

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054784.D
 Acq On : 29 Mar 2019 21:31
 Operator : JC/SP
 Sample : K2139-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

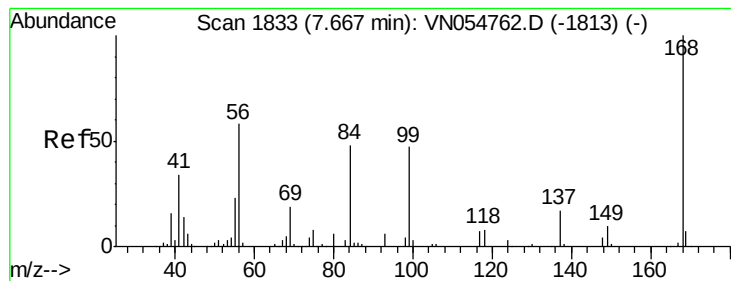
Quant Time: Mar 30 21:47:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	544847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	890009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	763485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276143	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	359351	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	7.59	113	282930	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	1066869	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
62) 4-Bromofluorobenzene	12.40	95	332928	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	237	Below Cal	#	2
8) Diethyl Ether	3.41	74	1058	0.391	ug/l #	12
13) Acrolein	3.61	56	310	0.906	ug/l #	65
16) Acetone	3.82	43	9665	5.518	ug/l	92
18) Methyl Acetate	4.33	43	1136	Below Cal	#	60
20) Methylene Chloride	4.55	84	20585	3.332	ug/l #	82
25) 2-Butanone	6.87	43	1443	0.557	ug/l	90
29) Tetrahydrofuran	7.22	42	902	0.502	ug/l #	35
31) Cyclohexane	7.66	56	11446	Below Cal	#	11
36) 1,1-Dichloropropene	7.66	75	41930	5.056	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50123	6.223	ug/l #	17
43) Isopropyl Acetate	8.17	43	17023	1.723	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1701	0.251	ug/l #	43
48) Methyl methacrylate	9.27	41	133576	24.937	ug/l #	39
51) 4-Methyl-2-Pentanone	10.03	43	8690	1.564	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	54327	6.112	ug/l #	71
57) 1,3-Dichloropropane	10.77	76	10638	1.179	ug/l #	43
59) 2-Hexanone	10.77	43	176041	49.497	ug/l #	47
74) N-amyl acetate	11.88	43	17498	2.488	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.50	83	97	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	172028	35.860	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172028	139.485	ug/l #	11
83) tert-Butylbenzene	12.99	119	257	Below Cal	#	38
94) Hexachlorobutadiene	15.00	225	65	Below Cal	#	19

(#) = 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: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

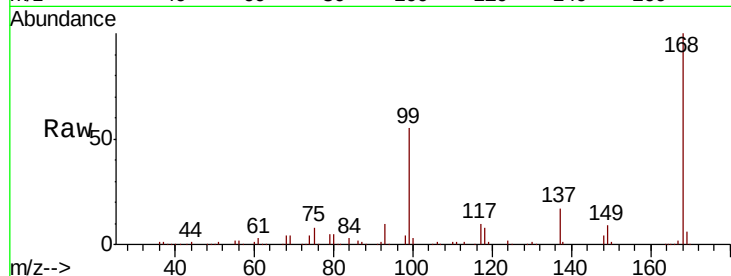
ClientSampleId :

Tot Ion:168 Resp: 544847

Ion Ratio Lower Upper

168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054762.D (-1813) (-)

7.67

250000

200000

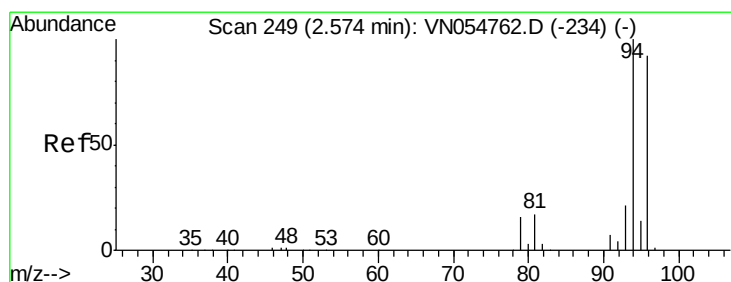
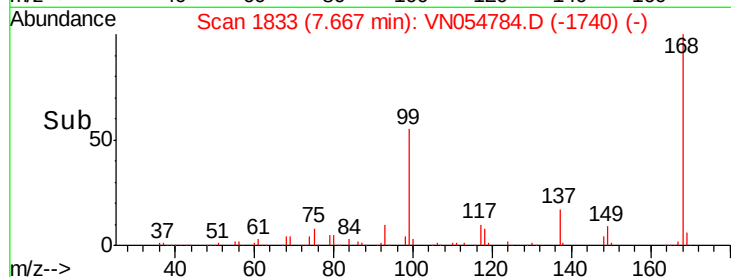
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054784.D

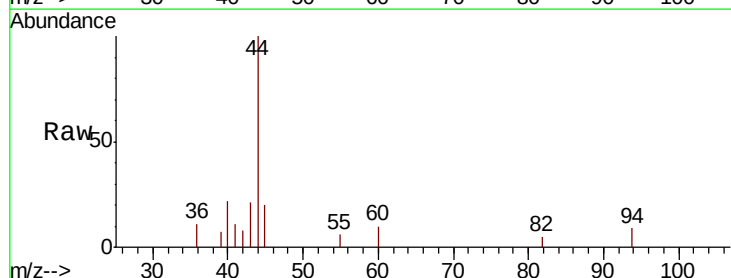
Acq: 29 Mar 2019 21:31

Tgt Ion: 94 Resp: 237

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054762.D (-234) (-)

2.58

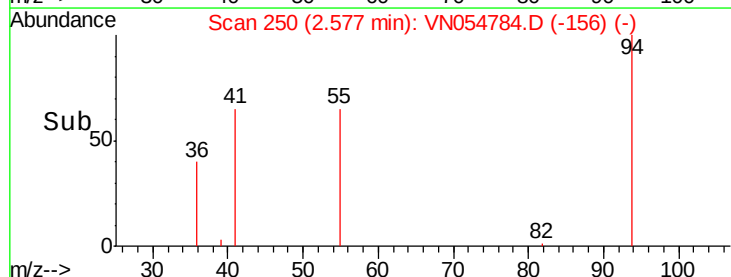
300

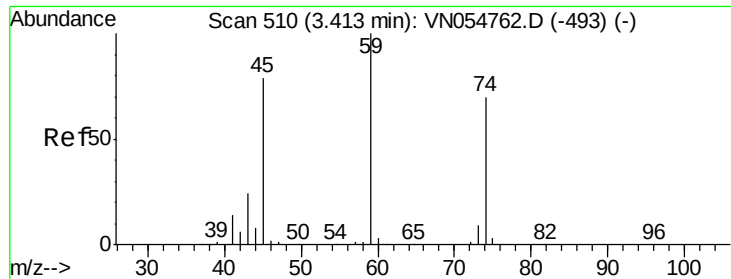
200

100

0

Time-->

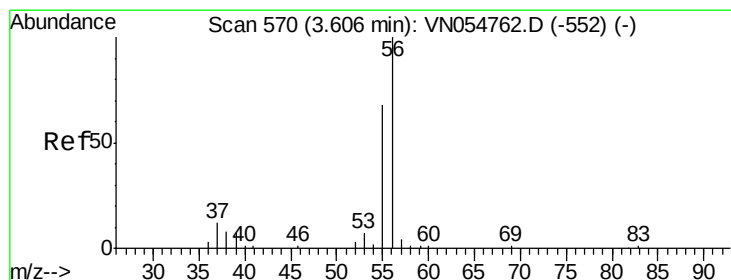
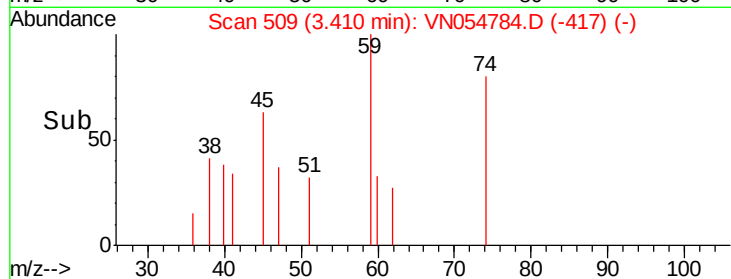
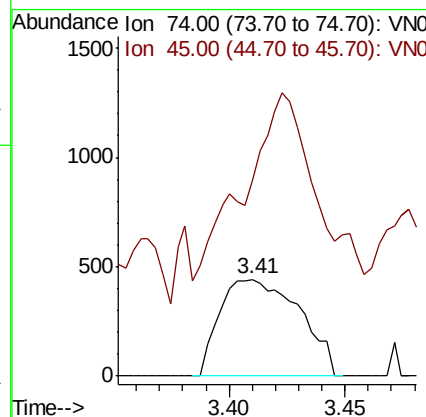
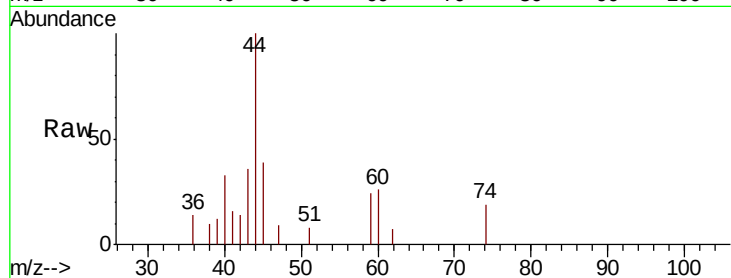




#8
Diethyl Ether
Concen: 0.391 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

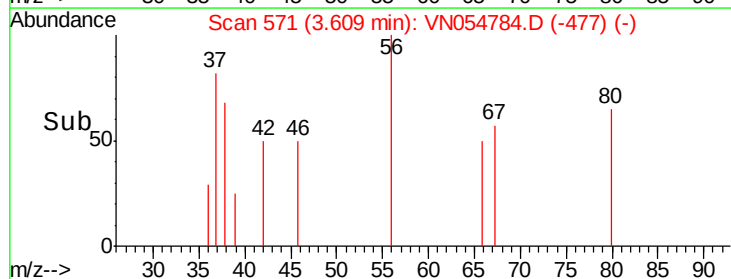
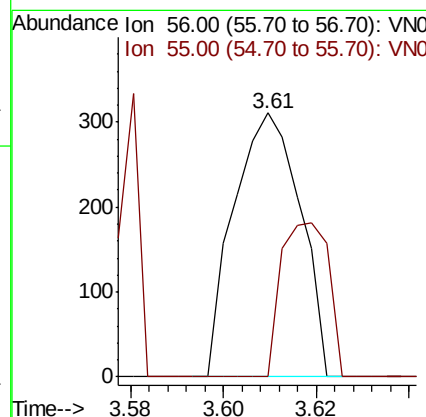
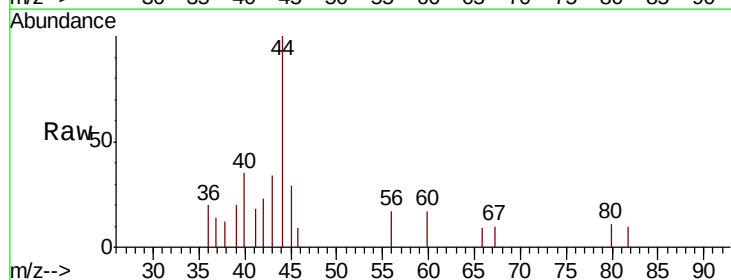
Instrument :
MSVOA_N
ClientSampled :

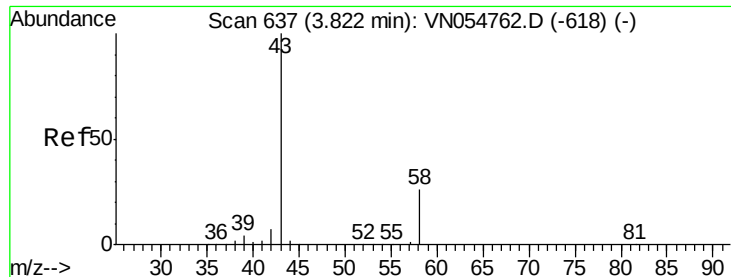
Tot Ion: 74 Resp: 1058
Ion Ratio Lower Upper
74 100
45 167.5 43.1 129.4#



#13
Acrolein
Concen: 0.906 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

Tgt Ion: 56 Resp: 310
Ion Ratio Lower Upper
56 100
55 41.6 56.7 85.1#





#16

Acetone

Concen: 5.518 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

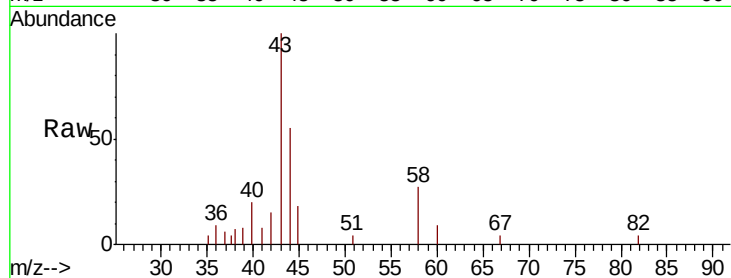
ClientSampled :

Tot Ion: 43 Resp: 9665

Ion Ratio Lower Upper

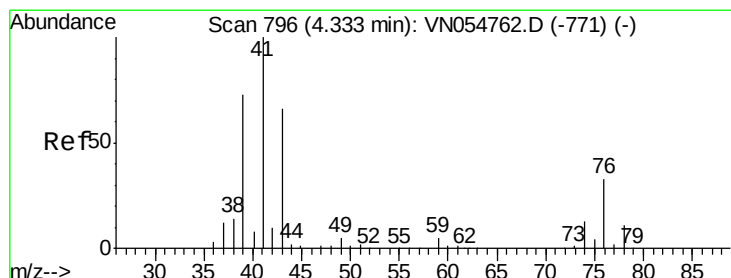
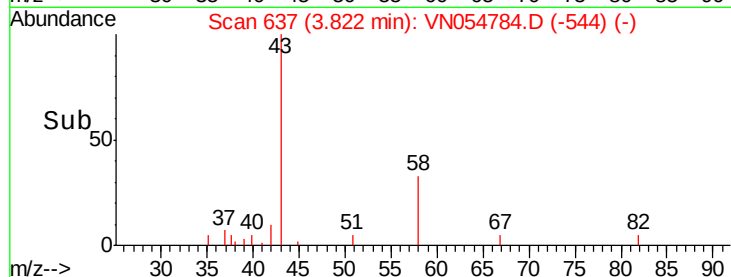
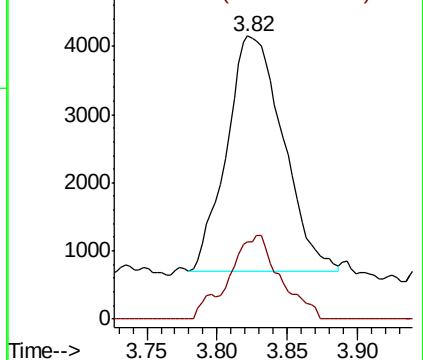
43 100

58 32.8 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. -0.01 min

Lab File: VN054784.D

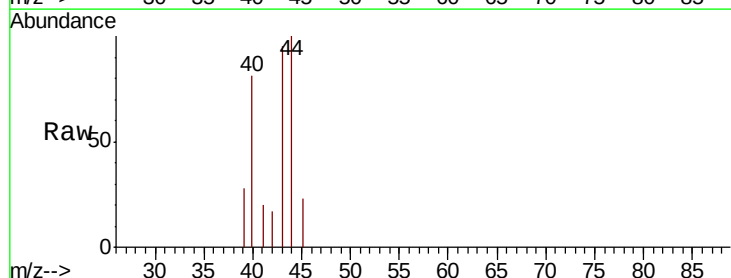
Acq: 29 Mar 2019 21:31

Tgt Ion: 43 Resp: 1136

Ion Ratio Lower Upper

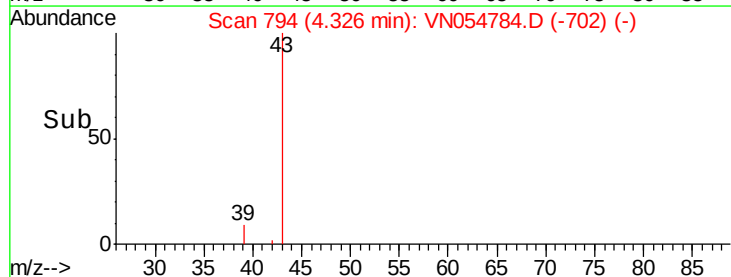
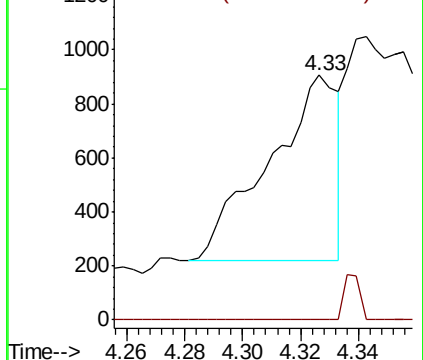
43 100

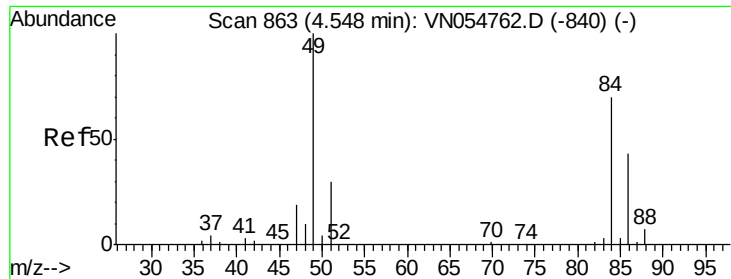
74 5.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

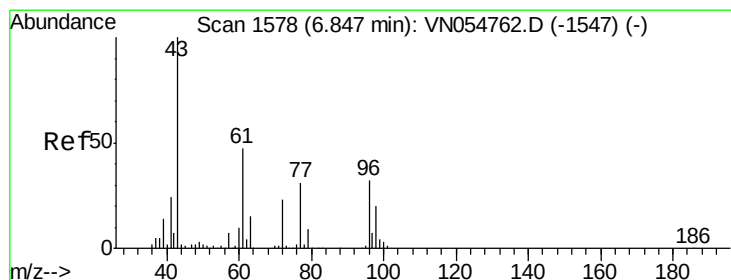
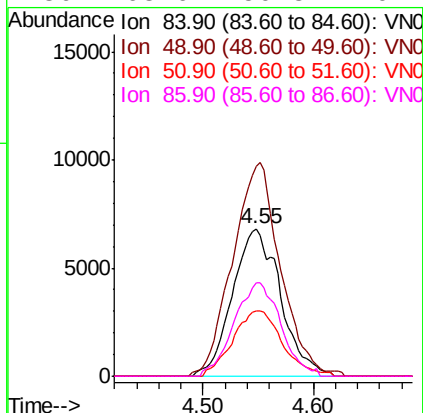
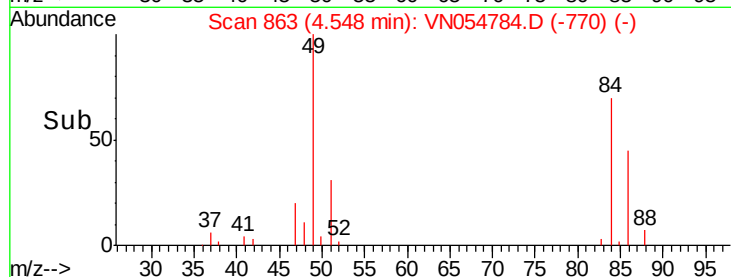
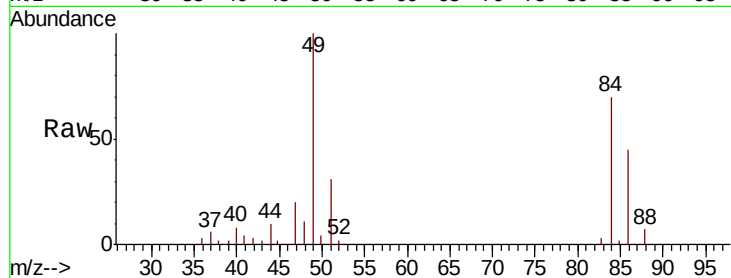




#20
Methvlene Chloride
Concen: 3.332 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

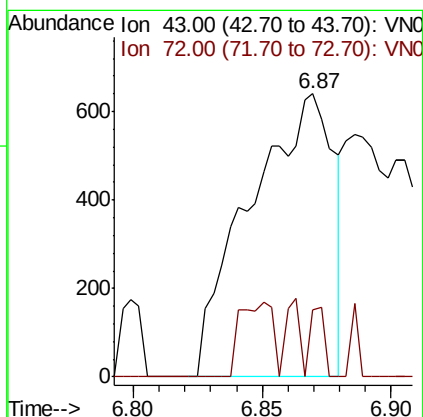
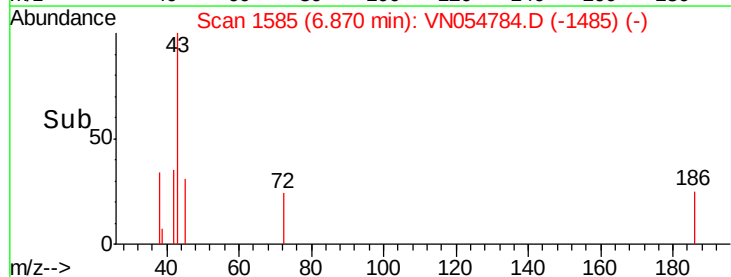
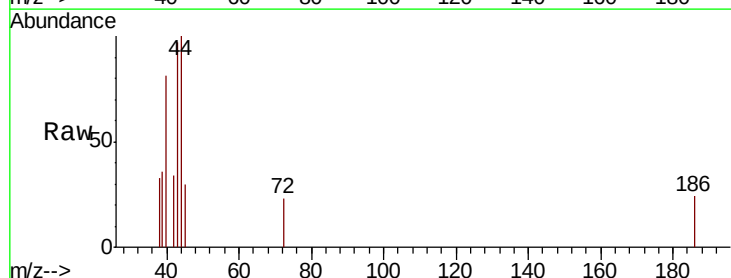
Instrument :
MSVOA_N
ClientSampled :

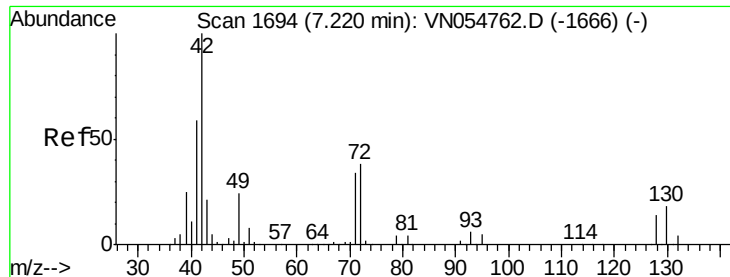
Tot Ion: 84 Resp: 20585
Ion Ratio Lower Upper
84 100
49 142.3 89.7 134.5#
51 44.1 28.2 42.4#
86 63.6 50.8 76.2



#25
2-Butanone
Concen: 0.557 ug/l
RT: 6.87 min Scan# 1585
Delta R.T. 0.02 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

Tgt Ion: 43 Resp: 1443
Ion Ratio Lower Upper
43 100
72 23.6 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.502 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

ClientSampleId :

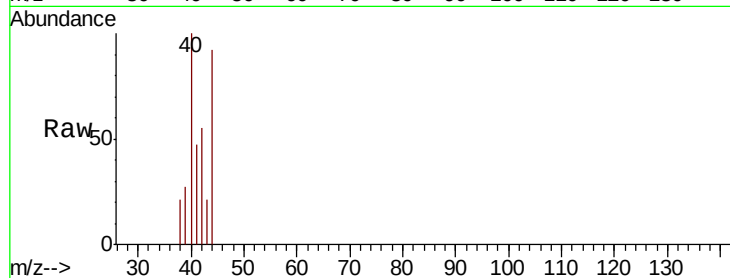
Tot Ion: 42 Resp: 902

Ion Ratio Lower Upper

42 100

72 6.7 37.8 56.6#

71 0.0 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

600

500

400

300

200

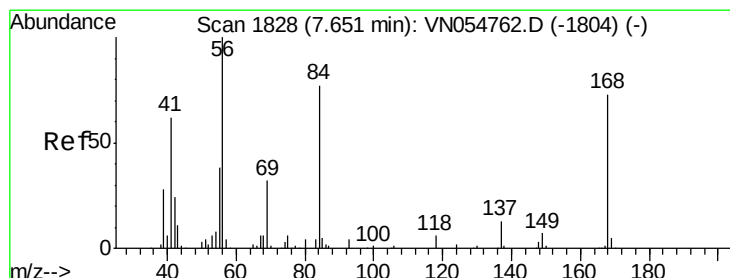
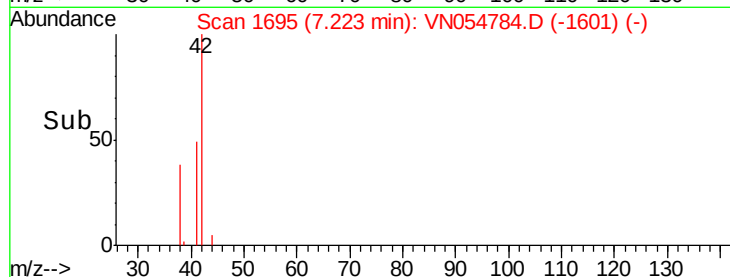
100

0

7.22

7.25

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

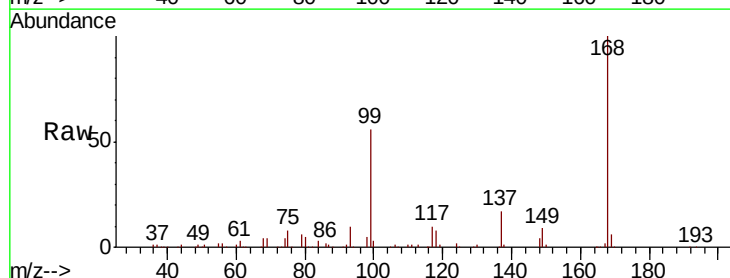
Tgt Ion: 56 Resp: 11446

Ion Ratio Lower Upper

56 100

69 172.8 27.8 41.6#

84 124.5 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

10000

8000

6000

4000

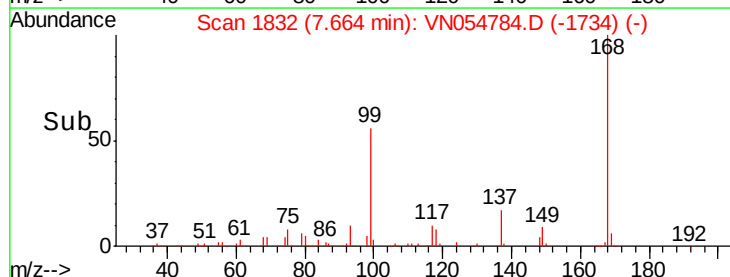
2000

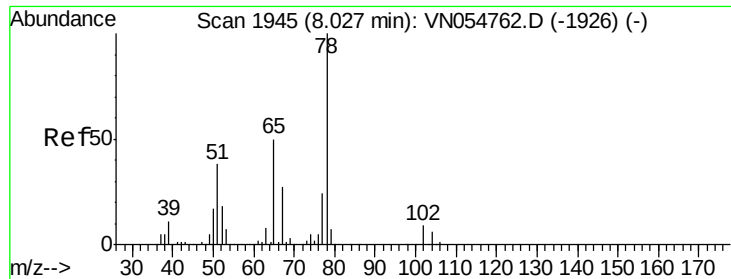
0

7.66

7.70

Time-->

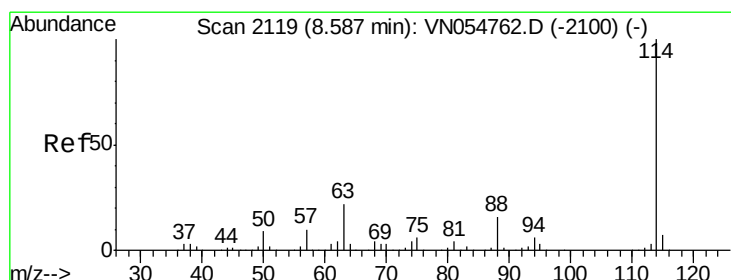
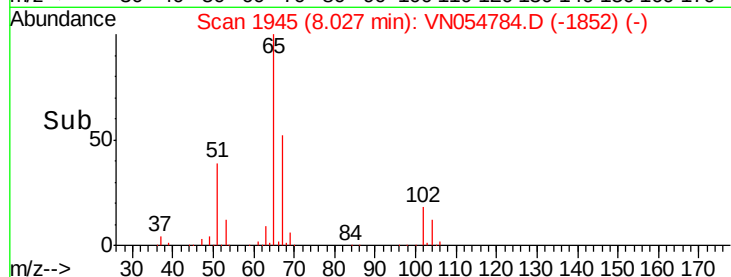
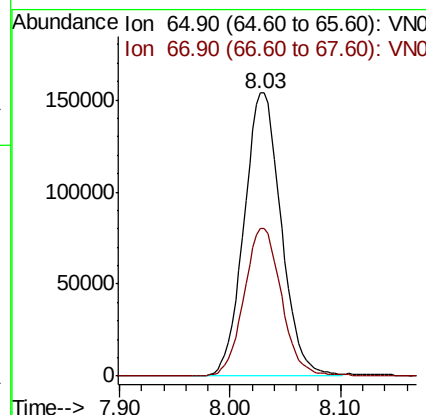
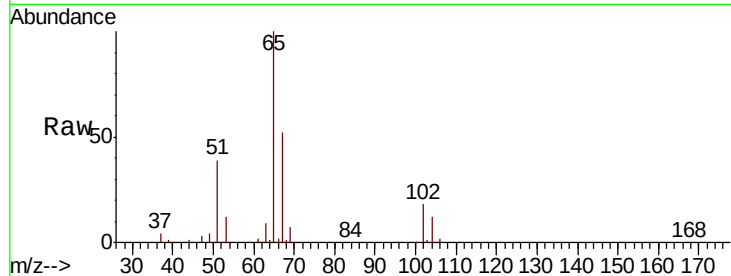




#33
 1,2-Dichloroethane-d4
 Concen: 48.927 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

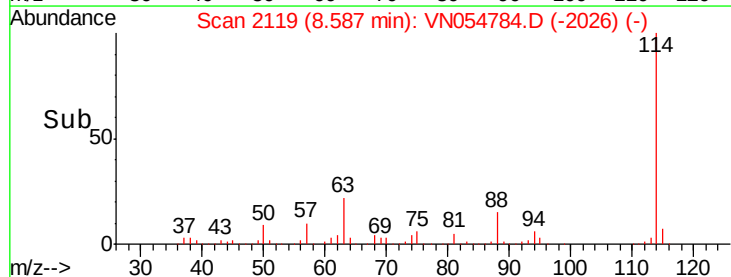
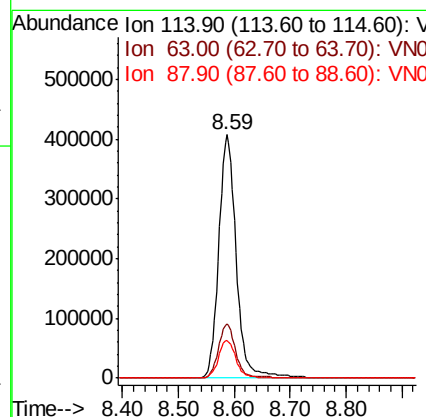
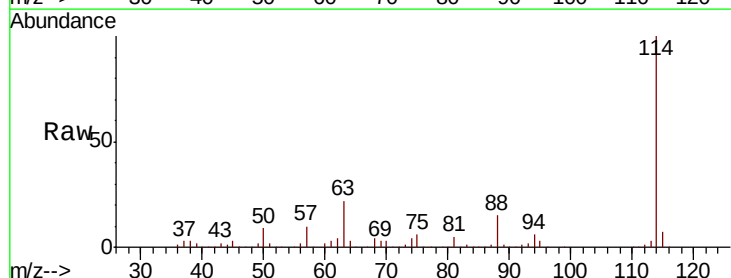
Instrument :
 MSVOA_N
 ClientSampleId :

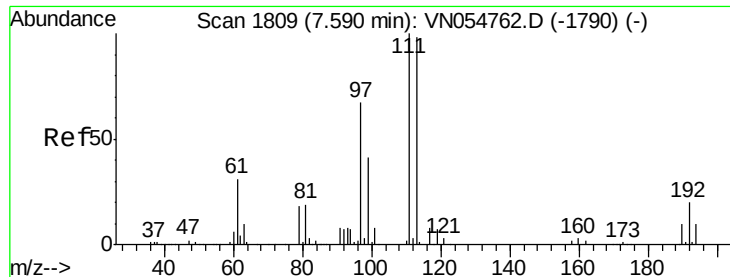
Tot Ion: 65 Resp: 359351
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

Tgt Ion: 114 Resp: 890009
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.4 0.0 30.2

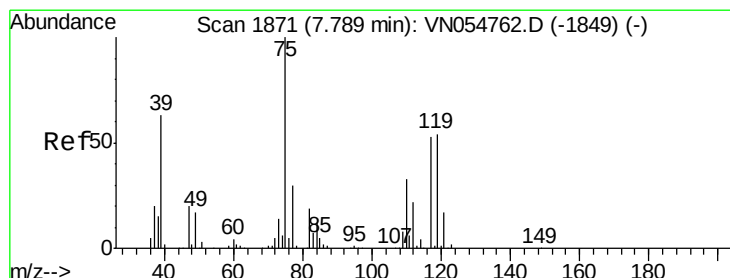
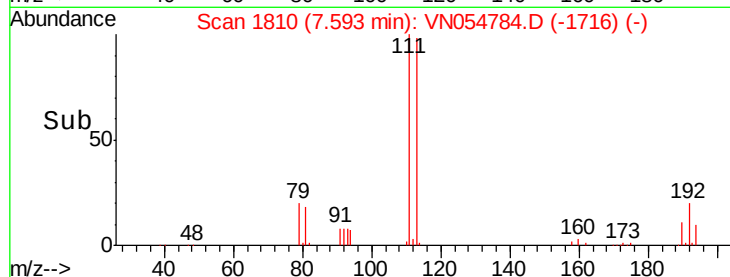
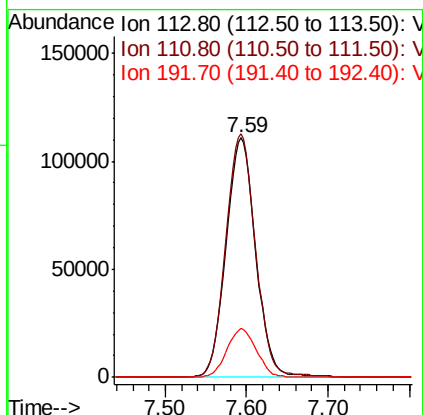
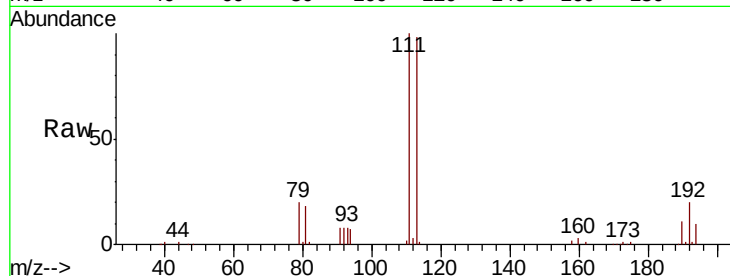




#35
 Dibromofluoromethane
 Concen: 47.683 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

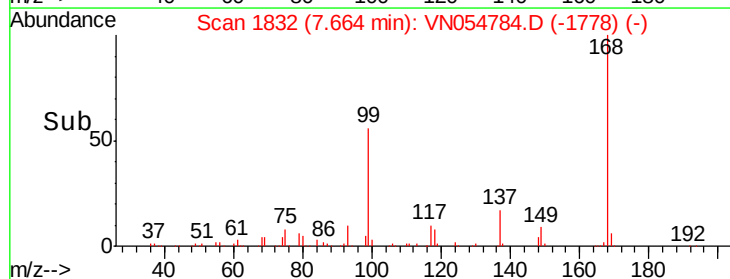
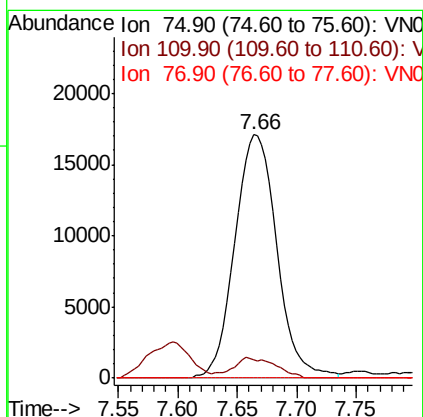
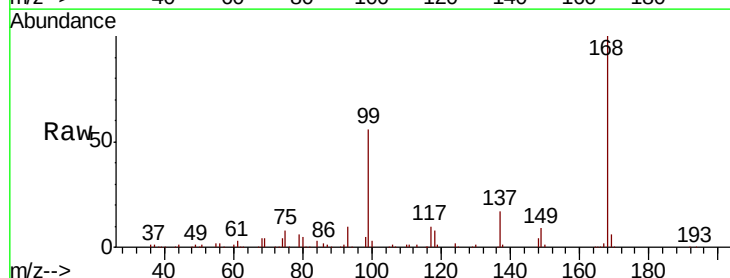
Instrument :
 MSVOA_N
 ClientSampleId :

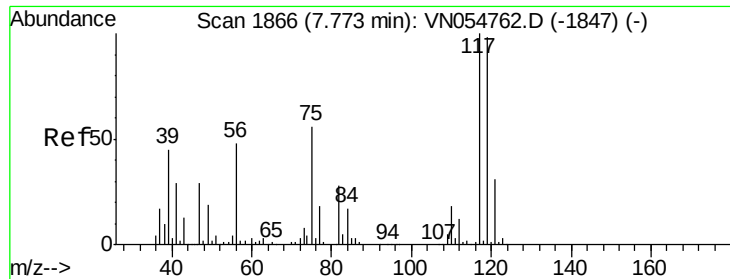
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.2	123.4
192	20.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.056 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.223 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :
MSVOA_N
ClientSampled :

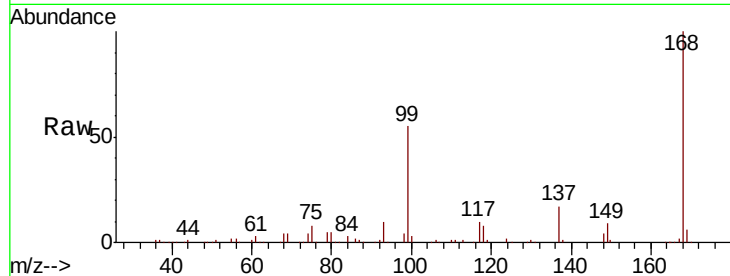
Tot Ion:117 Resp: 50123

Ion Ratio Lower Upper

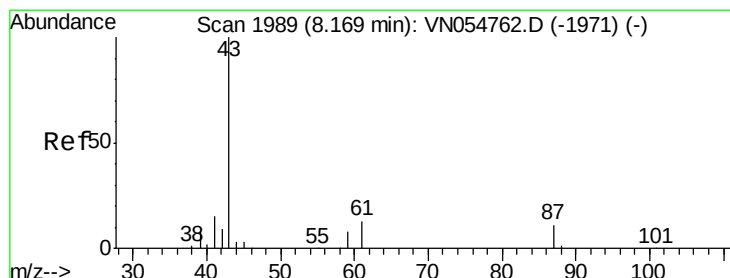
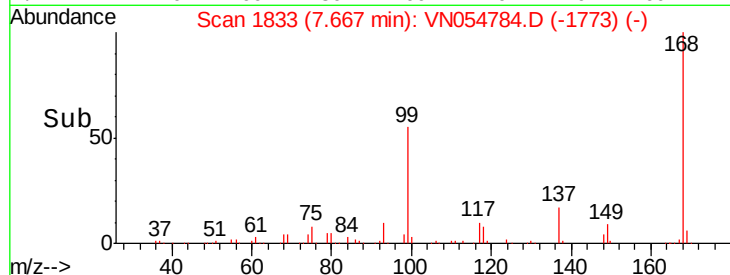
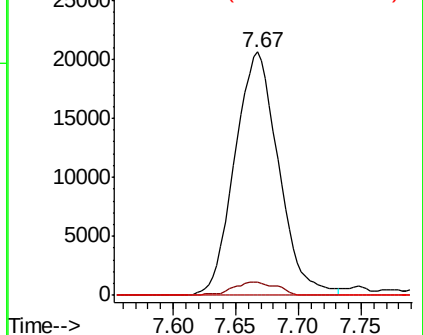
117 100

119 5.6 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: 1.723 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

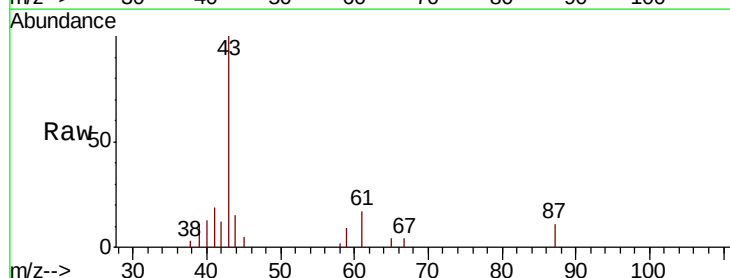
Tgt Ion: 43 Resp: 17023

Ion Ratio Lower Upper

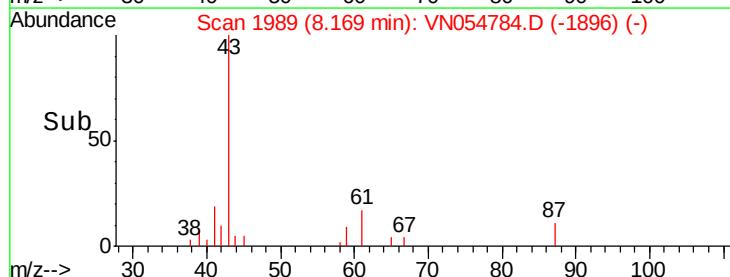
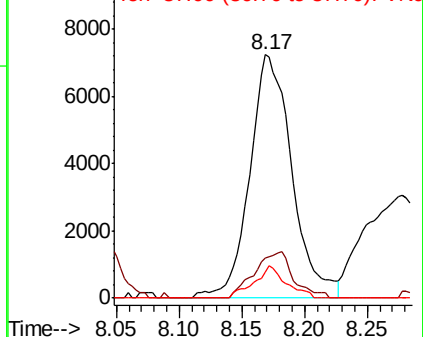
43 100

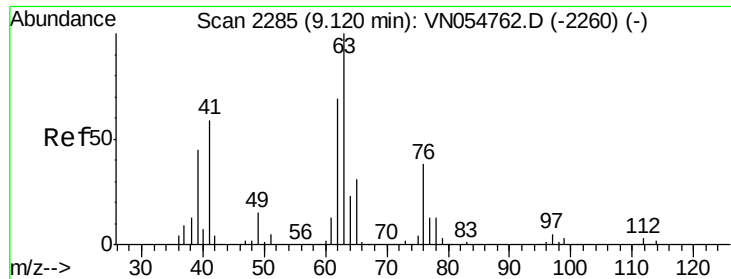
61 17.6 15.8 23.8

87 10.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

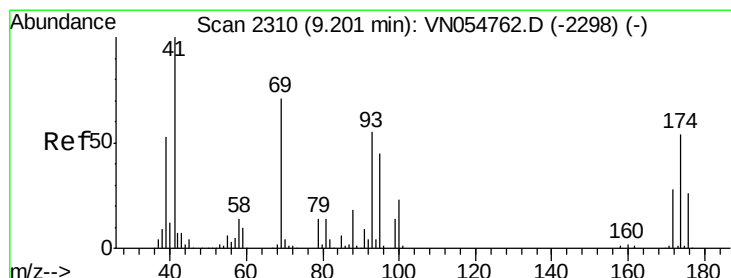
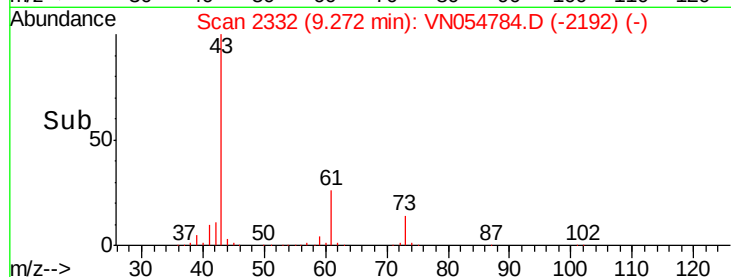
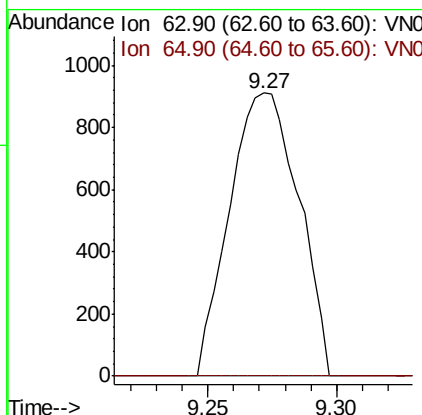
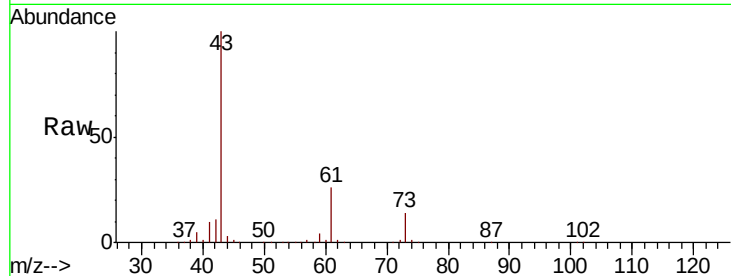




#45
 1,2-Dichloropropane
 Concen: 0.251 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

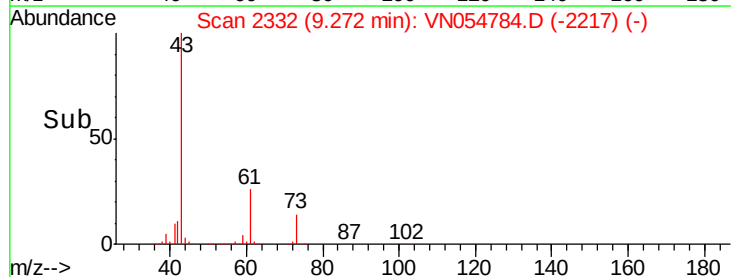
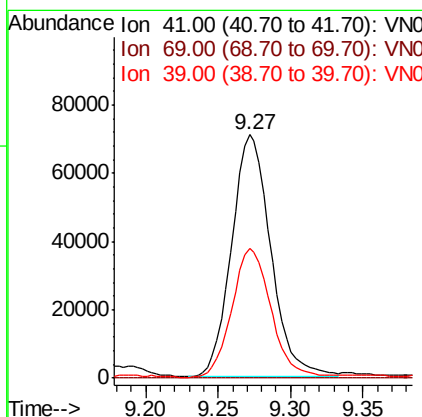
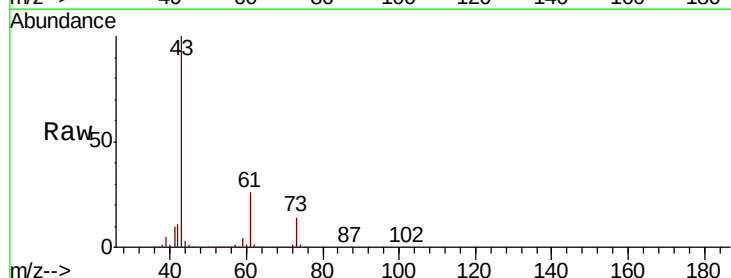
Instrument :
 MSVOA_N
 ClientSampleId :

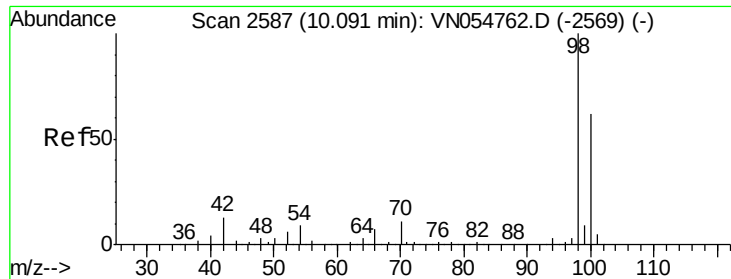
Tot Ion: 63 Resp: 1701
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 24.937 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.07 min
 Lab File: VN054784.D
 Acq: 29 Mar 2019 21:31

Tgt Ion: 41 Resp: 133576
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 52.6 47.5 71.3

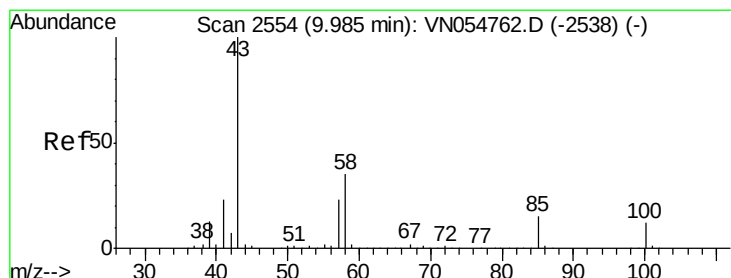
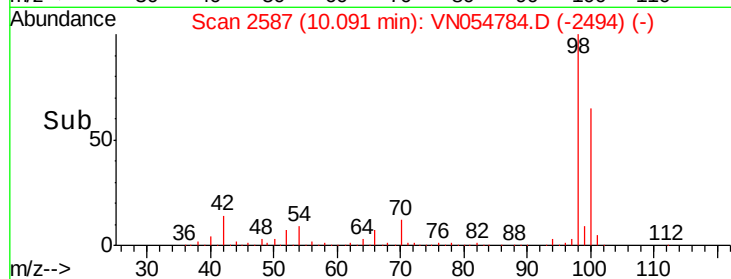
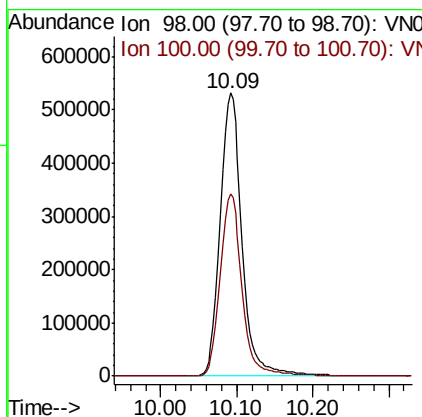
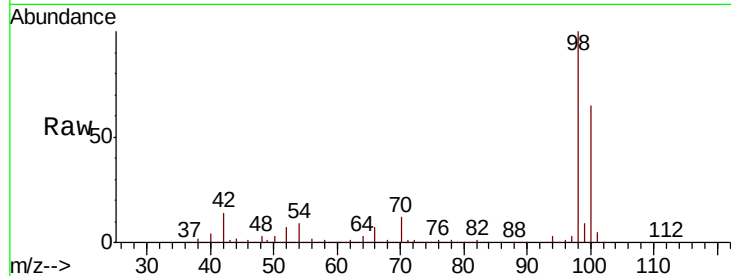




#50
Toluene-d8
Concen: 48.362 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

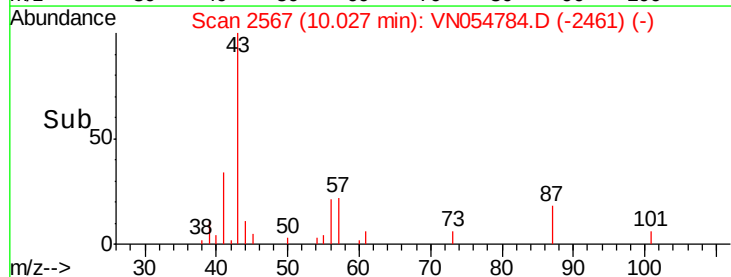
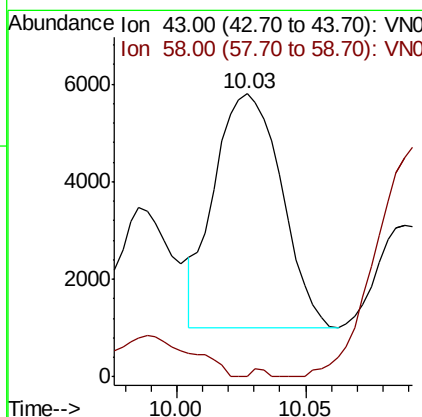
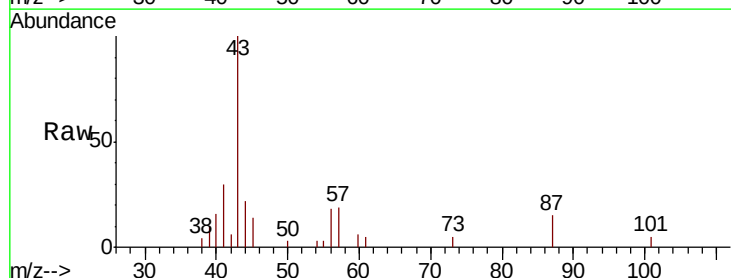
Instrument :
MSVOA_N
ClientSampled :

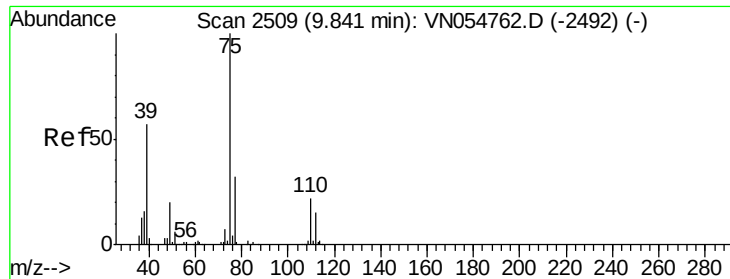
Tot Ion: 98 Resp: 1066869
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.564 ug/l
RT: 10.03 min Scan# 2567
Delta R.T. 0.04 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

Tgt Ion: 43 Resp: 8690
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 6.112 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

ClientSampleId :

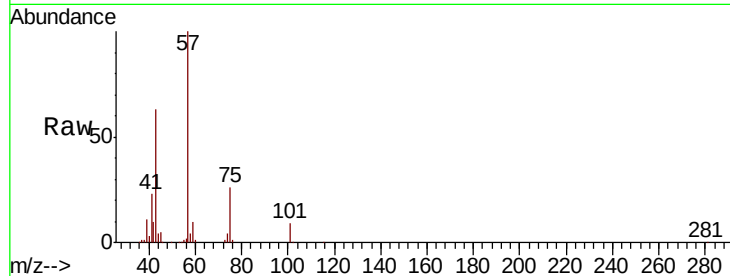
Tot Ion: 75 Resp: 54327

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

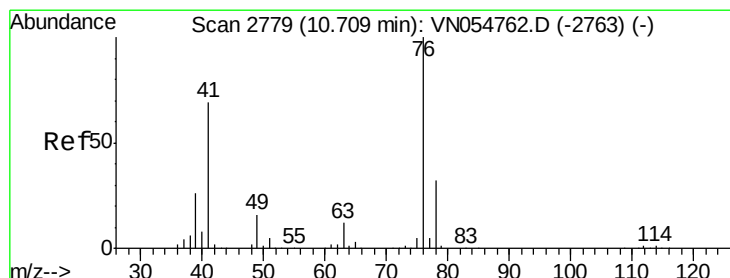
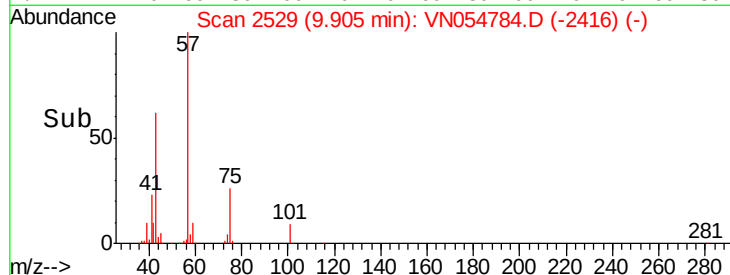
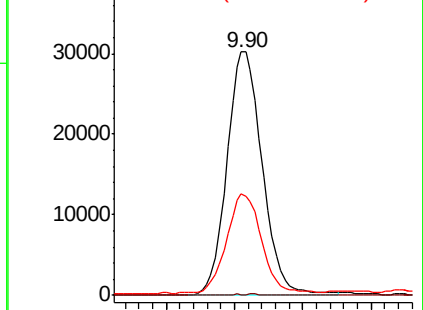
39 40.5 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.179 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054784.D

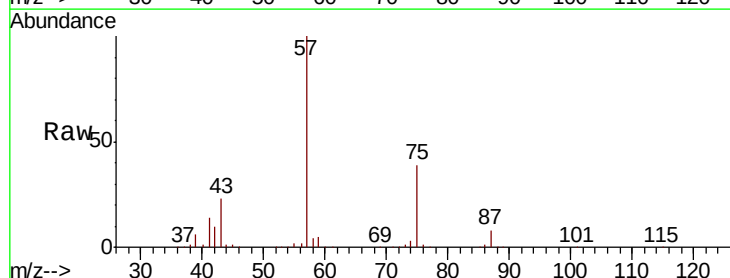
Acq: 29 Mar 2019 21:31

Tgt Ion: 76 Resp: 10638

Ion Ratio Lower Upper

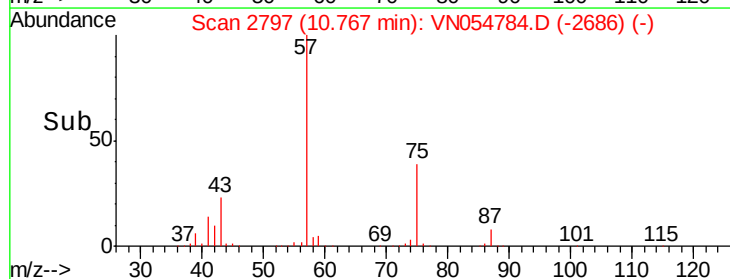
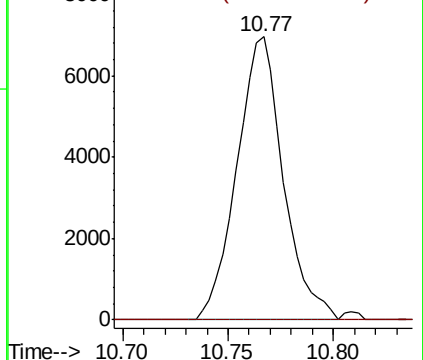
76 100

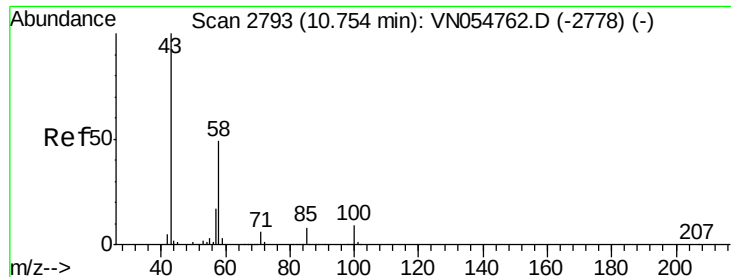
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

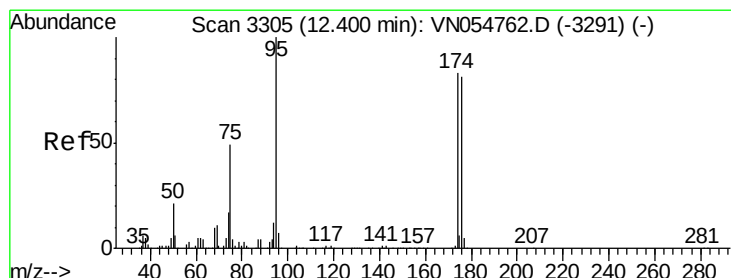
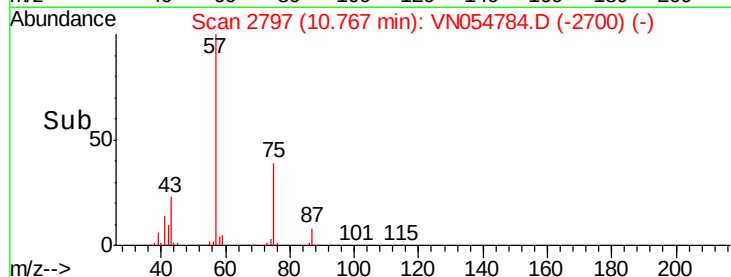
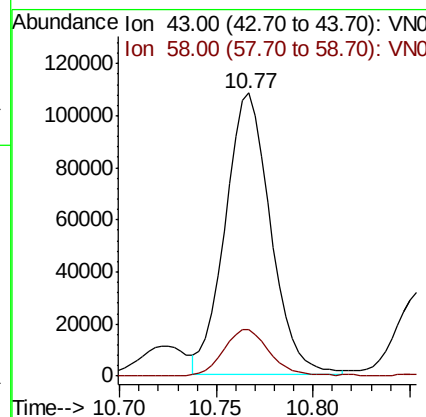
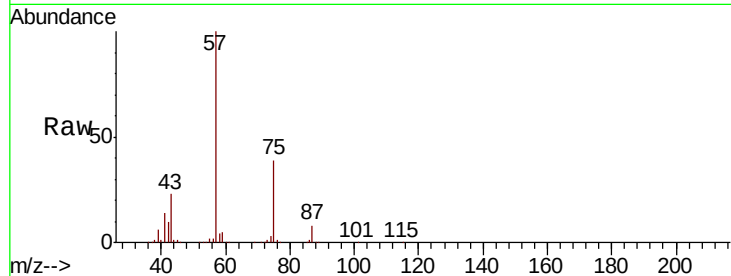




#59
2-Hexanone
Concen: 49.497 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

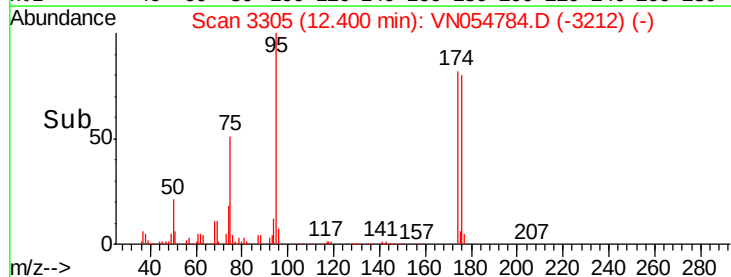
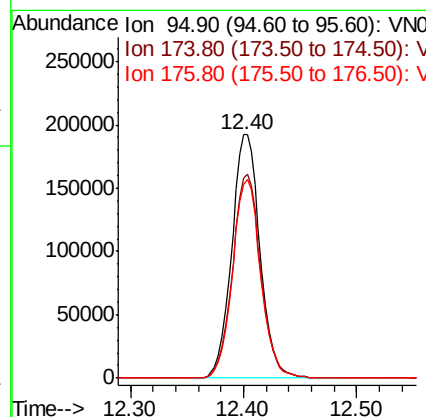
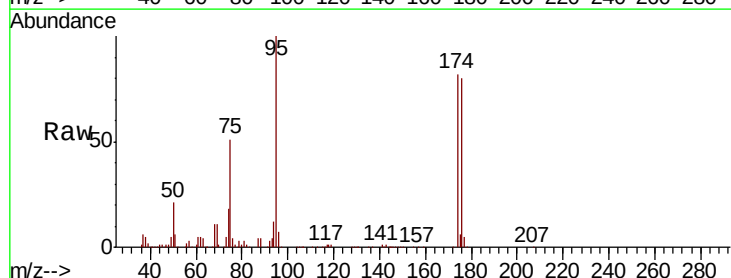
Instrument :
MSVOA_N
ClientSampled :

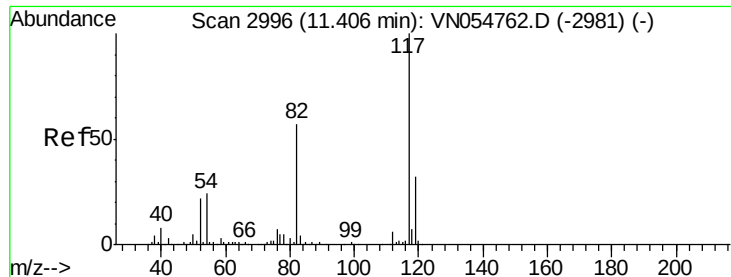
Tot Ion: 43 Resp: 176041
Ion Ratio Lower Upper
43 100
58 17.0 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 45.379 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

Tgt Ion: 95 Resp: 332928
Ion Ratio Lower Upper
95 100
174 83.8 0.0 191.0
176 81.4 0.0 187.4

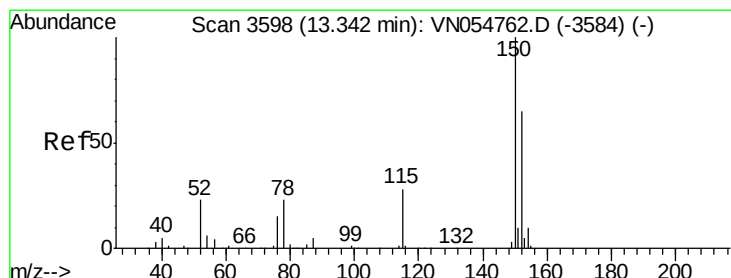
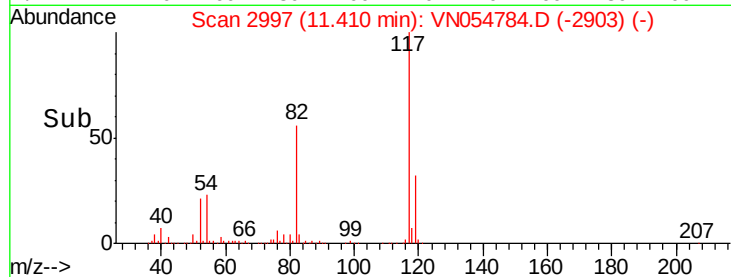
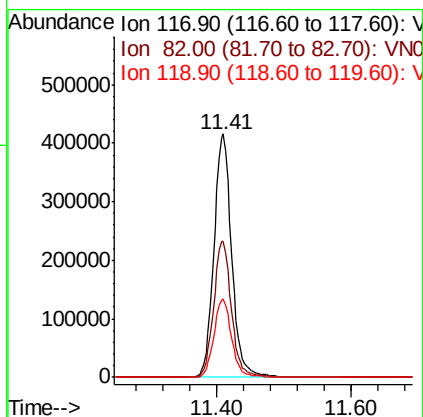
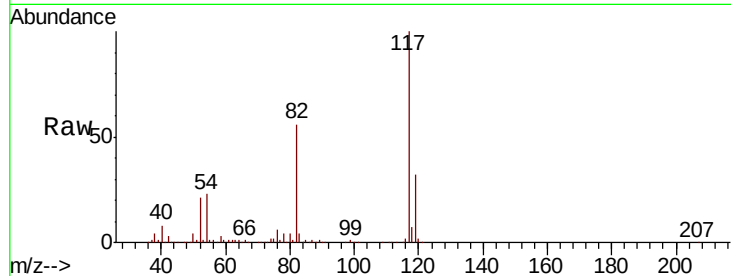




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

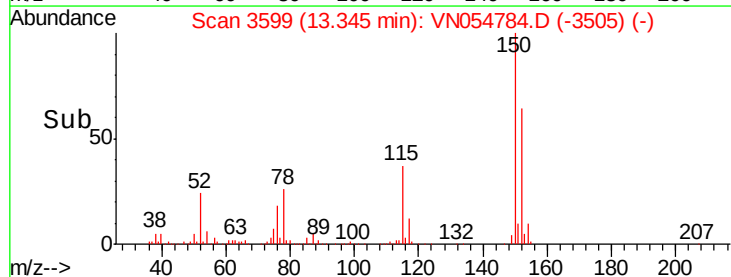
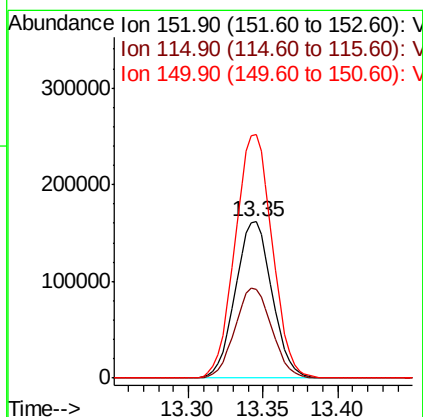
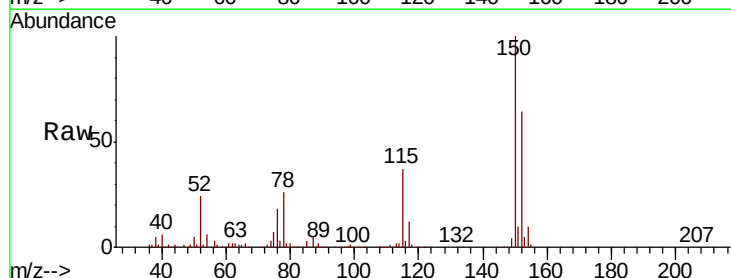
Instrument :
MSVOA_N
ClientSampleId :

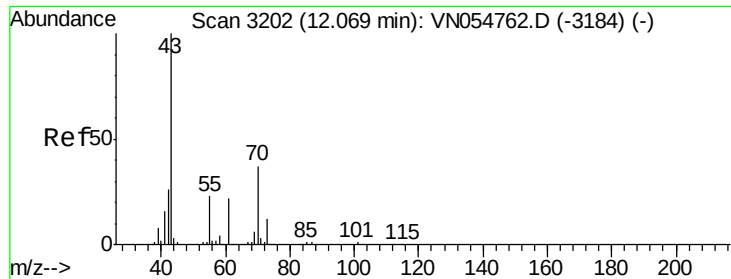
Tot Ion:117 Resp: 763485
Ion Ratio Lower Upper
117 100
82 55.7 40.0 60.0
119 32.0 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054784.D
Acq: 29 Mar 2019 21:31

Tgt Ion:152 Resp: 276143
Ion Ratio Lower Upper
152 100
115 58.0 27.2 81.6
150 157.7 0.0 349.2





#74

N-amvl acetate

Concen: 2.488 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 17498

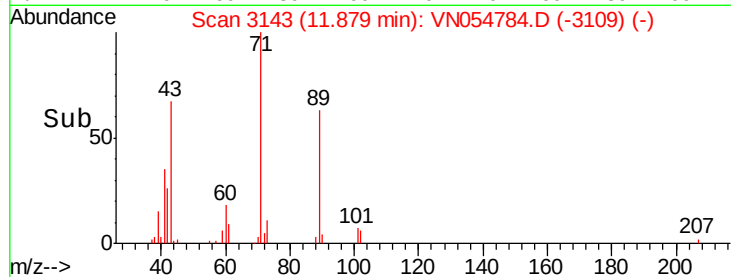
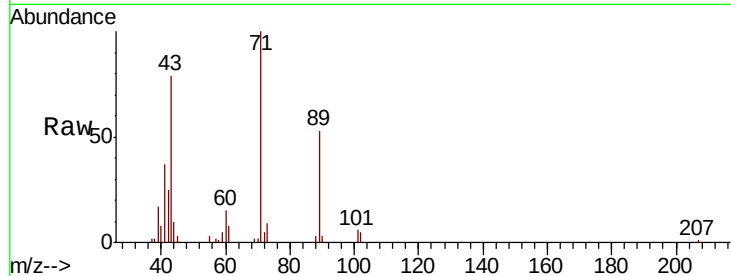
Ion Ratio Lower Upper

43 100

70 1.3 35.4 53.0#

55 4.1 19.8 29.6#

61 8.7 19.8 29.6#

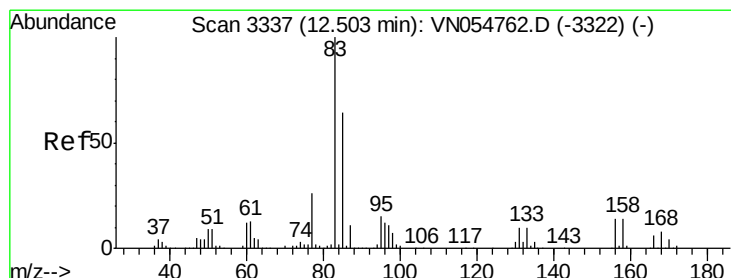
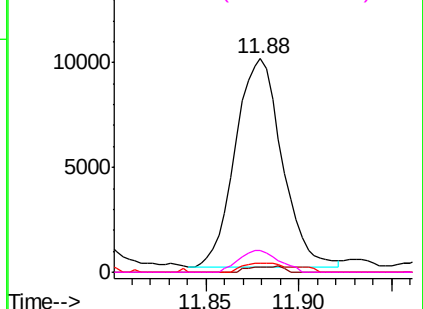


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

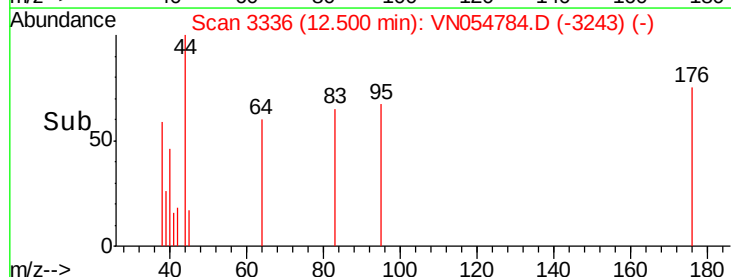
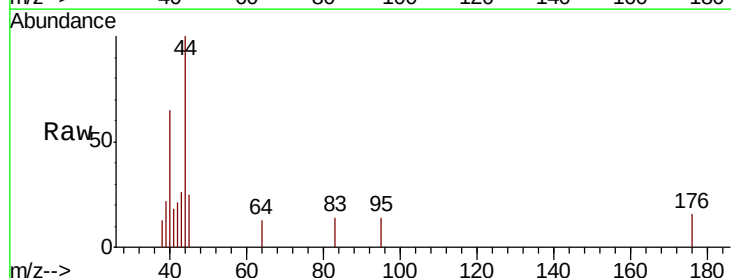
Tgt Ion: 83 Resp: 97

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

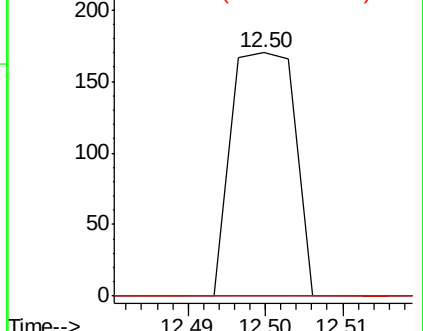
85 0.0 32.2 96.6#

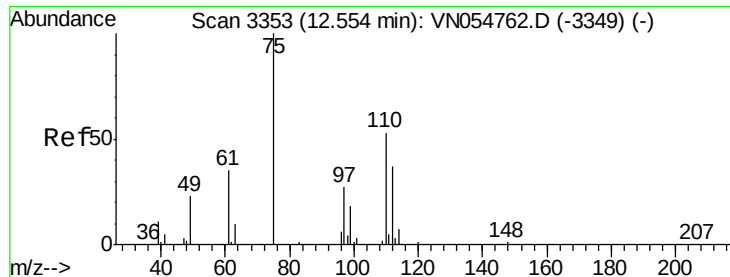


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 35.860 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

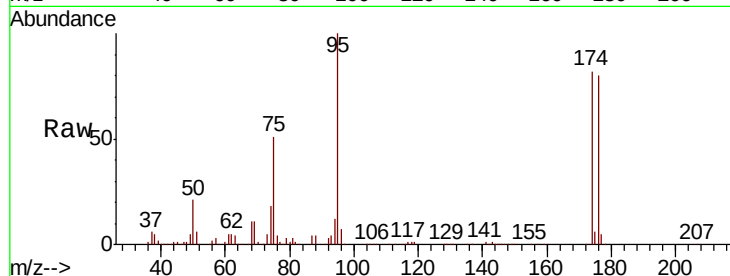
ClientSampleId :

Tot Ion: 75 Resp: 172028

Ion Ratio Lower Upper

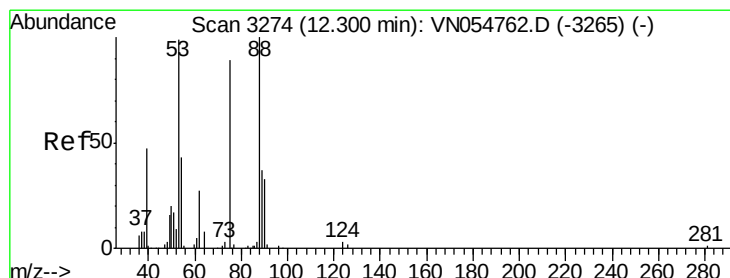
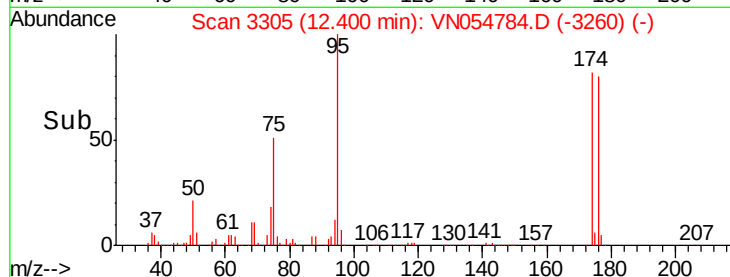
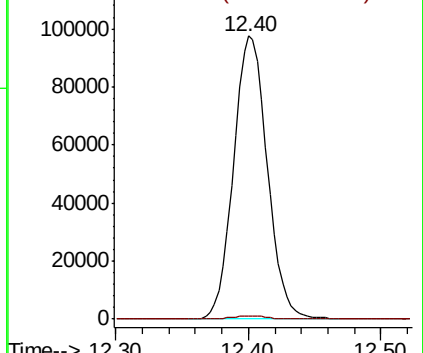
75 100

77 1.1 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: 139.485 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

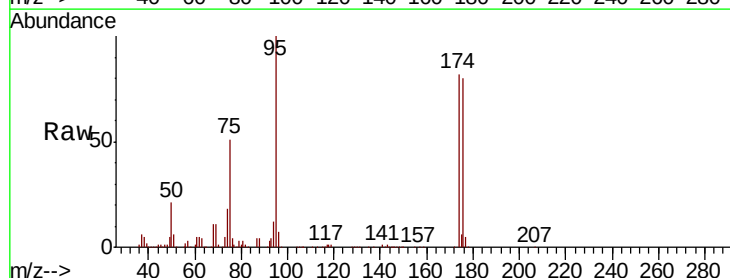
Tgt Ion: 75 Resp: 172028

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

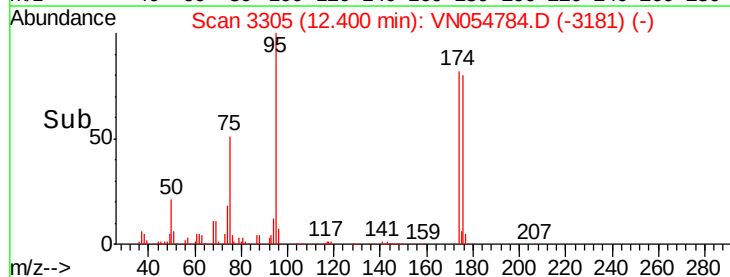
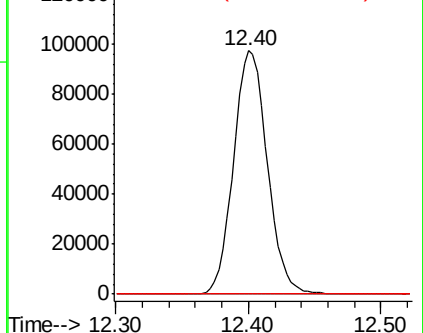
89 0.0 39.2 58.8#

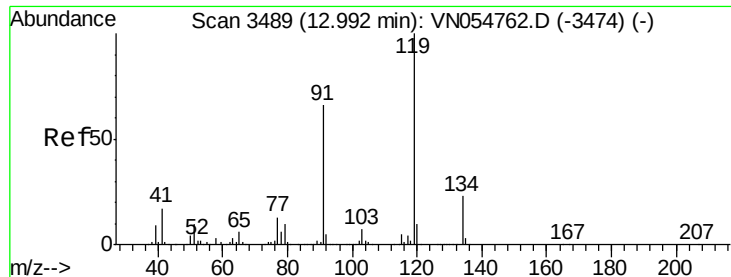


Abundance Ion 74.90 (74.60 to 75.60): VN0

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# 3490

Delta R.T. 0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

Instrument :

MSVOA_N

ClientSampled :

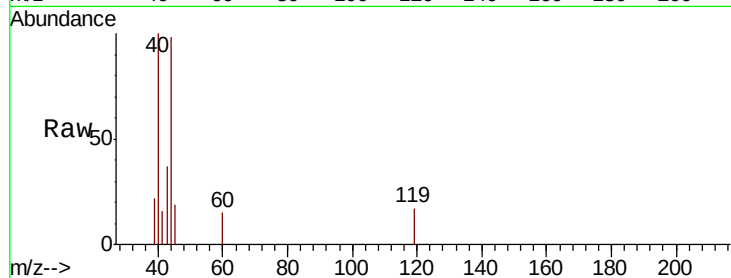
Tot Ion:119 Resp: 257

Ion Ratio Lower Upper

119 100

91 11.3 30.9 92.8#

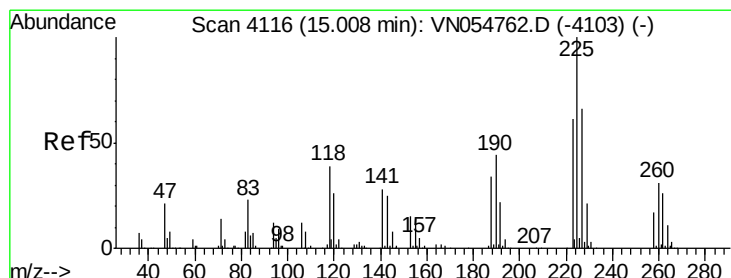
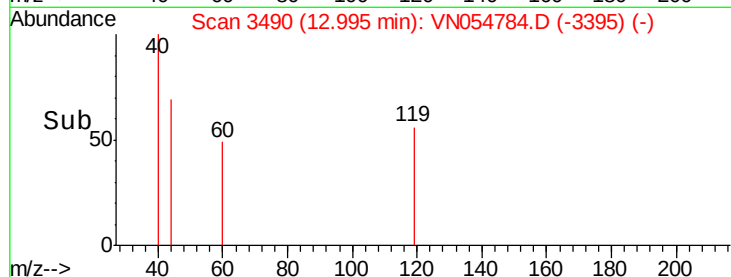
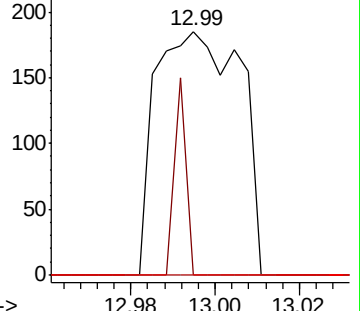
134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054784.D

Acq: 29 Mar 2019 21:31

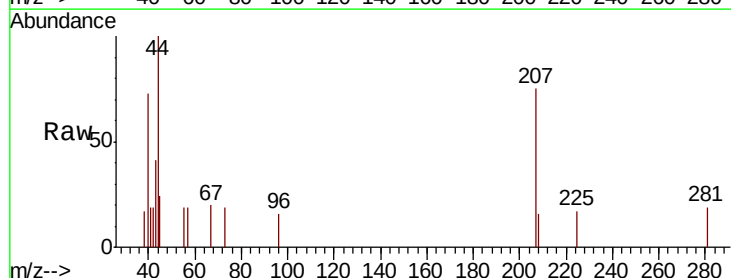
Tgt Ion:225 Resp: 65

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 0.0 31.9 95.9#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

