

Data Path : W:\HPCHEM1\MSVOA_F\DATA\VF091615\
 Data File : VF045401.D
 Acq On : 16 Sep 2015 21:04
 Operator : FY/SY
 Sample : G3707-03LOD 4ppb
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 17 07:18:06 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	1114277	50.00	ug/l	0.00
33) 1,4-Difluorobenzene	5.54	114	1588484	50.00	ug/l	0.00
62) Chlorobenzene-d5	9.71	117	1525949	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	12.50	152	840836	50.00	ug/l	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.77	65	573370	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
34) Dibromofluoromethane	4.04	113	610692	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
49) Toluene-d8	7.49	98	1744591	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
61) 4-Bromofluorobenzene	11.35	95	825452	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	0.93	85	39996	4.21	ug/l	94
3) Chloromethane	1.02	50	38481	4.74	ug/l	99
4) Vinyl Chloride	1.08	62	28768	4.13	ug/l	97
5) Bromomethane	1.25	94	20626	4.77	ug/l	83
6) Chloroethane	1.33	64	12134	4.37	ug/l #	77
7) Trichlorofluoromethane	1.39	101	24621	1.72	ug/l	95
8) Diethyl Ether	1.59	74	12373	4.14	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.77	101	33746	4.10	ug/l #	76
10) Methyl Iodide	1.81	142	65135	3.87	ug/l	96
11) Tert butyl alcohol	2.53	59	2895	21.53	ug/l #	5
12) 1,1-Dichloroethene	1.71	96	25906	3.79	ug/l	94
13) Acrolein	2.04	56	1103	1.98	ug/l	97
14) Allyl chloride	2.05	41	39362	3.71	ug/l	90
15) Acrylonitrile	2.88	53	25606	19.93	ug/l	93
16) Acetone	2.19	43	51535	18.97	ug/l	98
17) Carbon Disulfide	1.73	76	82702	3.55	ug/l	97
18) Methyl Acetate	2.29	43	48410	4.65	ug/l	96
19) Methyl tert-butyl Ether	2.39	73	21228	3.95	ug/l #	87
21) trans-1,2-Dichloroethene	2.26	96	29564	3.86	ug/l	94
22) Diisopropyl ether	2.74	45	81223	3.60	ug/l	96
23) Vinyl Acetate	3.13	43	123534	18.73	ug/l #	95
24) 1,1-Dichloroethane	2.81	63	62098	4.06	ug/l	98
25) 2-Butanone	4.26	43	82877	21.81	ug/l	92
26) 2,2-Dichloropropane	3.53	77	52947	3.72	ug/l	93
27) cis-1,2-Dichloroethene	3.41	96	46798	3.96	ug/l	89
28) Bromochloromethane	3.65	49	25505	4.25	ug/l	99
29) Chloroform	3.79	83	83647	3.89	ug/l	97
30) Cyclohexane	3.63	56	51851	3.76	ug/l	97
31) 1,1,1-Trichloroethane	4.04	97	70231	3.94	ug/l	96
35) 1,1-Dichloropropene	4.22	75	63831	4.24	ug/l	96
36) Ethyl Acetate	3.94	43	9819	1.29	ug/l	96
37) Carbon Tetrachloride	3.93	117	56400	3.55	ug/l	93
38) Methylcyclohexane	5.40	83	71057	4.39	ug/l #	77
39) Benzene	4.57	78	155025	4.40	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methacrylonitrile	4.68	41	12215	3.38	ug/l #	85
41) 1,2-Dichloroethane	4.87	62	53576	3.77	ug/l	88
42) Isopropyl Acetate	6.91	43	40106	3.99	ug/l #	90
43) Trichloroethene	5.44	130	50073	4.16	ug/l	95
44) 1,2-Dichloropropane	6.17	63	42395	4.13	ug/l	93
45) Dibromomethane	6.02	93	27924	3.82	ug/l #	86
46) Bromodichloromethane	6.32	83	65529	4.01	ug/l #	90
47) Methyl methacrylate	6.67	41	25688	4.21	ug/l #	86
48) 1,4-Dioxane	6.66	88	3449	47.22	ug/l #	60
50) 4-Methyl-2-Pentanone	8.20	43	158407	22.17	ug/l	93
51) Toluene	7.57	92	117903	4.34	ug/l	96
52) t-1,3-Dichloropropene	8.21	75	66672	4.54	ug/l	97
53) cis-1,3-Dichloropropene	7.24	75	70682	4.07	ug/l	93
54) 1,1,2-Trichloroethane	8.43	97	39608	4.31	ug/l	96
55) Ethyl methacrylate	8.57	69	42733	3.58	ug/l	93
56) 1,3-Dichloropropane	8.78	76	66849	4.46	ug/l	98
58) 2-Hexanone	9.43	43	116739	20.53	ug/l	88
59) Dibromochloromethane	8.65	129	42619	3.27	ug/l	93
60) 1,2-Dibromoethane	8.92	107	44268	4.25	ug/l	100
63) Tetrachloroethene	8.09	164	50684	4.18	ug/l #	80
64) Chlorobenzene	9.73	112	143782	4.49	ug/l	100
65) 1,1,1,2-Tetrachloroethane	9.86	131	47571	4.06	ug/l	92
66) Ethyl Benzene	9.84	91	249627	4.50	ug/l	98
67) m/p-Xylenes	10.06	106	176231	8.86	ug/l	98
68) o-Xylene	10.65	106	91423	4.43	ug/l	96
69) Styrene	10.72	104	143351	4.35	ug/l	91
70) Bromoform	10.70	173	32731	3.77	ug/l #	88
72) Isopropylbenzene	11.07	105	274999	4.88	ug/l	95
73) N-amyl acetate	11.32	43	61150	3.92	ug/l #	88
74) 1,1,2,2-Tetrachloroethane	11.64	83	58266	4.56	ug/l	100
75) 1,2,3-Trichloropropane	11.74	75	37126	4.23	ug/l	99
76) Bromobenzene	11.44	156	74137	4.64	ug/l	79
77) n-propylbenzene	11.54	91	326358	4.67	ug/l	97
78) 2-Chlorotoluene	11.66	91	183621	4.69	ug/l	96
79) 1,3,5-Trimethylbenzene	11.77	105	207951	4.53	ug/l	96
80) trans-1,4-Dichloro-2-buten	11.82	75	25914	5.51	ug/l	97
81) 4-Chlorotoluene	11.85	91	191729	4.43	ug/l	87
82) tert-Butylbenzene	12.07	119	216371	4.77	ug/l	97
83) 1,2,4-Trimethylbenzene	12.15	105	215765	4.58	ug/l	99
84) sec-Butylbenzene	12.25	105	286766	4.54	ug/l	89
85) p-Isopropyltoluene	12.41	119	232672	4.73	ug/l	99
86) 1,3-Dichlorobenzene	12.42	146	128559	4.73	ug/l	99
87) 1,4-Dichlorobenzene	12.51	146	118708	4.38	ug/l	95
88) n-Butylbenzene	12.79	91	235139	4.76	ug/l	93
89) Hexachloroethane	12.85	117	46382	3.99	ug/l	72
90) 1,2-Dichlorobenzene	12.88	146	113113	4.53	ug/l	92
91) 1,2-Dibromo-3-Chloropropan	13.58	75	7345	4.33	ug/l	95
92) 1,2,4-Trichlorobenzene	14.13	180	65104	4.50	ug/l	95
93) Hexachlorobutadiene	14.12	225	52317	4.76	ug/l	97
94) Naphthalene	14.39	128	100711	5.24	ug/l #	90

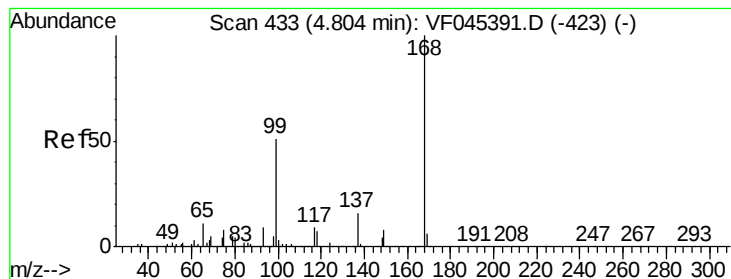
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,2,3-Trichlorobenzene	14.54	180	47538	4.00	ug/l	85

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.81 min Scan# 434

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

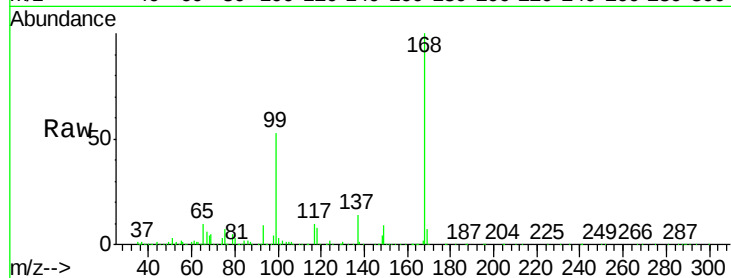
LOD-SOIL2015-01

Tgt Ion:168 Resp: 1114277

Ion Ratio Lower Upper

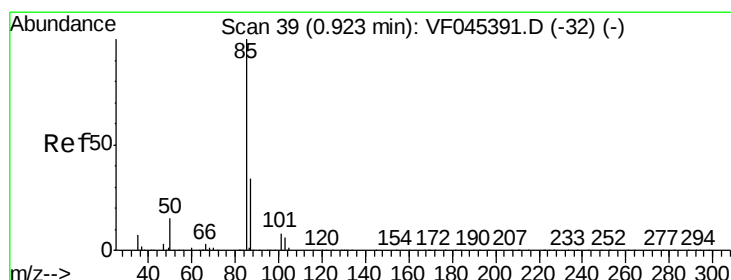
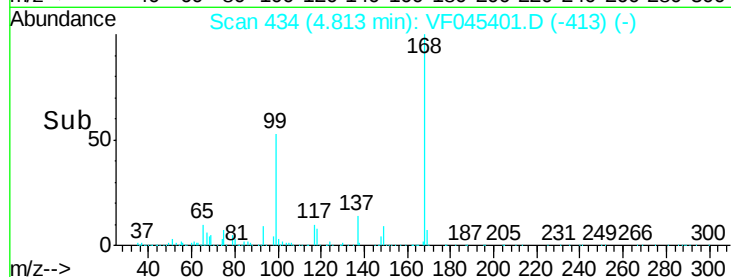
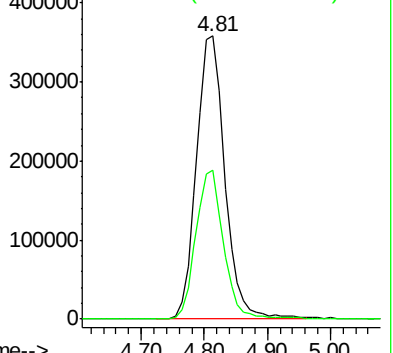
168 100

99 52.7 39.0 58.4



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 4.21 ug/l

RT: 0.93 min Scan# 40

Delta R.T. 0.01 min

Lab File: VF045401.D

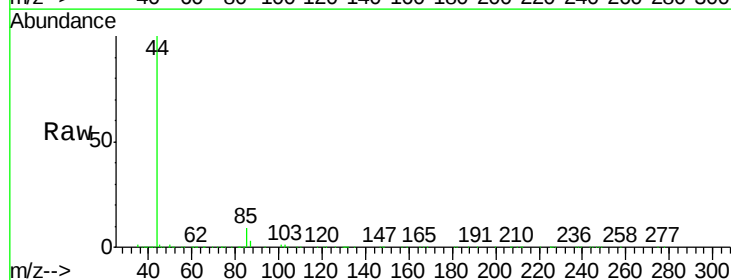
Acq: 16 Sep 2015 21:04

Tgt Ion: 85 Resp: 39996

Ion Ratio Lower Upper

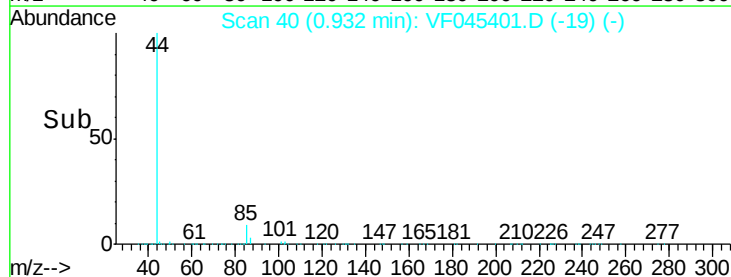
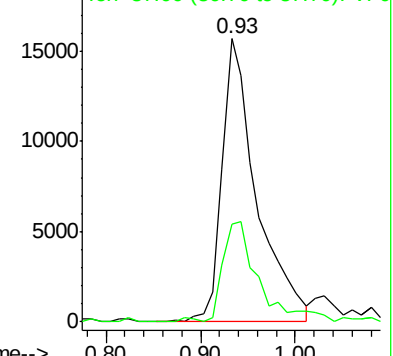
85 100

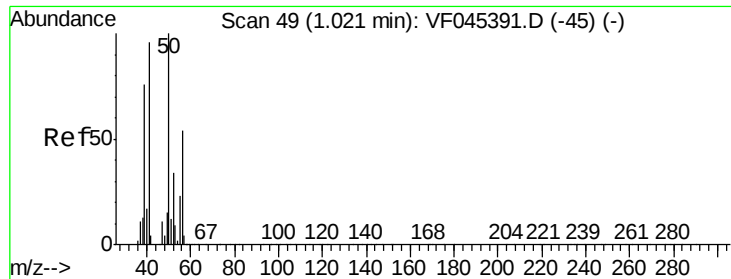
87 34.5 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 4.74 ug/l

RT: 1.02 min Scan# 49

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

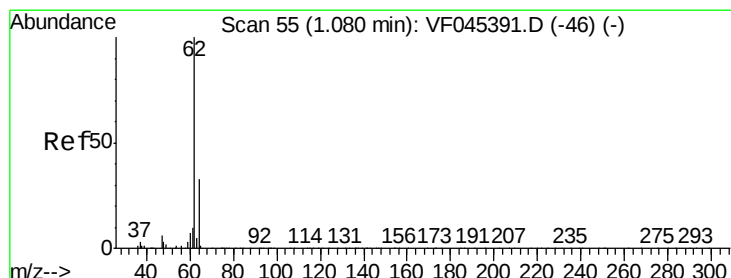
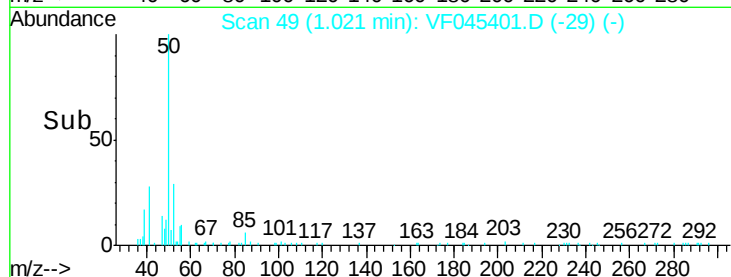
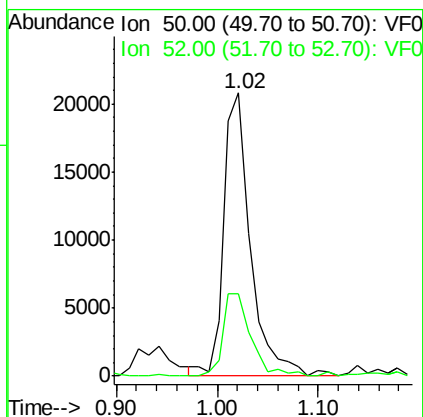
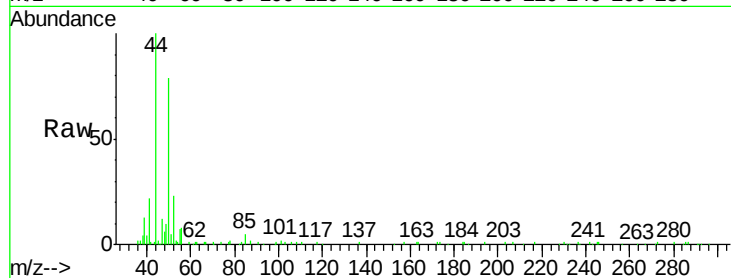
LOD-SOIL2015-01

Tgt Ion: 50 Resp: 38481

Ion Ratio Lower Upper

50 100

52 29.1 23.8 35.8



#4

Vinyl Chloride

Concen: 4.13 ug/l

RT: 1.08 min Scan# 55

Delta R.T. 0.00 min

Lab File: VF045401.D

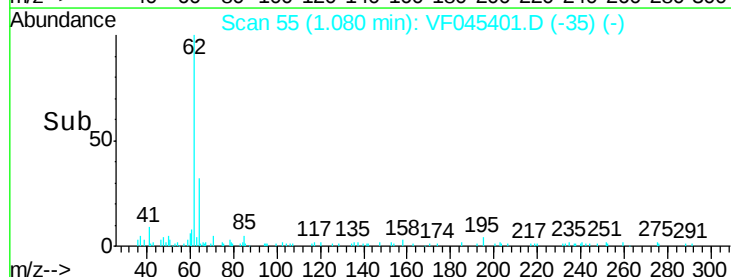
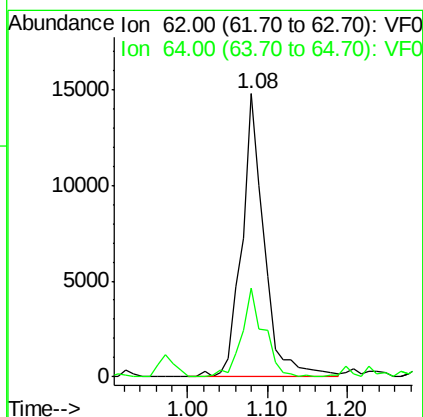
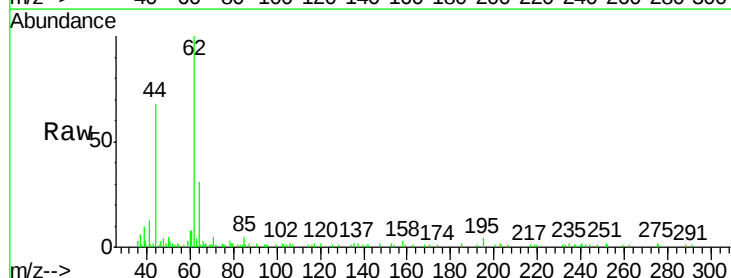
Acq: 16 Sep 2015 21:04

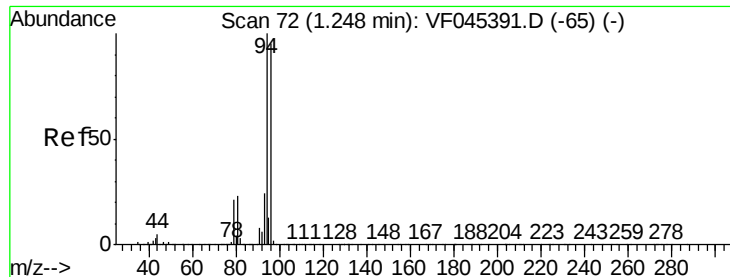
Tgt Ion: 62 Resp: 28768

Ion Ratio Lower Upper

62 100

64 31.2 26.6 39.8





#5

Bromomethane

Concen: 4.77 ug/l

RT: 1.25 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

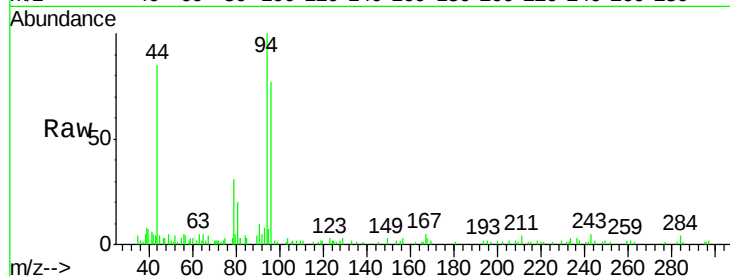
LOD-SOIL2015-01

Tgt Ion: 94 Resp: 20626

Ion Ratio Lower Upper

94 100

96 77.0 75.0 112.4



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

12000

10000

8000

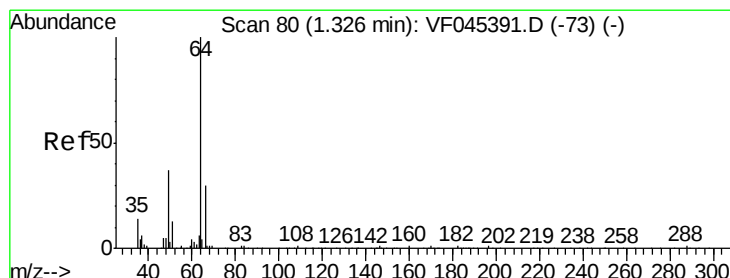
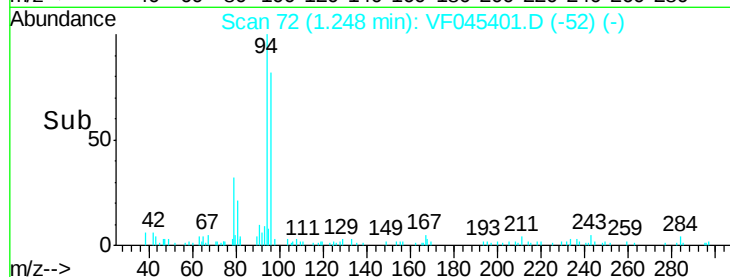
6000

4000

2000

0

Time--> 1.10 1.20 1.30



#6

Chloroethane

Concen: 4.37 ug/l

RT: 1.33 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF045401.D

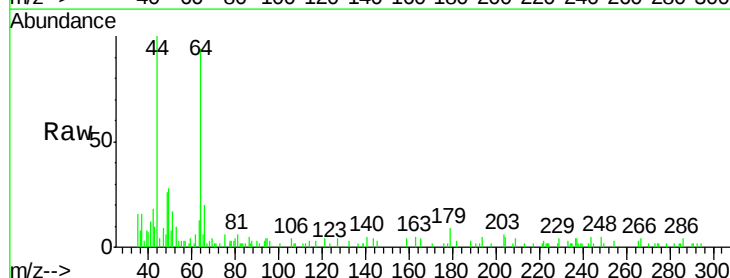
Acq: 16 Sep 2015 21:04

Tgt Ion: 64 Resp: 12134

Ion Ratio Lower Upper

64 100

66 21.0 27.3 40.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

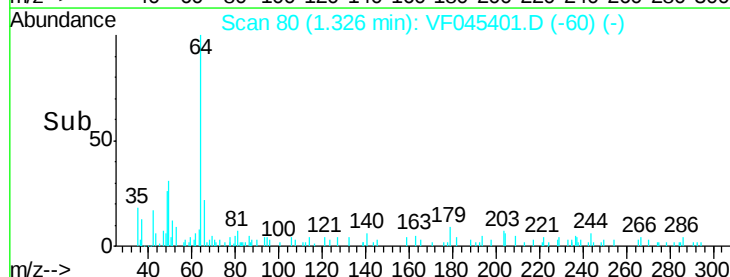
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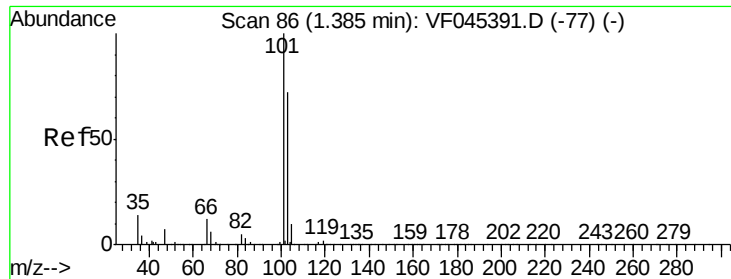
4000

2000

0

Time--> 1.20 1.30 1.40





#7

Trichlorofluoromethane

Concen: 1.72 ug/l

RT: 1.39 min Scan# 86

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

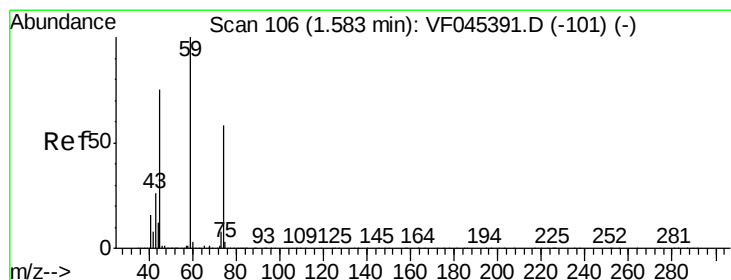
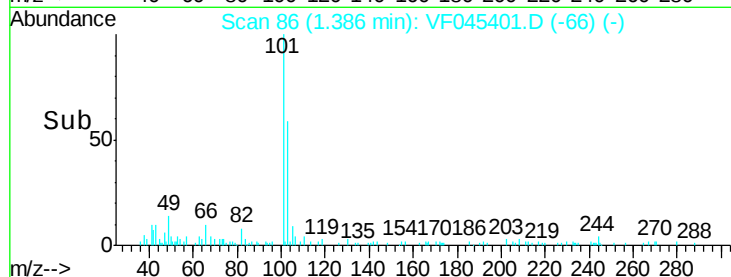
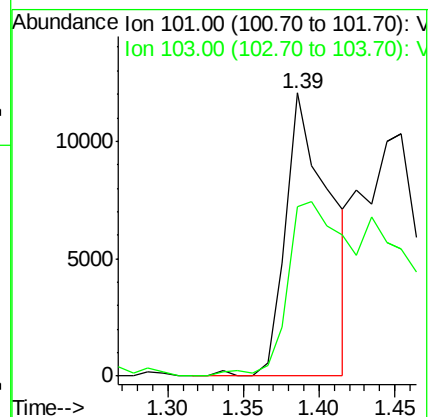
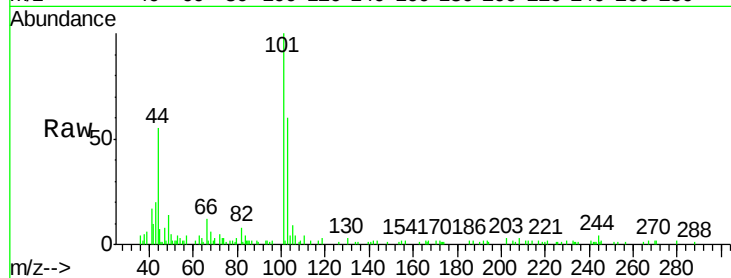
LOD-SOIL2015-01

Tgt Ion:101 Resp: 24621

Ion Ratio Lower Upper

101 100

103 60.0 50.8 76.2



#8

Diethyl Ether

Concen: 4.14 ug/l

RT: 1.59 min Scan# 107

Delta R.T. 0.01 min

Lab File: VF045401.D

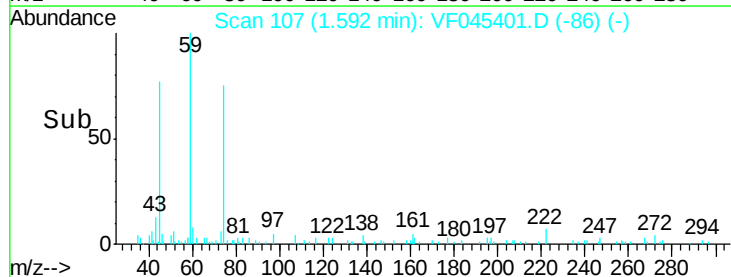
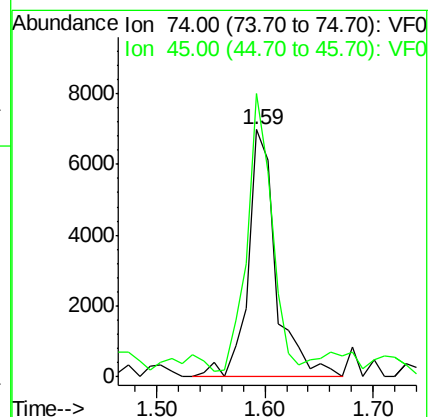
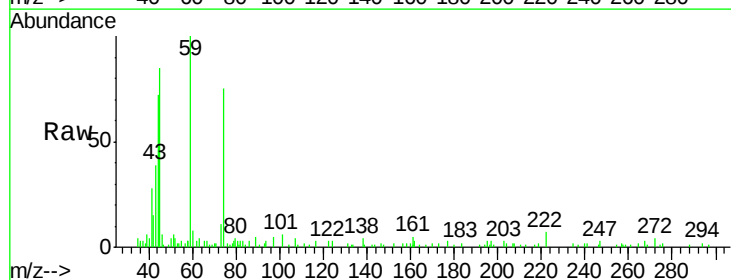
Acq: 16 Sep 2015 21:04

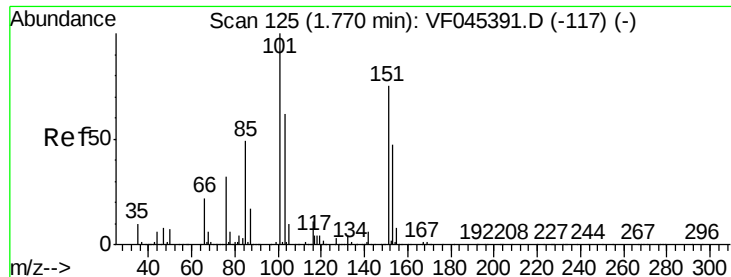
Tgt Ion: 74 Resp: 12373

Ion Ratio Lower Upper

74 100

45 114.5 60.9 182.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.10 ug/l

RT: 1.77 min Scan# 125

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

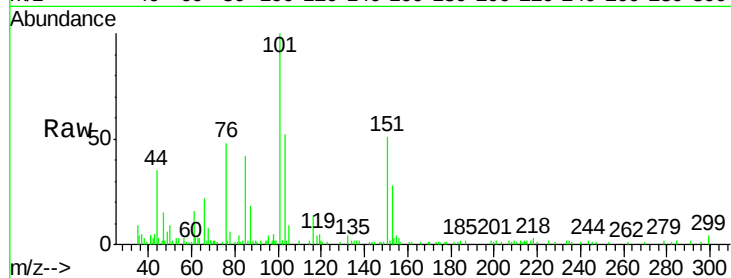
Tgt Ion:101 Resp: 33746

Ion Ratio Lower Upper

101 100

85 41.7 40.0 60.0

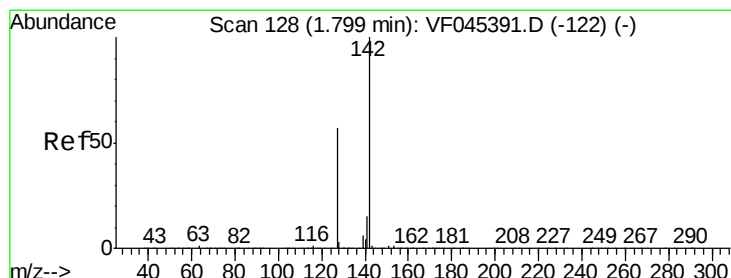
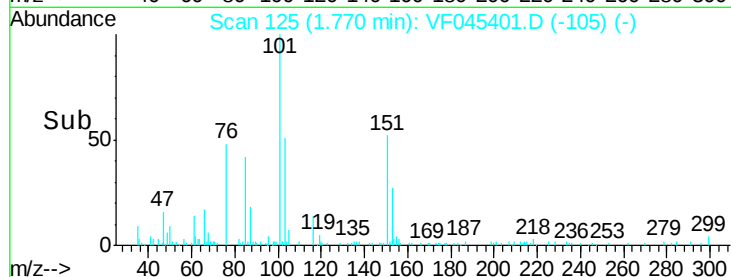
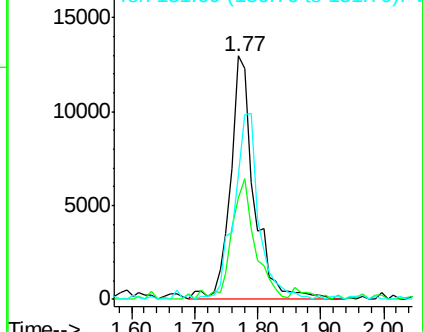
151 51.1 62.8 94.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 3.87 ug/l

RT: 1.81 min Scan# 129

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

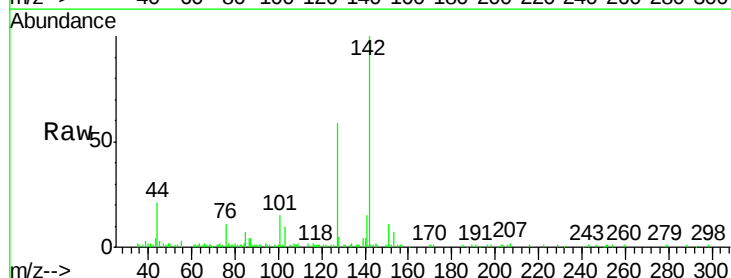
Tgt Ion:142 Resp: 65135

Ion Ratio Lower Upper

142 100

127 57.9 43.3 64.9

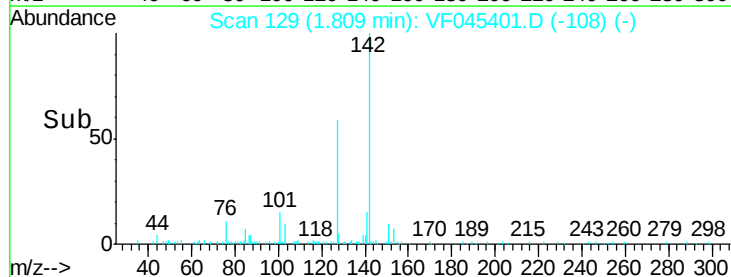
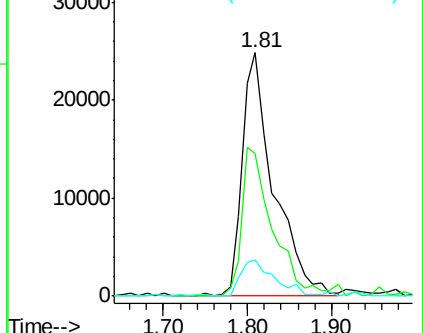
141 14.7 12.1 18.1

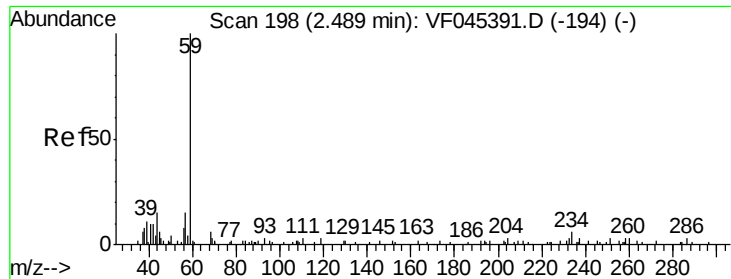


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

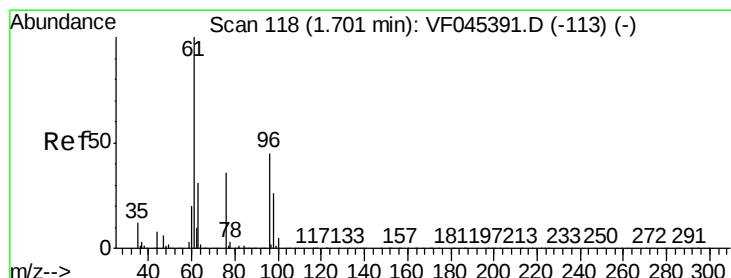
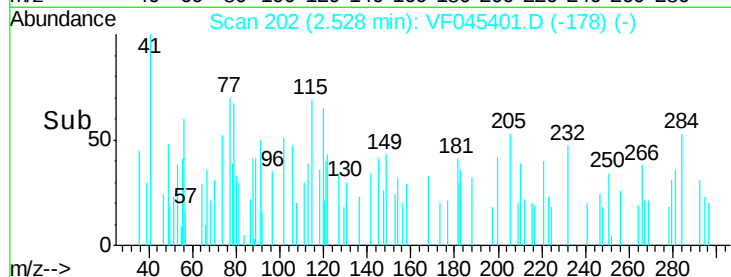
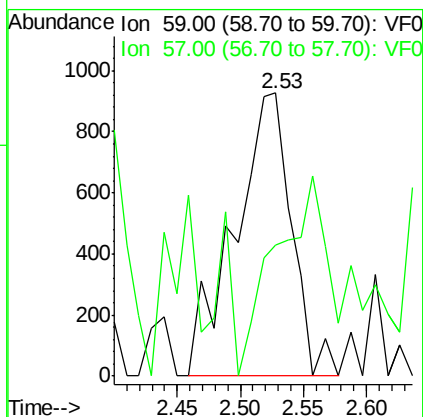
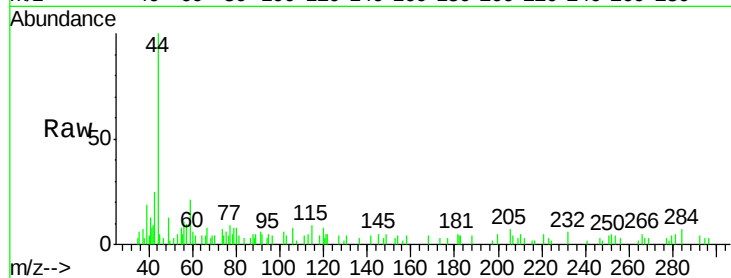




#11
Tert butyl alcohol
Concen: 21.53 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.04 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

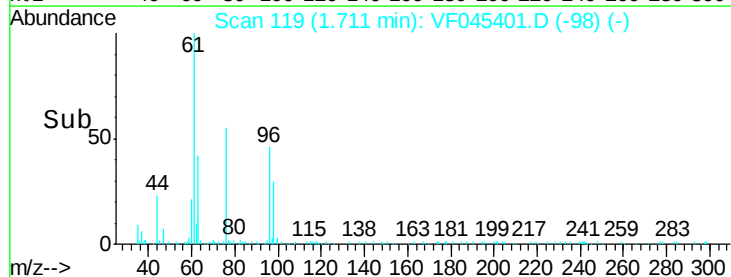
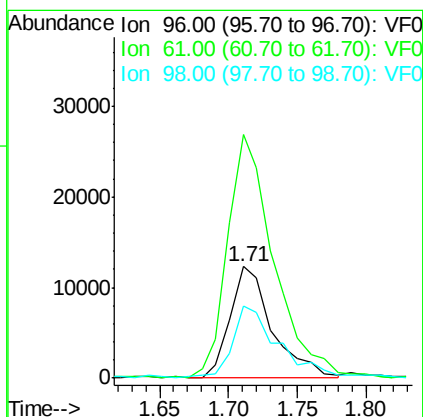
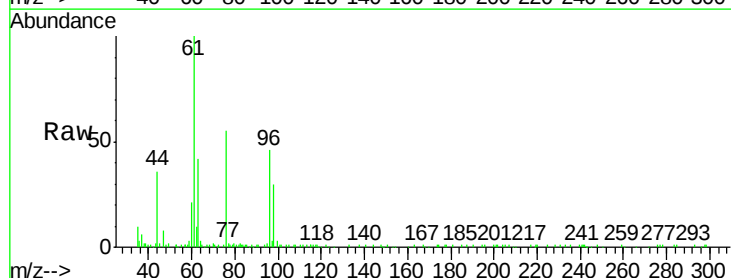
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

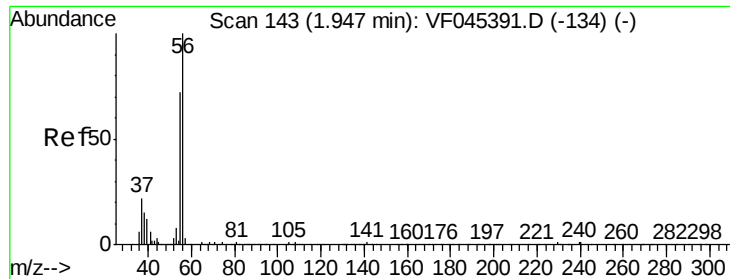
Tgt Ion: 59 Resp: 2895
Ion Ratio Lower Upper
59 100
57 46.5 8.6 13.0#



#12
1,1-Dichloroethene
Concen: 3.79 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 96 Resp: 25906
Ion Ratio Lower Upper
96 100
61 218.4 165.8 248.8
98 64.8 51.2 76.8

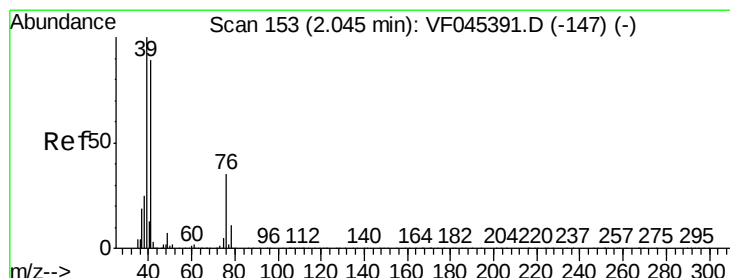
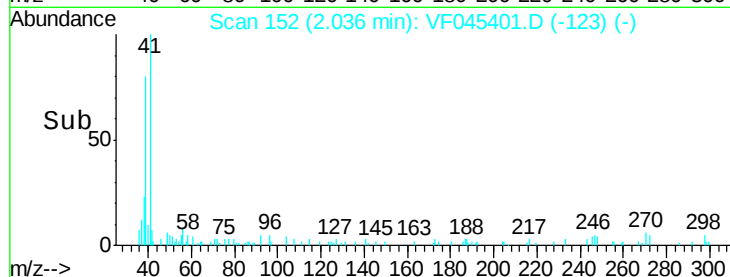
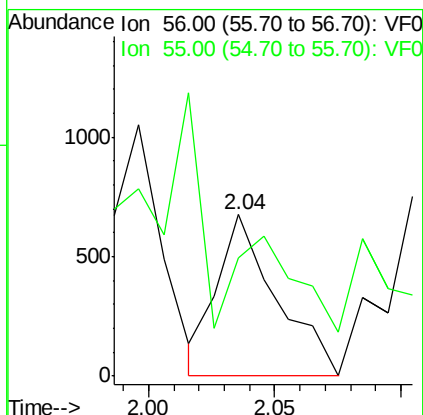
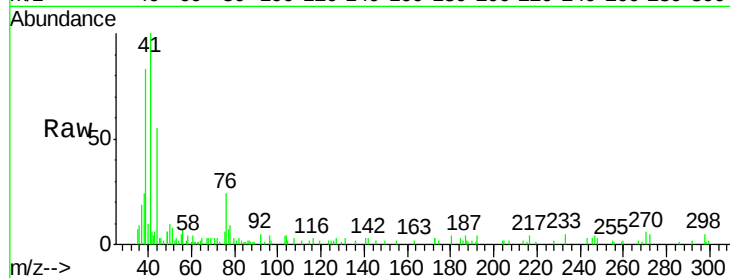




#13
Acrolein
Concen: 1.98 ug/l
RT: 2.04 min Scan# 152
Delta R.T. 0.09 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

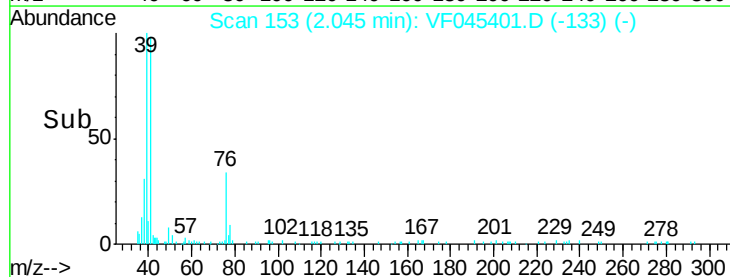
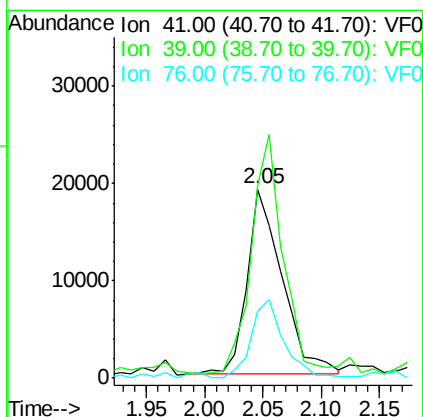
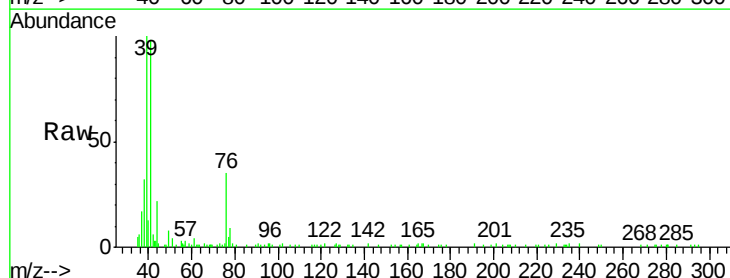
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

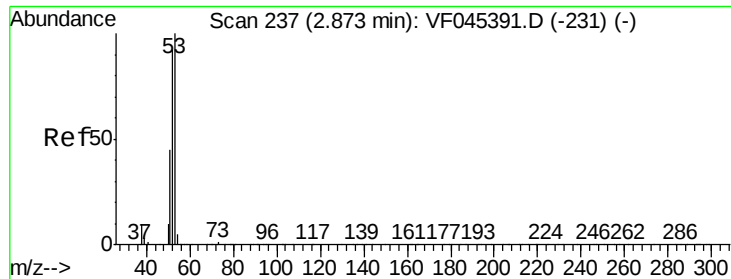
Tgt Ion: 56 Resp: 1103
Ion Ratio Lower Upper
56 100
55 73.3 60.5 90.7



#14
Allyl chloride
Concen: 3.71 ug/l
RT: 2.05 min Scan# 153
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 41 Resp: 39362
Ion Ratio Lower Upper
41 100
39 101.9 92.8 139.2
76 35.6 27.7 41.5





#15

Acrylonitrile

Concen: 19.93 ug/l

RT: 2.88 min Scan# 238

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

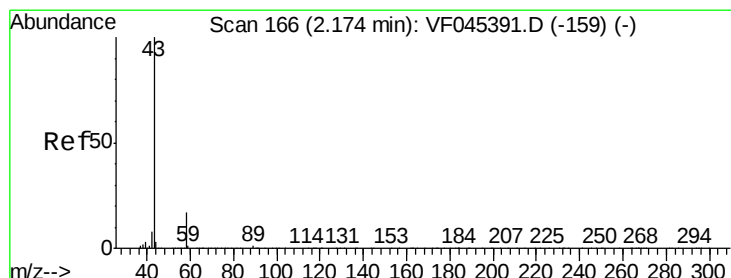
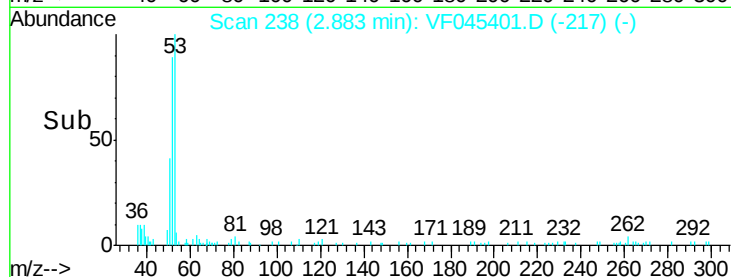
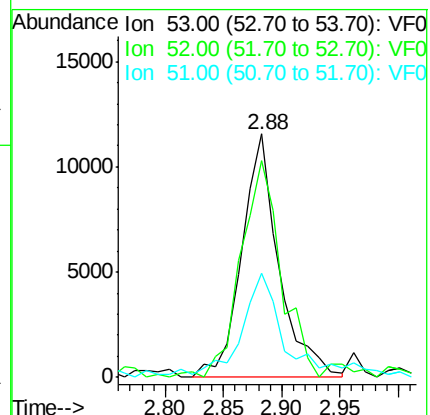
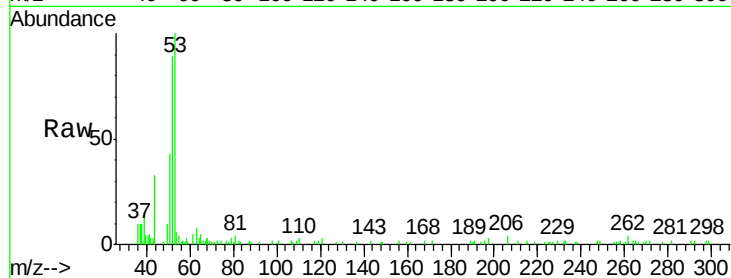
Tgt Ion: 53 Resp: 25606

Ion Ratio Lower Upper

53 100

52 88.8 72.7 109.1

51 42.6 42.2 63.2



#16

Acetone

Concen: 18.97 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.02 min

Lab File: VF045401.D

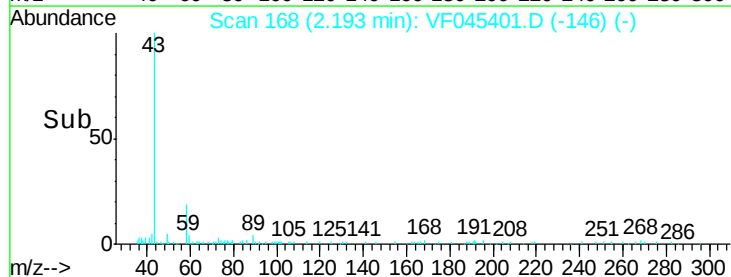
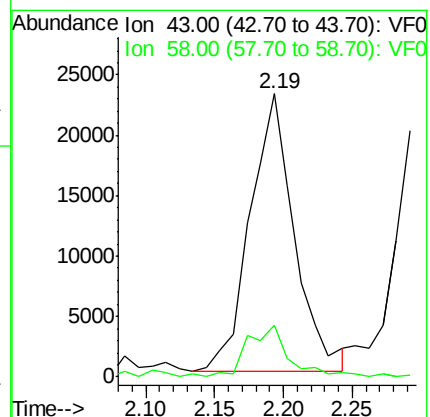
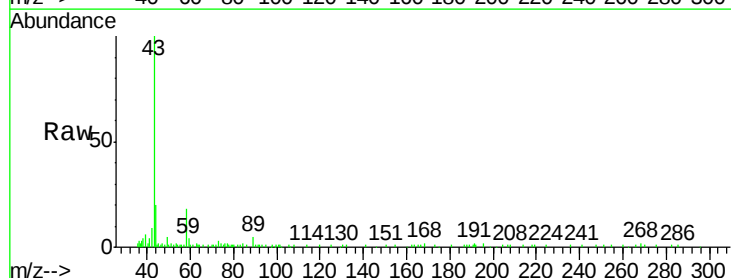
Acq: 16 Sep 2015 21:04

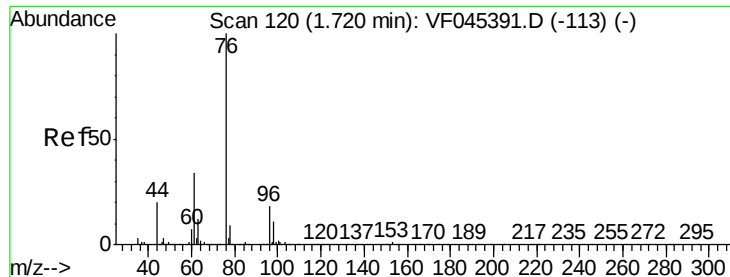
Tgt Ion: 43 Resp: 51535

Ion Ratio Lower Upper

43 100

58 18.1 13.9 20.9

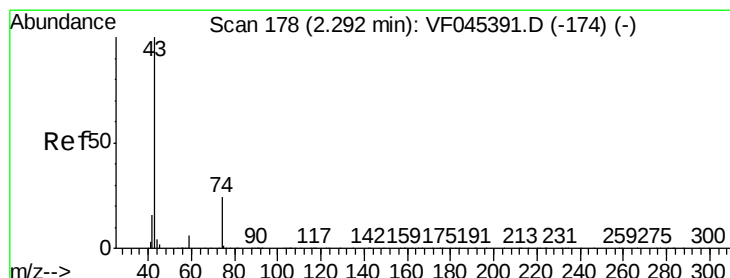
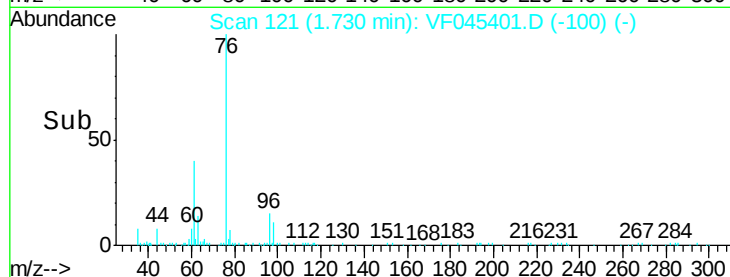
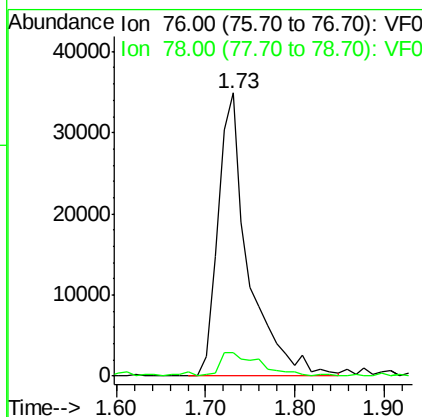
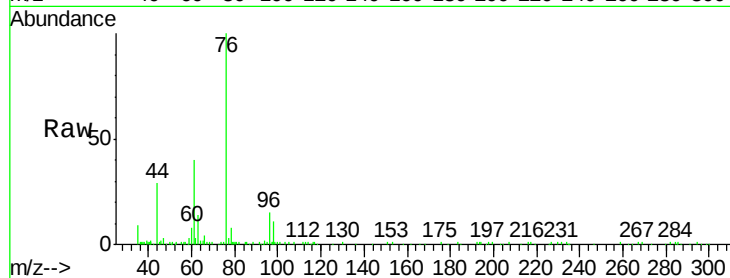




#17
Carbon Disulfide
Concen: 3.55 ug/l
RT: 1.73 min Scan# 121
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

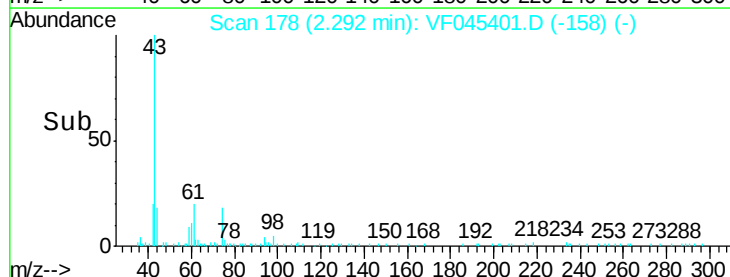
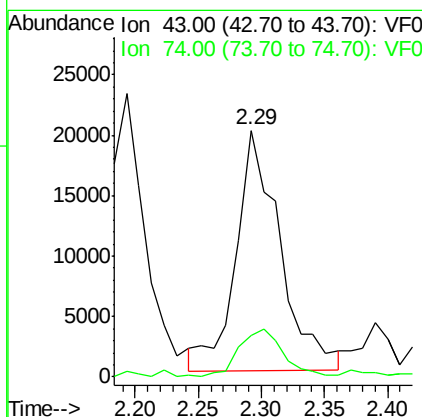
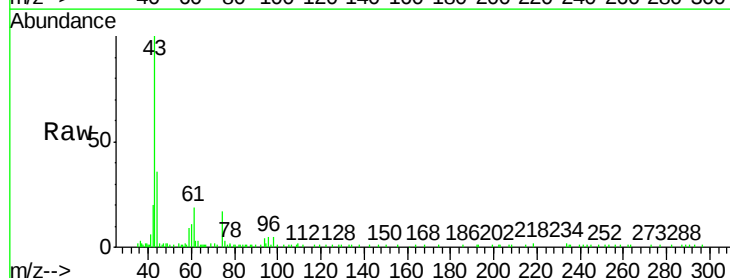
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

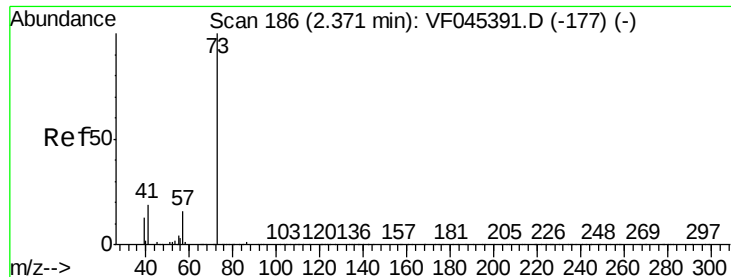
Tgt Ion: 76 Resp: 82702
Ion Ratio Lower Upper
76 100
78 8.3 7.6 11.4



#18
Methyl Acetate
Concen: 4.65 ug/l
RT: 2.29 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 43 Resp: 48410
Ion Ratio Lower Upper
43 100
74 16.9 15.1 22.7





#19

Methyl tert-butyl Ether

Concen: 3.95 ug/l

RT: 2.39 min Scan# 188

Delta R.T. 0.02 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

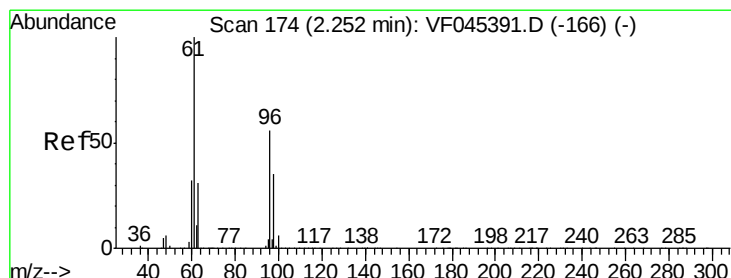
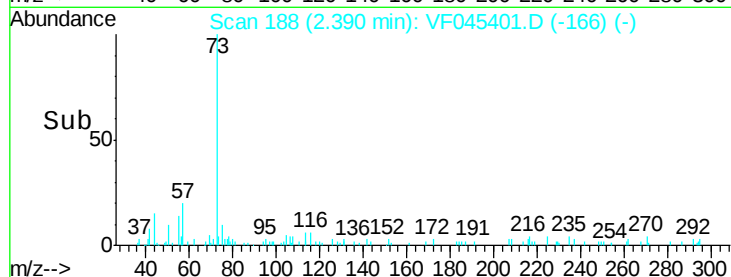
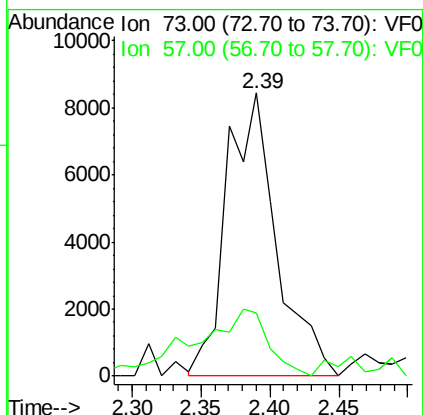
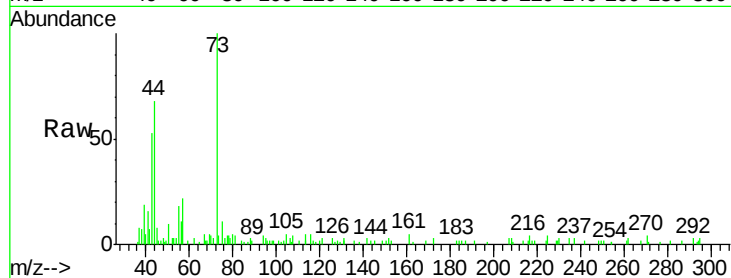
LOD-SOIL2015-01

Tgt Ion: 73 Resp: 21228

Ion Ratio Lower Upper

73 100

57 21.6 12.9 19.3#



#21

trans-1,2-Dichloroethene

Concen: 3.86 ug/l

RT: 2.26 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

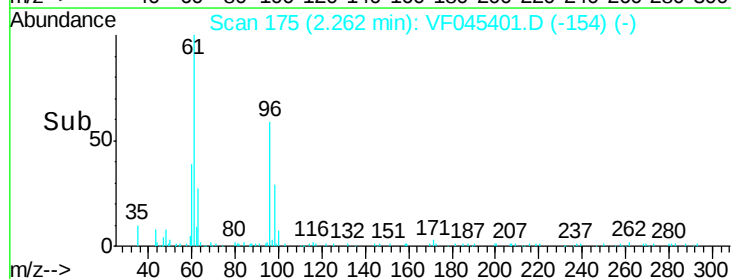
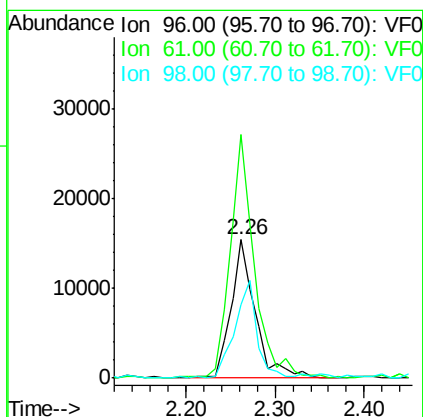
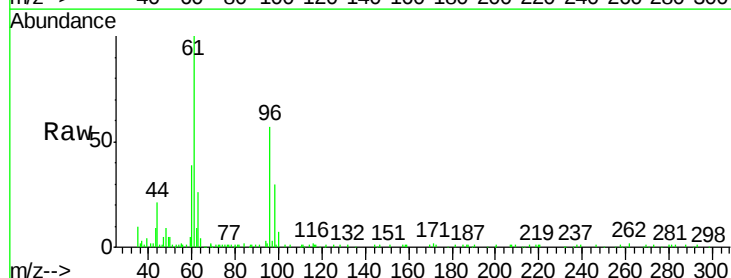
Tgt Ion: 96 Resp: 29564

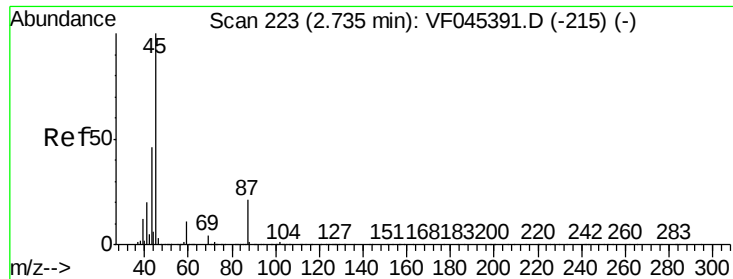
Ion Ratio Lower Upper

96 100

61 175.8 136.8 205.2

98 52.9 51.0 76.4

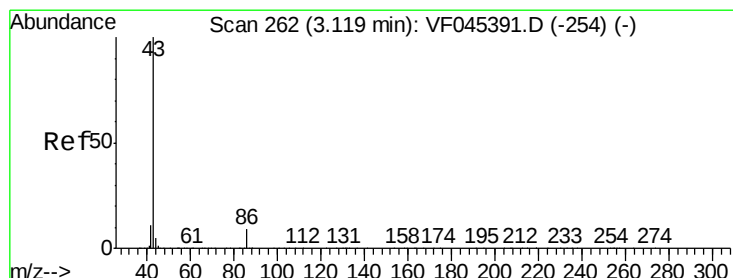
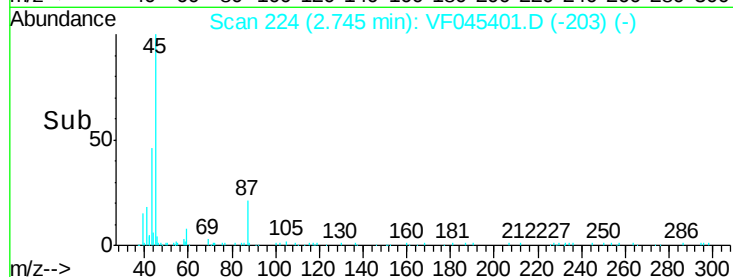
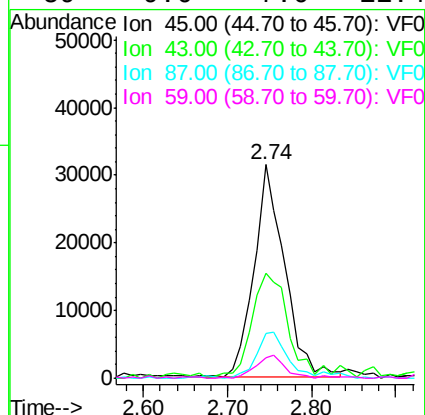
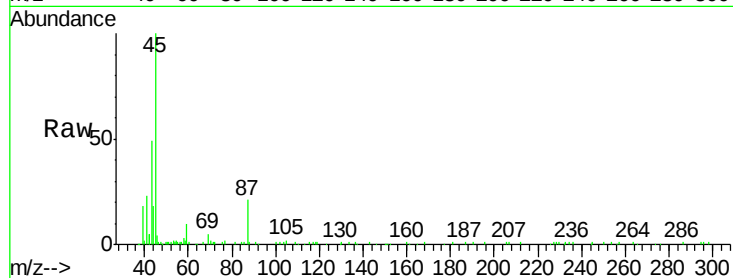




#22
Diisopropyl ether
Concen: 3.60 ug/l
RT: 2.74 min Scan# 224
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

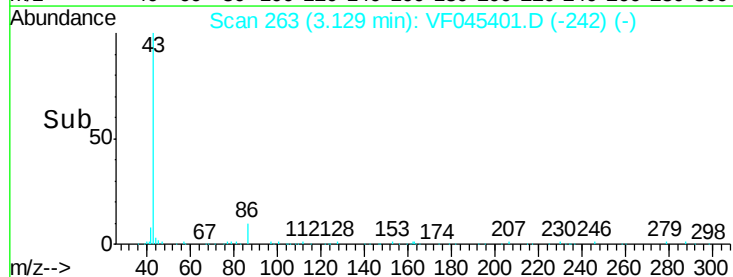
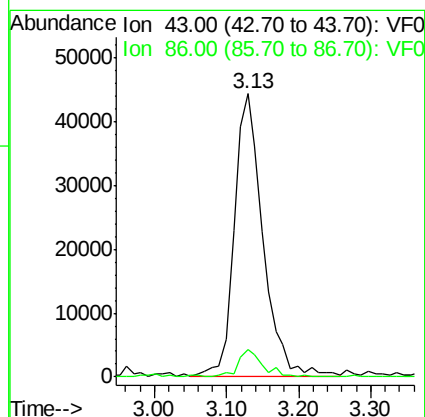
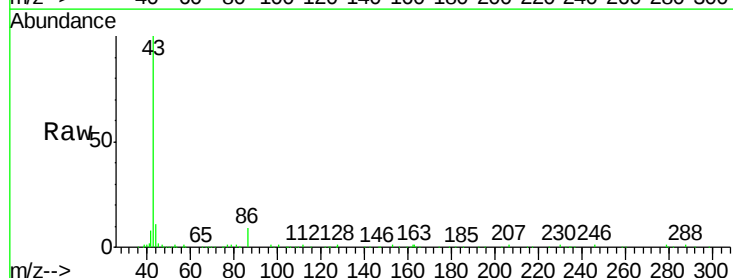
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

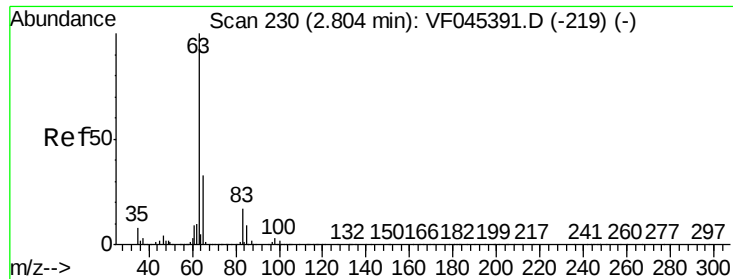
Tgt Ion:	45	Resp:	81223
Ion	Ratio	Lower	Upper
45	100		
43	49.1	42.2	63.4
87	21.2	16.6	25.0
59	9.6	7.6	11.4



#23
Vinyl Acetate
Concen: 18.73 ug/l
RT: 3.13 min Scan# 263
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion:	43	Resp:	123534
Ion	Ratio	Lower	Upper
43	100		
86	9.5	6.3	9.5#





#24

1,1-Dichloroethane

Concen: 4.06 ug/l

RT: 2.81 min Scan# 231

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

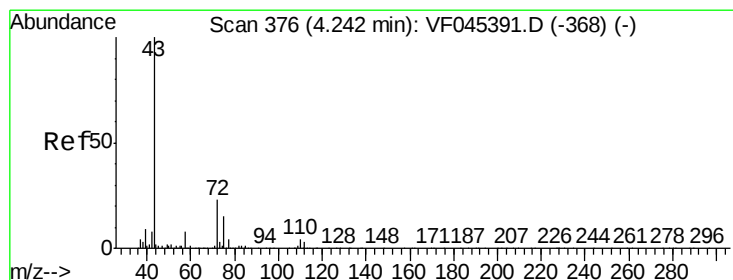
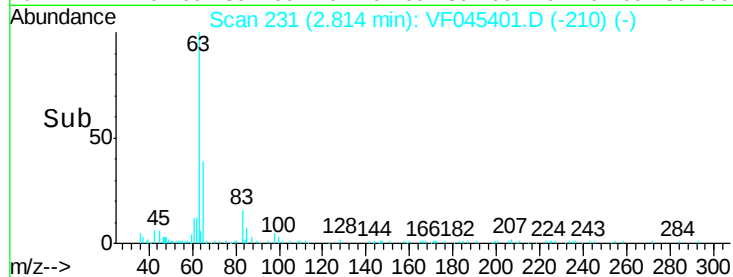
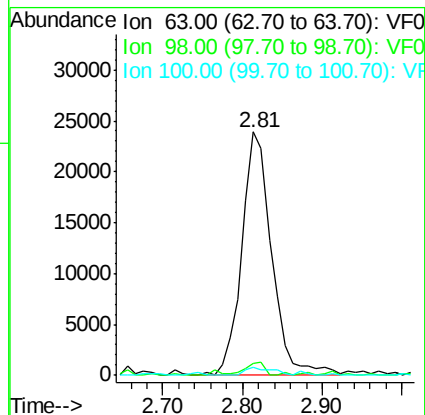
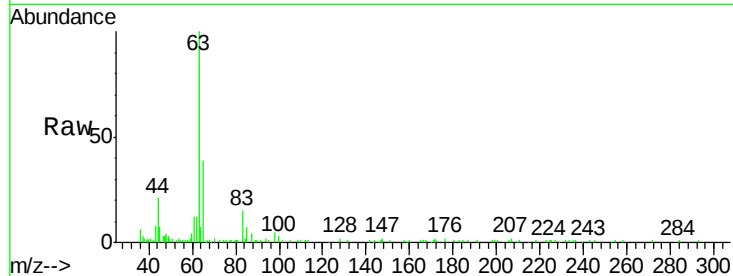
Tgt Ion: 63 Resp: 62098

Ion Ratio Lower Upper

63 100

98 5.1 2.2 6.6

100 3.4 1.1 3.5



#25

2-Butanone

Concen: 21.81 ug/l

RT: 4.26 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF045401.D

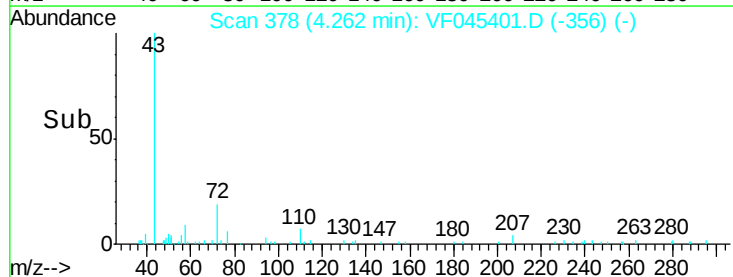
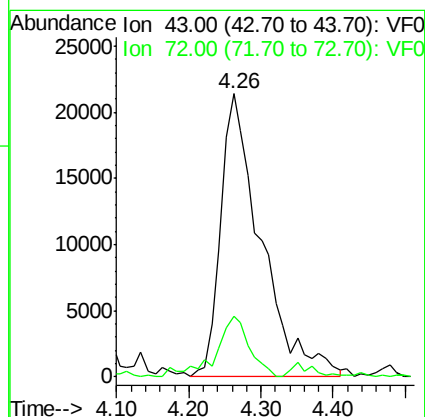
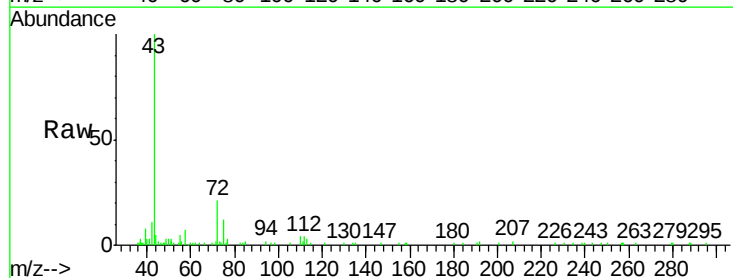
Acq: 16 Sep 2015 21:04

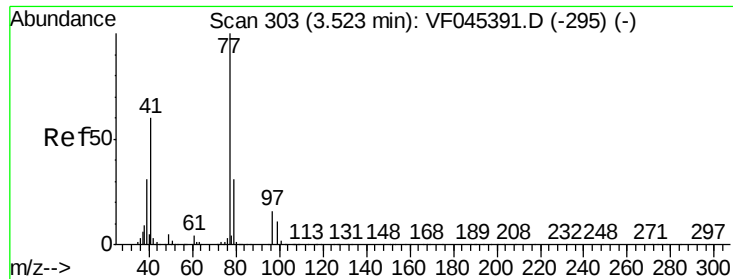
Tgt Ion: 43 Resp: 82877

Ion Ratio Lower Upper

43 100

72 21.4 20.2 30.2

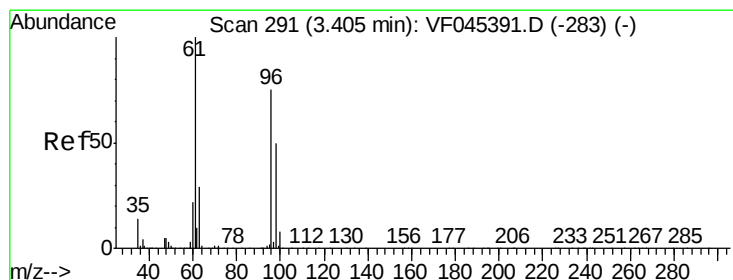
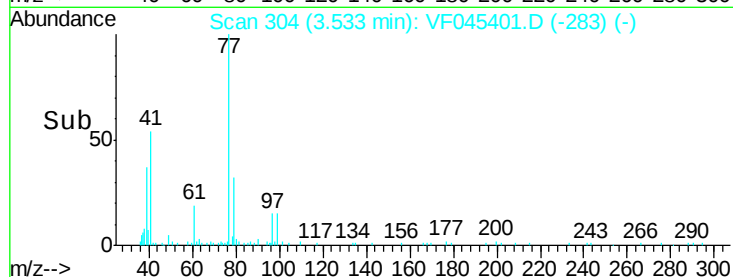
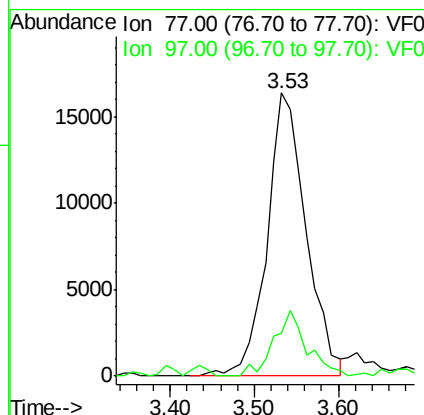
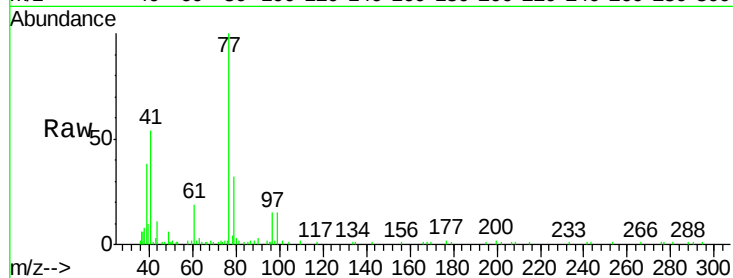




#26
 2,2-Dichloropropane
 Concen: 3.72 ug/l
 RT: 3.53 min Scan# 304
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

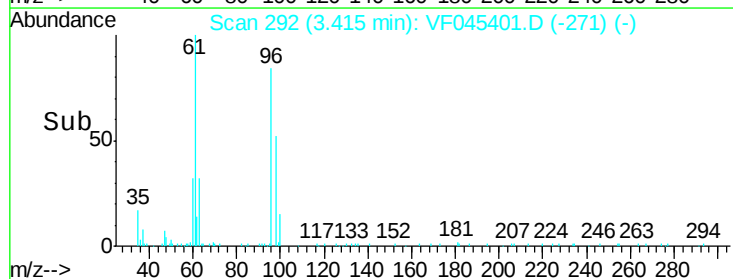
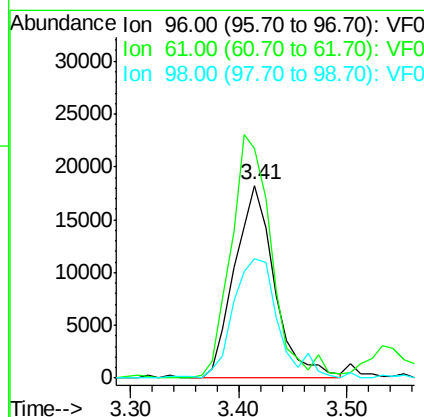
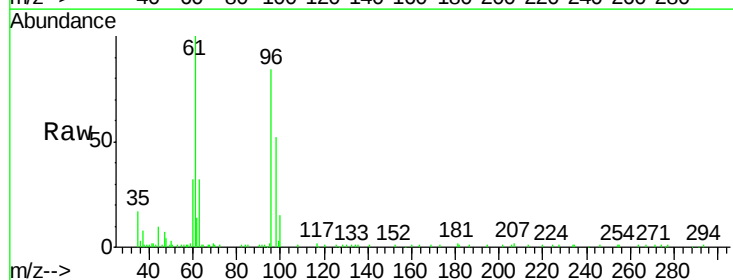
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

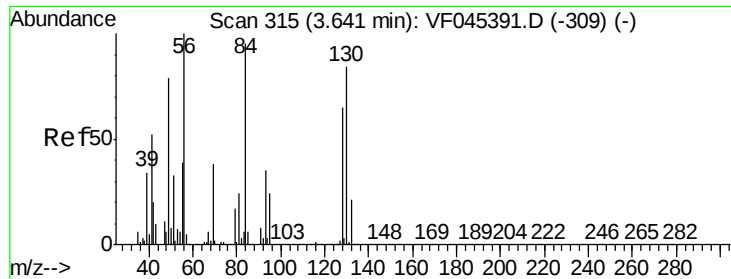
Tgt Ion: 77 Resp: 52947
 Ion Ratio Lower Upper
 77 100
 97 15.3 9.2 27.4



#27
 cis-1,2-Dichloroethene
 Concen: 3.96 ug/l
 RT: 3.41 min Scan# 292
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion: 96 Resp: 46798
 Ion Ratio Lower Upper
 96 100
 61 118.9 0.0 268.6
 98 62.2 0.0 135.8





#28

Bromochloromethane

Concen: 4.25 ug/l

RT: 3.65 min Scan# 316

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

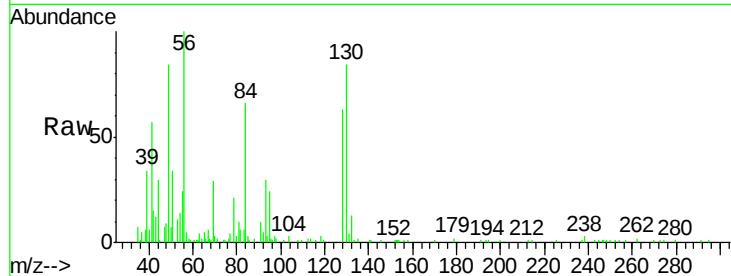
Tgt Ion: 49 Resp: 25505

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

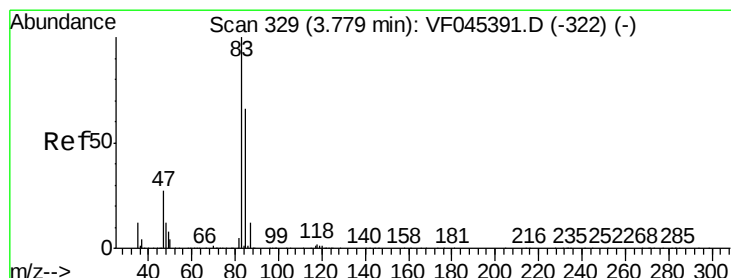
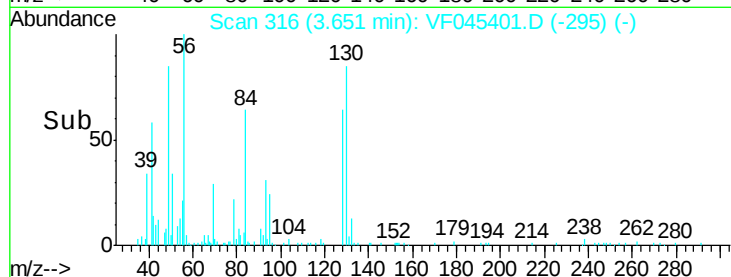
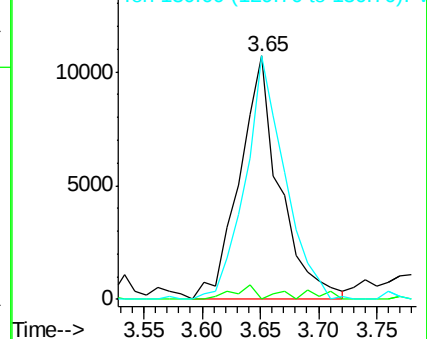
130 100.0 79.6 119.4



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Chloroform

Concen: 3.89 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF045401.D

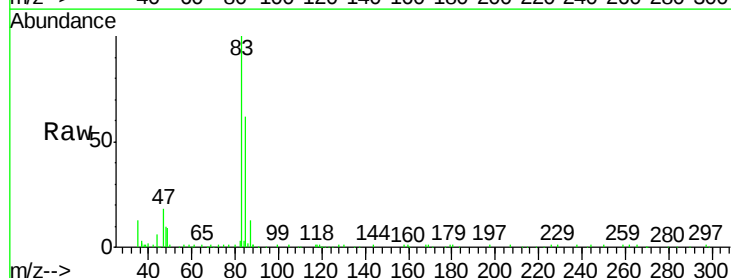
Acq: 16 Sep 2015 21:04

Tgt Ion: 83 Resp: 83647

Ion Ratio Lower Upper

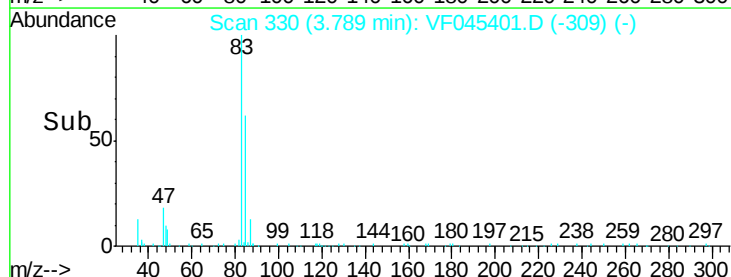
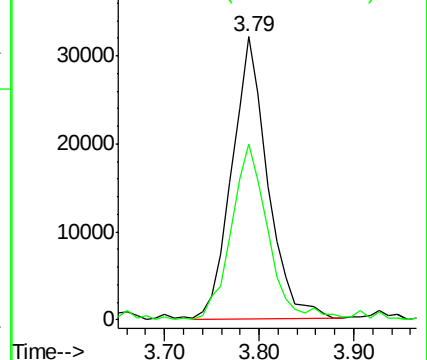
83 100

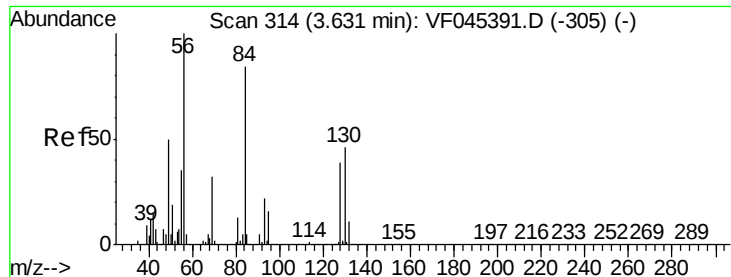
85 62.2 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

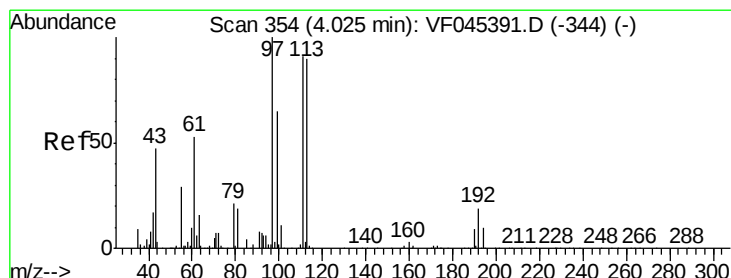
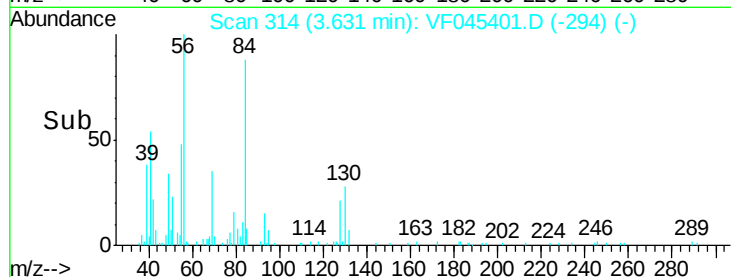
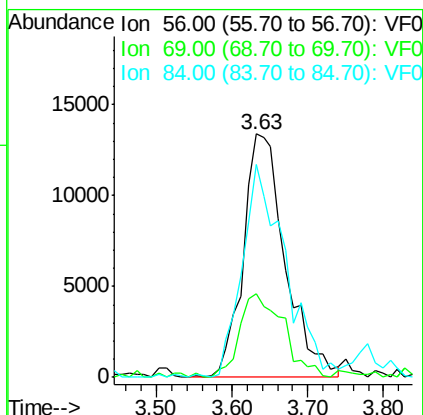
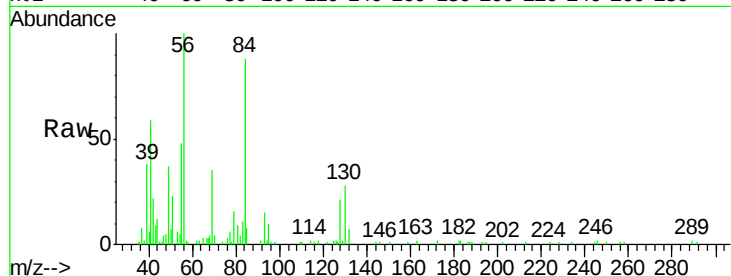




#30
Cyclohexane
Concen: 3.76 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

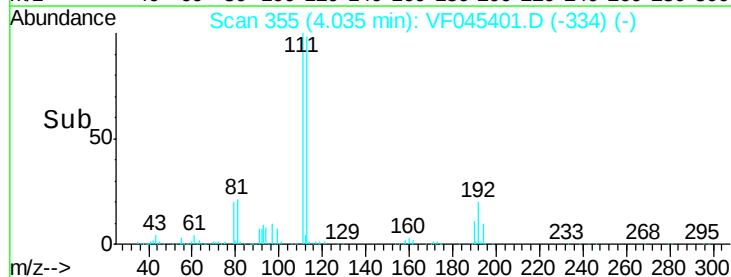
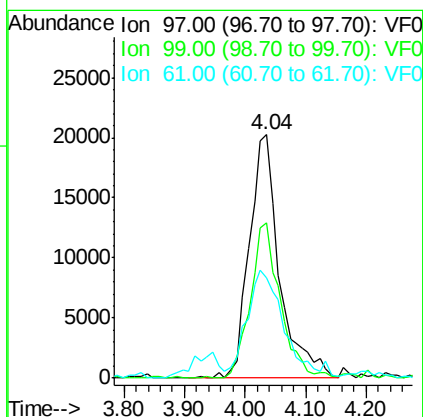
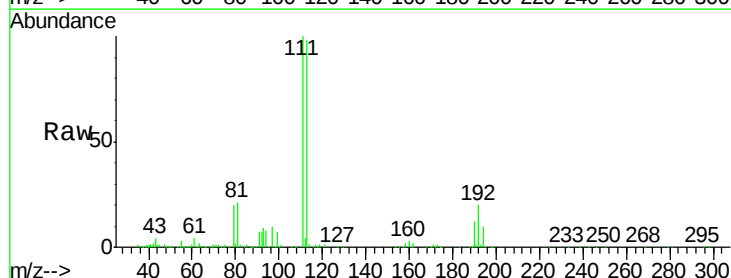
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

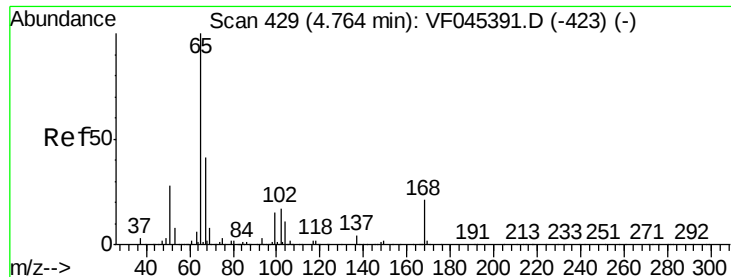
Tgt Ion: 56 Resp: 51851
Ion Ratio Lower Upper
56 100
69 34.5 26.1 39.1
84 87.6 72.2 108.4



#31
1,1,1-Trichloroethane
Concen: 3.94 ug/l
RT: 4.04 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 97 Resp: 70231
Ion Ratio Lower Upper
97 100
99 63.9 51.1 76.7
61 41.0 37.8 56.6





#32

1,2-Dichloroethane-d4

Concen: 47.92 ug/l

RT: 4.77 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

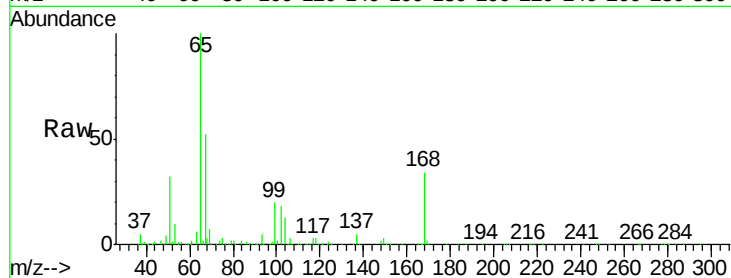
LOD-SOIL2015-01

Tgt Ion: 65 Resp: 573370

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.77

200000

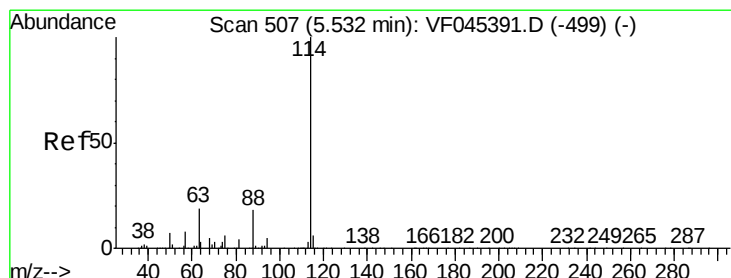
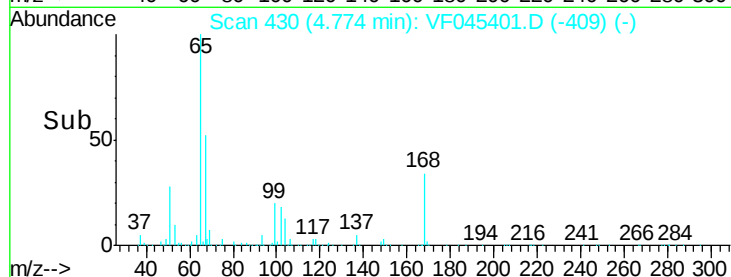
150000

100000

50000

0

Time--> 4.60 4.70 4.80 4.90 5.00



#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.54 min Scan# 508

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

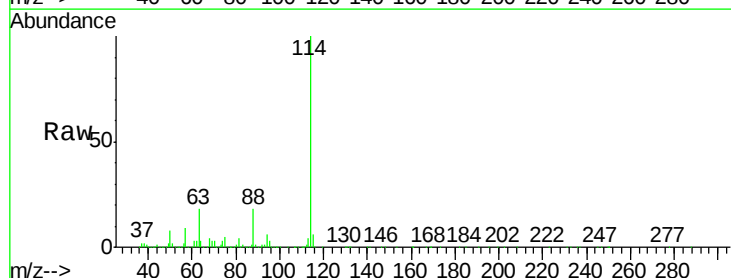
Tgt Ion: 114 Resp: 1588484

Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.2

88 17.7 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

5.54

800000

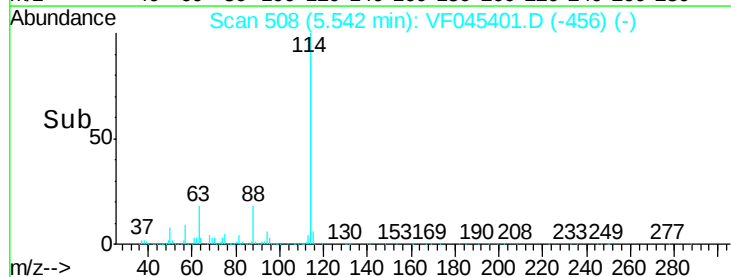
600000

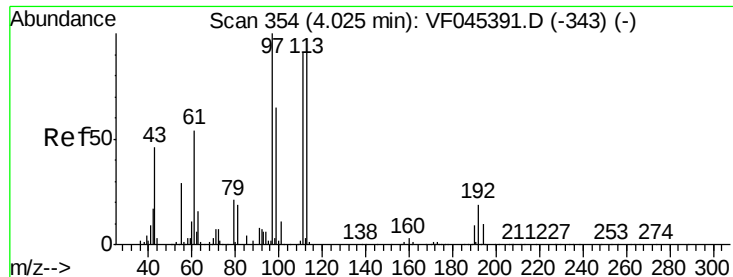
400000

200000

0

Time--> 5.40 5.50 5.60 5.70

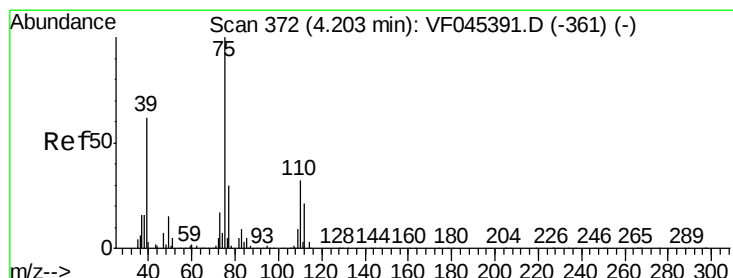
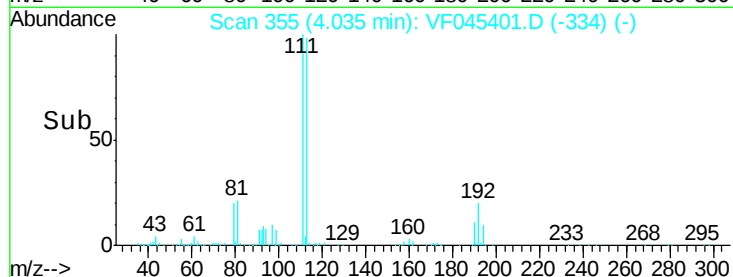
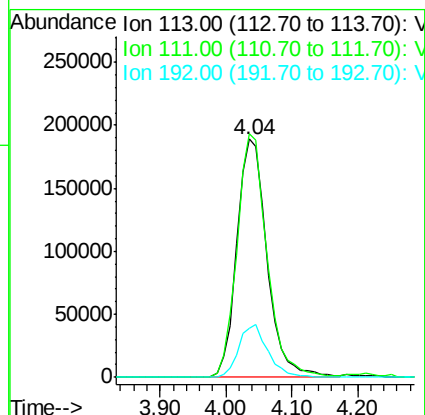
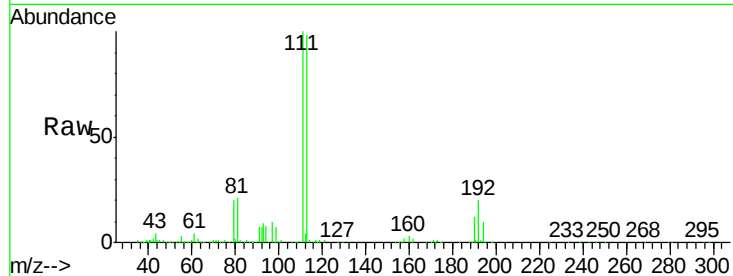




#34
 Dibromofluoromethane
 Concen: 49.63 ug/l
 RT: 4.04 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

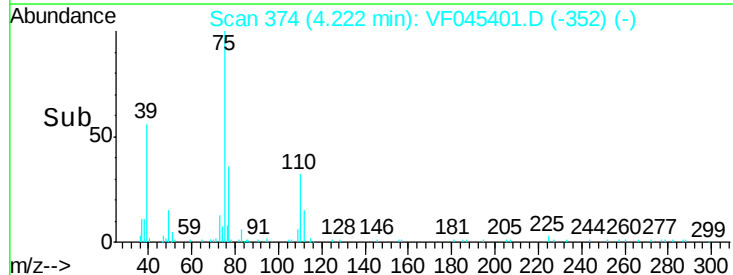
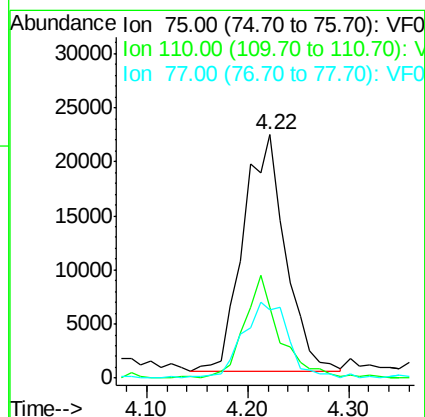
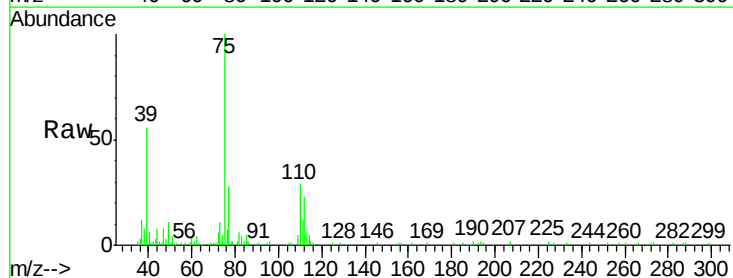
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

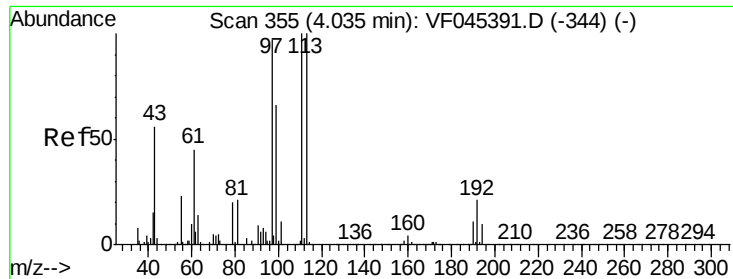
Tgt Ion:113 Resp: 610692
 Ion Ratio Lower Upper
 113 100
 111 102.1 75.5 113.3
 192 20.6 15.6 23.4



#35
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 4.22 min Scan# 374
 Delta R.T. 0.02 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion: 75 Resp: 63831
 Ion Ratio Lower Upper
 75 100
 110 29.2 15.9 47.6
 77 28.2 24.2 36.4

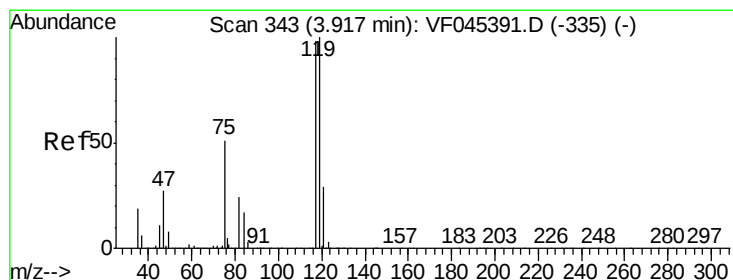
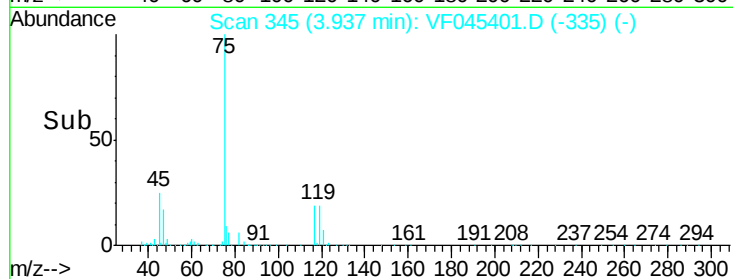
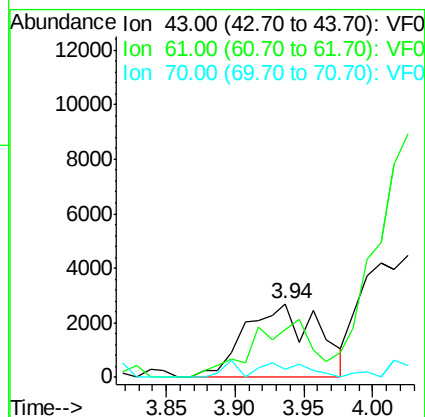
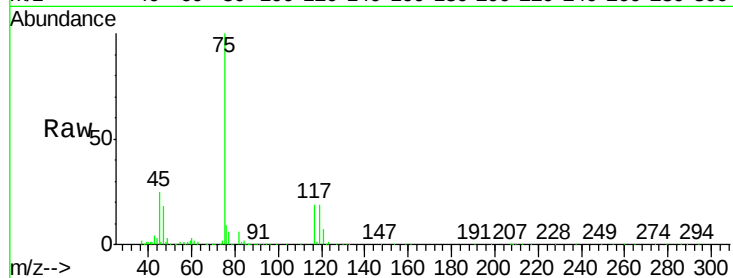




#36
 Ethyl Acetate
 Concen: 1.29 ug/l
 RT: 3.94 min Scan# 345
 Delta R.T. -0.10 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

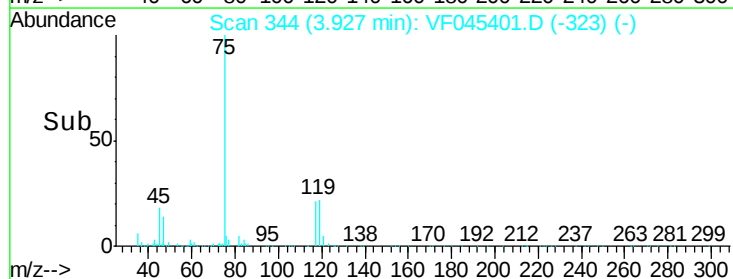
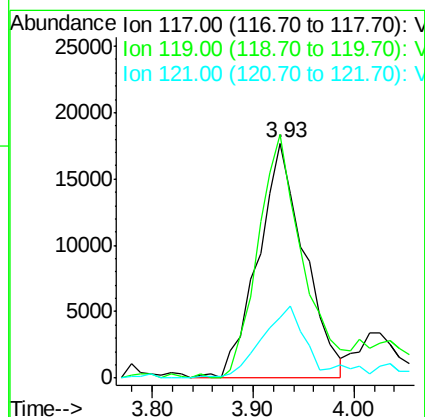
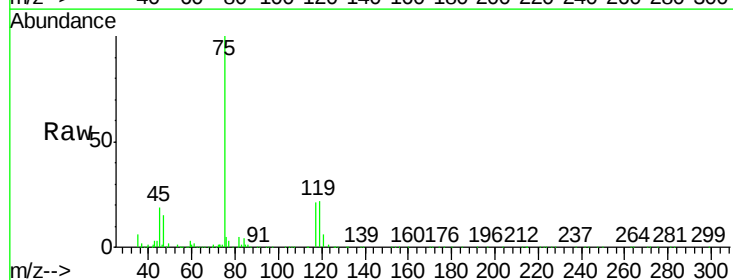
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

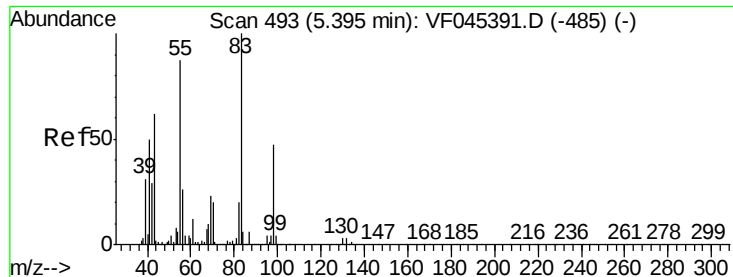
Tgt Ion: 43 Resp: 9819
 Ion Ratio Lower Upper
 43 100
 61 64.4 49.4 74.0
 70 11.1 10.8 16.2



#37
 Carbon Tetrachloride
 Concen: 3.55 ug/l
 RT: 3.93 min Scan# 344
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion: 117 Resp: 56400
 Ion Ratio Lower Upper
 117 100
 119 103.5 77.8 116.8
 121 25.9 25.4 38.0

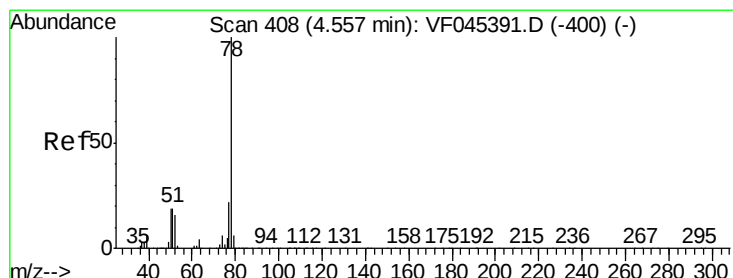
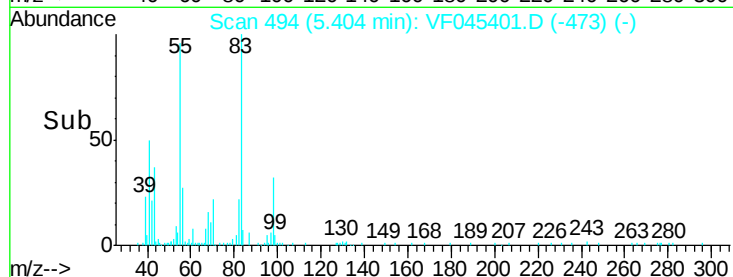
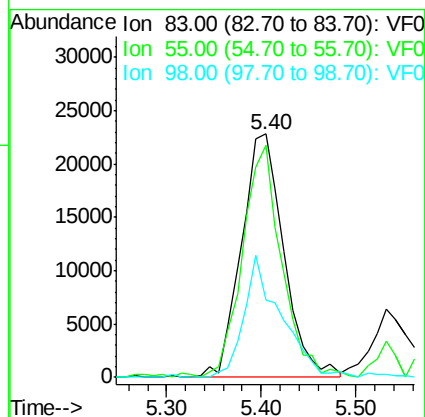
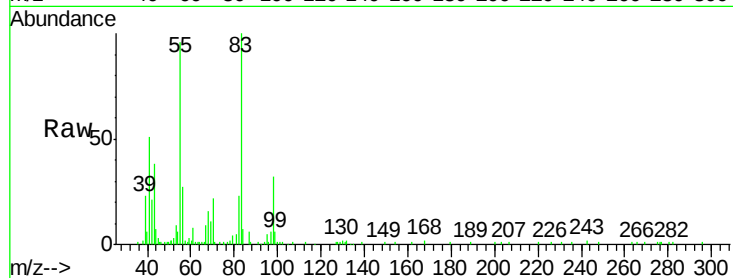




#38
Methylcyclohexane
Concen: 4.39 ug/l
RT: 5.40 min Scan# 494
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

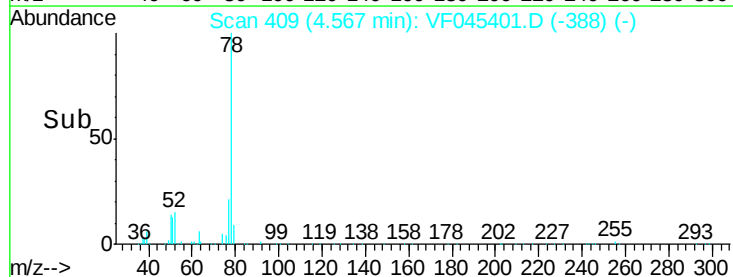
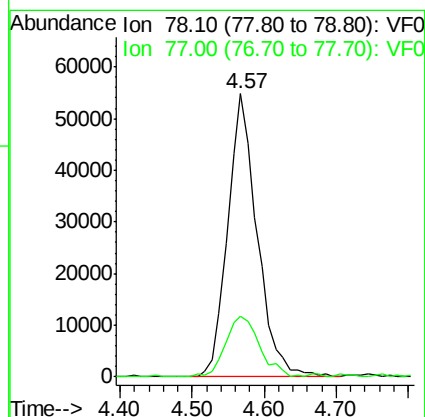
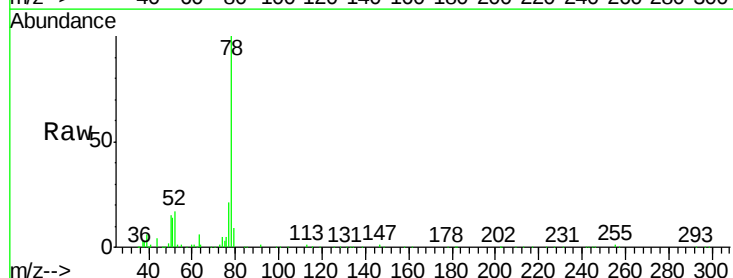
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

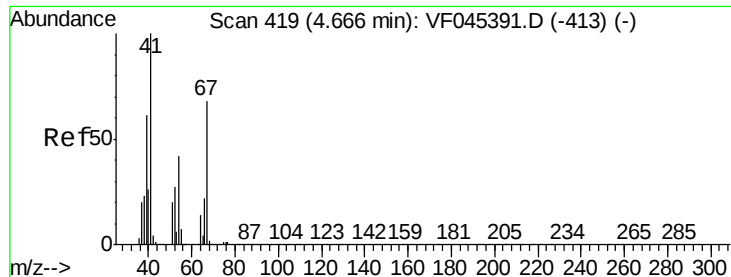
Tgt Ion: 83 Resp: 71057
Ion Ratio Lower Upper
83 100
55 95.6 60.5 90.7#
98 31.7 38.1 57.1#



#39
Benzene
Concen: 4.40 ug/l
RT: 4.57 min Scan# 409
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 78 Resp: 155025
Ion Ratio Lower Upper
78 100
77 21.5 18.6 28.0

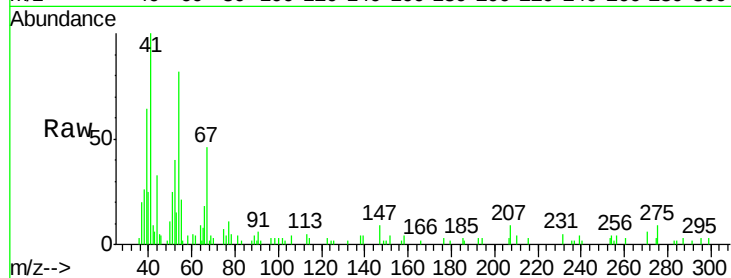




#40
Methacrylonitrile
Concen: 3.38 ug/l
RT: 4.68 min Scan# 420
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:	41	Resp:	12215
Ion	Ratio	Lower	Upper
41	100		
39	64.4	44.9	67.3
67	45.8	49.0	73.4#
52	40.1	38.2	57.2



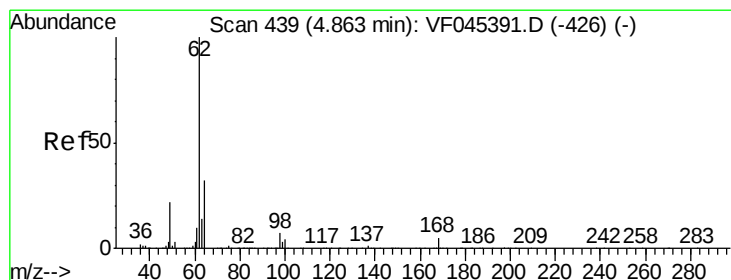
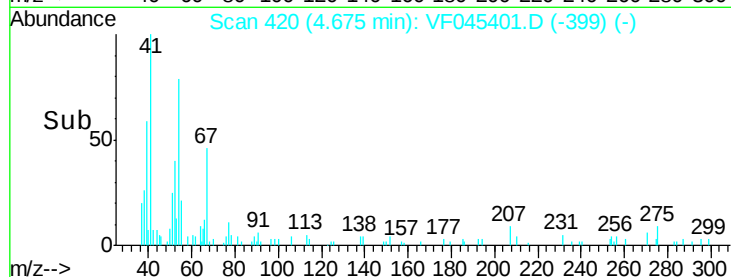
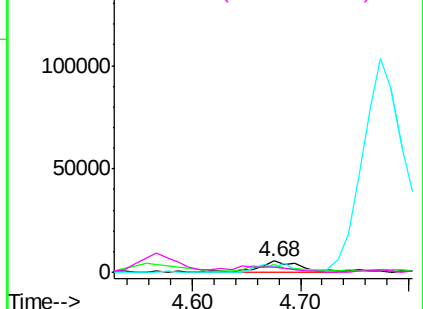
Abundance

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

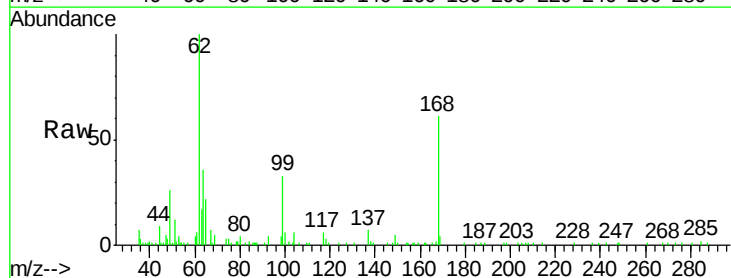
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#41
1,2-Dichloroethane
Concen: 3.77 ug/l
RT: 4.87 min Scan# 440
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

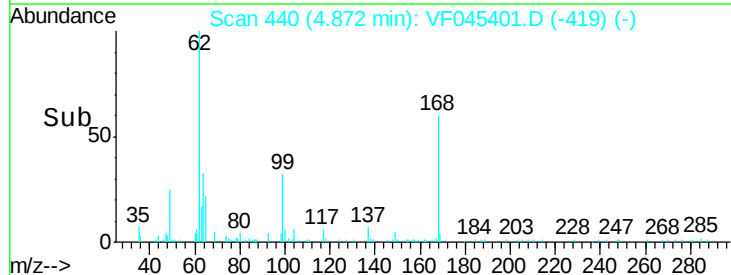
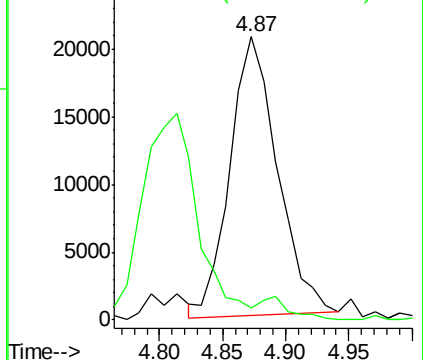
Tgt Ion:	62	Resp:	53576
Ion	Ratio	Lower	Upper
62	100		
98	4.1	0.0	17.0

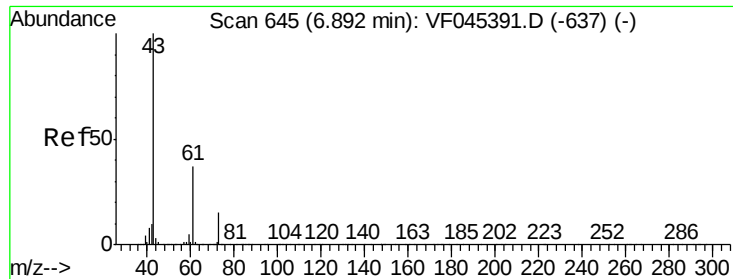


Abundance

Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#42

Isopropyl Acetate

Concen: 3.99 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.02 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

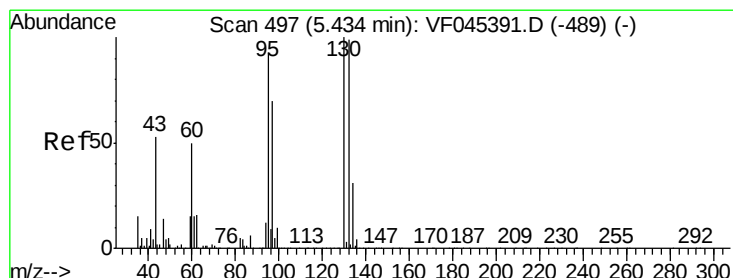
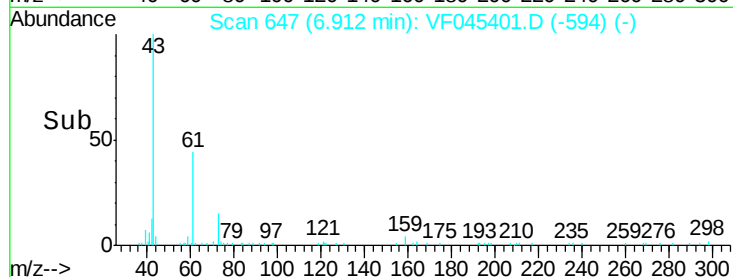
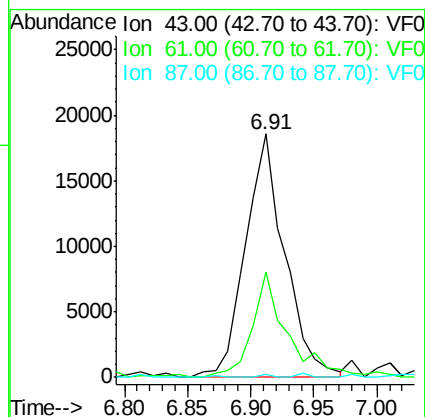
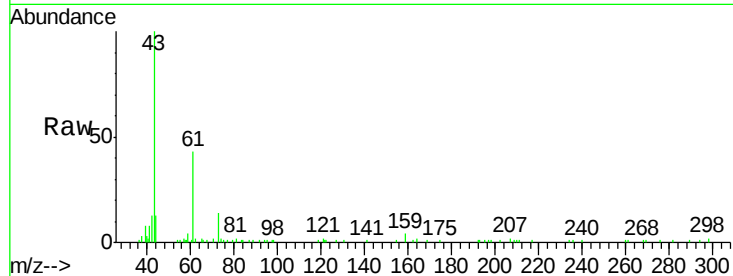
Tgt Ion: 43 Resp: 40106

Ion Ratio Lower Upper

43 100

61 43.2 29.8 44.6

87 1.4 0.2 0.2#



#43

Trichloroethene

Concen: 4.16 ug/l

RT: 5.44 min Scan# 498

Delta R.T. 0.01 min

Lab File: VF045401.D

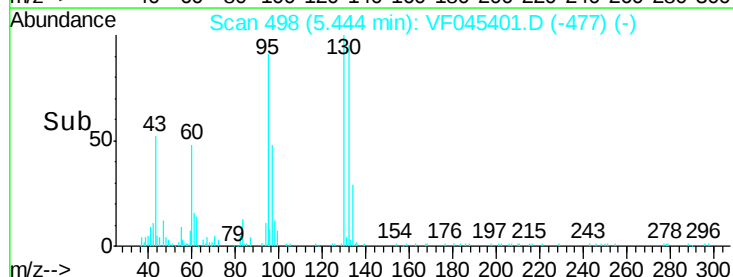
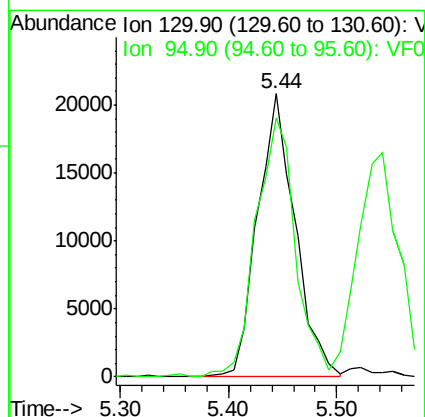
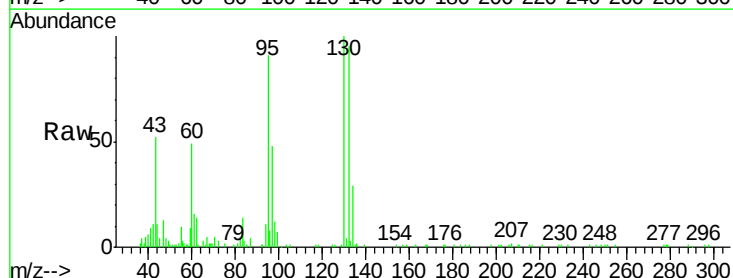
Acq: 16 Sep 2015 21:04

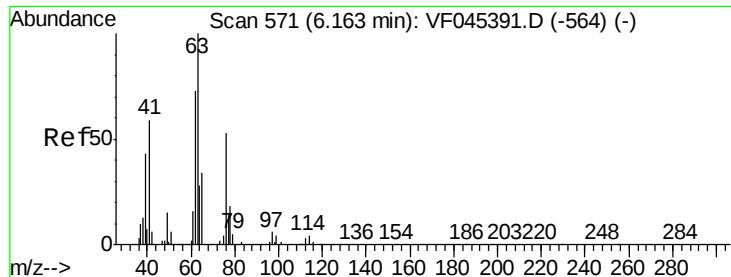
Tgt Ion: 130 Resp: 50073

Ion Ratio Lower Upper

130 100

95 91.3 0.0 192.2





#44

1,2-Dichloropropane

Concen: 4.13 ug/l

RT: 6.17 min Scan# 572

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

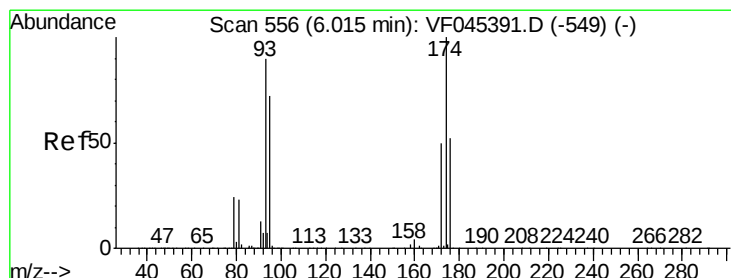
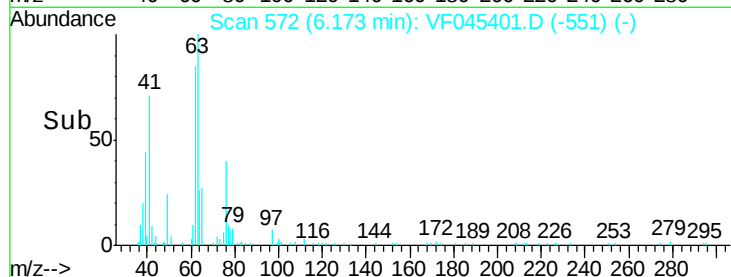
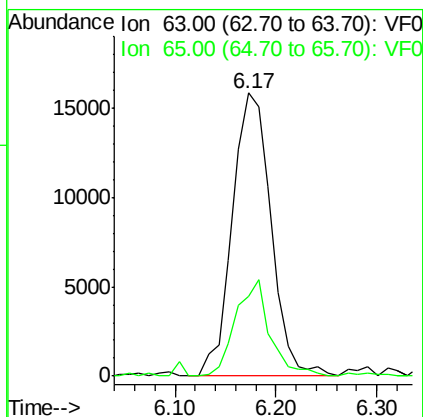
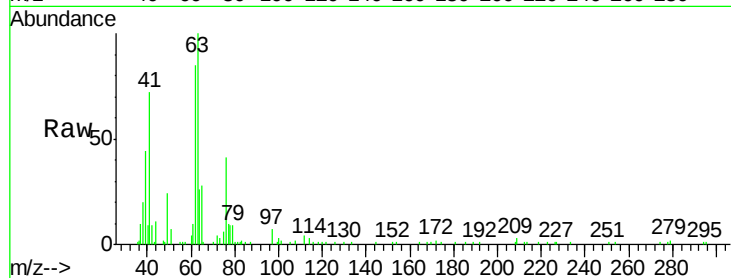
LOD-SOIL2015-01

Tgt Ion: 63 Resp: 42395

Ion Ratio Lower Upper

63 100

65 28.3 25.6 38.4



#45

Dibromomethane

Concen: 3.82 ug/l

RT: 6.02 min Scan# 556

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

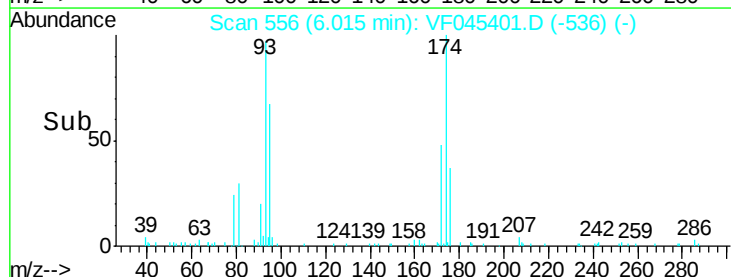
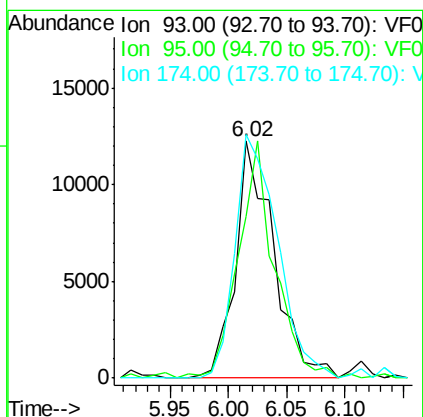
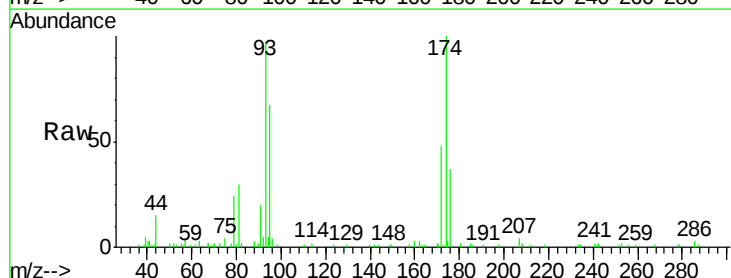
Tgt Ion: 93 Resp: 27924

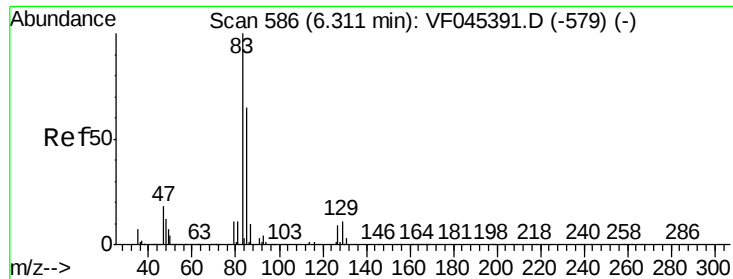
Ion Ratio Lower Upper

93 100

95 68.5 69.8 104.6#

174 102.7 90.5 135.7

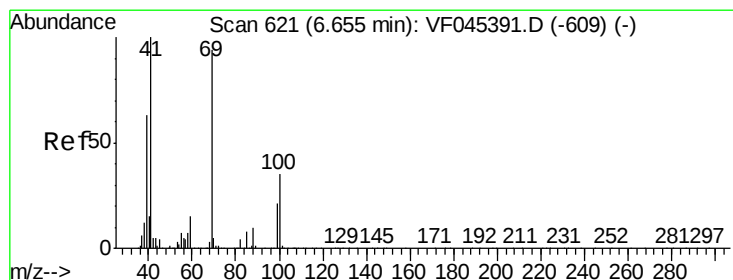
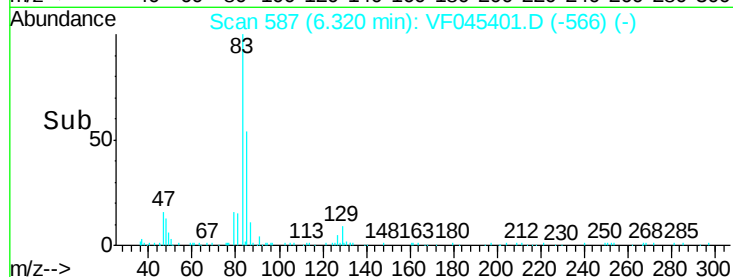
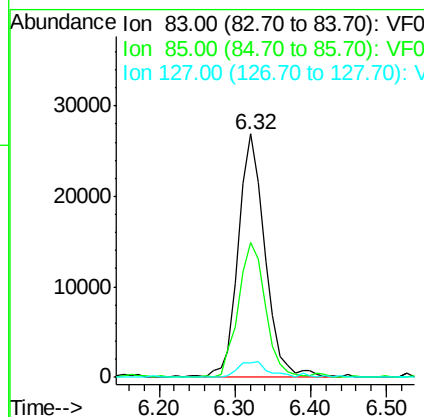
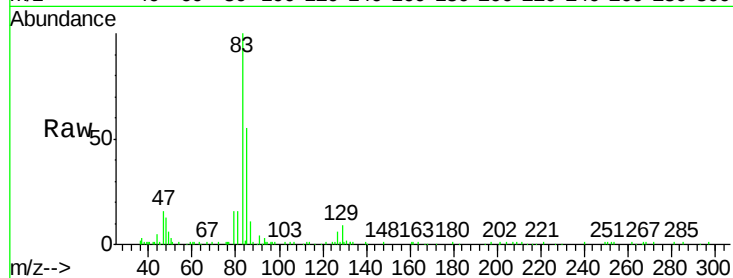




#46
Bromodichloromethane
Concen: 4.01 ug/l
RT: 6.32 min Scan# 587
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

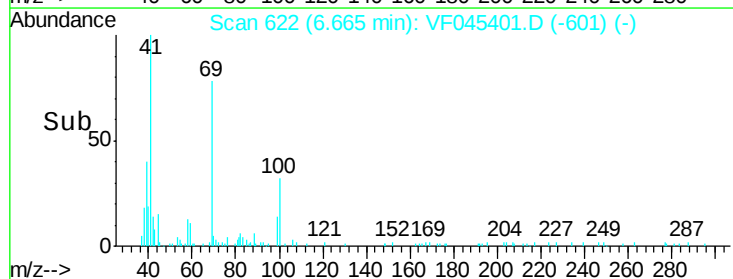
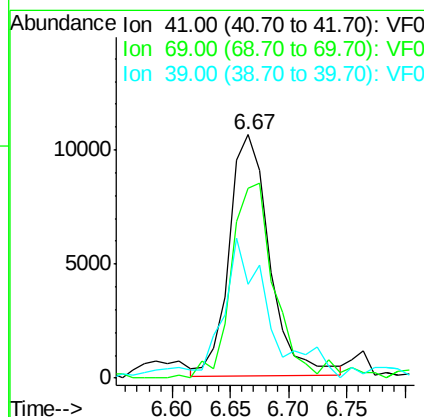
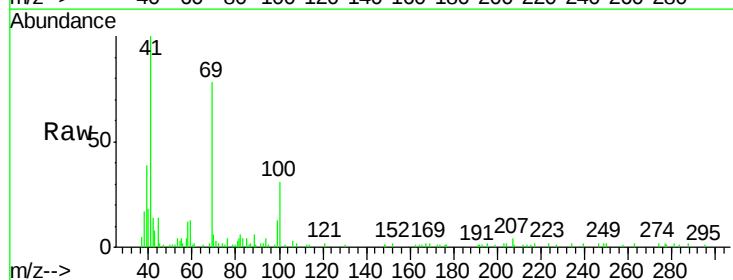
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

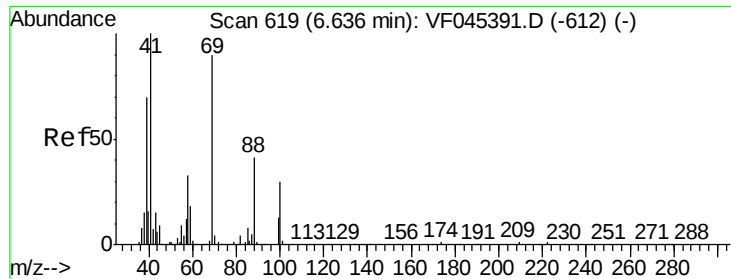
Tgt Ion: 83 Resp: 65529
Ion Ratio Lower Upper
83 100
85 55.2 50.6 75.8
127 6.0 7.7 11.5#



#47
Methyl methacrylate
Concen: 4.21 ug/l
RT: 6.67 min Scan# 622
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 41 Resp: 25688
Ion Ratio Lower Upper
41 100
69 77.7 63.3 94.9
39 38.8 48.9 73.3#

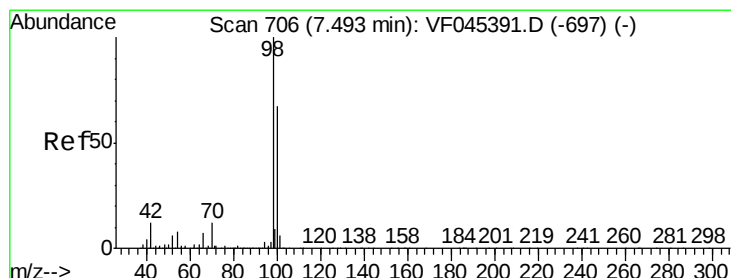
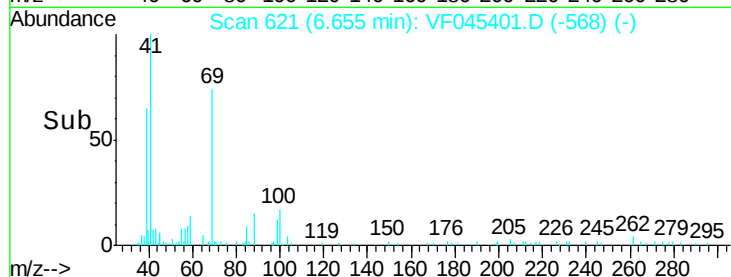
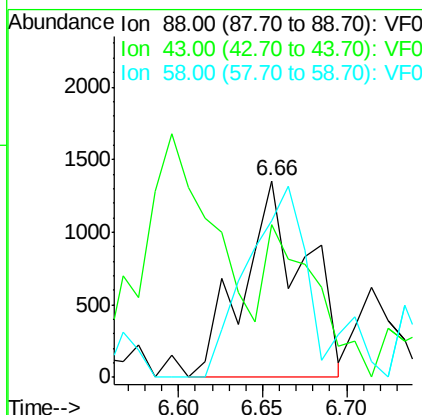
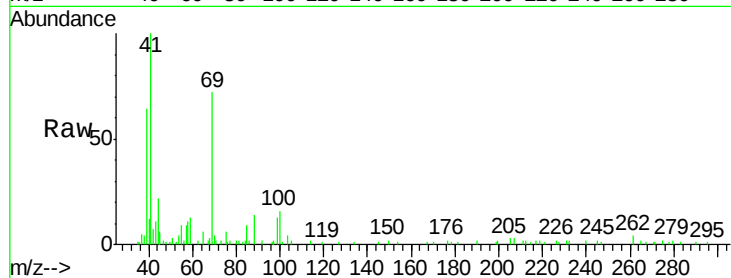




#48
 1,4-Dioxane
 Concen: 47.22 ug/l
 RT: 6.66 min Scan# 621
 Delta R.T. 0.02 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

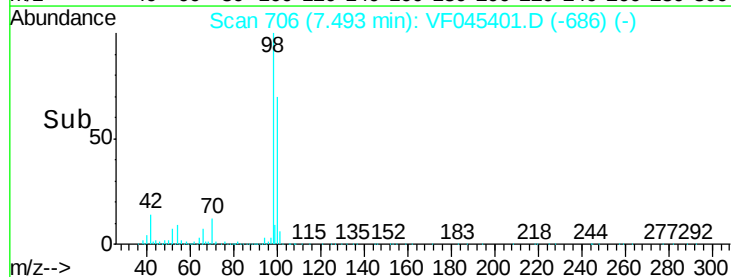
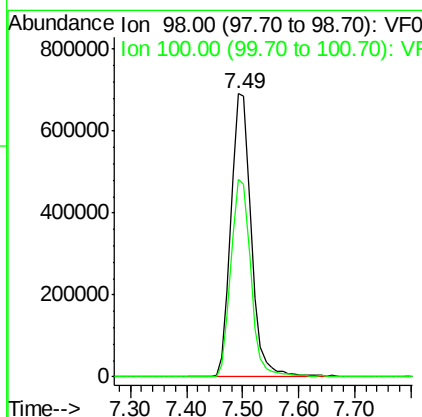
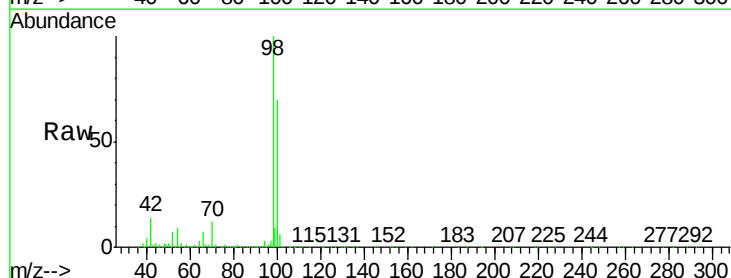
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

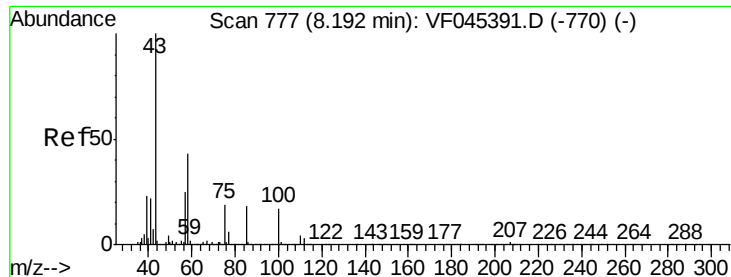
Tgt Ion: 88 Resp: 3449
 Ion Ratio Lower Upper
 88 100
 43 77.8 34.5 51.7#
 58 79.8 46.5 69.7#



#49
 Toluene-d8
 Concen: 48.12 ug/l
 RT: 7.49 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion: 98 Resp: 1744591
 Ion Ratio Lower Upper
 98 100
 100 69.9 54.4 81.6





#50

4-Methyl-2-Pentanone

Concen: 22.17 ug/l

RT: 8.20 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

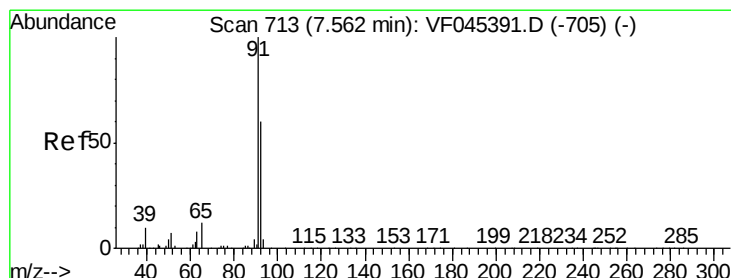
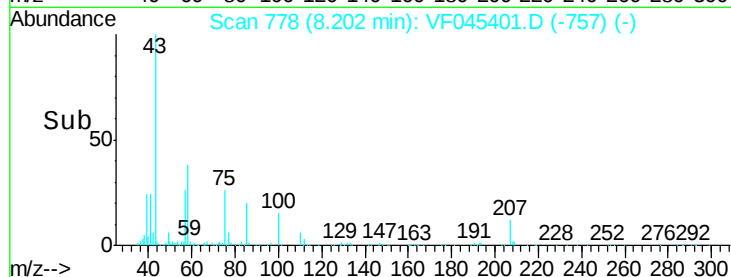
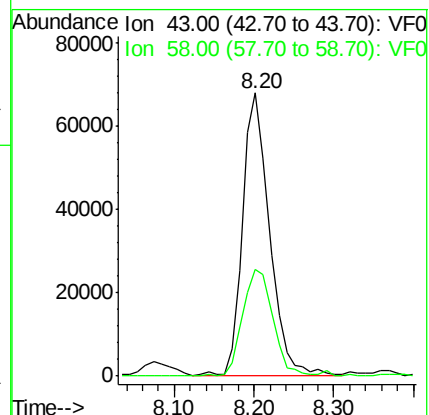
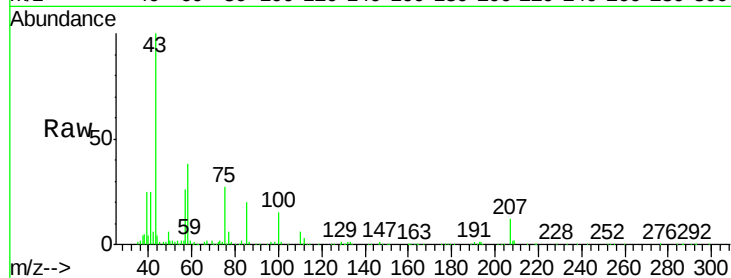
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 158407

Ion Ratio Lower Upper

43 100

58 37.6 33.6 50.4



#51

Toluene

Concen: 4.34 ug/l

RT: 7.57 min Scan# 714

Delta R.T. 0.01 min

Lab File: VF045401.D

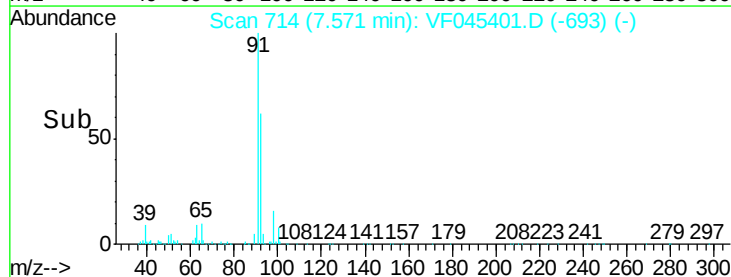
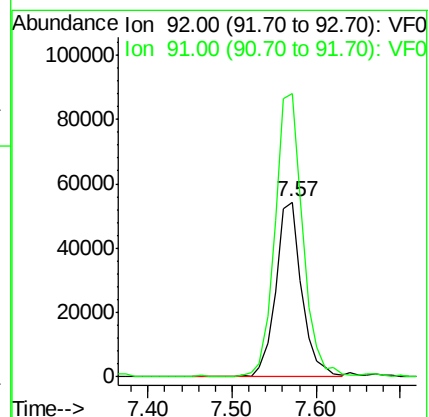
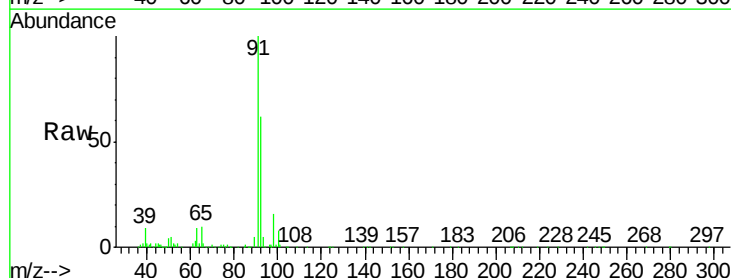
Acq: 16 Sep 2015 21:04

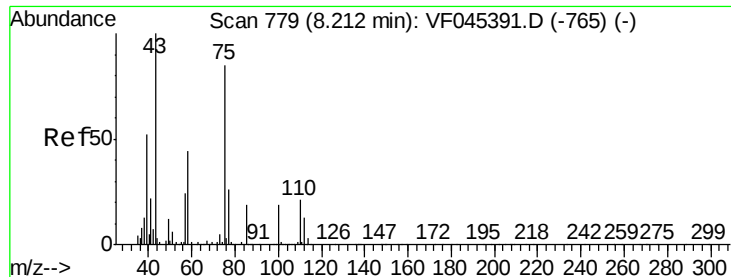
Tgt Ion: 92 Resp: 117903

Ion Ratio Lower Upper

92 100

91 162.0 133.4 200.0





#52

t-1,3-Dichloropropene

Concen: 4.54 ug/l

RT: 8.21 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

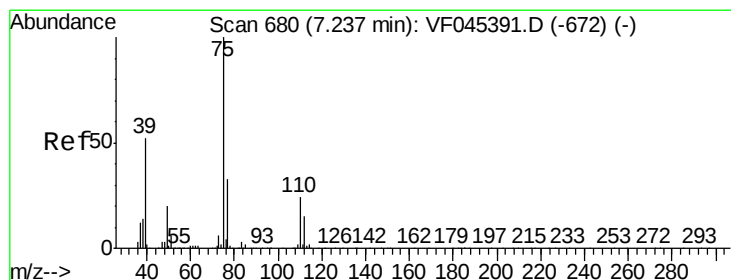
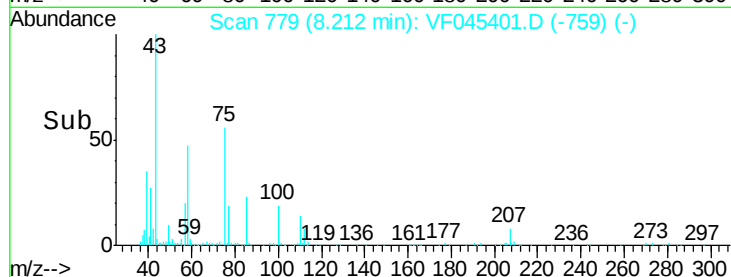
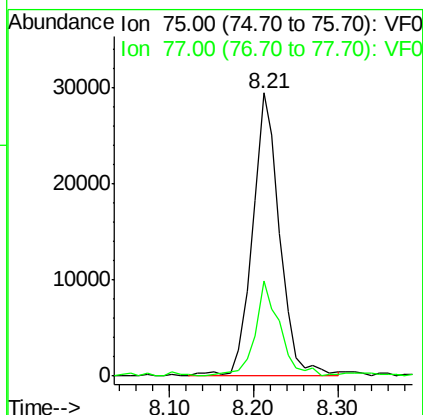
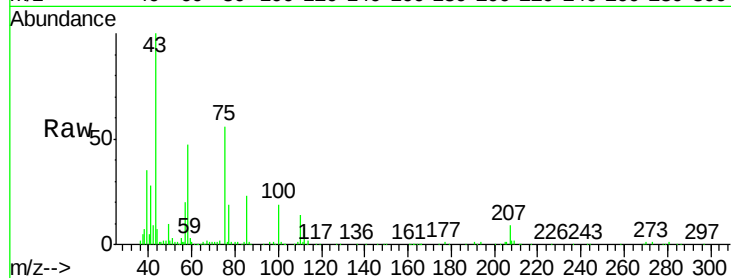
LOD-SOIL2015-01

Tgt Ion: 75 Resp: 66672

Ion Ratio Lower Upper

75 100

77 33.6 28.1 42.1



#53

cis-1,3-Dichloropropene

Concen: 4.07 ug/l

RT: 7.24 min Scan# 680

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

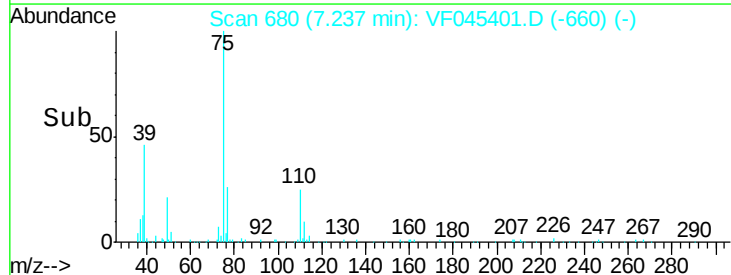
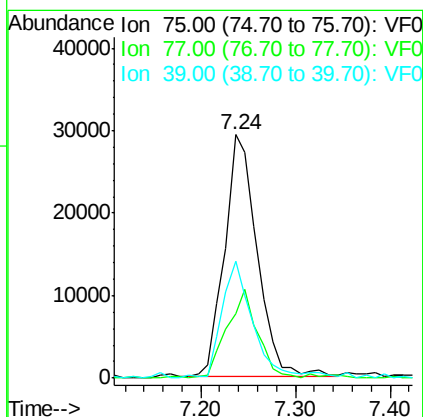
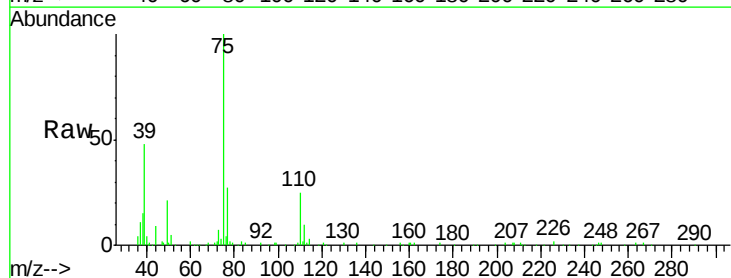
Tgt Ion: 75 Resp: 70682

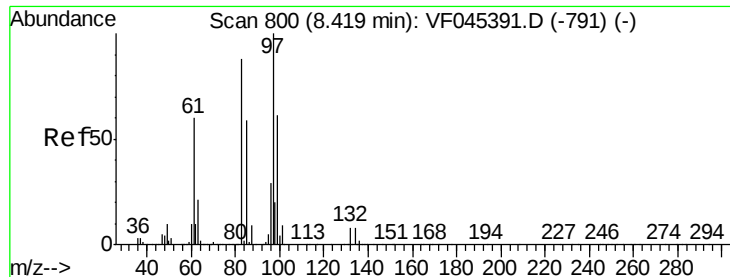
Ion Ratio Lower Upper

75 100

77 26.6 25.5 38.3

39 48.1 41.6 62.4





#54

1,1,2-Trichloroethane

Concen: 4.31 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 97 Resp: 39608

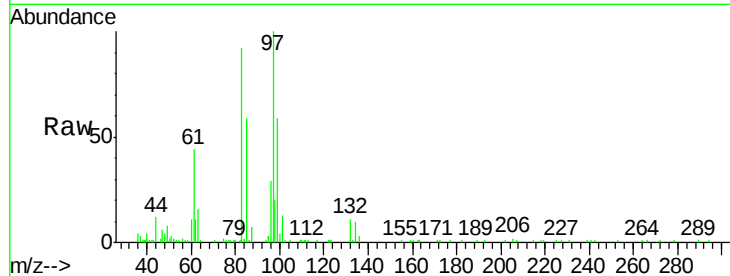
Ion Ratio Lower Upper

97 100

83 91.6 70.1 105.1

85 58.6 47.4 71.2

99 59.0 50.6 75.8

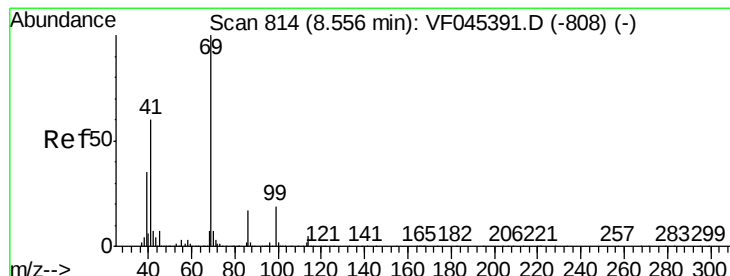
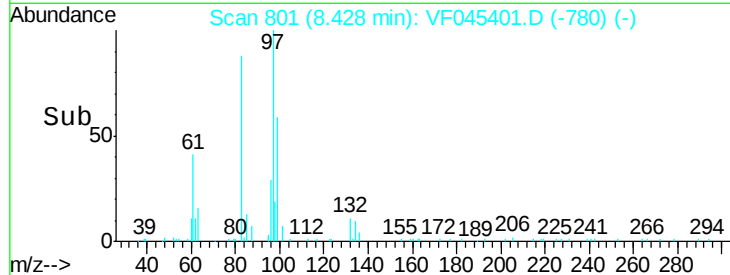
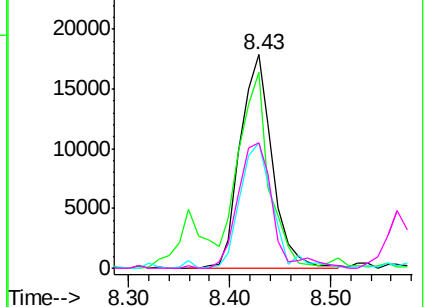


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 3.58 ug/l

RT: 8.57 min Scan# 815

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

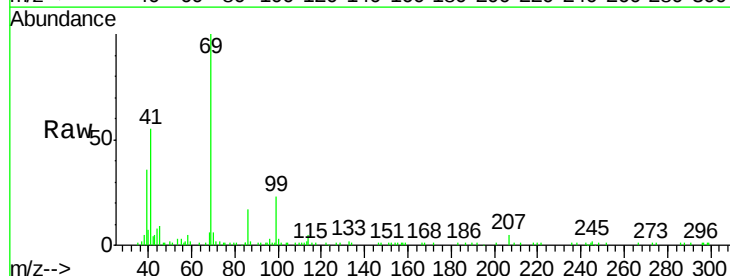
Tgt Ion: 69 Resp: 42733

Ion Ratio Lower Upper

69 100

41 55.1 51.0 76.4

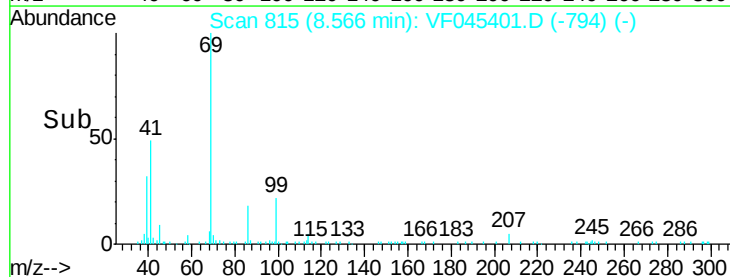
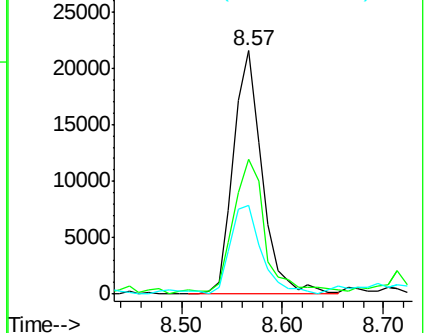
39 36.5 29.1 43.7

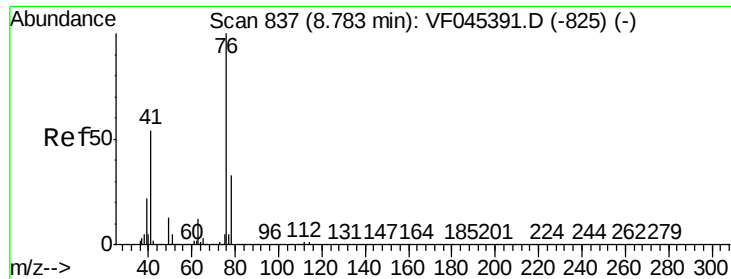


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#56

1,3-Dichloropropane

Concen: 4.46 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

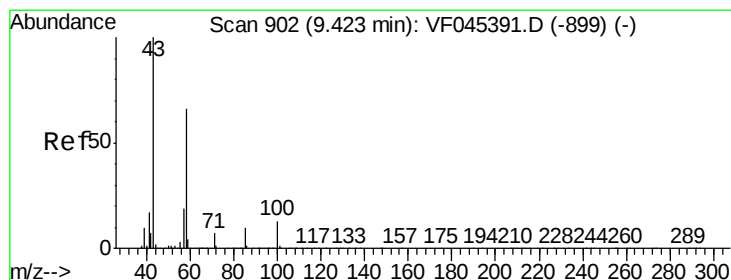
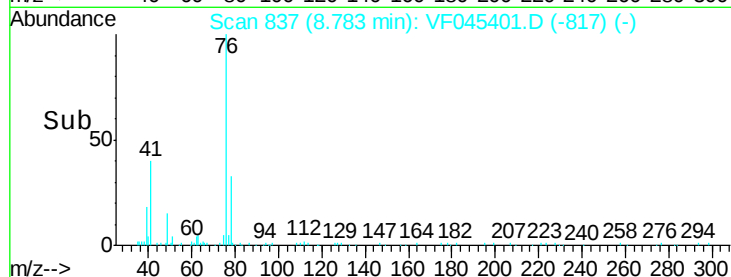
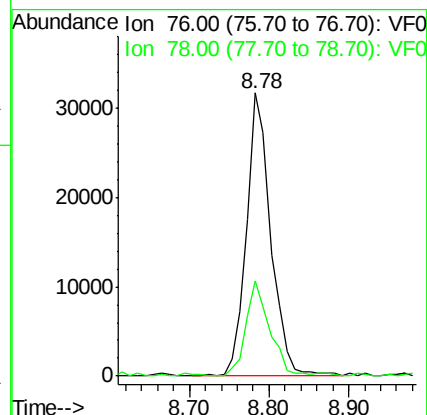
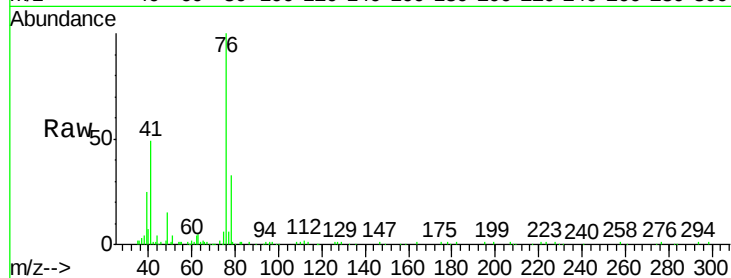
LOD-SOIL2015-01

Tgt Ion: 76 Resp: 66849

Ion Ratio Lower Upper

76 100

78 33.4 26.1 39.1



#58

2-Hexanone

Concen: 20.53 ug/l

RT: 9.43 min Scan# 903

Delta R.T. 0.01 min

Lab File: VF045401.D

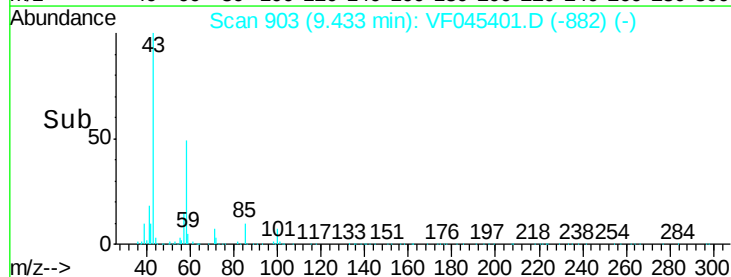
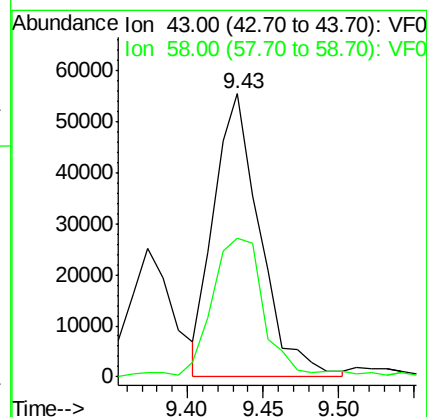
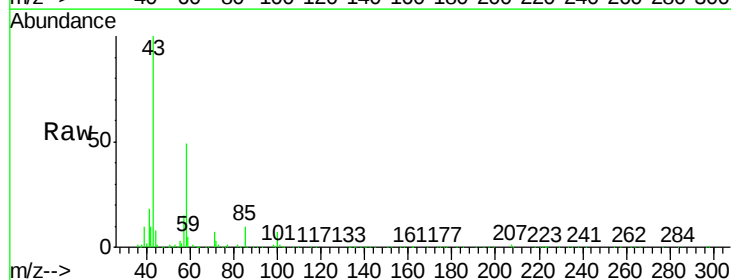
Acq: 16 Sep 2015 21:04

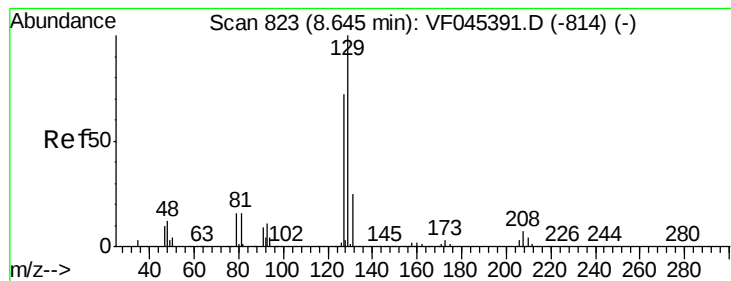
Tgt Ion: 43 Resp: 116739

Ion Ratio Lower Upper

43 100

58 49.0 28.8 86.5





#59

Dibromochloromethane

Concen: 3.27 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

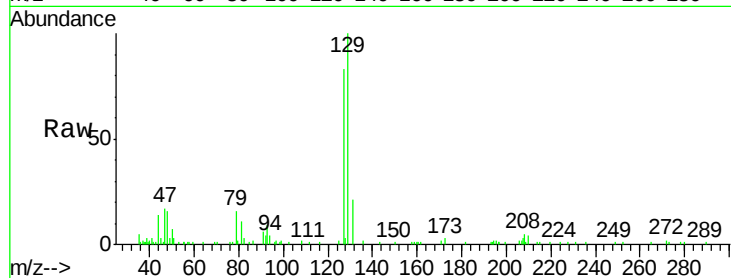
LOD-SOIL2015-01

Tgt Ion:129 Resp: 42619

Ion Ratio Lower Upper

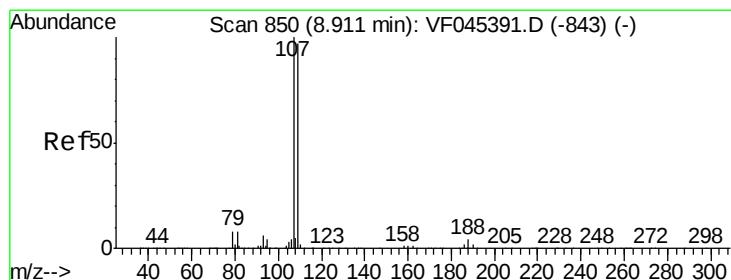
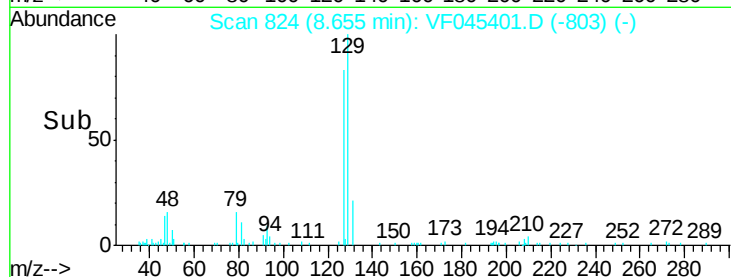
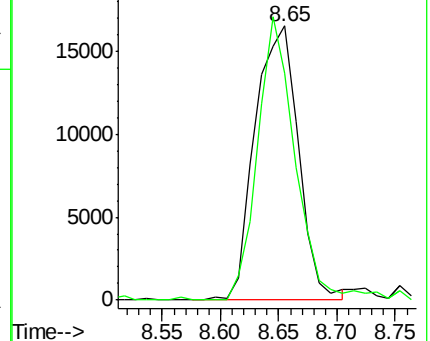
129 100

127 82.7 38.2 114.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#60

1,2-Dibromoethane

Concen: 4.25 ug/l

RT: 8.92 min Scan# 851

Delta R.T. 0.01 min

Lab File: VF045401.D

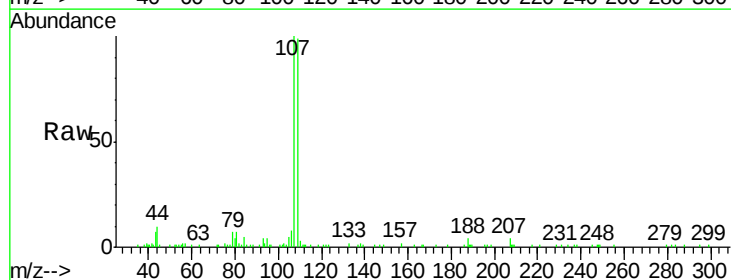
Acq: 16 Sep 2015 21:04

Tgt Ion:107 Resp: 44268

Ion Ratio Lower Upper

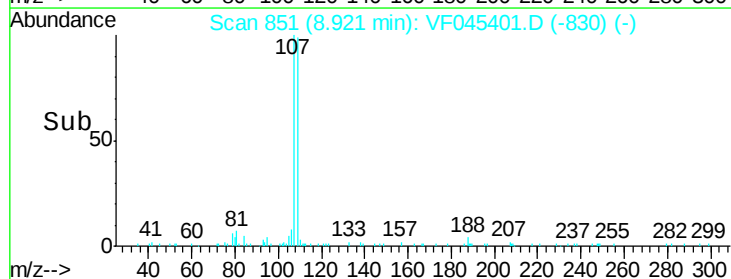
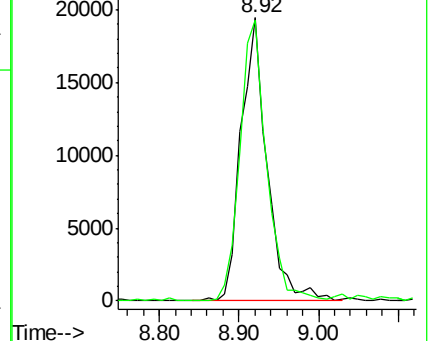
107 100

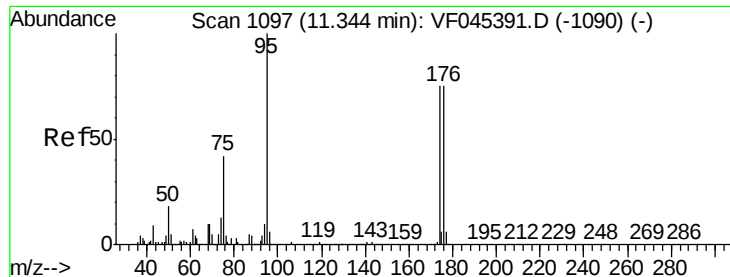
109 99.2 79.4 119.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#61

4-Bromofluorobenzene

Concen: 47.37 ug/l

RT: 11.35 min Scan# 1098

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

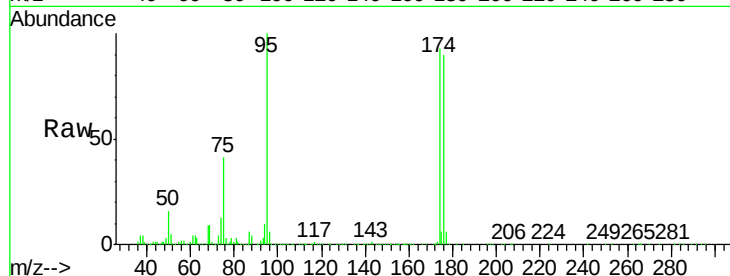
Tgt Ion: 95 Resp: 825452

Ion Ratio Lower Upper

95 100

174 93.4 0.0 177.8

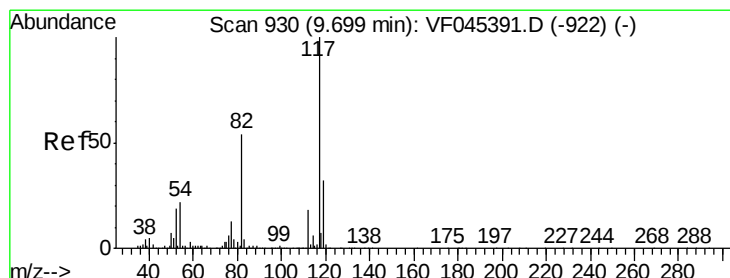
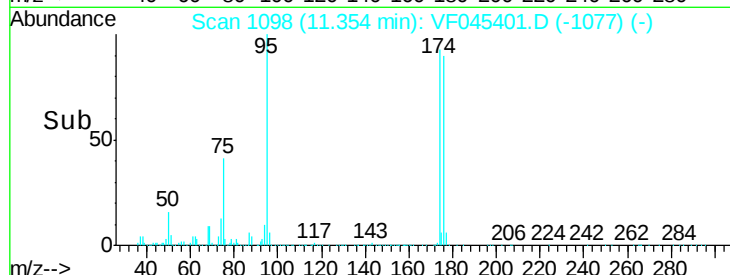
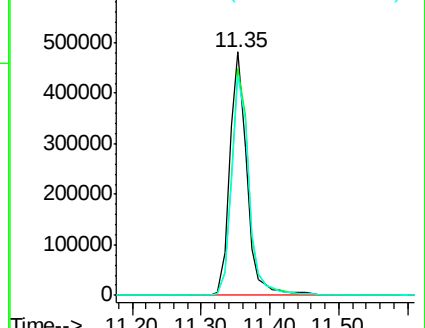
176 90.3 0.0 176.2



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: 9.71 min Scan# 931

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

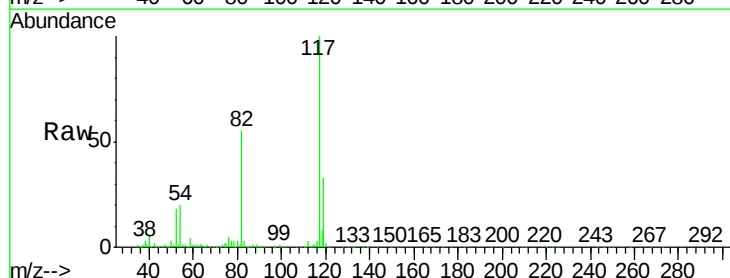
Tgt Ion: 117 Resp: 1525949

Ion Ratio Lower Upper

117 100

82 54.9 45.0 67.6

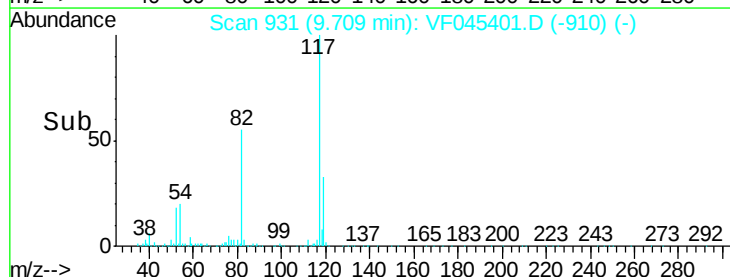
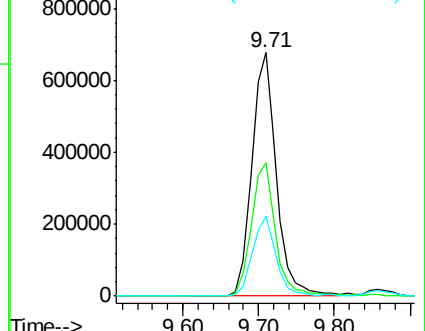
119 32.9 26.2 39.4

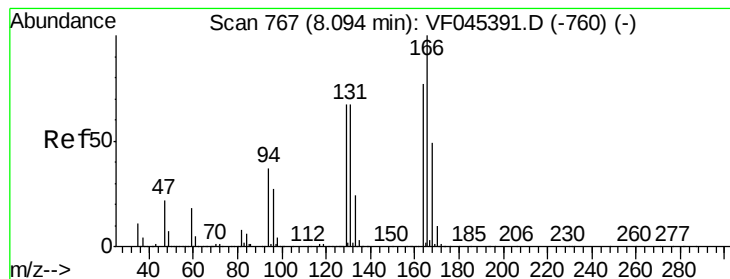


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#63

Tetrachloroethene

Concen: 4.18 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion:164 Resp: 50684

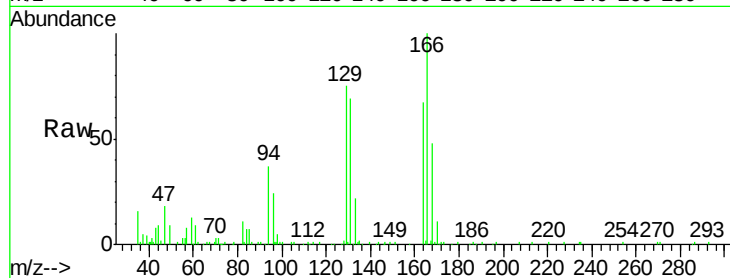
Ion Ratio Lower Upper

164 100

166 150.2 106.0 159.0

129 112.4 69.8 104.6#

131 103.0 68.2 102.4#

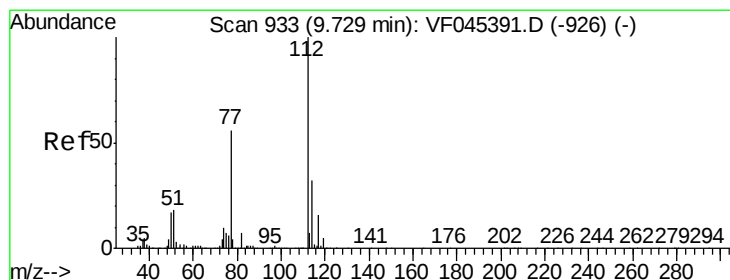
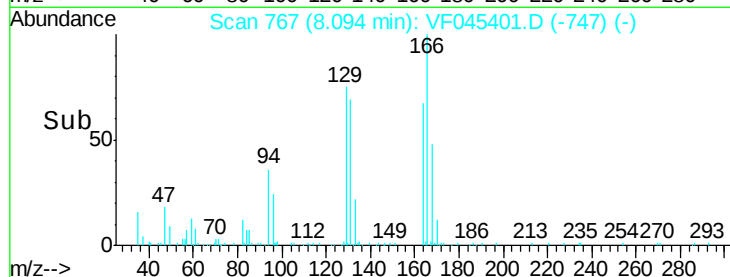
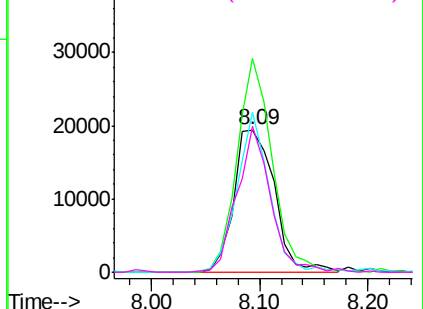


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#64

Chlorobenzene

Concen: 4.49 ug/l

RT: 9.73 min Scan# 933

Delta R.T. 0.00 min

Lab File: VF045401.D

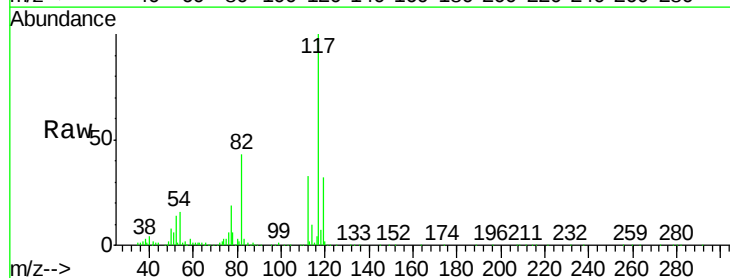
Acq: 16 Sep 2015 21:04

Tgt Ion:112 Resp: 143782

Ion Ratio Lower Upper

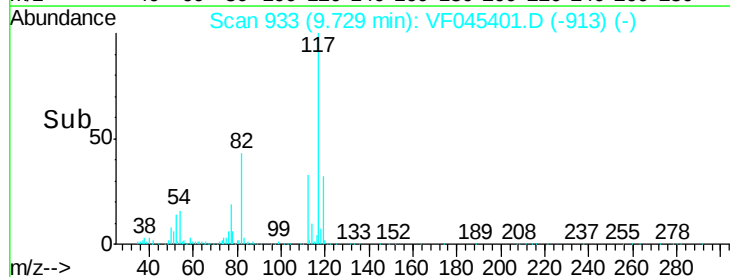
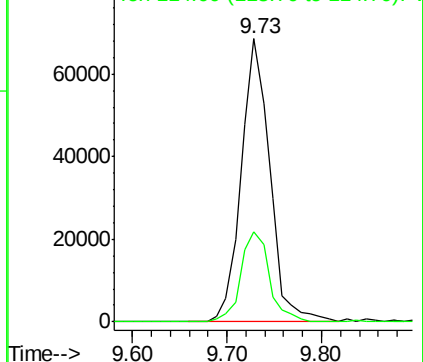
112 100

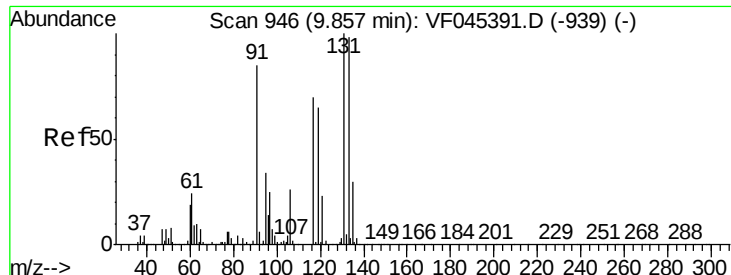
114 31.7 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#65

1,1,1,2-Tetrachloroethane

Concen: 4.06 ug/l

RT: 9.86 min Scan# 946

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

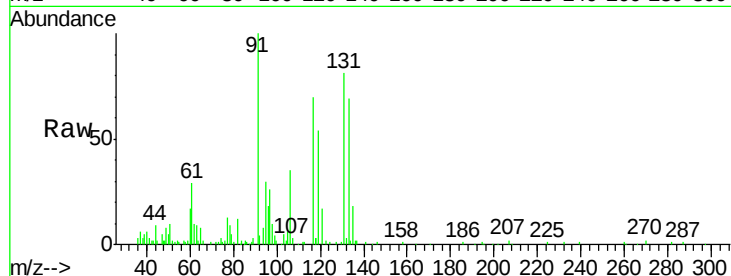
Tgt Ion:131 Resp: 47571

Ion Ratio Lower Upper

131 100

133 85.1 48.1 144.4

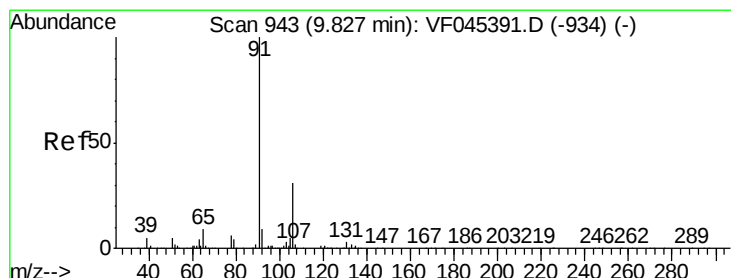
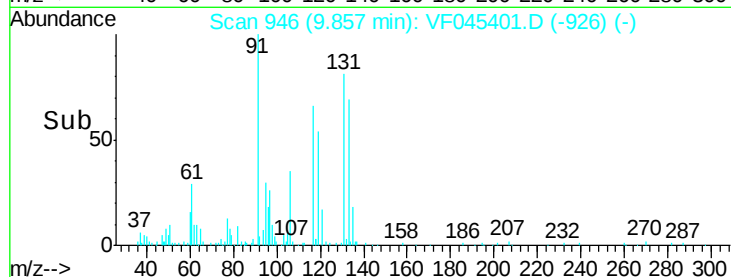
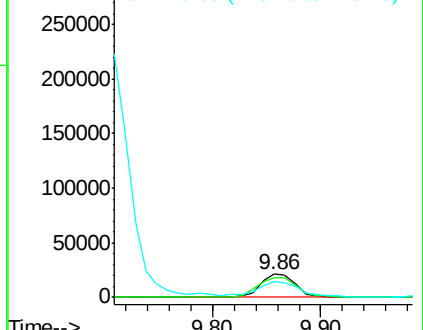
119 67.0 34.8 104.5



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: 4.50 ug/l

RT: 9.84 min Scan# 944

Delta R.T. 0.01 min

Lab File: VF045401.D

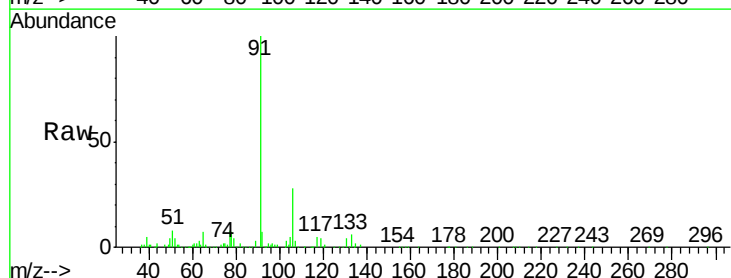
Acq: 16 Sep 2015 21:04

Tgt Ion: 91 Resp: 249627

Ion Ratio Lower Upper

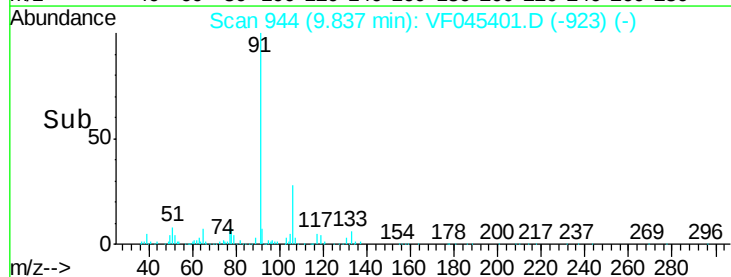
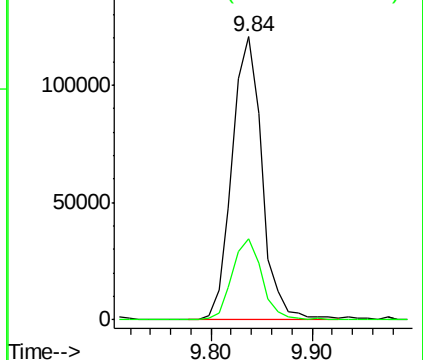
91 100

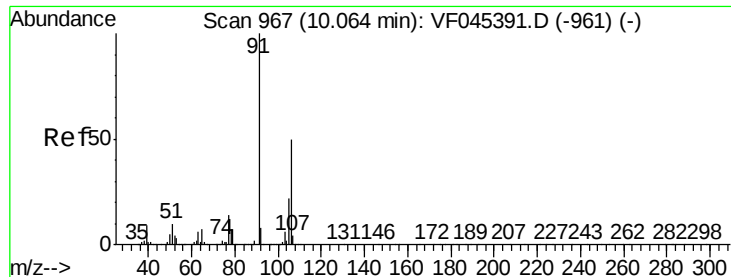
106 28.5 23.6 35.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

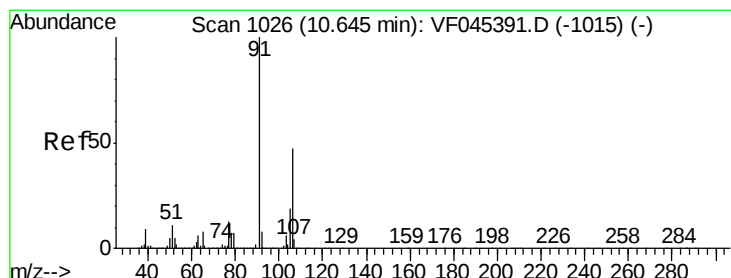
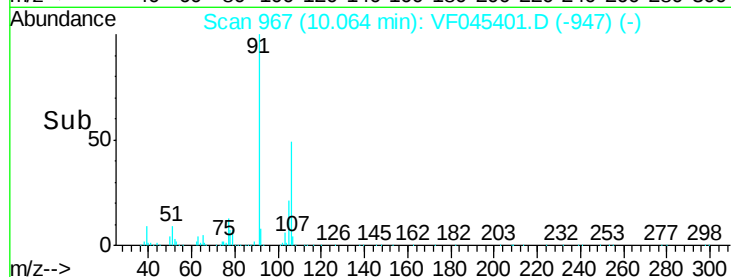
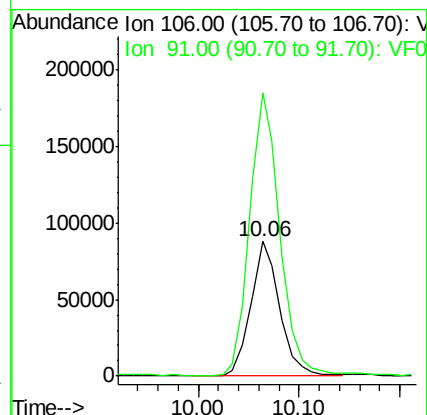
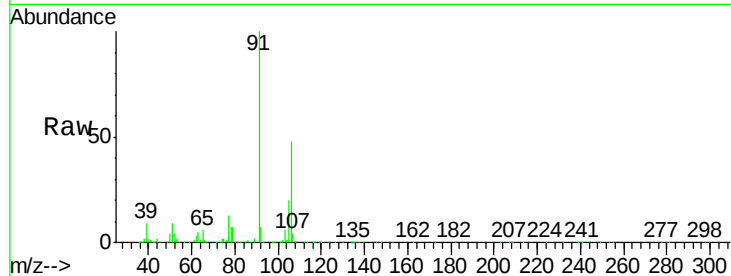




#67
m/p-Xylenes
Concen: 8.86 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

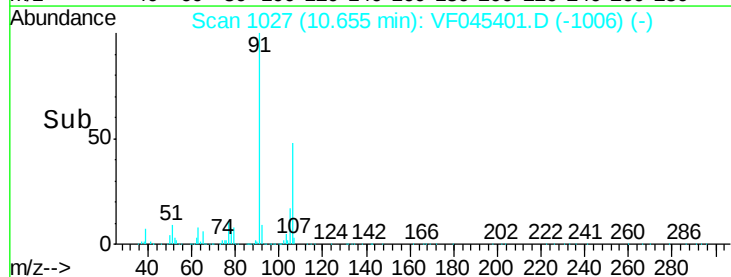
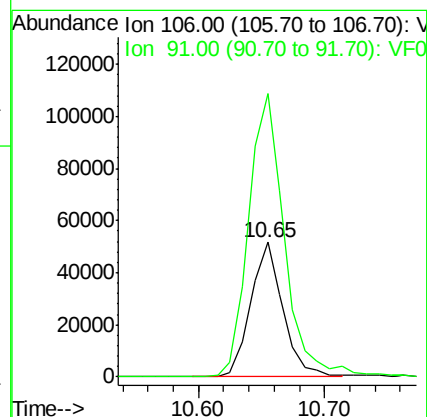
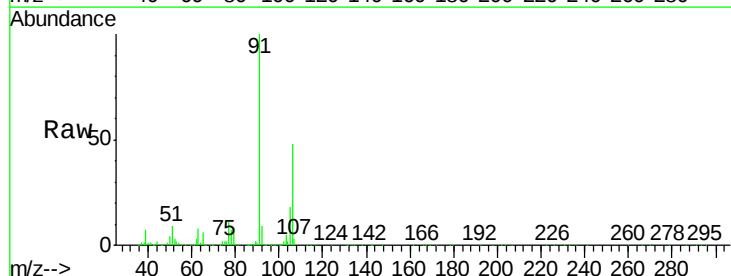
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

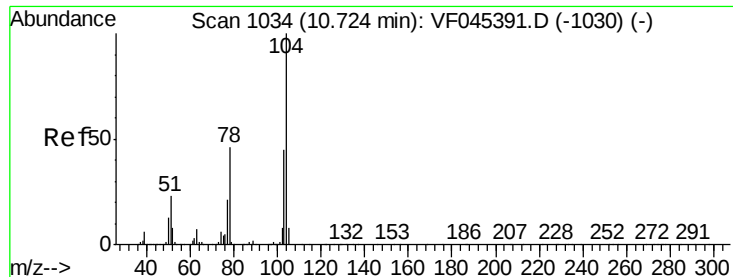
Tgt Ion:106 Resp: 176231
Ion Ratio Lower Upper
106 100
91 210.1 166.1 249.1



#68
o-Xylene
Concen: 4.43 ug/l
RT: 10.65 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion:106 Resp: 91423
Ion Ratio Lower Upper
106 100
91 209.9 108.1 324.2





#69

Styrene

Concen: 4.35 ug/l

RT: 10.72 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

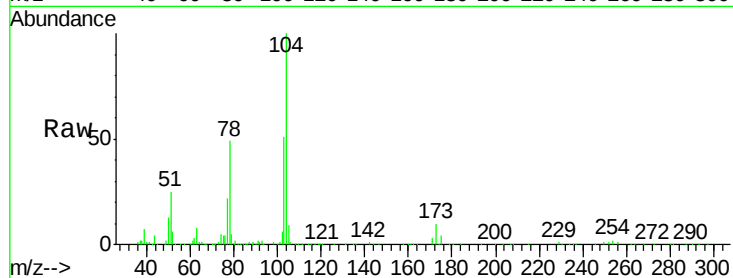
Tgt Ion:104 Resp: 143351

Ion Ratio Lower Upper

104 100

78 48.7 34.2 51.4

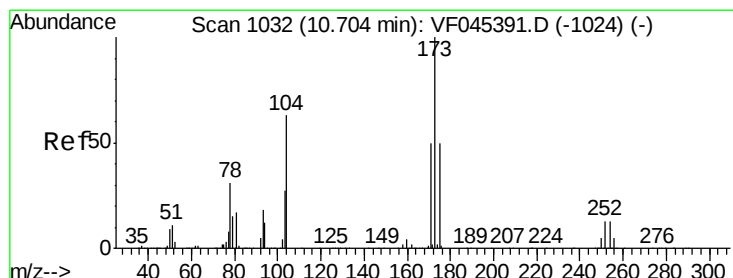
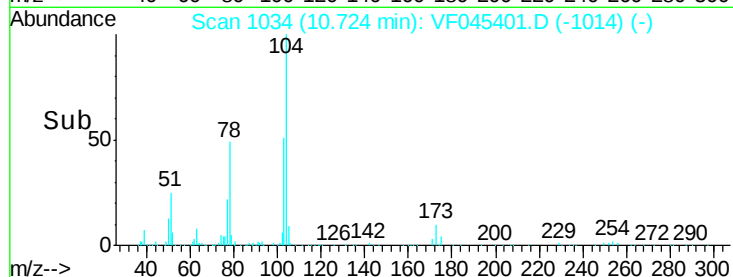
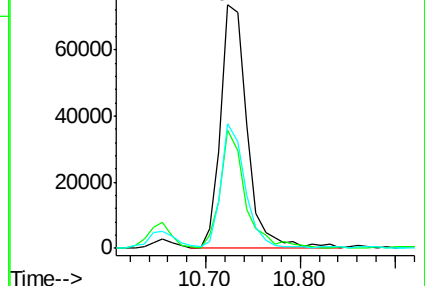
103 51.1 36.7 55.1



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: 3.77 ug/l

RT: 10.70 min Scan# 1032

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

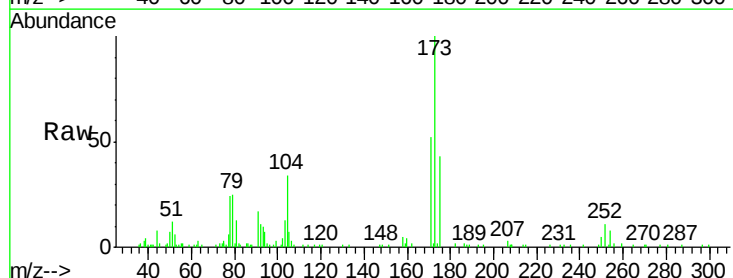
Tgt Ion:173 Resp: 32731

Ion Ratio Lower Upper

173 100

175 42.9 25.7 77.0

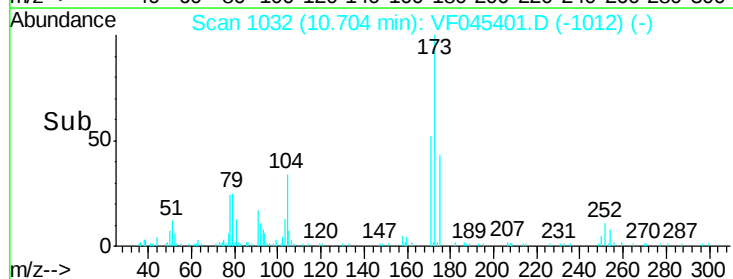
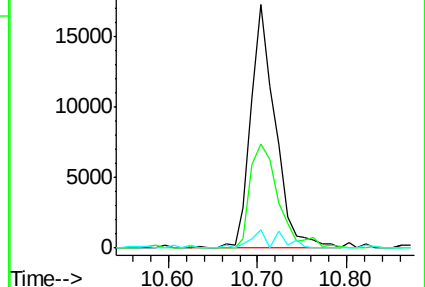
254 7.5 9.8 14.6#

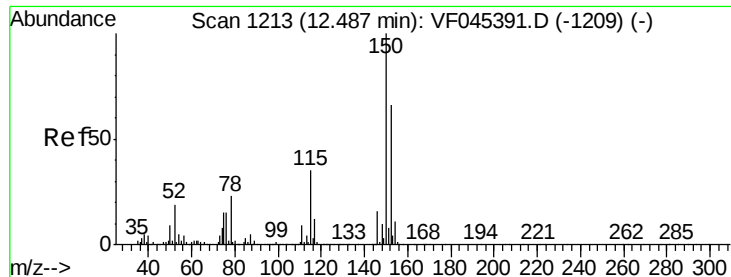


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

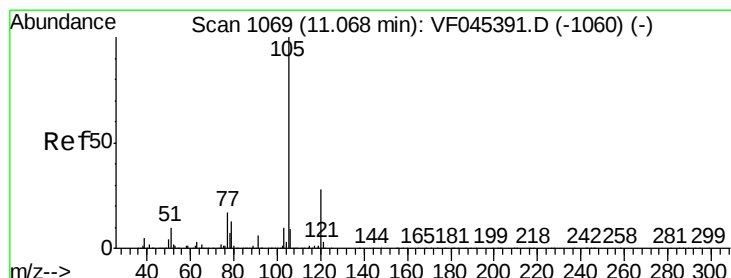
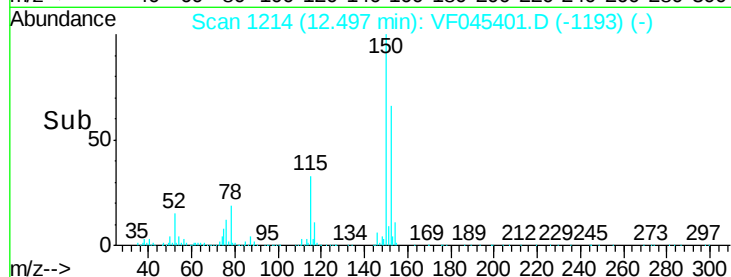
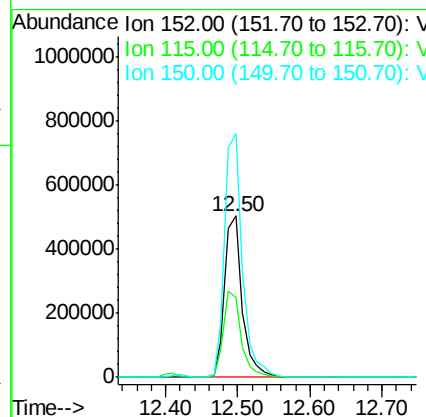
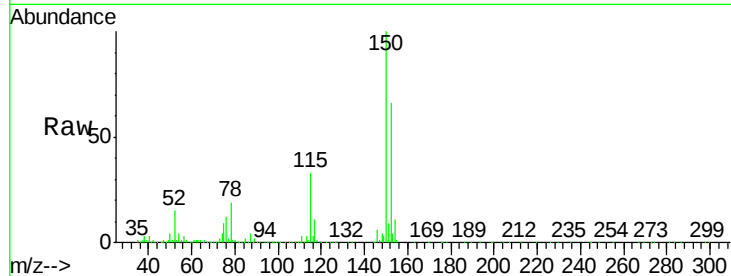




#71
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.50 min Scan# 1214
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

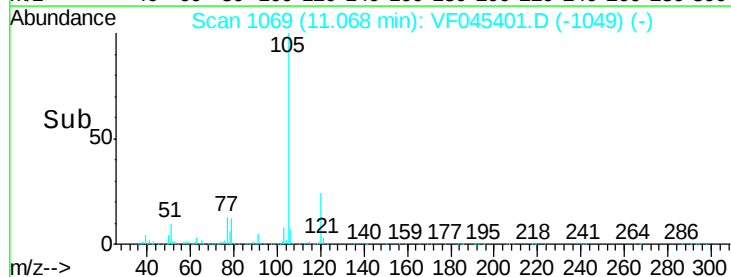
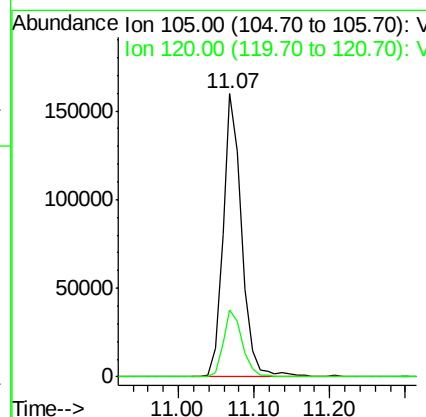
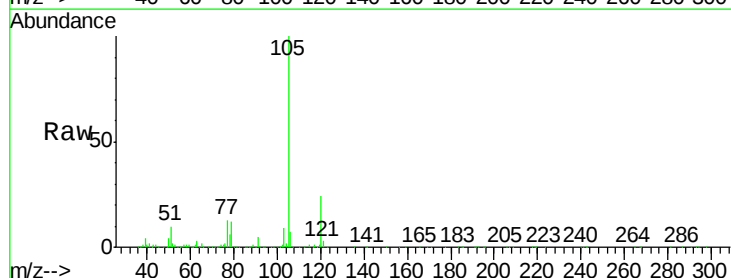
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

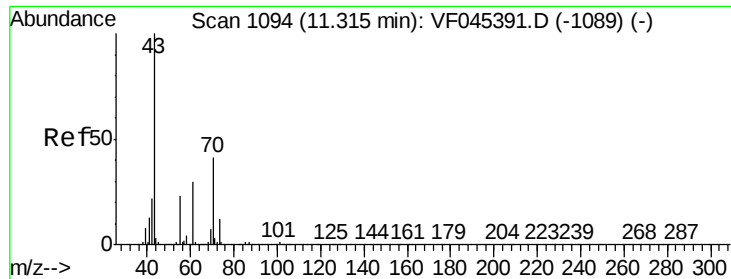
Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.7	28.3	85.0
150	150.6	0.0	324.2



#72
 Isopropylbenzene
 Concen: 4.88 ug/l
 RT: 11.07 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.6	13.0	39.0





#73

N-amyI acetate

Concen: 3.92 ug/l

RT: 11.32 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

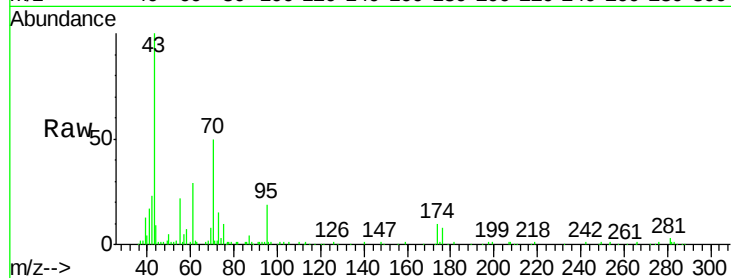
MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 43 Resp: 61150

Ion	Ratio	Lower	Upper
43	100		
70	50.5	30.0	45.0#
55	21.7	16.8	25.2
61	28.5	20.6	30.8



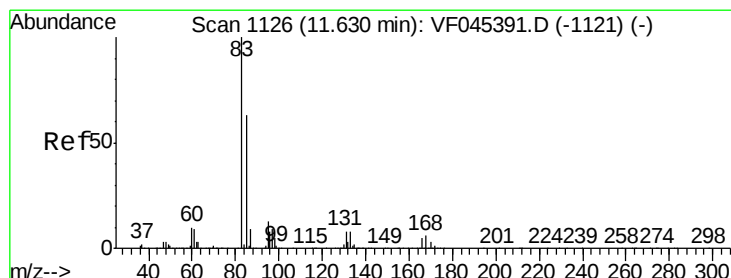
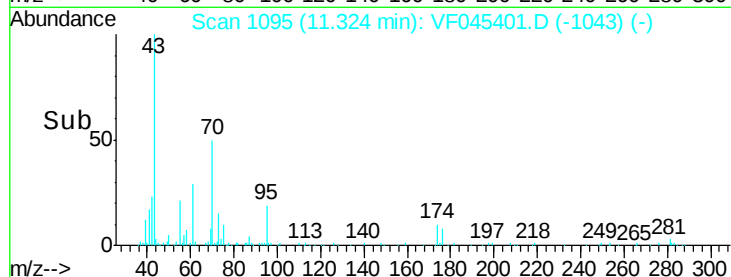
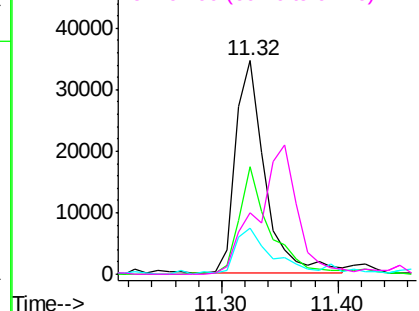
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#74

1,1,2,2-Tetrachloroethane

Concen: 4.56 ug/l

RT: 11.64 min Scan# 1127

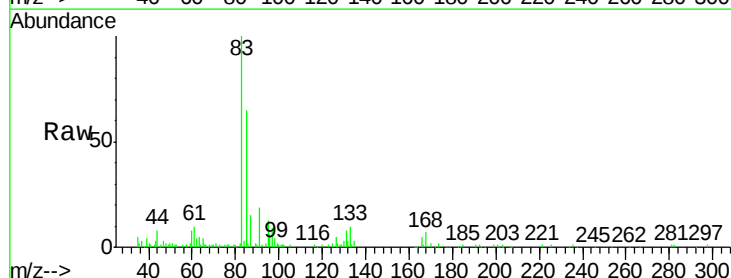
Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Tgt Ion: 83 Resp: 58266

Ion	Ratio	Lower	Upper
83	100		
131	7.7	4.2	12.6
85	65.1	32.5	97.5

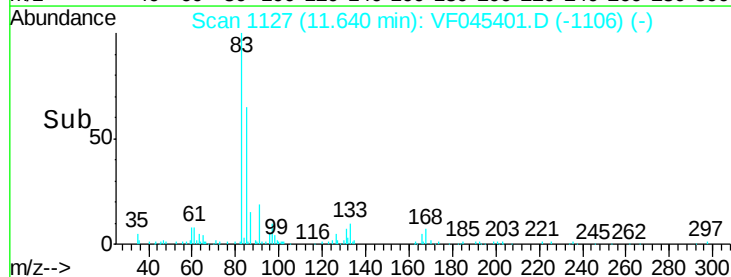
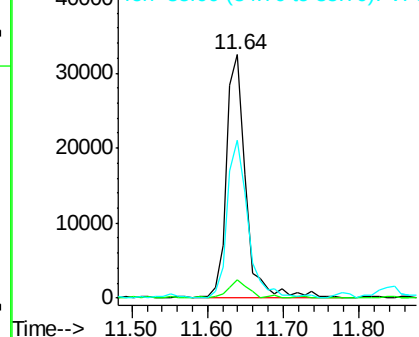


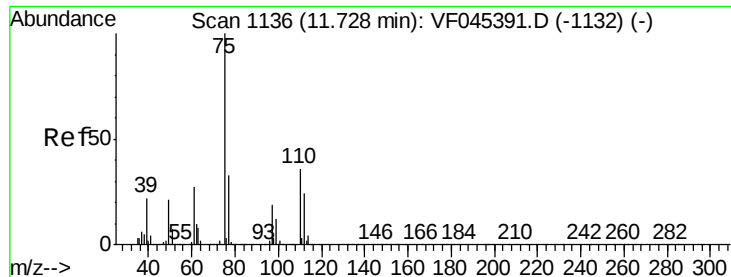
Abundance

Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#75

1,2,3-Trichloropropane

Concen: 4.23 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

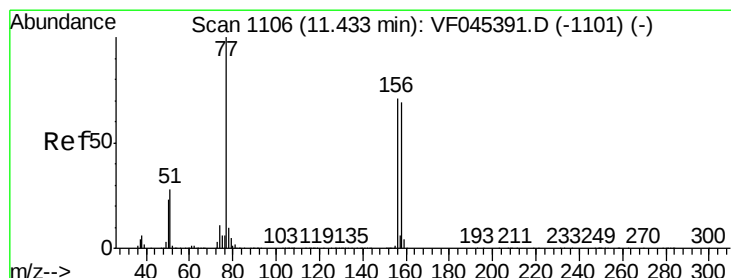
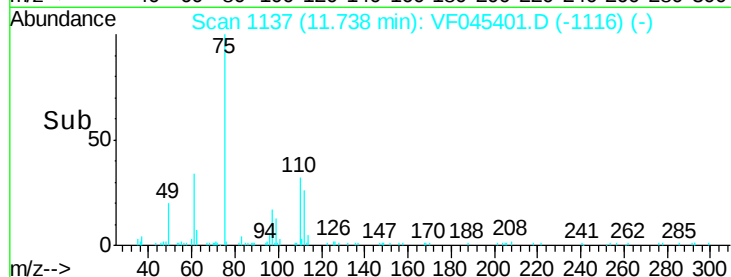
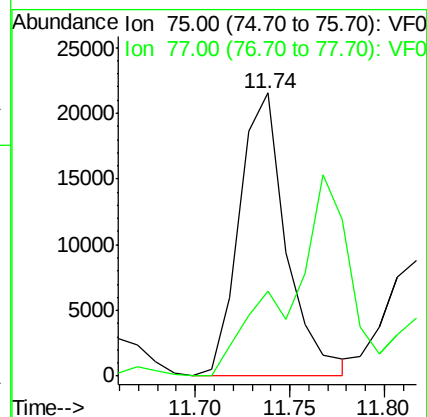
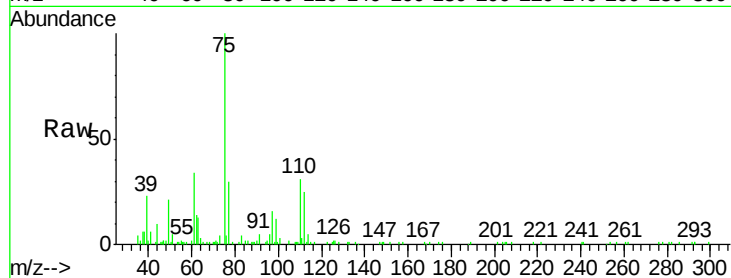
LOD-SOIL2015-01

Tgt Ion: 75 Resp: 37126

Ion Ratio Lower Upper

75 100

77 29.8 15.0 45.1



#76

Bromobenzene

Concen: 4.64 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

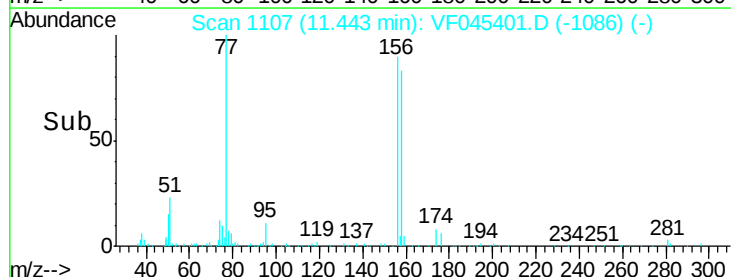
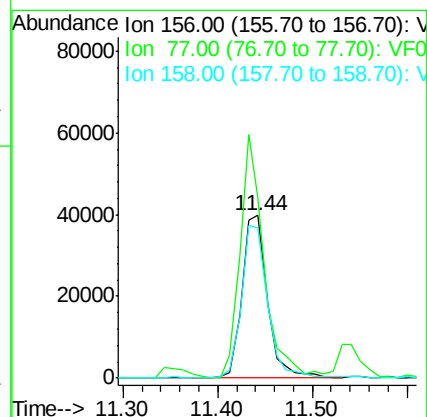
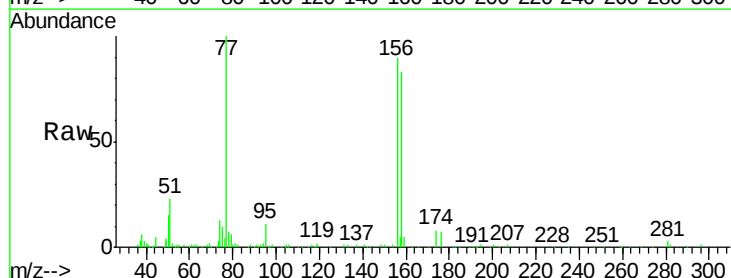
Tgt Ion: 156 Resp: 74137

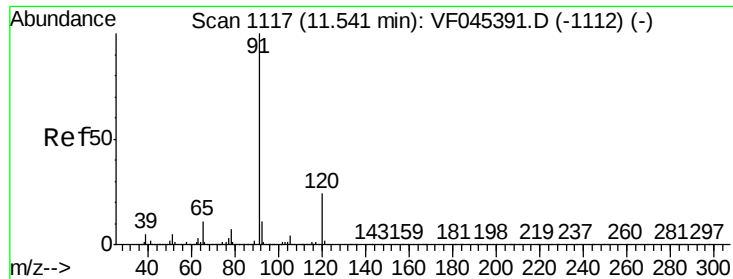
Ion Ratio Lower Upper

156 100

77 111.2 74.8 224.3

158 92.5 49.5 148.7

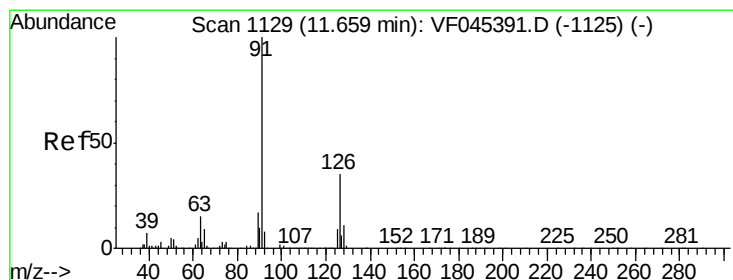
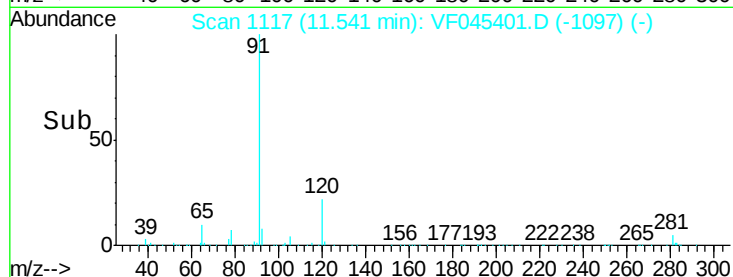
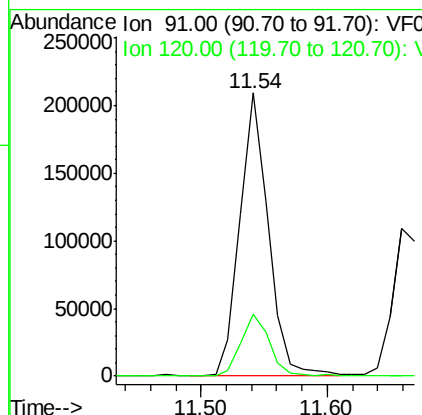
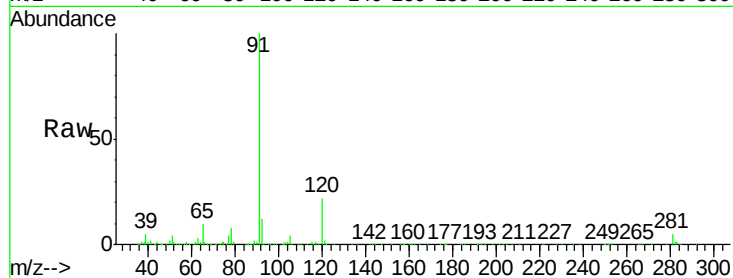




#77
n-propylbenzene
Concen: 4.67 ug/l
RT: 11.54 min Scan# 1117
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

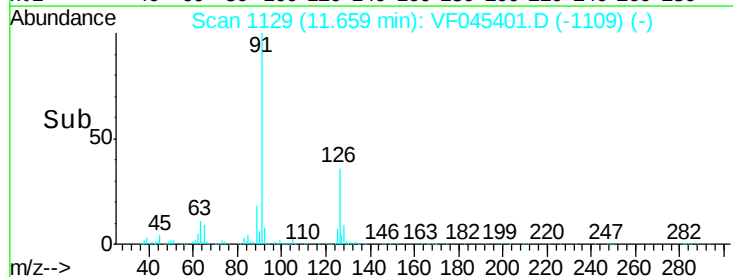
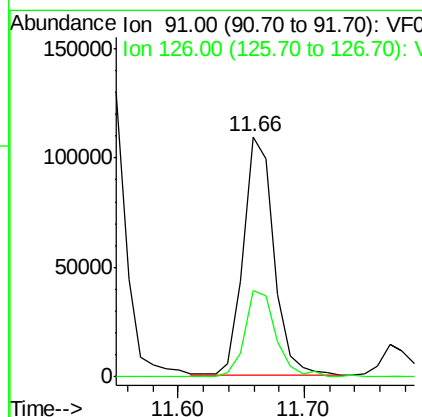
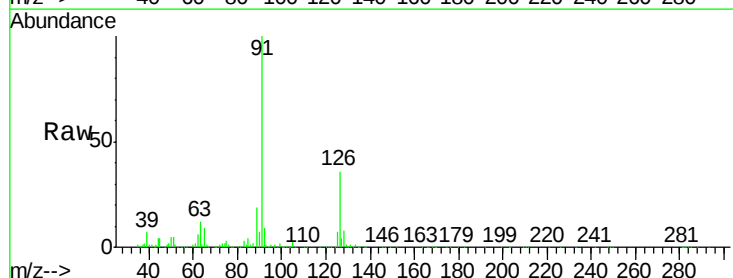
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

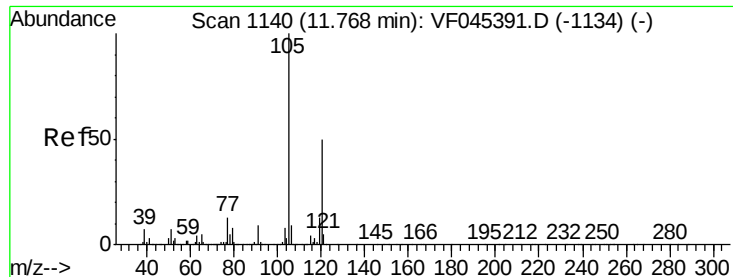
Tgt Ion: 91 Resp: 326358
Ion Ratio Lower Upper
91 100
120 21.8 11.6 34.7



#78
2-Chlorotoluene
Concen: 4.69 ug/l
RT: 11.66 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion: 91 Resp: 183621
Ion Ratio Lower Upper
91 100
126 36.2 16.9 50.7





#79

1,3,5-Trimethylbenzene

Concen: 4.53 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

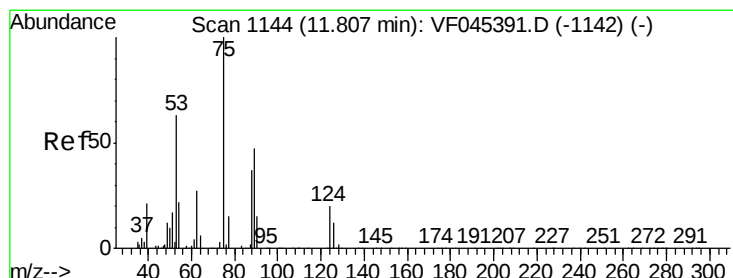
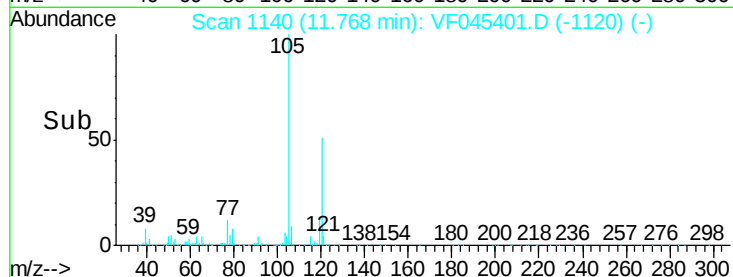
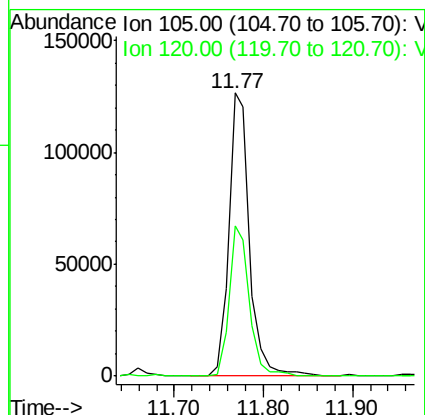
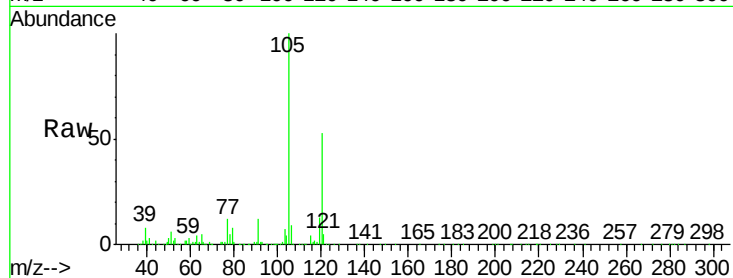
LOD-SOIL2015-01

Tgt Ion: 105 Resp: 207951

Ion Ratio Lower Upper

105 100

120 53.0 25.2 75.6



#80

trans-1,4-Dichloro-2-butene

Concen: 5.51 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

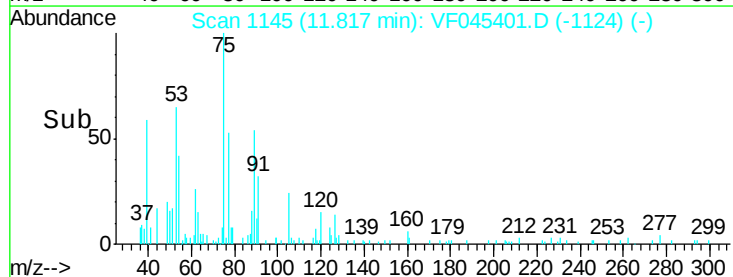
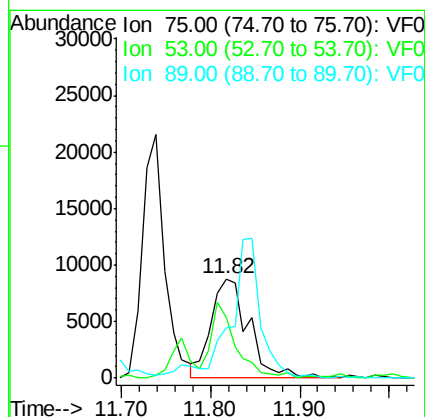
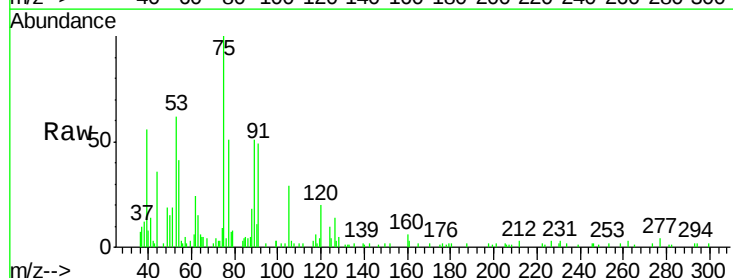
Tgt Ion: 75 Resp: 25914

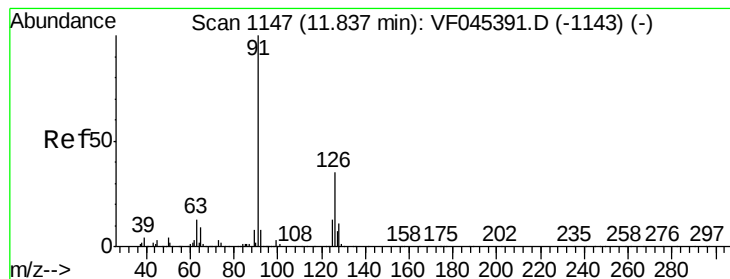
Ion Ratio Lower Upper

75 100

53 61.6 51.0 76.6

89 51.1 38.6 57.8





#81

4-Chlorotoluene

Concen: 4.43 ug/l

RT: 11.85 min Scan# 1148

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

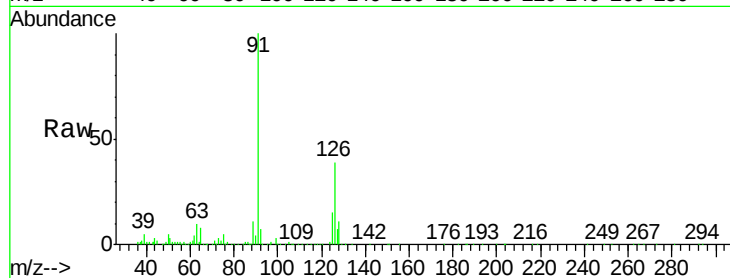
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 191729

Ion Ratio Lower Upper

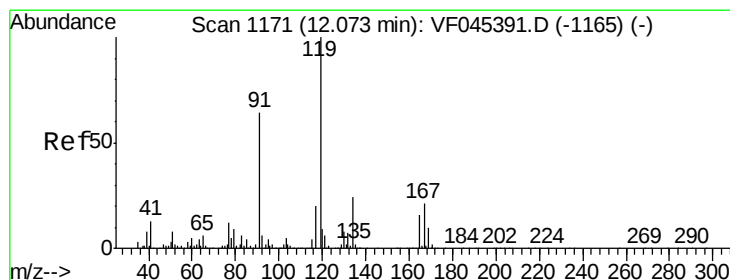
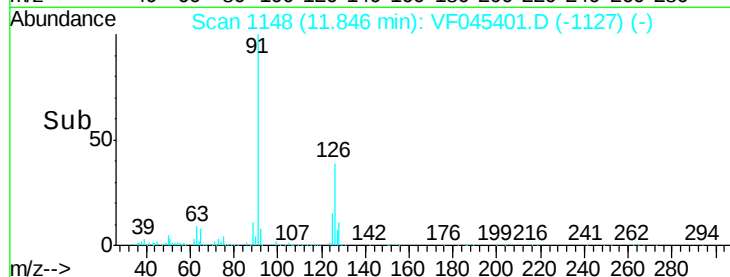
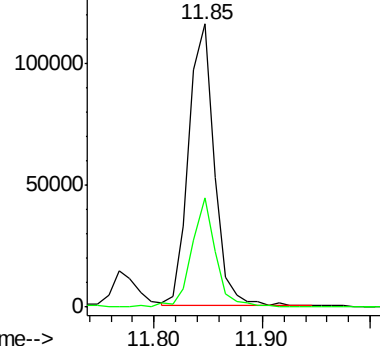
91 100

126 38.7 15.8 47.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#82

tert-Butylbenzene

Concen: 4.77 ug/l

RT: 12.07 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

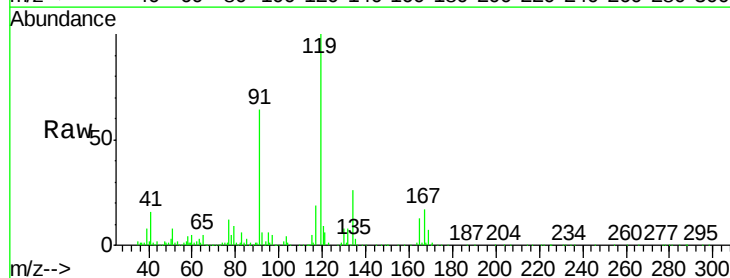
Tgt Ion: 119 Resp: 216371

Ion Ratio Lower Upper

119 100

91 64.3 31.1 93.2

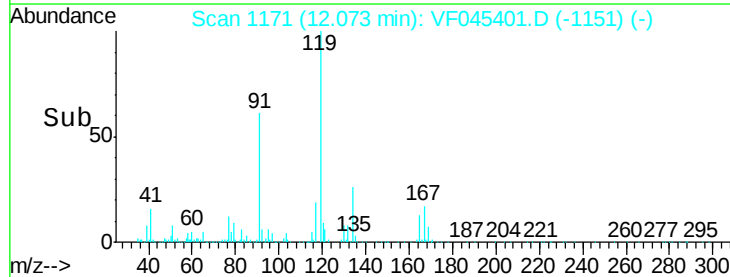
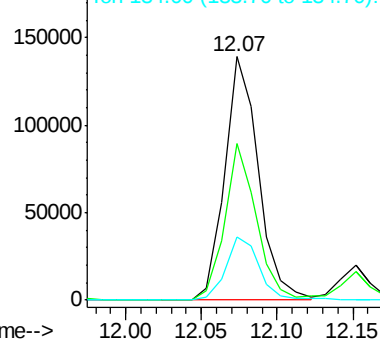
134 25.8 12.2 36.6

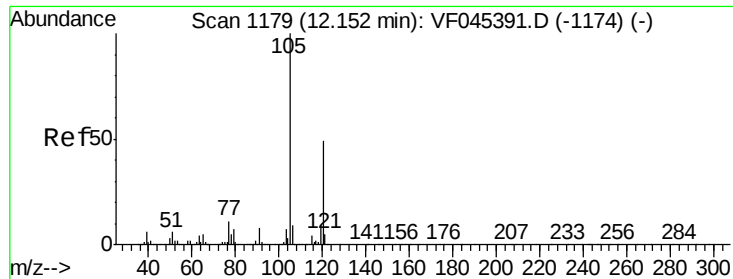


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

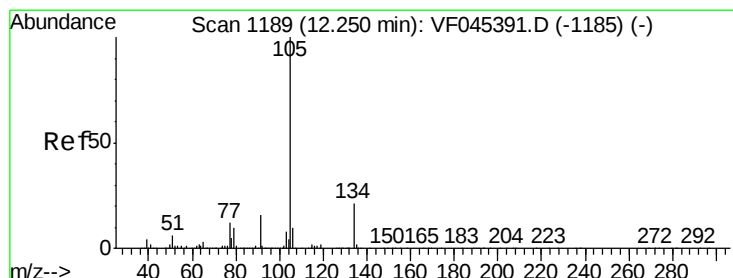
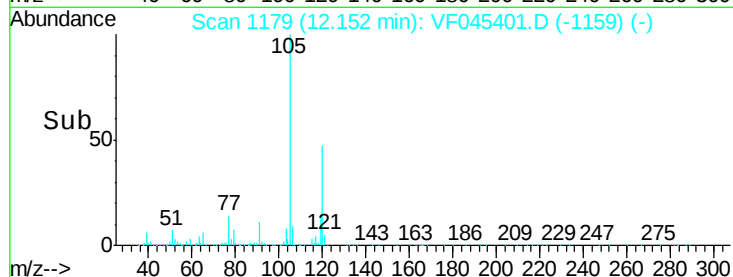
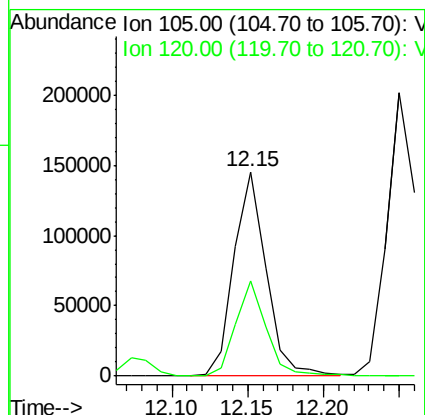
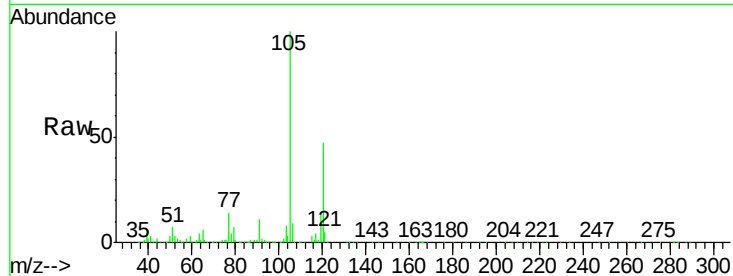




#83
 1,2,4-Trimethylbenzene
 Concen: 4.58 ug/l
 RT: 12.15 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

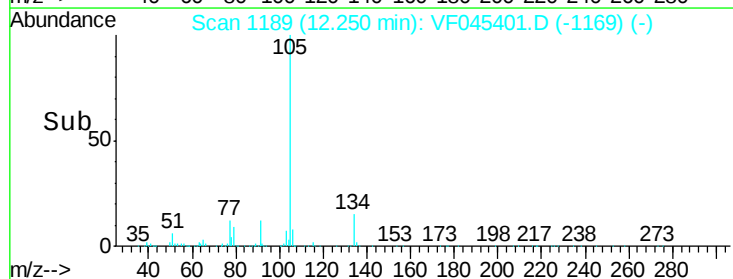
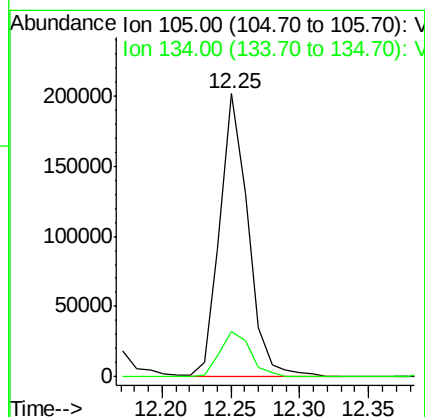
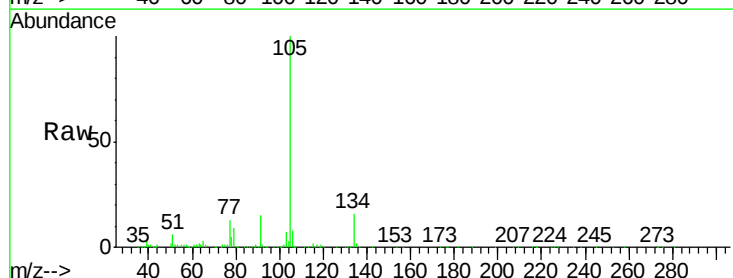
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

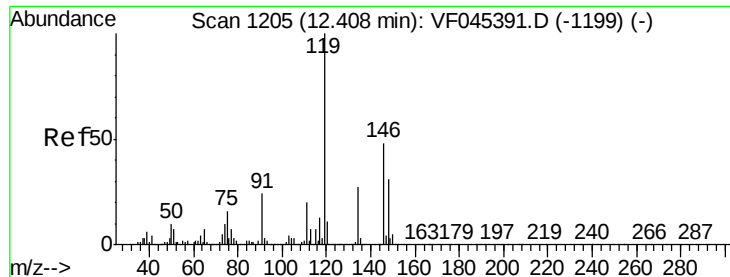
Tgt Ion:105 Resp: 215765
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.9 68.7



#84
 sec-Butylbenzene
 Concen: 4.54 ug/l
 RT: 12.25 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion:105 Resp: 286766
 Ion Ratio Lower Upper
 105 100
 134 15.9 10.5 31.6

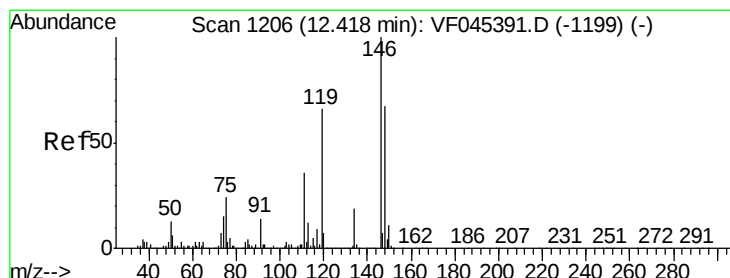
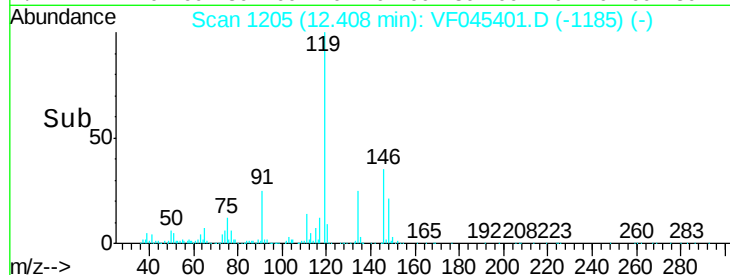
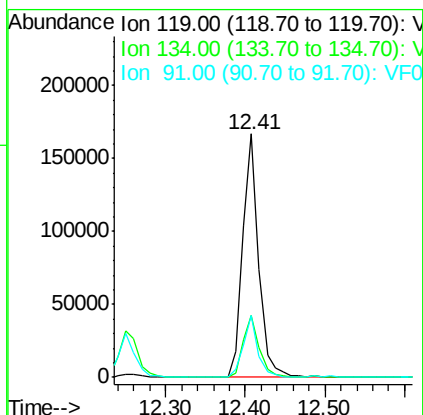
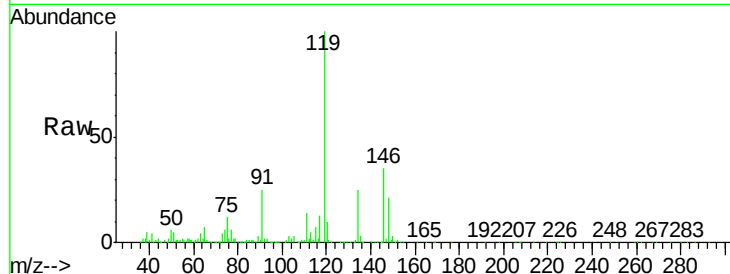




#85
p-Isopropyltoluene
Concen: 4.73 ug/l
RT: 12.41 min Scan# 1205
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

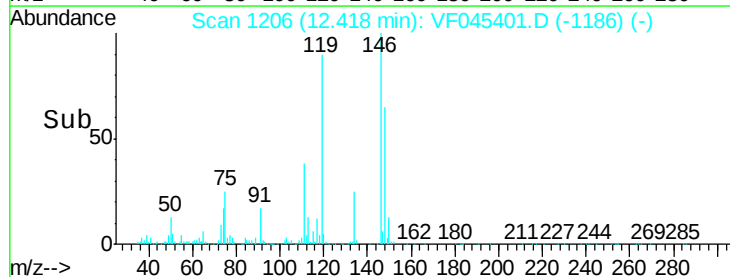
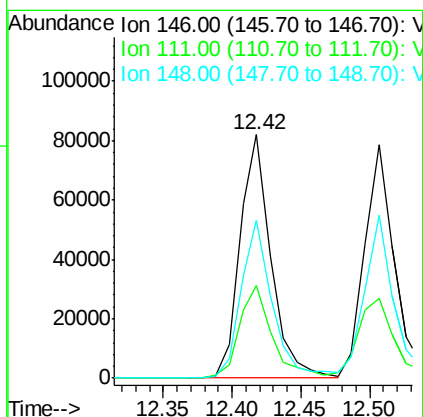
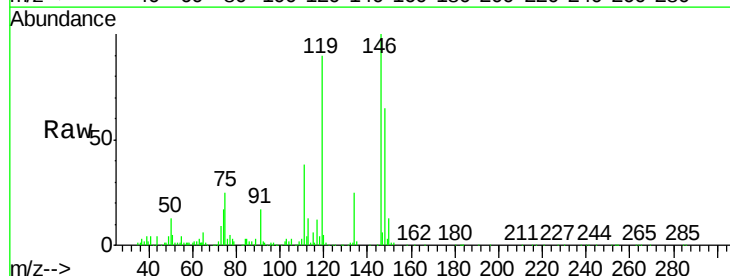
Instrument :
MSVOA_F
ClientSampleId :
LOD-SOIL2015-01

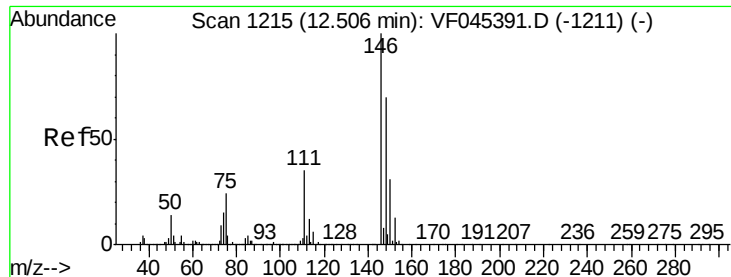
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.0	38.9
91	25.2	12.2	36.6



#86
1,3-Dichlorobenzene
Concen: 4.73 ug/l
RT: 12.42 min Scan# 1206
Delta R.T. 0.00 min
Lab File: VF045401.D
Acq: 16 Sep 2015 21:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.9	59.7
148	64.9	32.5	97.4





#87

1,4-Dichlorobenzene

Concen: 4.38 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

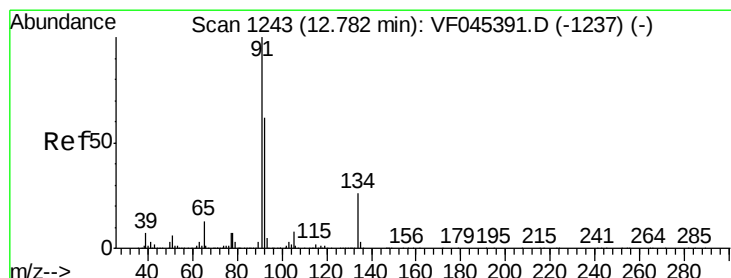
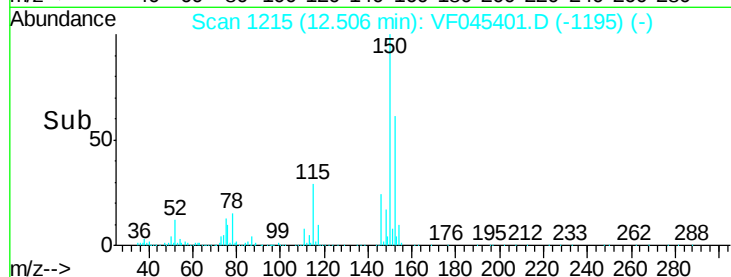
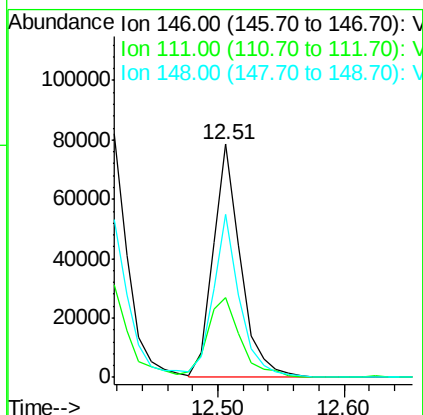
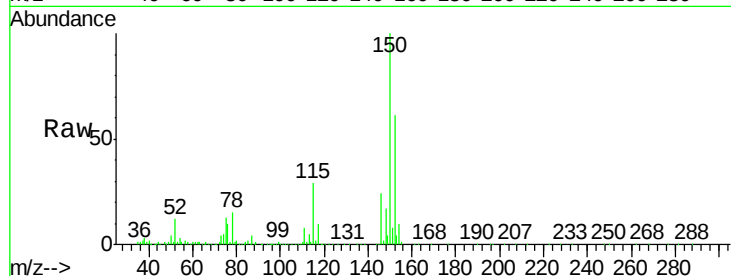
Tgt Ion: 146 Resp: 118708

Ion Ratio Lower Upper

146 100

111 34.1 17.3 52.0

148 70.1 32.4 97.0



#88

n-Butylbenzene

Concen: 4.76 ug/l

RT: 12.79 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

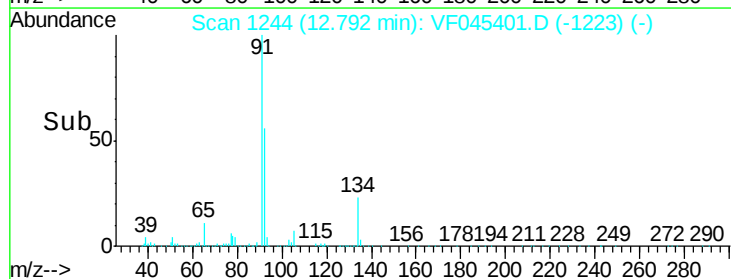
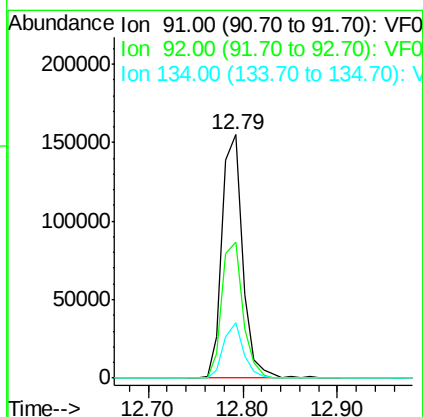
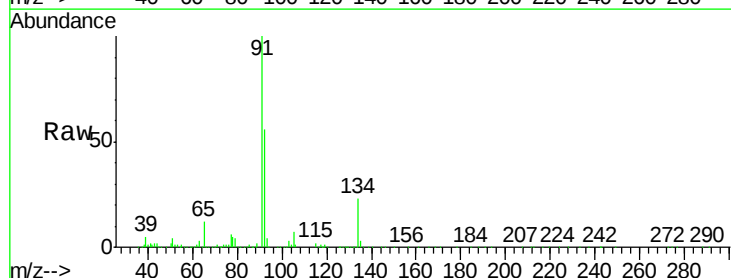
Tgt Ion: 91 Resp: 235139

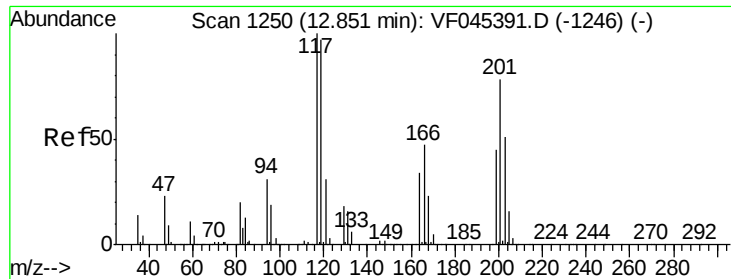
Ion Ratio Lower Upper

91 100

92 55.9 30.1 90.5

134 22.7 13.8 41.4





#89

Hexachloroethane

Concen: 3.99 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

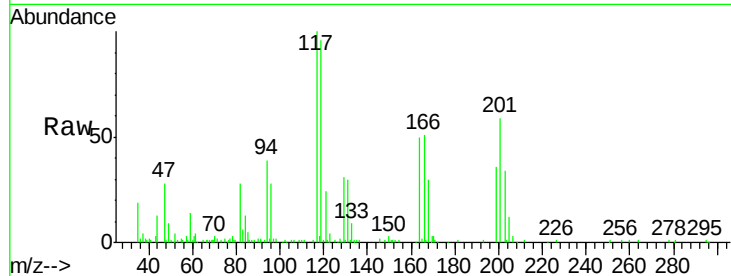
LOD-SOIL2015-01

Tgt Ion:117 Resp: 46382

Ion Ratio Lower Upper

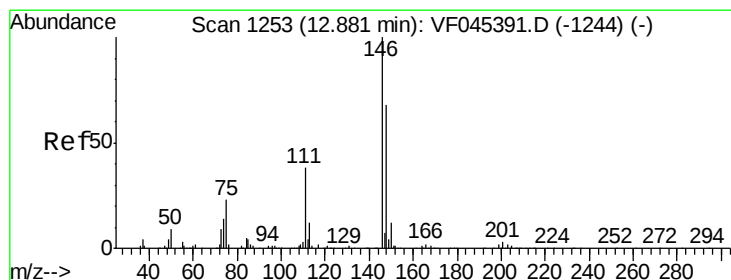
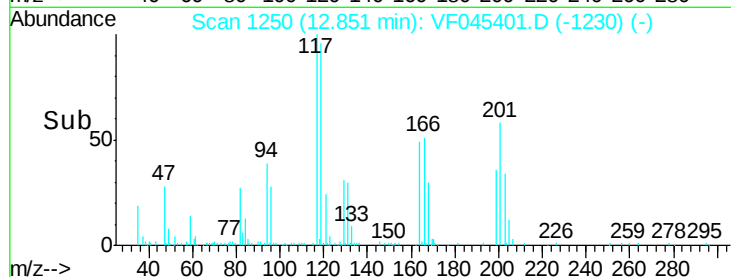
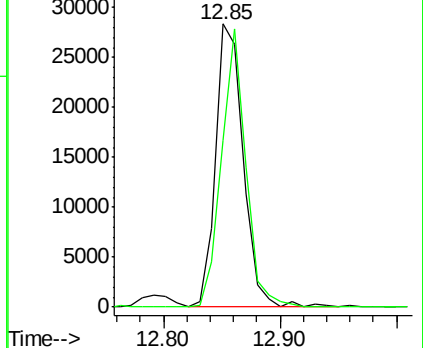
117 100

201 58.8 42.0 126.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#90

1,2-Dichlorobenzene

Concen: 4.53 ug/l

RT: 12.88 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

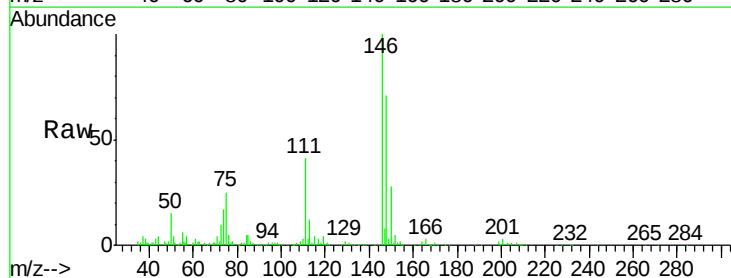
Tgt Ion:146 Resp: 113113

Ion Ratio Lower Upper

146 100

111 41.0 21.4 64.3

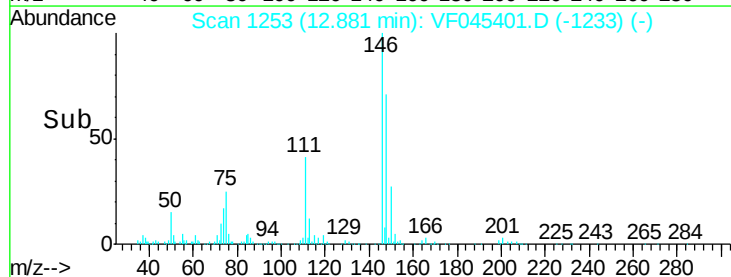
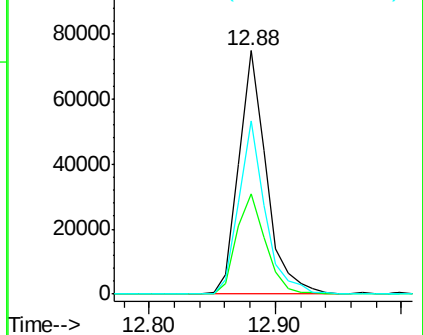
148 71.2 31.4 94.3

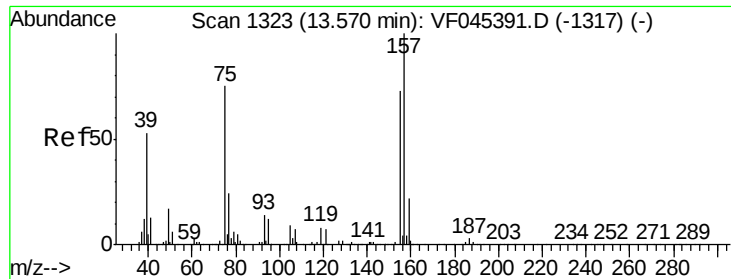


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

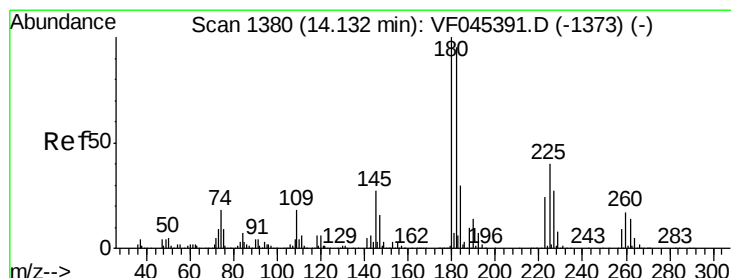
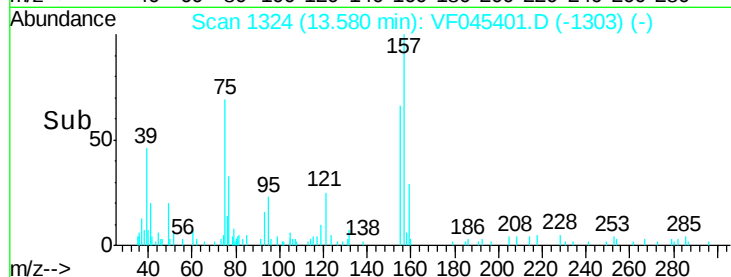
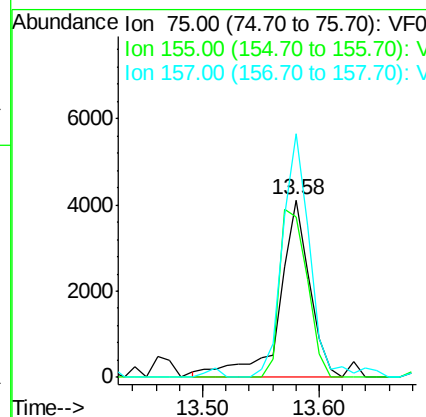
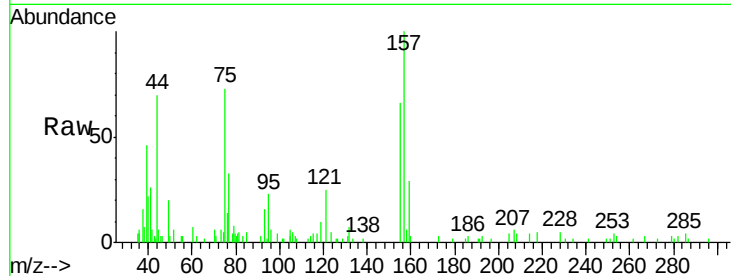




#91
 1,2-Dibromo-3-Chloropropane
 Concen: 4.33 ug/l
 RT: 13.58 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

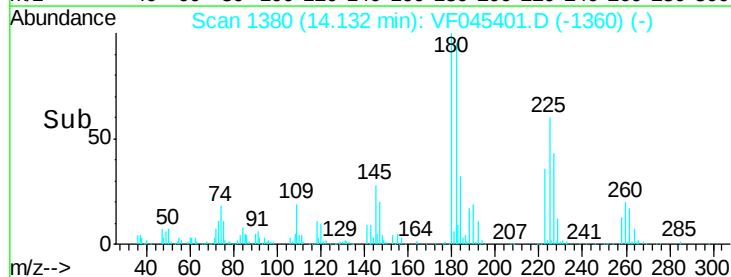
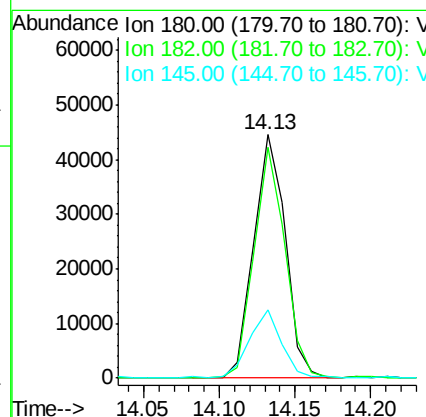
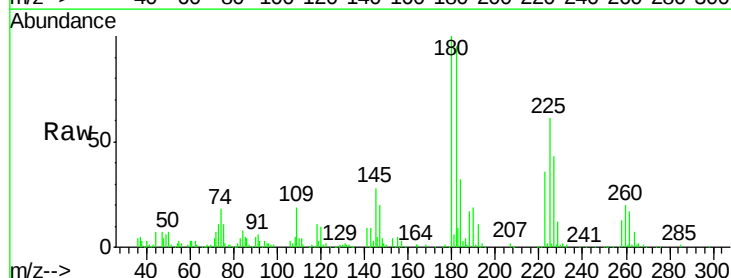
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

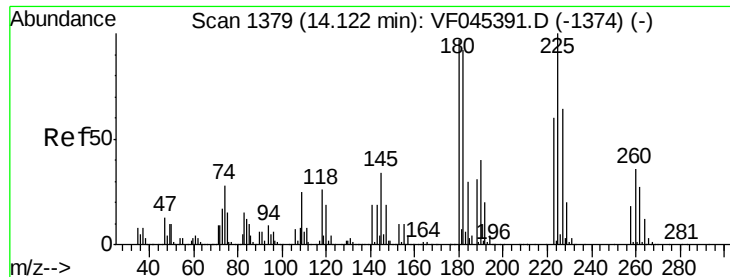
Tgt Ion: 75 Resp: 7345
 Ion Ratio Lower Upper
 75 100
 155 90.3 49.2 147.6
 157 137.5 66.8 200.4



#92
 1,2,4-Trichlorobenzene
 Concen: 4.50 ug/l
 RT: 14.13 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Tgt Ion: 180 Resp: 65104
 Ion Ratio Lower Upper
 180 100
 182 95.0 49.4 148.0
 145 28.1 16.7 50.1





#93

Hexachlorobutadiene

Concen: 4.76 ug/l

RT: 14.12 min Scan# 1379

Delta R.T. 0.00 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

Instrument :

MSVOA_F

ClientSampleId :

LOD-SOIL2015-01

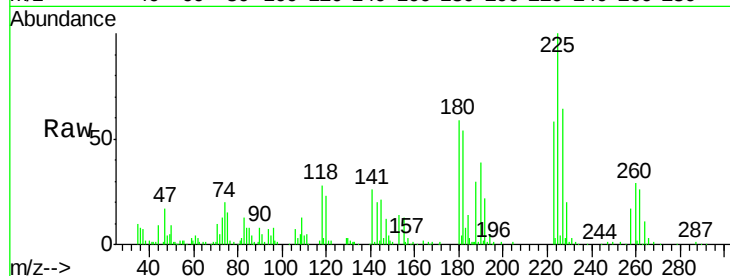
Tgt Ion:225 Resp: 52317

Ion Ratio Lower Upper

225 100

223 61.1 31.9 95.5

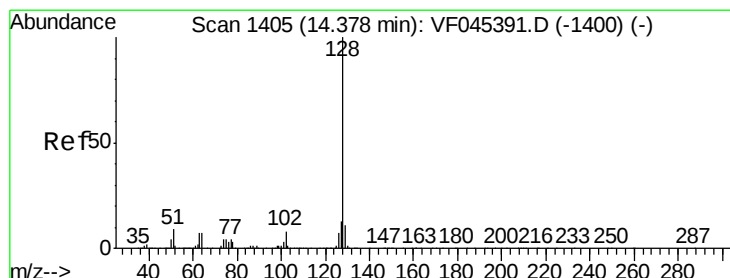
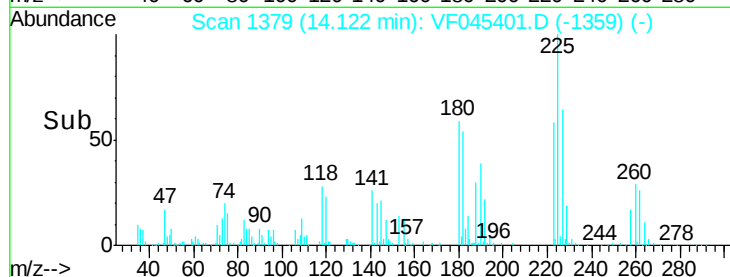
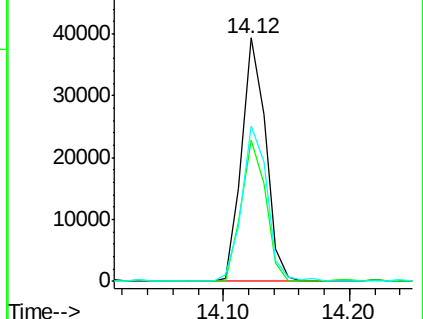
227 63.6 32.9 98.7



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#94

Naphthalene

Concen: 5.24 ug/l

RT: 14.39 min Scan# 1406

Delta R.T. 0.01 min

Lab File: VF045401.D

Acq: 16 Sep 2015 21:04

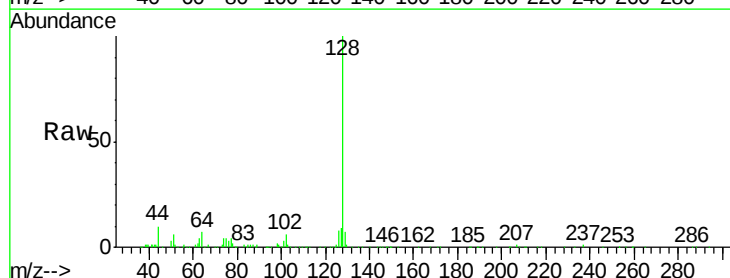
Tgt Ion:128 Resp: 100711

Ion Ratio Lower Upper

128 100

127 8.7 9.8 14.8#

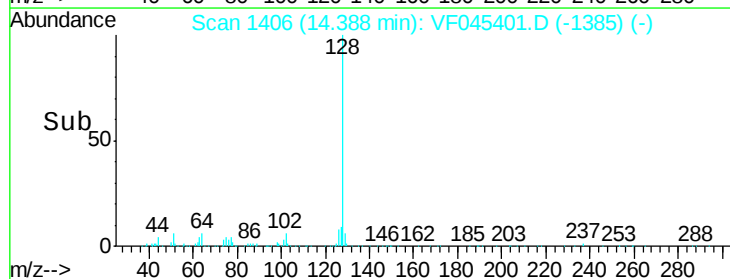
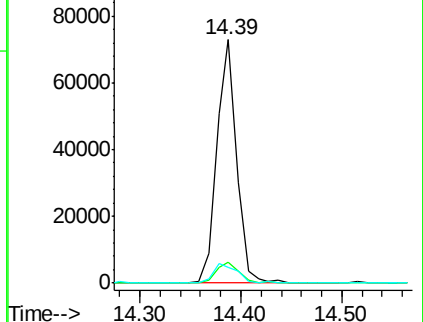
129 6.6 8.8 13.2#

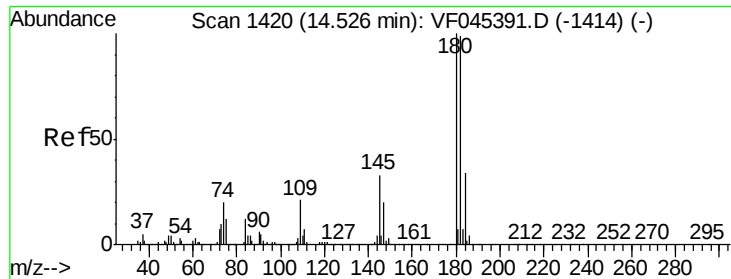


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#95
 1,2,3-Trichlorobenzene
 Concen: 4.00 ug/l
 RT: 14.54 min Scan# 1421
 Delta R.T. 0.01 min
 Lab File: VF045401.D
 Acq: 16 Sep 2015 21:04

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion	Resp	Lower	Upper
180	47538		
182	110.9	47.6	142.8
145	22.4	14.5	43.6

