

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059798.D
 Acq On : 20 Jan 2020 19:37
 Operator : JC/MD
 Sample : PB126173ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:21:04 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	195248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	293837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	255529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108064	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	102846	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
35) Dibromofluoromethane	7.57	113	88042	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	10.08	98	342657	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	12.40	95	115819	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	

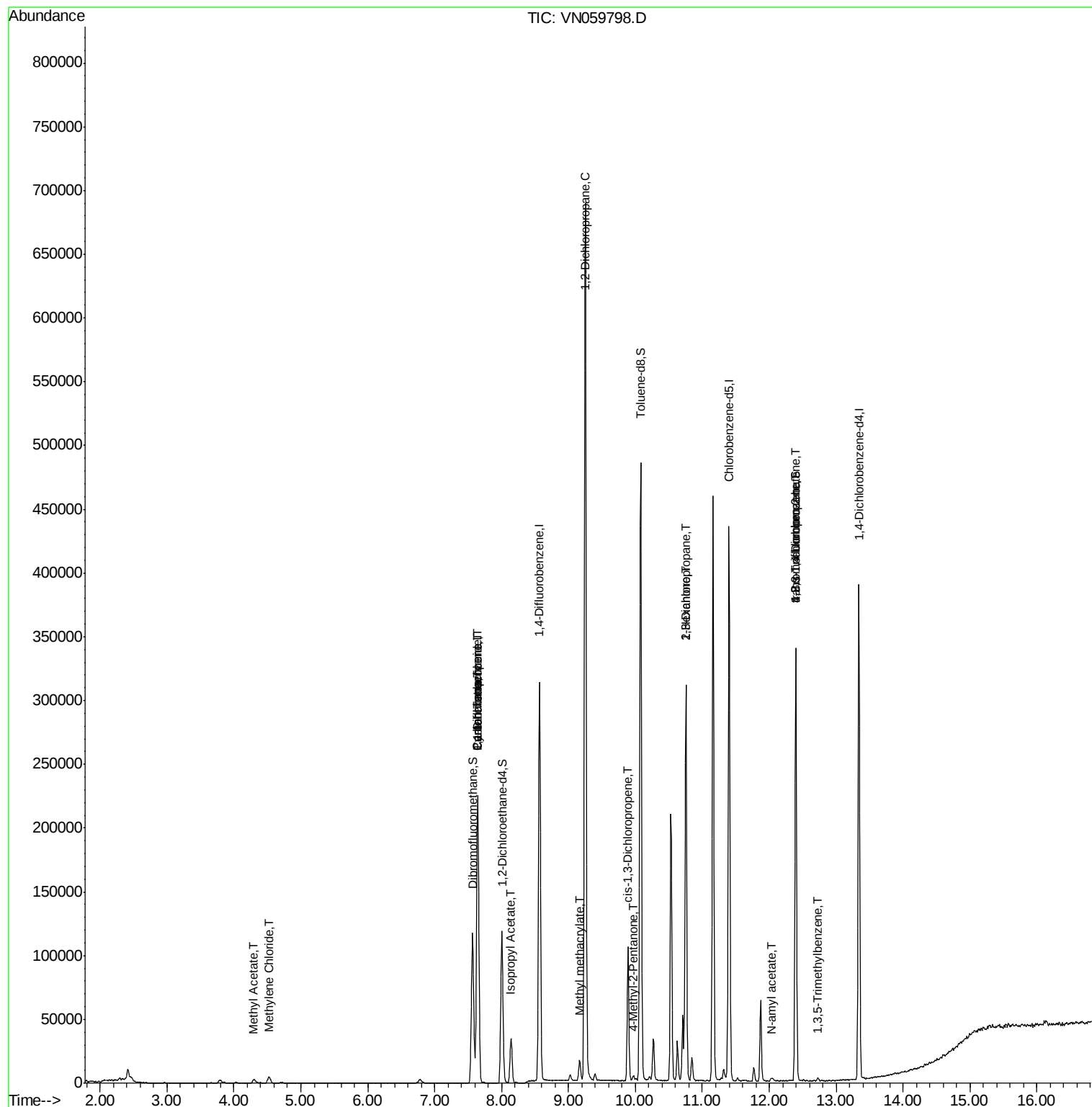
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	4526	Below Cal		100
18) Methyl Acetate	4.30	43	6044	2.386	ug/l #	73
20) Methylene Chloride	4.52	84	4198	0.868	ug/l #	84
31) Cyclohexane	7.64	56	3632	1.132	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12990	5.077	ug/l #	46
38) Carbon Tetrachloride	7.64	117	18004	6.468	ug/l #	16
43) Isopropyl Acetate	8.14	43	40793	9.882	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	770	0.408	ug/l #	44
48) Methyl methacrylate	9.16	41	2439	1.321	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3116	1.306	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	19729	6.256	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3303	1.090	ug/l #	42
59) 2-Hexanone	10.75	43	42965	24.440	ug/l #	55
74) N-amyl acetate	12.02	43	2214	0.720	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	56301	30.958	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1680	0.252	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	56301	66.483	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29	Below Cal	#	6

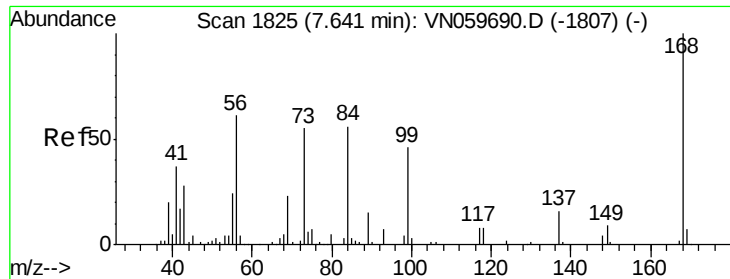
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

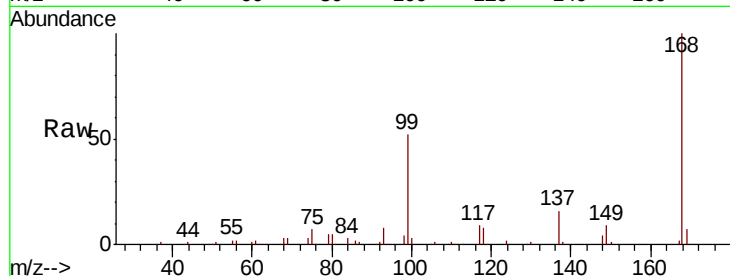
ClientSampled :

Tot Ion:168 Resp: 195248

Ion Ratio Lower Upper

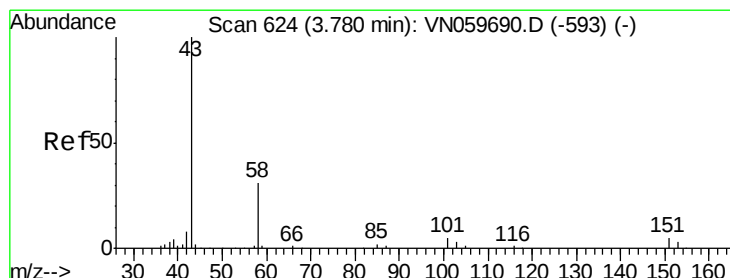
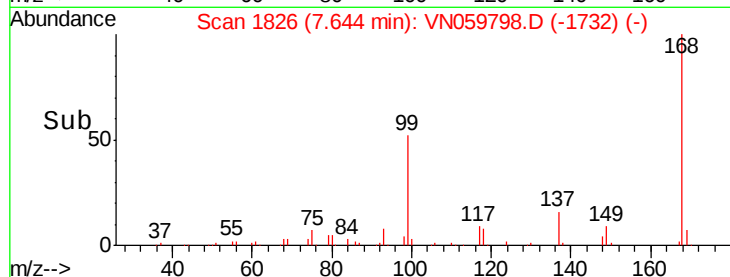
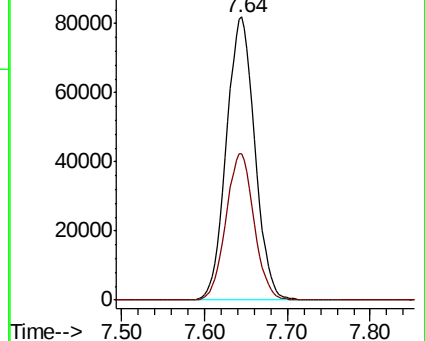
168 100

99 51.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059798.D

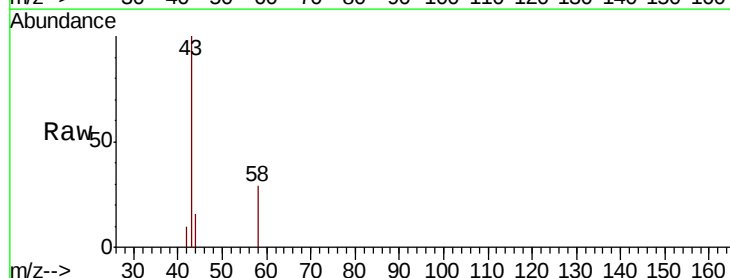
Acq: 20 Jan 2020 19:37

Tgt Ion: 43 Resp: 4526

Ion Ratio Lower Upper

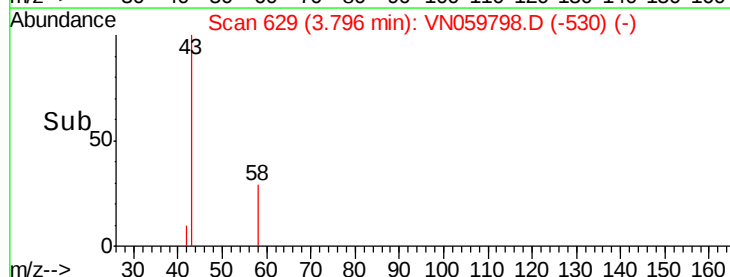
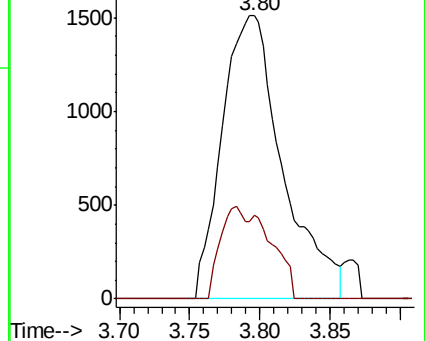
43 100

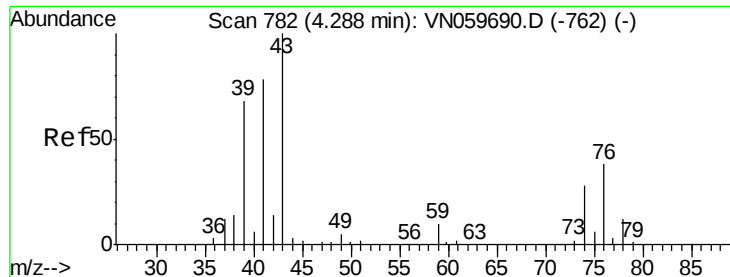
58 29.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-593) (-)

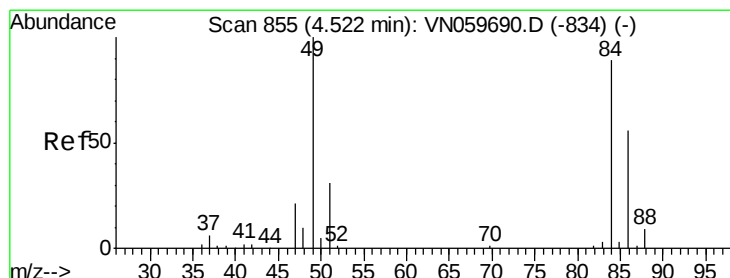
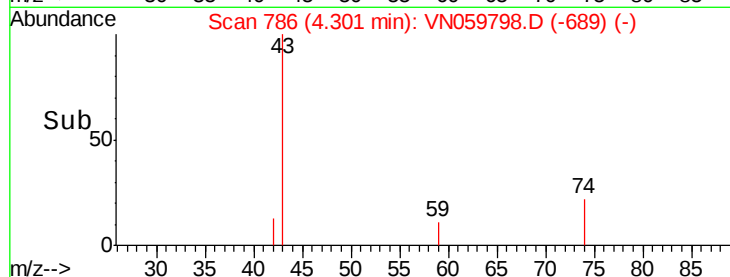
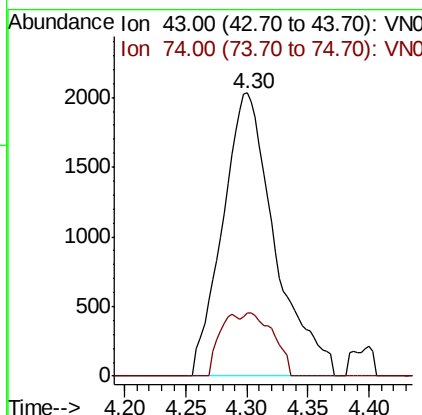
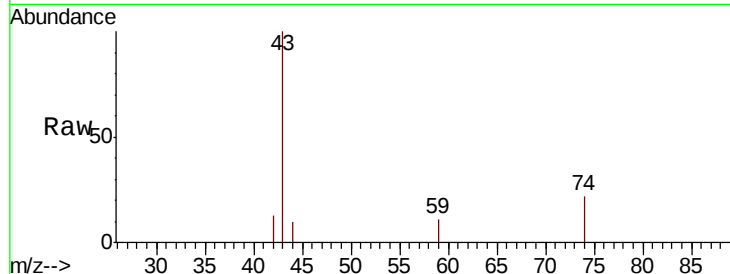




#18
Methyl Acetate
Concen: 2.386 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

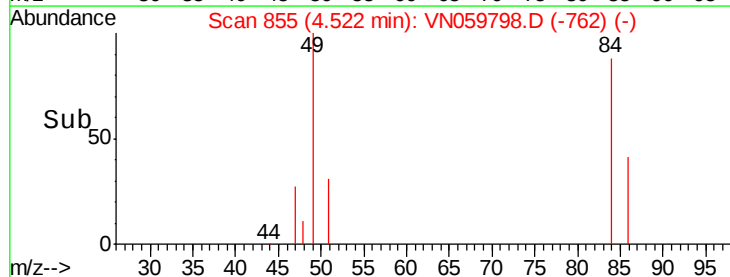
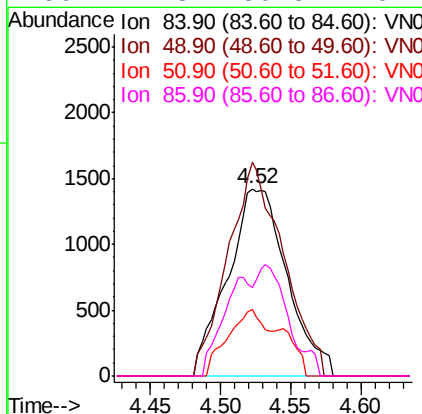
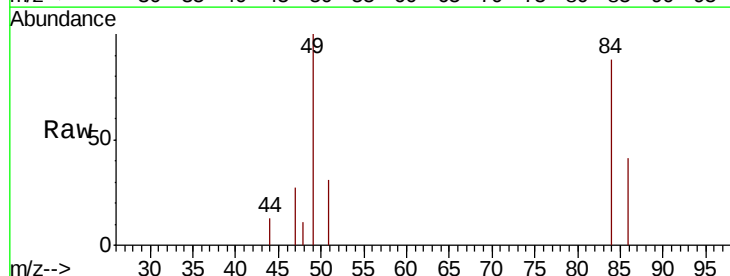
Instrument :
MSVOA_N
ClientSampleId :

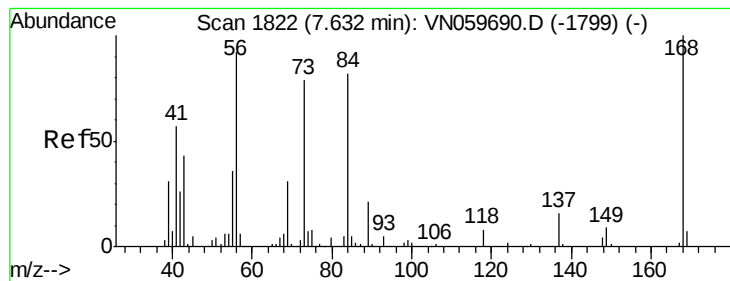
Tot Ion: 43 Resp: 6044
Ion Ratio Lower Upper
43 100
74 9.1 17.5 26.3#



#20
Methylene Chloride
Concen: 0.868 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

Tgt Ion: 84 Resp: 4198
Ion Ratio Lower Upper
84 100
49 114.0 106.6 160.0
51 35.2 31.9 47.9
86 47.3 50.8 76.2#





#31

Cyclohexane

Concen: 1.132 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

ClientSampleId :

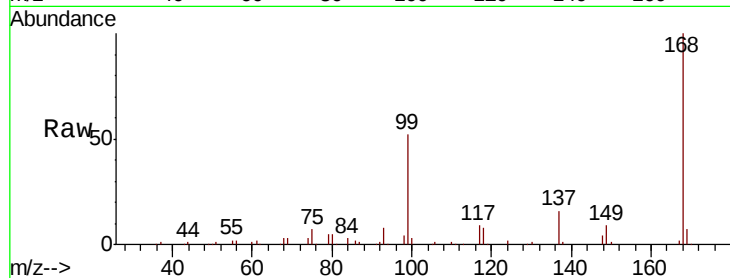
Tot Ion: 56 Resp: 3632

Ion Ratio Lower Upper

56 100

69 164.4 26.5 39.7#

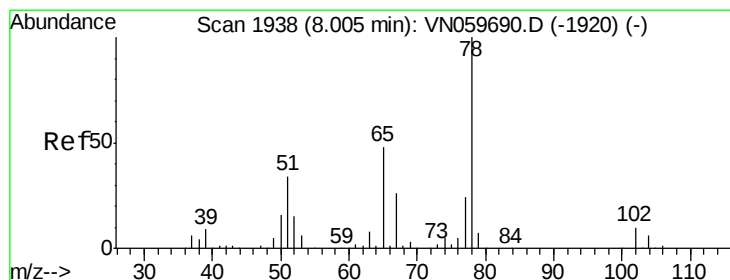
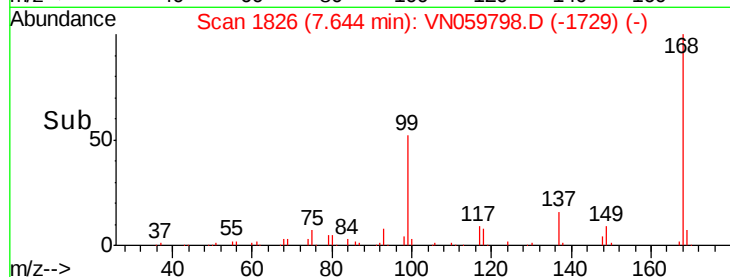
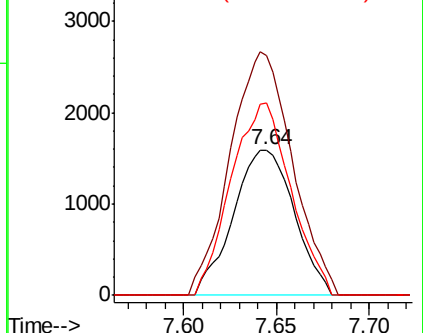
84 132.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059798.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059798.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059798.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.432 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059798.D

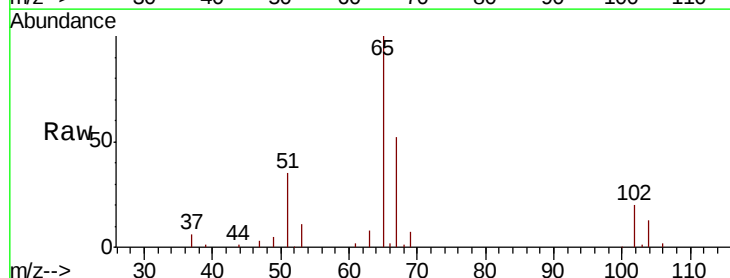
Acq: 20 Jan 2020 19:37

Tgt Ion: 65 Resp: 102846

Ion Ratio Lower Upper

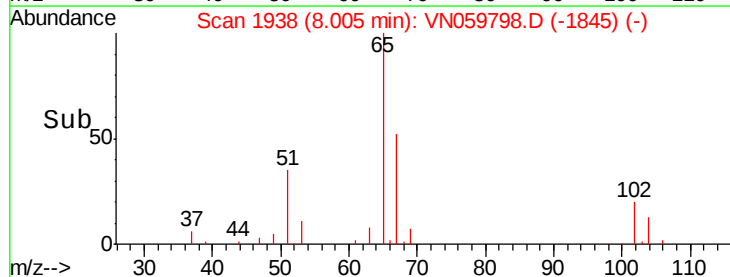
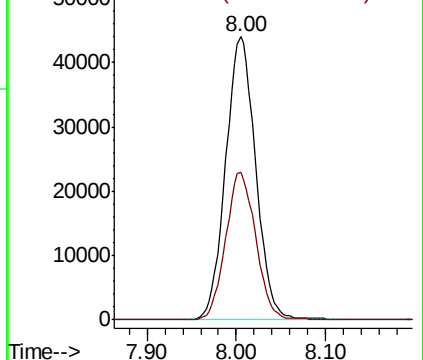
65 100

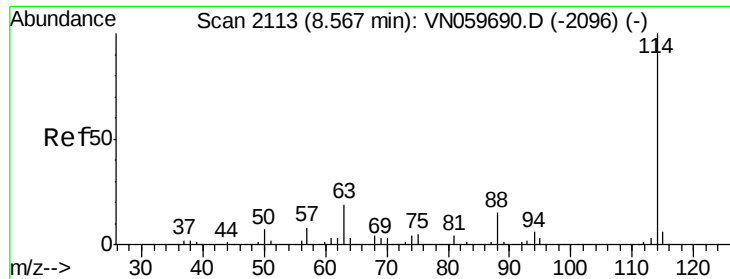
67 51.8 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059798.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059798.D (-1845) (-)

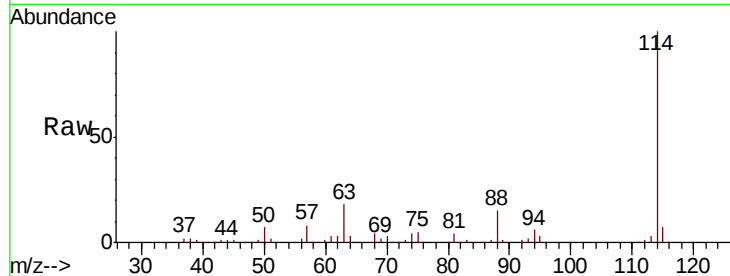




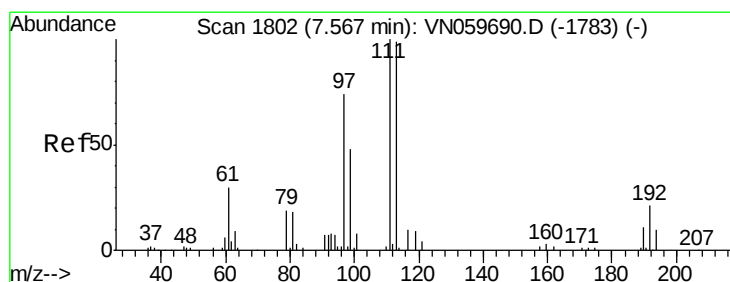
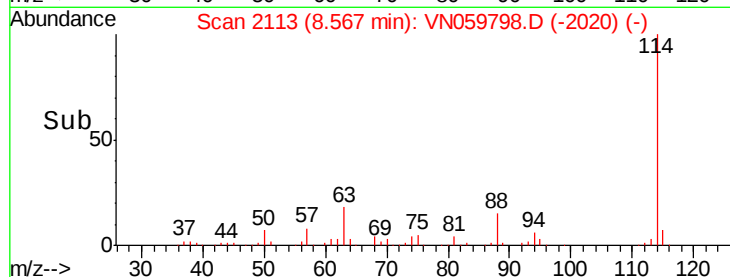
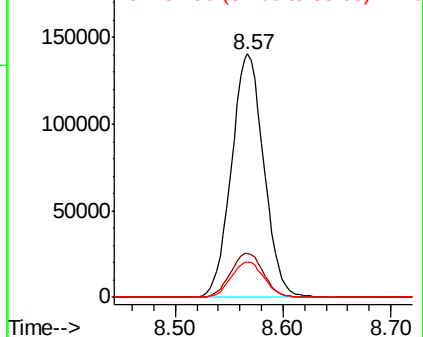
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 293837
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 43.6
 88 14.6 0.0 31.4

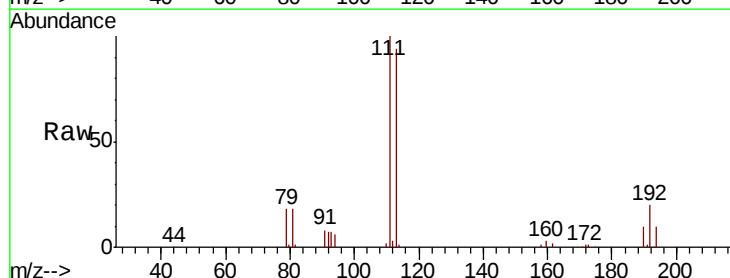


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

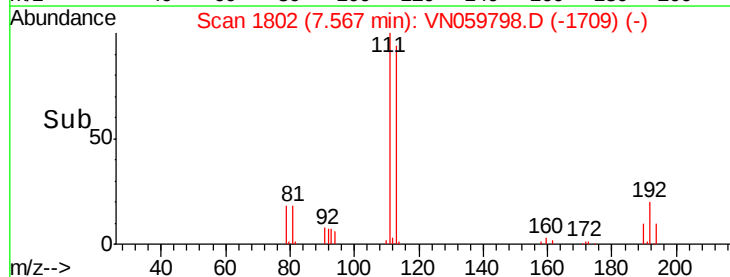
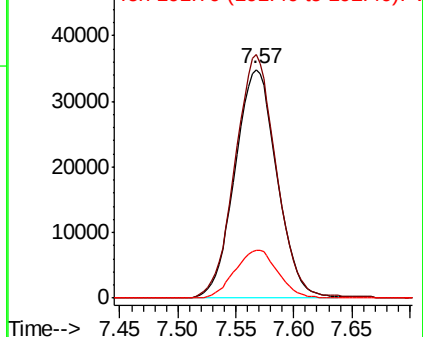


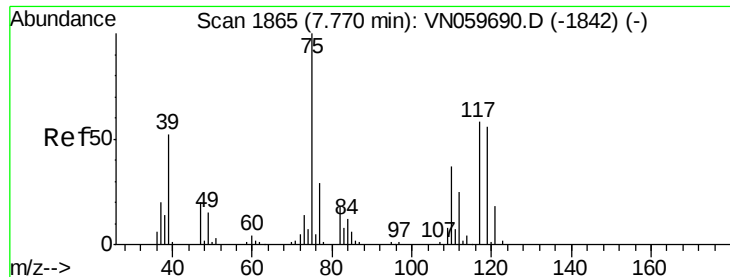
#35
 Dibromofluoromethane
 Concen: 50.244 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

Tgt Ion:113 Resp: 88042
 Ion Ratio Lower Upper
 113 100
 111 104.6 83.5 125.3
 192 21.4 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

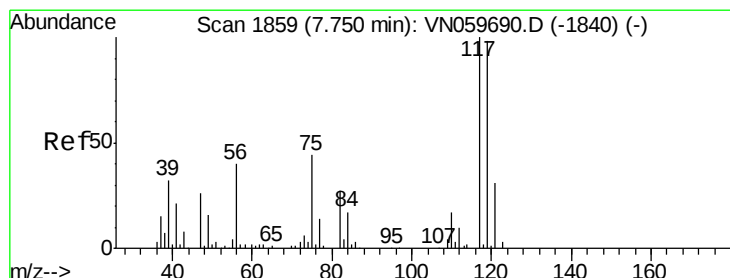
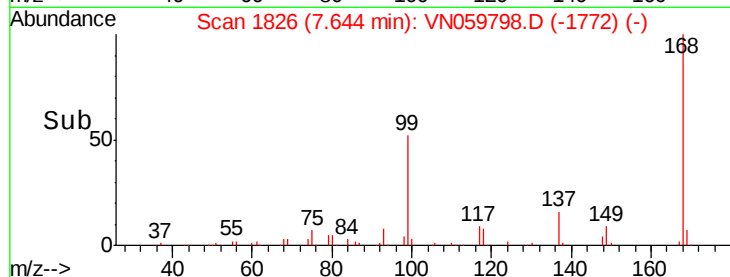
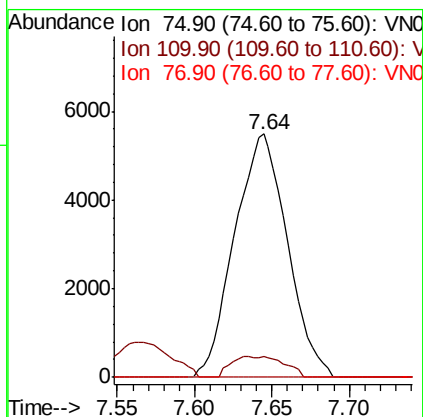
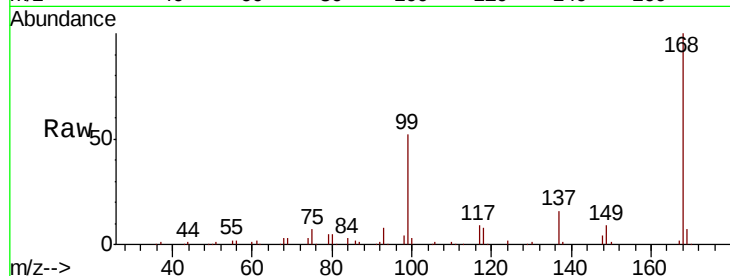




#36
 1,1-Dichloropropene
 Concen: 5.077 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

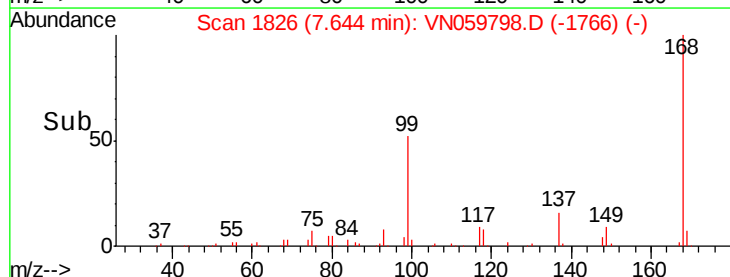
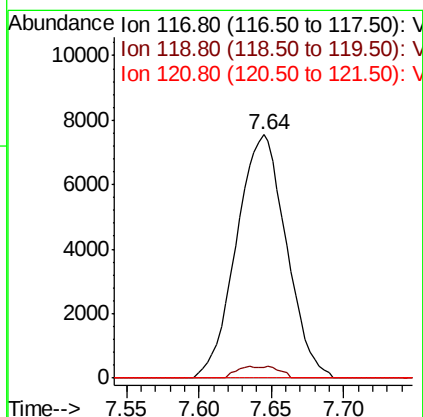
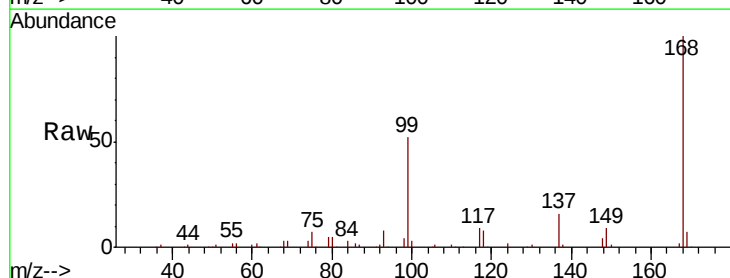
Instrument :
 MSVOA_N
 ClientSampleId :

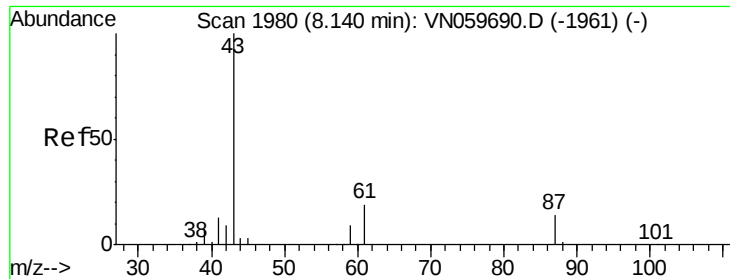
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.8	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.468 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 9.882 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

ClientSampleId :

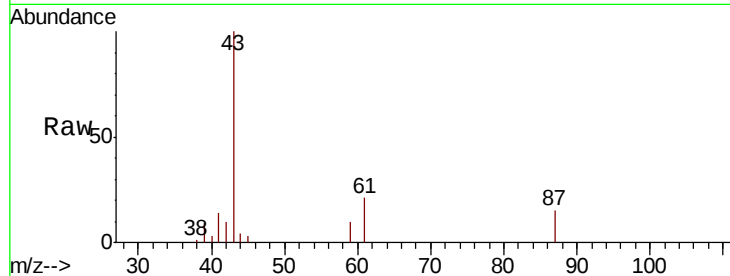
Tot Ion: 43 Resp: 40793

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

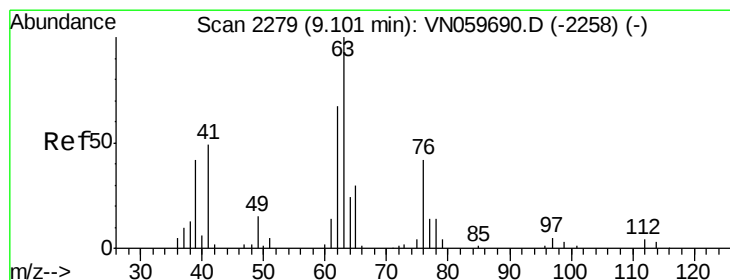
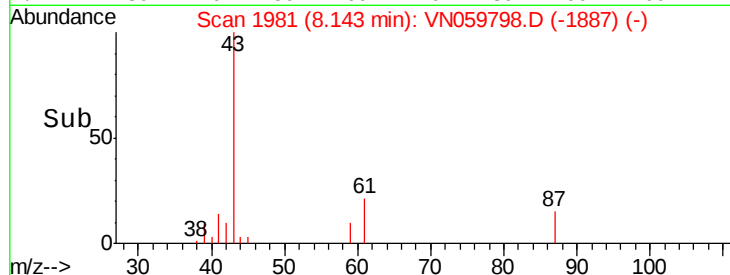
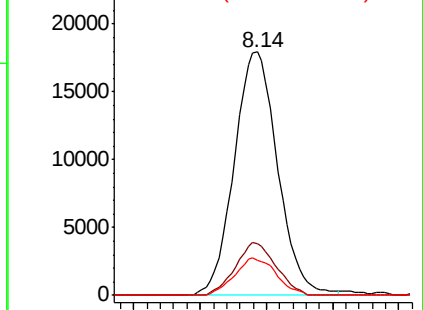
87 14.7 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059798.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059798.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059798.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.408 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.16 min

Lab File: VN059798.D

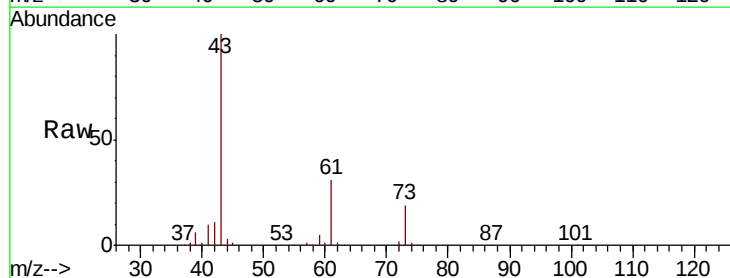
Acq: 20 Jan 2020 19:37

Tgt Ion: 63 Resp: 770

Ion Ratio Lower Upper

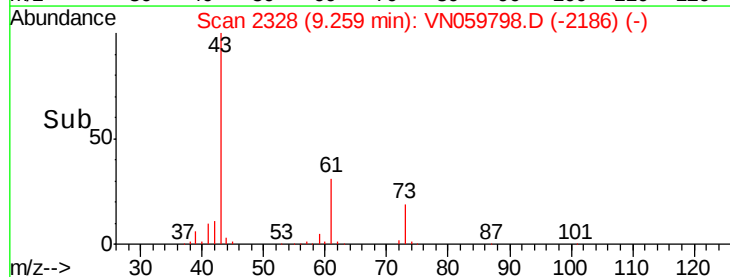
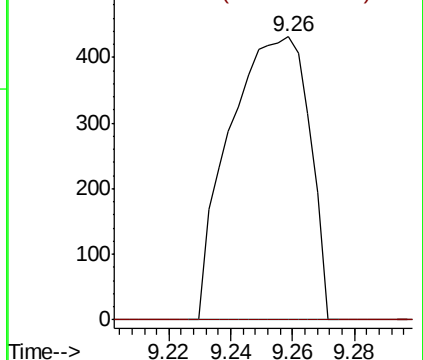
63 100

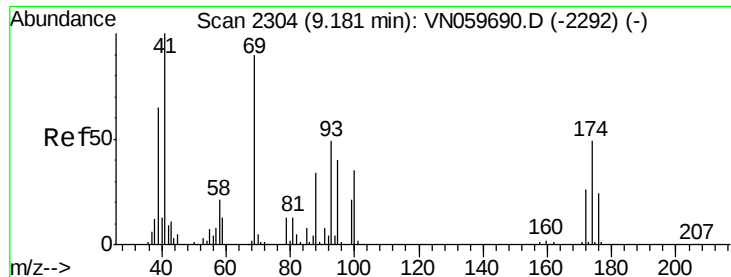
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059798.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059798.D (-2186) (-)

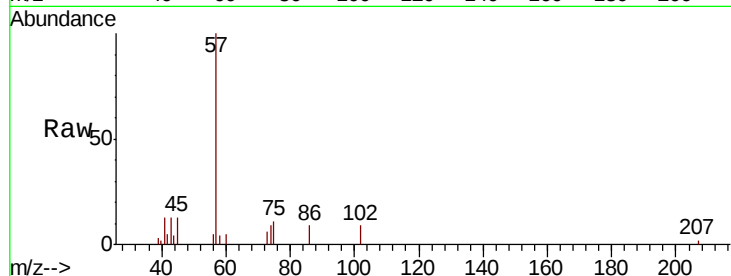




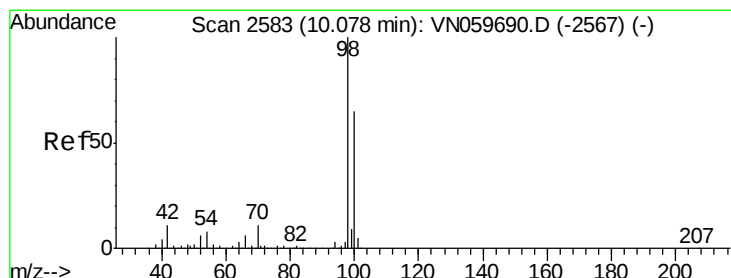
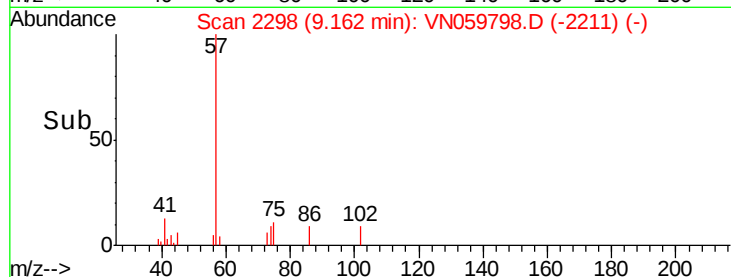
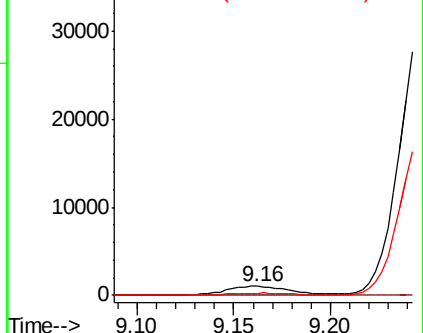
#48
Methvl methacrylate
Concen: 1.321 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2439
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

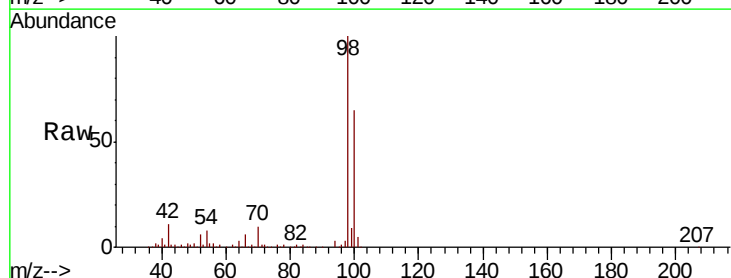


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

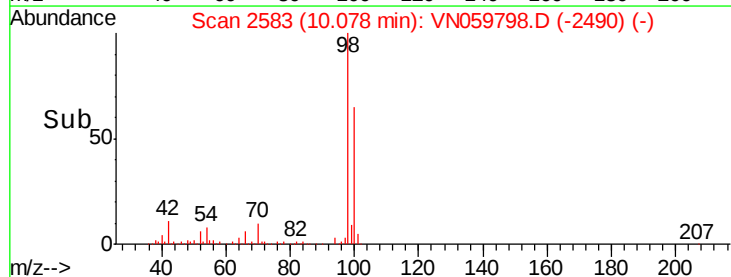
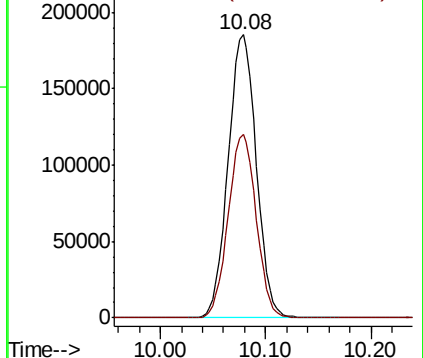


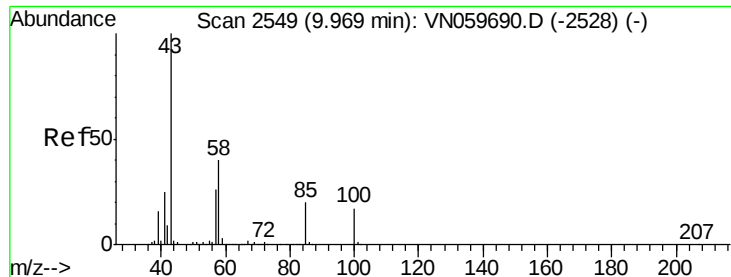
#50
Toluene-d8
Concen: 50.471 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

Tgt Ion: 98 Resp: 342657
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 1.306 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

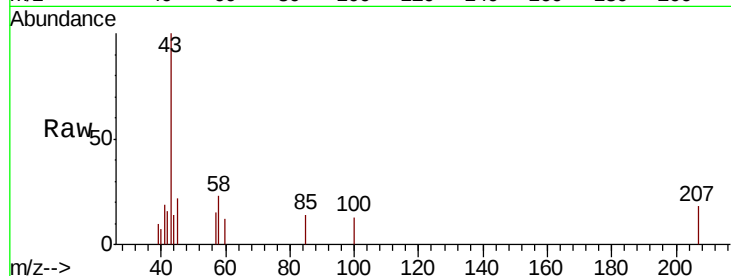
ClientSampled :

Tot Ion: 43 Resp: 3116

Ion Ratio Lower Upper

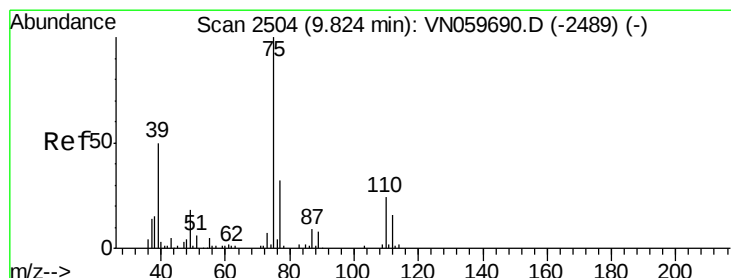
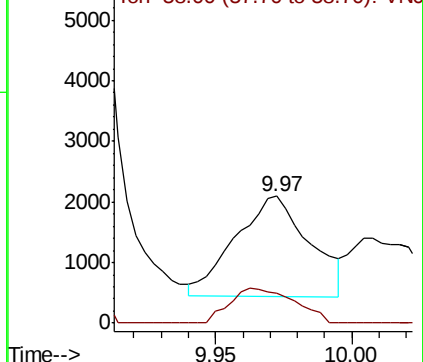
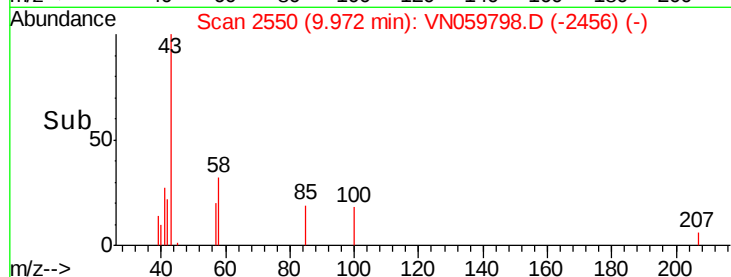
43 100

58 30.6 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059798.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN059798.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.256 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

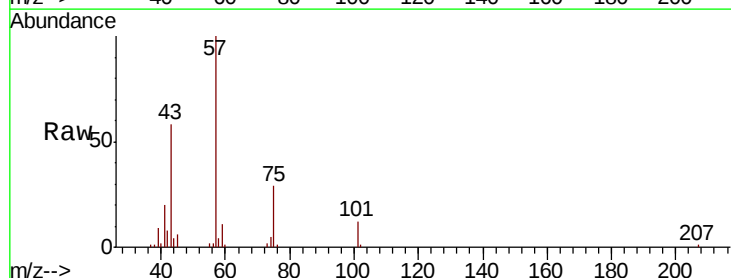
Tgt Ion: 75 Resp: 19729

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

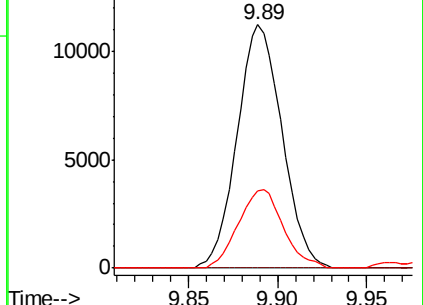
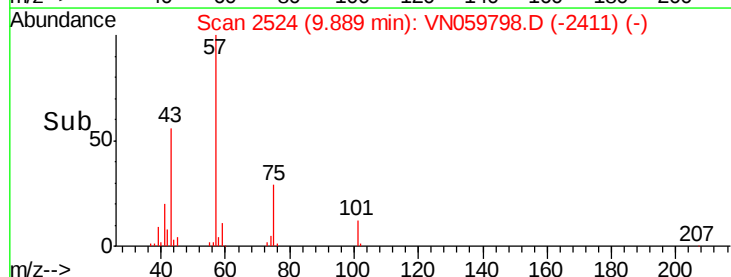
39 31.5 46.1 69.1#

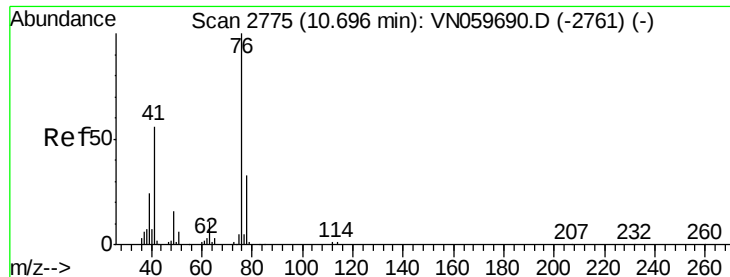


Abundance Ion 74.90 (74.60 to 75.60): VN059798.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN059798.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN059798.D (-2411) (-)

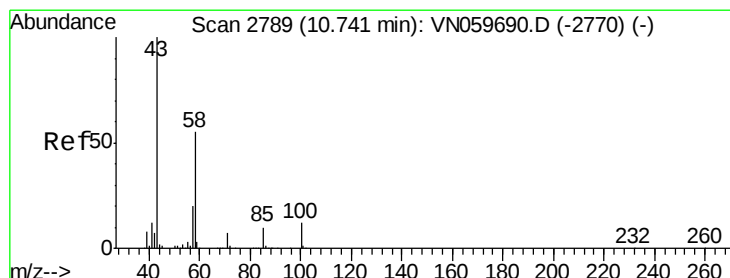
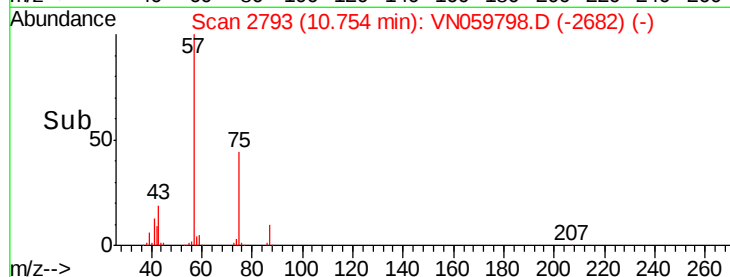
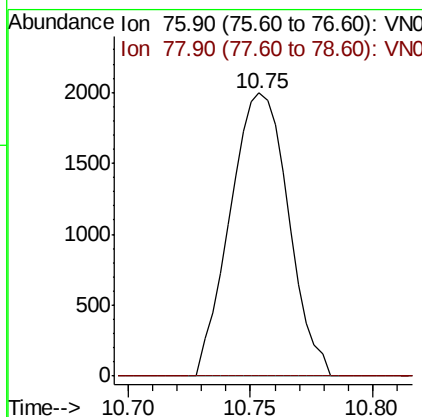
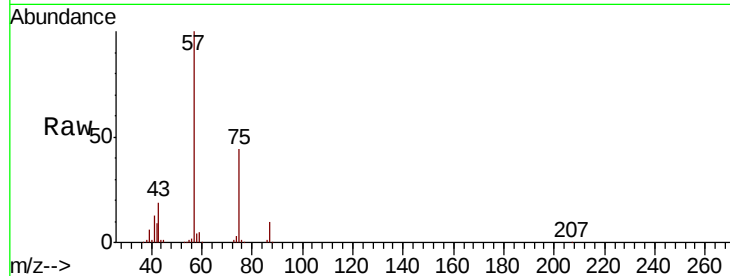




#57
 1,3-Dichloropropane
 Concen: 1.090 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

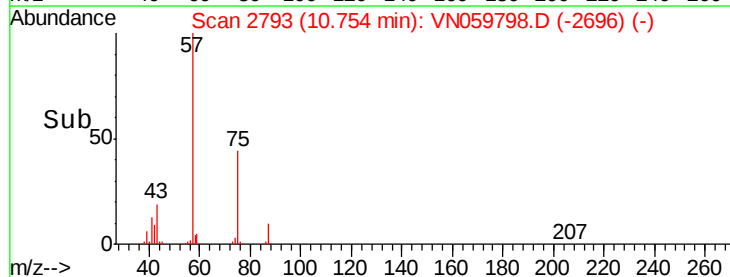
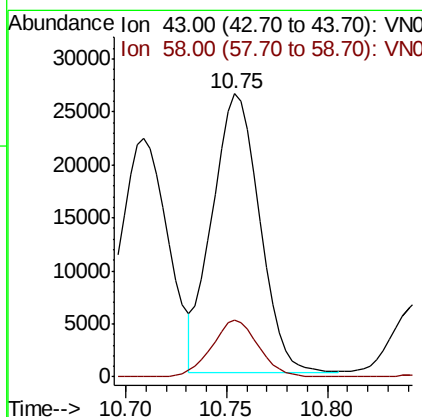
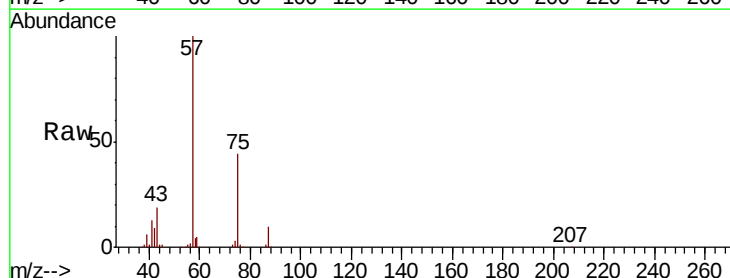
Instrument :
 MSVOA_N
 ClientSampled :

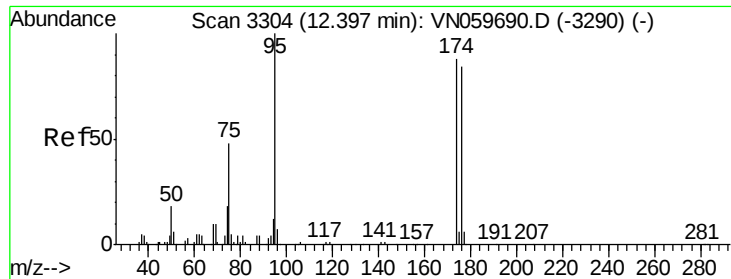
Tot Ion: 76 Resp: 3303
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.440 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059798.D
 Acq: 20 Jan 2020 19:37

Tgt Ion: 43 Resp: 42965
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.8 77.3#

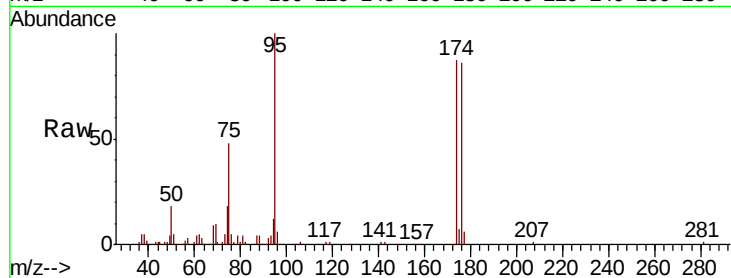




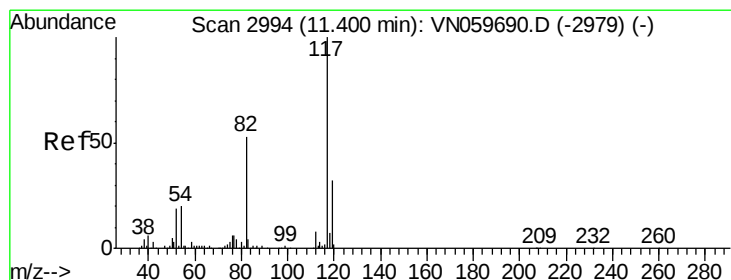
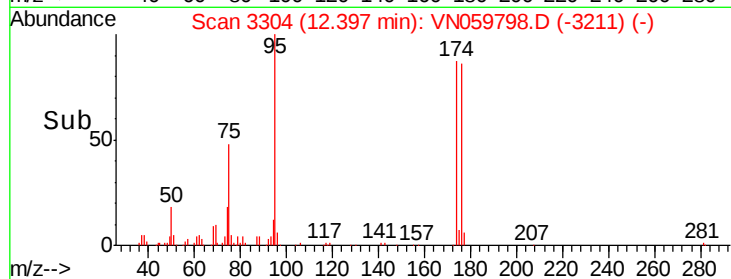
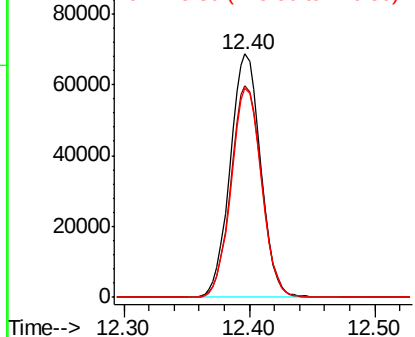
#62
4-Bromofluorobenzene
Concen: 47.321 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 115819
Ion Ratio Lower Upper
95 100
174 87.6 0.0 151.4
176 85.3 0.0 146.0

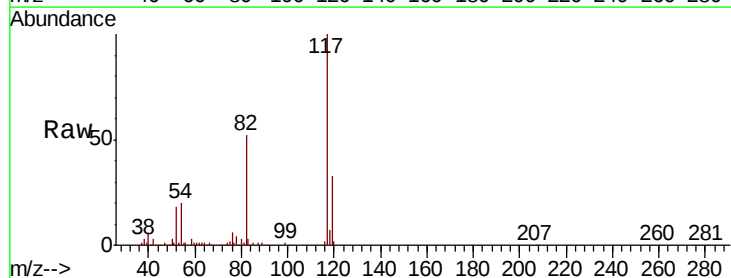


Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)

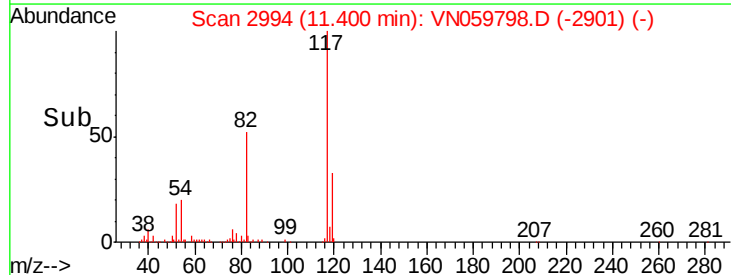
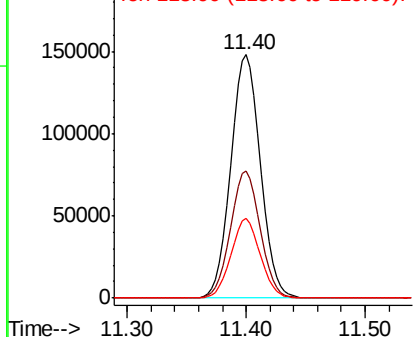


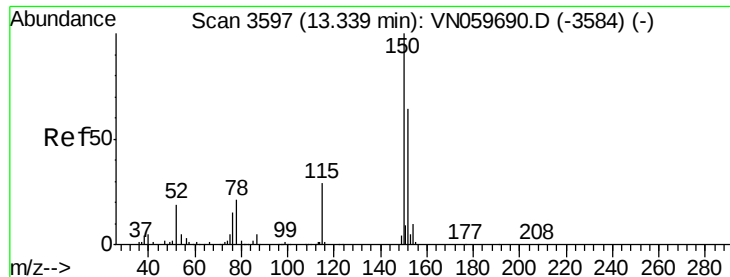
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059798.D
Acq: 20 Jan 2020 19:37

Tgt Ion: 117 Resp: 255529
Ion Ratio Lower Upper
117 100
82 52.1 45.9 68.9
119 32.8 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# 3597

Delta R.T. 0.00 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

ClientSampleId :

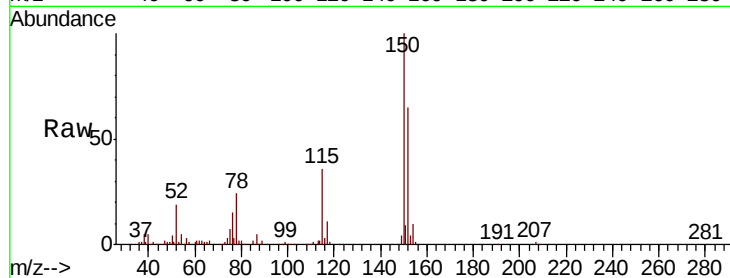
Tot Ion:152 Resp: 108064

Ion Ratio Lower Upper

152 100

115 57.2 30.3 90.9

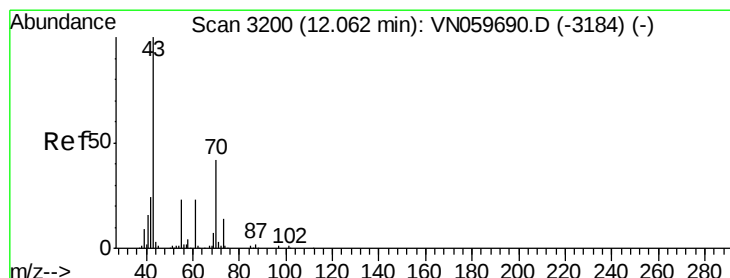
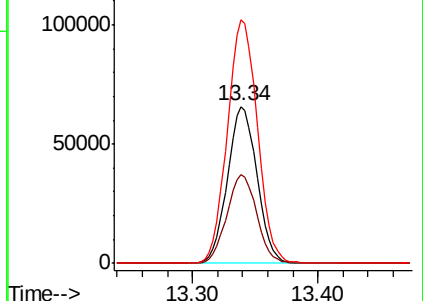
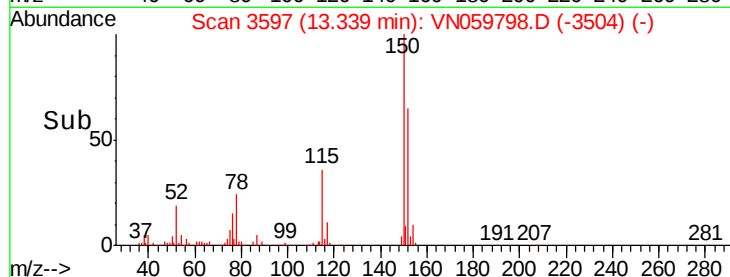
150 157.9 0.0 345.2



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: 0.720 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Tgt Ion: 43 Resp: 2214

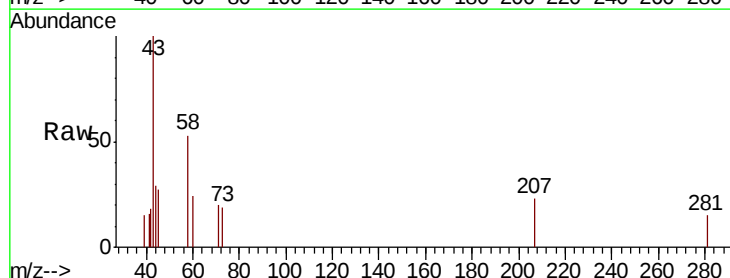
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

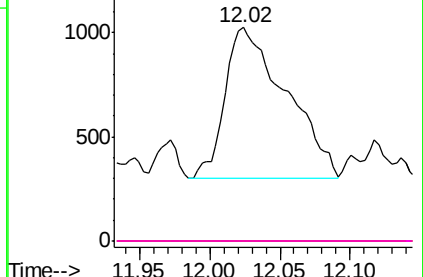
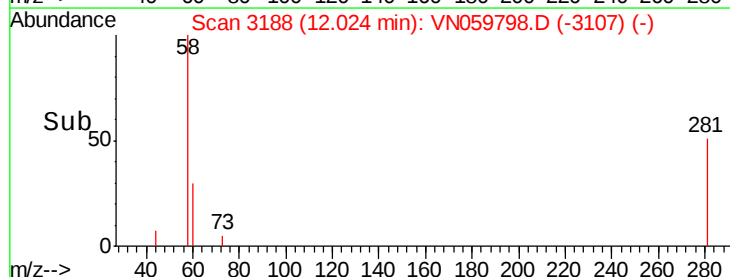


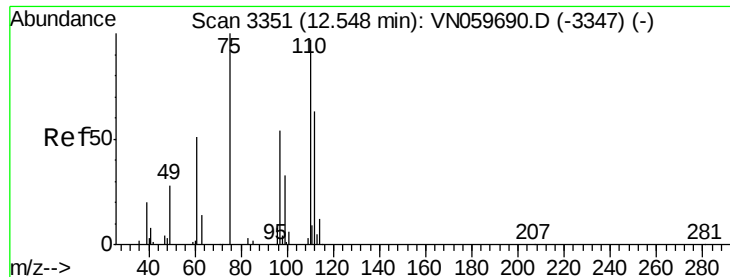
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.958 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

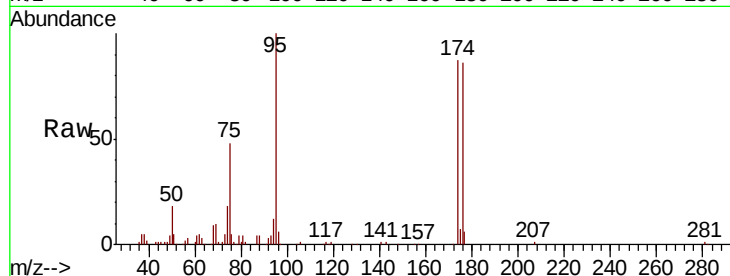
ClientSampled :

Tot Ion: 75 Resp: 56301

Ion Ratio Lower Upper

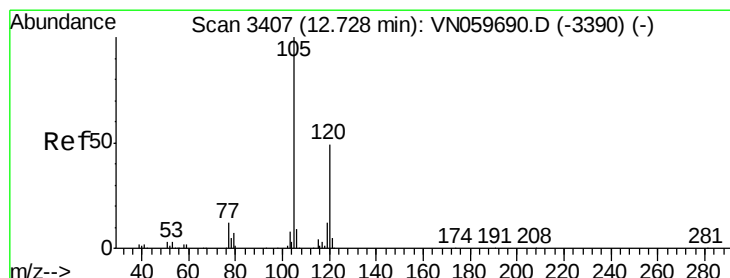
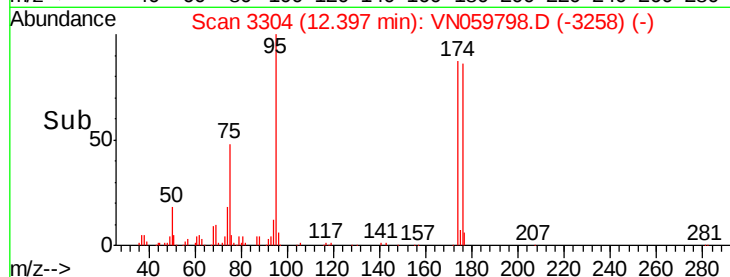
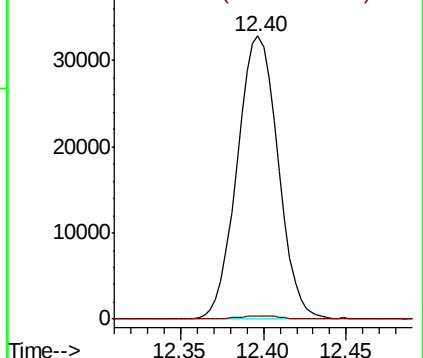
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059690.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.252 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059798.D

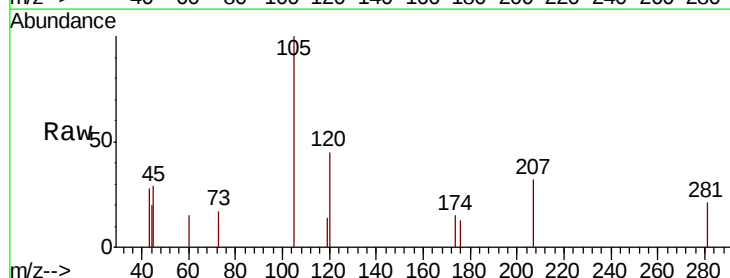
Acq: 20 Jan 2020 19:37

Tgt Ion: 105 Resp: 1680

Ion Ratio Lower Upper

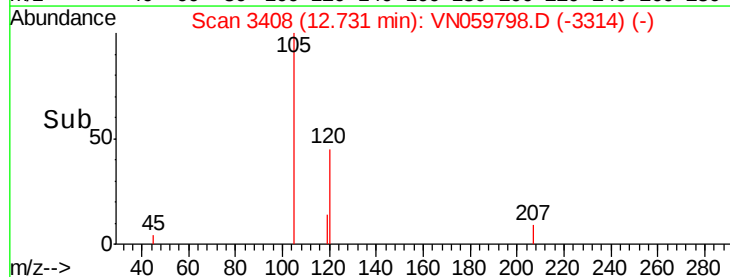
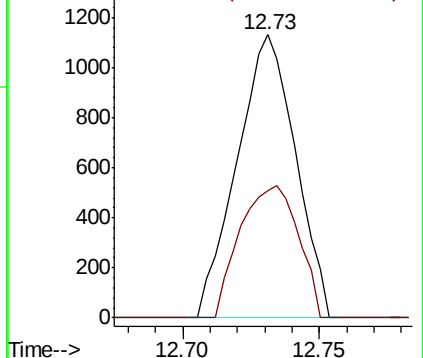
105 100

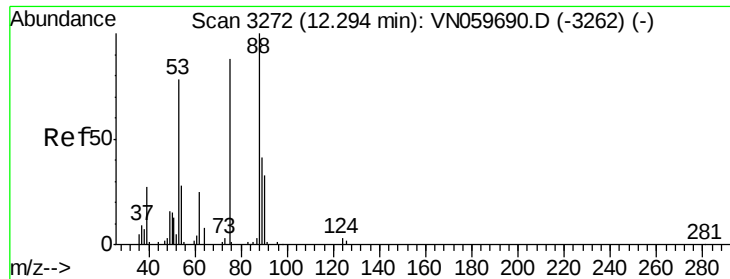
120 46.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059690.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059690.D (-3390) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.483 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

Instrument :

MSVOA_N

ClientSampled :

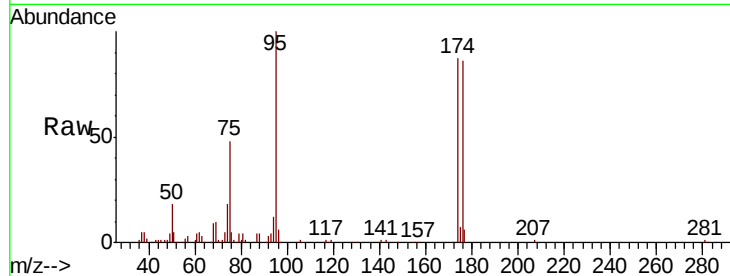
Tot Ion: 75 Resp: 56301

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

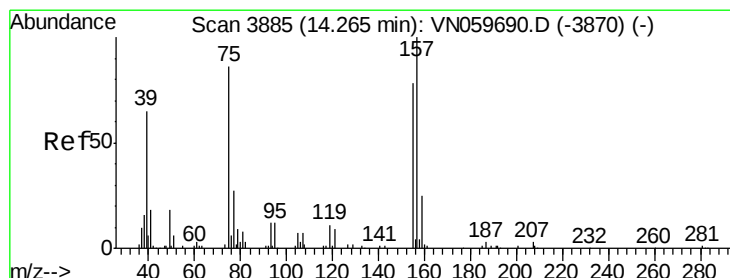
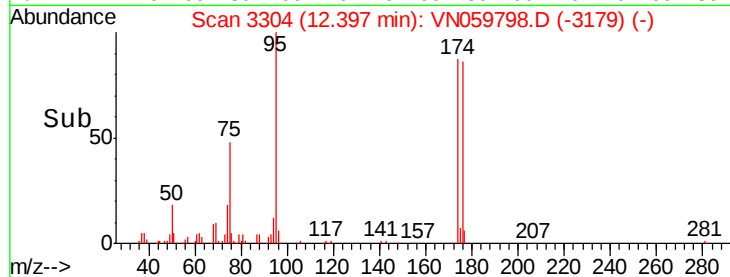
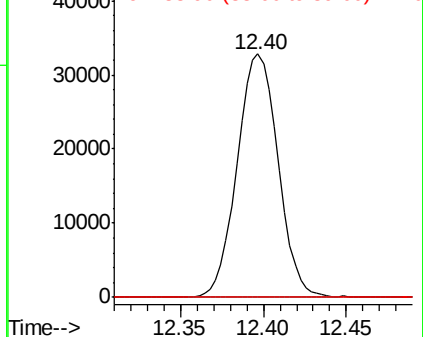
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN059798.D

Acq: 20 Jan 2020 19:37

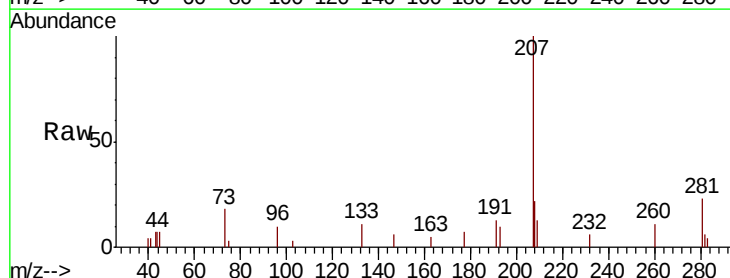
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

