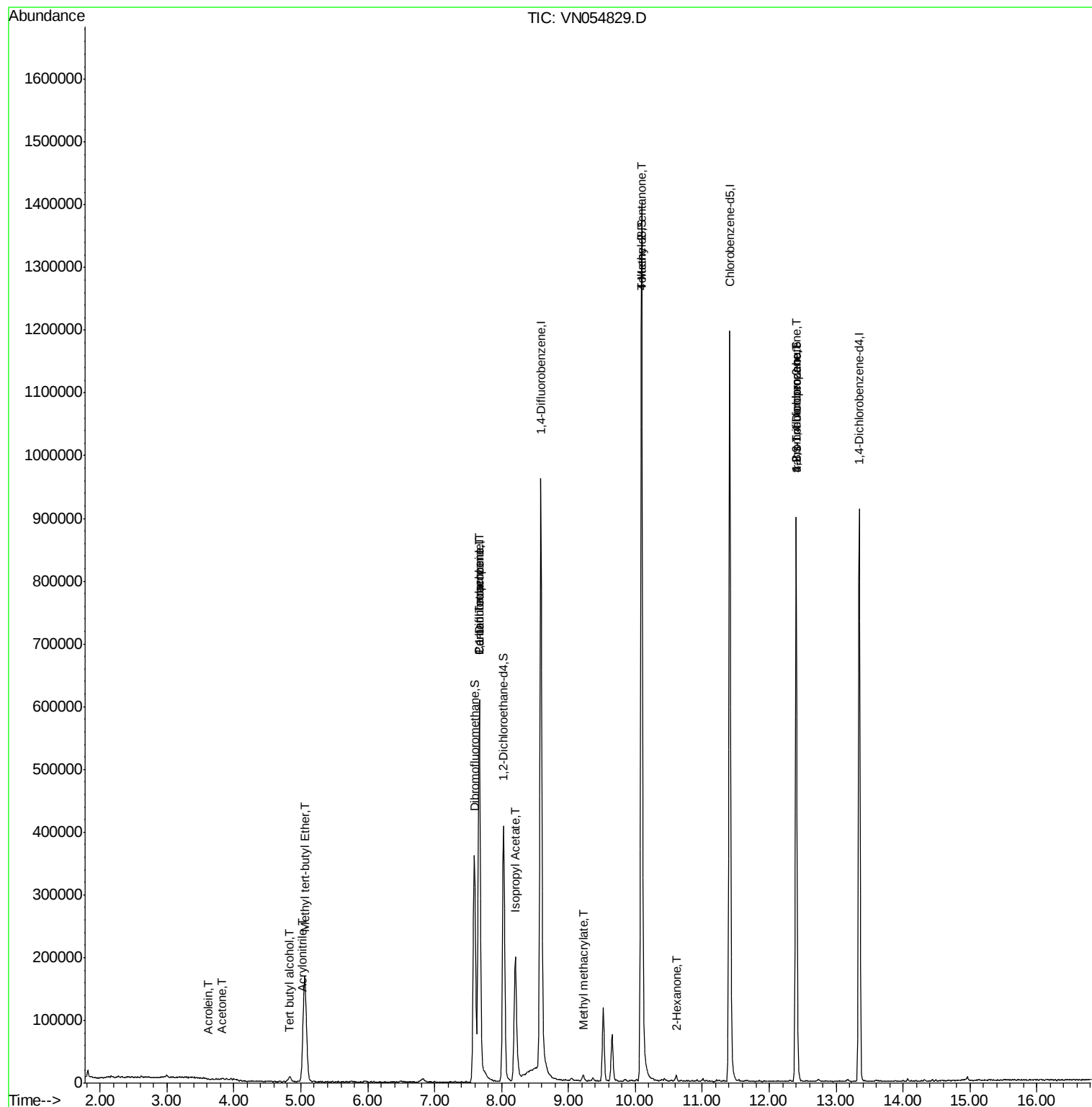
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	302	Below Cal	#	2
11) Tert butyl alcohol	4.83	59	10725	29.359	ug/l #	70
13) Acrolein	3.62	56	202	0.619	ug/l	98
15) Acrylonitrile	5.02	53	422	0.208	ug/l #	17
16) Acetone	3.83	43	1221	0.730	ug/l #	55
18) Methyl Acetate	4.34	43	619	Below Cal	#	49
19) Methyl tert-butyl Ether	5.06	73	262723	18.371	ug/l	92
31) Cyclohexane	7.67	56	11522	Below Cal	#	30
36) 1,1-Dichloropropene	7.67	75	39408	4.961	ug/l #	49
38) Carbon Tetrachloride	7.67	117	49338	6.395	ug/l #	16
43) Isopropyl Acetate	8.20	43	52408	5.537	ug/l #	60
48) Methyl methacrylate	9.23	41	3663	0.714	ug/l #	24
51) 4-Methyl-2-Pentanone	10.09	43	5036	0.946	ug/l #	1
59) 2-Hexanone	10.61	43	6237	1.831	ug/l	67
75) 1,1,2,2-Tetrachloroethane	12.39	83	59	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	158631	37.684	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158631	146.582	ug/l #	11
83) tert-Butylbenzene	12.99	119	79	Below Cal	#	28

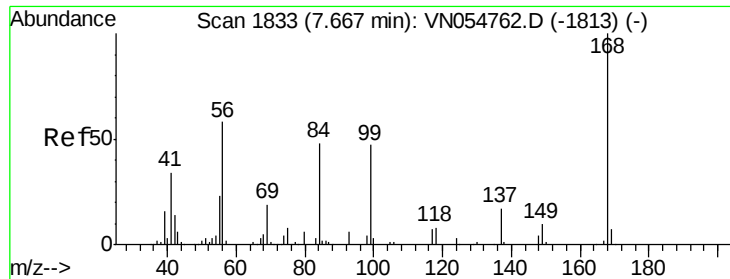
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

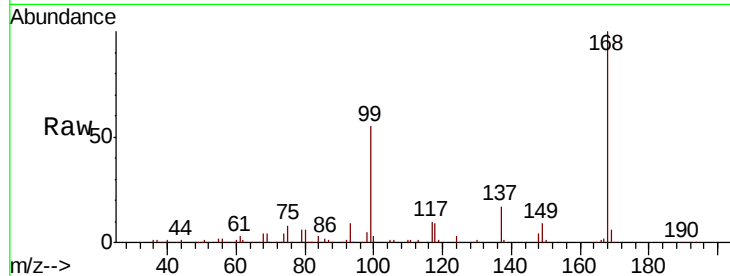
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 520116

Ion Ratio Lower Upper

168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

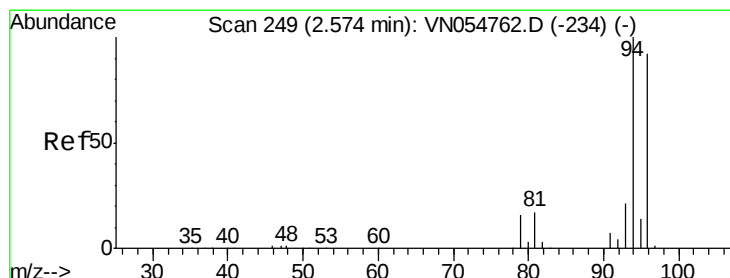
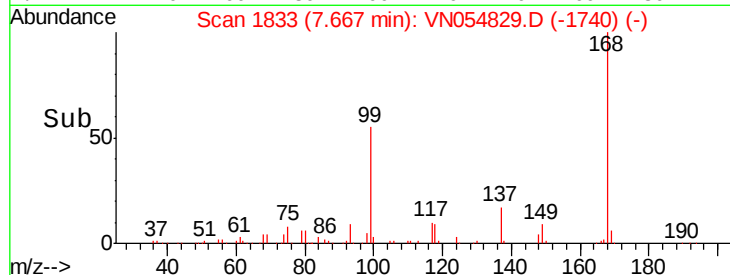
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054829.D

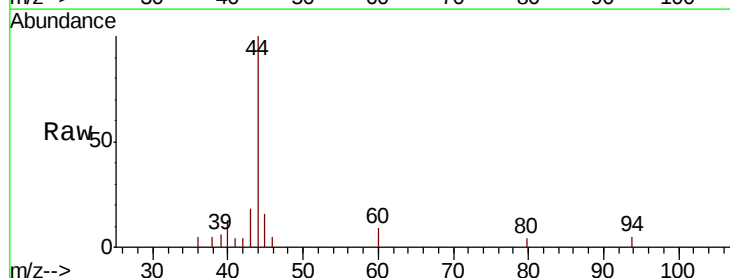
Acq: 31 Mar 2019 3:57

Tgt Ion: 94 Resp: 302

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

300

250

200

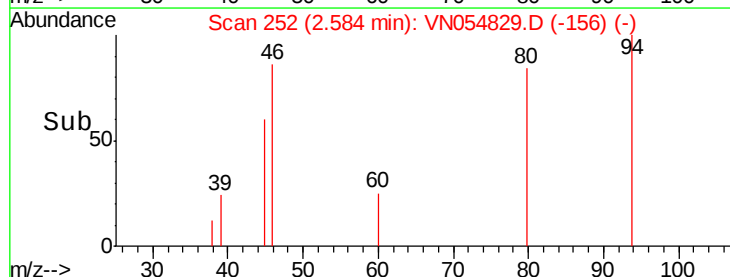
150

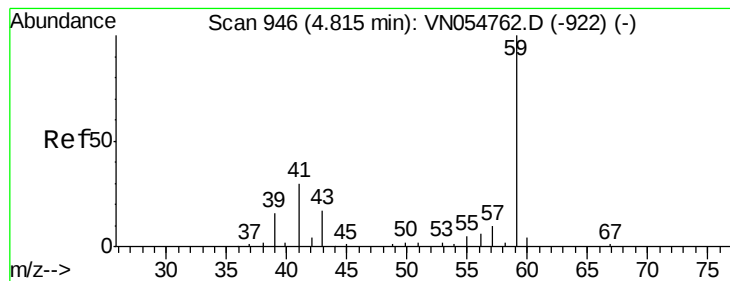
100

50

0

Time-->



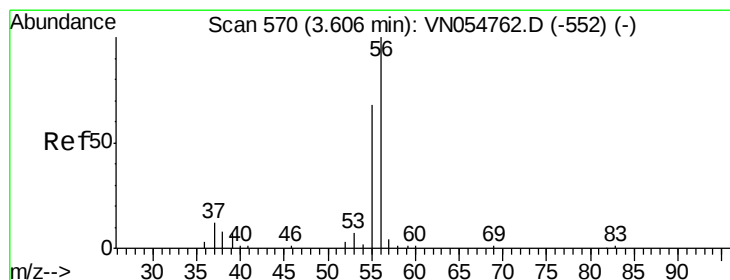
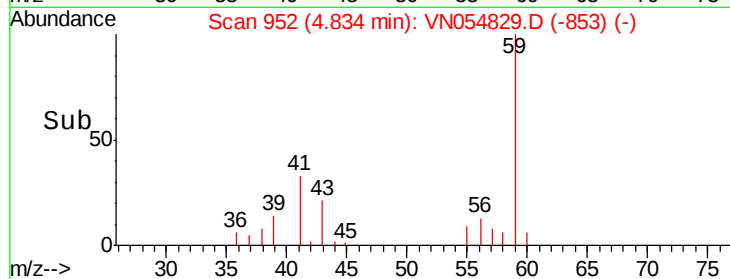
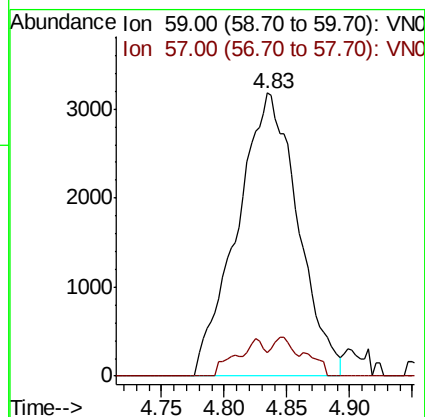
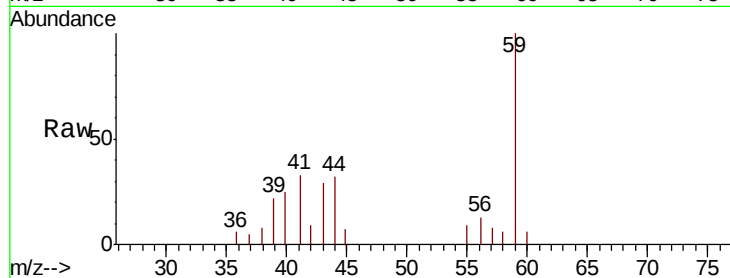


#11

Tert butyl alcohol
 Concen: 29.359 ug/l
 RT: 4.83 min Scan# 952
 Delta R.T. 0.02 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

Instrument :
 MSVOA_N
 ClientSampleId :

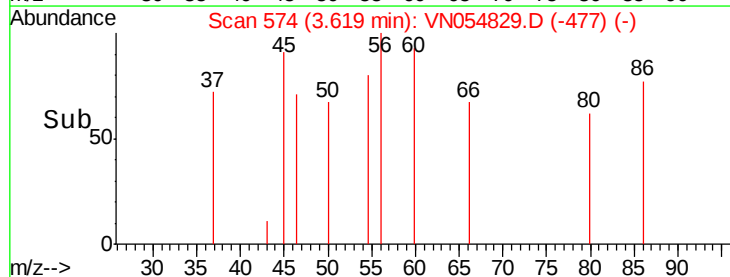
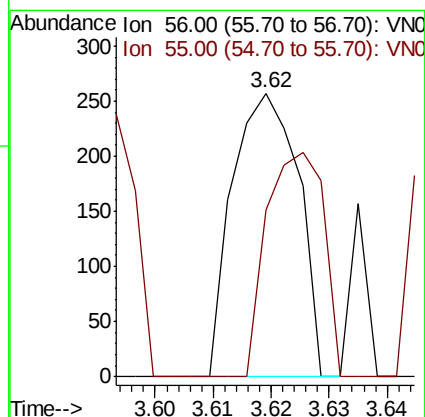
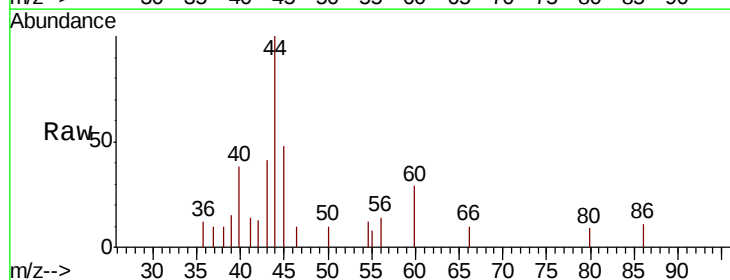
Tot Ion: 59 Resp: 10725
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

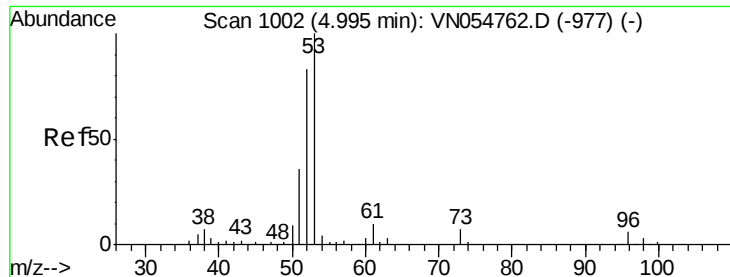


#13

Acrolein
 Concen: 0.619 ug/l
 RT: 3.62 min Scan# 574
 Delta R.T. 0.01 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

Tgt Ion: 56 Resp: 202
 Ion Ratio Lower Upper
 56 100
 55 69.3 56.7 85.1

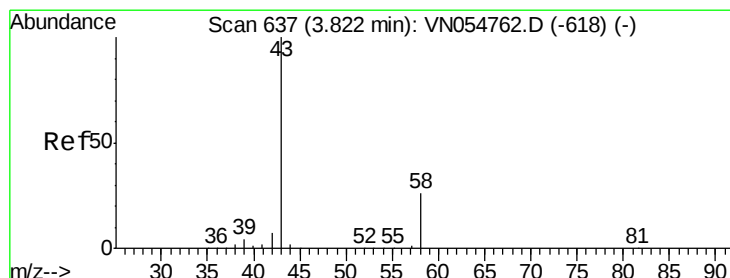
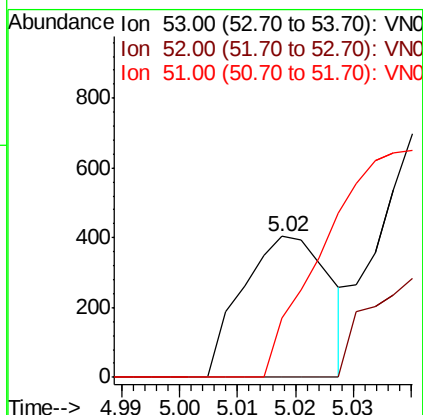
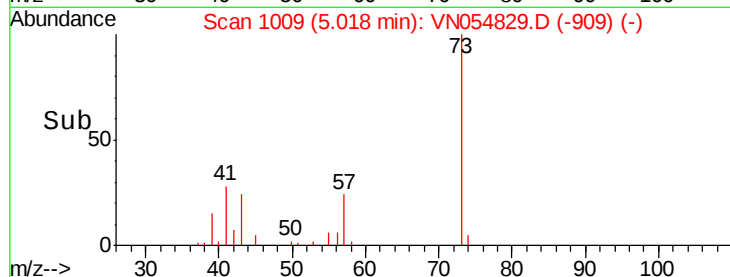
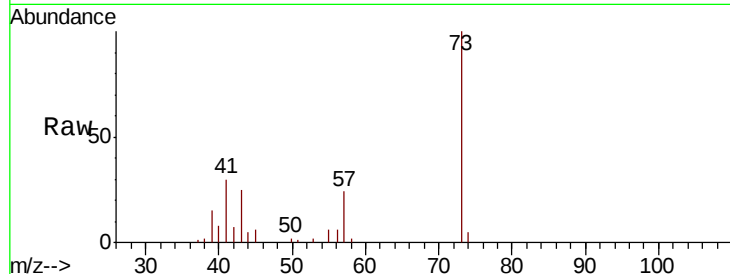




#15
Acrylonitrile
Concen: 0.208 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.02 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

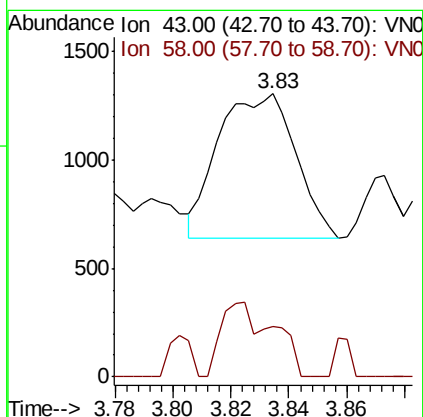
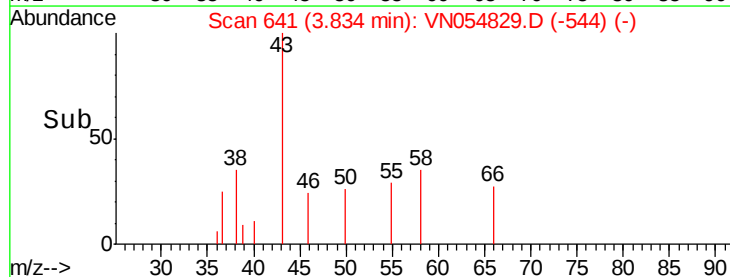
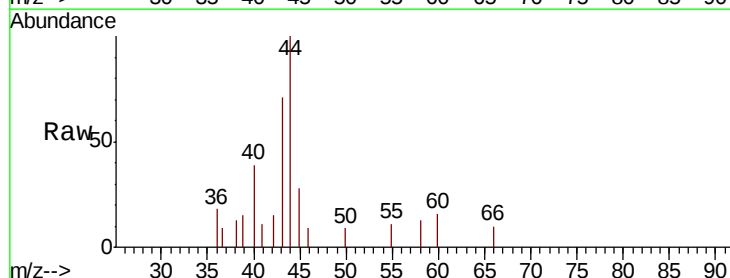
Instrument :
MSVOA_N
ClientSampled :

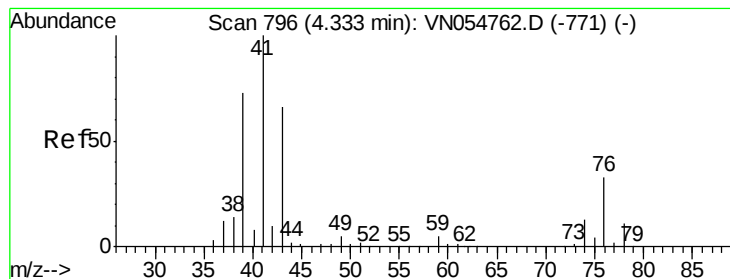
Tot Ion: 53 Resp: 422
Ion Ratio Lower Upper
53 100
52 0.0 66.4 99.6#
51 0.0 29.6 44.4#



#16
Acetone
Concen: 0.730 ug/l
RT: 3.83 min Scan# 641
Delta R.T. 0.01 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

Tgt Ion: 43 Resp: 1221
Ion Ratio Lower Upper
43 100
58 10.3 29.9 44.9#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.00 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

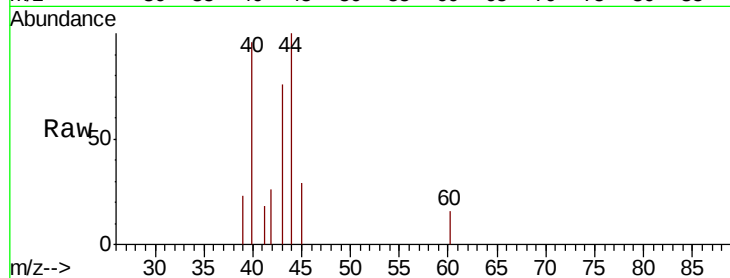
ClientSampled :

Tot Ion: 43 Resp: 619

Ion Ratio Lower Upper

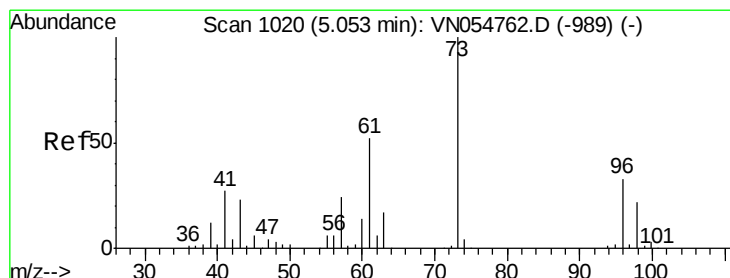
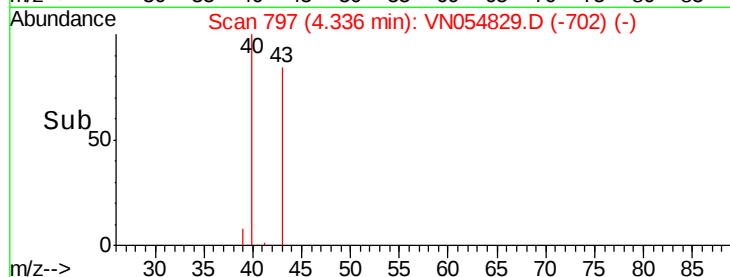
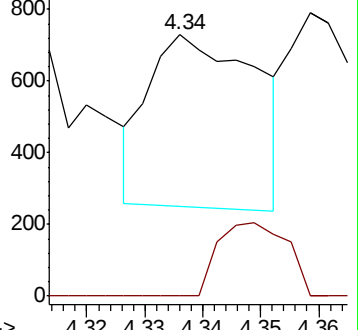
43 100

74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#19

Methyl tert-butyl Ether

Concen: 18.371 ug/l

RT: 5.06 min Scan# 1022

Delta R.T. 0.01 min

Lab File: VN054829.D

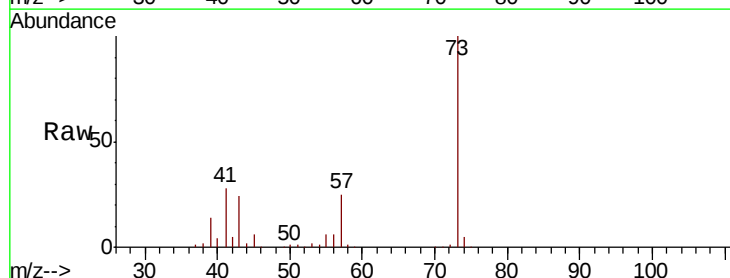
Acq: 31 Mar 2019 3:57

Tgt Ion: 73 Resp: 262723

Ion Ratio Lower Upper

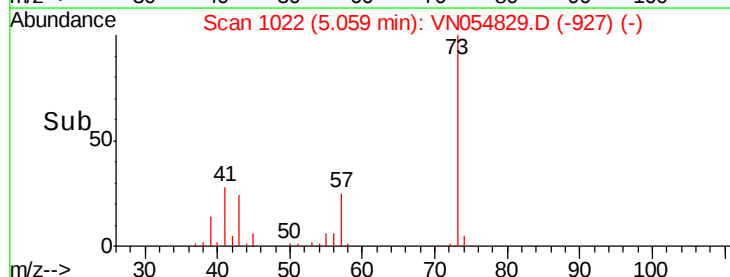
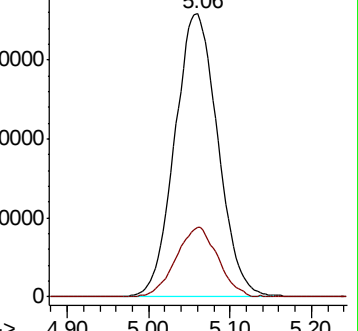
73 100

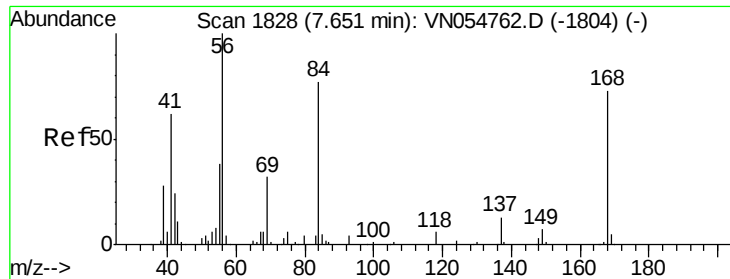
57 24.7 16.8 25.2



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

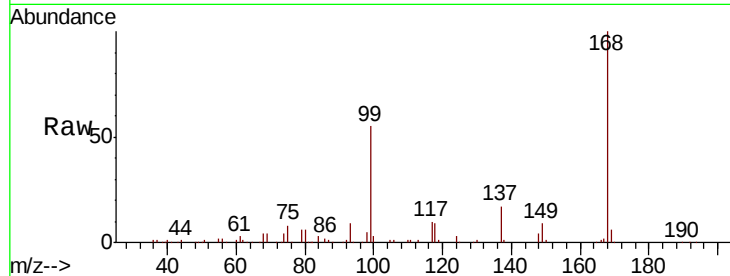




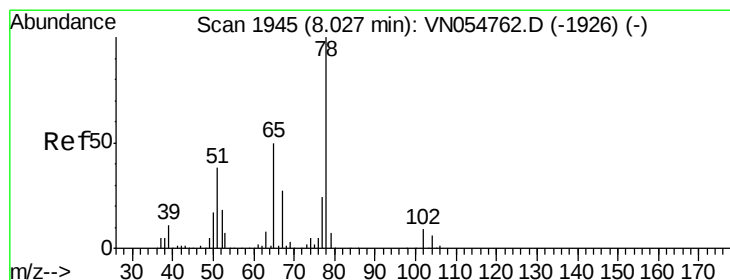
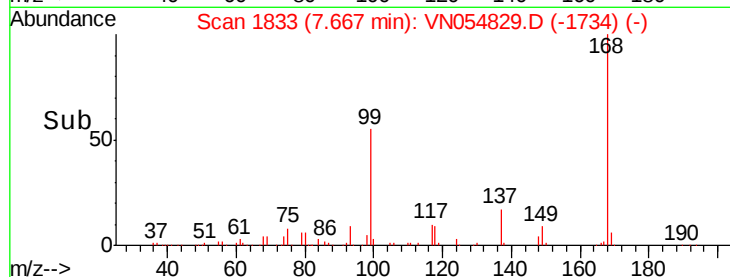
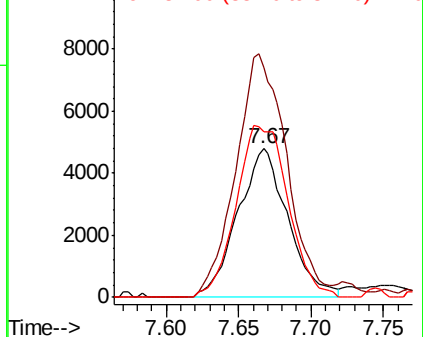
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 11522
Ion Ratio Lower Upper
56 100
69 154.2 27.8 41.6#
84 111.7 74.6 111.8

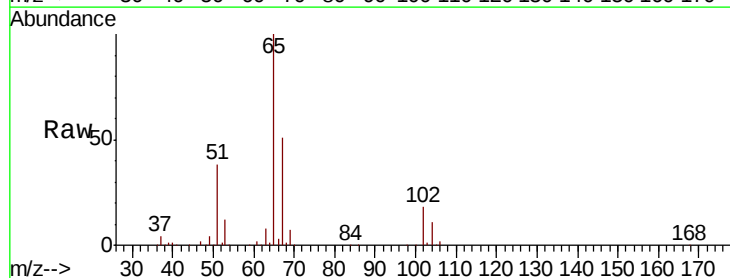


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

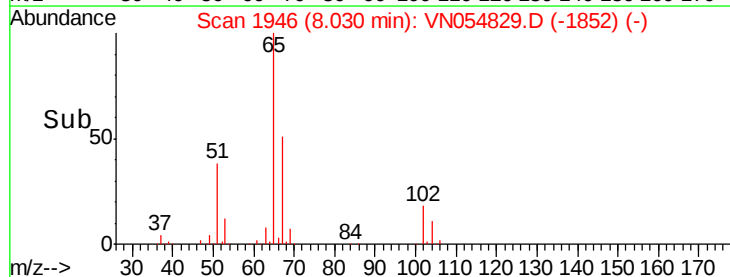
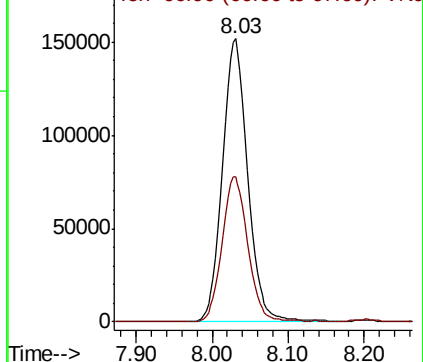


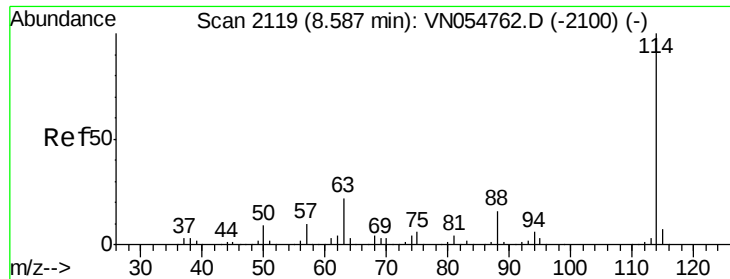
#33
1,2-Dichloroethane-d4
Concen: 50.293 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

Tgt Ion: 65 Resp: 352620
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

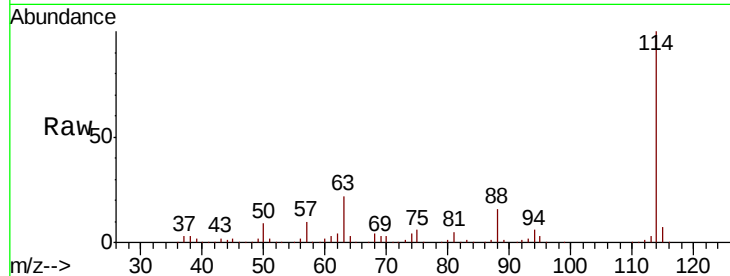




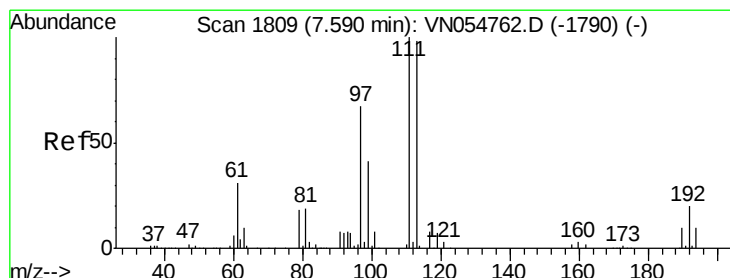
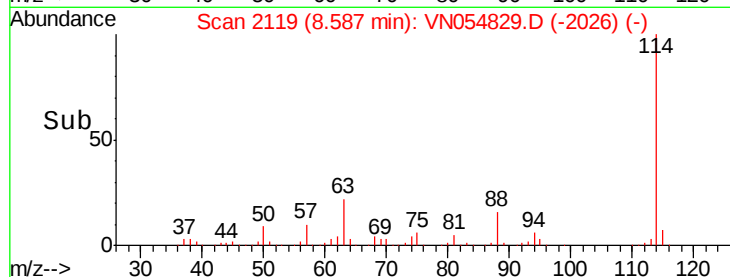
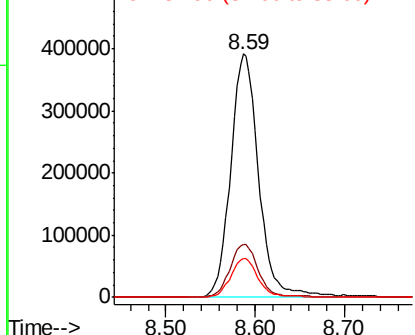
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	35.2
88	16.2	0.0	30.2

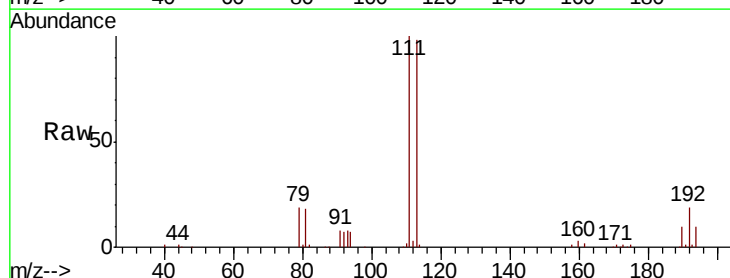


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

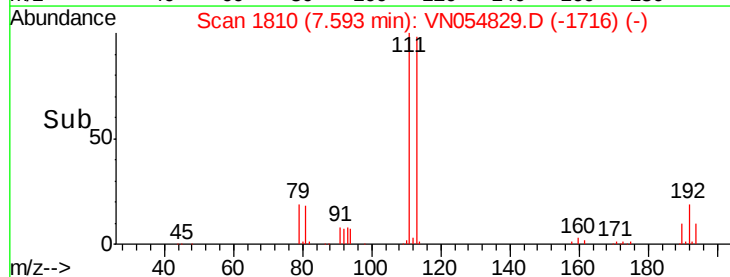
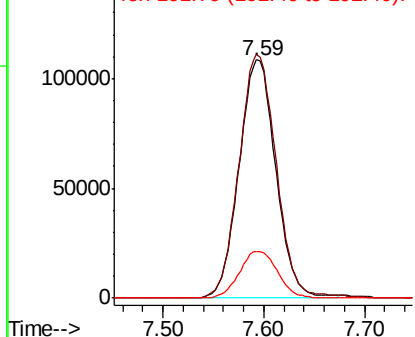


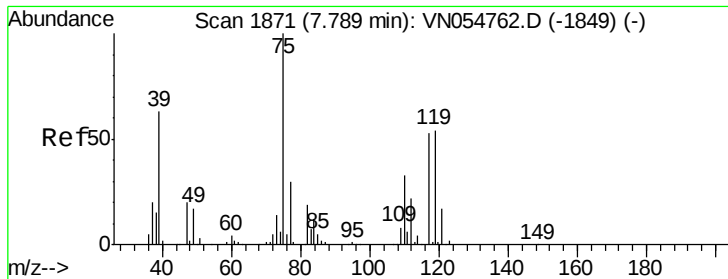
#35
 Dibromofluoromethane
 Concen: 48.344 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.2	123.4
192	20.4	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

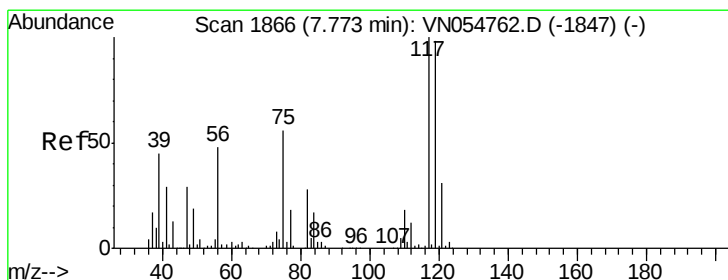
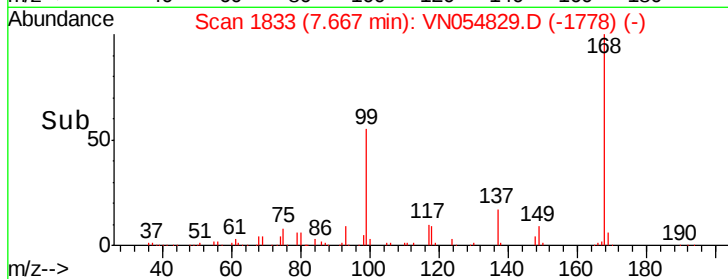
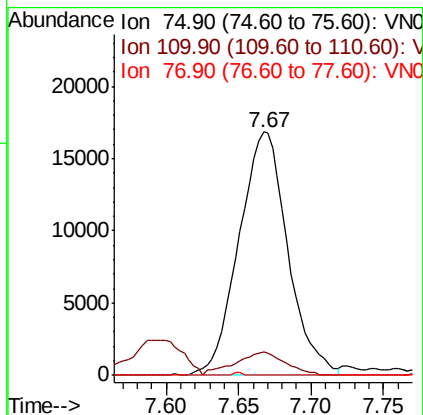
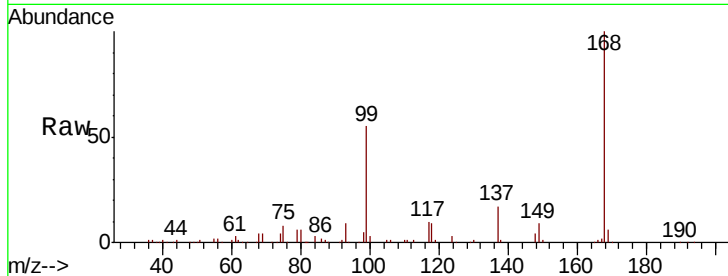




#36
 1,1-Dichloropropene
 Concen: 4.961 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

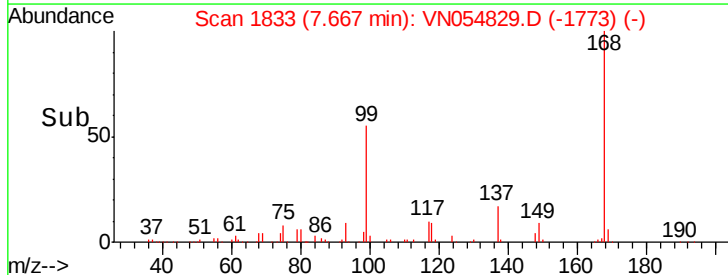
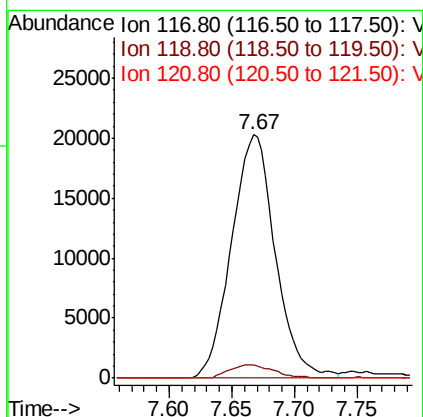
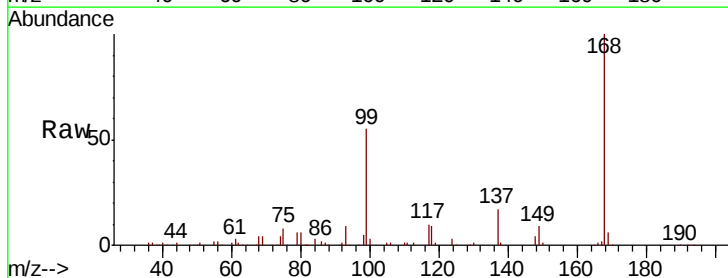
Instrument :
 MSVOA_N
 ClientSampleId :

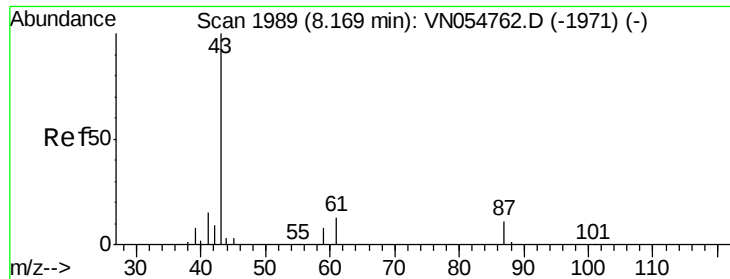
Tot Ion	75	Resp	39408
Ion Ratio	Lower	Upper	
75	100		
110	9.9	19.1	57.5#
77	0.2	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054829.D
 Acq: 31 Mar 2019 3:57

Tgt Ion	117	Resp	49338
Ion Ratio	Lower	Upper	
117	100		
119	5.4	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 5.537 ug/l

RT: 8.20 min Scan# 2000

Delta R.T. 0.04 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

ClientSampleId :

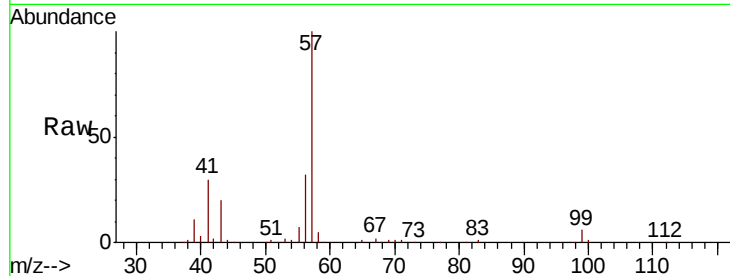
Tot Ion: 43 Resp: 52408

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

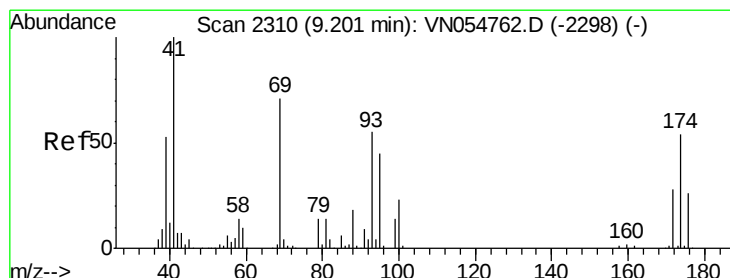
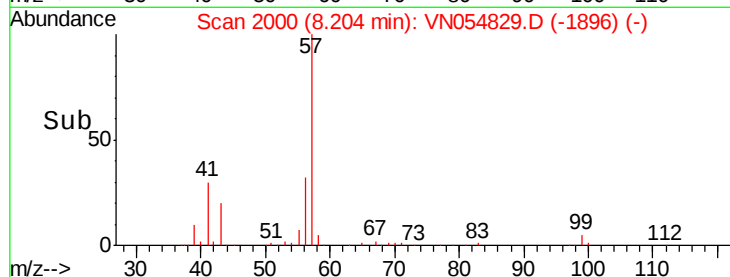
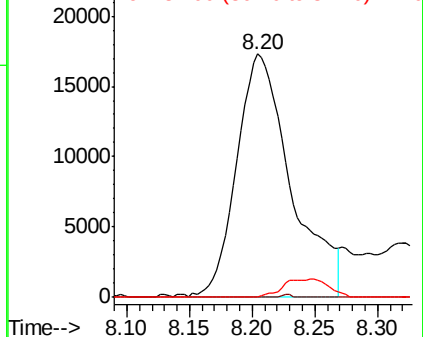
87 0.0 12.0 18.0#



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



#48

Methyl methacrylate

Concen: 0.714 ug/l

RT: 9.23 min Scan# 2318

Delta R.T. 0.03 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

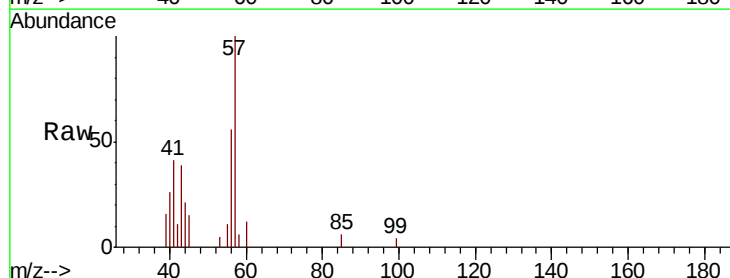
Tgt Ion: 41 Resp: 3663

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

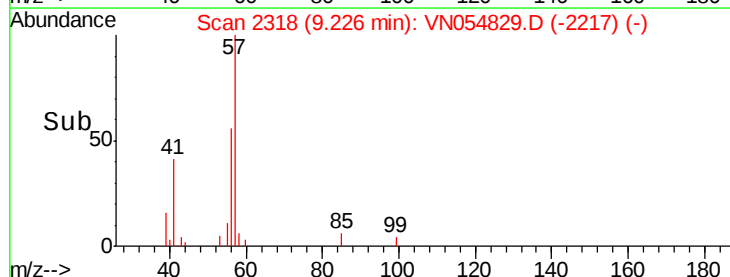
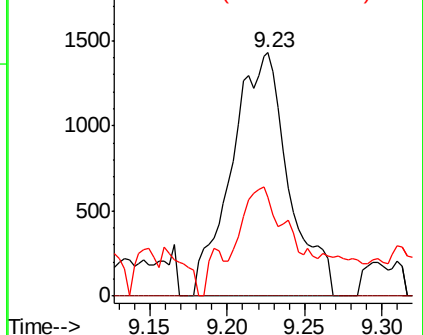
39 24.2 47.5 71.3#

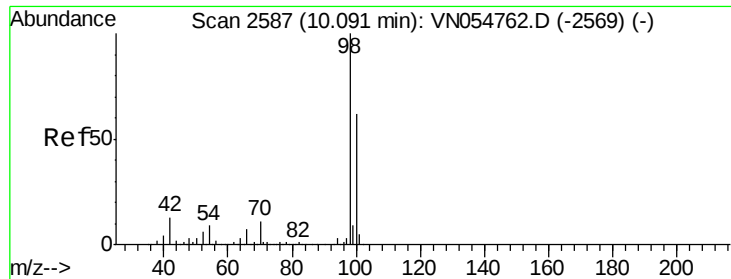


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 48.029 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

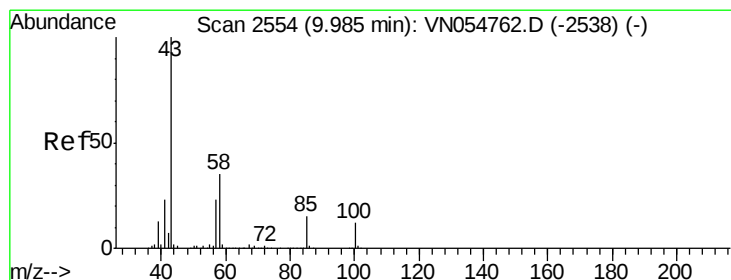
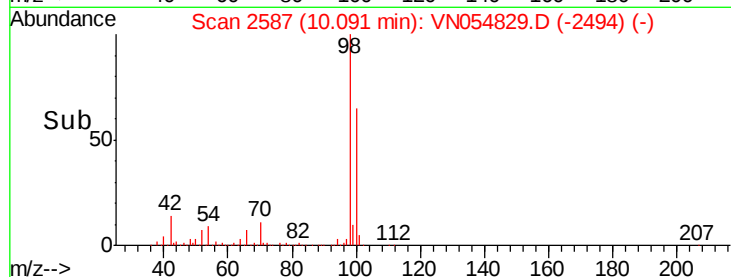
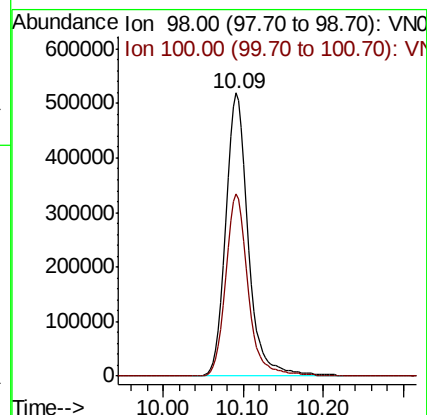
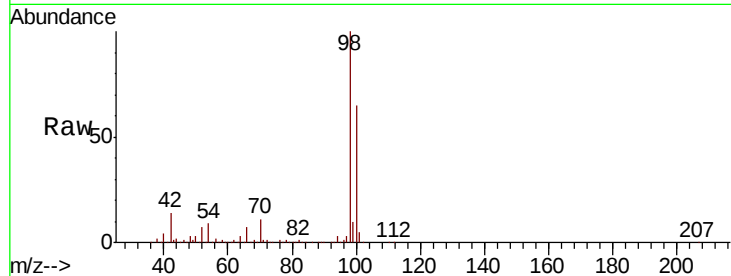
ClientSampleId :

Tot Ion: 98 Resp: 1014863

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.946 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN054829.D

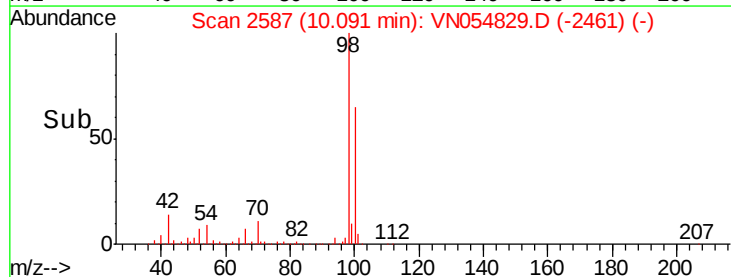
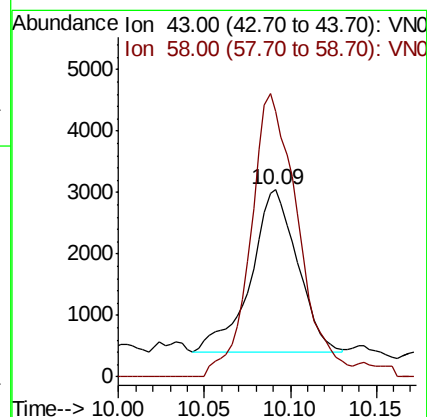
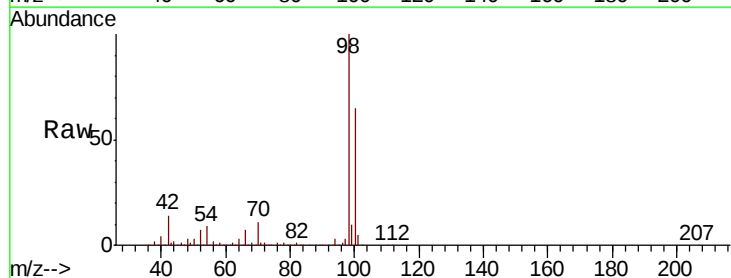
Acq: 31 Mar 2019 3:57

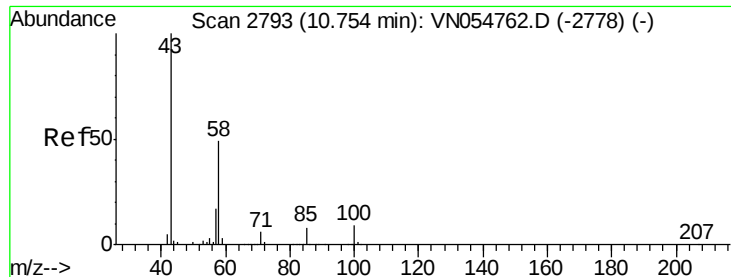
Tgt Ion: 43 Resp: 5036

Ion Ratio Lower Upper

43 100

58 174.8 31.8 47.6#





#59

2-Hexanone

Concen: 1.831 ug/l

RT: 10.61 min Scan# 2748

Delta R.T. -0.14 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

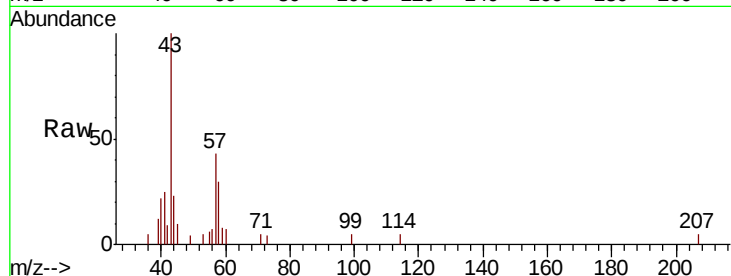
ClientSampleId :

Tot Ion: 43 Resp: 6237

Ion Ratio Lower Upper

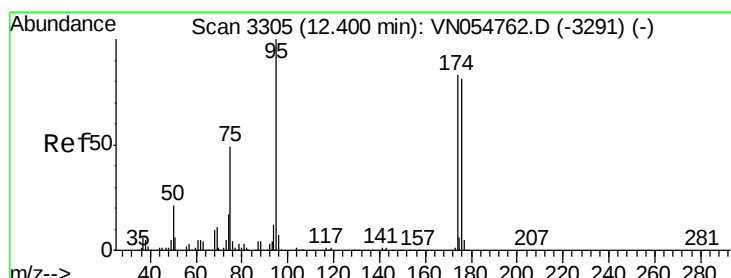
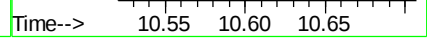
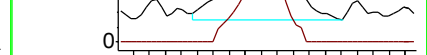
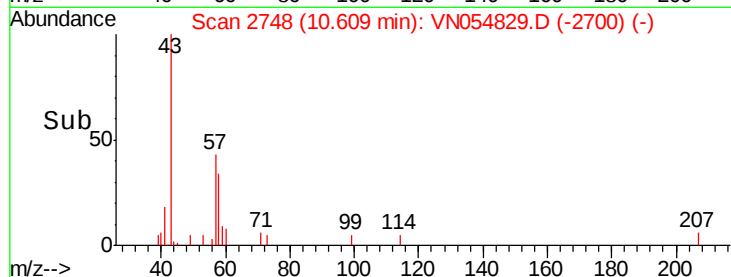
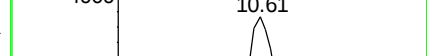
43 100

58 31.8 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 42.453 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

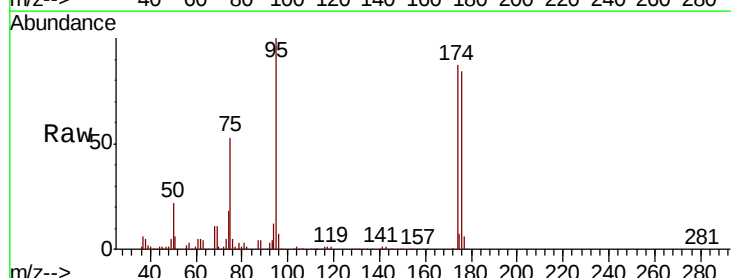
Tgt Ion: 95 Resp: 298332

Ion Ratio Lower Upper

95 100

174 86.0 0.0 191.0

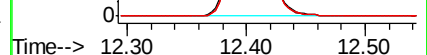
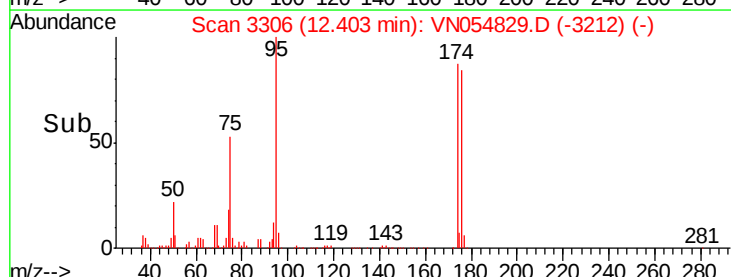
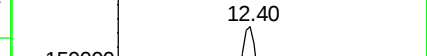
176 83.6 0.0 187.4

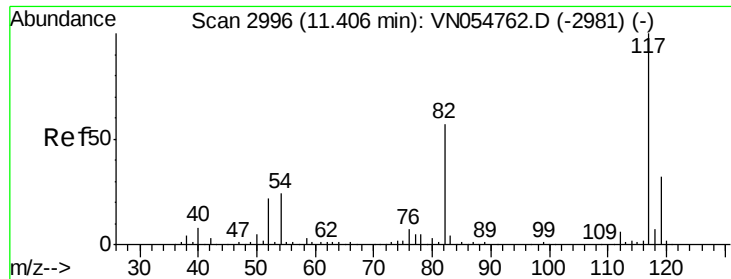


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

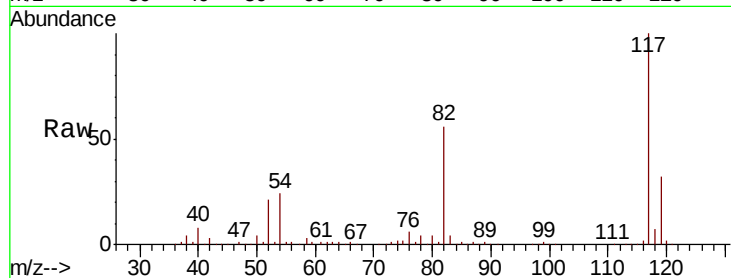




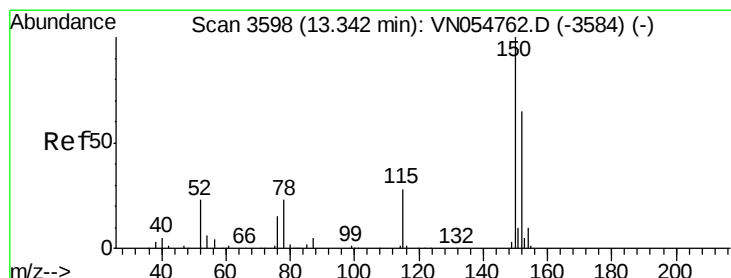
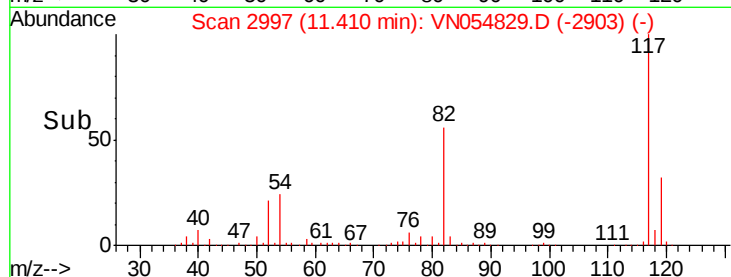
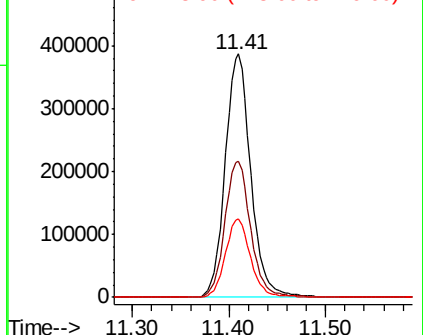
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 711477
Ion Ratio Lower Upper
117 100
82 55.8 40.0 60.0
119 32.0 25.8 38.6

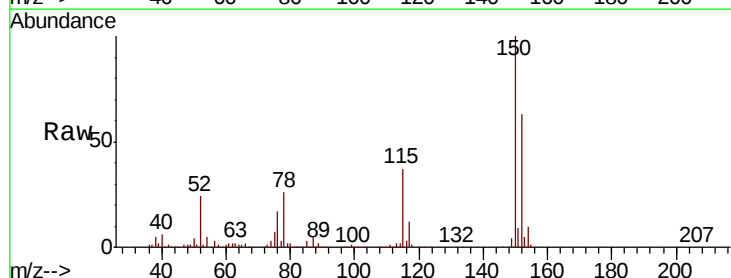


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

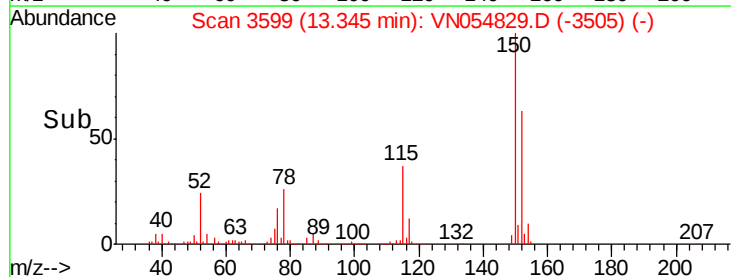
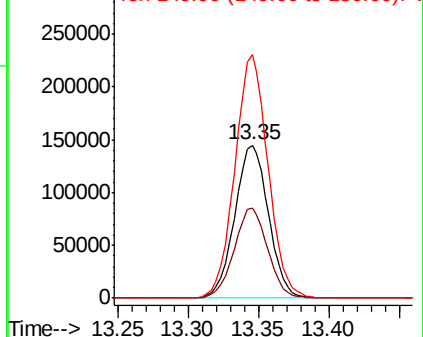


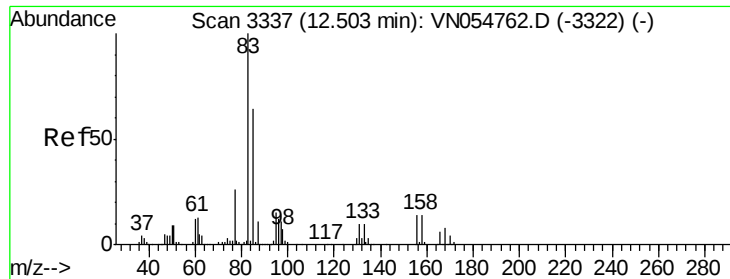
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054829.D
Acq: 31 Mar 2019 3:57

Tgt Ion:152 Resp: 242310
Ion Ratio Lower Upper
152 100
115 58.5 27.2 81.6
150 156.6 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: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

ClientSampled :

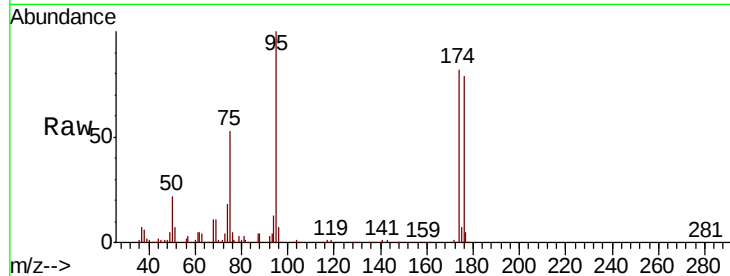
Tot Ion: 83 Resp: 59

Ion Ratio Lower Upper

83 100

131 389.8 5.8 17.4#

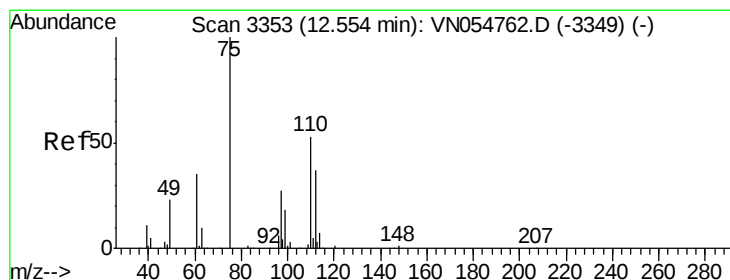
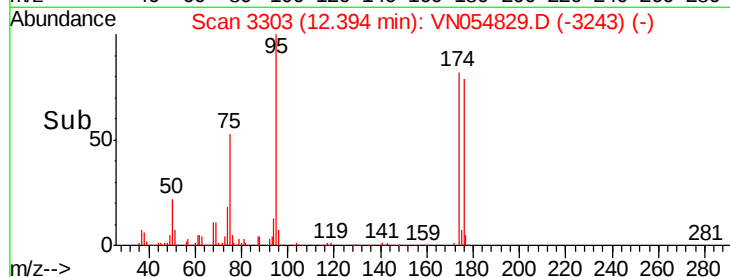
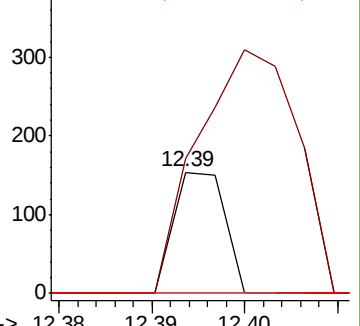
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.684 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054829.D

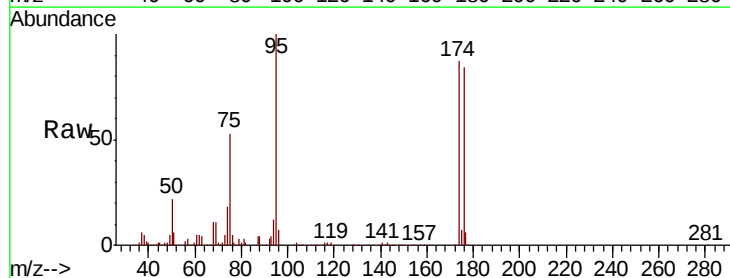
Acq: 31 Mar 2019 3:57

Tgt Ion: 75 Resp: 158631

Ion Ratio Lower Upper

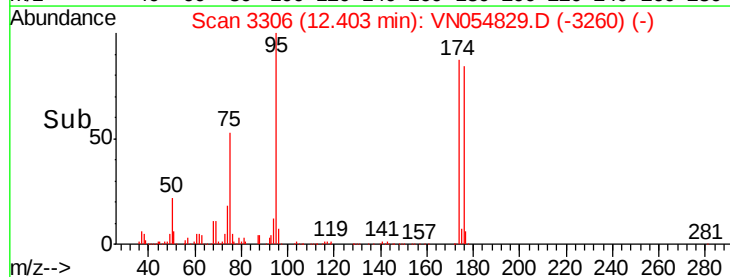
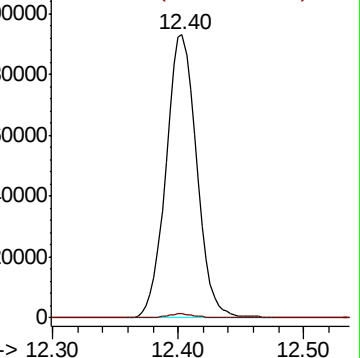
75 100

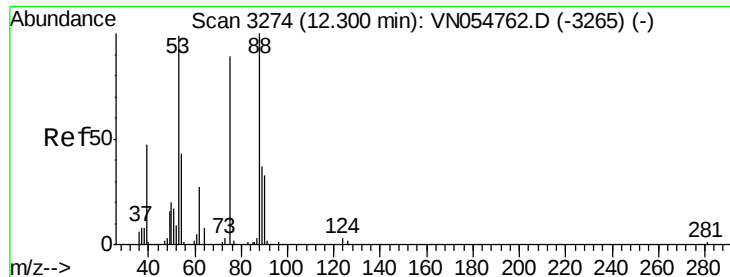
77 1.4 0.0 0.0#



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: 146.582 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

Instrument :

MSVOA_N

ClientSampleId :

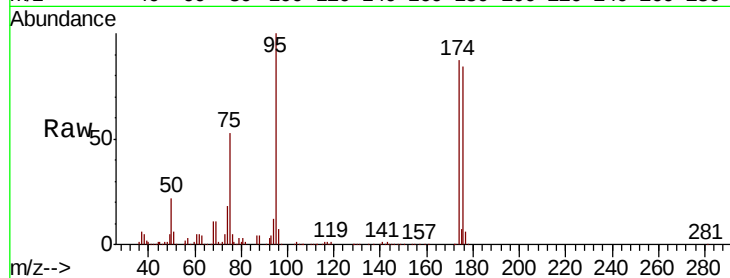
Tot Ion: 75 Resp: 158631

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

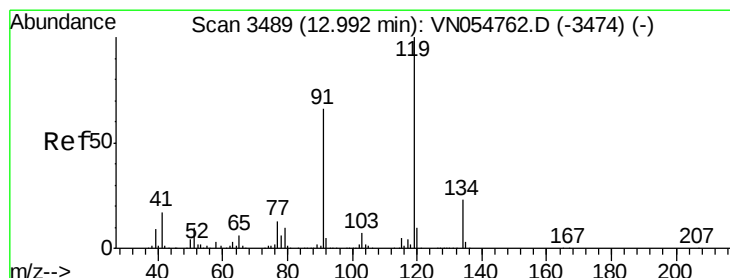
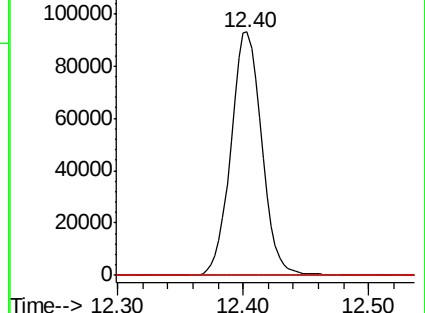
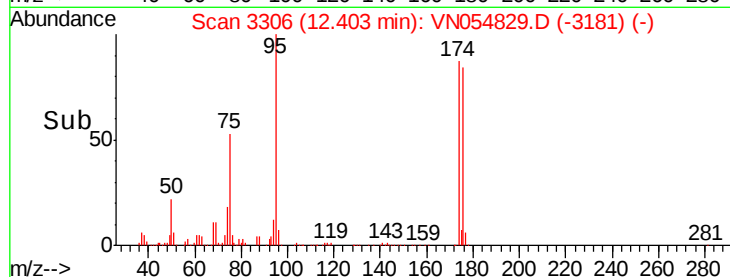
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054829.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054829.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054829.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN054829.D

Acq: 31 Mar 2019 3:57

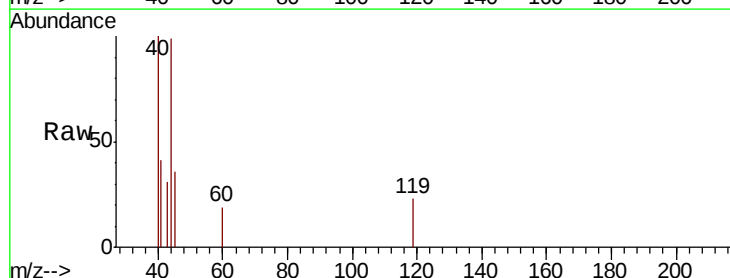
Tgt Ion: 119 Resp: 79

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): VN054829.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN054829.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN054829.D (-3396) (-)

