

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070919\
 Data File : VX010763.D
 Acq On : 09 Jul 2019 20:04
 Operator : JC/SP
 Sample : K3695-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-SAMPLE-2

Quant Time: Jul 10 04:48:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	225492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	353400	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	332530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168474	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	113676	53.77	ug/l	0.00
Spiked Amount			Recovery	=	107.54%	
35) Dibromofluoromethane	5.50	113	106734	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	8.71	98	428951	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.13	95	152762	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	

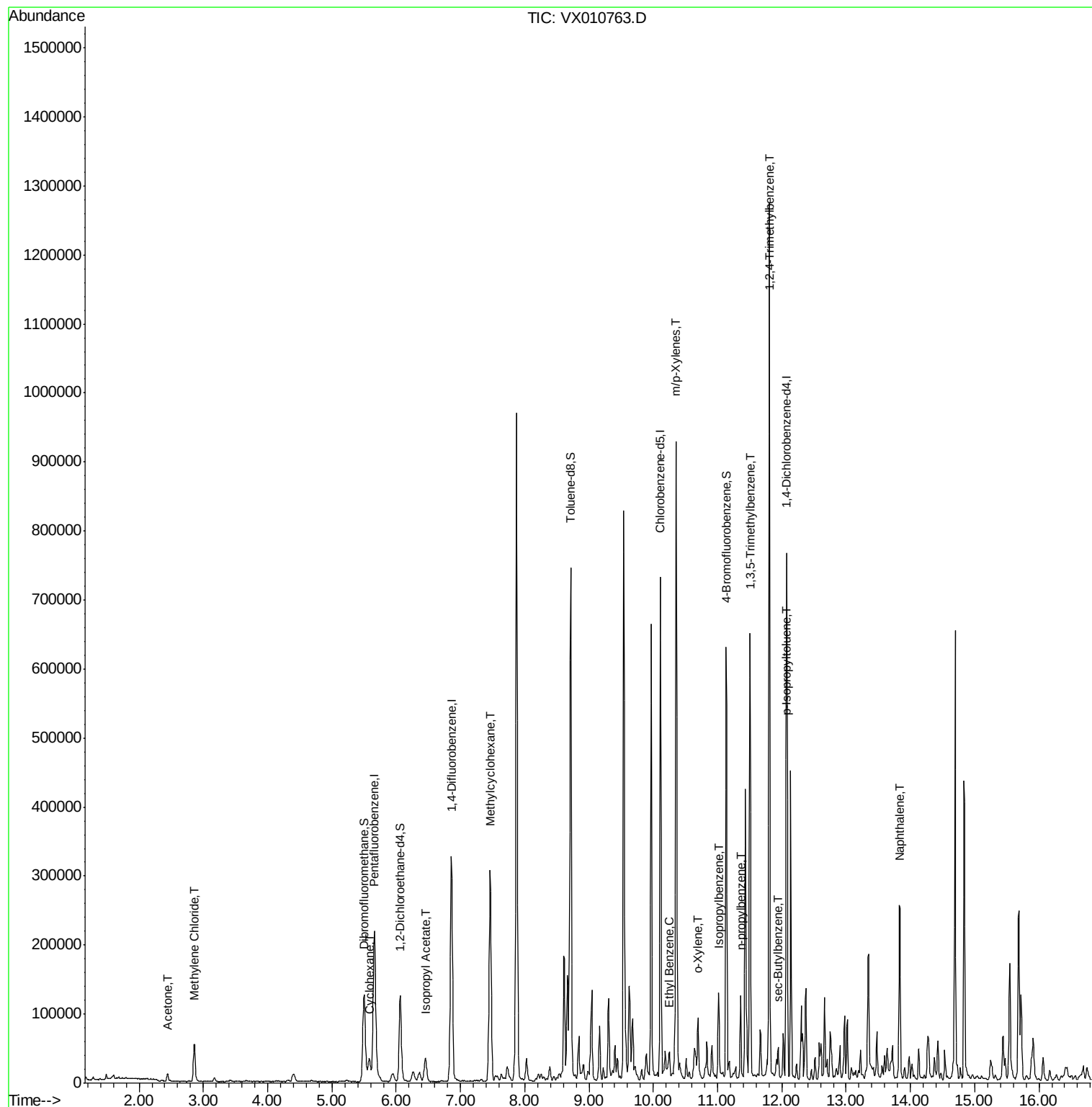
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.44	43	11253	10.620	ug/l #	86
20) Methylene Chloride	2.86	84	27016	12.390	ug/l	96
31) Cyclohexane	5.58	56	22104	7.238	ug/l	97
39) Methylcyclohexane	7.46	83	143380	38.841	ug/l	96
43) Isopropyl Acetate	6.45	43	12730	2.663	ug/l	96
67) Ethyl Benzene	10.25	91	15893	1.394	ug/l	97
68) m/p-Xylenes	10.35	106	219236	49.645	ug/l	99
69) o-Xylene	10.69	106	9978	2.298	ug/l	97
73) Isopropylbenzene	11.02	105	66384	5.813	ug/l	98
78) n-propylbenzene	11.36	91	73341	5.843	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	276050	29.321	ug/l	100
84) 1,2,4-Trimethylbenzene	11.80	105	543763	57.487	ug/l	99
85) sec-Butylbenzene	11.94	105	22247	2.005	ug/l	99
86) p-Isopropyltoluene	12.06	119	12416	1.210	ug/l	93
95) Naphthalene	13.83	128	164731	13.972	ug/l	98

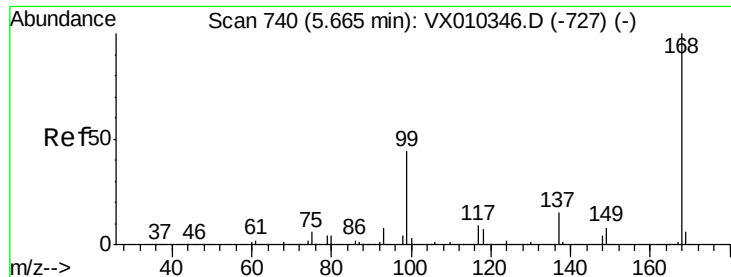
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

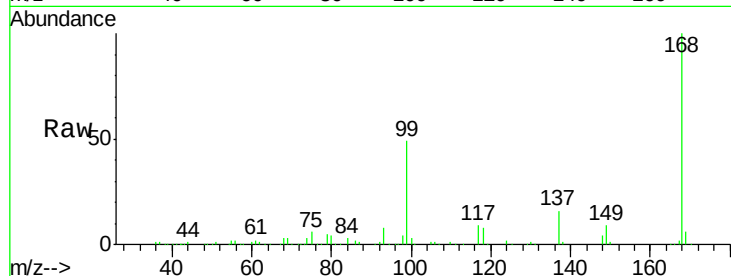
SOIL-SAMPLE-2

Tot Ion:168 Resp: 225492

Ion Ratio Lower Upper

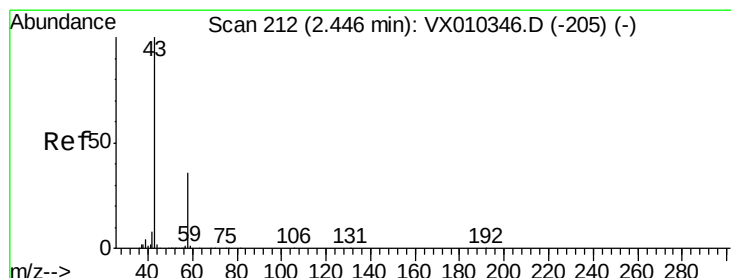
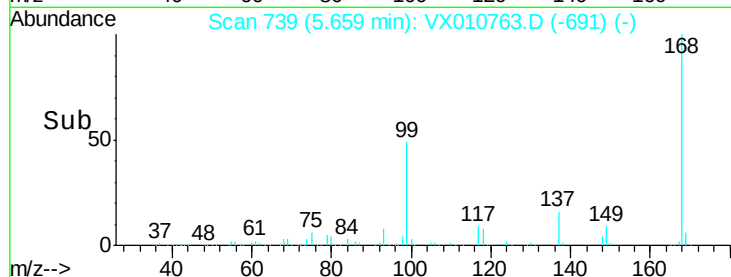
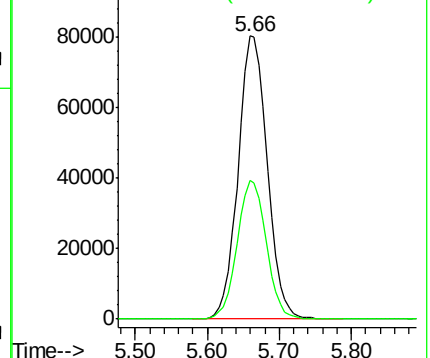
168 100

99 48.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 10.620 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010763.D

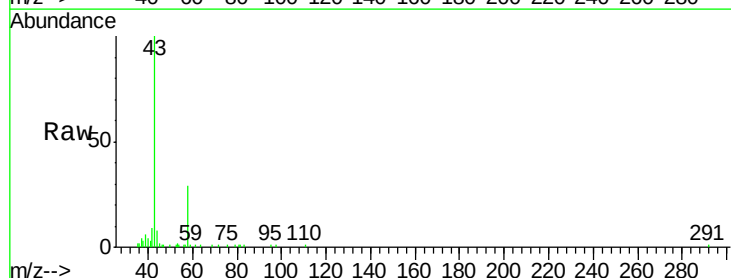
Acq: 09 Jul 2019 20:04

Tgt Ion: 43 Resp: 11253

Ion Ratio Lower Upper

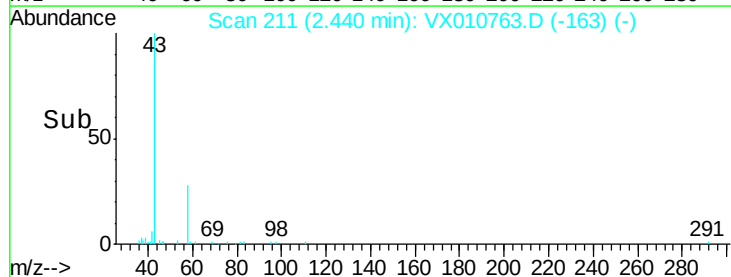
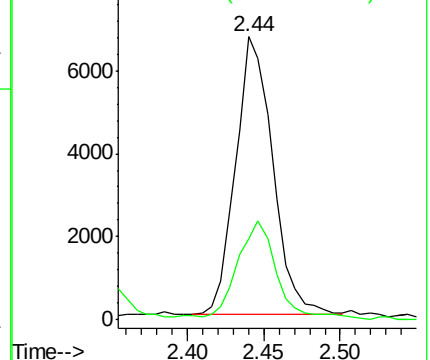
43 100

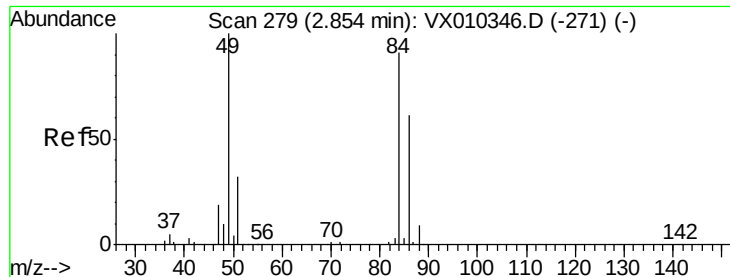
58 28.1 28.9 43.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

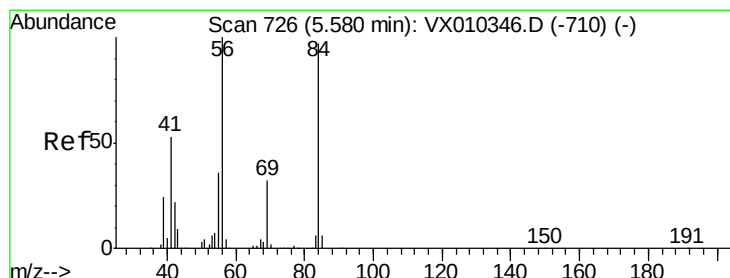
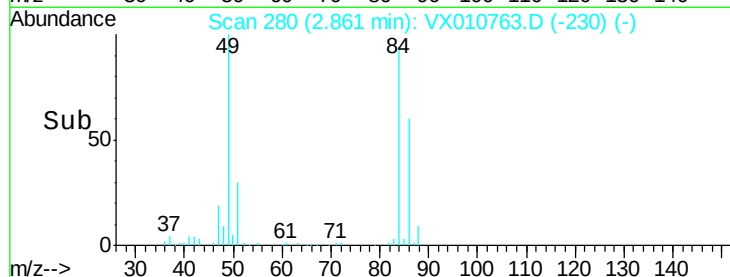
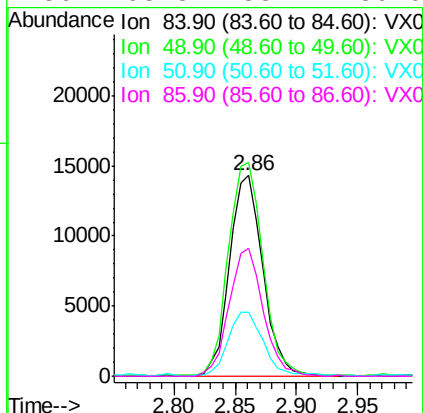
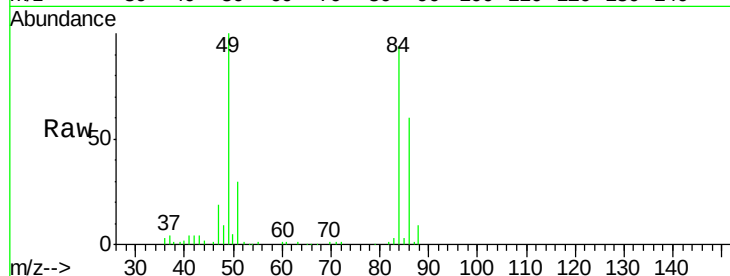




#20
Methylene Chloride
Concen: 12.390 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

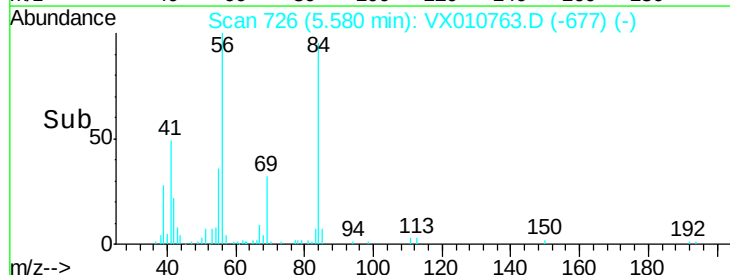
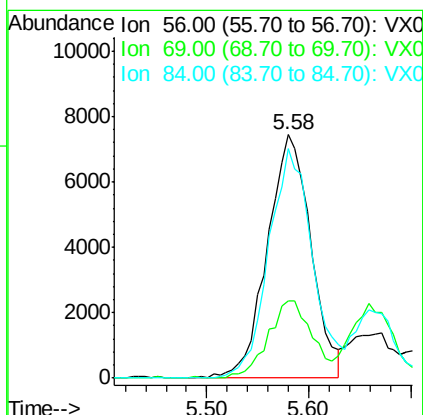
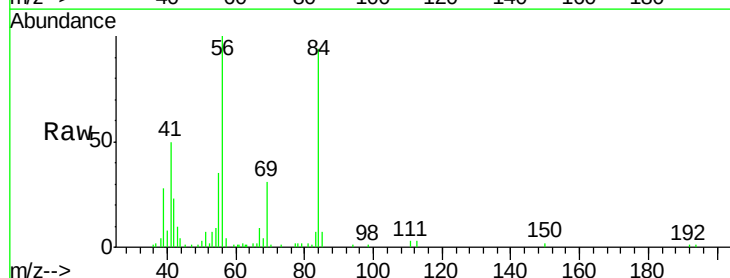
Instrument :
MSVOA_X
ClientSampleId :
SOIL-SAMPLE-2

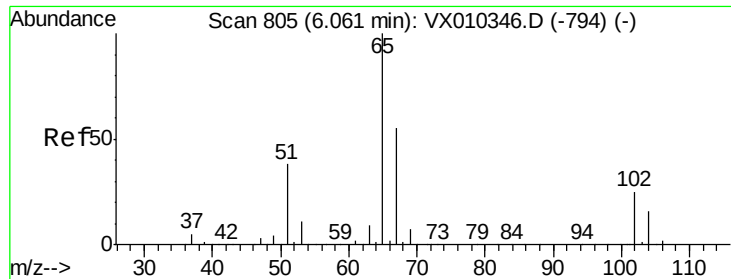
Tot Ion:	84	Resp:	27016
Ion	Ratio	Lower	Upper
84	100		
49	105.9	87.5	131.3
51	32.0	27.7	41.5
86	63.8	53.4	80.0



#31
Cyclohexane
Concen: 7.238 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

Tgt Ion:	56	Resp:	22104
Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.9	38.9
84	94.4	78.0	117.0

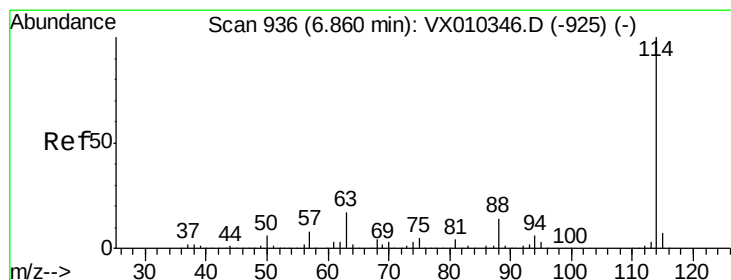
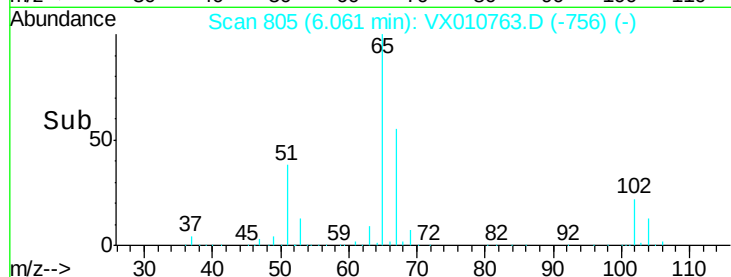
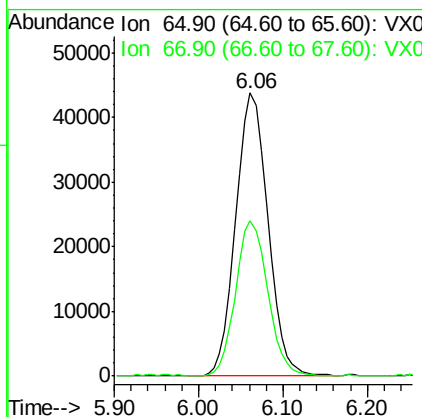
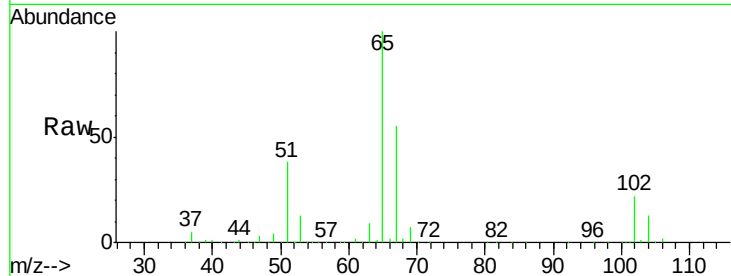




#33
 1,2-Dichloroethane-d4
 Concen: 53.768 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

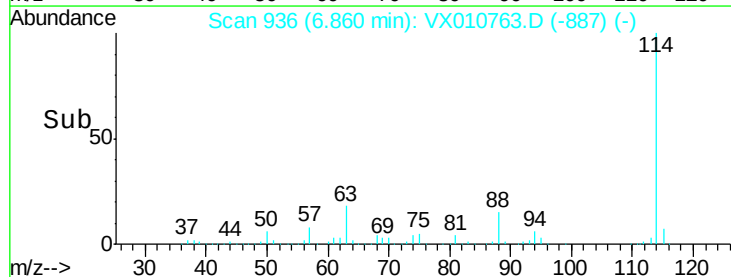
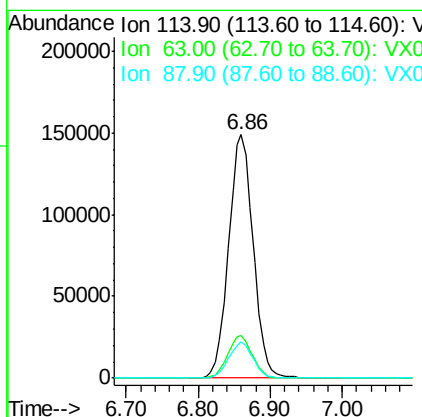
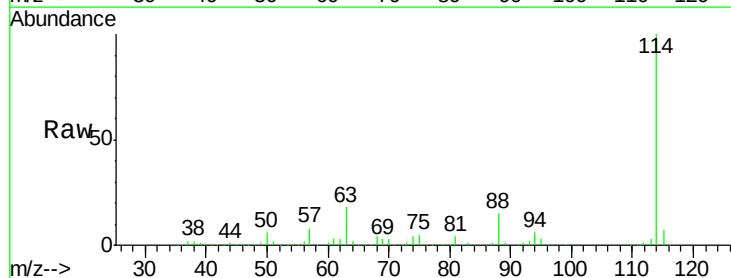
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-SAMPLE-2

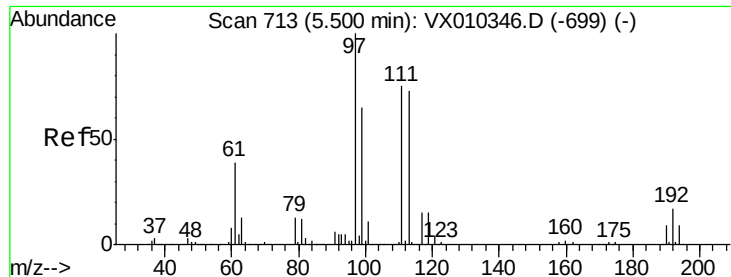
Tot Ion: 65 Resp: 113676
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

Tgt Ion: 114 Resp: 353400
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 33.8
 88 14.7 0.0 27.6





#35

Dibromofluoromethane

Concen: 49.363 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

SOIL-SAMPLE-2

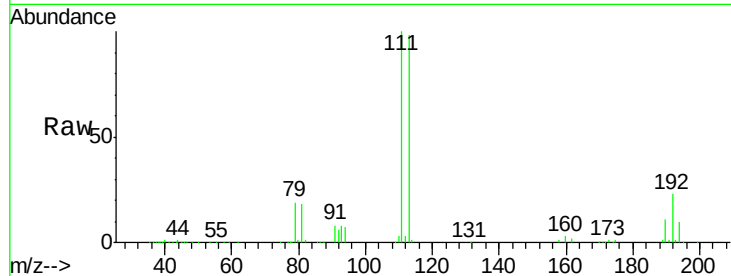
Tot Ion:113 Resp: 106734

Ion Ratio Lower Upper

113 100

111 102.4 81.2 121.8

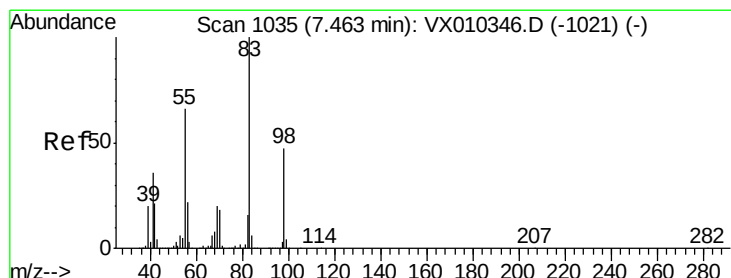
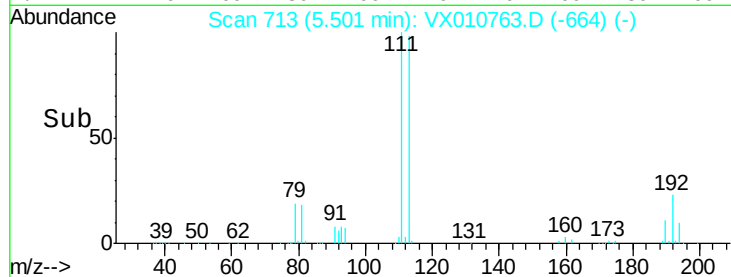
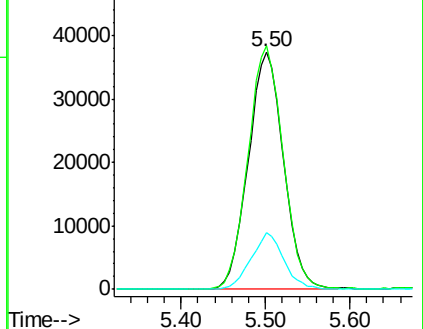
192 22.2 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 38.841 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

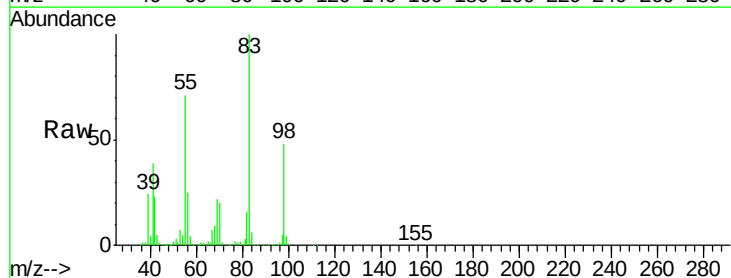
Tgt Ion: 83 Resp: 143380

Ion Ratio Lower Upper

83 100

55 70.6 53.0 79.6

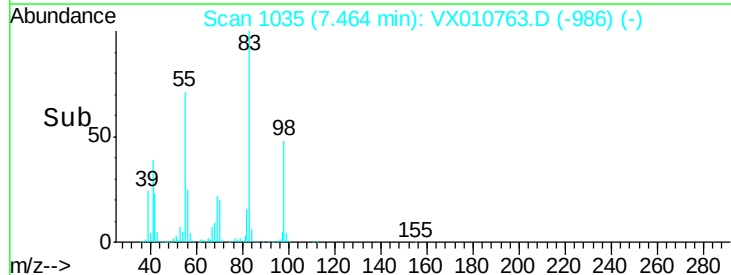
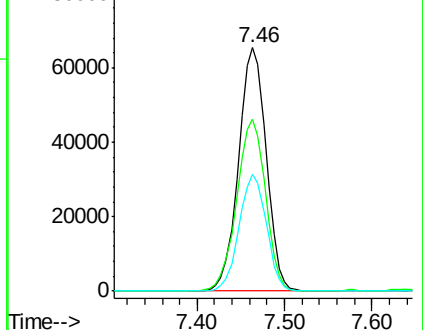
98 48.0 37.8 56.8

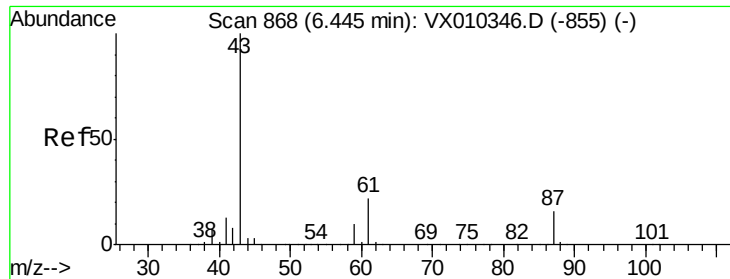


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#43

Isopropyl Acetate

Concen: 2.663 ug/l

RT: 6.45 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

SOIL-SAMPLE-2

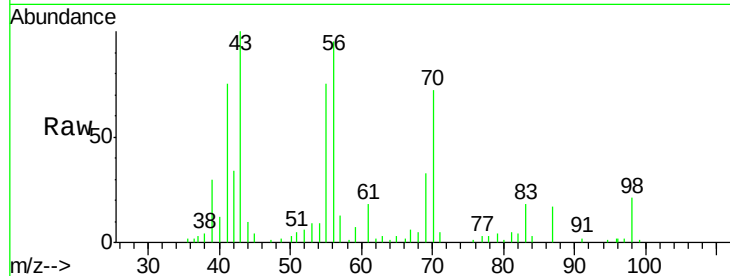
Tot Ion: 43 Resp: 12730

Ion Ratio Lower Upper

43 100

61 19.4 17.8 26.6

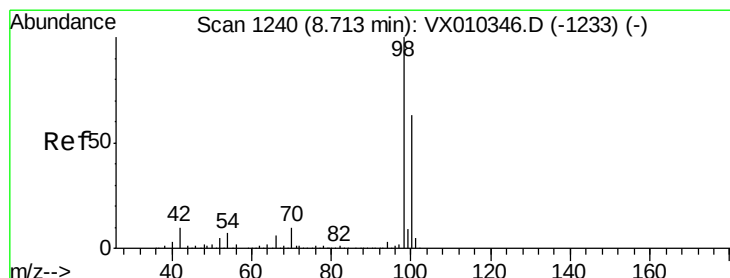
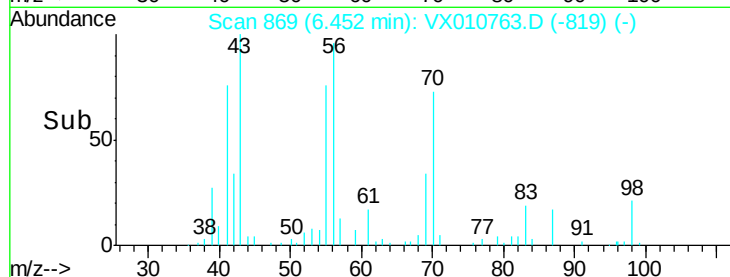
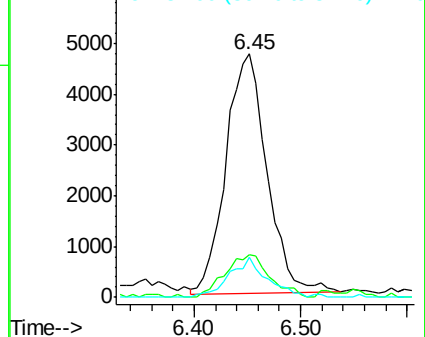
87 15.2 13.0 19.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 51.854 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010763.D

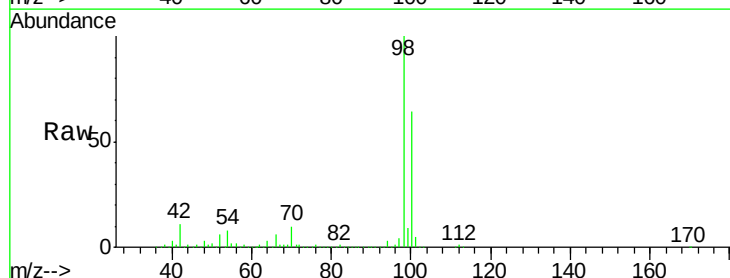
Acq: 09 Jul 2019 20:04

Tgt Ion: 98 Resp: 428951

Ion Ratio Lower Upper

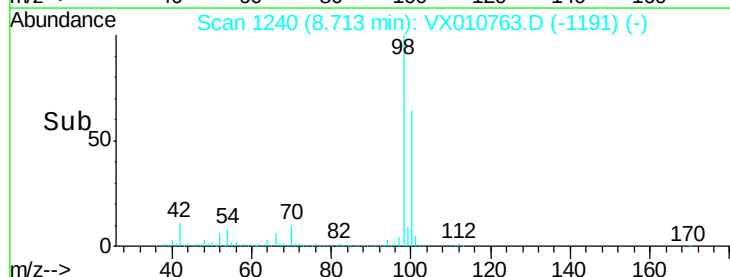
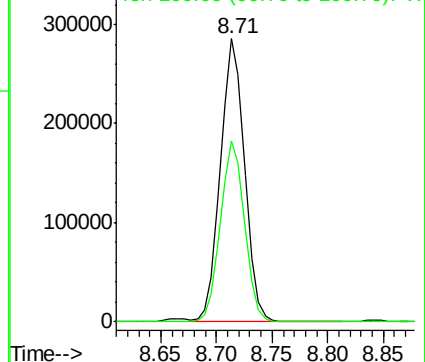
98 100

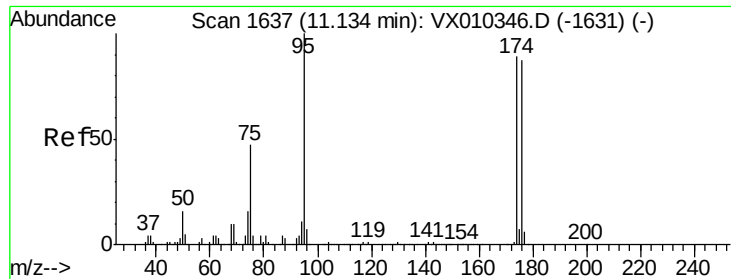
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

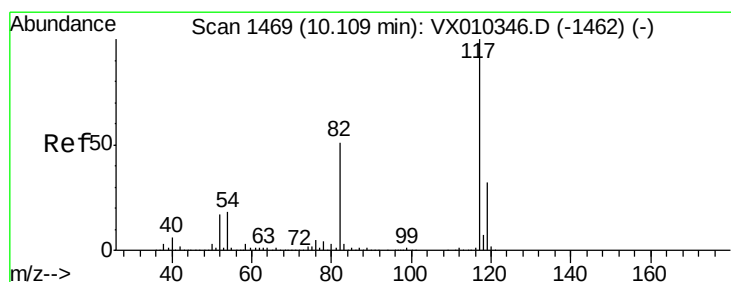
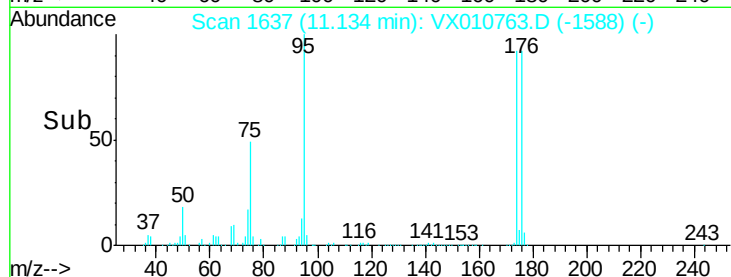
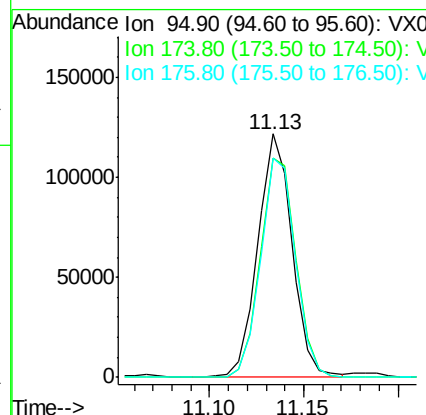
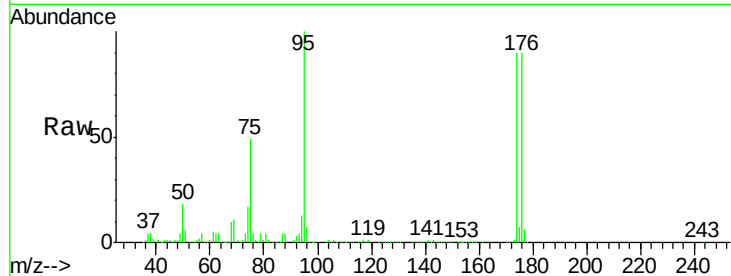




#62
4-Bromofluorobenzene
Concen: 51.150 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

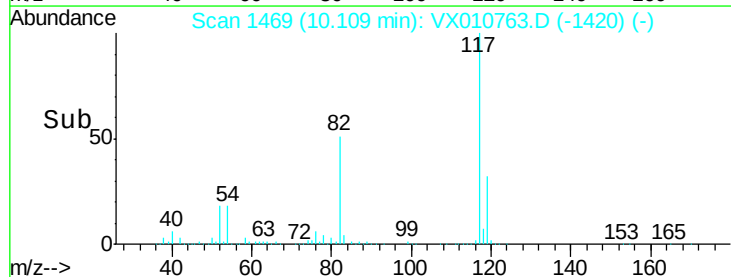
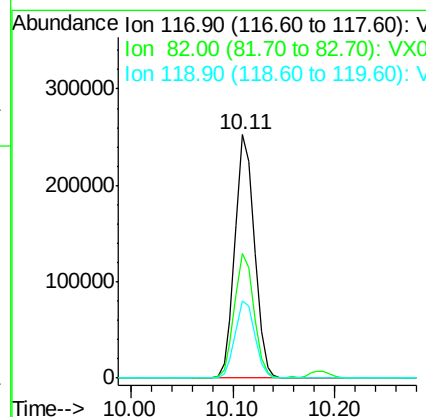
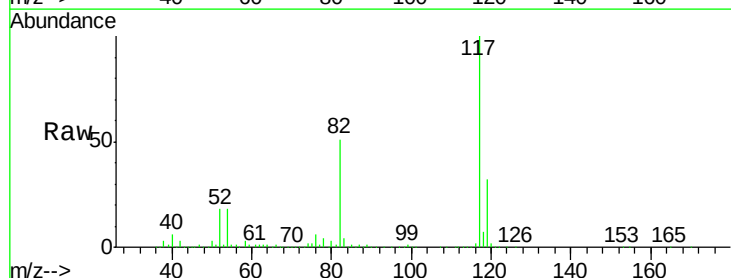
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SOIL-SAMPLE-2

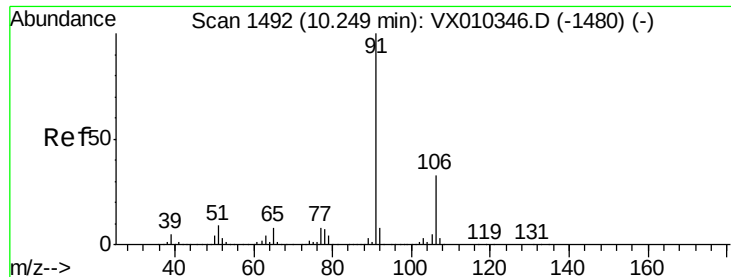
Tot Ion: 95 Resp: 152762
Ion Ratio Lower Upper
95 100
174 93.7 0.0 187.6
176 91.8 0.0 184.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

Tgt Ion: 117 Resp: 332530
Ion Ratio Lower Upper
117 100
82 51.0 41.2 61.8
119 31.8 25.5 38.3

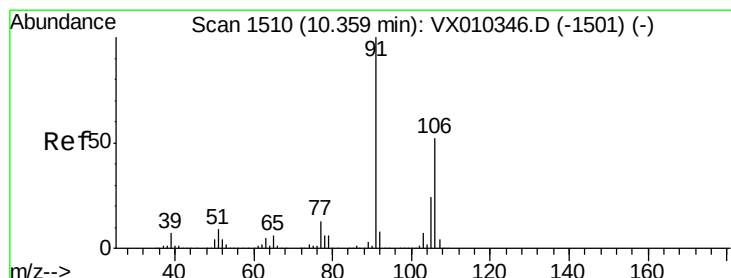
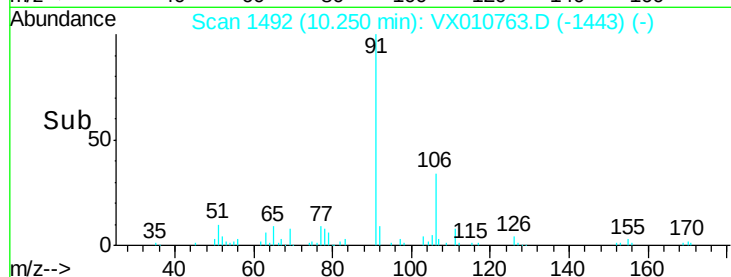
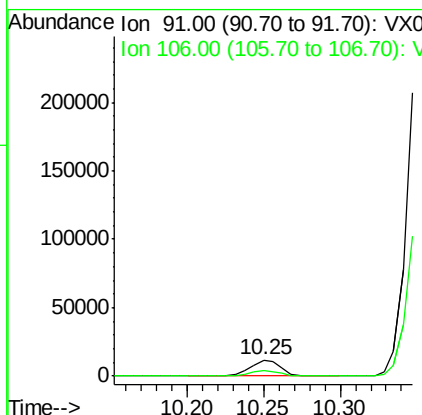
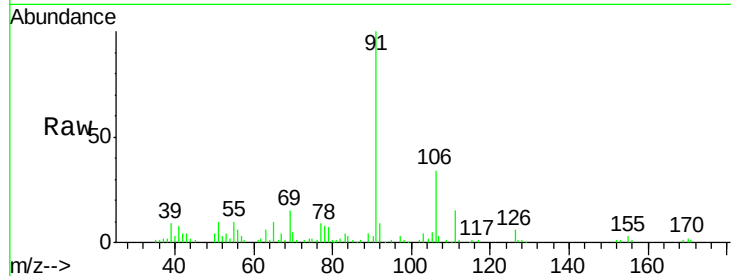




#67
Ethyl Benzene
Concen: 1.394 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

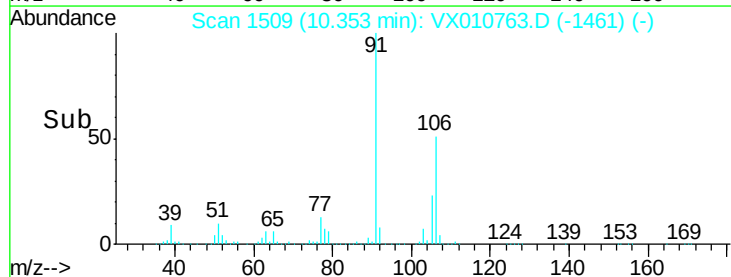
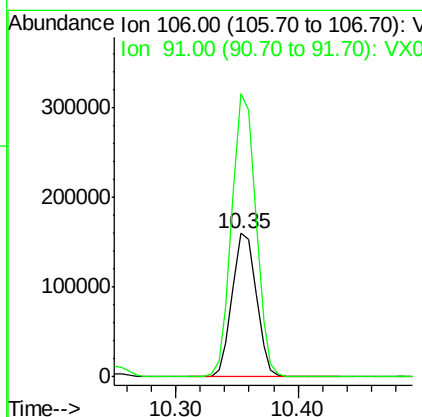
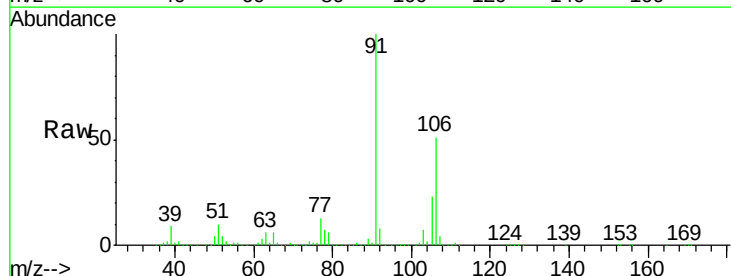
Instrument :
MSVOA_X
ClientSampled :
SOIL-SAMPLE-2

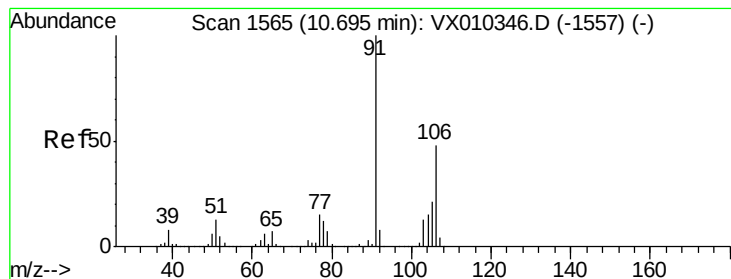
Tot Ion: 91 Resp: 15893
Ion Ratio Lower Upper
91 100
106 34.4 26.2 39.2



#68
m/p-Xylenes
Concen: 49.645 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

Tgt Ion: 106 Resp: 219236
Ion Ratio Lower Upper
106 100
91 195.7 155.3 232.9





#69

o-Xylene

Concen: 2.298 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

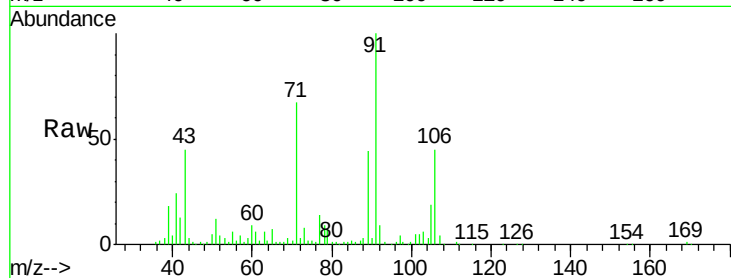
SOIL-SAMPLE-2

Tot Ion:106 Resp: 9978

Ion Ratio Lower Upper

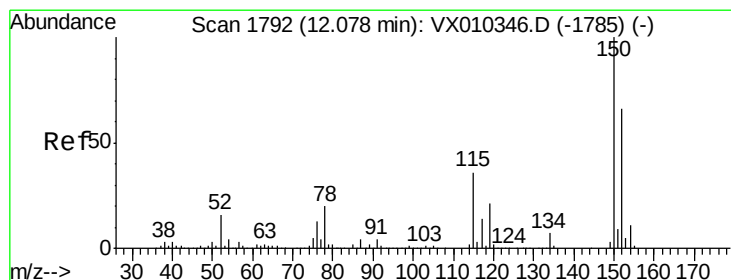
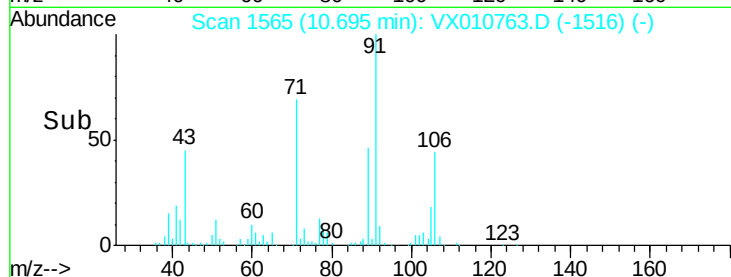
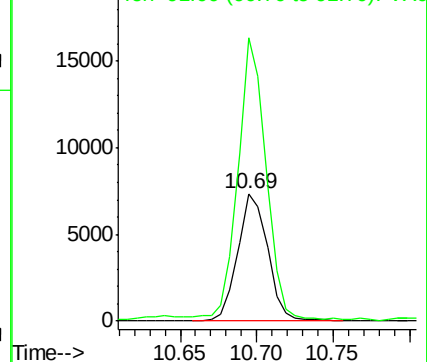
106 100

91 210.3 102.7 308.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

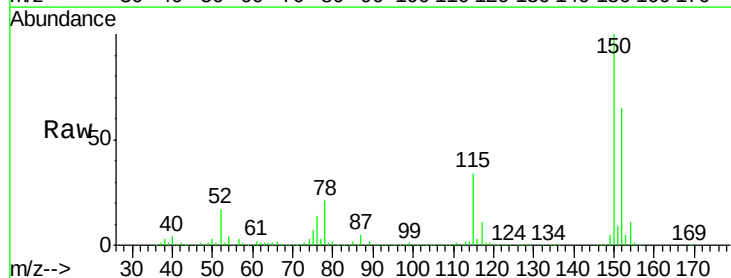
Tgt Ion:152 Resp: 168474

Ion Ratio Lower Upper

152 100

115 54.8 38.6 115.7

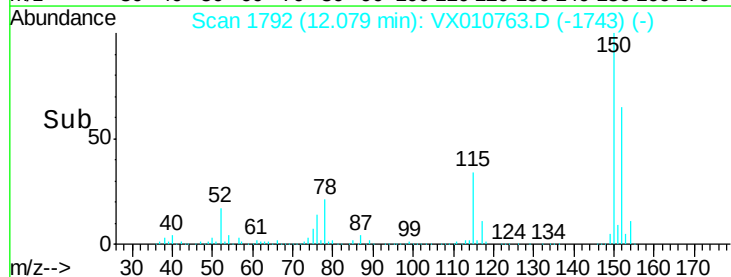
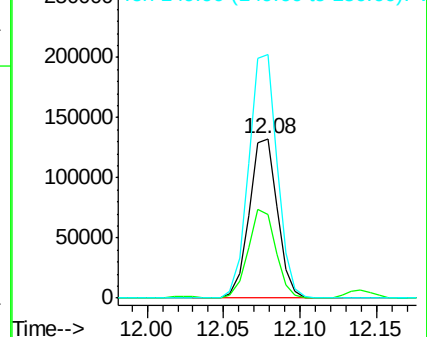
150 155.1 0.0 347.4

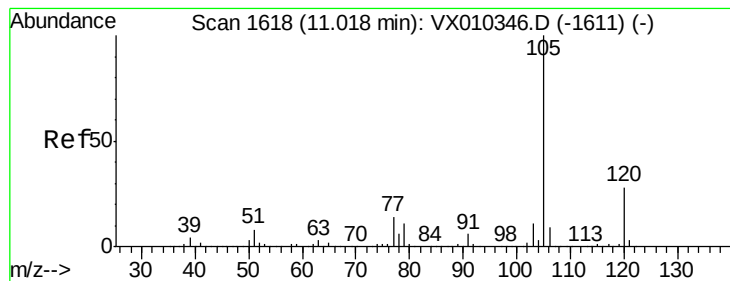


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.813 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010763.D

Acq: 09 Jul 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

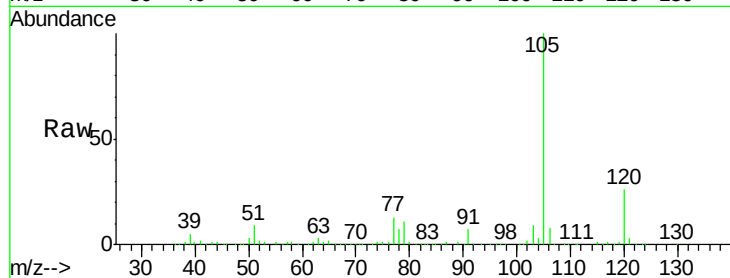
SOIL-SAMPLE-2

Tot Ion:105 Resp: 66384

Ion Ratio Lower Upper

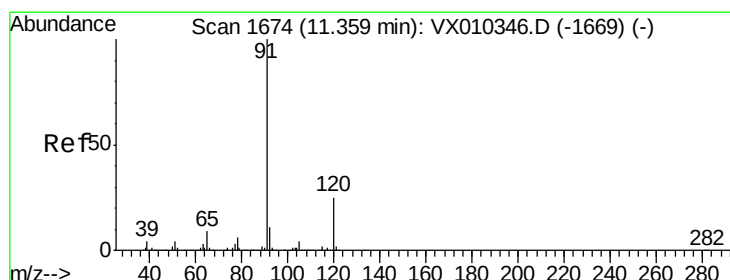
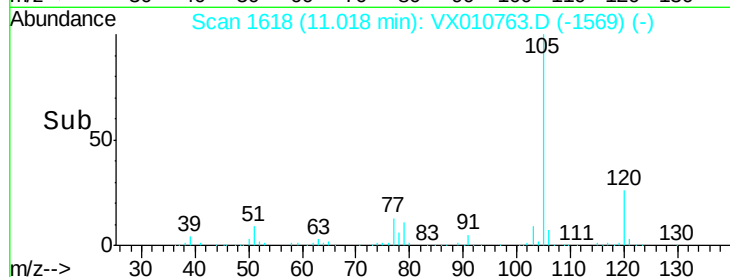
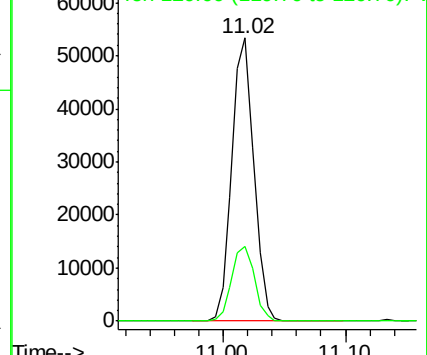
105 100

120 27.3 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 5.843 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010763.D

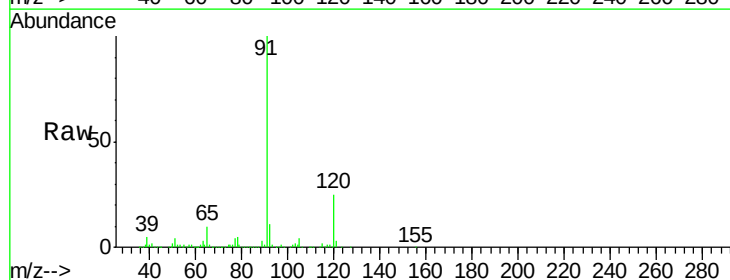
Acq: 09 Jul 2019 20:04

Tgt Ion: 91 Resp: 73341

Ion Ratio Lower Upper

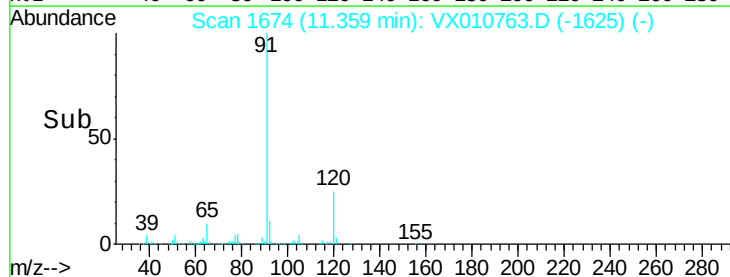
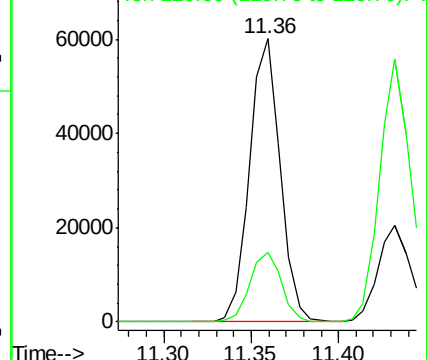
91 100

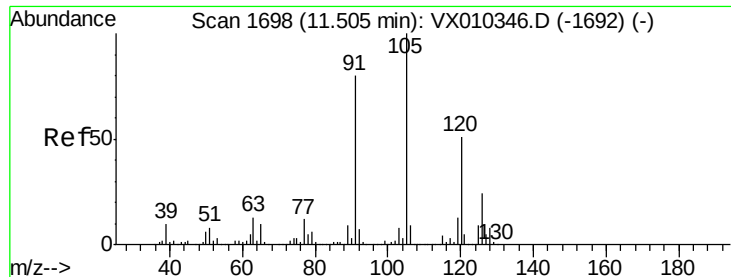
120 25.2 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

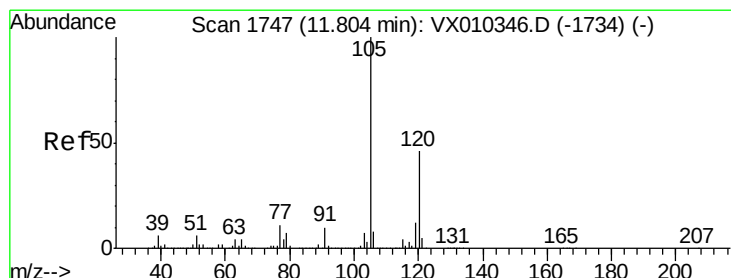
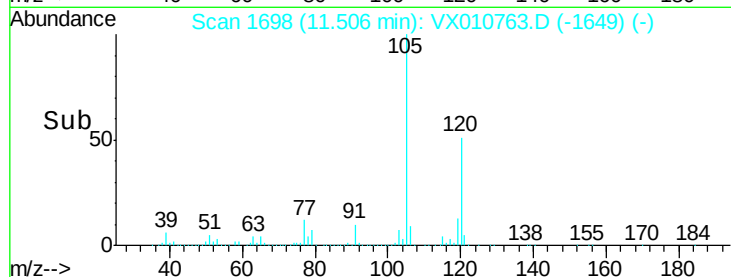
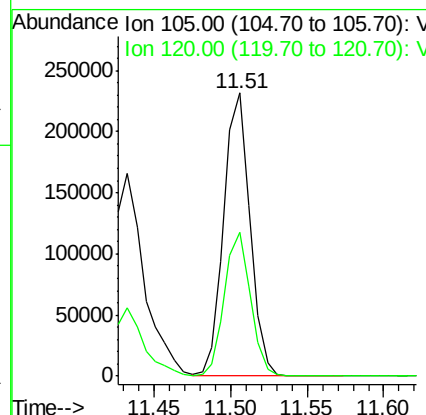
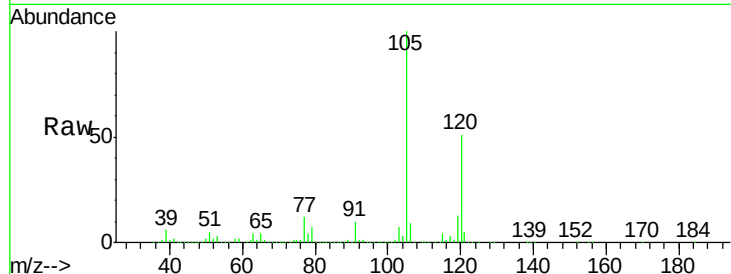




#80
 1,3,5-Trimethylbenzene
 Concen: 29.321 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

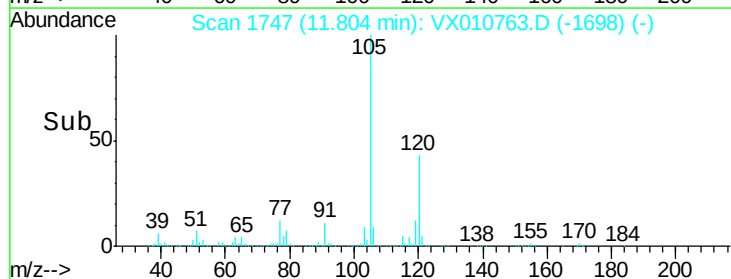
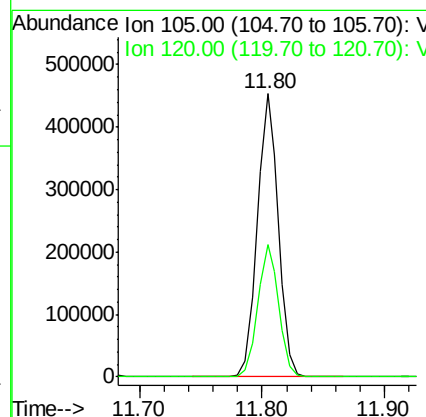
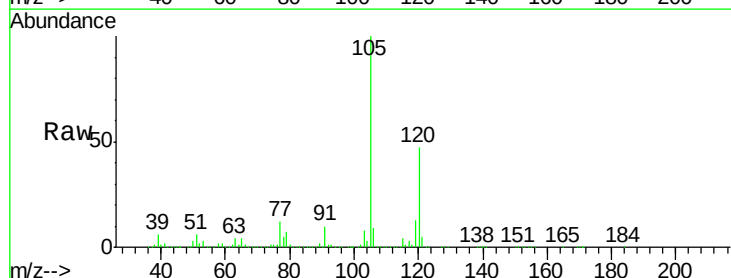
Instrument :
 MSVOA_X
 ClientSampled :
 SOIL-SAMPLE-2

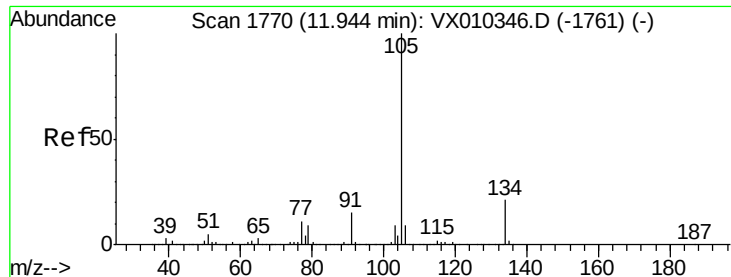
Tot Ion:105 Resp: 276050
 Ion Ratio Lower Upper
 105 100
 120 50.6 25.2 75.6



#84
 1,2,4-Trimethylbenzene
 Concen: 57.487 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

Tgt Ion:105 Resp: 543763
 Ion Ratio Lower Upper
 105 100
 120 46.7 23.1 69.2

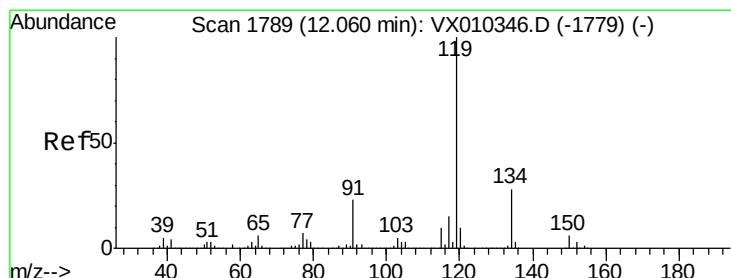
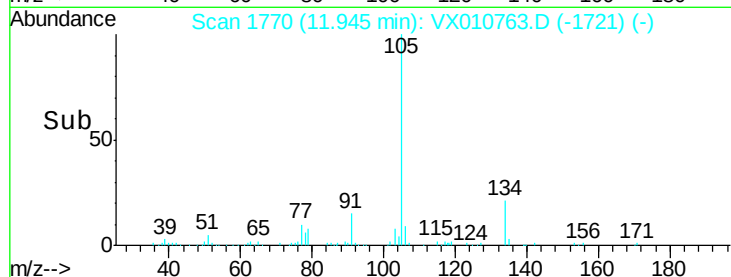
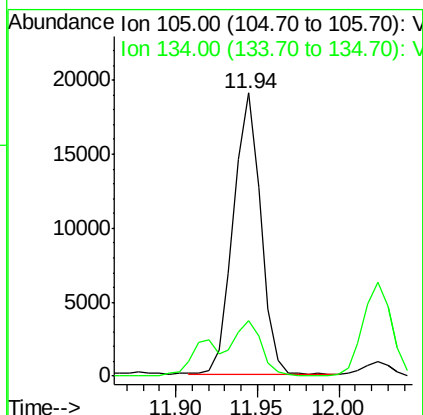
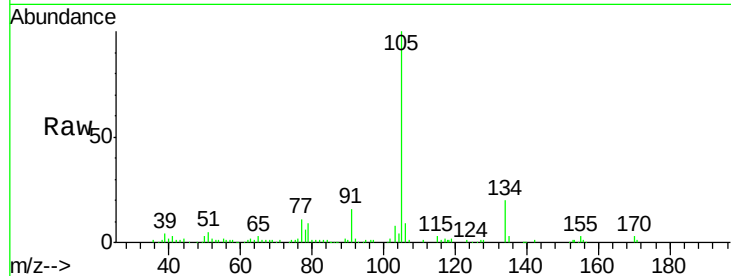




#85
 sec-Butylbenzene
 Concen: 2.005 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

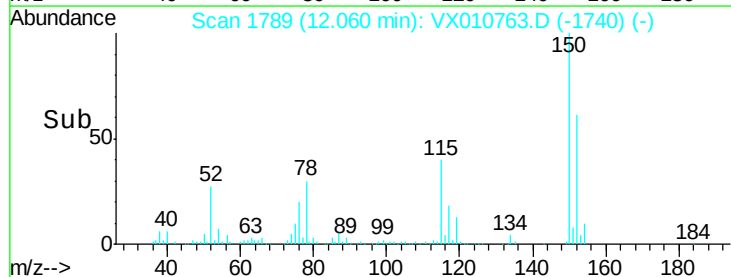
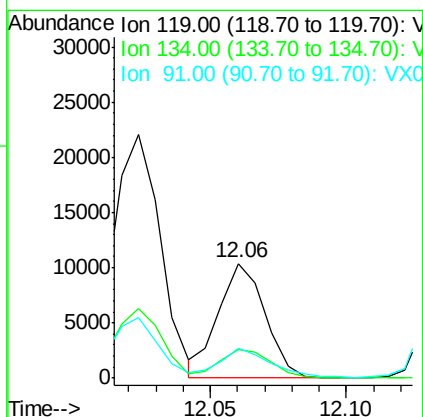
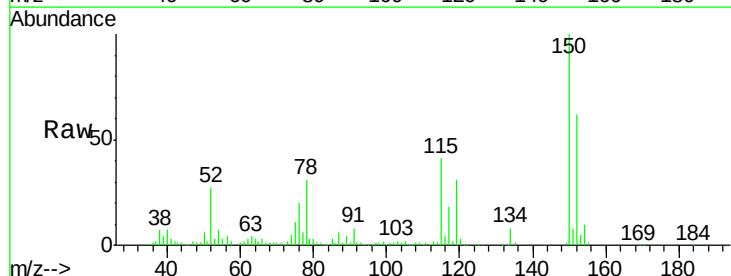
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-SAMPLE-2

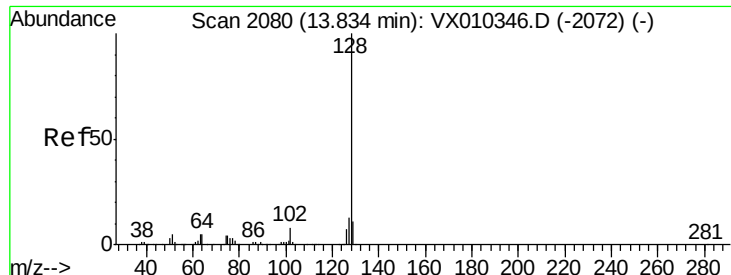
Tot Ion:105 Resp: 22247
 Ion Ratio Lower Upper
 105 100
 134 20.6 10.7 31.9



#86
 p-Isopropyltoluene
 Concen: 1.210 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX010763.D
 Acq: 09 Jul 2019 20:04

Tgt Ion:119 Resp: 12416
 Ion Ratio Lower Upper
 119 100
 134 28.1 13.7 41.1
 91 28.7 11.3 33.8





#95
Naphthalene
Concen: 13.972 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010763.D
Acq: 09 Jul 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :
SOIL-SAMPLE-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.4
129	11.7	8.9	13.3

