

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046793.D
 Acq On : 18 Sep 2015 20:40
 Operator : FY/SY
 Sample : G3707-03LOD 3ppb
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 19 00:12:13 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.31	168	160282	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	220411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	212926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	109885	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.72	65	105018	63.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.04%	
35) Dibromofluoromethane	6.21	113	102492	59.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.86%	
50) Toluene-d8	9.61	98	322975	59.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.74%	
62) 4-Bromofluorobenzene	12.85	95	122815	56.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.14%	

Target Compounds

						Qvalue
3) Chlorodifluoromethane	1.44	51	8407	1.51	ug/l	98
4) Chloromethane	1.58	50	3912	4.14	ug/l	94
5) Vinyl Chloride	1.68	62	2978	3.36	ug/l	99
7) Chloroethane	2.08	64	2688	4.84	ug/l	92
8) Trichlorofluoromethane	2.33	101	9166	3.49	ug/l	99
9) Diethyl Ether	2.64	74	1638	3.52	ug/l	100
10) 1,1,2-Trichlorotrifluoroet	2.90	101	5600	3.41	ug/l	90
11) Methyl Iodide	3.05	142	3047	3.27	ug/l #	67
12) Tert butyl alcohol	3.65	59	3416	Below	Cal #	74
13) 1,1-Dichloroethene	2.88	96	4739	3.69	ug/l	79
14) Acrolein	2.78	56	654	7.68	ug/l #	68
15) Allyl chloride	3.34	41	8190	3.14	ug/l #	90
16) Acrylonitrile	3.85	53	2981	15.32	ug/l #	92
17) Acetone	2.95	43	4688	16.65	ug/l	95
18) Carbon Disulfide	3.13	76	16719	3.48	ug/l	98
19) Methyl Acetate	3.35	43	5161	3.16	ug/l	97
20) Methyl tert-butyl Ether	3.90	73	5282	2.63	ug/l #	79
21) Methylene Chloride	3.51	84	9134	5.97	ug/l	88
22) trans-1,2-Dichloroethene	3.90	96	4534	3.13	ug/l	96
23) Diisopropyl ether	4.66	45	10629	2.46	ug/l #	86
24) Vinyl Acetate	4.61	43	14355	28.29	ug/l #	94
25) 1,1-Dichloroethane	4.57	63	8758	3.28	ug/l #	92
26) 2-Butanone	5.46	43	5167	16.33	ug/l	98
27) 2,2-Dichloropropane	5.44	77	8996	3.28	ug/l	92
28) cis-1,2-Dichloroethene	5.43	96	4519	3.00	ug/l	93
29) Bromochloromethane	5.79	49	4689	4.46	ug/l #	93
30) Chloroform	5.98	83	10993	3.40	ug/l	90
31) Cyclohexane	6.28	56	10898	4.36	ug/l #	73
32) 1,1,1-Trichloroethane	6.18	97	9276	3.22	ug/l	99
36) 1,1-Dichloropropene	6.43	75	7421	2.88	ug/l	94
37) Ethyl Acetate	5.54	43	2935	3.55	ug/l	98
38) Carbon Tetrachloride	6.41	117	8347	3.12	ug/l	97
39) Methylcyclohexane	8.08	83	6057	2.32	ug/l #	84
40) Benzene	6.73	78	20772	3.16	ug/l	100

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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)

41) Methacrylonitrile	5.76	41	1276	2.75	ug/l #	79
42) 1,2-Dichloroethane	6.84	62	6381	3.12	ug/l	96
43) Isopropyl Acetate	8.42	43	2630	2.41	ug/l #	100
44) Trichloroethene	7.75	130	4869	2.96	ug/l	96
45) 1,2-Dichloropropane	8.15	63	4615	2.83	ug/l	89
46) Dibromomethane	8.27	93	2765	2.99	ug/l	92
47) Bromodichloromethane	8.56	83	7372	3.04	ug/l #	88
48) Methyl methacrylate	8.09	41	4620	2.77	ug/l	96
49) 1,4-Dioxane	8.29	88	137	22.21	ug/l #	47
51) 4-Methyl-2-Pentanone	9.49	43	8379	10.63	ug/l	95
52) Toluene	9.72	92	12560	3.10	ug/l	91
53) t-1,3-Dichloropropene	10.13	75	4938	2.75	ug/l	94
54) cis-1,3-Dichloropropene	9.24	75	5865	2.54	ug/l	92
55) 1,1,2-Trichloroethane	10.40	97	3303	3.15	ug/l	98
56) Ethyl methacrylate	10.25	69	2499	5.99	ug/l #	63
57) 1,3-Dichloropropane	10.61	76	5372	2.75	ug/l #	81
58) 2-Chloroethyl Vinyl ether	9.03	63	5085	15.90	ug/l #	91
59) 2-Hexanone	10.72	43	6583	11.56	ug/l	97
60) Dibromochloromethane	10.89	129	4101	2.85	ug/l	98
61) 1,2-Dibromoethane	11.01	107	2983	2.88	ug/l	96
64) Tetrachloroethene	10.48	164	5233	3.04	ug/l #	73
65) Chlorobenzene	11.61	112	13985	3.12	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.72	131	5072	3.08	ug/l	98
67) Ethyl Benzene	11.73	91	22775	2.53	ug/l	96
68) m/p-Xylenes	11.88	106	13917	4.90	ug/l	75
69) o-Xylene	12.30	106	5184	2.03	ug/l	98
70) Styrene	12.32	104	9650	2.18	ug/l	89
71) Bromoform	12.51	173	2305	2.63	ug/l #	96
73) Isopropylbenzene	12.67	105	15828	2.04	ug/l	96
74) N-amyl acetate	12.50	43	3438	6.31	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.99	83	3875	3.10	ug/l	96
76) 1,2,3-Trichloropropane	13.04	75	3479	2.60	ug/l	74
77) Bromobenzene	12.98	156	6171	3.17	ug/l	86
78) n-propylbenzene	13.07	91	25563	2.34	ug/l	97
79) 2-Chlorotoluene	13.16	91	17139	2.82	ug/l	90
80) 1,3,5-Trimethylbenzene	13.25	105	13824	2.24	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.85	75	63874	164.25	ug/l #	9
82) 4-Chlorotoluene	13.27	91	19344	2.68	ug/l	94
83) tert-Butylbenzene	13.54	119	15036	2.70	ug/l	97
84) 1,2,4-Trimethylbenzene	13.59	105	12858	2.07	ug/l	99
85) sec-Butylbenzene	13.74	105	18586	2.27	ug/l	97
86) p-Isopropyltoluene	13.87	119	14282	2.22	ug/l	94
87) 1,3-Dichlorobenzene	13.84	146	10347	2.85	ug/l	99
88) 1,4-Dichlorobenzene	13.94	146	11695	3.24	ug/l	91
89) n-Butylbenzene	14.22	91	16025	2.21	ug/l	97
90) Hexachloroethane	14.48	117	4962	3.33	ug/l	100
91) 1,2-Dichlorobenzene	14.24	146	8612	2.82	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.89	75	452	2.81	ug/l #	60
93) 1,2,4-Trichlorobenzene	15.58	180	4870	2.77	ug/l	90
94) Hexachlorobutadiene	15.70	225	3604	2.49	ug/l	97

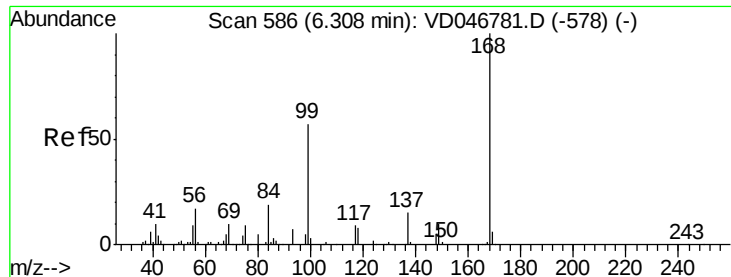
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.82	128	4968	4.41	ug/l #	91
96) 1,2,3-Trichlorobenzene	16.02	180	3773	2.57	ug/l #	85

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.31 min Scan# 587

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

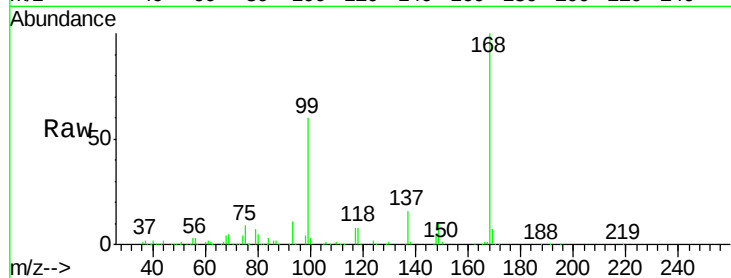
LOD-SOIL2015-01

Tgt Ion:168 Resp: 160282

Ion Ratio Lower Upper

168 100

99 60.3 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.31

80000

60000

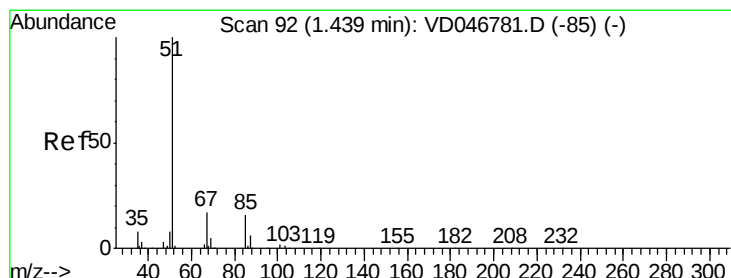
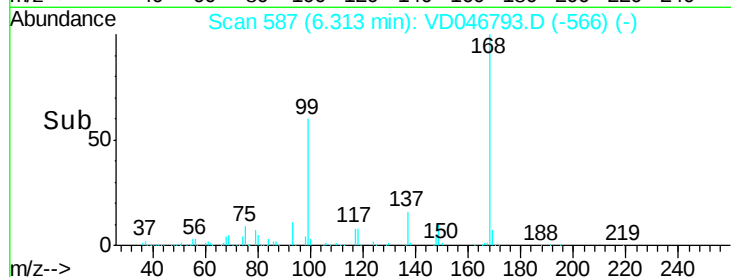
40000

20000

0

6.20 6.30 6.40

Time-->



#3

Chlorodifluoromethane

Concen: 1.51 ug/l

RT: 1.44 min Scan# 93

Delta R.T. 0.01 min

Lab File: VD046793.D

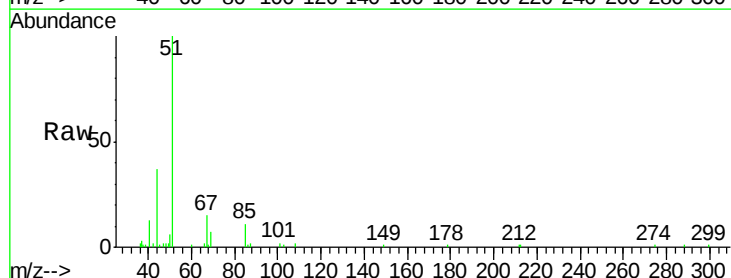
Acq: 18 Sep 2015 20:40

Tgt Ion: 51 Resp: 8407

Ion Ratio Lower Upper

51 100

67 14.6 10.9 16.3



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

1.44

6000

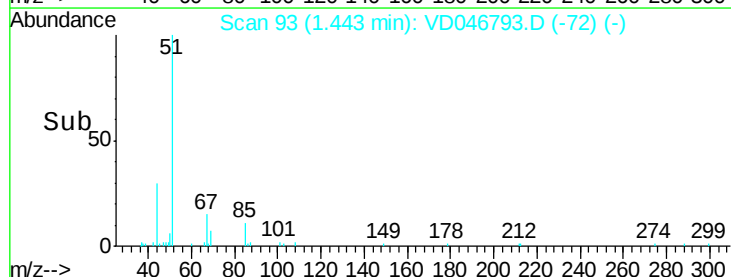
4000

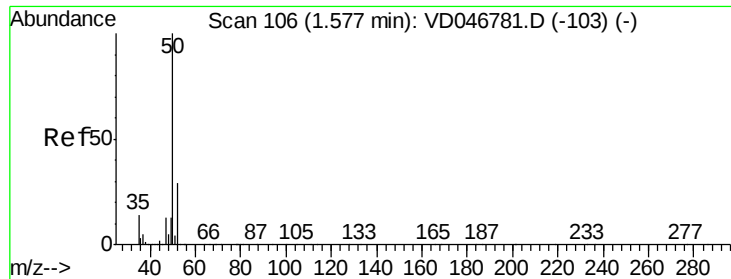
2000

0

1.40 1.50

Time-->





#4

Chloromethane

Concen: 4.14 ug/l

RT: 1.58 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

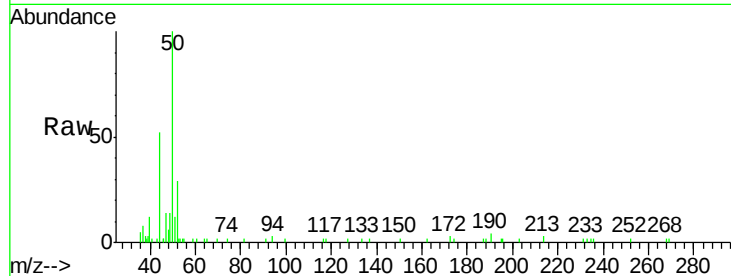
LOD-SOIL2015-01

Tgt Ion: 50 Resp: 3912

Ion Ratio Lower Upper

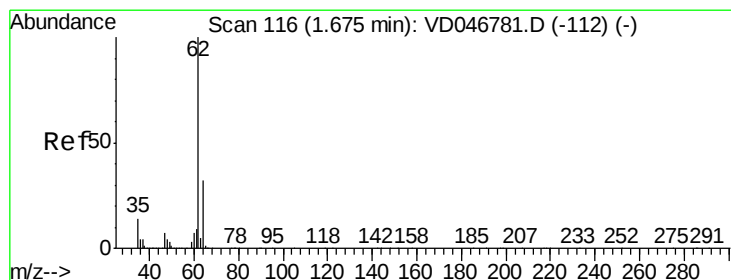
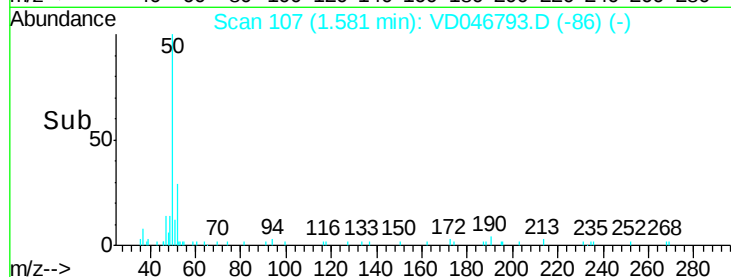
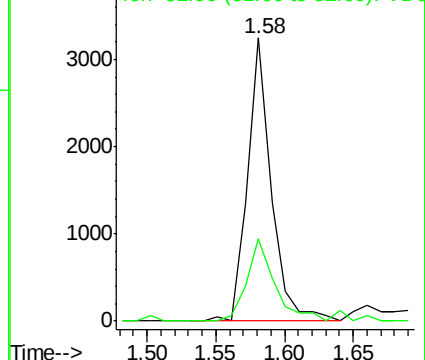
50 100

52 29.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Vinyl Chloride

Concen: 3.36 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VD046793.D

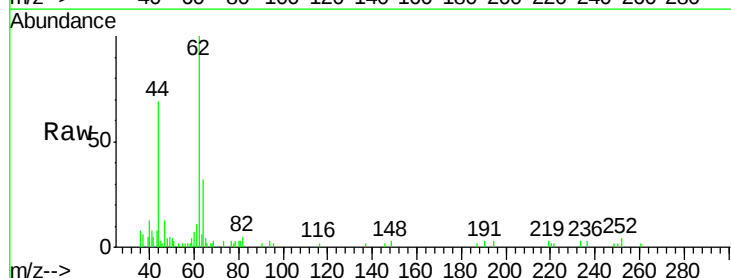
Acq: 18 Sep 2015 20:40

Tgt Ion: 62 Resp: 2978

Ion Ratio Lower Upper

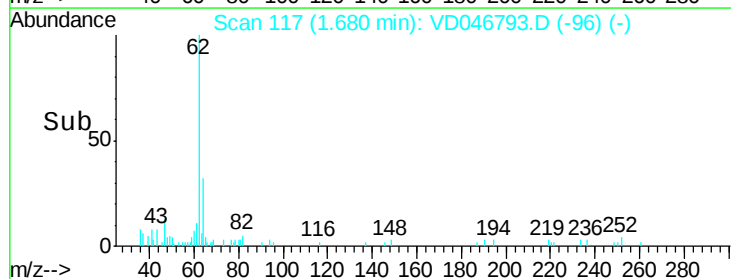
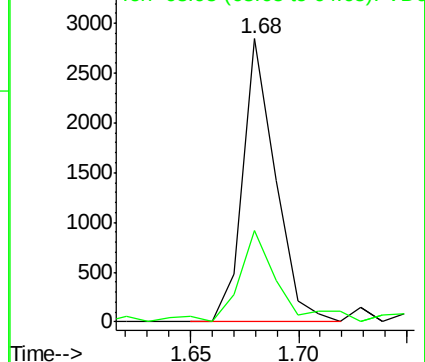
62 100

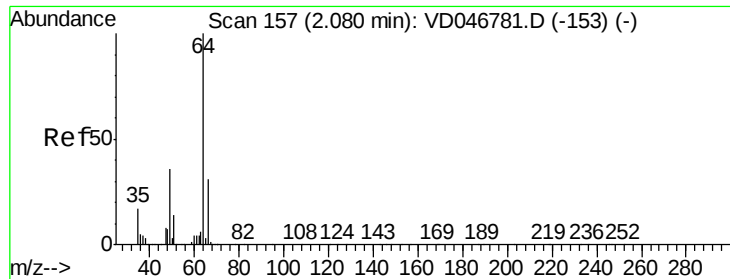
64 32.4 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#7

Chloroethane

Concen: 4.84 ug/l

RT: 2.08 min Scan# 158

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

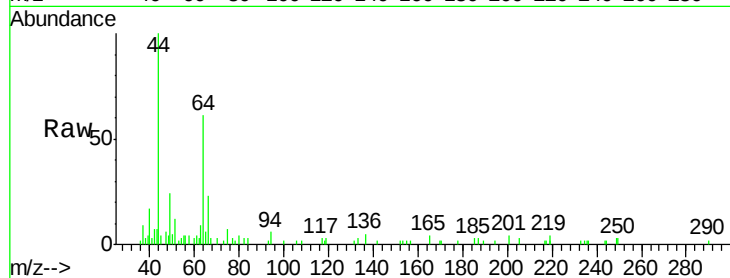
LOD-SOIL2015-01

Tgt Ion: 64 Resp: 2688

Ion Ratio Lower Upper

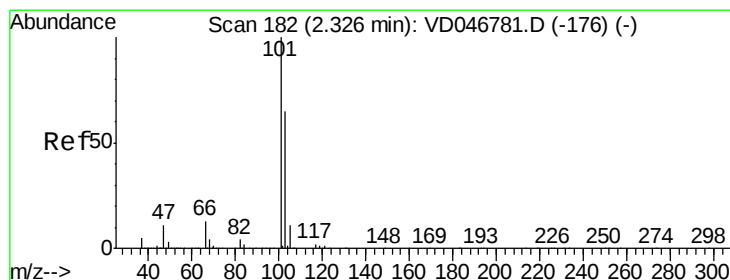
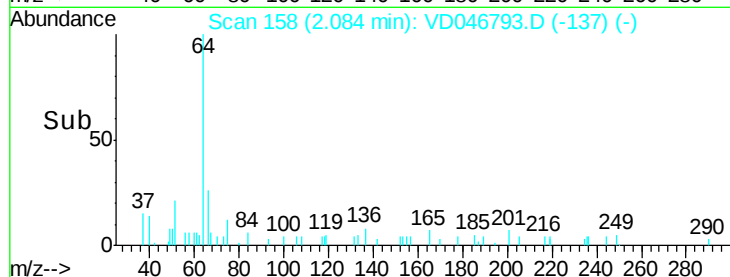
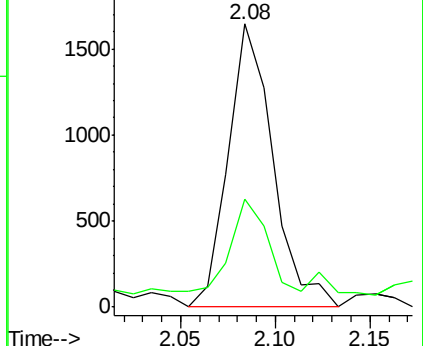
64 100

66 38.0 26.6 39.8



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Trichlorofluoromethane

Concen: 3.49 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD046793.D

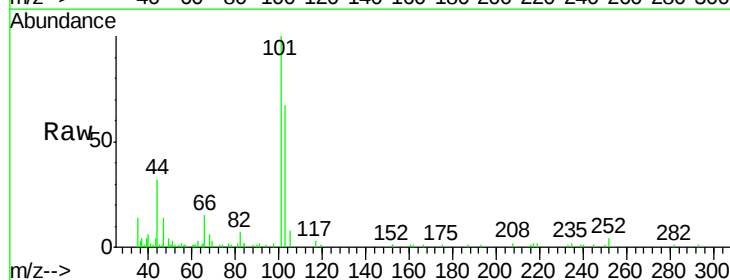
Acq: 18 Sep 2015 20:40

Tgt Ion: 101 Resp: 9166

Ion Ratio Lower Upper

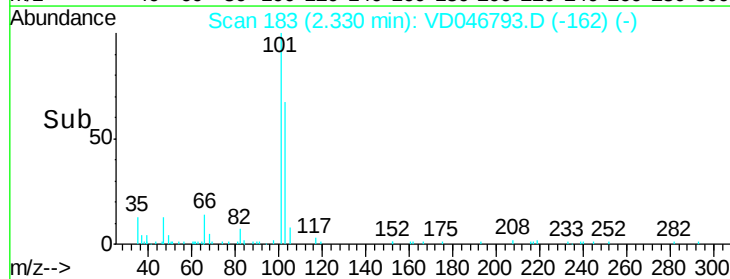
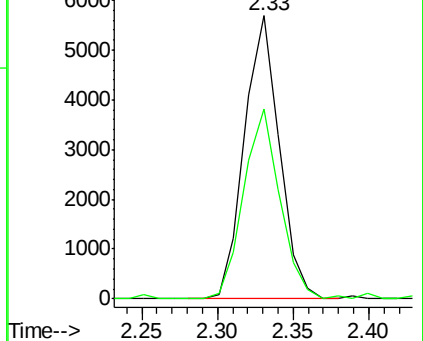
101 100

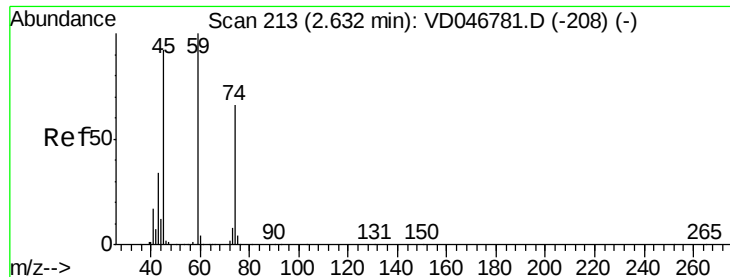
103 67.1 53.2 79.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V





#9

Diethyl Ether

Concen: 3.52 ug/l

RT: 2.64 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

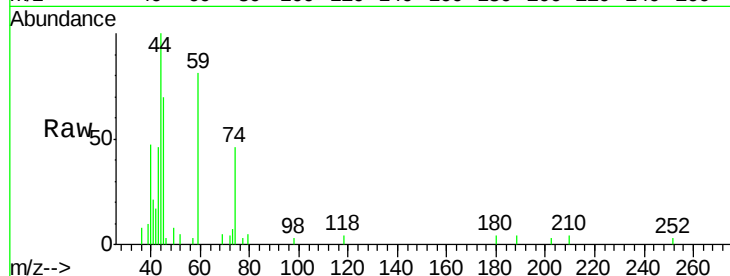
LOD-SOIL2015-01

Tgt Ion: 74 Resp: 1638

Ion Ratio Lower Upper

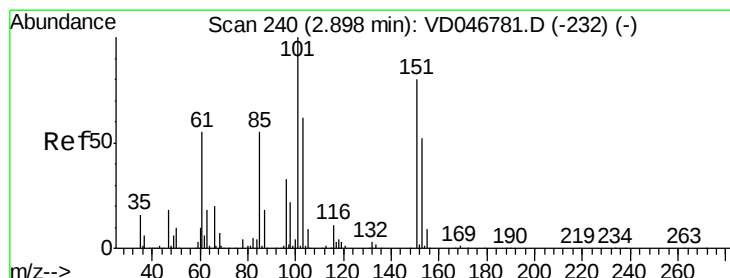
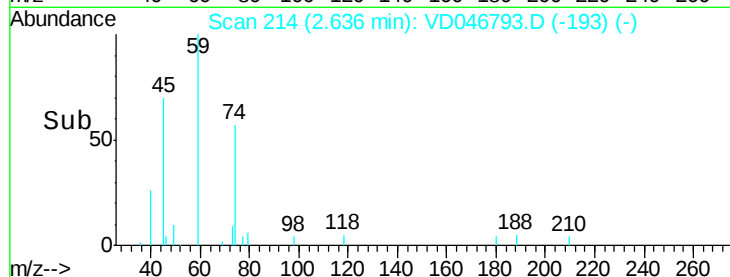
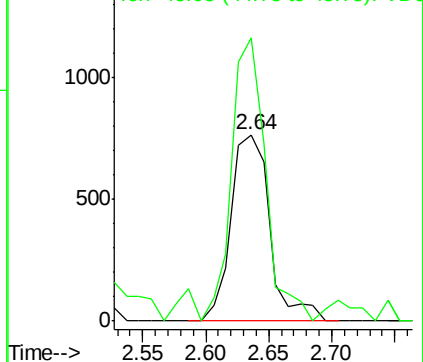
74 100

45 152.0 76.2 228.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

1,1,2-Trichlorotrifluoroethane

Concen: 3.41 ug/l

RT: 2.90 min Scan# 241

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

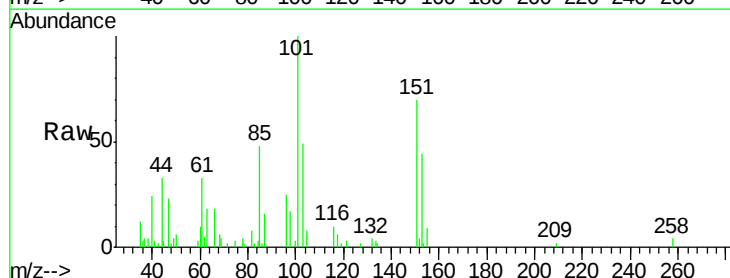
Tgt Ion: 101 Resp: 5600

Ion Ratio Lower Upper

101 100

85 48.3 42.0 63.0

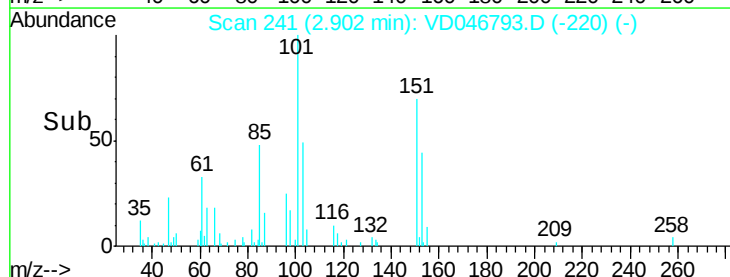
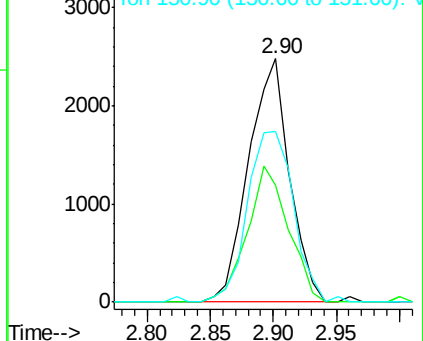
151 69.9 65.2 97.8

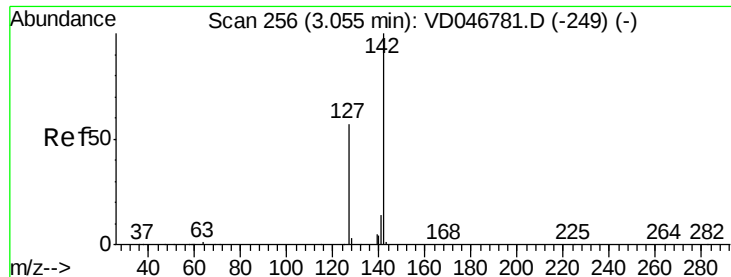


Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V

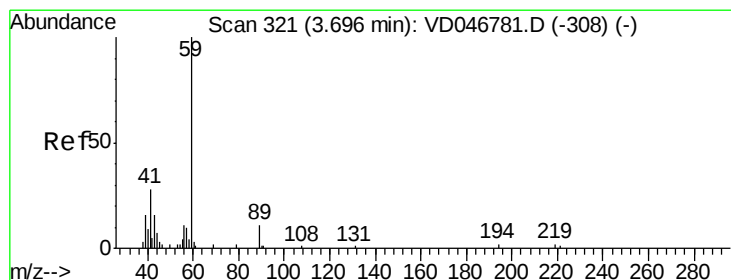
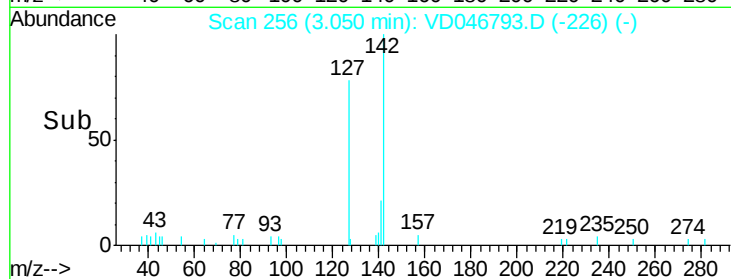
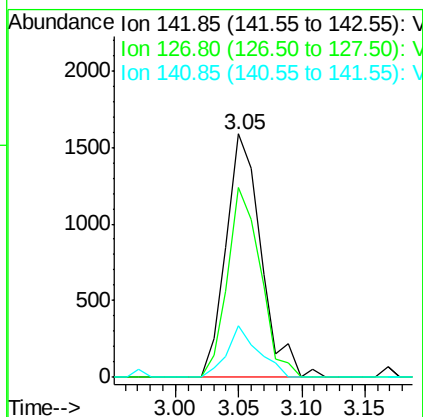
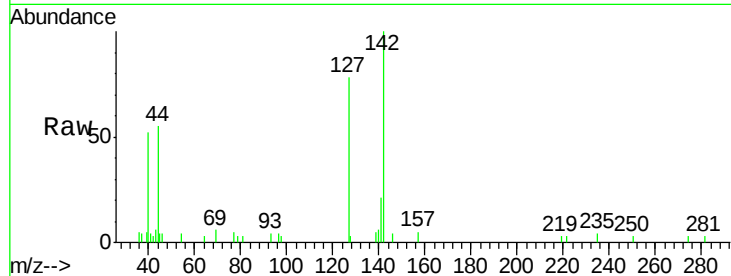




#11
Methyl Iodide
Concen: 3.27 ug/l
RT: 3.05 min Scan# 256
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

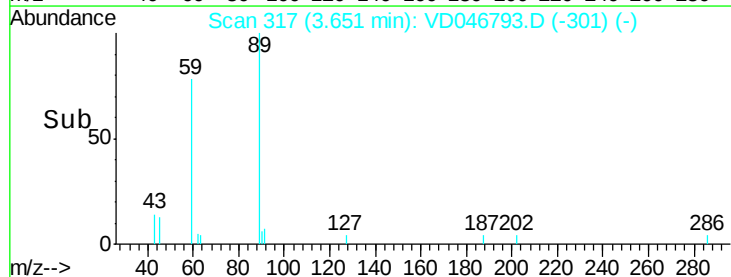
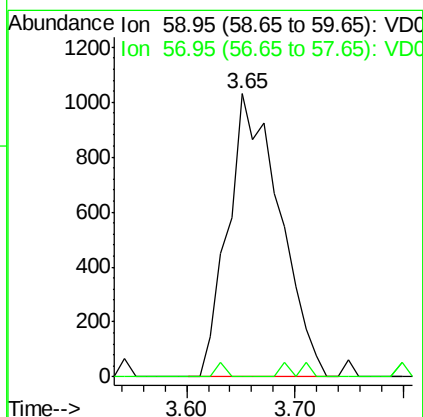
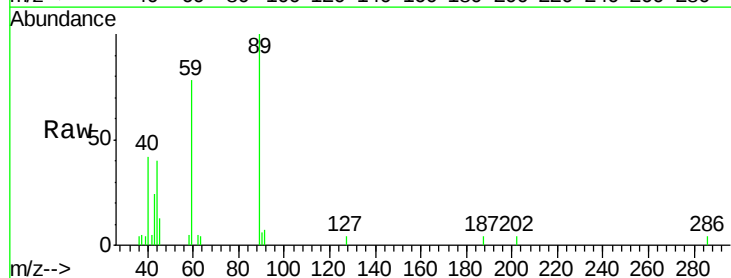
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

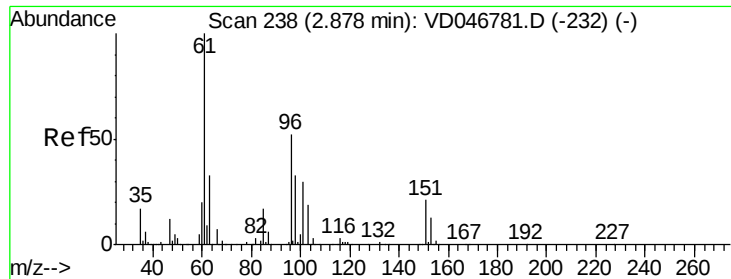
Tgt Ion:142 Resp: 3047
Ion Ratio Lower Upper
142 100
127 78.0 41.2 61.8#
141 21.2 11.6 17.4#



#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.65 min Scan# 317
Delta R.T. -0.04 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 59 Resp: 3416
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#





#13

1,1-Dichloroethene

Concen: 3.69 ug/l

RT: 2.88 min Scan# 239

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

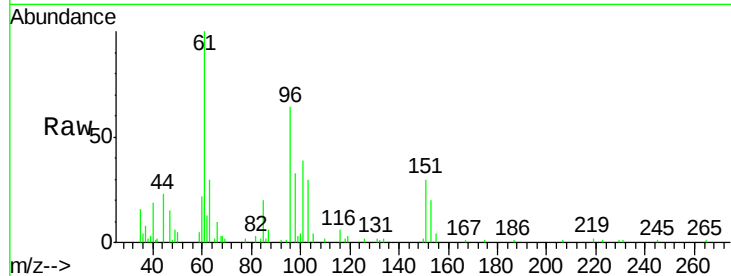
Tgt Ion: 96 Resp: 4739

Ion Ratio Lower Upper

96 100

61 157.2 152.2 228.4

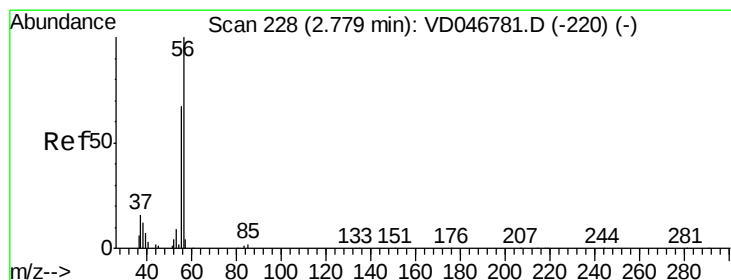
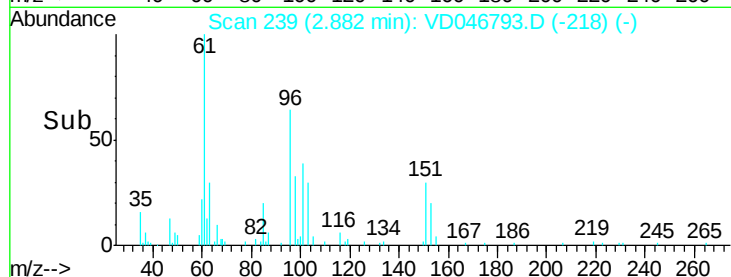
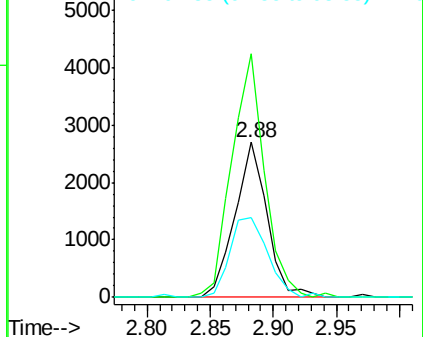
98 51.5 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#14

Acrolein

Concen: 7.68 ug/l

RT: 2.78 min Scan# 229

Delta R.T. 0.00 min

Lab File: VD046793.D

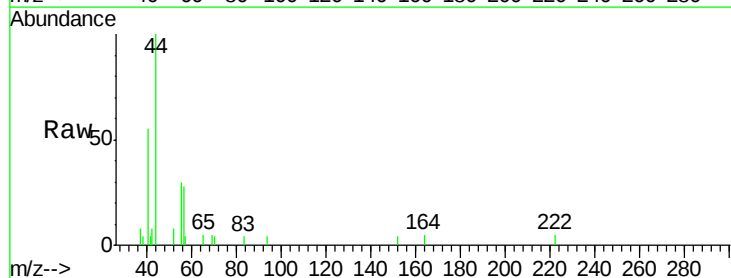
Acq: 18 Sep 2015 20:40

Tgt Ion: 56 Resp: 654

Ion Ratio Lower Upper

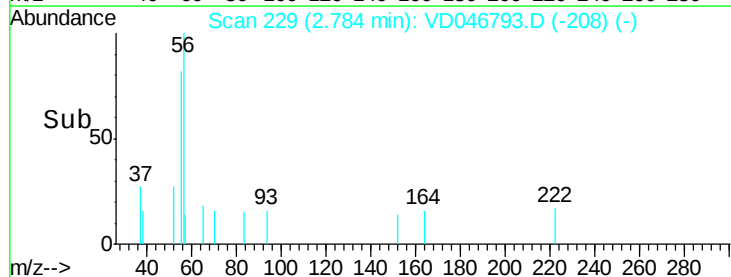
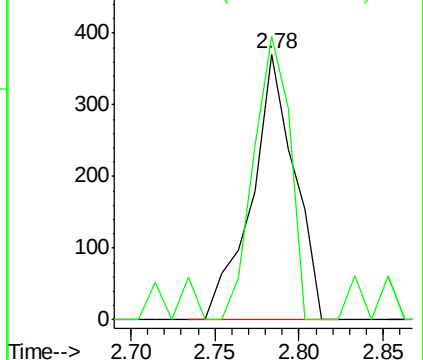
56 100

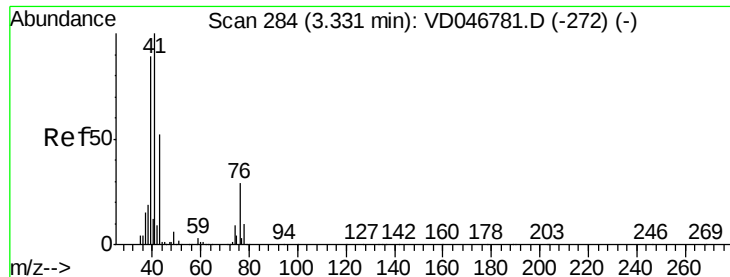
55 106.5 62.6 93.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

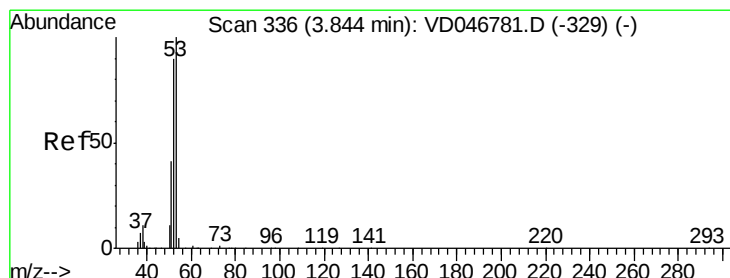
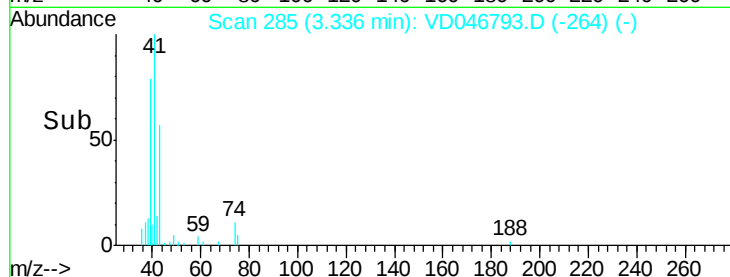
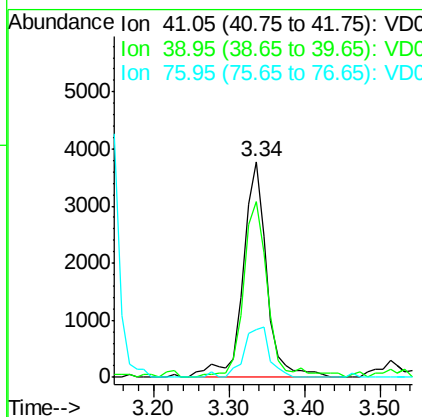
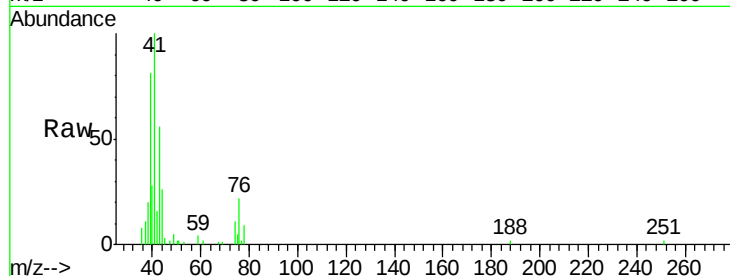




#15
 Allyl chloride
 Concen: 3.14 ug/l
 RT: 3.34 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

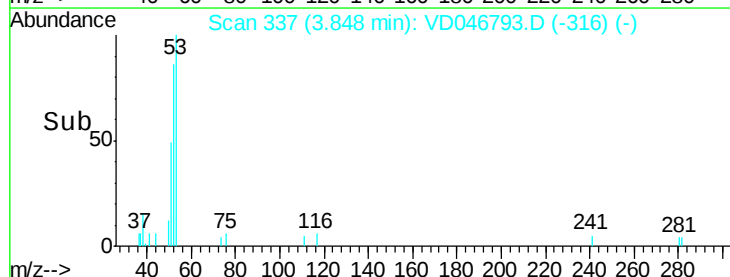
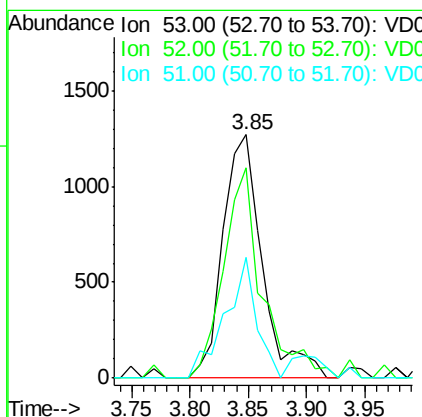
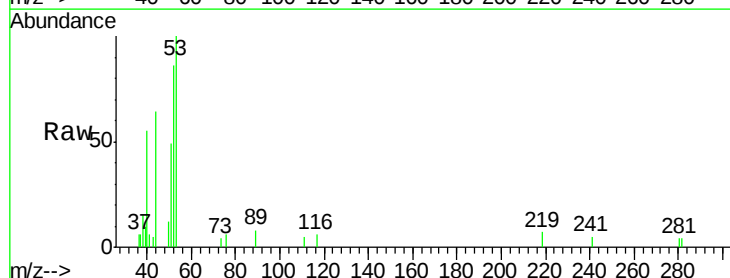
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

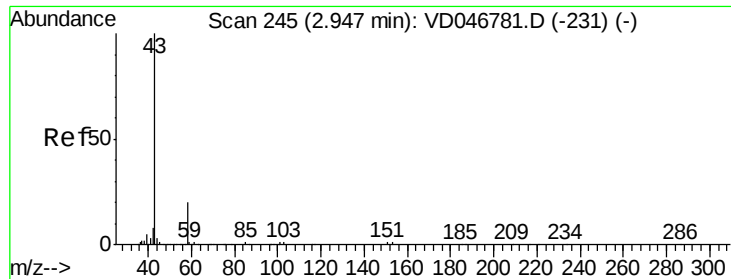
Tgt Ion: 41 Resp: 8190
 Ion Ratio Lower Upper
 41 100
 39 81.3 58.8 88.2
 76 22.1 22.7 34.1#



#16
 Acrylonitrile
 Concen: 15.32 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion: 53 Resp: 2981
 Ion Ratio Lower Upper
 53 100
 52 86.5 66.8 100.2
 51 49.5 31.2 46.8#





#17

Acetone

Concen: 16.65 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

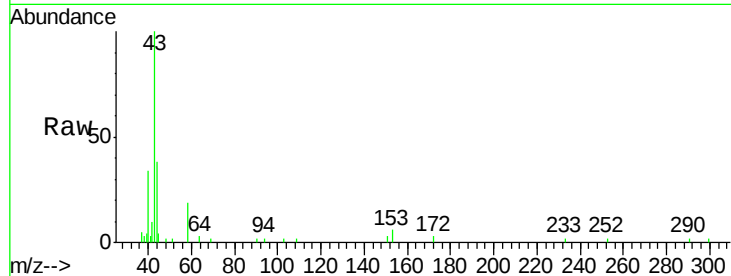
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 4688

Ion Ratio Lower Upper

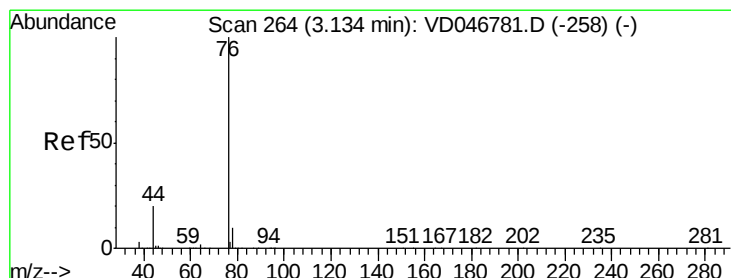
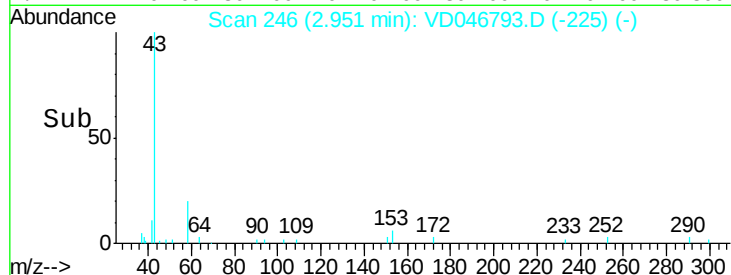
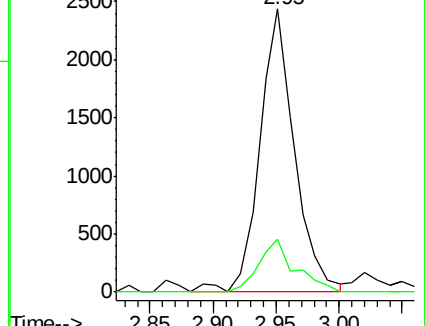
43 100

58 18.6 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Carbon Disulfide

Concen: 3.48 ug/l

RT: 3.13 min Scan# 264

Delta R.T. -0.01 min

Lab File: VD046793.D

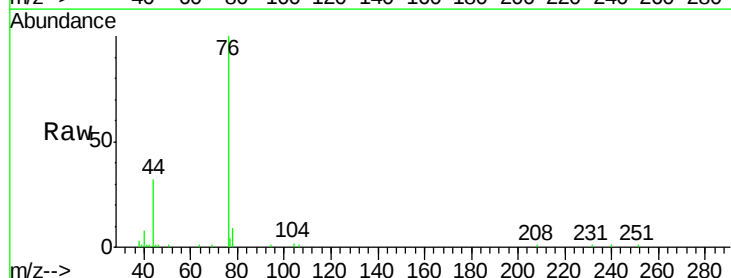
Acq: 18 Sep 2015 20:40

Tgt Ion: 76 Resp: 16719

Ion Ratio Lower Upper

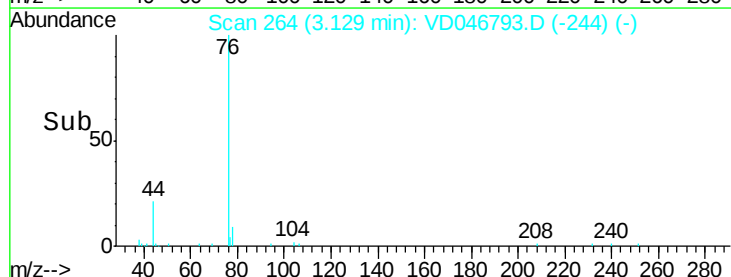
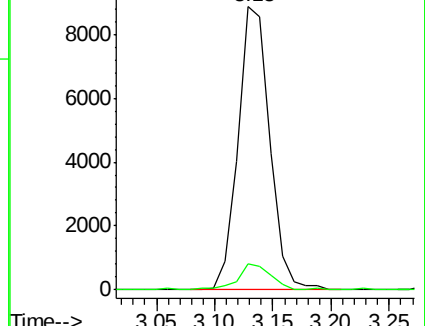
76 100

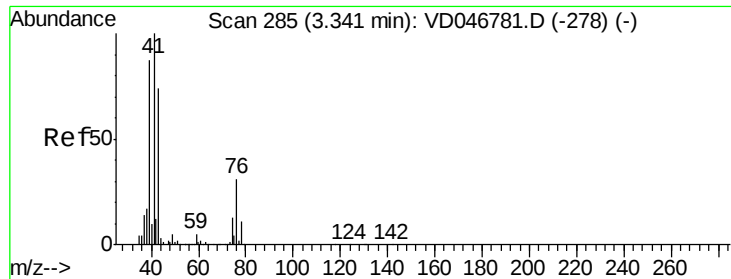
78 9.3 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

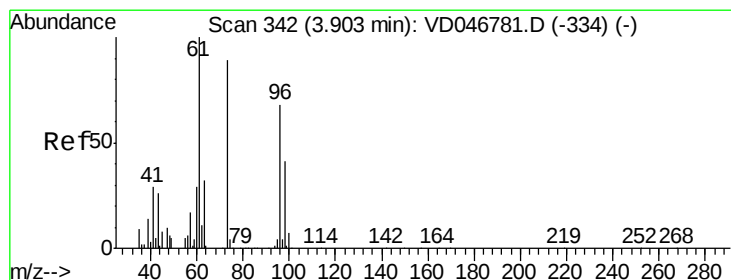
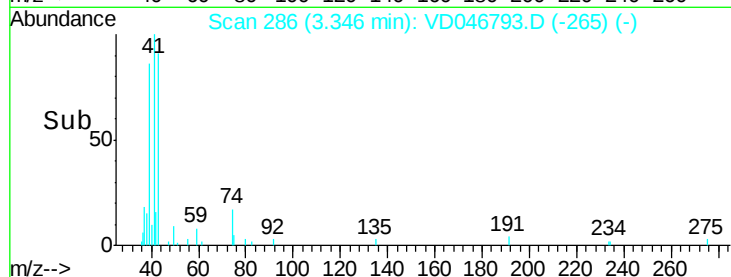
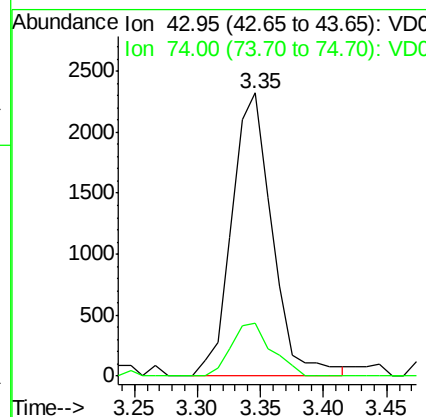
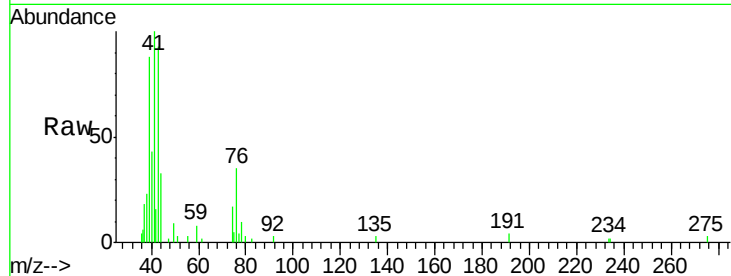




#19
Methyl Acetate
Concen: 3.16 ug/l
RT: 3.35 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

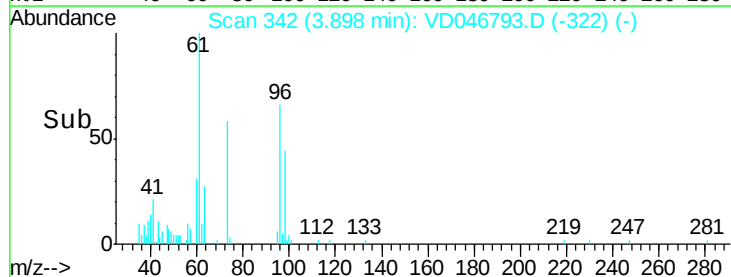
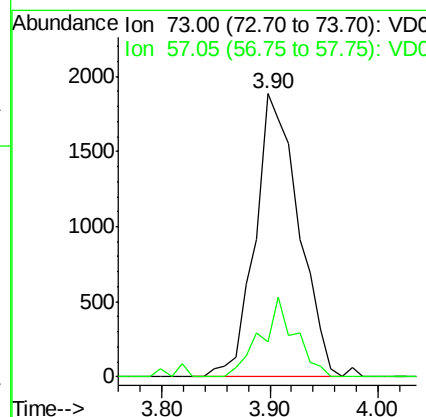
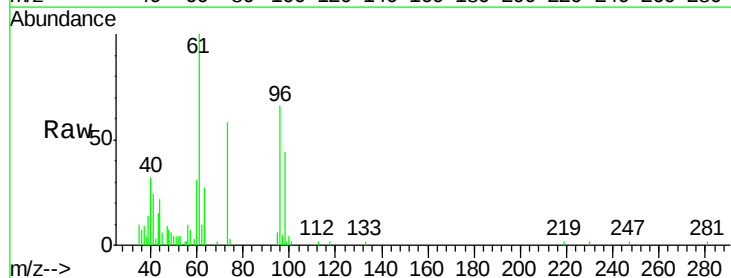
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

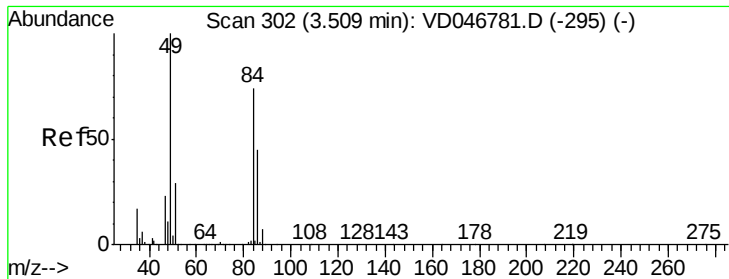
Tgt Ion: 43 Resp: 5161
Ion Ratio Lower Upper
43 100
74 18.6 13.7 20.5



#20
Methyl tert-butyl Ether
Concen: 2.63 ug/l
RT: 3.90 min Scan# 342
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 73 Resp: 5282
Ion Ratio Lower Upper
73 100
57 12.4 18.1 27.1#

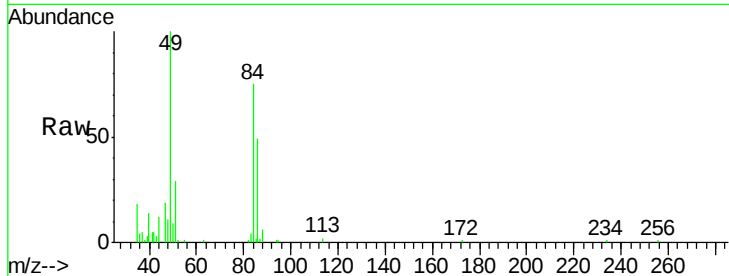




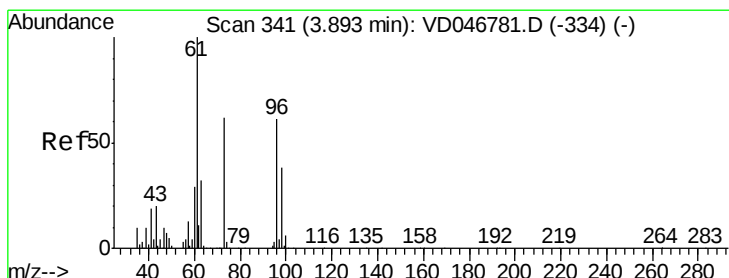
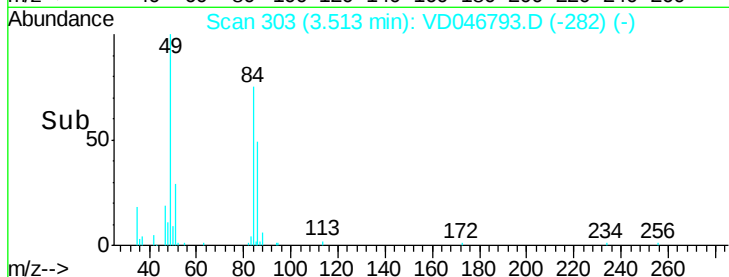
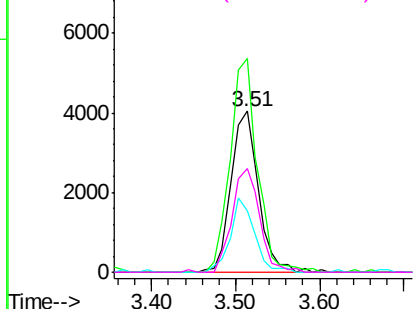
#21
Methylene Chloride
Concen: 5.97 ug/l
RT: 3.51 min Scan# 303
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 84 Resp: 9134
Ion Ratio Lower Upper
84 100
49 132.7 122.1 183.1
51 38.4 33.6 50.4
86 64.8 48.3 72.5

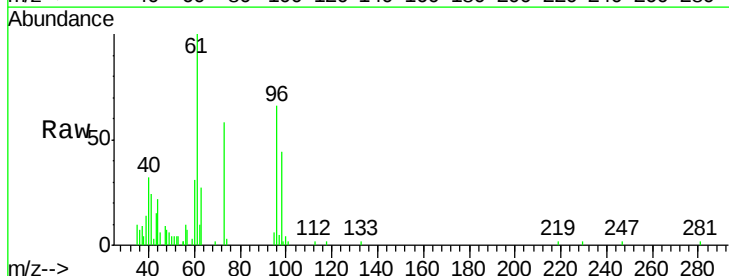


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

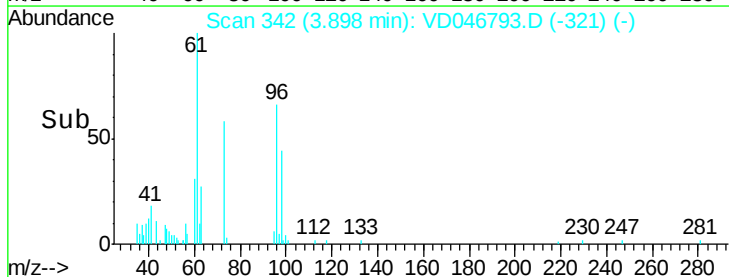
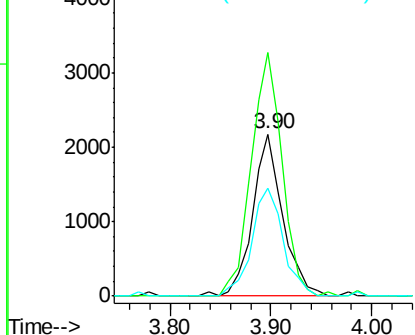


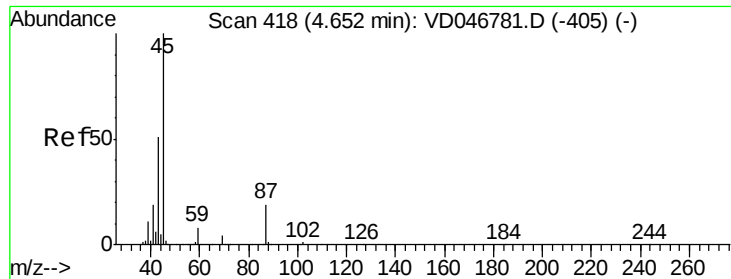
#22
trans-1,2-Dichloroethene
Concen: 3.13 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 96 Resp: 4534
Ion Ratio Lower Upper
96 100
61 150.4 125.8 188.6
98 66.5 54.5 81.7



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

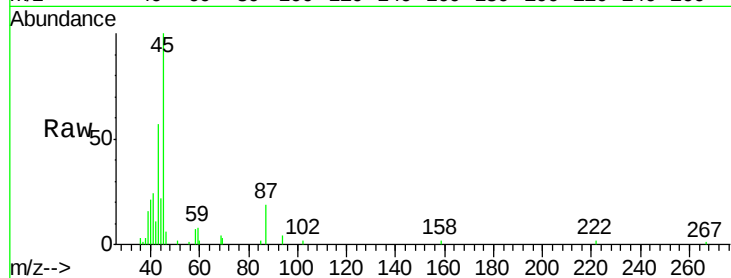




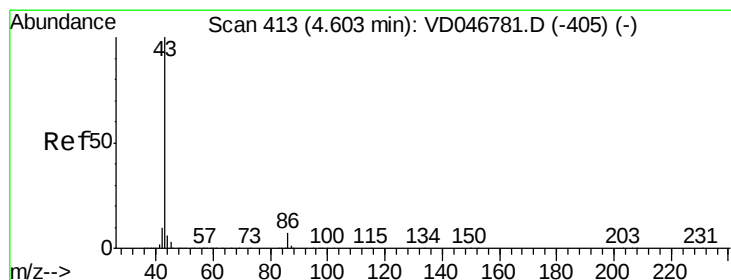
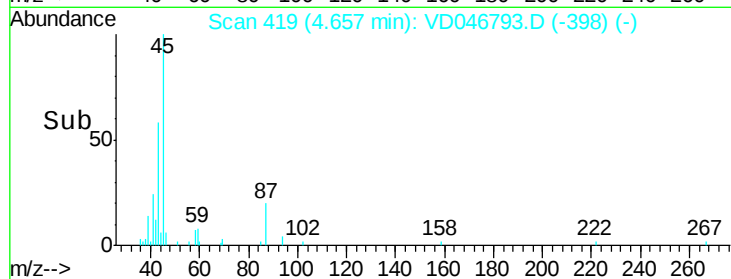
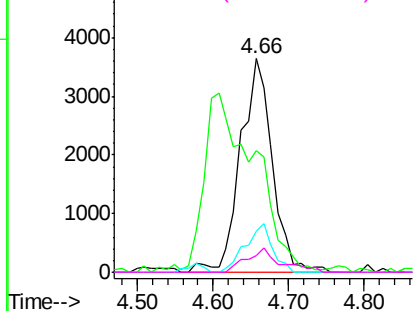
#23
Diisopropyl ether
Concen: 2.46 ug/l
RT: 4.66 min Scan# 419
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:	45	Resp:	10629
Ion	Ratio	Lower	Upper
45	100		
43	56.7	35.9	53.9#
87	19.4	13.0	19.6
59	8.0	7.0	10.6

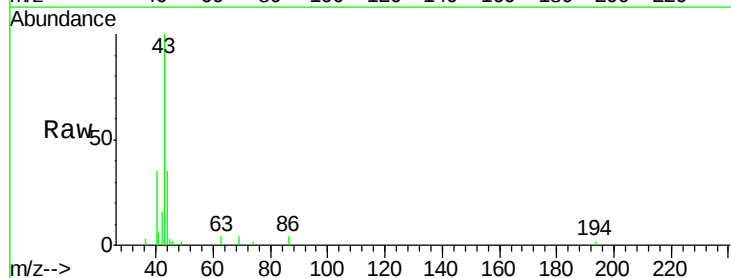


Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

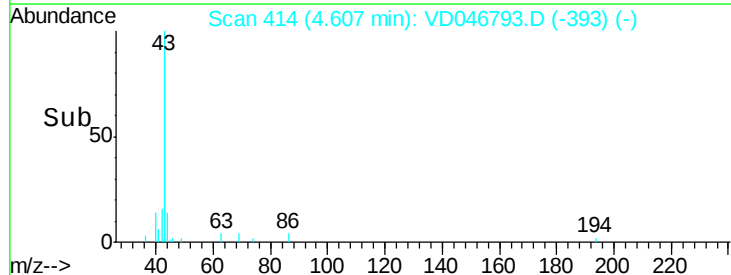
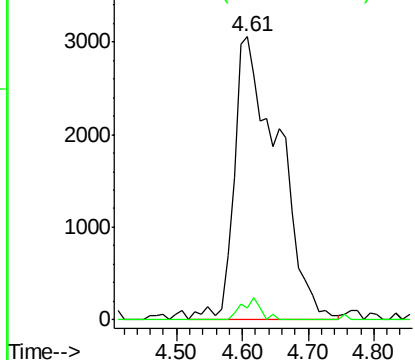


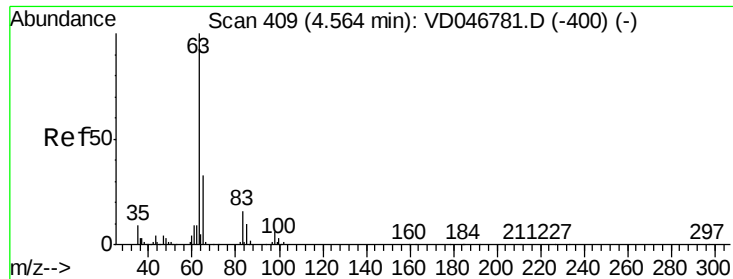
#24
Vinyl Acetate
Concen: 28.29 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:	43	Resp:	14355
Ion	Ratio	Lower	Upper
43	100		
86	4.2	4.9	7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 86.00 (85.70 to 86.70): VDC





#25

1,1-Dichloroethane

Concen: 3.28 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

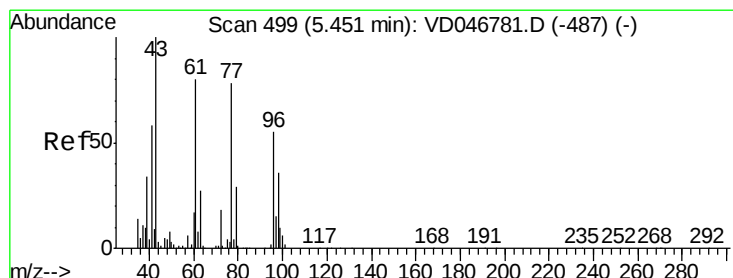
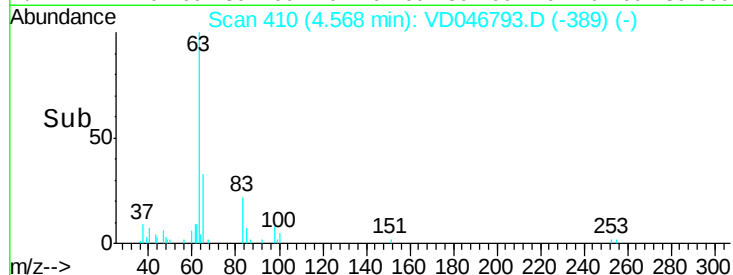
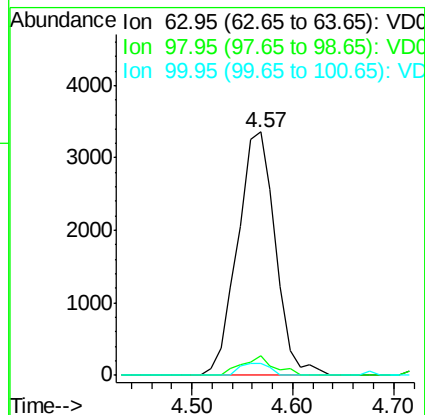
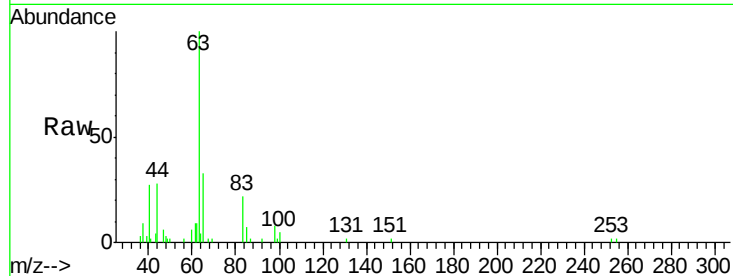
Tgt Ion: 63 Resp: 8758

Ion Ratio Lower Upper

63 100

98 7.9 2.5 7.5#

100 5.1 1.5 4.5#



#26

2-Butanone

Concen: 16.33 ug/l

RT: 5.46 min Scan# 500

Delta R.T. 0.00 min

Lab File: VD046793.D

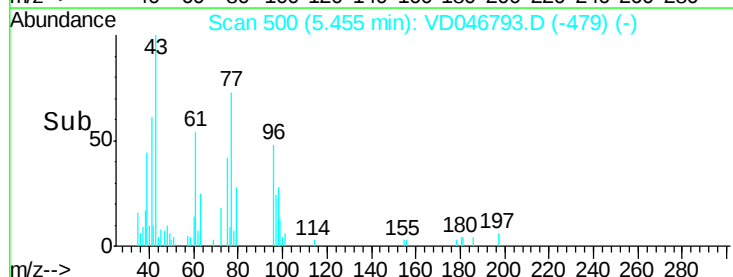
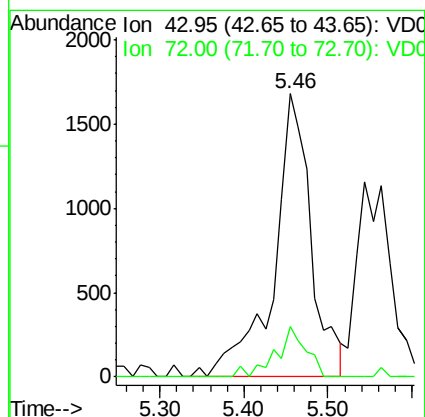
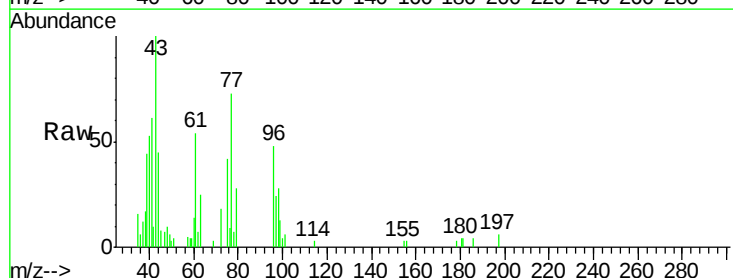
Acq: 18 Sep 2015 20:40

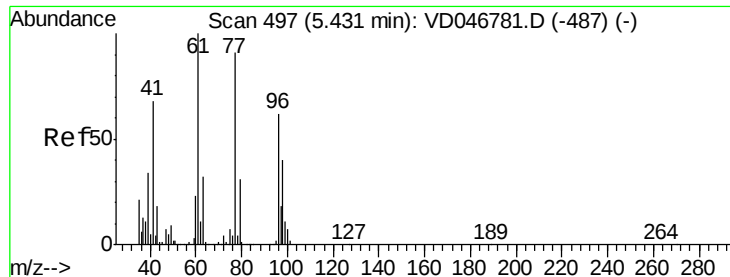
Tgt Ion: 43 Resp: 5167

Ion Ratio Lower Upper

43 100

72 17.7 13.4 20.0

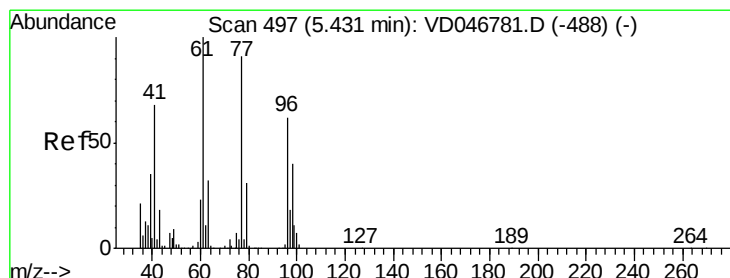
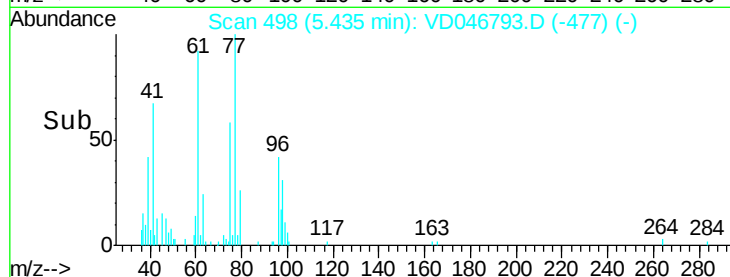
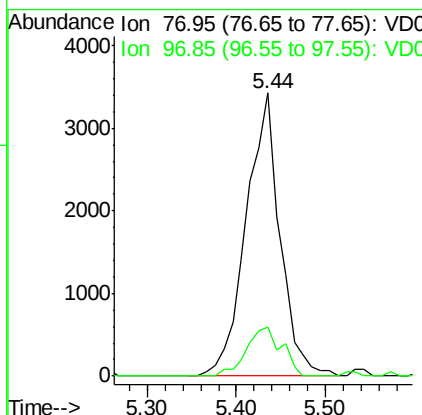
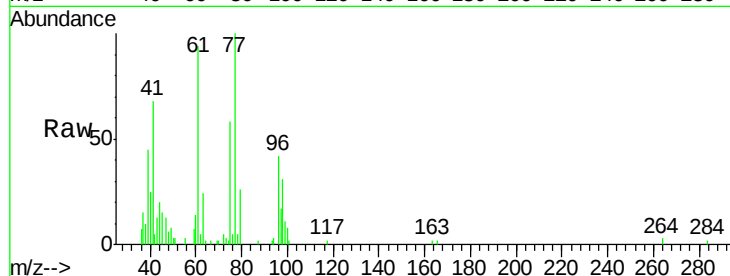




#27
 2,2-Dichloropropane
 Concen: 3.28 ug/l
 RT: 5.44 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

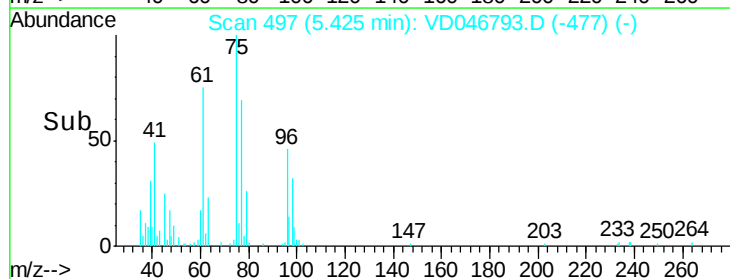
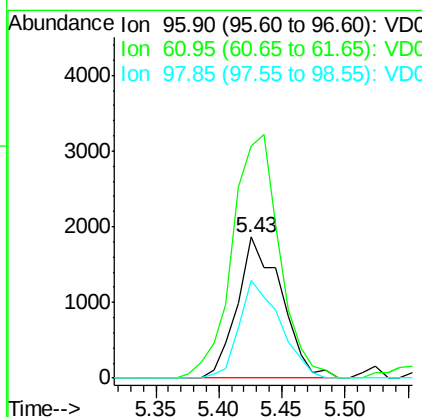
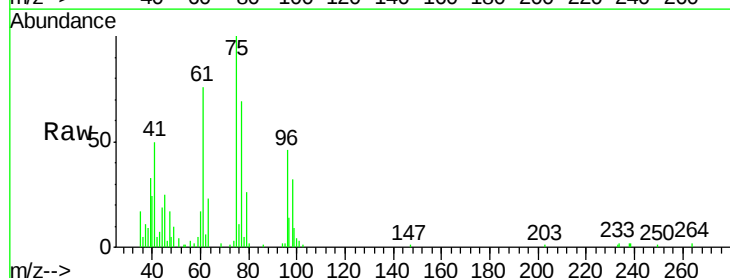
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

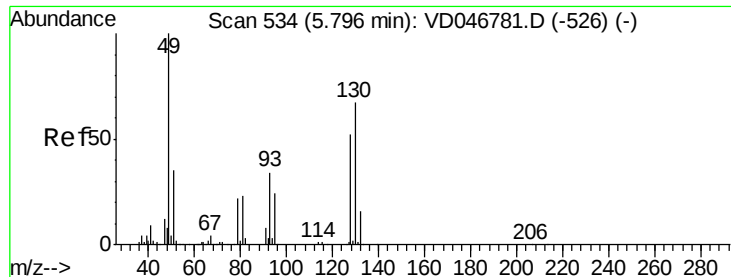
Tgt Ion: 77 Resp: 8996
 Ion Ratio Lower Upper
 77 100
 97 17.1 10.4 31.1



#28
 cis-1,2-Dichloroethene
 Concen: 3.00 ug/l
 RT: 5.43 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion: 96 Resp: 4519
 Ion Ratio Lower Upper
 96 100
 61 164.7 0.0 348.0
 98 69.5 0.0 128.8





#29

Bromochloromethane

Concen: 4.46 ug/l

RT: 5.79 min Scan# 534

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

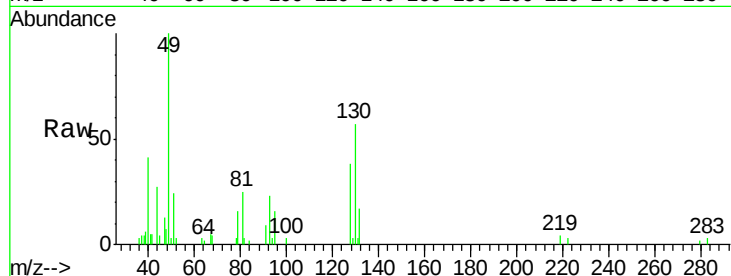
Tgt Ion: 49 Resp: 4689

Ion Ratio Lower Upper

49 100

129 3.2 0.0 2.8#

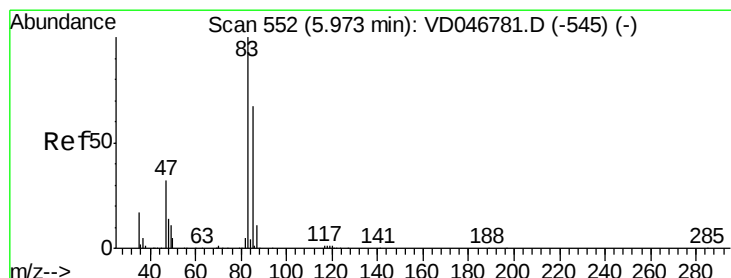
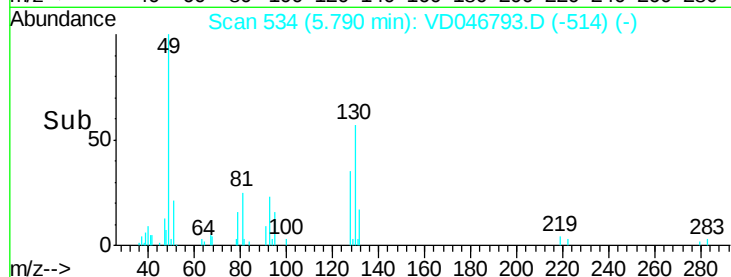
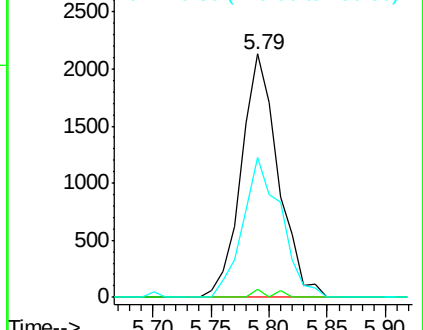
130 57.4 50.2 75.4



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#30

Chloroform

Concen: 3.40 ug/l

RT: 5.98 min Scan# 553

Delta R.T. 0.00 min

Lab File: VD046793.D

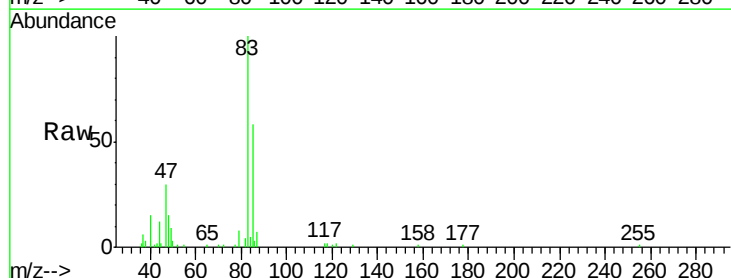
Acq: 18 Sep 2015 20:40

Tgt Ion: 83 Resp: 10993

Ion Ratio Lower Upper

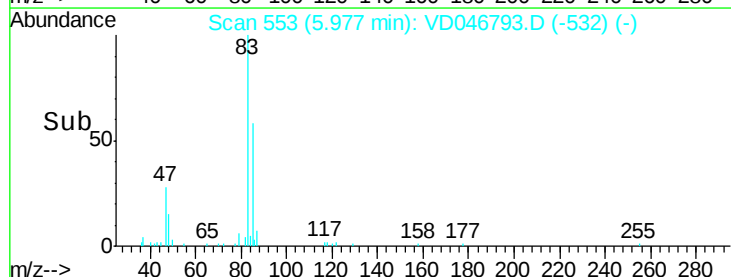
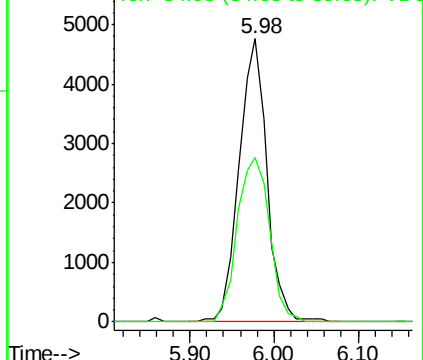
83 100

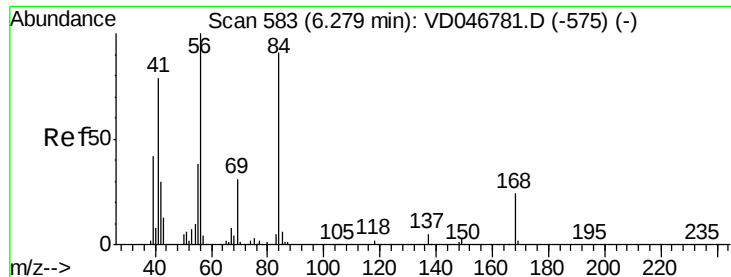
85 57.9 52.5 78.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

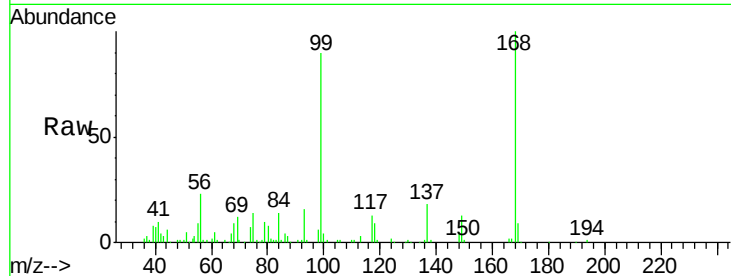




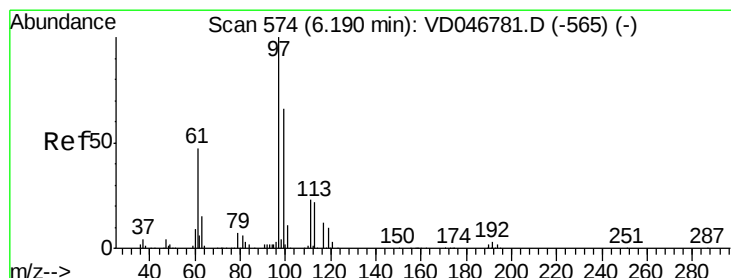
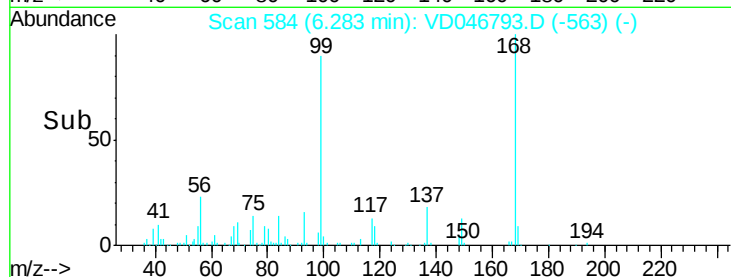
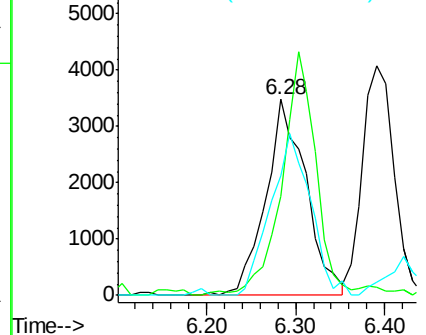
#31
Cyclohexane
Concen: 4.36 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 56 Resp: 10898
Ion Ratio Lower Upper
56 100
69 50.8 23.4 35.0#
84 60.8 63.8 95.8#

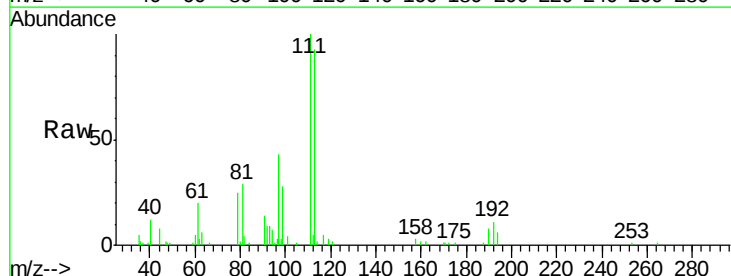


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

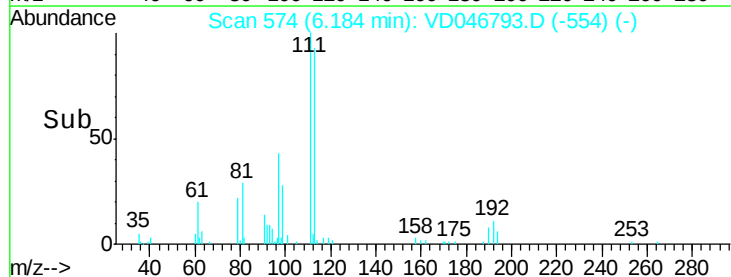
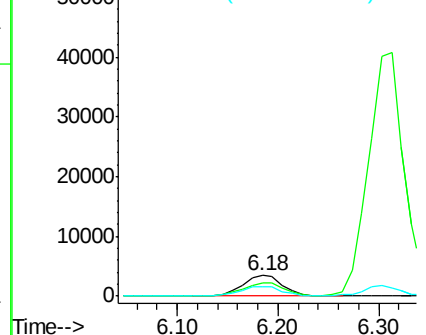


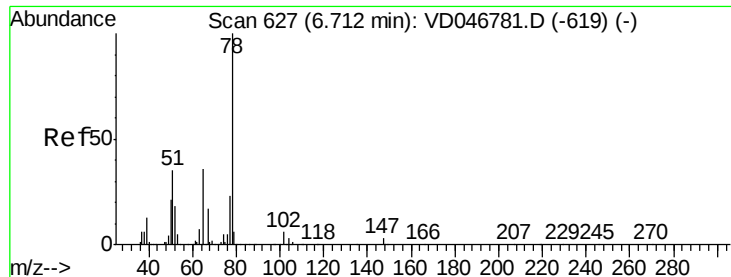
#32
1,1,1-Trichloroethane
Concen: 3.22 ug/l
RT: 6.18 min Scan# 574
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 97 Resp: 9276
Ion Ratio Lower Upper
97 100
99 64.2 50.2 75.4
61 47.6 38.6 57.8



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 3.22 ug/l

RT: 6.72 min Scan# 628

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

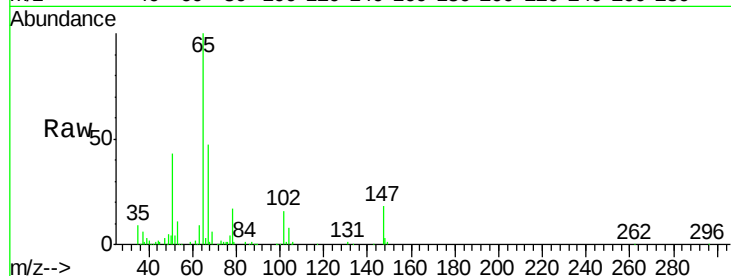
LOD-SOIL2015-01

Tgt Ion: 65 Resp: 105018

Ion Ratio Lower Upper

65 100

67 47.3 0.0 105.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.72

50000

40000

30000

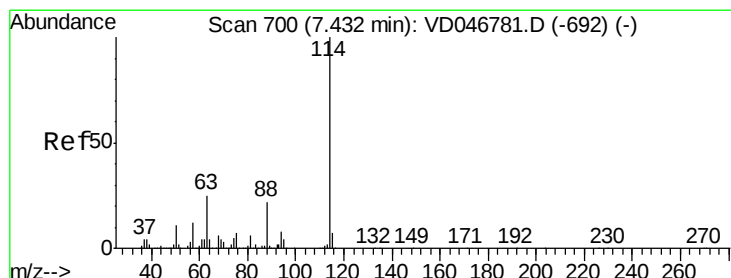
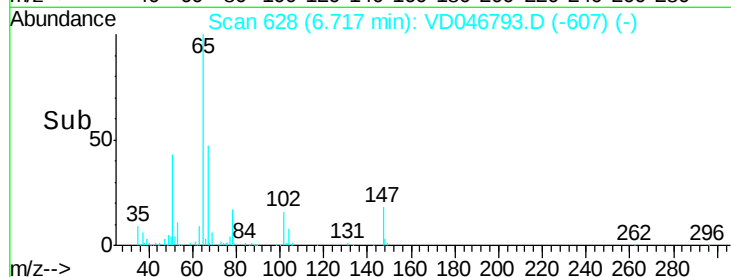
20000

10000

0

Time-->

6.60 6.70 6.80



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

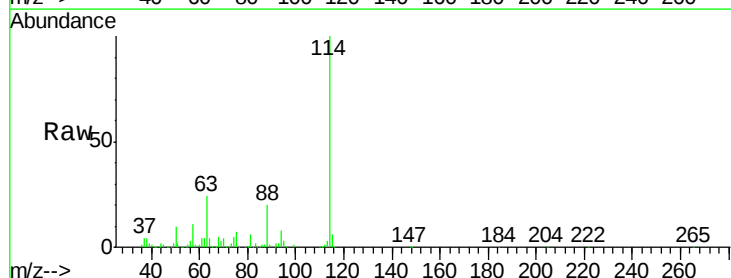
Tgt Ion: 114 Resp: 220411

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.8

88 20.4 0.0 43.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.44

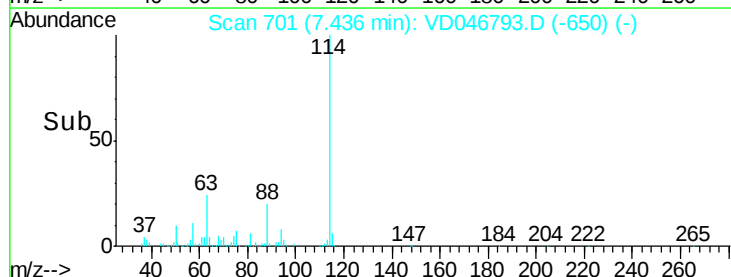
100000

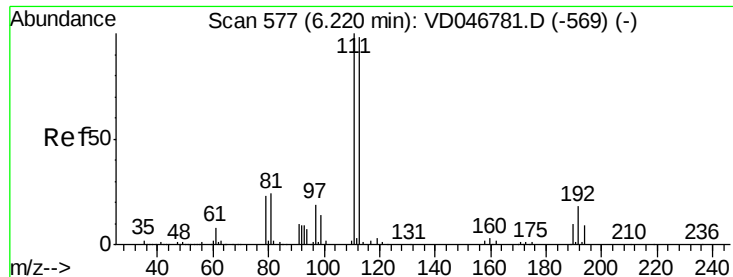
50000

0

Time-->

7.30 7.40 7.50 7.60





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.21 min Scan# 577

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

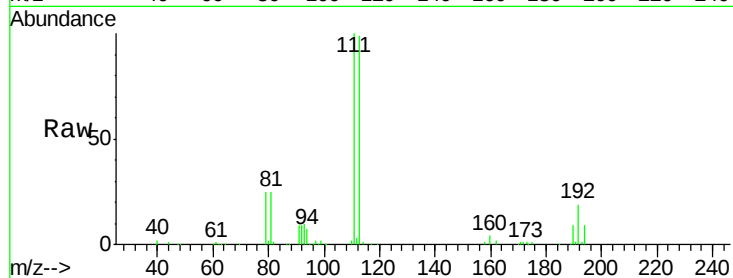
Tgt Ion:113 Resp: 102492

Ion Ratio Lower Upper

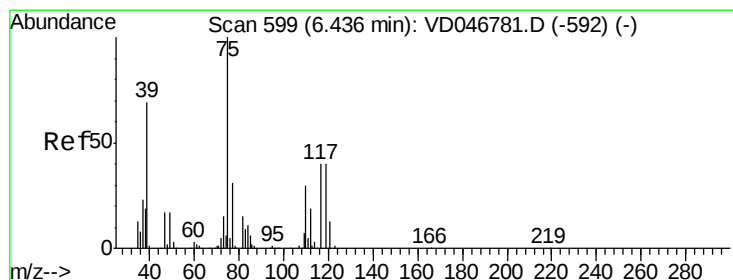
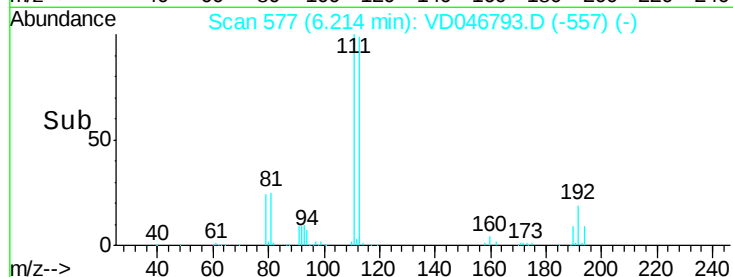
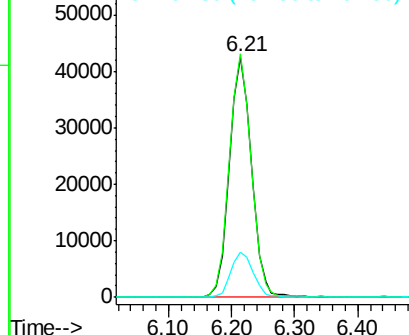
113 100

111 101.5 79.4 119.0

192 19.0 14.6 22.0



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 2.88 ug/l

RT: 6.43 min Scan# 599

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

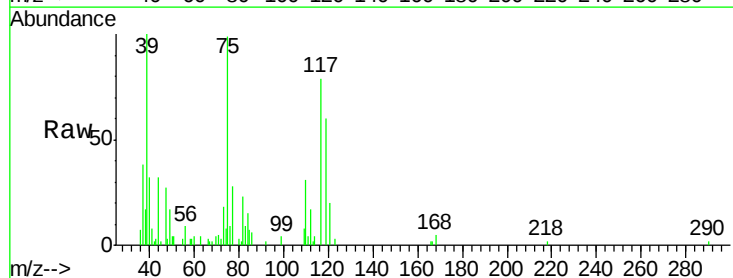
Tgt Ion: 75 Resp: 7421

Ion Ratio Lower Upper

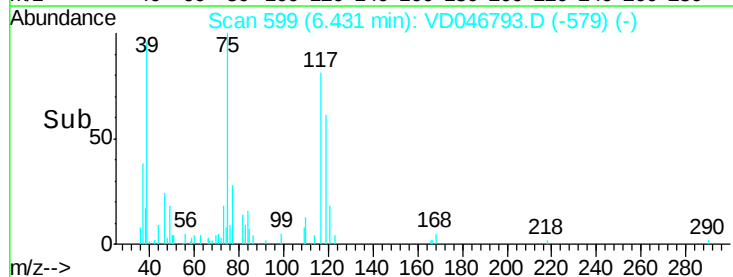
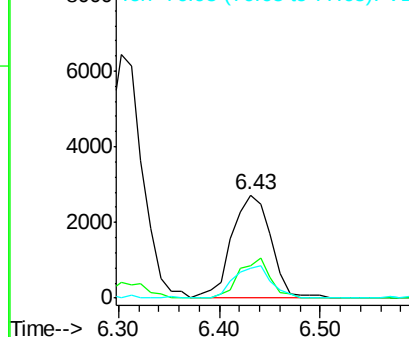
75 100

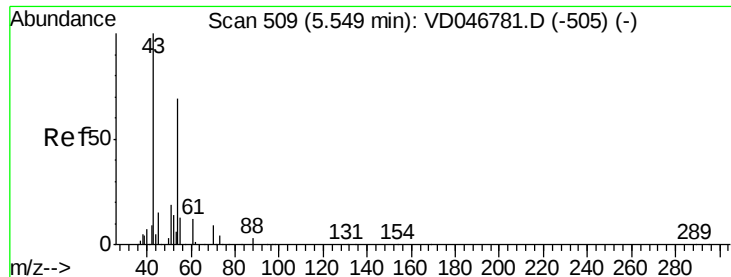
110 31.2 13.7 41.0

77 28.4 24.7 37.1



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

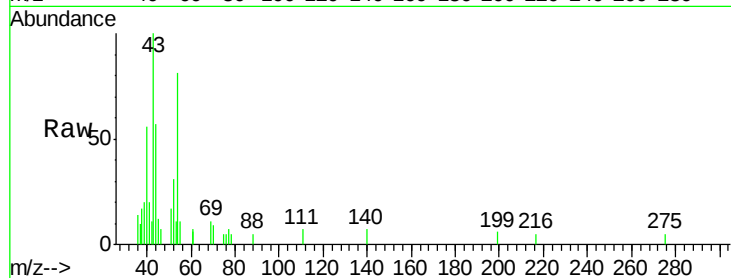




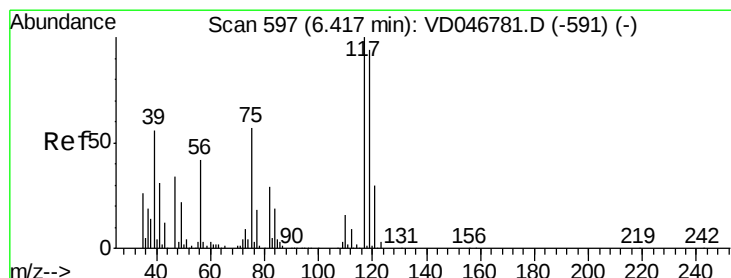
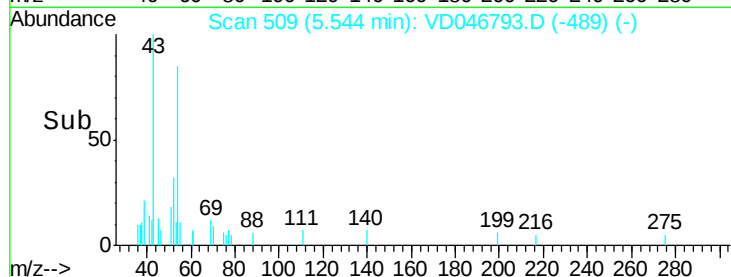
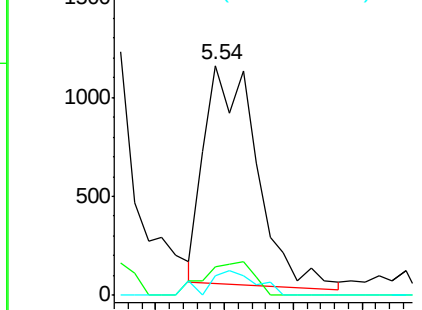
#37
Ethyl Acetate
Concen: 3.55 ug/l
RT: 5.54 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 2935
Ion Ratio Lower Upper
43 100
61 12.4 9.4 14.2
70 8.8 6.0 9.0

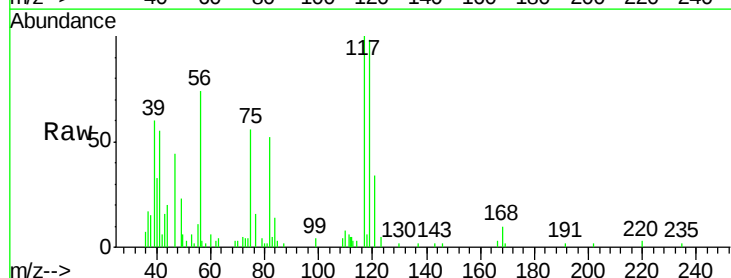


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

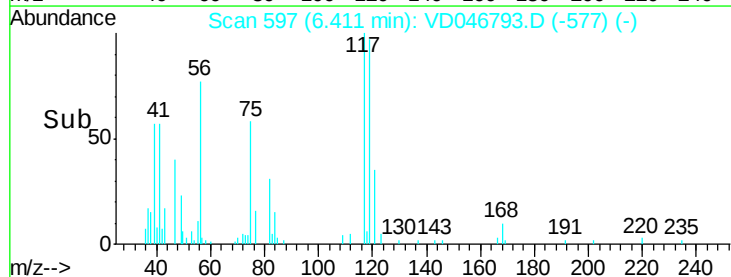
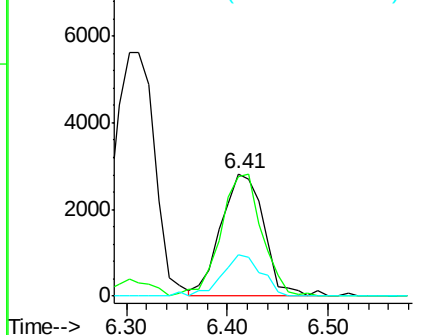


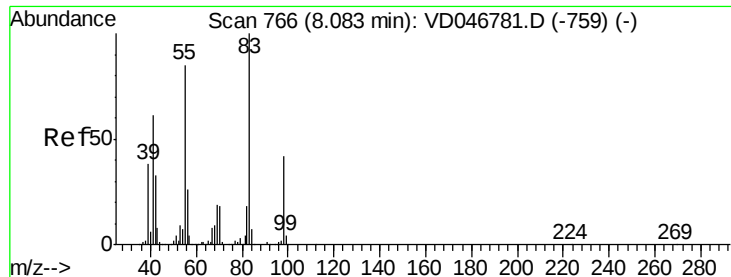
#38
Carbon Tetrachloride
Concen: 3.12 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 117 Resp: 8347
Ion Ratio Lower Upper
117 100
119 97.6 76.2 114.4
121 33.6 24.5 36.7



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

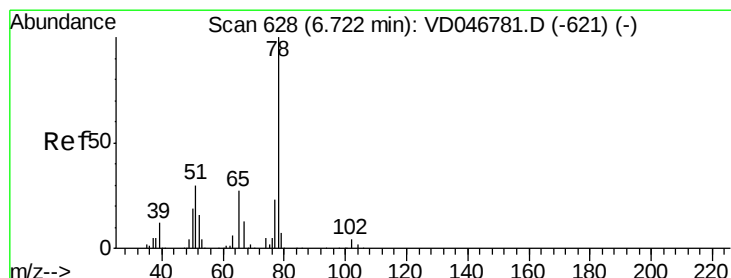
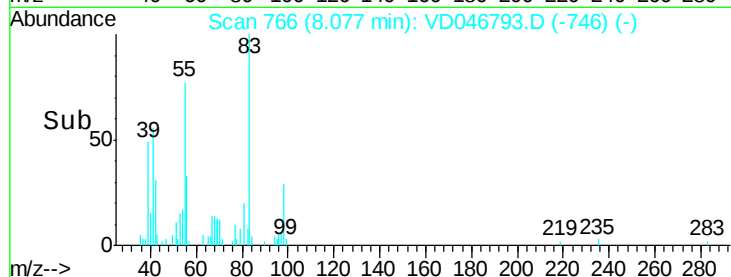
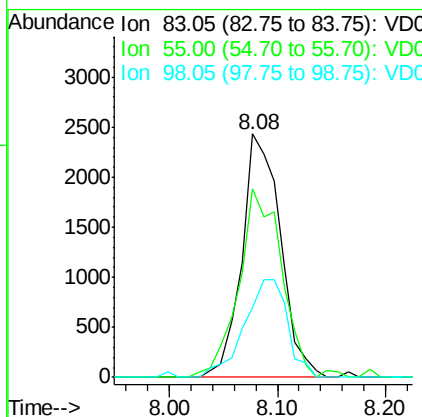
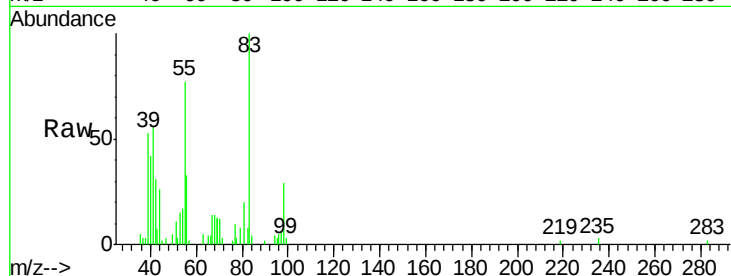




#39
Methylcyclohexane
Concen: 2.32 ug/l
RT: 8.08 min Scan# 766
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

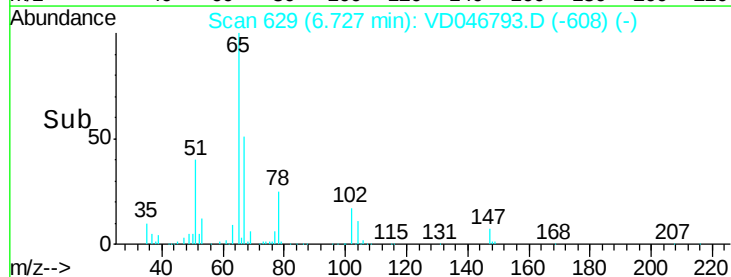
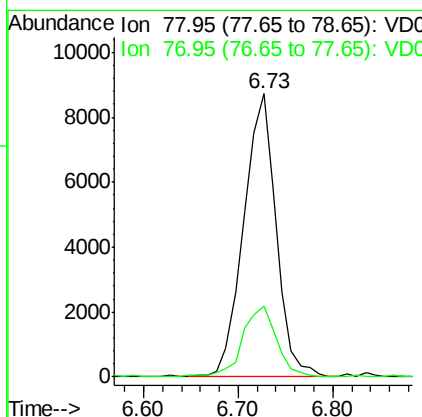
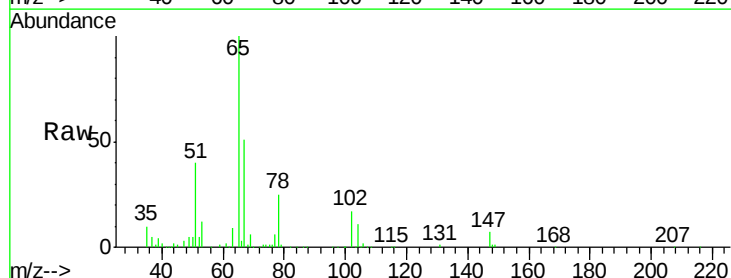
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

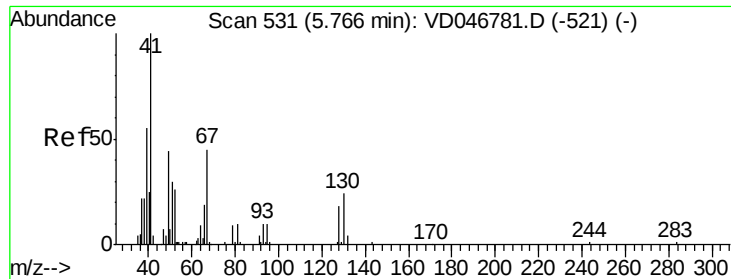
Tgt Ion: 83 Resp: 6057
Ion Ratio Lower Upper
83 100
55 77.3 71.1 106.7
98 28.7 34.6 51.8#



#40
Benzene
Concen: 3.16 ug/l
RT: 6.73 min Scan# 629
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 78 Resp: 20772
Ion Ratio Lower Upper
78 100
77 24.9 19.9 29.9

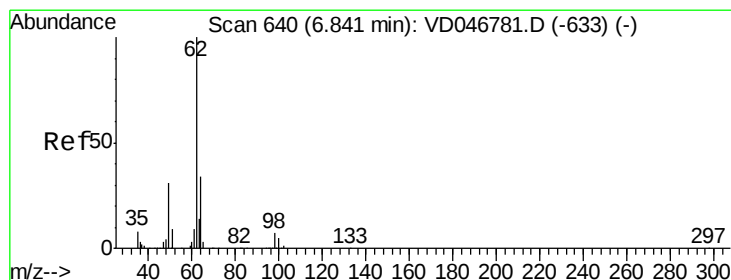
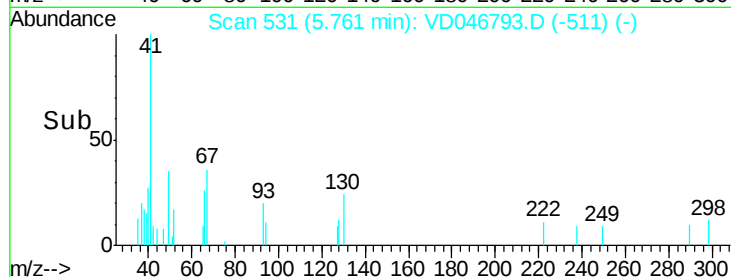
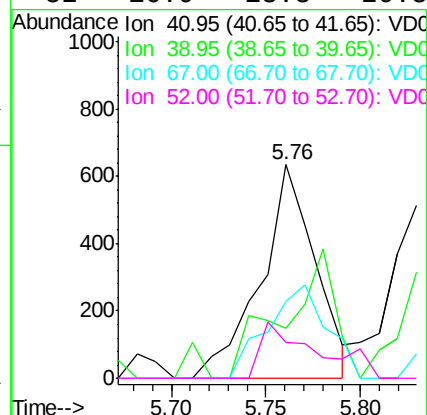
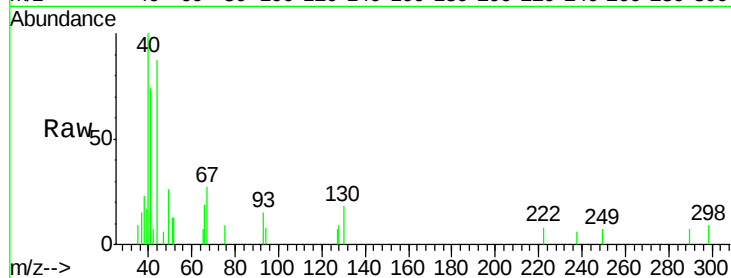




#41
Methacrylonitrile
Concen: 2.75 ug/l
RT: 5.76 min Scan# 531
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

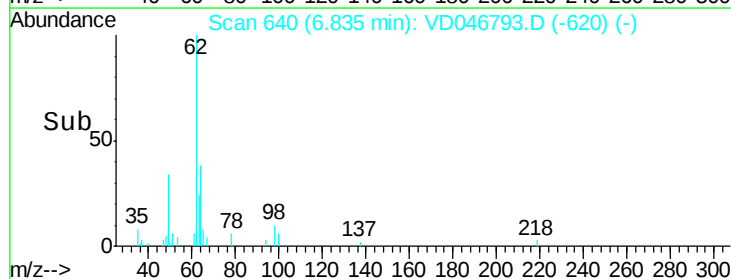
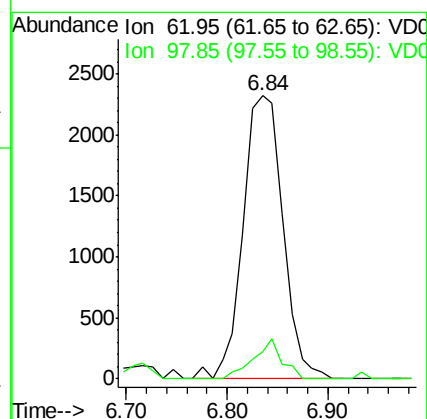
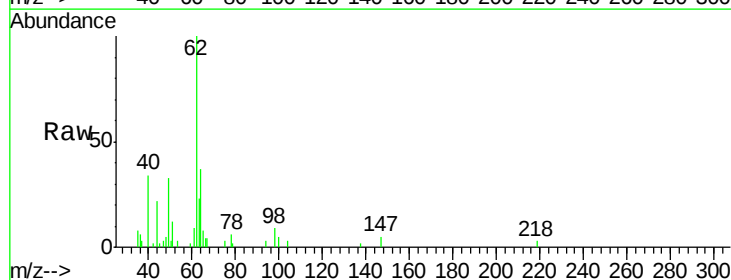
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

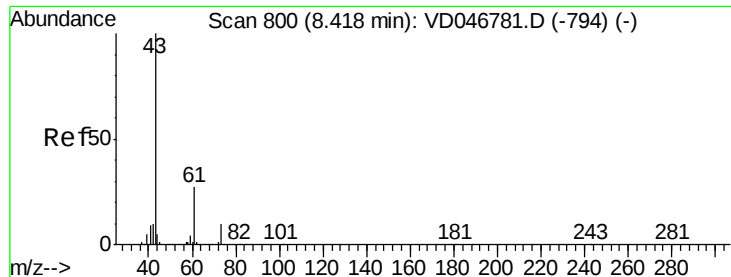
Tgt Ion:	41	Resp:	1276
Ion	Ratio	Lower	Upper
41	100		
39	23.5	40.2	60.4#
67	36.1	32.0	48.0
52	16.9	13.8	20.8



#42
1,2-Dichloroethane
Concen: 3.12 ug/l
RT: 6.84 min Scan# 640
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:	62	Resp:	6381
Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	16.2





#43

Isopropyl Acetate

Concen: 2.41 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

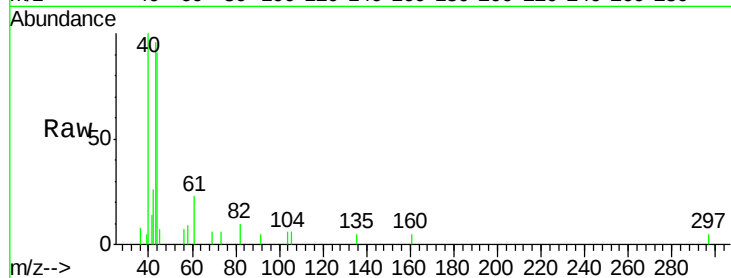
Tgt Ion: 43 Resp: 2630

Ion Ratio Lower Upper

43 100

61 24.6 19.5 29.3

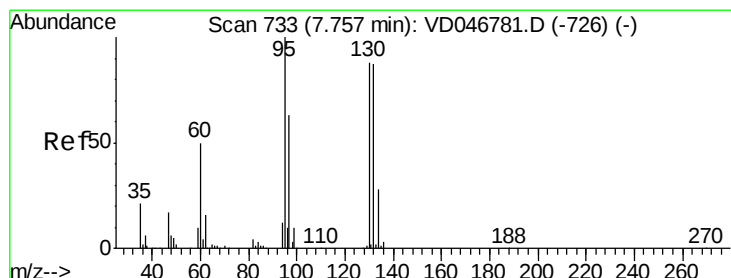
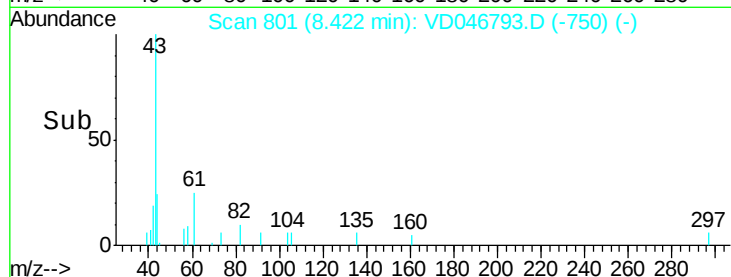
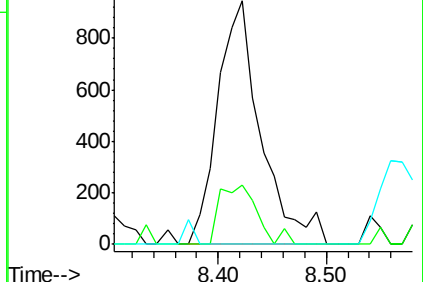
87 0.0 0.2 0.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.96 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VD046793.D

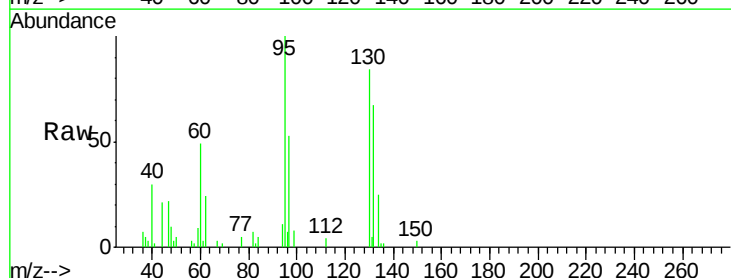
Acq: 18 Sep 2015 20:40

Tgt Ion: 130 Resp: 4869

Ion Ratio Lower Upper

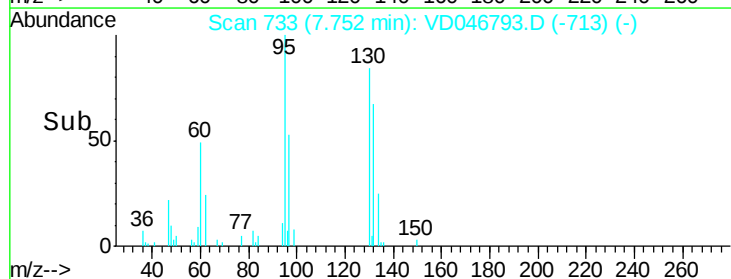
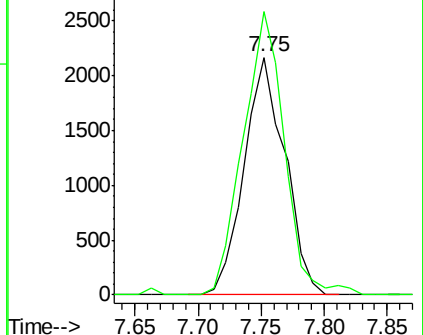
130 100

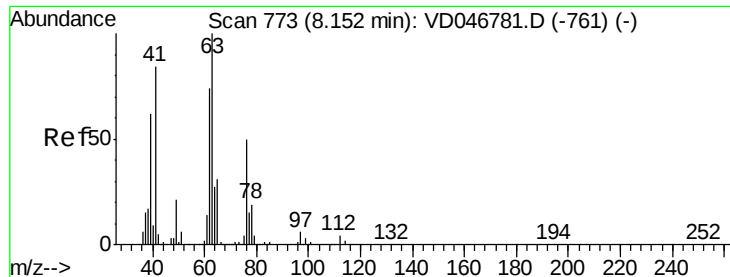
95 119.1 0.0 229.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.83 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

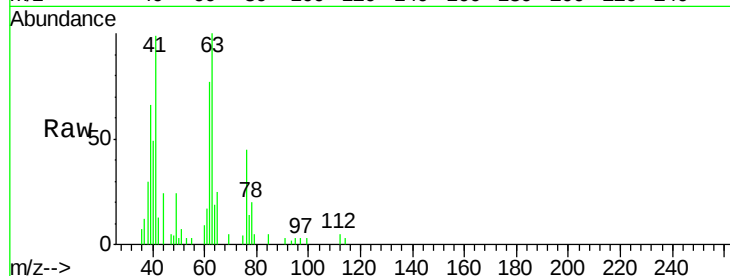
LOD-SOIL2015-01

Tgt Ion: 63 Resp: 4615

Ion Ratio Lower Upper

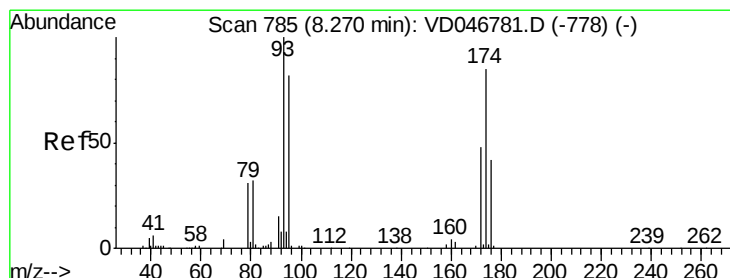
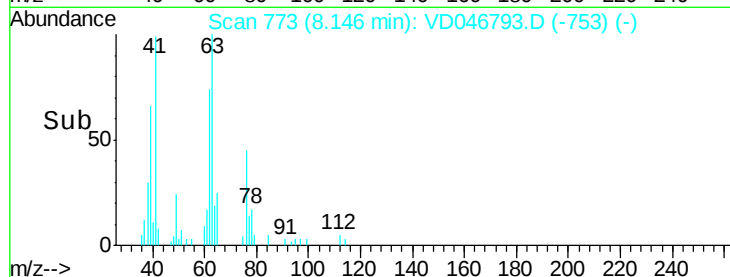
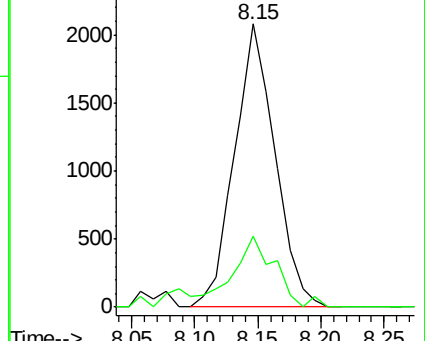
63 100

65 25.3 25.1 37.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 2.99 ug/l

RT: 8.27 min Scan# 786

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

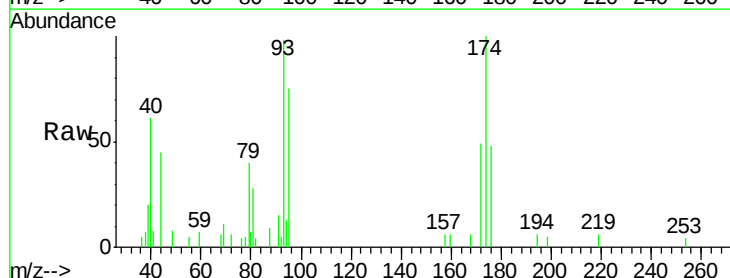
Tgt Ion: 93 Resp: 2765

Ion Ratio Lower Upper

93 100

95 76.0 70.2 105.2

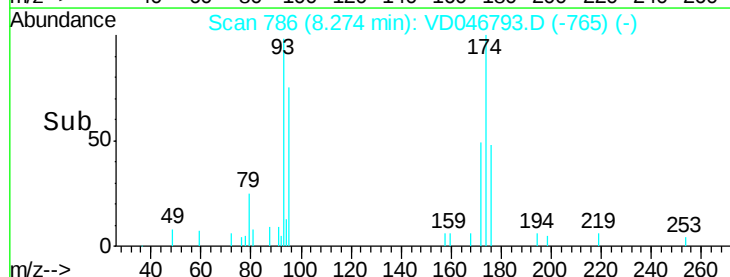
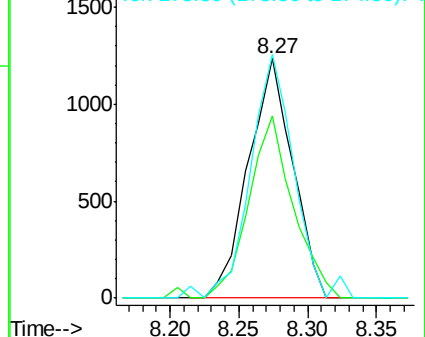
174 101.7 79.0 118.4

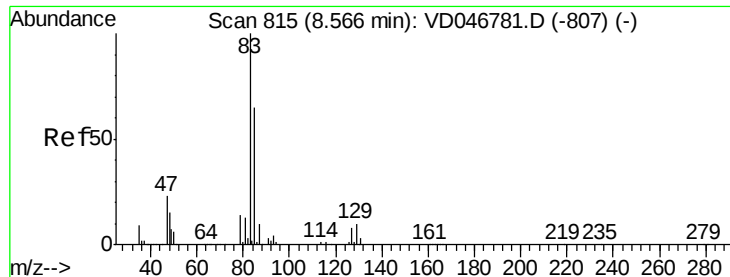


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 3.04 ug/l

RT: 8.56 min Scan# 815

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

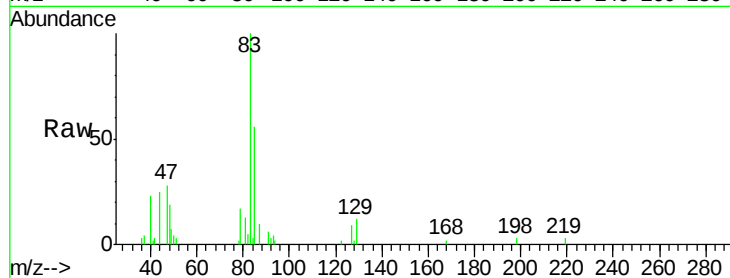
Tgt Ion: 83 Resp: 7372

Ion Ratio Lower Upper

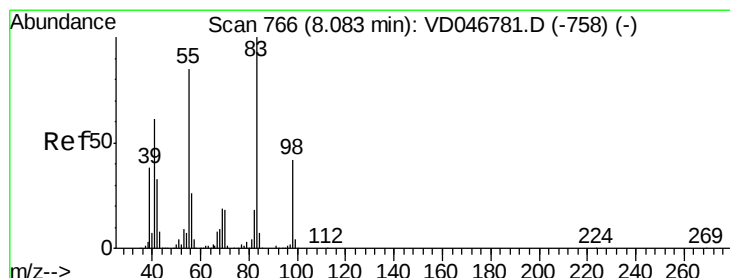
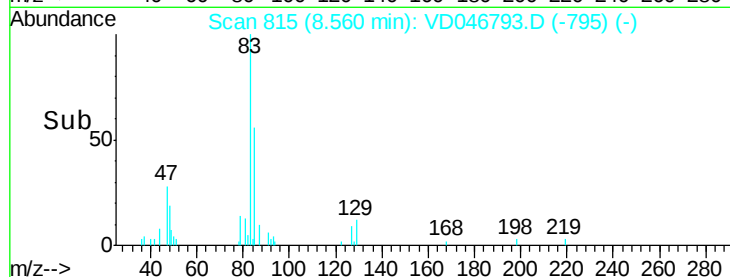
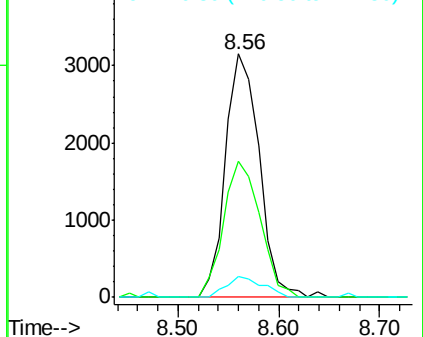
83 100

85 55.7 52.6 78.8

127 8.5 5.7 8.5#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.77 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

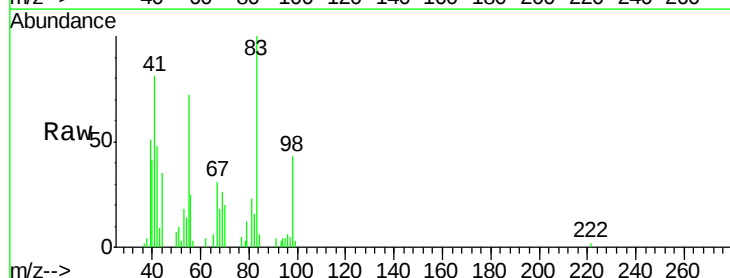
Tgt Ion: 41 Resp: 4620

Ion Ratio Lower Upper

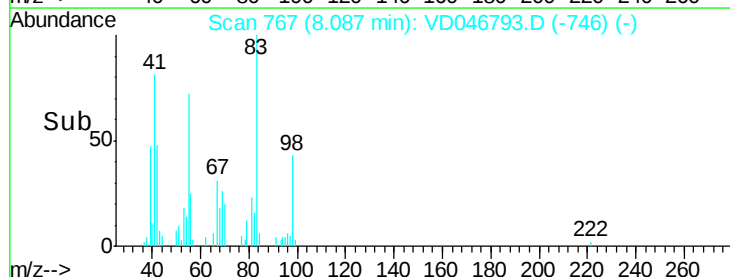
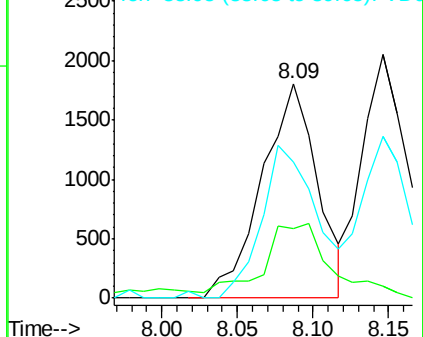
41 100

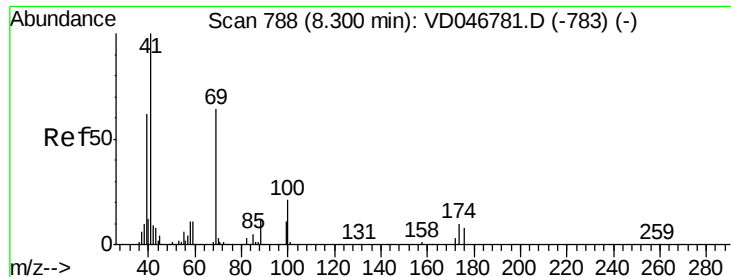
69 32.4 25.3 37.9

39 63.3 47.4 71.0



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 22.21 ug/l

RT: 8.29 min Scan# 788

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

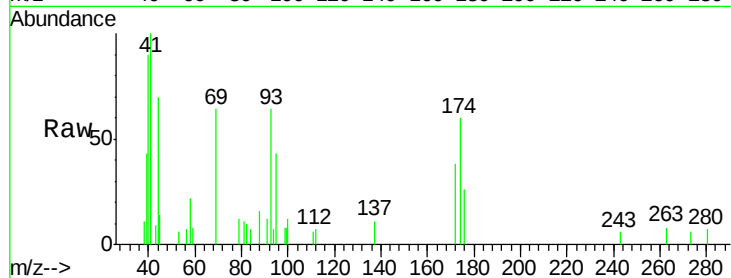
Tgt Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 59.8 50.0 75.0

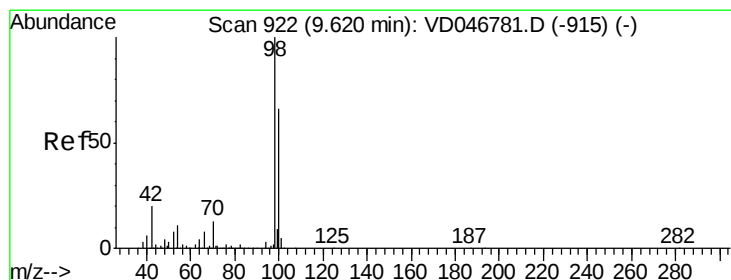
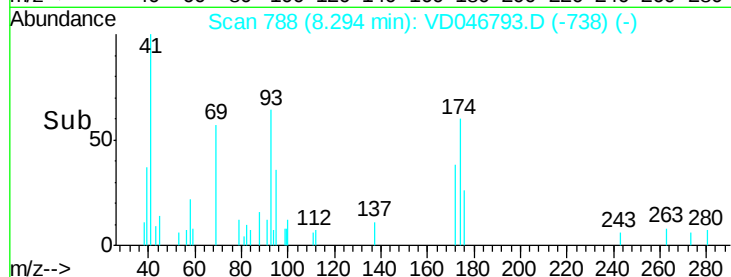
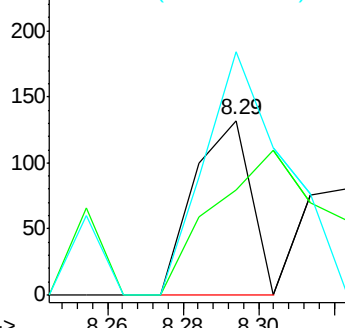
58 139.4 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 22.21 ug/l

RT: 9.61 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD046793.D

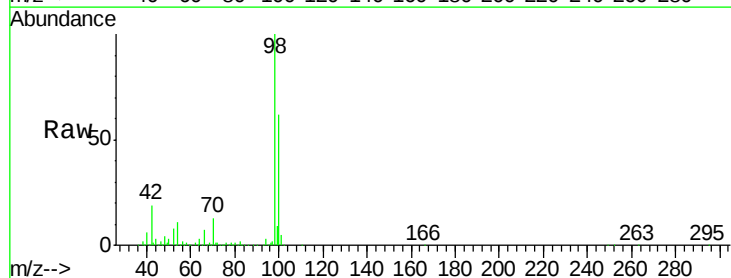
Acq: 18 Sep 2015 20:40

Tgt Ion: 98 Resp: 322975

Ion Ratio Lower Upper

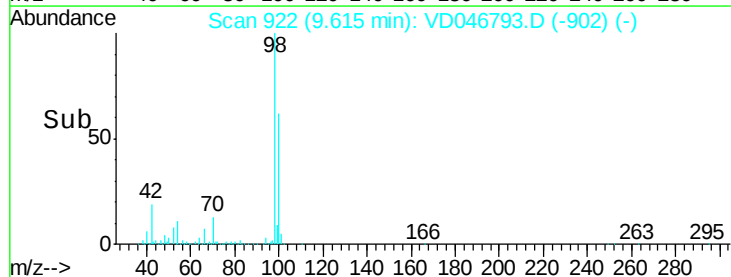
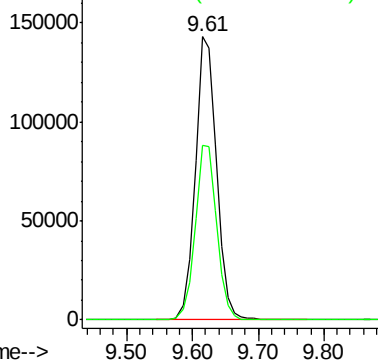
98 100

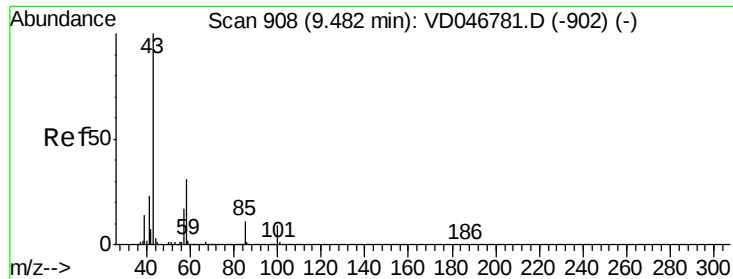
100 61.7 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

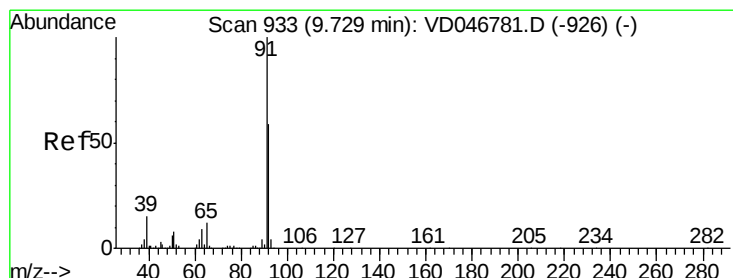
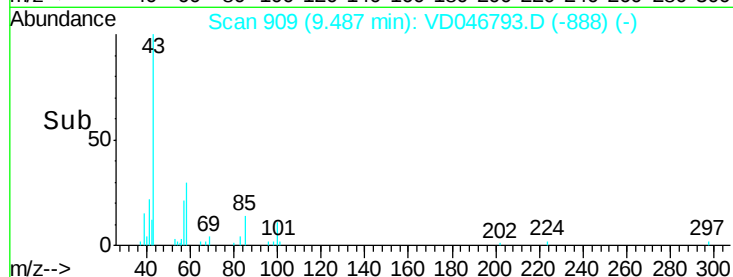
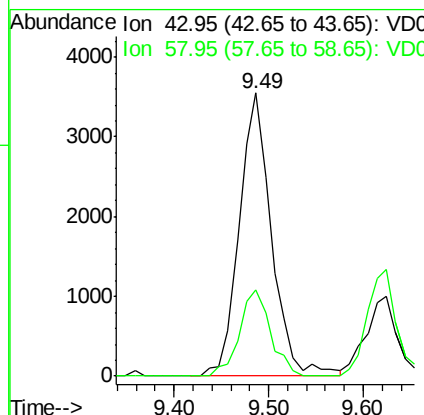
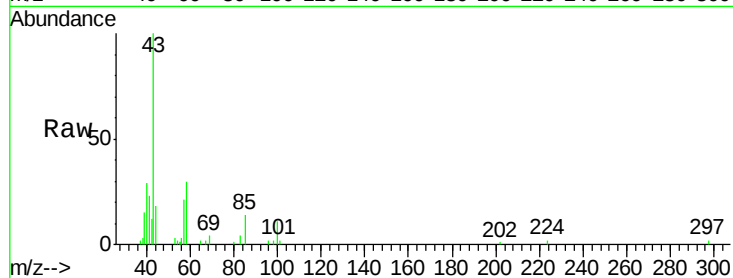




#51
4-Methyl-2-Pentanone
Concen: 10.63 ug/l
RT: 9.49 min Scan# 909
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

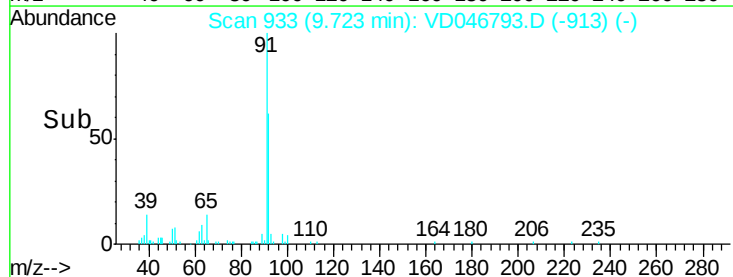
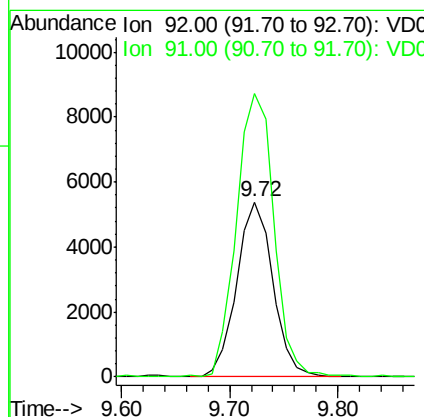
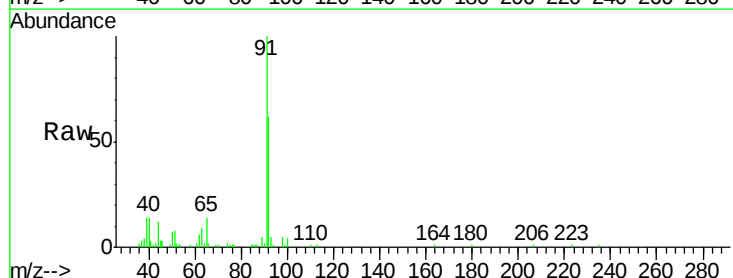
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

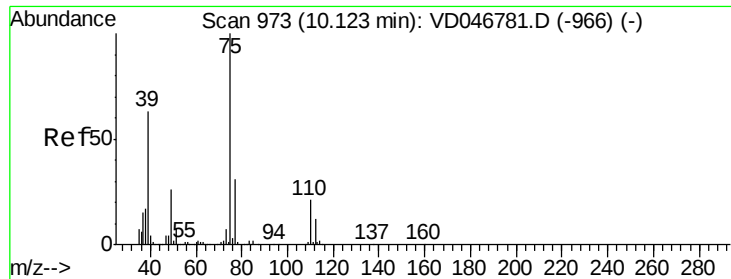
Tgt Ion: 43 Resp: 8379
Ion Ratio Lower Upper
43 100
58 30.4 22.2 33.2



#52
Toluene
Concen: 3.10 ug/l
RT: 9.72 min Scan# 933
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 92 Resp: 12560
Ion Ratio Lower Upper
92 100
91 161.7 139.4 209.0





#53

t-1,3-Dichloropropene

Concen: 2.75 ug/l

RT: 10.13 min Scan# 974

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

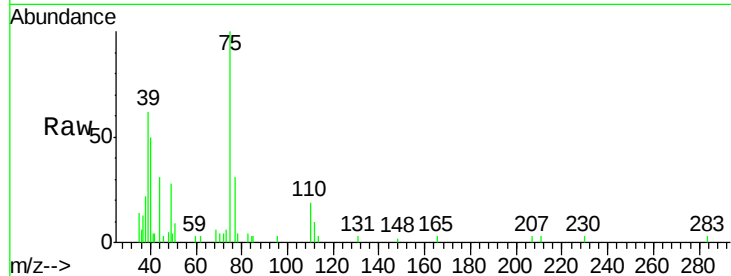
LOD-SOIL2015-01

Tgt Ion: 75 Resp: 4938

Ion Ratio Lower Upper

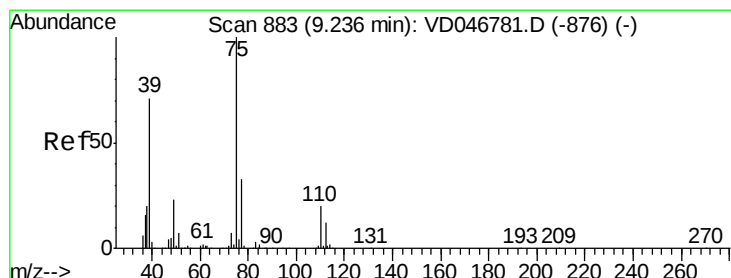
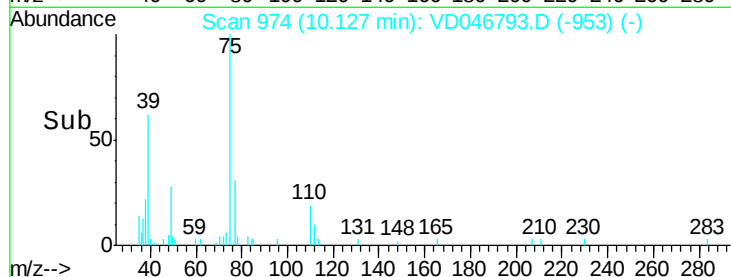
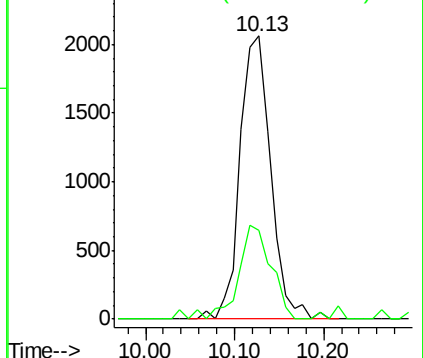
75 100

77 31.1 27.6 41.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 2.54 ug/l

RT: 9.24 min Scan# 884

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

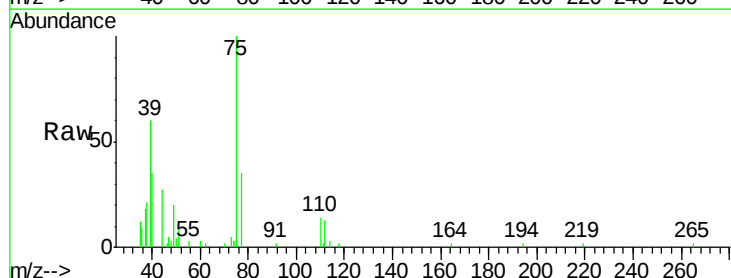
Tgt Ion: 75 Resp: 5865

Ion Ratio Lower Upper

75 100

77 35.1 23.8 35.6

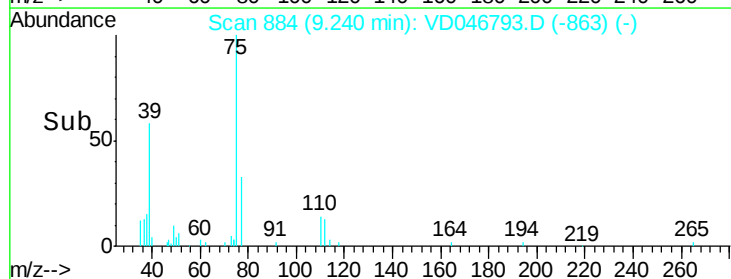
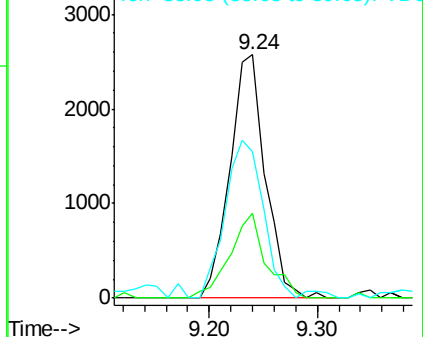
39 60.3 53.0 79.6

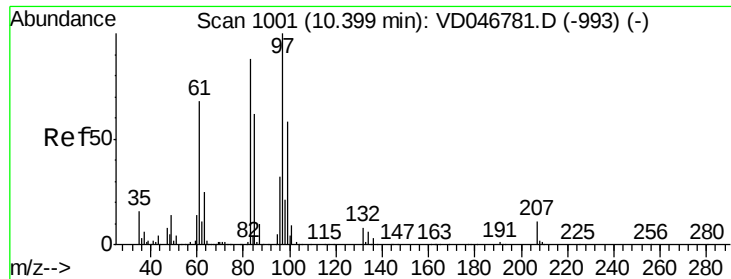


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 3.15 ug/l

RT: 10.40 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion: 97 Resp: 3303

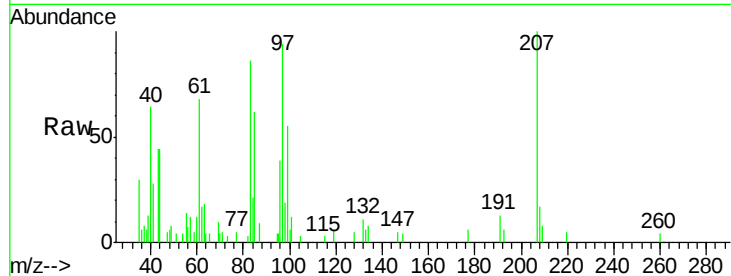
Ion Ratio Lower Upper

97 100

83 91.4 75.3 112.9

85 66.4 50.9 76.3

99 58.8 46.9 70.3

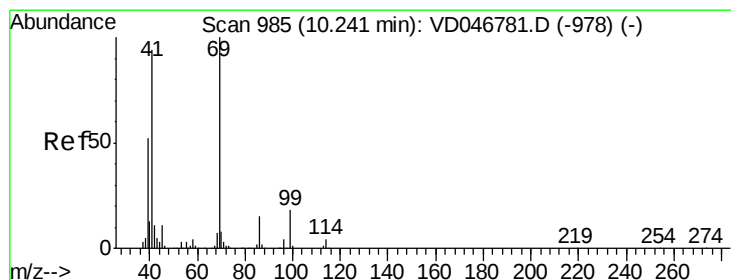
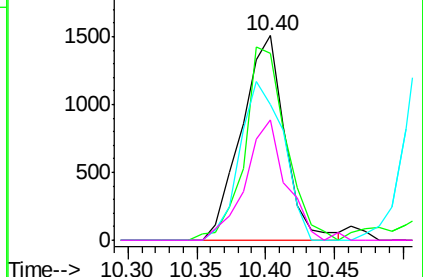
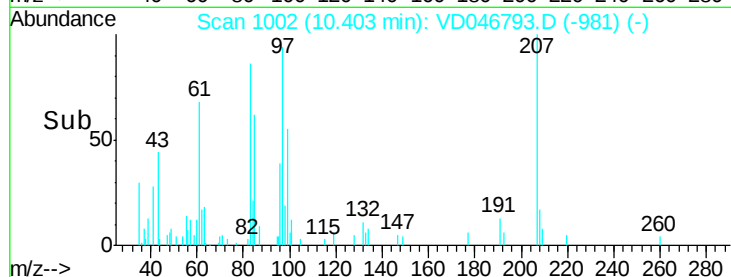


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 5.99 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

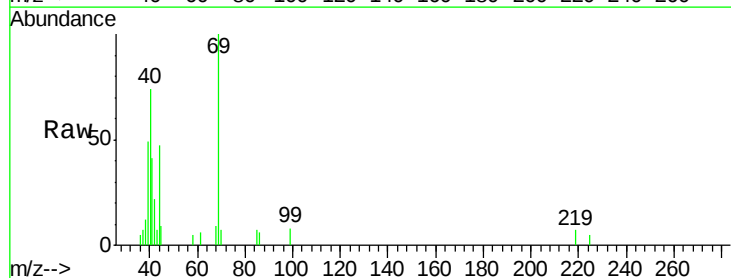
Tgt Ion: 69 Resp: 2499

Ion Ratio Lower Upper

69 100

41 41.2 75.4 113.0#

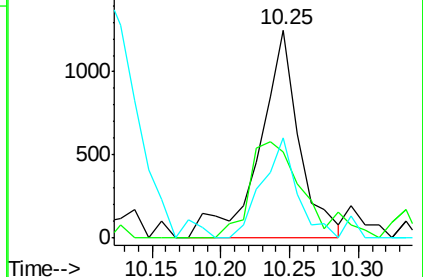
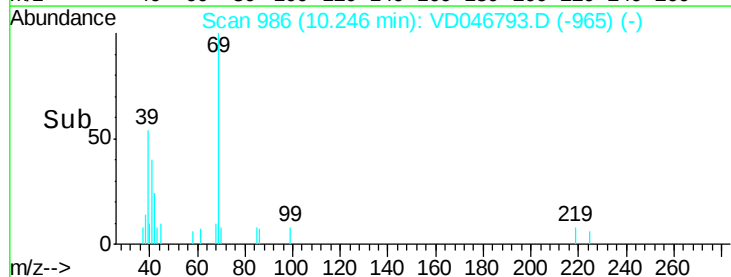
39 48.5 41.0 61.4

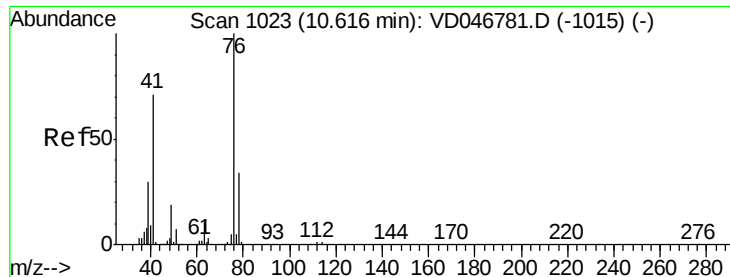


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 2.75 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

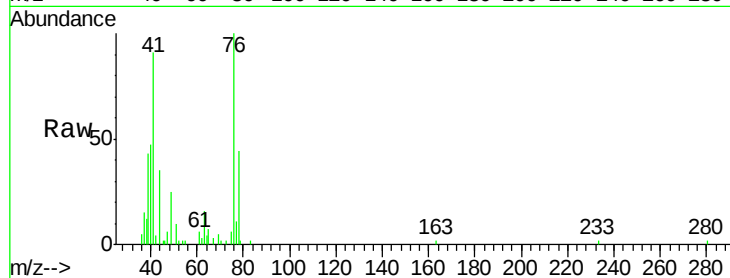
LOD-SOIL2015-01

Tgt Ion: 76 Resp: 5372

Ion Ratio Lower Upper

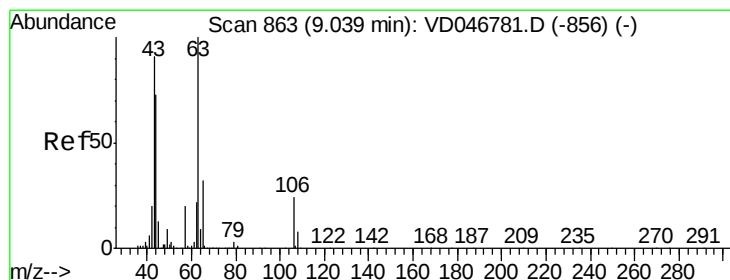
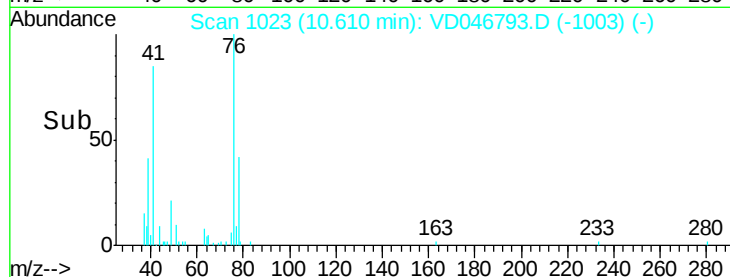
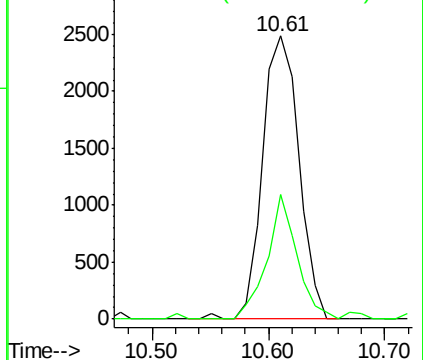
76 100

78 44.2 26.6 39.8#



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 15.90 ug/l

RT: 9.03 min Scan# 863

Delta R.T. -0.00 min

Lab File: VD046793.D

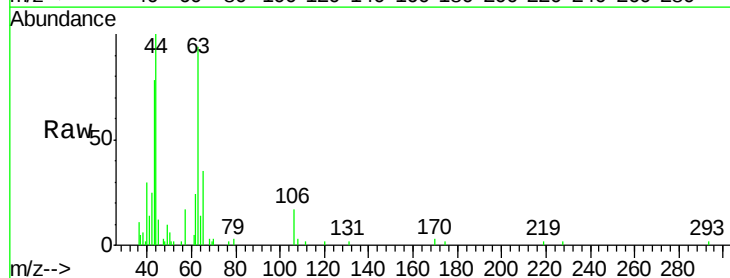
Acq: 18 Sep 2015 20:40

Tgt Ion: 63 Resp: 5085

Ion Ratio Lower Upper

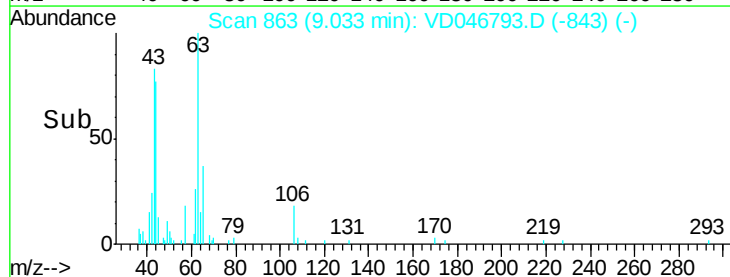
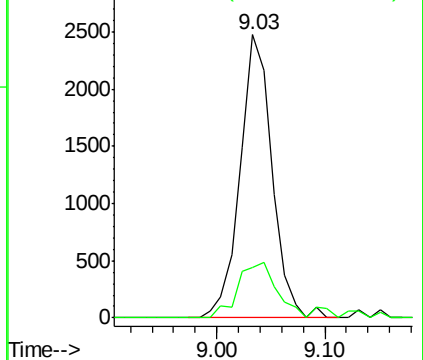
63 100

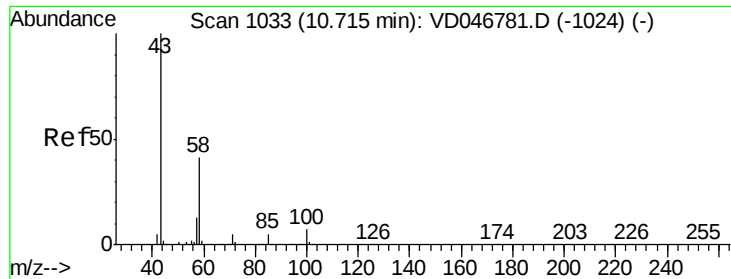
106 17.8 17.8 26.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

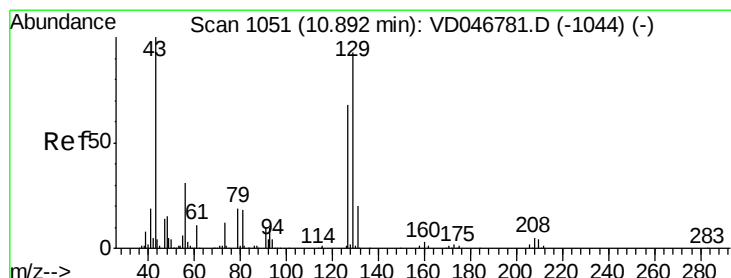
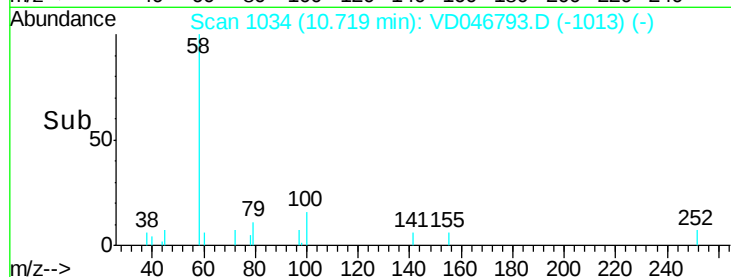
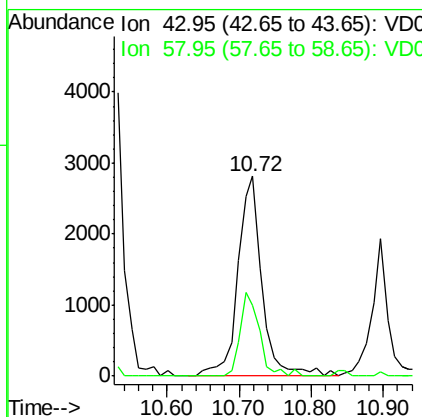
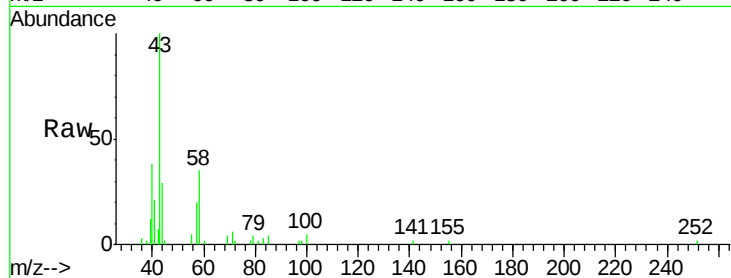




#59
2-Hexanone
Concen: 11.56 ug/l
RT: 10.72 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

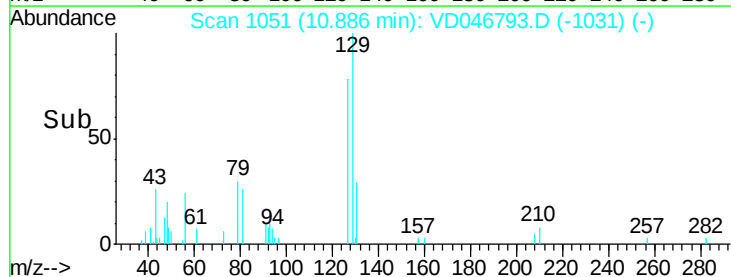
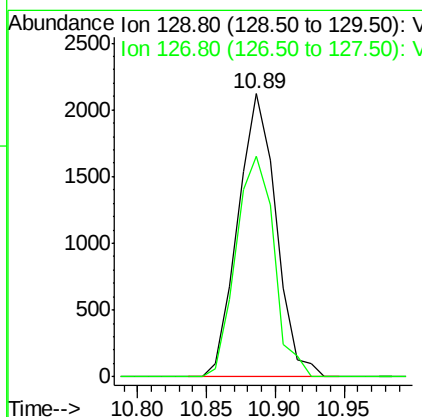
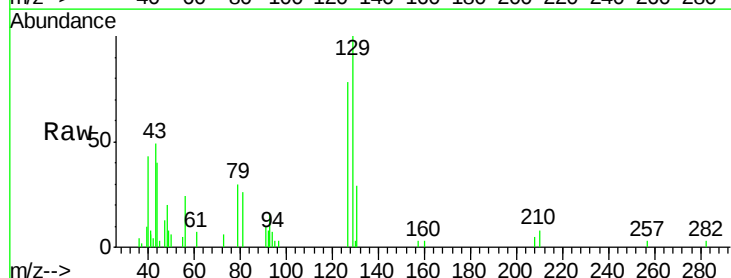
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

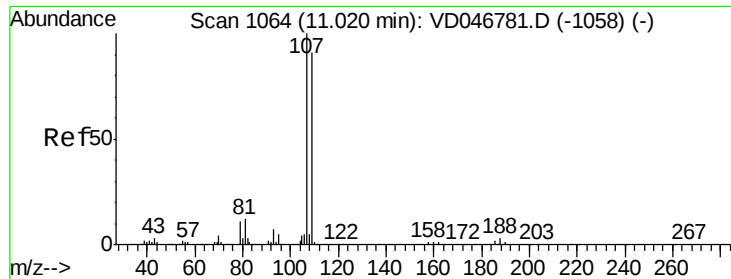
Tgt Ion: 43 Resp: 6583
Ion Ratio Lower Upper
43 100
58 35.5 18.6 55.8



#60
Dibromochloromethane
Concen: 2.85 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 129 Resp: 4101
Ion Ratio Lower Upper
129 100
127 77.9 38.2 114.6





#61

1,2-Dibromoethane

Concen: 2.88 ug/l

RT: 11.01 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

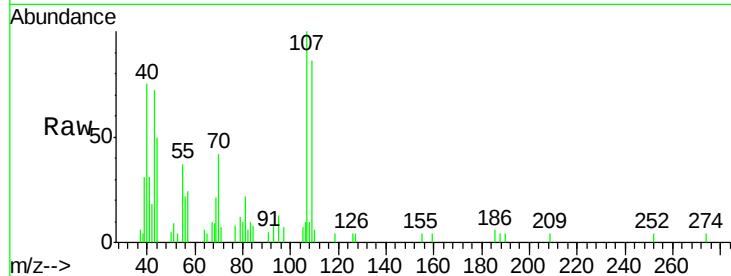
LOD-SOIL2015-01

Tgt Ion: 107 Resp: 2983

Ion Ratio Lower Upper

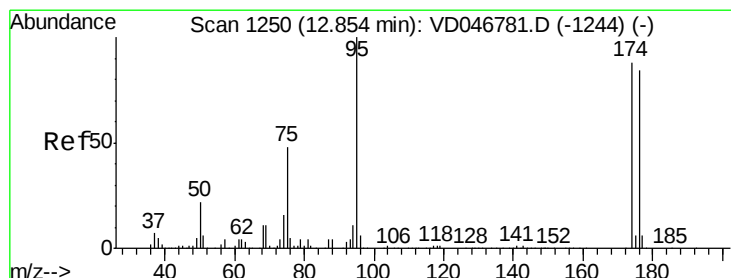
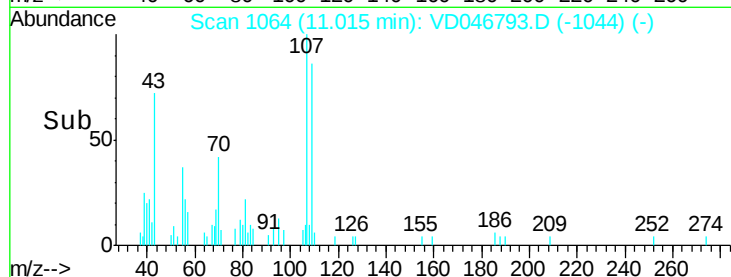
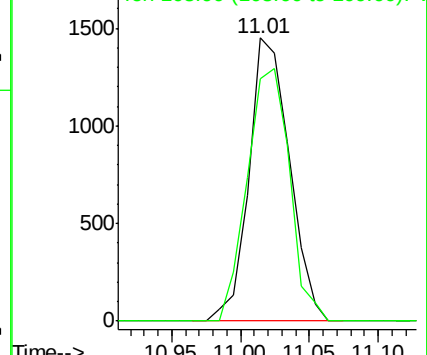
107 100

109 85.7 71.4 107.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 2.88 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

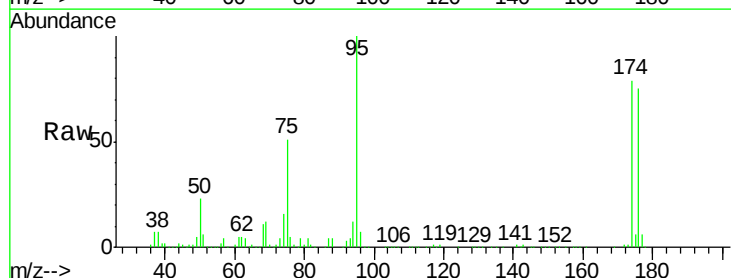
Tgt Ion: 95 Resp: 122815

Ion Ratio Lower Upper

95 100

174 78.8 0.0 149.8

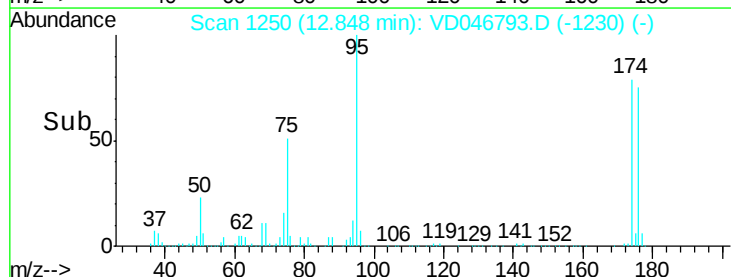
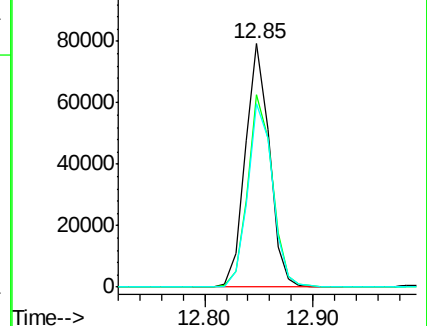
176 75.1 0.0 143.4

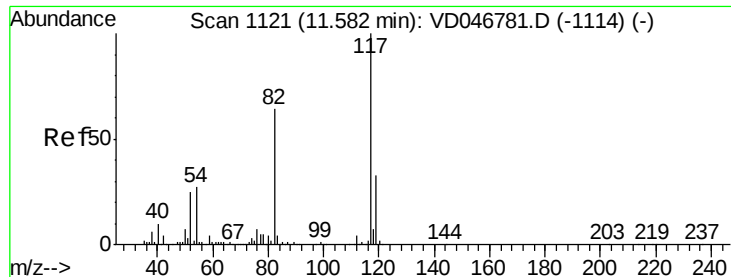


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

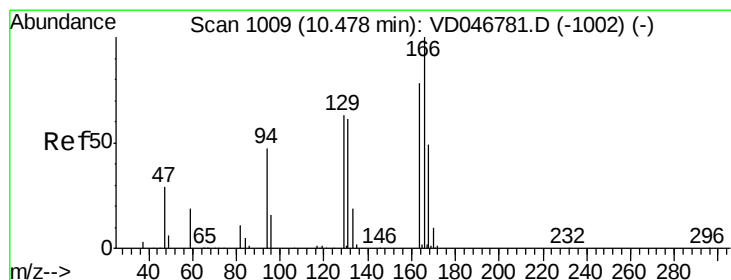
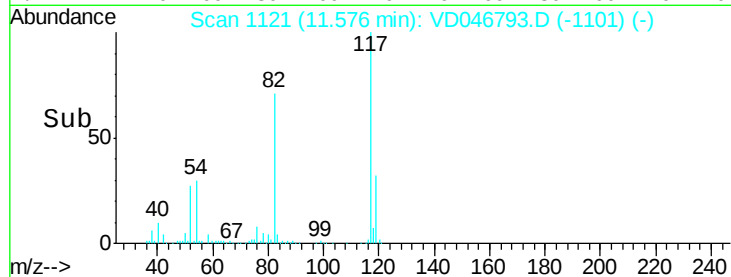
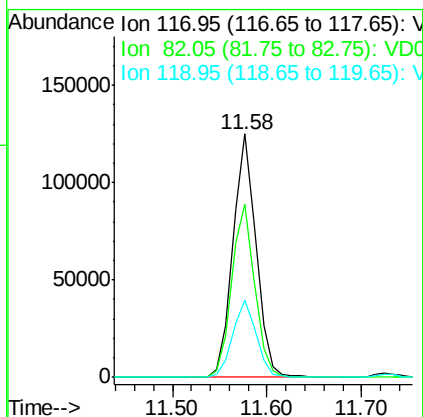
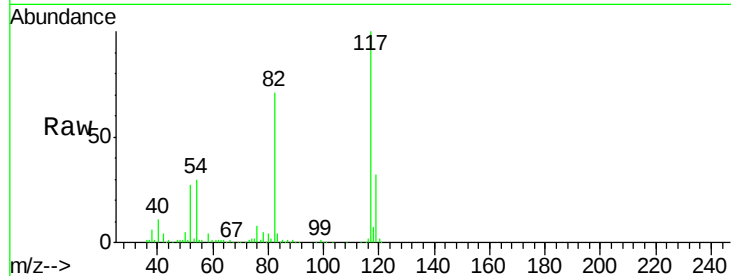




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

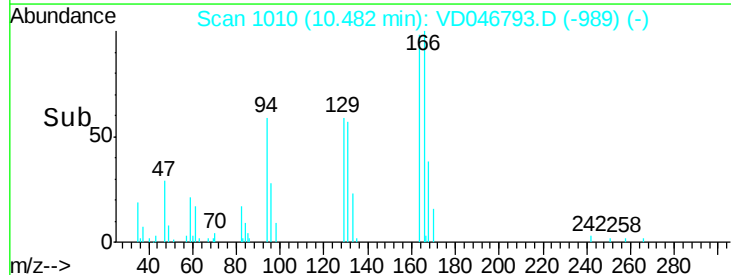
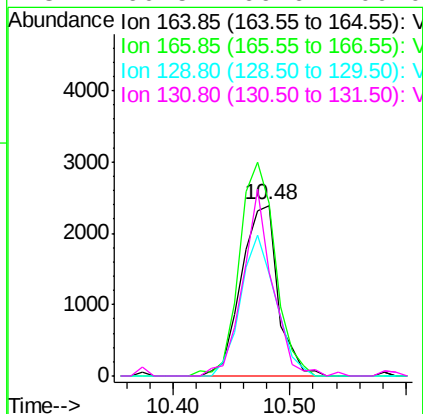
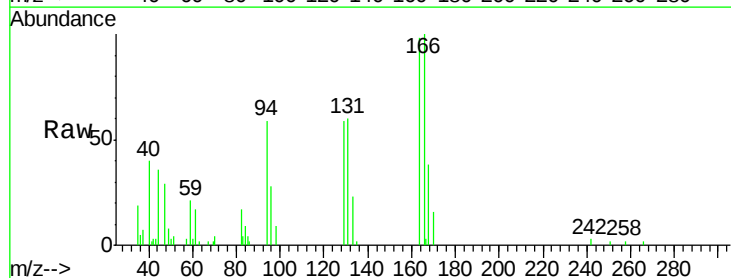
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

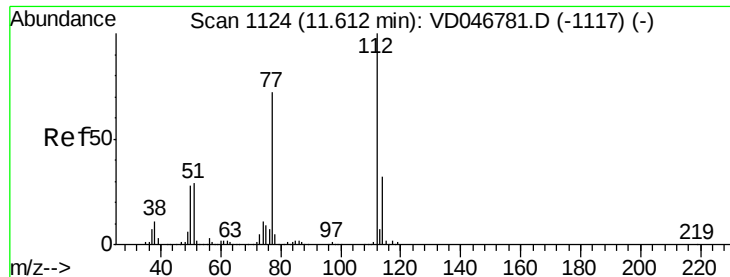
Tgt Ion:117 Resp: 212926
Ion Ratio Lower Upper
117 100
82 70.9 50.6 75.8
119 31.9 25.8 38.8



#64
Tetrachloroethene
Concen: 3.04 ug/l
RT: 10.48 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:164 Resp: 5233
Ion Ratio Lower Upper
164 100
166 101.7 106.8 160.2#
129 60.4 70.6 106.0#
131 60.5 66.6 100.0#

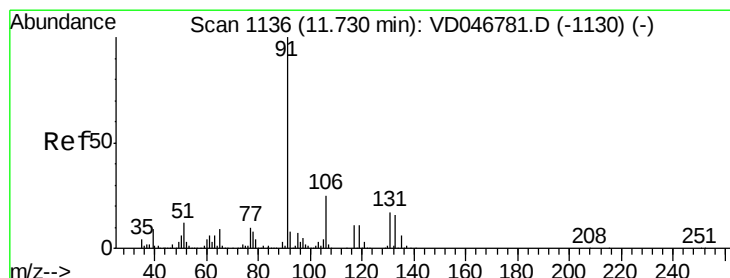
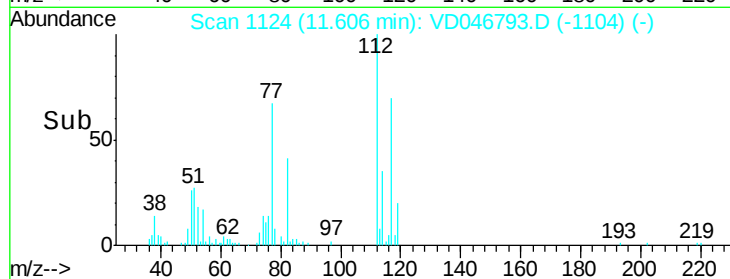
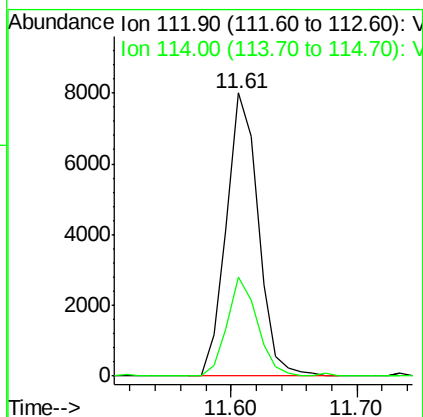
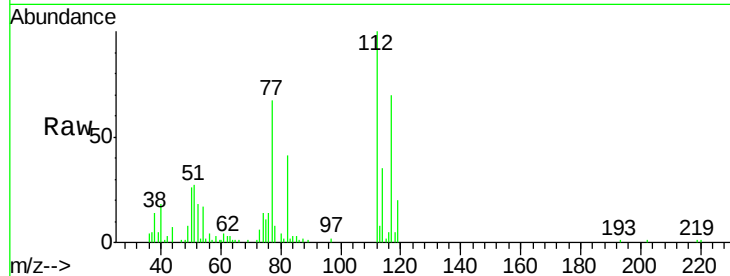




#65
Chlorobenzene
Concen: 3.12 ug/l
RT: 11.61 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

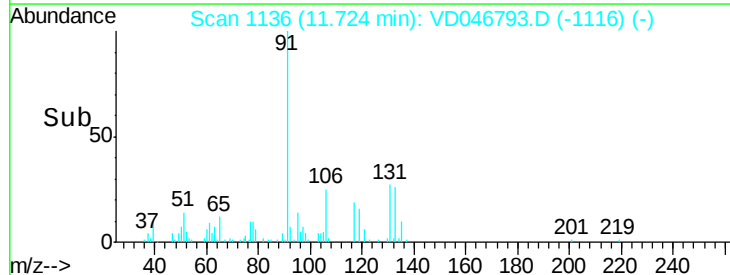
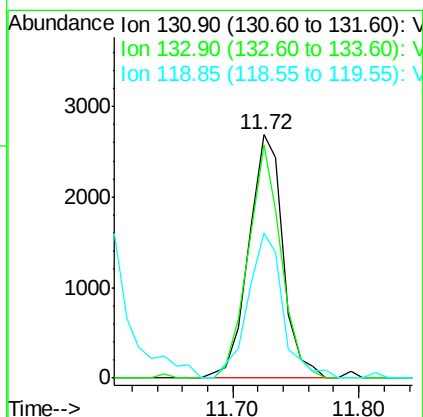
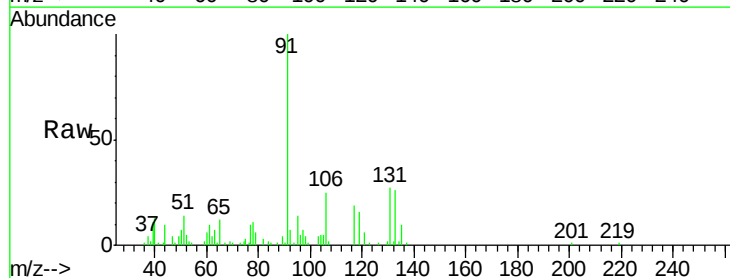
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

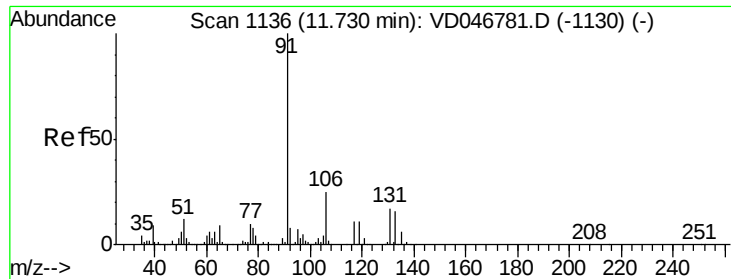
Tgt Ion:112 Resp: 13985
Ion Ratio Lower Upper
112 100
114 35.1 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 3.08 ug/l
RT: 11.72 min Scan# 1136
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:131 Resp: 5072
Ion Ratio Lower Upper
131 100
133 95.8 48.4 145.0
119 59.5 31.5 94.5

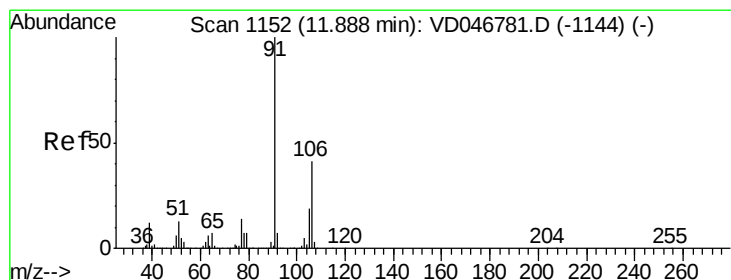
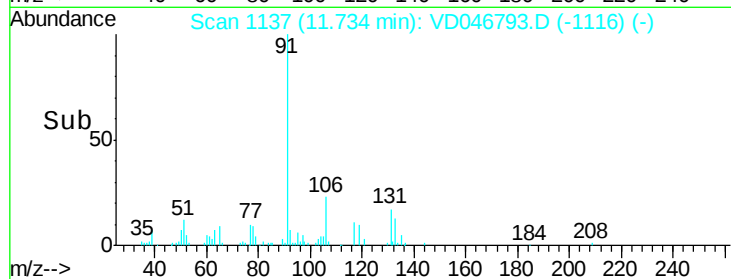
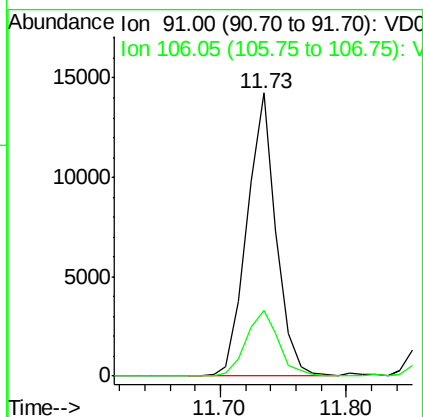
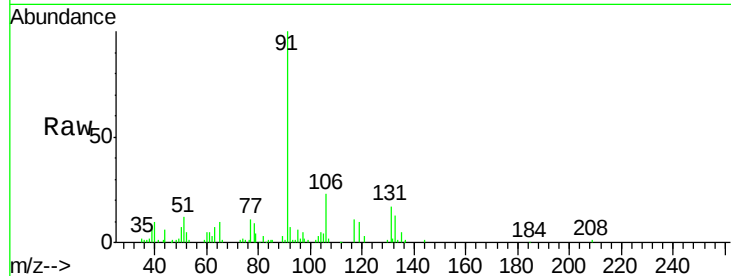




#67
Ethyl Benzene
Concen: 2.53 ug/l
RT: 11.73 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

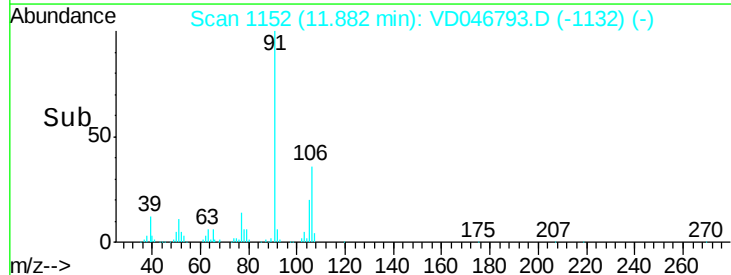
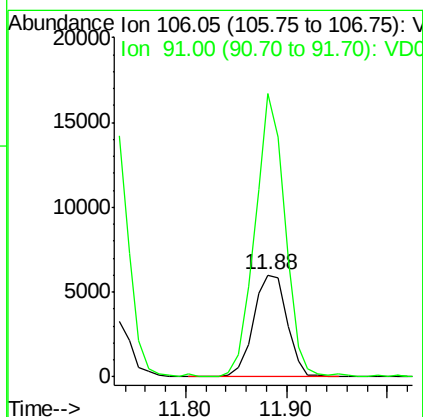
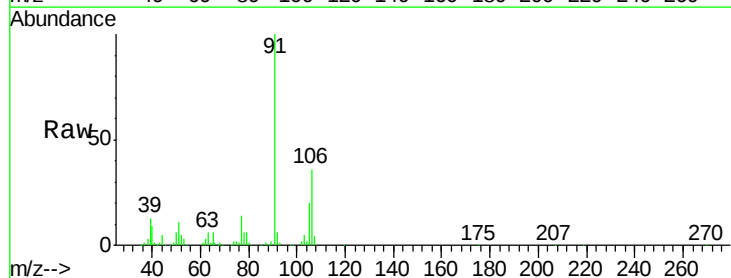
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

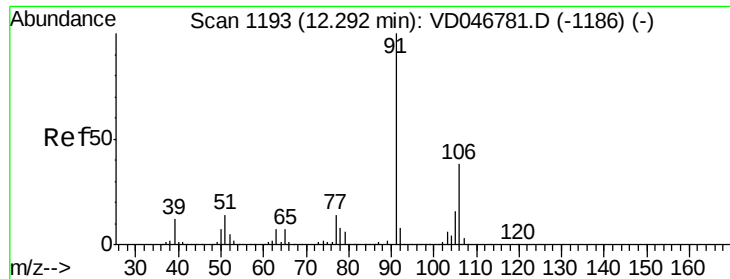
Tgt Ion: 91 Resp: 22775
Ion Ratio Lower Upper
91 100
106 23.0 20.2 30.2



#68
m/p-Xylenes
Concen: 4.90 ug/l
RT: 11.88 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 106 Resp: 13917
Ion Ratio Lower Upper
106 100
91 277.0 187.9 281.9

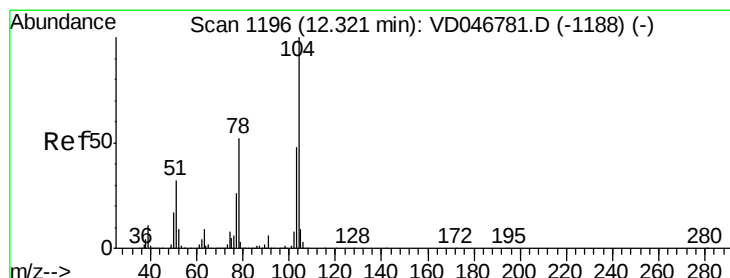
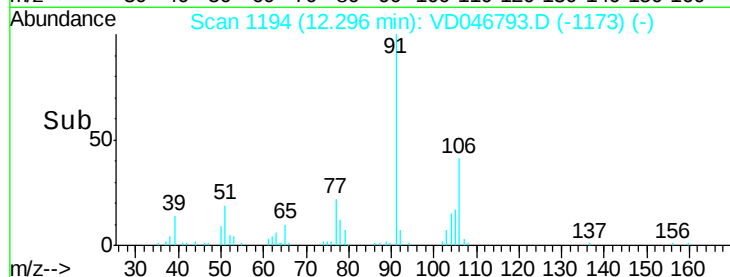
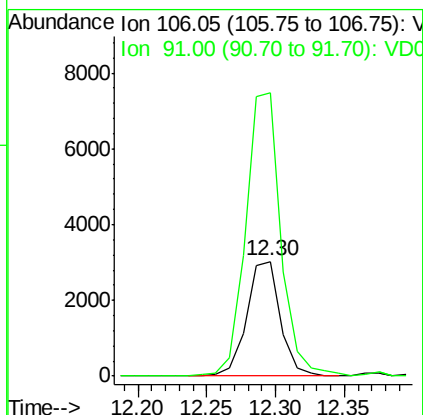
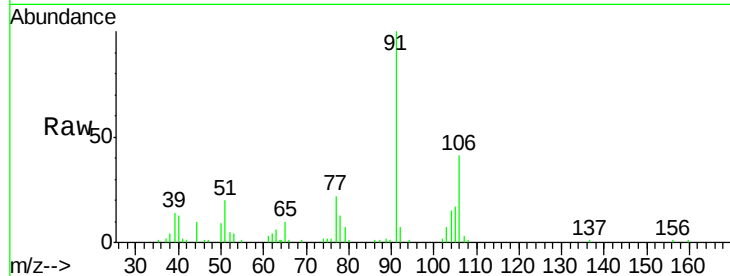




#69
o-Xylene
Concen: 2.03 ug/l
RT: 12.30 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

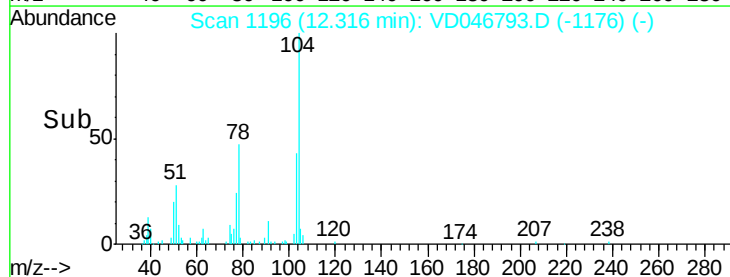
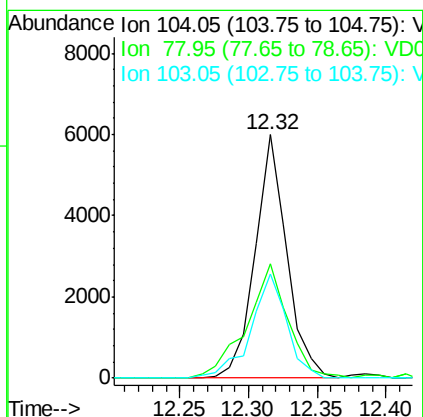
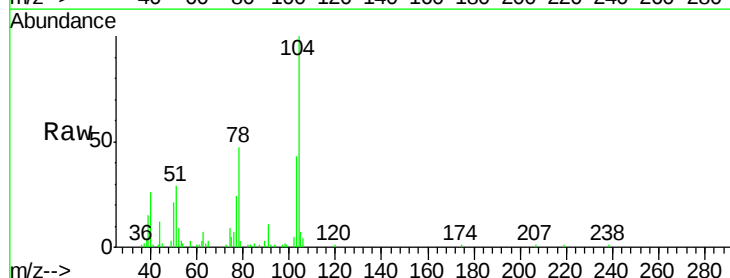
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

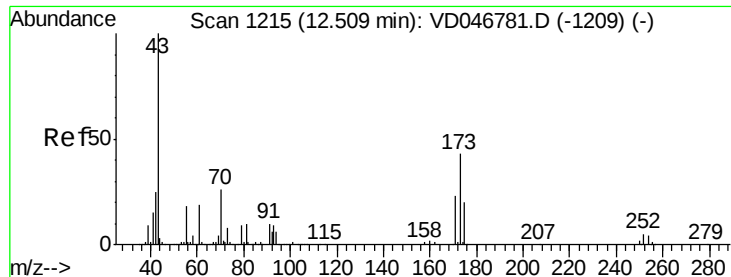
Tgt Ion:106 Resp: 5184
Ion Ratio Lower Upper
106 100
91 246.9 124.8 374.5



#70
Styrene
Concen: 2.18 ug/l
RT: 12.32 min Scan# 1196
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:104 Resp: 9650
Ion Ratio Lower Upper
104 100
78 47.0 44.5 66.7
103 42.7 40.3 60.5

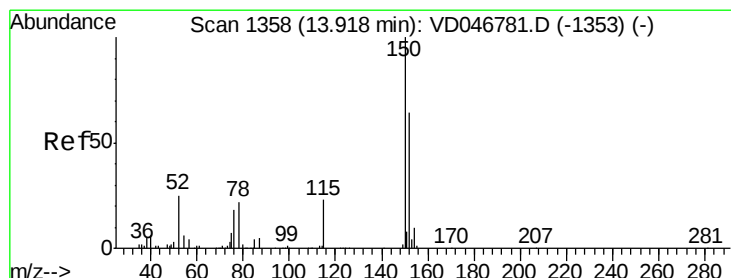
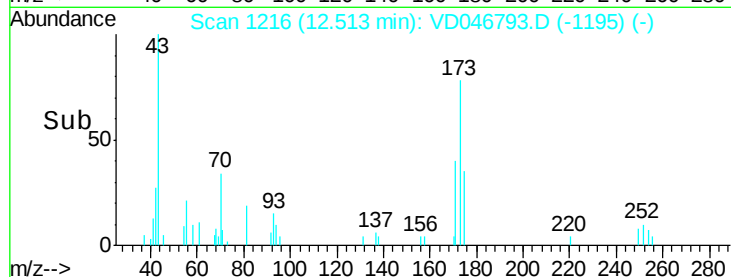
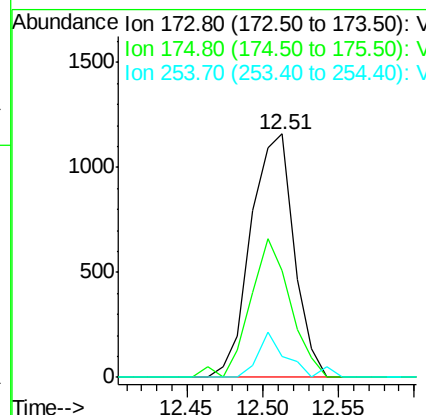
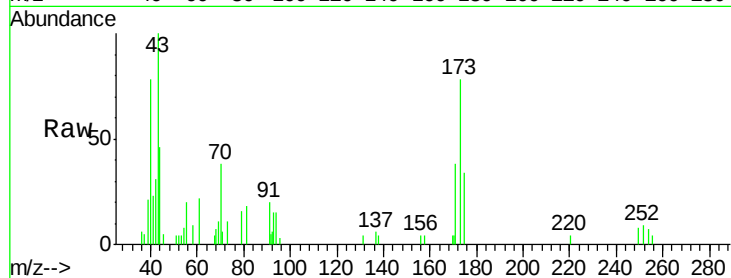




#71
Bromoform
Concen: 2.63 ug/l
RT: 12.51 min Scan# 1216
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

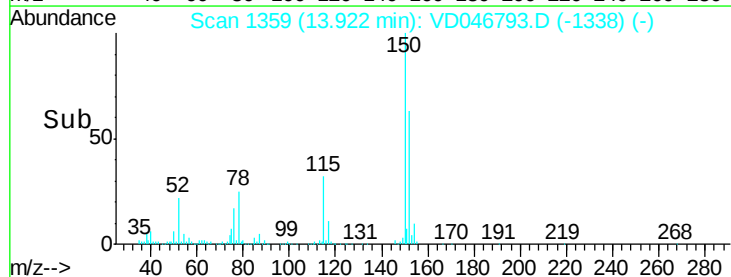
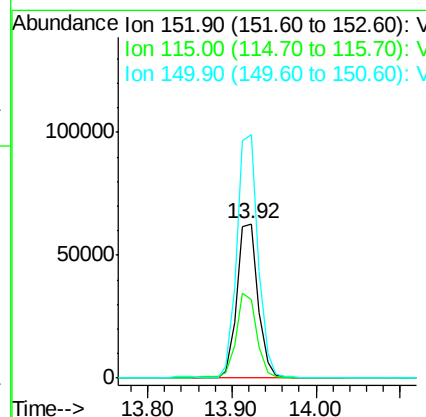
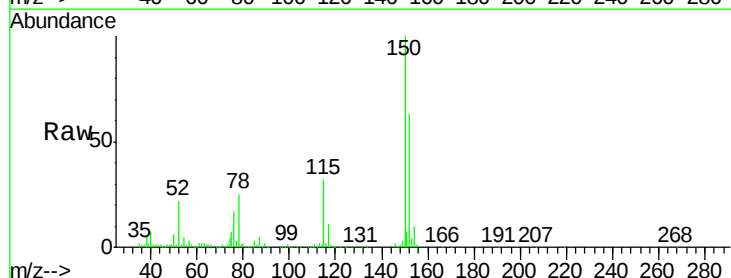
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

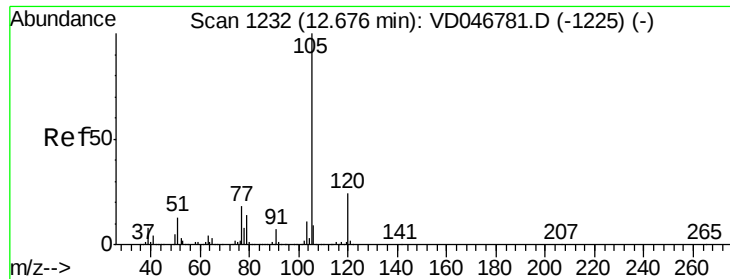
Tgt Ion:173 Resp: 2305
Ion Ratio Lower Upper
173 100
175 43.5 23.1 69.3
254 8.7 8.7 13.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.92 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion:152 Resp: 109885
Ion Ratio Lower Upper
152 100
115 50.5 26.2 78.6
150 157.5 0.0 311.8





#73

Isopropylbenzene

Concen: 2.04 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

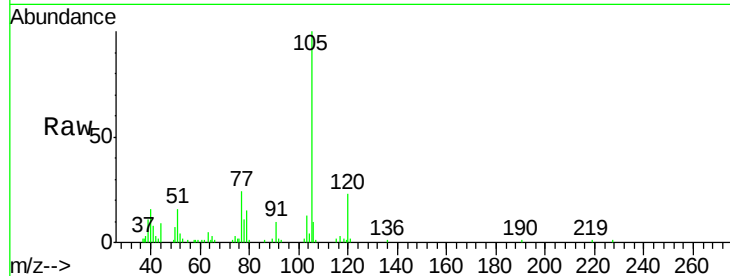
LOD-SOIL2015-01

Tgt Ion: 105 Resp: 15828

Ion Ratio Lower Upper

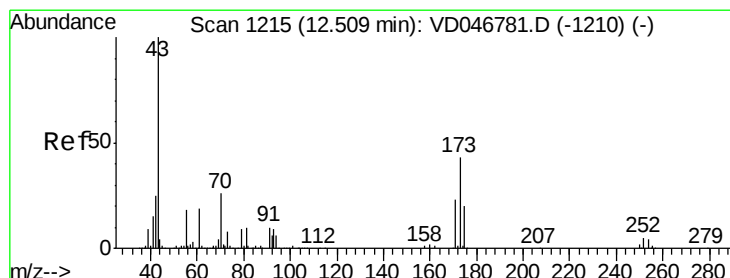
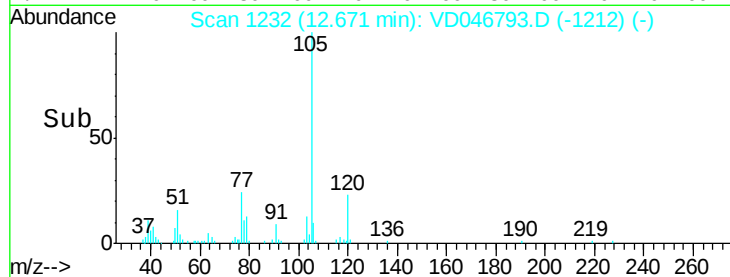
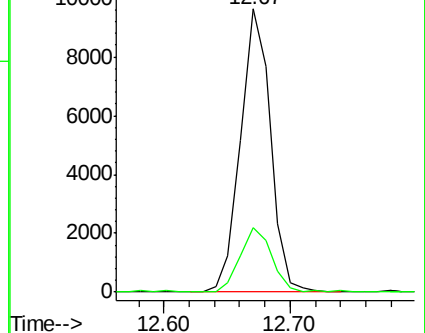
105 100

120 22.6 12.4 37.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 6.31 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Tgt Ion: 43 Resp: 3438

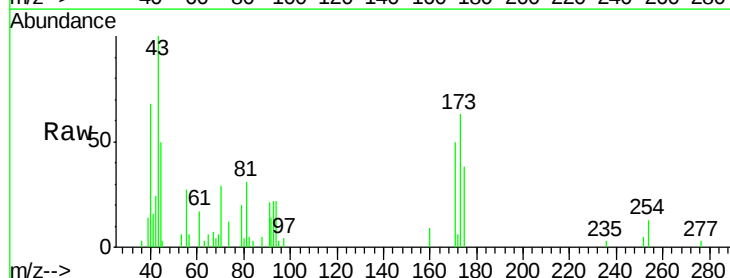
Ion Ratio Lower Upper

43 100

70 29.0 22.1 33.1

55 26.8 14.5 21.7#

61 16.9 14.6 21.8

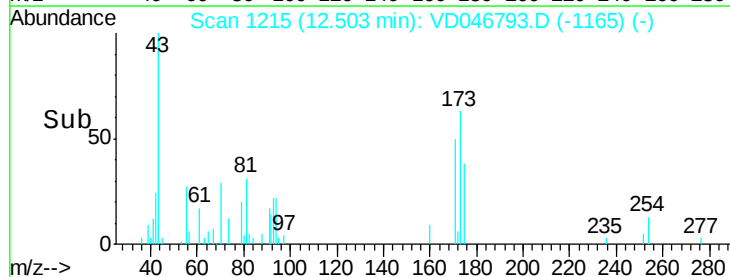
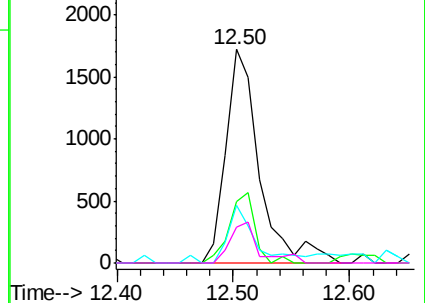


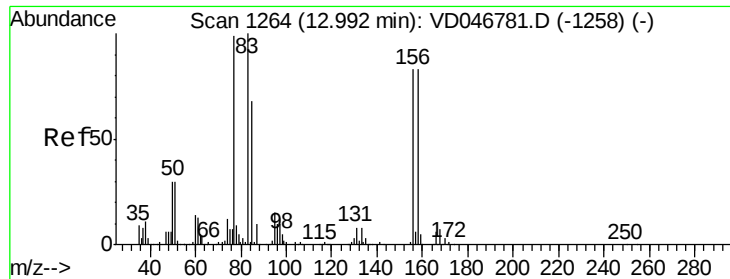
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 3.10 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

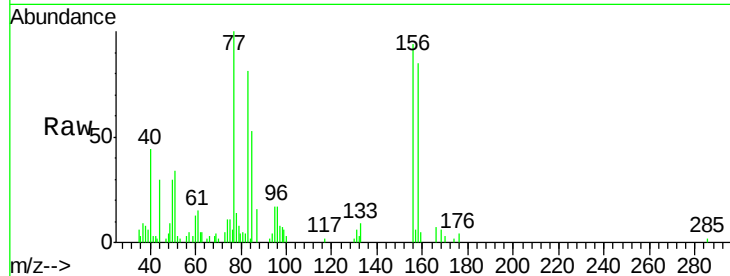
Tgt Ion: 83 Resp: 3875

Ion Ratio Lower Upper

83 100

131 8.0 3.9 11.7

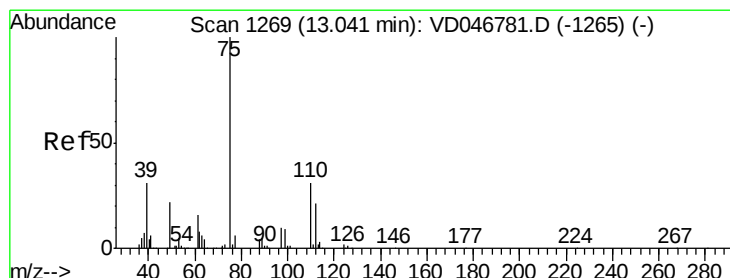
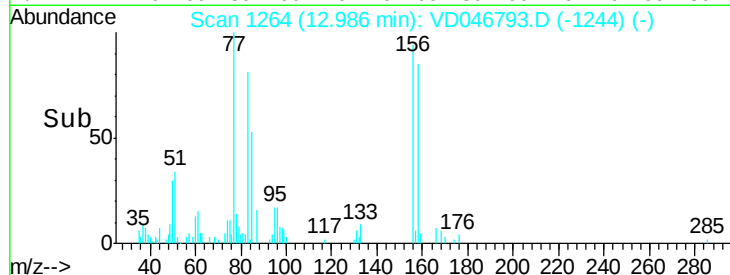
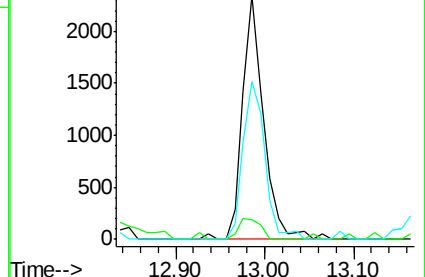
85 64.8 30.5 91.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.60 ug/l

RT: 13.04 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD046793.D

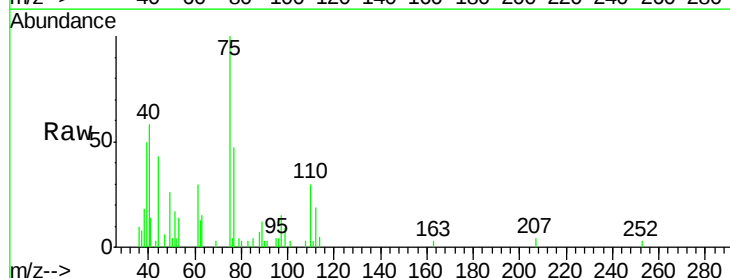
Acq: 18 Sep 2015 20:40

Tgt Ion: 75 Resp: 3479

Ion Ratio Lower Upper

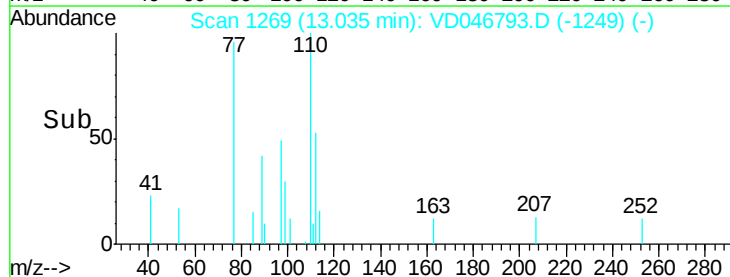
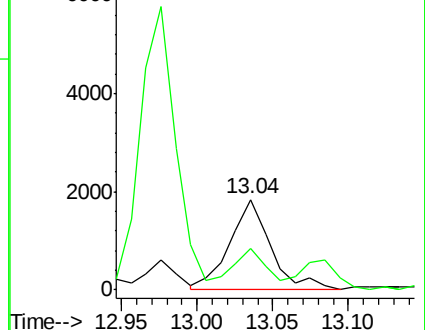
75 100

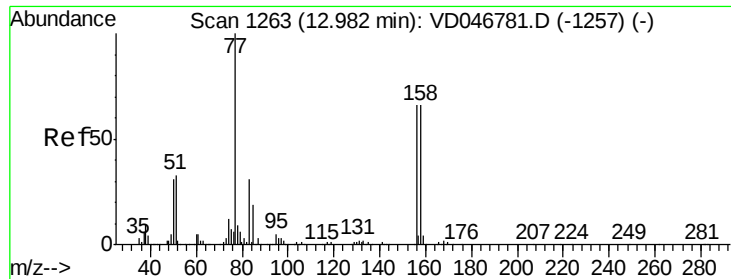
77 46.5 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

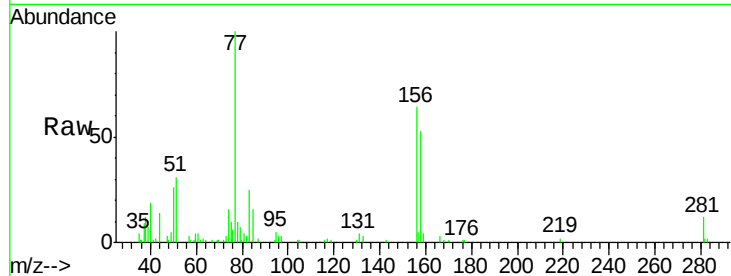




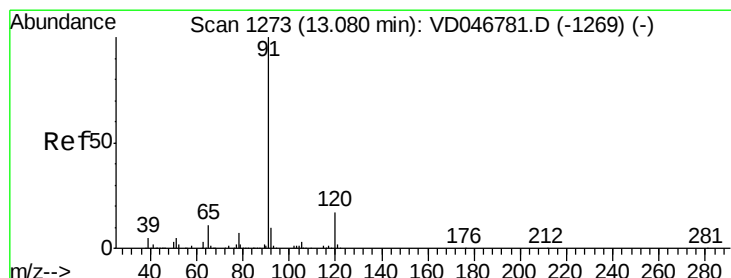
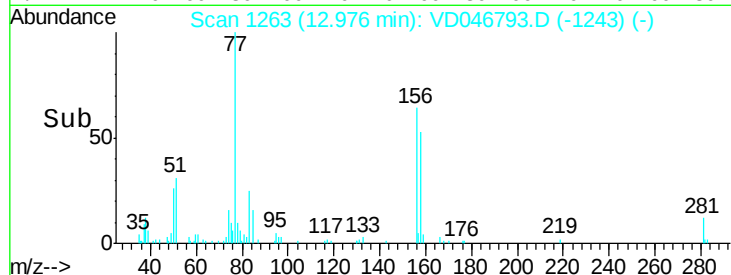
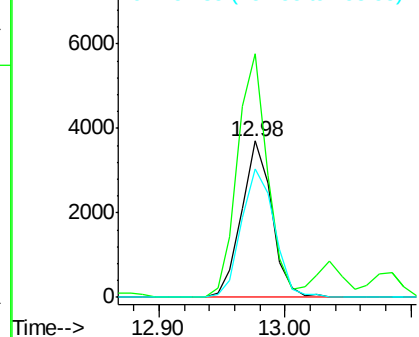
#77
Bromobenzene
Concen: 3.17 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion:156 Resp: 6171
Ion Ratio Lower Upper
156 100
77 155.8 70.3 210.8
158 82.2 49.0 147.0

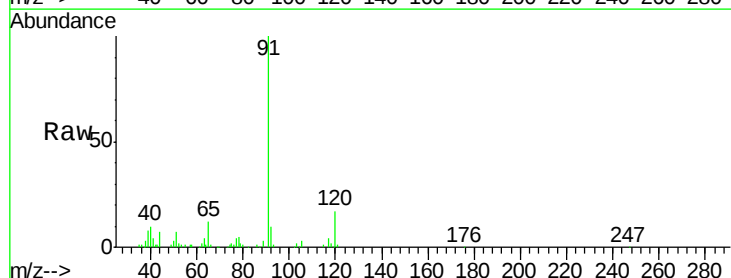


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): V
Ion 157.85 (157.55 to 158.55): V

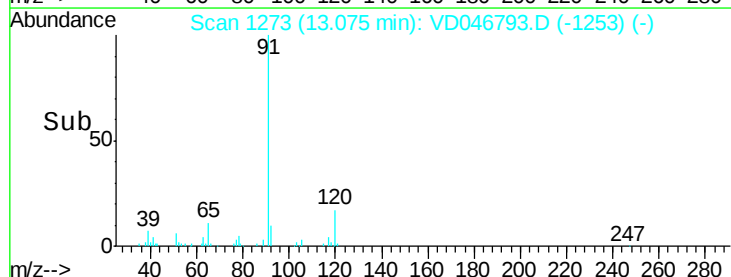
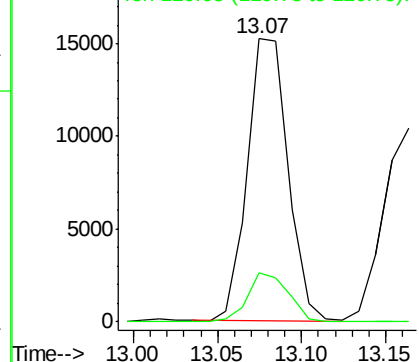


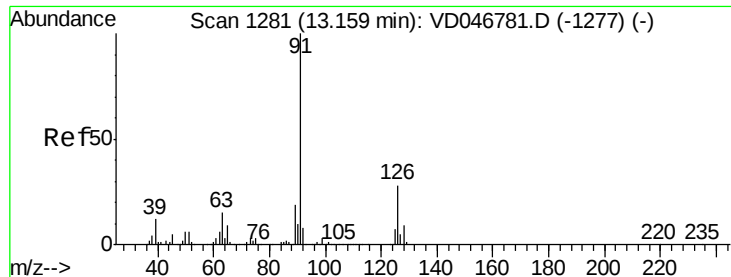
#78
n-propylbenzene
Concen: 2.34 ug/l
RT: 13.07 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion: 91 Resp: 25563
Ion Ratio Lower Upper
91 100
120 17.4 9.3 27.7



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 2.82 ug/l

RT: 13.16 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

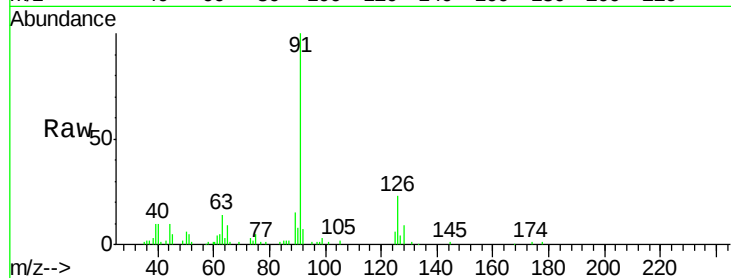
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 17139

Ion Ratio Lower Upper

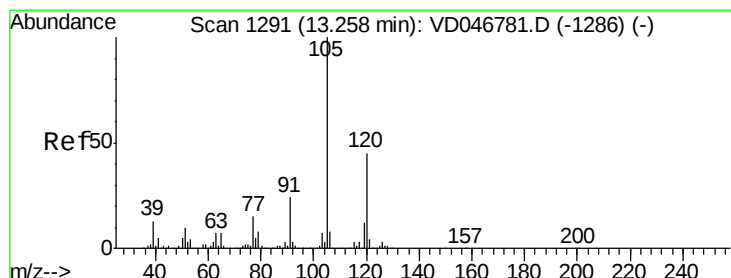
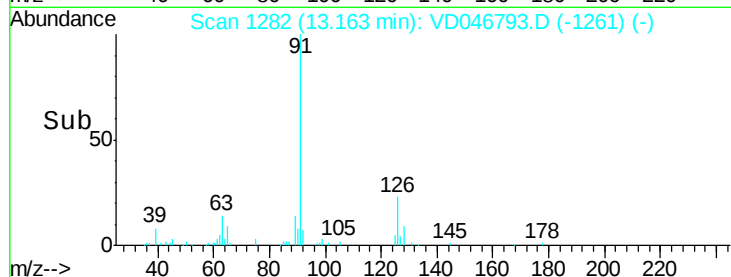
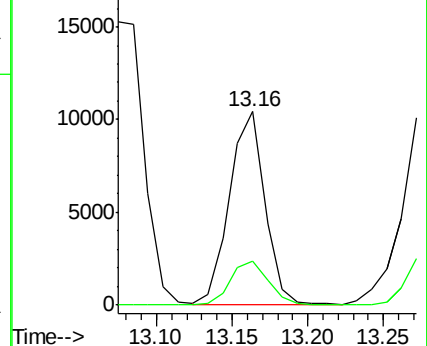
91 100

126 23.0 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 2.24 ug/l

RT: 13.25 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VD046793.D

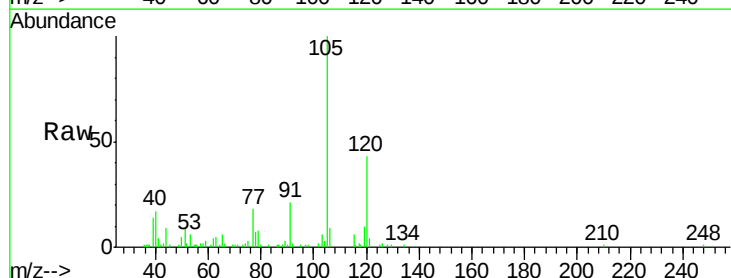
Acq: 18 Sep 2015 20:40

Tgt Ion: 105 Resp: 13824

Ion Ratio Lower Upper

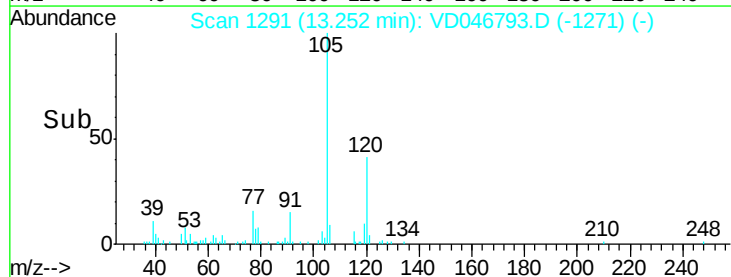
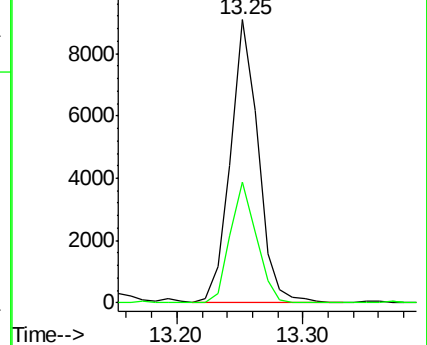
105 100

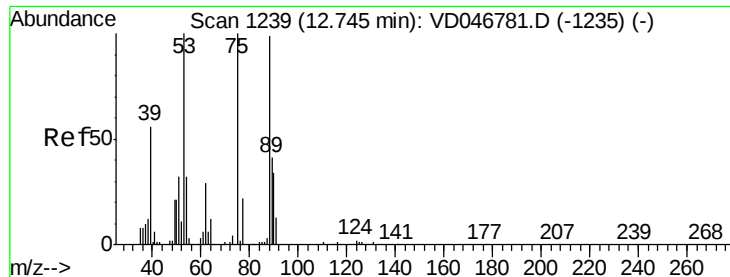
120 42.9 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 164.25 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.10 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

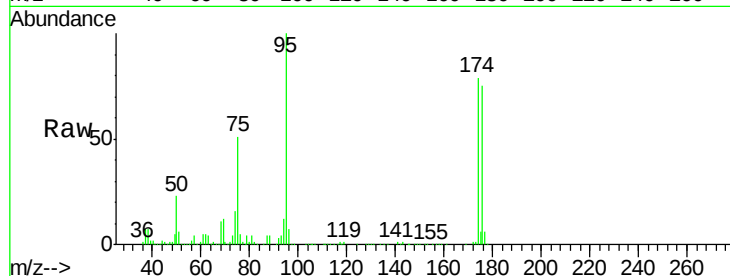
Tgt Ion: 75 Resp: 63874

Ion Ratio Lower Upper

75 100

53 0.5 82.3 123.5#

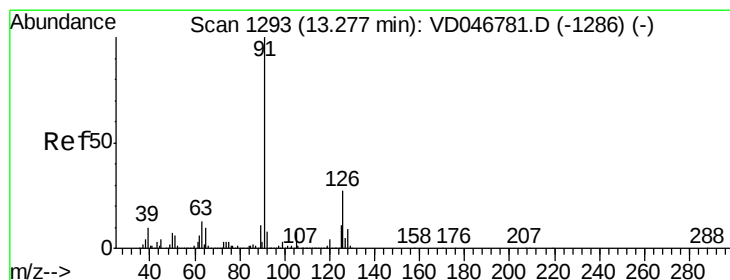
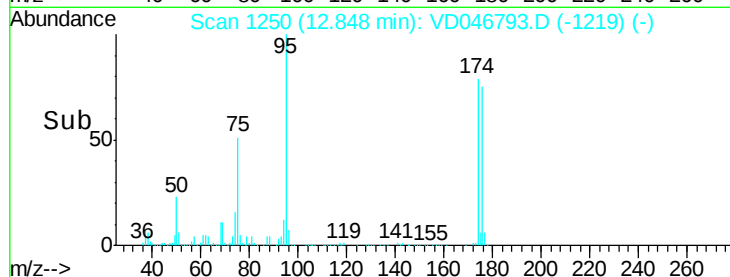
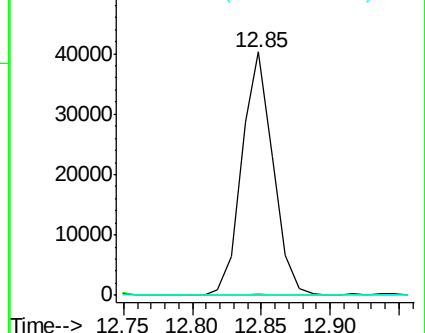
89 0.0 36.6 54.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 2.68 ug/l

RT: 13.27 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VD046793.D

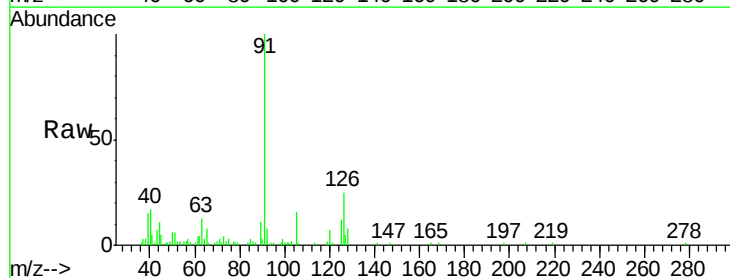
Acq: 18 Sep 2015 20:40

Tgt Ion: 91 Resp: 19344

Ion Ratio Lower Upper

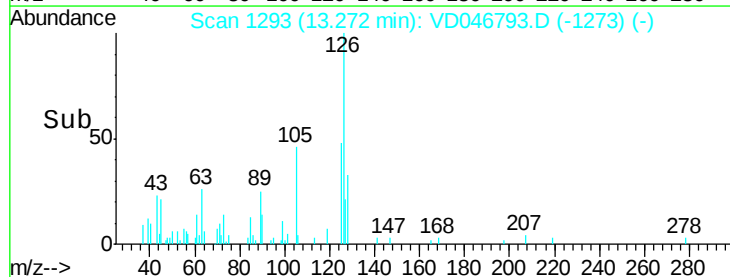
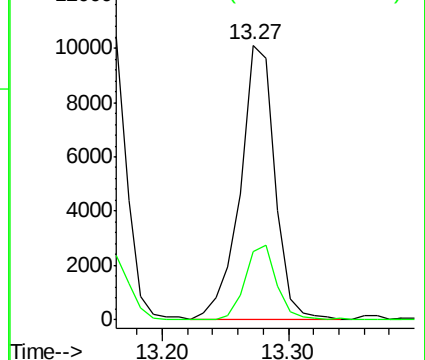
91 100

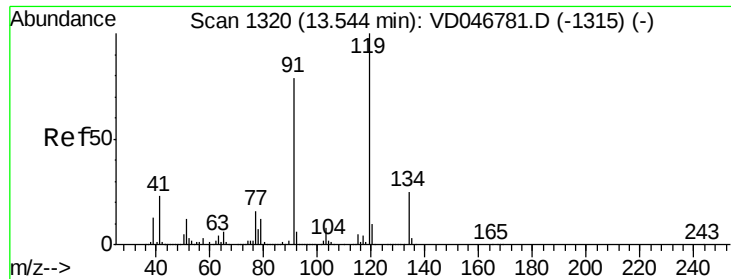
126 25.0 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

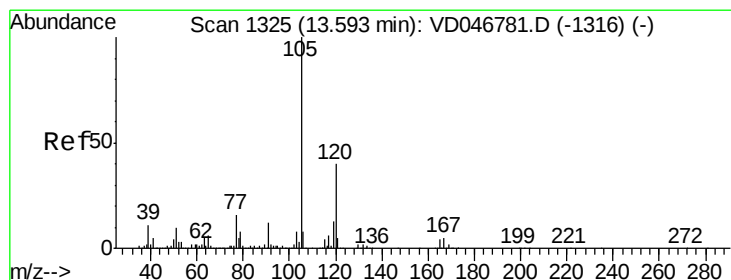
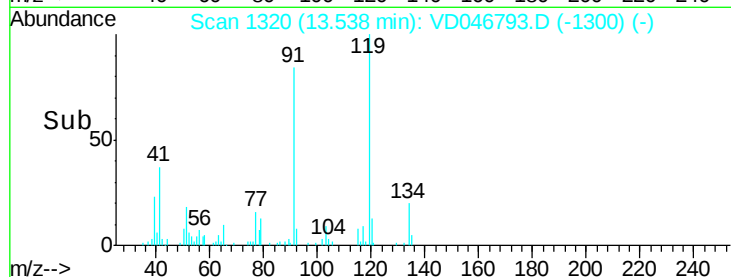
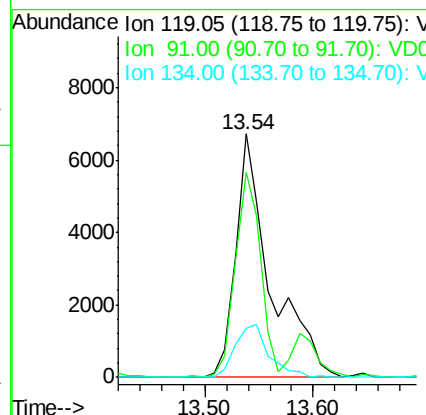
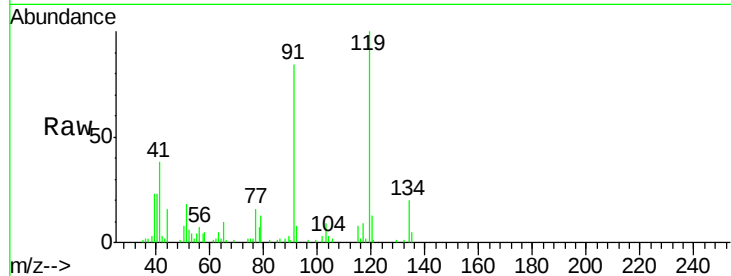




#83
 tert-Butylbenzene
 Concen: 2.70 ug/l
 RT: 13.54 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

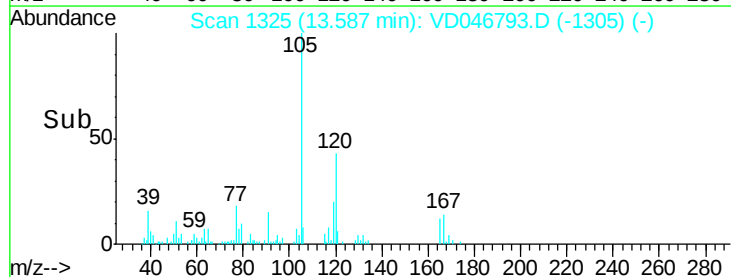
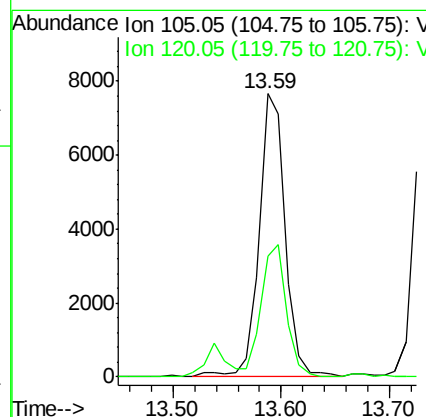
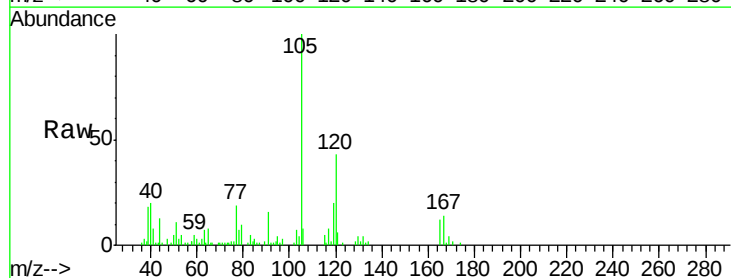
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

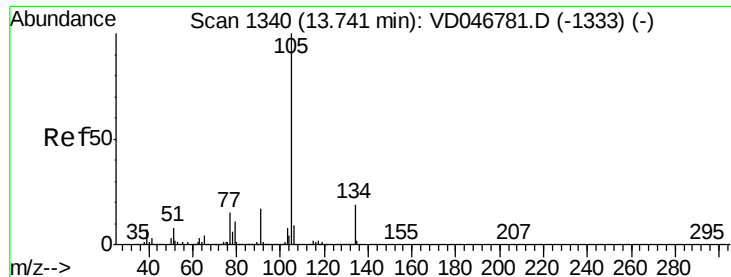
Tgt Ion:119 Resp: 15036
 Ion Ratio Lower Upper
 119 100
 91 84.4 41.6 124.9
 134 20.3 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 2.07 ug/l
 RT: 13.59 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion:105 Resp: 12858
 Ion Ratio Lower Upper
 105 100
 120 42.5 21.1 63.1





#85

sec-Butylbenzene

Concen: 2.27 ug/l

RT: 13.74 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

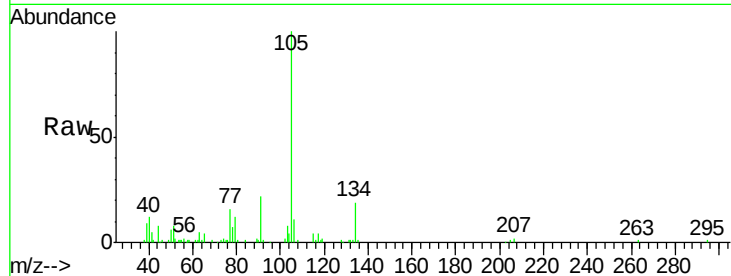
LOD-SOIL2015-01

Tgt Ion:105 Resp: 18586

Ion Ratio Lower Upper

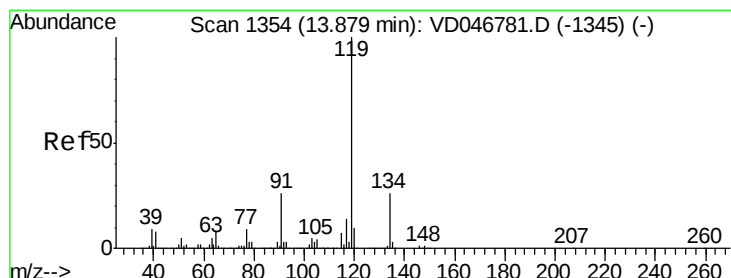
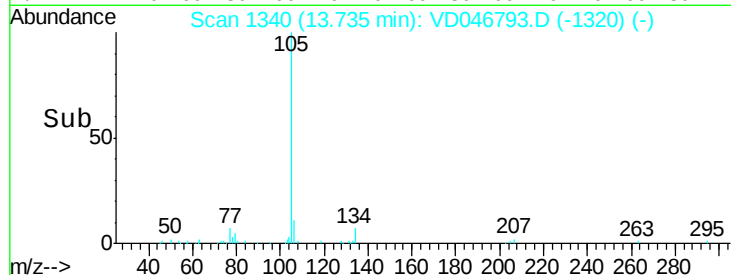
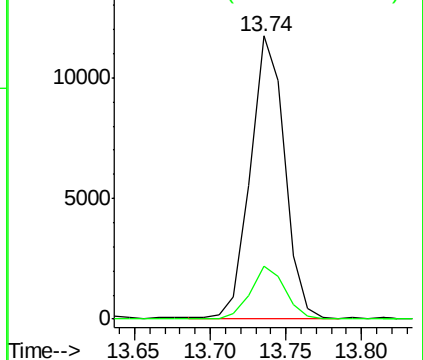
105 100

134 18.6 10.1 30.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 2.22 ug/l

RT: 13.87 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

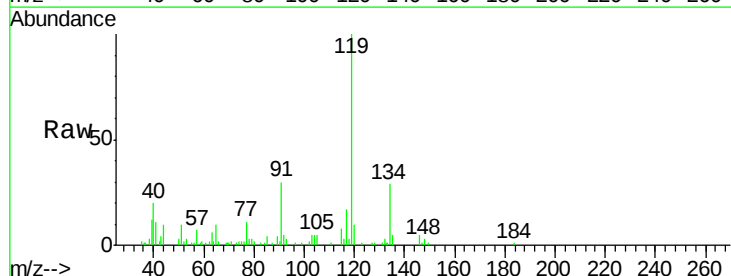
Tgt Ion:119 Resp: 14282

Ion Ratio Lower Upper

119 100

134 29.3 13.0 38.9

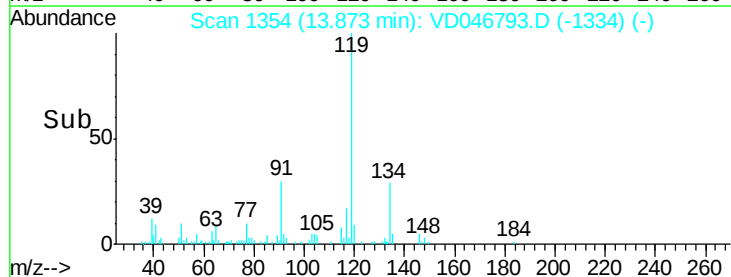
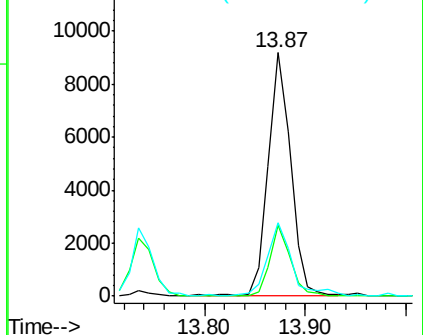
91 30.2 13.8 41.3

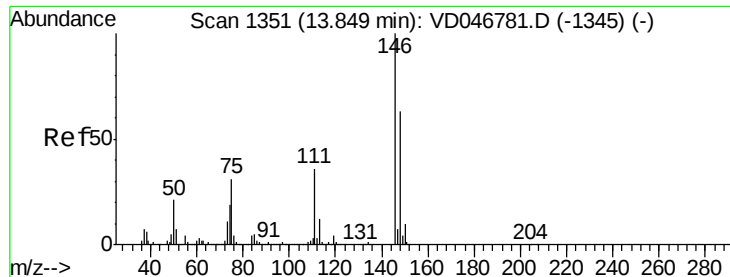


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

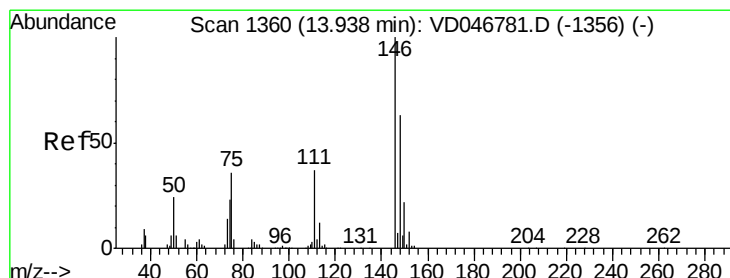
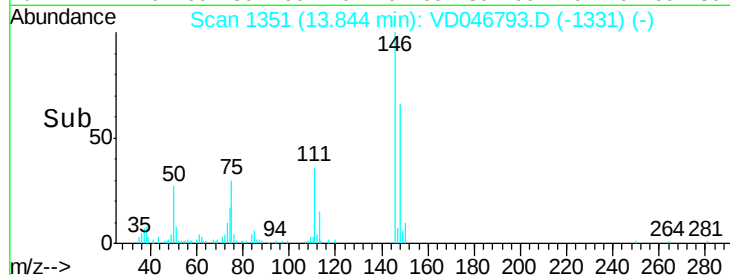
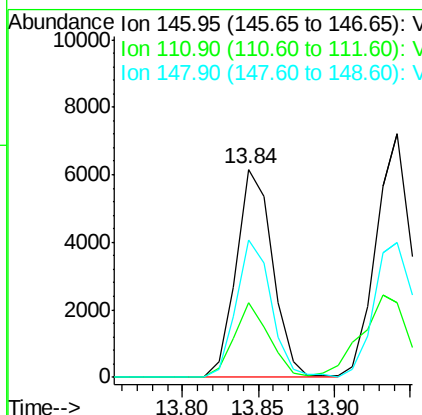
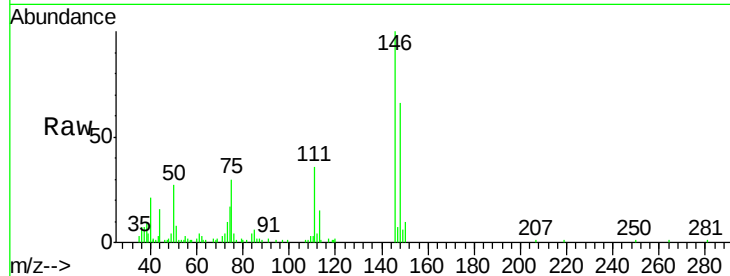




#87
 1,3-Dichlorobenzene
 Concen: 2.85 ug/l
 RT: 13.84 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

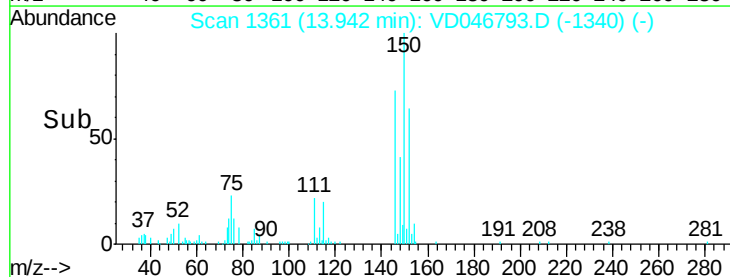
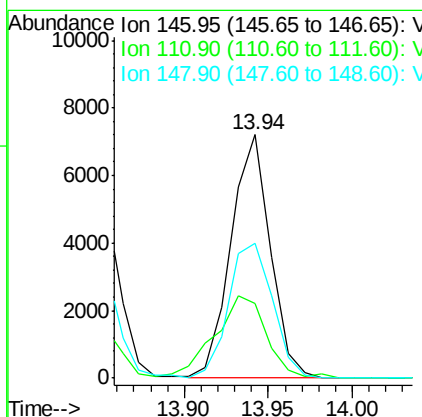
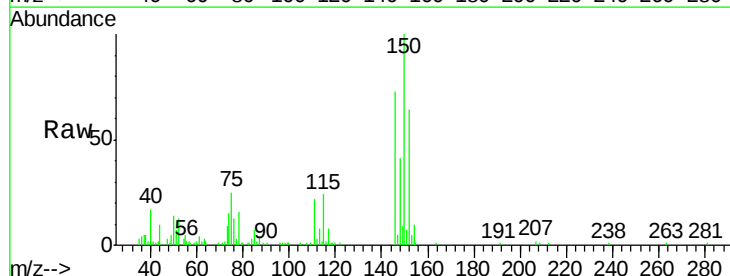
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

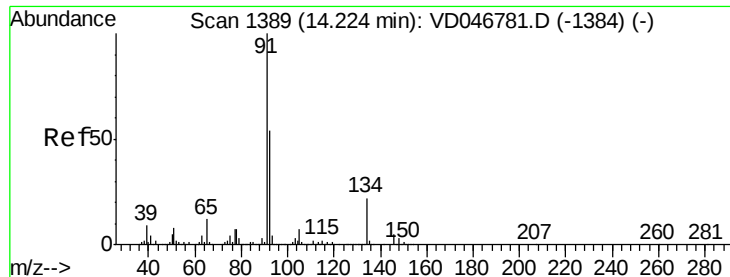
Tgt Ion:146 Resp: 10347
 Ion Ratio Lower Upper
 146 100
 111 35.8 17.4 52.2
 148 65.9 33.0 99.0



#88
 1,4-Dichlorobenzene
 Concen: 3.24 ug/l
 RT: 13.94 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion:146 Resp: 11695
 Ion Ratio Lower Upper
 146 100
 111 30.6 17.0 51.0
 148 55.5 31.9 95.7





#89

n-Butylbenzene

Concen: 2.21 ug/l

RT: 14.22 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VD046793.D

Acq: 18 Sep 2015 20:40

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

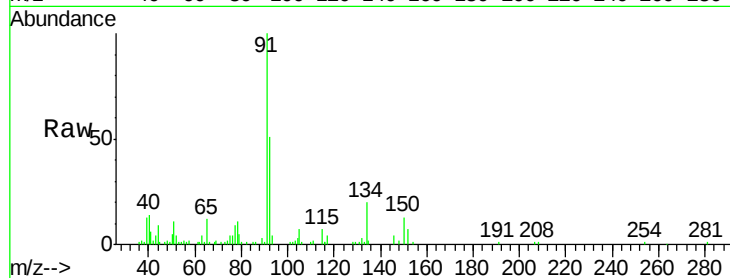
Tgt Ion: 91 Resp: 16025

Ion Ratio Lower Upper

91 100

92 51.0 27.1 81.2

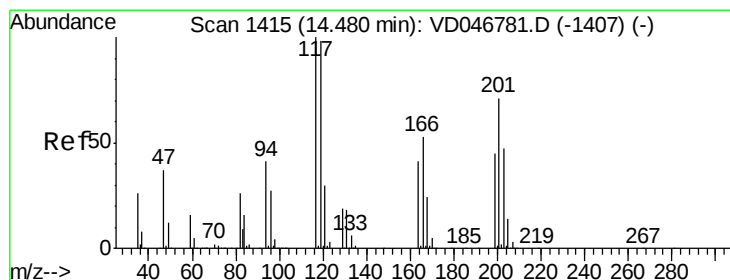
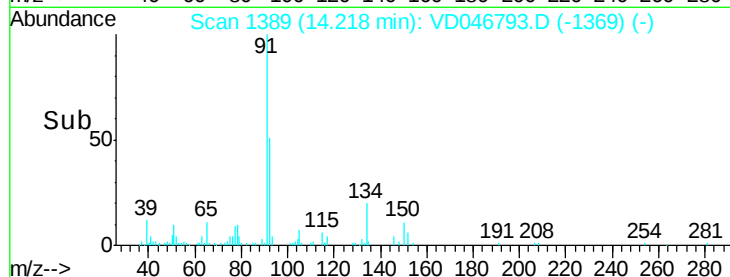
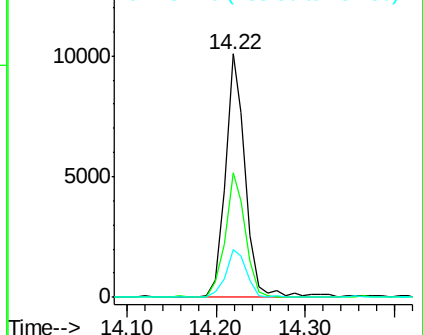
134 19.6 9.6 28.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 3.33 ug/l

RT: 14.48 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD046793.D

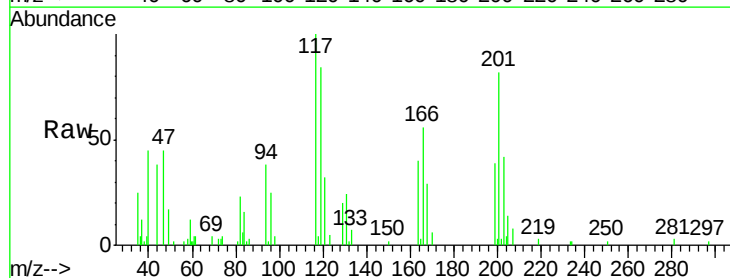
Acq: 18 Sep 2015 20:40

Tgt Ion: 117 Resp: 4962

Ion Ratio Lower Upper

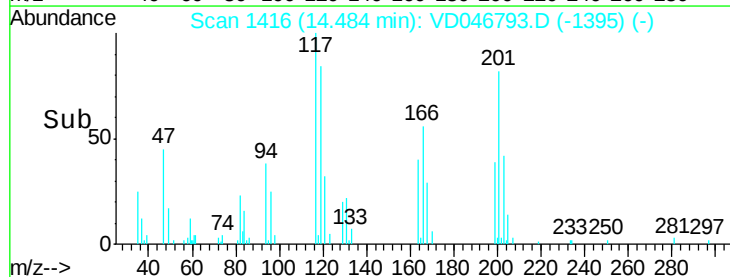
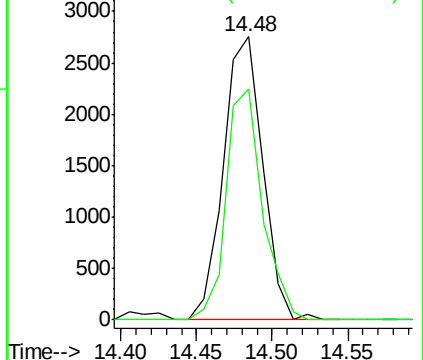
117 100

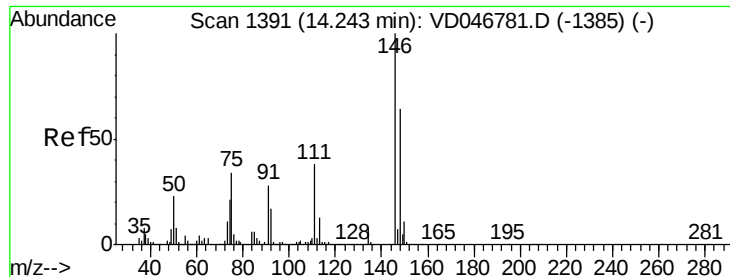
201 81.7 41.0 123.0



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

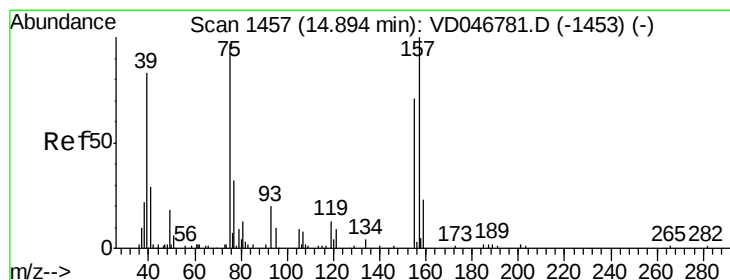
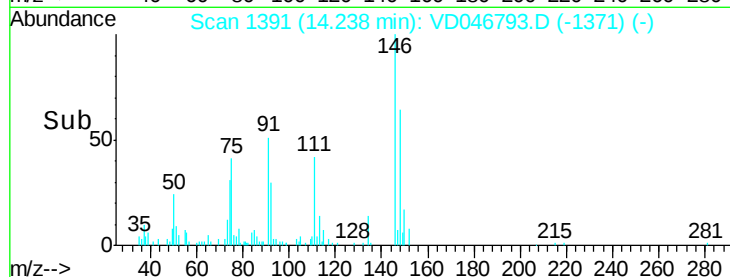
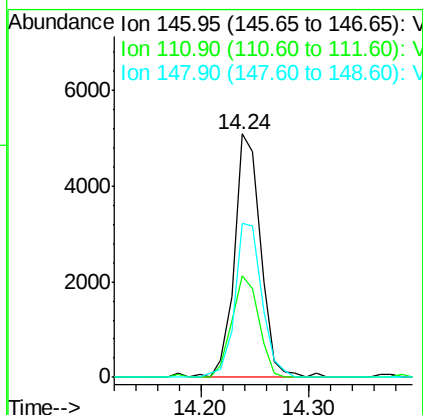
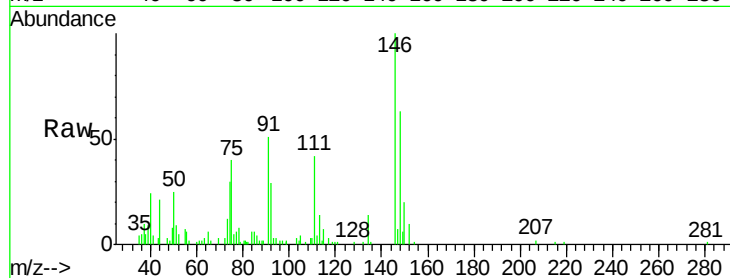




#91
 1,2-Dichlorobenzene
 Concen: 2.82 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

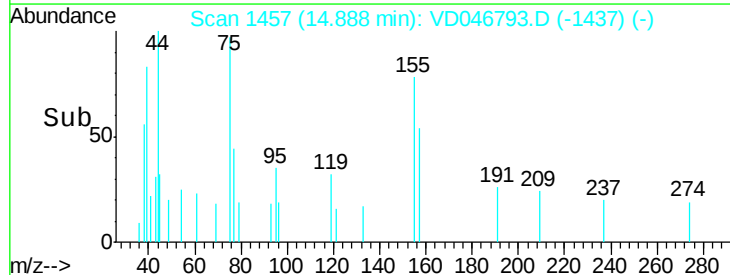
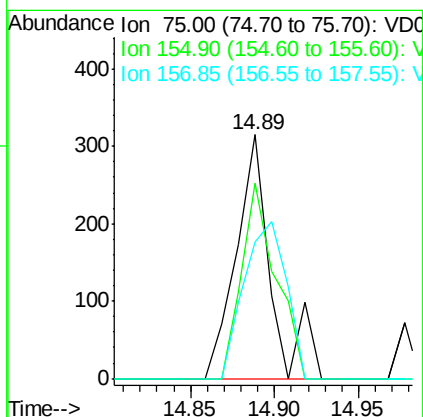
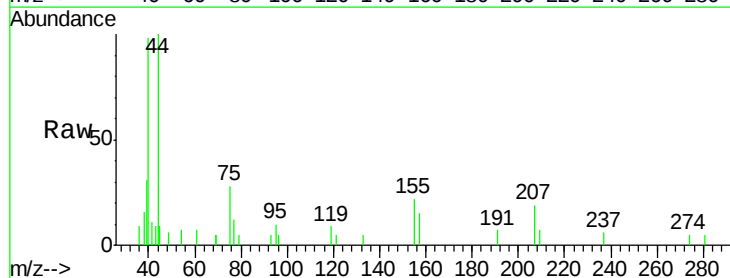
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

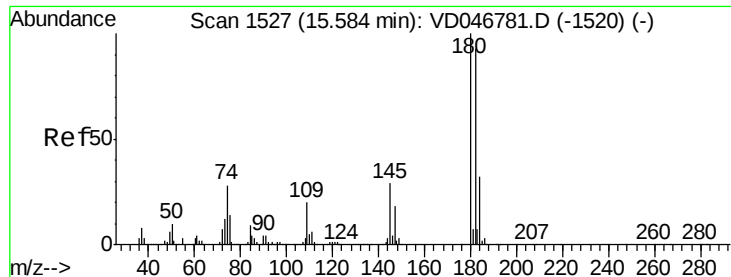
Tgt Ion: 146 Resp: 8612
 Ion Ratio Lower Upper
 146 100
 111 41.9 18.2 54.6
 148 63.2 31.1 93.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.81 ug/l
 RT: 14.89 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion: 75 Resp: 452
 Ion Ratio Lower Upper
 75 100
 155 80.0 41.4 124.4
 157 56.2 65.0 195.1#

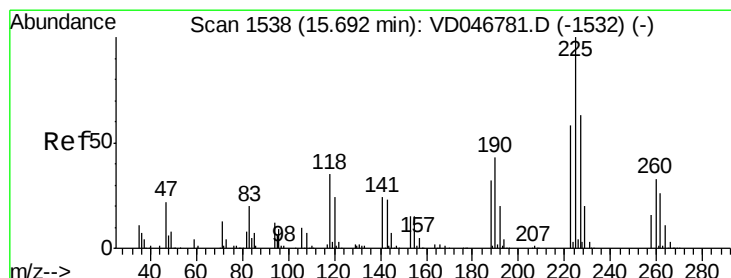
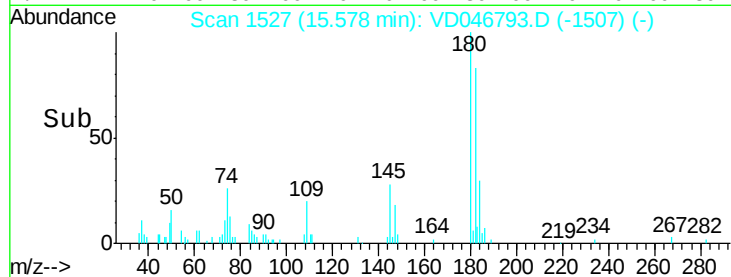
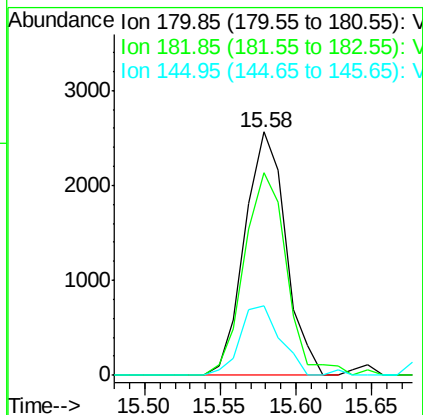
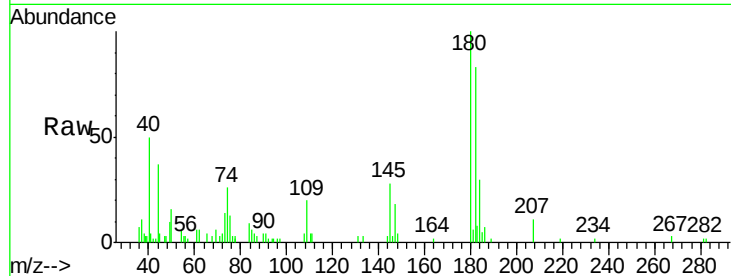




#93
 1,2,4-Trichlorobenzene
 Concen: 2.77 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.01 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

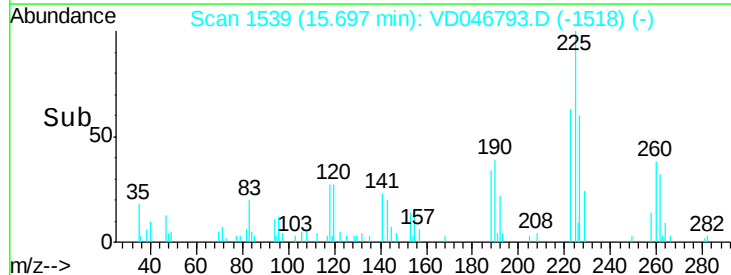
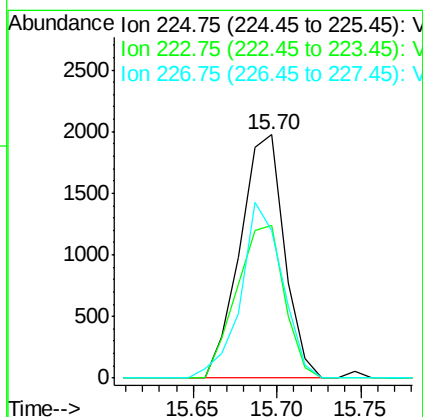
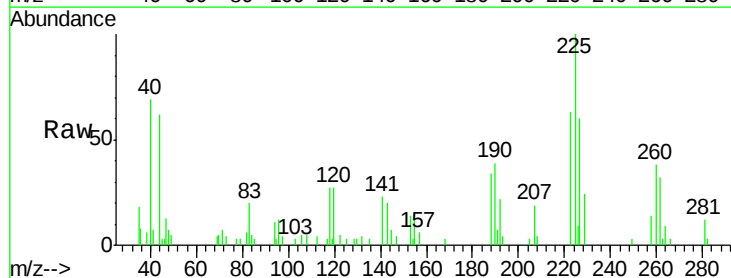
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

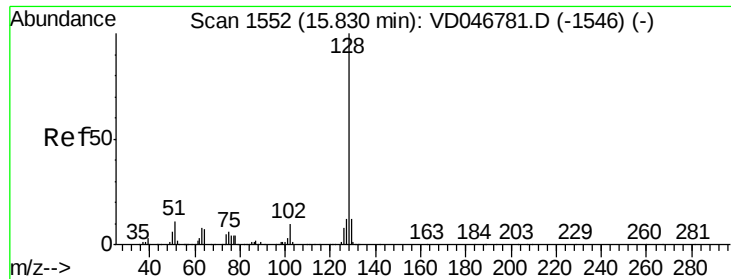
Tgt Ion:180 Resp: 4870
 Ion Ratio Lower Upper
 180 100
 182 83.3 47.5 142.5
 145 28.3 14.6 44.0



#94
 Hexachlorobutadiene
 Concen: 2.49 ug/l
 RT: 15.70 min Scan# 1539
 Delta R.T. 0.00 min
 Lab File: VD046793.D
 Acq: 18 Sep 2015 20:40

Tgt Ion:225 Resp: 3604
 Ion Ratio Lower Upper
 225 100
 223 62.7 30.4 91.2
 227 60.4 31.3 93.9

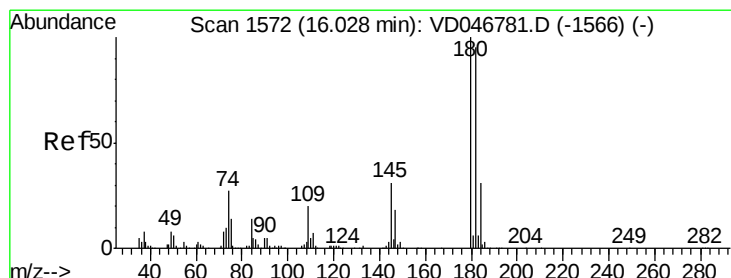
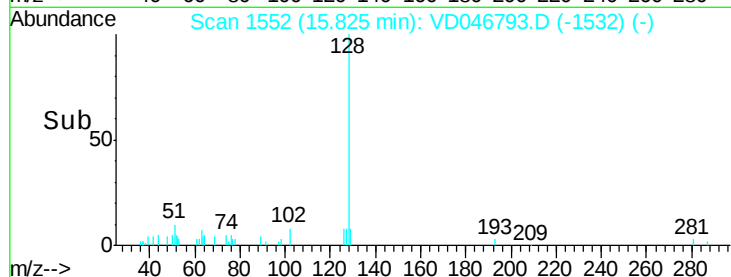
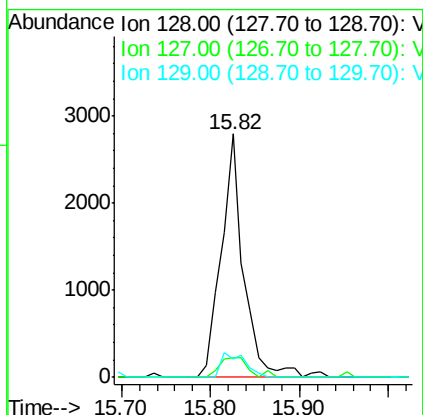
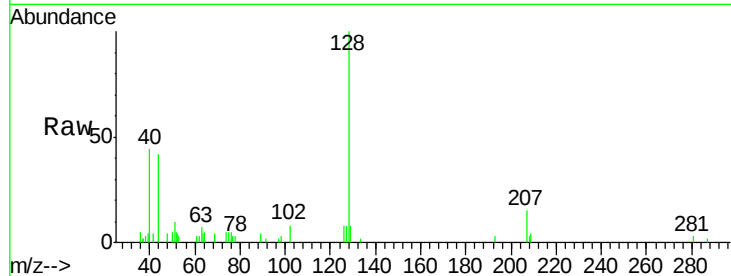




#95
Naphthalene
Concen: 4.41 ug/l
RT: 15.82 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.2	9.8	14.6#
129	7.8	8.6	12.8#



#96
1,2,3-Trichlorobenzene
Concen: 2.57 ug/l
RT: 16.02 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VD046793.D
Acq: 18 Sep 2015 20:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	103.5	47.4	142.3
145	49.3	15.4	46.4#

