

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056767.D
 Acq On : 16 Jul 2019 14:36
 Operator : JC/SP
 Sample : PB121398ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#07

Quant Time: Jul 17 01:09:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	268798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	489382	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	525792	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	196768	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	159788	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
35) Dibromofluoromethane	7.59	113	145097	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.09	98	622130	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	12.40	95	230939	58.22	ug/l	0.00
Spiked Amount			Recovery	=	116.44%	

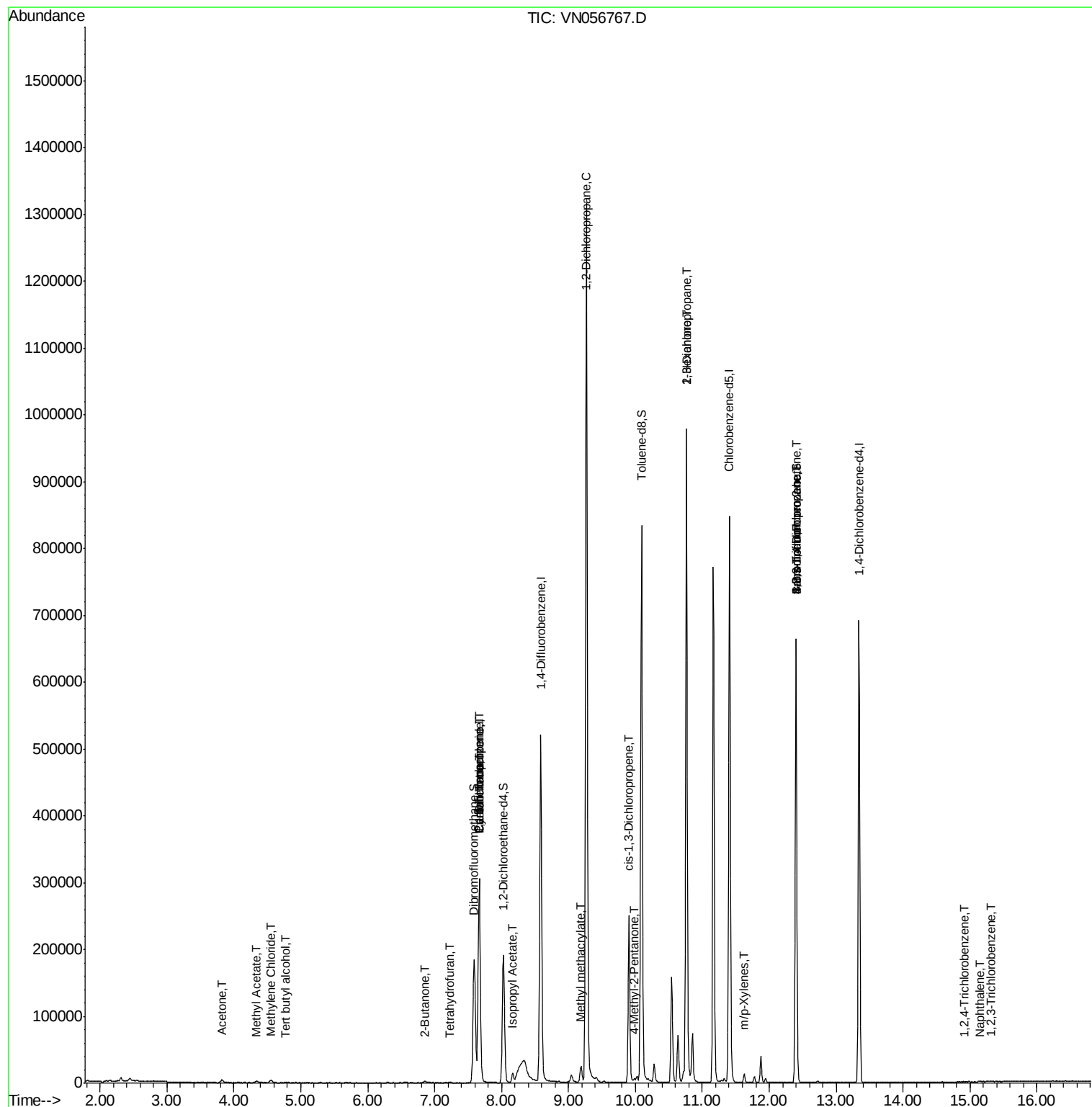
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	212	0.428	ug/l #	73
16) Acetone	3.82	43	8568	6.253	ug/l	95
18) Methyl Acetate	4.34	43	5499	0.830	ug/l #	70
20) Methylene Chloride	4.55	84	2890	0.965	ug/l #	80
25) 2-Butanone	6.85	43	4783	2.388	ug/l	98
29) Tetrahydrofuran	7.22	42	526	0.403	ug/l #	60
31) Cyclohexane	7.67	56	4192	0.882	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18025	3.980	ug/l #	48
38) Carbon Tetrachloride	7.67	117	23258	5.476	ug/l #	15
43) Isopropyl Acetate	8.17	43	16845	2.401	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1681	0.456	ug/l #	45
48) Methyl methacrylate	9.18	41	8772	2.585	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	3851	0.847	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	47232	8.985	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	9885	1.751	ug/l #	42
59) 2-Hexanone	10.76	43	141016	43.244	ug/l #	51
68) m/p-Xylenes	11.63	106	3901	0.552	ug/l	98
71) Bromoform	12.40	173	1850	0.614	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	106518	24.751	ug/l #	100
79) 2-Chlorotoluene	12.68	91	103	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	106518	76.439	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	316	3.768	ug/l #	66
95) Naphthalene	15.13	128	1251	4.634	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	532	3.453	ug/l #	21

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

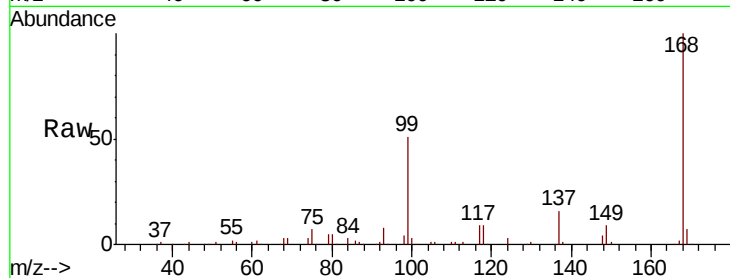
PB121398ZHE#07

Tot Ion:168 Resp: 268798

Ion Ratio Lower Upper

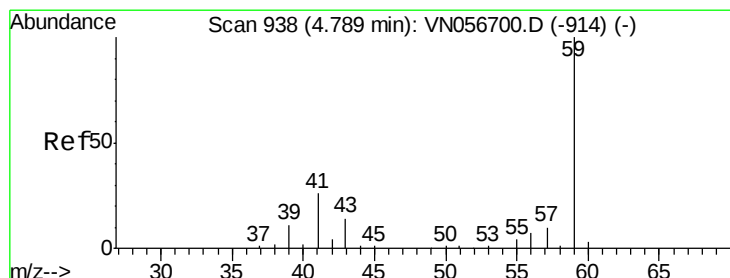
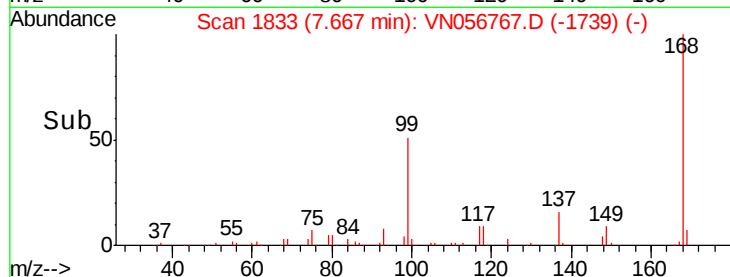
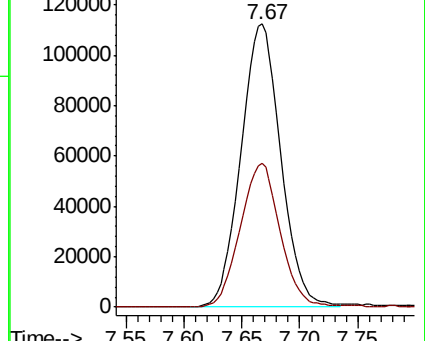
168 100

99 50.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.428 ug/l

RT: 4.79 min Scan# 938

Delta R.T. 0.00 min

Lab File: VN056767.D

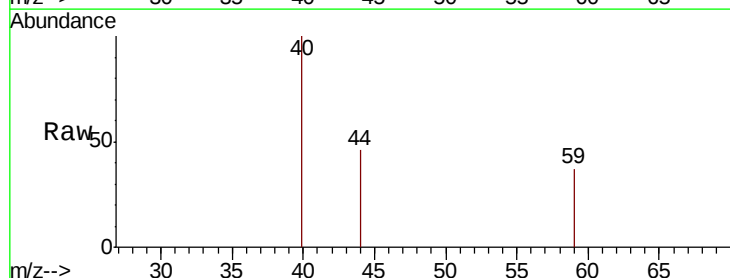
Acq: 16 Jul 2019 14:36

Tgt Ion: 59 Resp: 212

Ion Ratio Lower Upper

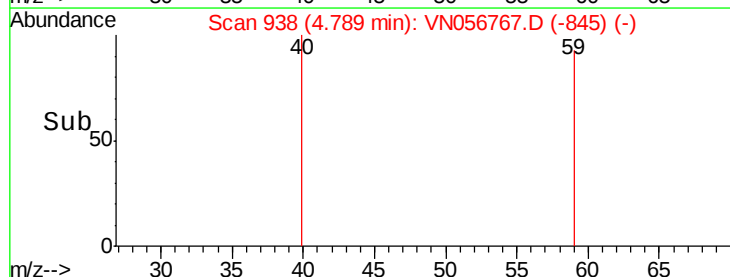
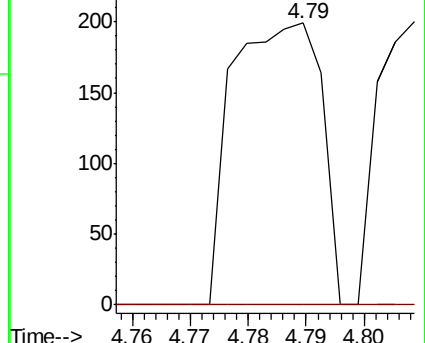
59 100

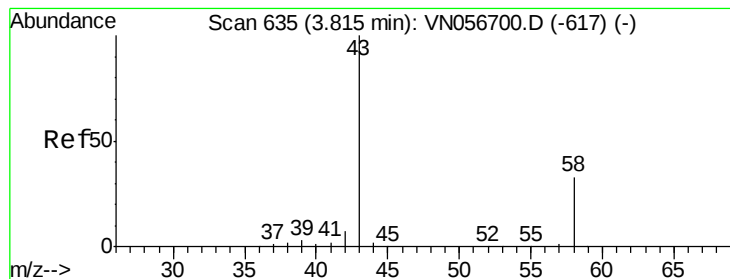
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 6.253 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

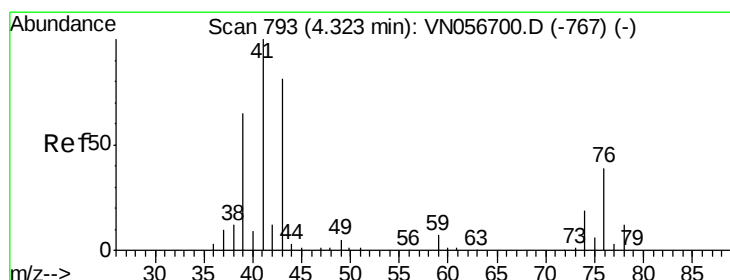
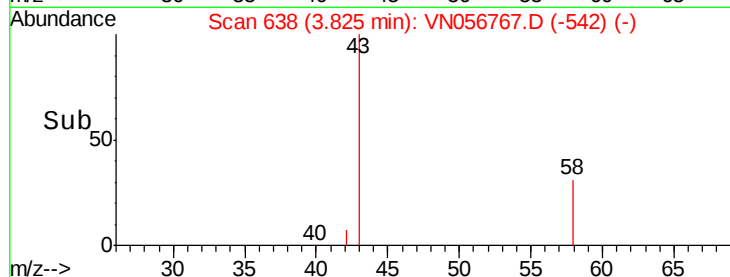
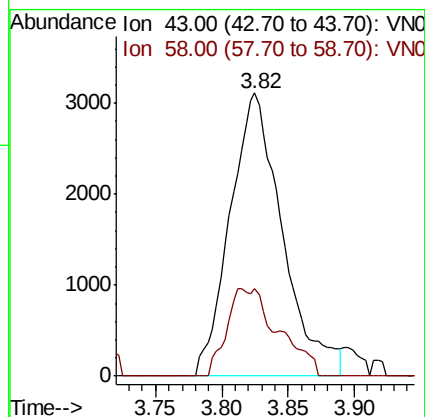
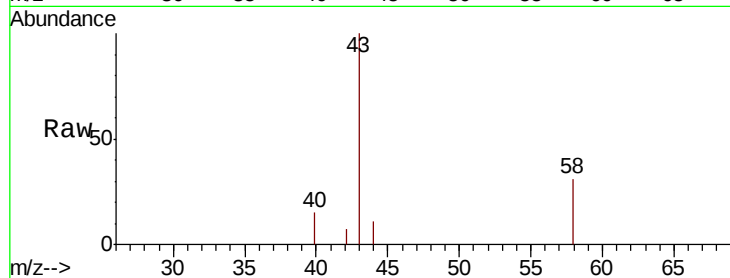
PB121398ZHE#07

Tot Ion: 43 Resp: 8568

Ion Ratio Lower Upper

43 100

58 30.8 26.7 40.1



#18

Methyl Acetate

Concen: 0.830 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056767.D

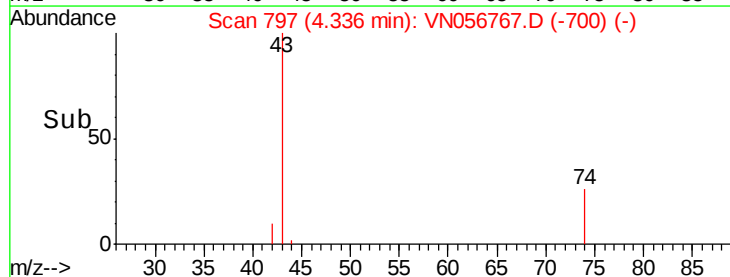
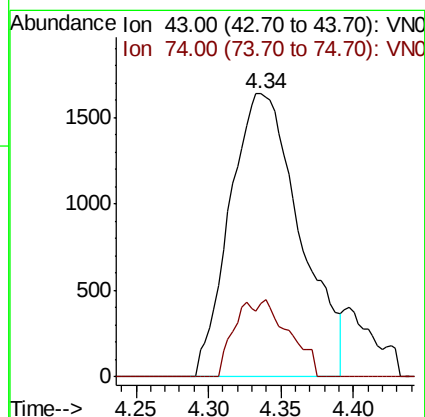
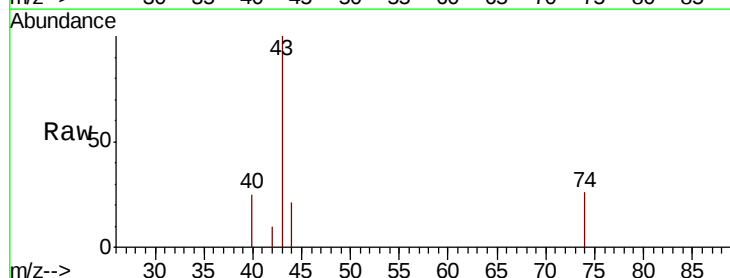
Acq: 16 Jul 2019 14:36

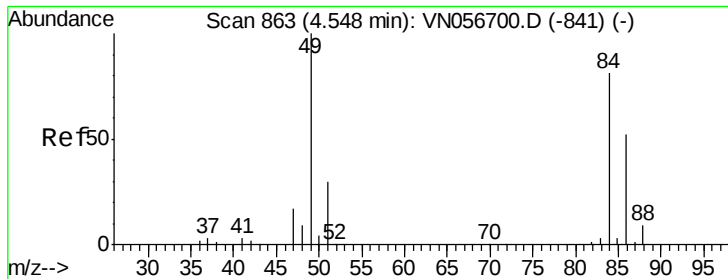
Tgt Ion: 43 Resp: 5499

Ion Ratio Lower Upper

43 100

74 8.9 18.9 28.3#

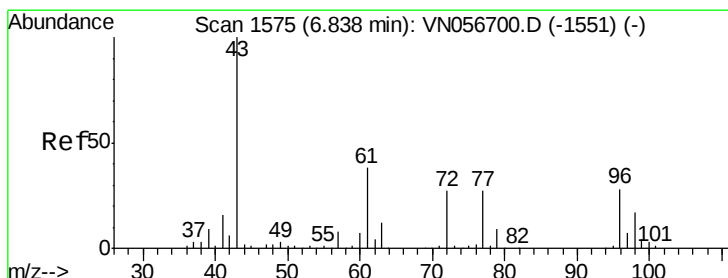
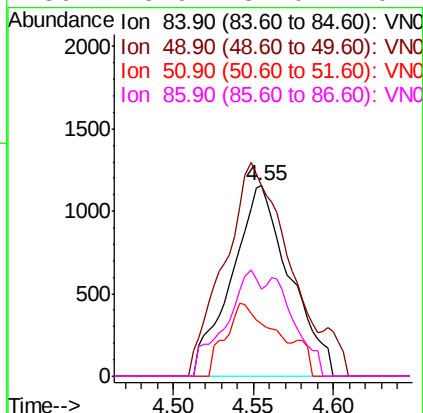
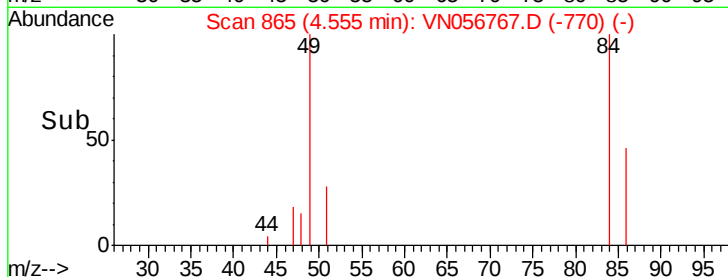
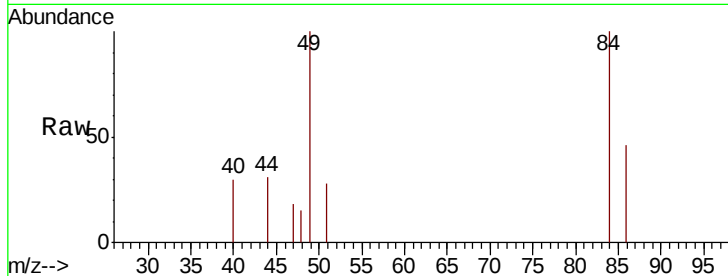




#20
Methvlene Chloride
Concen: 0.965 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

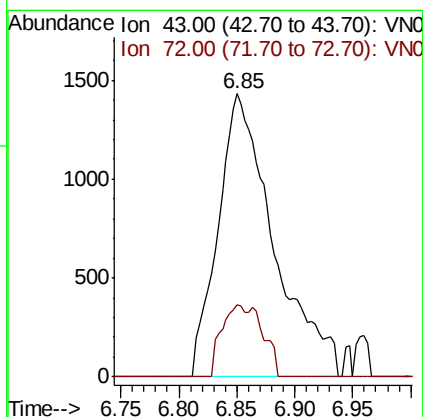
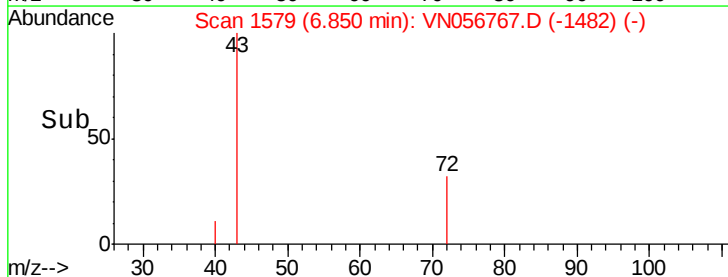
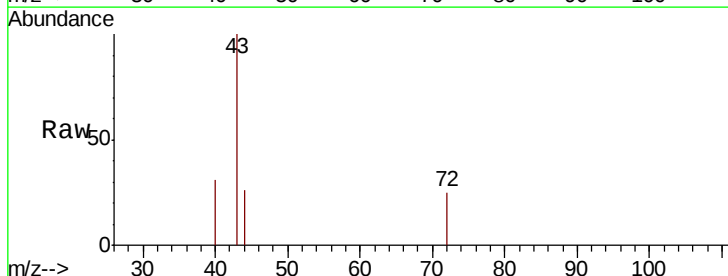
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#07

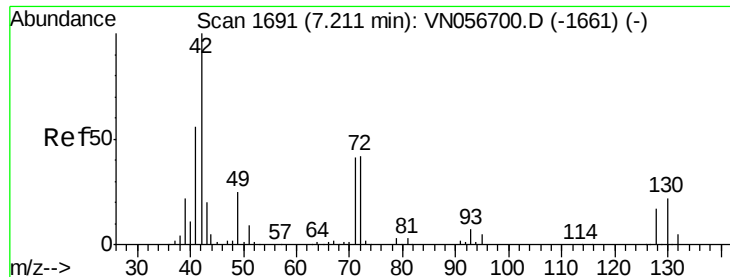
Tot Ion: 84 Resp: 2890
Ion Ratio Lower Upper
84 100
49 100.3 98.2 147.4
51 27.9 29.6 44.4#
86 45.9 51.0 76.4#



#25
2-Butanone
Concen: 2.388 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Tgt Ion: 43 Resp: 4783
Ion Ratio Lower Upper
43 100
72 25.3 21.2 31.8





#29

Tetrahydrofuran

Concen: 0.403 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#07

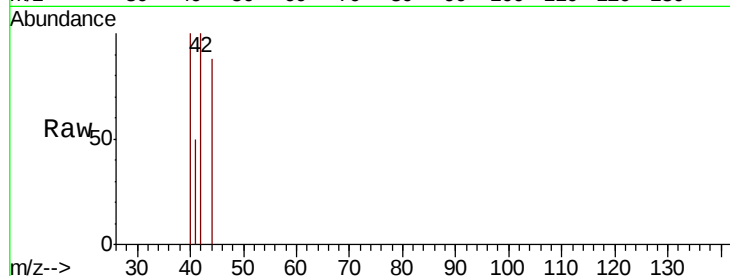
Tot Ion: 42 Resp: 526

Ion Ratio Lower Upper

42 100

72 19.2 33.5 50.3#

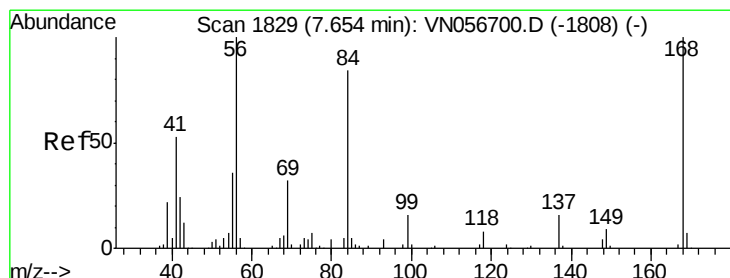
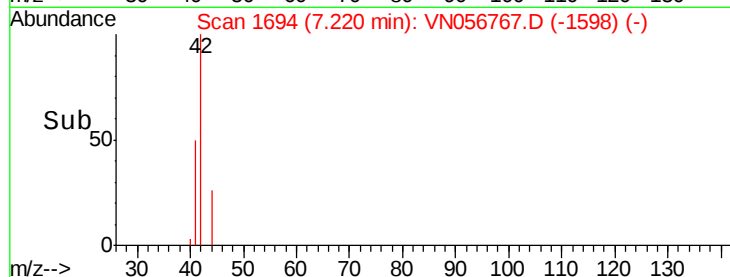
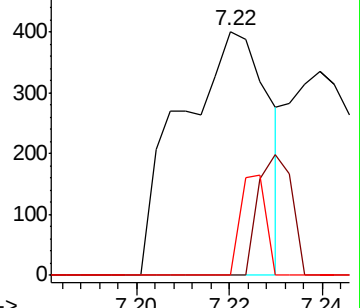
71 12.0 31.8 47.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.882 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

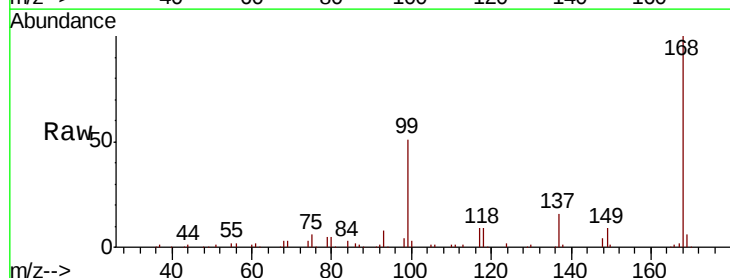
Tgt Ion: 56 Resp: 4192

Ion Ratio Lower Upper

56 100

69 185.9 25.8 38.8#

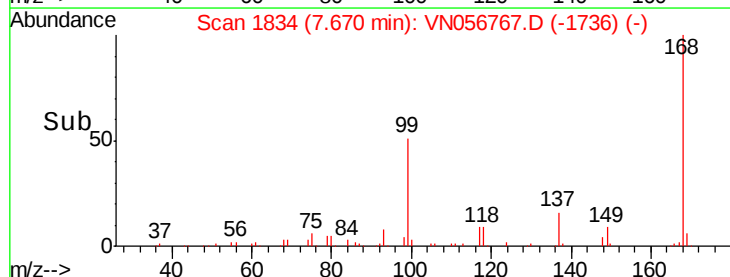
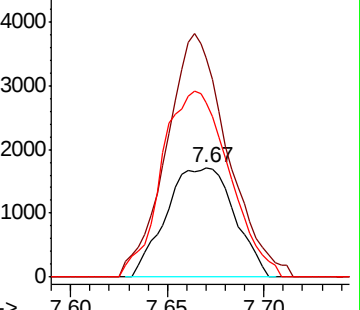
84 149.4 67.4 101.0#

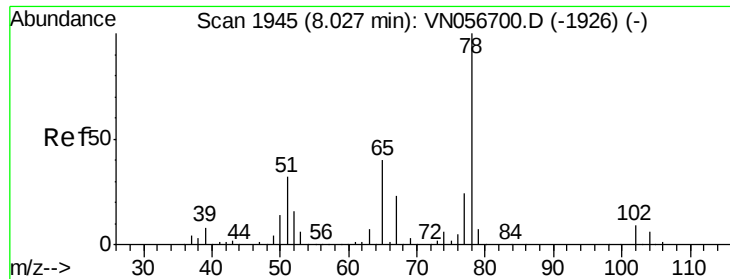


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

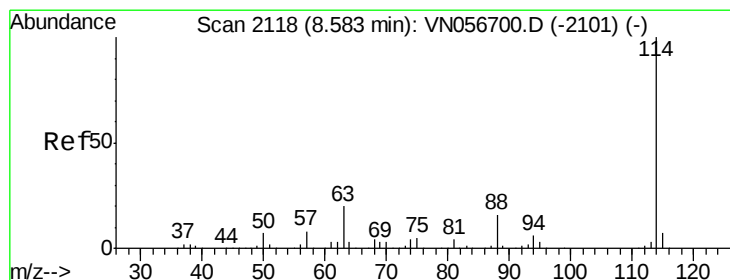
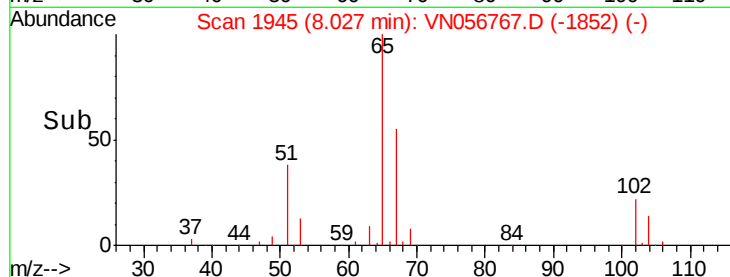
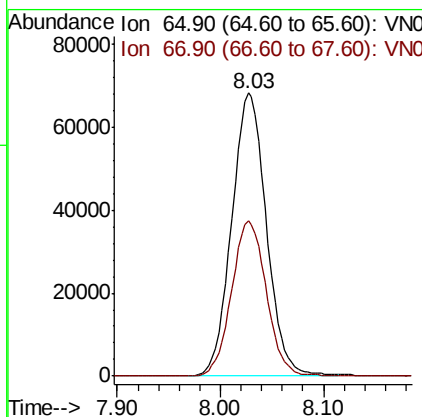
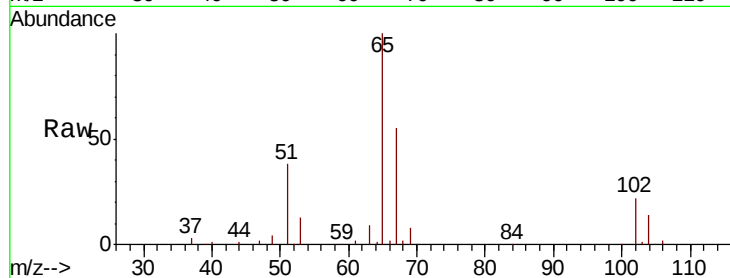




#33
 1,2-Dichloroethane-d4
 Concen: 53.741 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

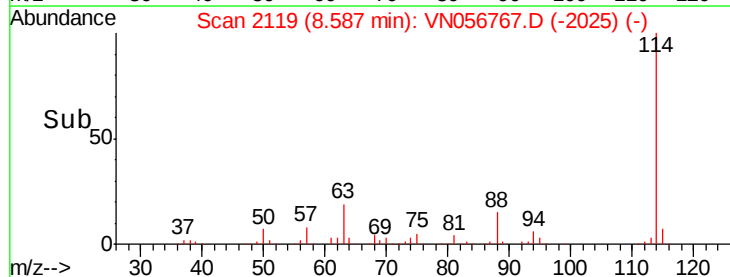
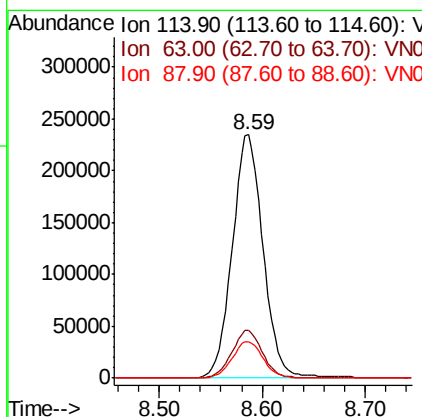
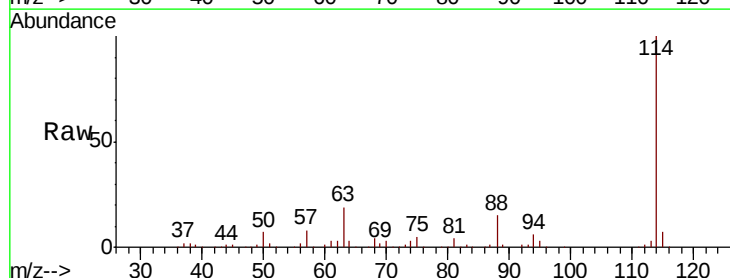
Instrument :
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 PB121398ZHE#07

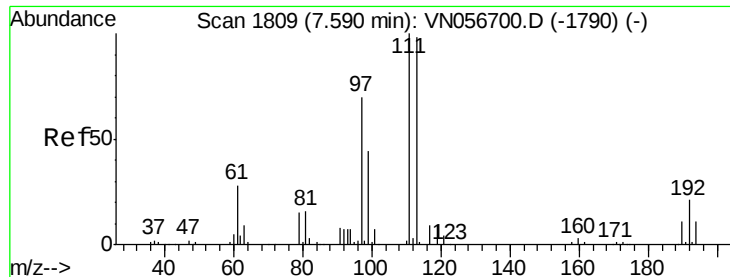
Tot Ion: 65 Resp: 159788
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

Tgt Ion: 114 Resp: 489382
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.4
 88 15.0 0.0 31.2

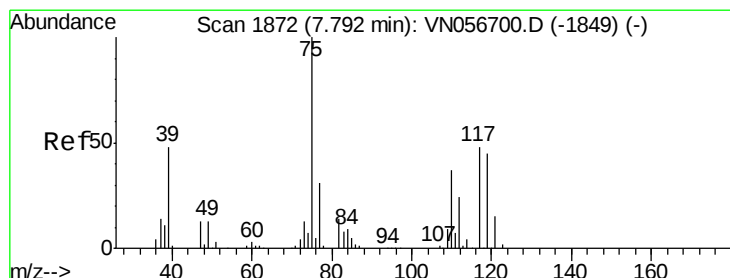
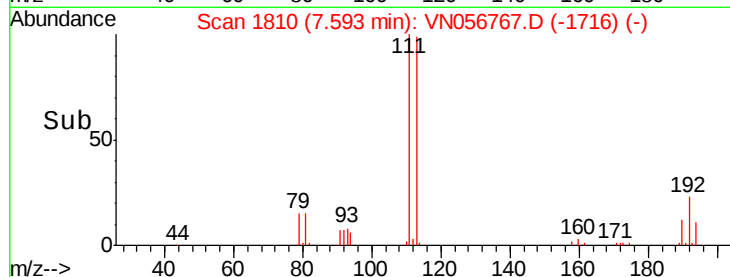
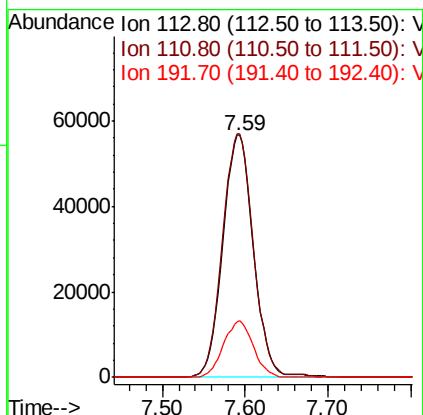
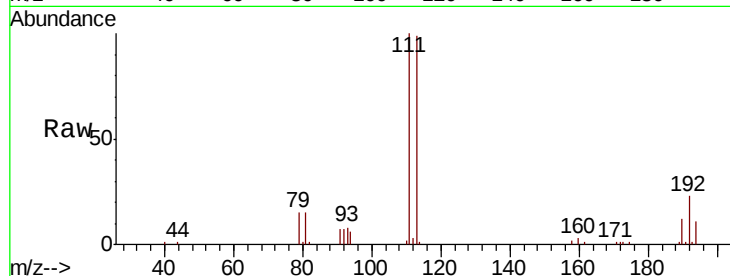




#35
 Dibromofluoromethane
 Concen: 47.643 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

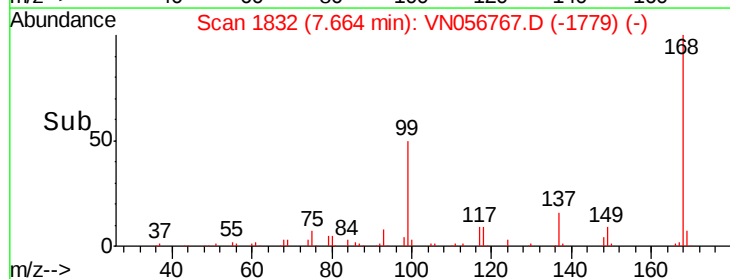
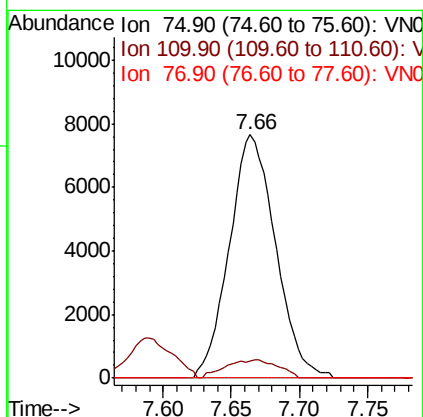
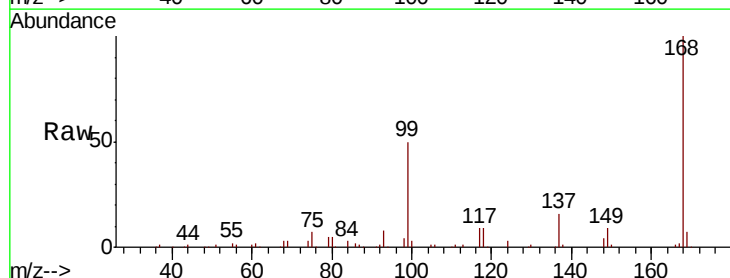
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#07

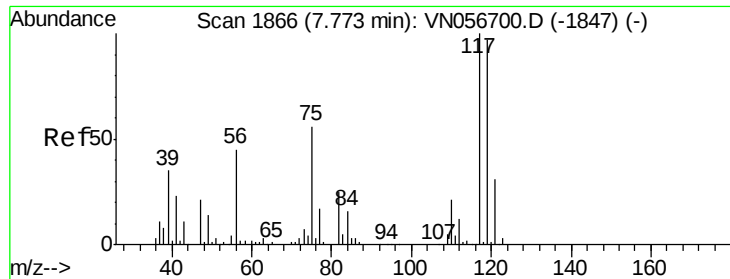
Tot Ion:113 Resp: 145097
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.8 122.6
 192 22.7 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.980 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

Tgt Ion: 75 Resp: 18025
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.4 55.4#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.476 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#07

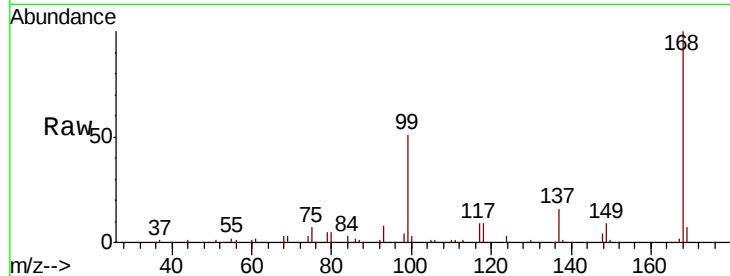
Tot Ion:117 Resp: 23258

Ion Ratio Lower Upper

117 100

119 4.4 77.5 116.3#

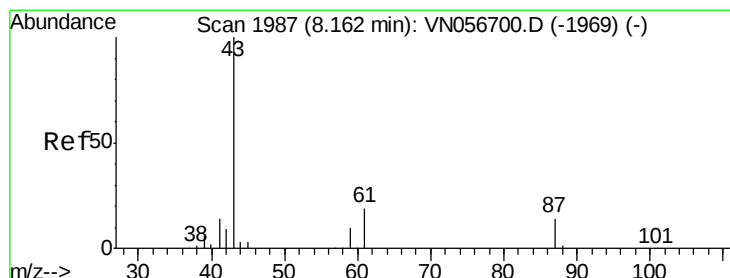
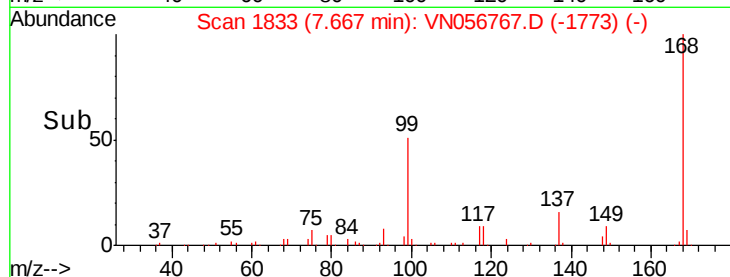
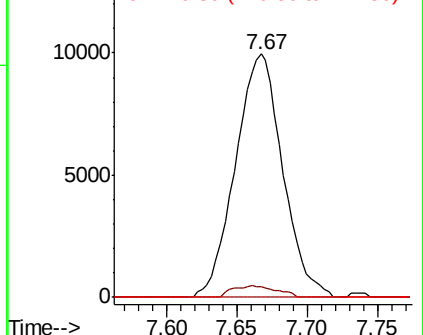
121 0.0 24.7 37.1#



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: 2.401 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

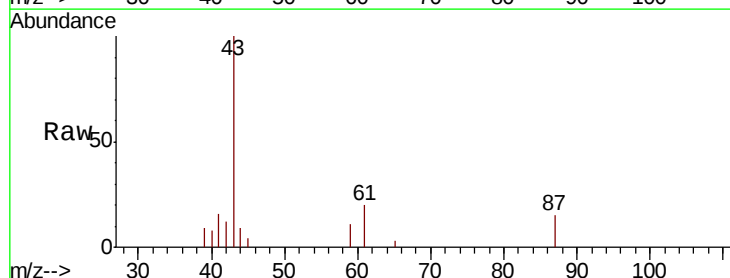
Tgt Ion: 43 Resp: 16845

Ion Ratio Lower Upper

43 100

61 21.0 22.3 33.5#

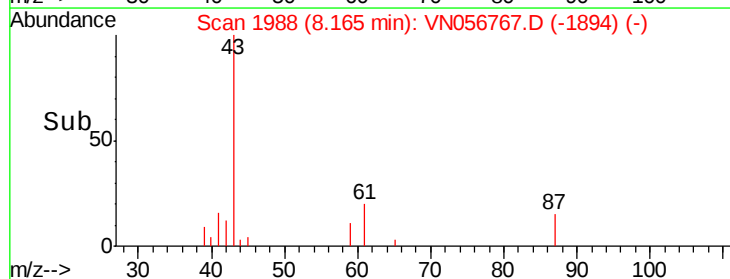
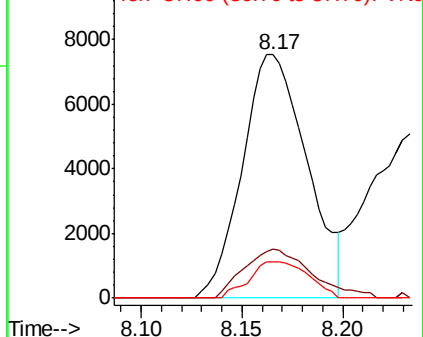
87 13.6 11.1 16.7

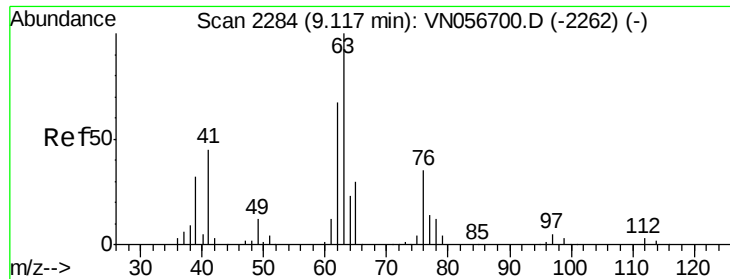


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

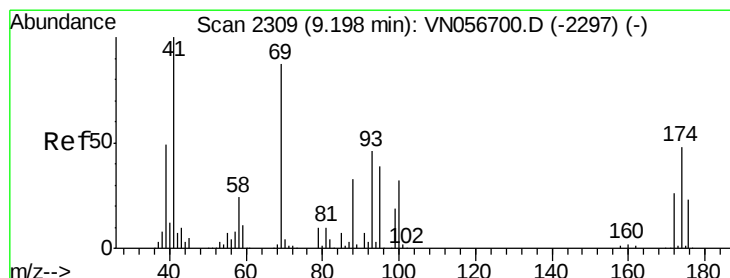
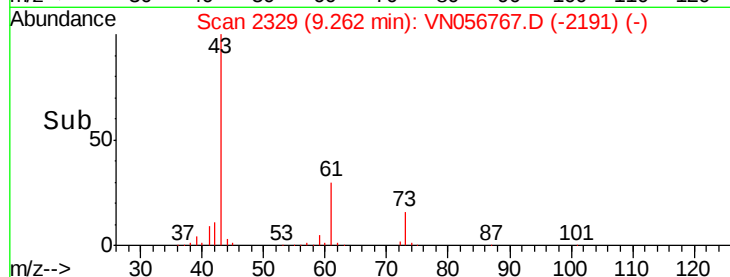
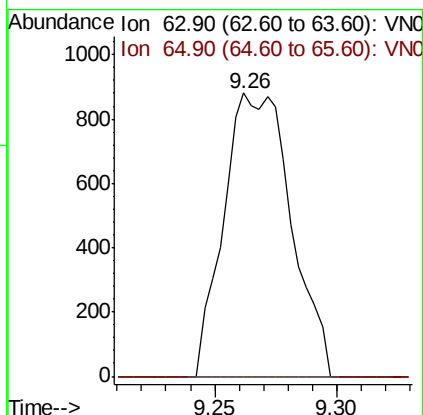
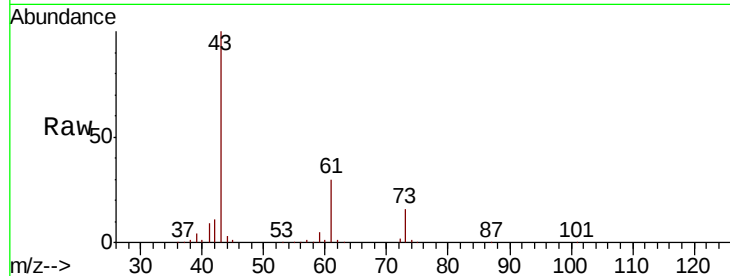




#45
 1,2-Dichloropropane
 Concen: 0.456 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

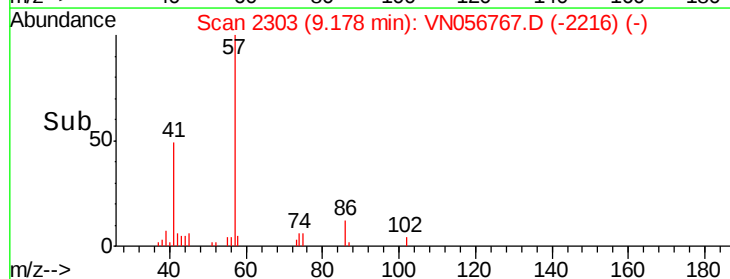
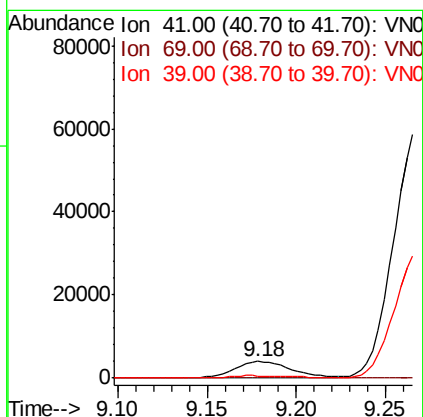
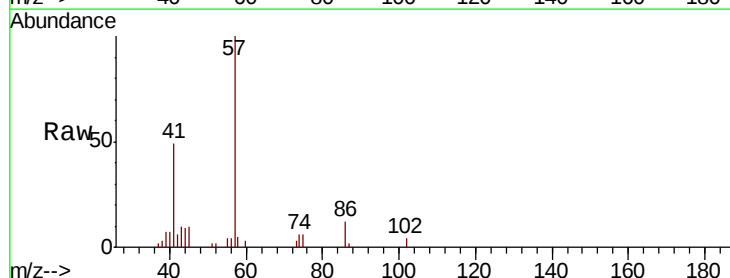
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#07

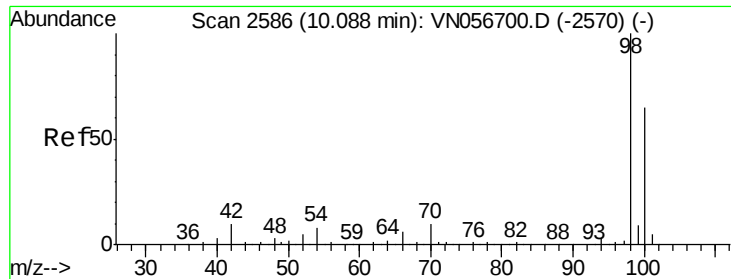
Tot Ion: 63 Resp: 1681
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.585 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN056767.D
 Acq: 16 Jul 2019 14:36

Tgt Ion: 41 Resp: 8772
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 0.0 41.2 61.8#





#50

Toluene-d8

Concen: 52.891 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

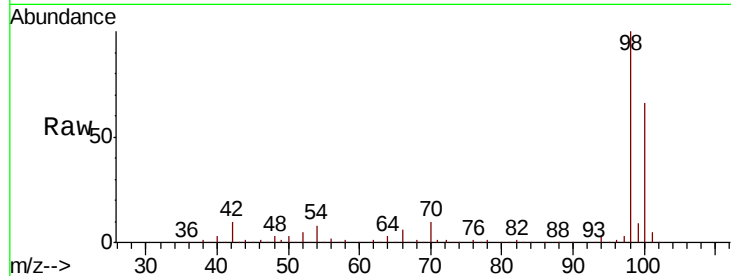
PB121398ZHE#07

Tot Ion: 98 Resp: 622130

Ion Ratio Lower Upper

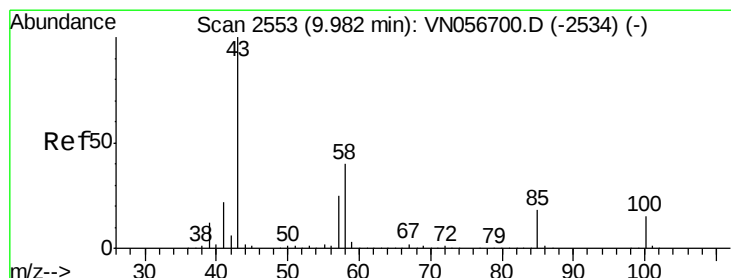
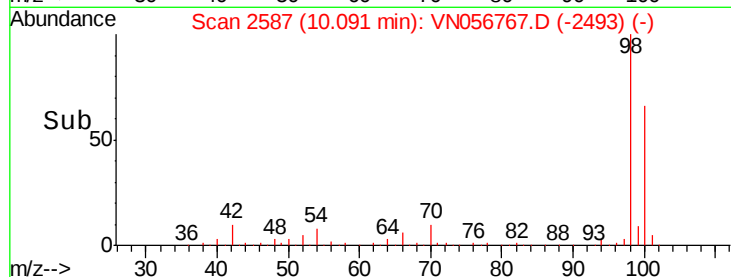
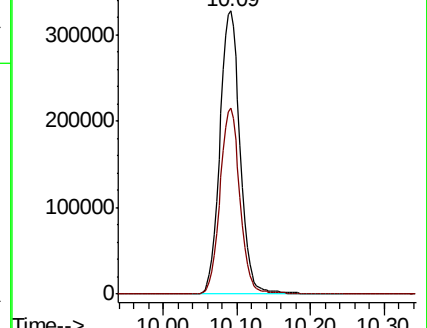
98 100

100 64.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.847 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN056767.D

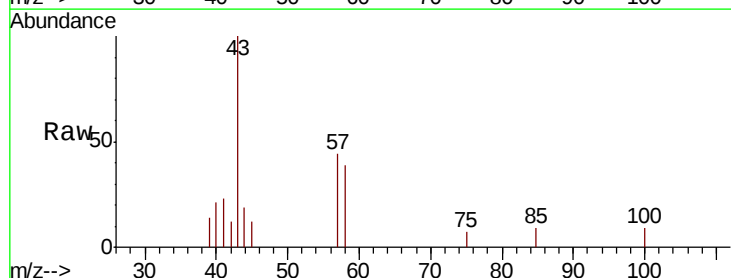
Acq: 16 Jul 2019 14:36

Tgt Ion: 43 Resp: 3851

Ion Ratio Lower Upper

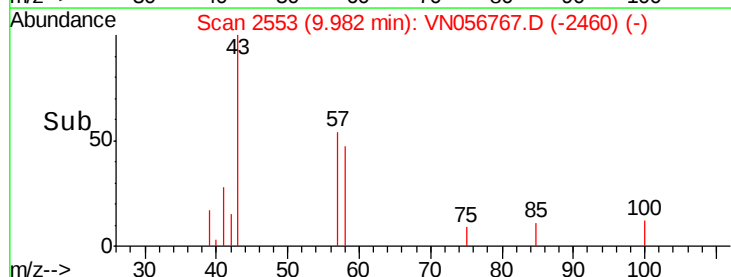
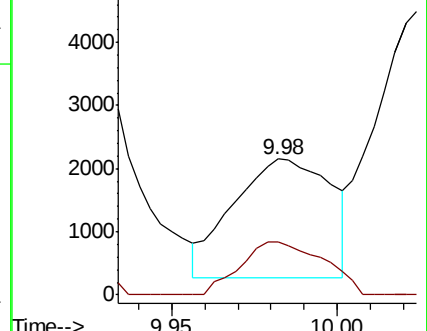
43 100

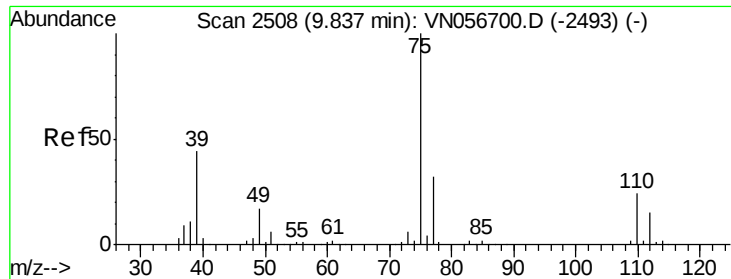
58 38.2 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 8.985 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#07

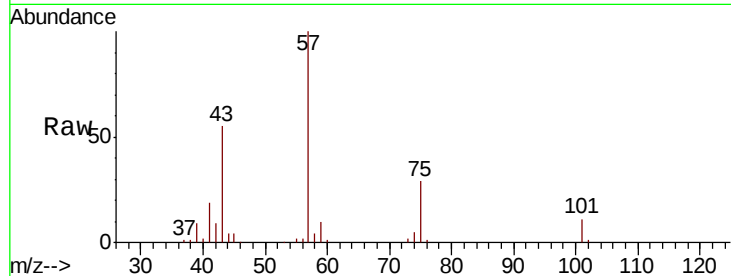
Tot Ion: 75 Resp: 47232

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

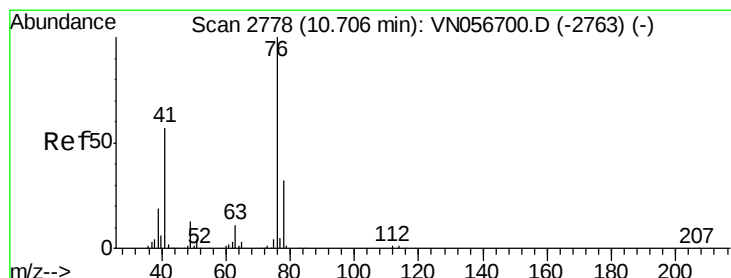
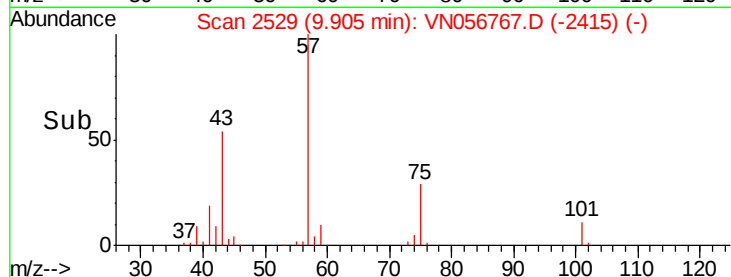
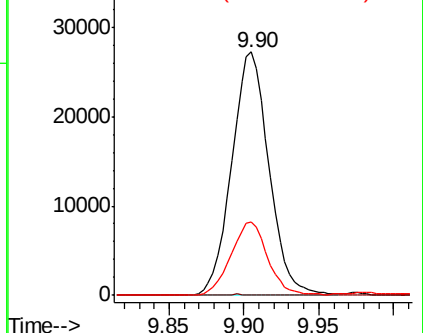
39 30.2 35.1 52.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.751 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056767.D

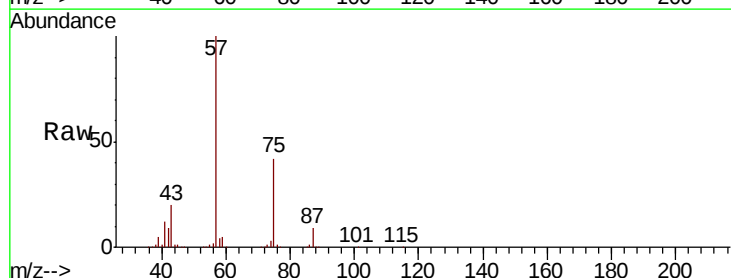
Acq: 16 Jul 2019 14:36

Tgt Ion: 76 Resp: 9885

Ion Ratio Lower Upper

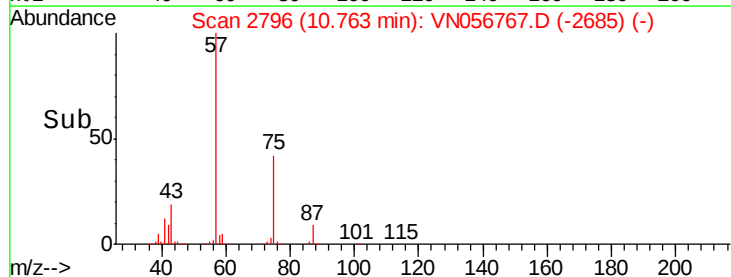
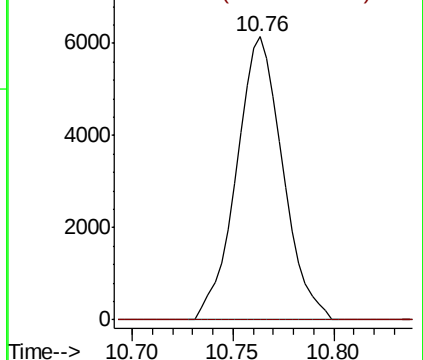
76 100

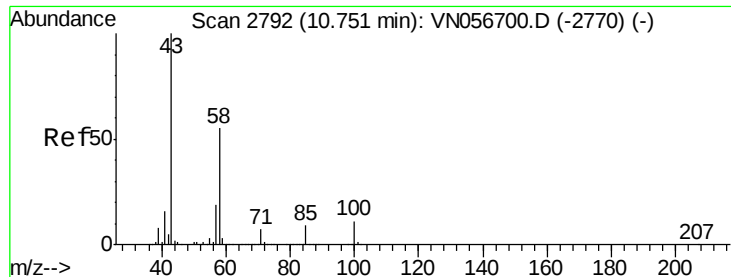
78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

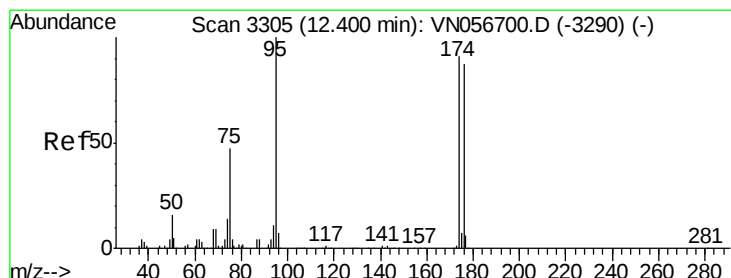
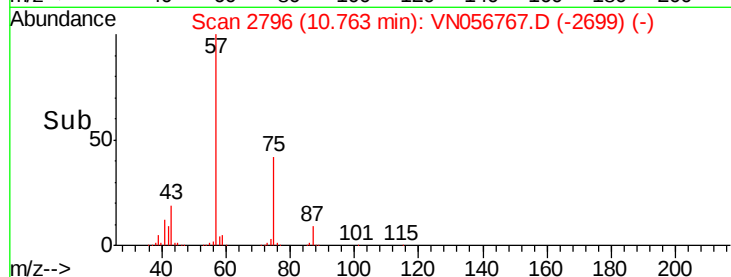
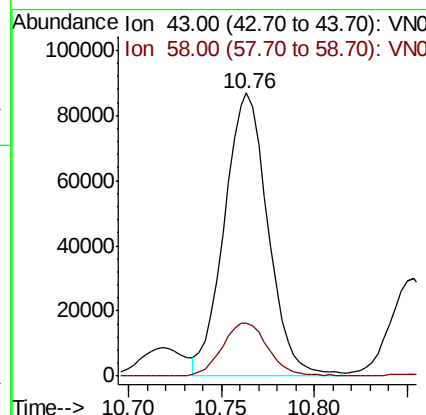
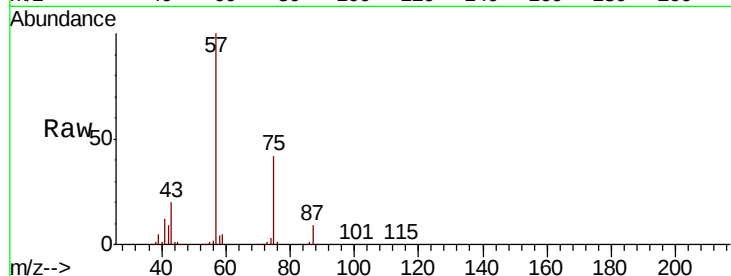




#59
2-Hexanone
Concen: 43.244 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

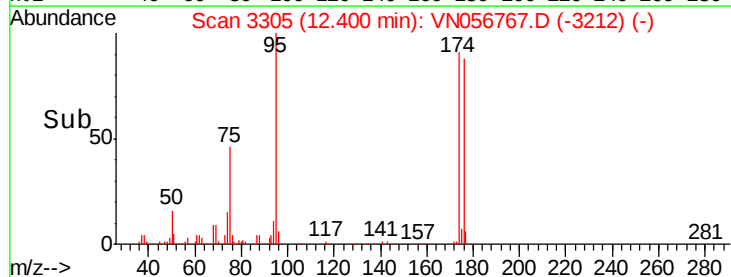
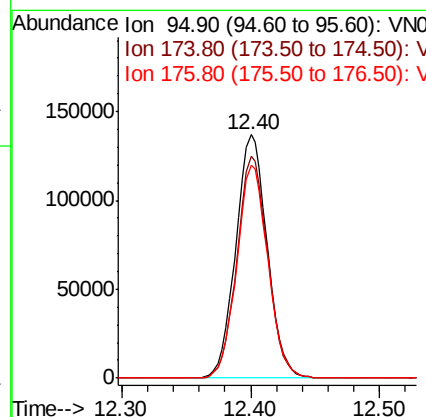
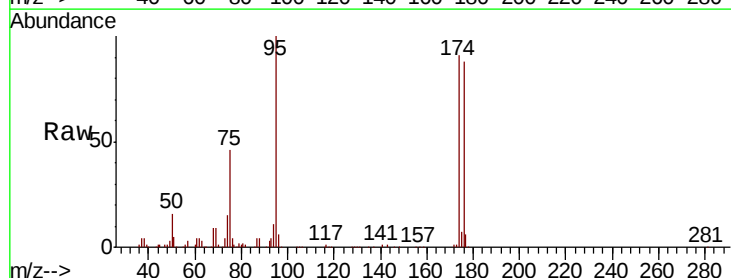
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#07

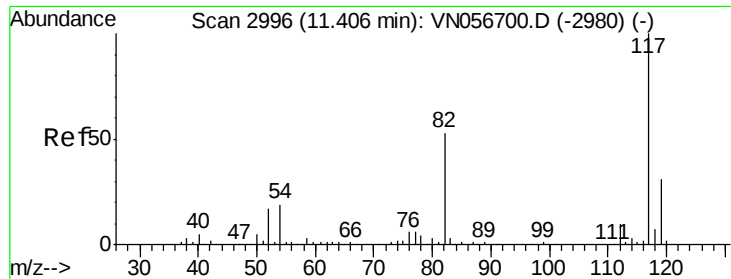
Tot Ion: 43 Resp: 141016
Ion Ratio Lower Upper
43 100
58 19.9 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.219 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Tgt Ion: 95 Resp: 230939
Ion Ratio Lower Upper
95 100
174 90.3 0.0 180.0
176 86.9 0.0 173.2

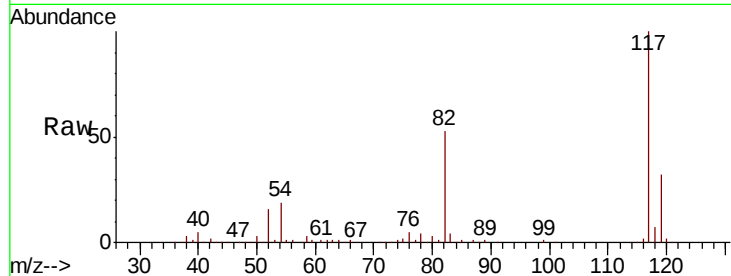




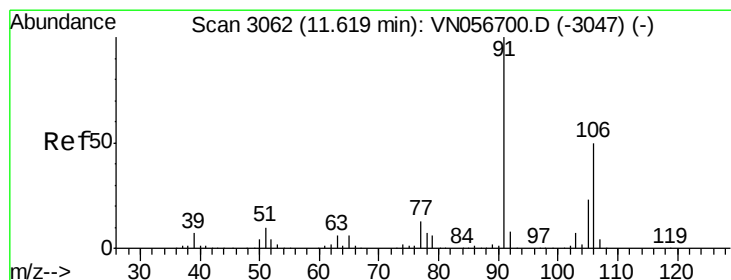
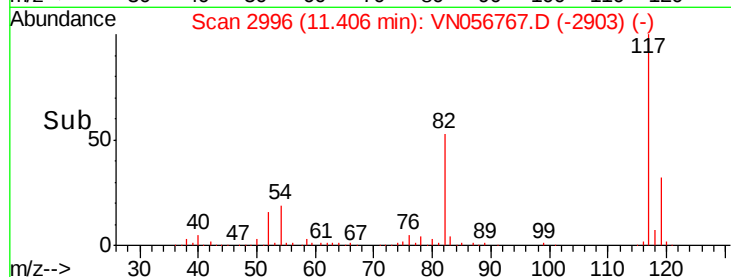
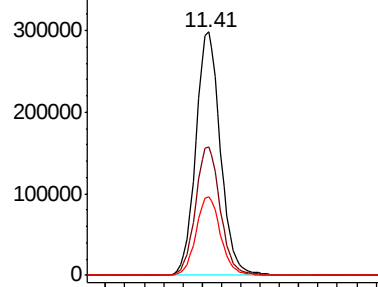
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#07

Tot Ion:117 Resp: 525792
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.2
119 32.2 25.2 37.8

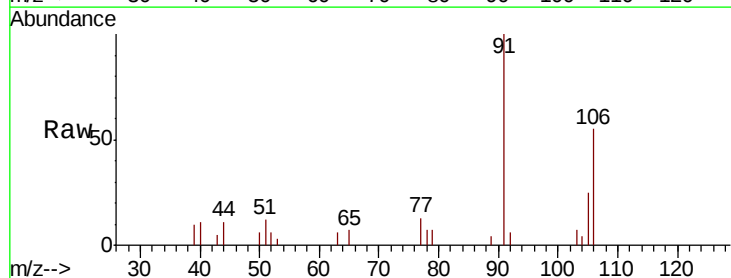


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

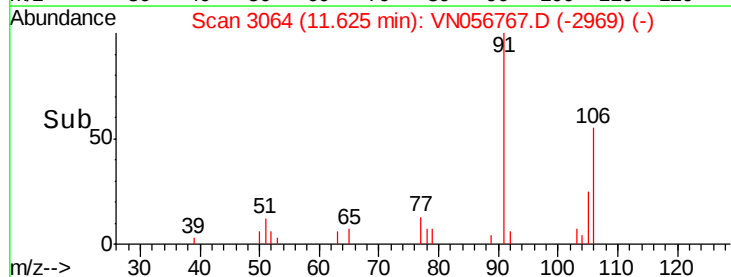
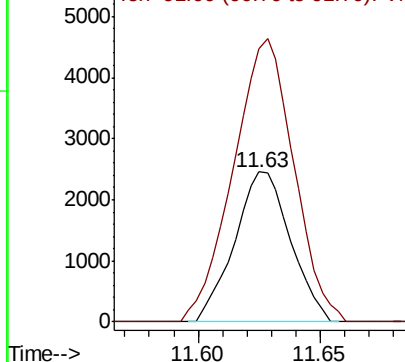


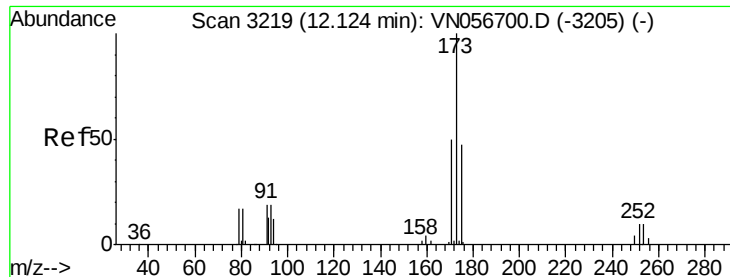
#68
m/p-Xylenes
Concen: 0.552 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.01 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Tgt Ion:106 Resp: 3901
Ion Ratio Lower Upper
106 100
91 204.0 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

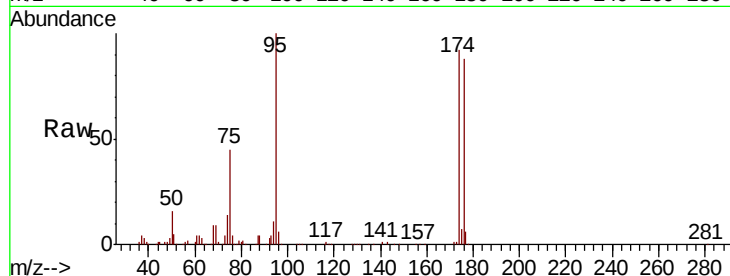




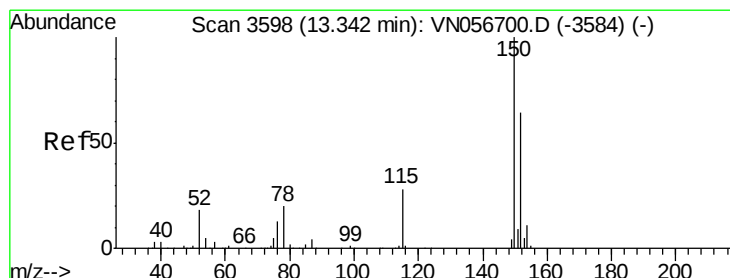
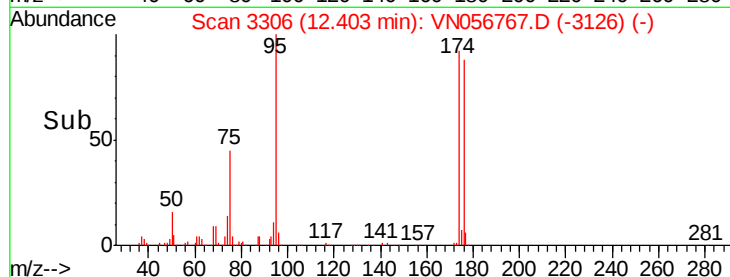
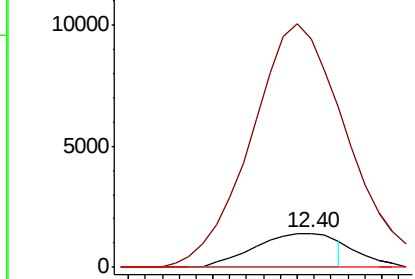
#71
Bromoform
Concen: 0.614 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#07

Tot Ion:173 Resp: 1850
Ion Ratio Lower Upper
173 100
175 712.2 23.8 71.4#
254 0.0 0.0 0.0

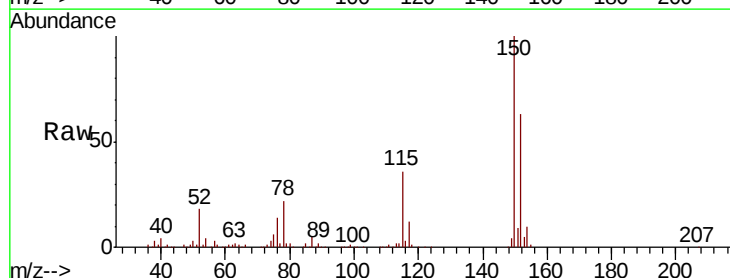


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

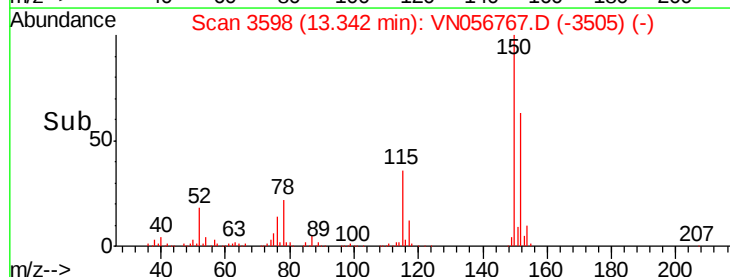
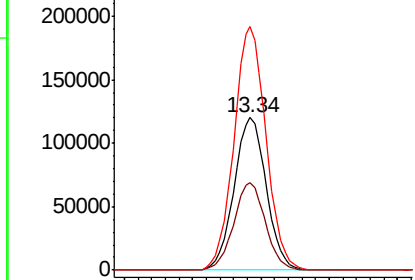


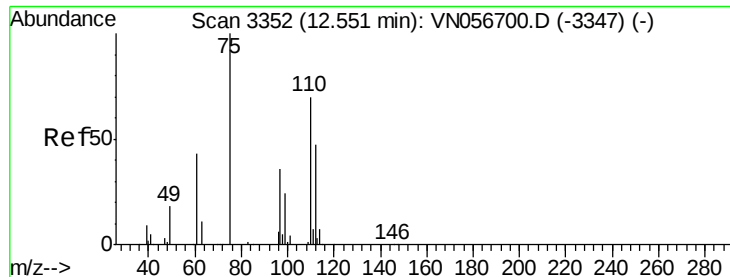
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056767.D
Acq: 16 Jul 2019 14:36

Tgt Ion:152 Resp: 196768
Ion Ratio Lower Upper
152 100
115 56.2 28.2 84.7
150 158.4 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.751 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

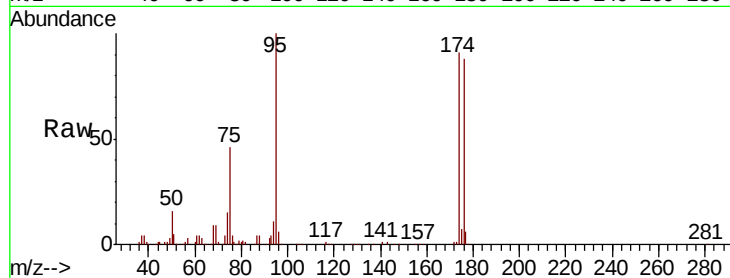
PB121398ZHE#07

Tot Ion: 75 Resp: 106518

Ion Ratio Lower Upper

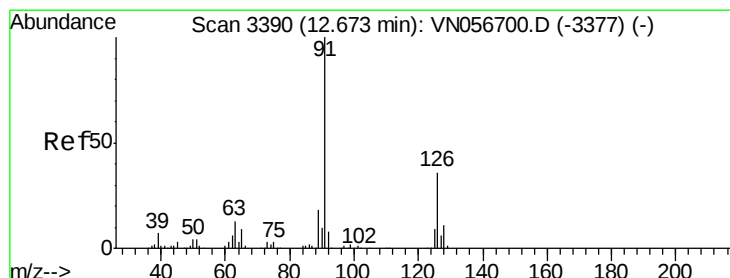
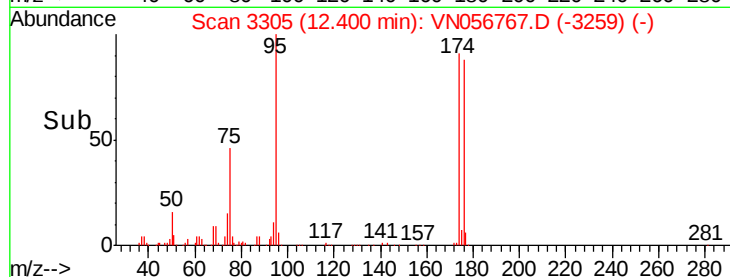
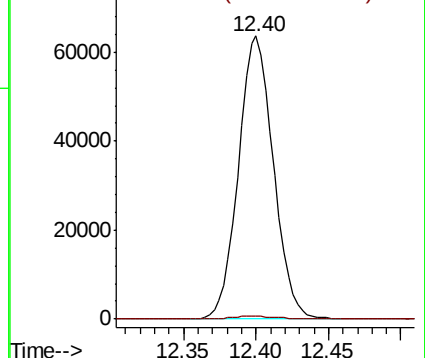
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056767.D

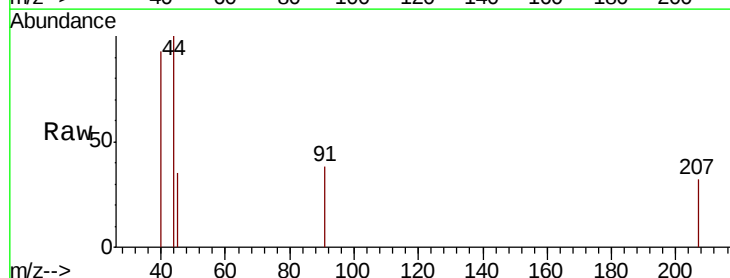
Acq: 16 Jul 2019 14:36

Tgt Ion: 91 Resp: 103

Ion Ratio Lower Upper

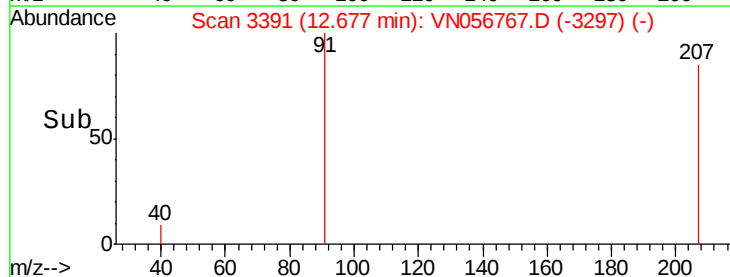
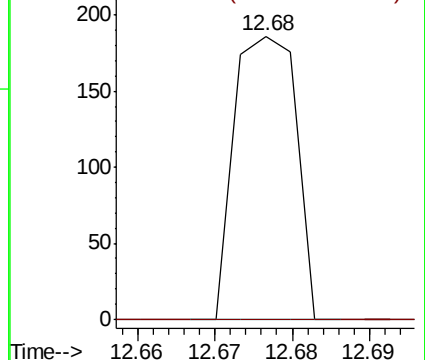
91 100

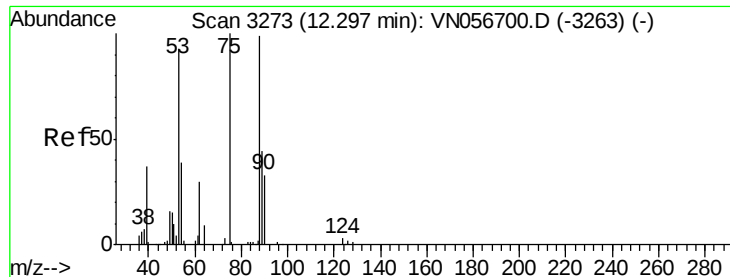
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.439 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#07

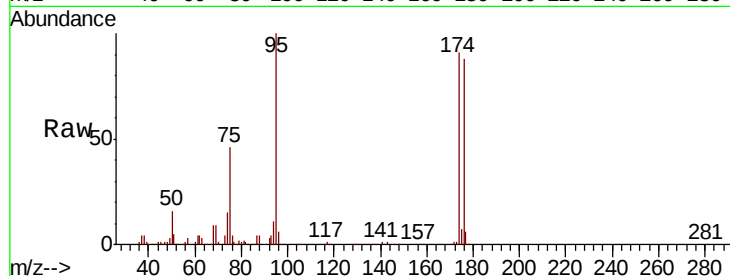
Tot Ion: 75 Resp: 106518

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

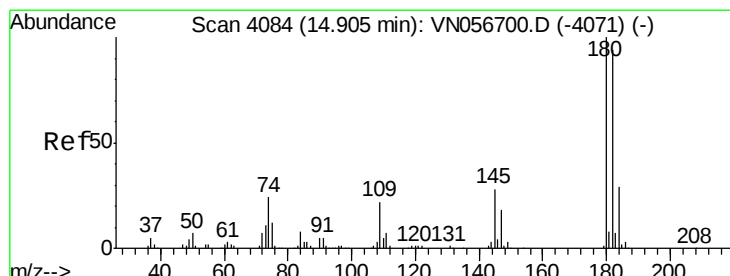
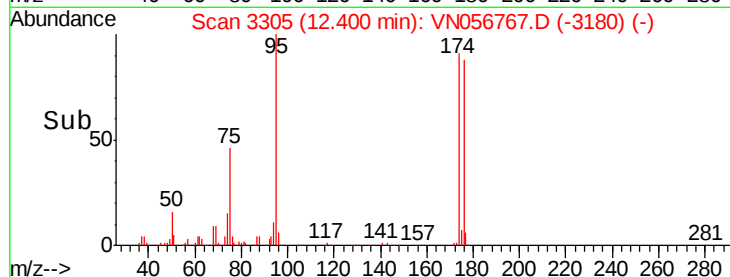
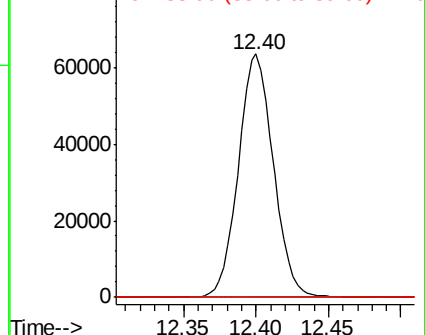
89 0.0 36.2 54.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.768 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

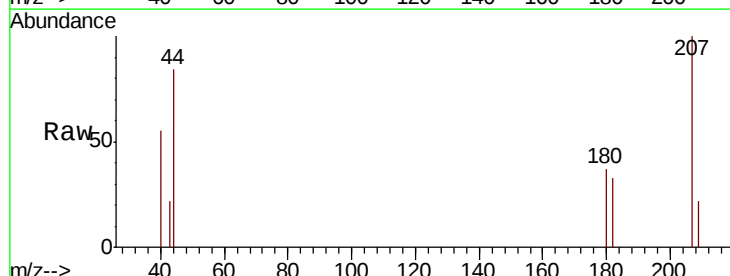
Tgt Ion: 180 Resp: 316

Ion Ratio Lower Upper

180 100

182 66.8 47.2 141.6

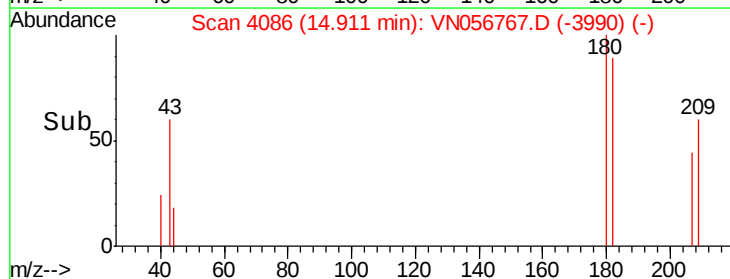
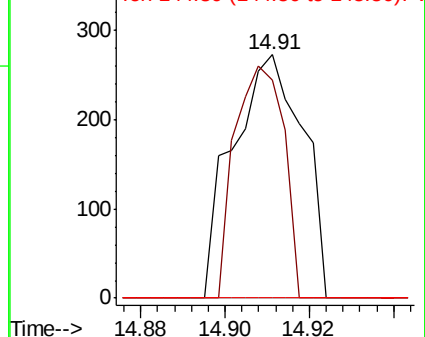
145 0.0 14.2 42.8#

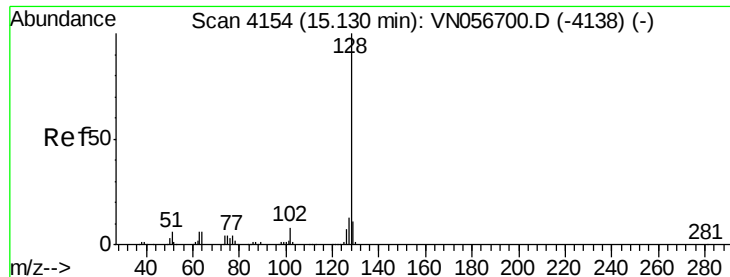


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.634 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#07

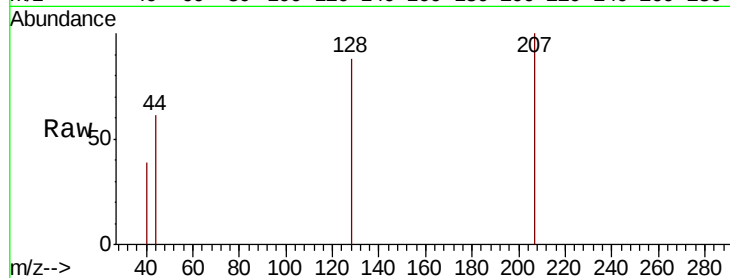
Tot Ion:128 Resp: 1251

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

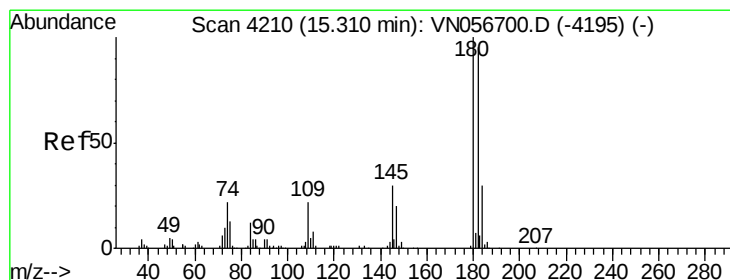
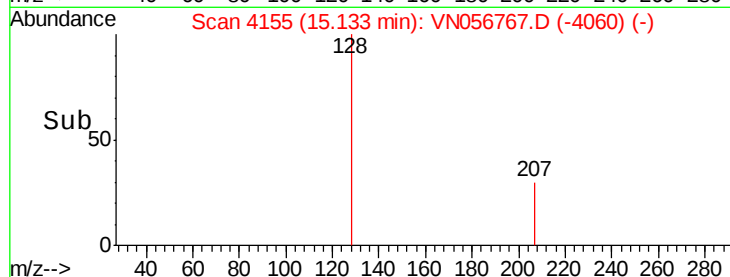
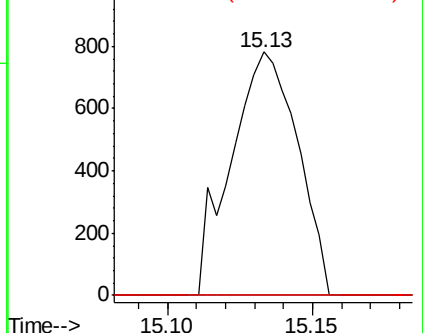
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.453 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN056767.D

Acq: 16 Jul 2019 14:36

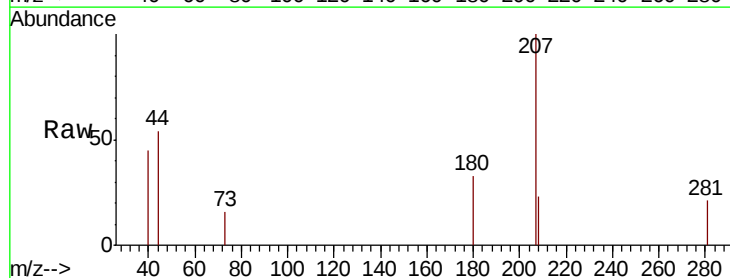
Tgt Ion:180 Resp: 532

Ion Ratio Lower Upper

180 100

182 11.1 47.1 141.3#

145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

