

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\
 Data File : VN057013.D
 Acq On : 31 Jul 2019 14:41
 Operator : JC/SP
 Sample : K4074-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS-10_072919

Quant Time: Aug 01 01:20:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	562963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	840226	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	703148	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	193788	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	280837	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
35) Dibromofluoromethane	7.58	113	256382	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
50) Toluene-d8	10.08	98	996395	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	12.40	95	262113	39.25	ug/l	0.00
Spiked Amount			Recovery	=	78.50%	

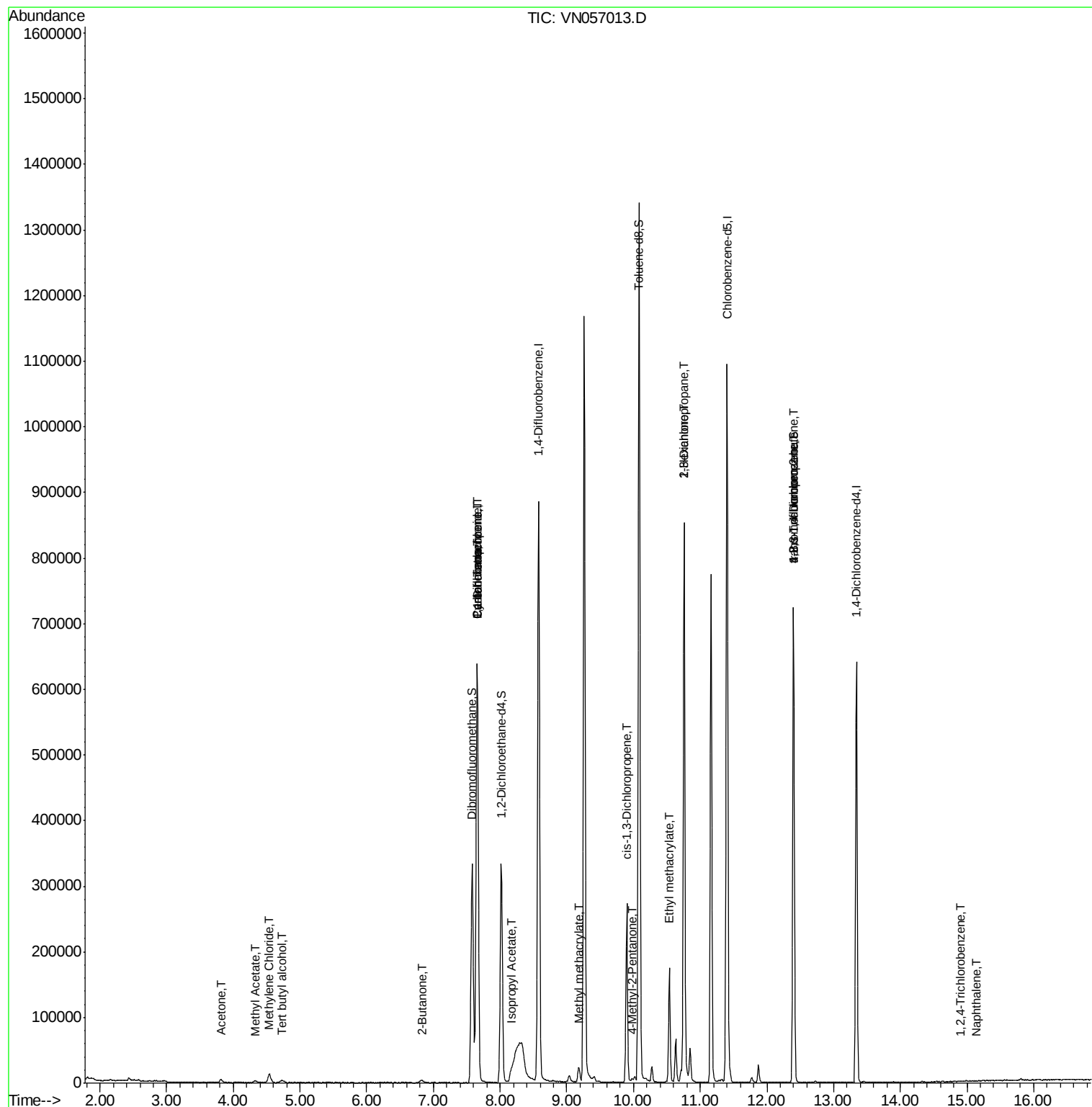
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1903	2.443	ug/l #	74
16) Acetone	3.82	43	8639	4.138	ug/l	95
18) Methyl Acetate	4.32	43	5766	0.866	ug/l	90
20) Methylene Chloride	4.53	84	11036	1.835	ug/l	99
25) 2-Butanone	6.83	43	689	0.233	ug/l #	48
31) Cyclohexane	7.65	56	8637	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	35211	4.762	ug/l #	49
38) Carbon Tetrachloride	7.66	117	49223	7.038	ug/l #	17
43) Isopropyl Acetate	8.17	43	19522	1.995	ug/l #	91
48) Methyl methacrylate	9.17	41	7797	1.650	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	3183	0.547	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	51521	5.912	ug/l #	63
56) Ethyl methacrylate	10.54	69	1038	1.881	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	9240	1.016	ug/l #	42
59) 2-Hexanone	10.76	43	120048	29.039	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	119274	30.307	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119274	97.376	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	100	2.740	ug/l #	12
95) Naphthalene	15.13	128	174	3.607	ug/l #	70

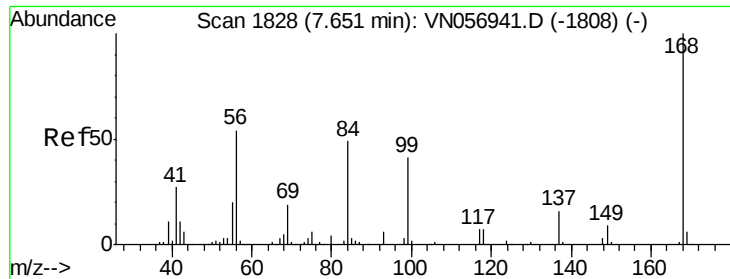
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

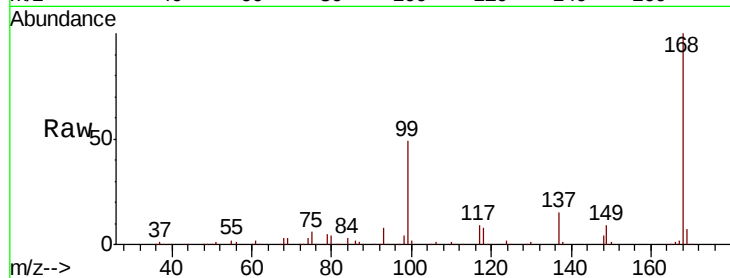
SS-10_072919

Tot Ion:168 Resp: 562963

Ion Ratio Lower Upper

168 100

99 48.9 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VN056941.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-1808) (-)

7.66

250000

200000

150000

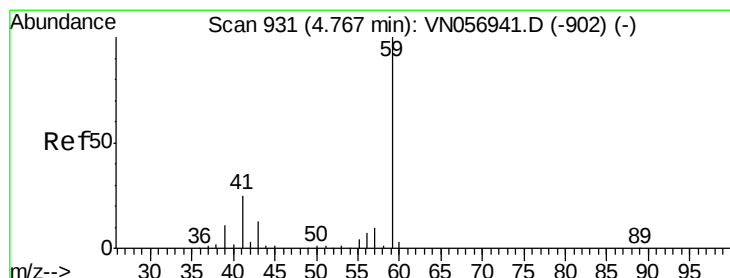
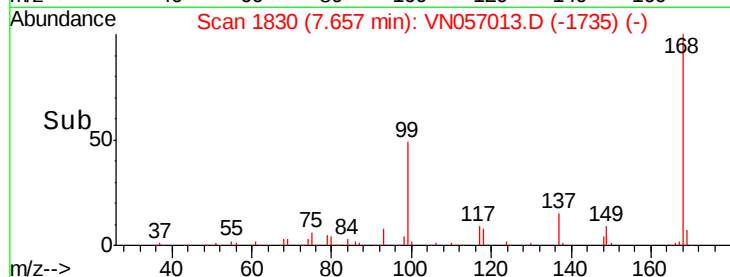
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 2.443 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.04 min

Lab File: VN057013.D

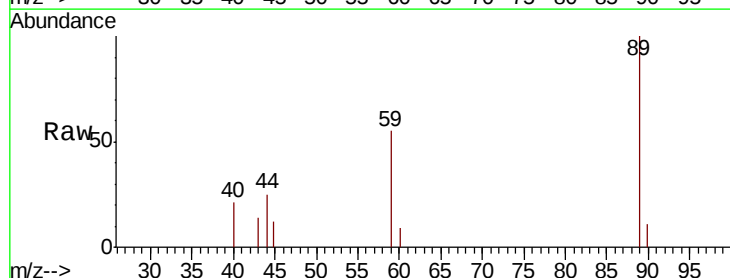
Acq: 31 Jul 2019 14:41

Tgt Ion: 59 Resp: 1903

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VN056941.D (-902) (-)

Ion 57.00 (56.70 to 57.70): VN056941.D (-902) (-)

4.73

1200

1000

800

600

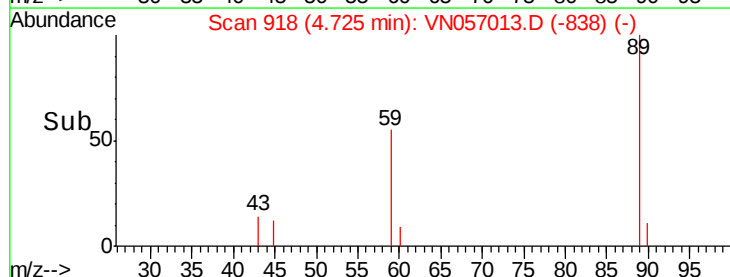
400

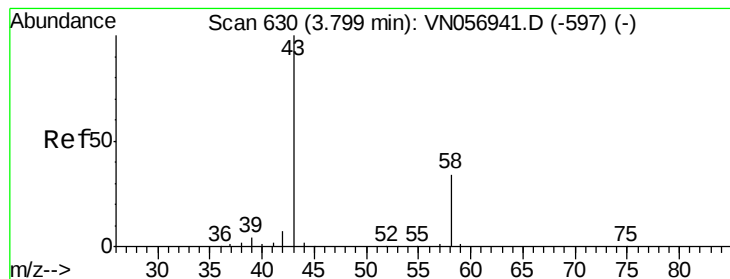
200

0

4.65 4.70 4.75

Time-->





#16

Acetone

Concen: 4.138 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.02 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

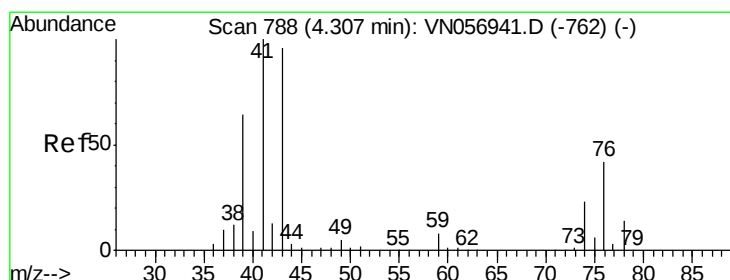
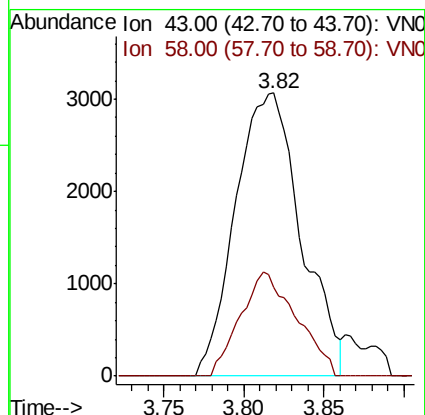
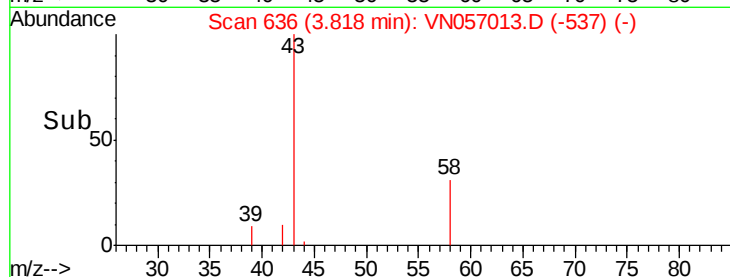
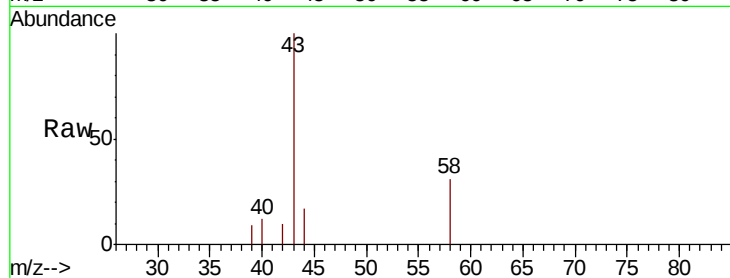
SS-10_072919

Tot Ion: 43 Resp: 8639

Ion Ratio Lower Upper

43 100

58 31.4 27.2 40.8



#18

Methyl Acetate

Concen: 0.866 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN057013.D

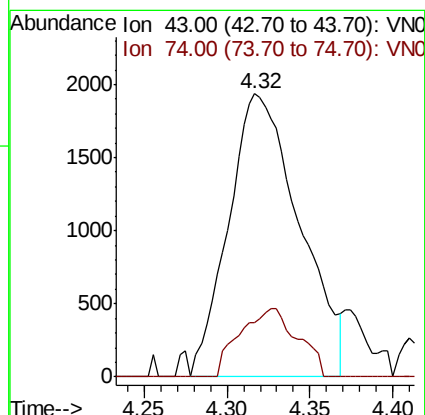
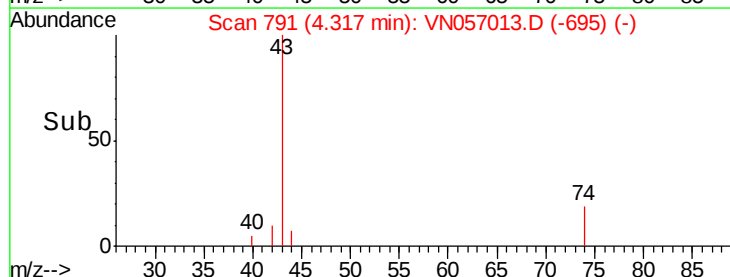
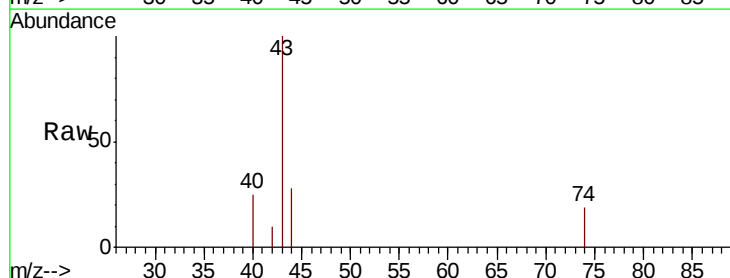
Acq: 31 Jul 2019 14:41

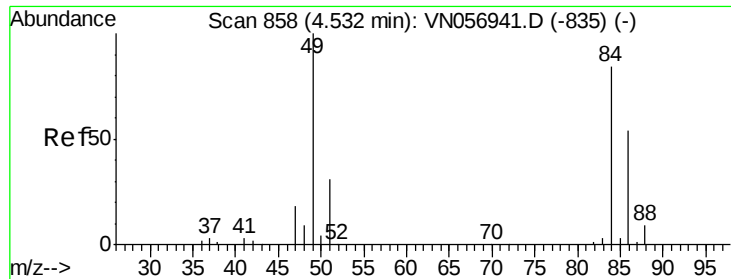
Tgt Ion: 43 Resp: 5766

Ion Ratio Lower Upper

43 100

74 19.8 19.7 29.5

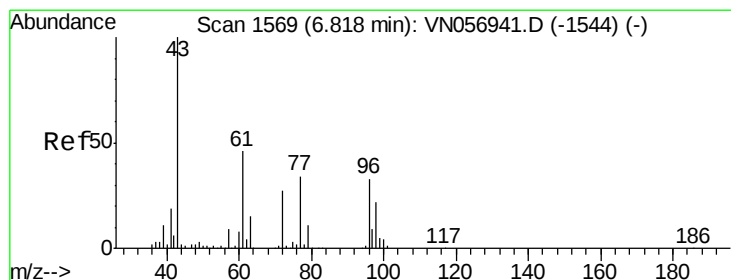
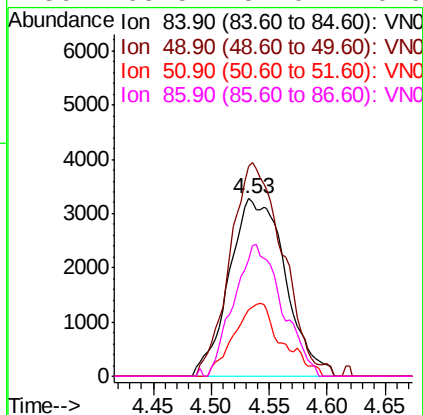
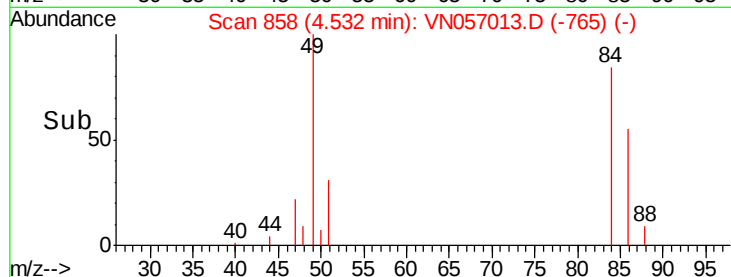
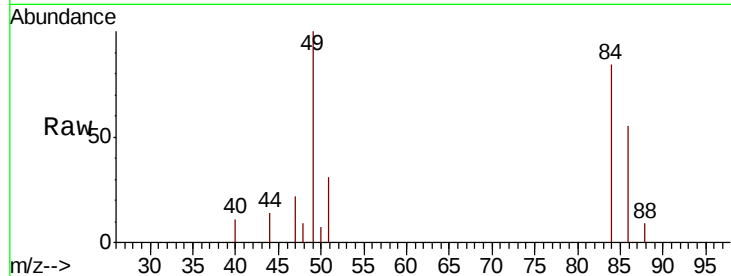




#20
Methvlene Chloride
Concen: 1.835 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057013.D
Acq: 31 Jul 2019 14:41

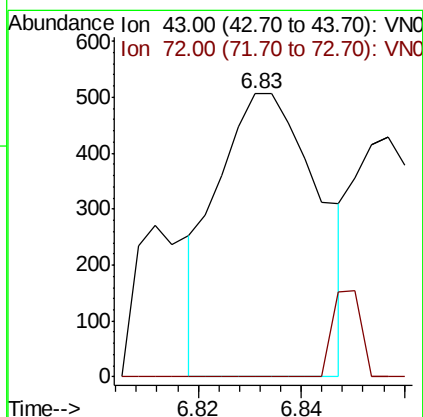
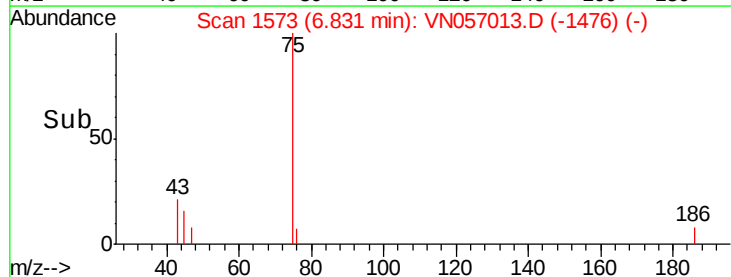
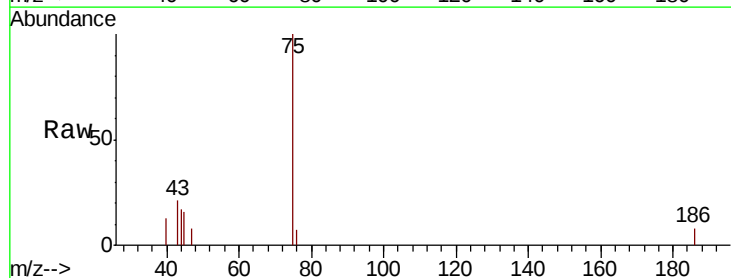
Instrument :
MSVOA_N
ClientSampleId :
SS-10_072919

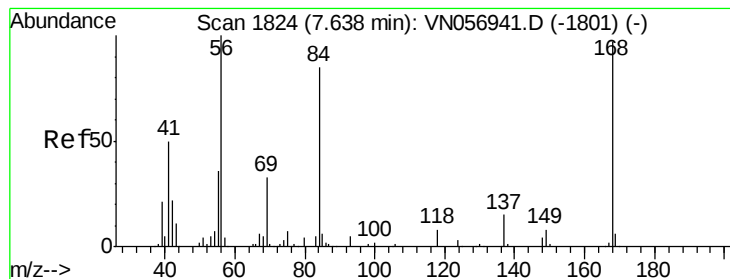
Tot Ion: 84 Resp: 11036
Ion Ratio Lower Upper
84 100
49 118.4 95.2 142.8
51 37.3 29.7 44.5
86 65.5 51.0 76.6



#25
2-Butanone
Concen: 0.233 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057013.D
Acq: 31 Jul 2019 14:41

Tgt Ion: 43 Resp: 689
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#





#31

Cyclohexane

Concen: 0.912 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

SS-10_072919

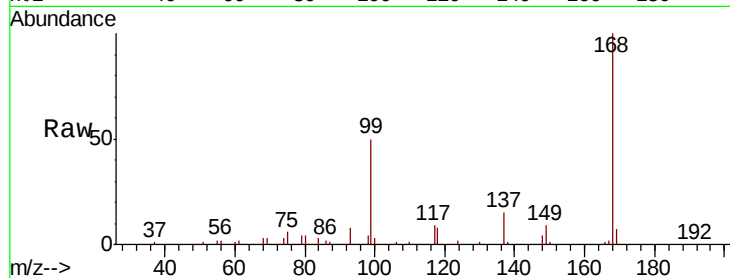
Tot Ion: 56 Resp: 8637

Ion Ratio Lower Upper

56 100

69 208.9 26.2 39.2#

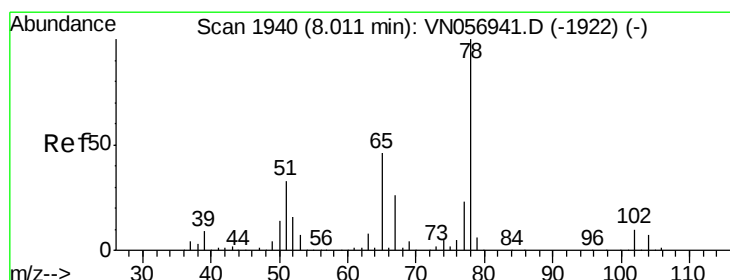
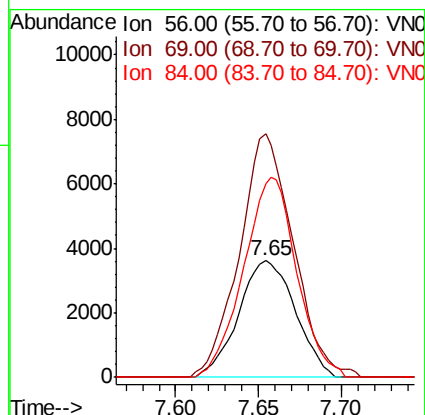
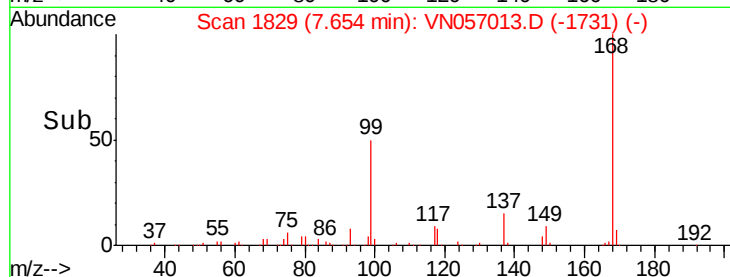
84 166.5 68.2 102.2#



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: 48.733 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057013.D

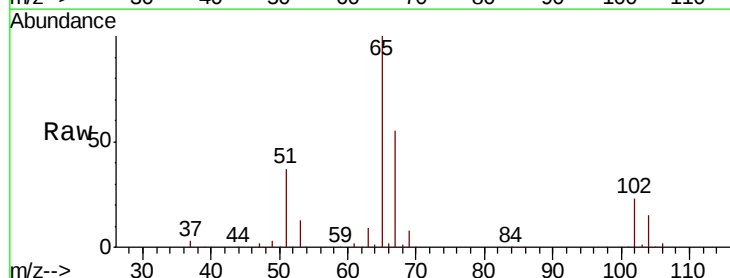
Acq: 31 Jul 2019 14:41

Tgt Ion: 65 Resp: 280837

Ion Ratio Lower Upper

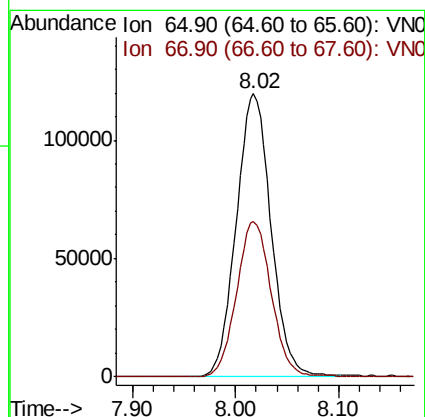
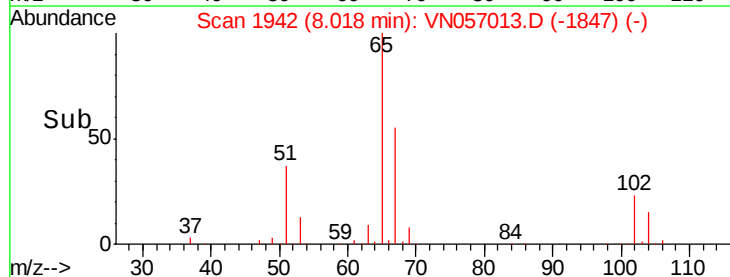
65 100

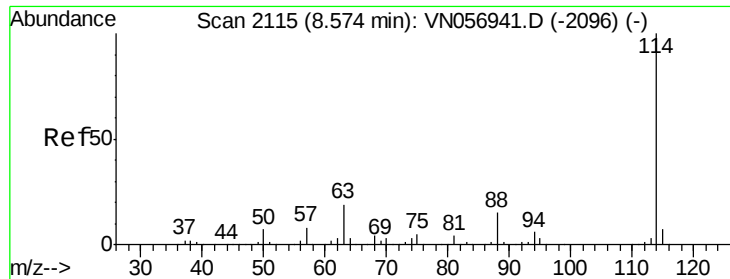
67 55.1 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

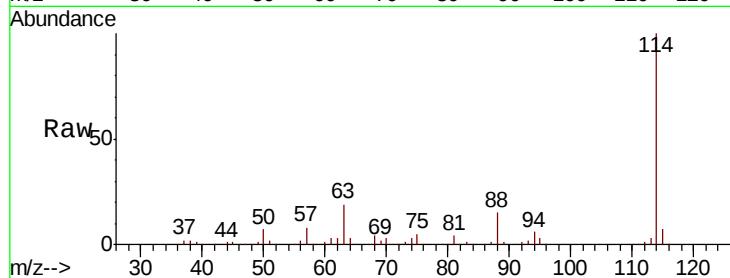




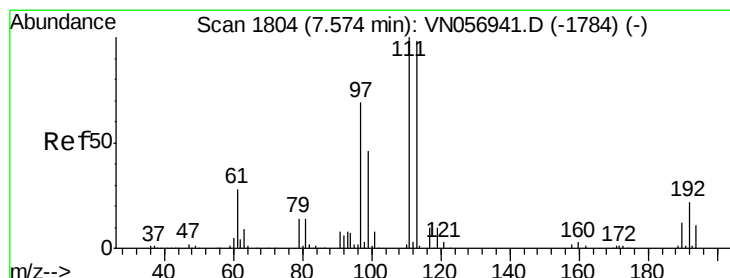
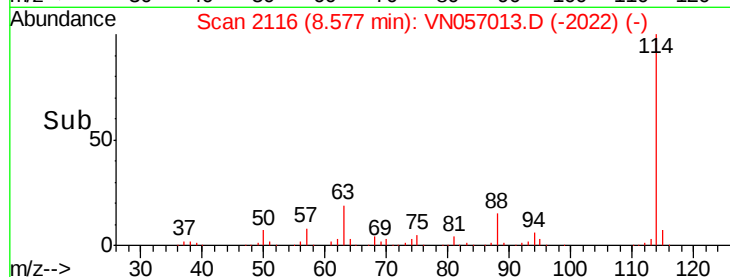
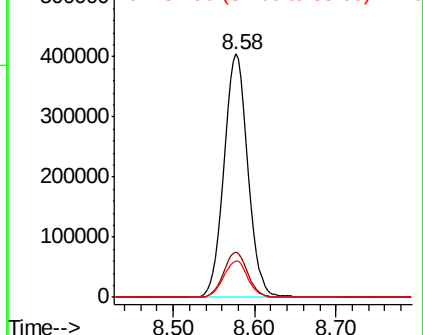
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 SS-10_072919

Tot Ion:114 Resp: 840226
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 38.0
 88 14.8 0.0 30.0

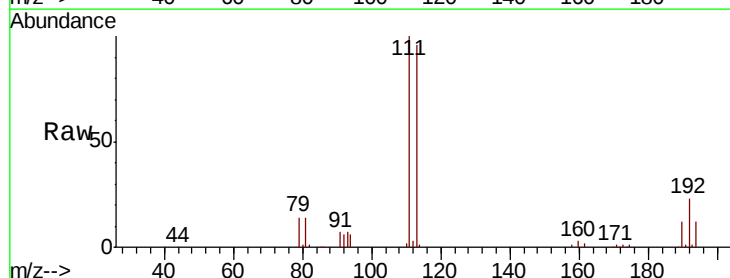


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

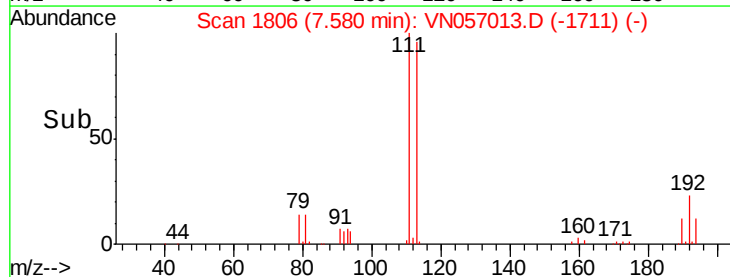
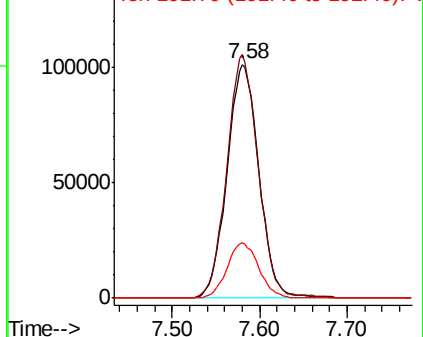


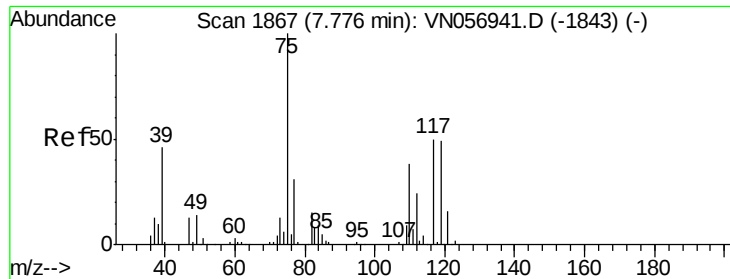
#35
 Dibromofluoromethane
 Concen: 47.665 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Tgt Ion:113 Resp: 256382
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.0 123.0
 192 23.6 18.4 27.6



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

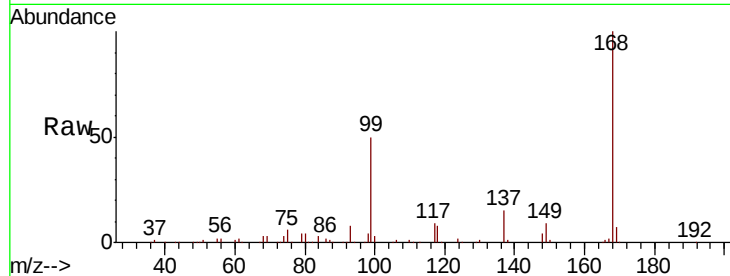




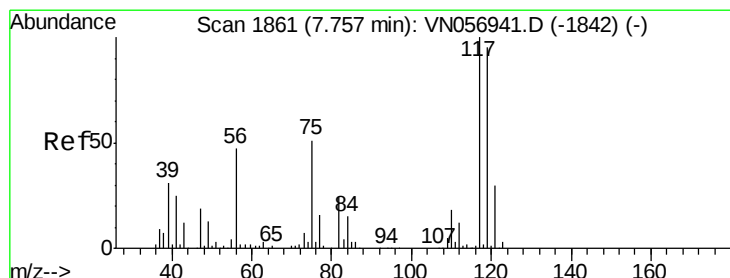
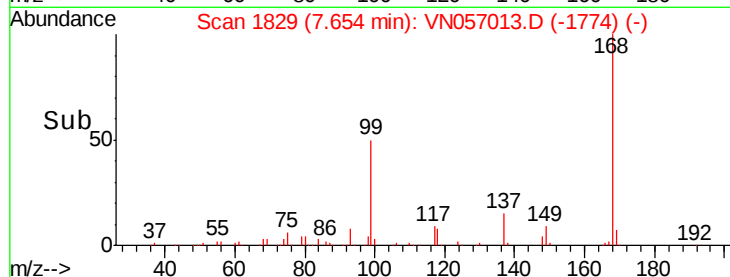
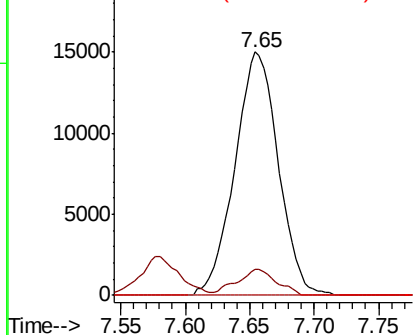
#36
 1,1-Dichloropropene
 Concen: 4.762 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 SS-10_072919

Tot Ion: 75 Resp: 35211
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.6 55.8#
 77 0.0 25.2 37.8#

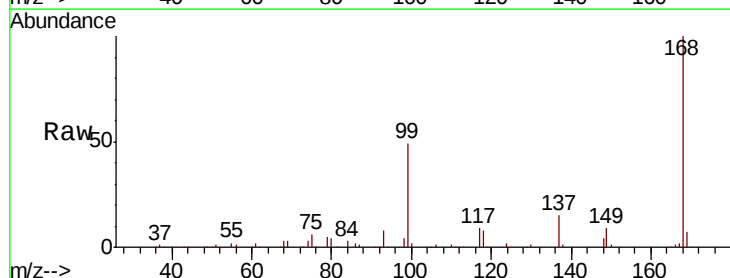


Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)
 Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)
 Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)

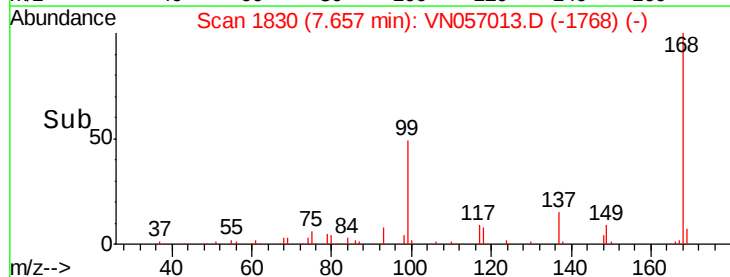
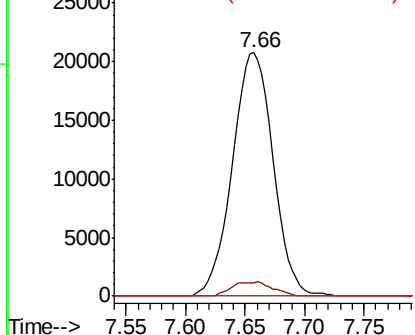


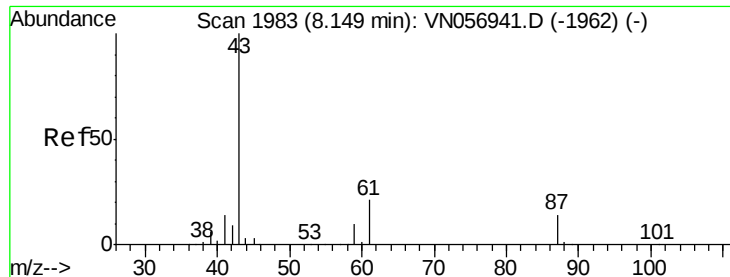
#38
 Carbon Tetrachloride
 Concen: 7.038 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.10 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Tgt Ion: 117 Resp: 49223
 Ion Ratio Lower Upper
 117 100
 119 5.7 75.3 112.9#
 121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): VN056941.D (-1842) (-)
 Ion 118.80 (118.50 to 119.50): VN056941.D (-1842) (-)
 Ion 120.80 (120.50 to 121.50): VN056941.D (-1842) (-)





#43

Isopropyl Acetate

Concen: 1.995 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.02 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

SS-10_072919

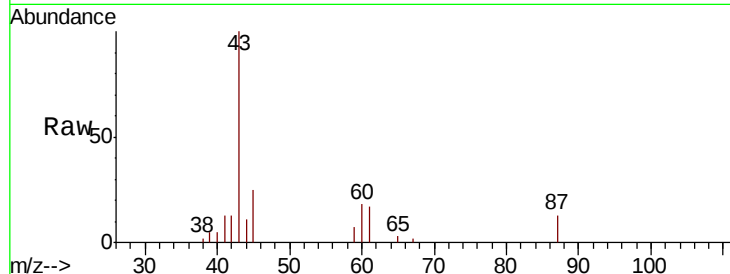
Tot Ion: 43 Resp: 19522

Ion Ratio Lower Upper

43 100

61 22.4 23.0 34.6#

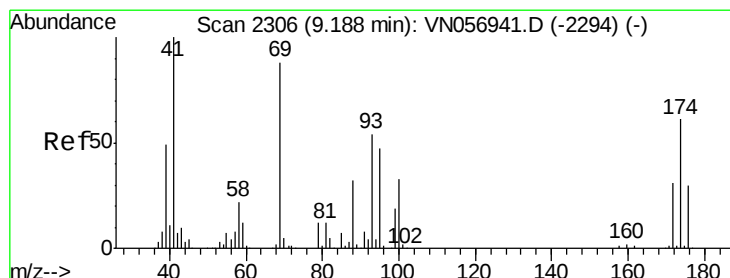
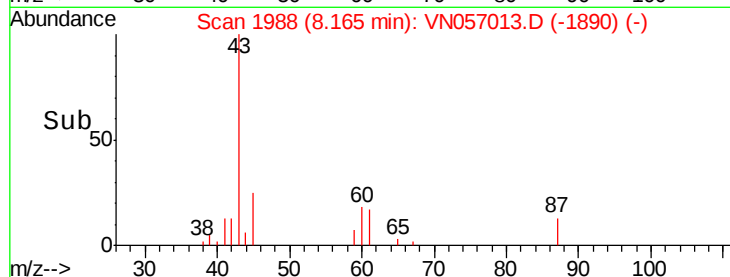
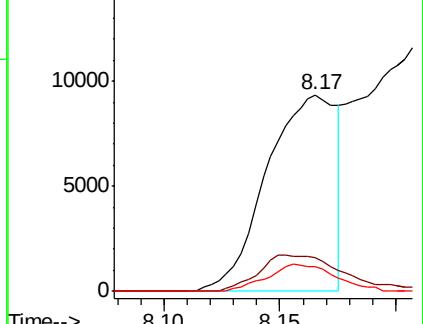
87 13.4 11.7 17.5



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: 1.650 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

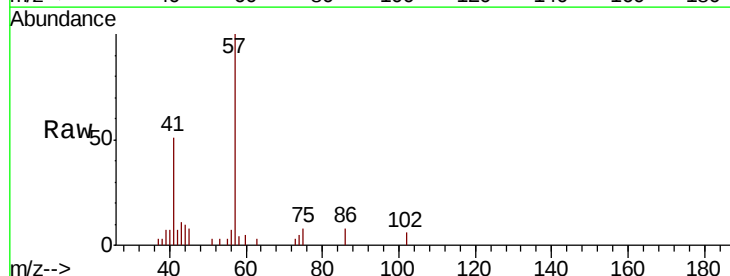
Tgt Ion: 41 Resp: 7797

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

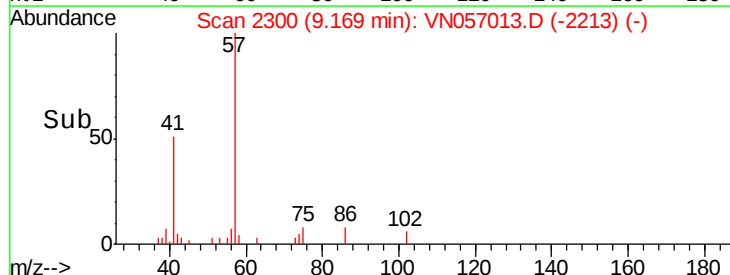
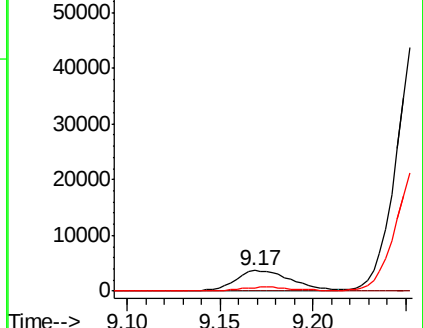
39 0.0 39.9 59.9#

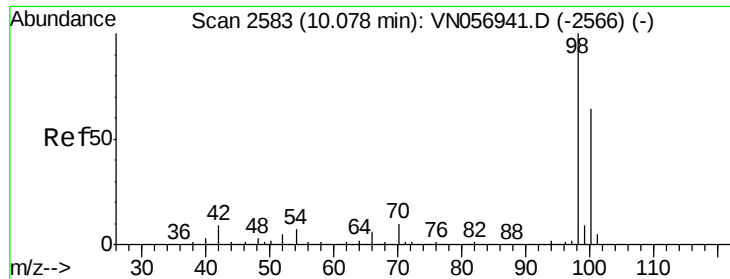


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 48.576 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

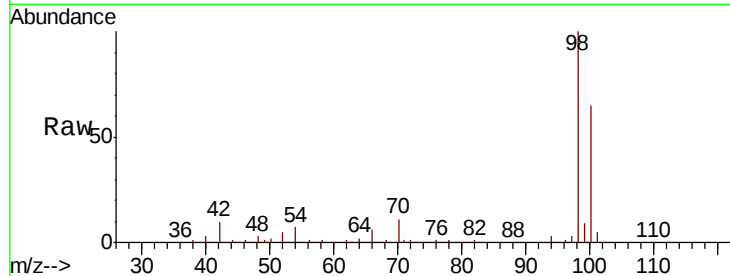
SS-10_072919

Tot Ion: 98 Resp: 996395

Ion Ratio Lower Upper

98 100

100 65.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN056941.D (-2566) (-)

Ion 100.00 (99.70 to 100.70): VN056941.D (-2566) (-)

10.08

600000

500000

400000

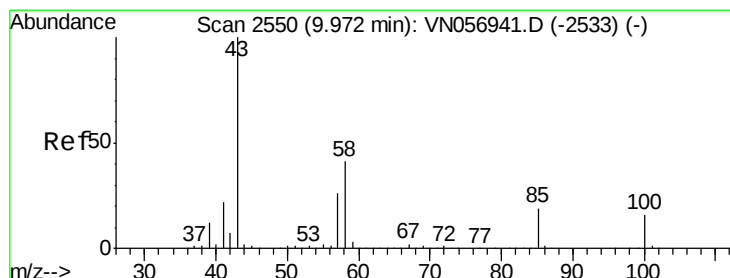
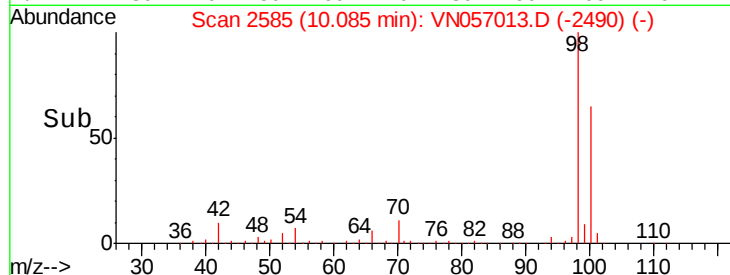
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.547 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN057013.D

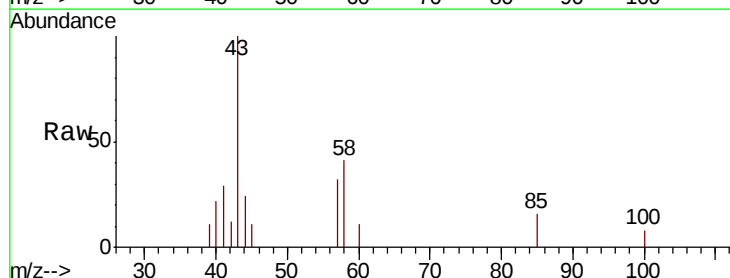
Acq: 31 Jul 2019 14:41

Tgt Ion: 43 Resp: 3183

Ion Ratio Lower Upper

43 100

58 51.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)

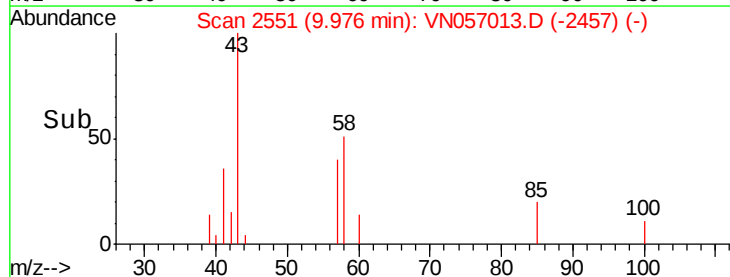
6000

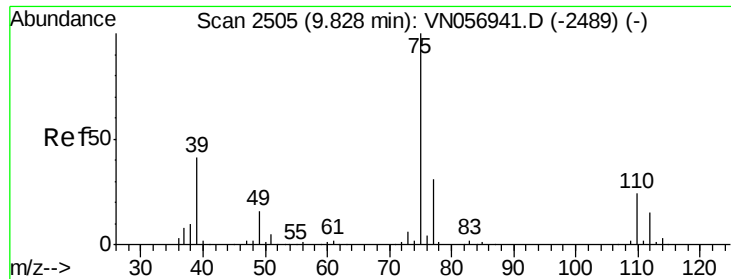
4000

2000

0

Time-->



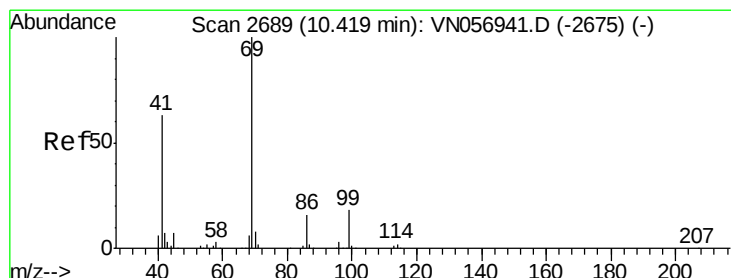
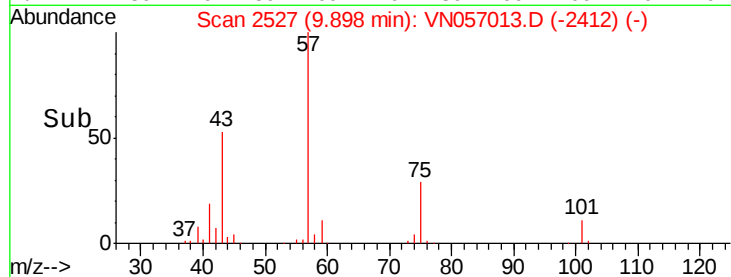
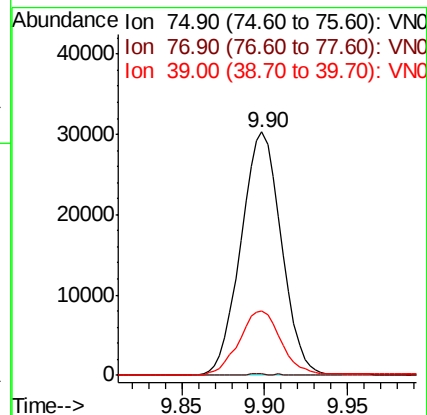
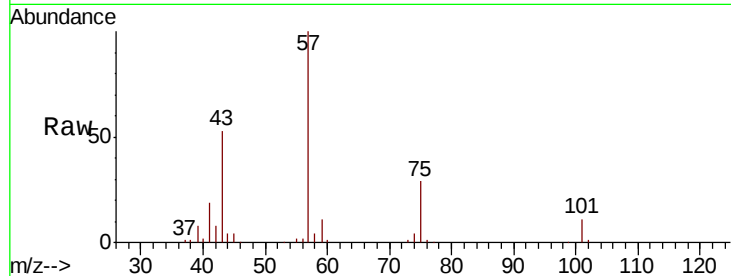


#54

cis-1,3-Dichloropropene
 Concen: 5.912 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Instrument :
 MSVOA_N
 ClientSampleId :
 SS-10_072919

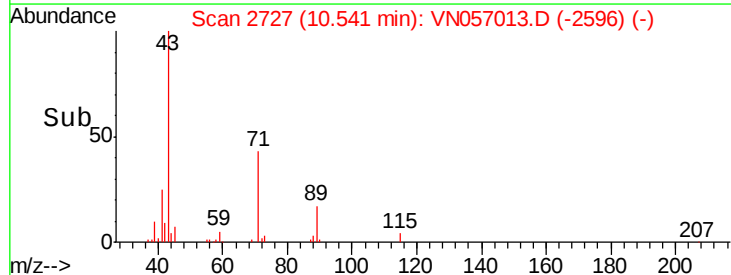
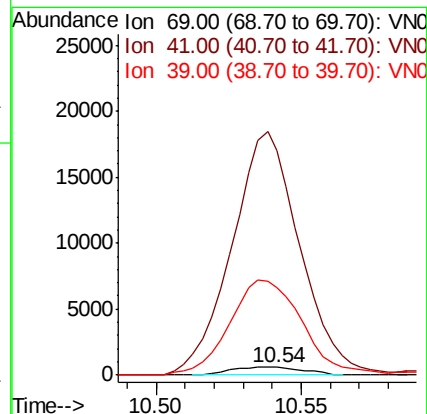
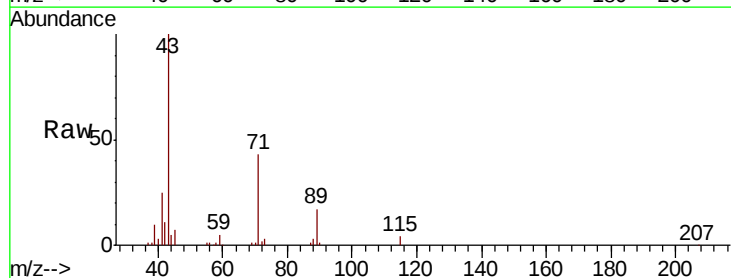
Tot Ion: 75 Resp: 51521
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.0 37.6#
 39 26.5 32.6 49.0#

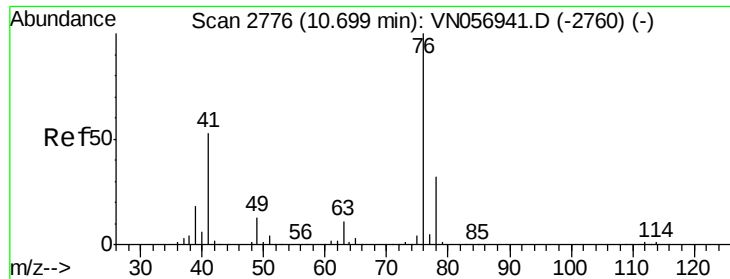


#56

Ethyl methacrylate
 Concen: 1.881 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN057013.D
 Acq: 31 Jul 2019 14:41

Tgt Ion: 69 Resp: 1038
 Ion Ratio Lower Upper
 69 100
 41 2910.4 49.2 73.8#
 39 1204.8 23.1 34.7#





#57

1,3-Dichloropropane

Concen: 1.016 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampled :

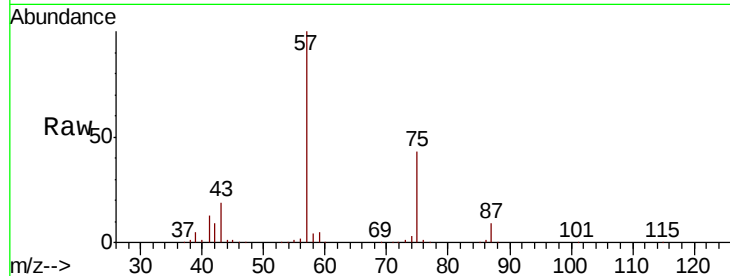
SS-10_072919

Tot Ion: 76 Resp: 9240

Ion Ratio Lower Upper

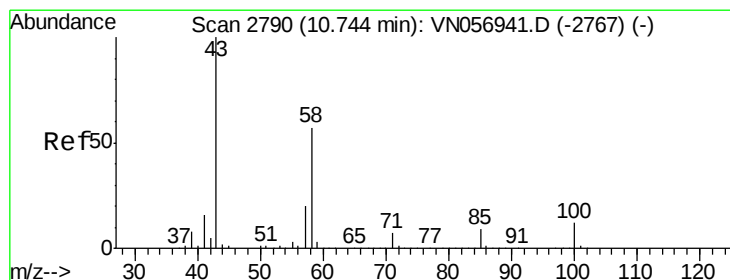
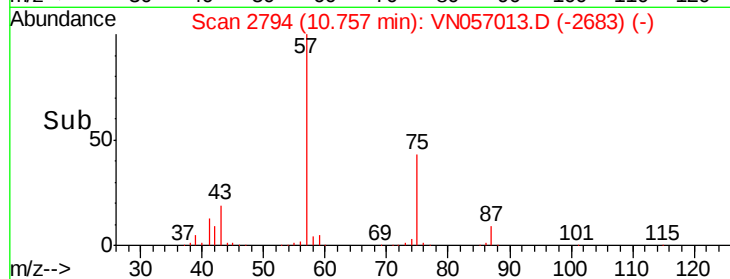
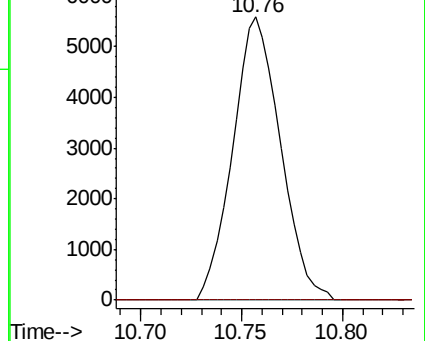
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 29.039 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN057013.D

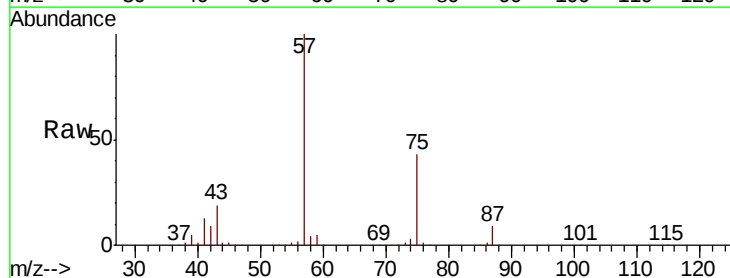
Acq: 31 Jul 2019 14:41

Tgt Ion: 43 Resp: 120048

Ion Ratio Lower Upper

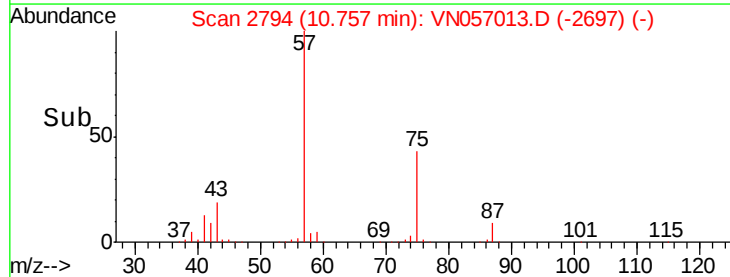
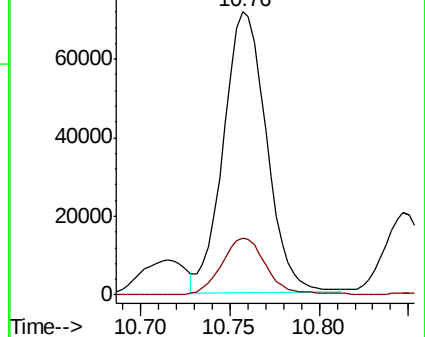
43 100

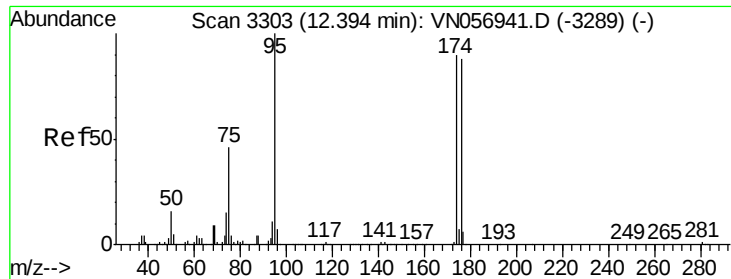
58 20.8 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

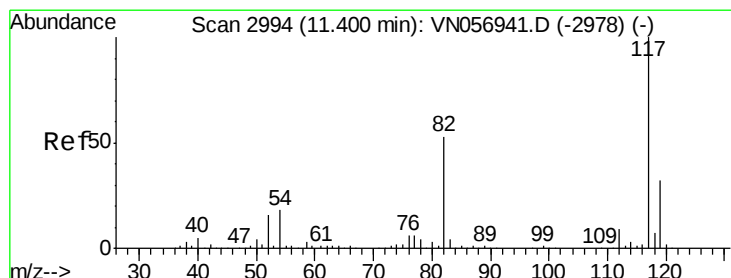
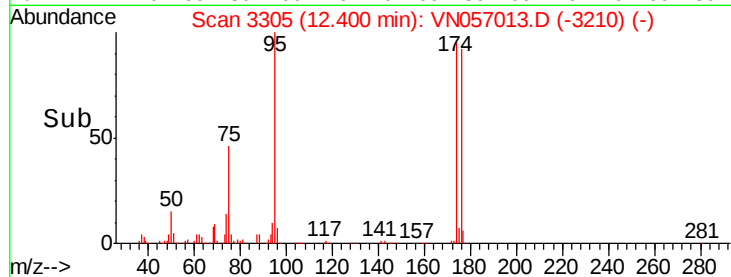
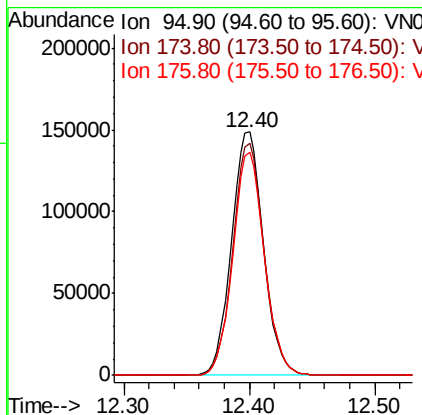
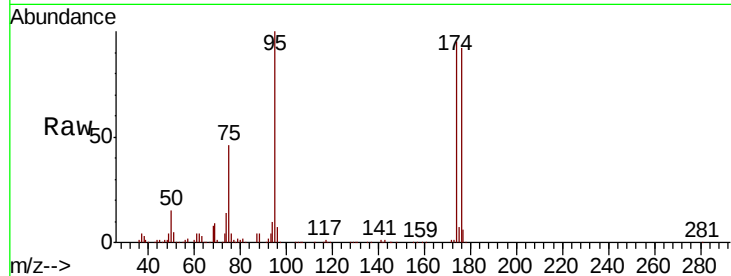




#62
4-Bromofluorobenzene
Concen: 39.253 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.01 min
Lab File: VN057013.D
Acq: 31 Jul 2019 14:41

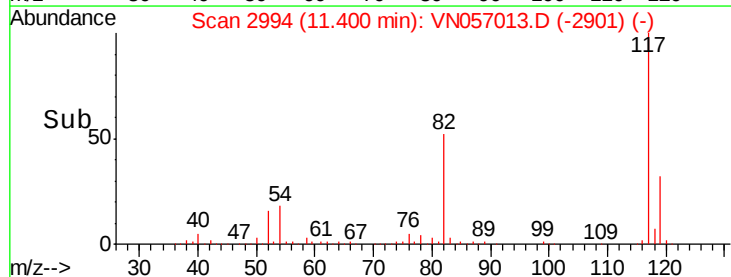
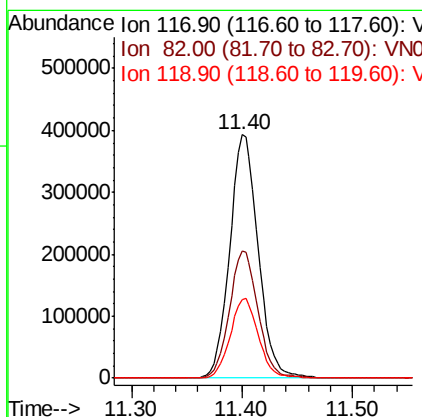
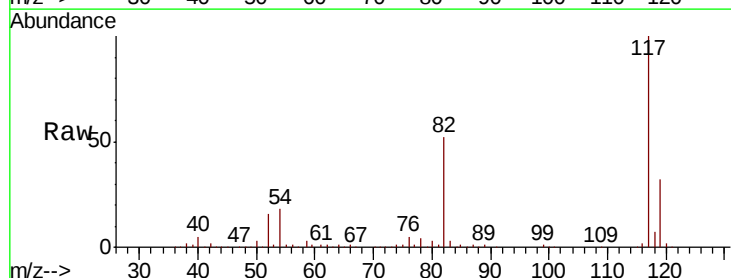
Instrument :
MSVOA_N
ClientSampleId :
SS-10_072919

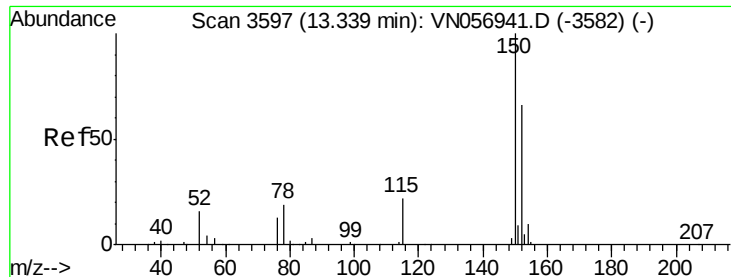
Tot Ion: 95 Resp: 262113
Ion Ratio Lower Upper
95 100
174 93.6 0.0 182.2
176 90.6 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057013.D
Acq: 31 Jul 2019 14:41

Tgt Ion: 117 Resp: 703148
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.4
119 32.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

SS-10_072919

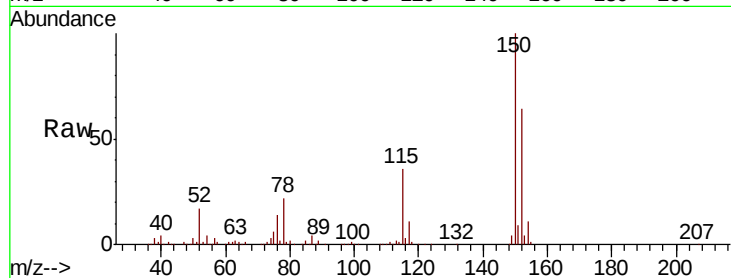
Tot Ion:152 Resp: 193788

Ion Ratio Lower Upper

152 100

115 55.6 28.2 84.6

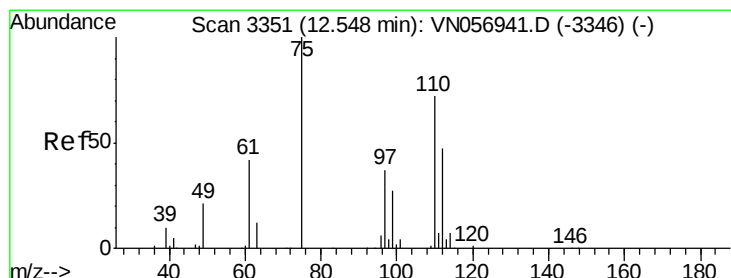
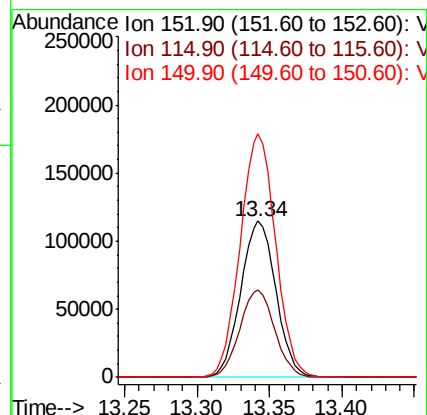
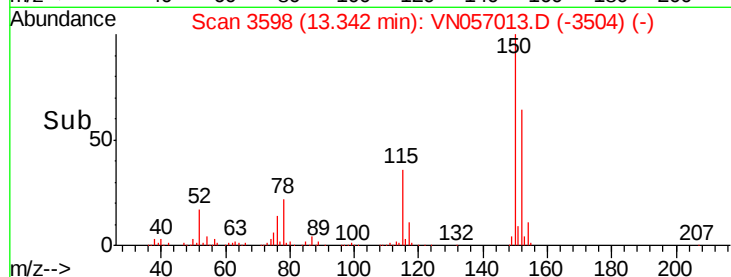
150 156.4 0.0 349.4



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: 30.307 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057013.D

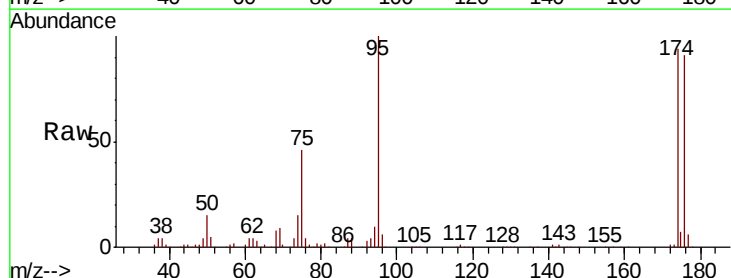
Acq: 31 Jul 2019 14:41

Tgt Ion: 75 Resp: 119274

Ion Ratio Lower Upper

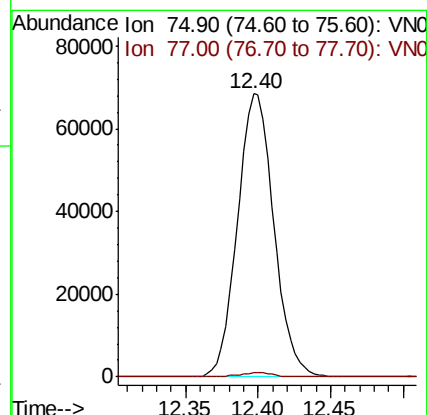
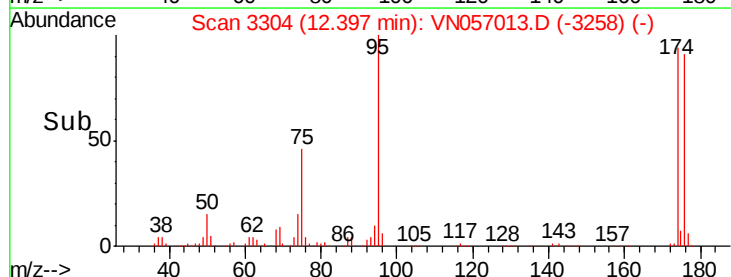
75 100

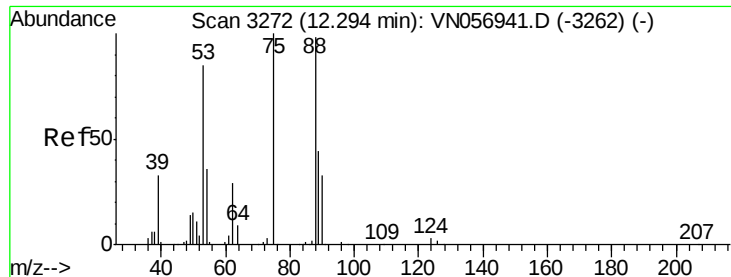
77 1.3 0.0 0.0#



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: 97.376 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

SS-10_072919

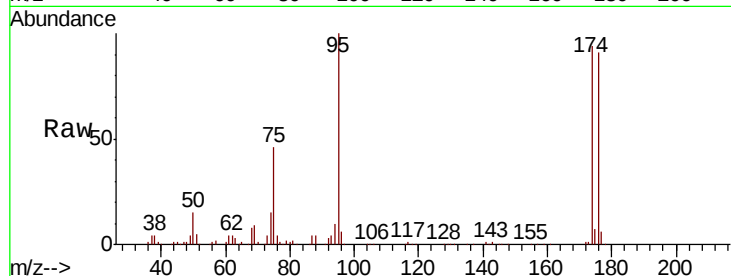
Tot Ion: 75 Resp: 119274

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

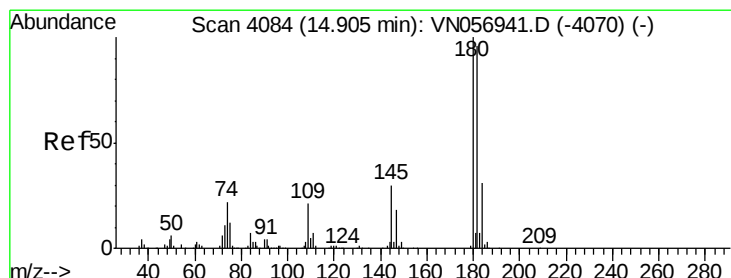
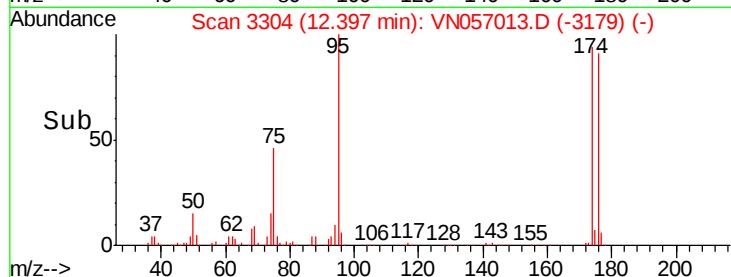
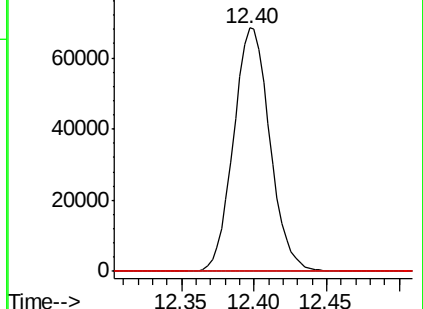
89 0.0 35.8 53.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 2.740 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

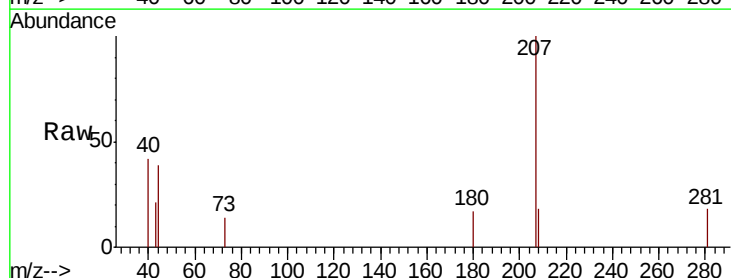
Tgt Ion: 180 Resp: 100

Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.8#

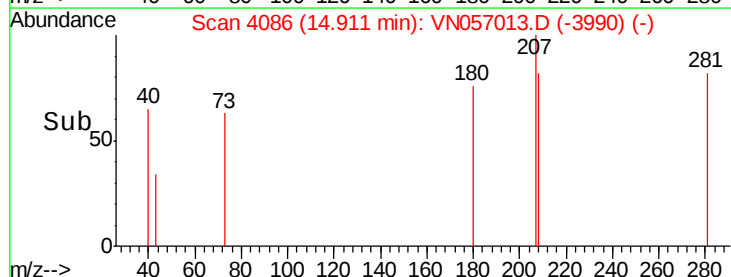
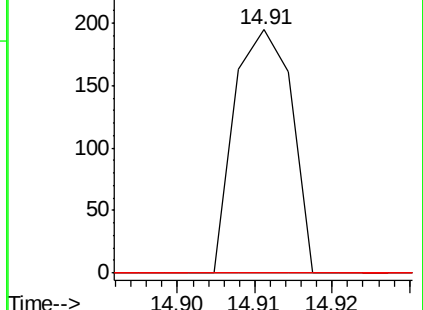
145 0.0 14.2 42.8#

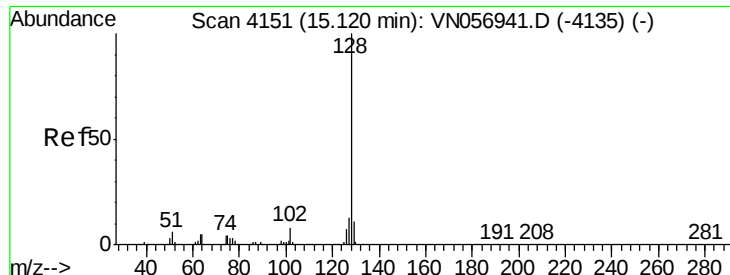


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.607 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057013.D

Acq: 31 Jul 2019 14:41

Instrument :

MSVOA_N

ClientSampleId :

SS-10_072919

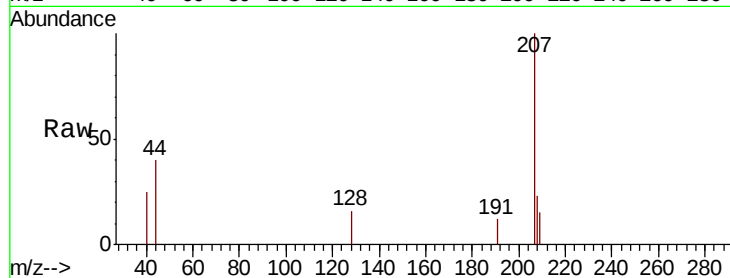
Tot Ion:128 Resp: 174

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

