

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011619\
 Data File : VN053430.D
 Acq On : 16 Jan 2019 17:28
 Operator : JC/SP
 Sample : PB116405ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116405ZHE#13

Quant Time: Jan 17 03:57:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	949530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1505136	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1445352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	647609	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	499726	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
35) Dibromofluoromethane	7.59	113	439346	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
50) Toluene-d8	10.09	98	1888249	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	12.40	95	664524	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	

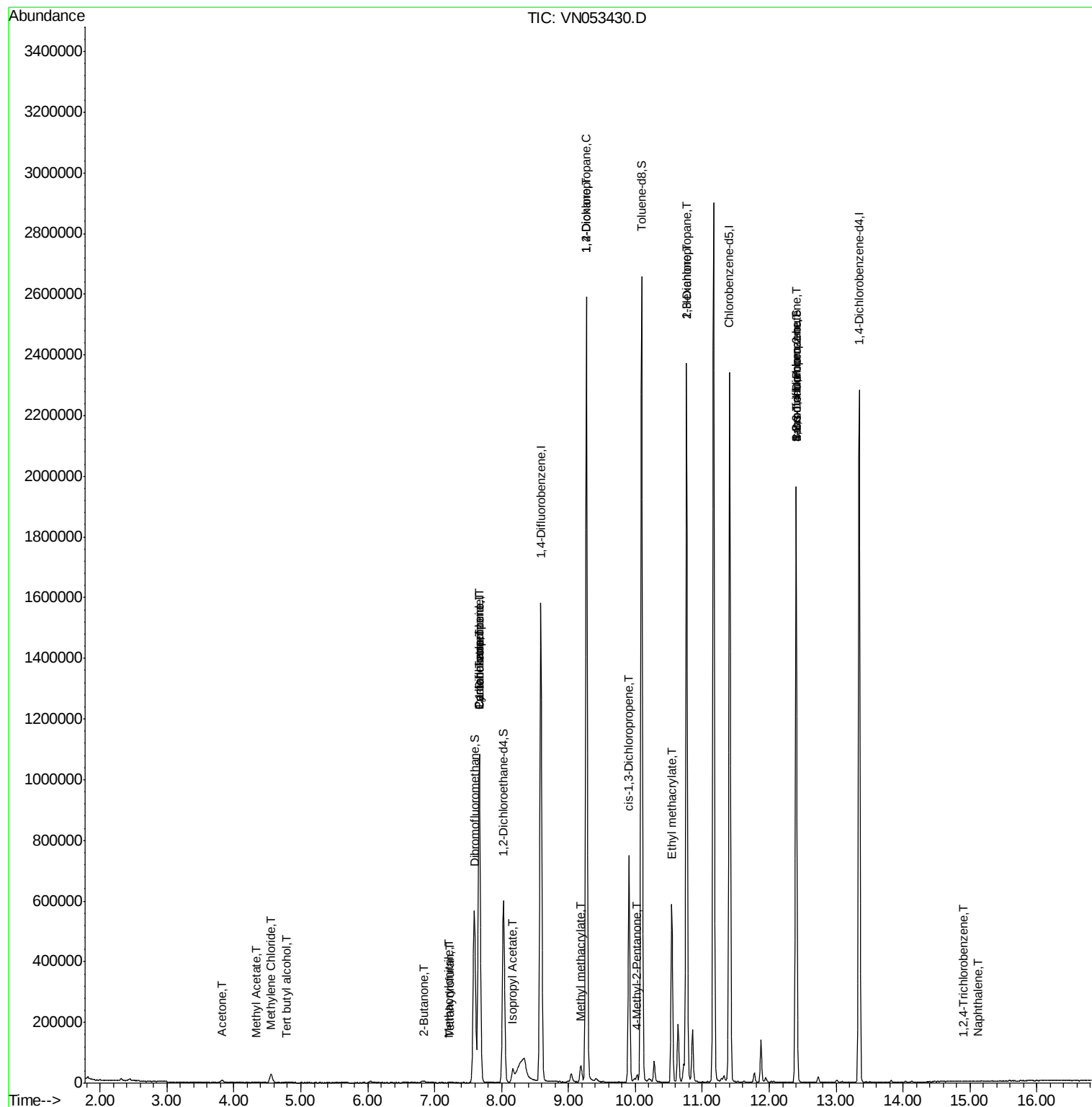
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	622	1.354	ug/l #	72
16) Acetone	3.83	43	13597	6.175	ug/l	92
18) Methyl Acetate	4.33	43	4190	0.565	ug/l #	63
20) Methylene Chloride	4.55	84	21614	2.150	ug/l	90
25) 2-Butanone	6.84	43	7238	2.133	ug/l	93
29) Tetrahydrofuran	7.22	42	1617	0.732	ug/l #	66
31) Cyclohexane	7.66	56	15270	0.705	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	61754	4.505	ug/l #	48
38) Carbon Tetrachloride	7.67	117	81851	6.307	ug/l #	16
41) Methacrylonitrile	7.21	41	543	0.782	ug/l #	23
43) Isopropyl Acetate	8.17	43	60437	4.262	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	3449	0.313	ug/l #	43
48) Methyl methacrylate	9.18	41	21393	2.922	ug/l #	21
49) 1,4-Dioxane	9.26	88	157	2.196	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21756	2.810	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	139353	8.798	ug/l #	61
56) Ethyl methacrylate	10.54	69	2139	2.220	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	25625	1.661	ug/l #	43
59) 2-Hexanone	10.76	43	337282	62.067	ug/l #	49
71) Bromoform	12.40	173	4396	0.600	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	311759	36.530	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	311759	90.299	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.90	180	64	2.773	ug/l #	12
95) Naphthalene	15.12	128	289	3.956	ug/l #	69

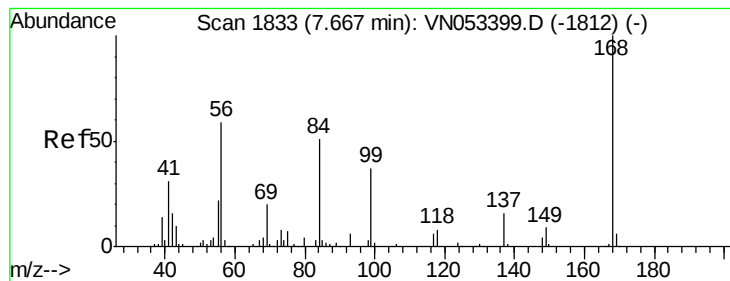
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

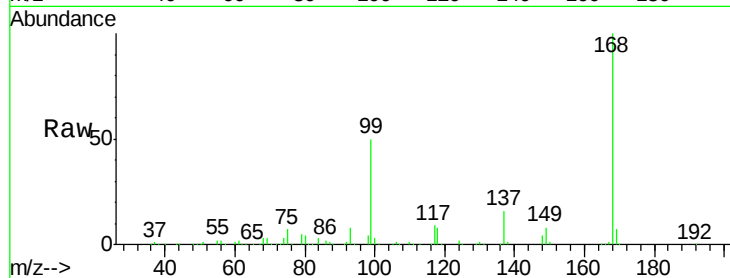
PB116405ZHE#13

Tot Ion:168 Resp: 949530

Ion Ratio Lower Upper

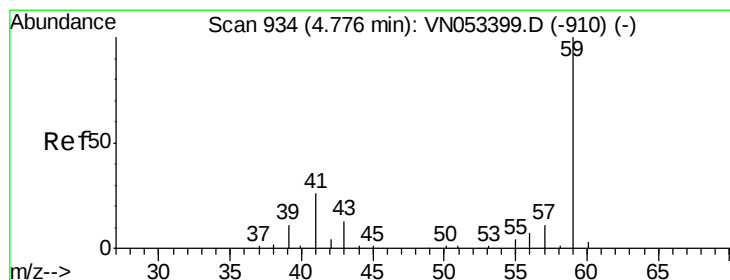
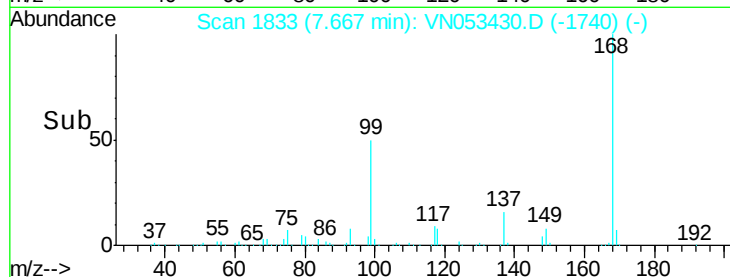
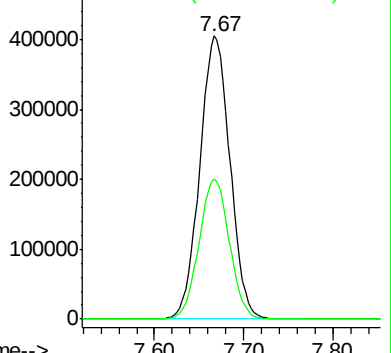
168 100

99 49.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.354 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053430.D

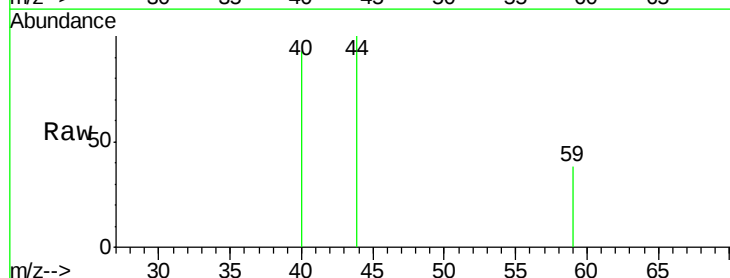
Acq: 16 Jan 2019 17:28

Tgt Ion: 59 Resp: 622

Ion Ratio Lower Upper

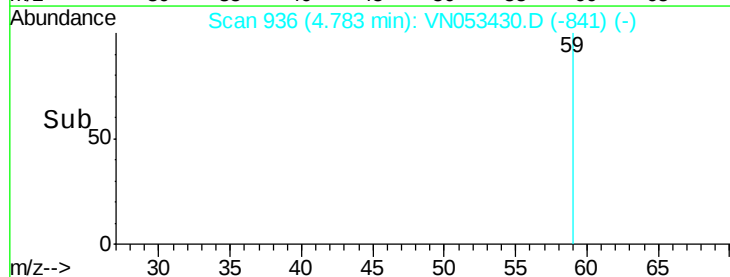
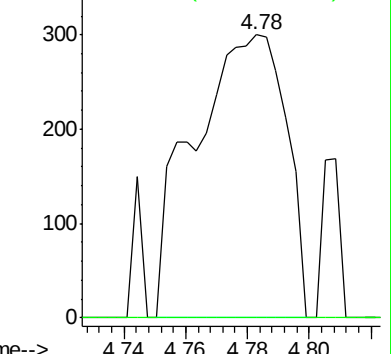
59 100

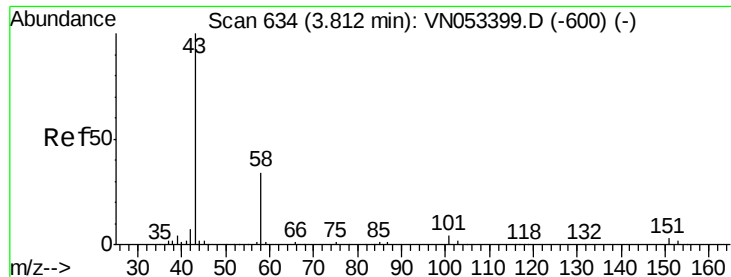
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 6.175 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

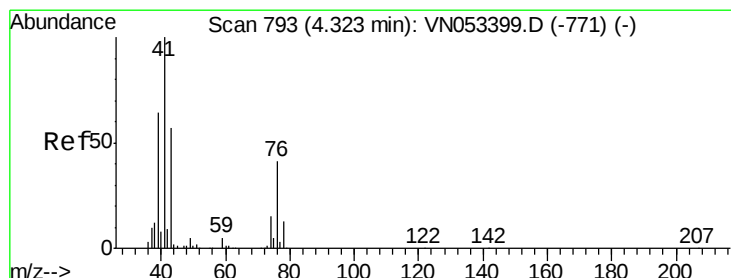
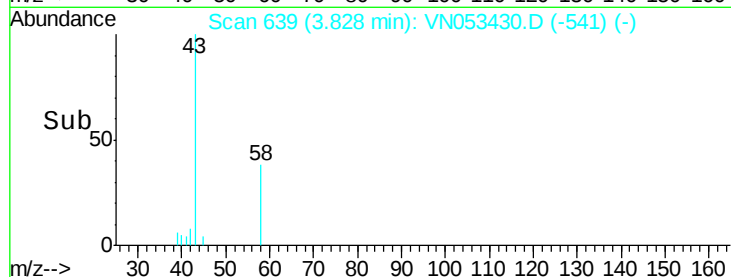
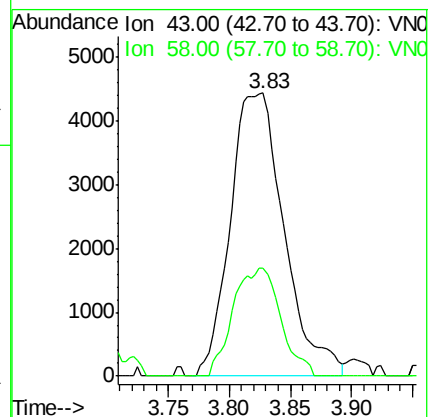
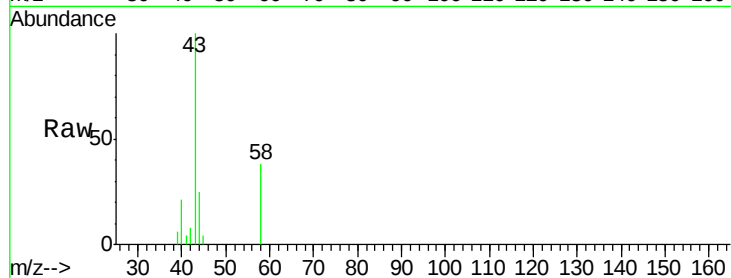
PB116405ZHE#13

Tot Ion: 43 Resp: 13597

Ion Ratio Lower Upper

43 100

58 38.3 27.1 40.7



#18

Methyl Acetate

Concen: 0.565 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053430.D

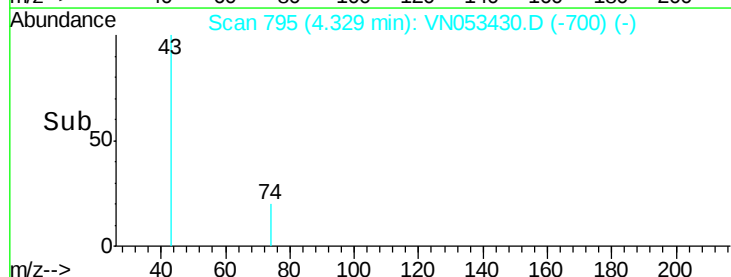
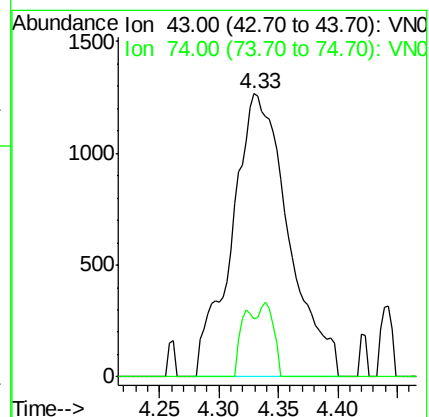
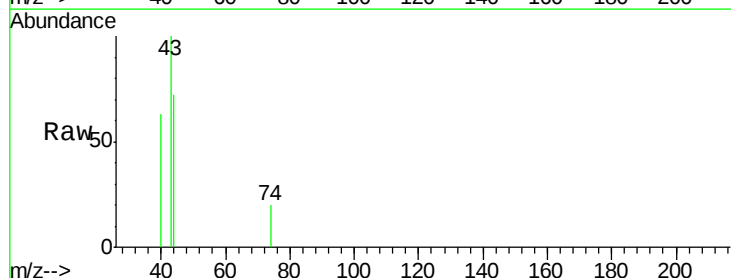
Acq: 16 Jan 2019 17:28

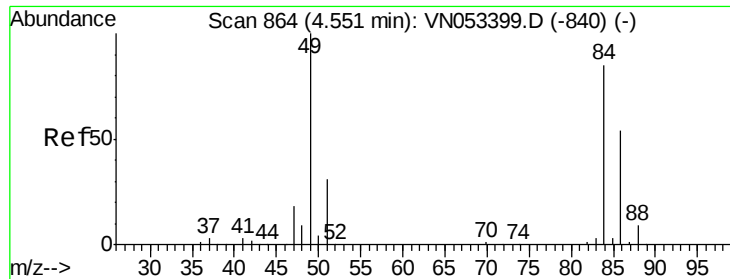
Tgt Ion: 43 Resp: 4190

Ion Ratio Lower Upper

43 100

74 5.8 19.4 29.2#

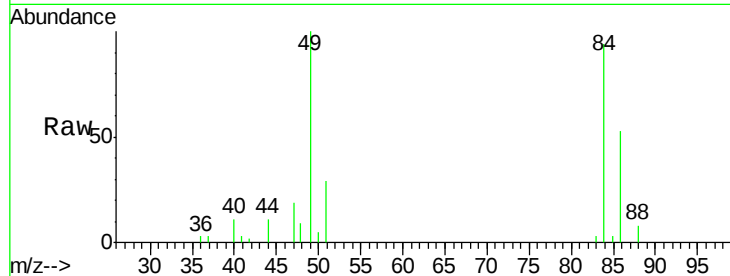




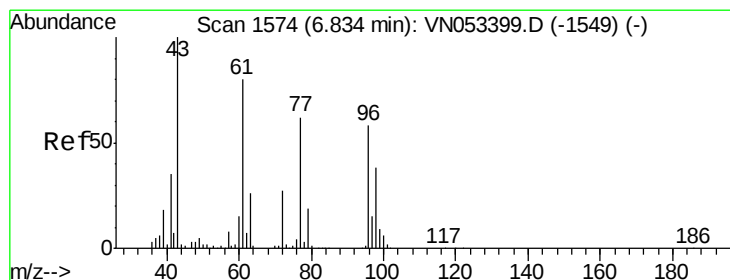
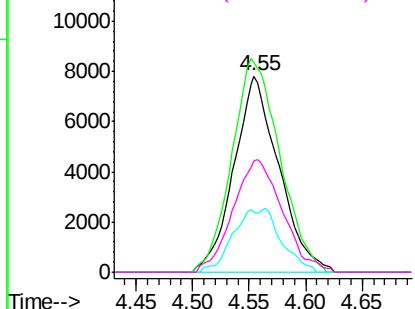
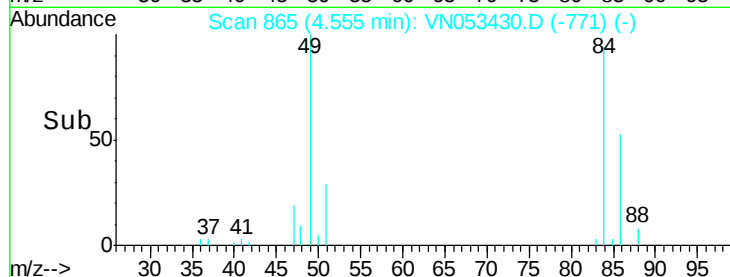
#20
Methvlene Chloride
Concen: 2.150 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
PB116405ZHE#13

Tot Ion: 84 Resp: 21614
Ion Ratio Lower Upper
84 100
49 106.8 94.3 141.5
51 30.7 29.4 44.2
86 56.5 51.4 77.0

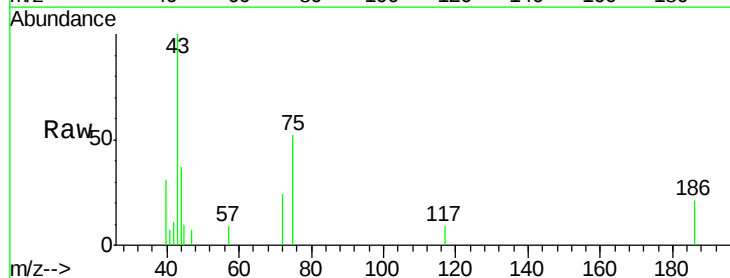


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

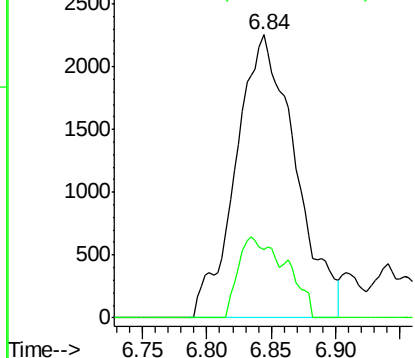
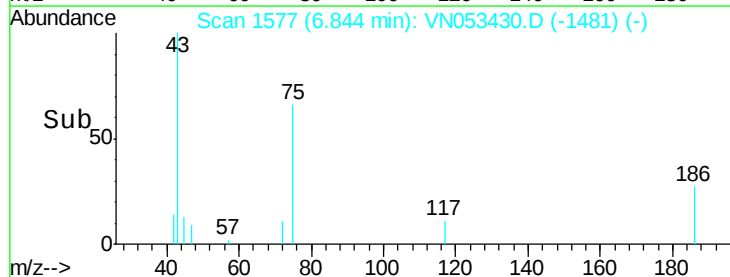


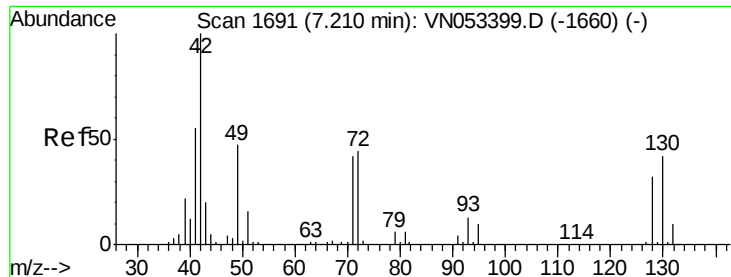
#25
2-Butanone
Concen: 2.133 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

Tgt Ion: 43 Resp: 7238
Ion Ratio Lower Upper
43 100
72 24.1 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

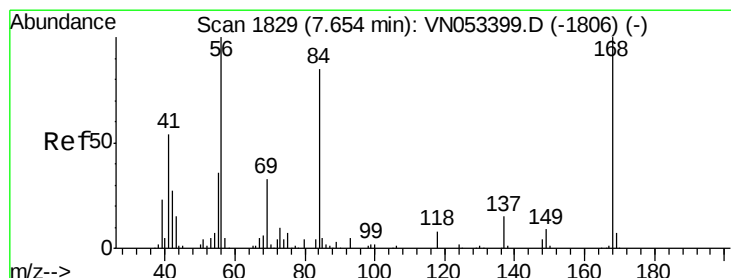
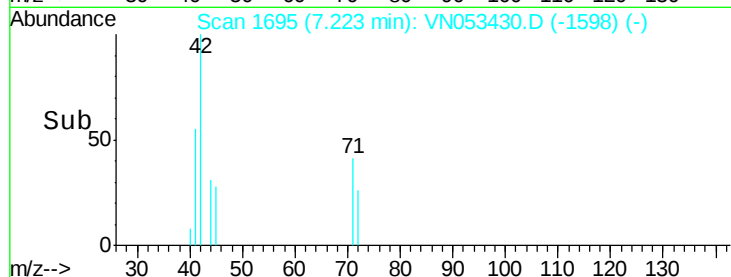
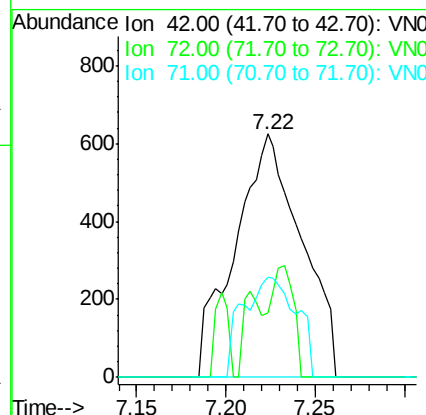
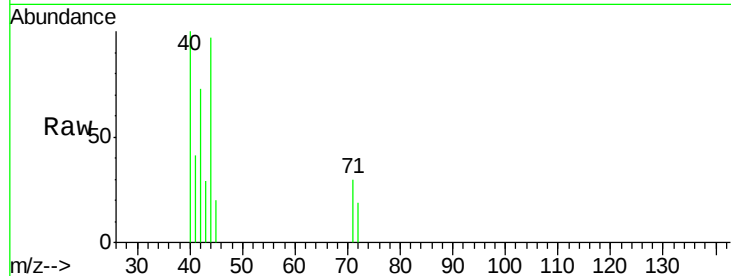




#29
Tetrahydrofuran
Concen: 0.732 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

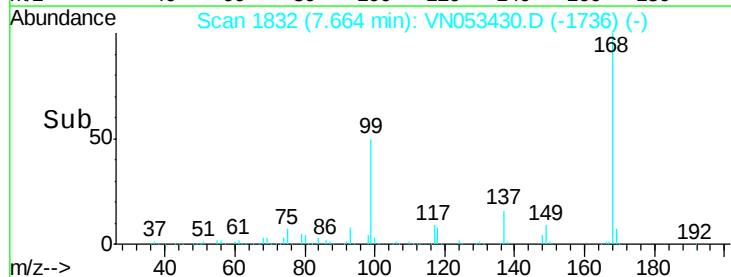
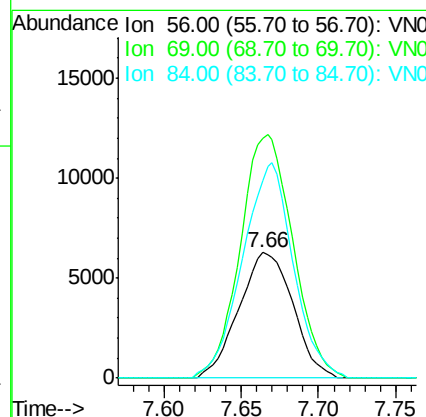
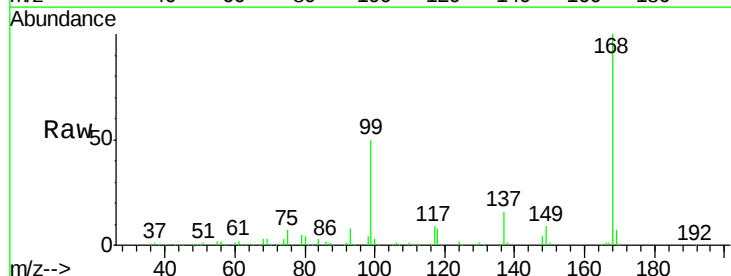
Instrument :
MSVOA_N
ClientSampleId :
PB116405ZHE#13

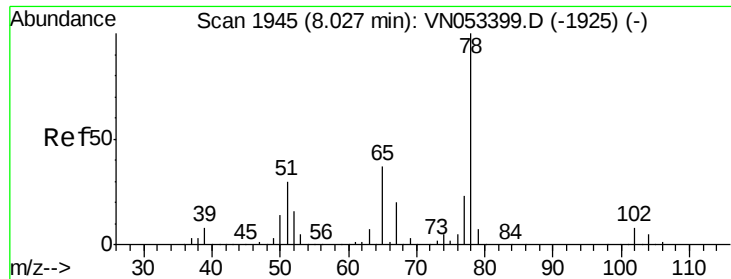
Tot Ion: 42 Resp: 1617
Ion Ratio Lower Upper
42 100
72 9.2 35.2 52.8#
71 33.3 33.0 49.4



#31
Cyclohexane
Concen: 0.705 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

Tgt Ion: 56 Resp: 15270
Ion Ratio Lower Upper
56 100
69 191.4 26.4 39.6#
84 158.1 67.9 101.9#

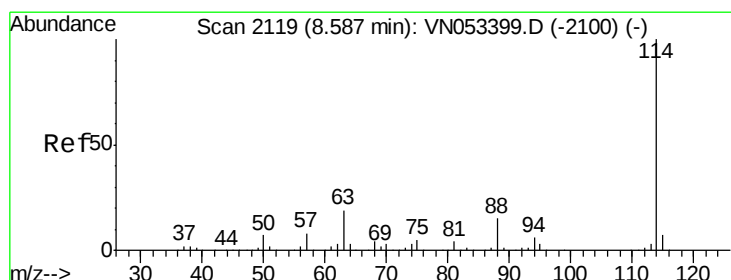
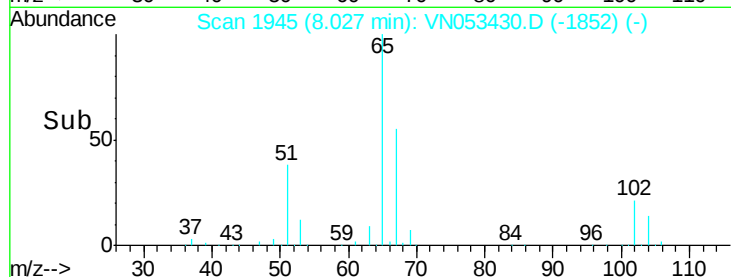
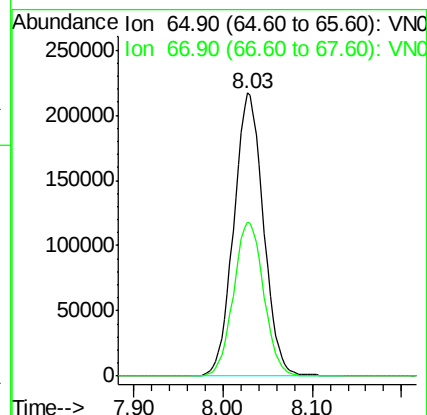
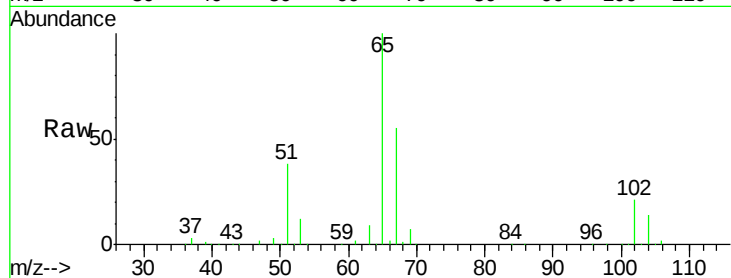




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

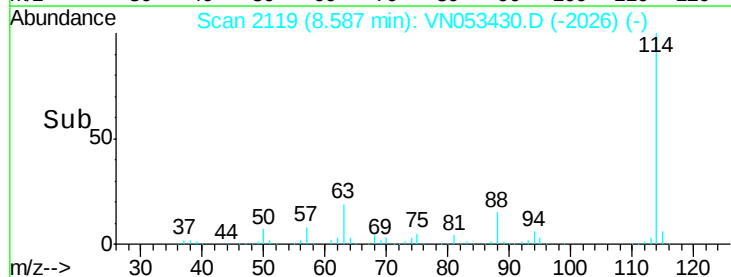
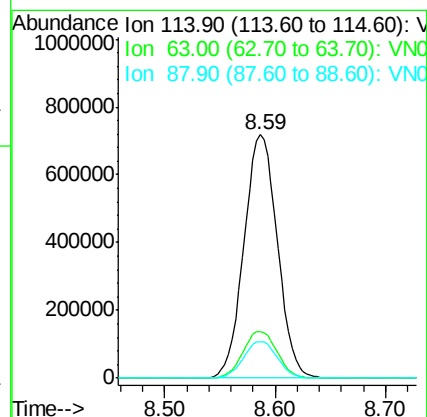
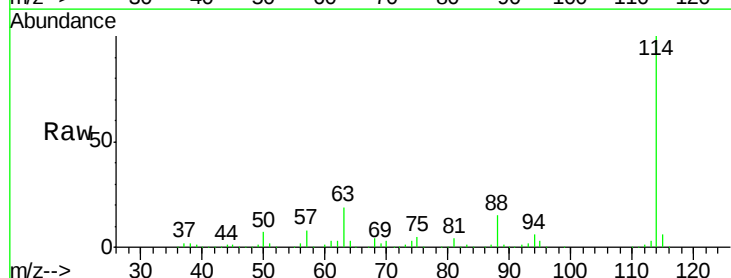
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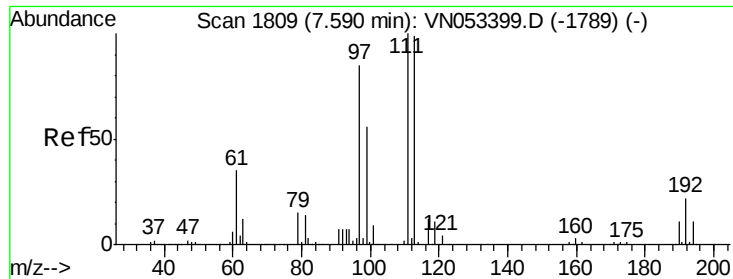
Tot Ion: 65 Resp: 499726
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

Tgt Ion: 114 Resp: 1505136
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.0 0.0 30.4

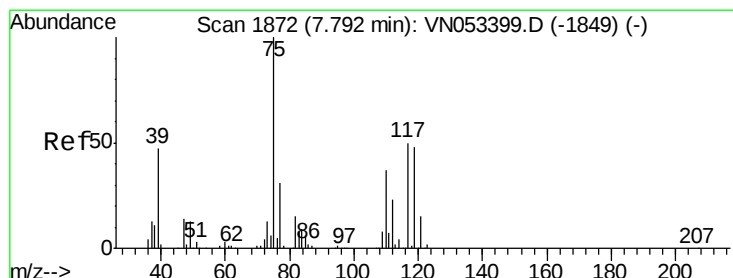
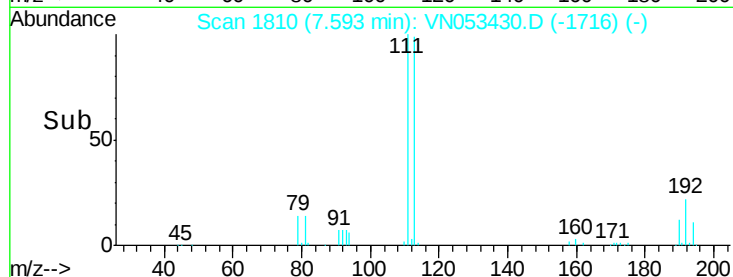
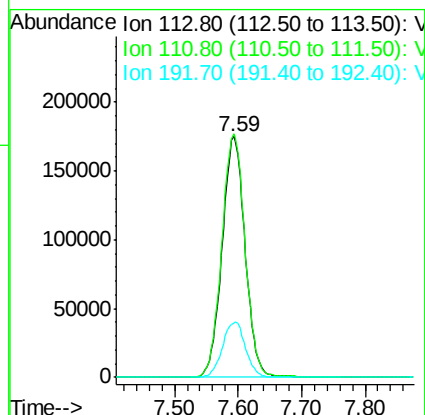
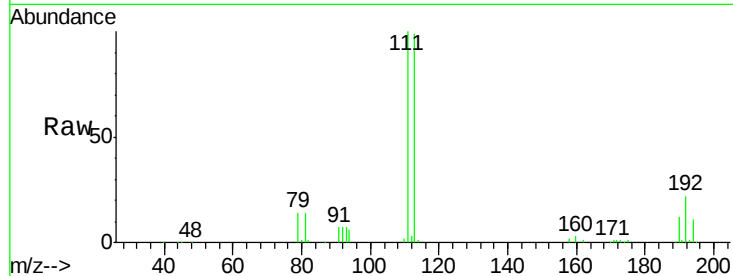




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

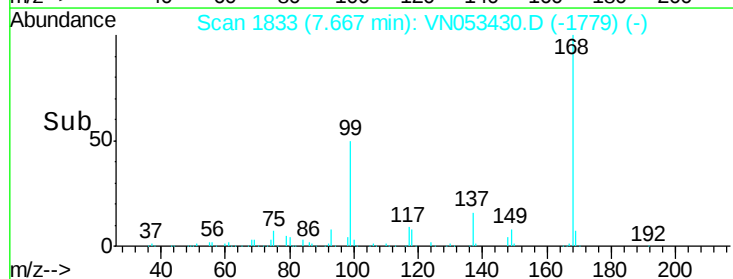
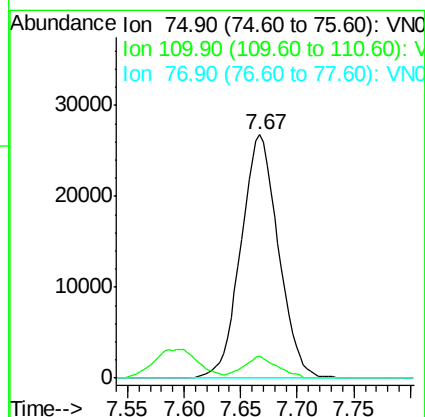
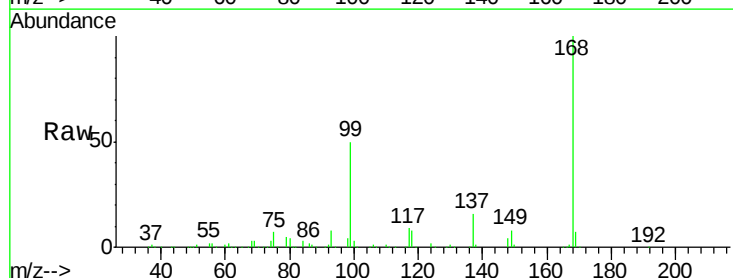
Instrument :
MSVOA_N
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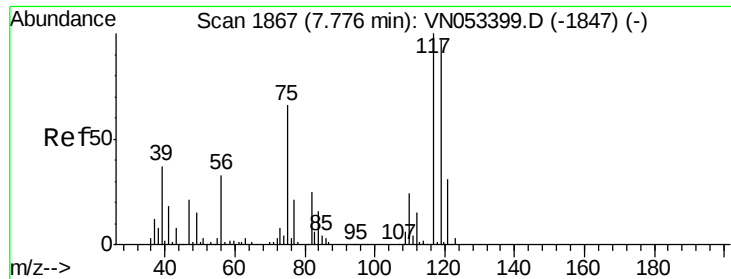
Tot Ion:113 Resp: 439346
Ion Ratio Lower Upper
113 100
111 102.3 81.1 121.7
192 23.0 18.2 27.2



#36
1,1-Dichloropropene
Concen: 4.505 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

Tgt Ion: 75 Resp: 61754
Ion Ratio Lower Upper
75 100
110 8.2 18.1 54.3#
77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.307 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#13

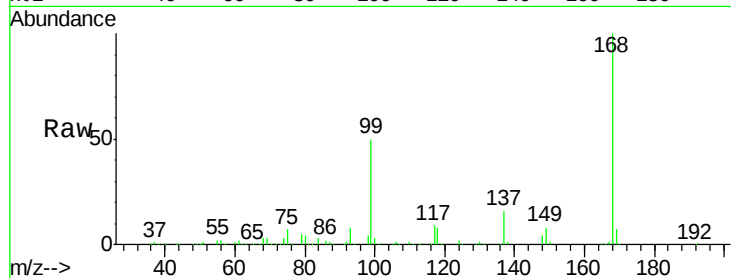
Tot Ion:117 Resp: 81851

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

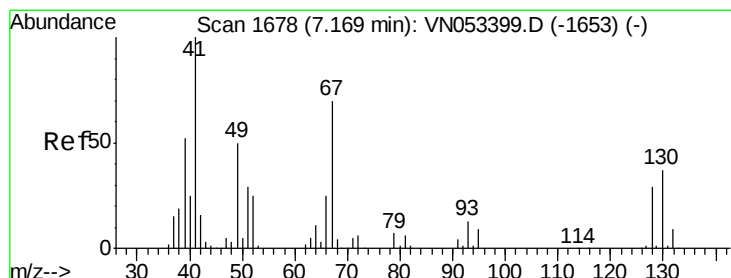
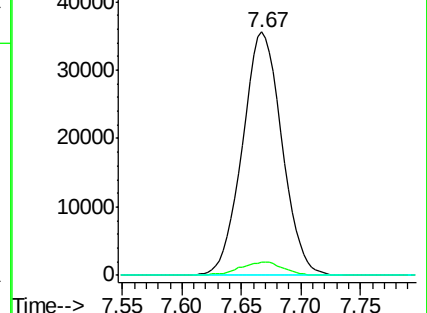
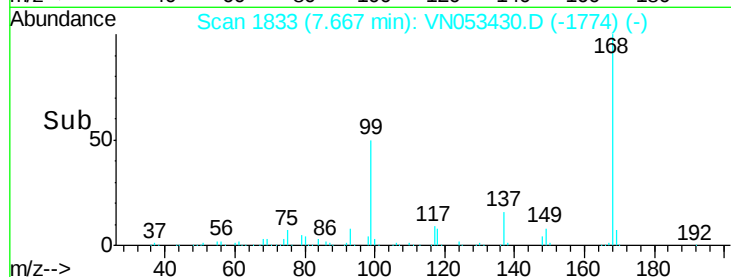
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.782 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.04 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Tgt Ion: 41 Resp: 543

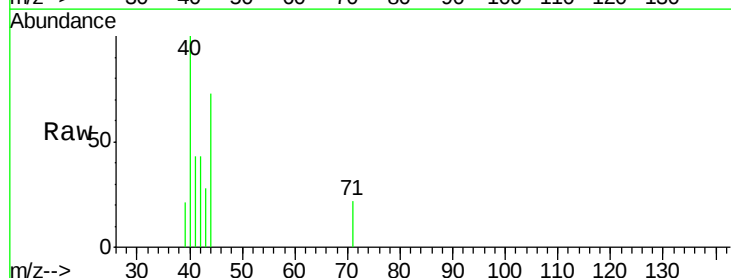
Ion Ratio Lower Upper

41 100

39 6.4 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

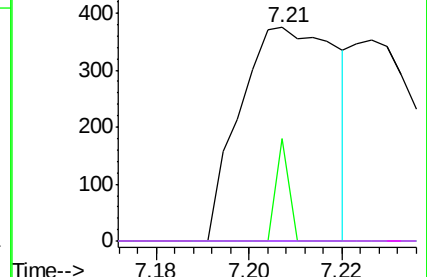
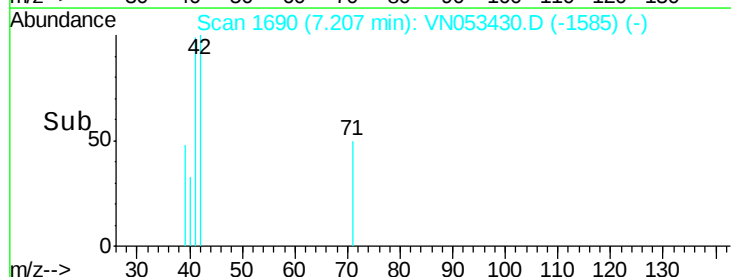


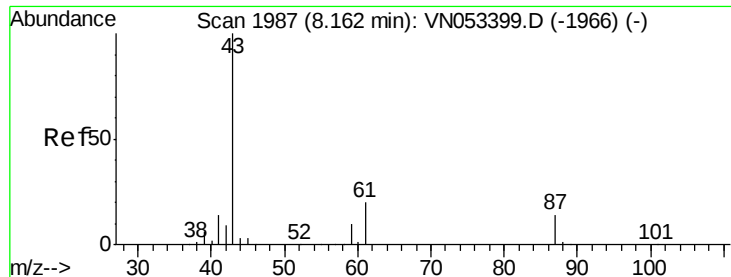
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 4.262 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#13

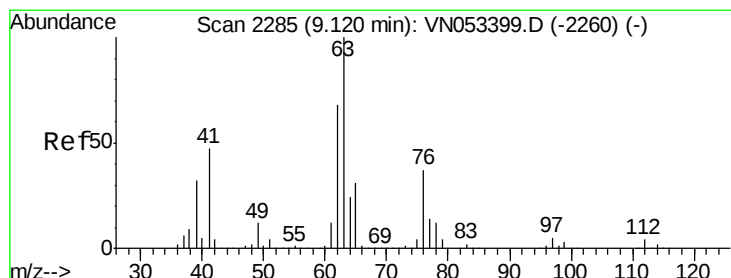
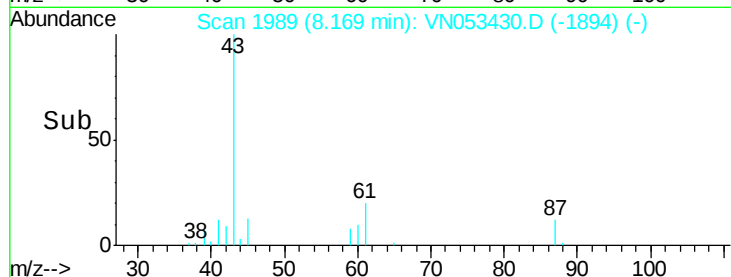
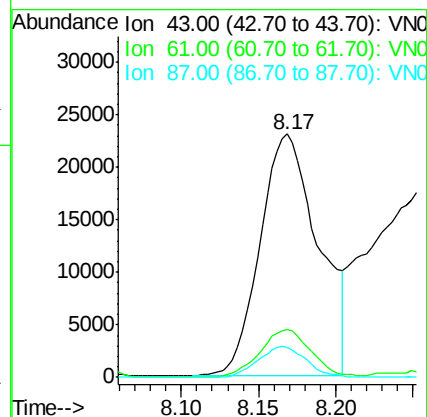
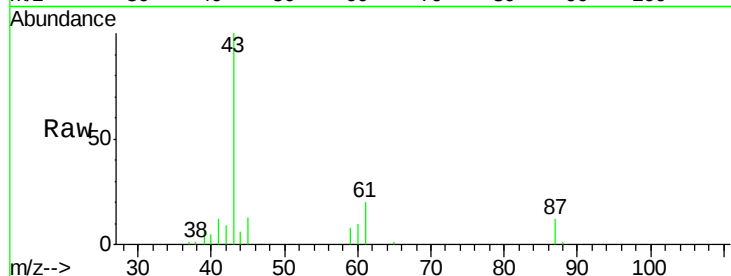
Tot Ion: 43 Resp: 60437

Ion Ratio Lower Upper

43 100

61 17.4 23.9 35.9#

87 10.4 11.0 16.6#



#45

1,2-Dichloropropane

Concen: 0.313 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053430.D

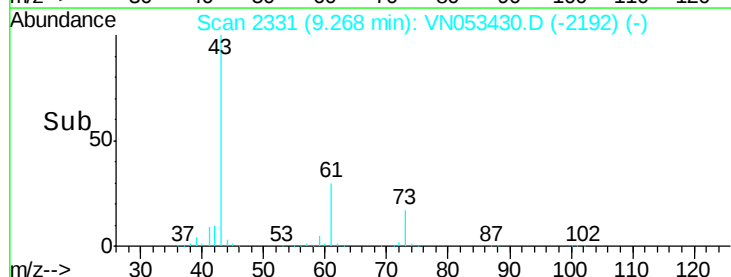
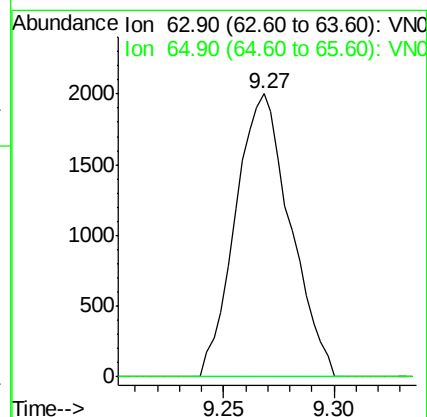
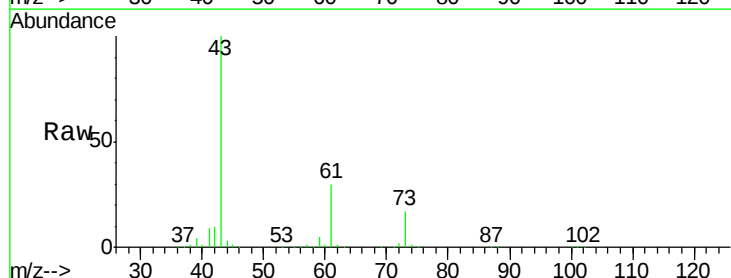
Acq: 16 Jan 2019 17:28

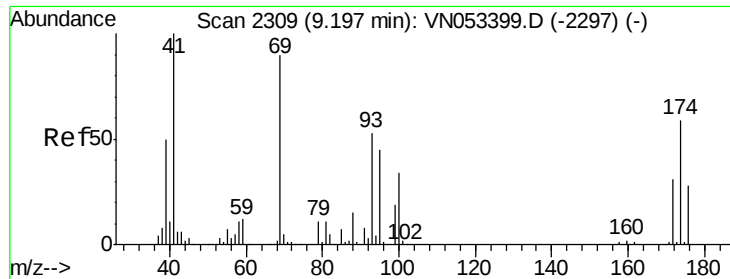
Tgt Ion: 63 Resp: 3449

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

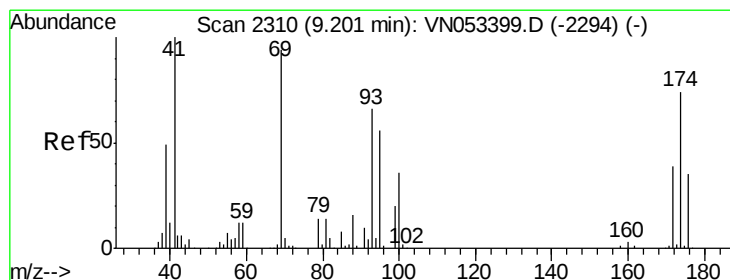
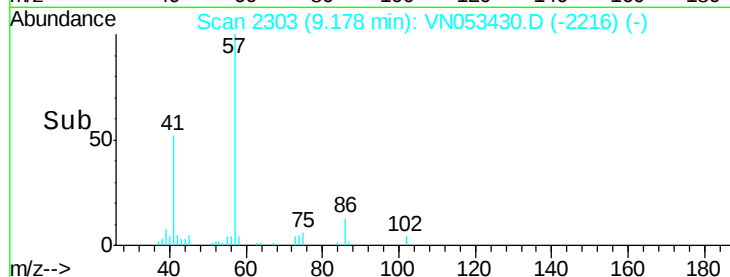
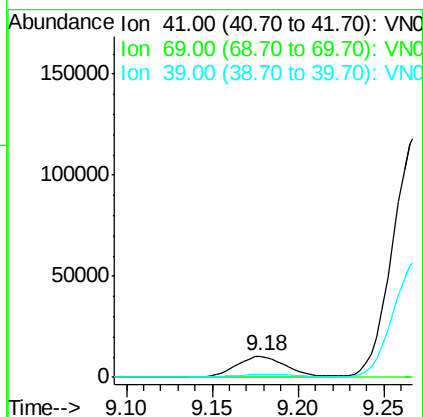
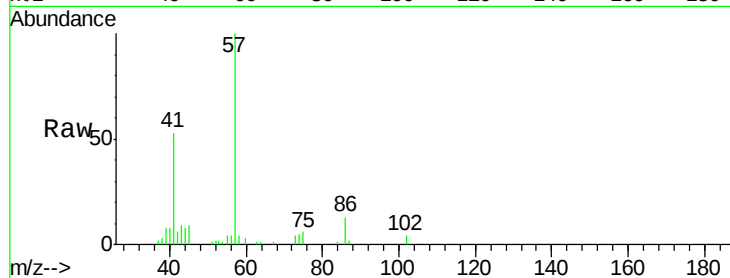




#48
Methyl methacrylate
Concen: 2.922 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

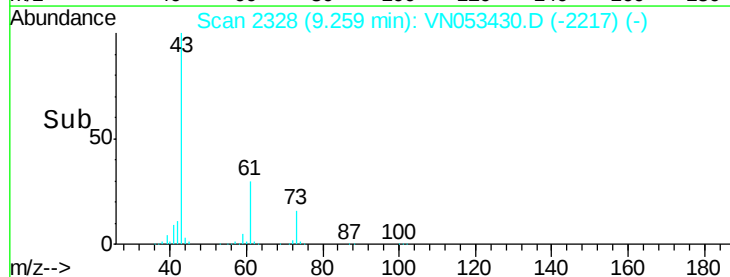
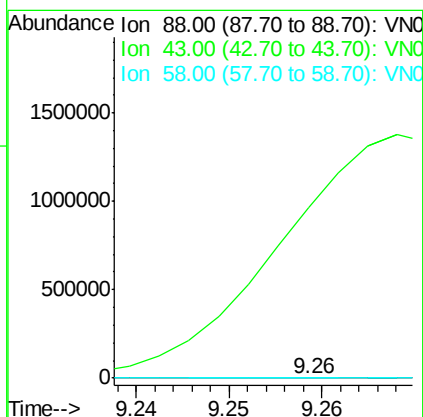
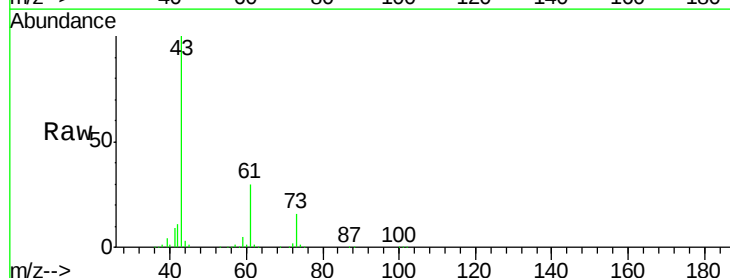
Instrument :
MSVOA_N
ClientSampleId :
PB116405ZHE#13

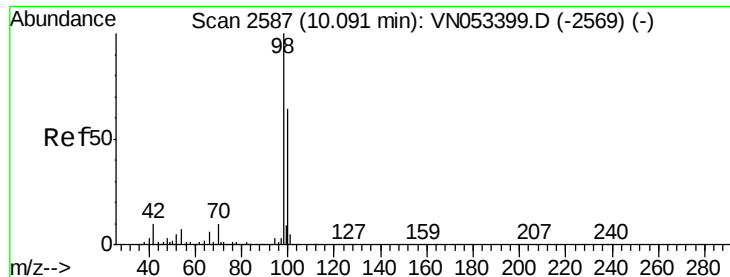
Tot Ion: 41 Resp: 21393
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 17.8 40.0 60.0#



#49
1,4-Dioxane
Concen: 2.196 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN053430.D
Acq: 16 Jan 2019 17:28

Tgt Ion: 88 Resp: 157
Ion Ratio Lower Upper
88 100
43 1581160.5 27.8 41.6#
58 7164.3 56.5 84.7#





#50

Toluene-d8

Concen: 2.196 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

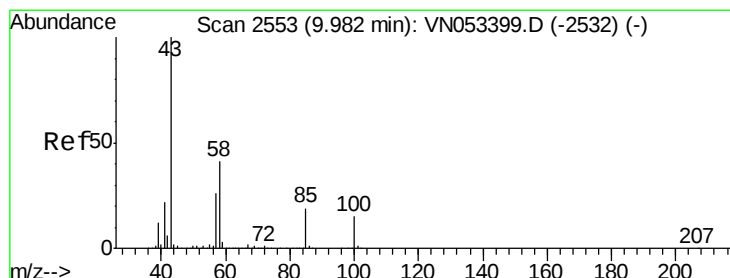
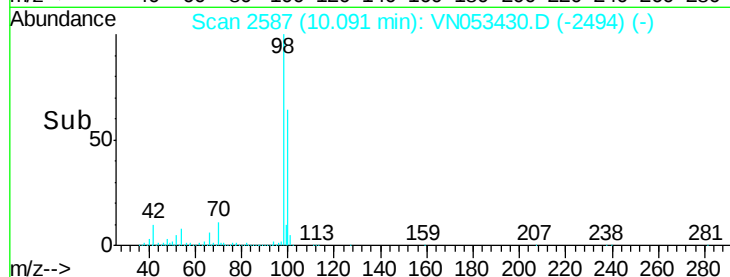
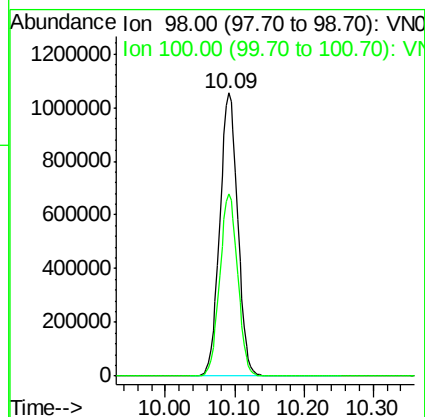
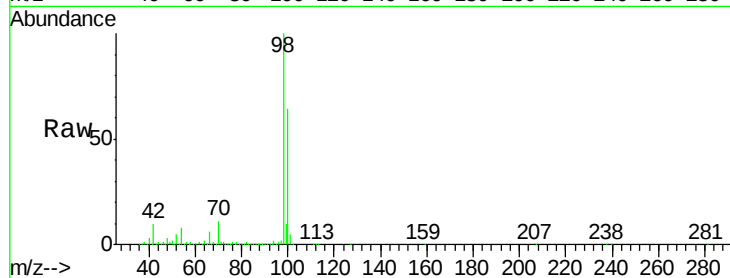
PB116405ZHE#13

Tot Ion: 98 Resp: 1888249

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 2.810 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053430.D

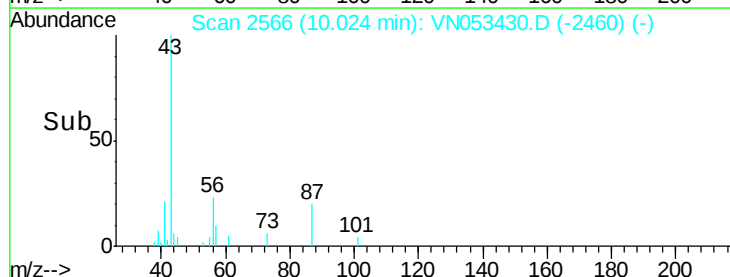
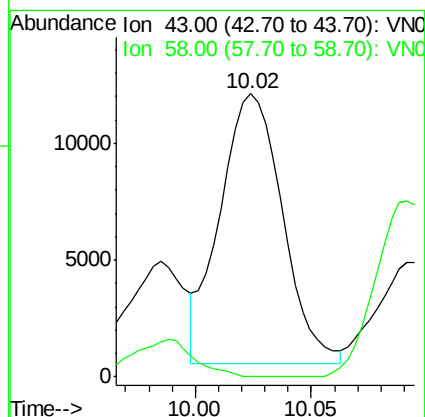
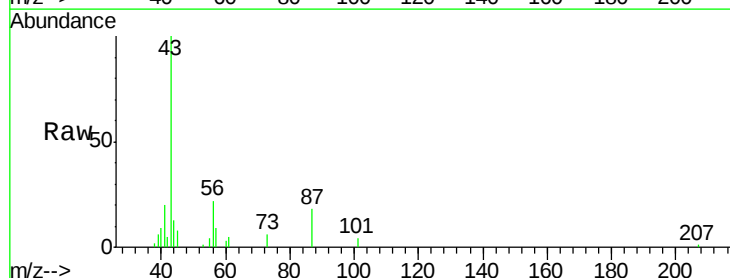
Acq: 16 Jan 2019 17:28

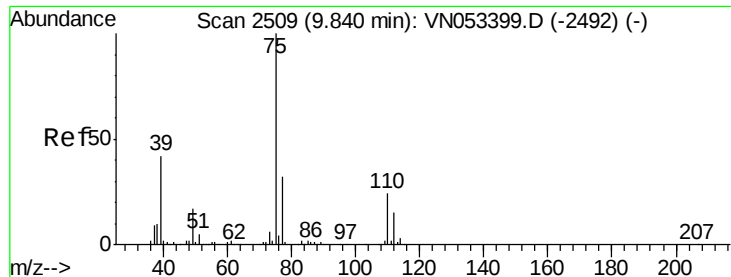
Tgt Ion: 43 Resp: 21756

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 8.798 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#13

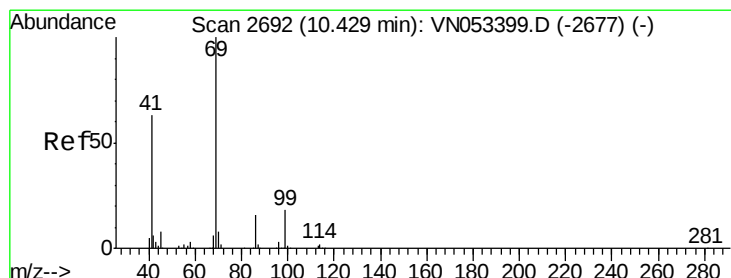
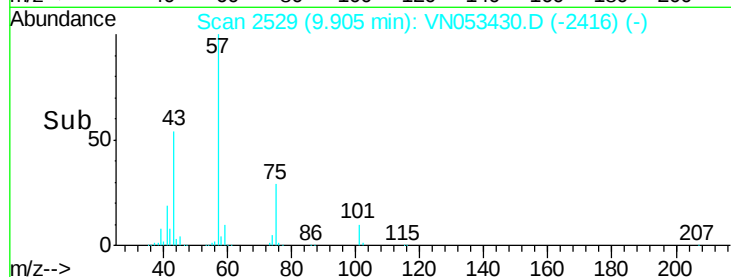
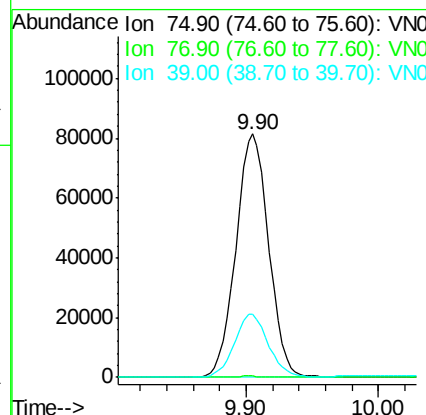
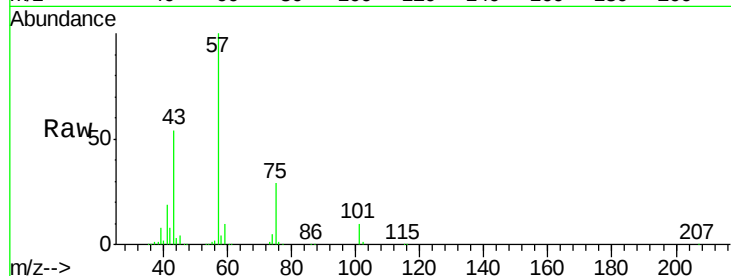
Tot Ion: 75 Resp: 139353

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 26.0 33.4 50.0#



#56

Ethyl methacrylate

Concen: 2.220 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

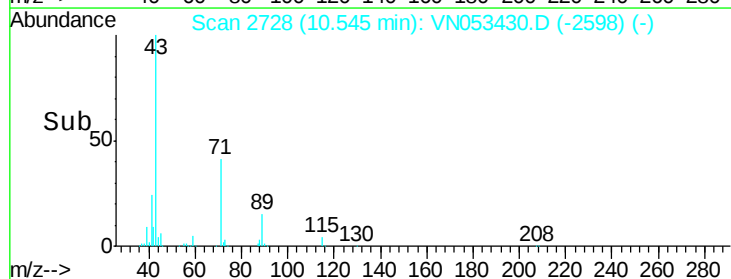
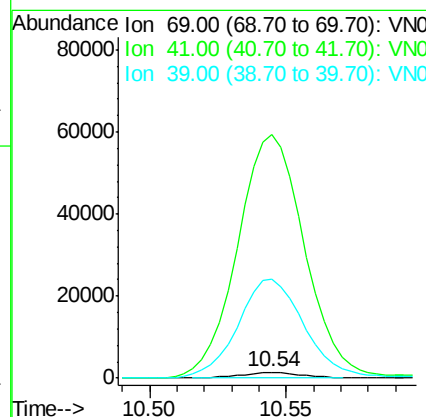
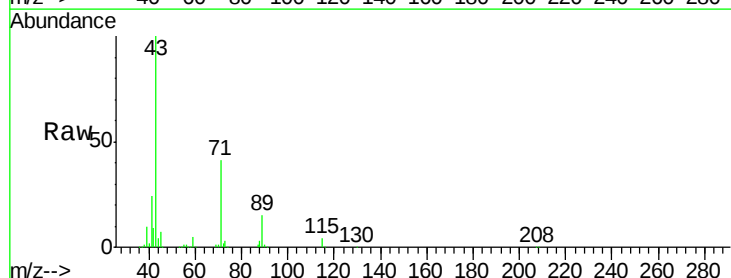
Tgt Ion: 69 Resp: 2139

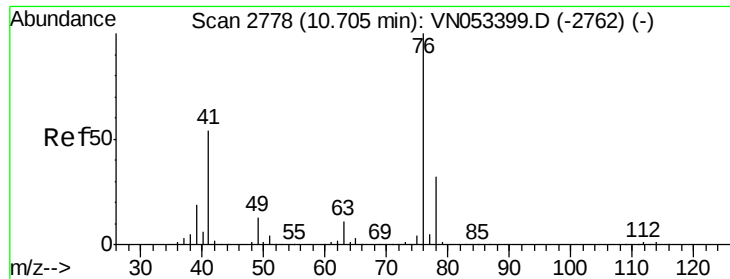
Ion Ratio Lower Upper

69 100

41 4742.3 49.4 74.0#

39 1921.2 23.3 34.9#

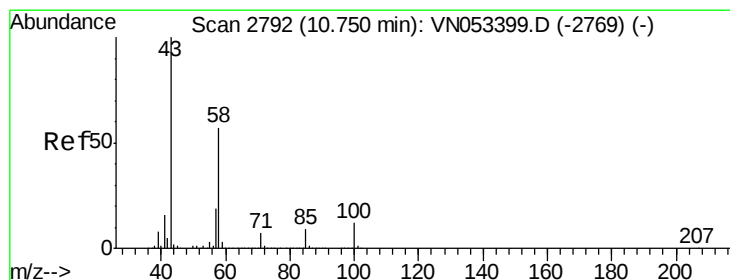
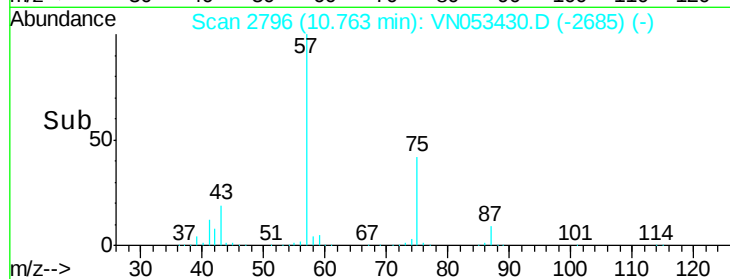
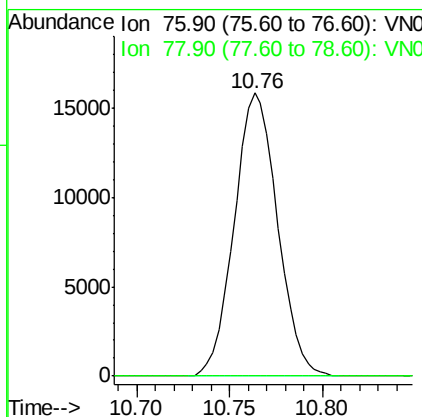
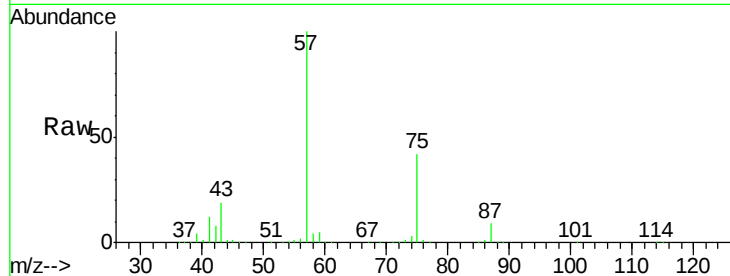




#57
 1,3-Dichloropropane
 Concen: 1.661 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

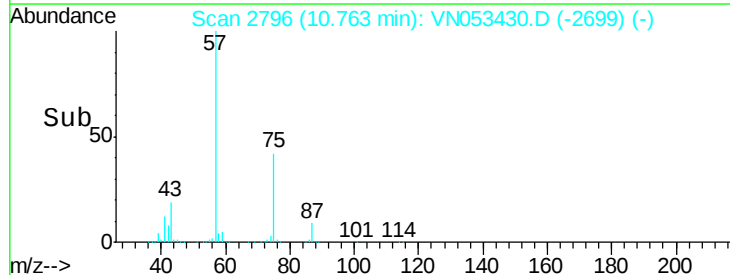
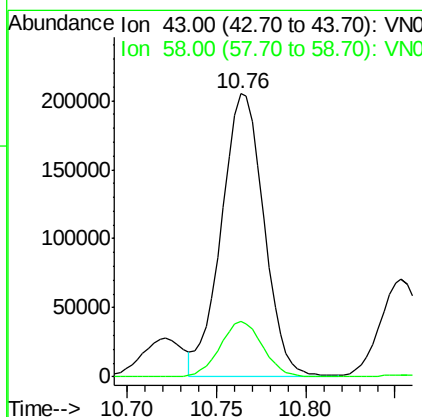
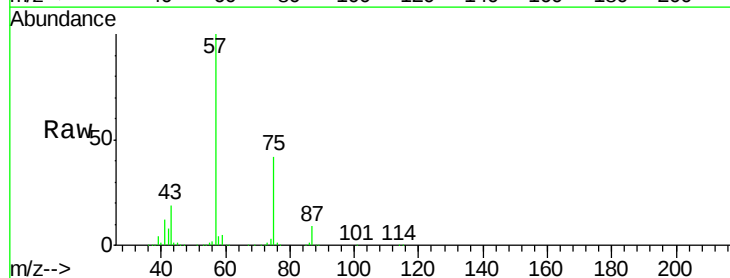
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116405ZHE#13

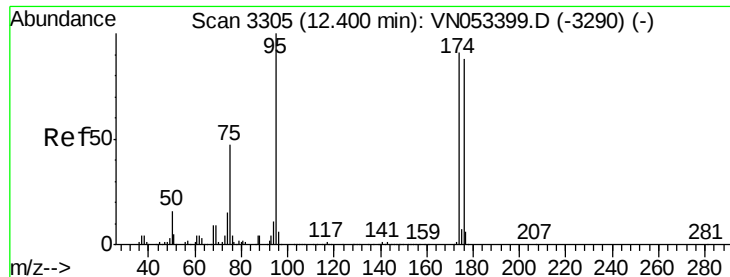
Tot Ion: 76 Resp: 25625
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 62.067 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

Tgt Ion: 43 Resp: 337282
 Ion Ratio Lower Upper
 43 100
 58 19.9 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#13

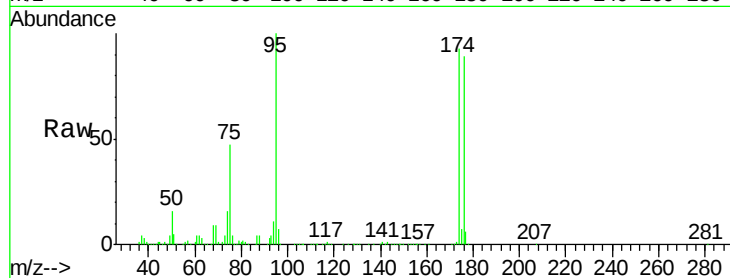
Tot Ion: 95 Resp: 664524

Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.2

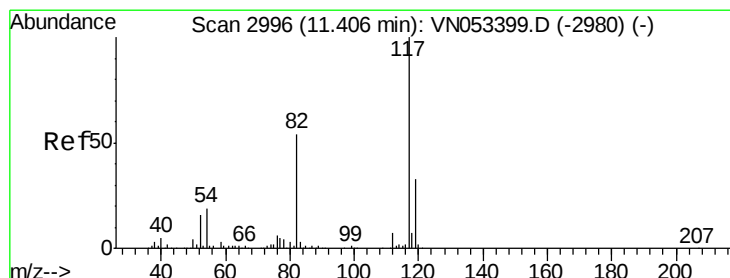
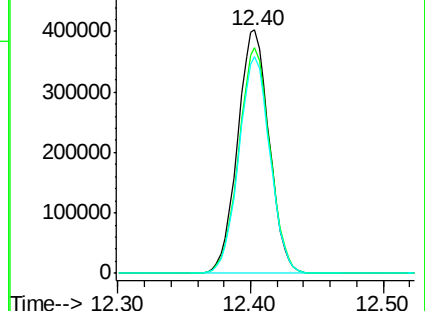
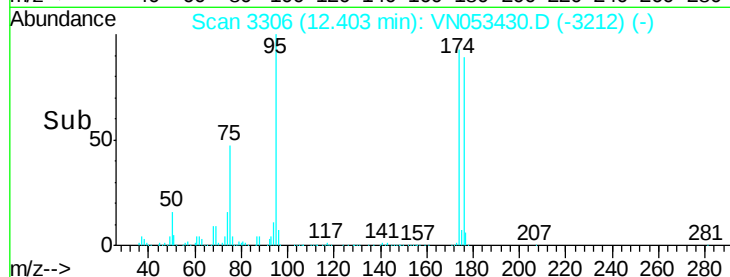
176 88.3 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053399.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053399.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

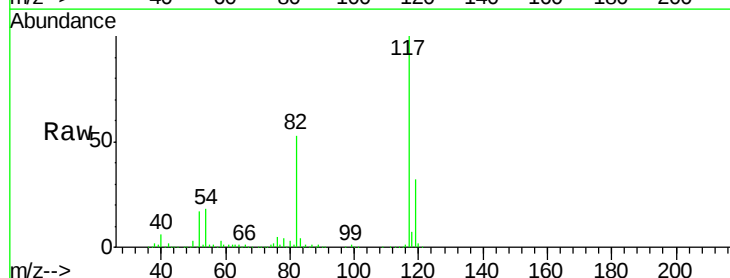
Tgt Ion: 117 Resp: 1445352

Ion Ratio Lower Upper

117 100

82 53.2 42.9 64.3

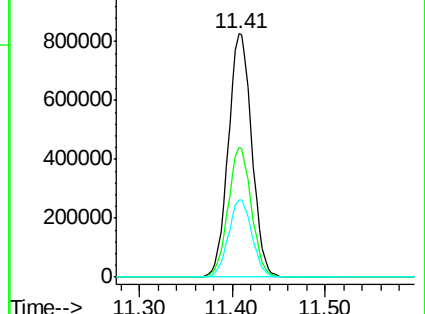
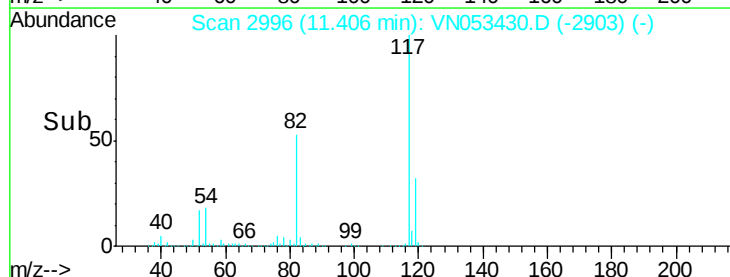
119 31.8 26.0 39.0

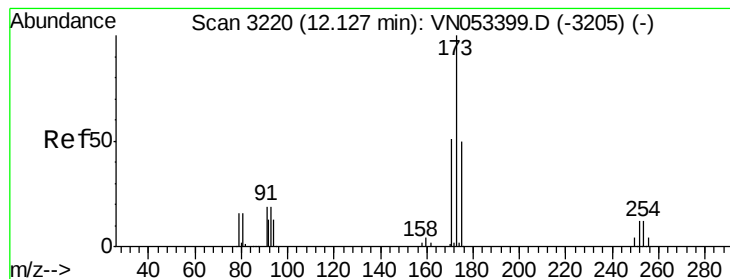


Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053399.D (-2980) (-)





#71

Bromoform

Concen: 0.600 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB116405ZHE#13

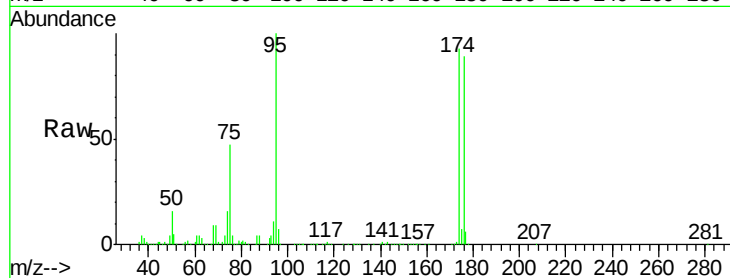
Tot Ion:173 Resp: 4396

Ion Ratio Lower Upper

173 100

175 867.6 24.6 74.0#

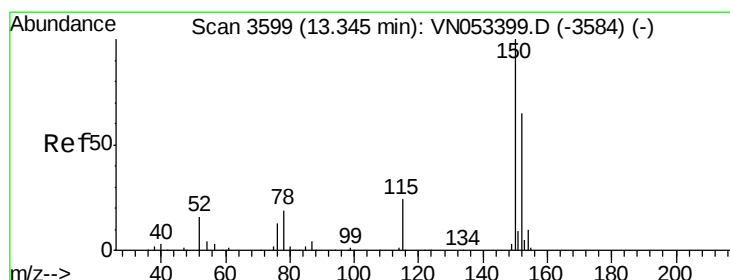
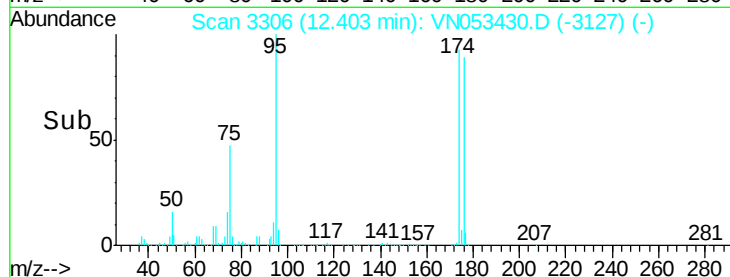
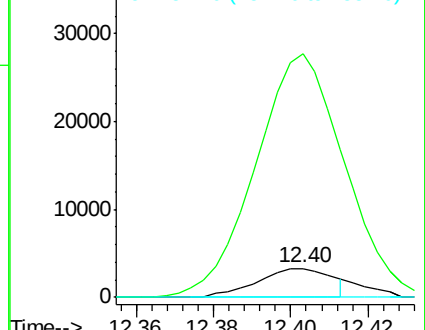
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

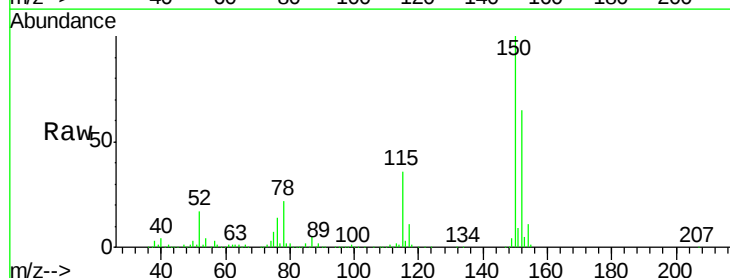
Tgt Ion:152 Resp: 647609

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

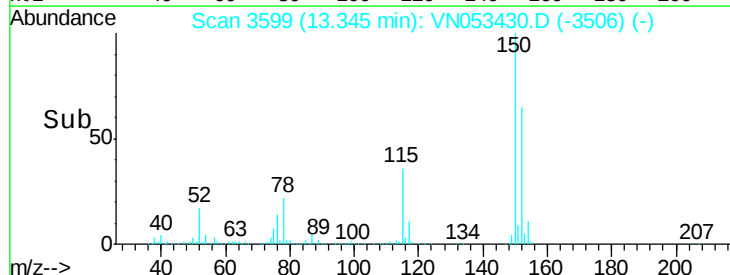
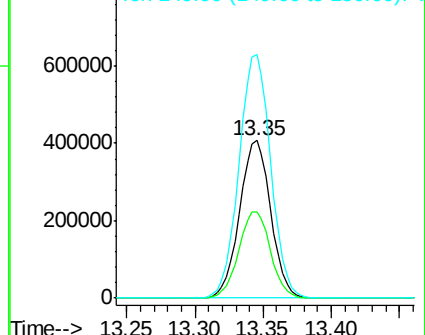
150 157.1 0.0 349.0

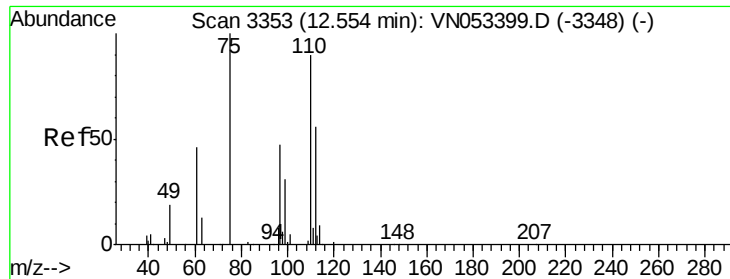


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.530 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

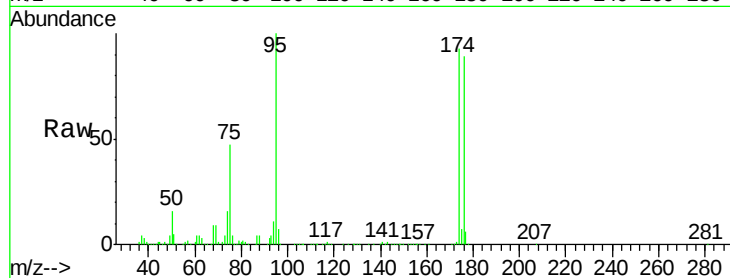
PB116405ZHE#13

Tot Ion: 75 Resp: 311759

Ion Ratio Lower Upper

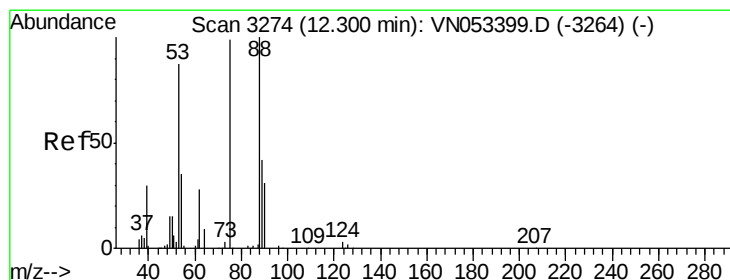
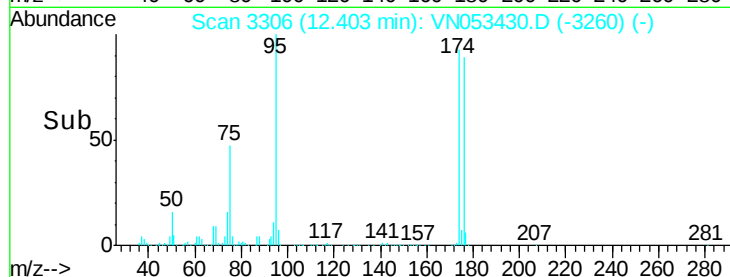
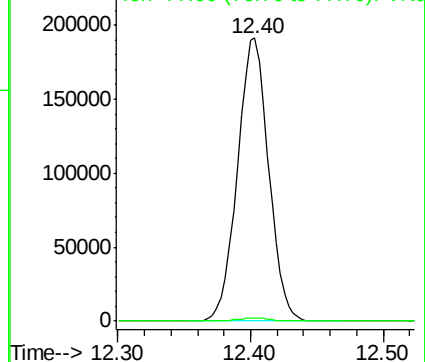
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 90.299 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053430.D

Acq: 16 Jan 2019 17:28

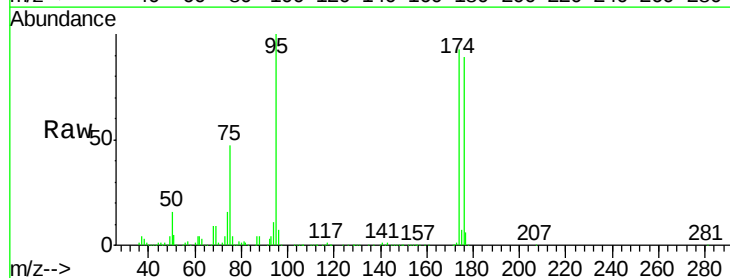
Tgt Ion: 75 Resp: 311759

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

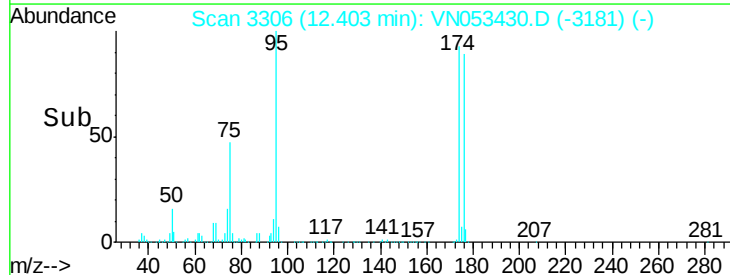
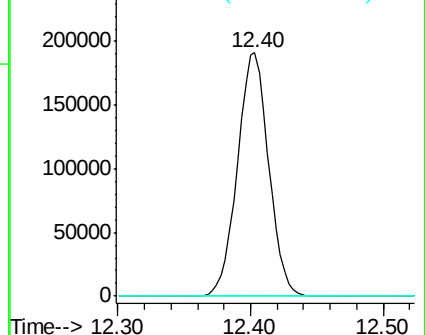
89 0.0 35.6 53.4#

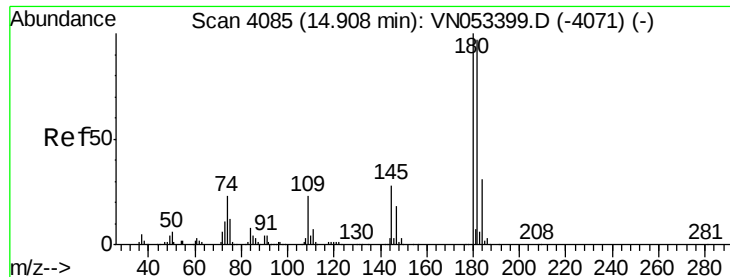


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

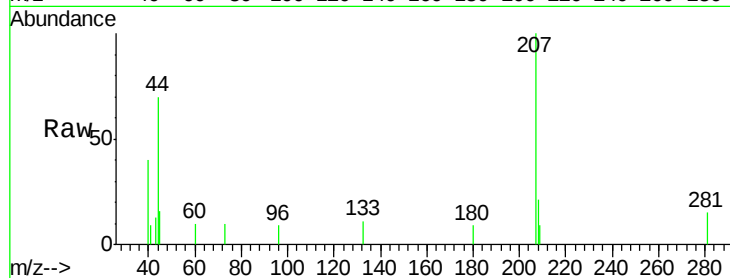




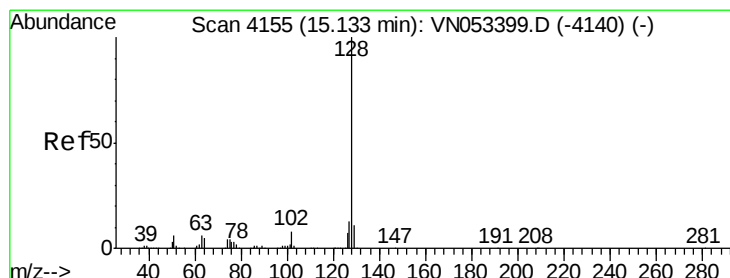
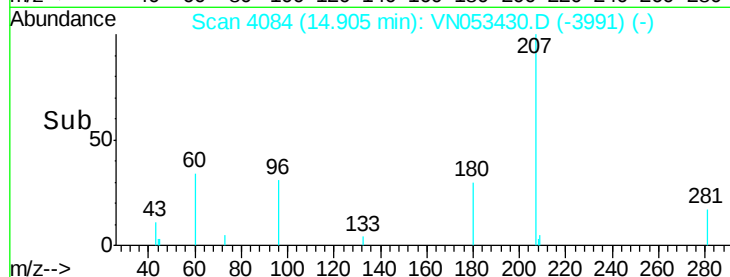
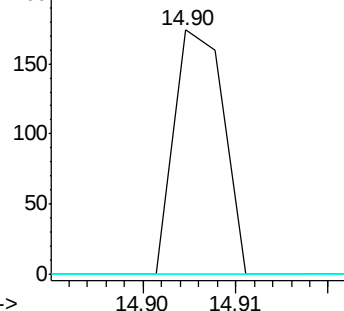
#93
 1,2,4-Trichlorobenzene
 Concen: 2.773 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116405ZHE#13

Tot Ion:180 Resp: 64
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.1 144.3#
 145 0.0 13.9 41.6#

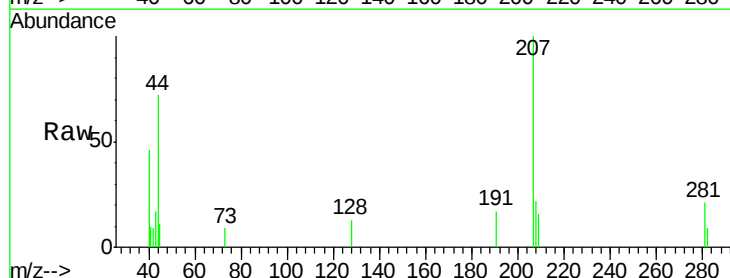


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.956 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: VN053430.D
 Acq: 16 Jan 2019 17:28

Tgt Ion:128 Resp: 289
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#



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

