

Data Path : W:\HPCHEM1\MSVOA_F\DATA\VF091615\
 Data File : VF045399.D
 Acq On : 16 Sep 2015 20:06
 Operator : FY/SY
 Sample : G3707-03LOD 2ppb
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 17 07:15:46 2015
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F091615S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 16:04:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.81	168	1028805	50.00	ug/l	0.00
33) 1,4-Difluorobenzene	5.54	114	1447043	50.00	ug/l	0.00
62) Chlorobenzene-d5	9.70	117	1423695	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	12.49	152	756840	50.00	ug/l	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.78	65	530665	48.03	ug/l	0.01
Spiked Amount	50.000		Recovery	=	96.06%	
34) Dibromofluoromethane	4.04	113	585803	52.26	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.52%	
49) Toluene-d8	7.50	98	1740509	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
61) 4-Bromofluorobenzene	11.35	95	806506	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	0.93	85	21696	2.48	ug/l	87
3) Chloromethane	1.03	50	17986	2.40	ug/l	91
4) Vinyl Chloride	1.08	62	15349	2.39	ug/l	97
5) Bromomethane	1.26	94	10799	2.71	ug/l	86
6) Chloroethane	1.33	64	7215	2.82	ug/l #	59
7) Trichlorofluoromethane	1.39	101	16179	1.23	ug/l	86
8) Diethyl Ether	1.60	74	5461	1.98	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.78	101	17524	2.31	ug/l #	87
10) Methyl Iodide	1.80	142	32462	2.09	ug/l	90
11) Tert butyl alcohol	2.49	59	1736	13.98	ug/l #	66
12) 1,1-Dichloroethene	1.71	96	12178	1.93	ug/l #	79
13) Acrolein	1.96	56	6698	13.02	ug/l #	81
14) Allyl chloride	2.06	41	15079	1.54	ug/l #	76
15) Acrylonitrile	2.88	53	13529	11.40	ug/l	96
16) Acetone	2.19	43	29929	11.93	ug/l #	86
17) Carbon Disulfide	1.72	76	44450	2.07	ug/l	97
18) Methyl Acetate	2.30	43	25279	2.63	ug/l #	68
19) Methyl tert-butyl Ether	2.38	73	9048	1.82	ug/l #	40
20) Methylene Chloride	2.14	84	26953	Below	Cal #	64
21) trans-1,2-Dichloroethene	2.27	96	16240	2.30	ug/l	95
22) Diisopropyl ether	2.76	45	43157	2.07	ug/l #	85
23) Vinyl Acetate	3.13	43	60527	9.94	ug/l #	88
24) 1,1-Dichloroethane	2.82	63	28542	2.02	ug/l #	92
25) 2-Butanone	4.26	43	36739	10.47	ug/l #	80
26) 2,2-Dichloropropane	3.54	77	27214	2.07	ug/l	97
27) cis-1,2-Dichloroethene	3.42	96	23979	2.20	ug/l	73
29) Chloroform	3.78	83	38522	1.94	ug/l	86
30) Cyclohexane	3.65	56	27950	2.19	ug/l	98
31) 1,1,1-Trichloroethane	4.03	97	31590	1.92	ug/l #	84
35) 1,1-Dichloropropene	4.22	75	40982	2.99	ug/l #	75
36) Ethyl Acetate	4.02	43	22522	3.24	ug/l #	93
37) Carbon Tetrachloride	3.93	117	25634	1.77	ug/l	89
38) Methylcyclohexane	5.40	83	32562	2.21	ug/l	96
39) Benzene	4.57	78	75225	2.34	ug/l #	79

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methacrylonitrile	4.68	41	8801	2.68	ug/l #	75
41) 1,2-Dichloroethane	4.88	62	23633	1.83	ug/l	88
42) Isopropyl Acetate	6.91	43	20736	2.27	ug/l #	78
43) Trichloroethene	5.45	130	22254	2.03	ug/l	99
44) 1,2-Dichloropropane	6.18	63	20057	2.14	ug/l #	78
45) Dibromomethane	6.02	93	12991	1.95	ug/l #	83
46) Bromodichloromethane	6.31	83	27250	1.83	ug/l #	79
47) Methyl methacrylate	6.67	41	12368	2.23	ug/l #	85
48) 1,4-Dioxane	6.67	88	2531	38.04	ug/l #	81
50) 4-Methyl-2-Pentanone	8.21	43	81624	12.54	ug/l	96
51) Toluene	7.57	92	54163	2.19	ug/l	96
52) t-1,3-Dichloropropene	8.21	75	27309	2.04	ug/l	97
53) cis-1,3-Dichloropropene	7.24	75	31026	1.96	ug/l	95
54) 1,1,2-Trichloroethane	8.42	97	19683	2.35	ug/l	89
55) Ethyl methacrylate	8.56	69	20754	1.91	ug/l #	83
56) 1,3-Dichloropropane	8.79	76	33209	2.43	ug/l #	77
58) 2-Hexanone	9.44	43	53231	10.28	ug/l	90
59) Dibromochloromethane	8.65	129	20421	1.72	ug/l	94
60) 1,2-Dibromoethane	8.92	107	20372	2.15	ug/l #	64
63) Tetrachloroethene	8.09	164	23933	2.12	ug/l	89
64) Chlorobenzene	9.73	112	68133	2.28	ug/l	93
65) 1,1,1,2-Tetrachloroethane	9.86	131	21773	1.99	ug/l	91
66) Ethyl Benzene	9.83	91	106609	2.06	ug/l #	86
67) m/p-Xylenes	10.07	106	87377	4.71	ug/l	91
68) o-Xylene	10.66	106	40504	2.10	ug/l	87
69) Styrene	10.73	104	62218	2.02	ug/l	97
70) Bromoform	10.71	173	14871	1.84	ug/l	99
72) Isopropylbenzene	11.07	105	113929	2.25	ug/l	91
73) N-amyl acetate	11.32	43	28182	2.01	ug/l #	88
74) 1,1,2,2-Tetrachloroethane	11.64	83	26132	2.27	ug/l	81
75) 1,2,3-Trichloropropane	11.73	75	16993	2.15	ug/l	92
76) Bromobenzene	11.44	156	31444	2.19	ug/l	88
77) n-propylbenzene	11.55	91	161825	2.57	ug/l	93
78) 2-Chlorotoluene	11.66	91	84066	2.39	ug/l	100
79) 1,3,5-Trimethylbenzene	11.77	105	92572	2.24	ug/l	96
80) trans-1,4-Dichloro-2-buten	11.81	75	11416	2.70	ug/l #	84
81) 4-Chlorotoluene	11.84	91	86805	2.23	ug/l	78
82) tert-Butylbenzene	12.08	119	90416	2.21	ug/l	98
83) 1,2,4-Trimethylbenzene	12.16	105	98034	2.31	ug/l	87
84) sec-Butylbenzene	12.25	105	131580	2.32	ug/l	98
85) p-Isopropyltoluene	12.40	119	99813	2.26	ug/l	98
86) 1,3-Dichlorobenzene	12.41	146	59442	2.43	ug/l	97
87) 1,4-Dichlorobenzene	12.51	146	54722	2.24	ug/l	99
88) n-Butylbenzene	12.79	91	105074	2.36	ug/l	93
89) Hexachloroethane	12.86	117	17452	1.67	ug/l	89
90) 1,2-Dichlorobenzene	12.88	146	49338	2.19	ug/l	94
91) 1,2-Dibromo-3-Chloropropan	13.57	75	2480	1.63	ug/l #	37
92) 1,2,4-Trichlorobenzene	14.14	180	26103	2.01	ug/l	93
93) Hexachlorobutadiene	14.13	225	21574	2.18	ug/l	82
94) Naphthalene	14.38	128	40746	3.28	ug/l	95

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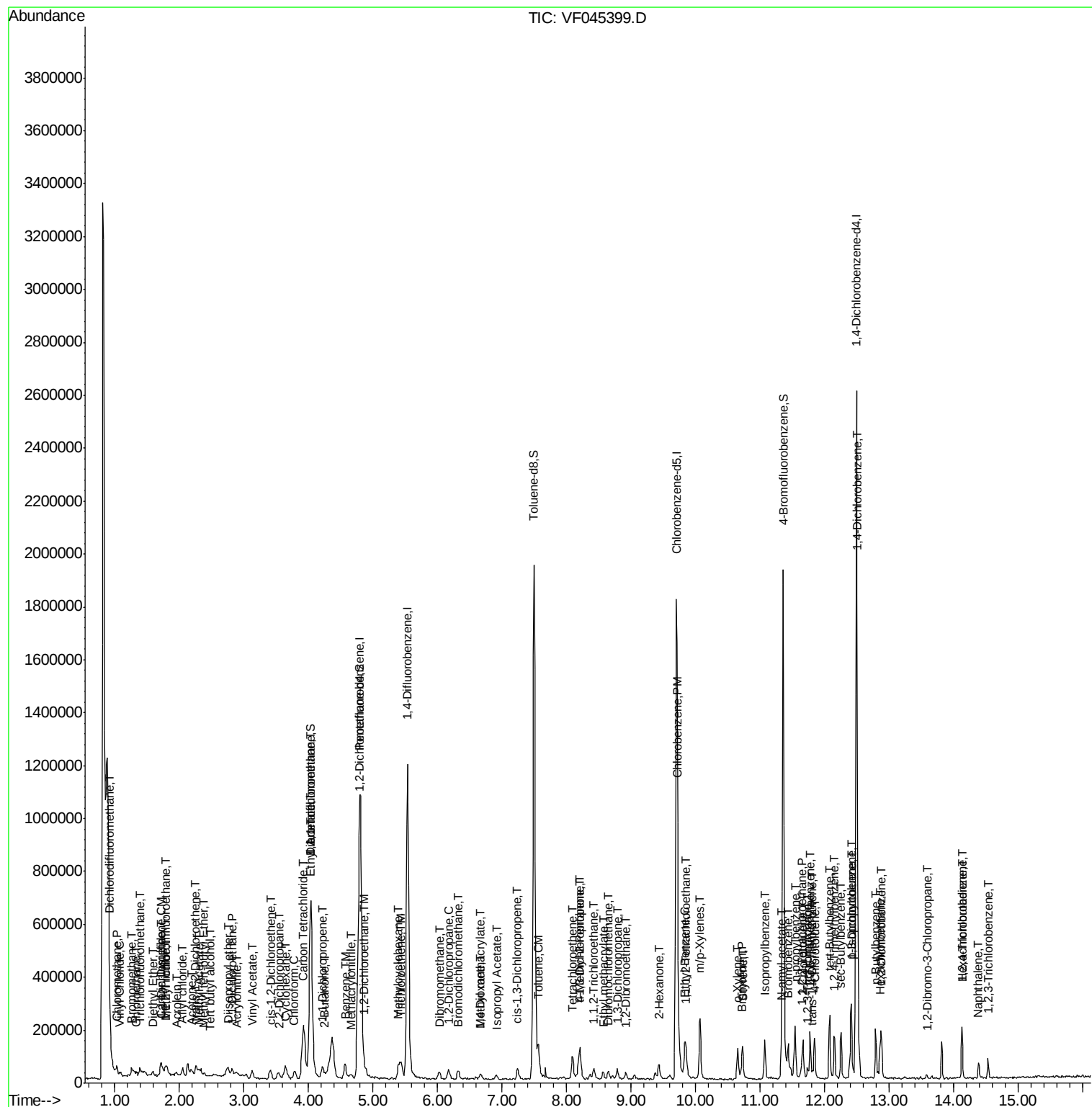
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,2,3-Trichlorobenzene	14.53	180	20209	1.89	ug/l	82

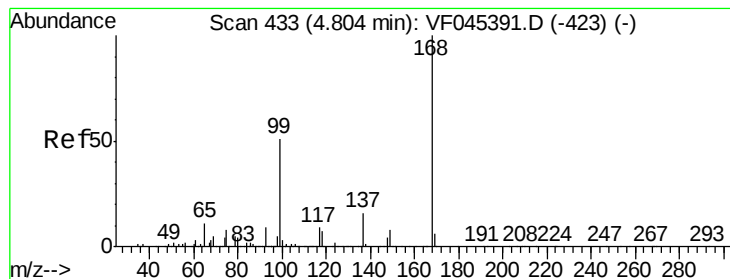
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.81 min Scan# 434

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

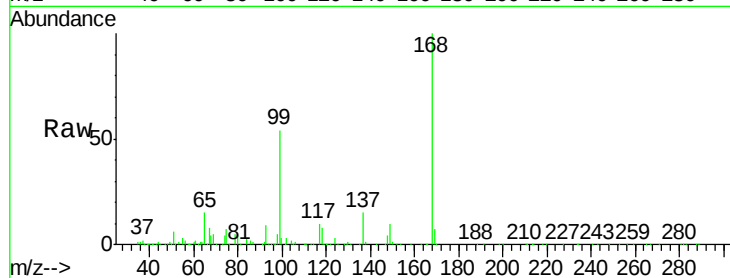
LOD-SOIL2015-01

Tgt Ion:168 Resp: 1028805

Ion Ratio Lower Upper

168 100

99 54.2 39.0 58.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.81

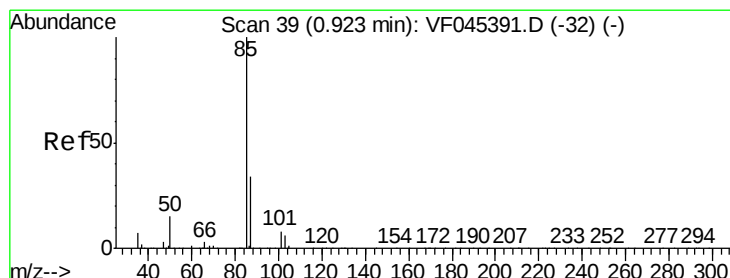
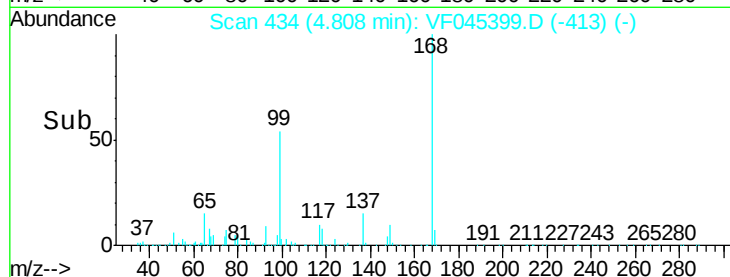
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.48 ug/l

RT: 0.93 min Scan# 40

Delta R.T. 0.00 min

Lab File: VF045399.D

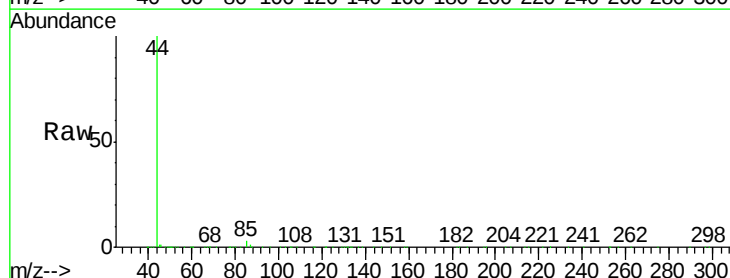
Acq: 16 Sep 2015 20:06

Tgt Ion: 85 Resp: 21696

Ion Ratio Lower Upper

85 100

87 38.4 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.93

8000

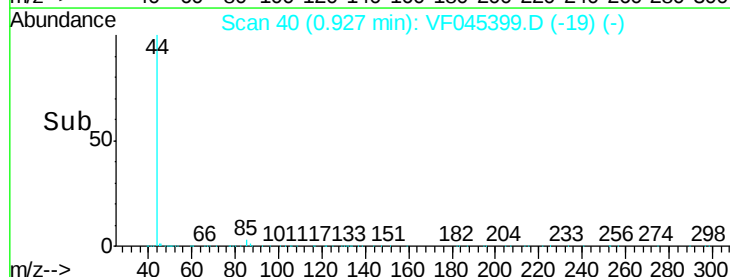
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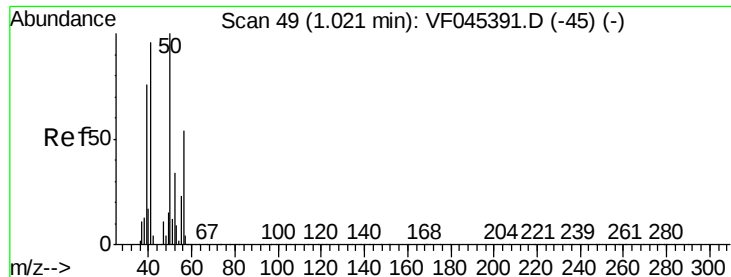
4000

2000

0

Time-->





#3

Chloromethane

Concen: 2.40 ug/l

RT: 1.03 min Scan# 50

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

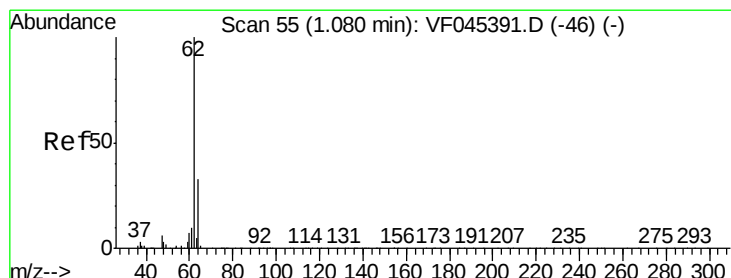
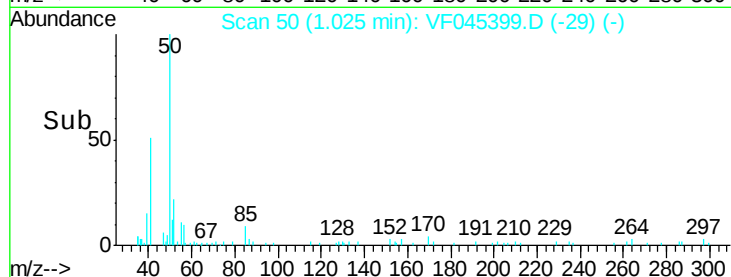
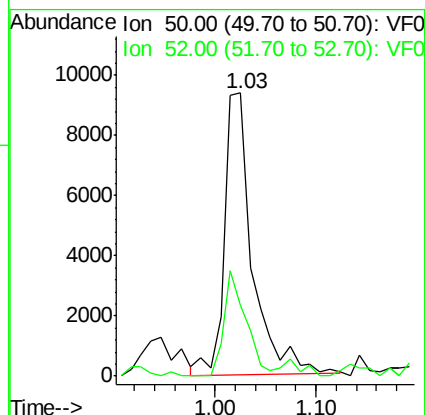
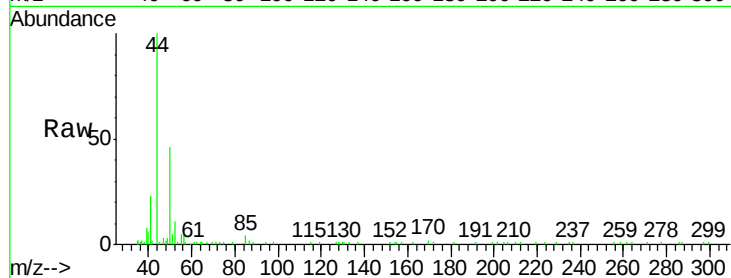
LOD-SOIL2015-01

Tgt Ion: 50 Resp: 17986

Ion Ratio Lower Upper

50 100

52 25.2 23.8 35.8



#4

Vinyl Chloride

Concen: 2.39 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF045399.D

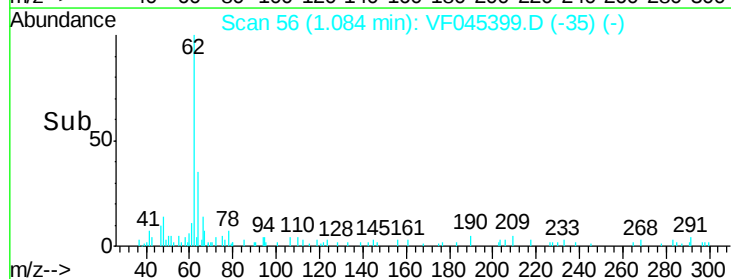
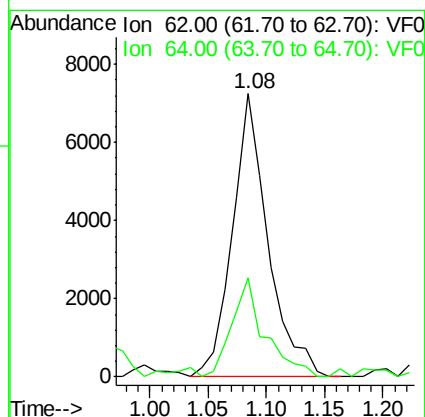
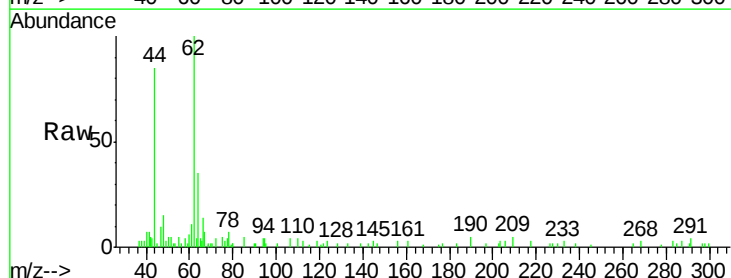
Acq: 16 Sep 2015 20:06

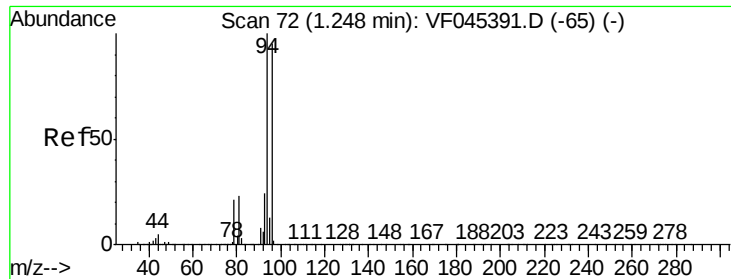
Tgt Ion: 62 Resp: 15349

Ion Ratio Lower Upper

62 100

64 35.0 26.6 39.8





#5

Bromomethane

Concen: 2.71 ug/l

RT: 1.26 min Scan# 74

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

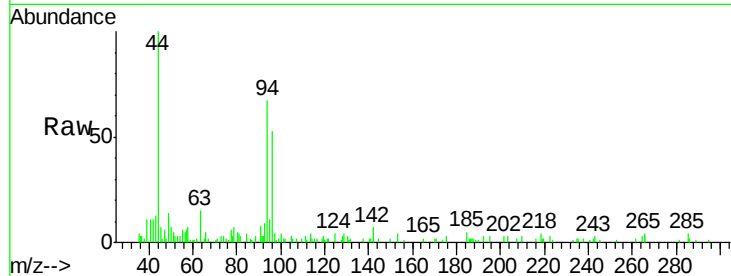
LOD-SOIL2015-01

Tgt Ion: 94 Resp: 10799

Ion Ratio Lower Upper

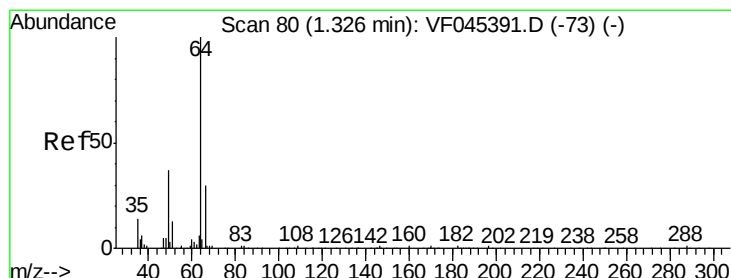
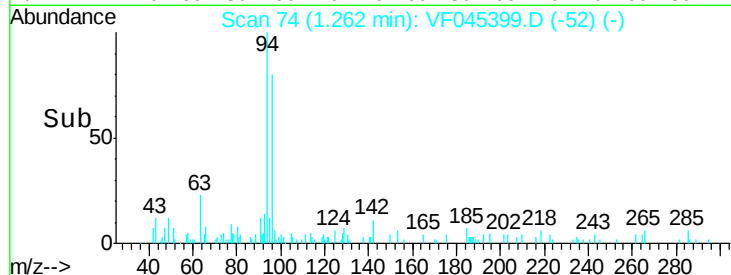
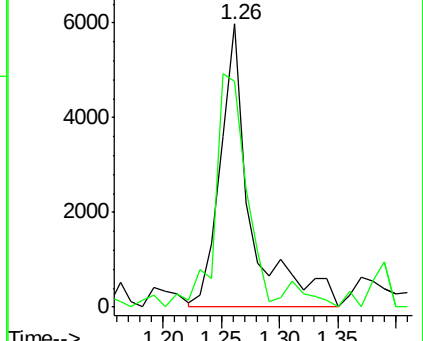
94 100

96 80.0 75.0 112.4



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 2.82 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF045399.D

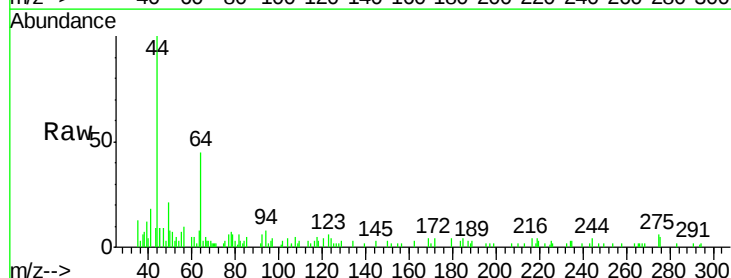
Acq: 16 Sep 2015 20:06

Tgt Ion: 64 Resp: 7215

Ion Ratio Lower Upper

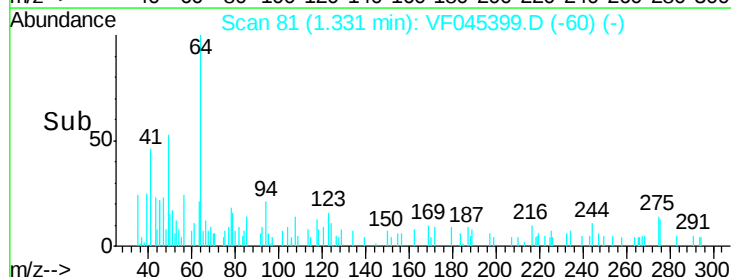
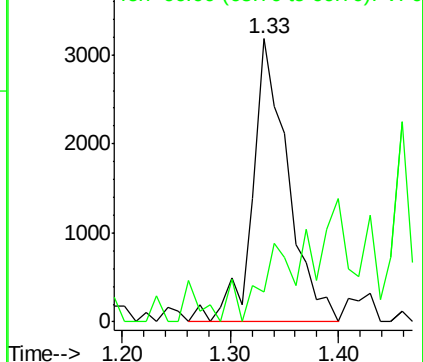
64 100

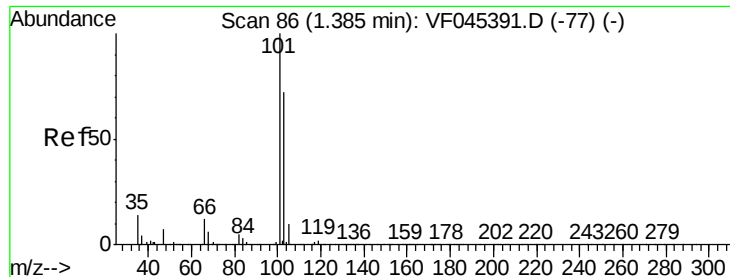
66 10.4 27.3 40.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 1.23 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

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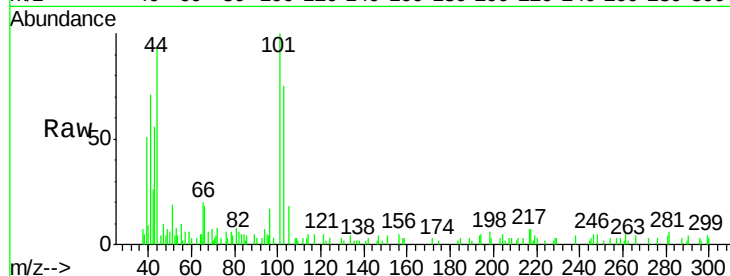
LOD-SOIL2015-01

Tgt Ion:101 Resp: 16179

Ion Ratio Lower Upper

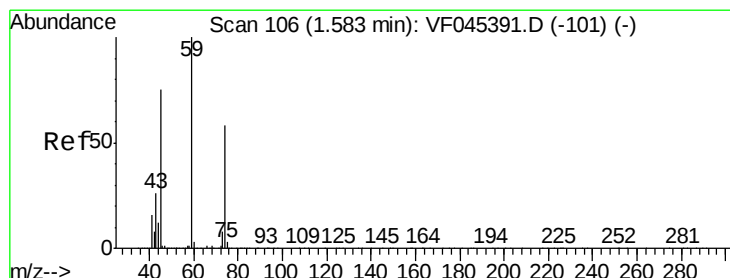
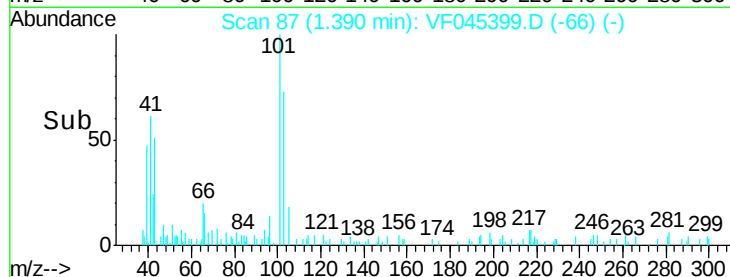
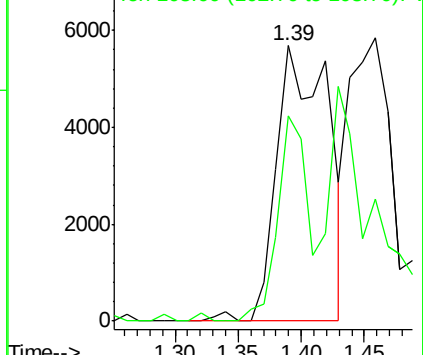
101 100

103 74.7 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 1.98 ug/l

RT: 1.60 min Scan# 108

Delta R.T. 0.01 min

Lab File: VF045399.D

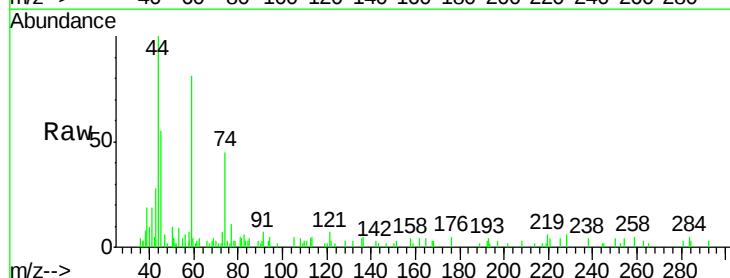
Acq: 16 Sep 2015 20:06

Tgt Ion: 74 Resp: 5461

Ion Ratio Lower Upper

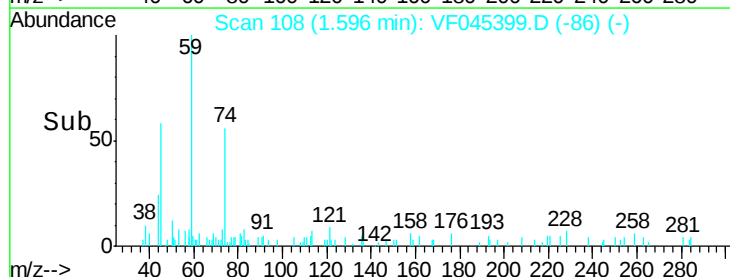
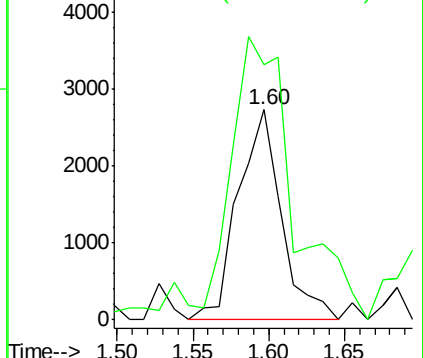
74 100

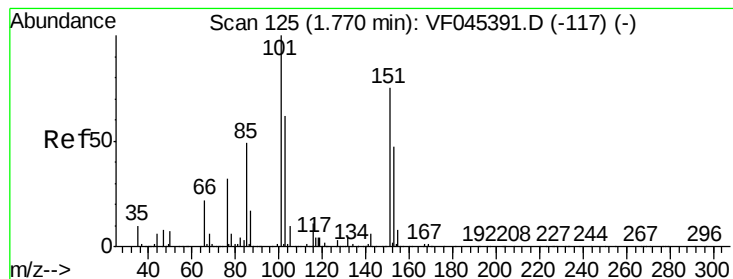
45 121.1 60.9 182.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.31 ug/l

RT: 1.78 min Scan# 127

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

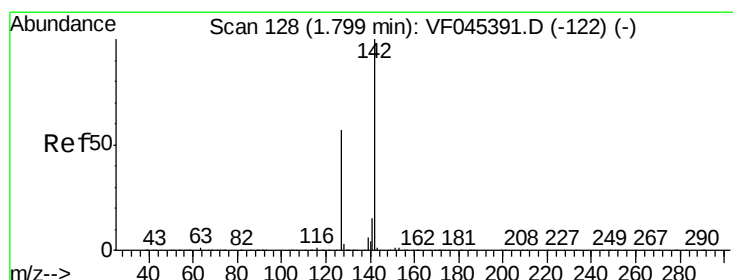
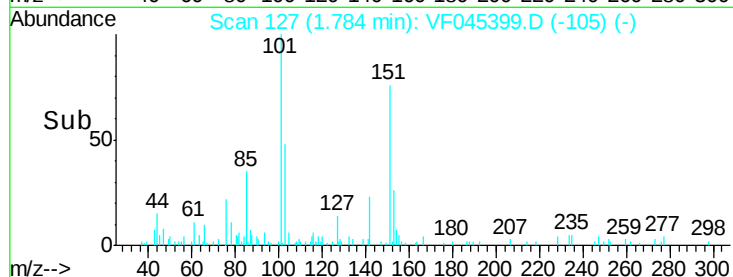
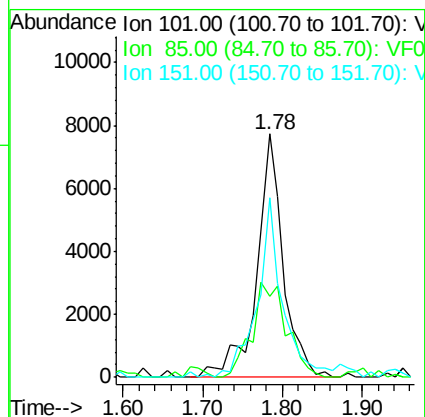
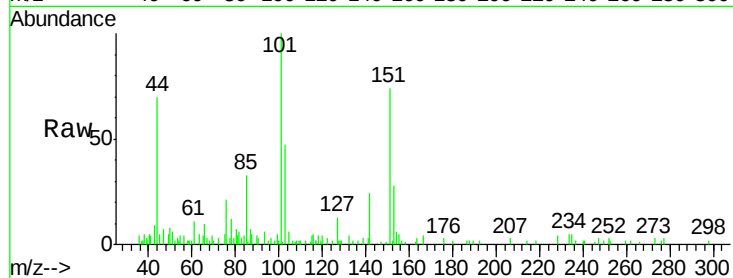
Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion:	101	Resp:	17524
Ion Ratio	Lower	Upper	
101	100		
85	33.4	40.0	60.0#
151	73.6	62.8	94.2



#10

Methyl Iodide

Concen: 2.09 ug/l

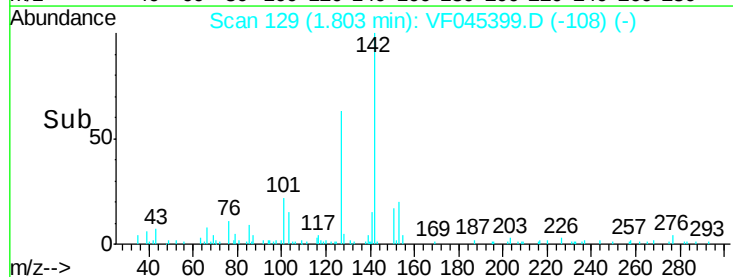
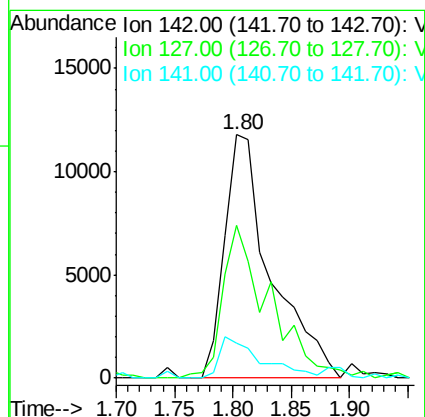
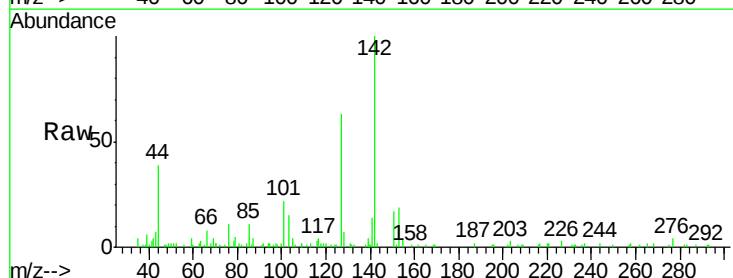
RT: 1.80 min Scan# 129

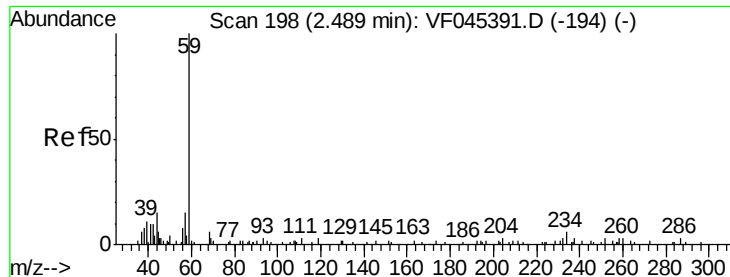
Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Tgt Ion:	142	Resp:	32462
Ion Ratio	Lower	Upper	
142	100		
127	62.6	43.3	64.9
141	14.4	12.1	18.1

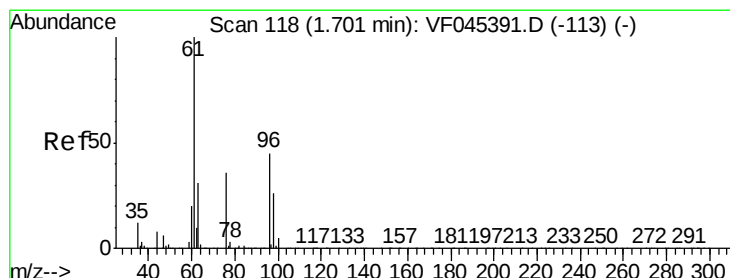
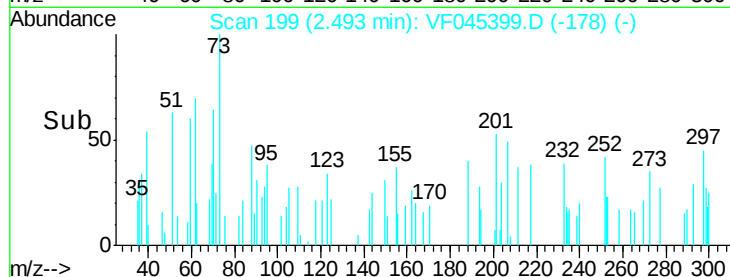
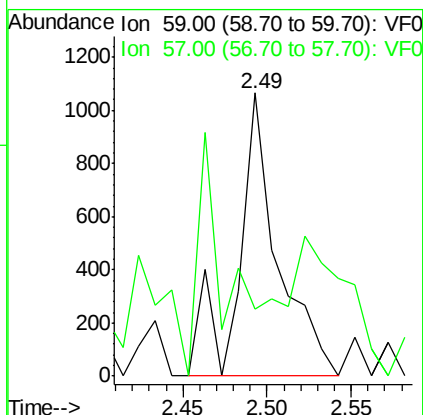
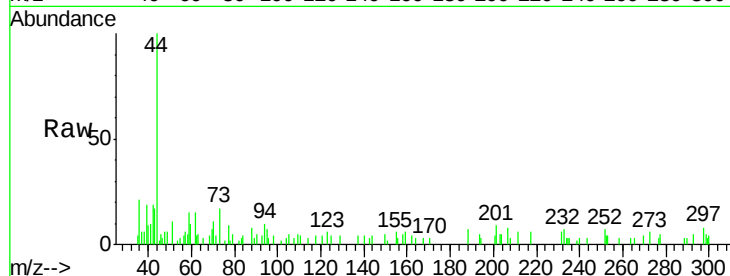




#11
Tert butyl alcohol
Concen: 13.98 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

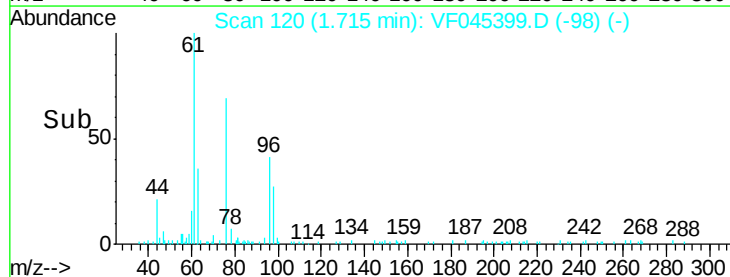
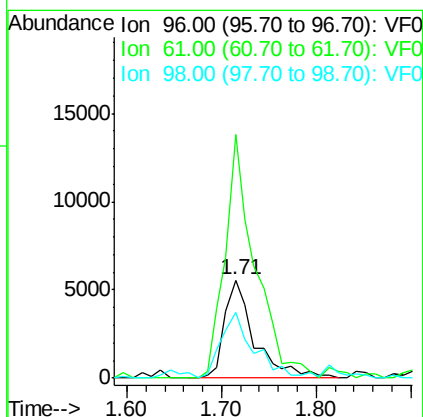
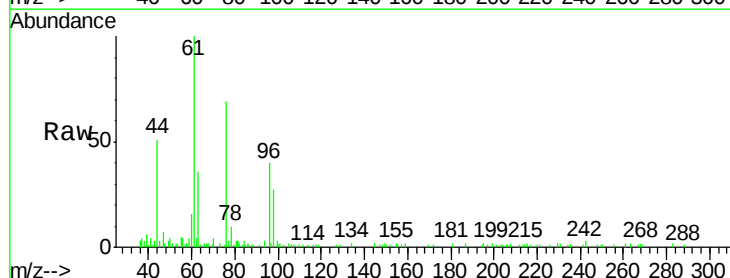
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

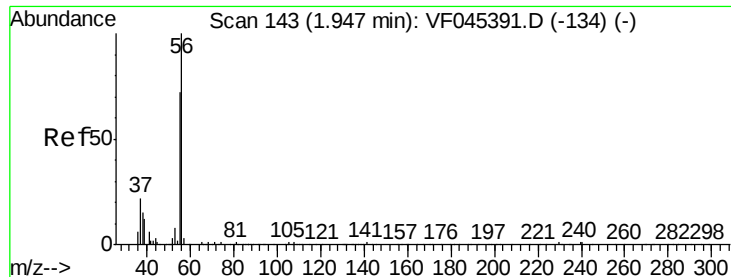
Tgt Ion: 59 Resp: 1736
Ion Ratio Lower Upper
59 100
57 23.5 8.6 13.0#



#12
1,1-Dichloroethene
Concen: 1.93 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 96 Resp: 12178
Ion Ratio Lower Upper
96 100
61 248.8 165.8 248.8#
98 67.4 51.2 76.8





#13

Acrolein

Concen: 13.02 ug/l

RT: 1.96 min Scan# 145

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

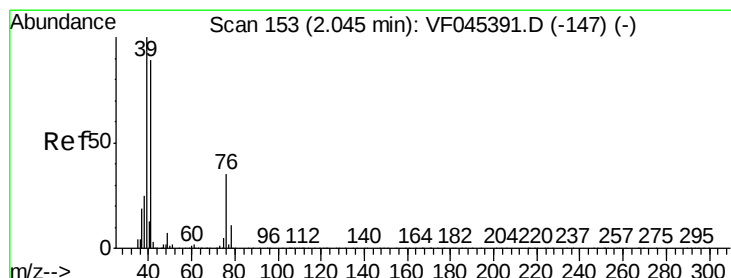
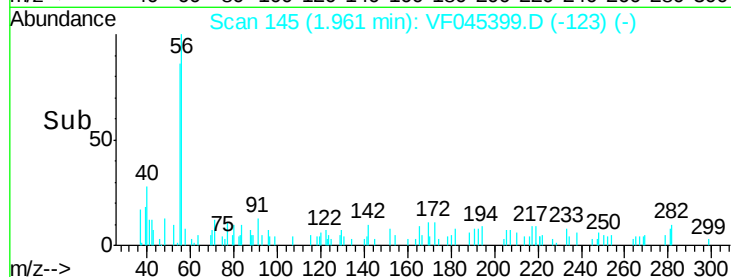
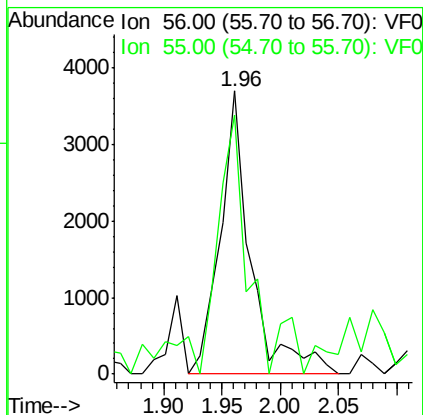
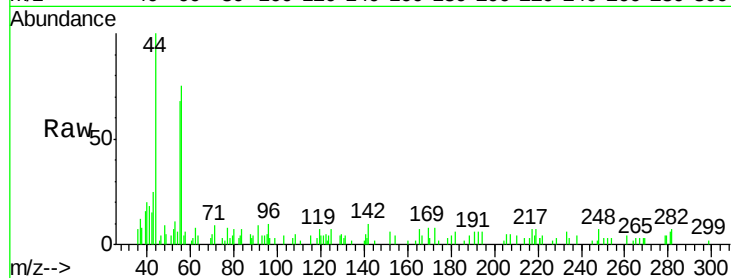
LOD-SOIL2015-01

Tgt Ion: 56 Resp: 6698

Ion Ratio Lower Upper

56 100

55 91.6 60.5 90.7#



#14

Allyl chloride

Concen: 1.54 ug/l

RT: 2.06 min Scan# 155

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

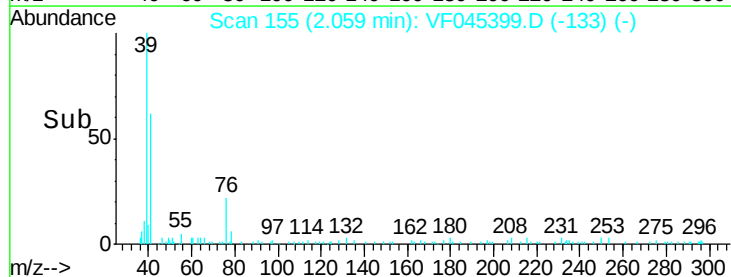
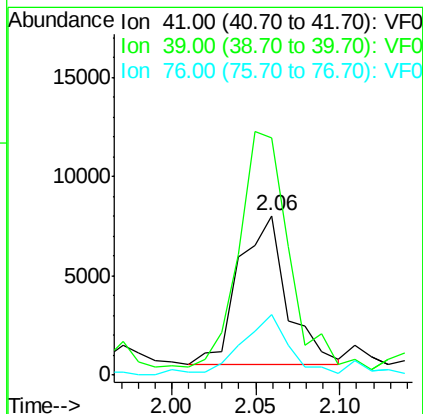
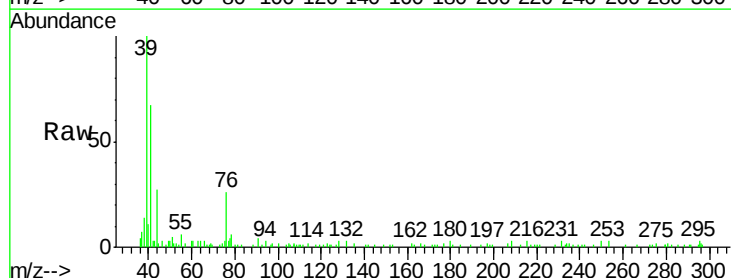
Tgt Ion: 41 Resp: 15079

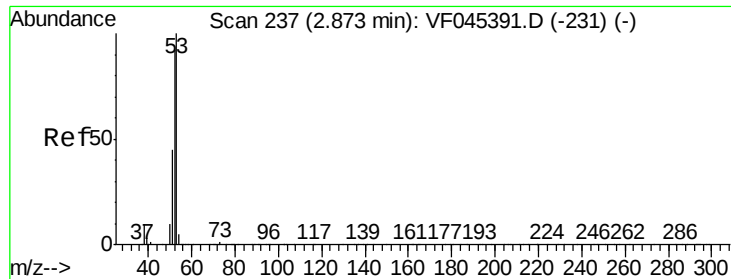
Ion Ratio Lower Upper

41 100

39 148.3 92.8 139.2#

76 38.0 27.7 41.5

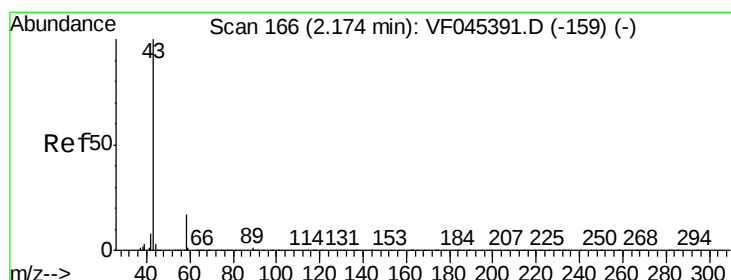
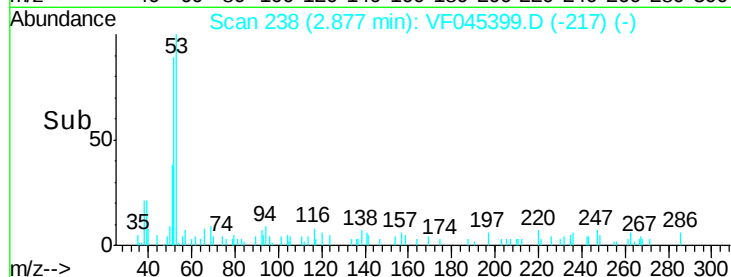
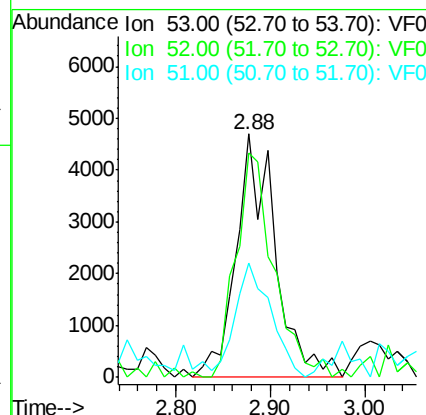
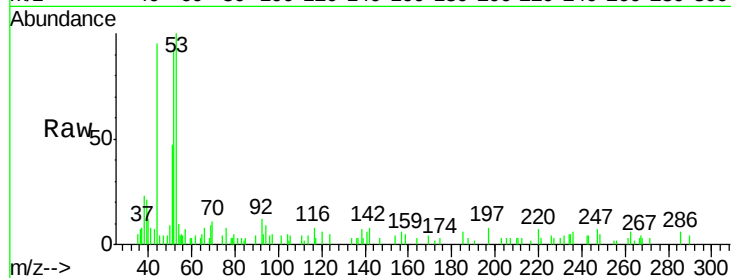




#15
Acrylonitrile
Concen: 11.40 ug/l
RT: 2.88 min Scan# 238
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

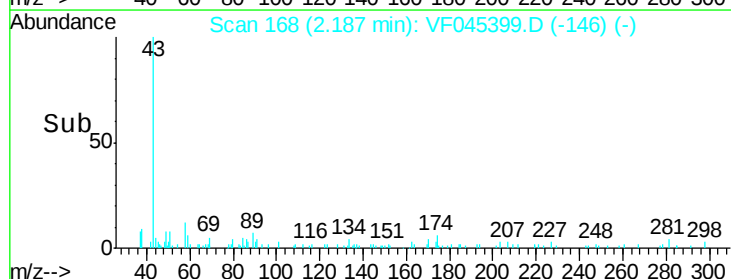
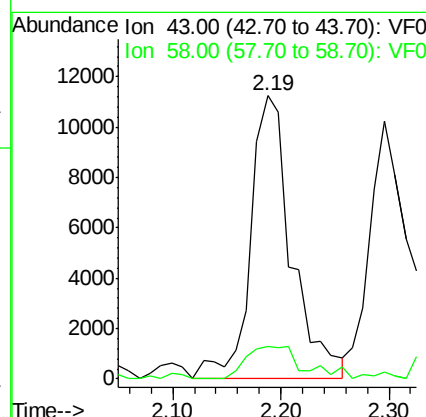
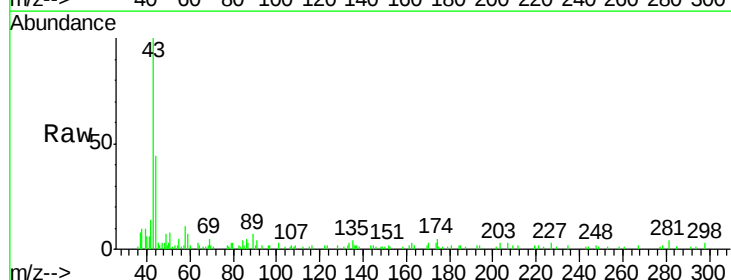
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

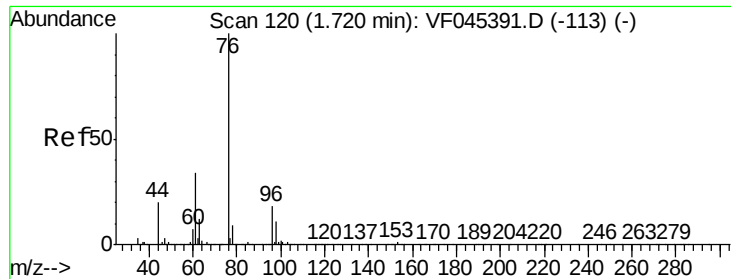
Tgt Ion: 53 Resp: 13529
Ion Ratio Lower Upper
53 100
52 92.1 72.7 109.1
51 46.8 42.2 63.2



#16
Acetone
Concen: 11.93 ug/l
RT: 2.19 min Scan# 168
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 43 Resp: 29929
Ion Ratio Lower Upper
43 100
58 11.4 13.9 20.9#

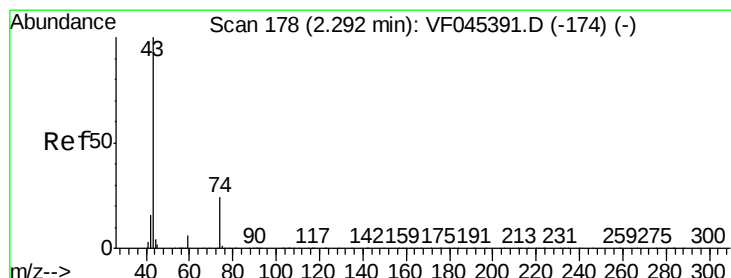
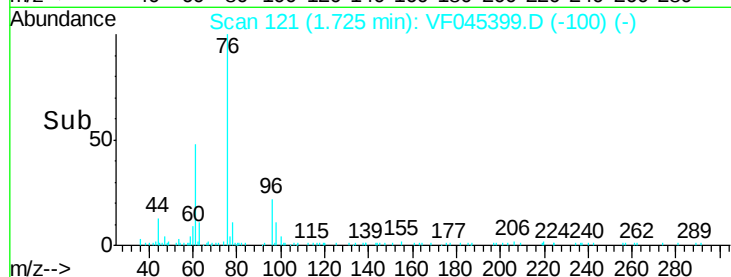
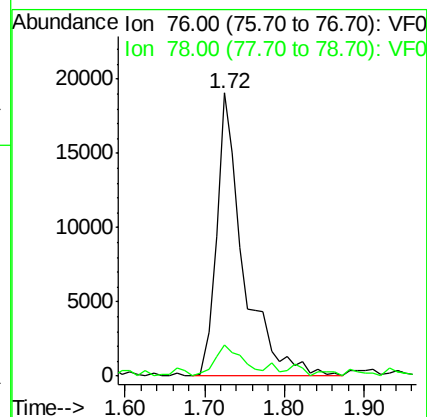
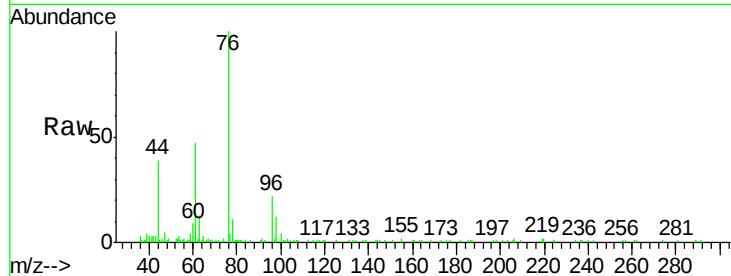




#17
Carbon Disulfide
Concen: 2.07 ug/l
RT: 1.72 min Scan# 121
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

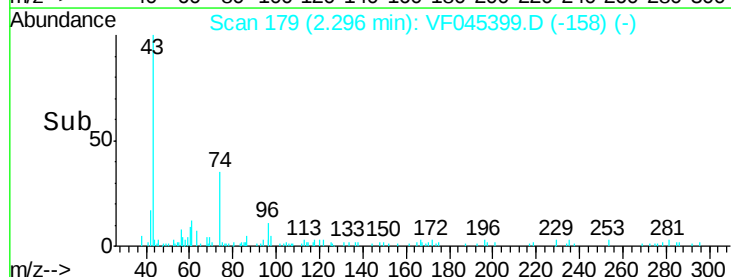
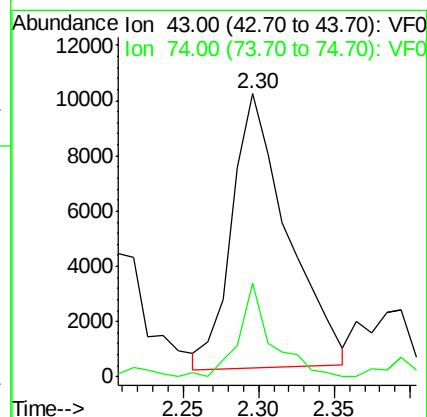
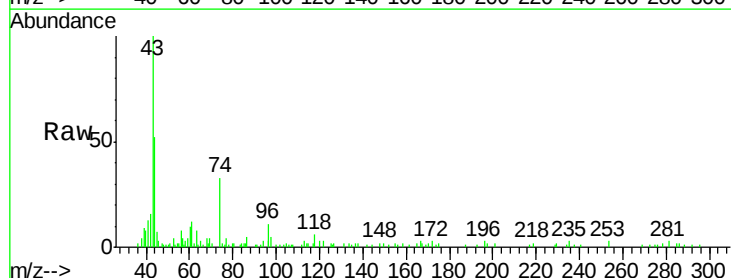
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

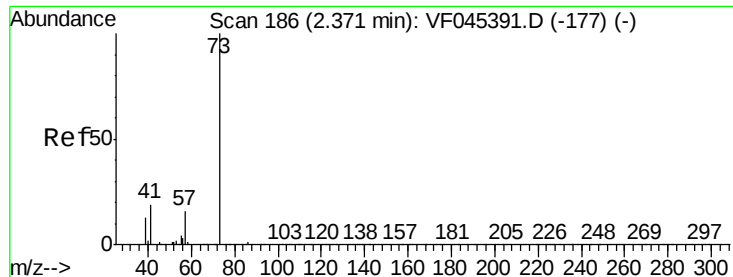
Tgt Ion: 76 Resp: 44450
Ion Ratio Lower Upper
76 100
78 10.5 7.6 11.4



#18
Methyl Acetate
Concen: 2.63 ug/l
RT: 2.30 min Scan# 179
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 43 Resp: 25279
Ion Ratio Lower Upper
43 100
74 33.1 15.1 22.7#



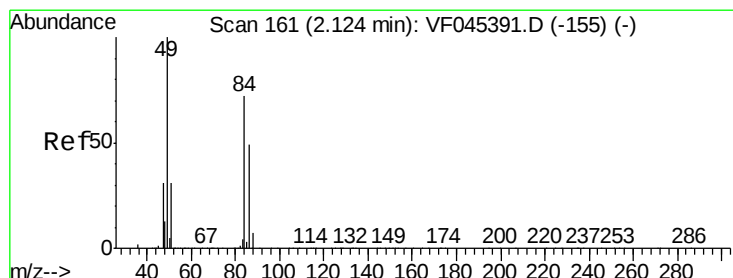
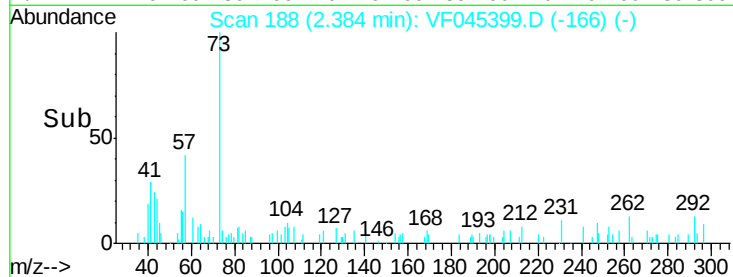
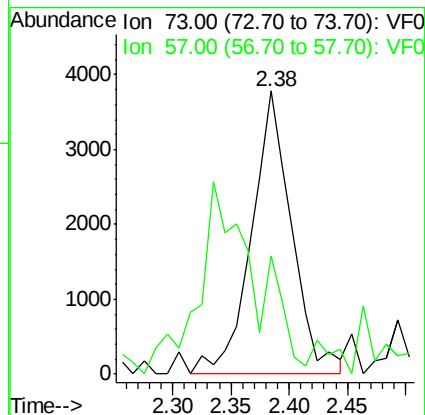
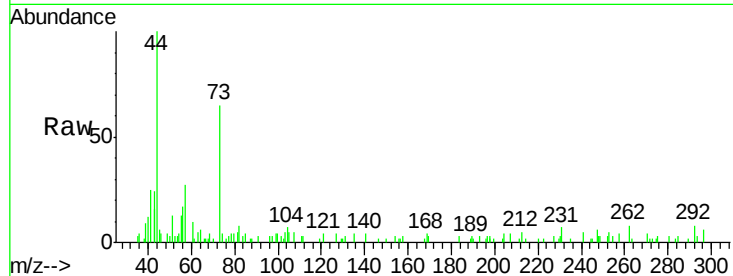


#19

Methyl tert-butyl Ether
 Concen: 1.82 ug/l
 RT: 2.38 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

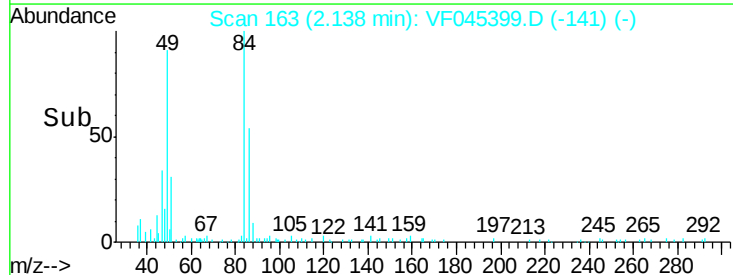
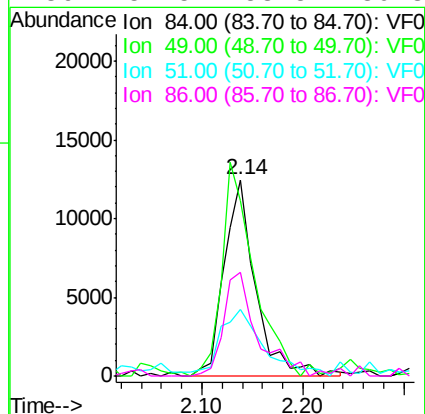
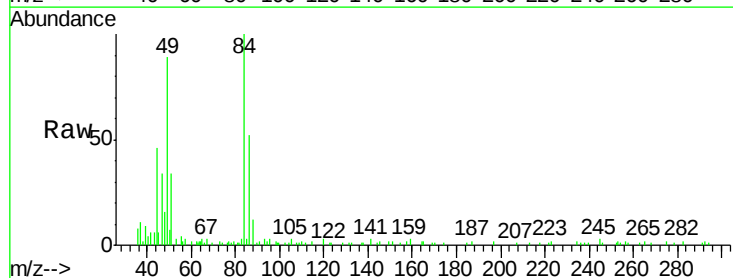
Tgt Ion: 73 Resp: 9048
 Ion Ratio Lower Upper
 73 100
 57 41.8 12.9 19.3#

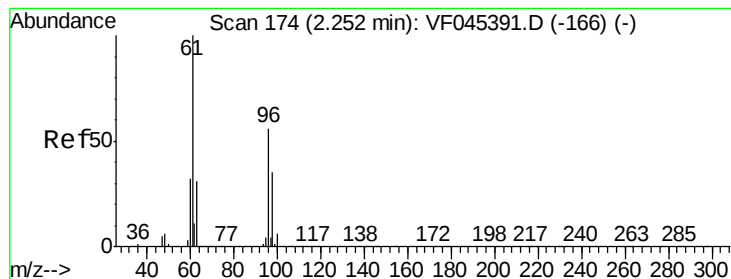


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.14 min Scan# 163
 Delta R.T. 0.01 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion: 84 Resp: 26953
 Ion Ratio Lower Upper
 84 100
 49 89.2 122.8 184.2#
 51 34.1 35.4 53.2#
 86 52.5 53.5 80.3#





#21

trans-1,2-Dichloroethene

Concen: 2.30 ug/l

RT: 2.27 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

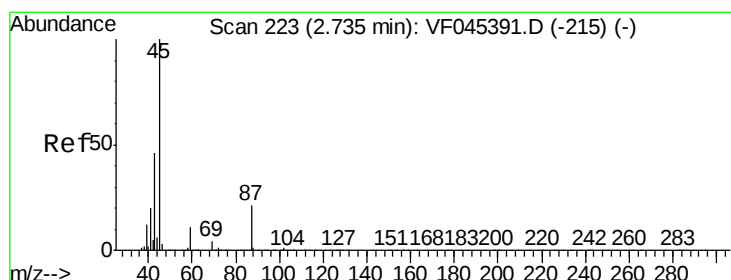
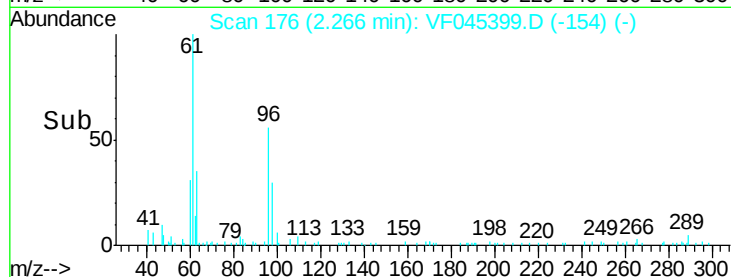
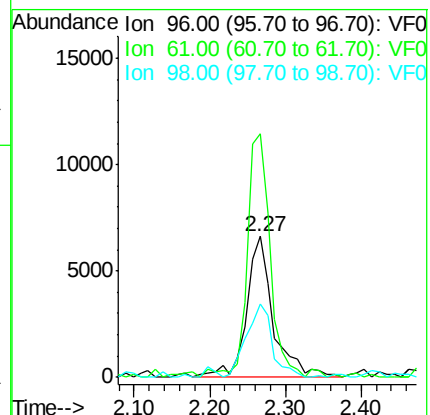
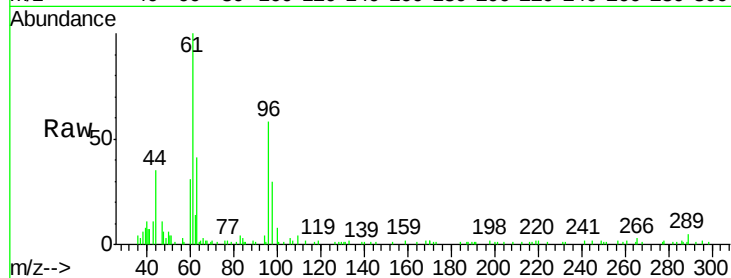
Tgt Ion: 96 Resp: 16240

Ion Ratio Lower Upper

96 100

61 173.0 136.8 205.2

98 52.1 51.0 76.4



#22

Diisopropyl ether

Concen: 2.07 ug/l

RT: 2.76 min Scan# 226

Delta R.T. 0.02 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Tgt Ion: 45 Resp: 43157

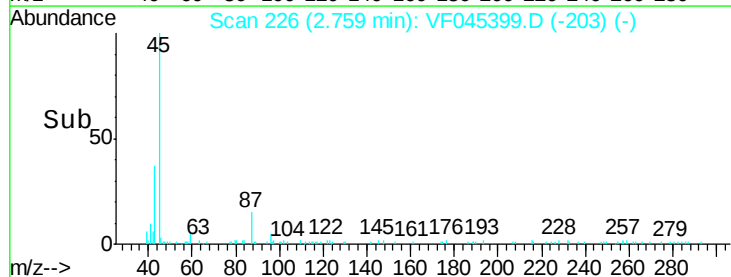
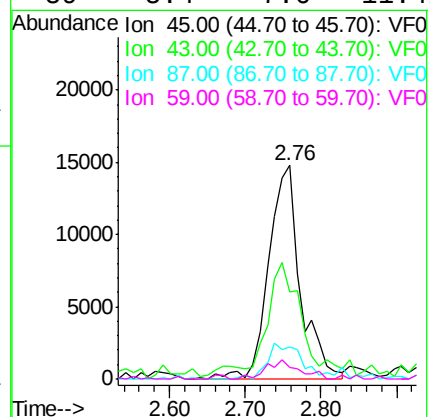
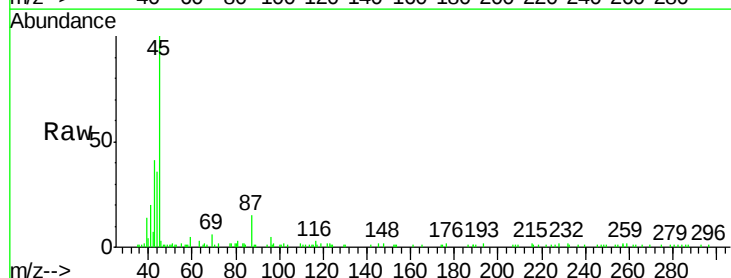
Ion Ratio Lower Upper

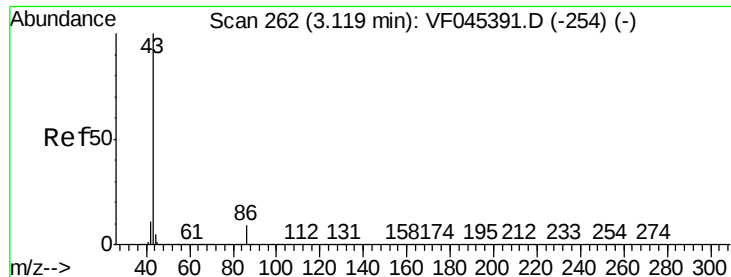
45 100

43 40.8 42.2 63.4#

87 15.2 16.6 25.0#

59 5.4 7.6 11.4#





#23

Vinyl Acetate

Concen: 9.94 ug/l

RT: 3.13 min Scan# 264

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

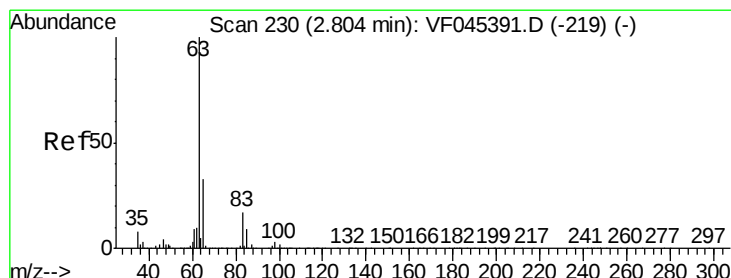
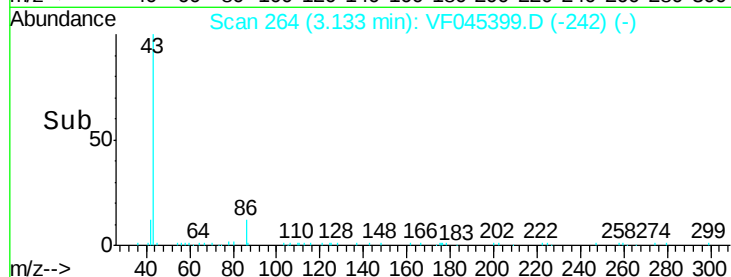
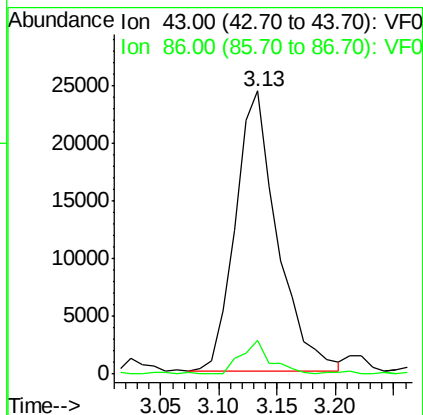
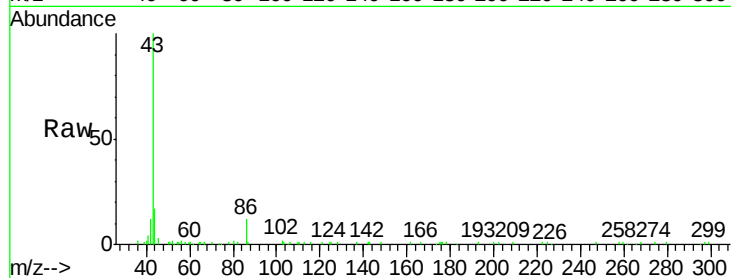
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 60527

Ion Ratio Lower Upper

43 100

86 12.0 6.3 9.5#



#24

1,1-Dichloroethane

Concen: 2.02 ug/l

RT: 2.82 min Scan# 232

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

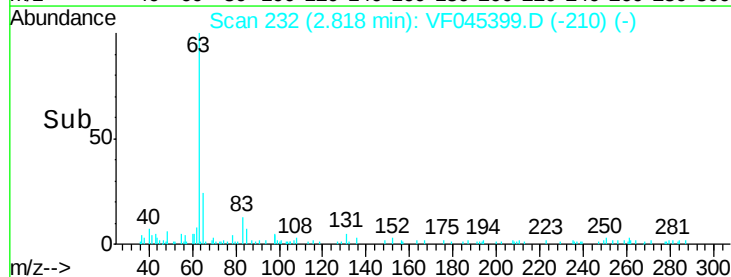
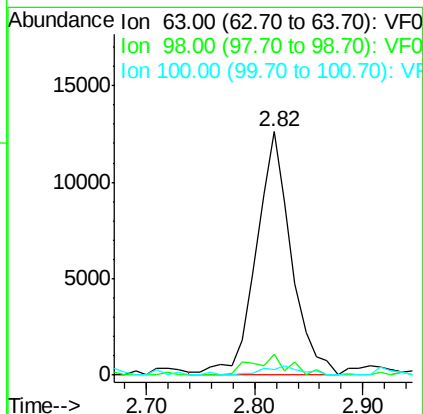
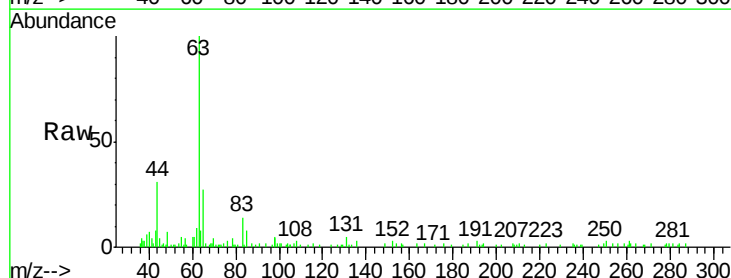
Tgt Ion: 63 Resp: 28542

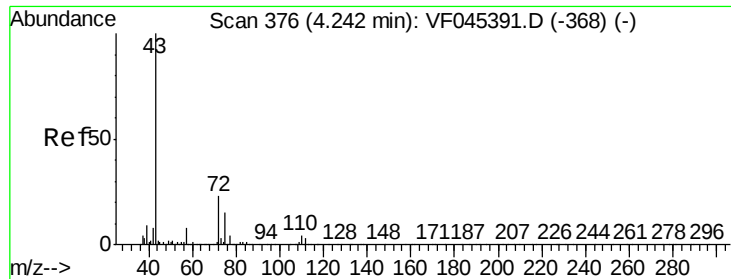
Ion Ratio Lower Upper

63 100

98 8.6 2.2 6.6#

100 2.3 1.1 3.5





#25

2-Butanone

Concen: 10.47 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

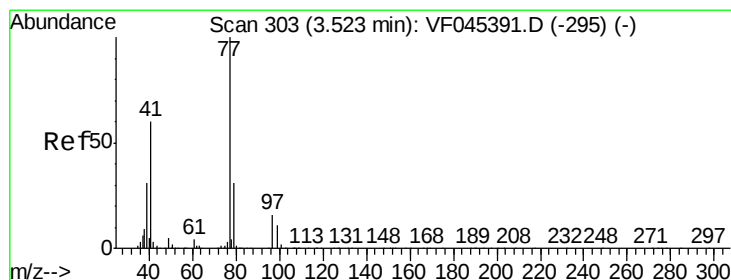
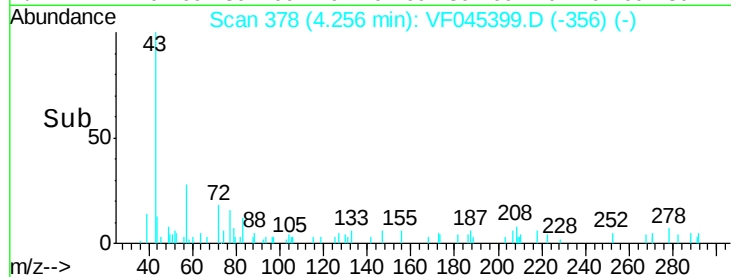
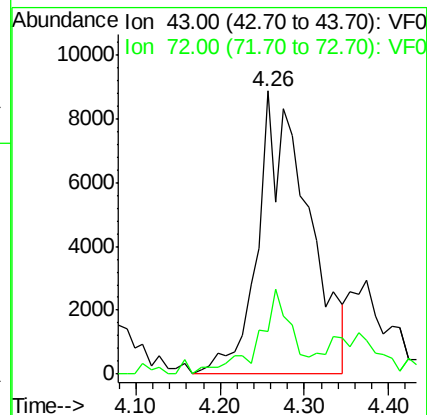
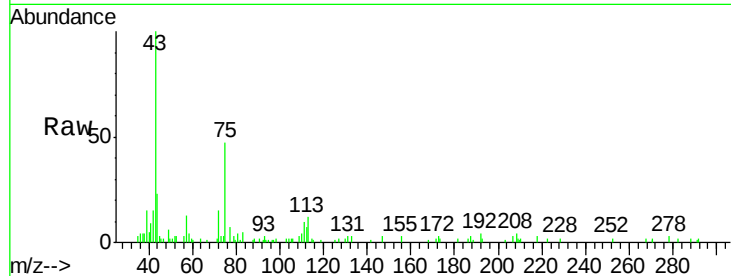
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 36739

Ion Ratio Lower Upper

43 100

72 15.3 20.2 30.2#



#26

2,2-Dichloropropane

Concen: 2.07 ug/l

RT: 3.54 min Scan# 305

Delta R.T. 0.01 min

Lab File: VF045399.D

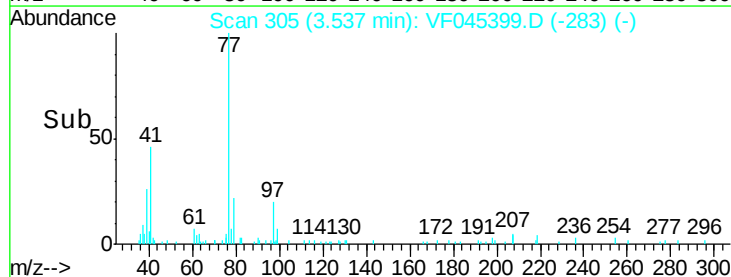
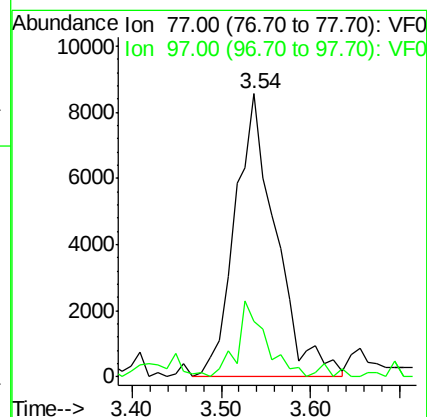
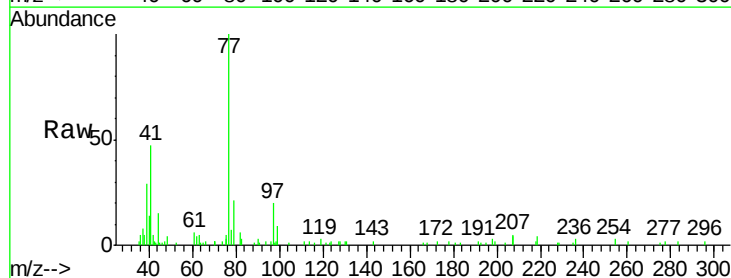
Acq: 16 Sep 2015 20:06

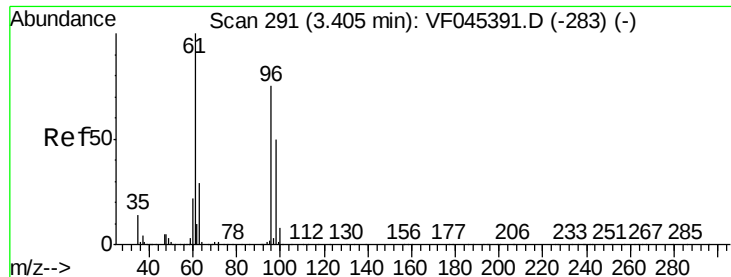
Tgt Ion: 77 Resp: 27214

Ion Ratio Lower Upper

77 100

97 19.6 9.2 27.4





#27

cis-1,2-Dichloroethene

Concen: 2.20 ug/l

RT: 3.42 min Scan# 293

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

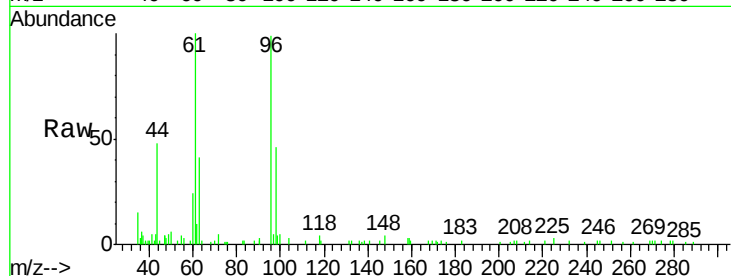
Tgt Ion: 96 Resp: 23979

Ion Ratio Lower Upper

96 100

61 101.5 0.0 268.6

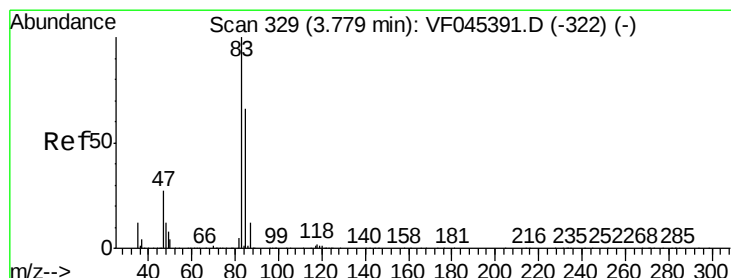
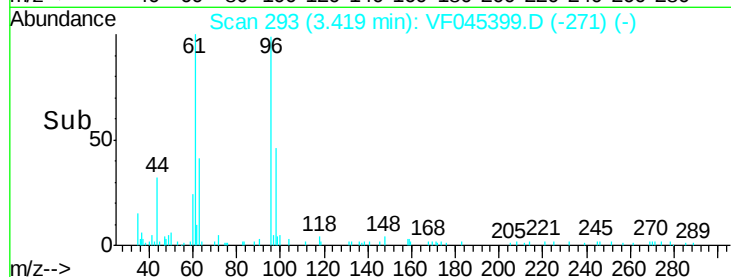
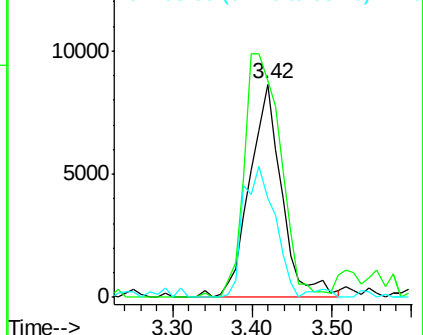
98 46.3 0.0 135.8



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#29

Chloroform

Concen: 1.94 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.00 min

Lab File: VF045399.D

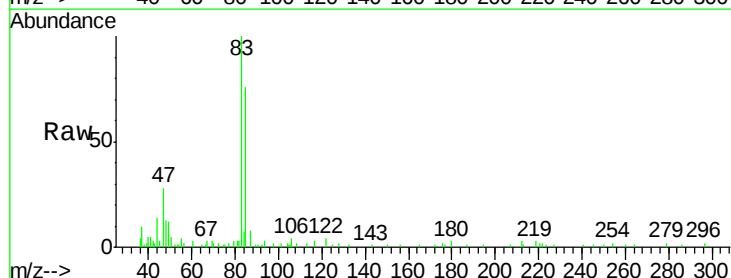
Acq: 16 Sep 2015 20:06

Tgt Ion: 83 Resp: 38522

Ion Ratio Lower Upper

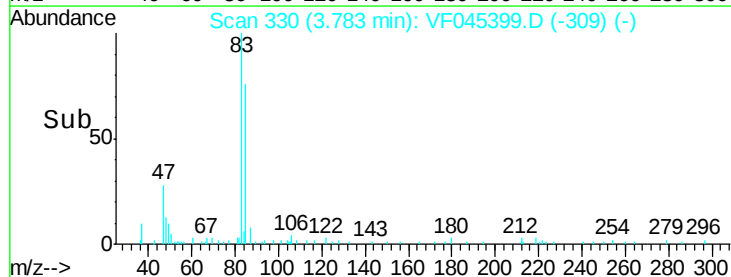
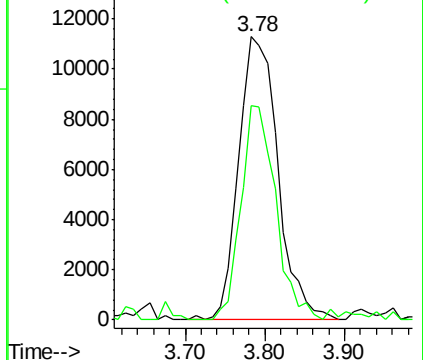
83 100

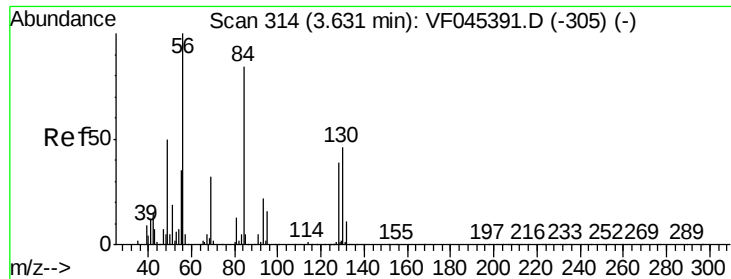
85 75.8 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

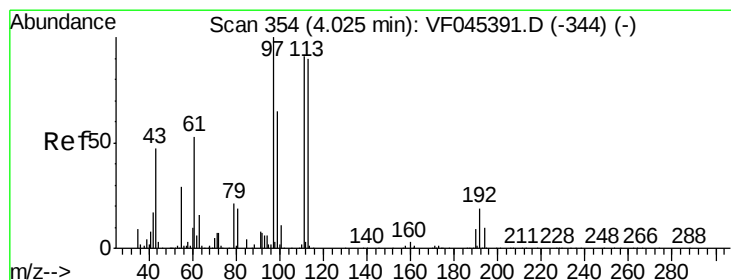
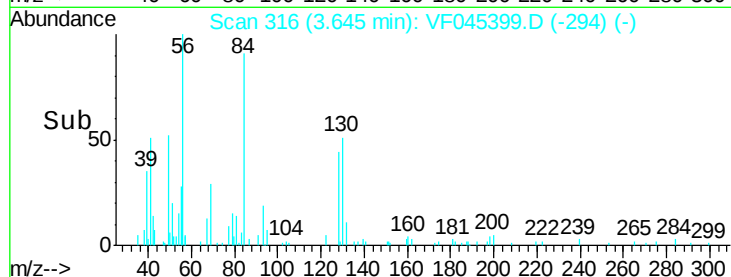
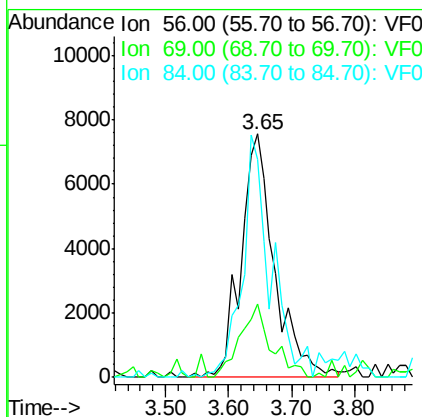
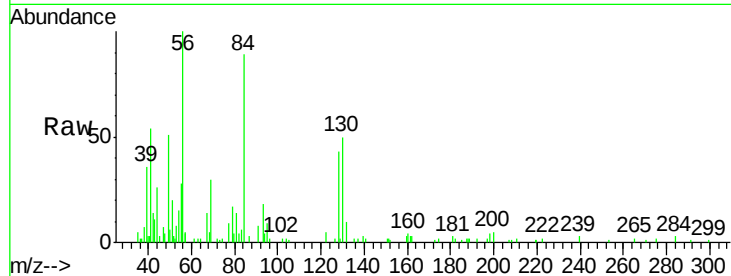




#30
Cyclohexane
Concen: 2.19 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

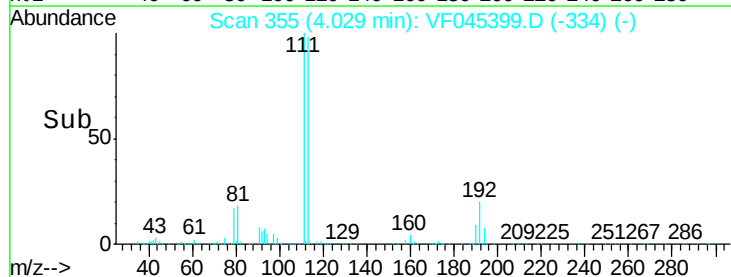
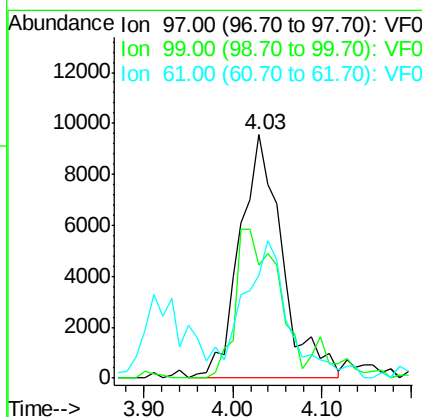
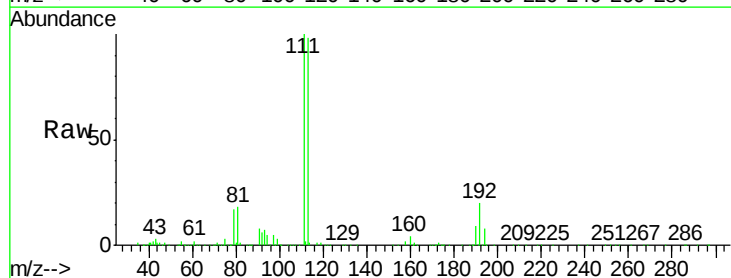
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

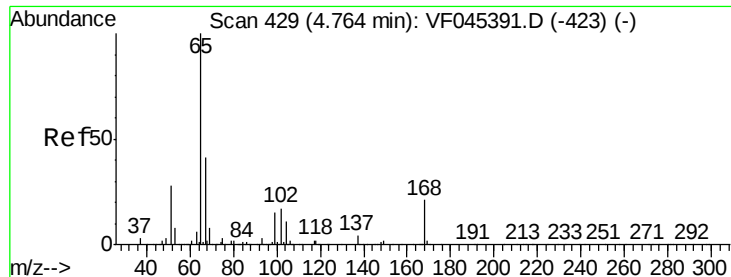
Tgt Ion: 56 Resp: 27950
Ion Ratio Lower Upper
56 100
69 30.1 26.1 39.1
84 89.4 72.2 108.4



#31
1,1,1-Trichloroethane
Concen: 1.92 ug/l
RT: 4.03 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 97 Resp: 31590
Ion Ratio Lower Upper
97 100
99 46.5 51.1 76.7#
61 42.2 37.8 56.6





#32

1,2-Dichloroethane-d4

Concen: 48.03 ug/l

RT: 4.78 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

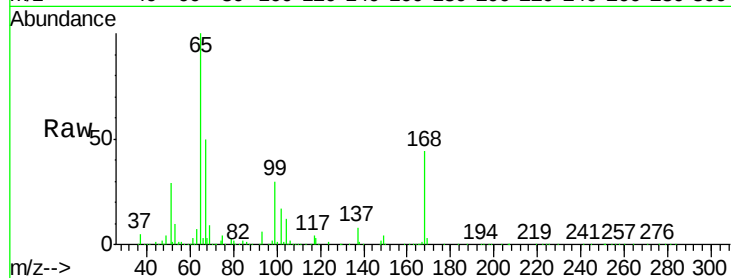
LOD-SOIL2015-01

Tgt Ion: 65 Resp: 530665

Ion Ratio Lower Upper

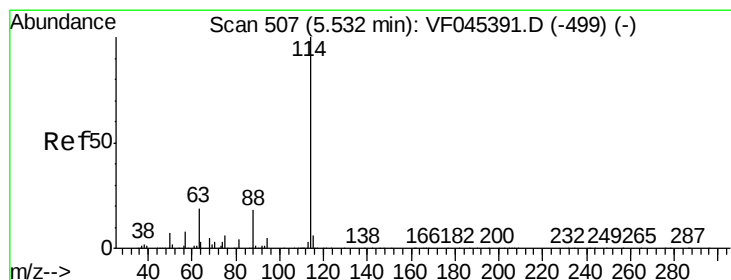
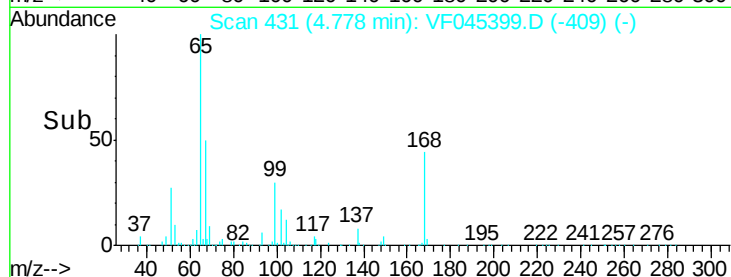
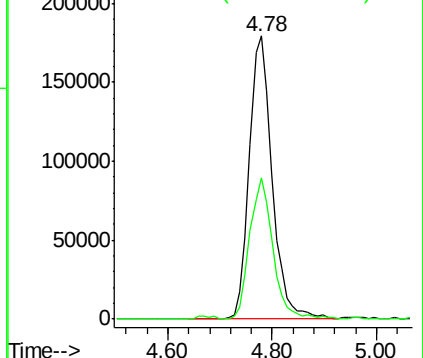
65 100

67 49.7 0.0 102.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.54 min Scan# 508

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

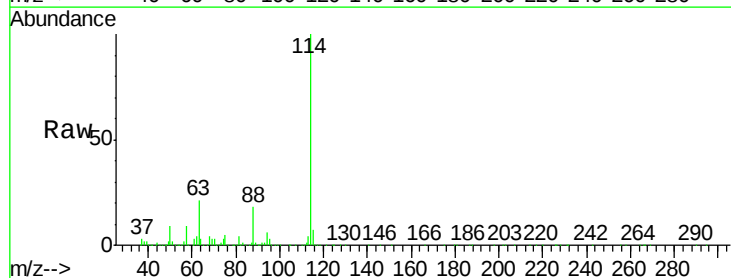
Tgt Ion: 114 Resp: 1447043

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.2

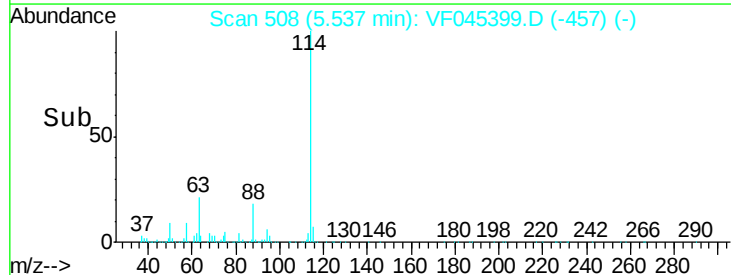
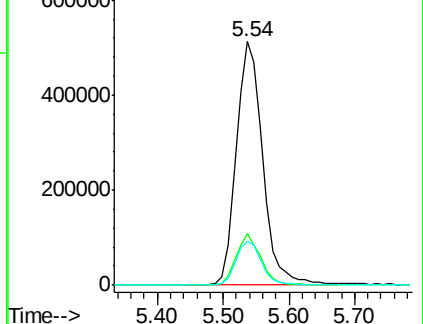
88 18.2 0.0 37.0

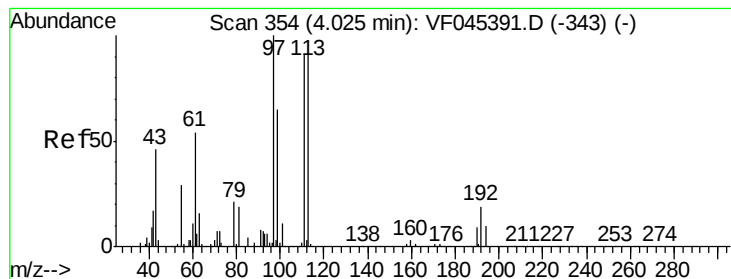


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#34

Dibromofluoromethane

Concen: 52.26 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

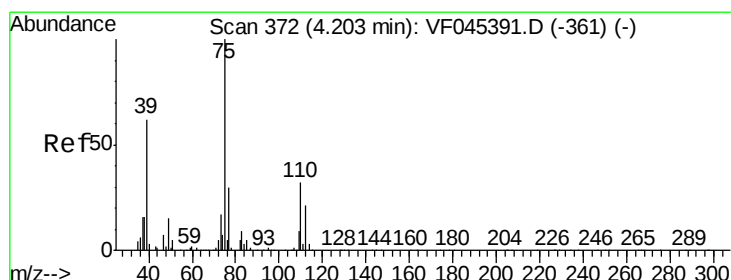
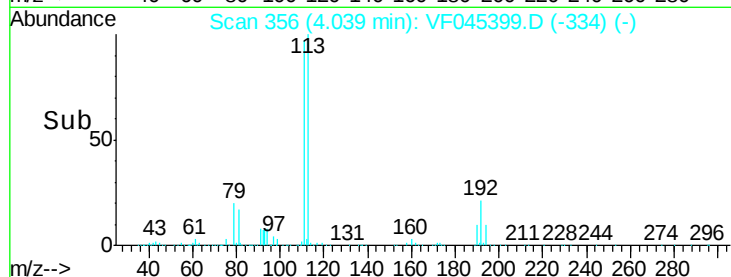
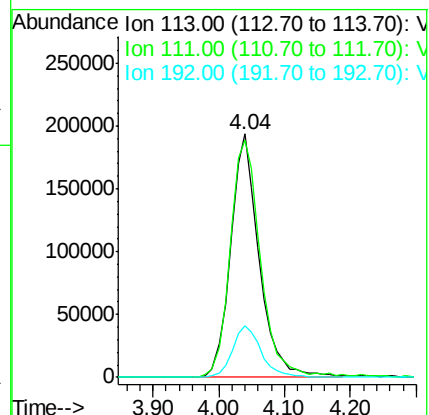
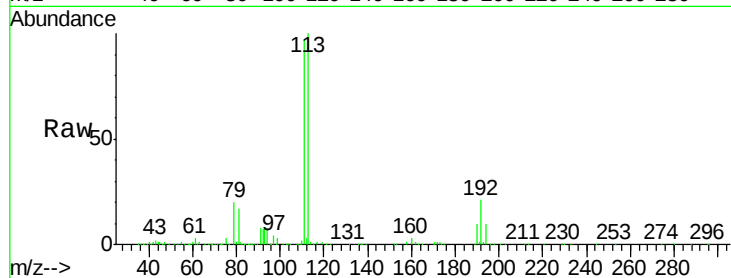
Tgt Ion:113 Resp: 585803

Ion Ratio Lower Upper

113 100

111 97.5 75.5 113.3

192 21.2 15.6 23.4



#35

1,1-Dichloropropene

Concen: 2.99 ug/l

RT: 4.22 min Scan# 374

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

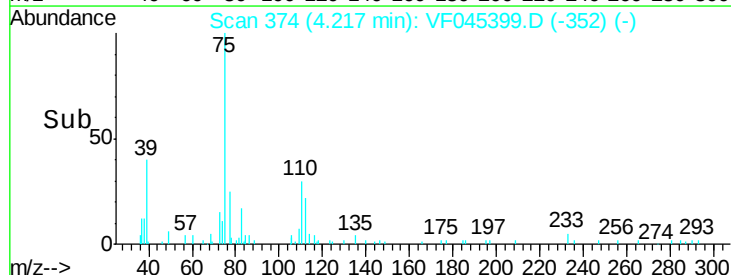
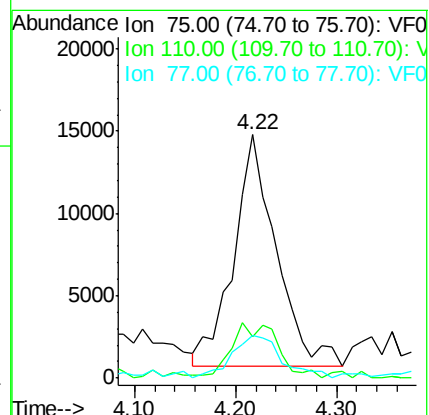
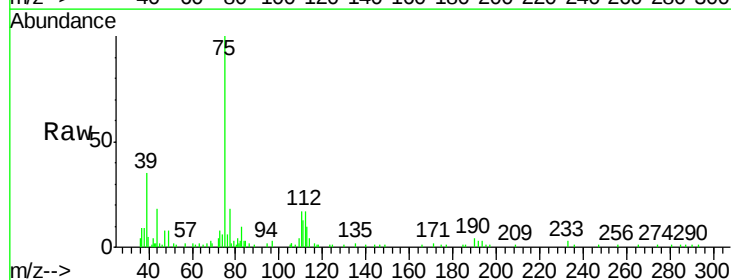
Tgt Ion: 75 Resp: 40982

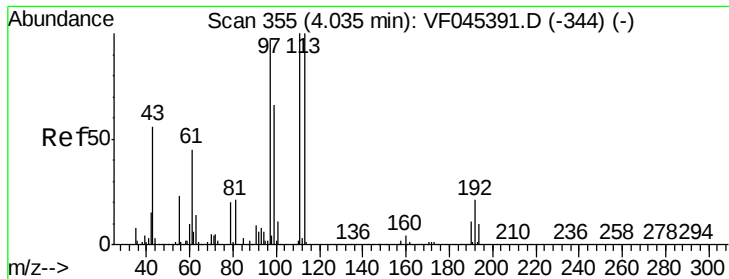
Ion Ratio Lower Upper

75 100

110 16.9 15.9 47.6

77 17.6 24.2 36.4#





#36

Ethyl Acetate

Concen: 3.24 ug/l

RT: 4.02 min Scan# 354

Delta R.T. -0.02 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

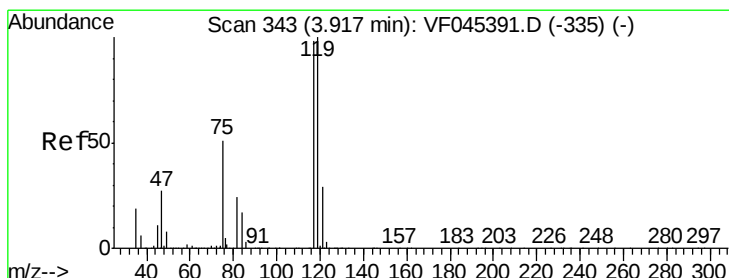
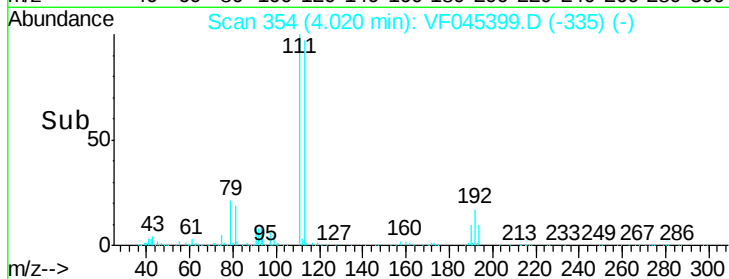
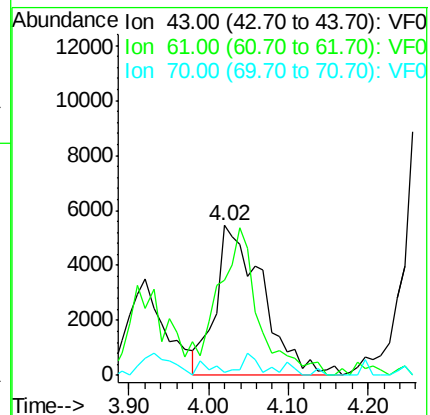
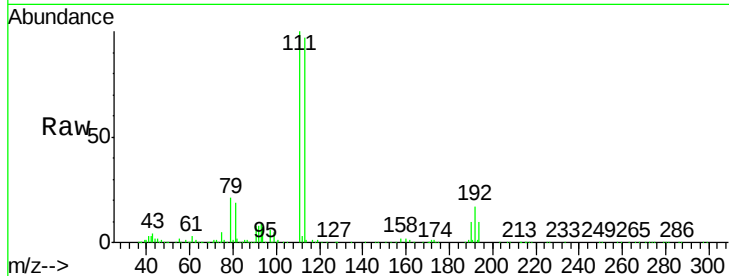
Tgt Ion: 43 Resp: 22522

Ion Ratio Lower Upper

43 100

61 63.1 49.4 74.0

70 2.1 10.8 16.2#



#37

Carbon Tetrachloride

Concen: 1.77 ug/l

RT: 3.93 min Scan# 345

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

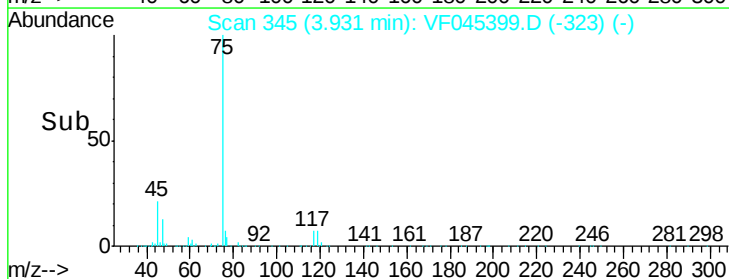
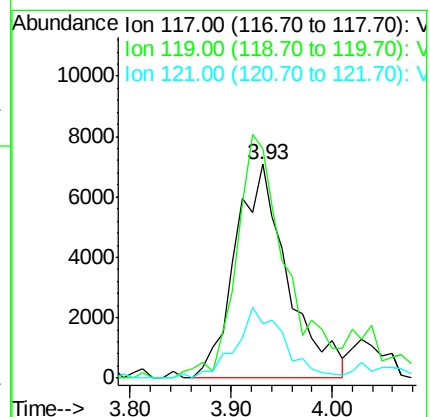
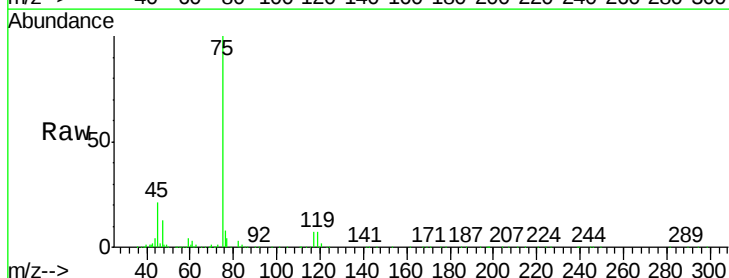
Tgt Ion: 117 Resp: 25634

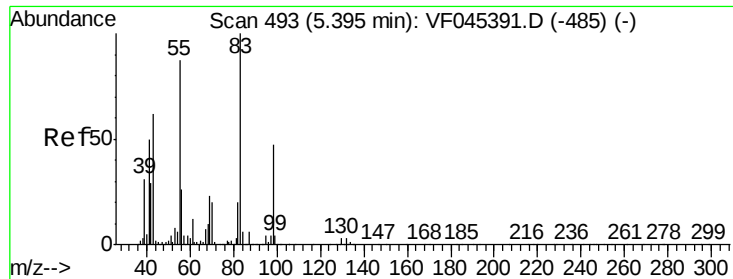
Ion Ratio Lower Upper

117 100

119 107.5 77.8 116.8

121 25.6 25.4 38.0

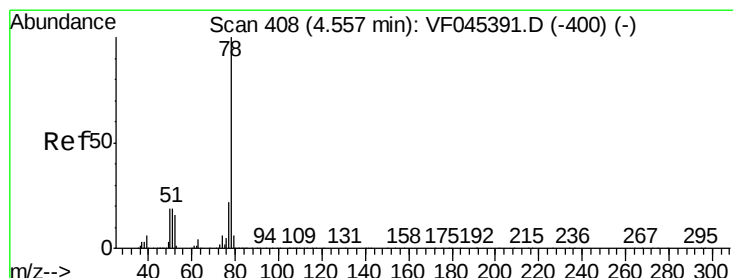
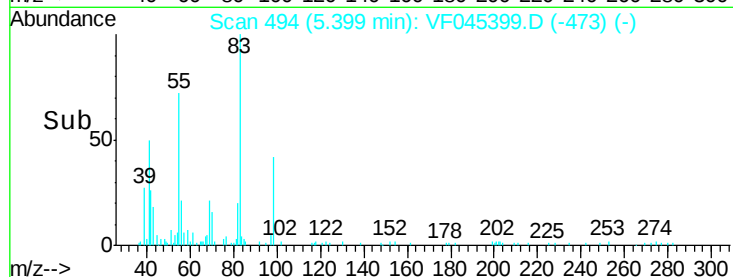
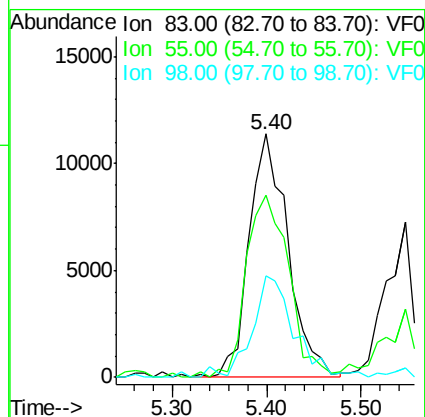
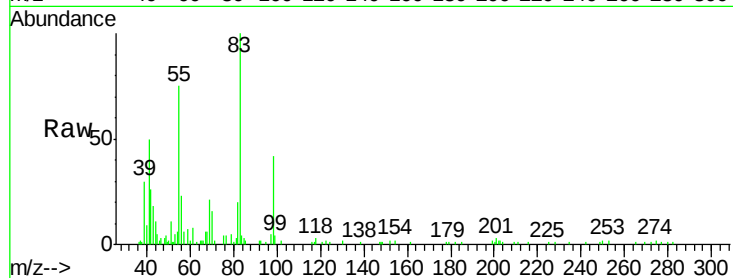




#38
Methylcyclohexane
Concen: 2.21 ug/l
RT: 5.40 min Scan# 494
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

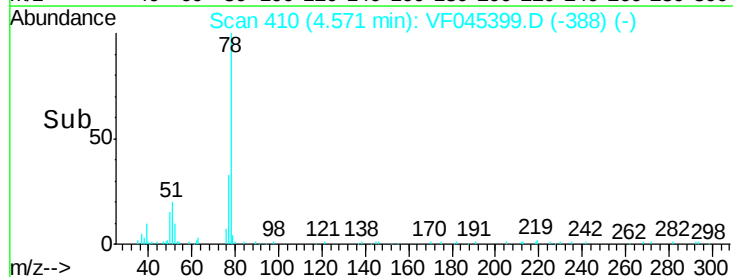
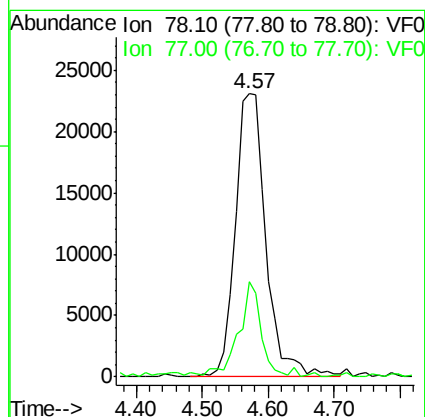
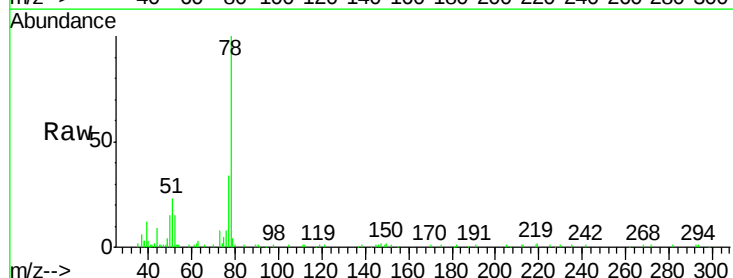
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

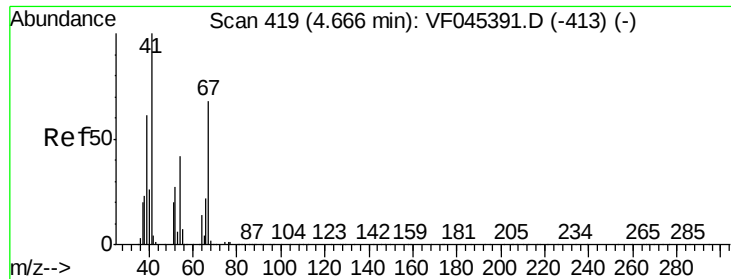
Tgt Ion: 83 Resp: 32562
Ion Ratio Lower Upper
83 100
55 75.1 60.5 90.7
98 41.7 38.1 57.1



#39
Benzene
Concen: 2.34 ug/l
RT: 4.57 min Scan# 410
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 78 Resp: 75225
Ion Ratio Lower Upper
78 100
77 33.7 18.6 28.0#

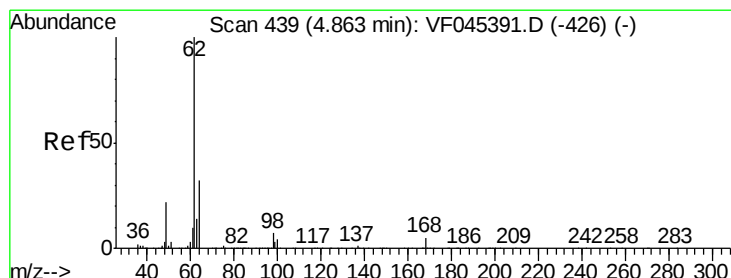
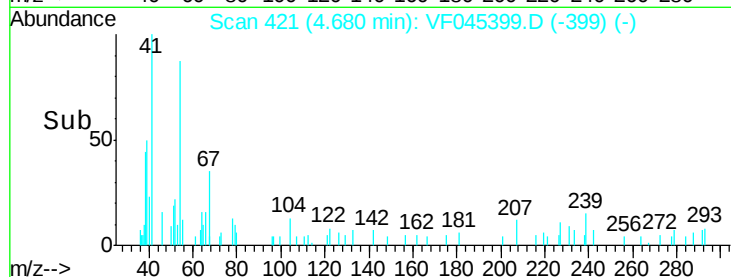
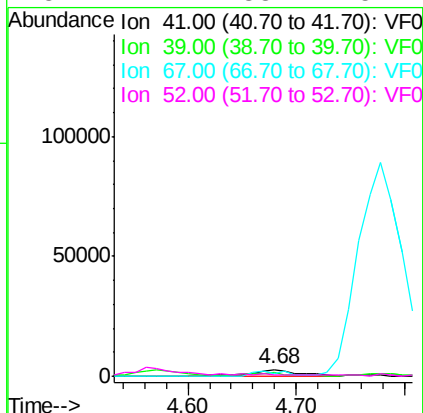
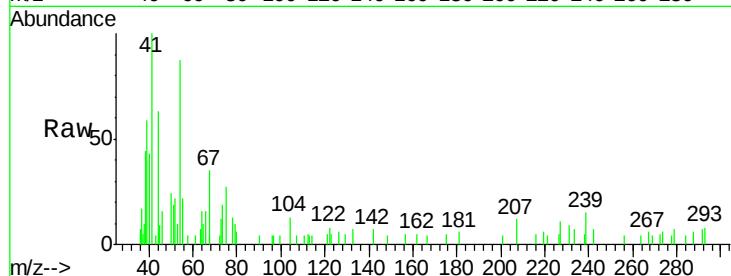




#40
Methacrylonitrile
Concen: 2.68 ug/l
RT: 4.68 min Scan# 421
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

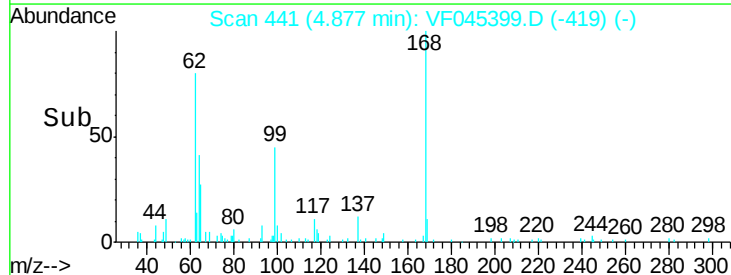
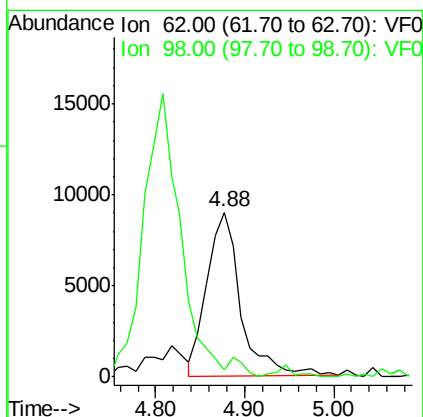
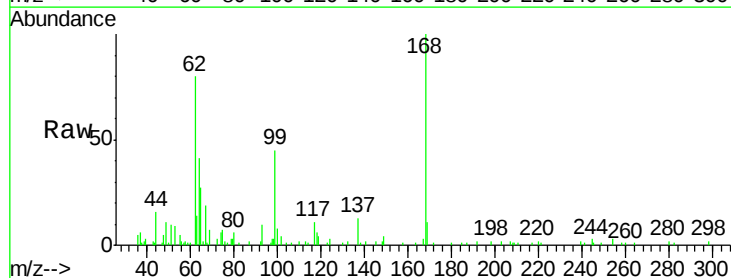
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

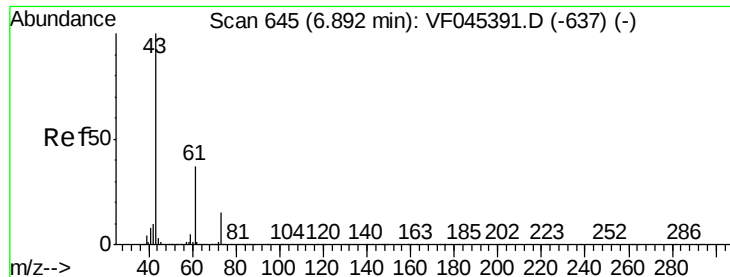
Tgt Ion:	41	Resp:	8801
Ion	Ratio	Lower	Upper
41	100		
39	58.9	44.9	67.3
67	35.4	49.0	73.4#
52	22.4	38.2	57.2#



#41
1,2-Dichloroethane
Concen: 1.83 ug/l
RT: 4.88 min Scan# 441
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion:	62	Resp:	23633
Ion	Ratio	Lower	Upper
62	100		
98	4.2	0.0	17.0





#42

Isopropyl Acetate

Concen: 2.27 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

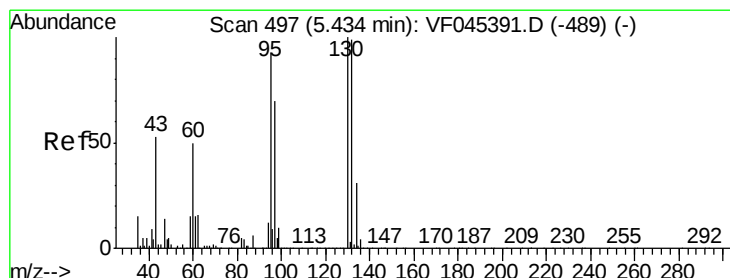
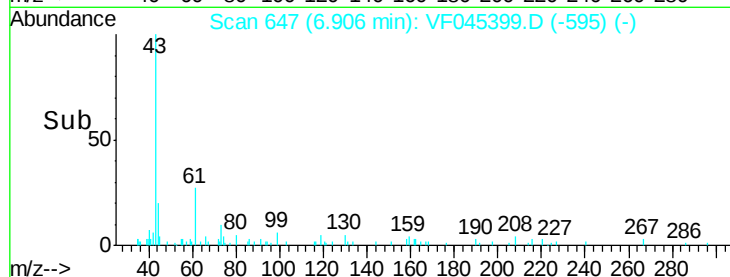
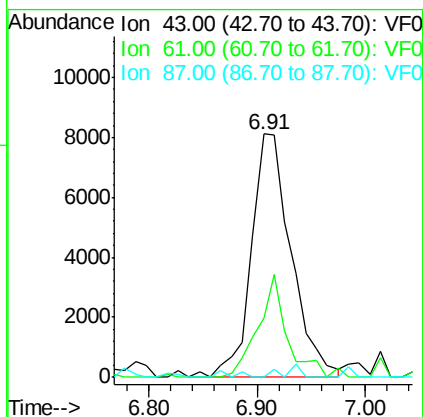
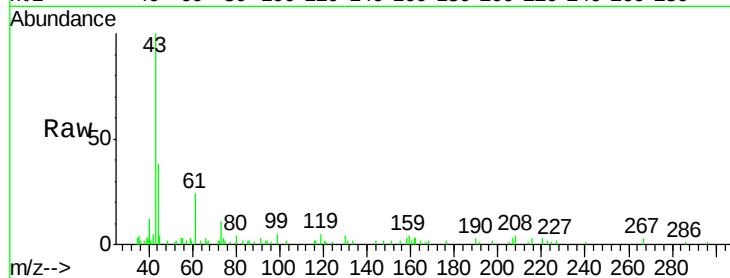
Tgt Ion: 43 Resp: 20736

Ion Ratio Lower Upper

43 100

61 24.1 29.8 44.6#

87 0.0 0.2 0.2#



#43

Trichloroethene

Concen: 2.03 ug/l

RT: 5.45 min Scan# 499

Delta R.T. 0.01 min

Lab File: VF045399.D

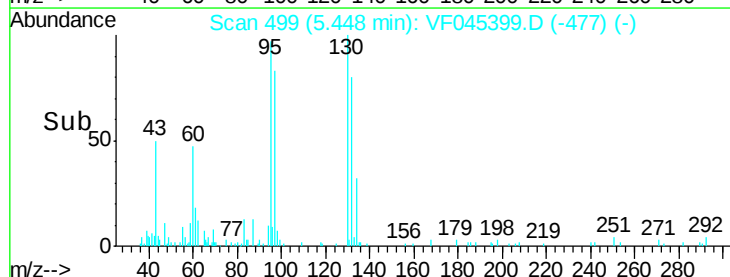
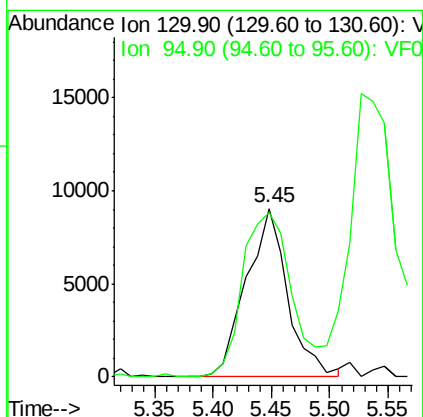
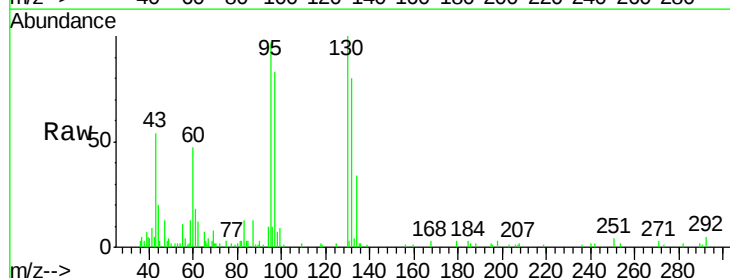
Acq: 16 Sep 2015 20:06

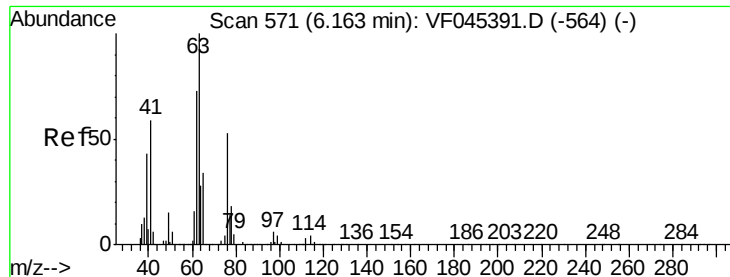
Tgt Ion: 130 Resp: 22254

Ion Ratio Lower Upper

130 100

95 97.1 0.0 192.2





#44

1,2-Dichloropropane

Concen: 2.14 ug/l

RT: 6.18 min Scan# 573

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

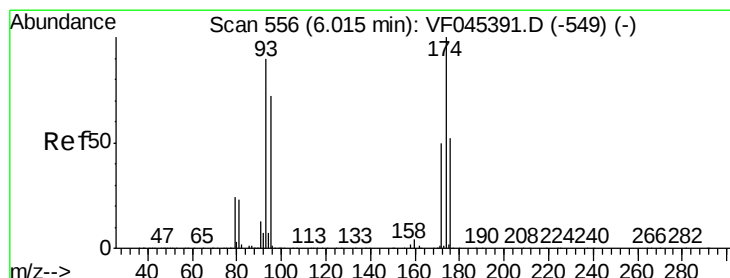
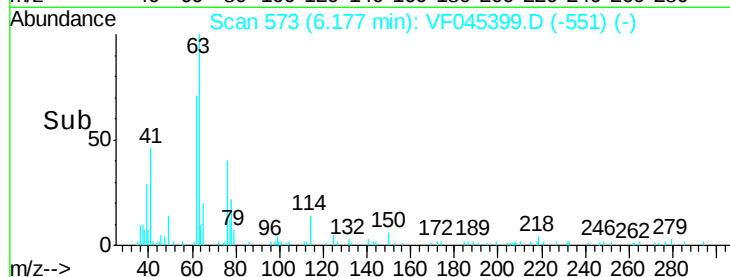
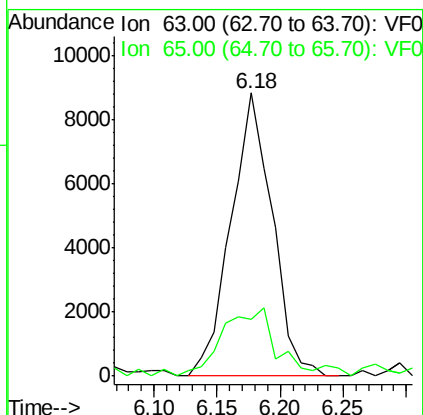
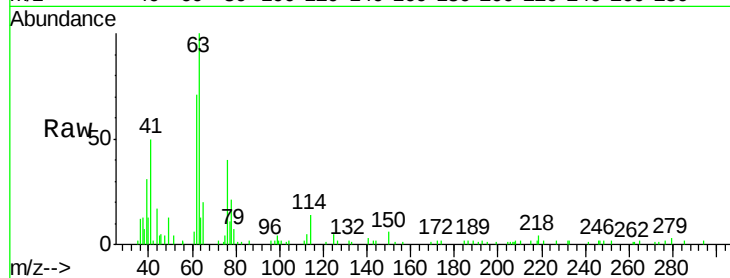
LOD-SOIL2015-01

Tgt Ion: 63 Resp: 20057

Ion Ratio Lower Upper

63 100

65 19.9 25.6 38.4#



#45

Dibromomethane

Concen: 1.95 ug/l

RT: 6.02 min Scan# 557

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

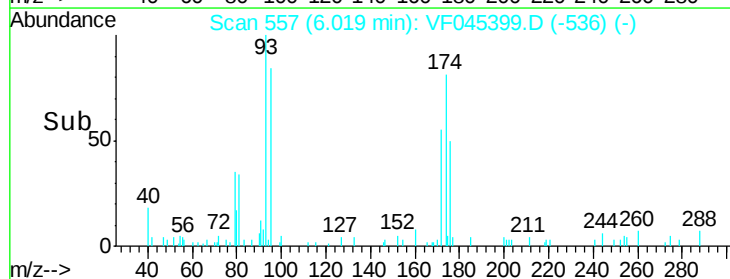
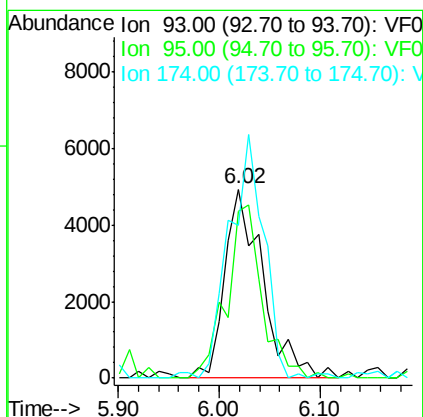
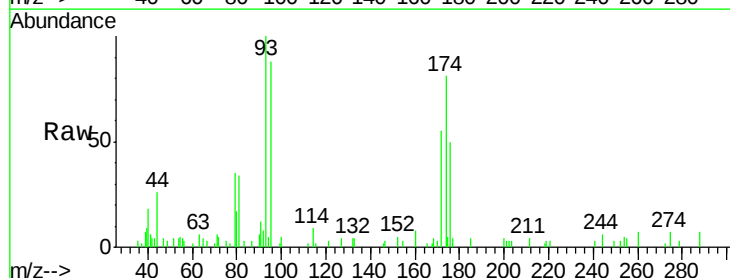
Tgt Ion: 93 Resp: 12991

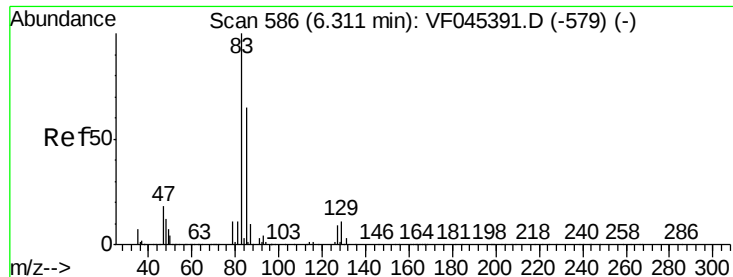
Ion Ratio Lower Upper

93 100

95 88.3 69.8 104.6

174 81.0 90.5 135.7#





#46

Bromodichloromethane

Concen: 1.83 ug/l

RT: 6.31 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

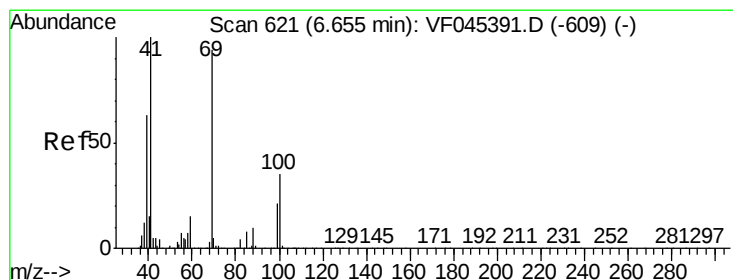
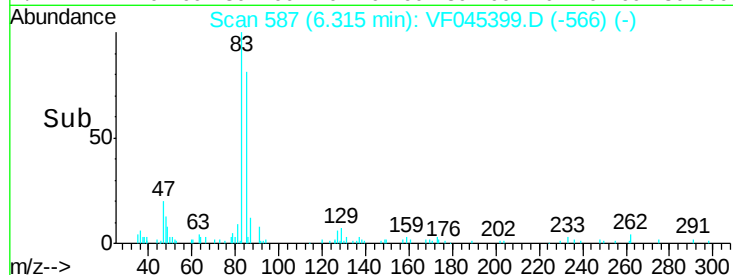
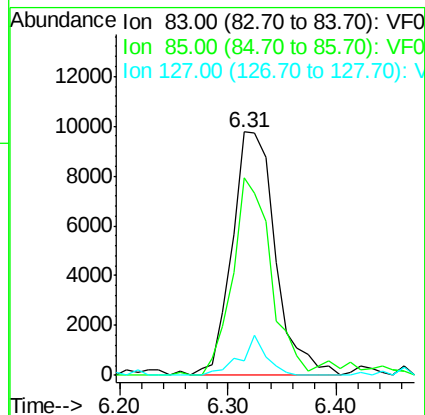
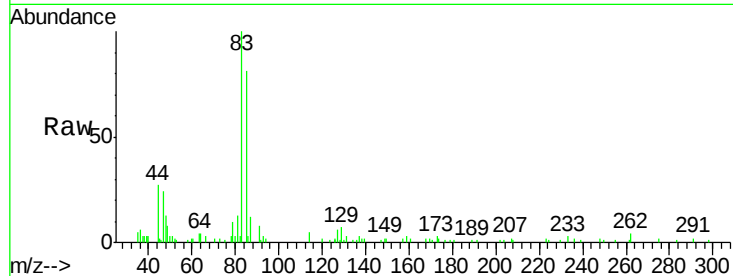
Tgt Ion: 83 Resp: 27250

Ion Ratio Lower Upper

83 100

85 81.1 50.6 75.8#

127 5.9 7.7 11.5#



#47

Methyl methacrylate

Concen: 2.23 ug/l

RT: 6.67 min Scan# 623

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

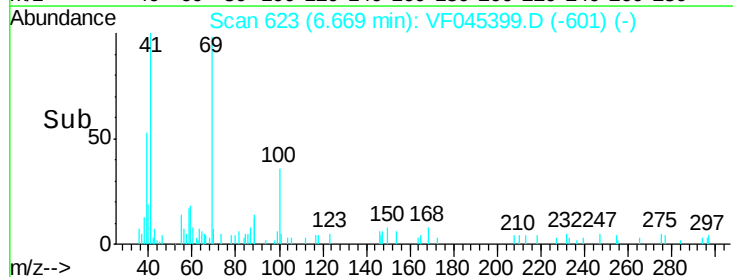
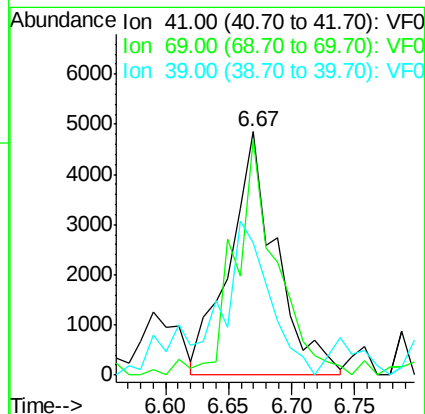
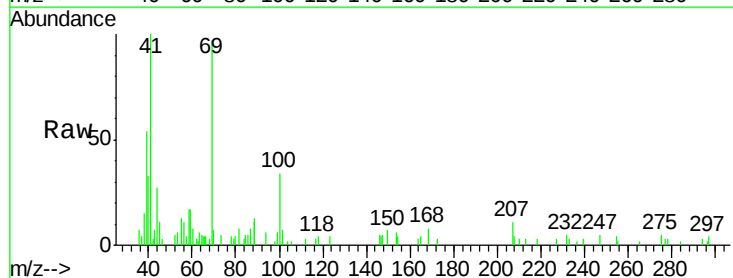
Tgt Ion: 41 Resp: 12368

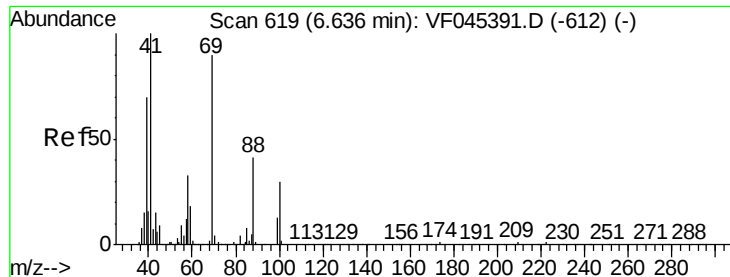
Ion Ratio Lower Upper

41 100

69 96.9 63.3 94.9#

39 54.1 48.9 73.3

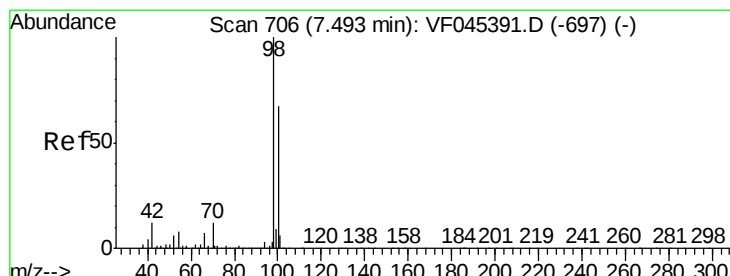
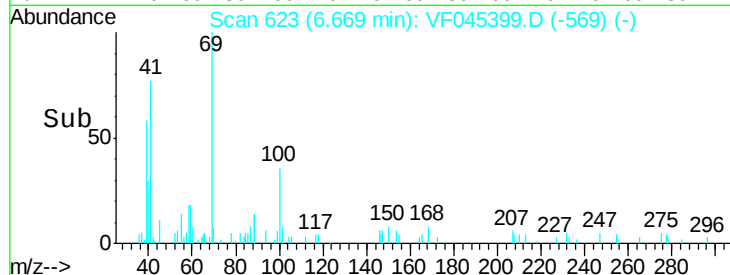
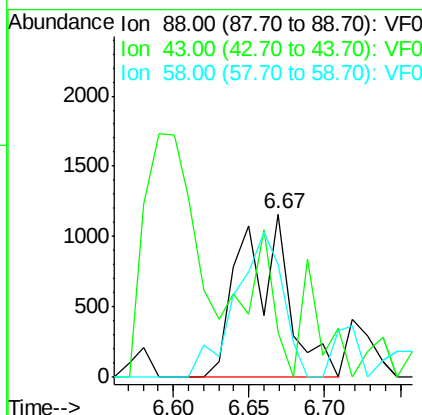
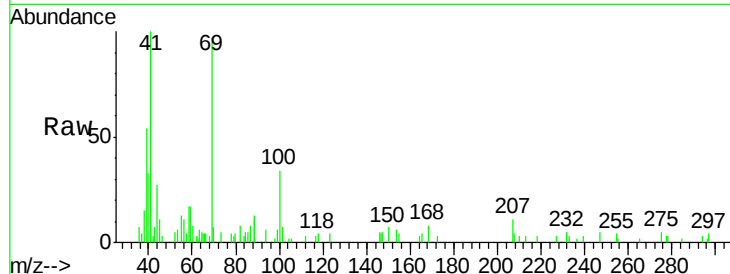




#48
1,4-Dioxane
Concen: 38.04 ug/l
RT: 6.67 min Scan# 623
Delta R.T. 0.03 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

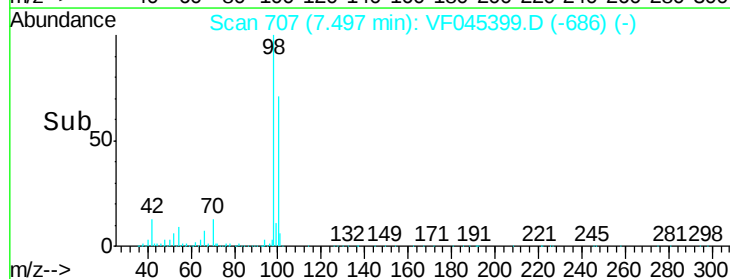
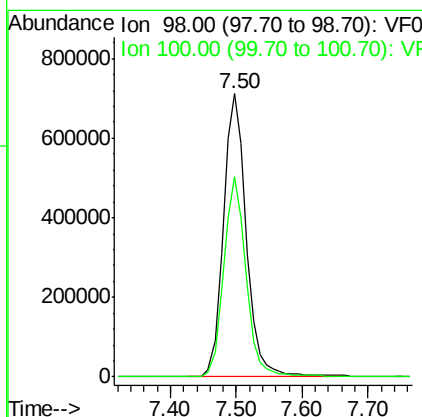
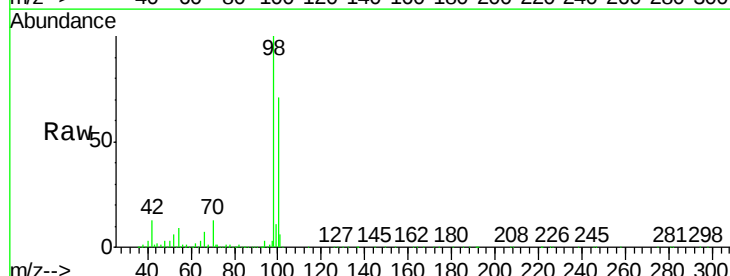
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

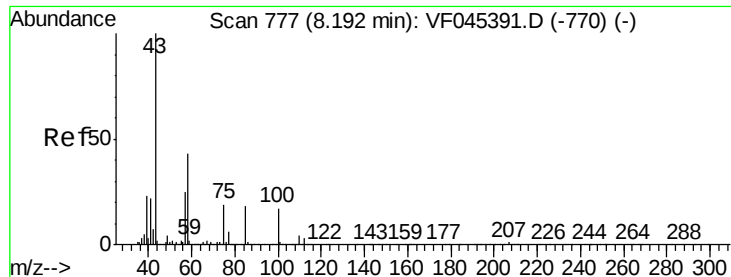
Tgt Ion: 88 Resp: 2531
Ion Ratio Lower Upper
88 100
43 27.8 34.5 51.7#
58 69.6 46.5 69.7



#49
Toluene-d8
Concen: 52.71 ug/l
RT: 7.50 min Scan# 707
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 98 Resp: 1740509
Ion Ratio Lower Upper
98 100
100 70.8 54.4 81.6





#50

4-Methyl-2-Pentanone

Concen: 12.54 ug/l

RT: 8.21 min Scan# 779

Delta R.T. 0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

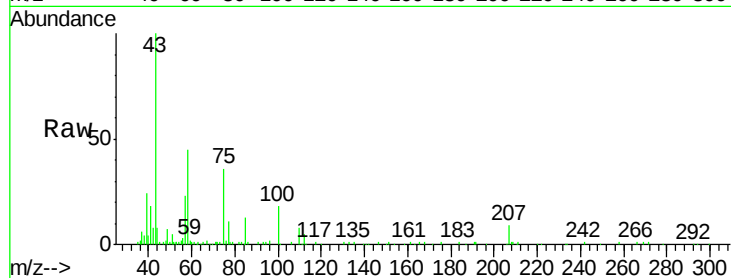
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 81624

Ion Ratio Lower Upper

43 100

58 44.5 33.6 50.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.21

30000

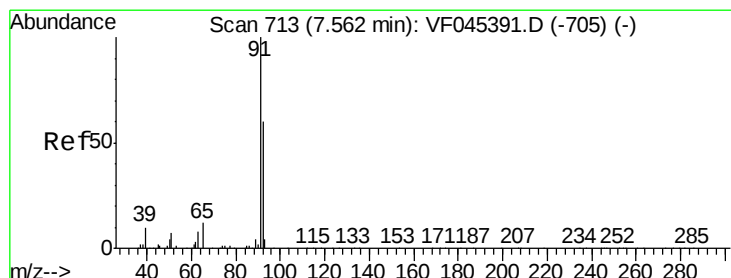
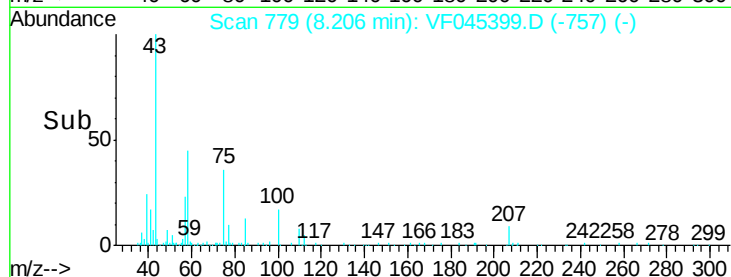
20000

10000

0

8.10 8.20 8.30

Time-->



#51

Toluene

Concen: 2.19 ug/l

RT: 7.57 min Scan# 714

Delta R.T. 0.00 min

Lab File: VF045399.D

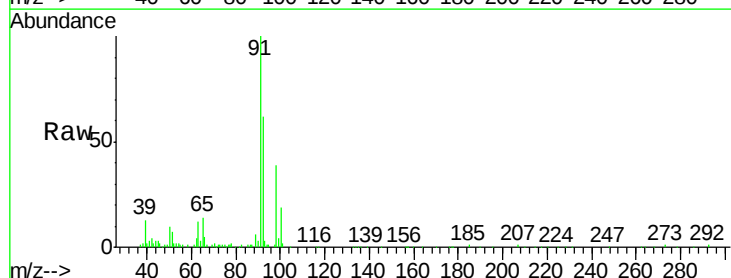
Acq: 16 Sep 2015 20:06

Tgt Ion: 92 Resp: 54163

Ion Ratio Lower Upper

92 100

91 160.7 133.4 200.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.57

40000

30000

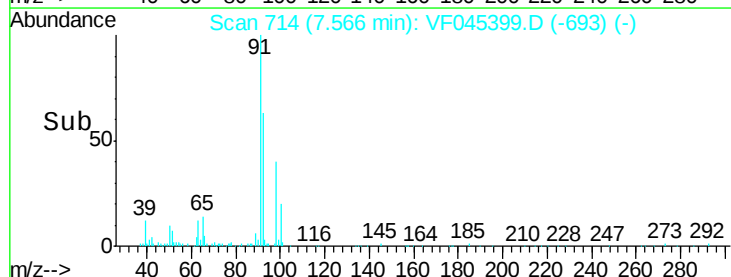
20000

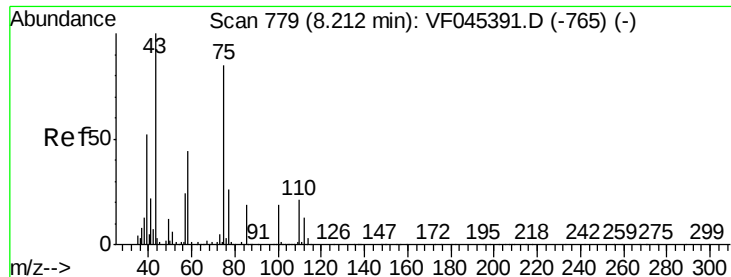
10000

0

7.50 7.60 7.70

Time-->





#52

t-1,3-Dichloropropene

Concen: 2.04 ug/l

RT: 8.21 min Scan# 779

Delta R.T. -0.01 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

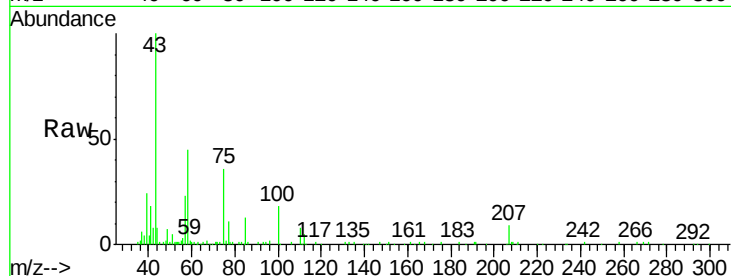
LOD-SOIL2015-01

Tgt Ion: 75 Resp: 27309

Ion Ratio Lower Upper

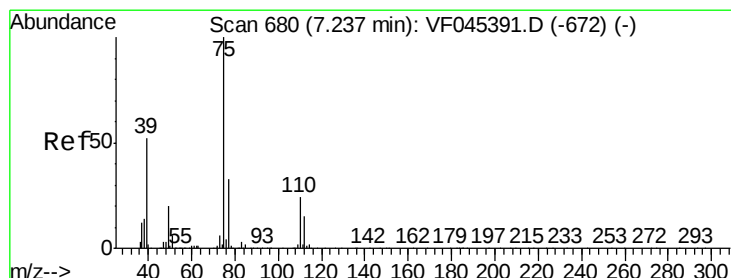
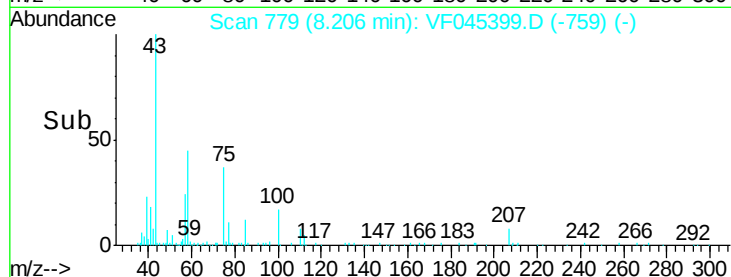
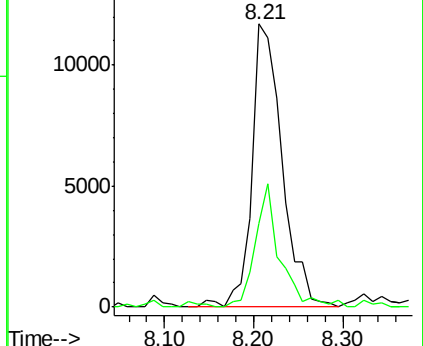
75 100

77 33.4 28.1 42.1



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#53

cis-1,3-Dichloropropene

Concen: 1.96 ug/l

RT: 7.24 min Scan# 681

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

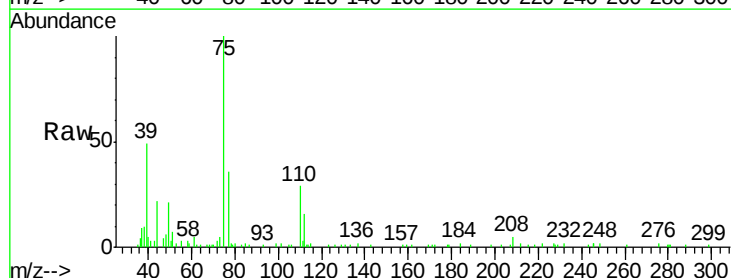
Tgt Ion: 75 Resp: 31026

Ion Ratio Lower Upper

75 100

77 35.9 25.5 38.3

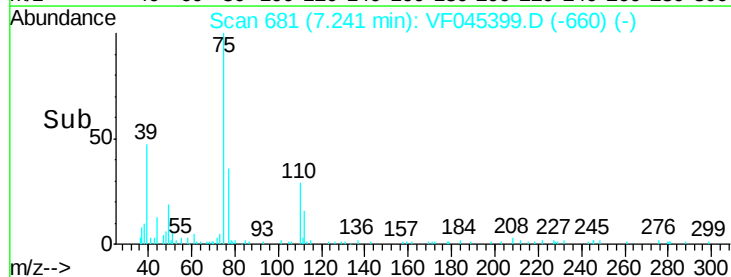
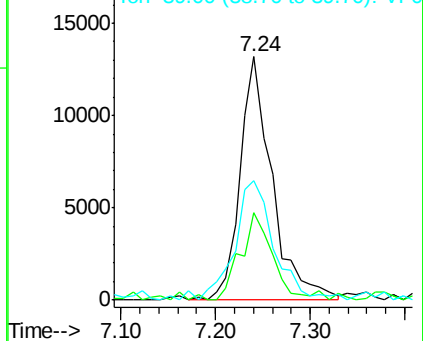
39 48.9 41.6 62.4

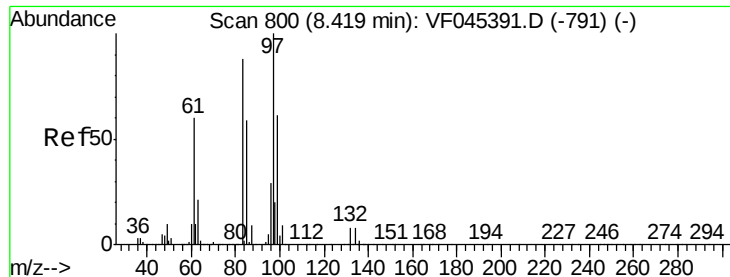


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#54

1,1,2-Trichloroethane

Concen: 2.35 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 97 Resp: 19683

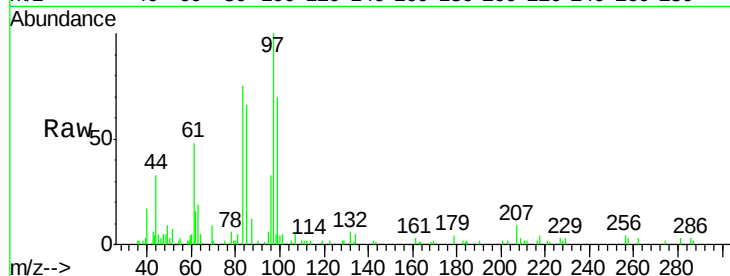
Ion Ratio Lower Upper

97 100

83 75.2 70.1 105.1

85 65.8 47.4 71.2

99 70.4 50.6 75.8

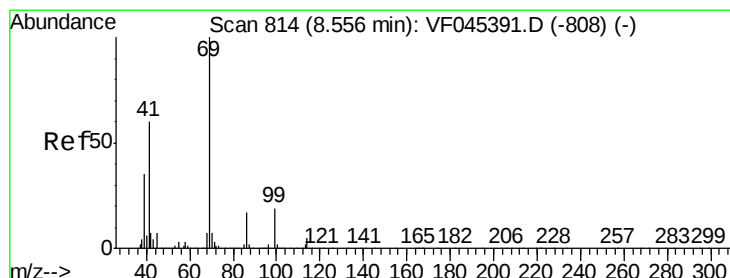
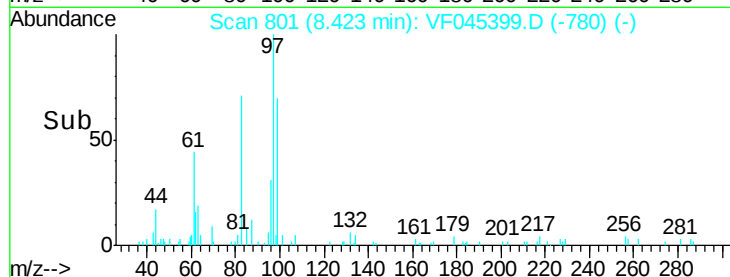
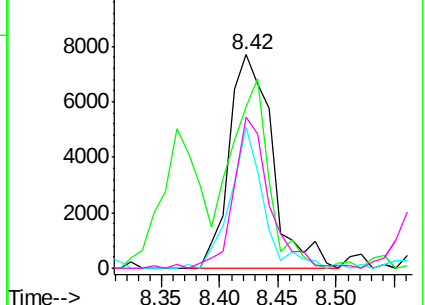


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#55

Ethyl methacrylate

Concen: 1.91 ug/l

RT: 8.56 min Scan# 815

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

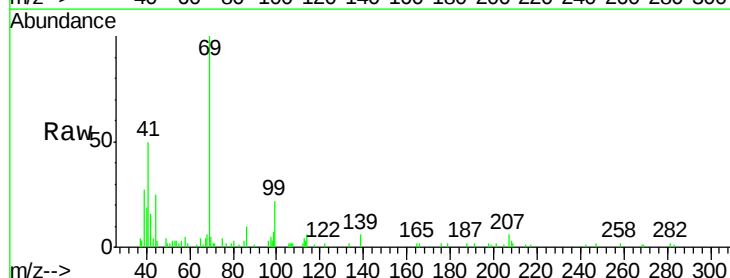
Tgt Ion: 69 Resp: 20754

Ion Ratio Lower Upper

69 100

41 49.8 51.0 76.4#

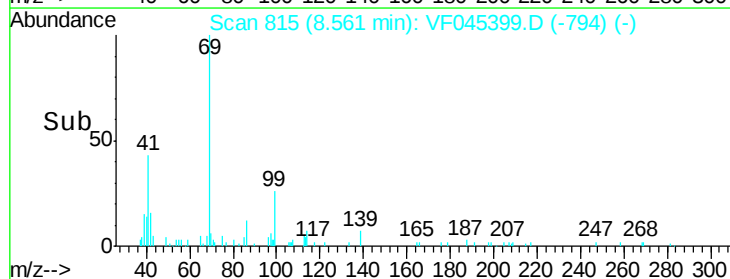
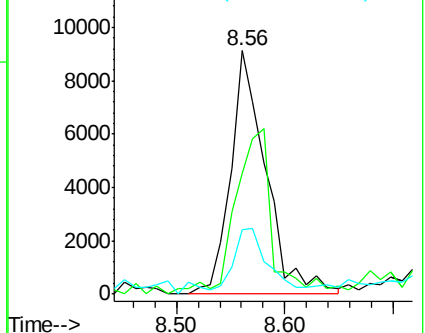
39 26.6 29.1 43.7#

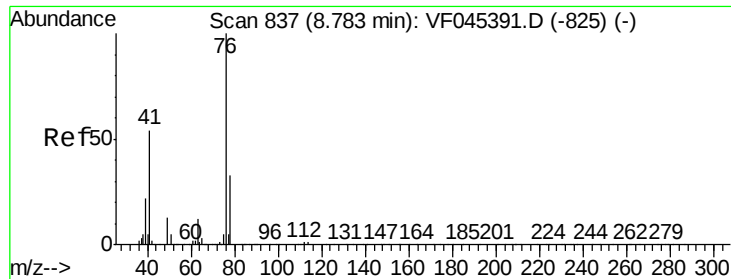


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

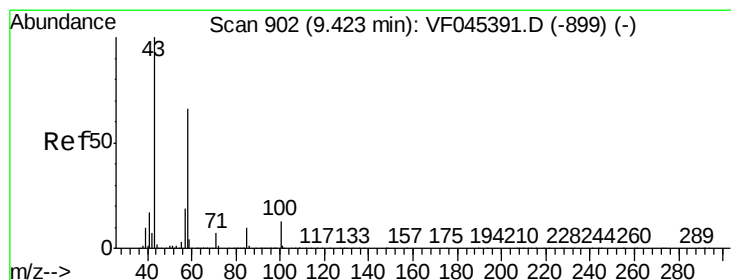
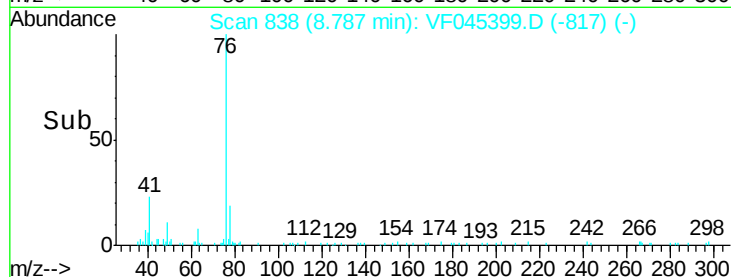
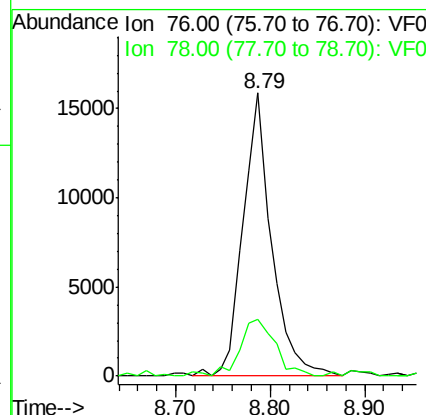
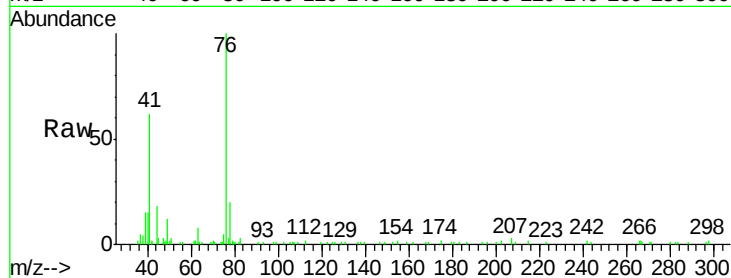




#56
 1,3-Dichloropropane
 Concen: 2.43 ug/l
 RT: 8.79 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

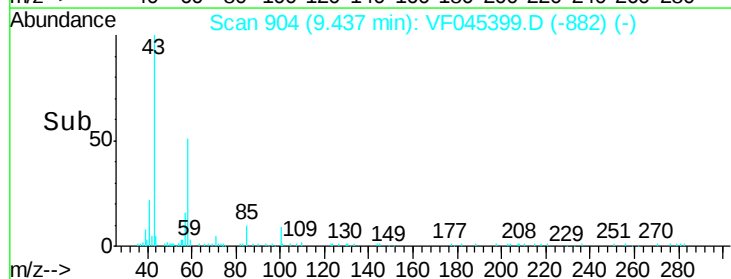
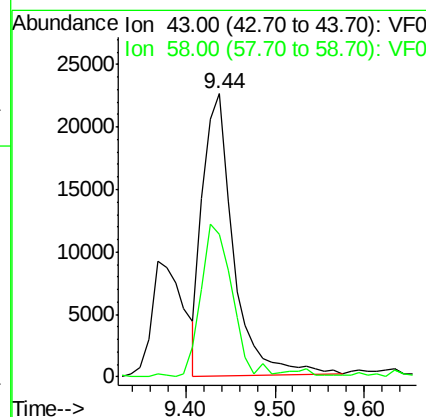
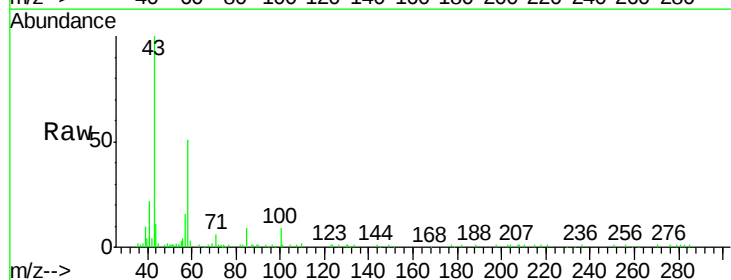
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

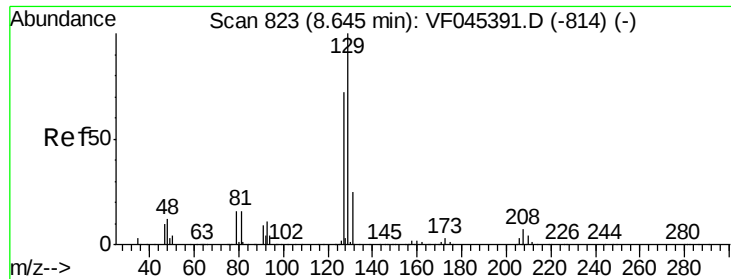
Tgt Ion: 76 Resp: 33209
 Ion Ratio Lower Upper
 76 100
 78 19.9 26.1 39.1#



#58
 2-Hexanone
 Concen: 10.28 ug/l
 RT: 9.44 min Scan# 904
 Delta R.T. 0.01 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion: 43 Resp: 53231
 Ion Ratio Lower Upper
 43 100
 58 50.5 28.8 86.5





#59

Dibromochloromethane

Concen: 1.72 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

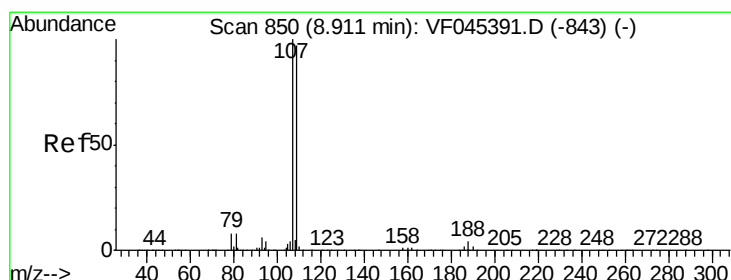
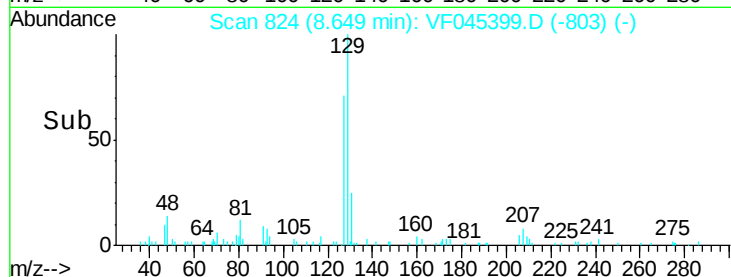
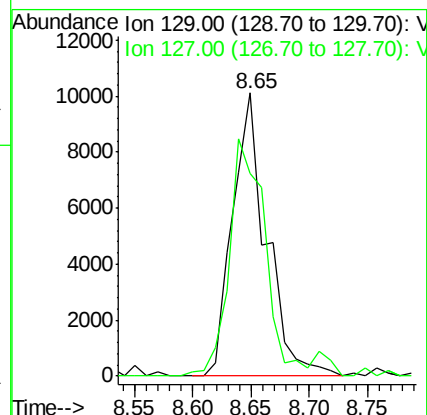
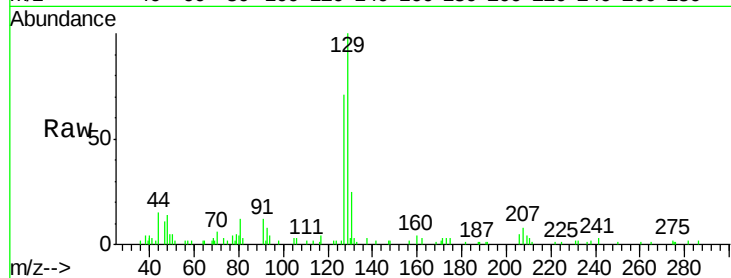
LOD-SOIL2015-01

Tgt Ion:129 Resp: 20421

Ion Ratio Lower Upper

129 100

127 71.4 38.2 114.6



#60

1,2-Dibromoethane

Concen: 2.15 ug/l

RT: 8.92 min Scan# 851

Delta R.T. 0.00 min

Lab File: VF045399.D

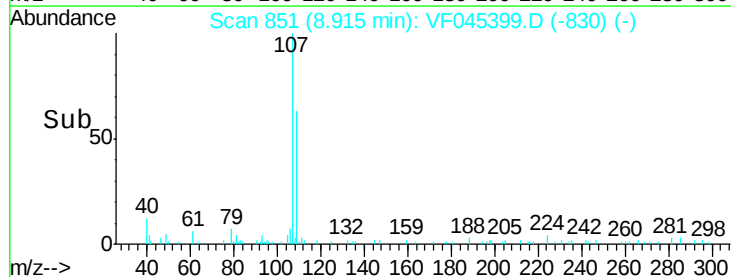
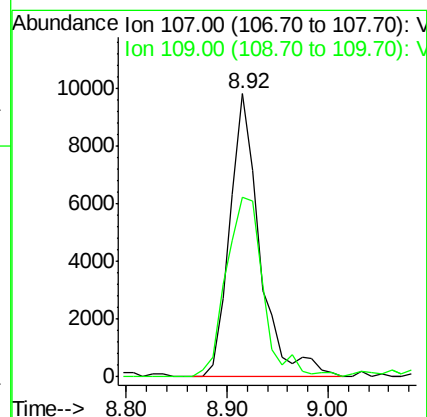
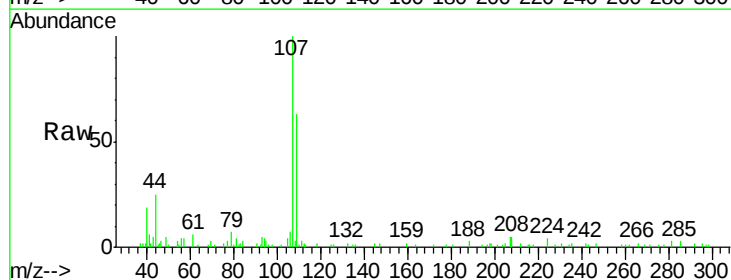
Acq: 16 Sep 2015 20:06

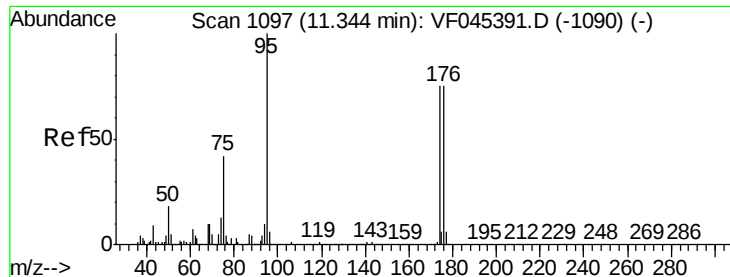
Tgt Ion:107 Resp: 20372

Ion Ratio Lower Upper

107 100

109 63.4 79.4 119.0#





#61

4-Bromofluorobenzene

Concen: 50.81 ug/l

RT: 11.35 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

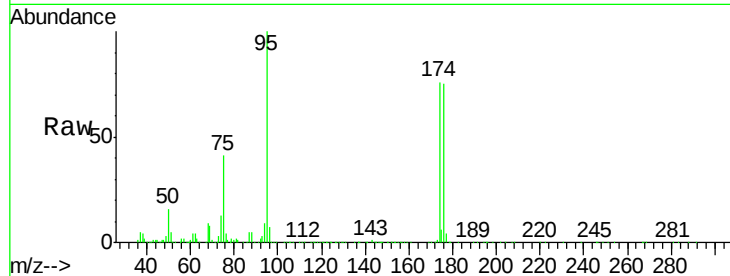
Tgt Ion: 95 Resp: 806506

Ion Ratio Lower Upper

95 100

174 76.5 0.0 177.8

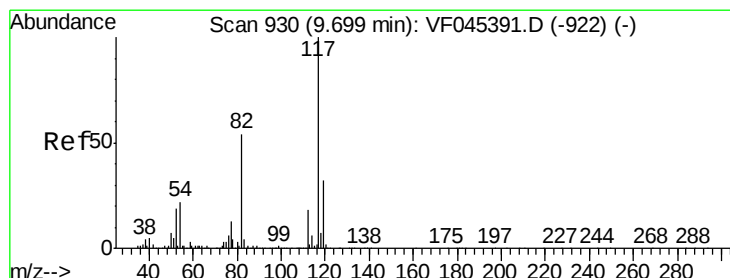
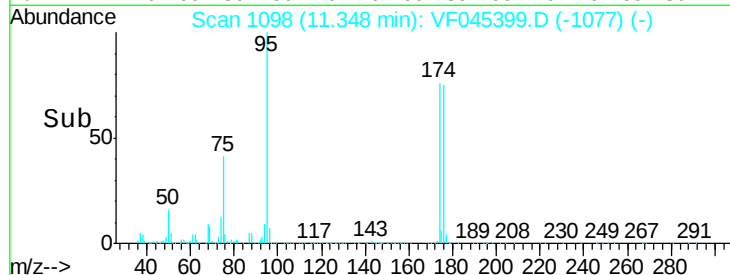
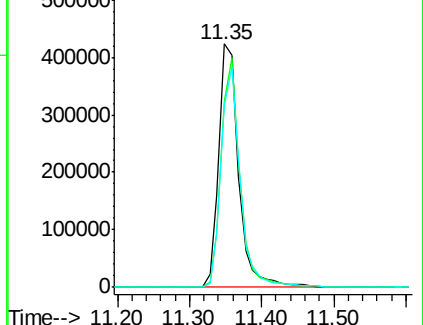
176 74.9 0.0 176.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.70 min Scan# 931

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

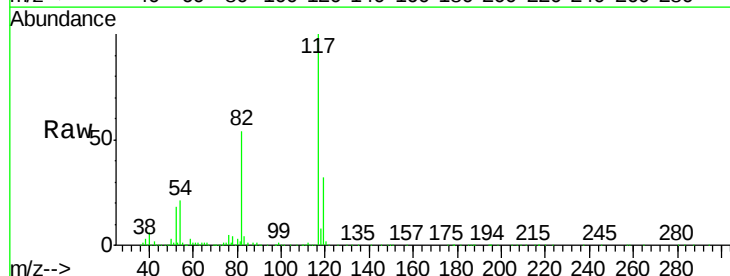
Tgt Ion: 117 Resp: 1423695

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.6

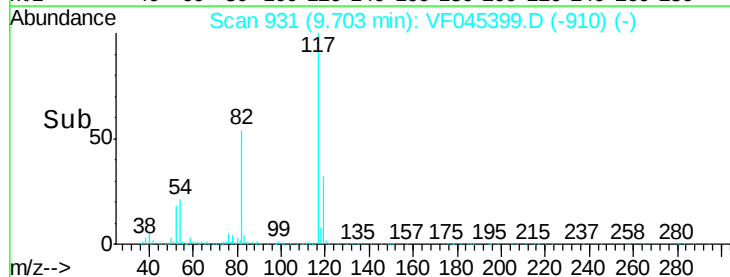
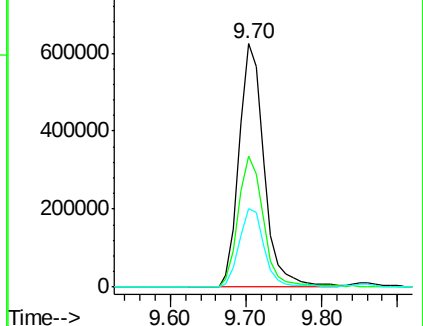
119 32.3 26.2 39.4

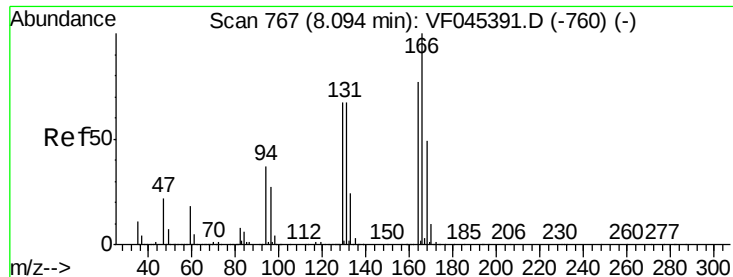


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

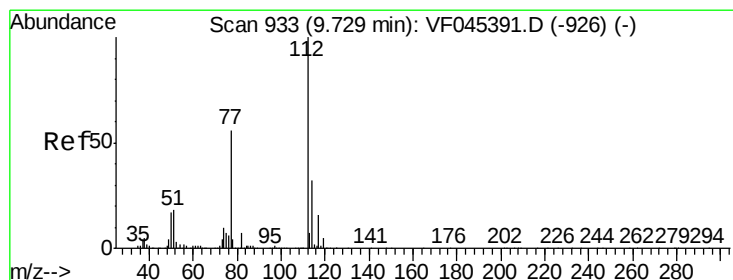
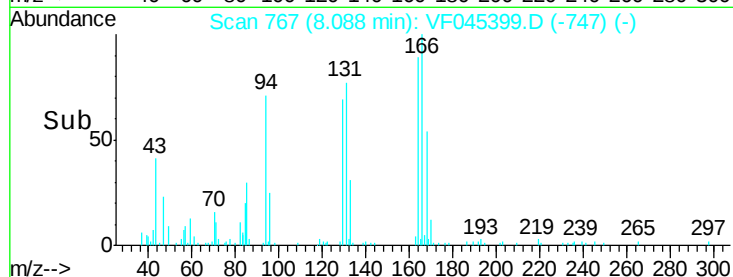
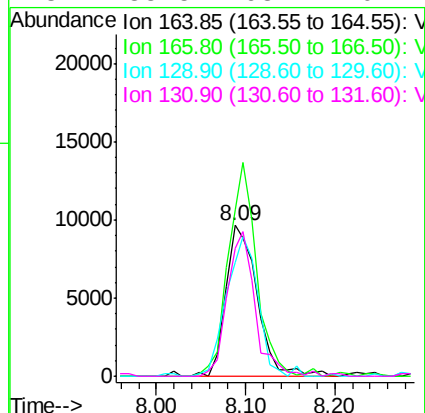
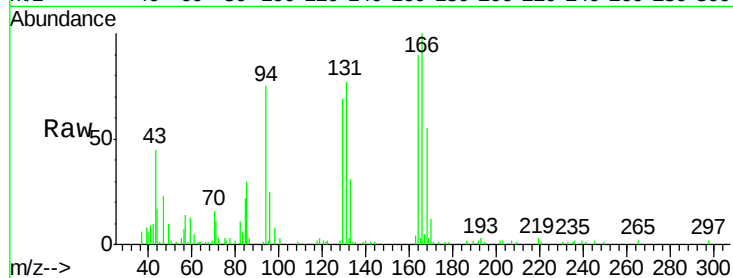




#63
Tetrachloroethene
Concen: 2.12 ug/l
RT: 8.09 min Scan# 767
Delta R.T. -0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

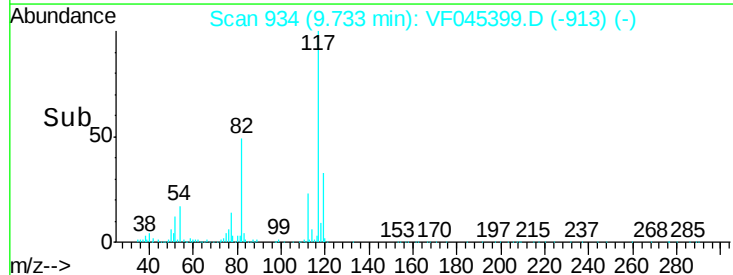
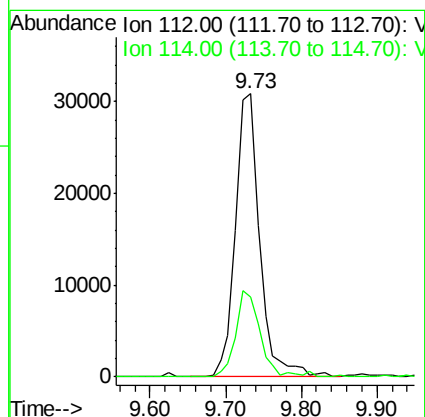
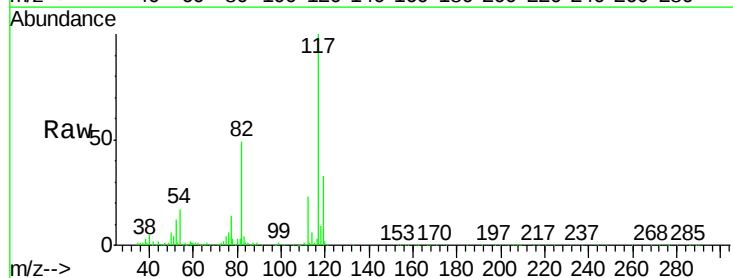
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

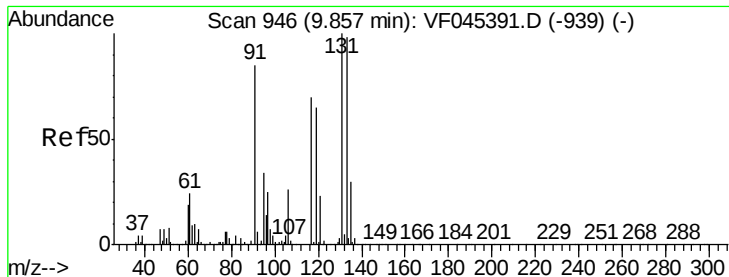
Tgt Ion:164 Resp: 23933
Ion Ratio Lower Upper
164 100
166 110.8 106.0 159.0
129 76.1 69.8 104.6
131 85.5 68.2 102.4



#64
Chlorobenzene
Concen: 2.28 ug/l
RT: 9.73 min Scan# 934
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion:112 Resp: 68133
Ion Ratio Lower Upper
112 100
114 28.1 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 1.99 ug/l

RT: 9.86 min Scan# 947

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

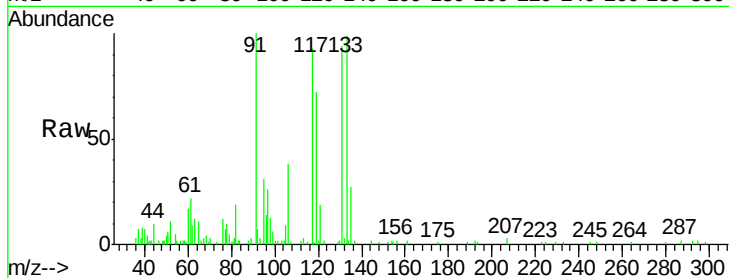
Tgt Ion:131 Resp: 21773

Ion Ratio Lower Upper

131 100

133 104.9 48.1 144.4

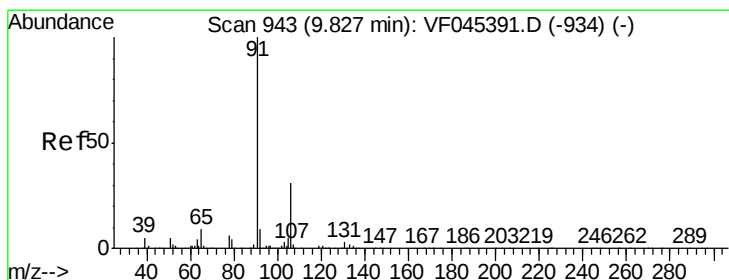
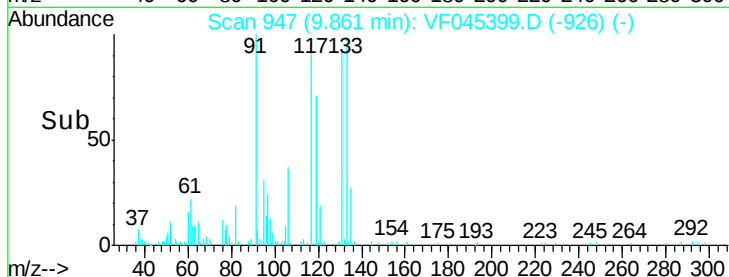
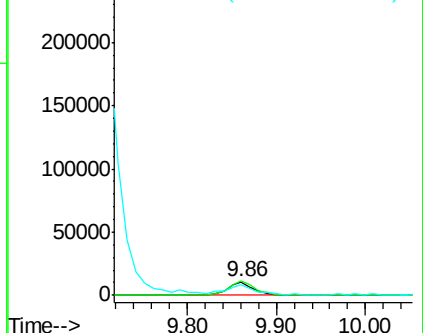
119 76.7 34.8 104.5



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 2.06 ug/l

RT: 9.83 min Scan# 944

Delta R.T. 0.00 min

Lab File: VF045399.D

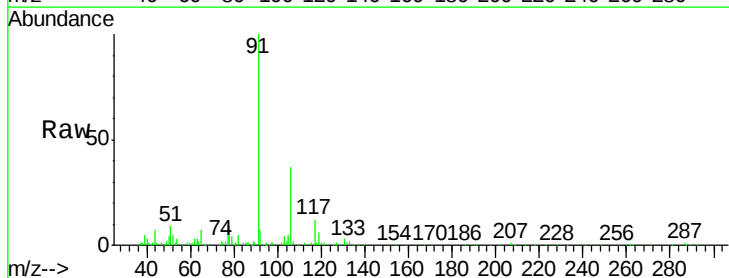
Acq: 16 Sep 2015 20:06

Tgt Ion: 91 Resp: 106609

Ion Ratio Lower Upper

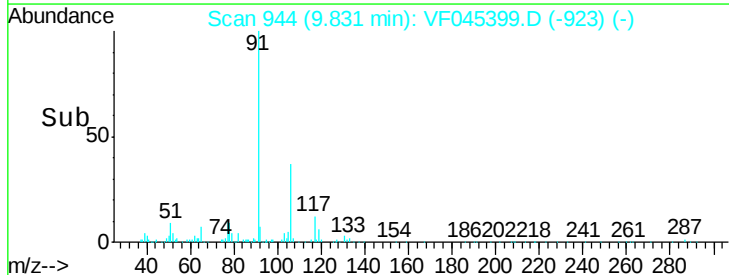
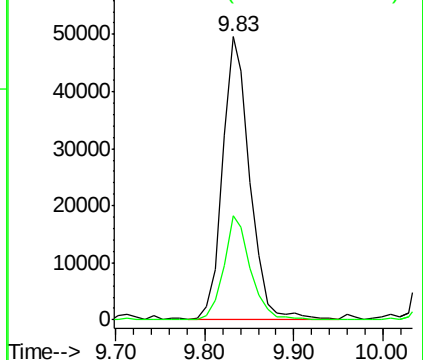
91 100

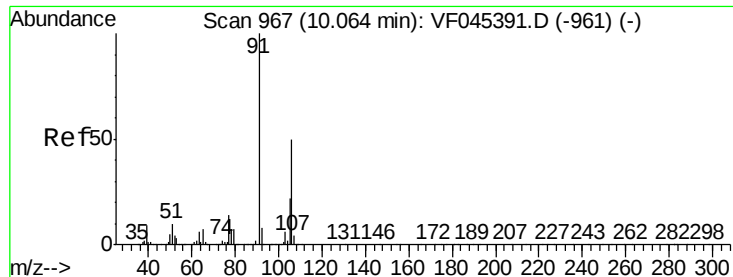
106 37.0 23.6 35.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

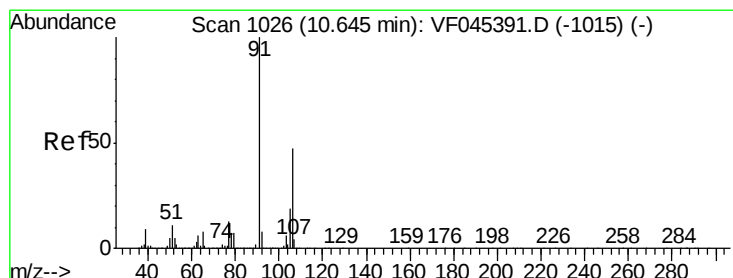
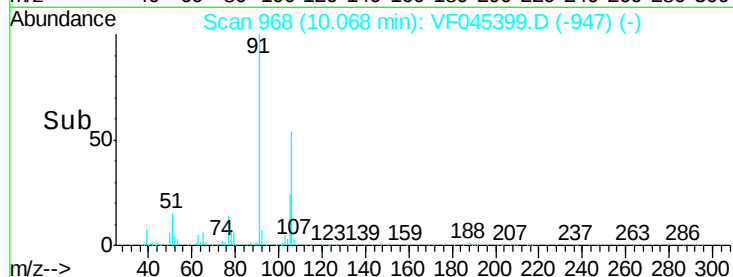
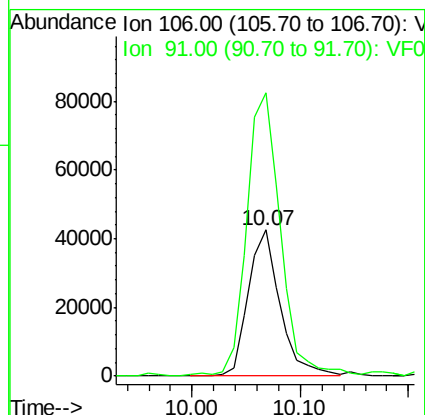
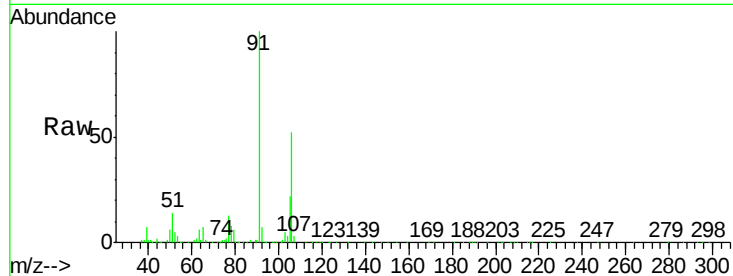




#67
m/p-Xylenes
Concen: 4.71 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

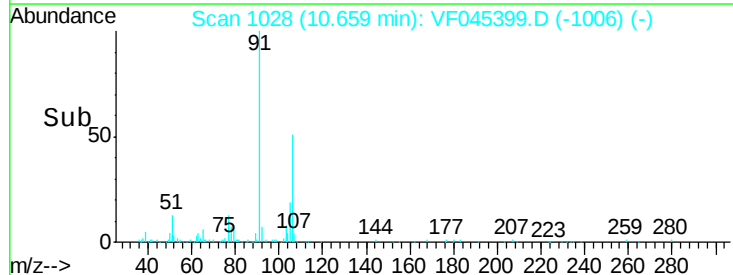
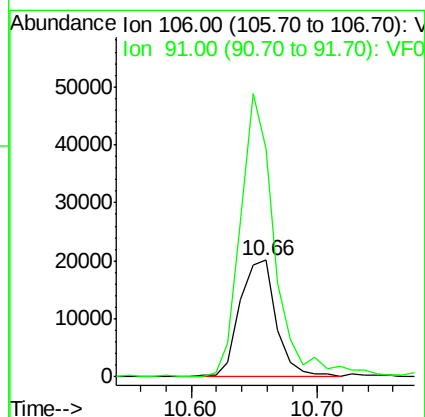
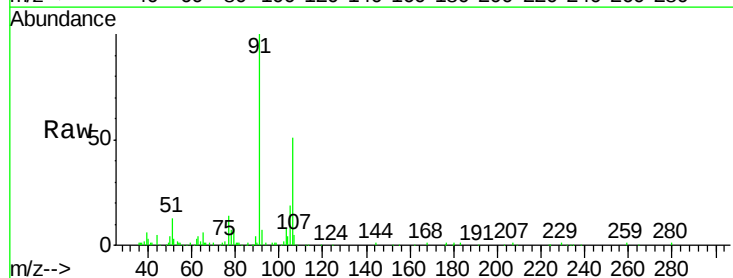
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

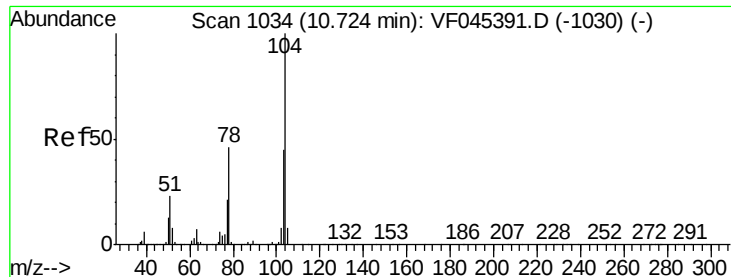
Tgt Ion:106 Resp: 87377
Ion Ratio Lower Upper
106 100
91 193.4 166.1 249.1



#68
o-Xylene
Concen: 2.10 ug/l
RT: 10.66 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion:106 Resp: 40504
Ion Ratio Lower Upper
106 100
91 196.1 108.1 324.2





#69

Styrene

Concen: 2.02 ug/l

RT: 10.73 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

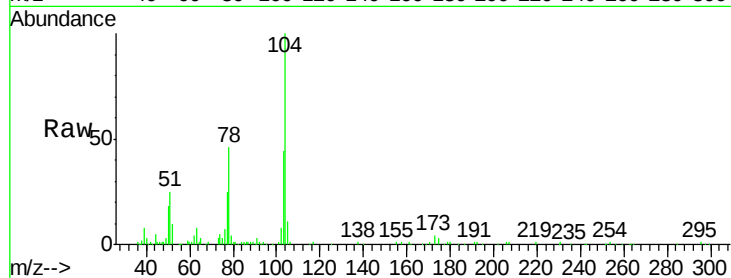
Tgt Ion:104 Resp: 62218

Ion Ratio Lower Upper

104 100

78 45.7 34.2 51.4

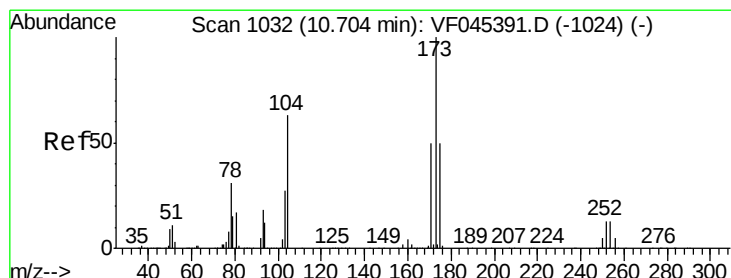
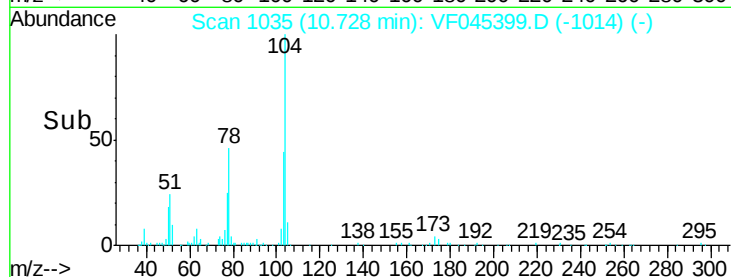
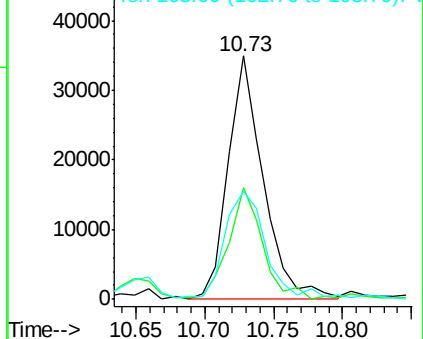
103 44.3 36.7 55.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#70

Bromoform

Concen: 1.84 ug/l

RT: 10.71 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

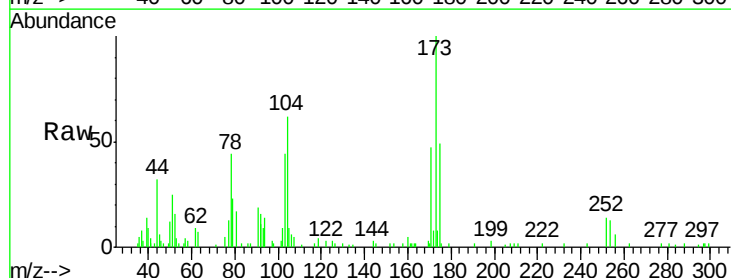
Tgt Ion:173 Resp: 14871

Ion Ratio Lower Upper

173 100

175 51.5 25.7 77.0

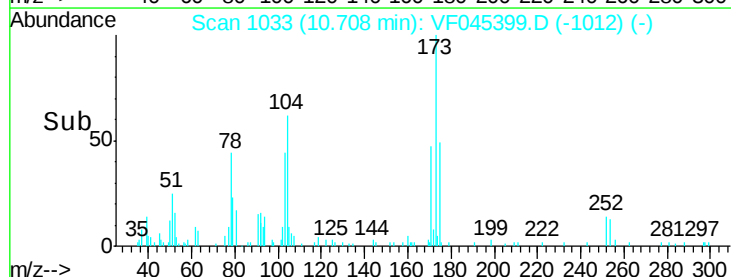
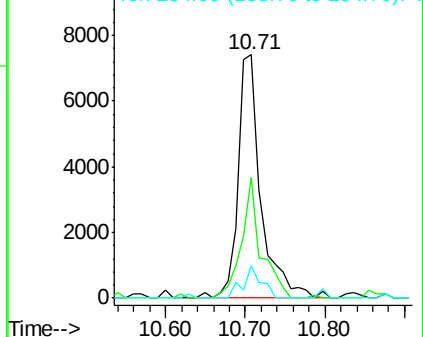
254 13.4 9.8 14.6

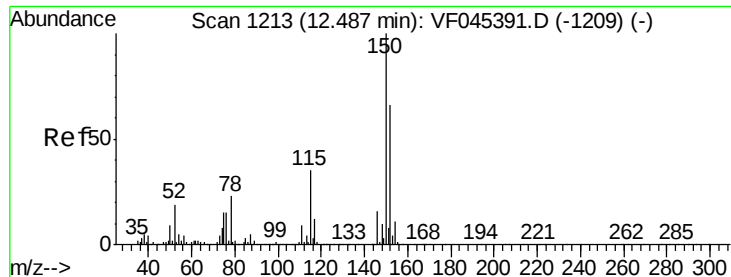


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#71

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.49 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

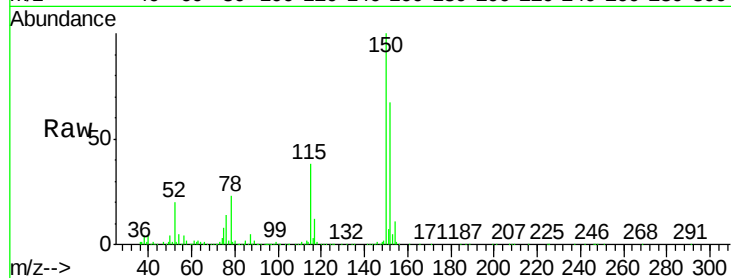
Tgt Ion:152 Resp: 756840

Ion Ratio Lower Upper

152 100

115 57.2 28.3 85.0

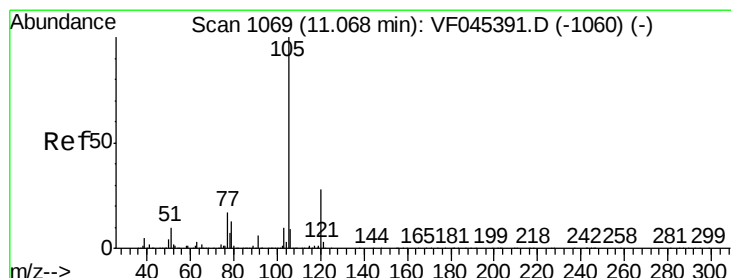
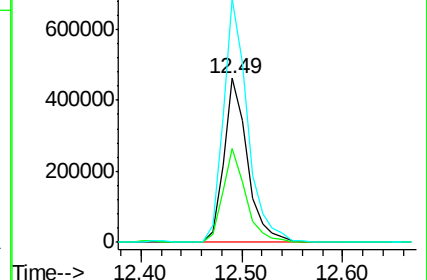
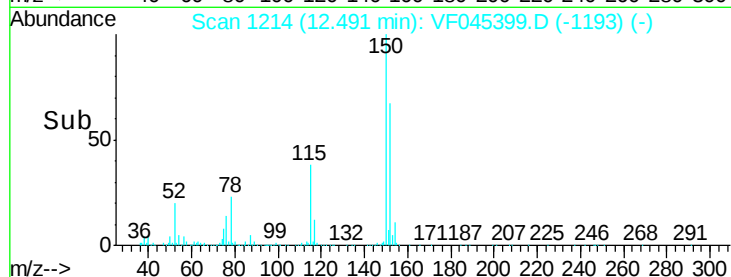
150 148.7 0.0 324.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#72

Isopropylbenzene

Concen: 2.25 ug/l

RT: 11.07 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VF045399.D

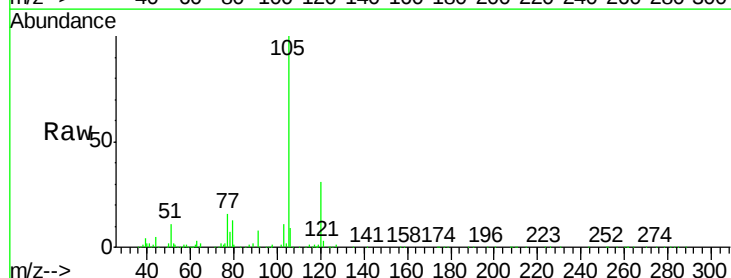
Acq: 16 Sep 2015 20:06

Tgt Ion:105 Resp: 113929

Ion Ratio Lower Upper

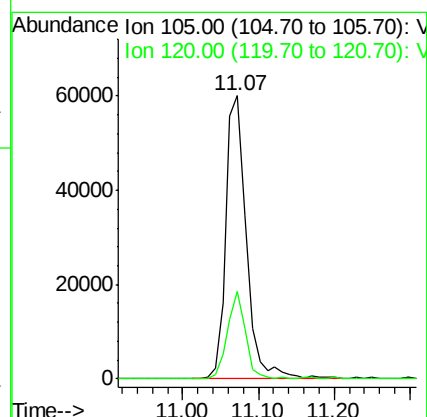
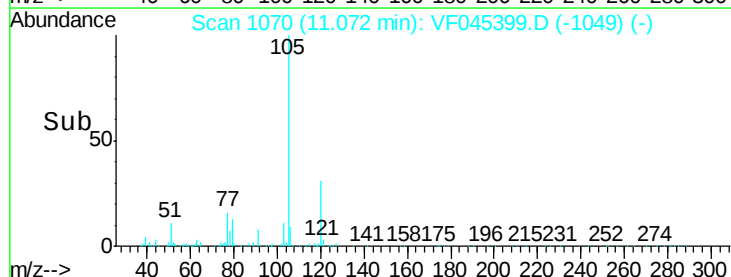
105 100

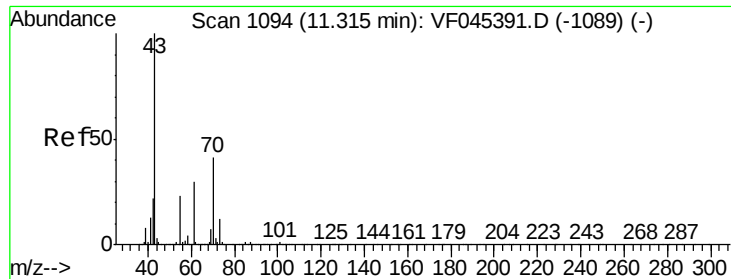
120 30.8 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

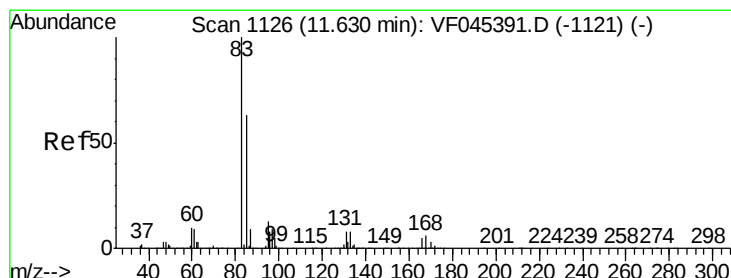
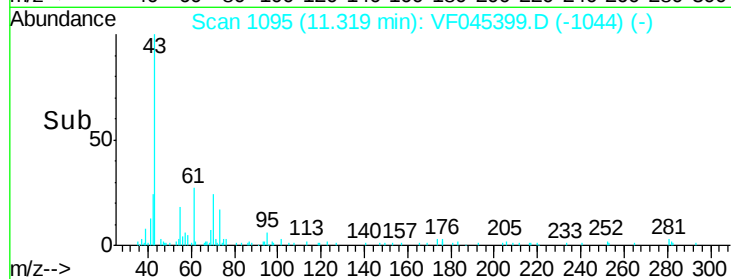
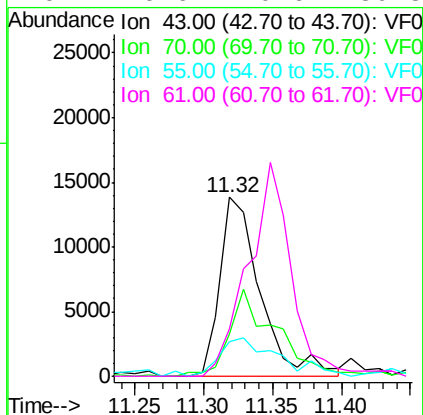
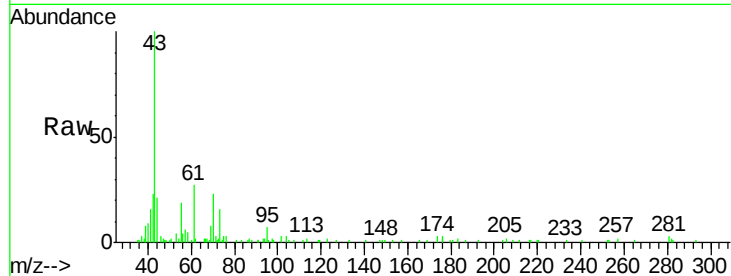




#73
N-amyI acetate
Concen: 2.01 ug/l
RT: 11.32 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

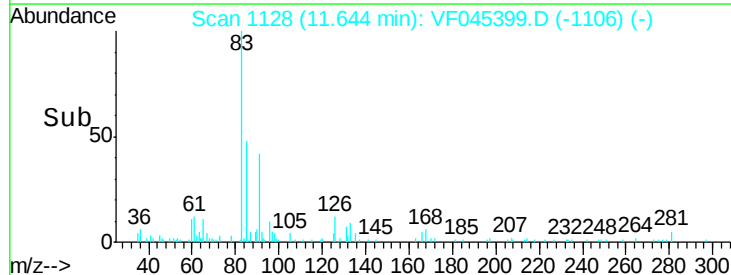
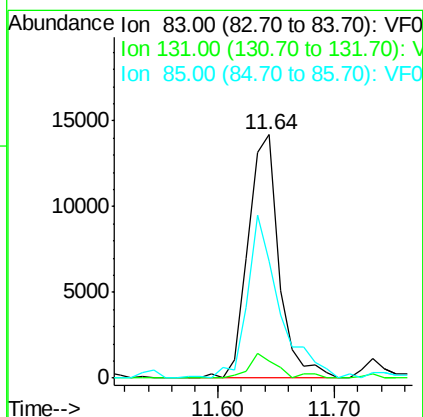
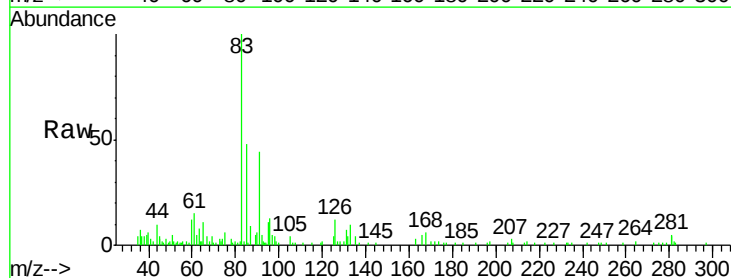
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

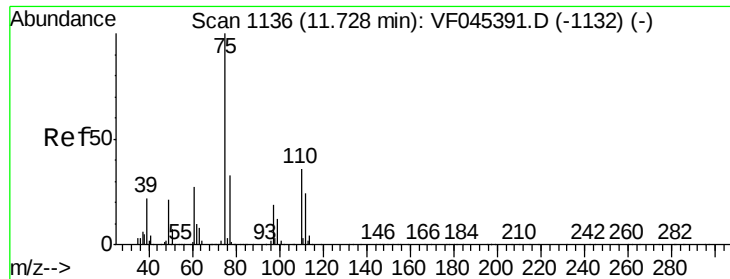
Tgt Ion:	43	Resp:	28182
Ion	Ratio	Lower	Upper
43	100		
70	23.5	30.0	45.0#
55	19.3	16.8	25.2
61	26.6	20.6	30.8



#74
1,1,2,2-Tetrachloroethane
Concen: 2.27 ug/l
RT: 11.64 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion:	83	Resp:	26132
Ion	Ratio	Lower	Upper
83	100		
131	6.8	4.2	12.6
85	48.1	32.5	97.5

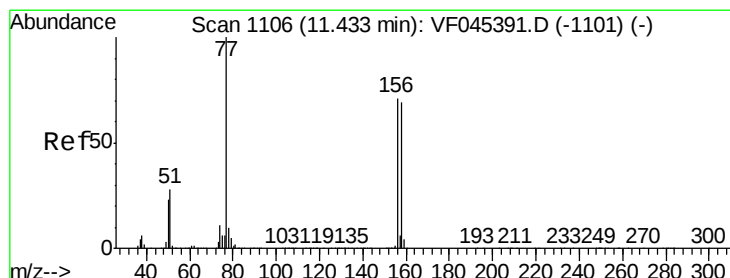
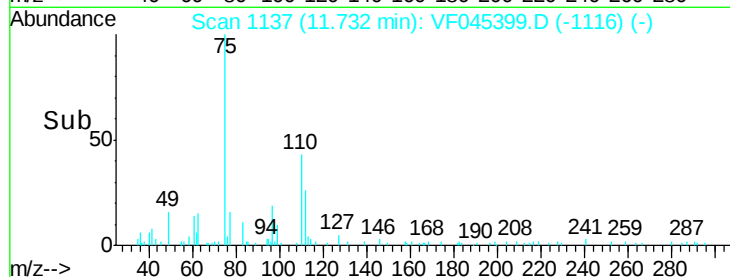
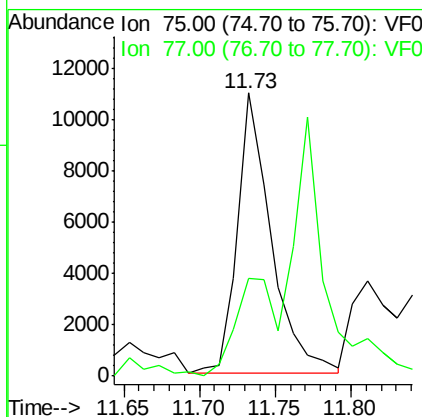
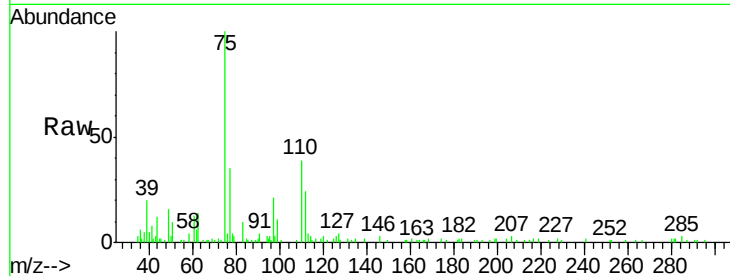




#75
1,2,3-Trichloropropane
Concen: 2.15 ug/l
RT: 11.73 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

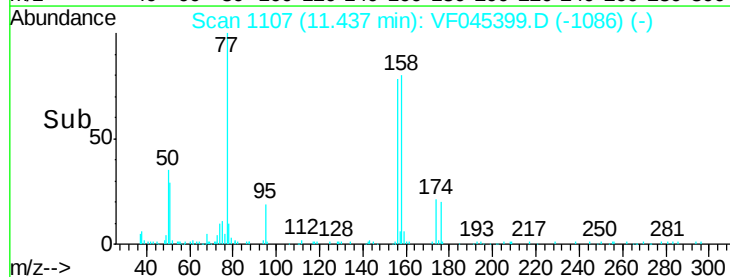
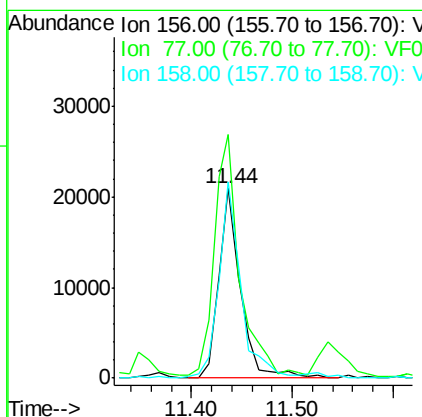
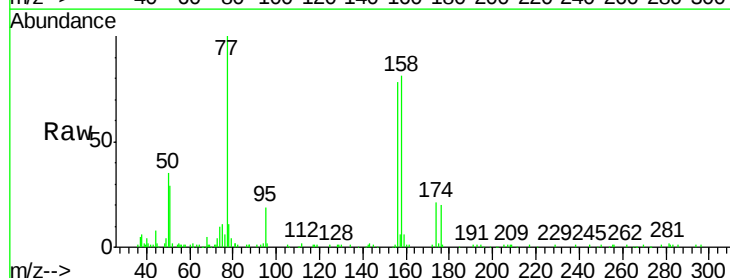
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

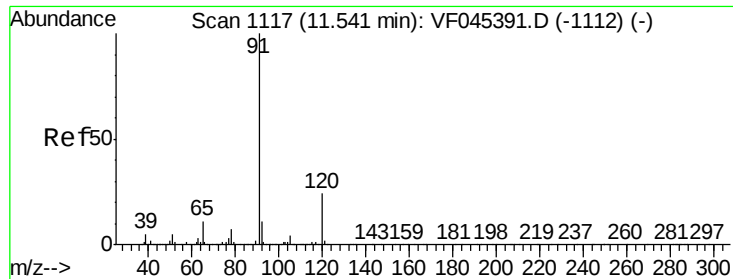
Tgt Ion: 75 Resp: 16993
Ion Ratio Lower Upper
75 100
77 34.6 15.0 45.1



#76
Bromobenzene
Concen: 2.19 ug/l
RT: 11.44 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 156 Resp: 31444
Ion Ratio Lower Upper
156 100
77 128.6 74.8 224.3
158 103.6 49.5 148.7





#77

n-propylbenzene

Concen: 2.57 ug/l

RT: 11.55 min Scan# 1118

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

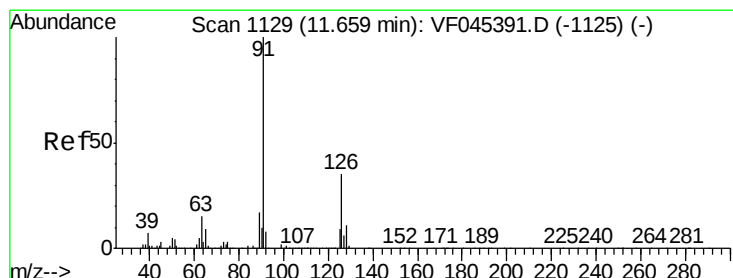
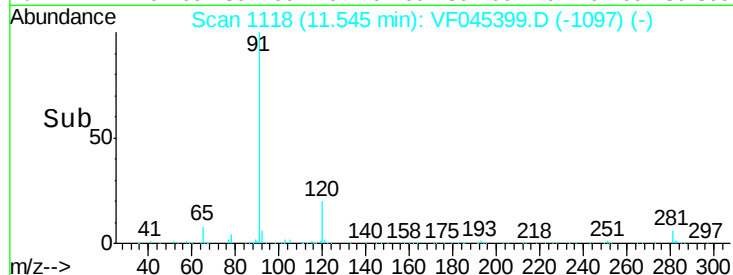
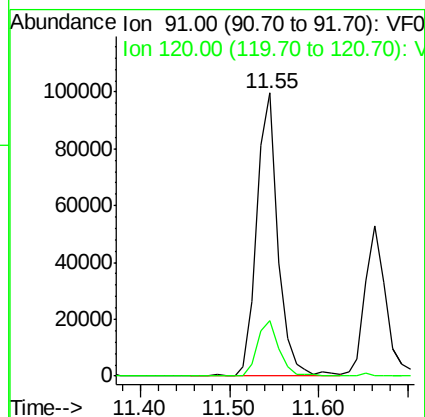
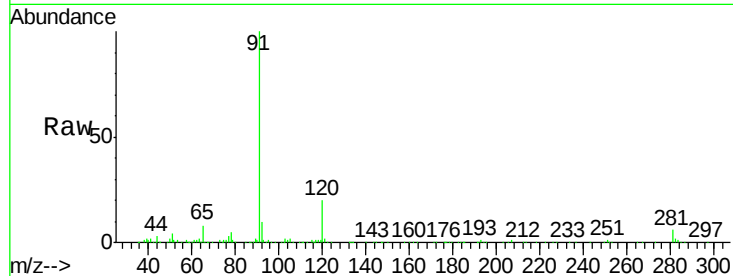
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 161825

Ion Ratio Lower Upper

91 100

120 19.7 11.6 34.7



#78

2-Chlorotoluene

Concen: 2.39 ug/l

RT: 11.66 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VF045399.D

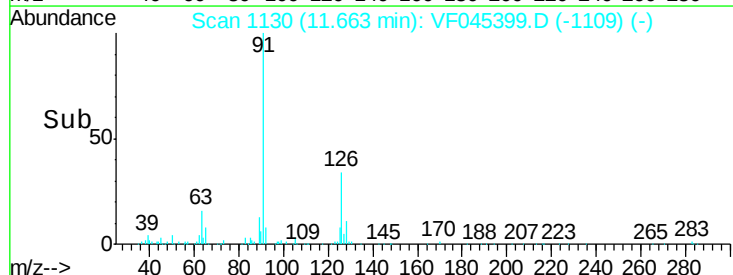
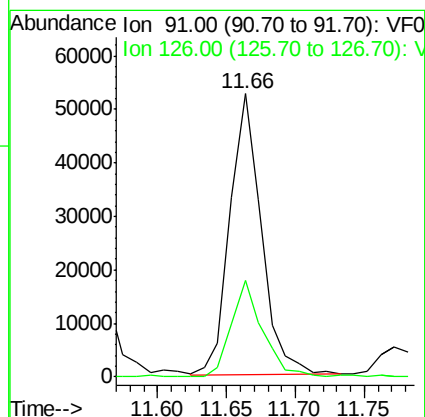
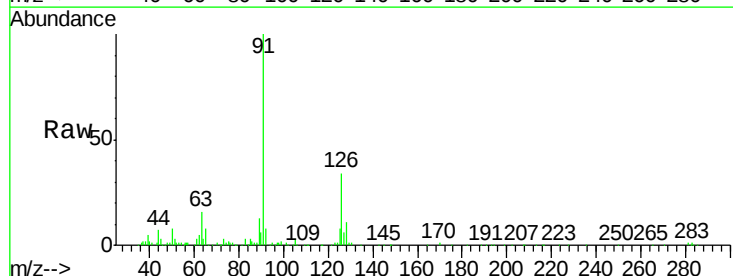
Acq: 16 Sep 2015 20:06

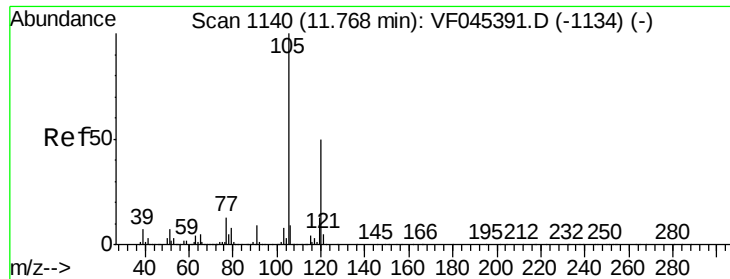
Tgt Ion: 91 Resp: 84066

Ion Ratio Lower Upper

91 100

126 34.0 16.9 50.7

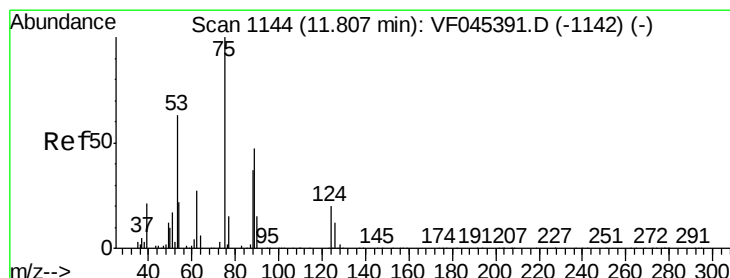
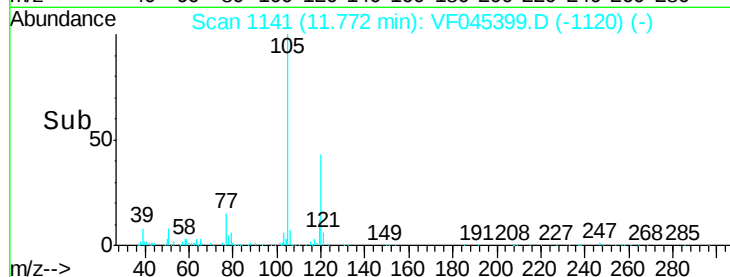
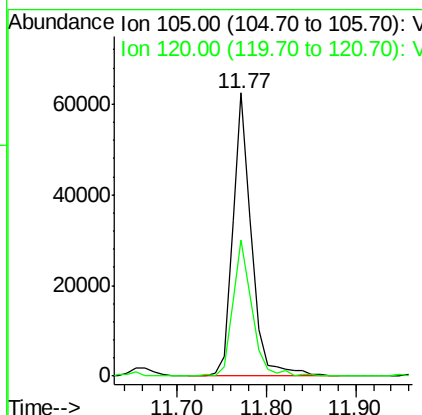
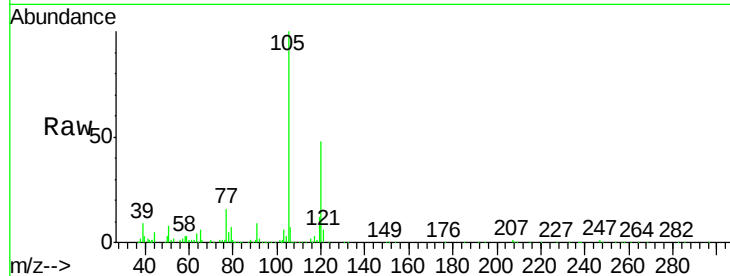




#79
 1,3,5-Trimethylbenzene
 Concen: 2.24 ug/l
 RT: 11.77 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

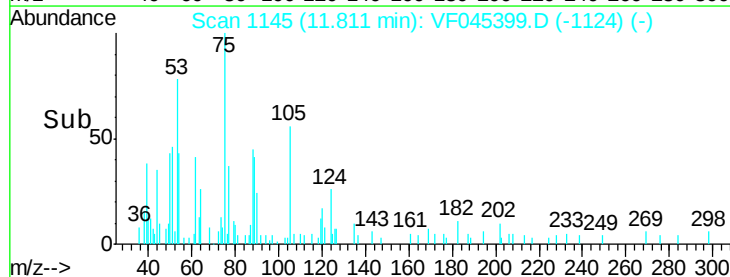
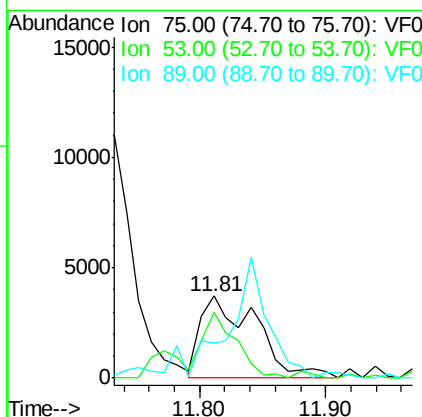
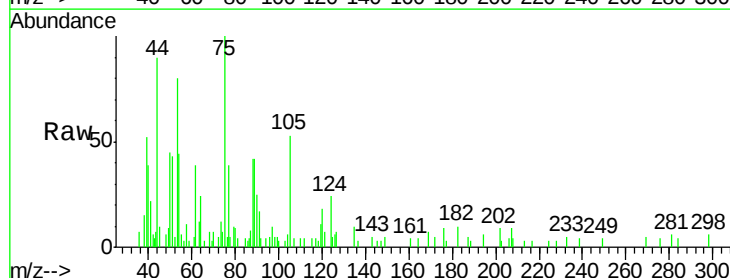
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 ClientSampleId :
 LOD-SOIL2015-01

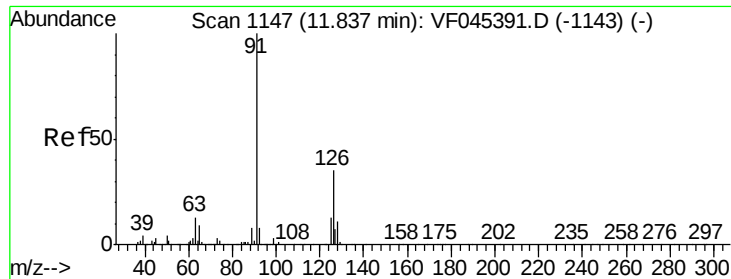
Tgt Ion: 105 Resp: 92572
 Ion Ratio Lower Upper
 105 100
 120 48.0 25.2 75.6



#80
 trans-1,4-Dichloro-2-butene
 Concen: 2.70 ug/l
 RT: 11.81 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion: 75 Resp: 11416
 Ion Ratio Lower Upper
 75 100
 53 79.7 51.0 76.6#
 89 41.8 38.6 57.8

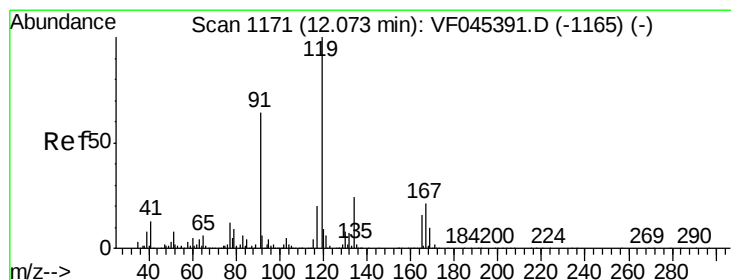
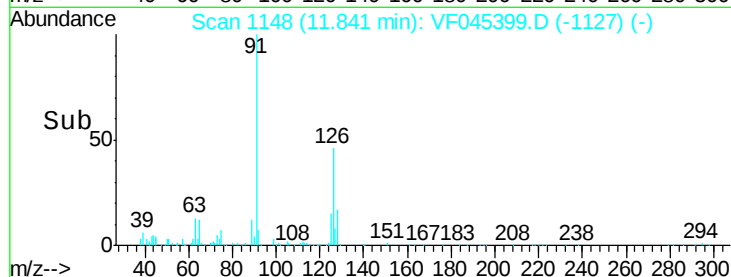
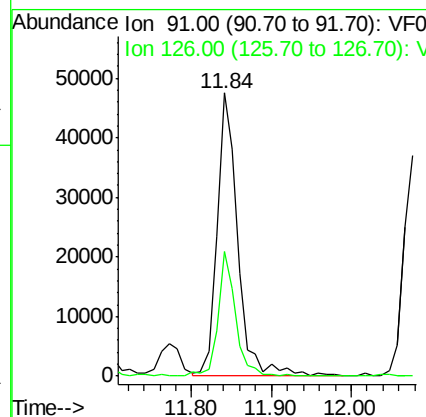
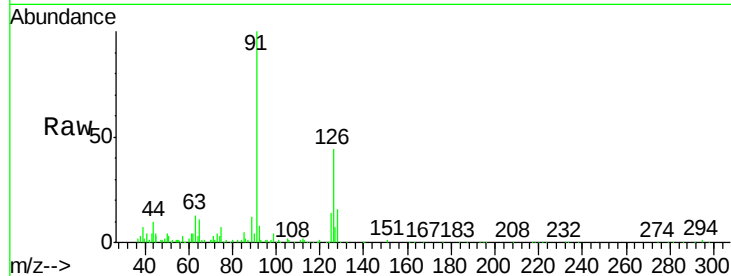




#81
4-Chlorotoluene
Concen: 2.23 ug/l
RT: 11.84 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

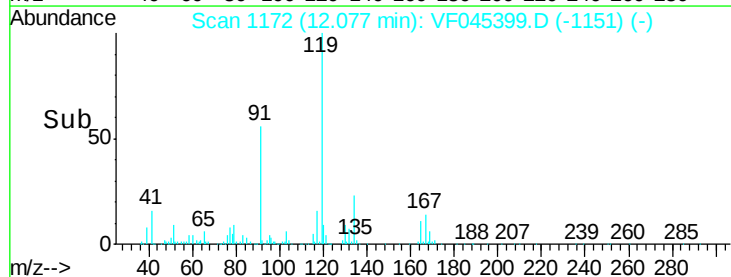
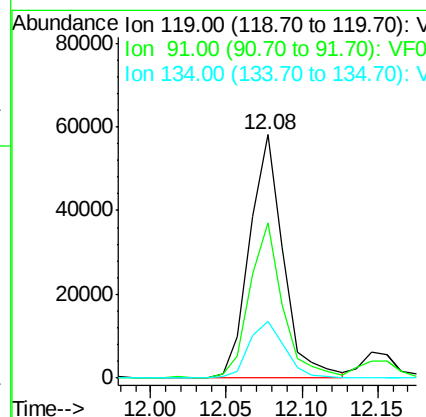
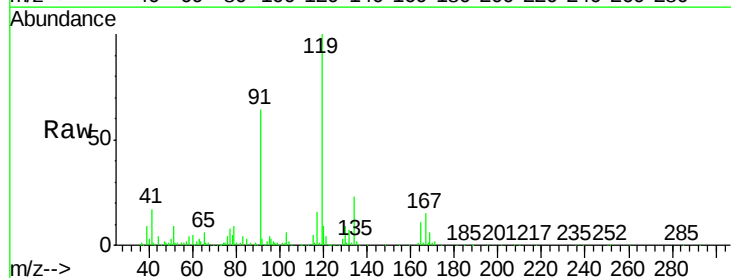
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

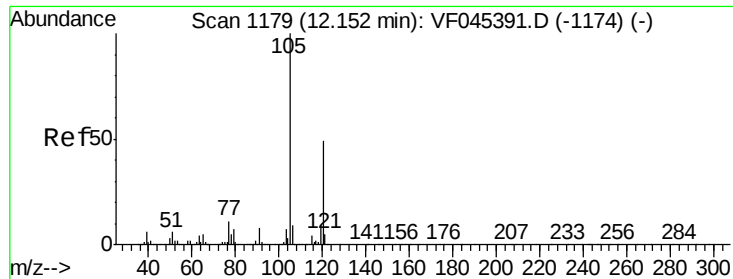
Tgt Ion: 91 Resp: 86805
Ion Ratio Lower Upper
91 100
126 44.1 15.8 47.4



#82
tert-Butylbenzene
Concen: 2.21 ug/l
RT: 12.08 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 119 Resp: 90416
Ion Ratio Lower Upper
119 100
91 63.6 31.1 93.2
134 23.2 12.2 36.6

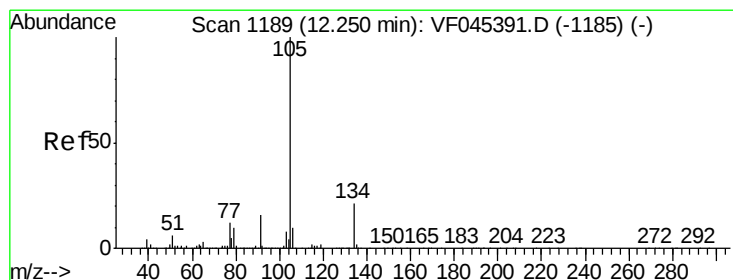
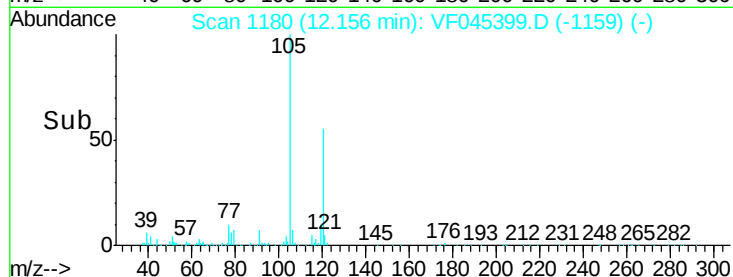
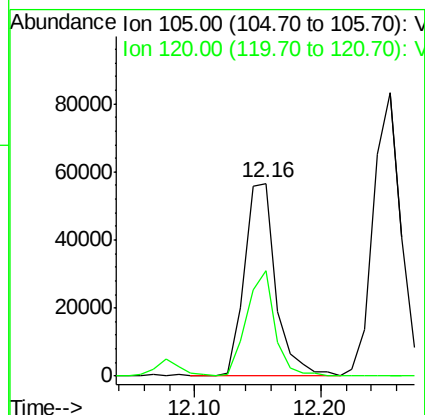
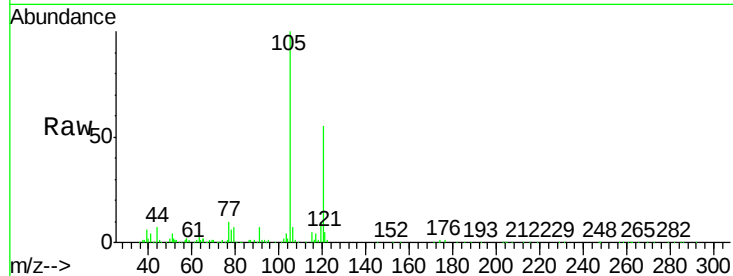




#83
 1,2,4-Trimethylbenzene
 Concen: 2.31 ug/l
 RT: 12.16 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

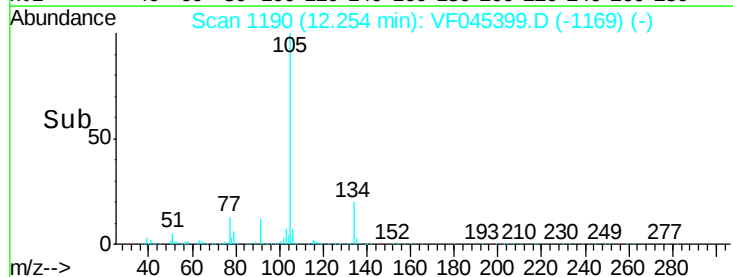
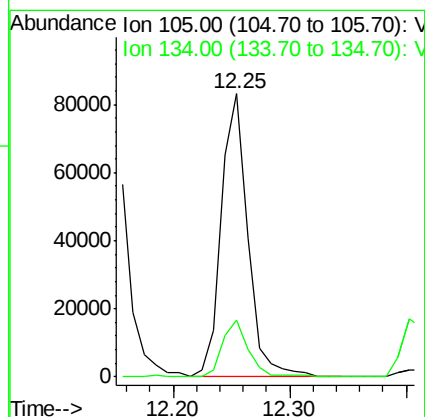
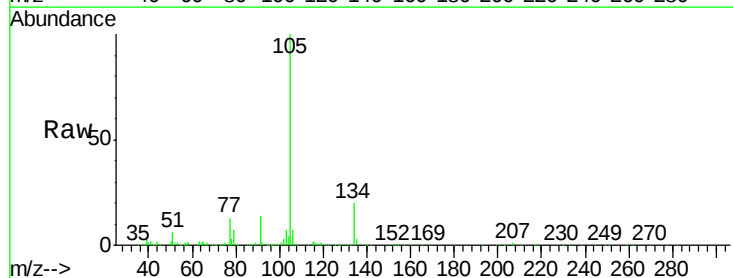
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

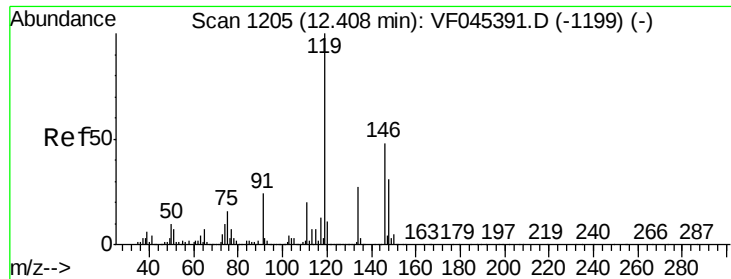
Tgt Ion:105 Resp: 98034
 Ion Ratio Lower Upper
 105 100
 120 54.6 22.9 68.7



#84
 sec-Butylbenzene
 Concen: 2.32 ug/l
 RT: 12.25 min Scan# 1190
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion:105 Resp: 131580
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.5 31.6

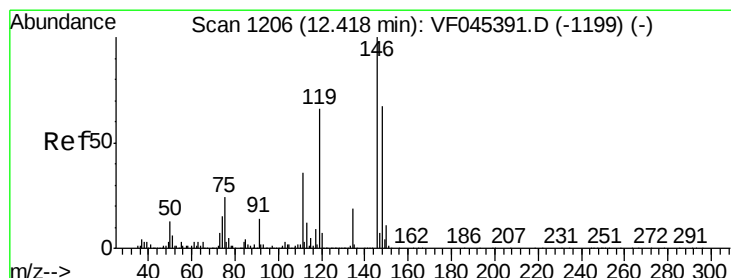
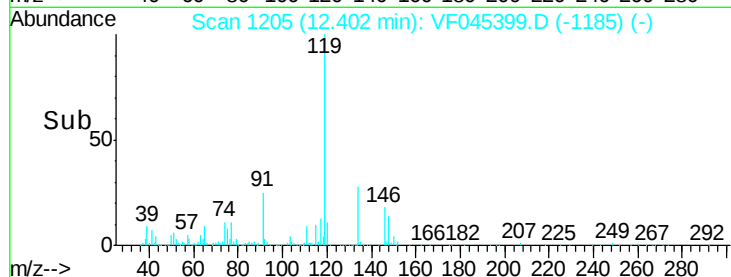
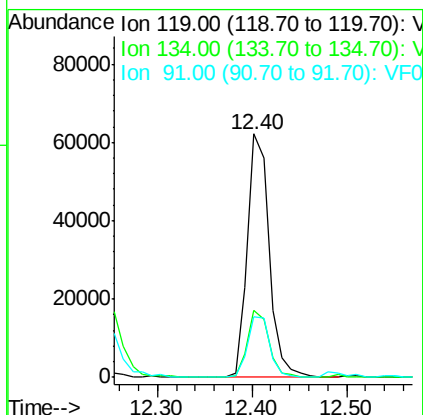
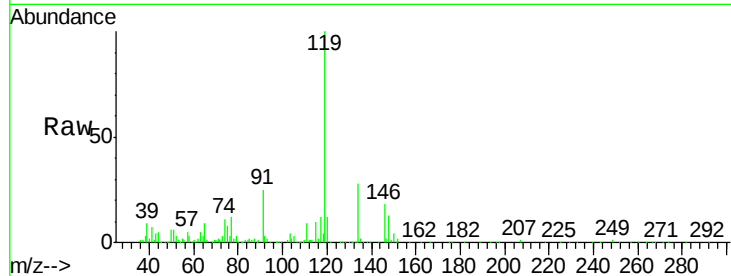




#85
p-Isopropyltoluene
Concen: 2.26 ug/l
RT: 12.40 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

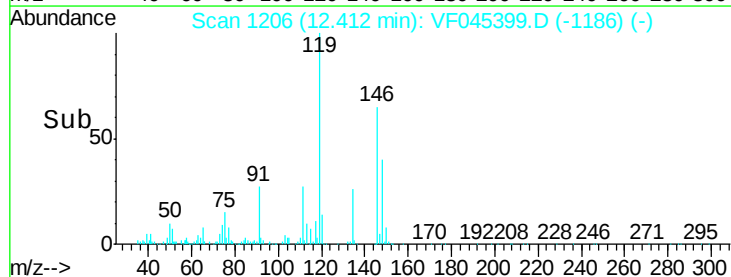
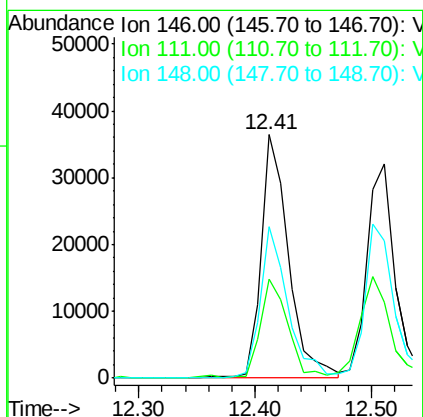
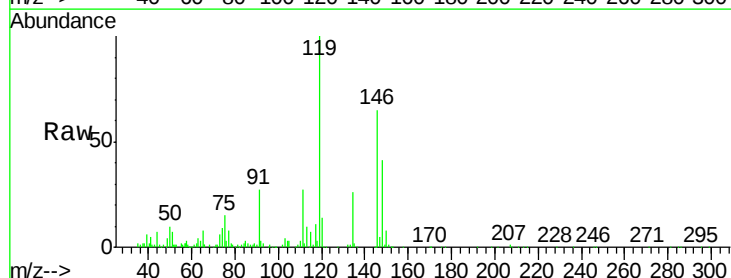
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

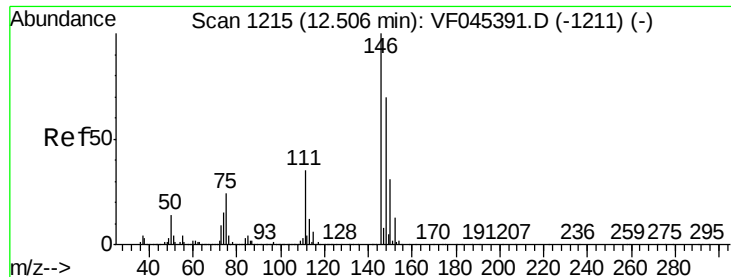
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.6	13.0	38.9
91	24.7	12.2	36.6



#86
1,3-Dichlorobenzene
Concen: 2.43 ug/l
RT: 12.41 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.9	59.7
148	62.2	32.5	97.4

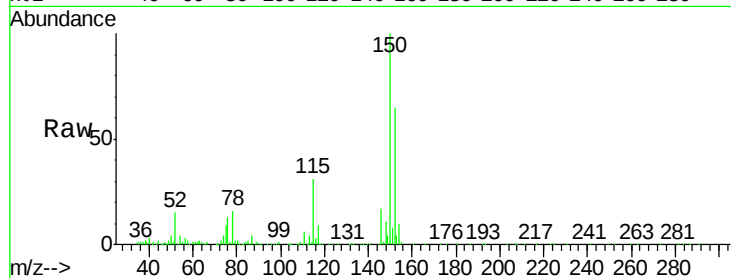




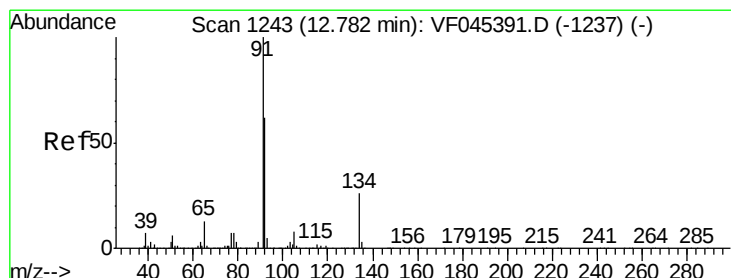
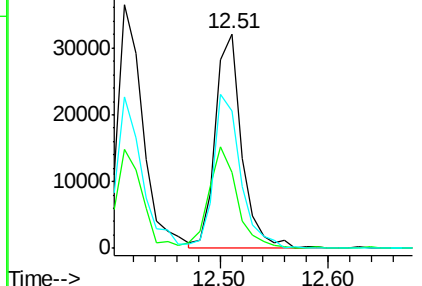
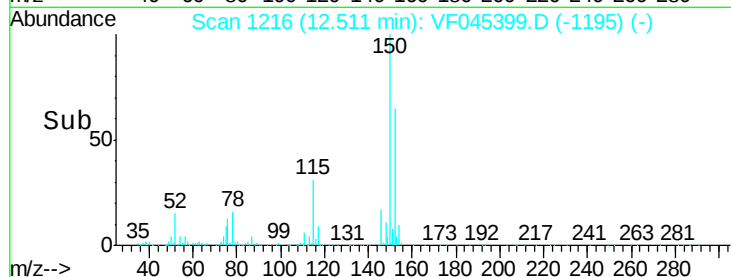
#87
 1,4-Dichlorobenzene
 Concen: 2.24 ug/l
 RT: 12.51 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion: 146 Resp: 54722
 Ion Ratio Lower Upper
 146 100
 111 35.7 17.3 52.0
 148 64.0 32.4 97.0

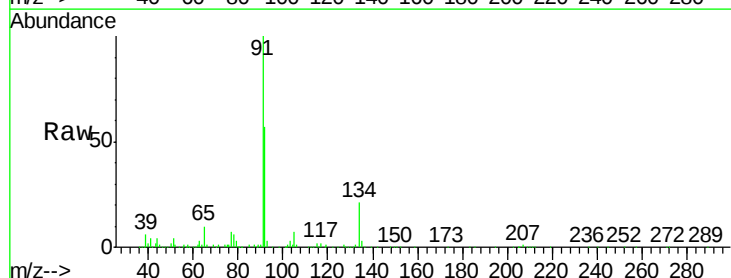


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

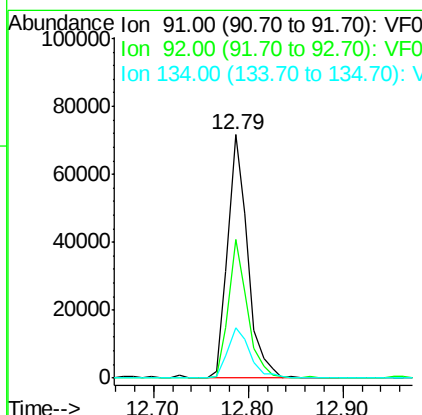
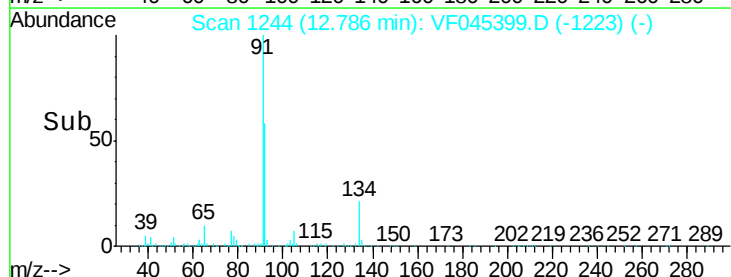


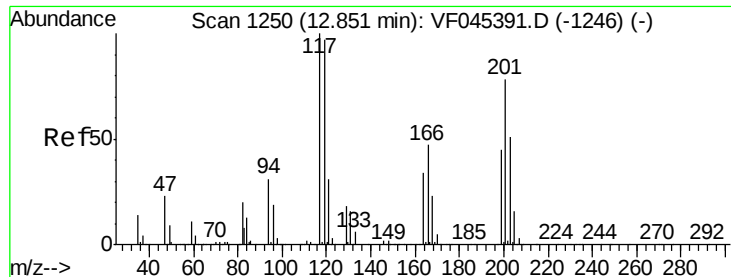
#88
 n-Butylbenzene
 Concen: 2.36 ug/l
 RT: 12.79 min Scan# 1244
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion: 91 Resp: 105074
 Ion Ratio Lower Upper
 91 100
 92 57.2 30.1 90.5
 134 20.9 13.8 41.4



Abundance Ion 91.00 (90.70 to 91.70): VF0
 Ion 92.00 (91.70 to 92.70): VF0
 Ion 134.00 (133.70 to 134.70): V





#89

Hexachloroethane

Concen: 1.67 ug/l

RT: 12.86 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

Instrument :

MSVOA_F

ClientSampleId :

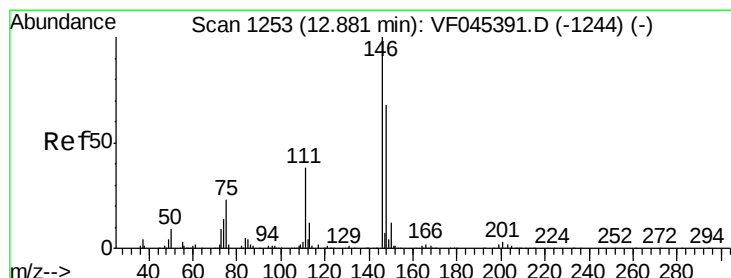
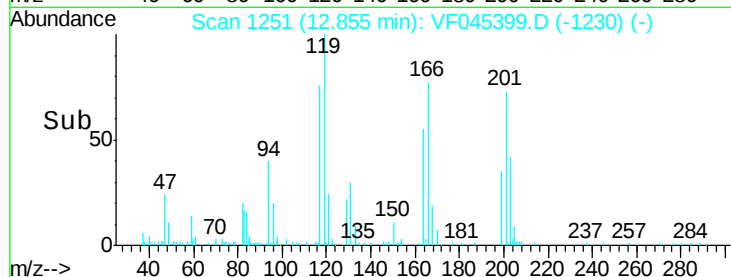
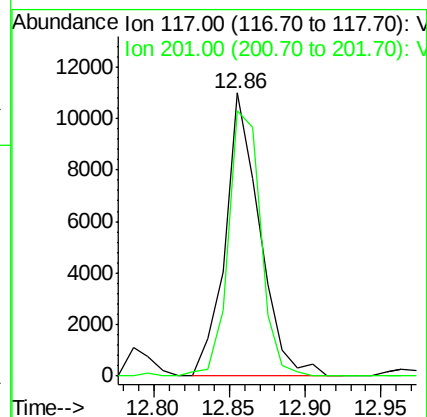
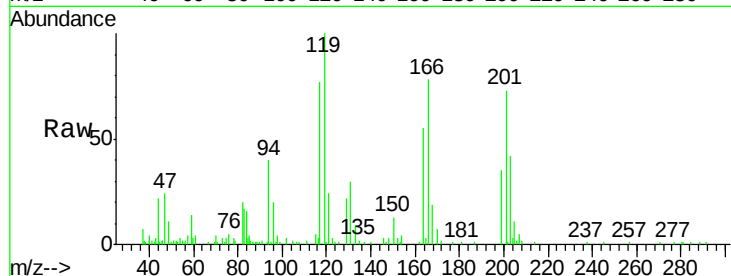
LOD-SOIL2015-01

Tgt Ion:117 Resp: 17452

Ion Ratio Lower Upper

117 100

201 93.8 42.0 126.1



#90

1,2-Dichlorobenzene

Concen: 2.19 ug/l

RT: 12.88 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VF045399.D

Acq: 16 Sep 2015 20:06

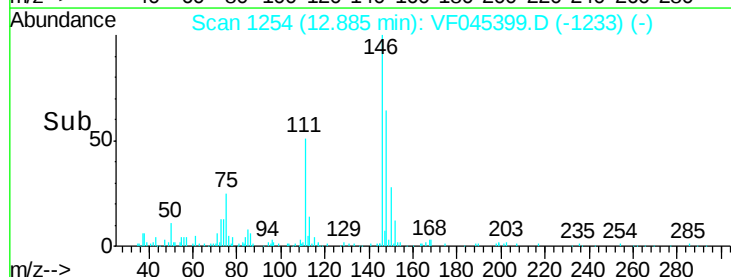
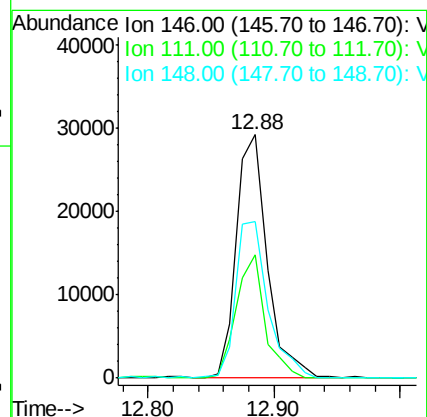
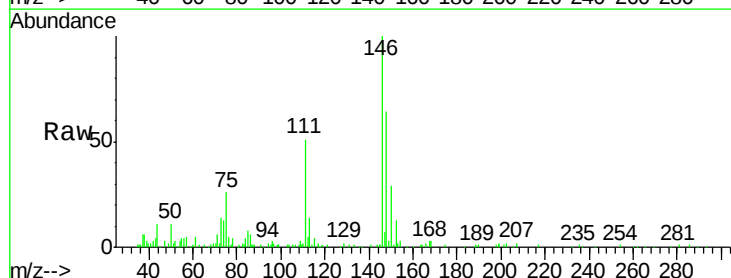
Tgt Ion:146 Resp: 49338

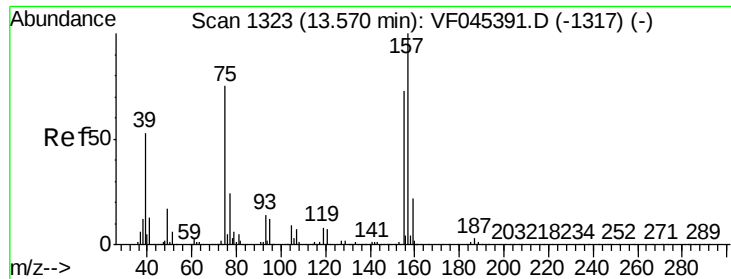
Ion Ratio Lower Upper

146 100

111 50.5 21.4 64.3

148 64.2 31.4 94.3

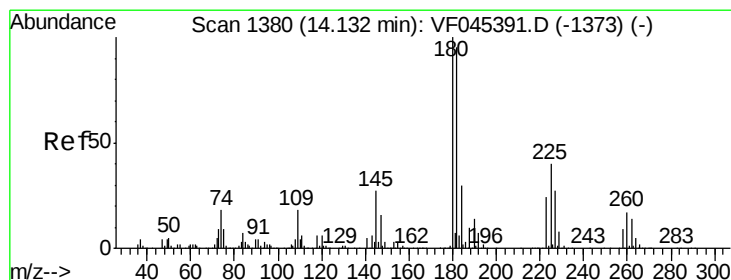
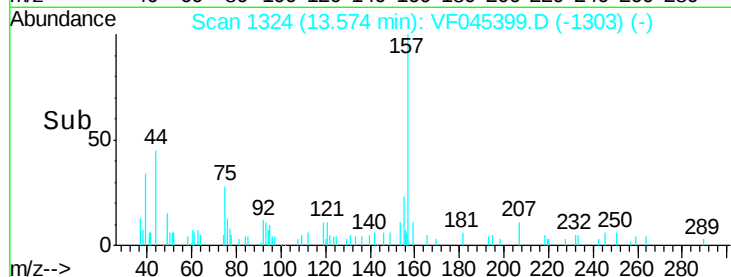
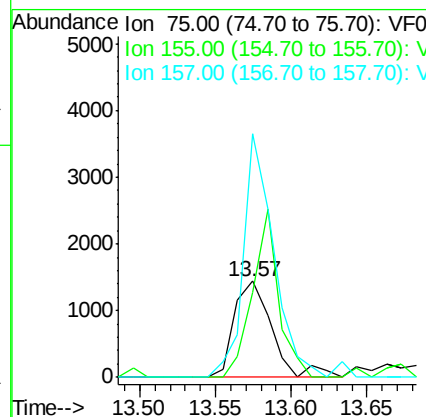
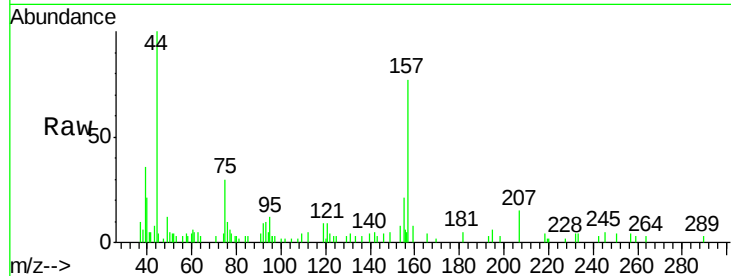




#91
 1,2-Dibromo-3-Chloropropane
 Concen: 1.63 ug/l
 RT: 13.57 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

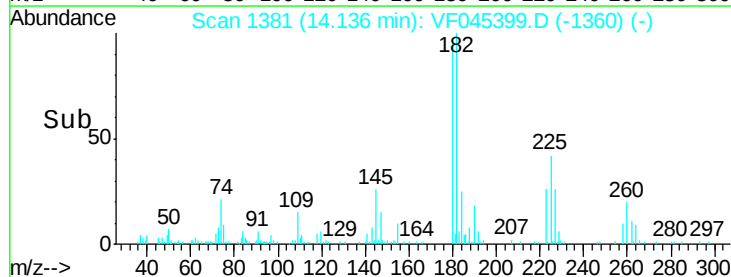
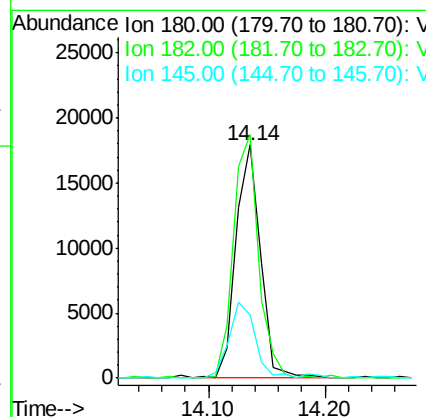
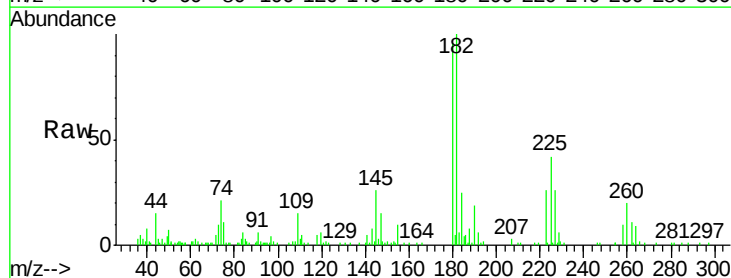
Instrument :
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 ClientSampleId :
 LOD-SOIL2015-01

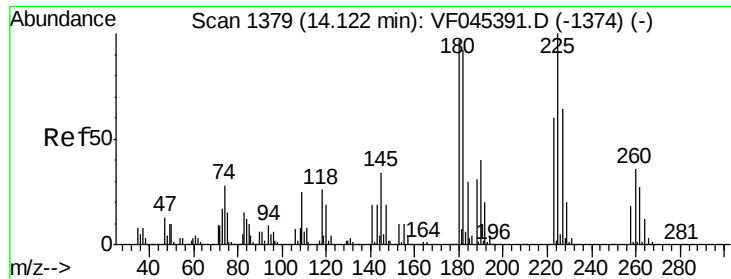
Tgt Ion: 75 Resp: 2480
 Ion Ratio Lower Upper
 75 100
 155 88.8 49.2 147.6
 157 254.0 66.8 200.4#



#92
 1,2,4-Trichlorobenzene
 Concen: 2.01 ug/l
 RT: 14.14 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Tgt Ion: 180 Resp: 26103
 Ion Ratio Lower Upper
 180 100
 182 104.5 49.4 148.0
 145 27.2 16.7 50.1

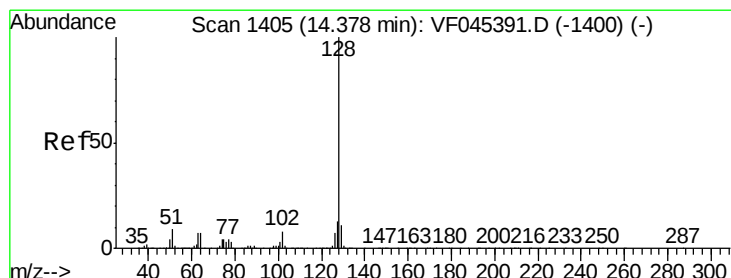
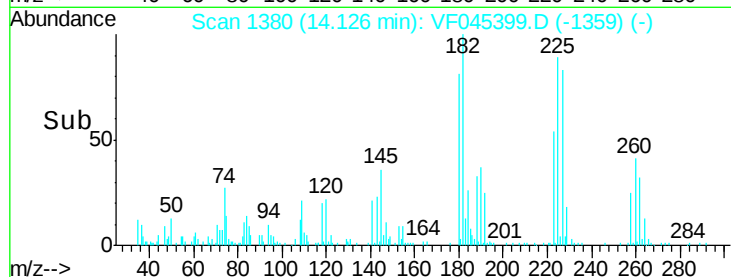
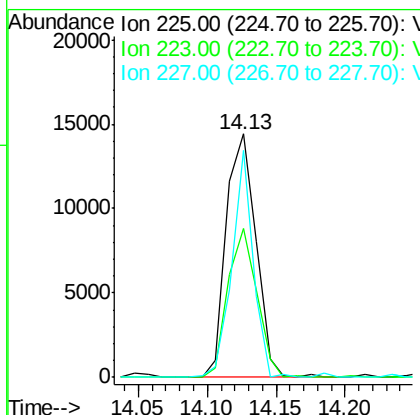
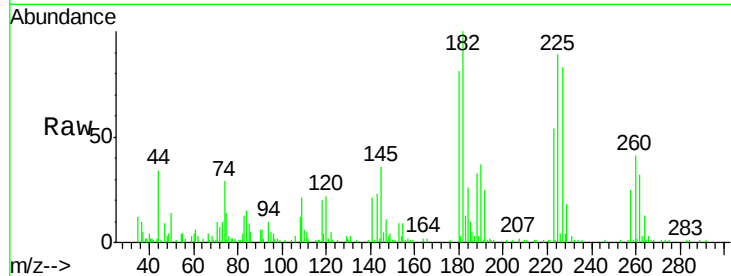




#93
Hexachlorobutadiene
Concen: 2.18 ug/l
RT: 14.13 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

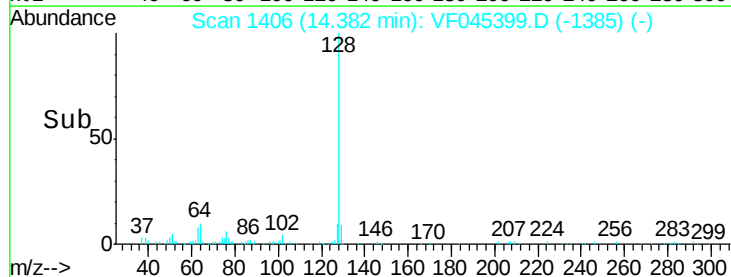
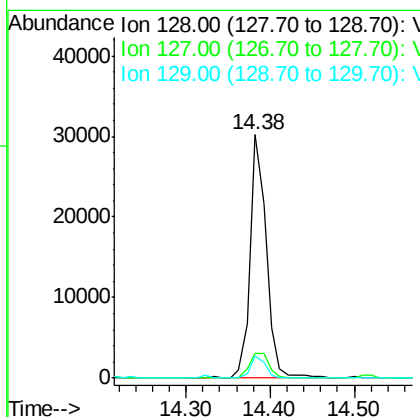
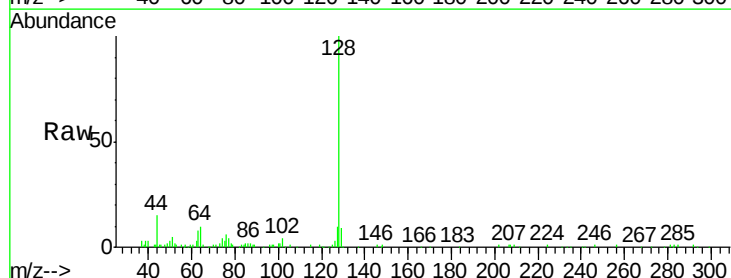
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MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

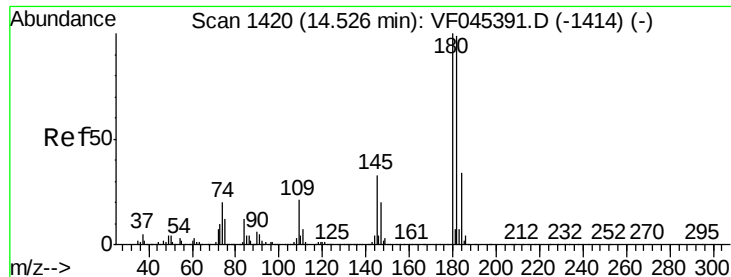
Tgt Ion: 225 Resp: 21574
Ion Ratio Lower Upper
225 100
223 62.9 31.9 95.5
227 93.3 32.9 98.7



#94
Naphthalene
Concen: 3.28 ug/l
RT: 14.38 min Scan# 1406
Delta R.T. 0.01 min
Lab File: VF045399.D
Acq: 16 Sep 2015 20:06

Tgt Ion: 128 Resp: 40746
Ion Ratio Lower Upper
128 100
127 10.1 9.8 14.8
129 9.3 8.8 13.2





#95
 1,2,3-Trichlorobenzene
 Concen: 1.89 ug/l
 RT: 14.53 min Scan# 1421
 Delta R.T. 0.00 min
 Lab File: VF045399.D
 Acq: 16 Sep 2015 20:06

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	115.0	47.6	142.8
145	34.3	14.5	43.6

