

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080619\
 Data File : VN057104.D
 Acq On : 6 Aug 2019 15:38
 Operator : JC/SP
 Sample : VN0806WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBL02

Quant Time: Aug 07 02:15:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	72973	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.58	114	384240	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	282175	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	143722	30.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.30%
60) 4-Bromofluorobenzene	12.40	95	83471	19.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	65.80%
63) Toluene-d8	10.09	98	432988	32.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.27%

Target Compounds

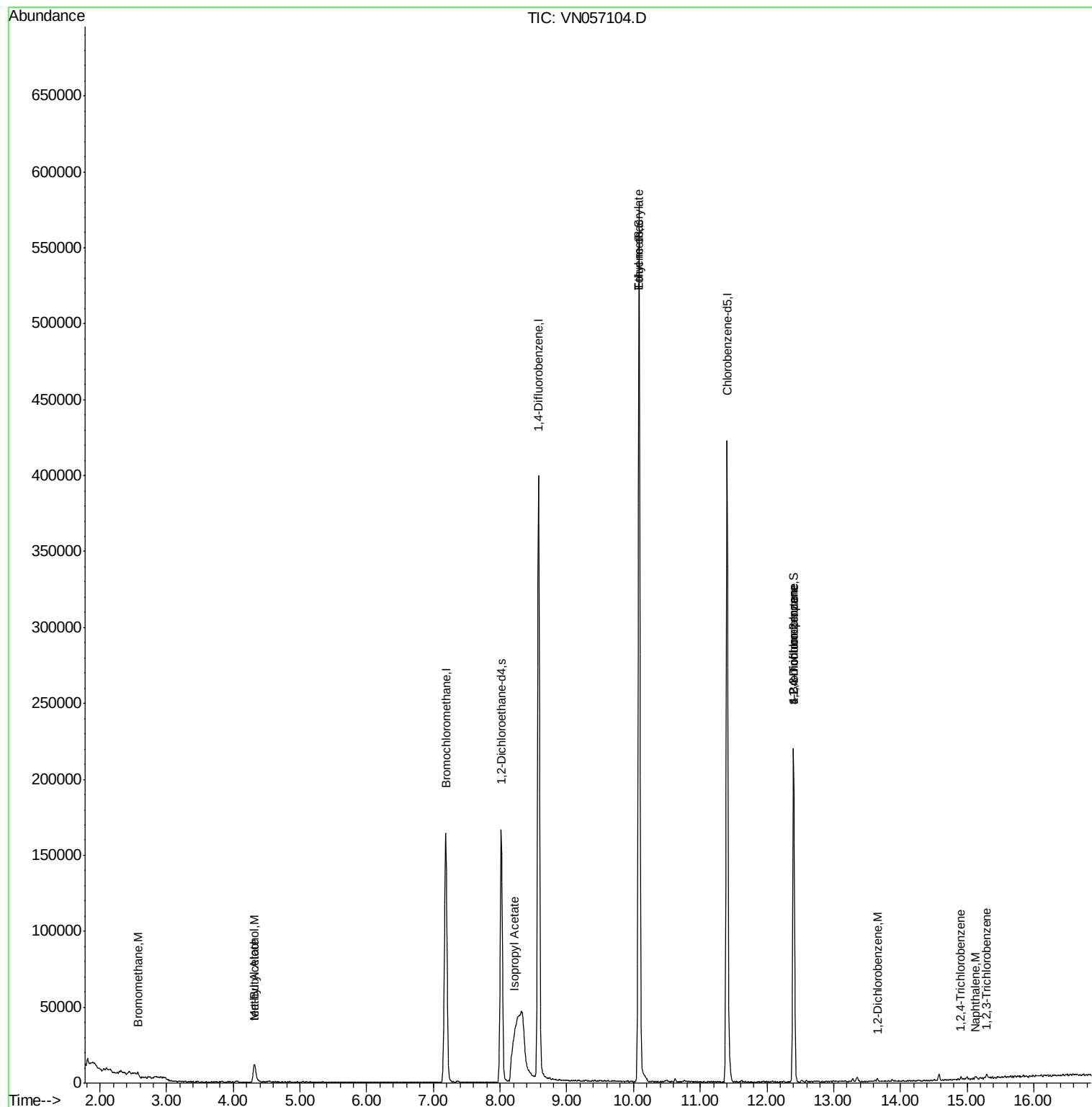
					Qvalue
5) Bromomethane	2.56	94	1033	0.328 ug/l	82
12) Methyl Acetate	4.31	43	11624	2.438 ug/l	96
23) tert-Butyl Alcohol	4.32	59	1500	2.445 ug/l #	100
44) Isopropyl Acetate	8.20	43	21582	2.883 ug/l #	48
51) Ethyl methacrylate	10.09	69	1514	0.259 ug/l	77
72) 1,2,3-Trichloropropane	12.40	75	37695	9.798 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	37695	31.206 ug/l #	11
87) 1,2-Dichlorobenzene	13.65	146	1398	0.222 ug/l #	82
89) 1,2,4-Trichlorobenzene	14.91	180	821	8.195 ug/l #	74
91) Naphthalene	15.12	128	1098	7.790 ug/l #	81
92) 1,2,3-Trichlorobenzene	15.30	180	1104	0.331 ug/l	81

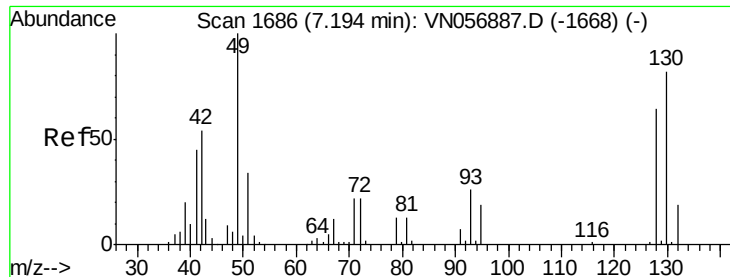
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN080619\
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VN0806WBL02

Quant Time: Aug 07 02:15:56 2019
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 24 04:19:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBL02

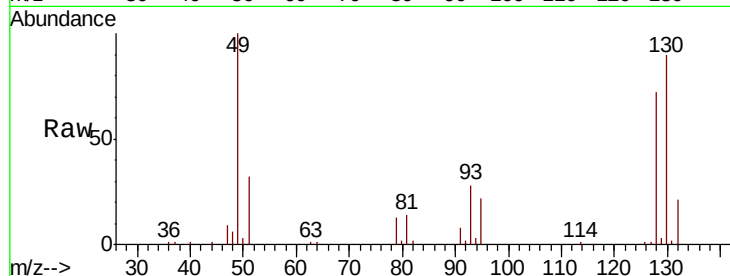
Tgt Ion:128 Resp: 72973

Ion Ratio Lower Upper

128 100

49 138.9 0.0 385.8

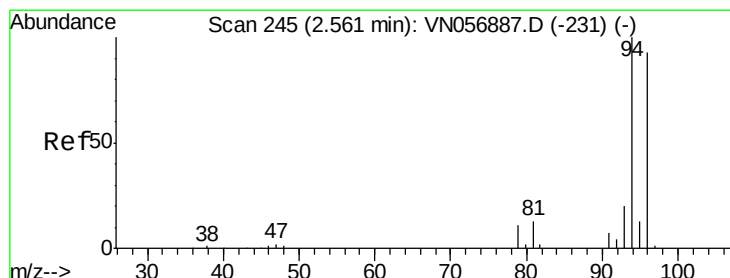
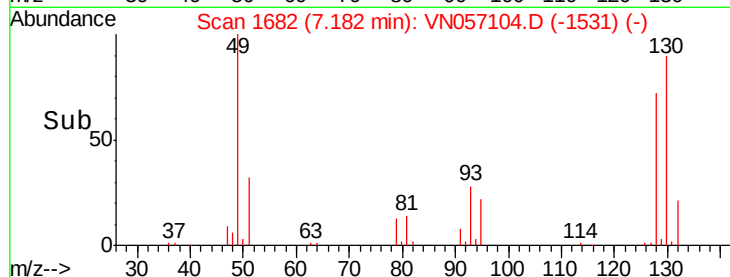
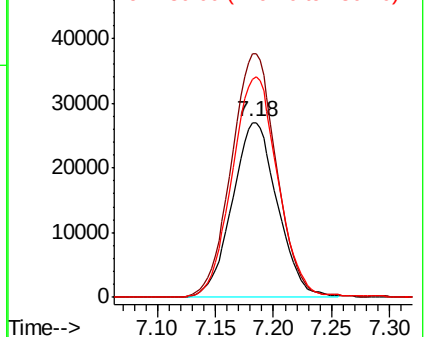
130 127.4 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.328 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN057104.D

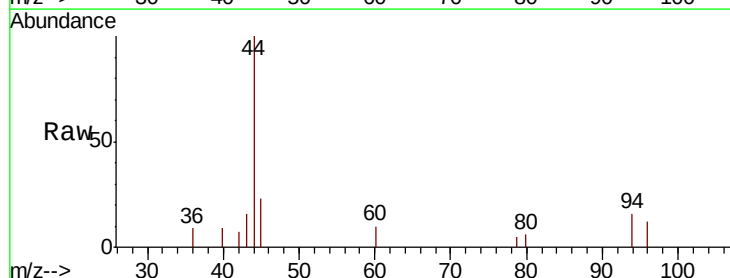
Acq: 6 Aug 2019 15:38

Tgt Ion: 94 Resp: 1033

Ion Ratio Lower Upper

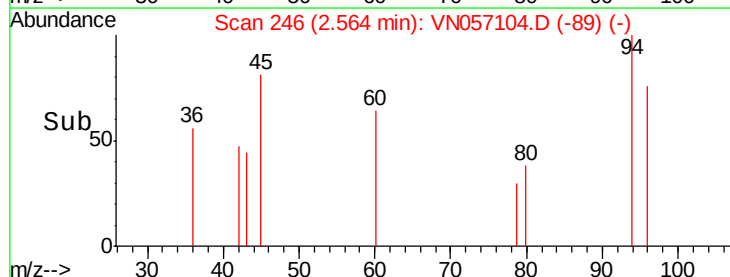
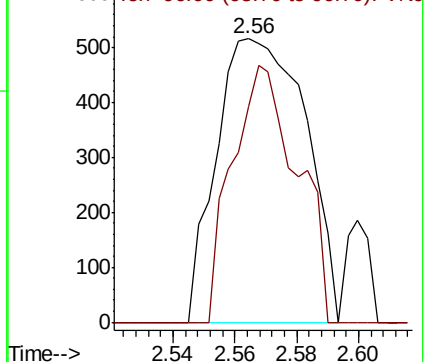
94 100

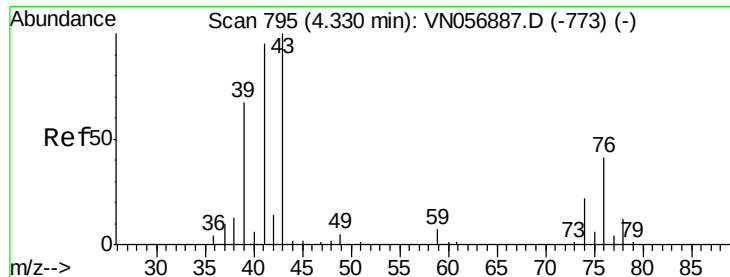
96 76.2 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#12

Methyl Acetate

Concen: 2.438 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.02 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

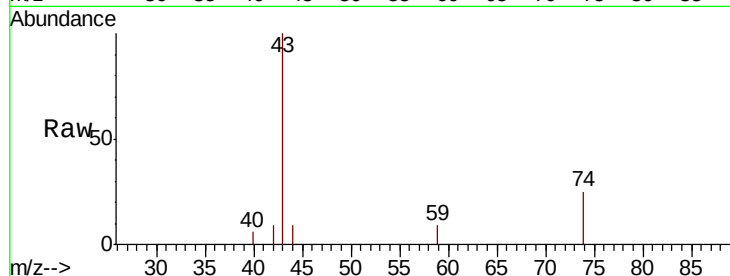
VN0806WBL02

Tgt Ion: 43 Resp: 11624

Ion Ratio Lower Upper

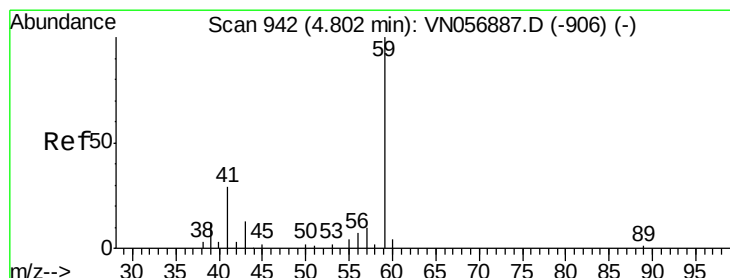
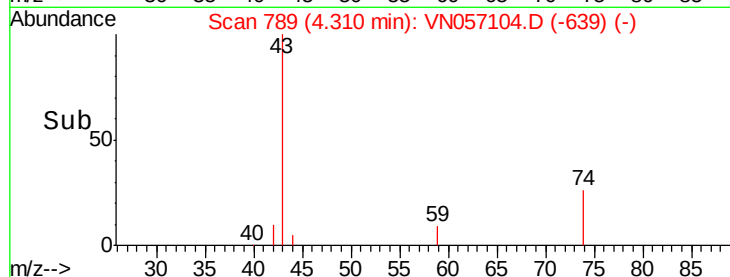
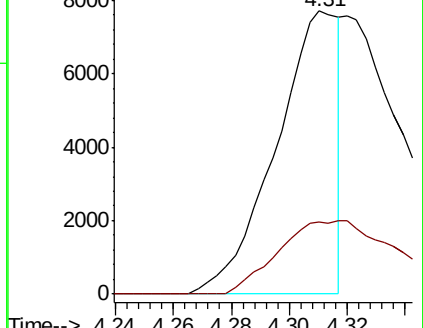
43 100

74 24.4 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VN057104.D (-639) (-)

Ion 74.00 (73.70 to 74.70): VN057104.D (-639) (-)



#23

tert-Butyl Alcohol

Concen: 2.445 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.48 min

Lab File: VN057104.D

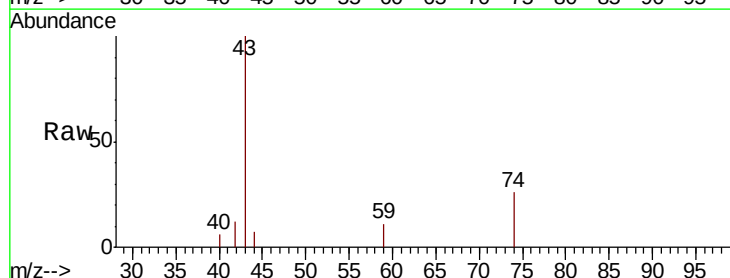
Acq: 6 Aug 2019 15:38

Tgt Ion: 59 Resp: 1500

Ion Ratio Lower Upper

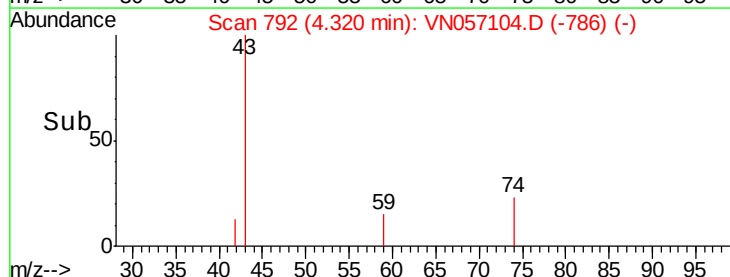
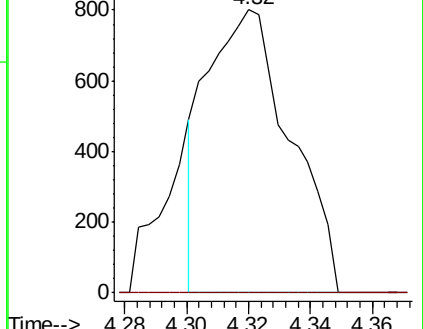
59 100

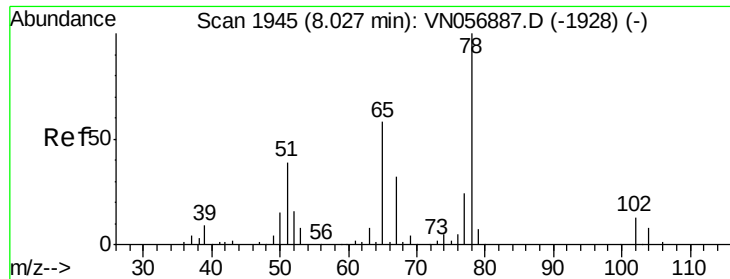
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN057104.D (-786) (-)

Ion 52.00 (51.70 to 52.70): VN057104.D (-786) (-)

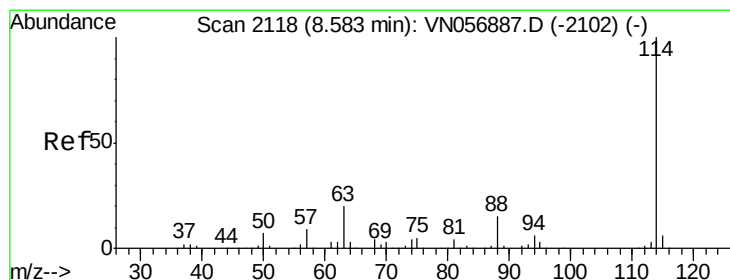
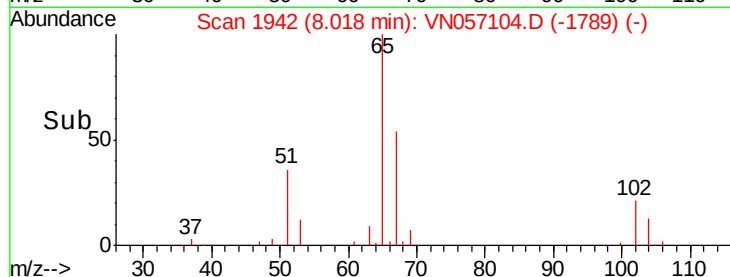
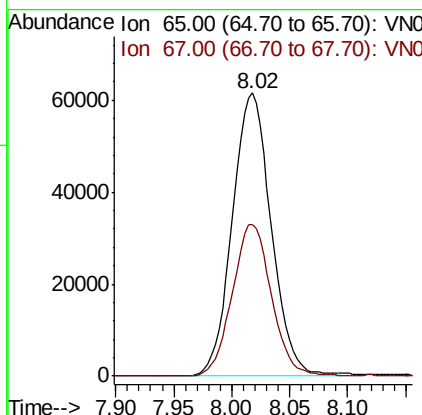
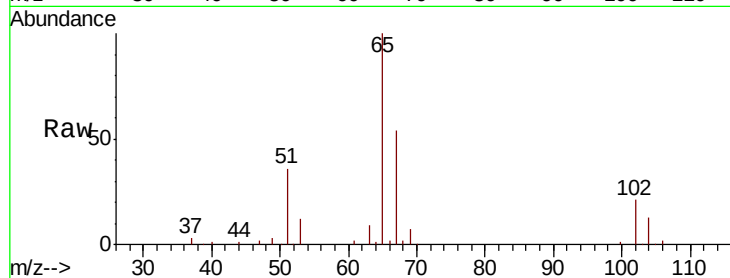




#27
 1,2-Dichloroethane-d4
 Concen: 30.095 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. -0.01 min
 Lab File: VN057104.D
 Acq: 6 Aug 2019 15:38

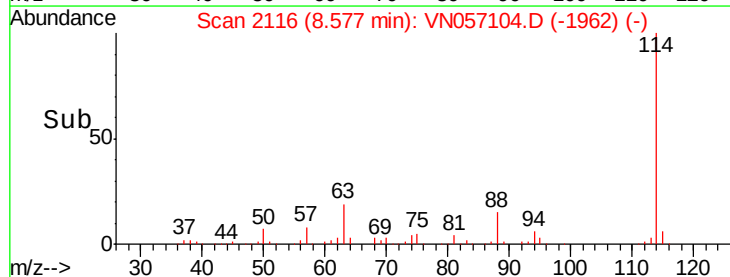
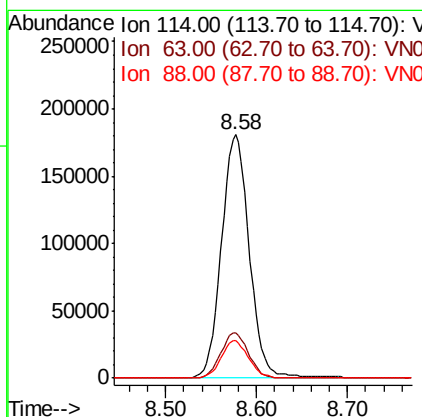
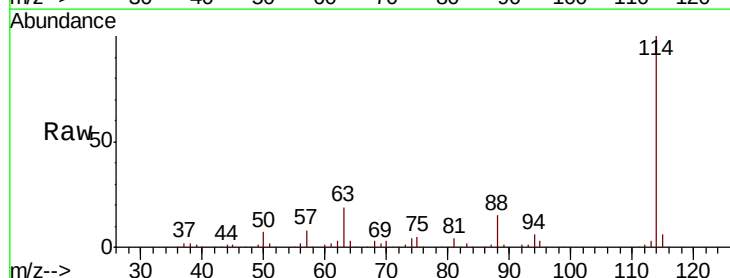
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBL02

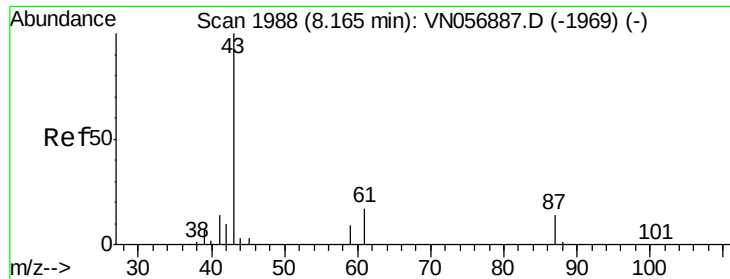
Tgt Ion: 65 Resp: 143722
 Ion Ratio Lower Upper
 65 100
 67 54.1 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.01 min
 Lab File: VN057104.D
 Acq: 6 Aug 2019 15:38

Tgt Ion: 114 Resp: 384240
 Ion Ratio Lower Upper
 114 100
 63 18.5 15.8 23.6
 88 15.2 12.5 18.7





#44

Isopropyl Acetate

Concen: 2.883 ug/l

RT: 8.20 min Scan# 1999

Delta R.T. 0.04 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

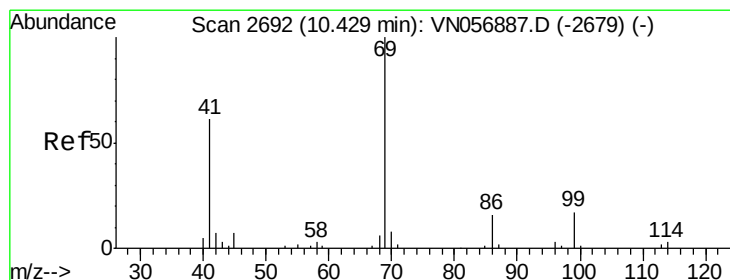
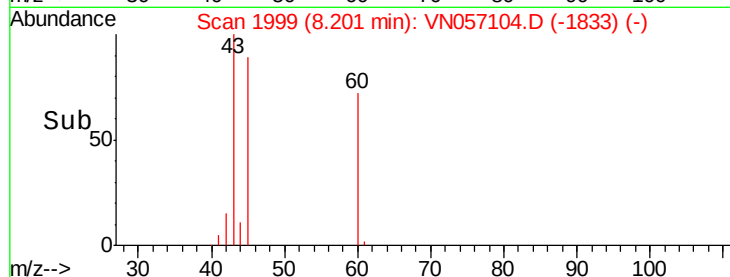
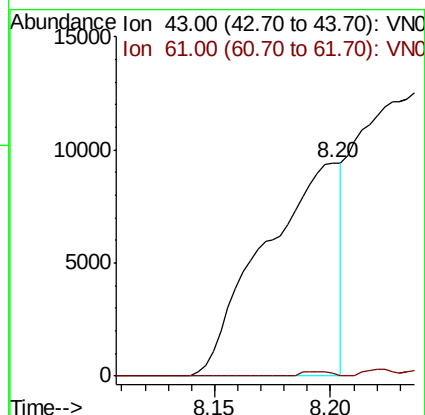
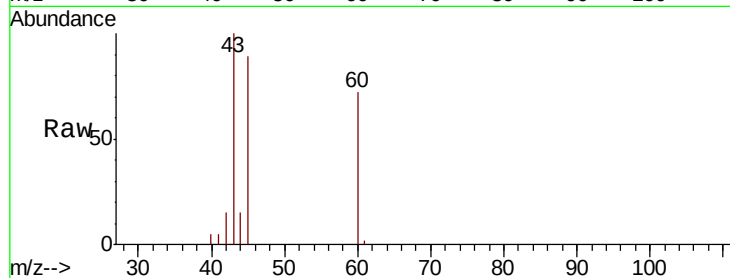
VN0806WBL02

Tgt Ion: 43 Resp: 21582

Ion Ratio Lower Upper

43 100

61 0.9 23.0 34.4#



#51

Ethyl methacrylate

Concen: 0.259 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.34 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

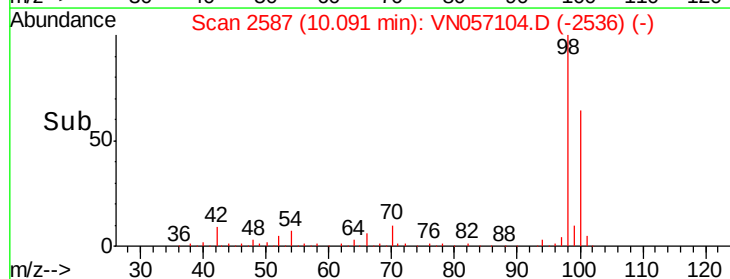
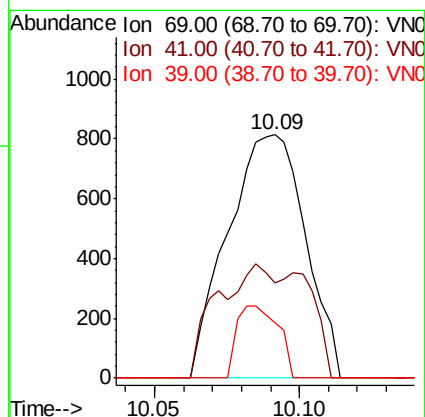
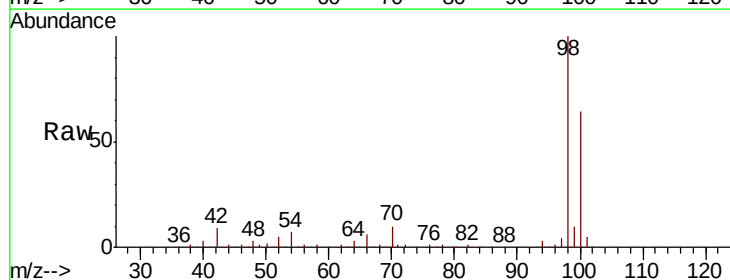
Tgt Ion: 69 Resp: 1514

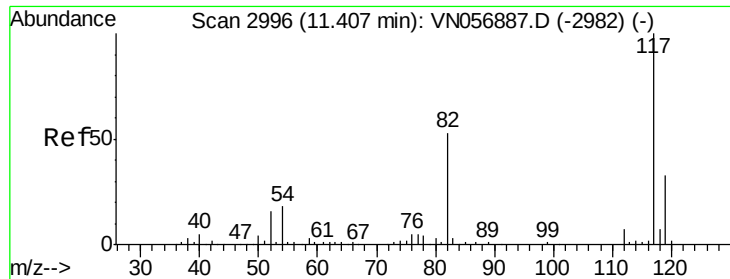
Ion Ratio Lower Upper

69 100

41 39.2 30.4 91.3

39 22.6 14.2 42.6

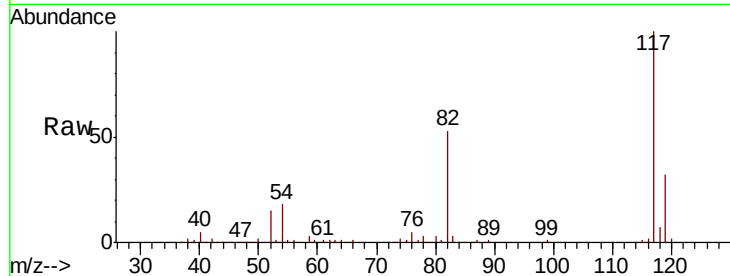




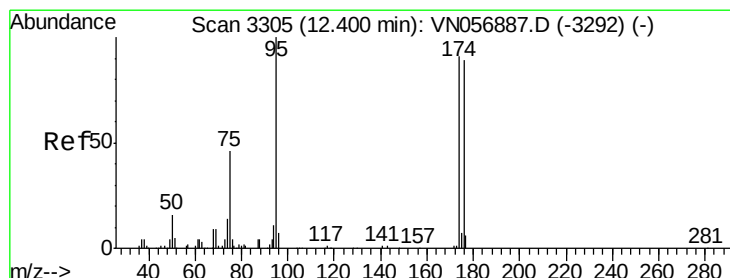
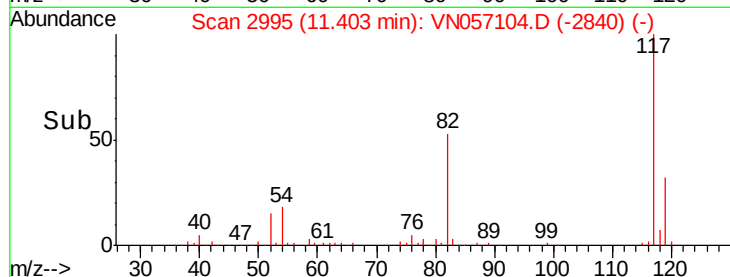
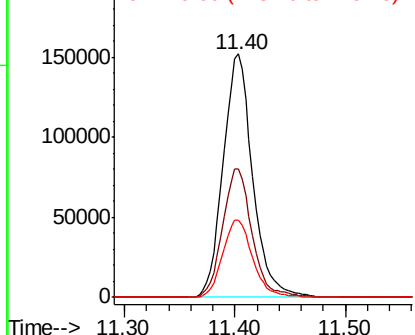
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057104.D
Acq: 6 Aug 2019 15:38

Instrument :
MSVOA_N
ClientSampleId :
VN0806WBL02

Tgt Ion: 117 Resp: 282175
Ion Ratio Lower Upper
117 100
82 52.6 43.0 64.4
119 32.3 26.2 39.2

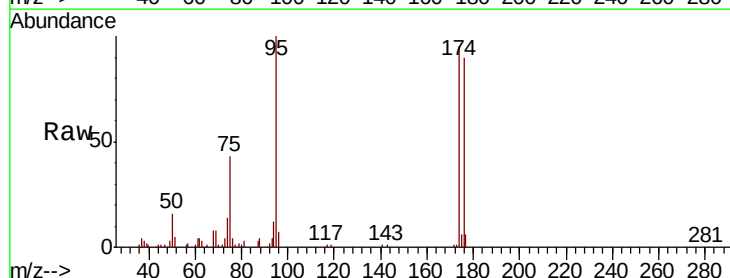


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

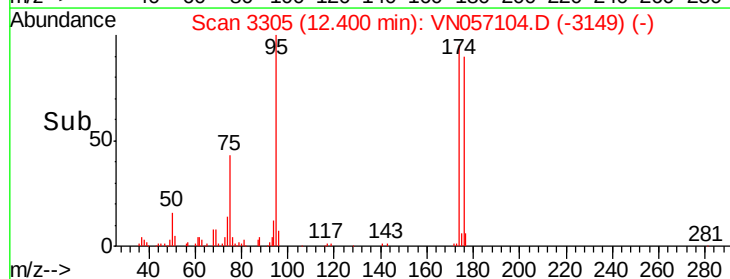
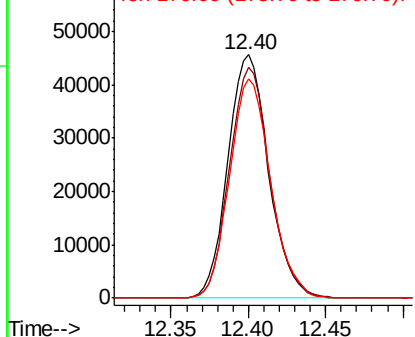


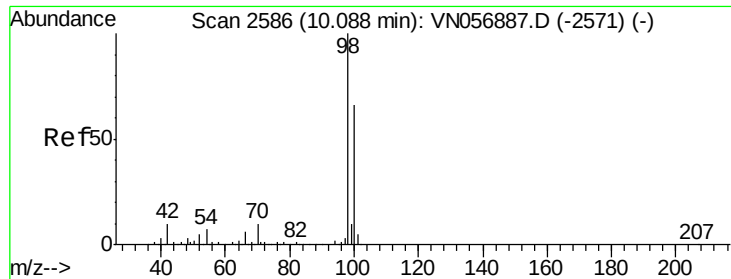
#60
4-Bromofluorobenzene
Concen: 19.737 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057104.D
Acq: 6 Aug 2019 15:38

Tgt Ion: 95 Resp: 83471
Ion Ratio Lower Upper
95 100
174 94.4 71.9 107.9
176 90.9 69.8 104.8



Abundance Ion 95.00 (94.70 to 95.70): V
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 32.484 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

Instrument :

MSVOA_N

ClientSampled :

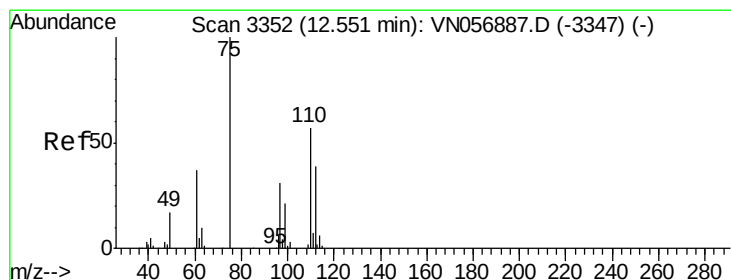
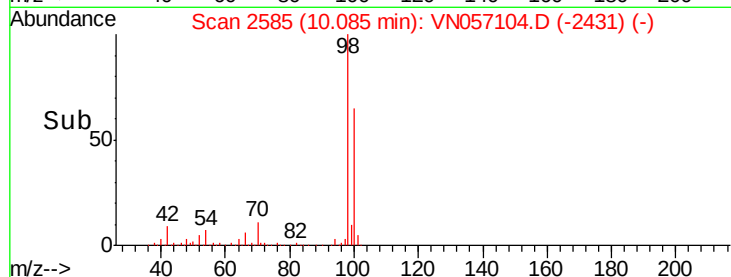
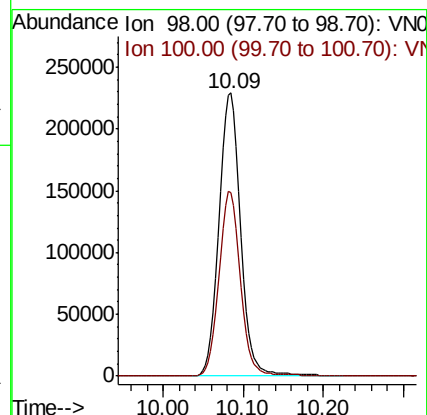
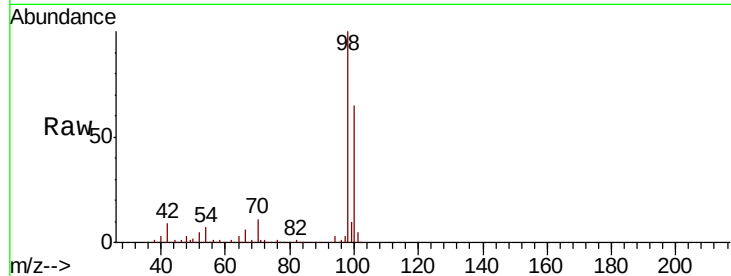
VN0806WBL02

Tgt Ion: 98 Resp: 432988

Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.2



#72

1,2,3-Trichloropropane

Concen: 9.798 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057104.D

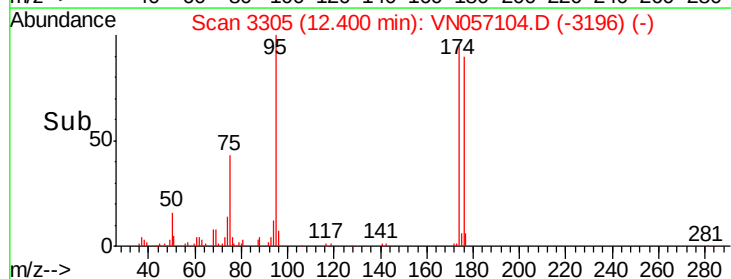
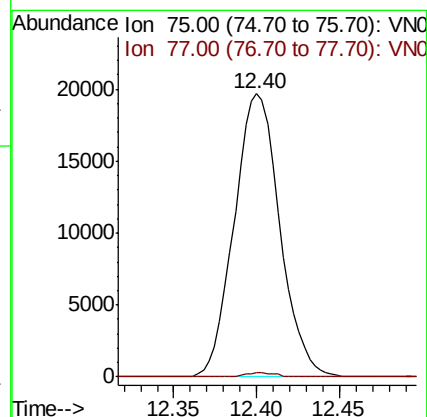
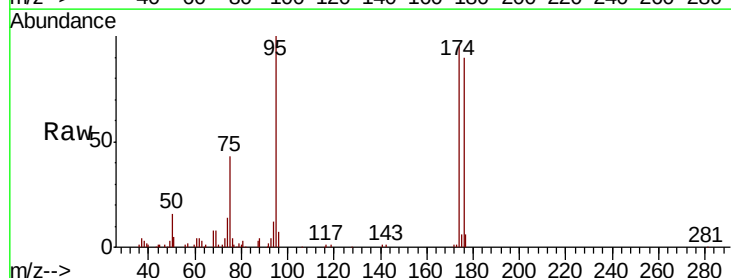
Acq: 6 Aug 2019 15:38

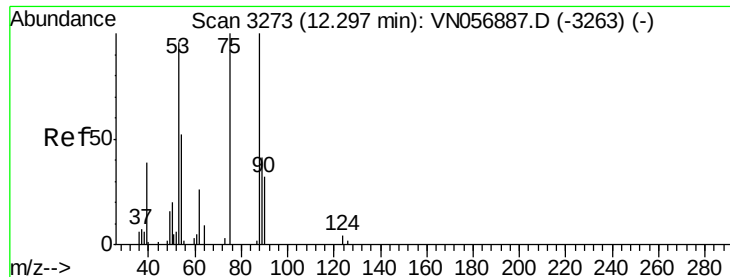
Tgt Ion: 75 Resp: 37695

Ion Ratio Lower Upper

75 100

77 0.9 0.0 378.6





#77

t-1,4-Dichloro-2-butene

Concen: 31.206 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

Instrument :

MSVOA_N

ClientSampleId :

VN0806WBL02

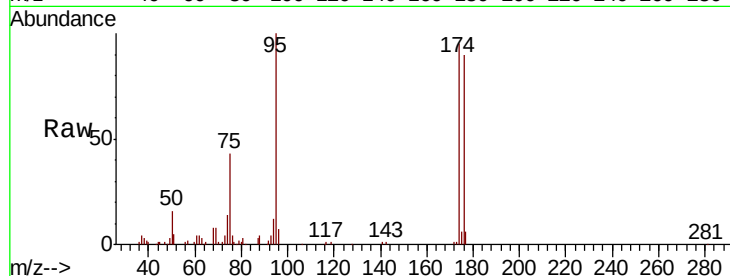
Tgt Ion: 75 Resp: 37695

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

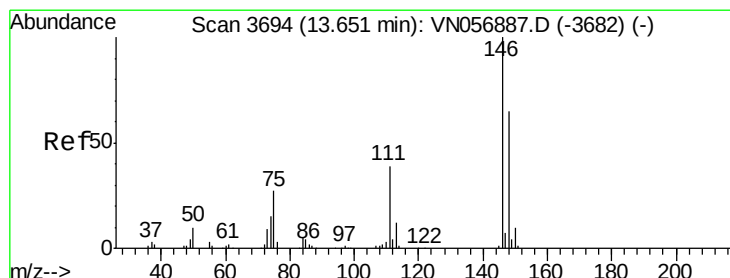
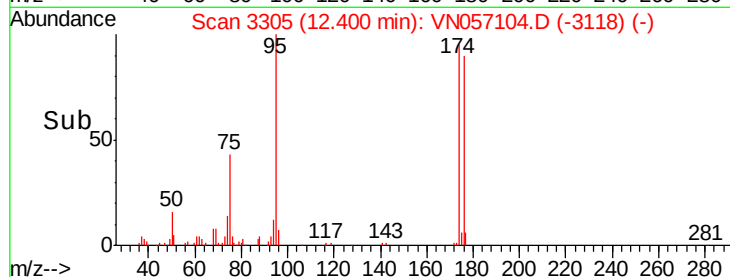
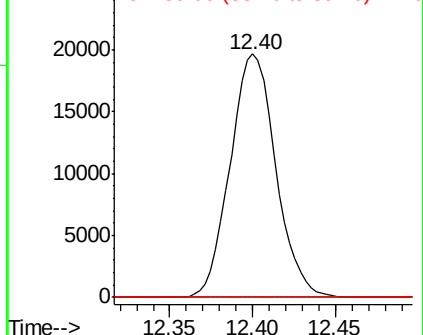
89 0.0 21.4 64.3#



Abundance Ion 75.00 (74.70 to 75.70): VN057104.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN057104.D (-3305) (-)

Ion 89.00 (88.70 to 89.70): VN057104.D (-3305) (-)



#87

1,2-Dichlorobenzene

Concen: 0.222 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN057104.D

Acq: 6 Aug 2019 15:38

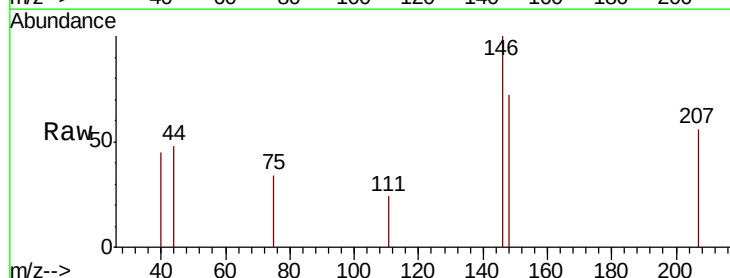
Tgt Ion: 146 Resp: 1398

Ion Ratio Lower Upper

146 100

111 10.7 19.6 58.8#

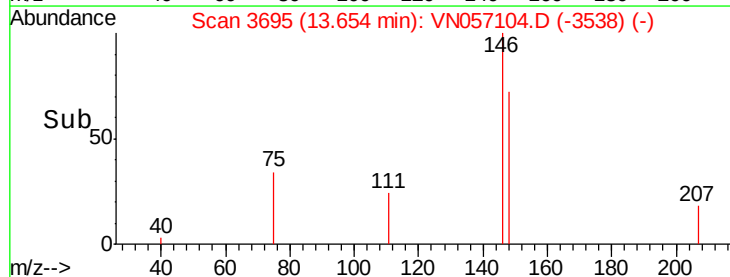
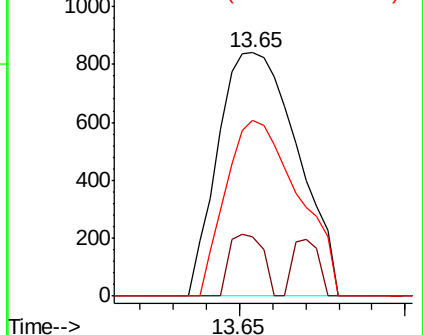
148 66.0 32.5 97.5

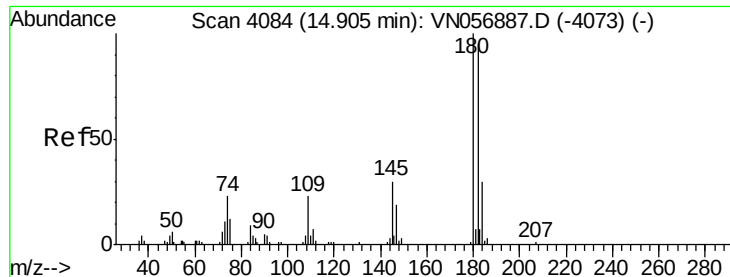


Abundance Ion 146.00 (145.70 to 146.70): VN057104.D (-3695) (-)

Ion 111.00 (110.70 to 111.70): VN057104.D (-3695) (-)

Ion 148.00 (147.70 to 148.70): VN057104.D (-3695) (-)

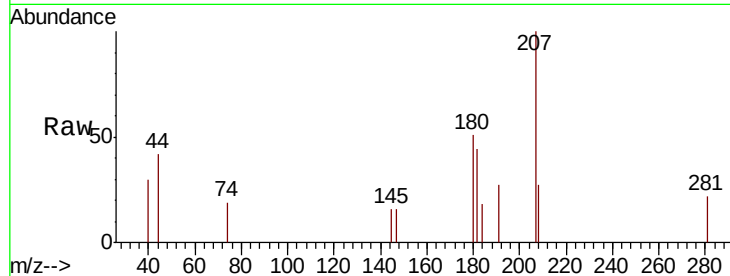




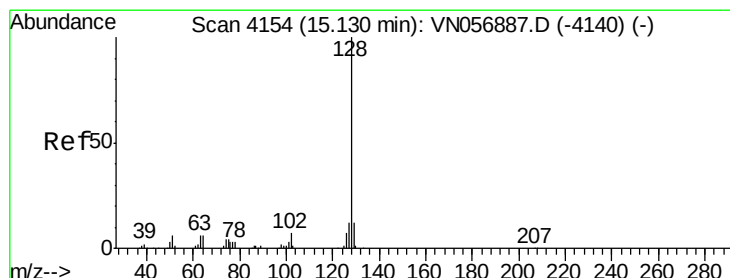
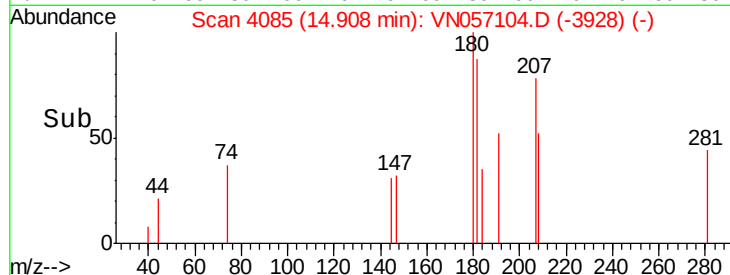
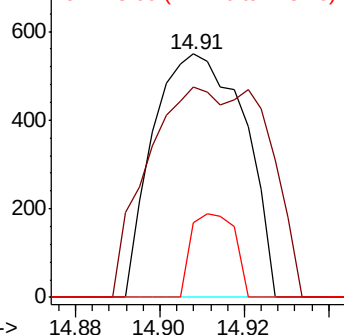
#89
 1,2,4-Trichlorobenzene
 Concen: 8.195 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN057104.D
 Acq: 6 Aug 2019 15:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBL02

Tgt Ion:180 Resp: 821
 Ion Ratio Lower Upper
 180 100
 182 70.8 77.0 115.4#
 145 16.4 23.5 35.3#

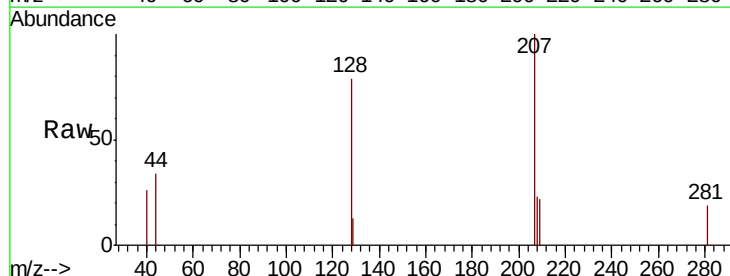


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

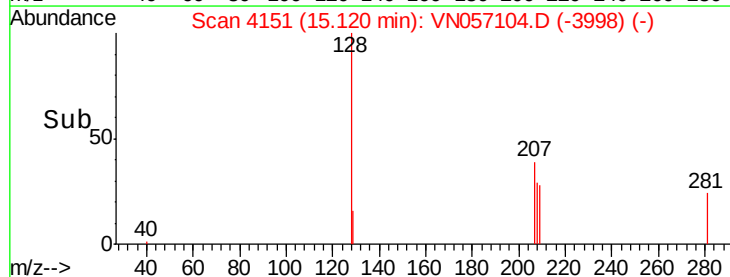
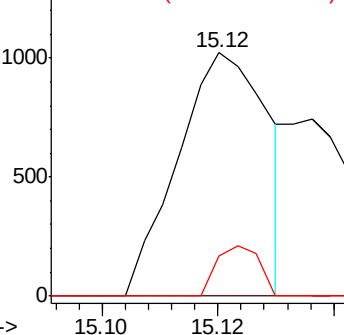


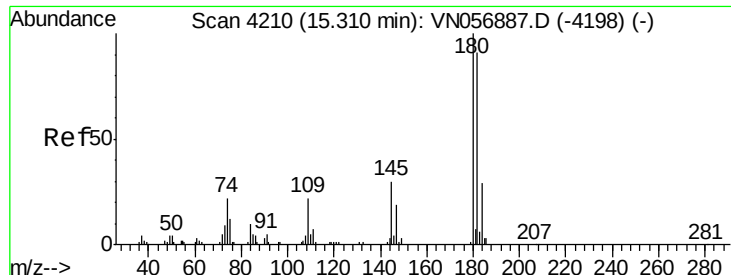
#91
 Naphthalene
 Concen: 7.790 ug/l
 RT: 15.12 min Scan# 4151
 Delta R.T. -0.01 min
 Lab File: VN057104.D
 Acq: 6 Aug 2019 15:38

Tgt Ion:128 Resp: 1098
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.0 15.0#
 129 9.7 8.9 13.3



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





#92
 1,2,3-Trichlorobenzene
 Concen: 0.331 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.01 min
 Lab File: VN057104.D
 Acq: 6 Aug 2019 15:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.8	0.0	188.0
145	45.2	0.0	61.0

