

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021219\
 Data File : VN053725.D
 Acq On : 12 Feb 2019 12:52
 Operator : JC/SP
 Sample : K1457-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SOIL-01

Quant Time: Feb 13 05:01:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	816004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1301627	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1217075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	551140	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	420773	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
35) Dibromofluoromethane	7.59	113	411257	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
50) Toluene-d8	10.09	98	1604854	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.40	95	554566	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	

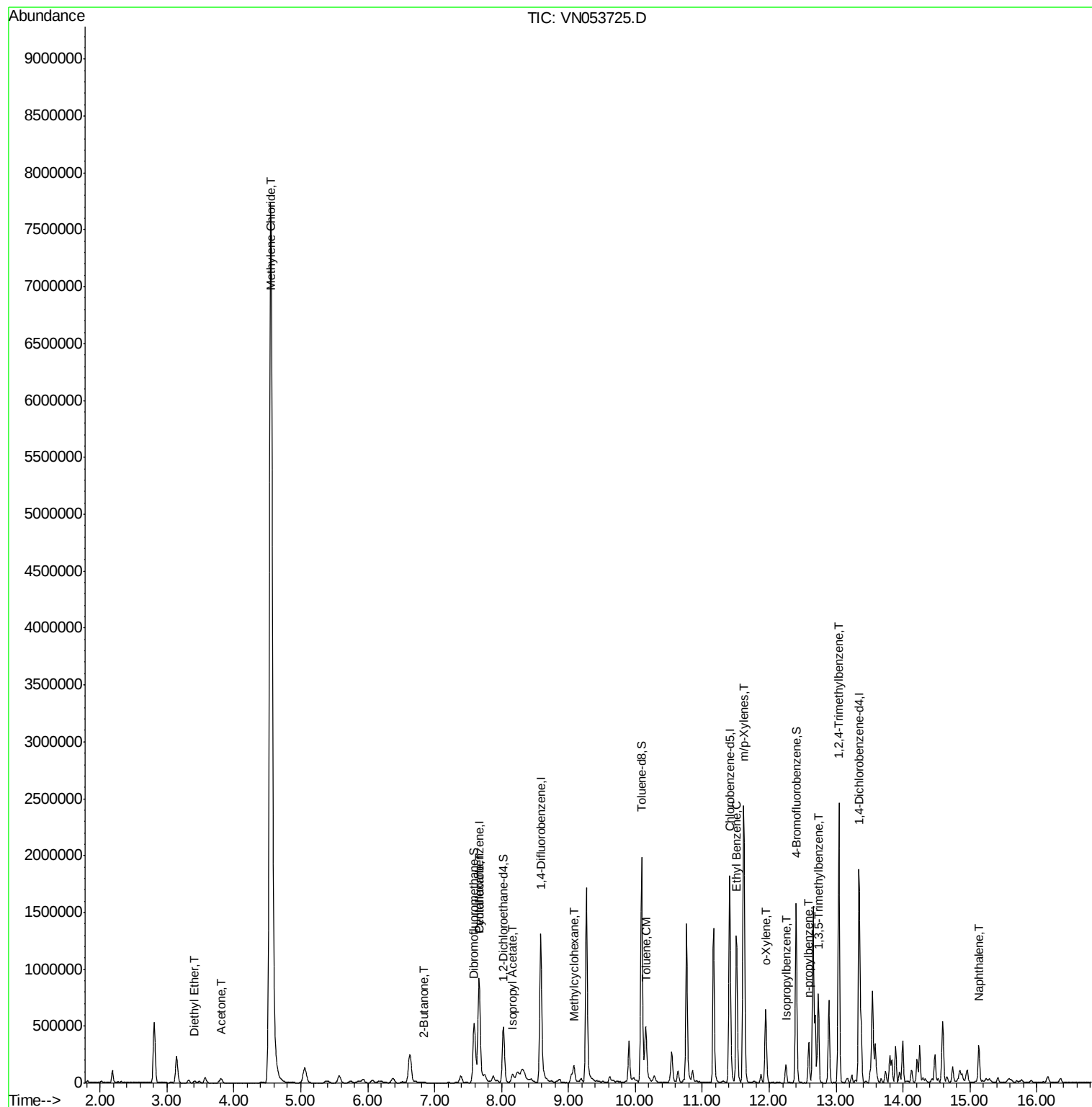
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	10510	2.257	ug/l	90
16) Acetone	3.82	43	37020	17.631	ug/l #	74
20) Methylene Chloride	4.55	84	6245584	708.975	ug/l	99
25) 2-Butanone	6.84	43	9090	3.035	ug/l	98
31) Cyclohexane	7.66	56	94351	6.668	ug/l #	87
39) Methylcyclohexane	9.08	83	71332	5.124	ug/l	98
43) Isopropyl Acetate	8.17	43	40090	3.168	ug/l #	78
52) Toluene	10.16	92	224759	10.466	ug/l	99
67) Ethyl Benzene	11.51	91	1041607	24.528	ug/l	100
68) m/p-Xylenes	11.62	106	845572	52.170	ug/l	100
69) o-Xylene	11.95	106	192045	12.265	ug/l	99
73) Isopropylbenzene	12.25	105	109723	2.832	ug/l	100
78) n-propylbenzene	12.59	91	294319	6.571	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	452057	14.070	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1450876	44.325	ug/l	99
95) Naphthalene	15.13	128	288080	13.222	ug/l	100

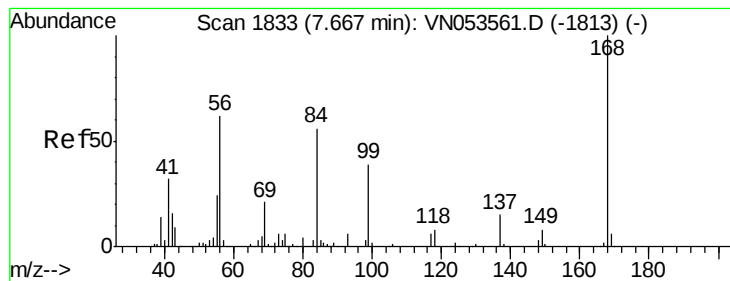
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 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: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

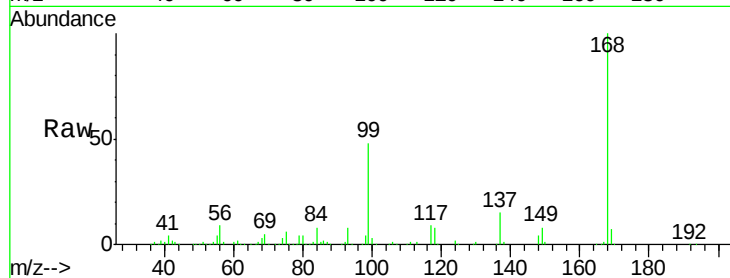
IDW-SOIL-01

Tot Ion:168 Resp: 816004

Ion Ratio Lower Upper

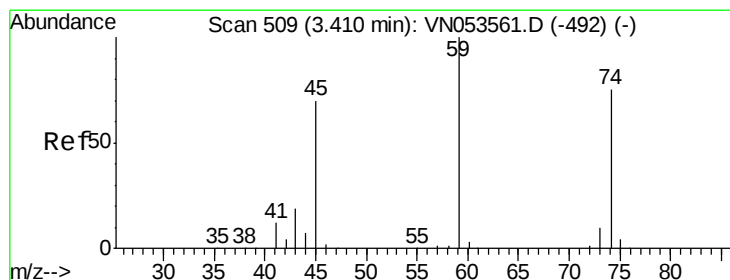
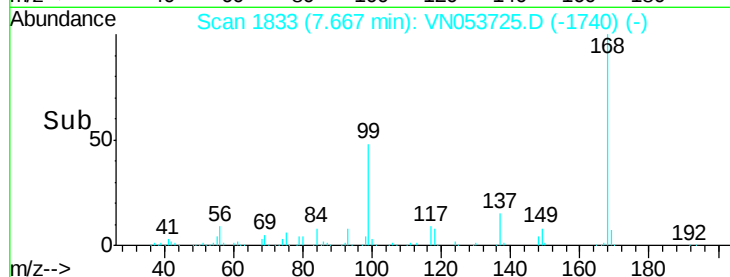
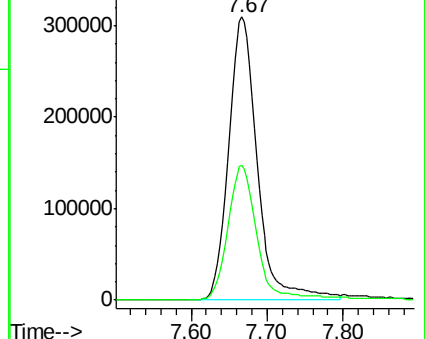
168 100

99 47.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 2.257 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053725.D

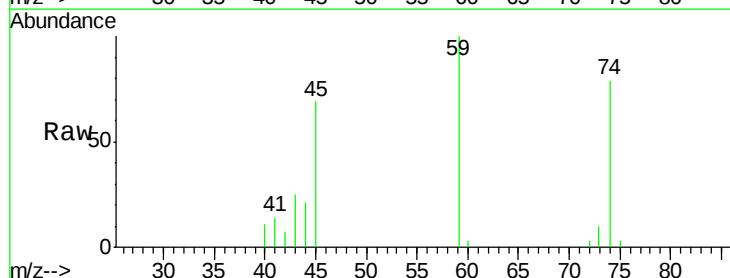
Acq: 12 Feb 2019 12:52

Tgt Ion: 74 Resp: 10510

Ion Ratio Lower Upper

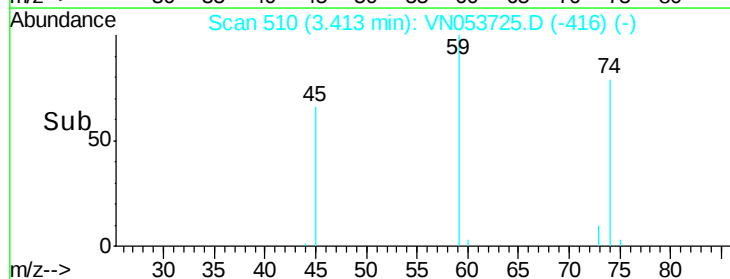
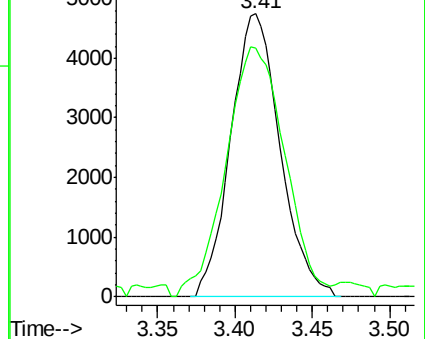
74 100

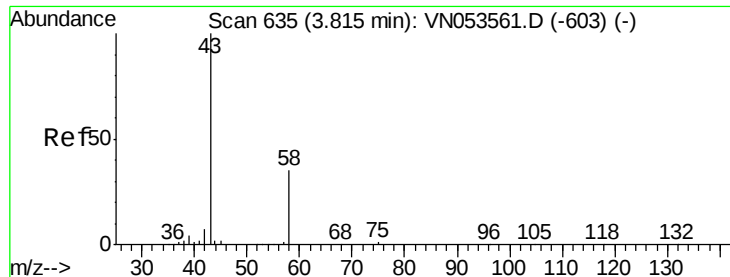
45 105.1 47.9 143.7



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#16

Acetone

Concen: 17.631 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

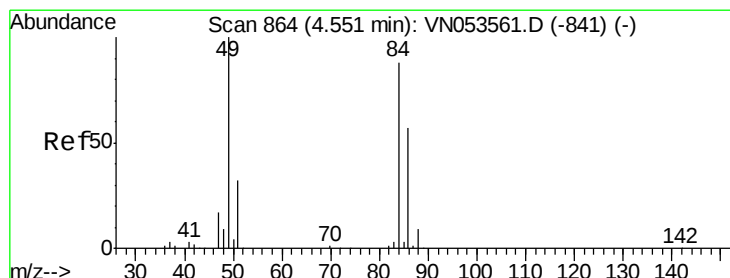
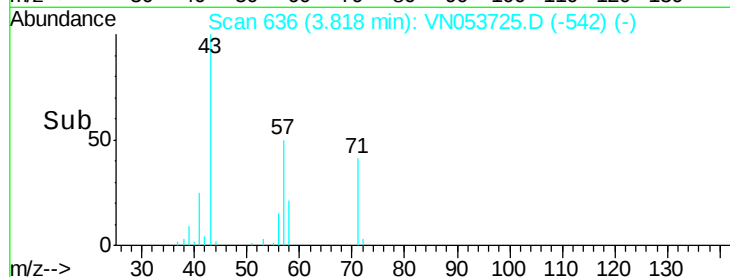
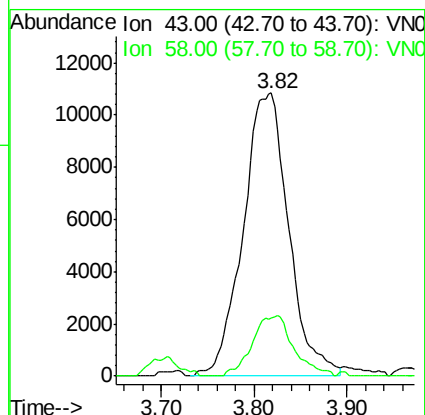
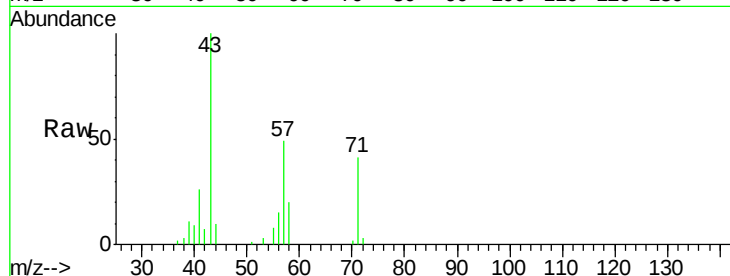
IDW-SOIL-01

Tot Ion: 43 Resp: 37020

Ion Ratio Lower Upper

43 100

58 19.0 27.1 40.7#



#20

Methylene Chloride

Concen: 708.975 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Tgt Ion: 84 Resp: 6245584

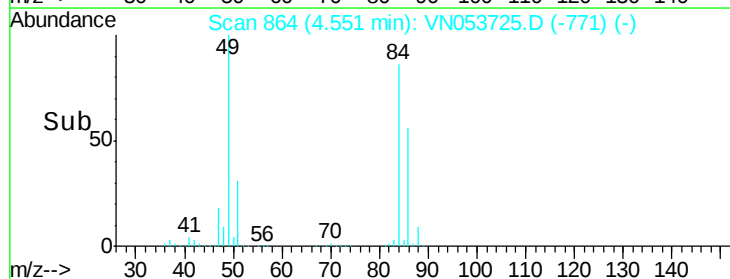
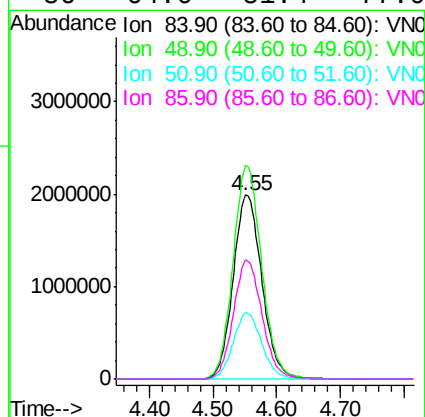
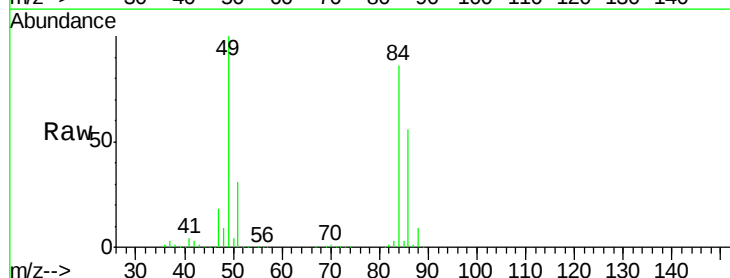
Ion Ratio Lower Upper

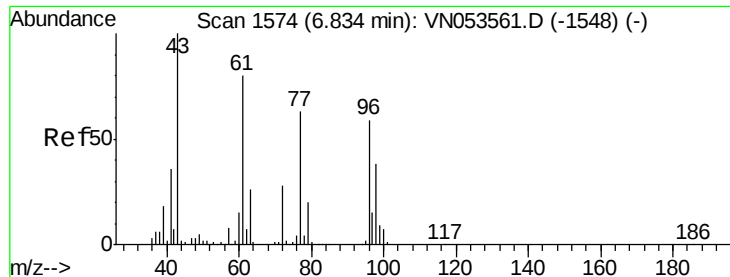
84 100

49 116.2 94.3 141.5

51 36.1 29.4 44.2

86 64.6 51.4 77.0





#25

2-Butanone

Concen: 3.035 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

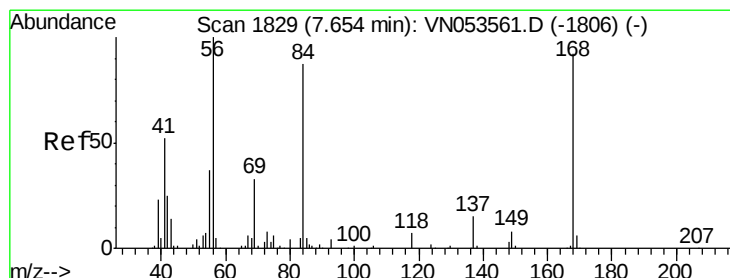
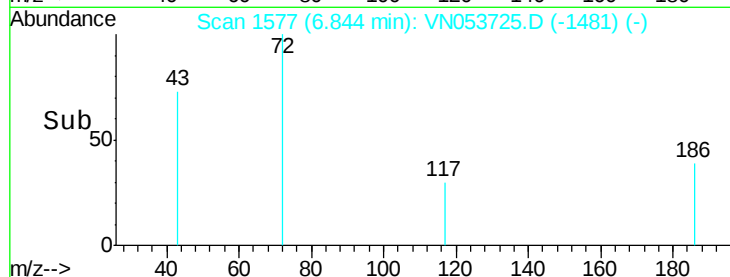
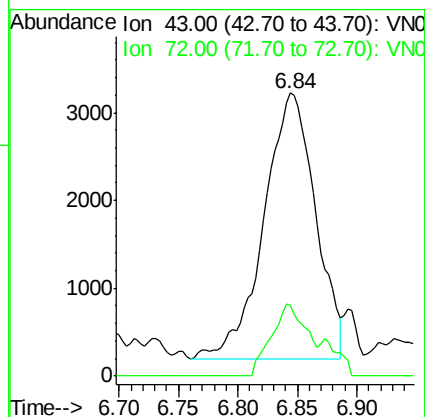
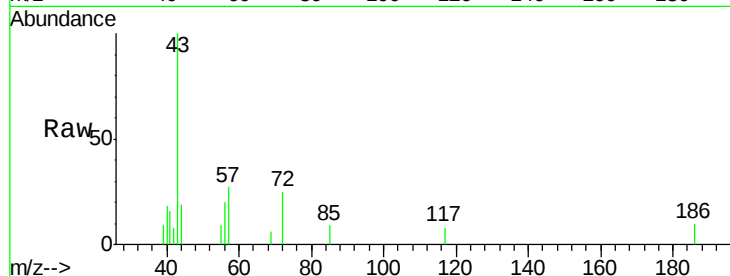
IDW-SOIL-01

Tot Ion: 43 Resp: 9090

Ion Ratio Lower Upper

43 100

72 26.5 22.0 33.0



#31

Cyclohexane

Concen: 6.668 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

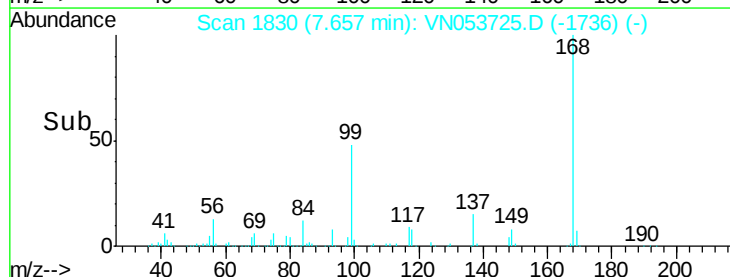
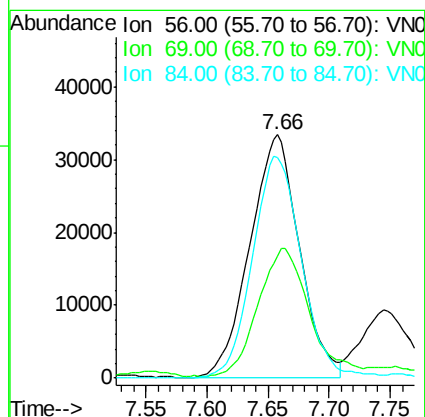
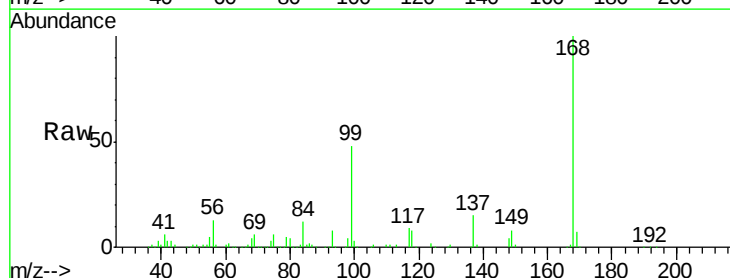
Tgt Ion: 56 Resp: 94351

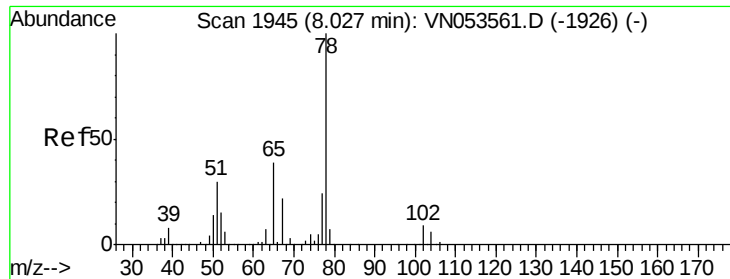
Ion Ratio Lower Upper

56 100

69 49.4 26.4 39.6#

84 90.8 67.9 101.9

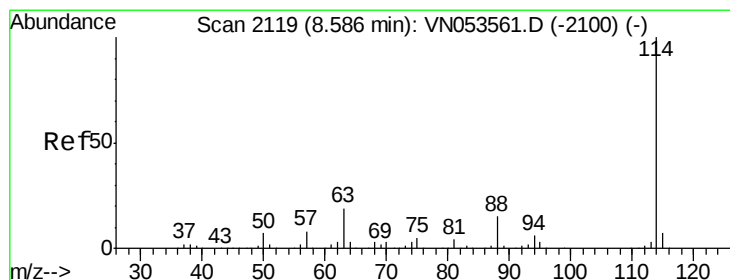
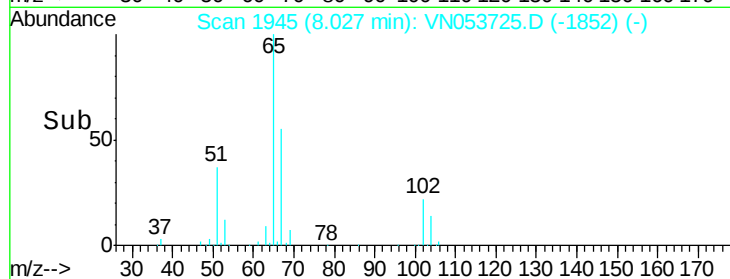
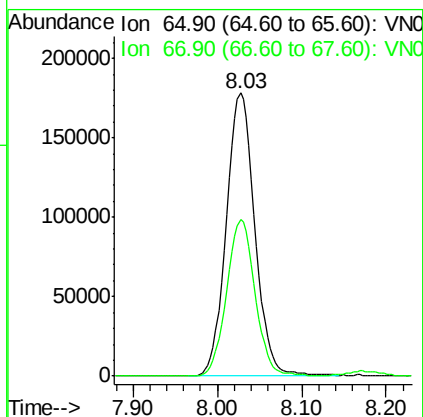
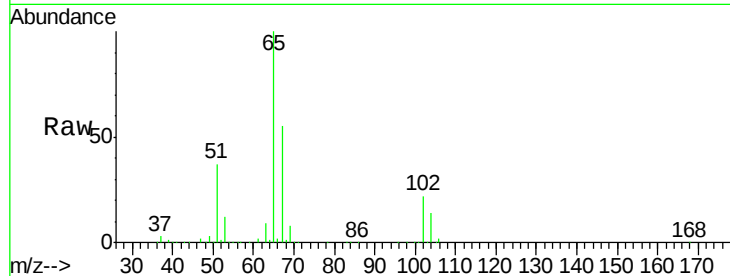




#33
 1,2-Dichloroethane-d4
 Concen: 51.401 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053725.D
 Acq: 12 Feb 2019 12:52

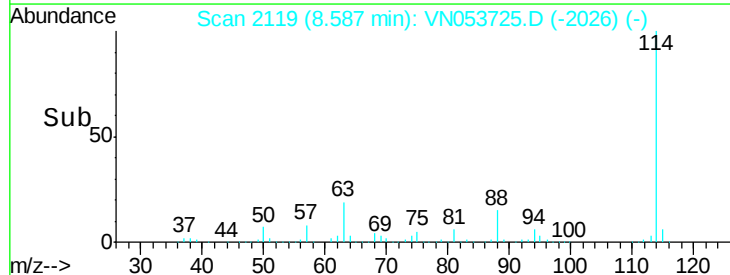
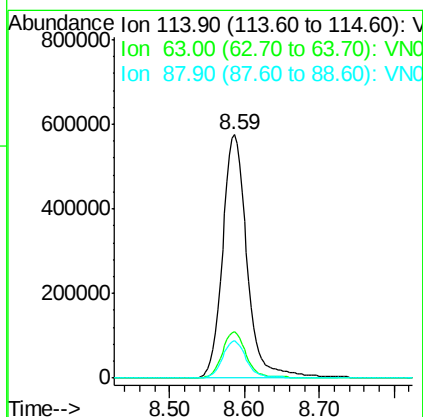
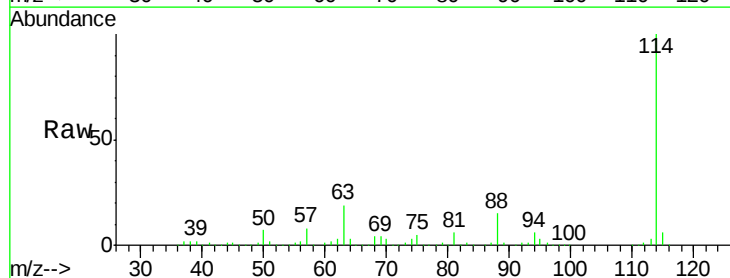
Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SOIL-01

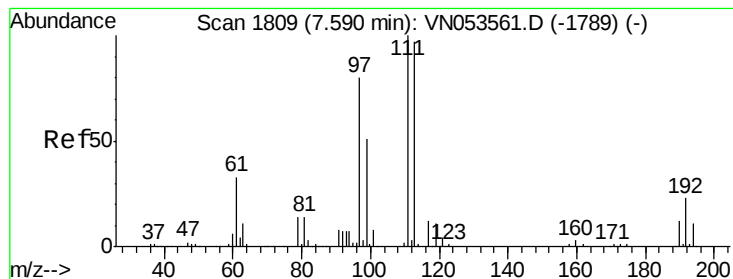
Tot Ion: 65 Resp: 420773
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053725.D
 Acq: 12 Feb 2019 12:52

Tgt Ion: 114 Resp: 1301627
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.003 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

IDW-SOIL-01

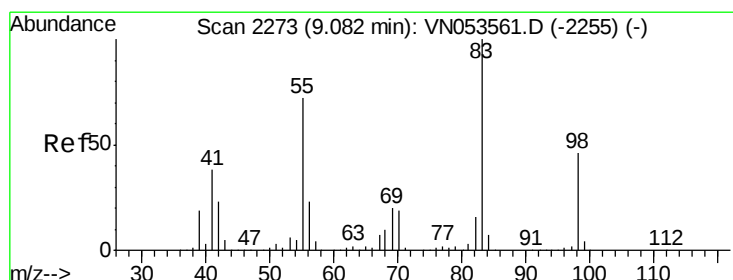
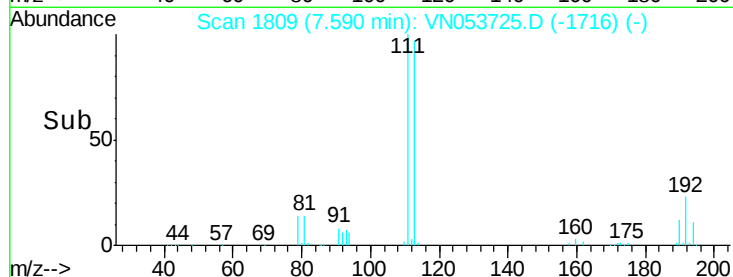
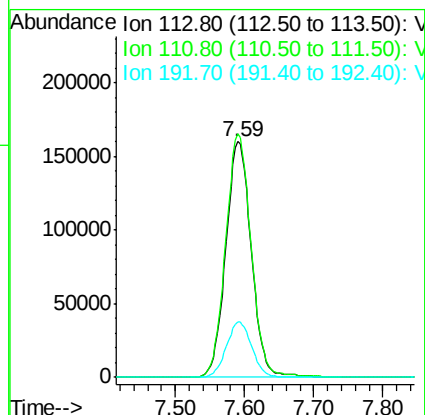
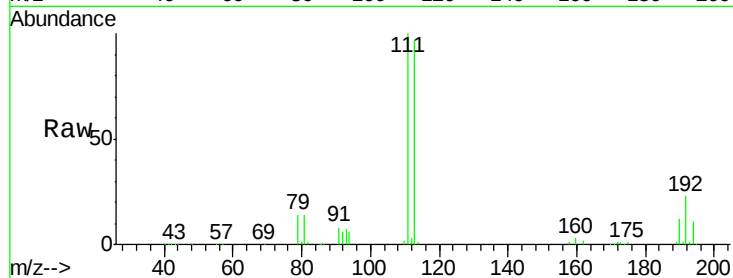
Tot Ion:113 Resp: 411257

Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

192 23.3 18.2 27.2



#39

Methylcyclohexane

Concen: 5.124 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

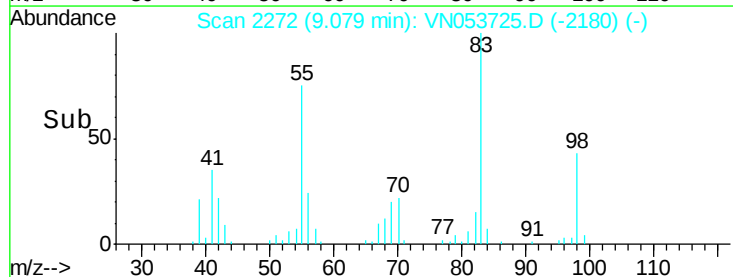
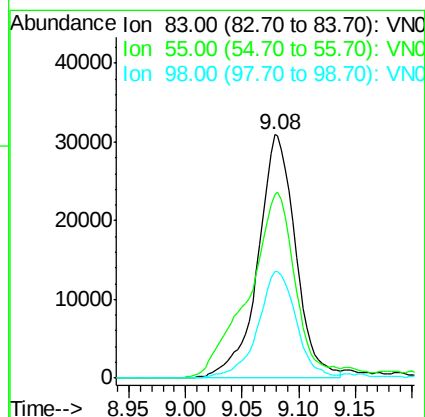
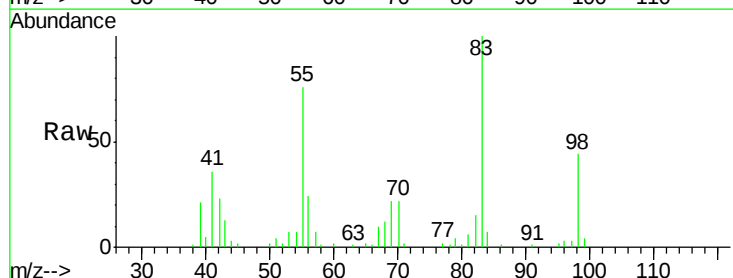
Tgt Ion: 83 Resp: 71332

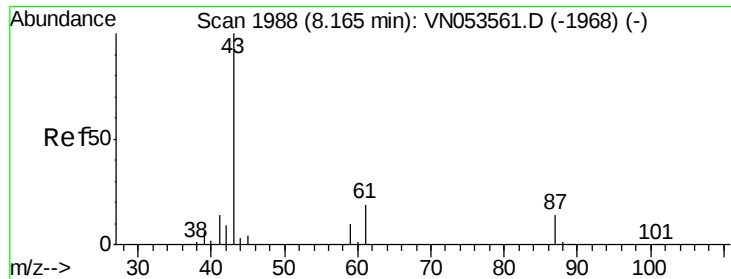
Ion Ratio Lower Upper

83 100

55 74.7 60.1 90.1

98 43.6 36.6 55.0





#43

Isopropyl Acetate

Concen: 3.168 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

IDW-SOIL-01

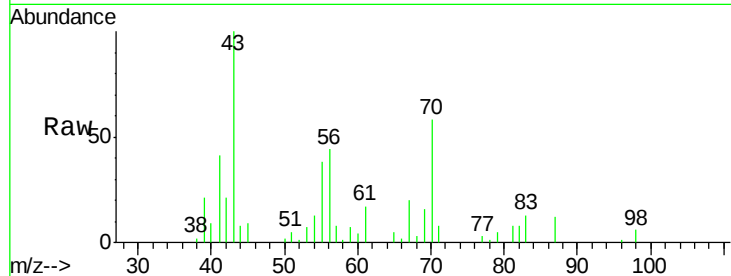
Tot Ion: 43 Resp: 40090

Ion Ratio Lower Upper

43 100

61 15.1 23.9 35.9#

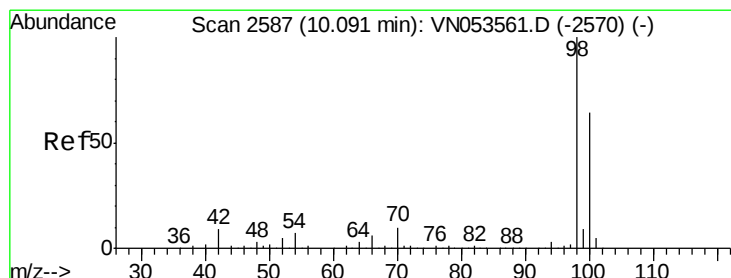
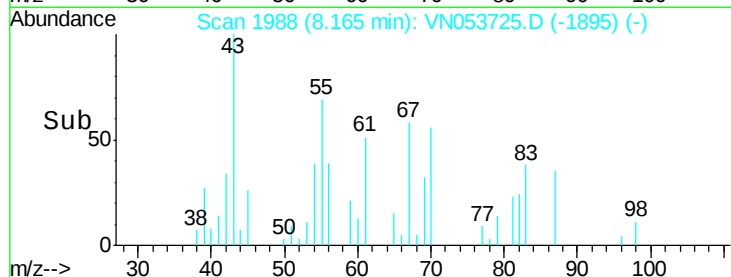
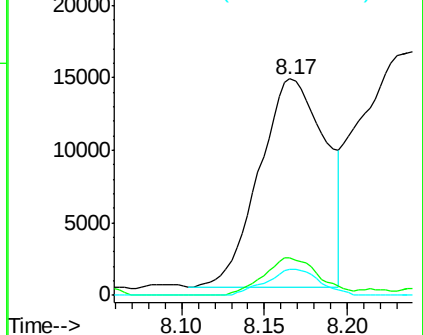
87 10.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 51.968 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053725.D

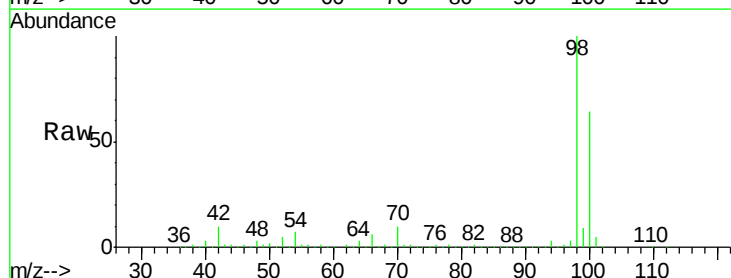
Acq: 12 Feb 2019 12:52

Tgt Ion: 98 Resp: 1604854

Ion Ratio Lower Upper

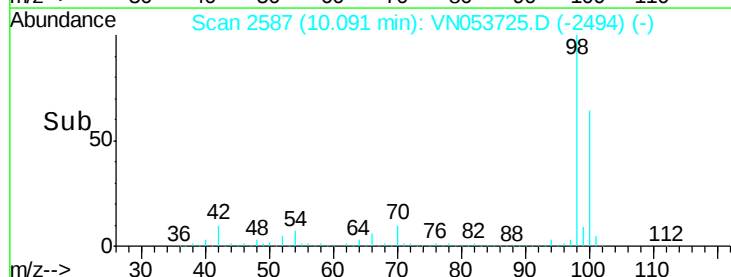
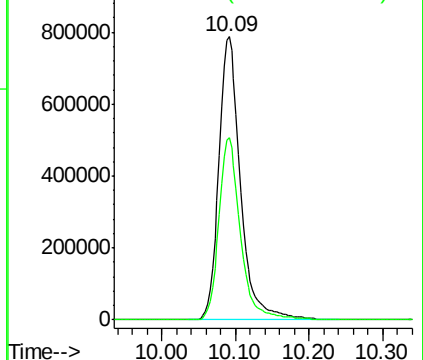
98 100

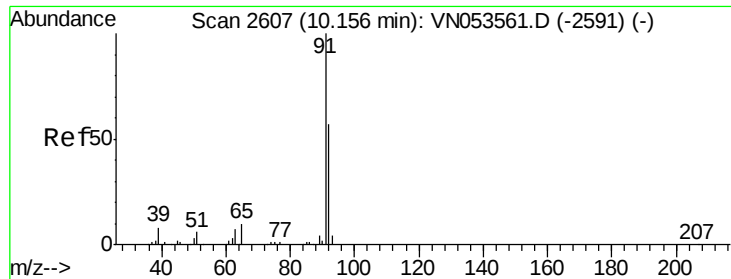
100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 10.466 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

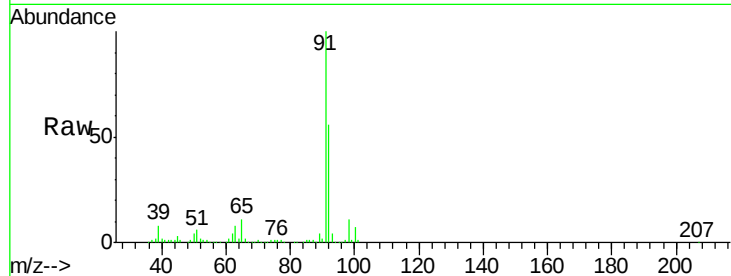
IDW-SOIL-01

Tot Ion: 92 Resp: 224759

Ion Ratio Lower Upper

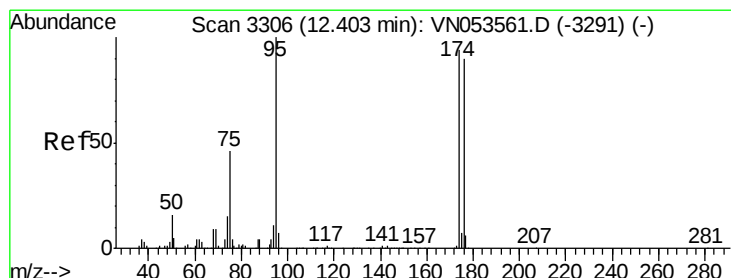
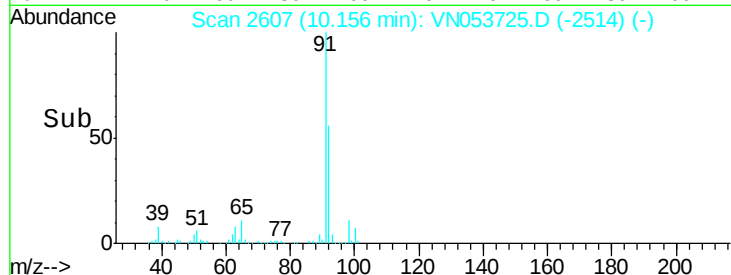
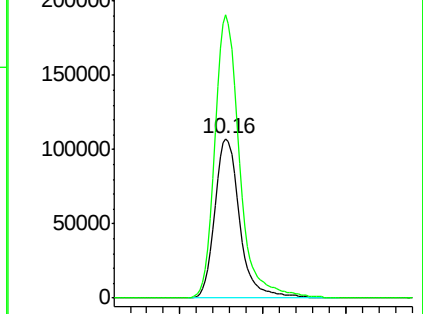
92 100

91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 53.844 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

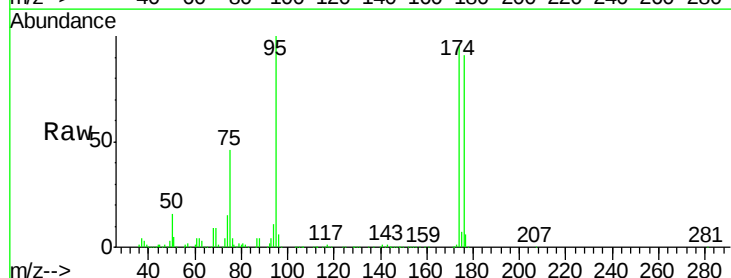
Tgt Ion: 95 Resp: 554566

Ion Ratio Lower Upper

95 100

174 93.9 0.0 183.2

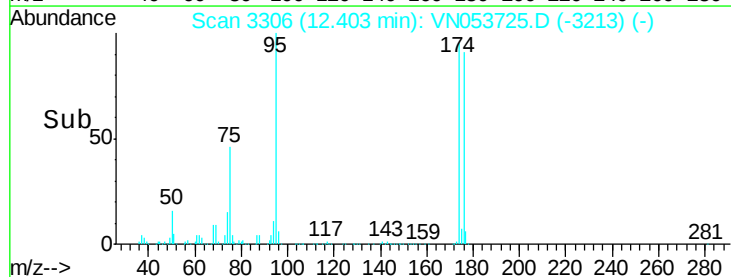
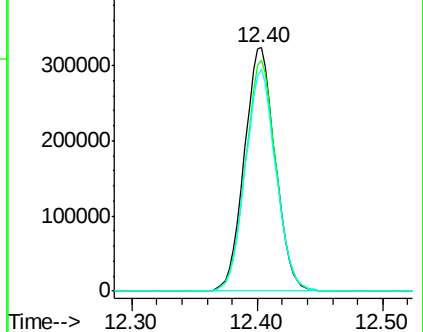
176 90.3 0.0 177.4

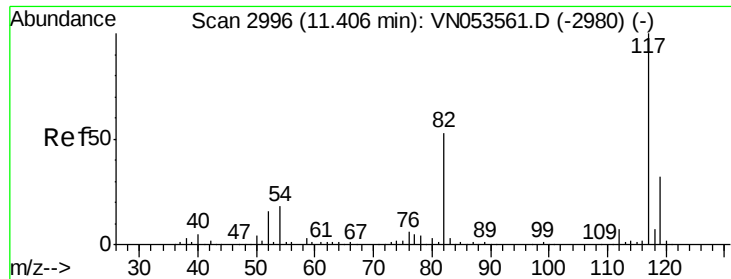


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

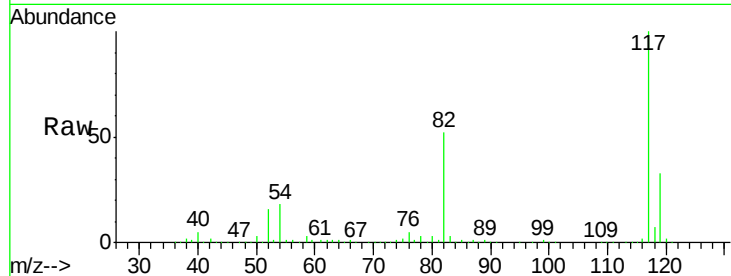




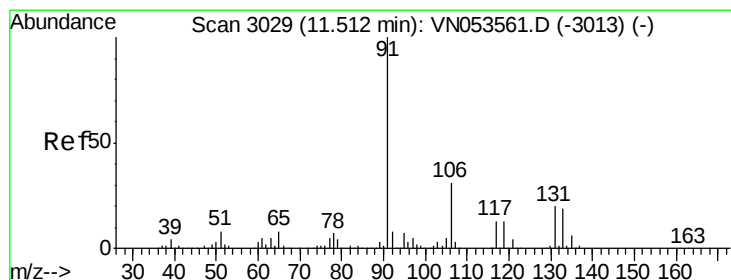
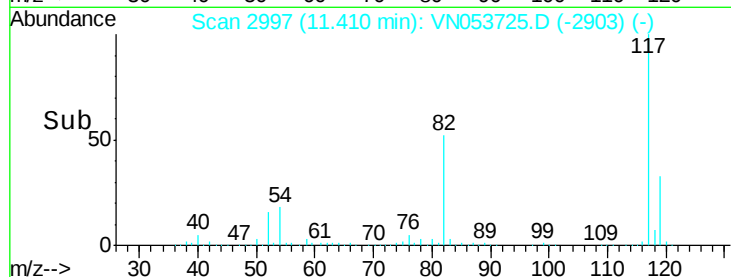
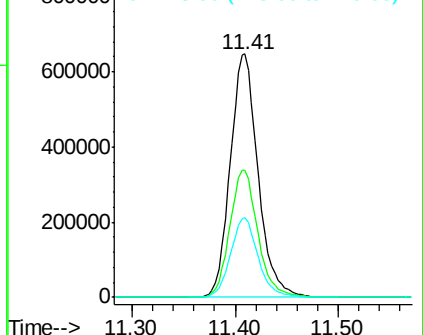
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053725.D
Acq: 12 Feb 2019 12:52

Instrument :
MSVOA_N
ClientSampled :
IDW-SOIL-01

Tot Ion:117 Resp: 1217075
Ion Ratio Lower Upper
117 100
82 52.1 42.9 64.3
119 32.7 26.0 39.0

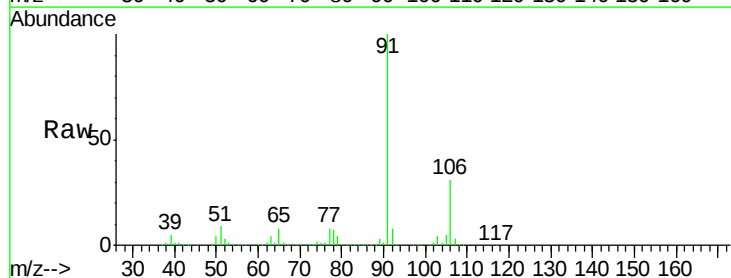


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

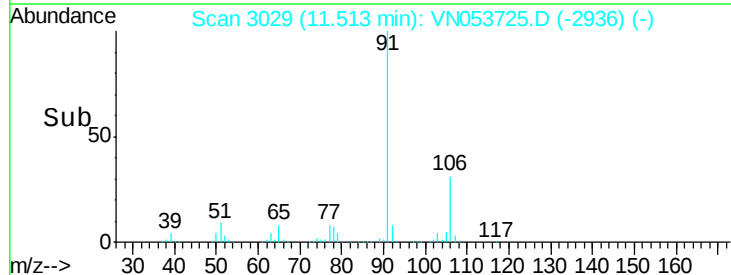
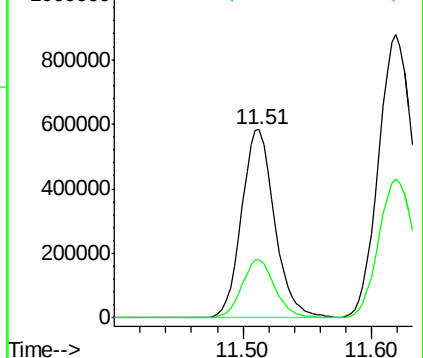


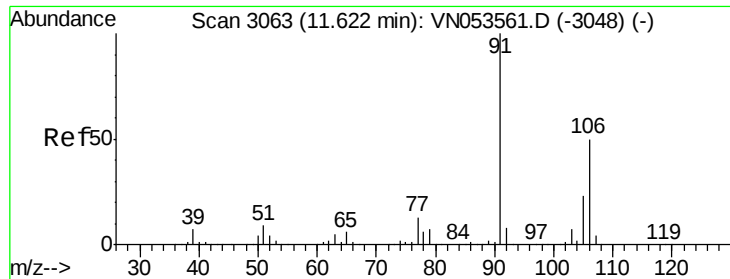
#67
Ethyl Benzene
Concen: 24.528 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053725.D
Acq: 12 Feb 2019 12:52

Tgt Ion: 91 Resp: 1041607
Ion Ratio Lower Upper
91 100
106 31.2 25.0 37.6



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

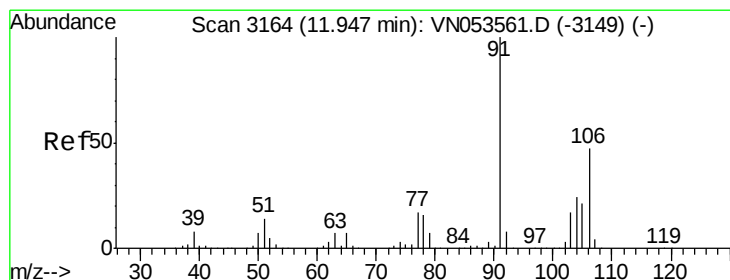
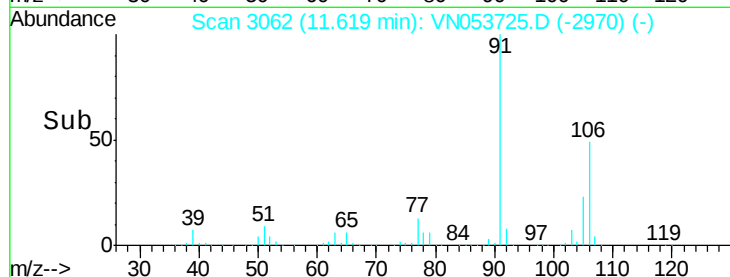
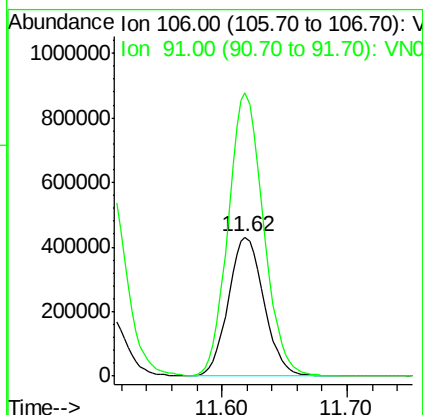
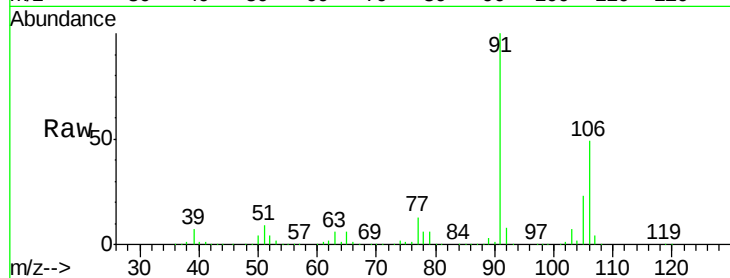




#68
m/p-Xylenes
Concen: 52.170 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053725.D
Acq: 12 Feb 2019 12:52

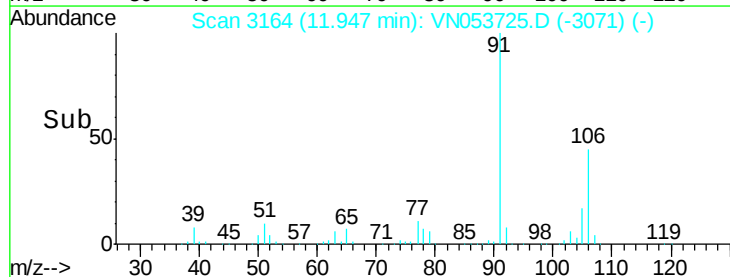
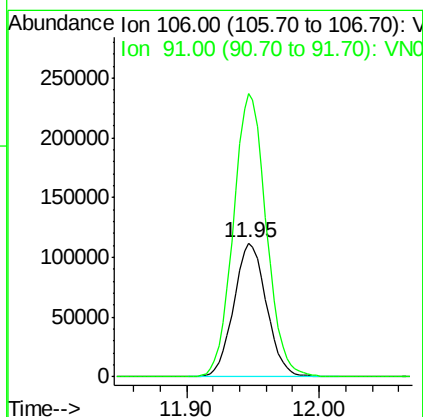
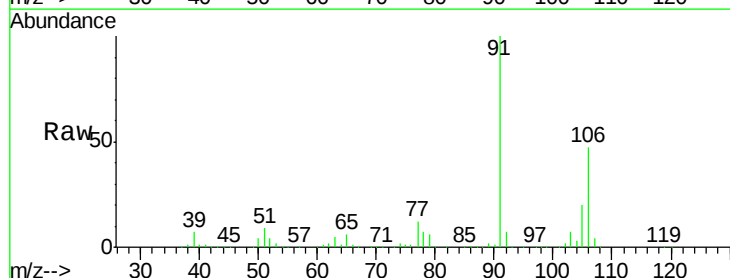
Instrument :
MSVOA_N
ClientSampleId :
IDW-SOIL-01

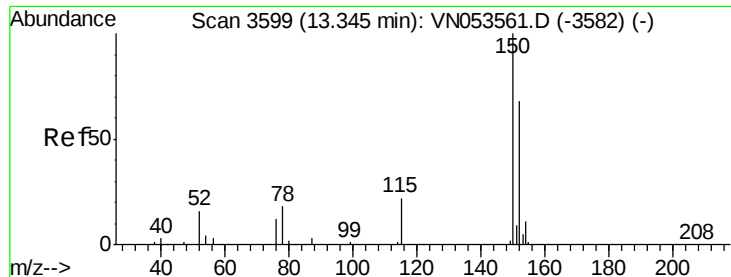
Tot Ion:106 Resp: 845572
Ion Ratio Lower Upper
106 100
91 202.2 161.4 242.2



#69
o-Xylene
Concen: 12.265 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053725.D
Acq: 12 Feb 2019 12:52

Tgt Ion:106 Resp: 192045
Ion Ratio Lower Upper
106 100
91 213.0 106.9 320.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

IDW-SOIL-01

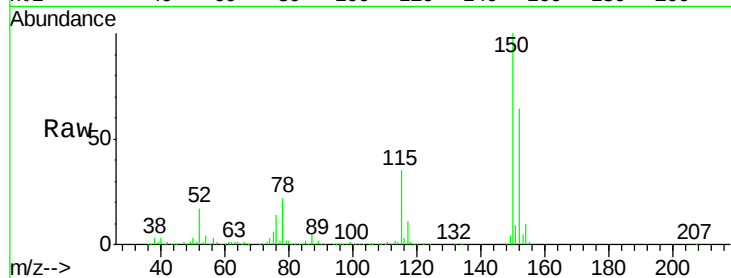
Tot Ion:152 Resp: 551140

Ion Ratio Lower Upper

152 100

115 57.3 27.8 83.4

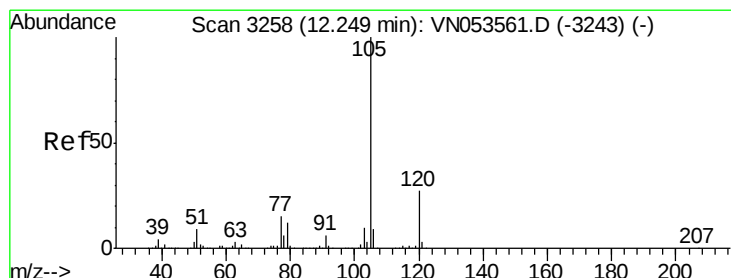
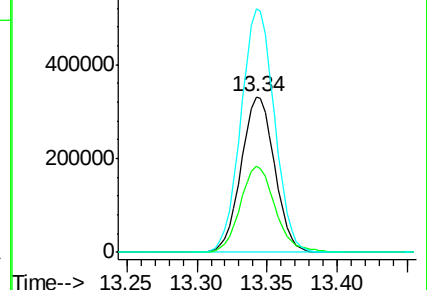
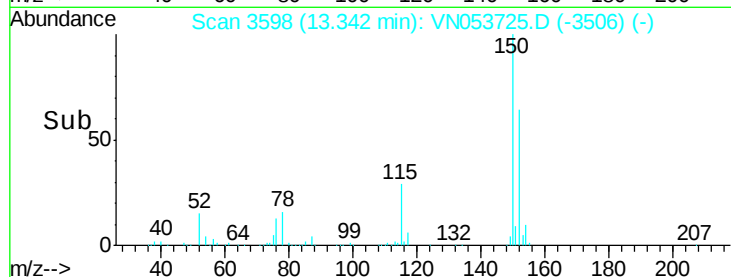
150 156.9 0.0 349.0



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



#73

Isopropylbenzene

Concen: 2.832 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053725.D

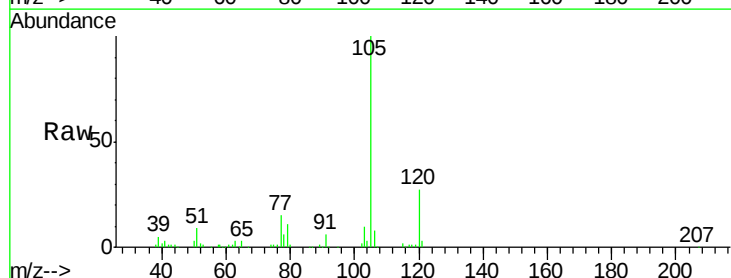
Acq: 12 Feb 2019 12:52

Tgt Ion:105 Resp: 109723

Ion Ratio Lower Upper

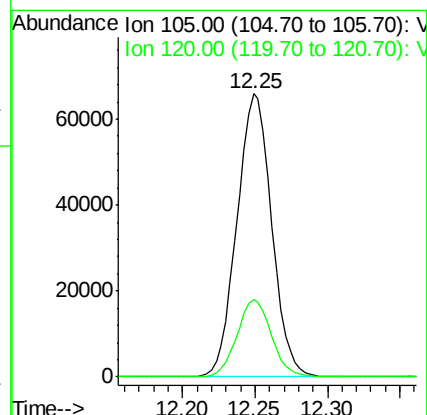
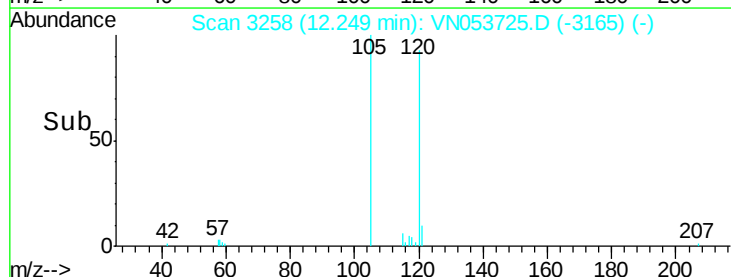
105 100

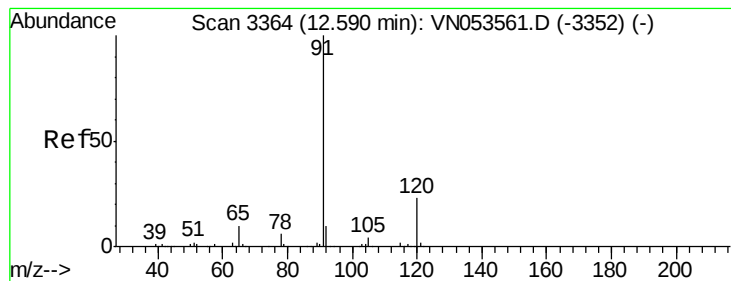
120 27.0 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 6.571 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053725.D

Acq: 12 Feb 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

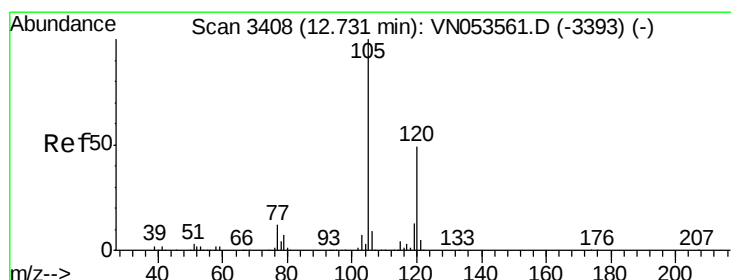
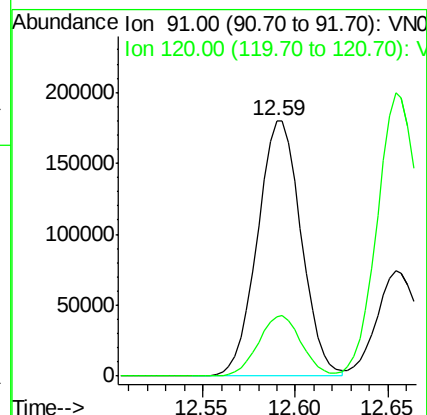
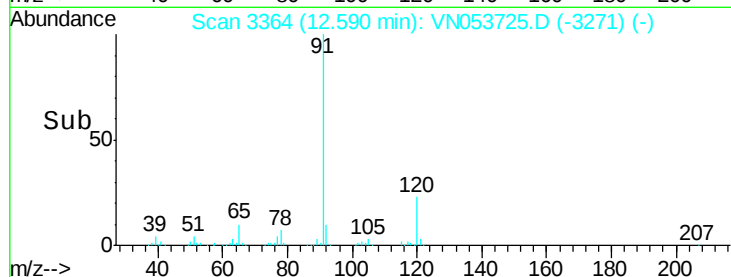
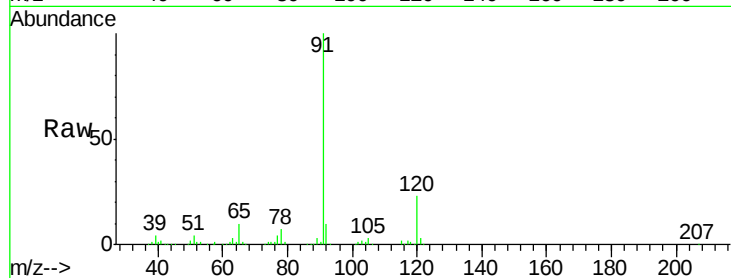
IDW-SOIL-01

Tot Ion: 91 Resp: 294319

Ion Ratio Lower Upper

91 100

120 23.2 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 14.070 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053725.D

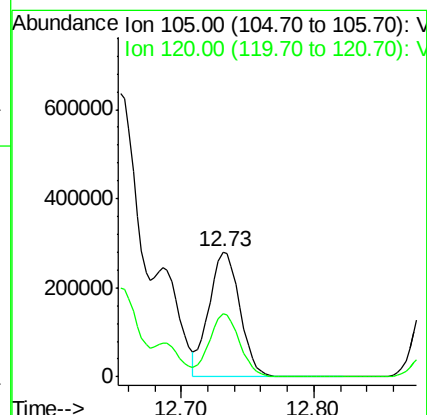
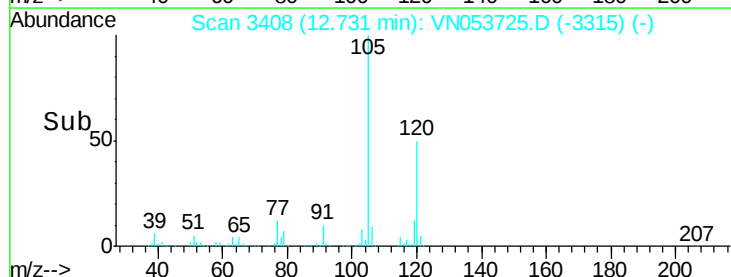
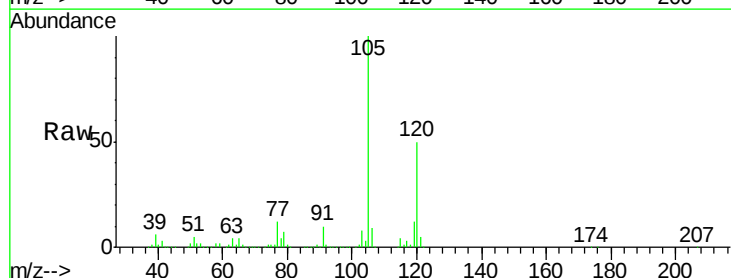
Acq: 12 Feb 2019 12:52

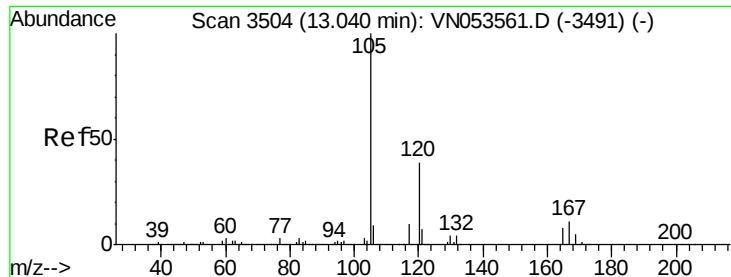
Tgt Ion: 105 Resp: 452057

Ion Ratio Lower Upper

105 100

120 49.6 24.9 74.6

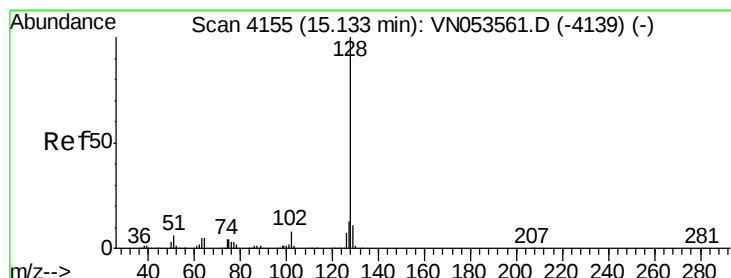
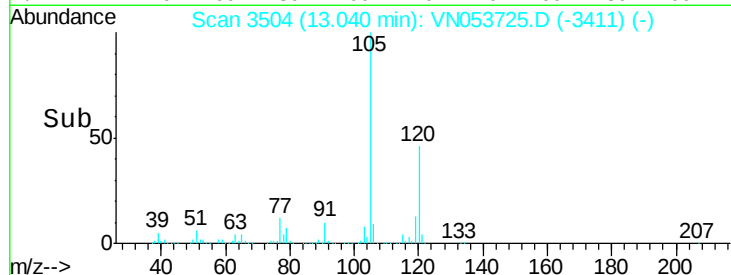
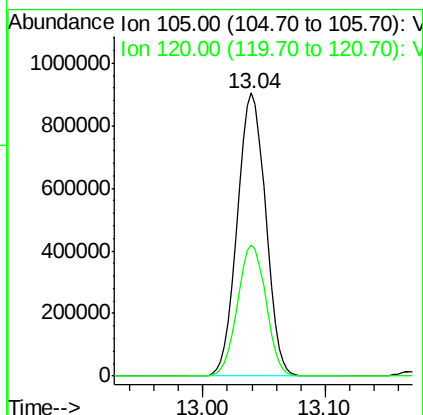
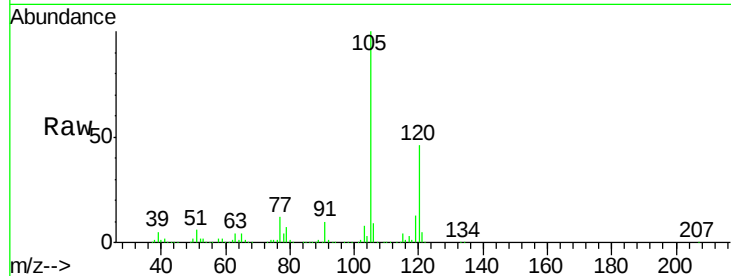




#84
 1,2,4-Trimethylbenzene
 Concen: 44.325 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053725.D
 Acq: 12 Feb 2019 12:52

Instrument :
 MSVOA_N
 ClientSampled :
 IDW-SOIL-01

Tot Ion:105 Resp: 1450876
 Ion Ratio Lower Upper
 105 100
 120 46.5 23.0 69.0



#95
 Naphthalene
 Concen: 13.222 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053725.D
 Acq: 12 Feb 2019 12:52

Tgt Ion:128 Resp: 288080
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.3 15.5
 129 10.4 8.6 13.0

