

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032519\
 Data File : VN054672.D
 Acq On : 25 Mar 2019 15:00
 Operator : JC/SP
 Sample : K2050-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CS-2

Quant Time: Mar 26 01:26:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	570178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	918429	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	786075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	285368	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	375251	52.91	ug/l	0.00
Spiked Amount			Recovery	=	105.82%	
35) Dibromofluoromethane	7.59	113	287905	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	10.09	98	1105695	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	339382	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.81	59	156	0.363	ug/l #	70
16) Acetone	3.82	43	17794	8.345	ug/l	89
17) Carbon Disulfide	4.05	76	3906	0.265	ug/l	95
20) Methylene Chloride	4.55	84	16345	2.600	ug/l #	84
25) 2-Butanone	6.86	43	6166	2.257	ug/l #	82
29) Tetrahydrofuran	7.21	42	509	0.287	ug/l #	77
31) Cyclohexane	7.67	56	12477	Below Cal	#	28
36) 1,1-Dichloropropene	7.67	75	43311	5.044	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54466	6.527	ug/l #	16
43) Isopropyl Acetate	8.17	43	17928	1.738	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1328	0.201	ug/l #	43
48) Methyl methacrylate	9.18	41	7924	1.415	ug/l #	24
49) 1,4-Dioxane	9.27	88	169	2.700	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	4259	0.745	ug/l	92
53) t-1,3-Dichloropropene	10.12	75	61	2.239	ug/l #	42
54) cis-1,3-Dichloropropene	9.90	75	42743	4.566	ug/l #	75
57) 1,3-Dichloropropane	10.76	76	7620	0.807	ug/l #	43
59) 2-Hexanone	10.77	43	119998	32.137	ug/l #	49
71) Bromoform	12.40	173	3300	3.018	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	176404	38.955	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176404	128.946	ug/l #	11

(#) = 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: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

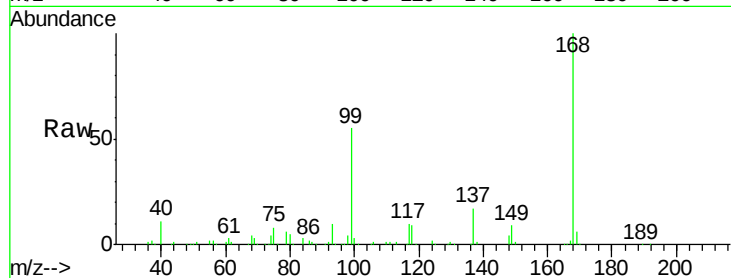
CS-2

Tot Ion:168 Resp: 570178

Ion Ratio Lower Upper

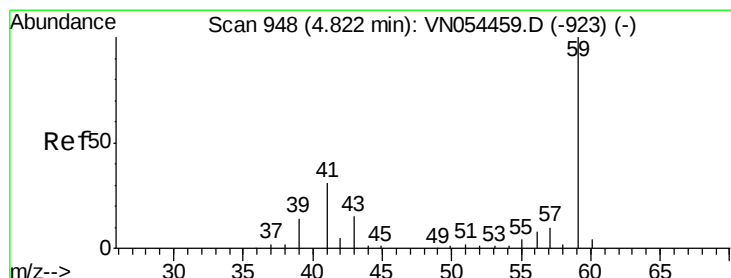
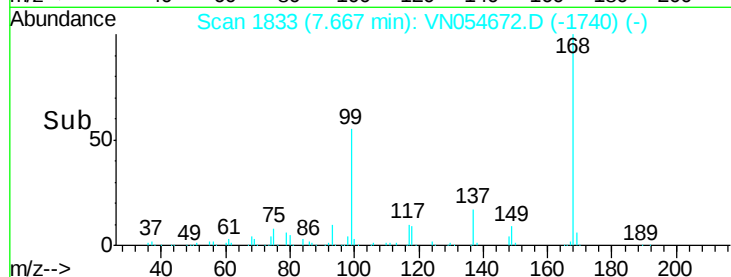
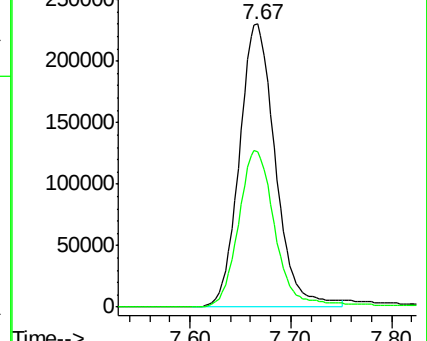
168 100

99 54.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.363 ug/l

RT: 4.81 min Scan# 945

Delta R.T. -0.01 min

Lab File: VN054672.D

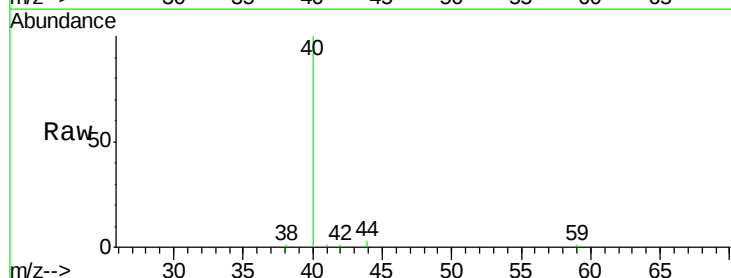
Acq: 25 Mar 2019 15:00

Tgt Ion: 59 Resp: 156

Ion Ratio Lower Upper

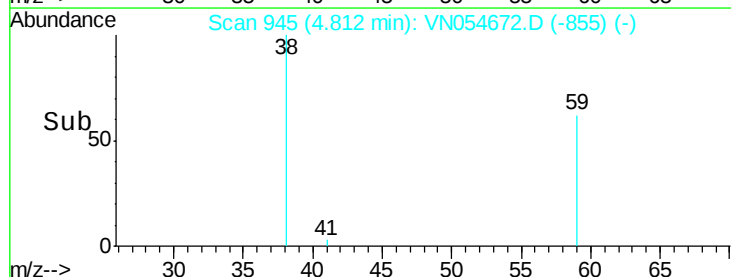
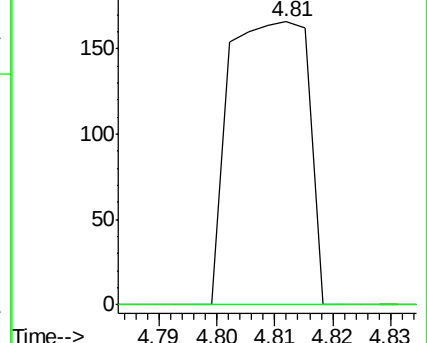
59 100

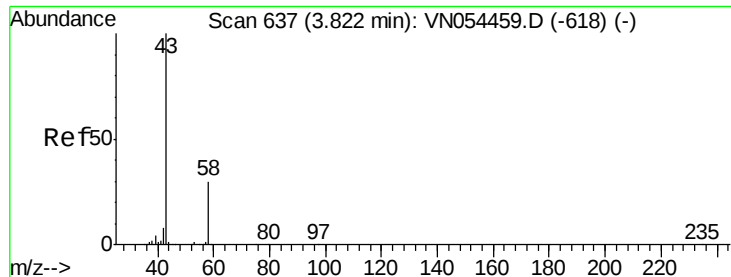
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 8.345 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

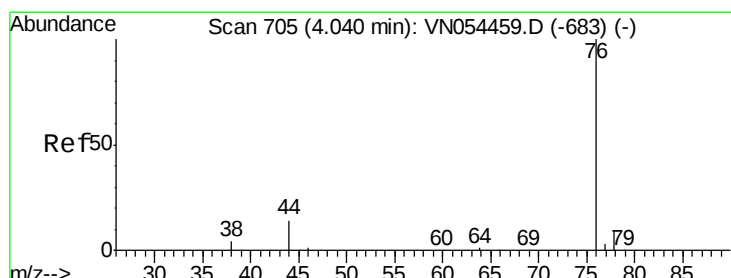
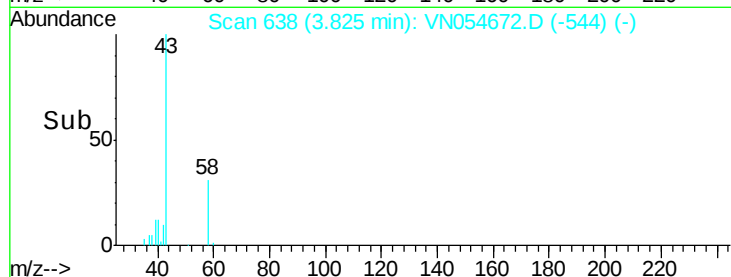
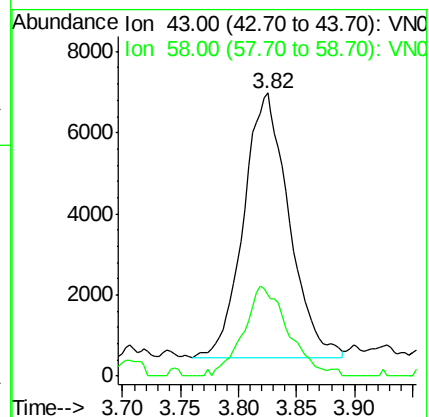
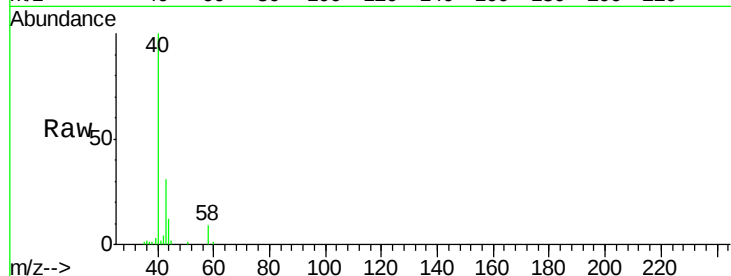
CS-2

Tot Ion: 43 Resp: 17794

Ion Ratio Lower Upper

43 100

58 30.6 29.9 44.9



#17

Carbon Disulfide

Concen: 0.265 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN054672.D

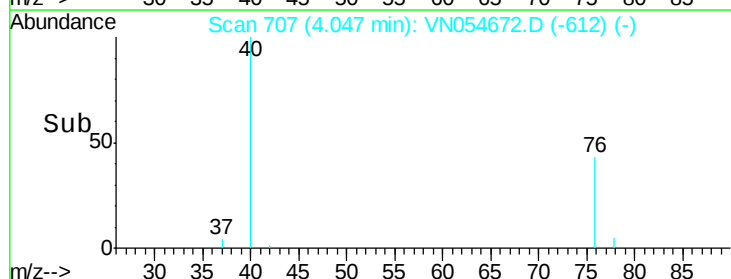
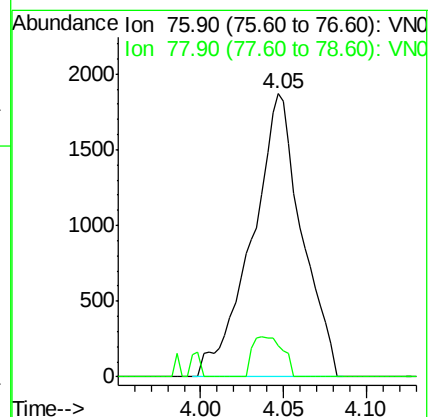
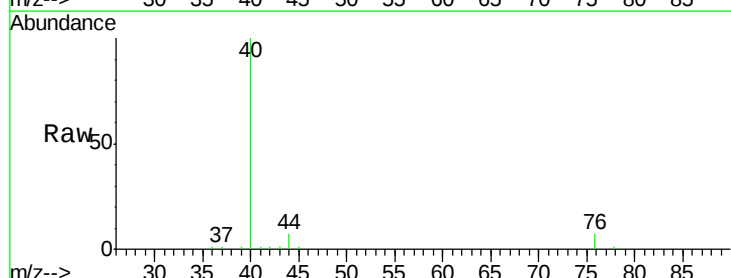
Acq: 25 Mar 2019 15:00

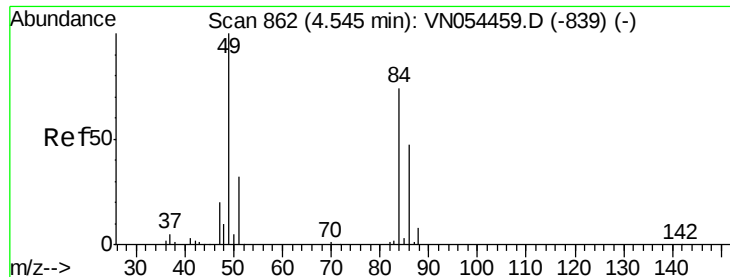
Tgt Ion: 76 Resp: 3906

Ion Ratio Lower Upper

76 100

78 11.2 7.5 11.3

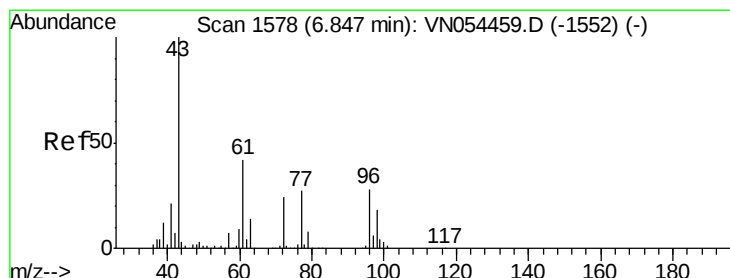
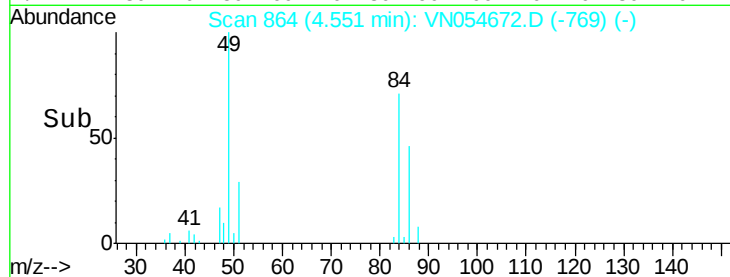
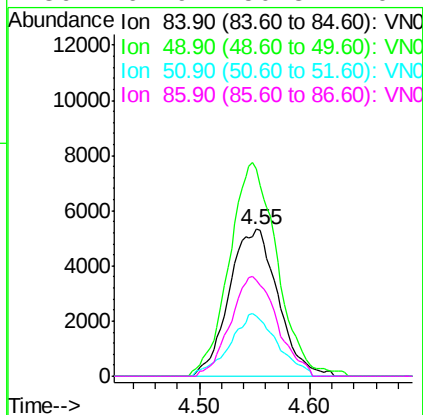
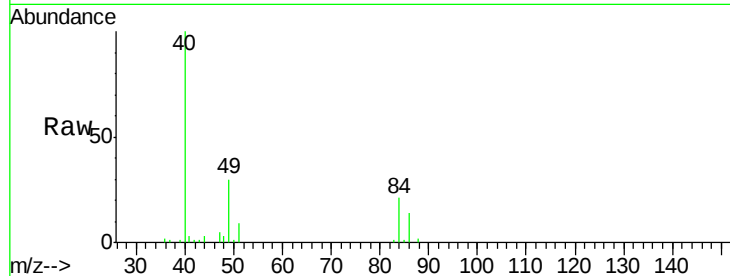




#20
Methvlene Chloride
Concen: 2.600 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

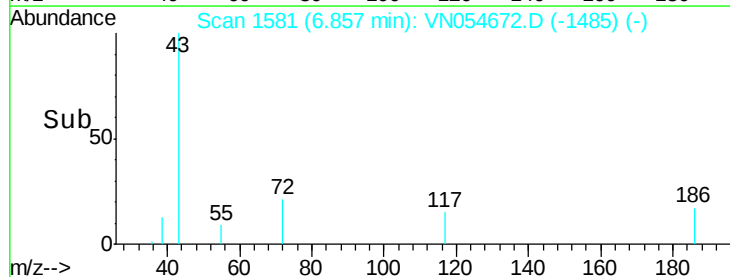
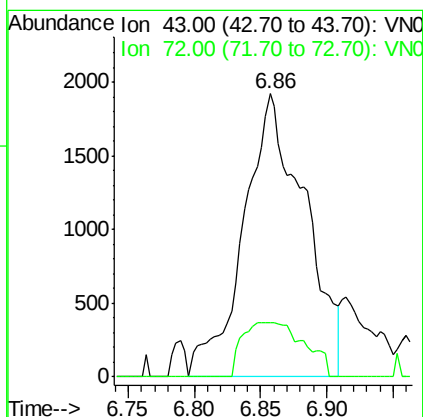
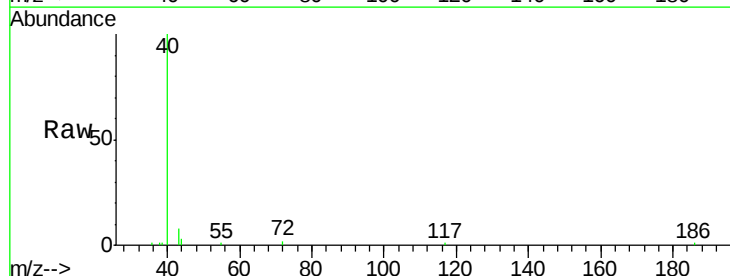
Instrument :
MSVOA_N
ClientSampleId :
CS-2

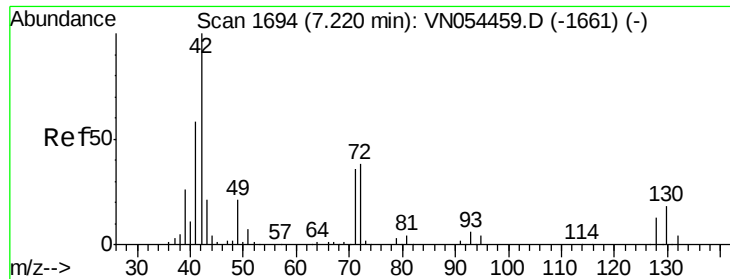
Tot Ion: 84 Resp: 16345
Ion Ratio Lower Upper
84 100
49 140.8 89.7 134.5#
51 41.0 28.2 42.4
86 64.9 50.8 76.2



#25
2-Butanone
Concen: 2.257 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

Tgt Ion: 43 Resp: 6166
Ion Ratio Lower Upper
43 100
72 19.2 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.01 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

CS-2

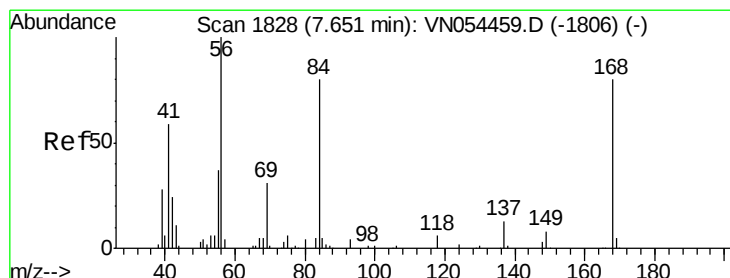
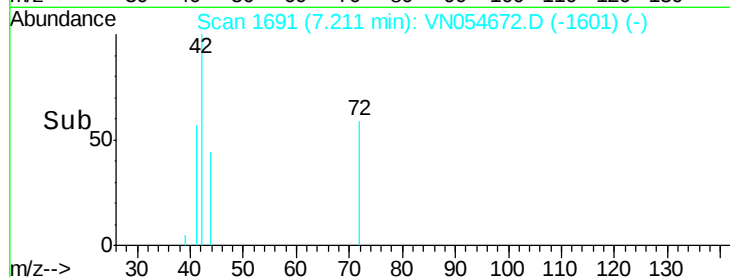
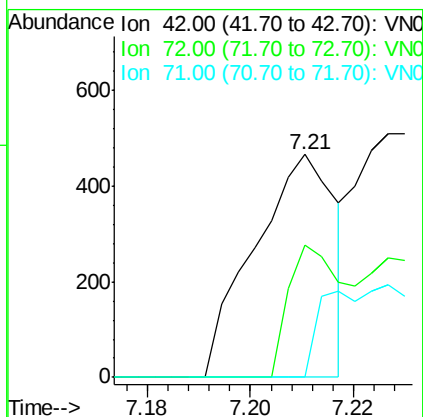
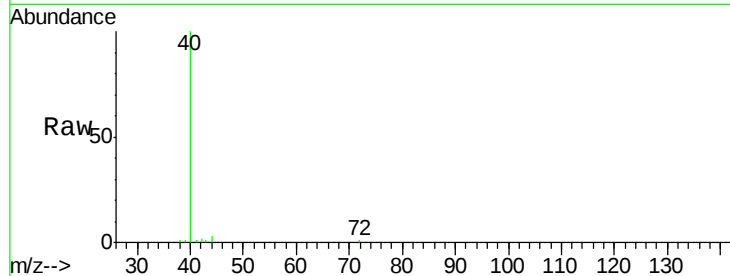
Tot Ion: 42 Resp: 509

Ion Ratio Lower Upper

42 100

72 41.8 37.8 56.6

71 19.4 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

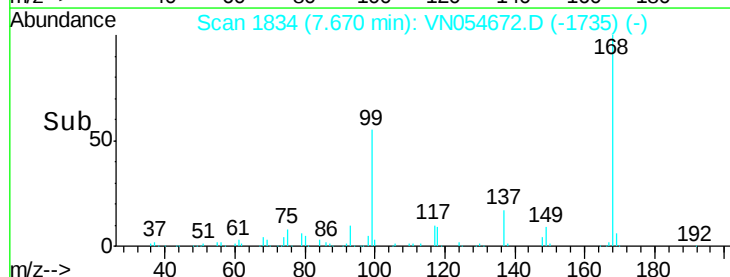
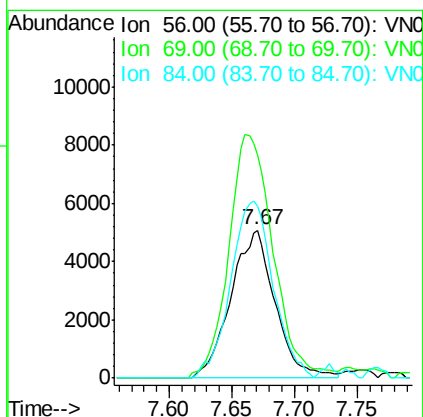
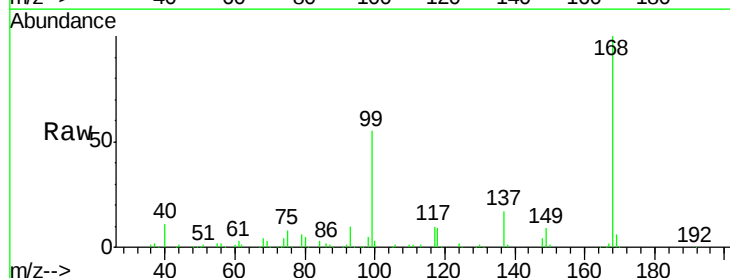
Tgt Ion: 56 Resp: 12477

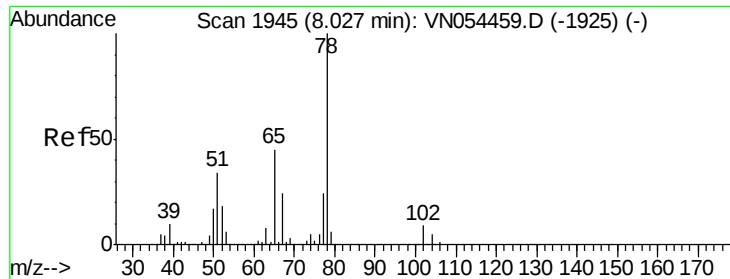
Ion Ratio Lower Upper

56 100

69 150.7 27.8 41.6#

84 116.5 74.6 111.8#

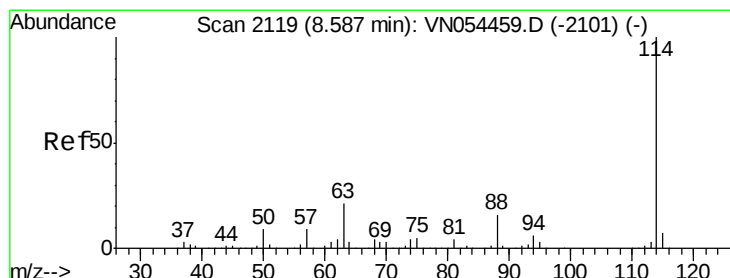
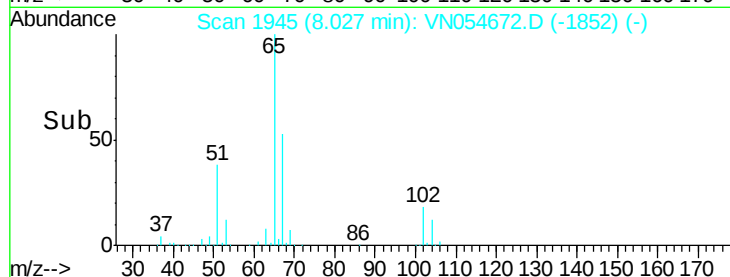
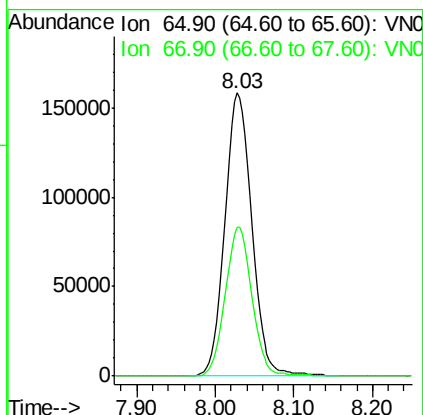
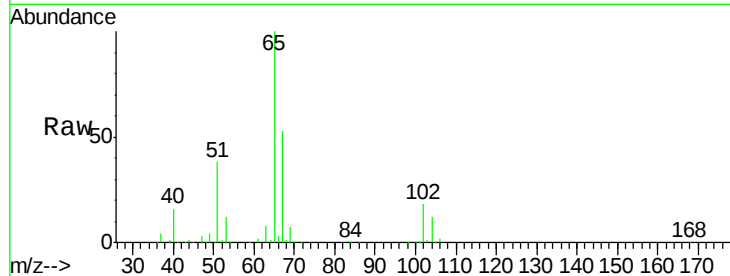




#33
 1,2-Dichloroethane-d4
 Concen: 52.911 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

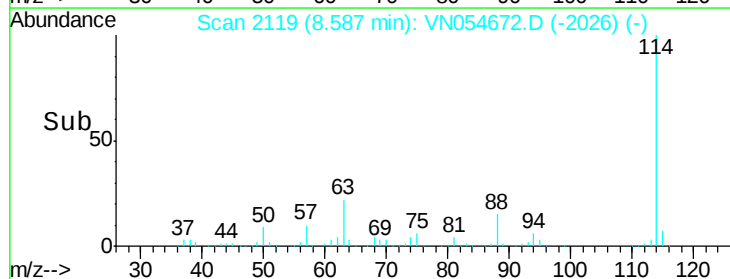
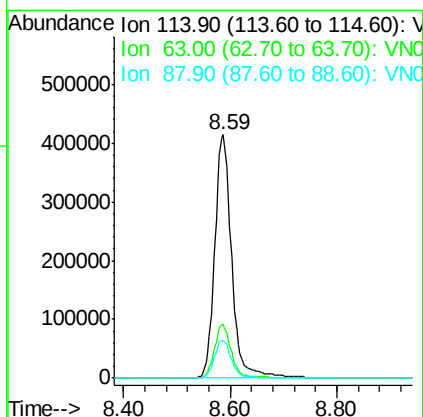
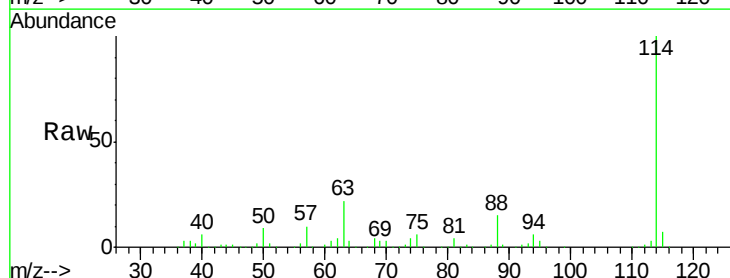
Instrument :
 MSVOA_N
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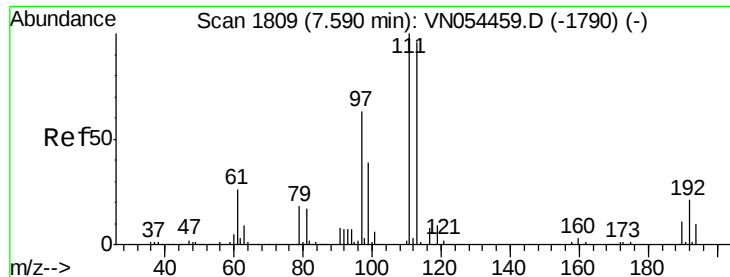
Tot Ion: 65 Resp: 375251
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

Tgt Ion: 114 Resp: 918429
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 35.2
 88 15.5 0.0 30.2

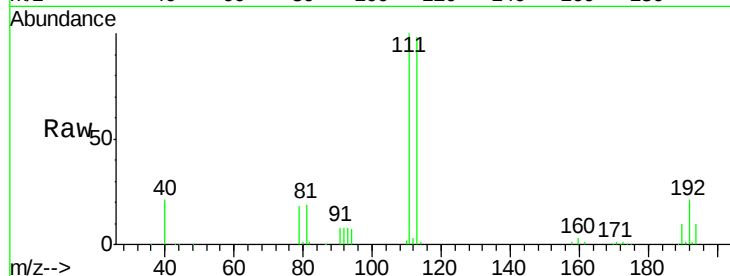




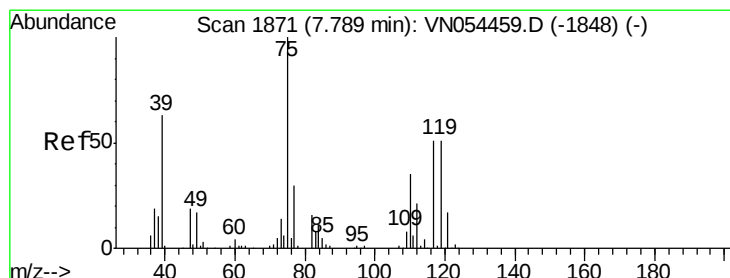
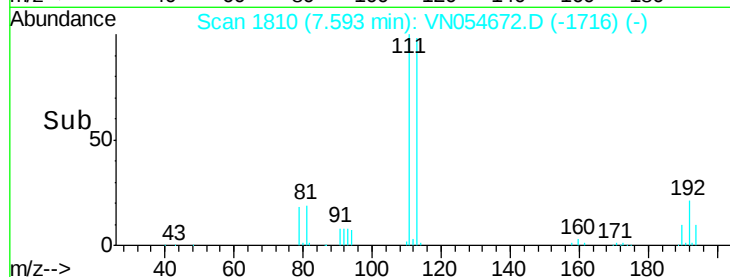
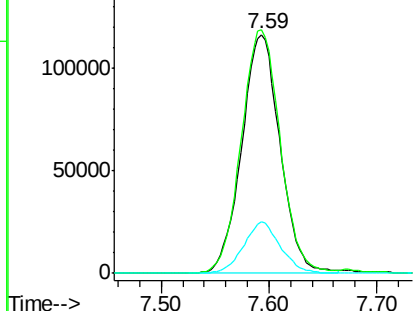
#35
 Dibromofluoromethane
 Concen: 48.658 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

Instrument :
 MSVOA_N
 ClientSampled :
 CS-2

Tot Ion:113 Resp: 287905
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.2 123.4
 192 20.8 19.2 28.8

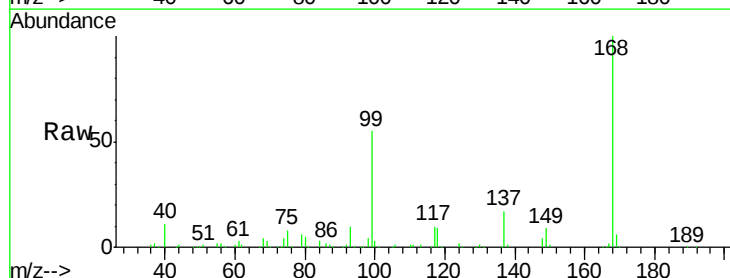


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

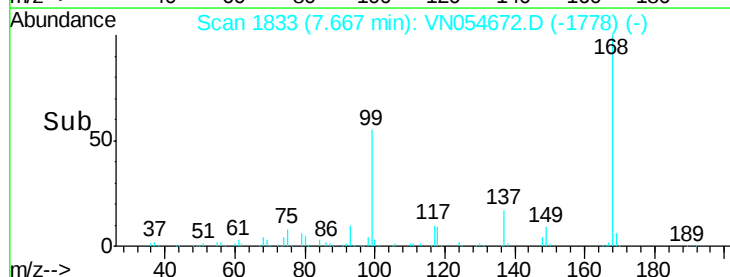
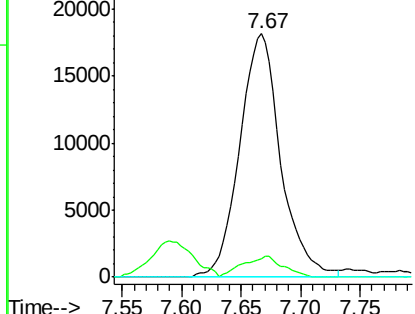


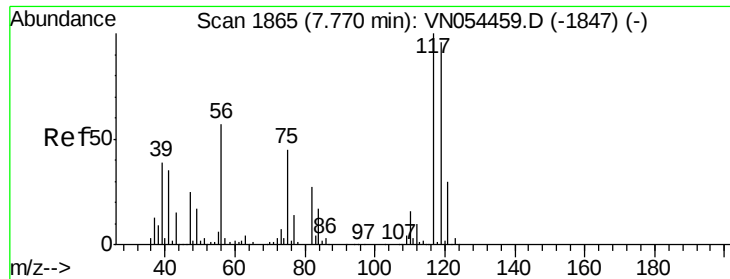
#36
 1,1-Dichloropropene
 Concen: 5.044 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

Tgt Ion: 75 Resp: 43311
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.1 57.5#
 77 0.0 25.0 37.4#



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

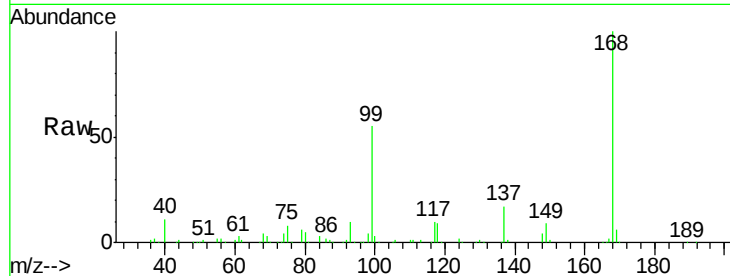




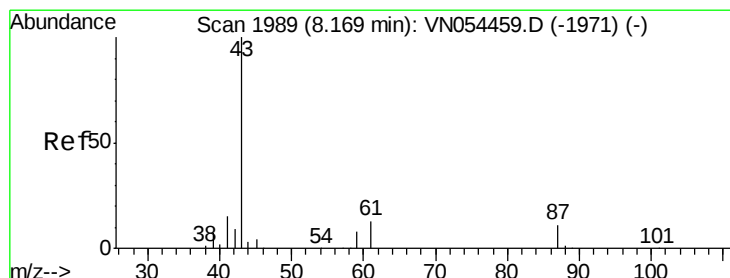
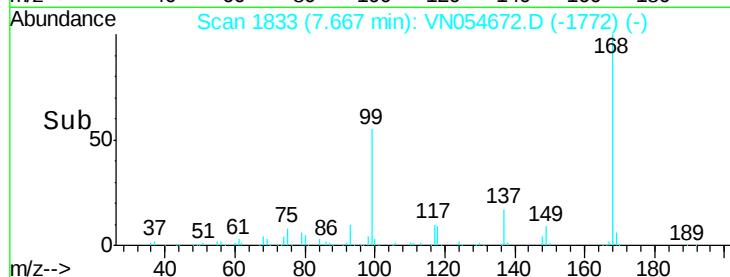
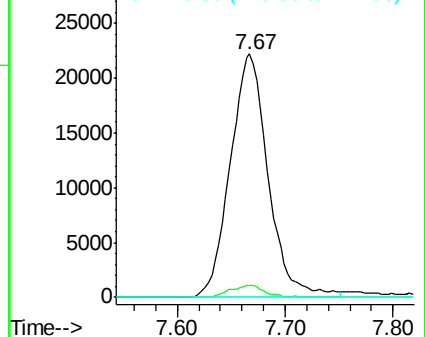
#38
Carbon Tetrachloride
Concen: 6.527 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.10 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

Instrument :
MSVOA_N
ClientSampleId :
CS-2

Tot Ion:117 Resp: 54466
Ion Ratio Lower Upper
117 100
119 4.9 76.3 114.5#
121 0.0 24.6 36.8#

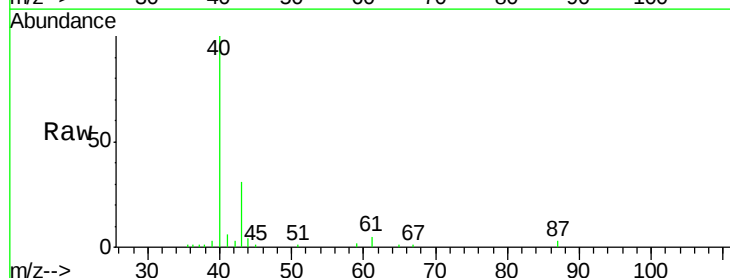


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

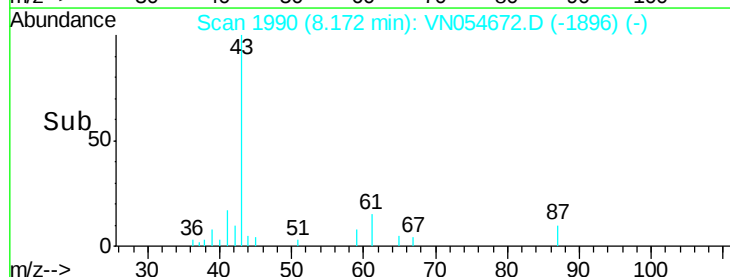
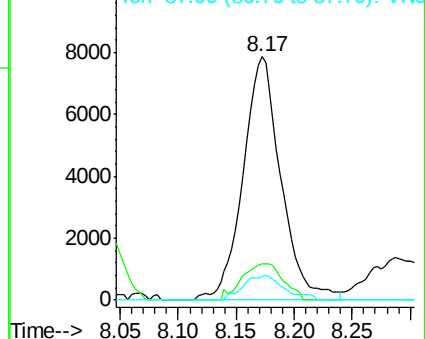


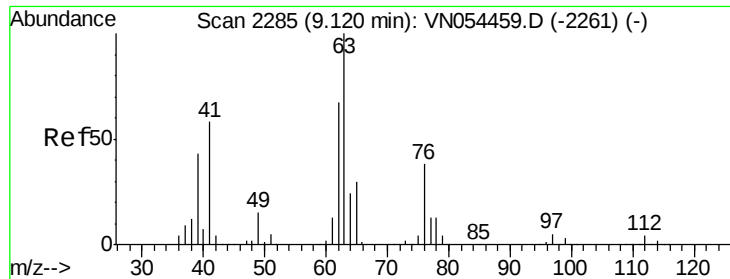
#43
Isopropyl Acetate
Concen: 1.738 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

Tgt Ion: 43 Resp: 17928
Ion Ratio Lower Upper
43 100
61 16.2 15.8 23.8
87 9.9 12.0 18.0#



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





#45

1,2-Dichloropropane

Concen: 0.201 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

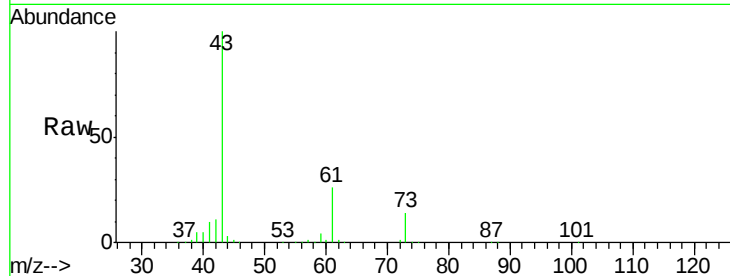
CS-2

Tot Ion: 63 Resp: 1328

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

800

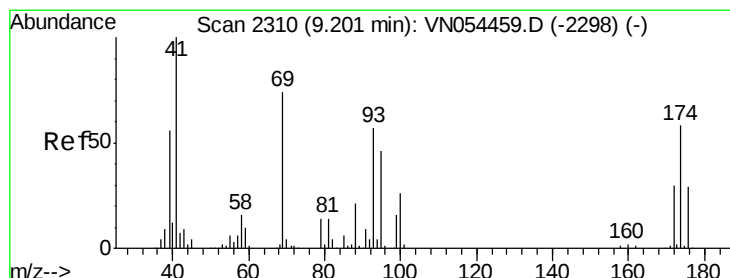
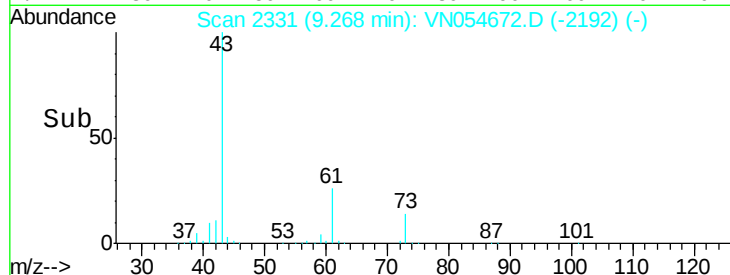
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.415 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

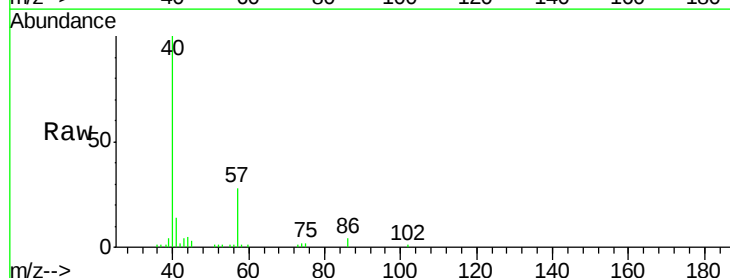
Tgt Ion: 41 Resp: 7924

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

39 24.4 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

80000

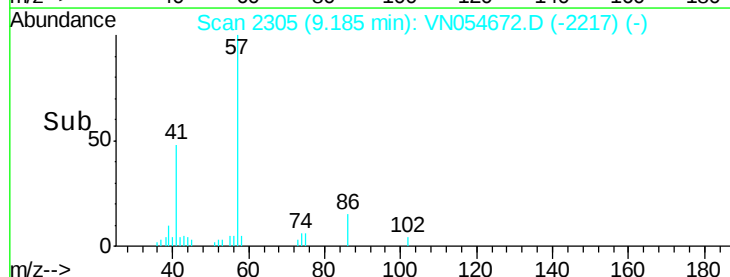
60000

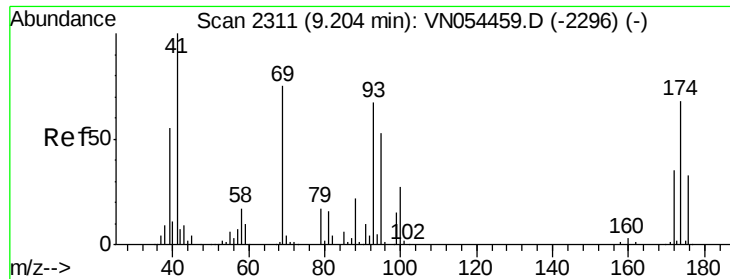
40000

20000

0

Time-->





#49

1,4-Dioxane

Concen: 2.700 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

CS-2

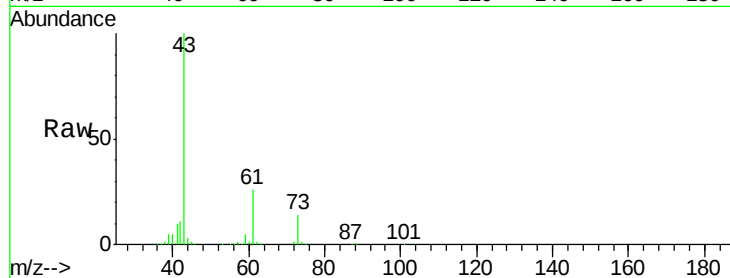
Tot Ion: 88 Resp: 169

Ion Ratio Lower Upper

88 100

43 667523.1 24.1 36.1#

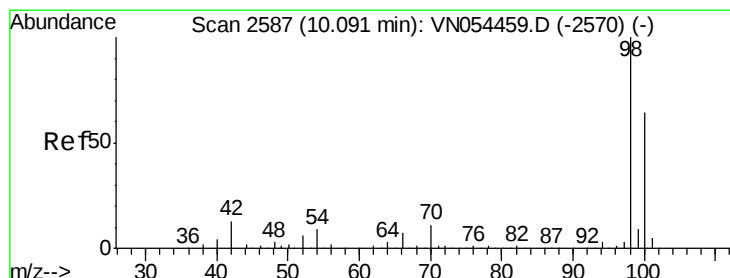
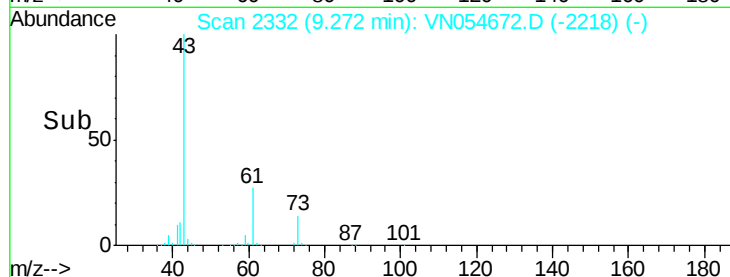
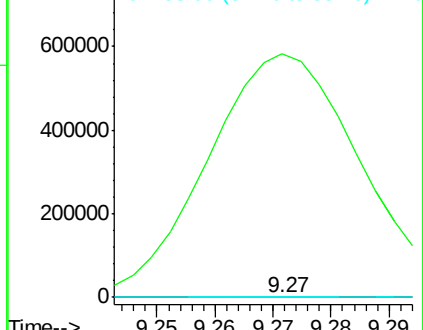
58 2555.6 50.8 76.2#



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: 49.707 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054672.D

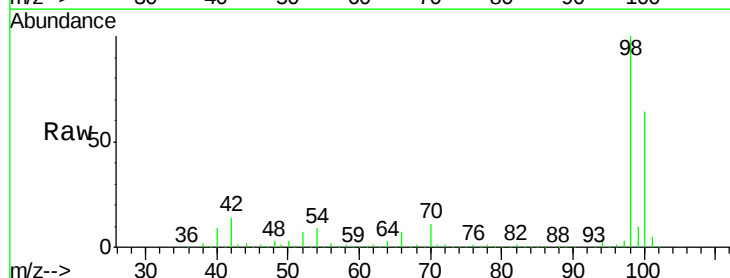
Acq: 25 Mar 2019 15:00

Tgt Ion: 98 Resp: 1105695

Ion Ratio Lower Upper

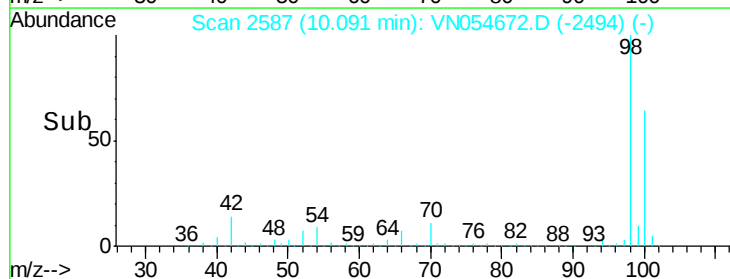
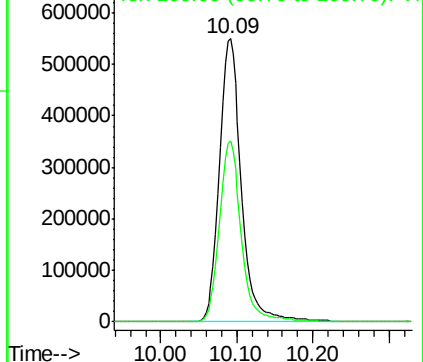
98 100

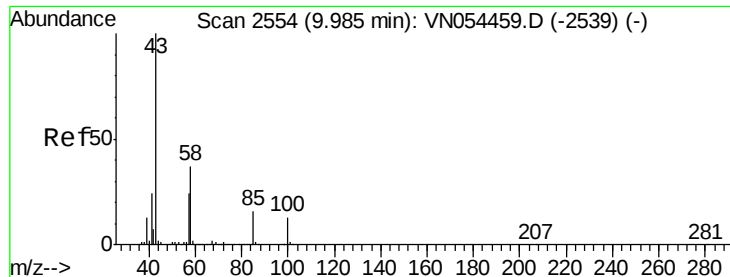
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.745 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

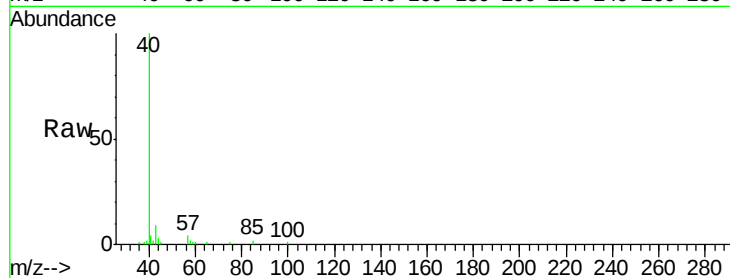
CS-2

Tot Ion: 43 Resp: 4259

Ion Ratio Lower Upper

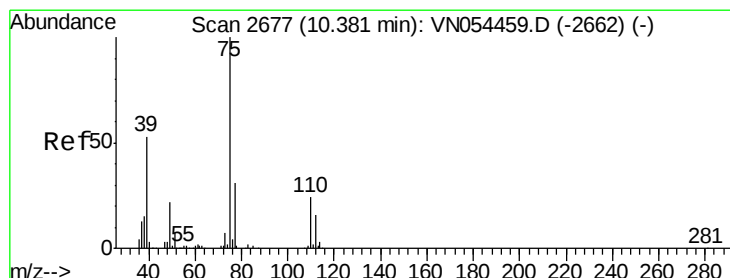
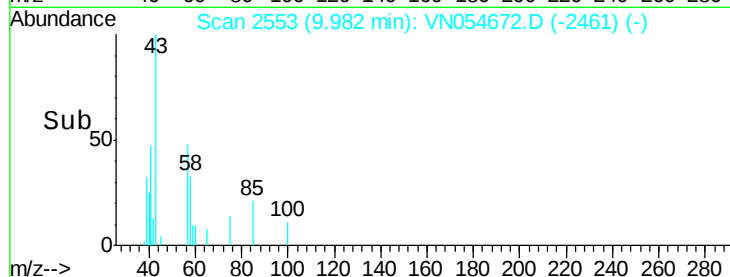
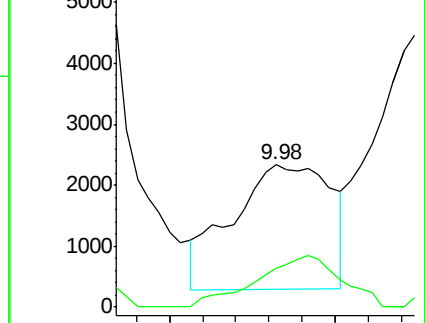
43 100

58 35.1 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)



#53

t-1,3-Dichloropropene

Concen: 2.239 ug/l

RT: 10.12 min Scan# 2596

Delta R.T. -0.26 min

Lab File: VN054672.D

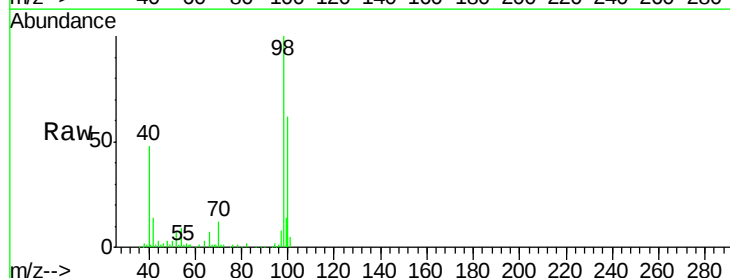
Acq: 25 Mar 2019 15:00

Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

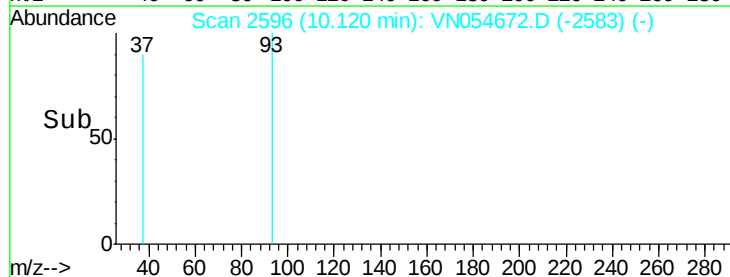
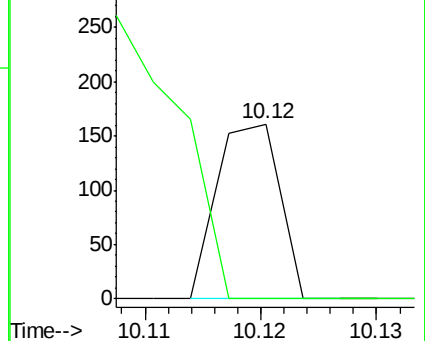
75 100

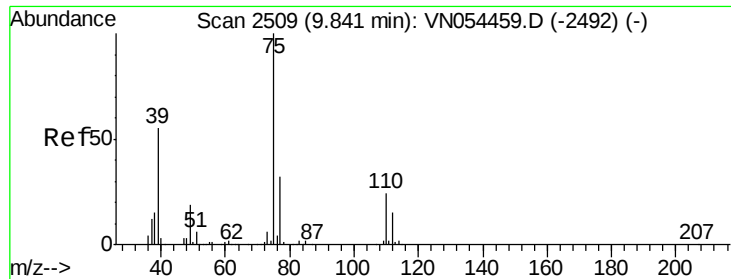
77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-2662) (-)



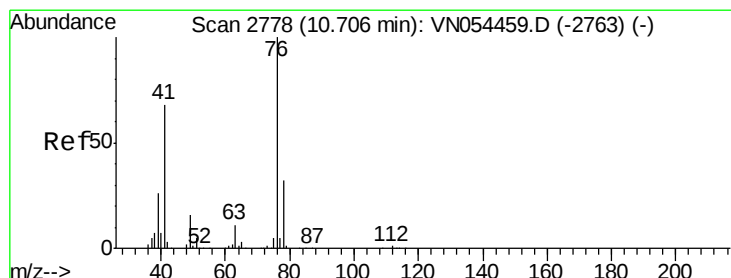
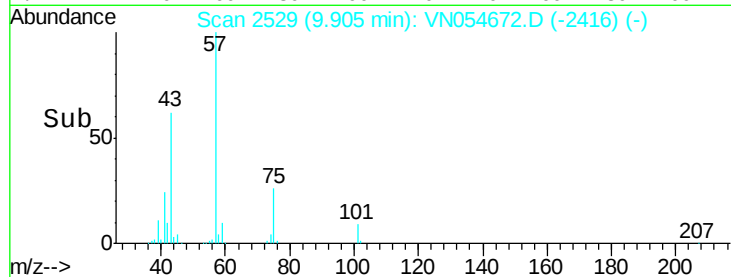
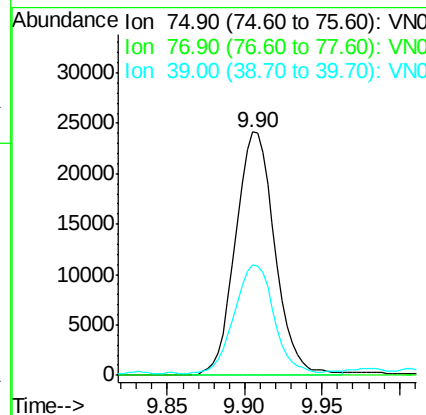
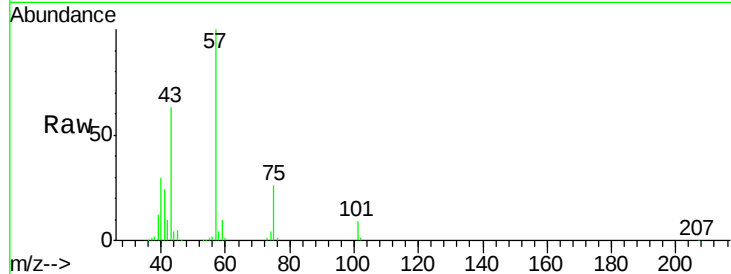


#54

cis-1,3-Dichloropropene
 Concen: 4.566 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

Instrument :
 MSVOA_N
 ClientSampled :
 CS-2

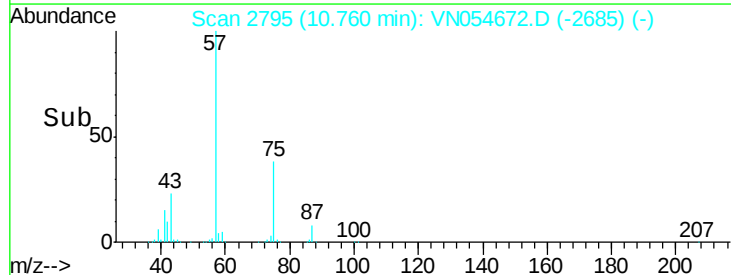
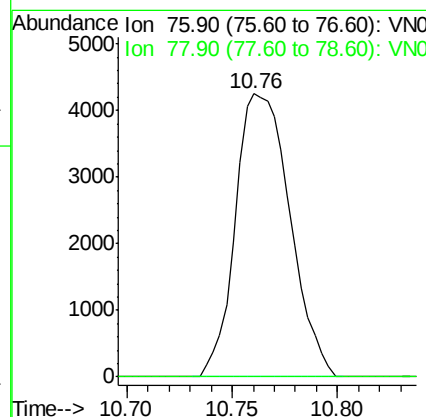
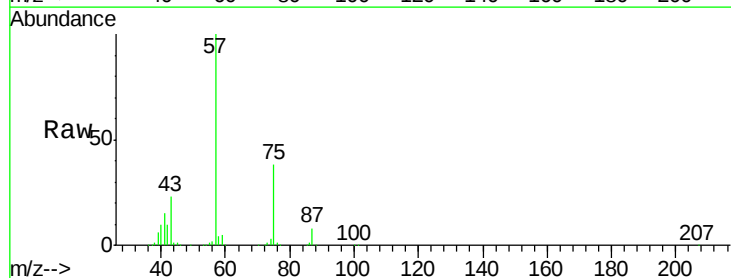
Tot Ion: 75 Resp: 42743
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 44.5 37.2 55.8

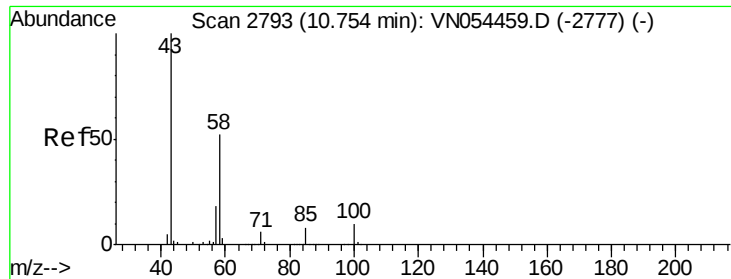


#57

1,3-Dichloropropane
 Concen: 0.807 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN054672.D
 Acq: 25 Mar 2019 15:00

Tgt Ion: 76 Resp: 7620
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

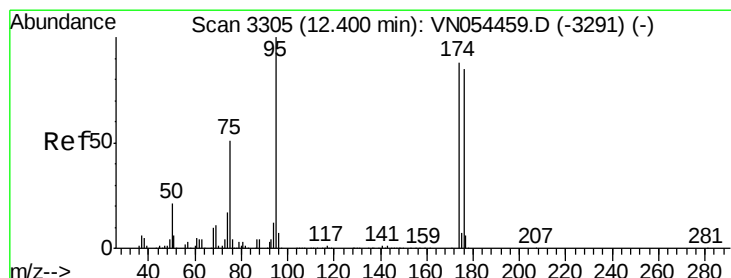
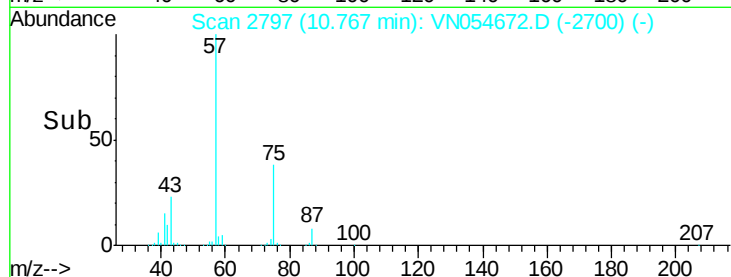
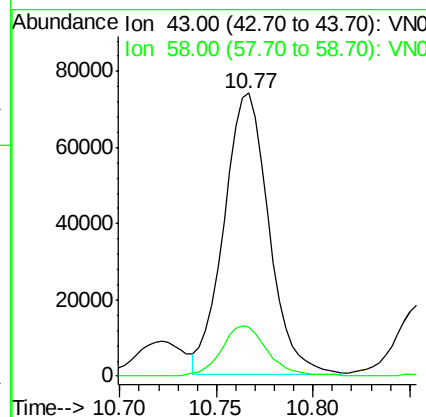
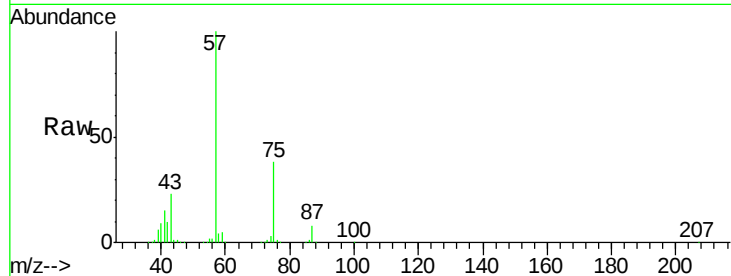




#59
2-Hexanone
Concen: 32.137 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

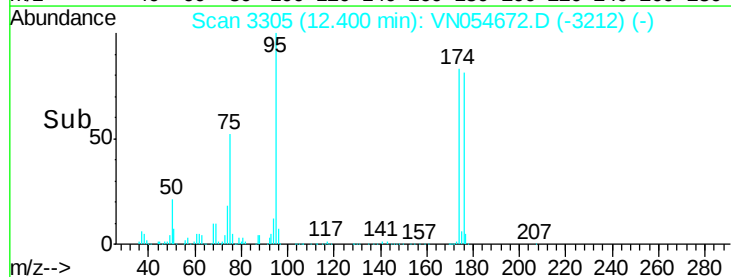
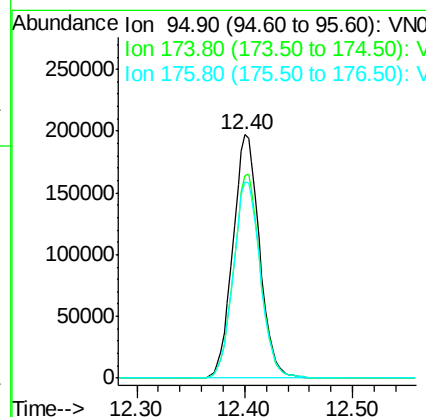
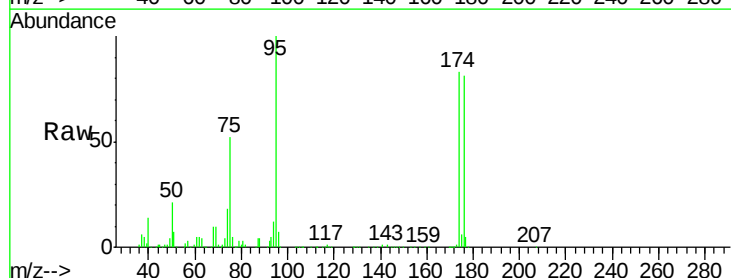
Instrument :
MSVOA_N
ClientSampleId :
CS-2

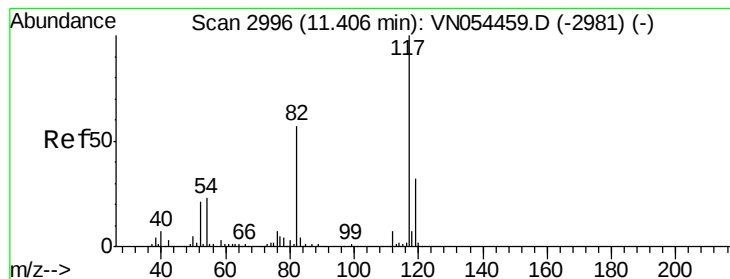
Tot Ion: 43 Resp: 119998
Ion Ratio Lower Upper
43 100
58 18.4 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.837 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054672.D
Acq: 25 Mar 2019 15:00

Tgt Ion: 95 Resp: 339382
Ion Ratio Lower Upper
95 100
174 83.9 0.0 191.0
176 82.0 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: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

CS-2

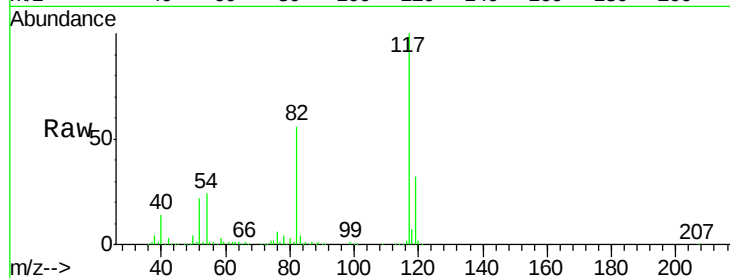
Tot Ion:117 Resp: 786075

Ion Ratio Lower Upper

117 100

82 56.4 40.0 60.0

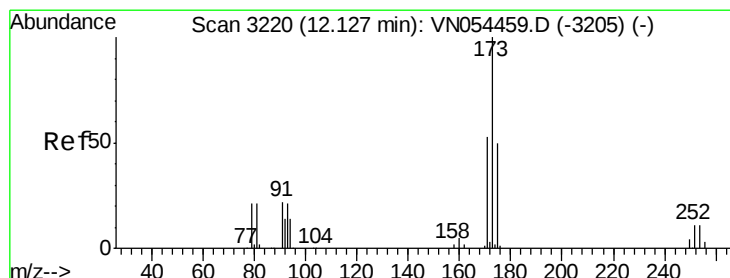
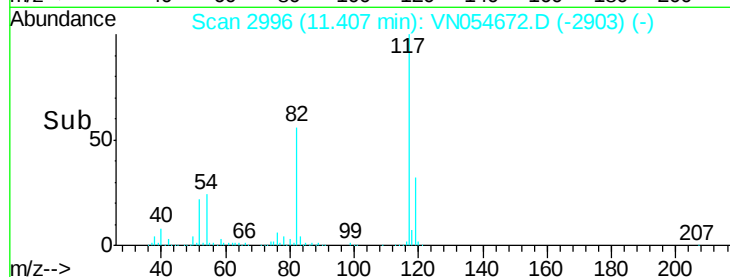
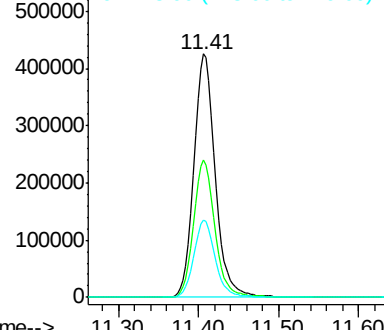
119 31.9 25.8 38.6



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



#71

Bromoform

Concen: 3.018 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

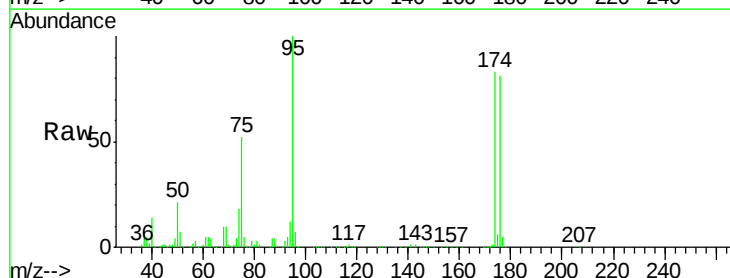
Tgt Ion:173 Resp: 3300

Ion Ratio Lower Upper

173 100

175 568.3 24.4 73.2#

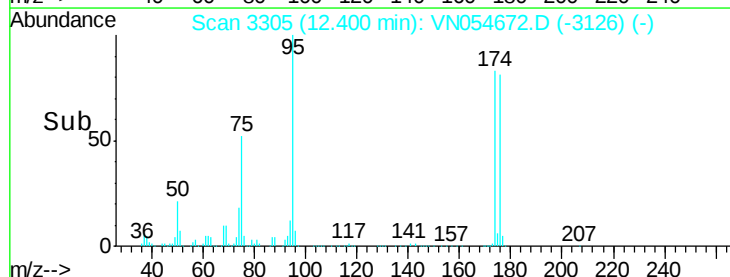
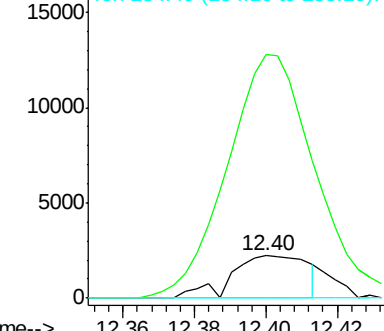
254 0.0 0.1 0.1#

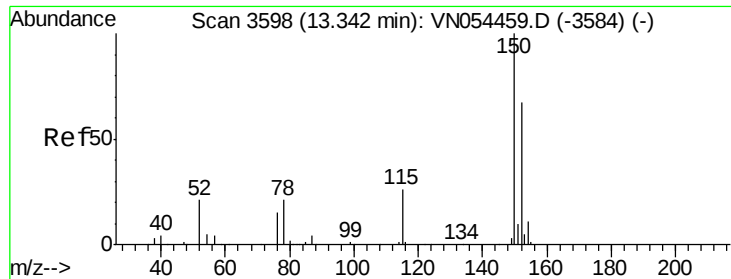


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

CS-2

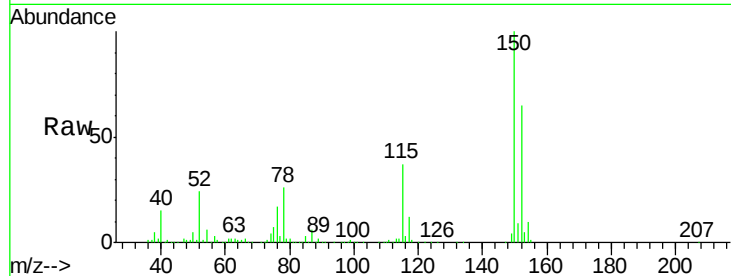
Tot Ion:152 Resp: 285368

Ion Ratio Lower Upper

152 100

115 58.1 27.2 81.6

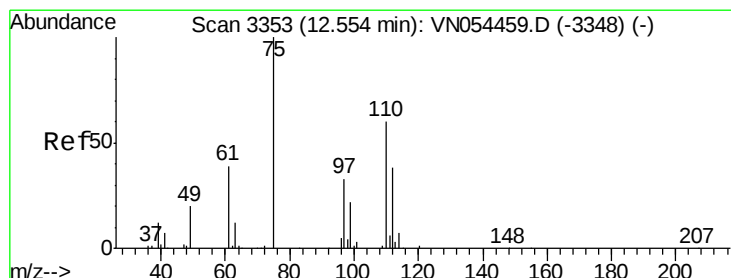
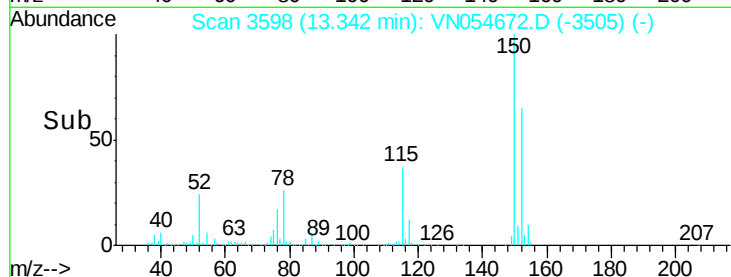
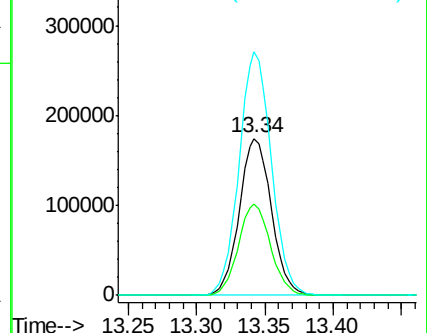
150 155.7 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 38.955 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054672.D

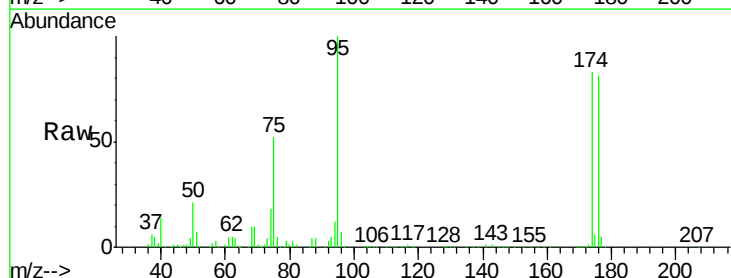
Acq: 25 Mar 2019 15:00

Tgt Ion: 75 Resp: 176404

Ion Ratio Lower Upper

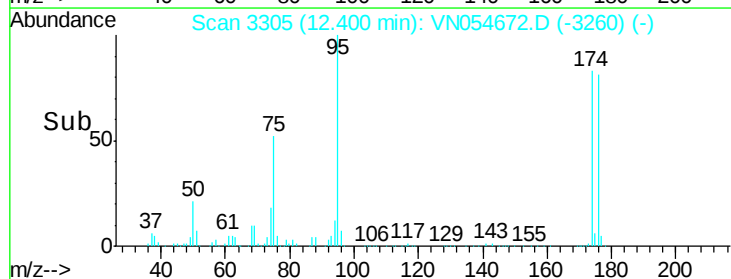
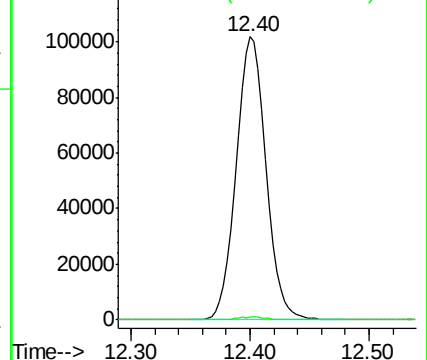
75 100

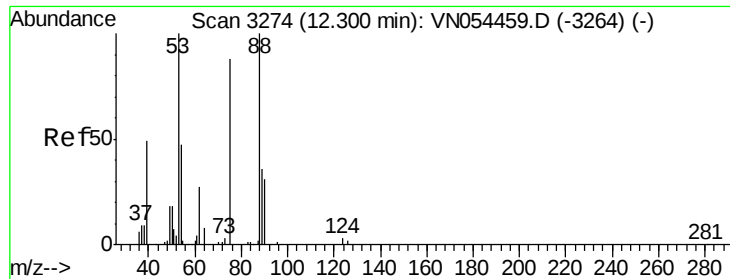
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 128.946 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054672.D

Acq: 25 Mar 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

CS-2

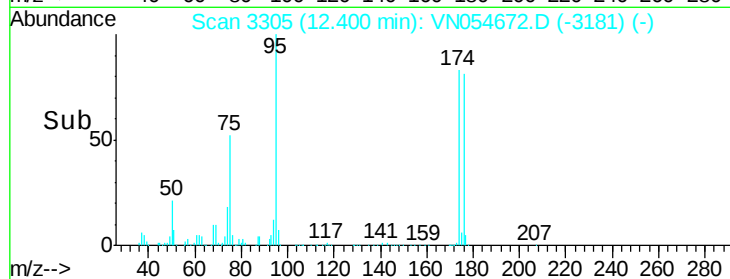
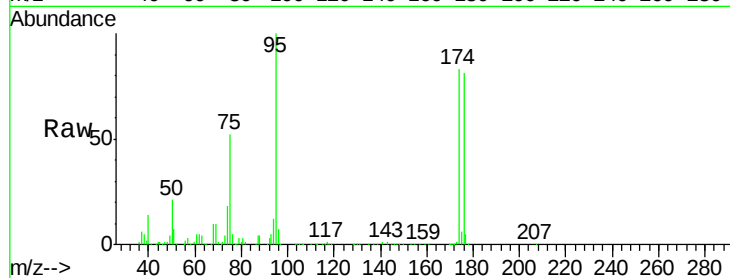
Tot Ion: 75 Resp: 176404

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

