

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055866.D
 Acq On : 29 May 2019 10:22
 Operator : JC/SP
 Sample : VN0529WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBL01

Quant Time: May 30 03:38:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59908	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	319391	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	256681	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114373	29.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.37%
60) 4-Bromofluorobenzene	12.40	95	91826	23.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.67%
63) Toluene-d8	10.09	98	370212	31.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.20%

Target Compounds

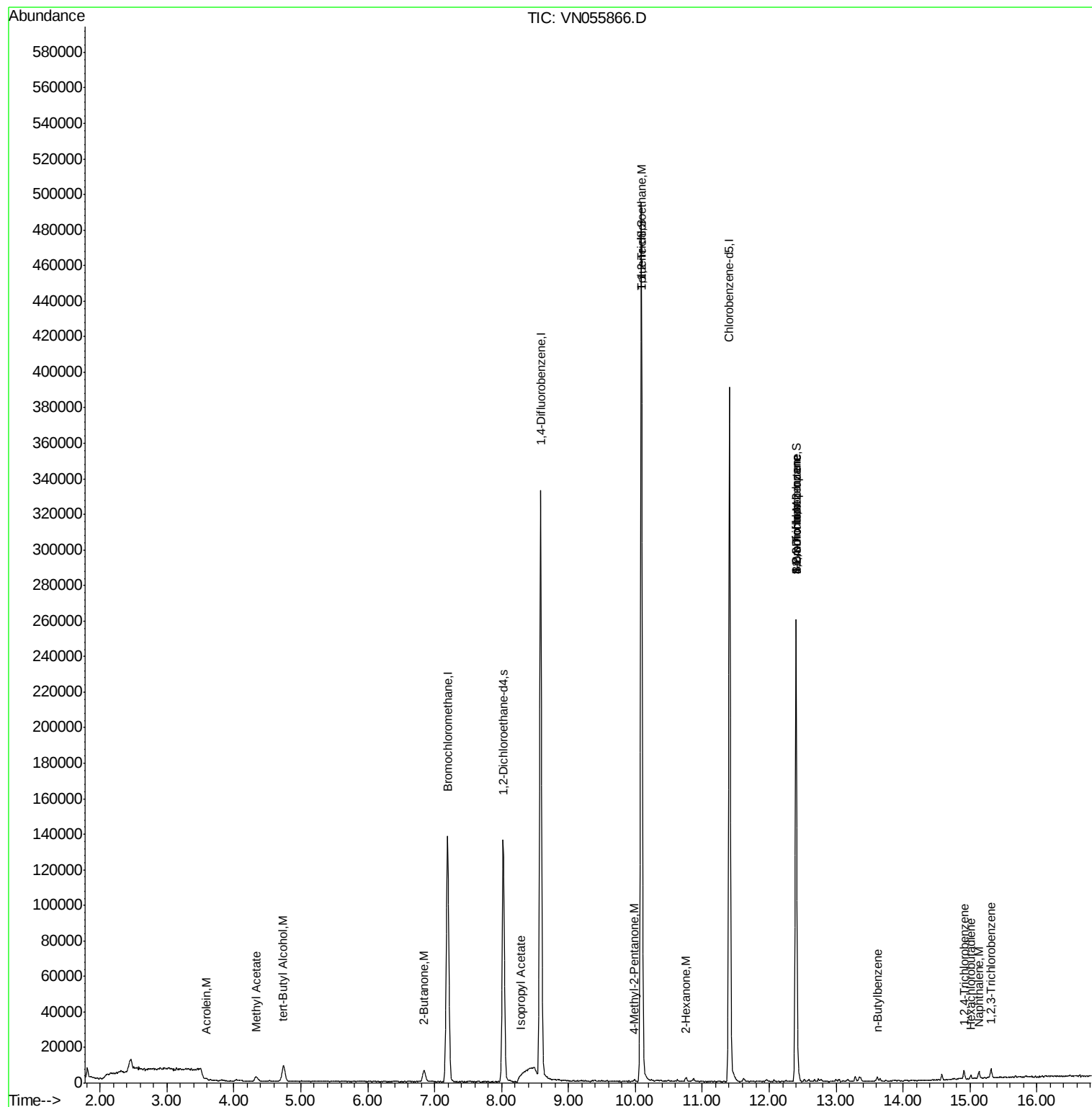
					Ovalue
12) Methyl Acetate	4.34	43	6017	1.556 ug/l	96
13) Acrolein	3.60	56	210	0.391 ug/l #	1
23) tert-Butyl Alcohol	4.74	59	8430	10.887 ug/l #	100
30) 2-Butanone	6.85	43	583	0.245 ug/l #	55
44) Isopropyl Acetate	8.29	43	3272	0.422 ug/l #	47
50) 1,1,2-Trichloroethane	10.09	97	10872	3.117 ug/l #	1
56) Bromoform	12.40	173	785	0.232 ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	1777	0.418 ug/l #	57
59) 2-Hexanone	10.76	43	2588	0.852 ug/l #	71
72) 1,2,3-Trichloropropane	12.40	75	42738	10.878 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	42738	27.384 ug/l #	17
85) n-Butylbenzene	13.61	91	2031	0.207 ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	2061	0.616 ug/l	93
90) Hexachlorobutadiene	15.01	225	614	0.246 ug/l	75
91) Naphthalene	15.13	128	4982	0.545 ug/l #	92
92) 1,2,3-Trichlorobenzene	15.31	180	2665	0.763 ug/l	91

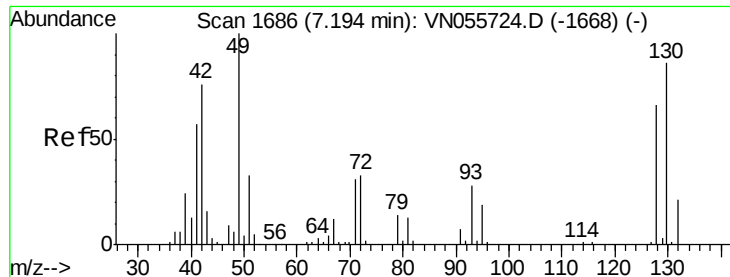
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 30 03:38:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

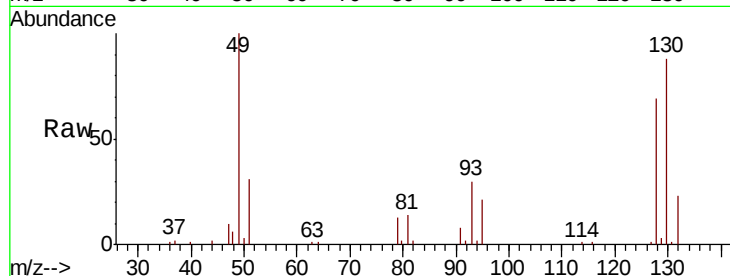
Tot Ion:128 Resp: 59908

Ion Ratio Lower Upper

128 100

49 141.0 0.0 383.2

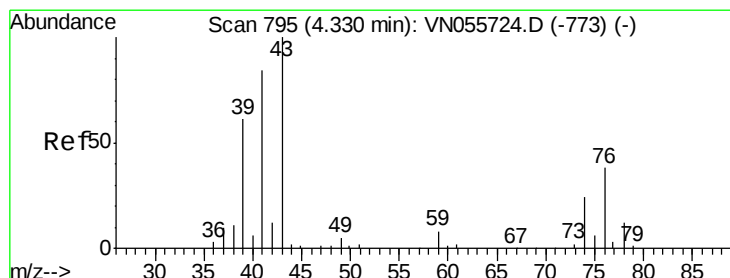
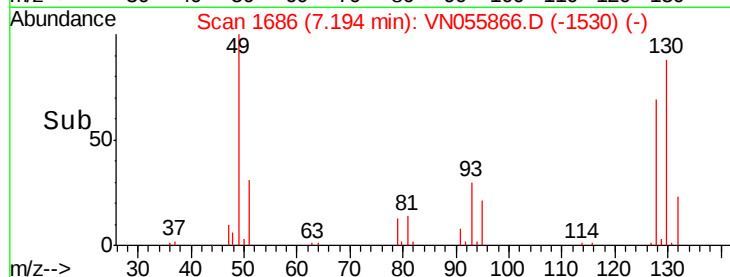
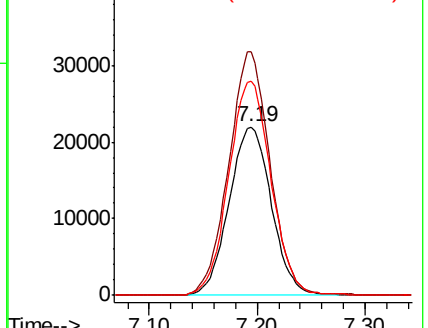
130 127.6 0.0 326.3



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



#12

Methyl Acetate

Concen: 1.556 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055866.D

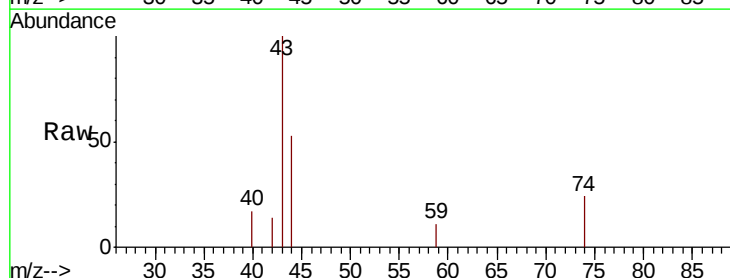
Acq: 29 May 2019 10:22

Tgt Ion: 43 Resp: 6017

Ion Ratio Lower Upper

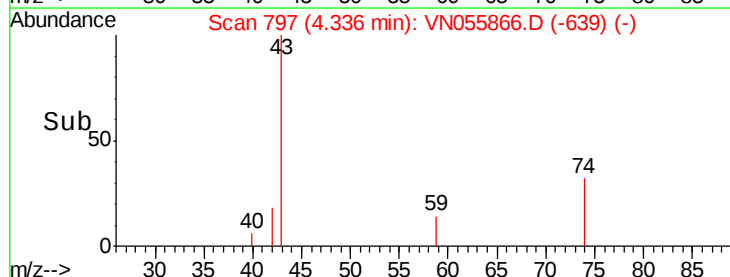
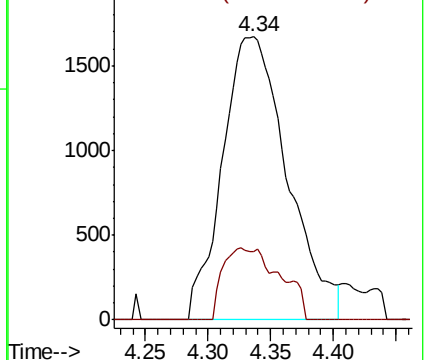
43 100

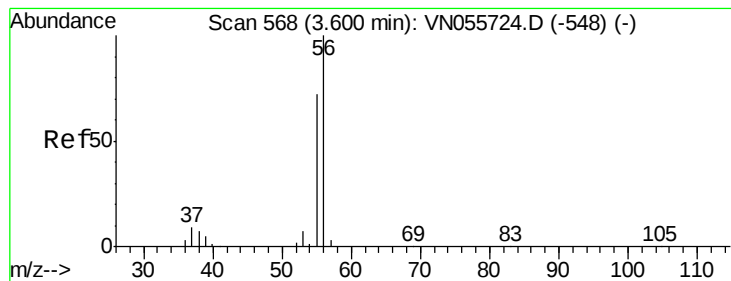
74 26.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.391 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampled :

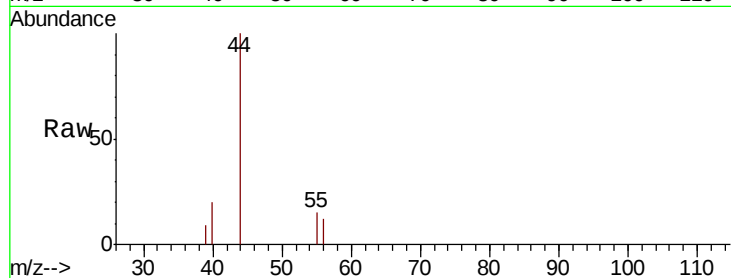
VN0529WBL01

Tot Ion: 56 Resp: 210

Ion Ratio Lower Upper

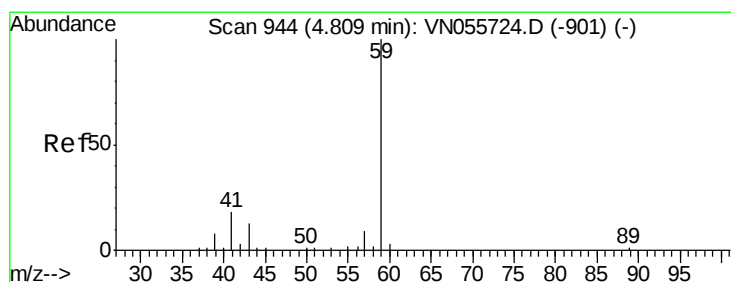
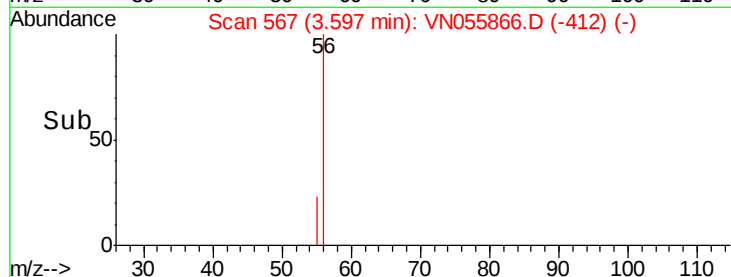
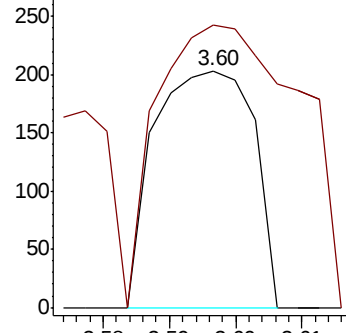
56 100

55 154.3 57.0 85.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#23

tert-Butyl Alcohol

Concen: 10.887 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055866.D

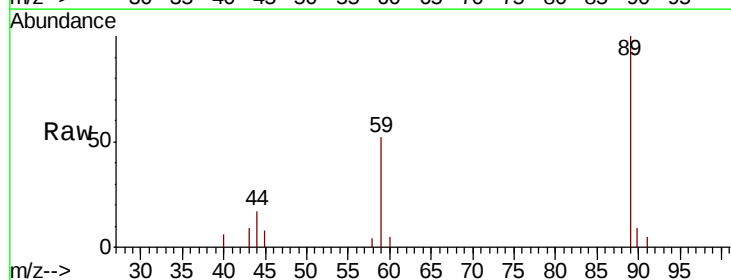
Acq: 29 May 2019 10:22

Tgt Ion: 59 Resp: 8430

Ion Ratio Lower Upper

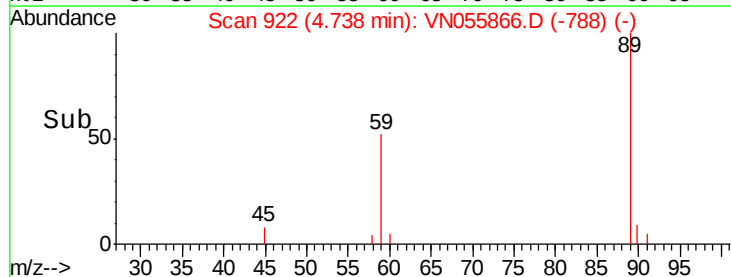
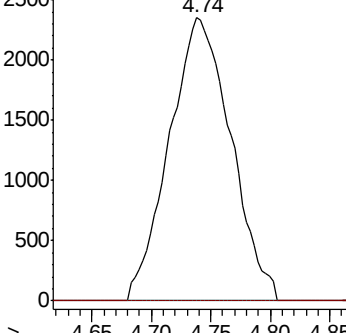
59 100

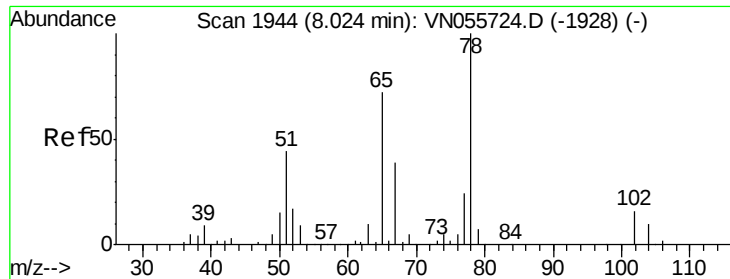
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

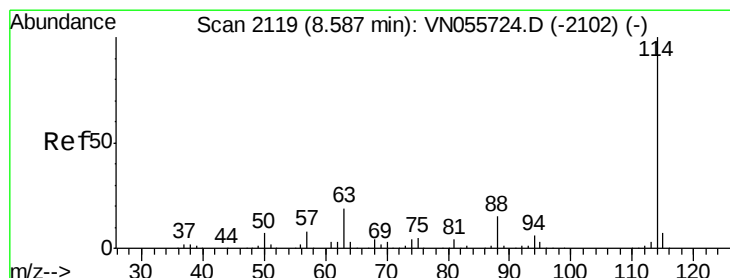
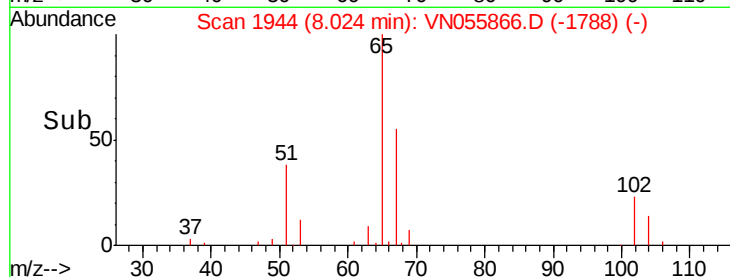
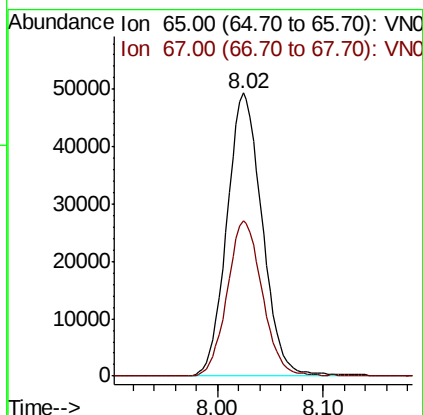
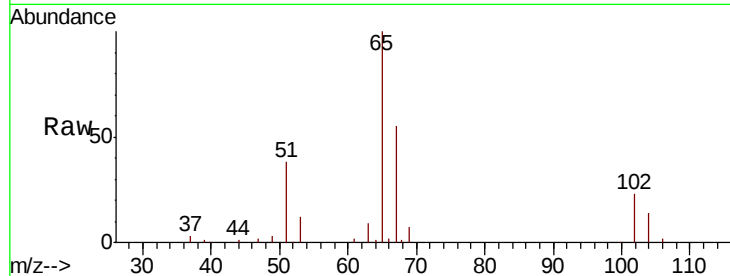




#27
 1,2-Dichloroethane-d4
 Concen: 29.208 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

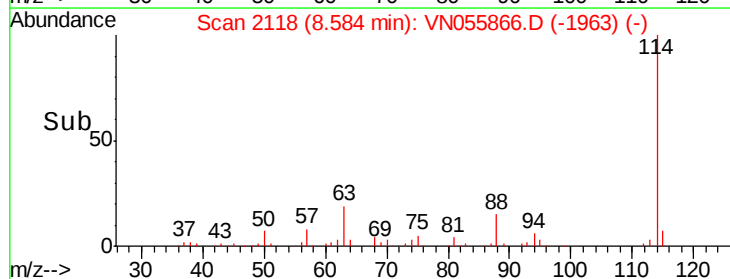
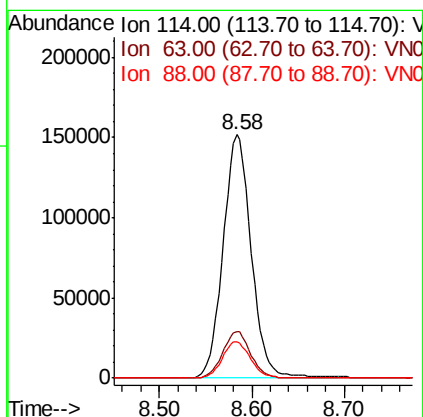
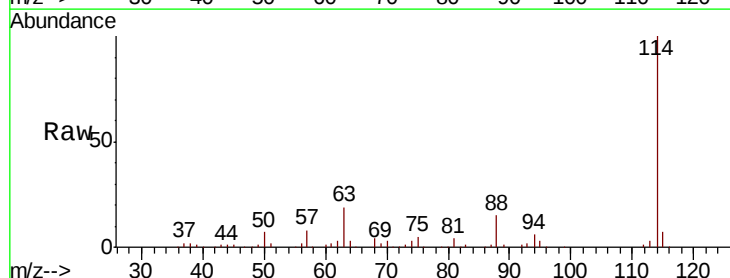
Instrument :
 MSVOA_N
 ClientSampled :
 VN0529WBL01

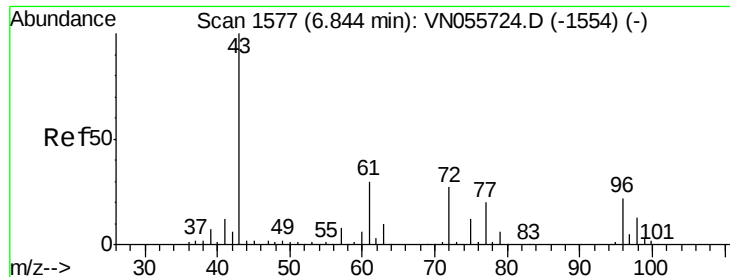
Tot Ion: 65 Resp: 114373
 Ion Ratio Lower Upper
 65 100
 67 54.6 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Tgt Ion: 114 Resp: 319391
 Ion Ratio Lower Upper
 114 100
 63 19.1 15.6 23.4
 88 15.0 12.3 18.5

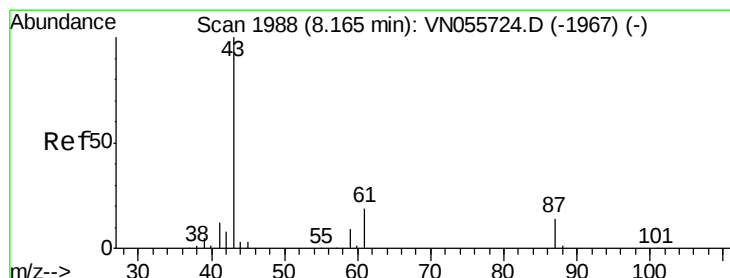
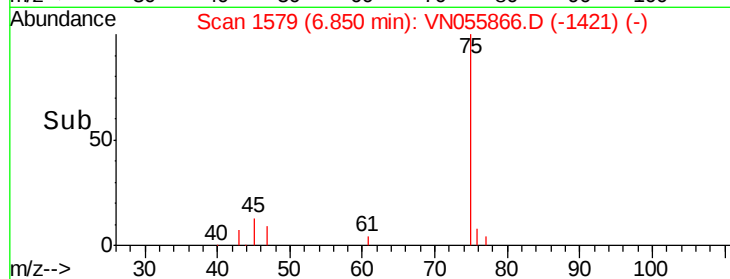
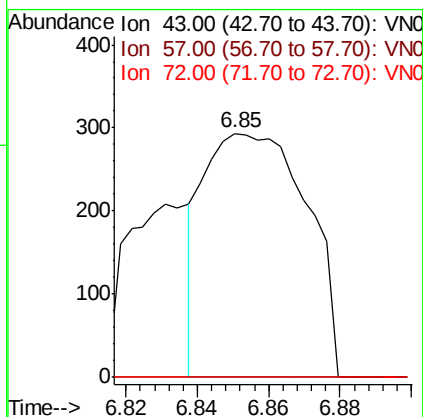
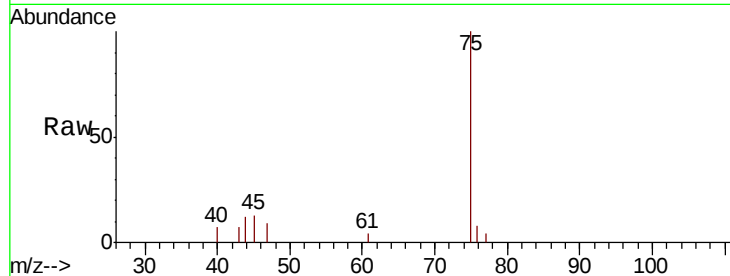




#30
 2-Butanone
 Concen: 0.245 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

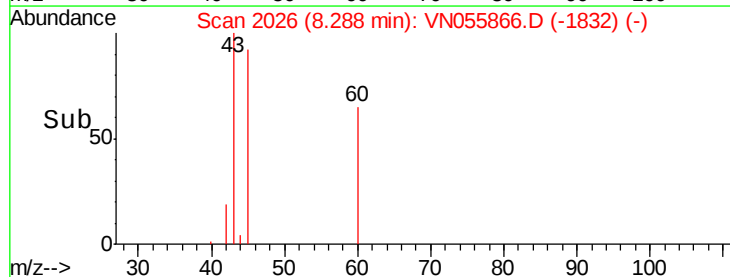
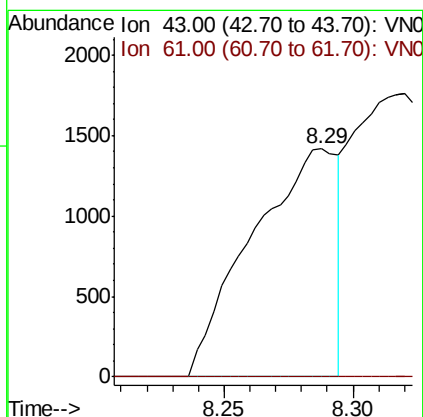
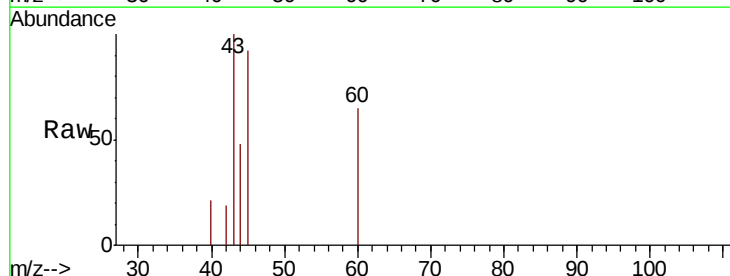
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBL01

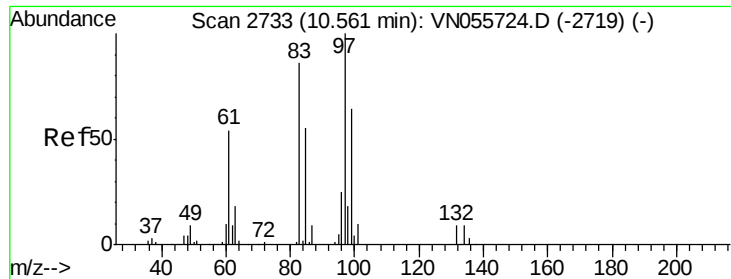
Tot Ion: 43 Resp: 583
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.6 10.0#
 72 0.0 21.7 32.5#



#44
 Isopropyl Acetate
 Concen: 0.422 ug/l
 RT: 8.29 min Scan# 2026
 Delta R.T. 0.12 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Tgt Ion: 43 Resp: 3272
 Ion Ratio Lower Upper
 43 100
 61 0.0 22.1 33.1#





#50

1,1,2-Trichloroethane

Concen: 3.117 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.47 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

Tot Ion: 97 Resp: 10872

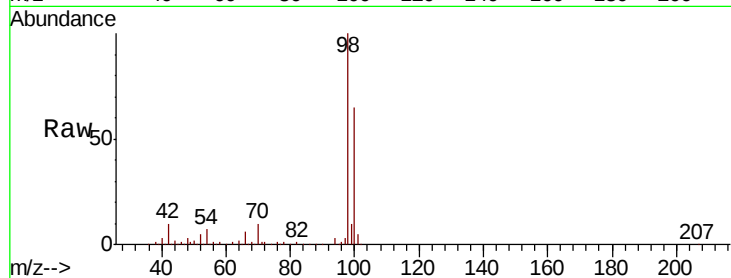
Ion Ratio Lower Upper

97 100

83 0.0 68.9 103.3#

85 0.0 44.3 66.5#

99 328.8 51.4 77.0#

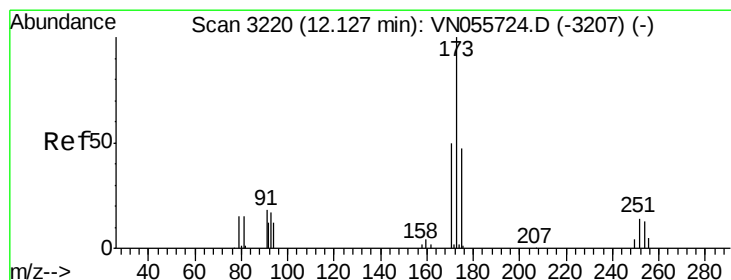
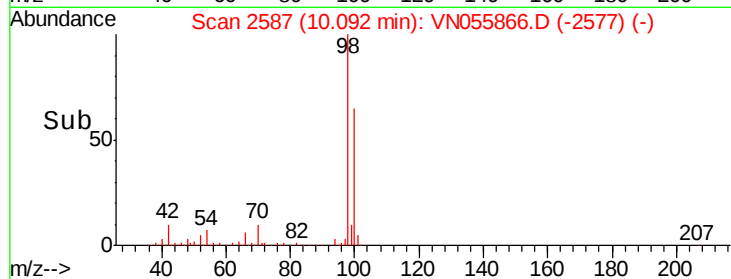
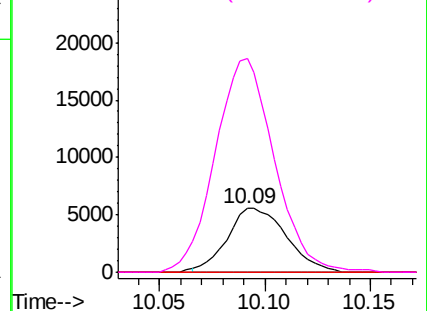


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0



#56

Bromoform

Concen: 0.232 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

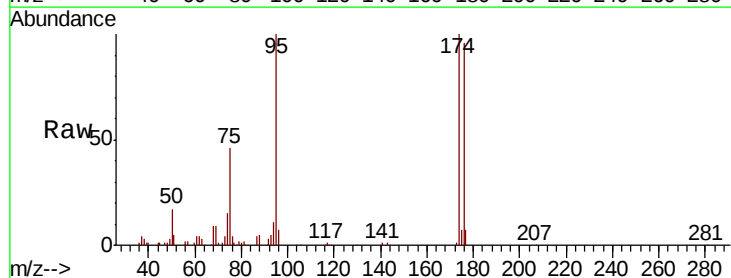
Tgt Ion: 173 Resp: 785

Ion Ratio Lower Upper

173 100

175 836.9 38.5 57.7#

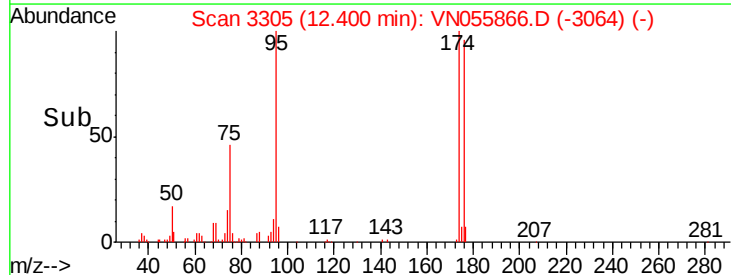
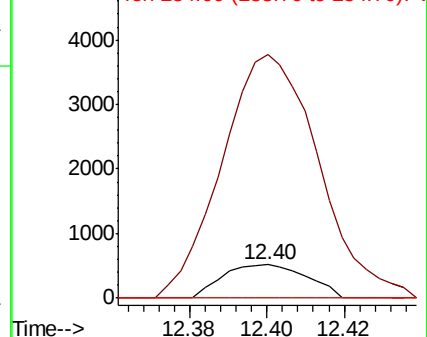
254 0.0 9.4 14.0#

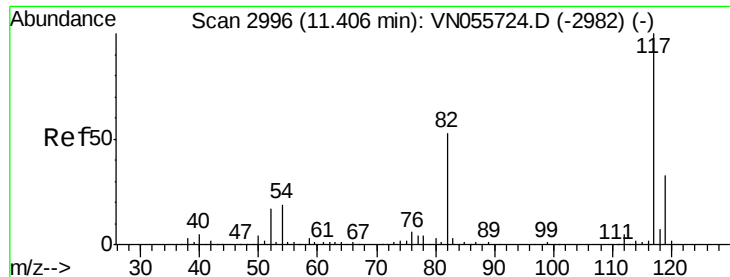


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

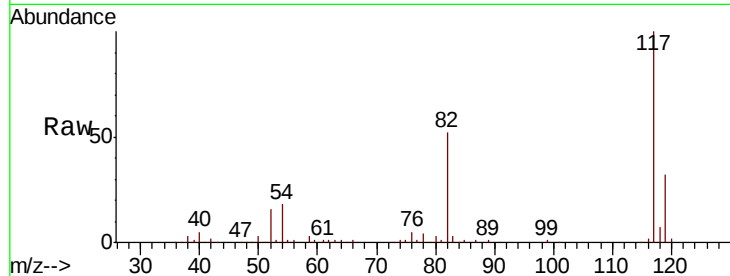




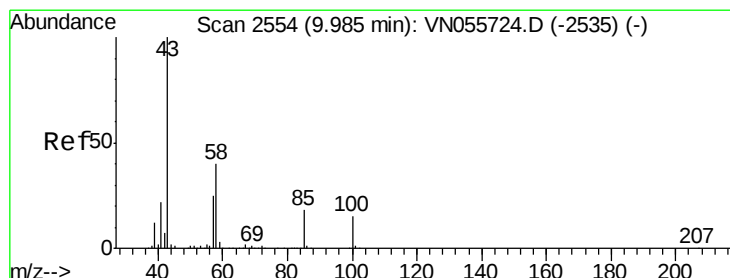
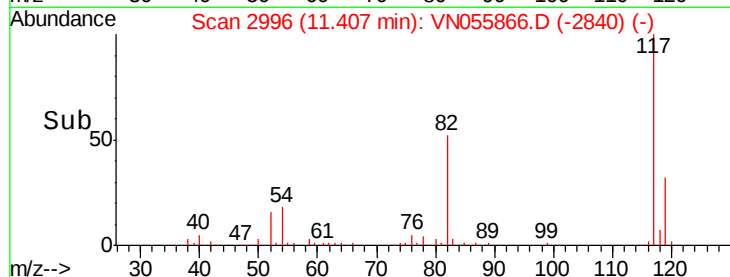
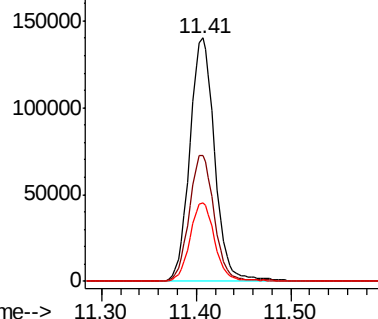
#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0529WBL01

Tot Ion:117 Resp: 256681
 Ion Ratio Lower Upper
 117 100
 82 52.2 42.6 64.0
 119 32.1 25.9 38.9

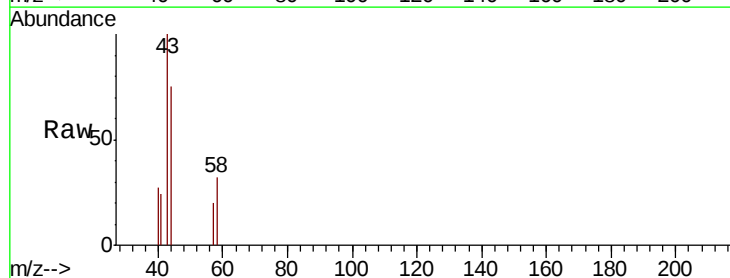


Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 82.00 (81.70 to 82.70): VN
 Ion 119.00 (118.70 to 119.70): V

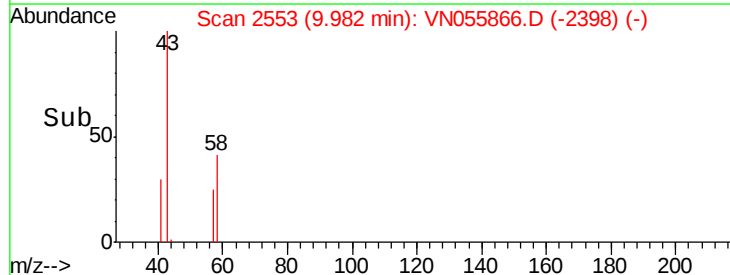
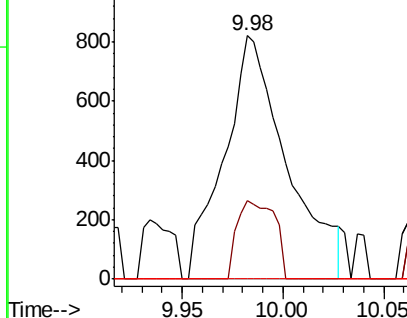


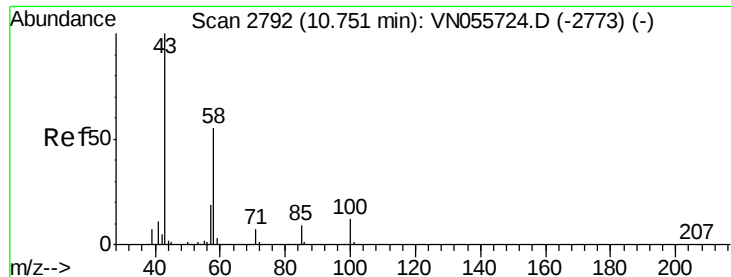
#58
 4-Methyl-2-Pentanone
 Concen: 0.418 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Tgt Ion: 43 Resp: 1777
 Ion Ratio Lower Upper
 43 100
 58 12.3 31.7 47.5#
 85 0.0 14.5 21.7#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 58.00 (57.70 to 58.70): VN
 Ion 85.00 (84.70 to 85.70): VN

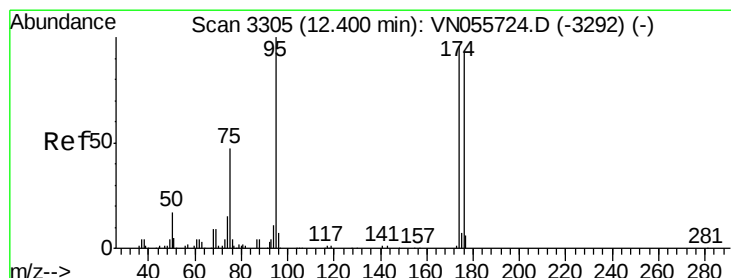
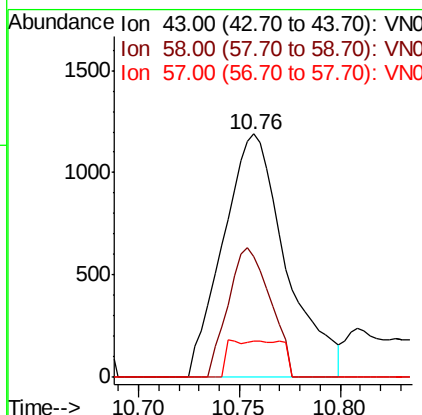
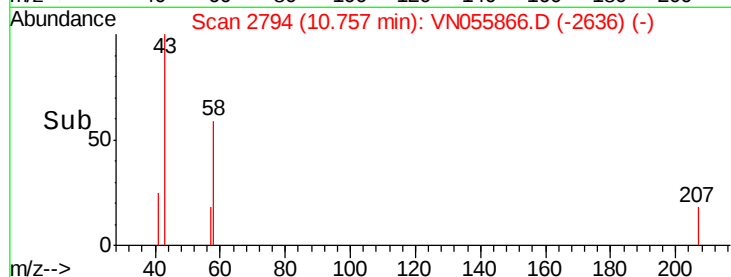
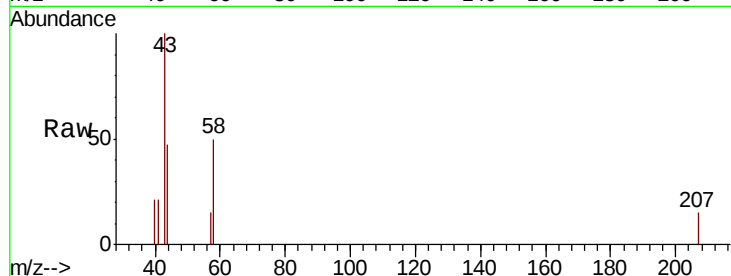




#59
2-Hexanone
Concen: 0.852 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055866.D
Acq: 29 May 2019 10:22

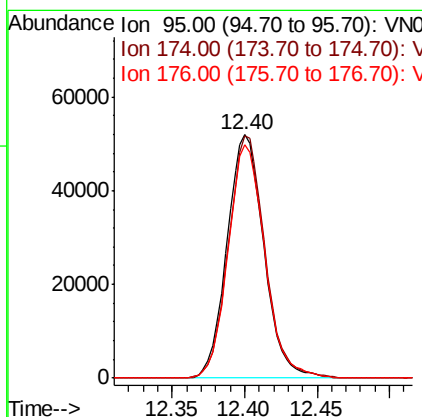
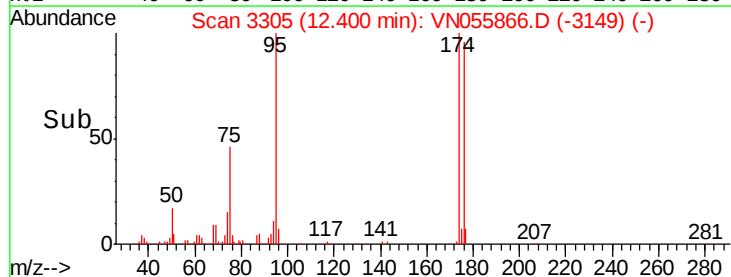
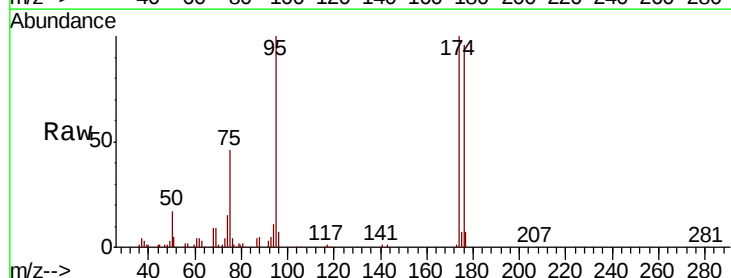
Instrument :
MSVOA_N
ClientSampleId :
VN0529WBL01

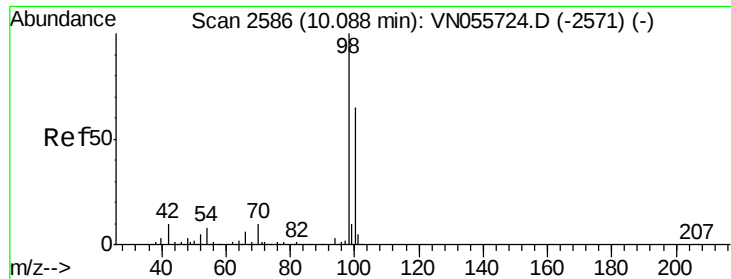
Tot Ion: 43 Resp: 2588
Ion Ratio Lower Upper
43 100
58 35.9 44.8 67.2#
57 3.9 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 22.997 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055866.D
Acq: 29 May 2019 10:22

Tgt Ion: 95 Resp: 91826
Ion Ratio Lower Upper
95 100
174 98.5 75.7 113.5
176 95.4 74.1 111.1





#63

Toluene-d8

Concen: 31.561 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

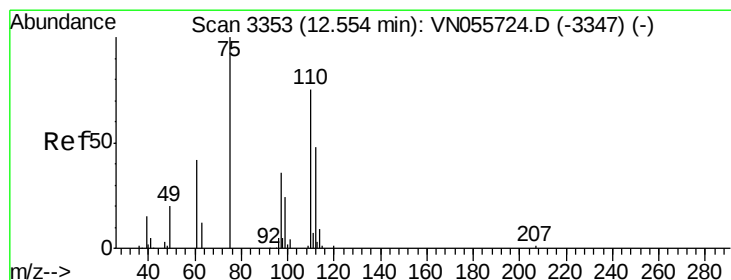
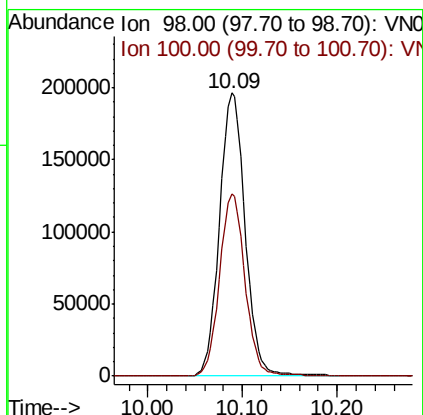
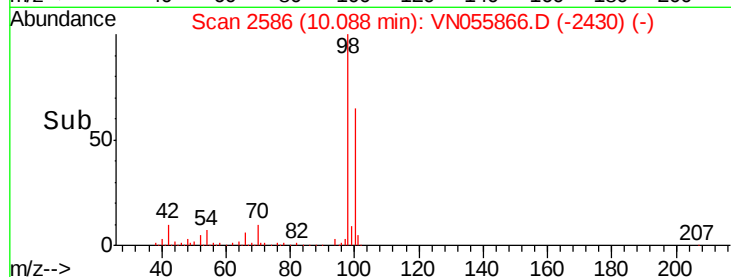
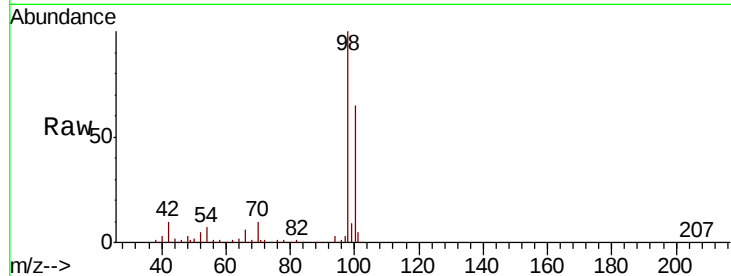
VN0529WBL01

Tot Ion: 98 Resp: 370212

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 10.878 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055866.D

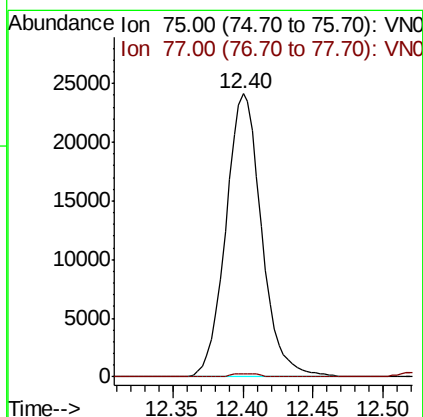
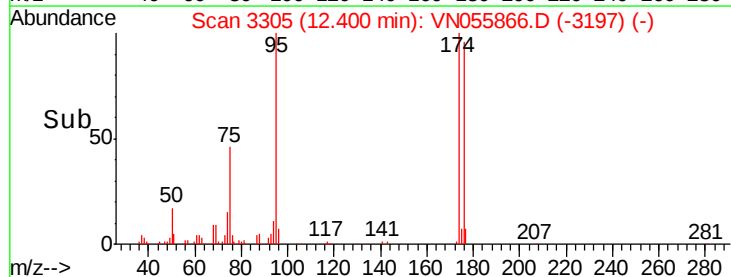
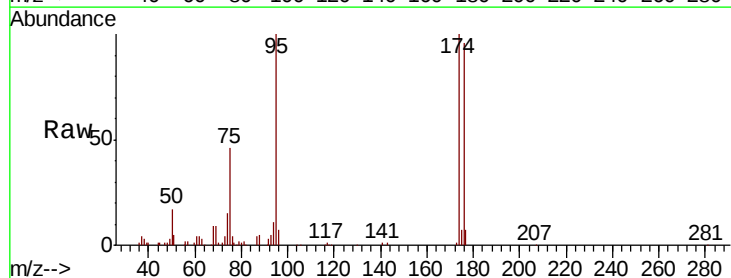
Acq: 29 May 2019 10:22

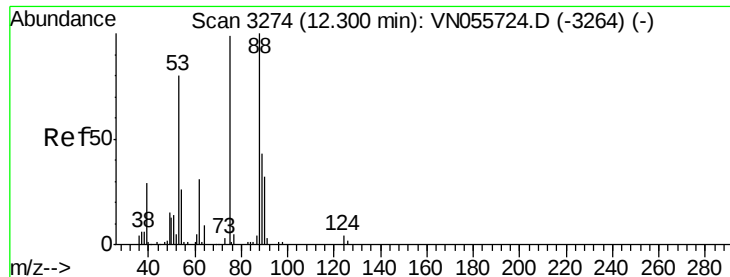
Tgt Ion: 75 Resp: 42738

Ion Ratio Lower Upper

75 100

77 0.9 0.0 349.8





#77

t-1,4-Dichloro-2-butene

Concen: 27.384 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

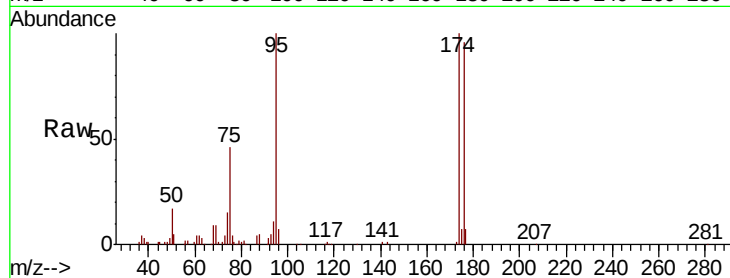
Tot Ion: 75 Resp: 42738

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

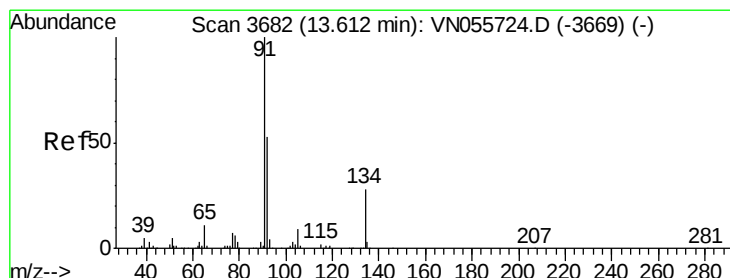
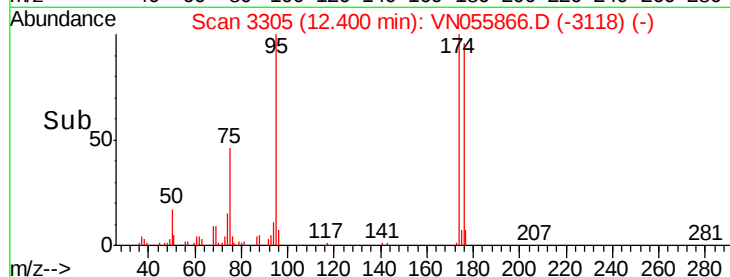
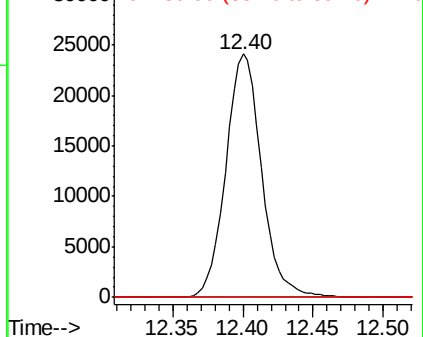
89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#85

n-Butylbenzene

Concen: 0.207 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

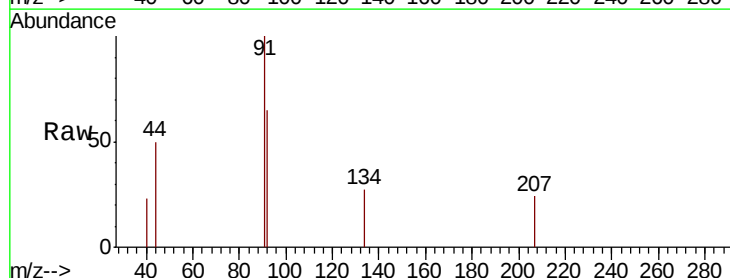
Tgt Ion: 91 Resp: 2031

Ion Ratio Lower Upper

91 100

92 55.9 0.0 106.8

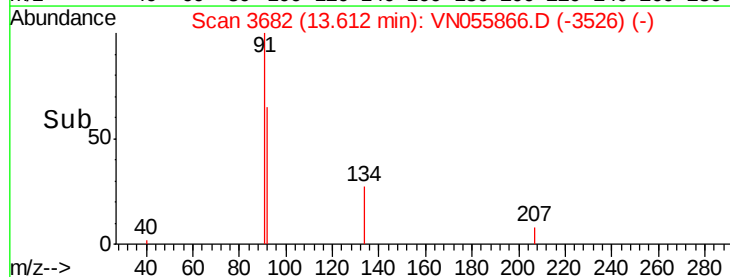
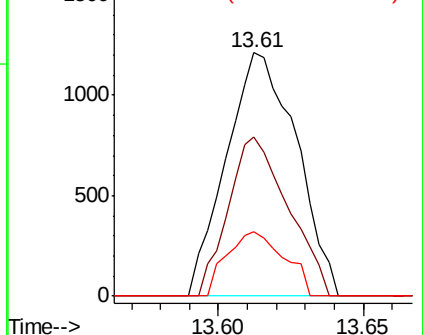
134 21.6 0.0 55.2

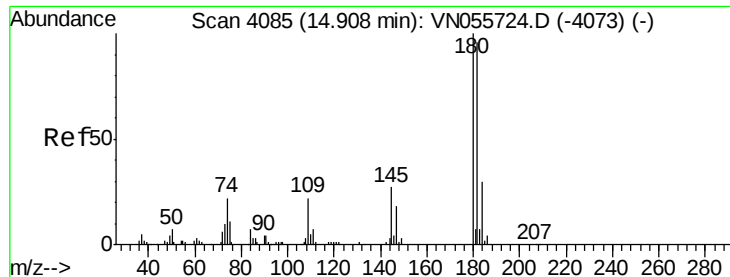


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

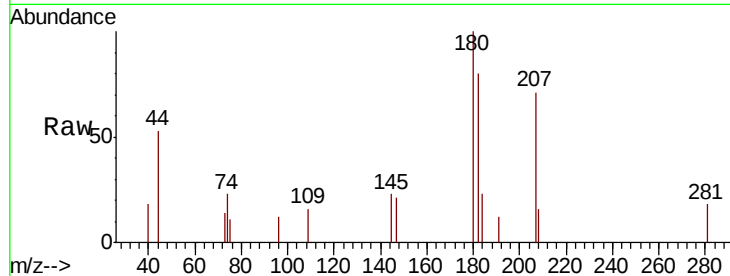




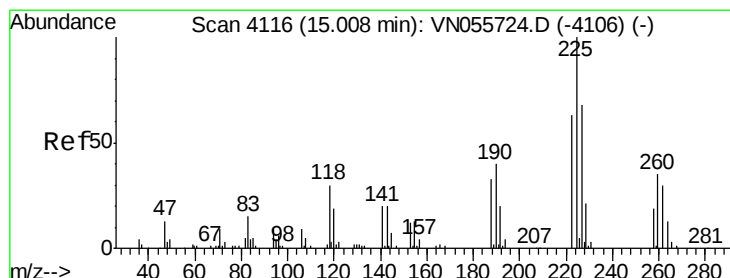
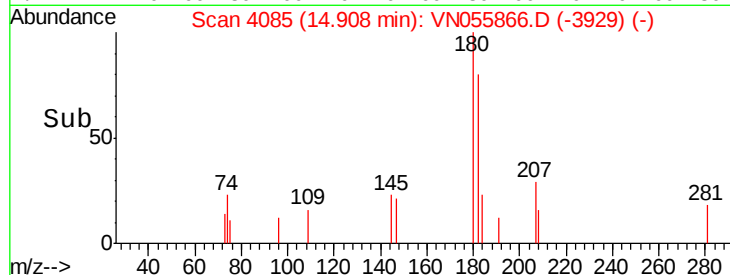
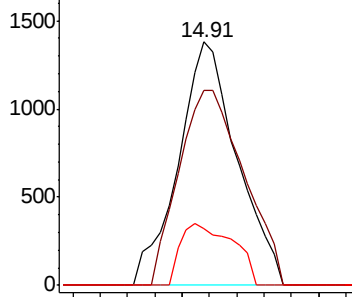
#89
 1,2,4-Trichlorobenzene
 Concen: 0.616 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBL01

Tot Ion:180 Resp: 2061
 Ion Ratio Lower Upper
 180 100
 182 88.7 76.1 114.1
 145 22.9 21.8 32.8

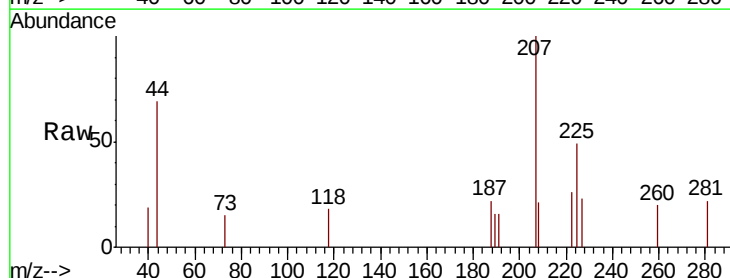


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

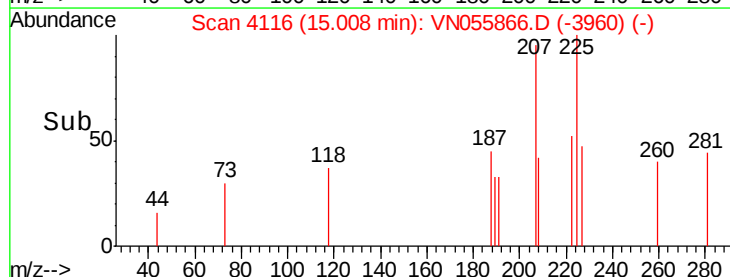
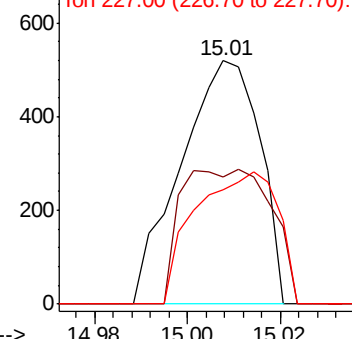


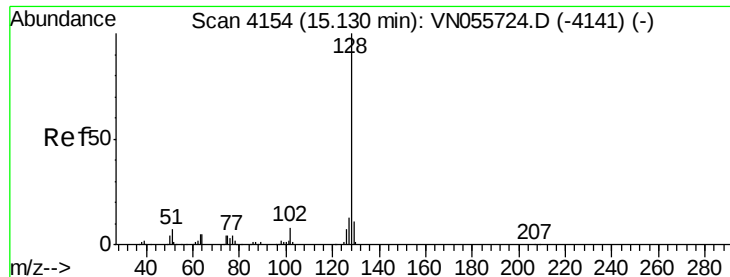
#90
 Hexachlorobutadiene
 Concen: 0.246 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055866.D
 Acq: 29 May 2019 10:22

Tgt Ion:225 Resp: 614
 Ion Ratio Lower Upper
 225 100
 223 33.6 0.0 126.0
 227 57.0 0.0 133.0



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.545 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

Instrument :

MSVOA_N

ClientSampleId :

VN0529WBL01

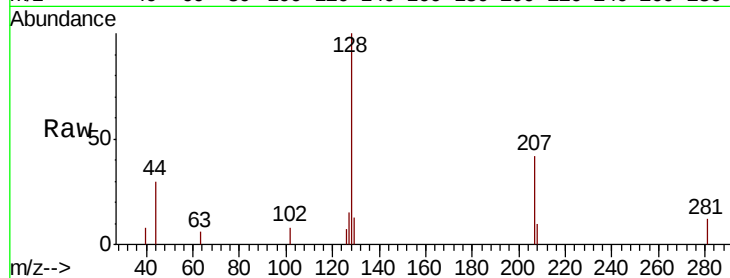
Tot Ion:128 Resp: 4982

Ion Ratio Lower Upper

128 100

127 9.7 10.0 15.0#

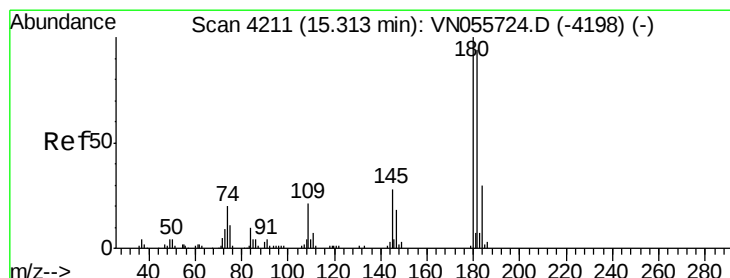
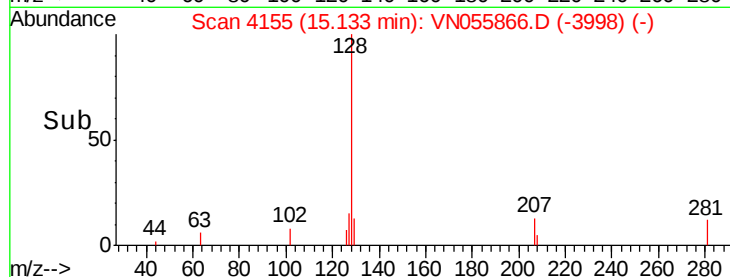
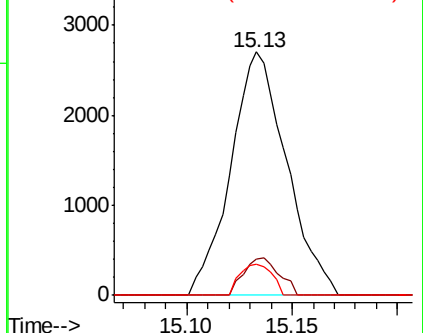
129 7.3 8.7 13.1#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.763 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055866.D

Acq: 29 May 2019 10:22

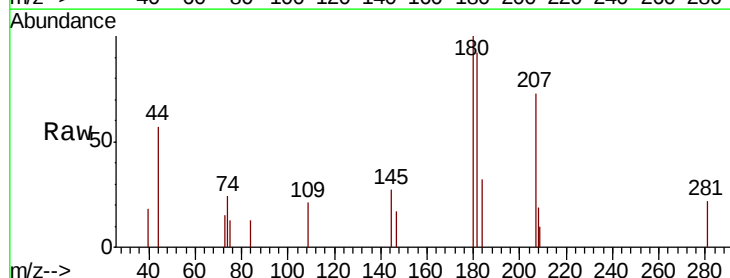
Tgt Ion:180 Resp: 2665

Ion Ratio Lower Upper

180 100

182 86.9 0.0 188.6

145 21.7 0.0 56.8



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

