

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059913.D
 Acq On : 29 Jan 2020 15:33
 Operator : JC/MD
 Sample : L1289-38
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:03:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206394	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	311713	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	118285	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	110994	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	7.57	113	94568	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	10.08	98	371219	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.40	95	125165	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	

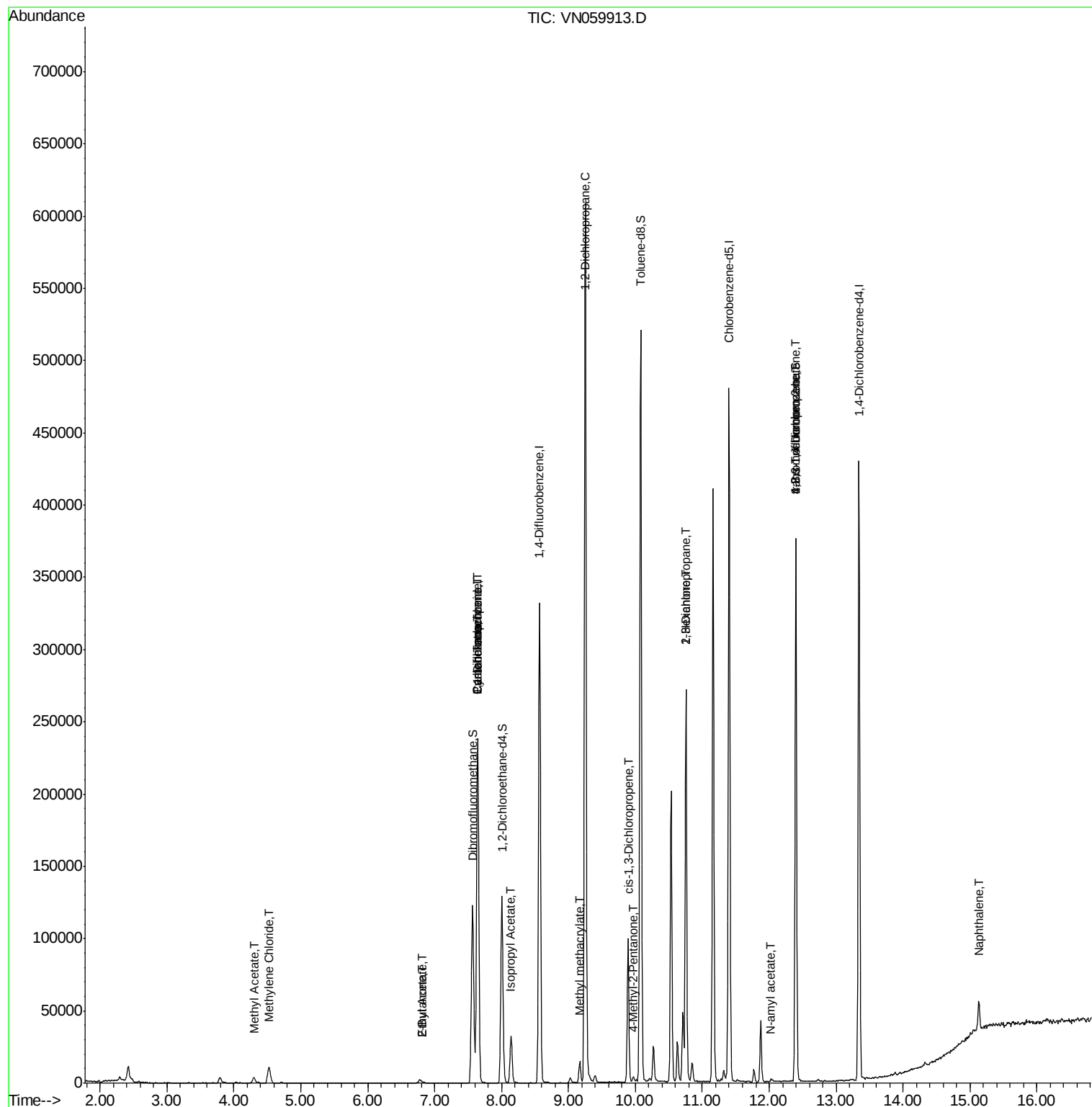
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6654	Below Cal		98
18) Methyl Acetate	4.30	43	7237	2.703	ug/l	95
20) Methylene Chloride	4.52	84	8822	3.039	ug/l	92
25) 2-Butanone	6.82	43	1197	0.922	ug/l #	50
31) Cyclohexane	7.64	56	3687	1.087	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13821	5.092	ug/l #	50
37) Ethyl Acetate	6.82	43	1197	0.470	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19112	6.472	ug/l #	15
43) Isopropyl Acetate	8.14	43	38093	8.699	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	648	0.323	ug/l #	44
48) Methyl methacrylate	9.17	41	1778	0.908	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2407	0.951	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	19251	5.754	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	2867	0.892	ug/l #	42
59) 2-Hexanone	10.75	43	36686	19.671	ug/l #	56
74) N-amyl acetate	12.02	43	1202	0.357	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63817	32.059	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63817	68.847	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.30	75	92	Below Cal	#	6
95) Naphthalene	15.13	128	18255	2.831	ug/l	98

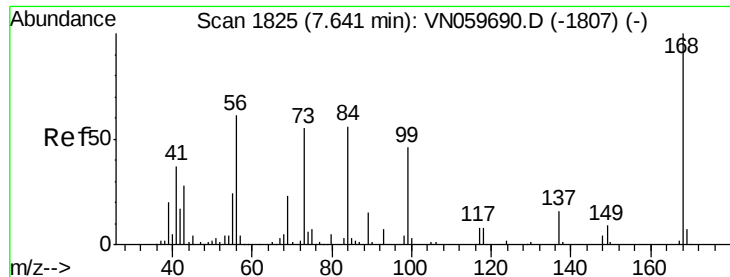
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

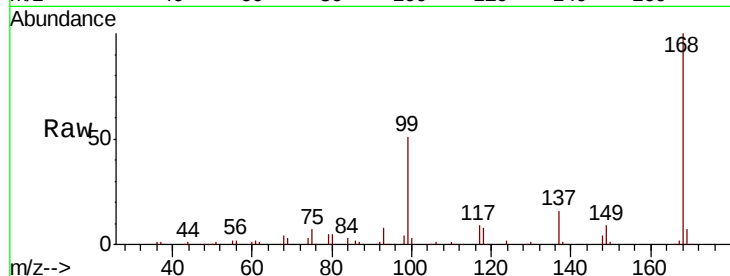
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 206394

Ion Ratio Lower Upper

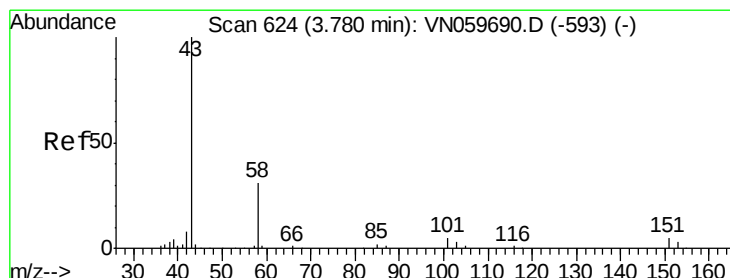
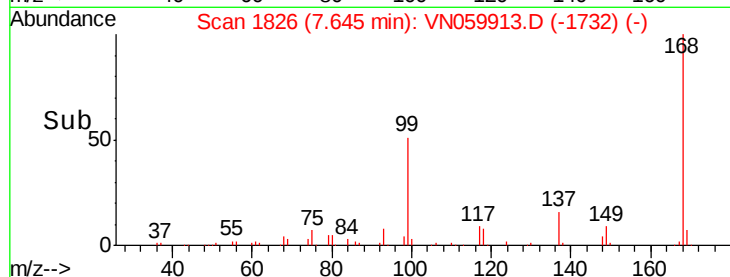
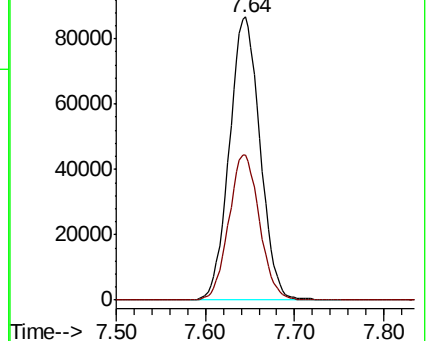
168 100

99 51.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059913.D

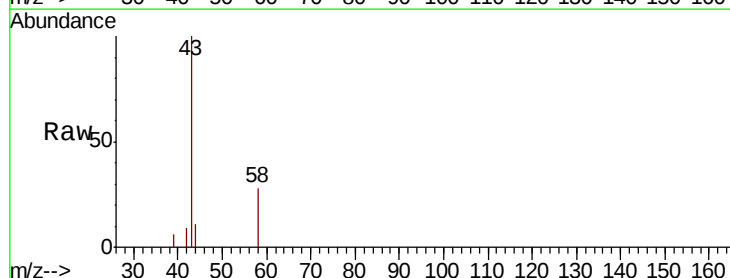
Acq: 29 Jan 2020 15:33

Tgt Ion: 43 Resp: 6654

Ion Ratio Lower Upper

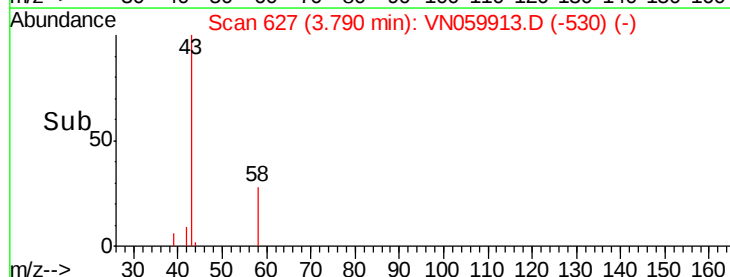
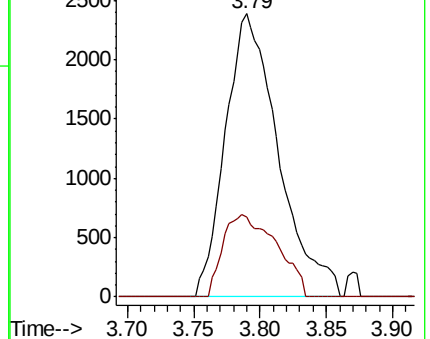
43 100

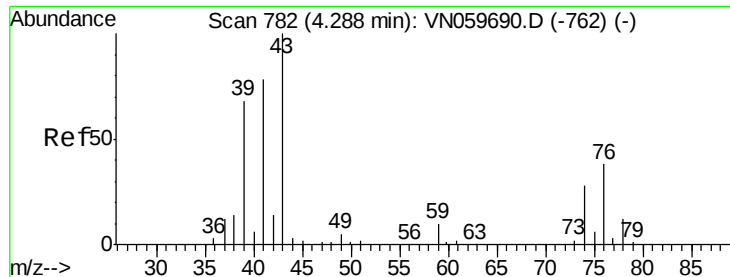
58 28.3 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

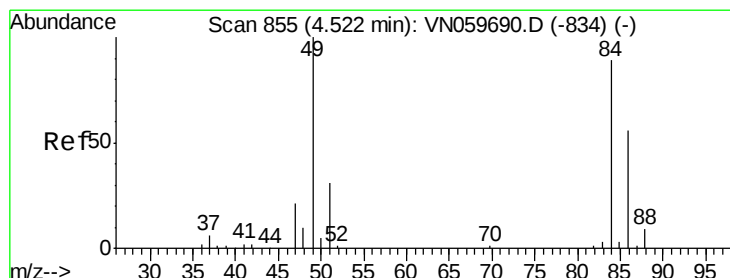
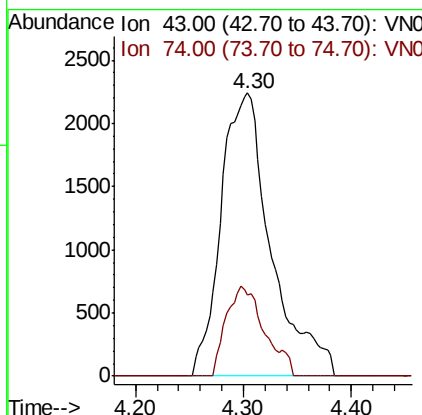
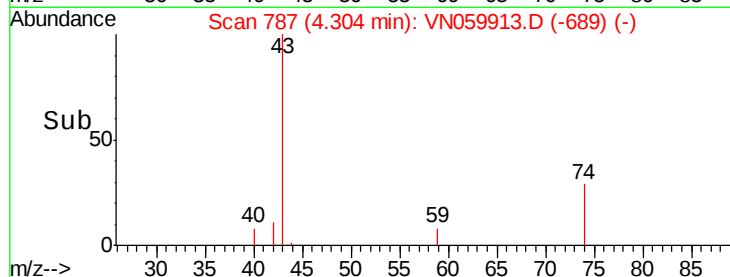
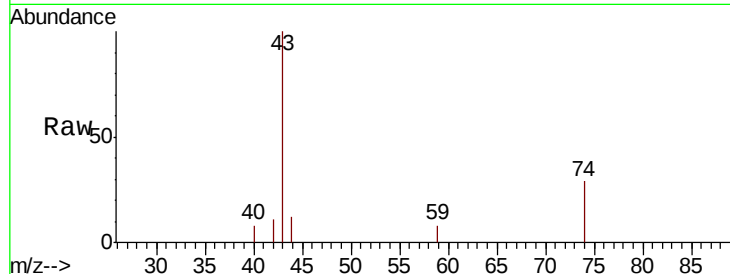




#18
Methyl Acetate
Concen: 2.703 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

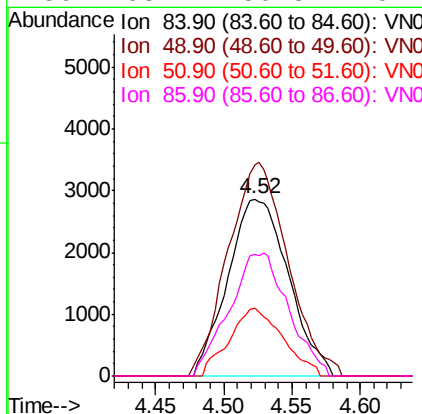
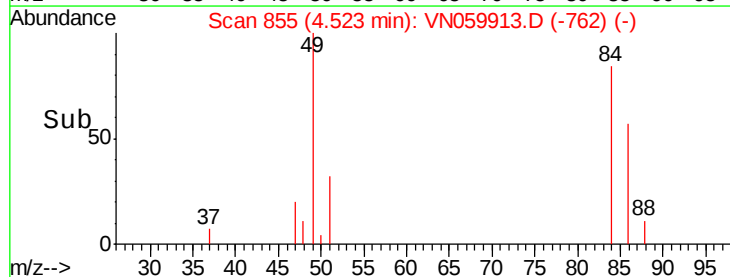
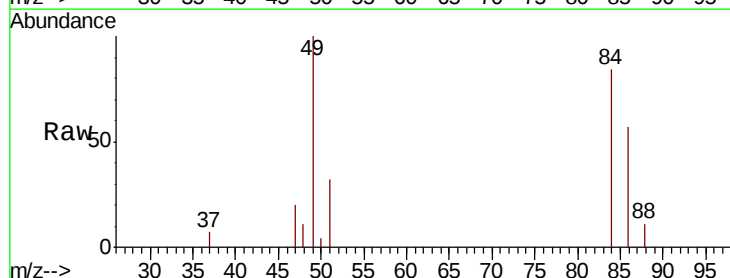
Instrument :
MSVOA_N
ClientSampled :

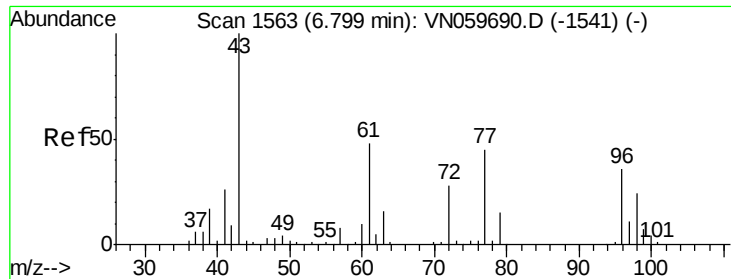
Tot Ion: 43 Resp: 7237
Ion Ratio Lower Upper
43 100
74 24.3 17.5 26.3



#20
Methylene Chloride
Concen: 3.039 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Tgt Ion: 84 Resp: 8822
Ion Ratio Lower Upper
84 100
49 119.7 106.6 160.0
51 38.7 31.9 47.9
86 68.4 50.8 76.2





#25

2-Butanone

Concen: 0.922 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

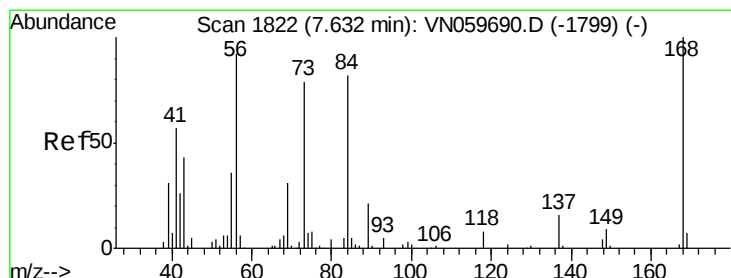
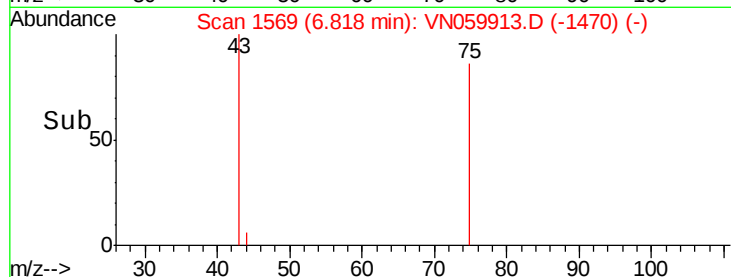
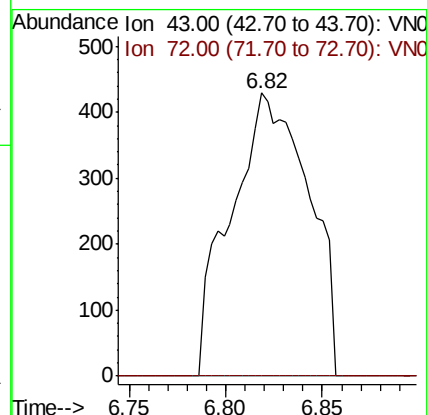
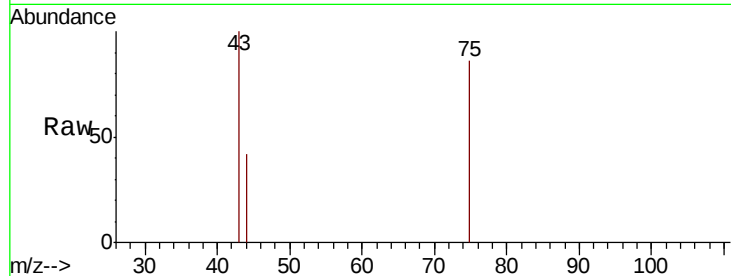
ClientSampleId :

Tot Ion: 43 Resp: 1197

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.087 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

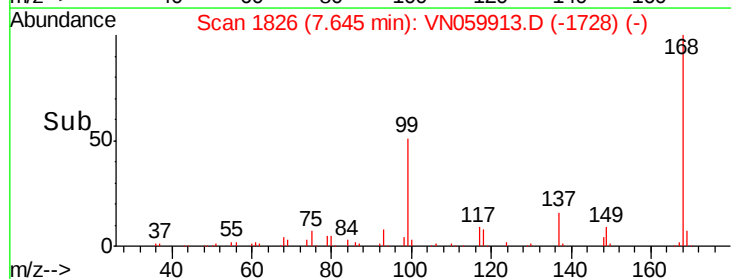
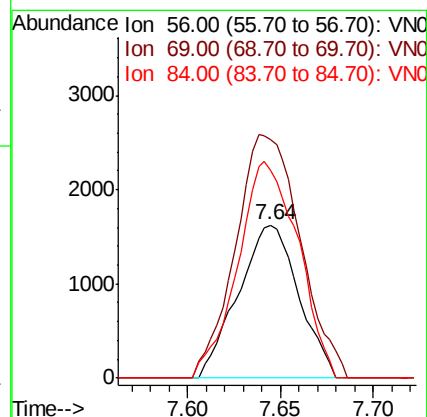
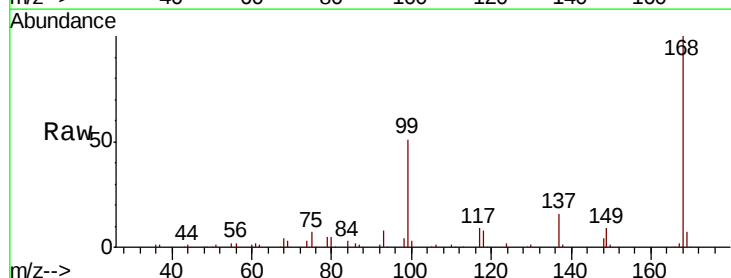
Tgt Ion: 56 Resp: 3687

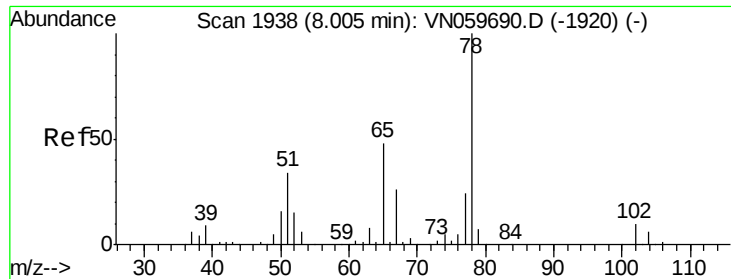
Ion Ratio Lower Upper

56 100

69 156.0 26.5 39.7#

84 135.9 65.3 97.9#

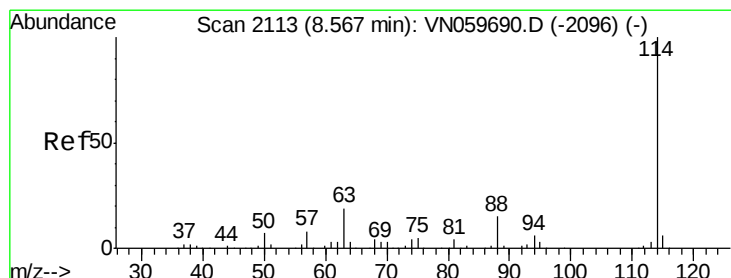
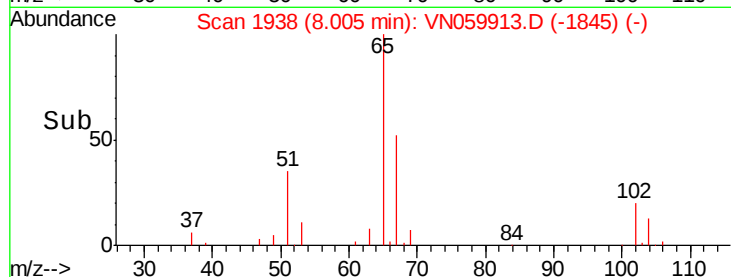
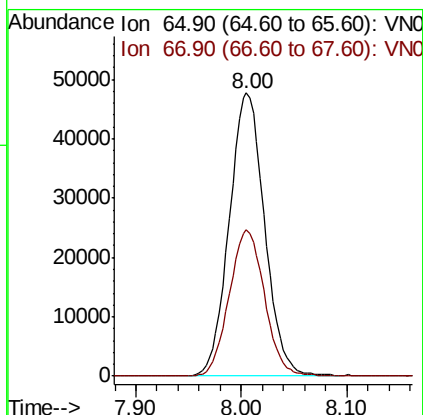
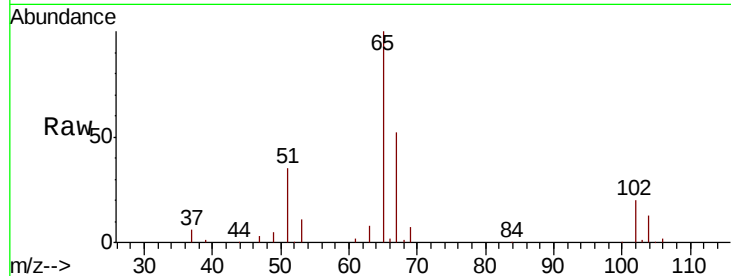




#33
 1,2-Dichloroethane-d4
 Concen: 48.425 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

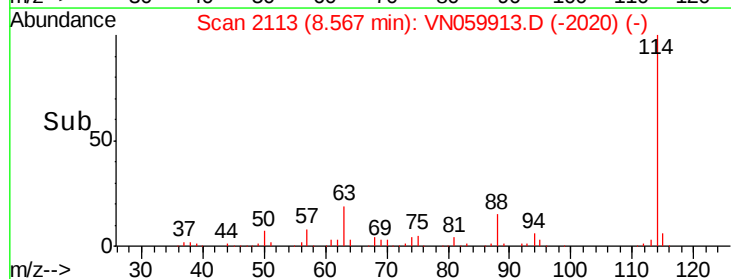
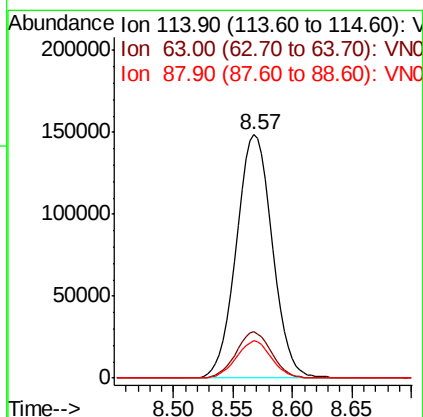
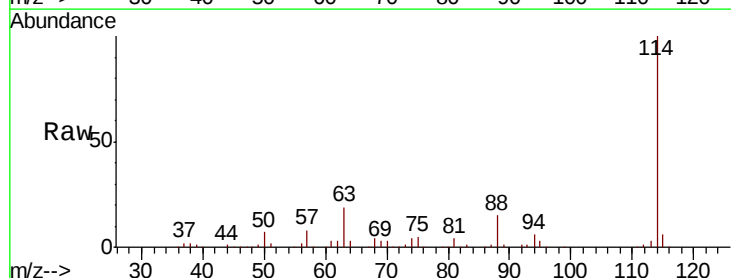
Instrument :
 MSVOA_N
 ClientSampled :

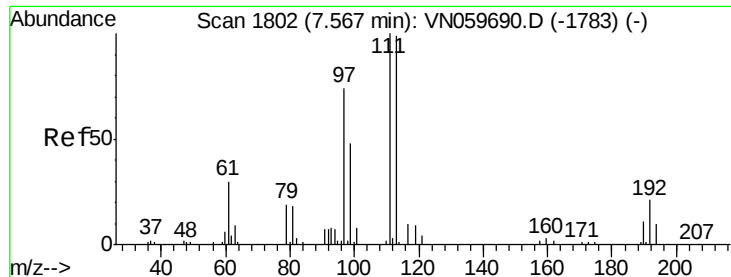
Tot Ion: 65 Resp: 110994
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

Tgt Ion: 114 Resp: 311713
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 43.6
 88 15.2 0.0 31.4

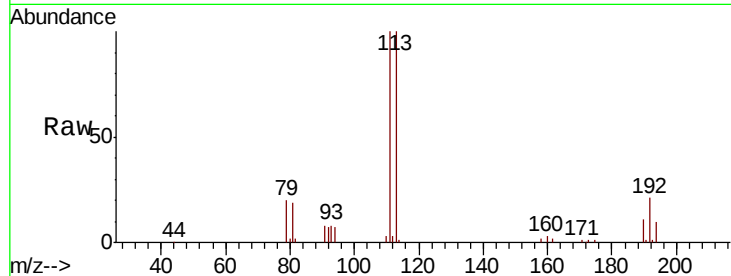




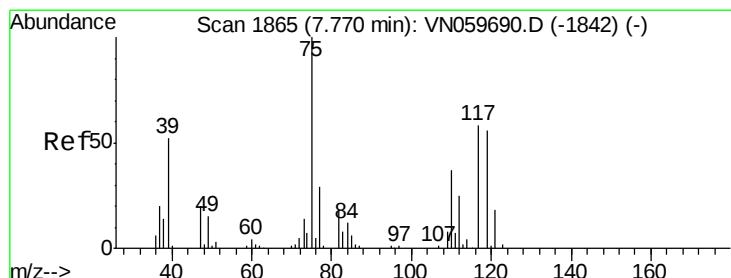
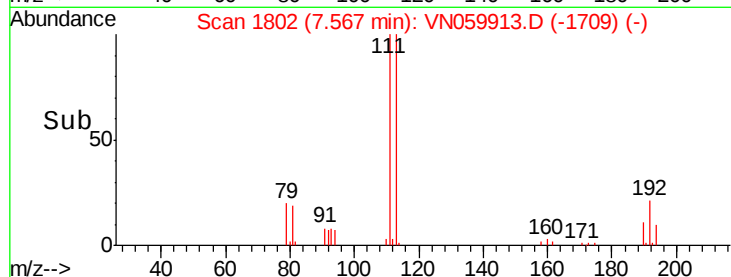
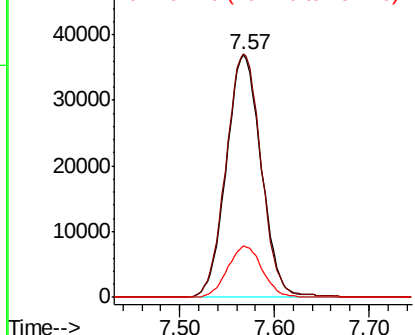
#35
 Dibromofluoromethane
 Concen: 50.874 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 94568
 Ion Ratio Lower Upper
 113 100
 111 101.2 83.5 125.3
 192 20.9 15.4 23.2

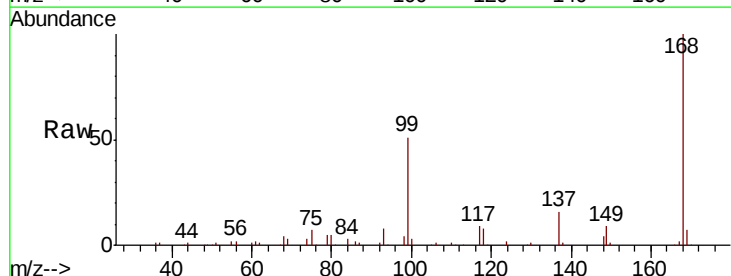


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

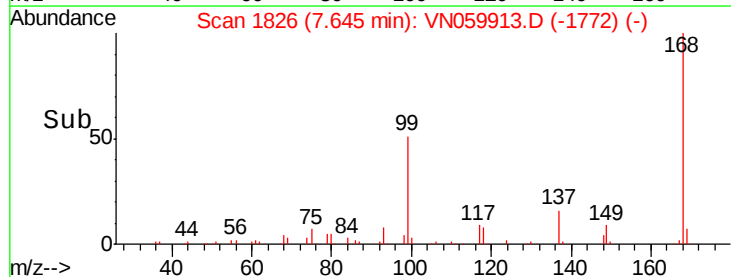
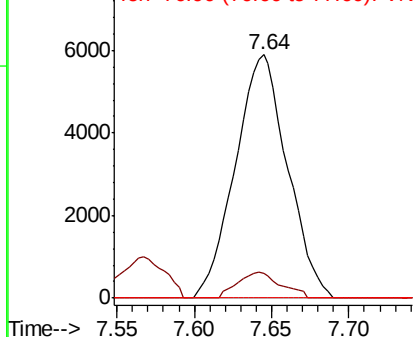


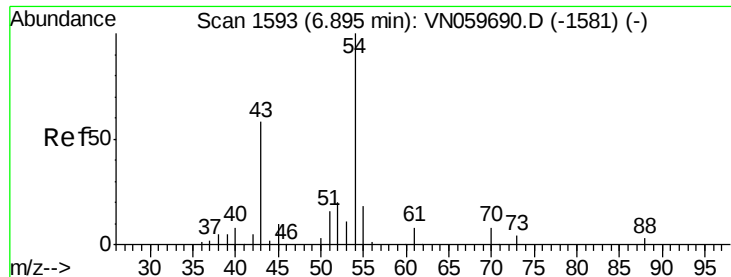
#36
 1,1-Dichloropropene
 Concen: 5.092 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

Tgt Ion: 75 Resp: 13821
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.6 49.7#
 77 0.0 25.1 37.7#



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

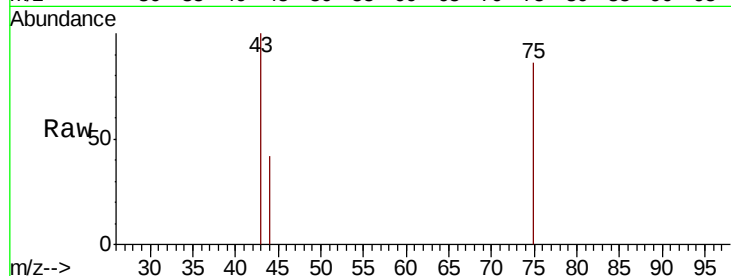




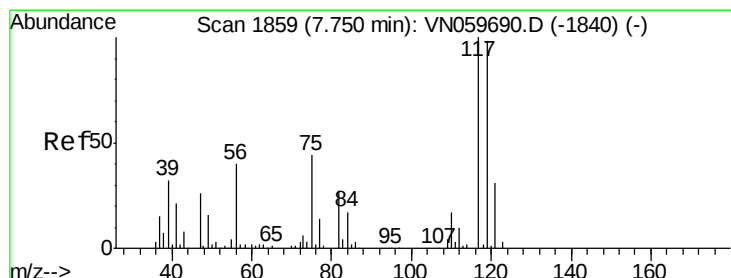
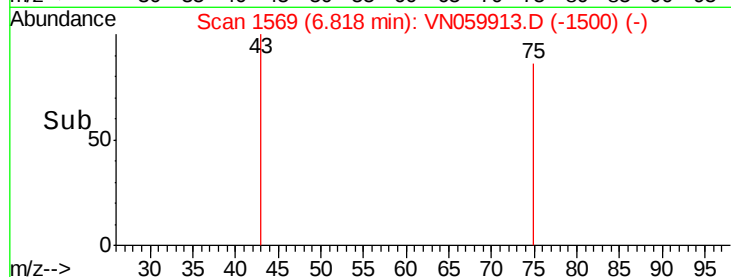
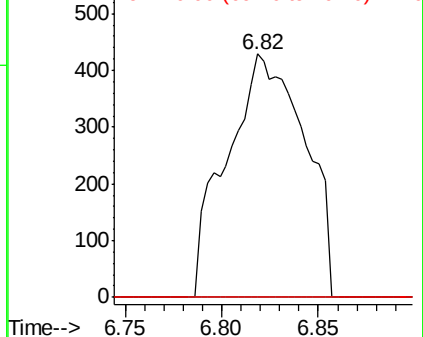
#37
Ethyl Acetate
Concen: 0.470 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.08 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

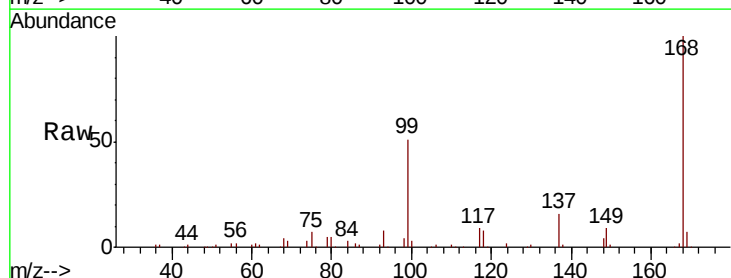


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

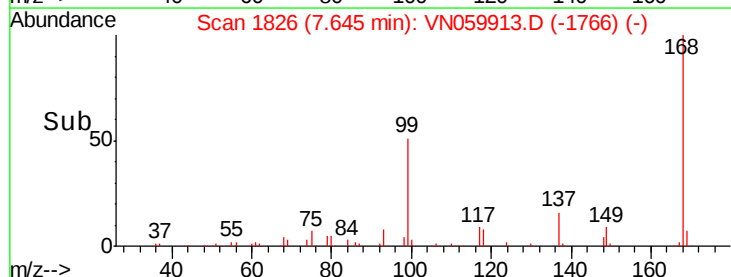
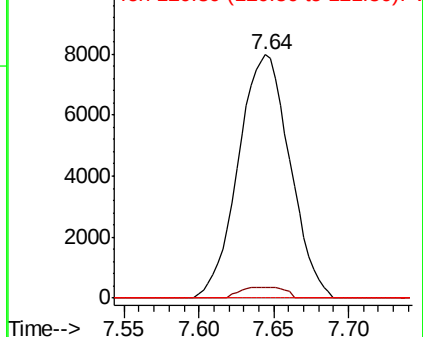


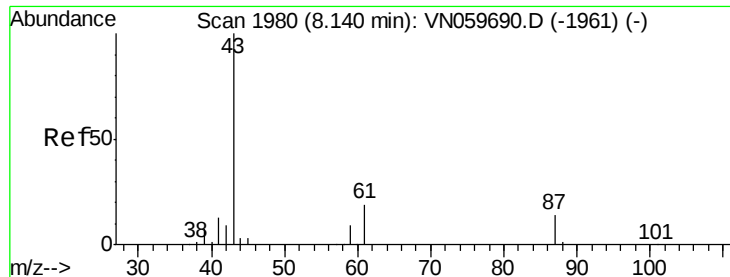
#38
Carbon Tetrachloride
Concen: 6.472 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Tgt Ion: 117 Resp: 19112
Ion Ratio Lower Upper
117 100
119 4.3 76.5 114.7#
121 0.0 25.1 37.7#



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: 8.699 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

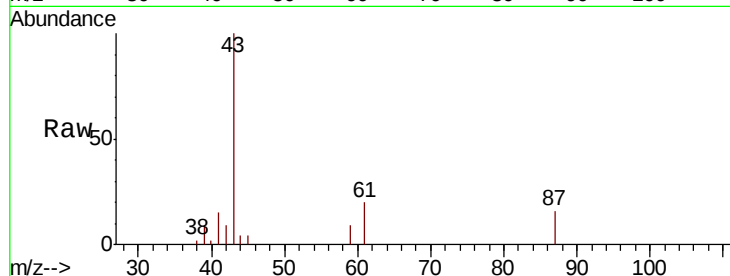
Tot Ion: 43 Resp: 38093

Ion Ratio Lower Upper

43 100

61 20.9 20.2 30.2

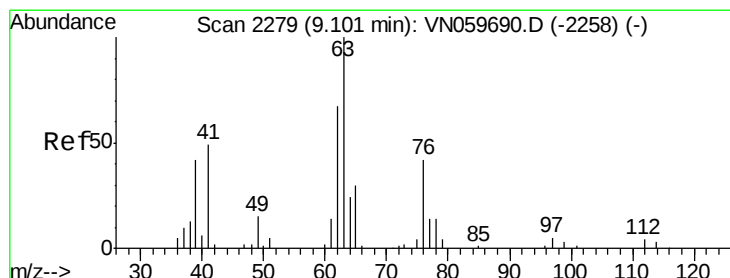
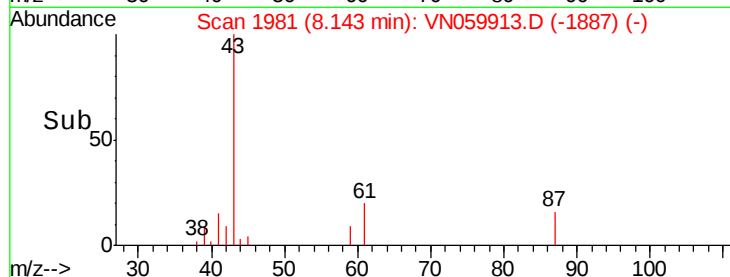
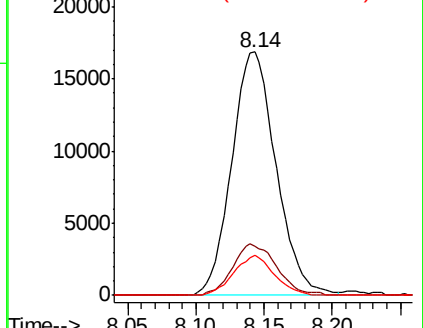
87 15.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059913.D (-1980) (-)

Ion 61.00 (60.70 to 61.70): VN059913.D (-1980) (-)

Ion 87.00 (86.70 to 87.70): VN059913.D (-1980) (-)



#45

1,2-Dichloropropane

Concen: 0.323 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059913.D

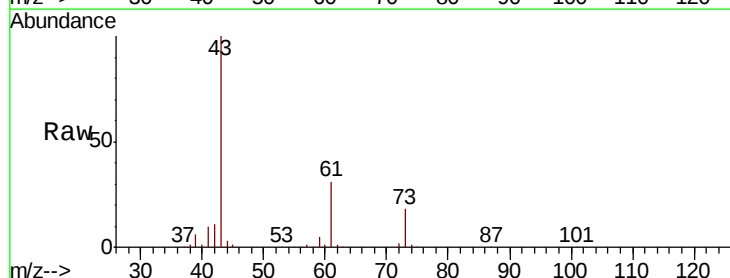
Acq: 29 Jan 2020 15:33

Tgt Ion: 63 Resp: 648

Ion Ratio Lower Upper

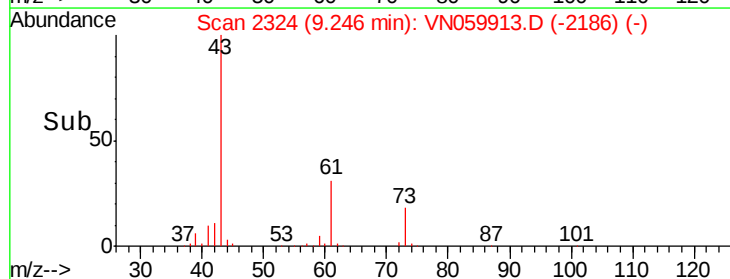
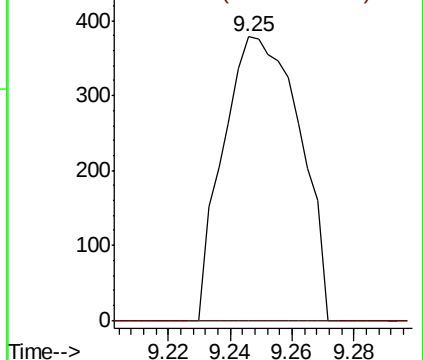
63 100

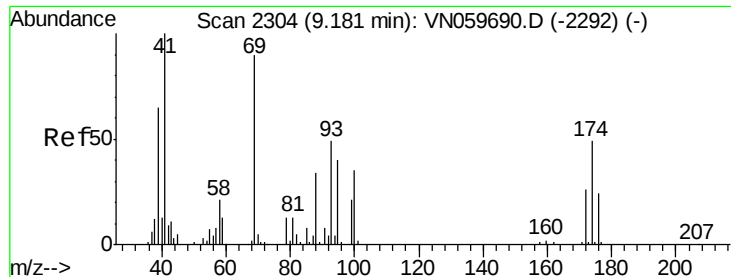
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059913.D (-2324) (-)

Ion 64.90 (64.60 to 65.60): VN059913.D (-2324) (-)

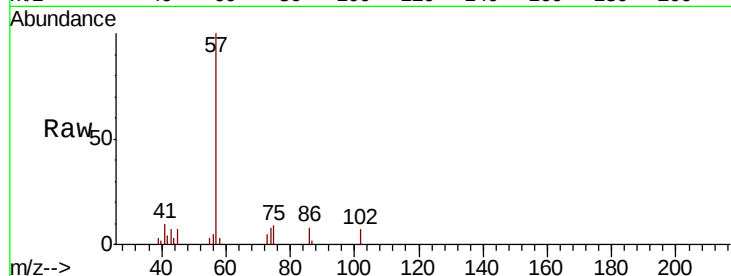




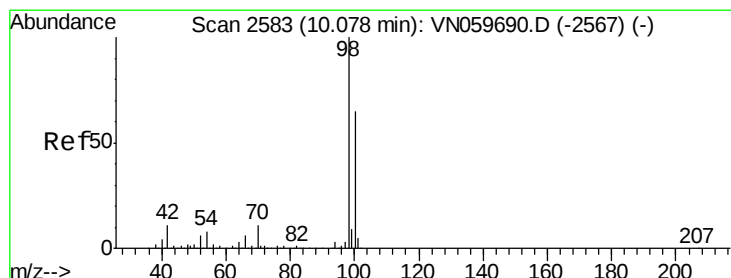
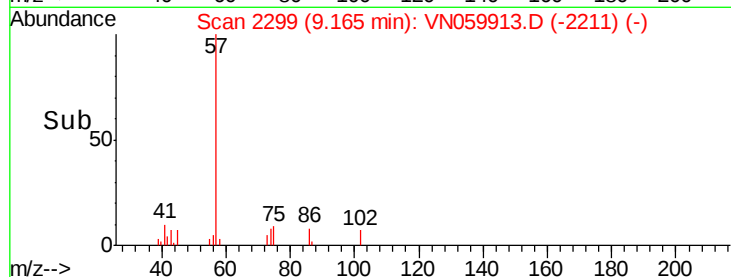
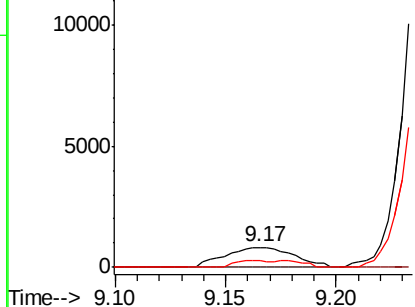
#48
Methvl methacrylate
Concen: 0.908 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 1778
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

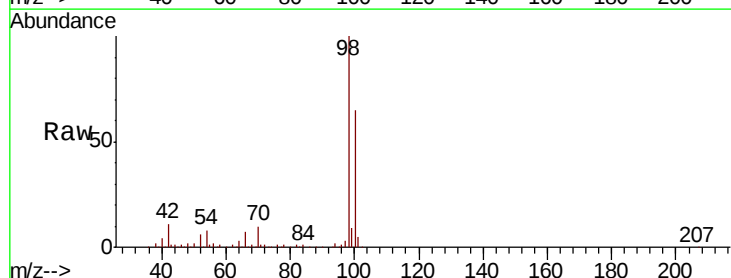


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

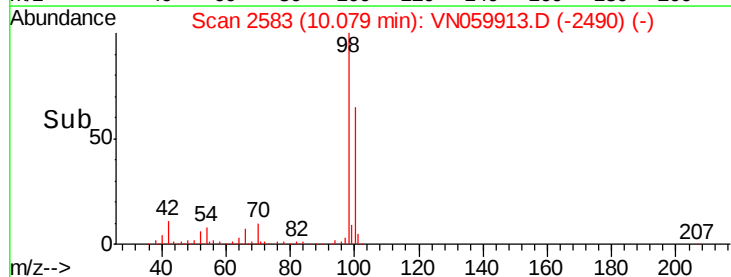
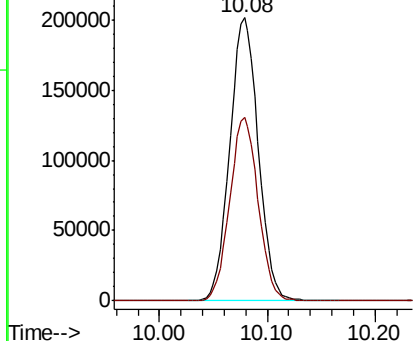


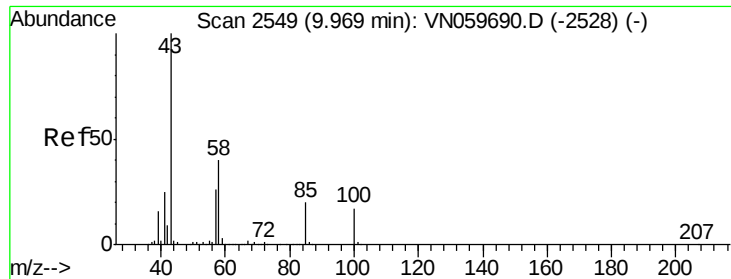
#50
Toluene-d8
Concen: 51.542 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Tgt Ion: 98 Resp: 371219
Ion Ratio Lower Upper
98 100
100 64.6 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: 0.951 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

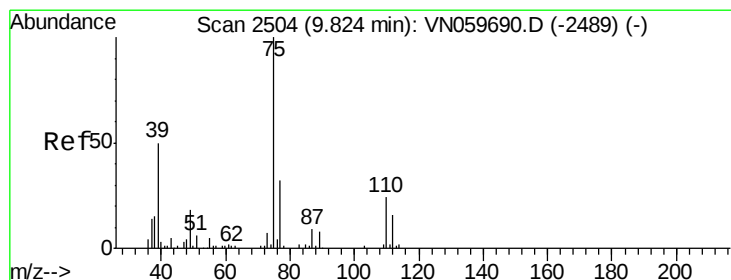
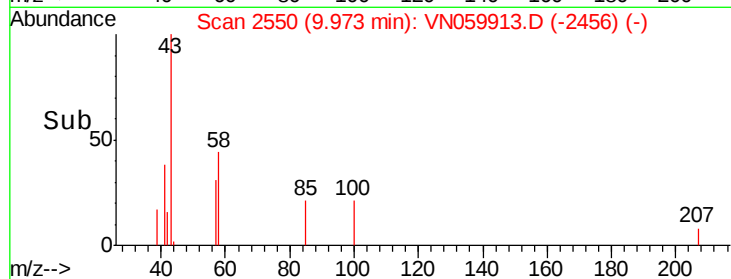
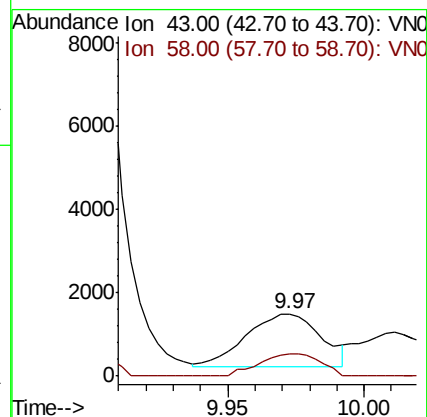
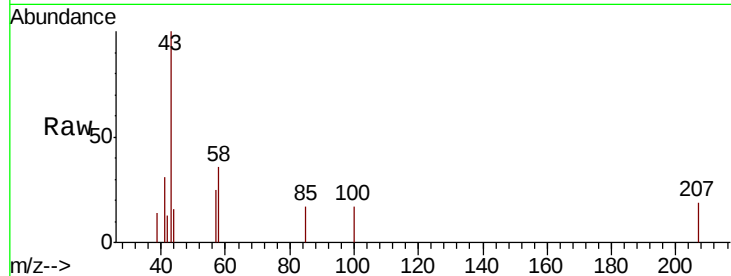
ClientSampleId :

Tot Ion: 43 Resp: 2407

Ion Ratio Lower Upper

43 100

58 34.8 29.8 44.8



#54

cis-1,3-Dichloropropene

Concen: 5.754 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

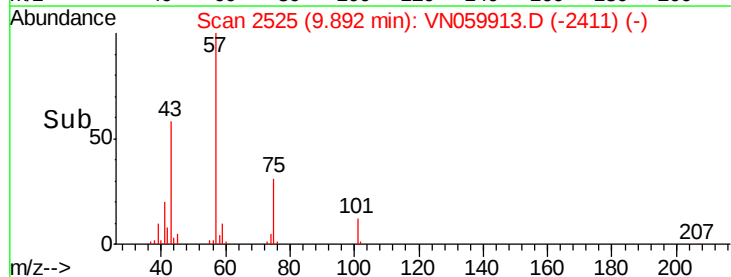
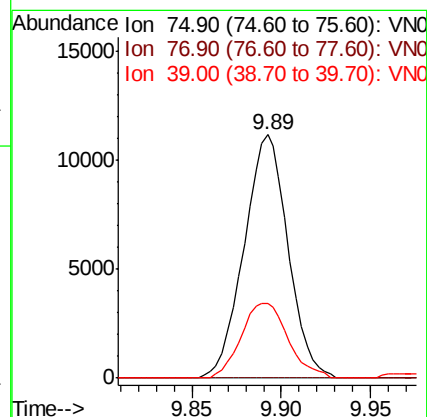
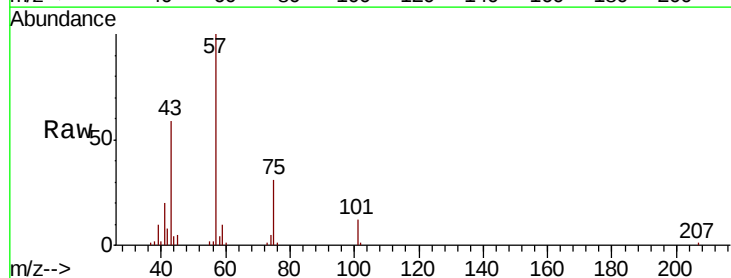
Tgt Ion: 75 Resp: 19251

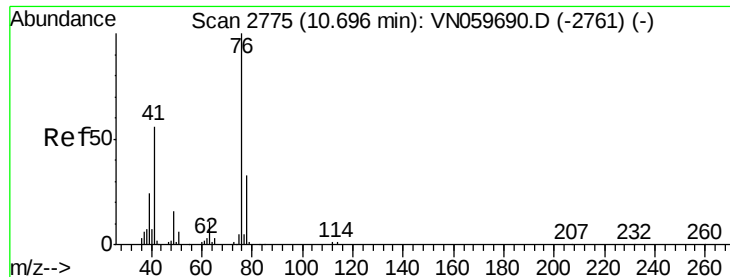
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 30.7 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 0.892 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

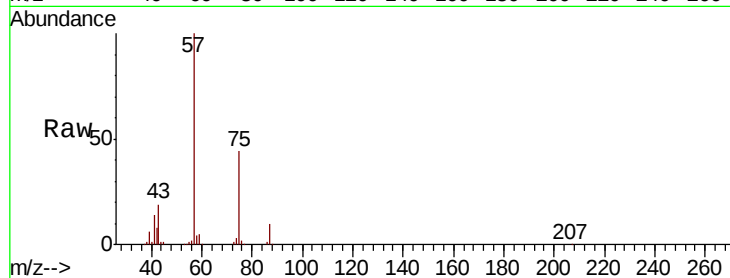
ClientSampleId :

Tot Ion: 76 Resp: 2867

Ion Ratio Lower Upper

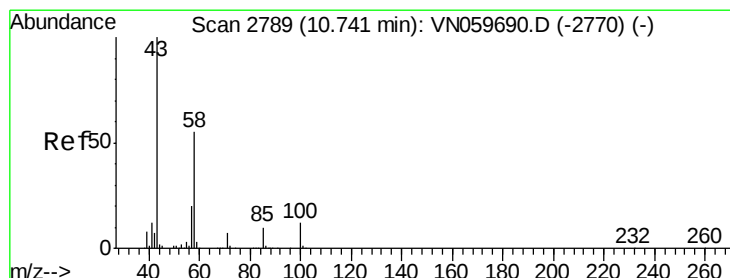
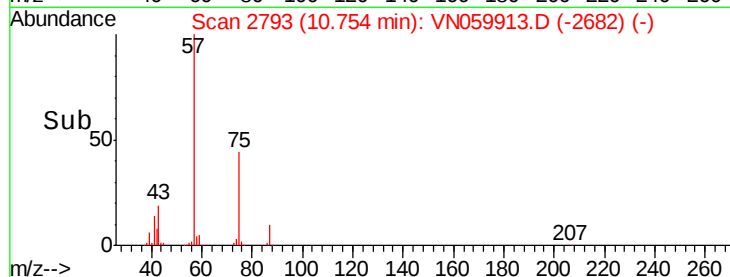
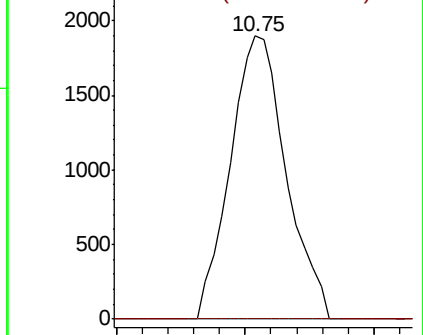
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 19.671 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059913.D

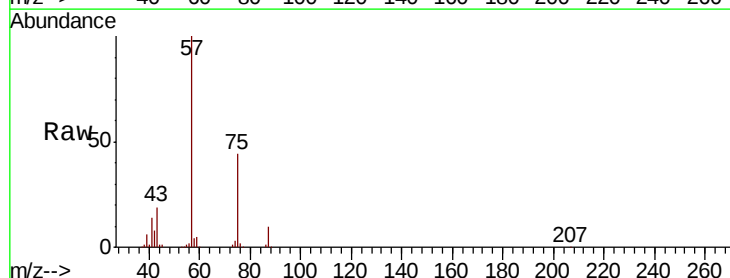
Acq: 29 Jan 2020 15:33

Tgt Ion: 43 Resp: 36686

Ion Ratio Lower Upper

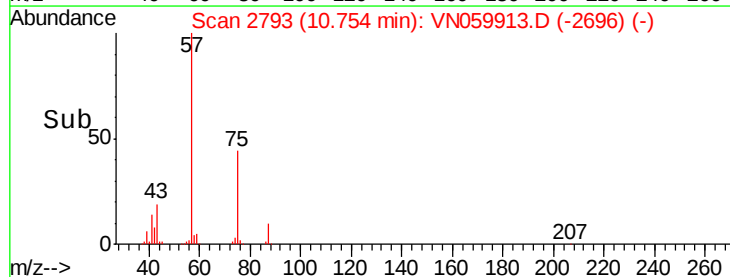
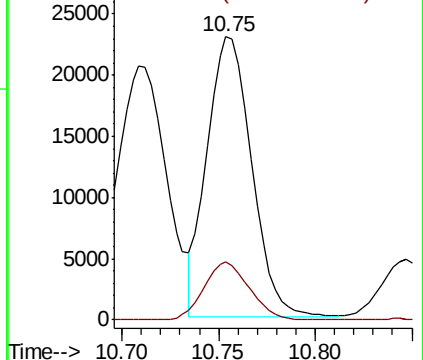
43 100

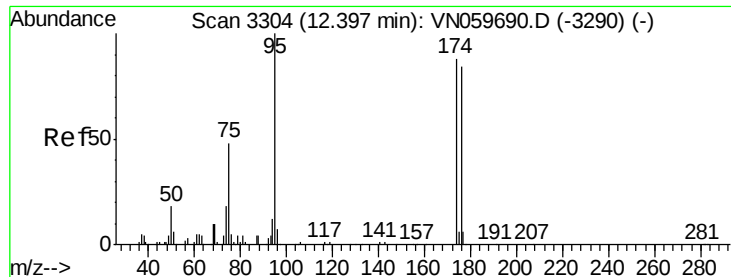
58 21.0 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

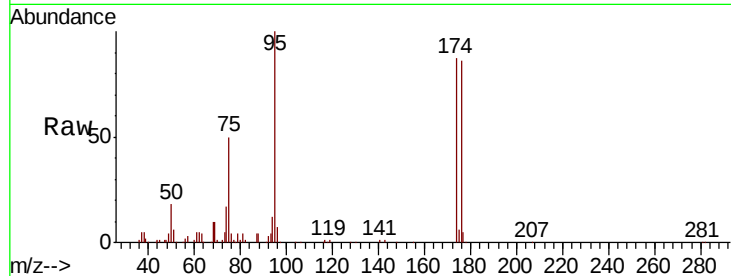




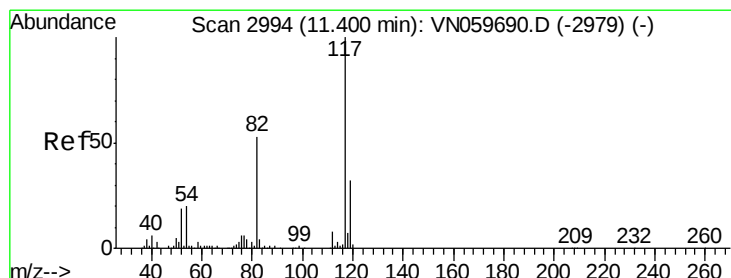
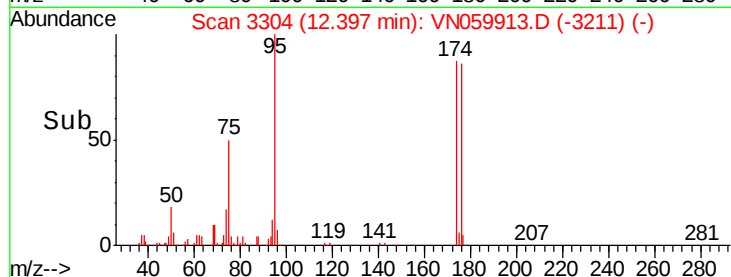
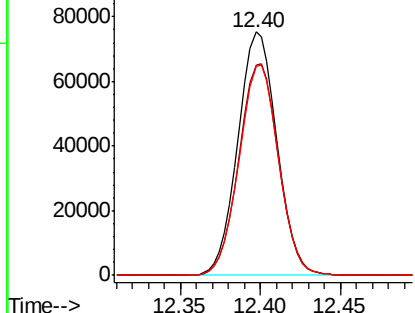
#62
4-Bromofluorobenzene
Concen: 48.207 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 125165
Ion Ratio Lower Upper
95 100
174 88.3 0.0 151.4
176 87.4 0.0 146.0

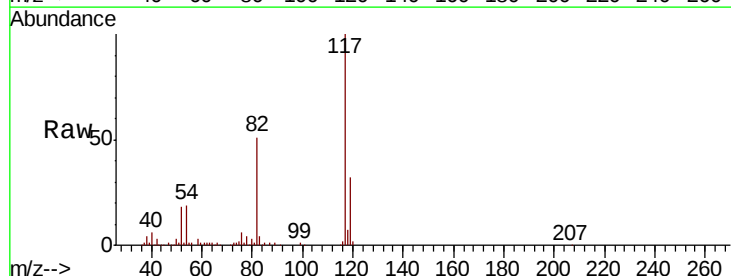


Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)

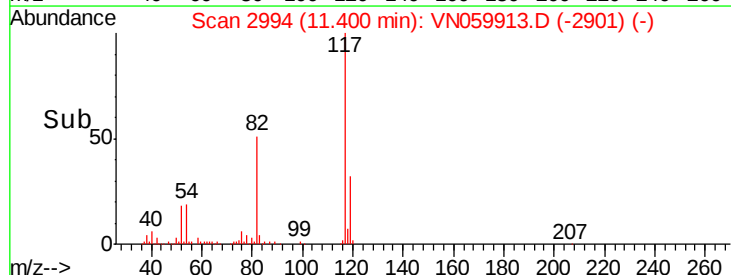
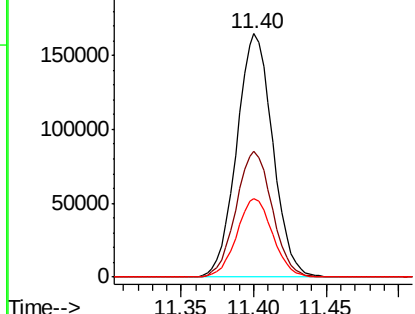


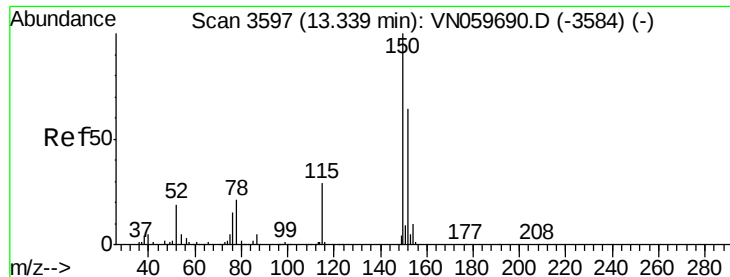
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059913.D
Acq: 29 Jan 2020 15:33

Tgt Ion: 117 Resp: 284785
Ion Ratio Lower Upper
117 100
82 51.5 45.9 68.9
119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

ClientSampleId :

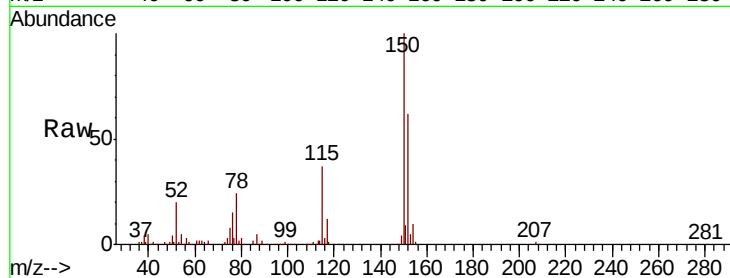
Tot Ion:152 Resp: 118285

Ion Ratio Lower Upper

152 100

115 57.9 30.3 90.9

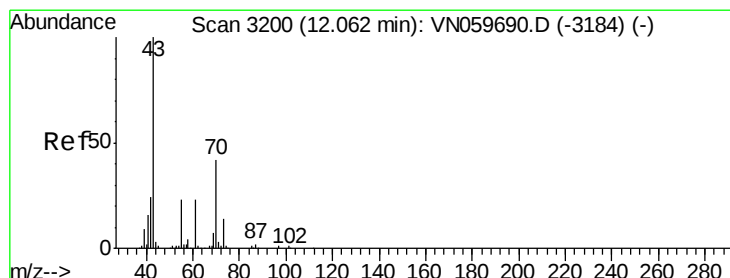
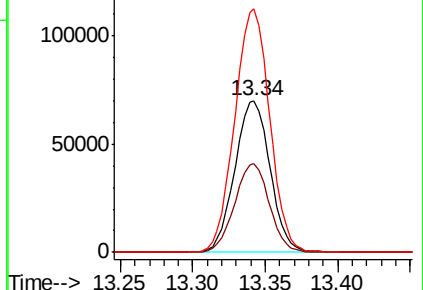
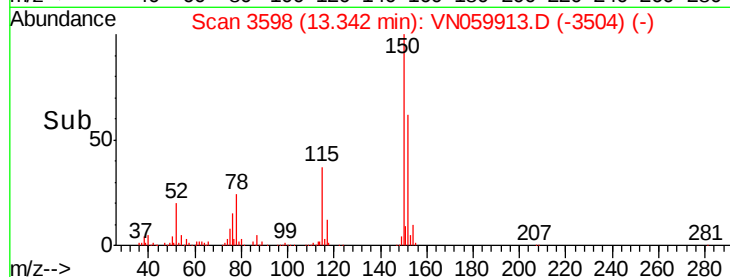
150 159.9 0.0 345.2



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



#74

N-ethyl acetate

Concen: 0.357 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Tgt Ion: 43 Resp: 1202

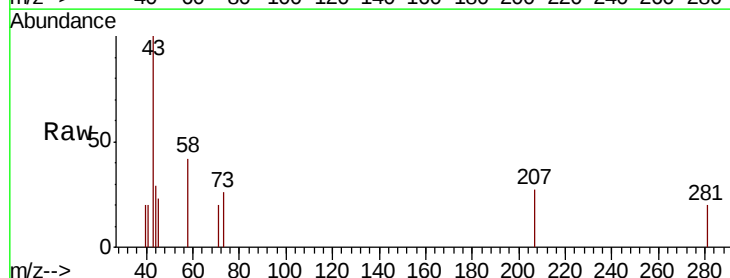
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

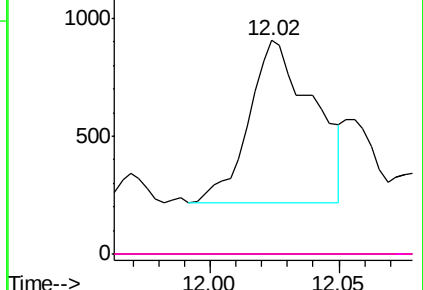
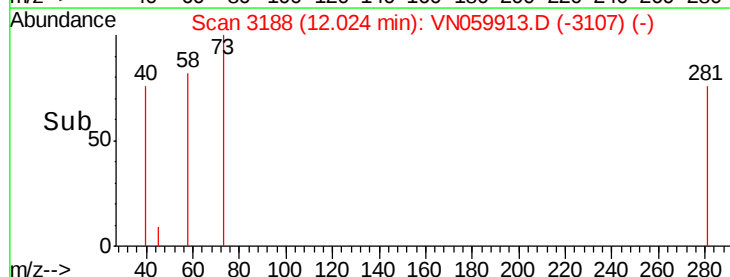


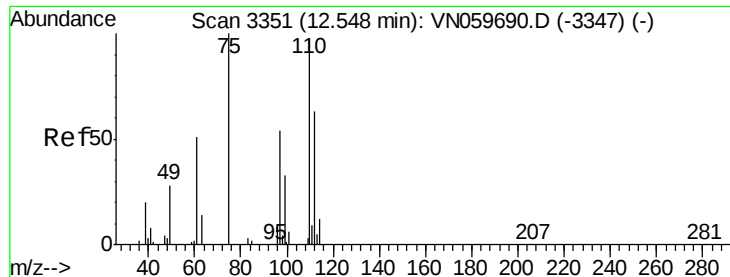
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.059 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

Instrument :

MSVOA_N

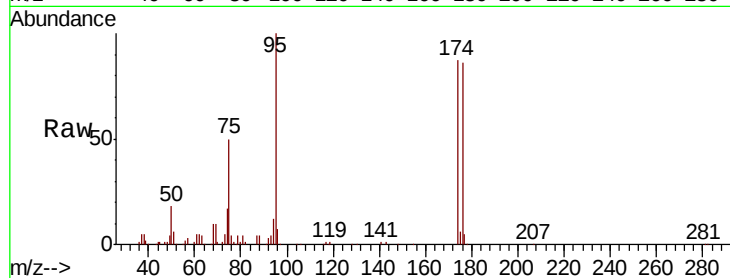
ClientSampled :

Tot Ion: 75 Resp: 63817

Ion Ratio Lower Upper

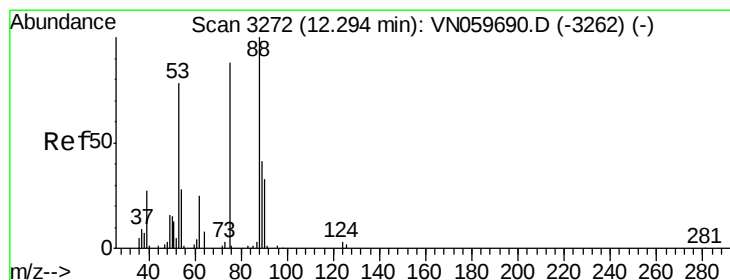
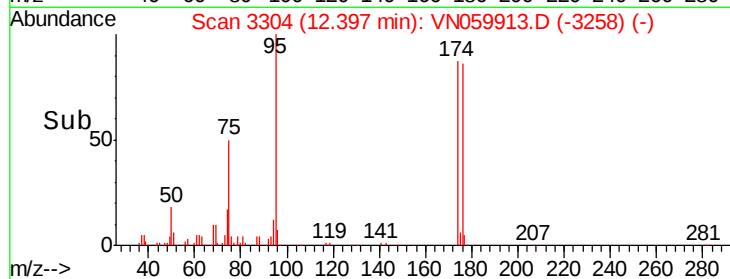
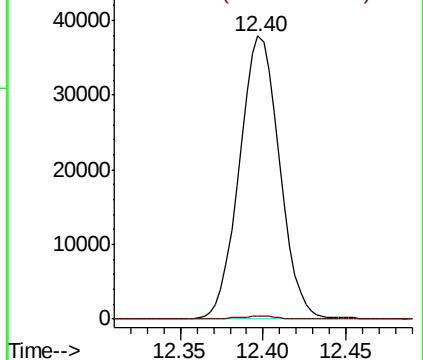
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 68.847 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059913.D

Acq: 29 Jan 2020 15:33

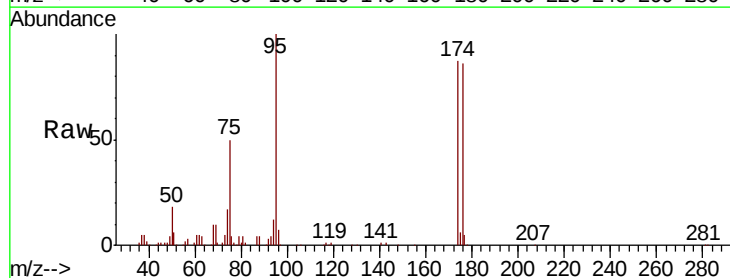
Tgt Ion: 75 Resp: 63817

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

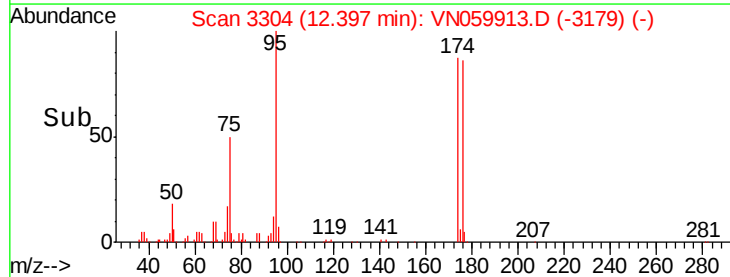
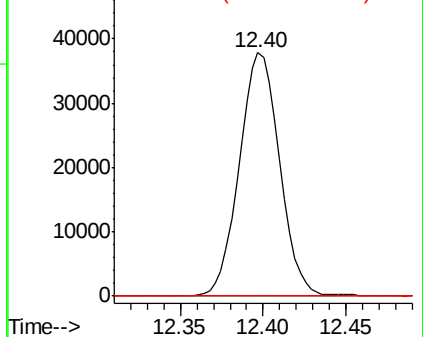
89 0.0 35.4 53.2#

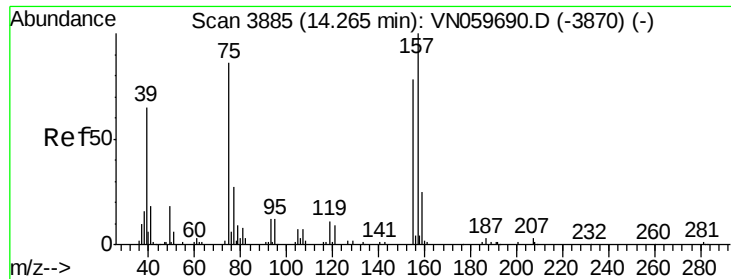


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

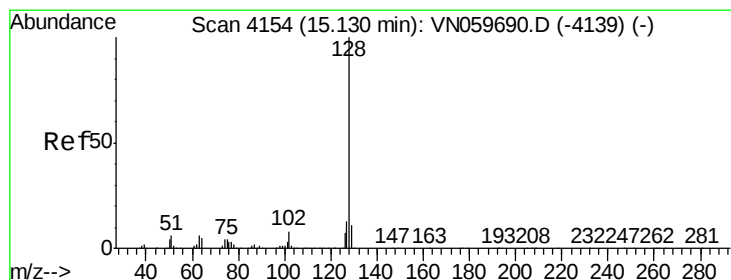
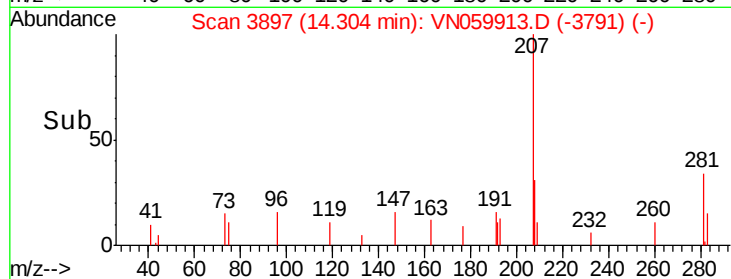
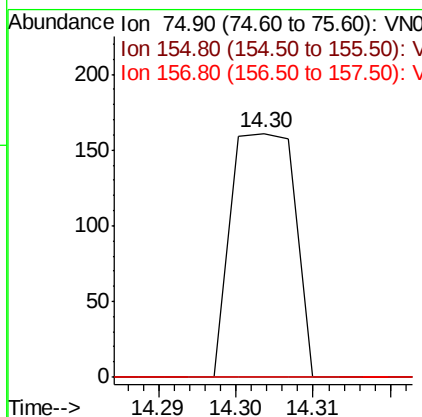
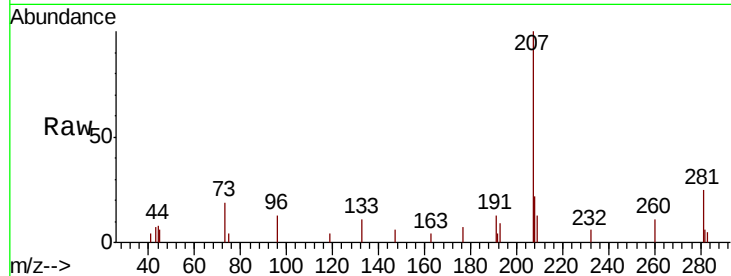




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.30 min Scan# 3897
 Delta R.T. 0.04 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 92
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 2.831 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059913.D
 Acq: 29 Jan 2020 15:33

Tgt Ion: 128 Resp: 18255
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.4 15.6
 129 11.4 8.6 12.8

