

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046791.D
 Acq On : 18 Sep 2015 19:45
 Operator : FY/SY
 Sample : G3707-03LOD 1ppb
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Sep 19 00:11:17 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	161473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	225933	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	216368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	109372	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.73	65	98179	58.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	116.96%	
35) Dibromofluoromethane	6.21	113	92647	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
50) Toluene-d8	9.62	98	293543	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
62) 4-Bromofluorobenzene	12.85	95	112849	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.42	85	4045	Below Cal		81
3) Chlorodifluoromethane	1.44	51	3529	Below Cal	#	93
4) Chloromethane	1.58	50	1615	1.70	ug/l #	81
5) Vinyl Chloride	1.68	62	1734	1.94	ug/l	92
6) Bromomethane	1.98	94	1689	Below Cal		91
7) Chloroethane	2.09	64	1013	1.81	ug/l	89
8) Trichlorofluoromethane	2.33	101	4704	1.78	ug/l	88
9) Diethyl Ether	2.64	74	620	1.32	ug/l	72
10) 1,1,2-Trichlorotrifluoroet	2.90	101	2673	1.62	ug/l #	79
11) Methyl Iodide	3.06	142	1314	2.39	ug/l	95
12) Tert butyl alcohol	3.66	59	2179	Below Cal	#	74
13) 1,1-Dichloroethene	2.88	96	1740	1.34	ug/l	89
14) Acrolein	2.78	56	494	5.76	ug/l	82
15) Allyl chloride	3.33	41	2990	1.14	ug/l #	78
16) Acrylonitrile	3.85	53	1180	6.02	ug/l #	93
17) Acetone	2.95	43	2804	9.88	ug/l #	88
18) Carbon Disulfide	3.14	76	6700	1.38	ug/l	96
19) Methyl Acetate	3.34	43	2435	1.48	ug/l	98
20) Methyl tert-butyl Ether	3.92	73	2140	1.06	ug/l #	88
21) Methylene Chloride	3.51	84	5676	3.68	ug/l #	94
22) trans-1,2-Dichloroethene	3.90	96	2034	1.39	ug/l #	88
24) Vinyl Acetate	4.62	43	2939	17.69	ug/l #	87
25) 1,1-Dichloroethane	4.57	63	3777	1.41	ug/l #	93
26) 2-Butanone	5.46	43	1928	6.05	ug/l #	63
27) 2,2-Dichloropropane	5.43	77	3986	1.44	ug/l	98
28) cis-1,2-Dichloroethene	5.44	96	2057	1.35	ug/l	53
29) Bromochloromethane	5.80	49	1470	1.39	ug/l #	82
30) Chloroform	5.98	83	5038	1.55	ug/l	95
31) Cyclohexane	6.30	56	6227	2.47	ug/l #	25
32) 1,1,1-Trichloroethane	6.18	97	3944	1.36	ug/l #	84
36) 1,1-Dichloropropene	6.44	75	3290	1.25	ug/l #	91
37) Ethyl Acetate	5.56	43	1836	2.16	ug/l #	88
38) Carbon Tetrachloride	6.41	117	3623	1.32	ug/l	91
39) Methylcyclohexane	8.09	83	2912	1.09	ug/l #	72

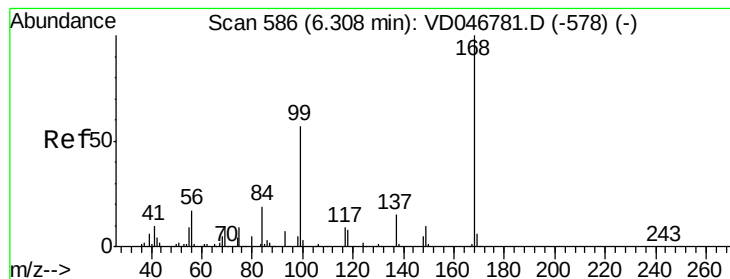
Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046791.D
 Acq On : 18 Sep 2015 19:45
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Quant Time: Sep 19 00:11:17 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	6.74	78	8672	1.29	ug/l	91
41) Methacrylonitrile	5.74	41	545	1.15	ug/l #	36
42) 1,2-Dichloroethane	6.83	62	2809	1.34	ug/l	97
43) Isopropyl Acetate	8.42	43	1278	1.14	ug/l #	78
44) Trichloroethene	7.75	130	2308	1.37	ug/l	98
45) 1,2-Dichloropropane	8.16	63	1994	1.19	ug/l #	67
46) Dibromomethane	8.27	93	1164	1.23	ug/l	88
47) Bromodichloromethane	8.56	83	3313	1.33	ug/l #	92
48) Methyl methacrylate	8.09	41	2333	1.36	ug/l #	83
49) 1,4-Dioxane	8.30	88	102	16.13	ug/l #	51
51) 4-Methyl-2-Pentanone	9.49	43	4086	5.06	ug/l	96
52) Toluene	9.73	92	5969	1.44	ug/l	79
55) 1,1,2-Trichloroethane	10.40	97	1441	1.34	ug/l #	79
56) Ethyl methacrylate	10.38	69	490	4.28	ug/l	91
57) 1,3-Dichloropropane	10.61	76	2683	1.34	ug/l #	83
58) 2-Chloroethyl Vinyl ether	9.04	63	1892	9.80	ug/l	94
59) 2-Hexanone	10.72	43	2566	4.40	ug/l	85
60) Dibromochloromethane	10.89	129	1931	1.31	ug/l	96
61) 1,2-Dibromoethane	11.02	107	1147	1.08	ug/l	83
64) Tetrachloroethene	10.47	164	2503	1.43	ug/l #	78
65) Chlorobenzene	11.62	112	5961	1.31	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.72	131	2456	1.47	ug/l	93
67) Ethyl Benzene	11.73	91	9665	1.06	ug/l	100
68) m/p-Xylenes	11.88	106	5361	1.86	ug/l	87
71) Bromoform	12.50	173	1047	1.18	ug/l #	75
74) N-amyl acetate	12.51	43	1393	5.36	ug/l #	82
75) 1,1,2,2-Tetrachloroethane	12.99	83	1630	1.31	ug/l #	90
76) 1,2,3-Trichloropropane	13.04	75	1736	1.30	ug/l	90
77) Bromobenzene	12.99	156	2588	1.33	ug/l	97
78) n-propylbenzene	13.08	91	11517	1.06	ug/l	98
79) 2-Chlorotoluene	13.16	91	6937	1.15	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.85	75	57135	147.99	ug/l #	9
82) 4-Chlorotoluene	13.28	91	8231	1.14	ug/l	99
83) tert-Butylbenzene	13.55	119	5638	1.02	ug/l	96
87) 1,3-Dichlorobenzene	13.84	146	4871	1.35	ug/l	82
88) 1,4-Dichlorobenzene	13.94	146	5729	1.59	ug/l	90
90) Hexachloroethane	14.48	117	1869	1.26	ug/l	82
91) 1,2-Dichlorobenzene	14.25	146	4131	1.36	ug/l	83
92) 1,2-Dibromo-3-Chloropropan	14.91	75	186	1.16	ug/l #	47
93) 1,2,4-Trichlorobenzene	15.58	180	2229	1.27	ug/l	69
94) Hexachlorobutadiene	15.69	225	2288	1.59	ug/l	82
95) Naphthalene	15.83	128	1897	3.16	ug/l	99
96) 1,2,3-Trichlorobenzene	16.03	180	1965	1.34	ug/l	90

(#) = 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: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

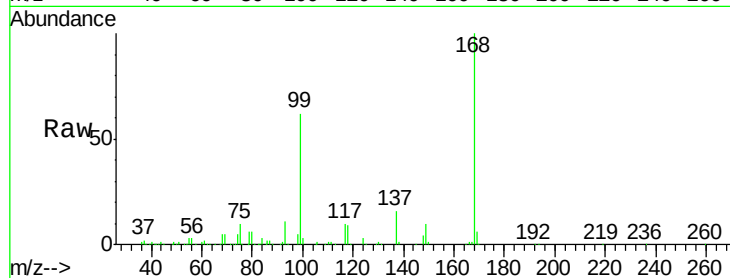
LOD-SOIL2015-01

Tgt Ion:168 Resp: 161473

Ion Ratio Lower Upper

168 100

99 61.6 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

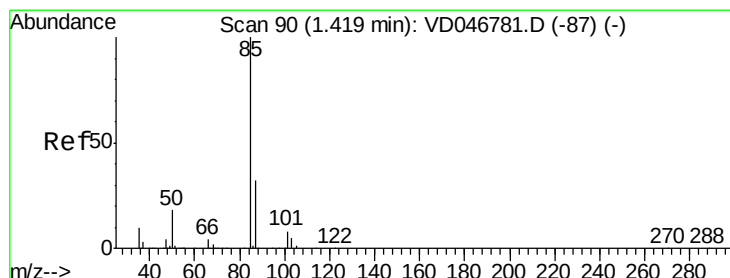
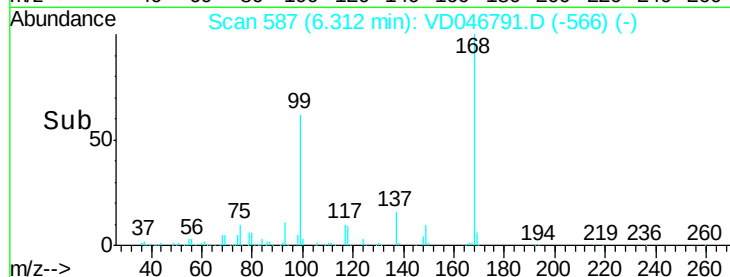
40000

20000

0

6.20 6.30 6.40 6.50

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.42 min Scan# 91

Delta R.T. 0.00 min

Lab File: VD046791.D

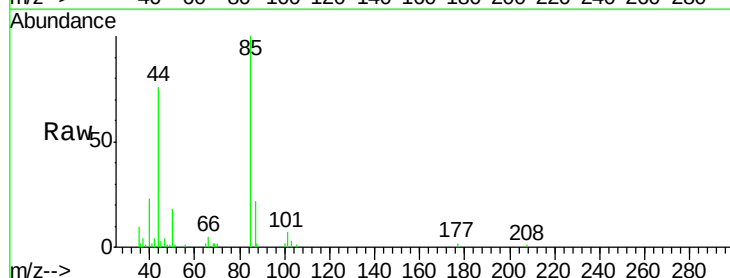
Acq: 18 Sep 2015 19:45

Tgt Ion: 85 Resp: 4045

Ion Ratio Lower Upper

85 100

87 21.9 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.42

4000

3000

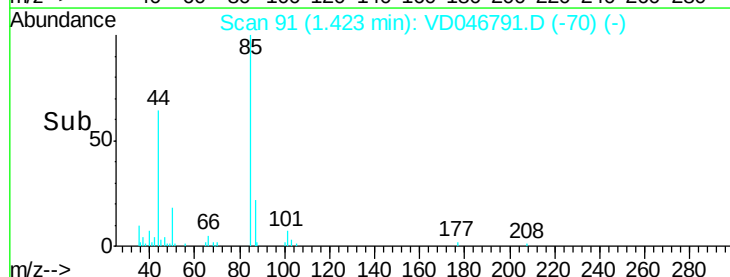
2000

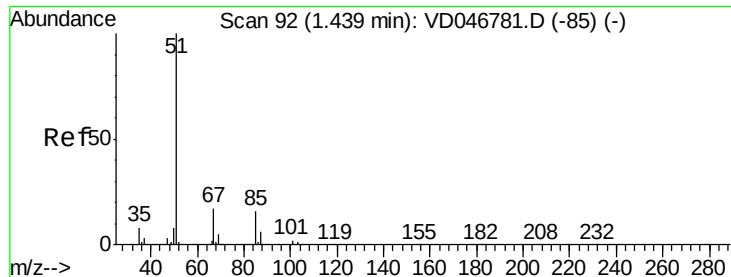
1000

0

1.35 1.40 1.45 1.50

Time-->





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.44 min Scan# 93

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

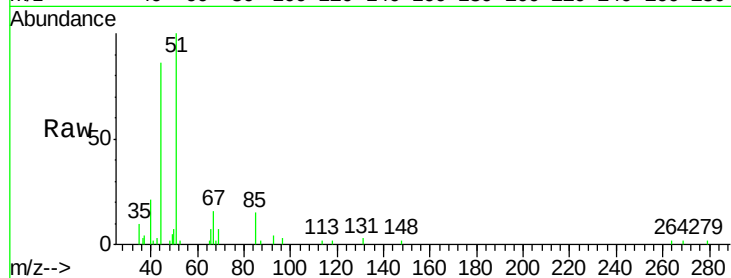
LOD-SOIL2015-01

Tgt Ion: 51 Resp: 3529

Ion Ratio Lower Upper

51 100

67 16.5 10.9 16.3#



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

3000

2500

2000

1500

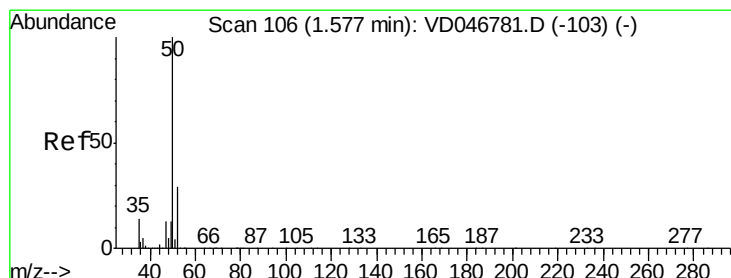
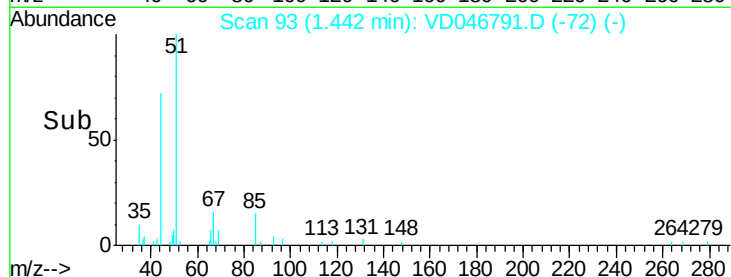
1000

500

0

1.35 1.40 1.45 1.50

Time-->



#4

Chloromethane

Concen: 1.70 ug/l

RT: 1.58 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD046791.D

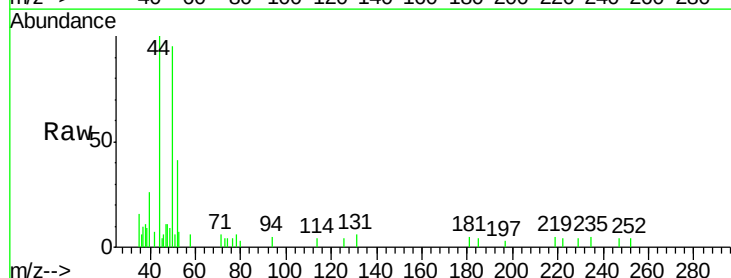
Acq: 18 Sep 2015 19:45

Tgt Ion: 50 Resp: 1615

Ion Ratio Lower Upper

50 100

52 43.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1500

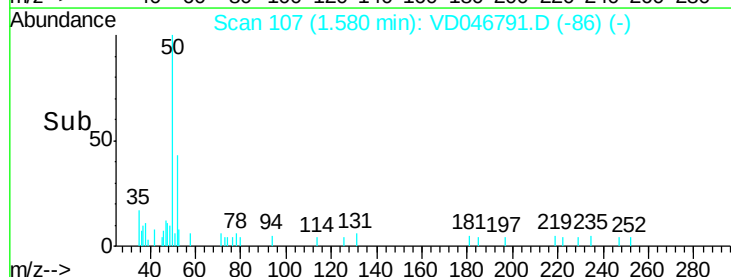
1000

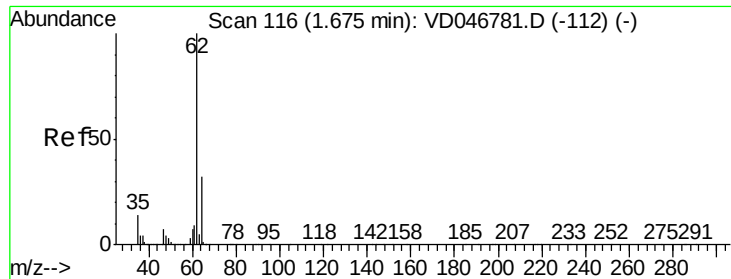
500

0

1.50 1.55 1.60

Time-->





#5

Vinyl Chloride

Concen: 1.94 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

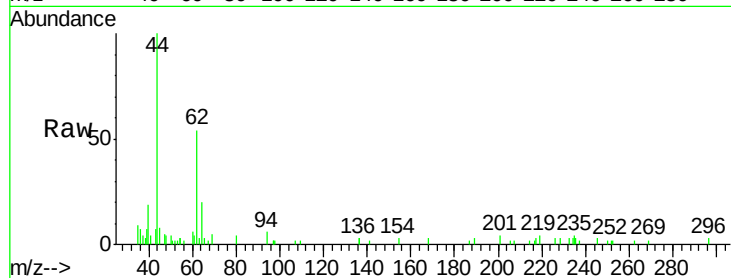
LOD-SOIL2015-01

Tgt Ion: 62 Resp: 1734

Ion Ratio Lower Upper

62 100

64 37.3 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1500

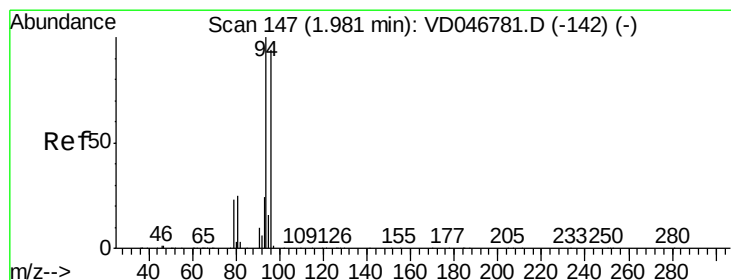
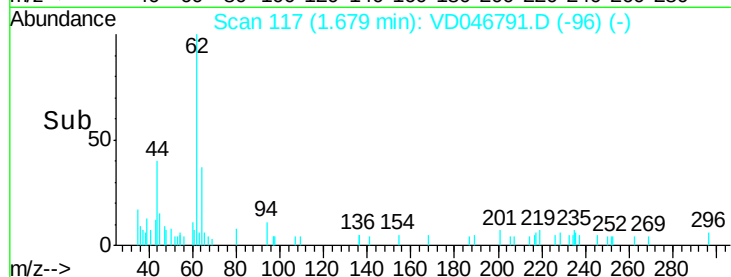
1000

500

0

1.60 1.65 1.70 1.75

Time-->



#6

Bromomethane

Concen: Below Cal

RT: 1.98 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD046791.D

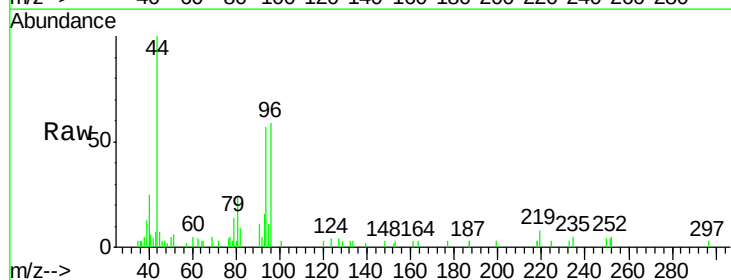
Acq: 18 Sep 2015 19:45

Tgt Ion: 94 Resp: 1689

Ion Ratio Lower Upper

94 100

96 103.3 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1500

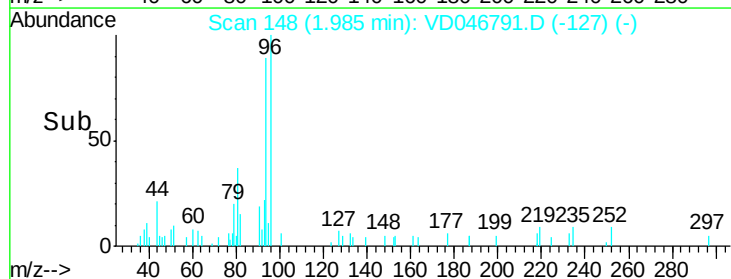
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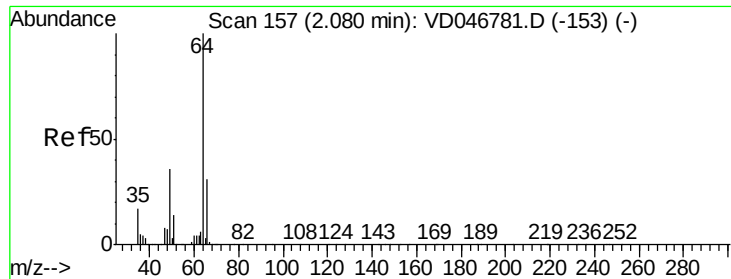
500

0

1.95 2.00

Time-->





#7

Chloroethane

Concen: 1.81 ug/l

RT: 2.09 min Scan# 159

Delta R.T. 0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

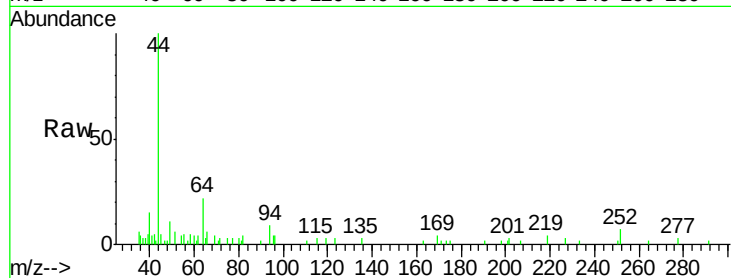
LOD-SOIL2015-01

Tgt Ion: 64 Resp: 1013

Ion Ratio Lower Upper

64 100

66 27.1 26.6 39.8



Abundance Ion 63.95 (63.65 to 64.65): VD0

Ion 65.90 (65.60 to 66.60): VD0

2.09

600

500

400

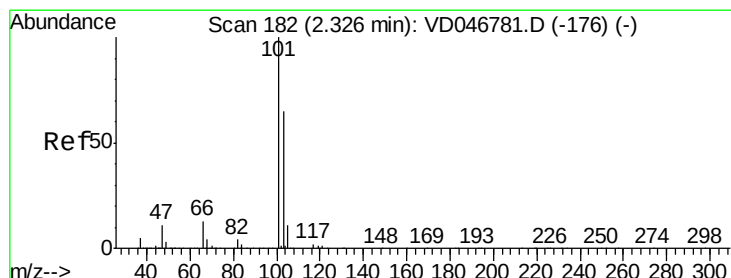
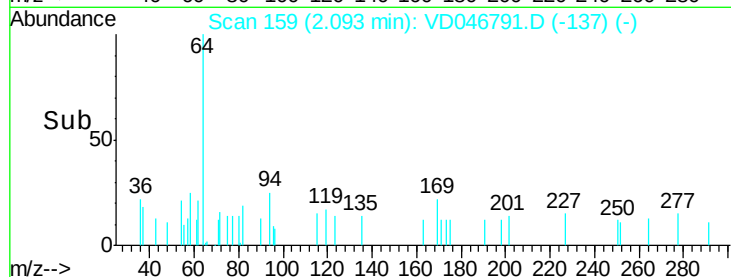
300

200

100

0

Time-->



#8

Trichlorofluoromethane

Concen: 1.78 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD046791.D

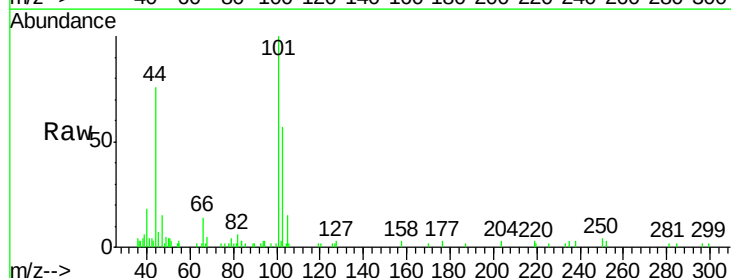
Acq: 18 Sep 2015 19:45

Tgt Ion: 101 Resp: 4704

Ion Ratio Lower Upper

101 100

103 56.7 53.2 79.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

2.33

3000

2500

2000

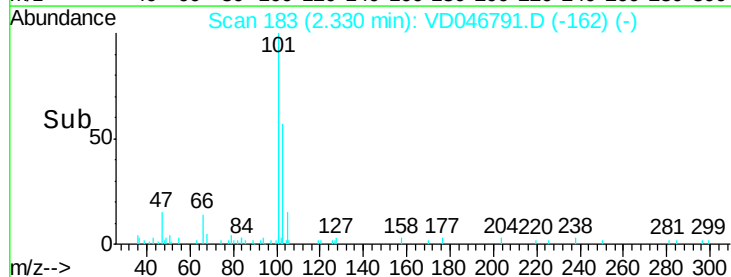
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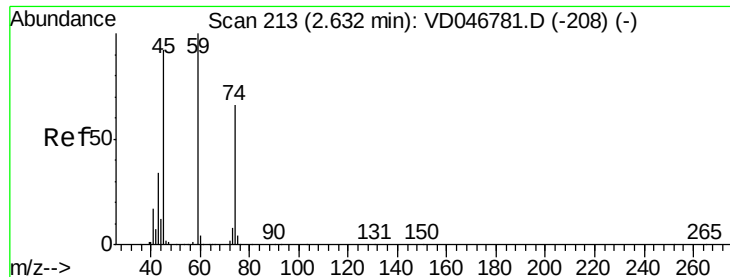
1000

500

0

Time-->





#9

Diethyl Ether

Concen: 1.32 ug/l

RT: 2.64 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

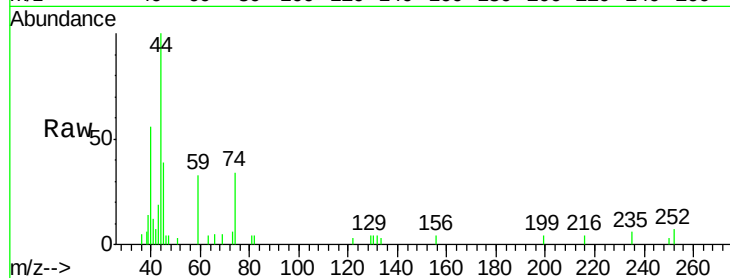
LOD-SOIL2015-01

Tgt Ion: 74 Resp: 620

Ion Ratio Lower Upper

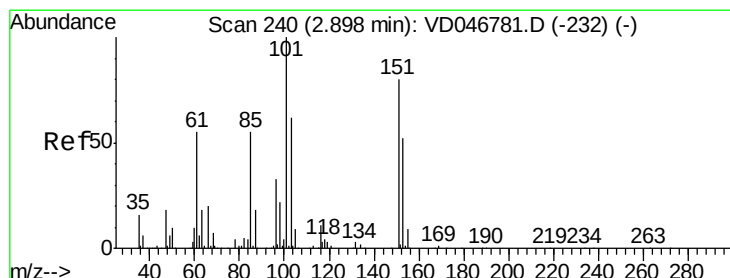
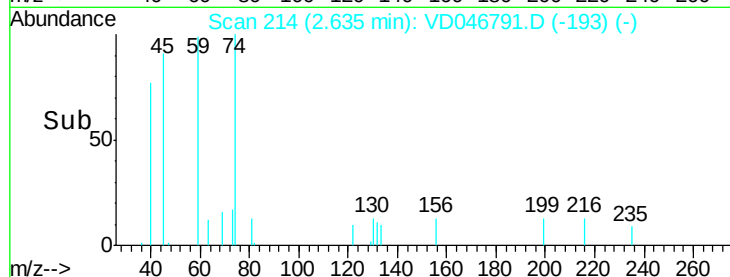
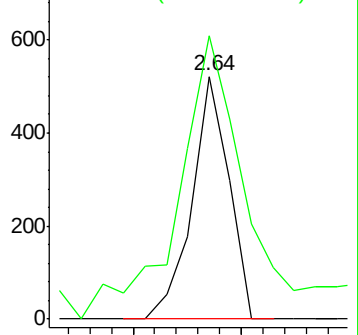
74 100

45 116.5 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: 1.62 ug/l

RT: 2.90 min Scan# 241

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

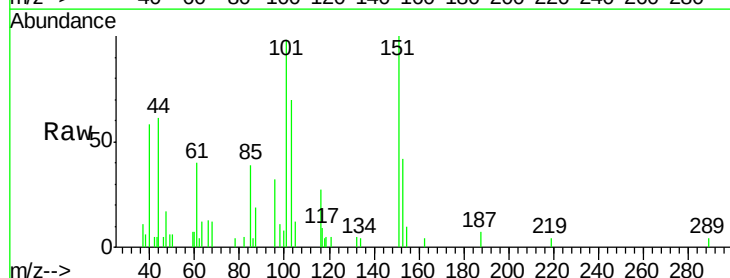
Tgt Ion: 101 Resp: 2673

Ion Ratio Lower Upper

101 100

85 39.6 42.0 63.0#

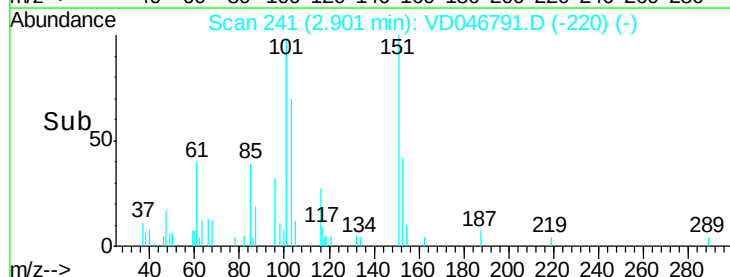
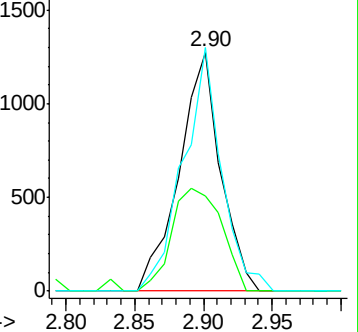
151 102.0 65.2 97.8#

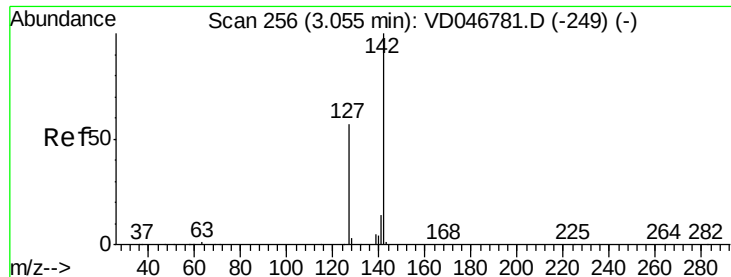


Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V

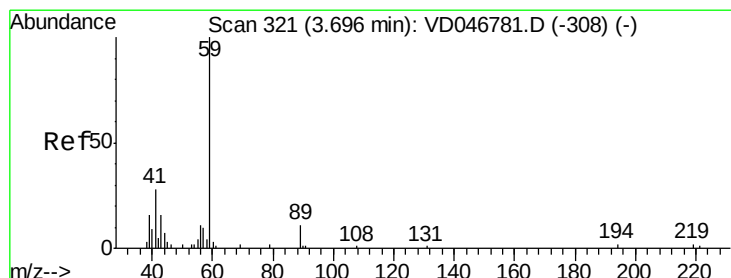
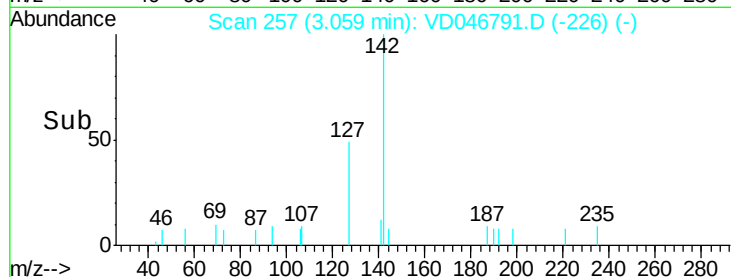
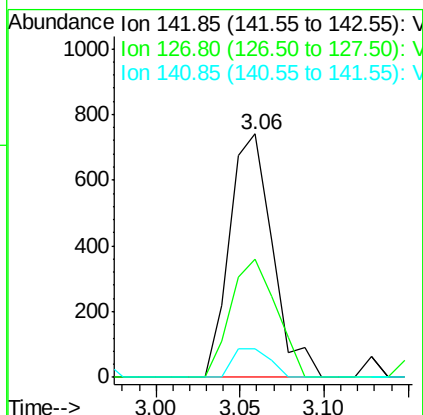
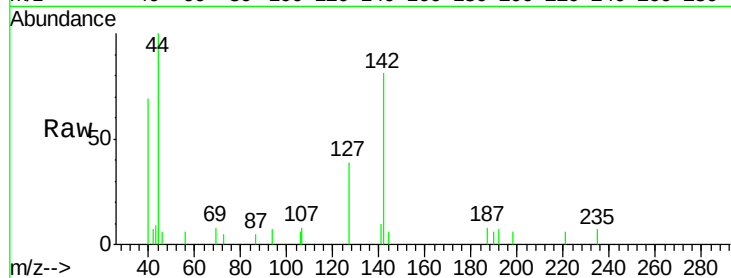




#11
Methyl Iodide
Concen: 2.39 ug/l
RT: 3.06 min Scan# 257
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

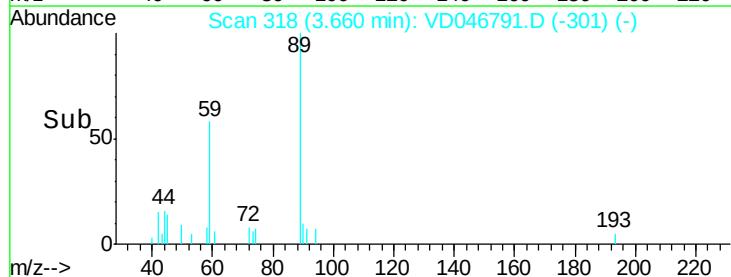
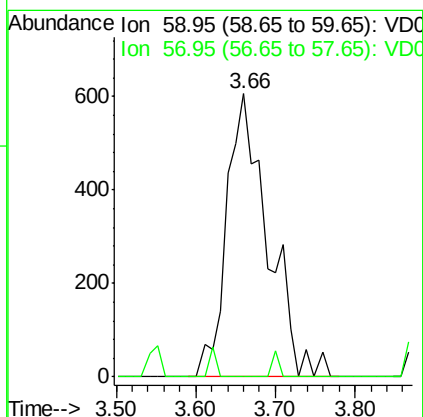
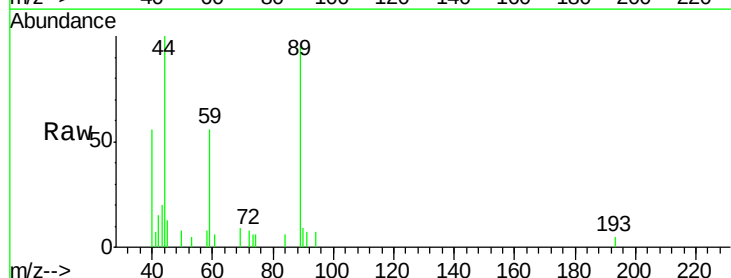
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

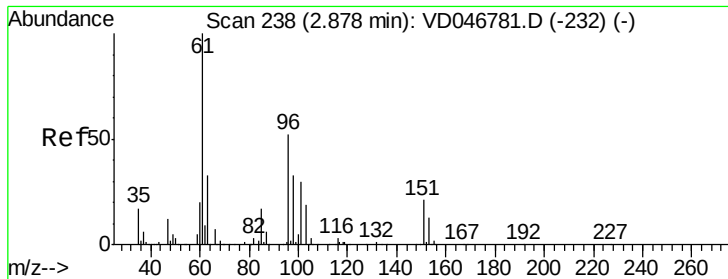
Tgt Ion:142 Resp: 1314
Ion Ratio Lower Upper
142 100
127 48.7 41.2 61.8
141 11.7 11.6 17.4



#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.66 min Scan# 318
Delta R.T. -0.04 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 59 Resp: 2179
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

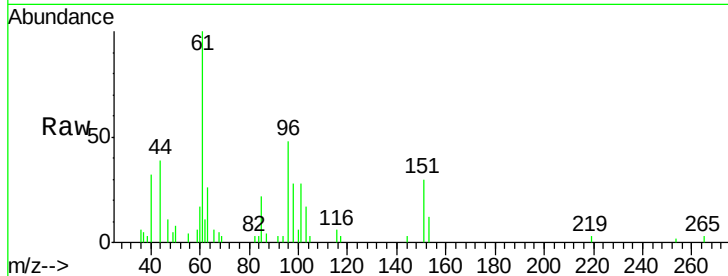




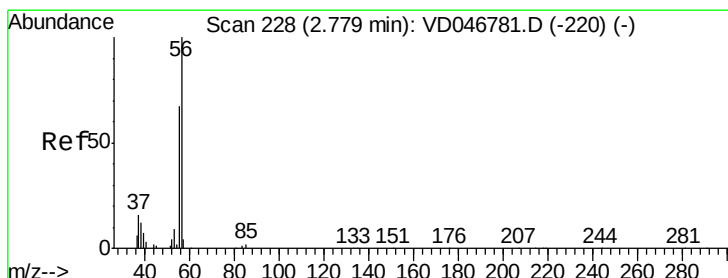
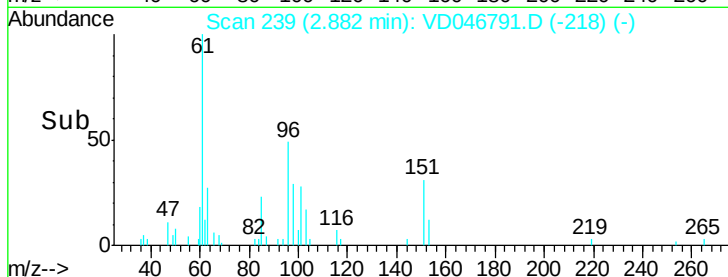
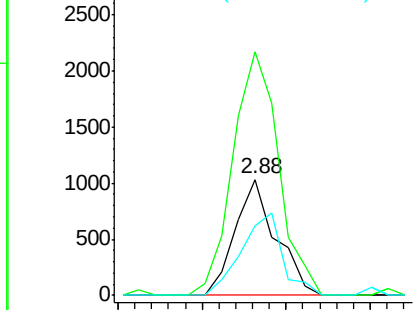
#13
 1,1-Dichloroethene
 Concen: 1.34 ug/l
 RT: 2.88 min Scan# 239
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion: 96 Resp: 1740
 Ion Ratio Lower Upper
 96 100
 61 209.5 152.2 228.4
 98 59.4 51.2 76.8

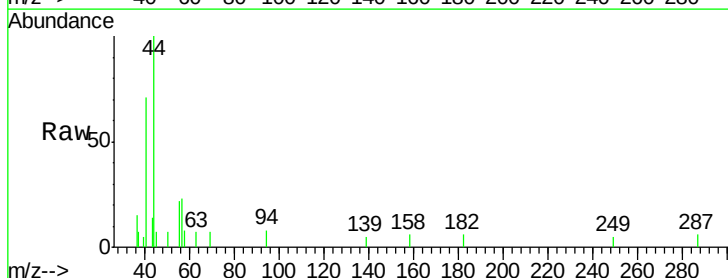


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC

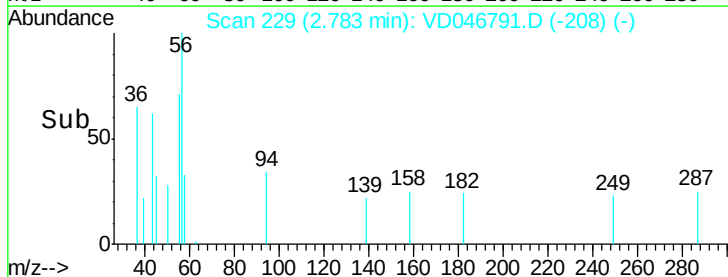
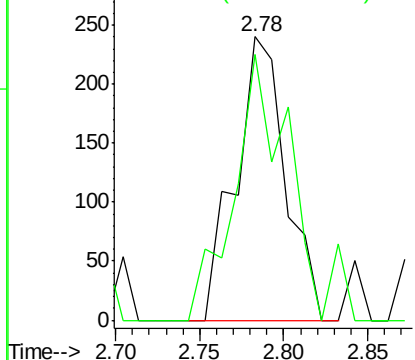


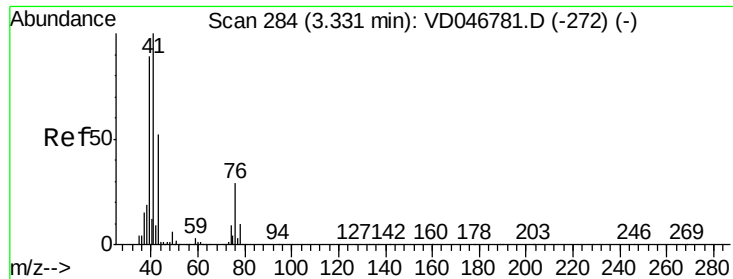
#14
 Acrolein
 Concen: 5.76 ug/l
 RT: 2.78 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion: 56 Resp: 494
 Ion Ratio Lower Upper
 56 100
 55 93.7 62.6 93.8



Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC

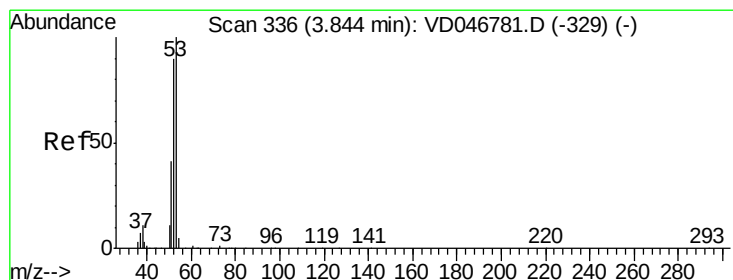
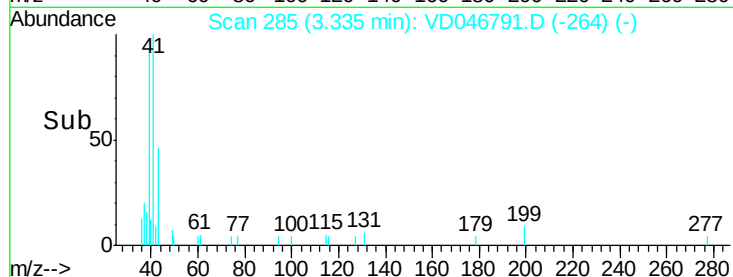
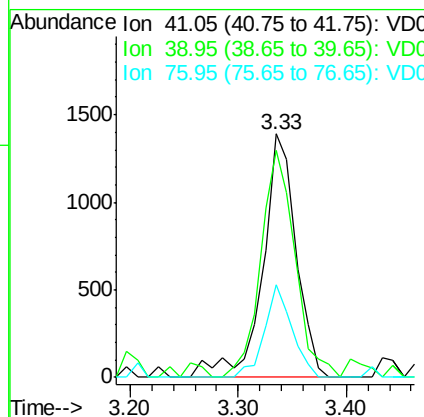
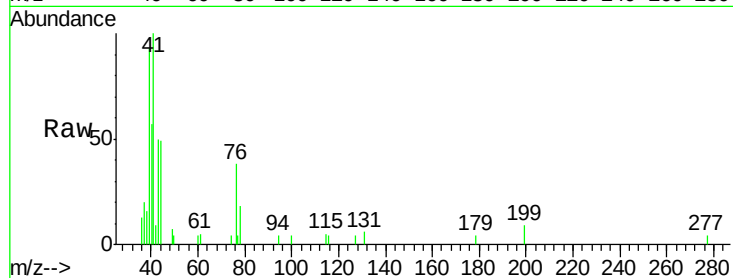




#15
 Allyl chloride
 Concen: 1.14 ug/l
 RT: 3.33 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

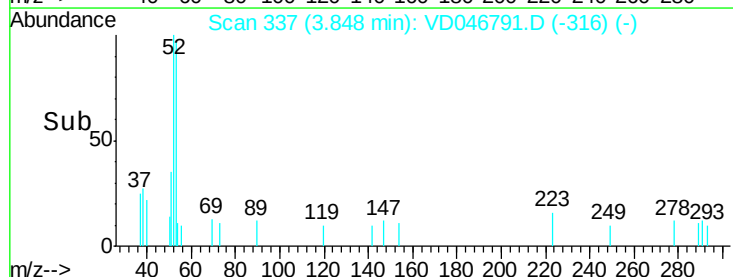
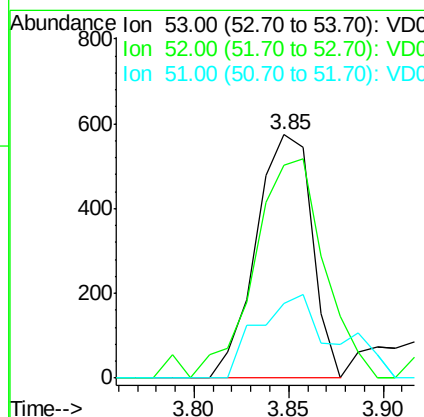
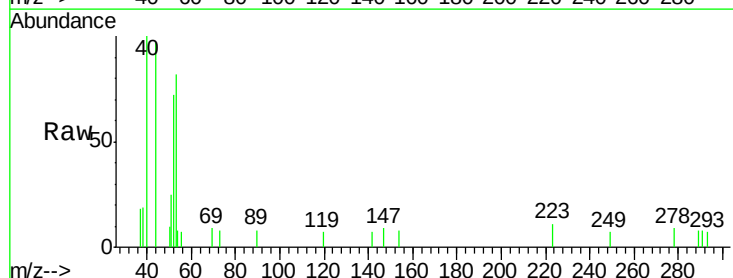
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

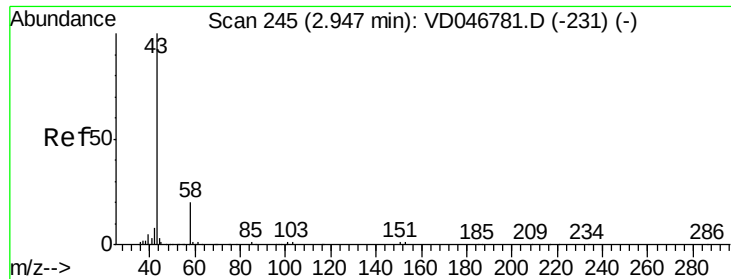
Tgt Ion: 41 Resp: 2990
 Ion Ratio Lower Upper
 41 100
 39 93.2 58.8 88.2#
 76 38.1 22.7 34.1#



#16
 Acrylonitrile
 Concen: 6.02 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion: 53 Resp: 1180
 Ion Ratio Lower Upper
 53 100
 52 87.5 66.8 100.2
 51 30.7 31.2 46.8#





#17

Acetone

Concen: 9.88 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

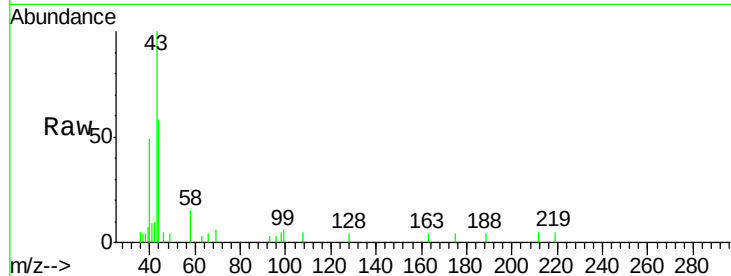
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 2804

Ion Ratio Lower Upper

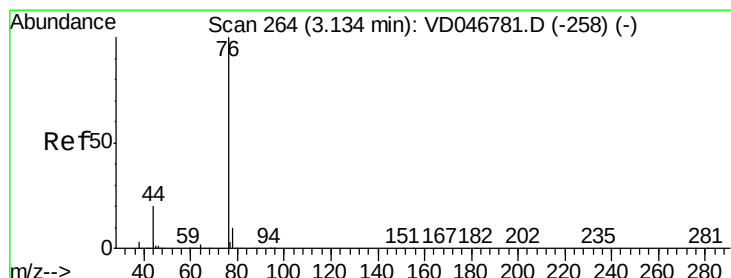
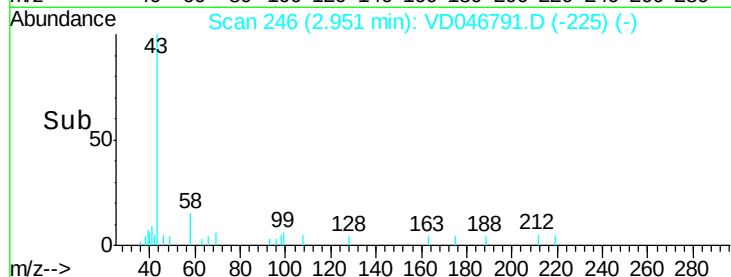
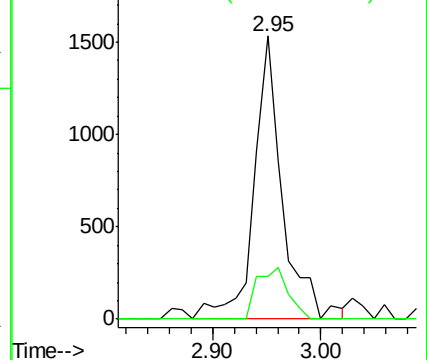
43 100

58 15.1 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: 1.38 ug/l

RT: 3.14 min Scan# 265

Delta R.T. 0.00 min

Lab File: VD046791.D

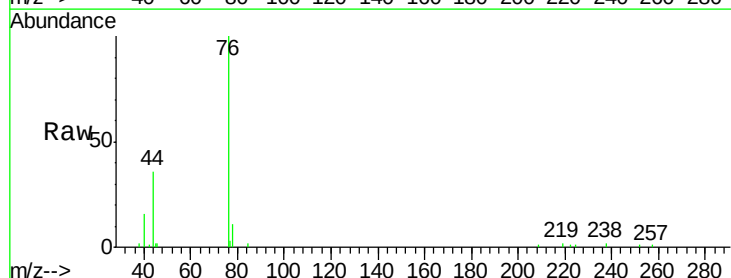
Acq: 18 Sep 2015 19:45

Tgt Ion: 76 Resp: 6700

Ion Ratio Lower Upper

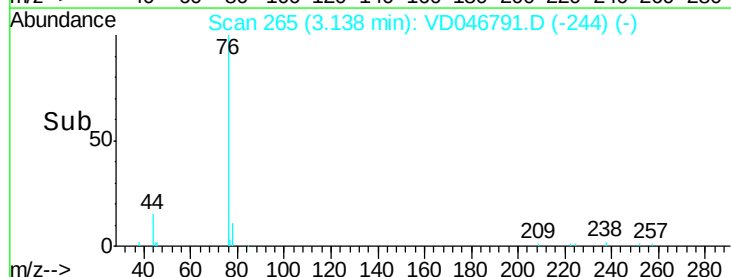
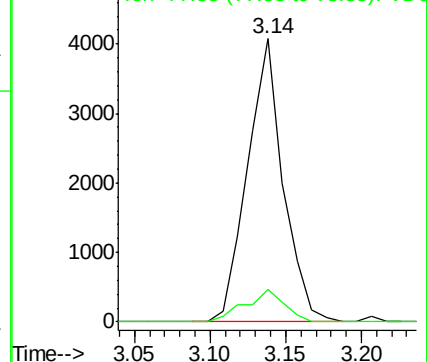
76 100

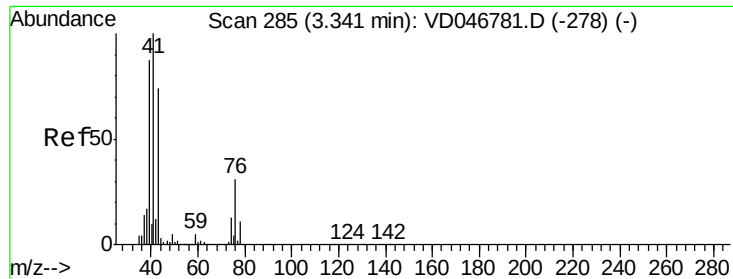
78 11.5 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC





#19

Methyl Acetate

Concen: 1.48 ug/l

RT: 3.34 min Scan# 286

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

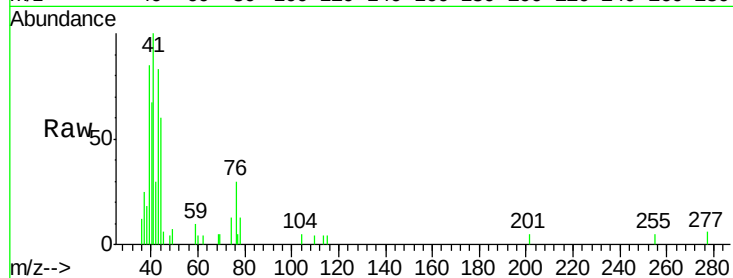
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 2435

Ion Ratio Lower Upper

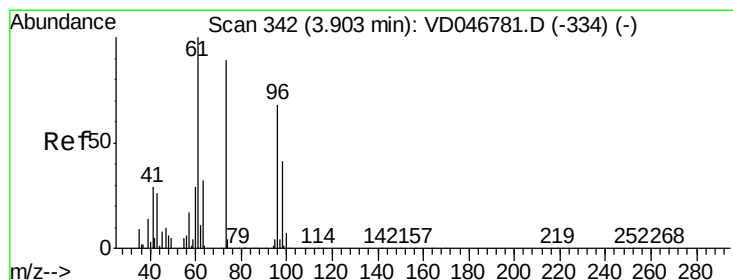
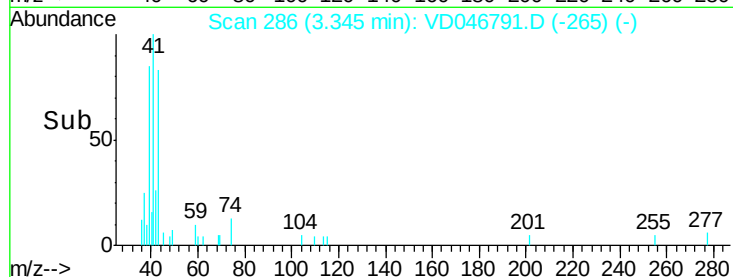
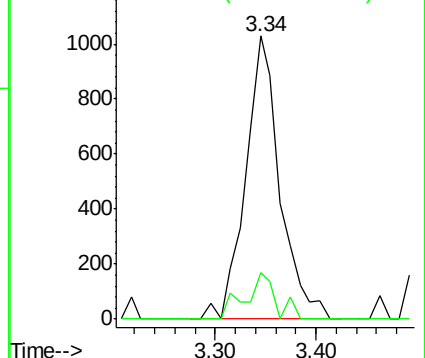
43 100

74 16.2 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methyl tert-butyl Ether

Concen: 1.06 ug/l

RT: 3.92 min Scan# 344

Delta R.T. 0.01 min

Lab File: VD046791.D

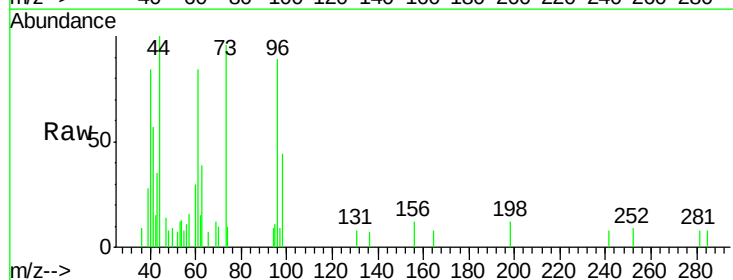
Acq: 18 Sep 2015 19:45

Tgt Ion: 73 Resp: 2140

Ion Ratio Lower Upper

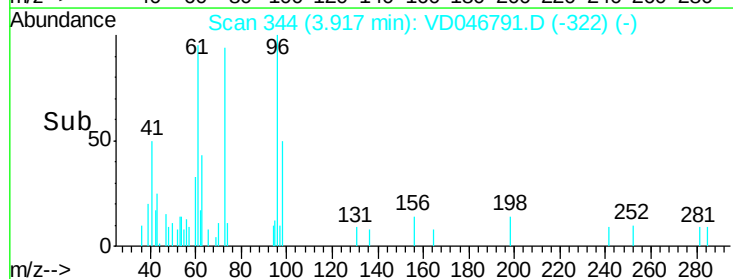
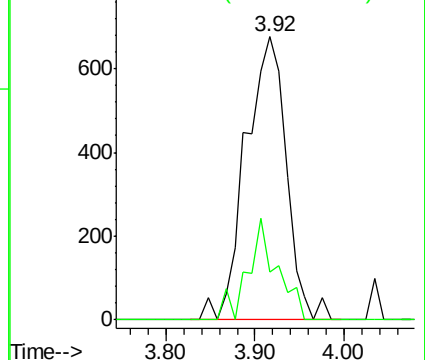
73 100

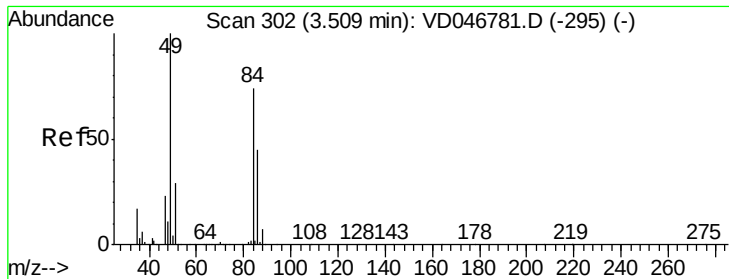
57 17.0 18.1 27.1#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC

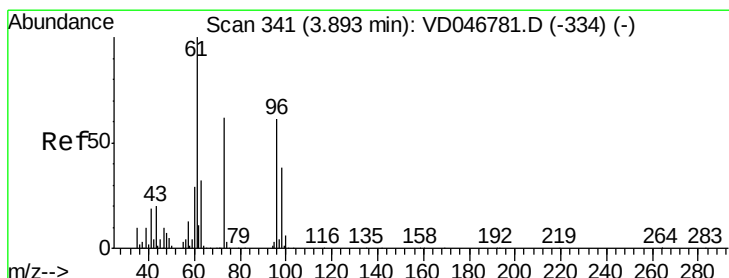
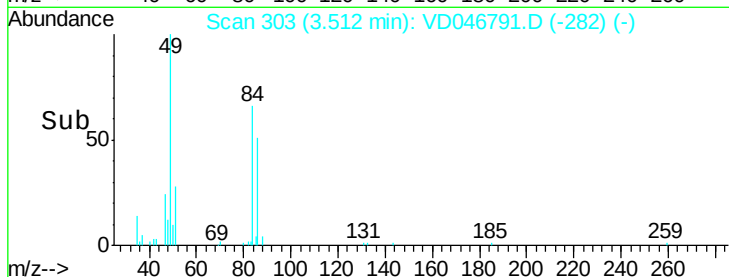
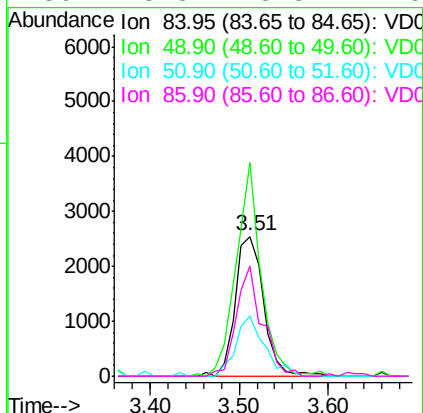
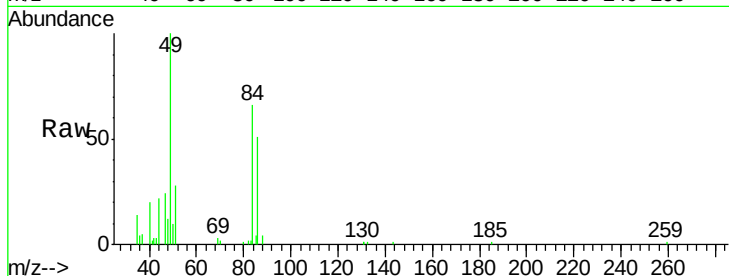




#21
Methylene Chloride
Concen: 3.68 ug/l
RT: 3.51 min Scan# 303
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

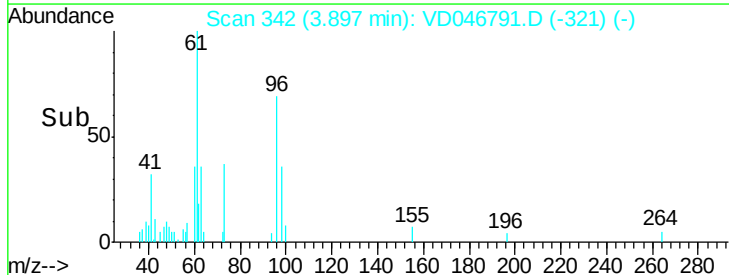
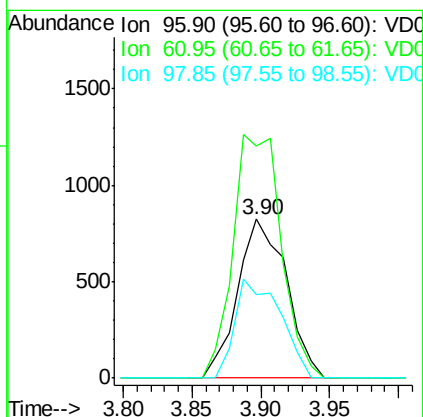
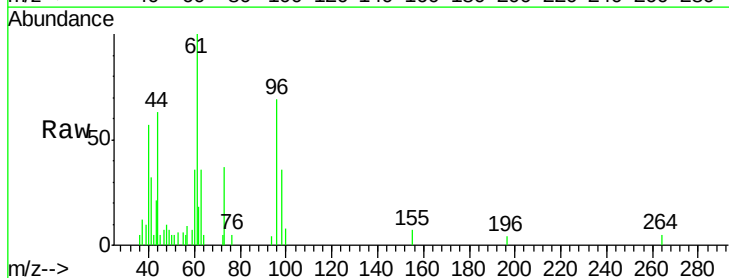
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

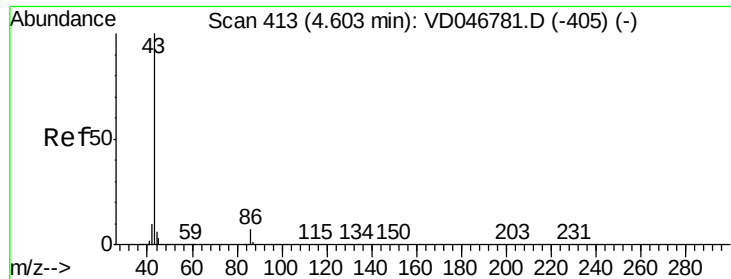
Tgt Ion: 84 Resp: 5676
Ion Ratio Lower Upper
84 100
49 152.4 122.1 183.1
51 42.7 33.6 50.4
86 78.3 48.3 72.5#



#22
trans-1,2-Dichloroethene
Concen: 1.39 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 96 Resp: 2034
Ion Ratio Lower Upper
96 100
61 145.6 125.8 188.6
98 52.6 54.5 81.7#





#24

Vinyl Acetate

Concen: 17.69 ug/l

RT: 4.62 min Scan# 415

Delta R.T. 0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

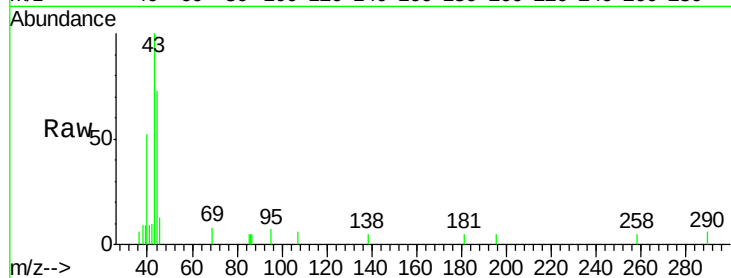
LOD-SOIL2015-01

Tgt Ion: 43 Resp: 2939

Ion Ratio Lower Upper

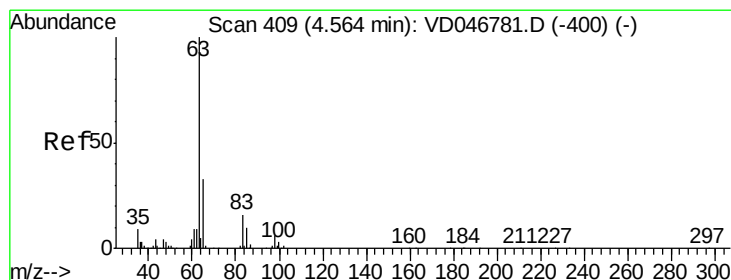
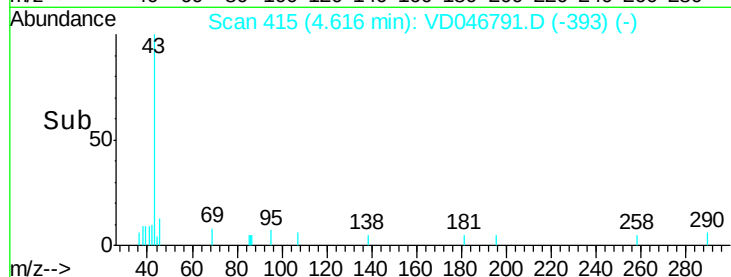
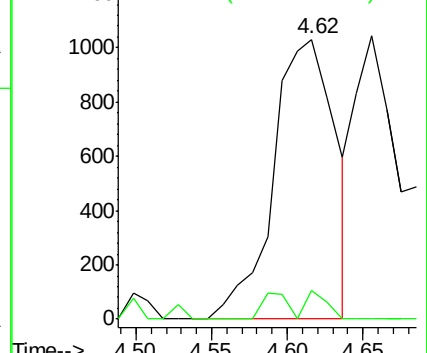
43 100

86 10.4 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: 1.41 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

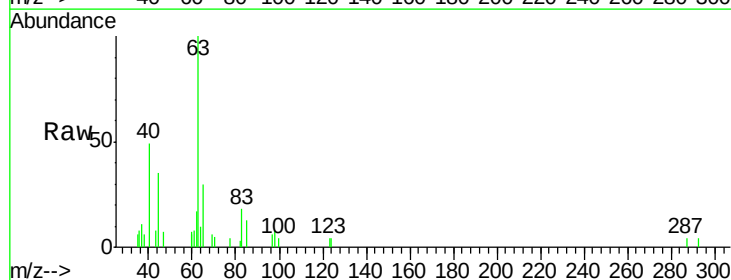
Tgt Ion: 63 Resp: 3777

Ion Ratio Lower Upper

63 100

98 8.2 2.5 7.5#

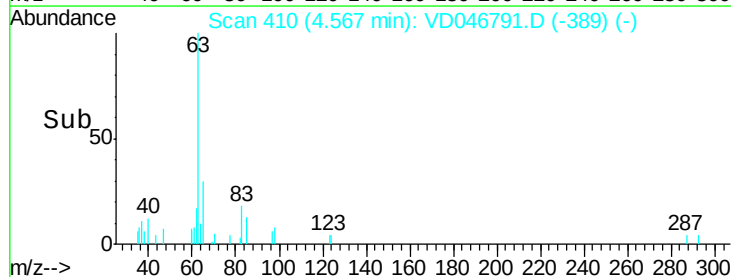
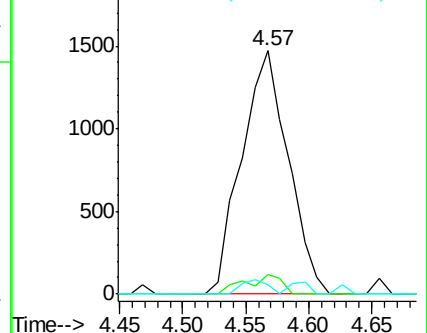
100 4.1 1.5 4.5

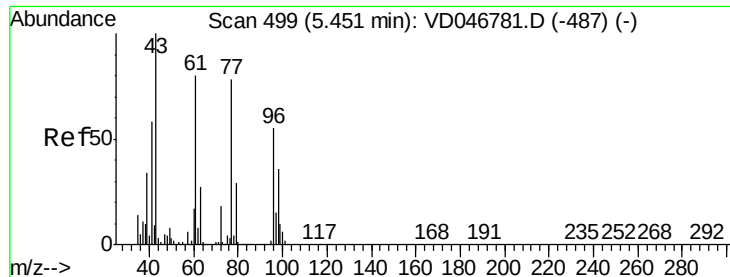


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

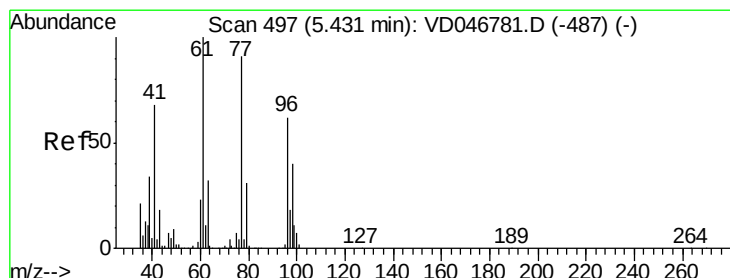
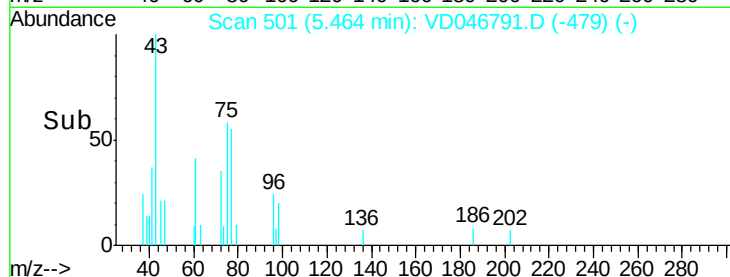
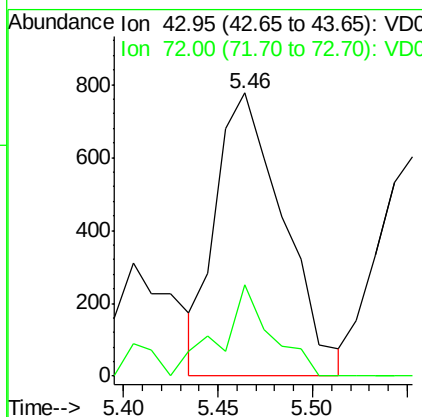
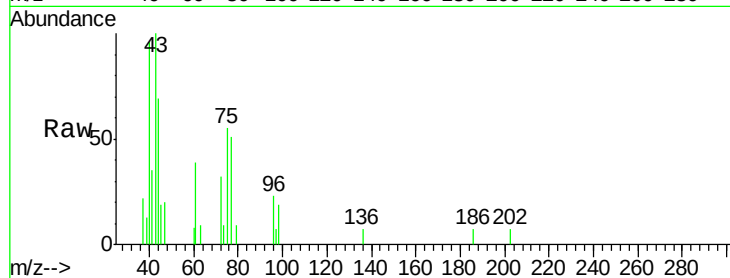




#26
2-Butanone
Concen: 6.05 ug/l
RT: 5.46 min Scan# 501
Delta R.T. 0.01 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

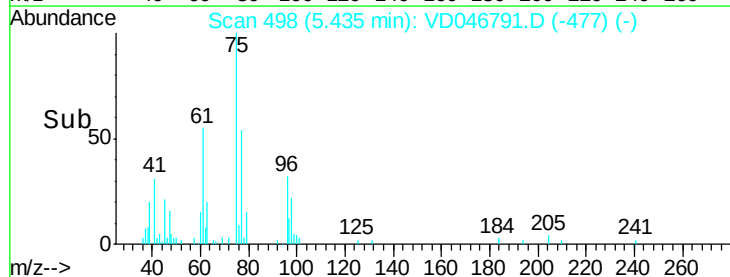
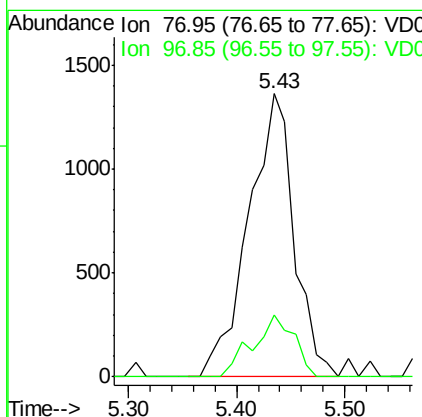
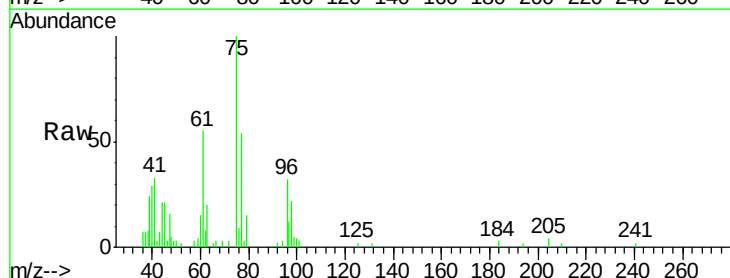
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

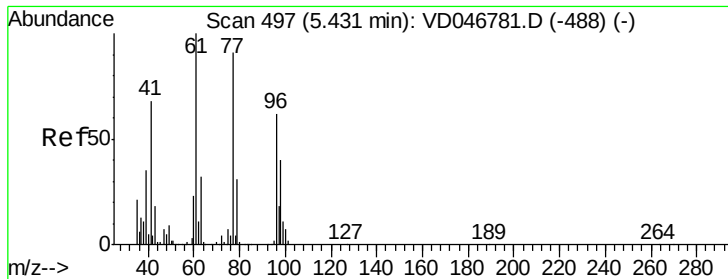
Tgt Ion: 43 Resp: 1928
Ion Ratio Lower Upper
43 100
72 32.4 13.4 20.0#



#27
2,2-Dichloropropane
Concen: 1.44 ug/l
RT: 5.43 min Scan# 498
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 77 Resp: 3986
Ion Ratio Lower Upper
77 100
97 21.7 10.4 31.1





#28

cis-1,2-Dichloroethene

Concen: 1.35 ug/l

RT: 5.44 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

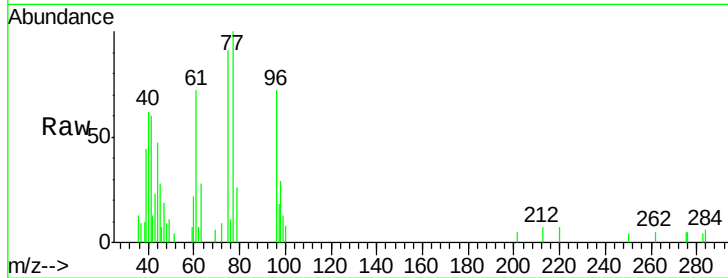
Tgt Ion: 96 Resp: 2057

Ion Ratio Lower Upper

96 100

61 99.8 0.0 348.0

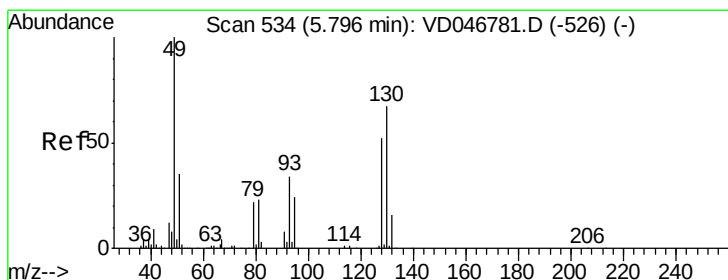
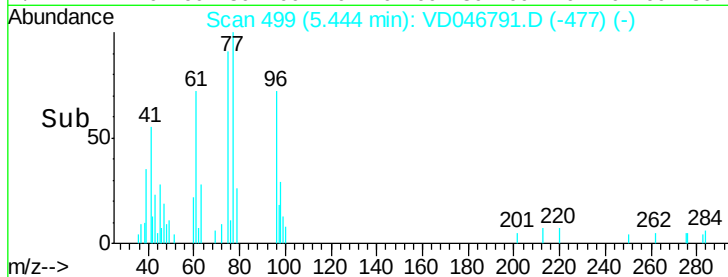
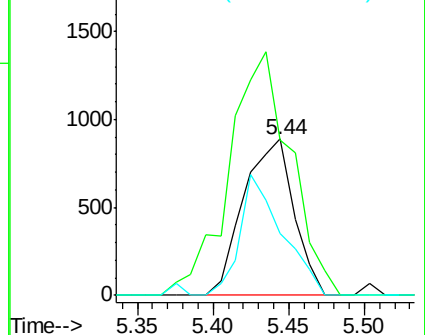
98 40.0 0.0 128.8



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



#29

Bromochloromethane

Concen: 1.39 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

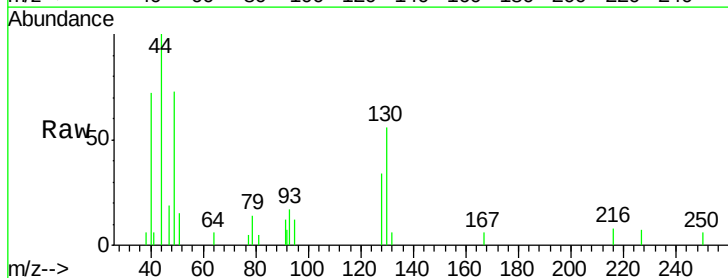
Tgt Ion: 49 Resp: 1470

Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.8

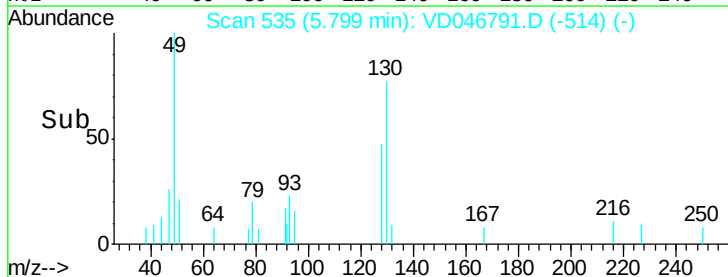
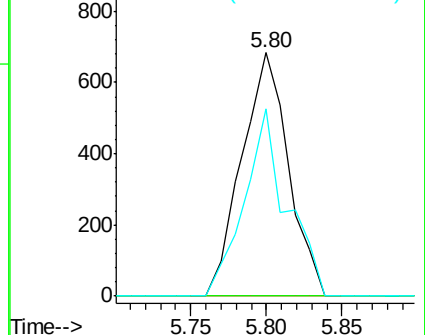
130 76.8 50.2 75.4#

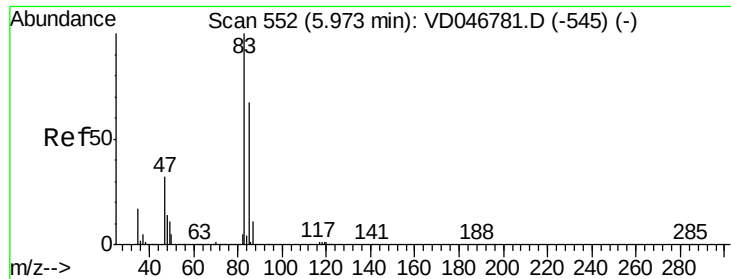


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

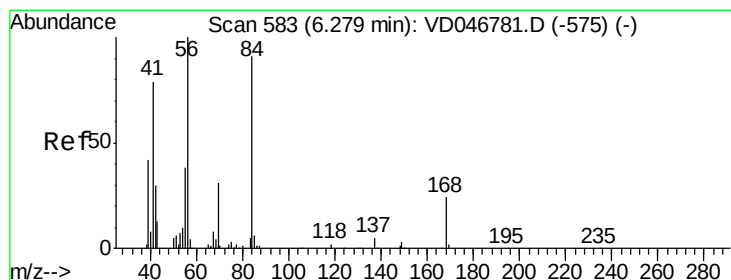
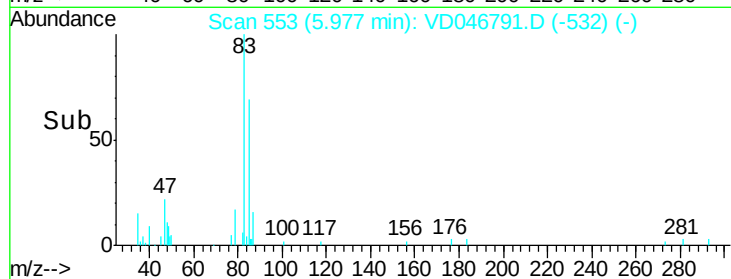
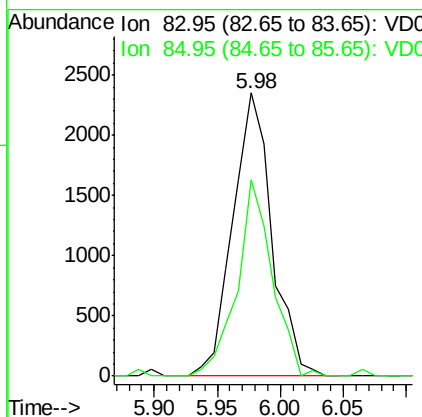
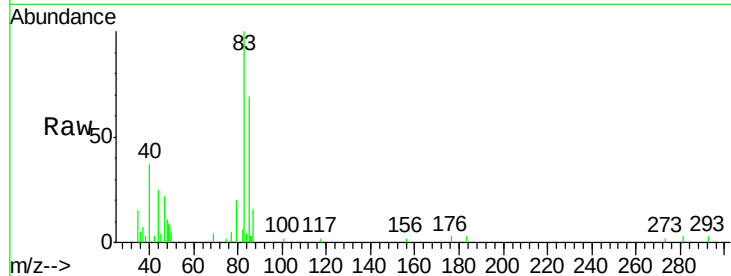




#30
Chloroform
Concen: 1.55 ug/l
RT: 5.98 min Scan# 553
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

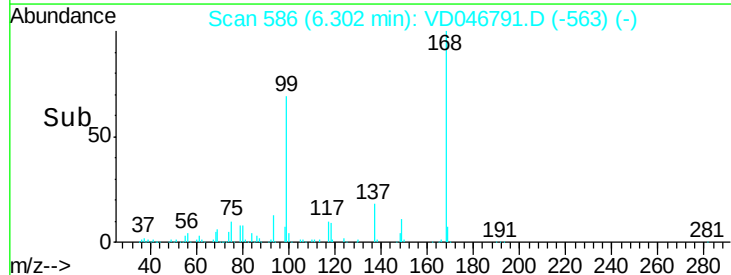
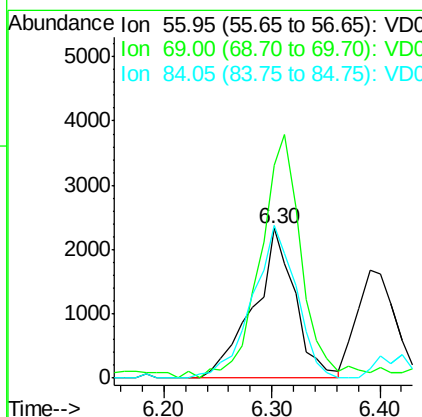
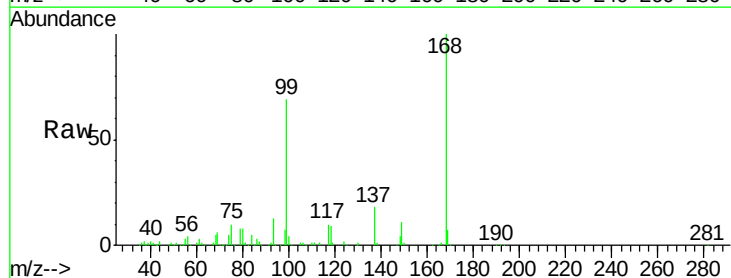
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

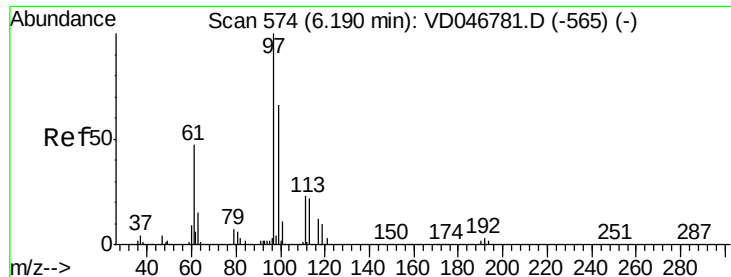
Tgt Ion: 83 Resp: 5038
Ion Ratio Lower Upper
83 100
85 69.3 52.5 78.7



#31
Cyclohexane
Concen: 2.47 ug/l
RT: 6.30 min Scan# 586
Delta R.T. 0.02 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 56 Resp: 6227
Ion Ratio Lower Upper
56 100
69 142.3 23.4 35.0#
84 101.8 63.8 95.8#





#32

1,1,1-Trichloroethane

Concen: 1.36 ug/l

RT: 6.18 min Scan# 574

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

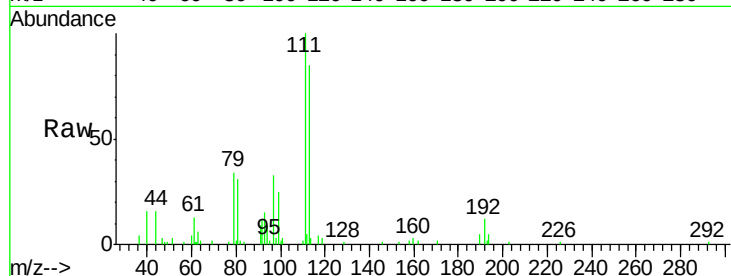
Tgt Ion: 97 Resp: 3944

Ion Ratio Lower Upper

97 100

99 77.4 50.2 75.4#

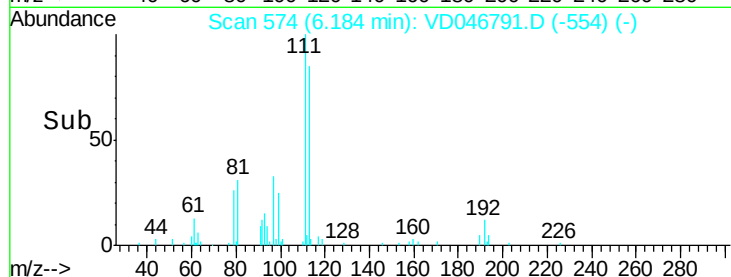
61 40.0 38.6 57.8



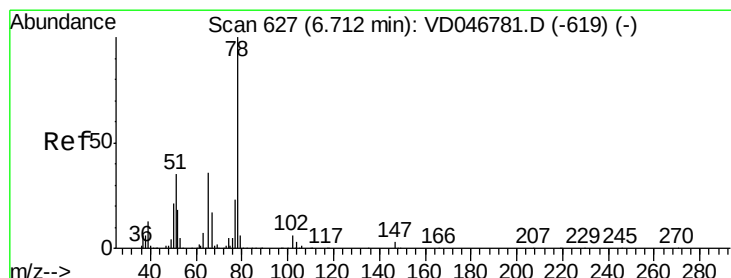
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time-->



#33

1,2-Dichloroethane-d4

Concen: 1.36 ug/l

RT: 6.73 min Scan# 629

Delta R.T. 0.01 min

Lab File: VD046791.D

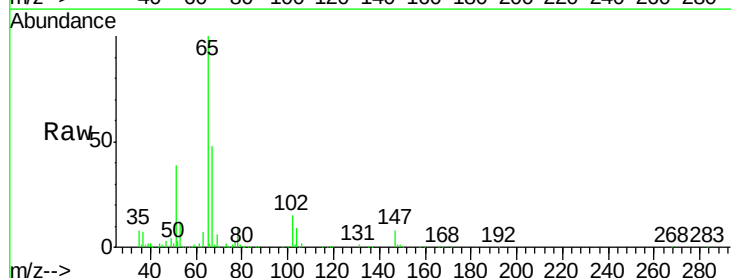
Acq: 18 Sep 2015 19:45

Tgt Ion: 65 Resp: 98179

Ion Ratio Lower Upper

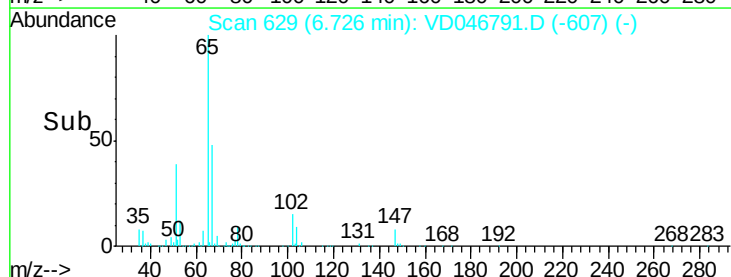
65 100

67 48.0 0.0 105.4

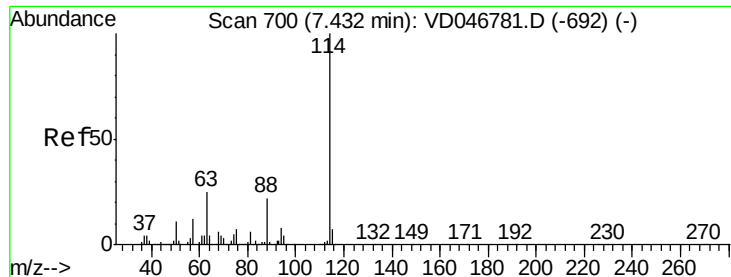


Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

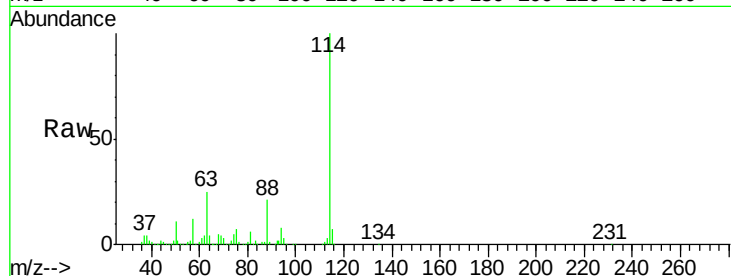
Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

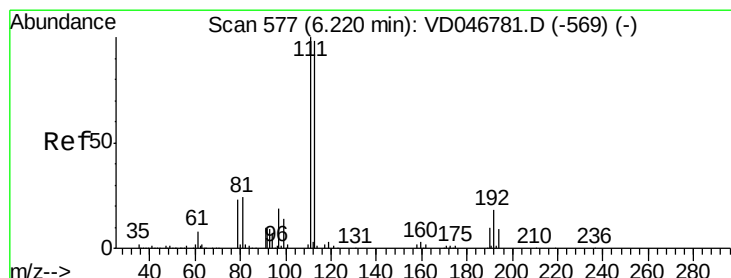
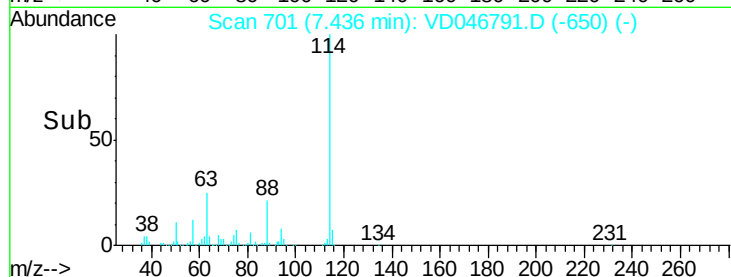
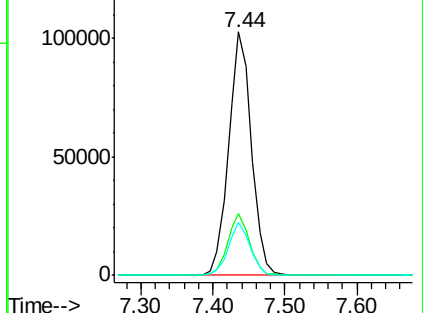
Tgt Ion:	114	Resp:	225933
Ion	Ratio	Lower	Upper
114	100		
63	25.3	0.0	49.8
88	21.5	0.0	43.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.00 ug/l

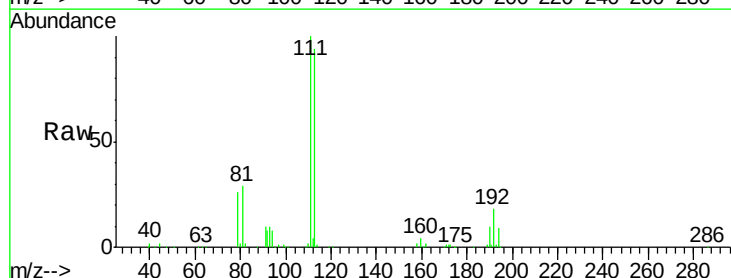
RT: 6.21 min Scan# 577

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

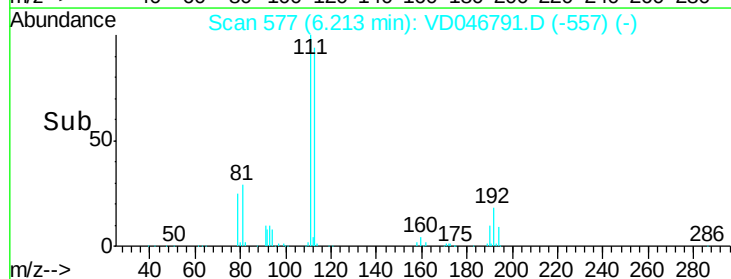
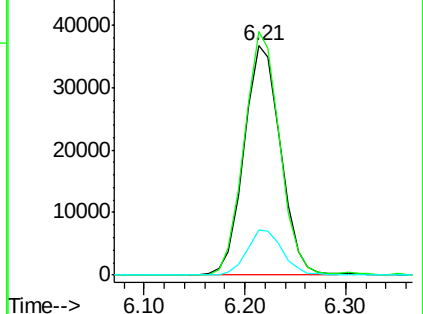
Tgt Ion:	113	Resp:	92647
Ion	Ratio	Lower	Upper
113	100		
111	106.2	79.4	119.0
192	19.5	14.6	22.0

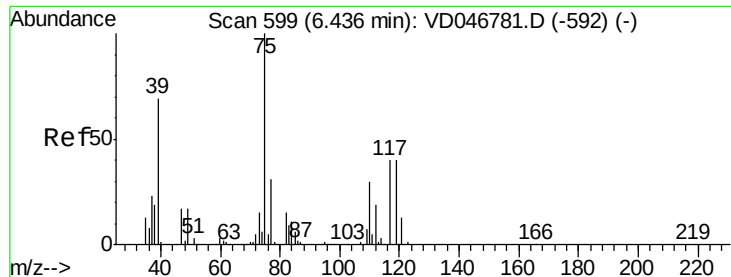


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

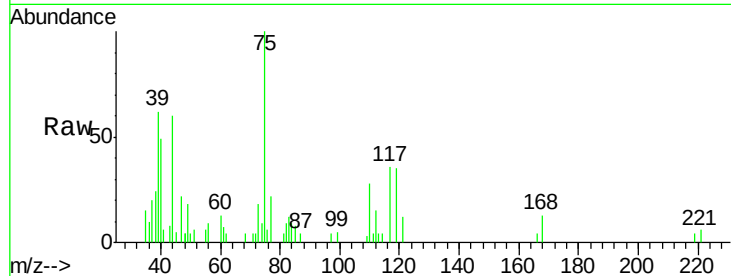




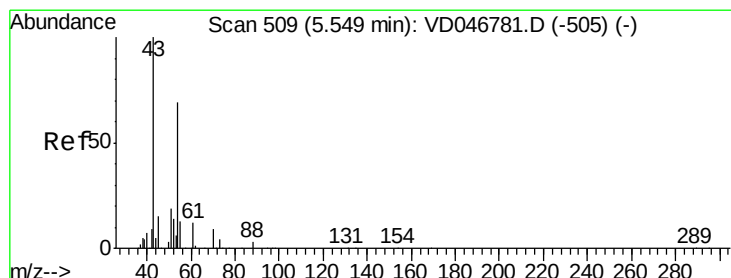
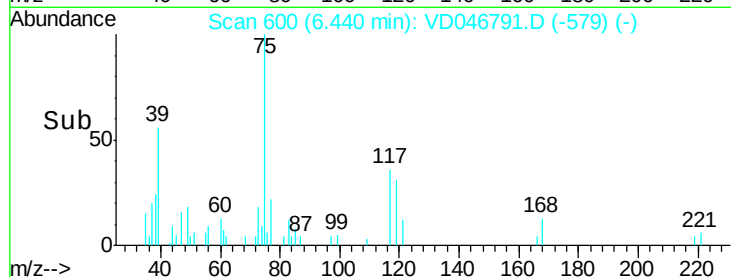
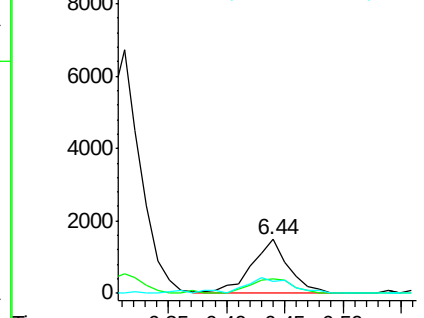
#36
 1,1-Dichloropropene
 Concen: 1.25 ug/l
 RT: 6.44 min Scan# 600
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion: 75 Resp: 3290
 Ion Ratio Lower Upper
 75 100
 110 28.0 13.7 41.0
 77 21.8 24.7 37.1#

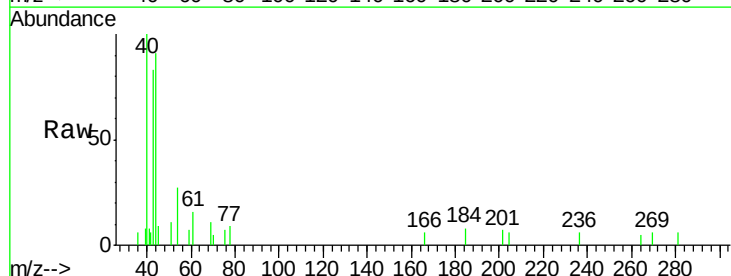


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

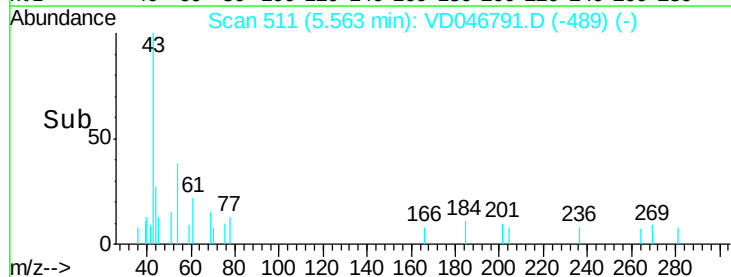
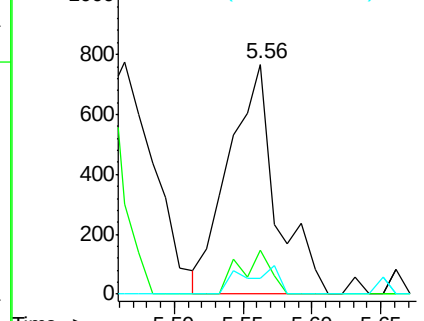


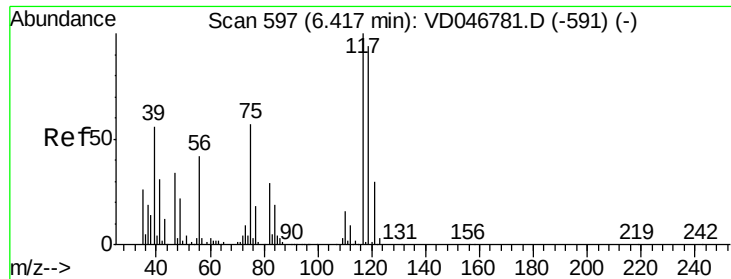
#37
 Ethyl Acetate
 Concen: 2.16 ug/l
 RT: 5.56 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion: 43 Resp: 1836
 Ion Ratio Lower Upper
 43 100
 61 18.9 9.4 14.2#
 70 6.6 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

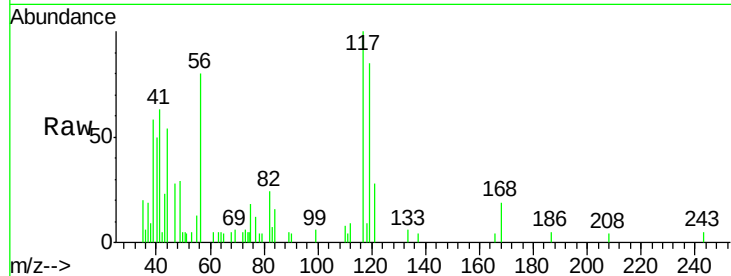




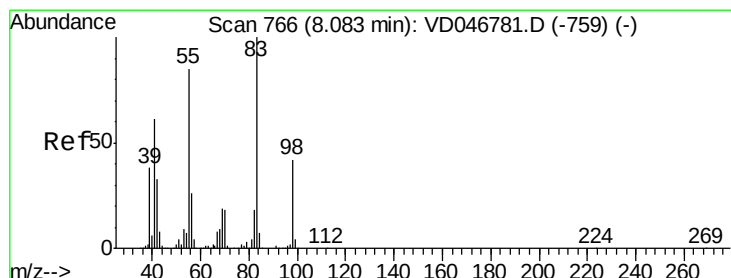
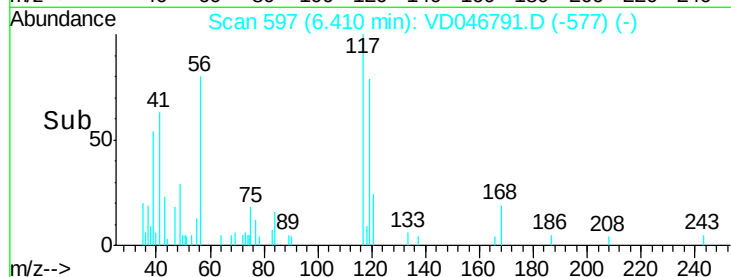
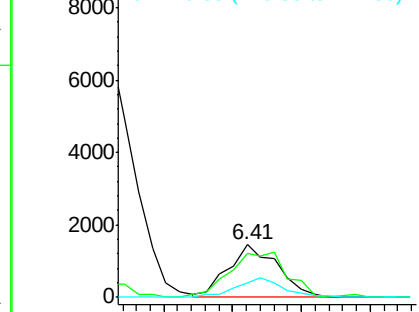
#38
Carbon Tetrachloride
Concen: 1.32 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.01 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 117 Resp: 3623
Ion Ratio Lower Upper
117 100
119 84.9 76.2 114.4
121 28.0 24.5 36.7

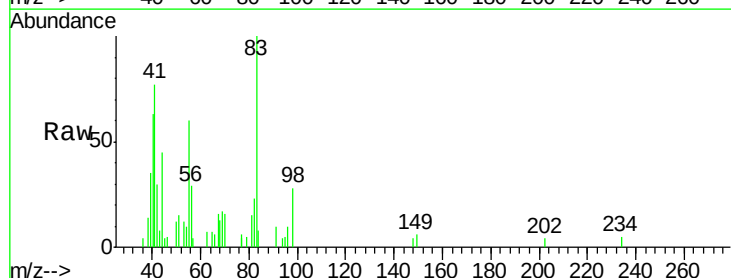


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

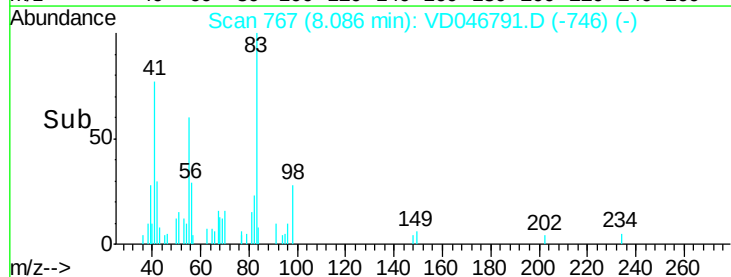
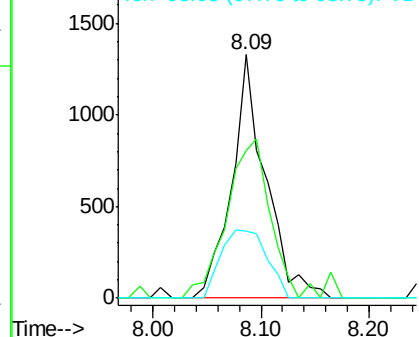


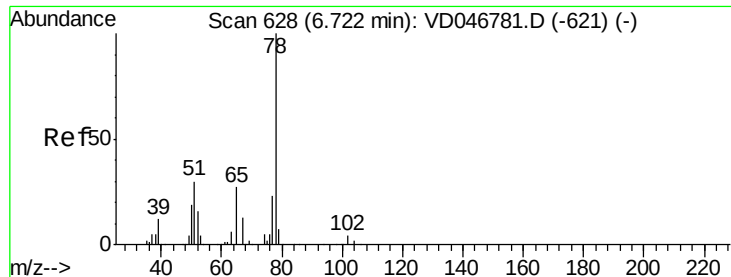
#39
Methylcyclohexane
Concen: 1.09 ug/l
RT: 8.09 min Scan# 767
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 83 Resp: 2912
Ion Ratio Lower Upper
83 100
55 60.4 71.1 106.7#
98 27.6 34.6 51.8#



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 1.29 ug/l

RT: 6.74 min Scan# 630

Delta R.T. 0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

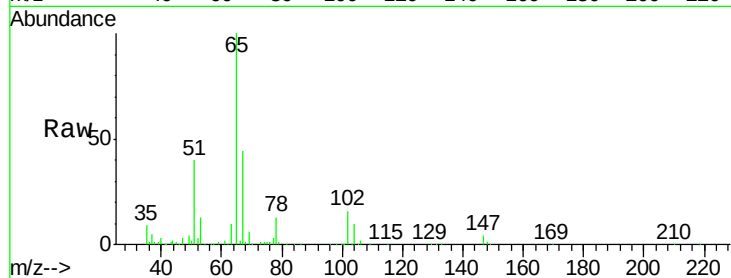
LOD-SOIL2015-01

Tgt Ion: 78 Resp: 8672

Ion Ratio Lower Upper

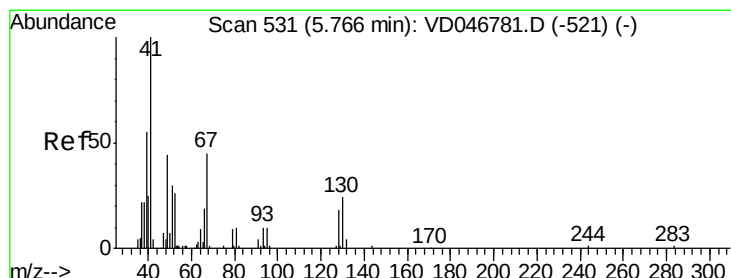
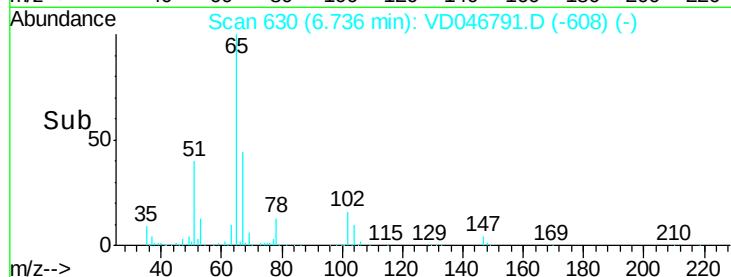
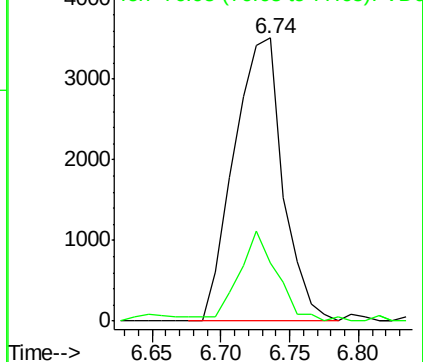
78 100

77 20.5 19.9 29.9



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#41

Methacrylonitrile

Concen: 1.15 ug/l

RT: 5.74 min Scan# 529

Delta R.T. -0.03 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Tgt Ion: 41 Resp: 545

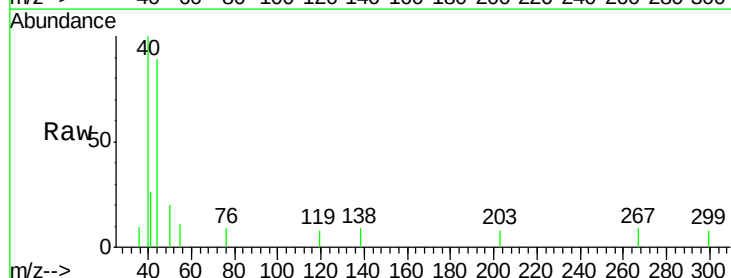
Ion Ratio Lower Upper

41 100

39 0.0 40.2 60.4#

67 0.0 32.0 48.0#

52 0.0 13.8 20.8#

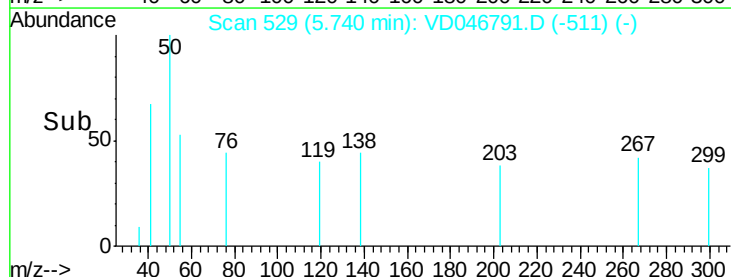
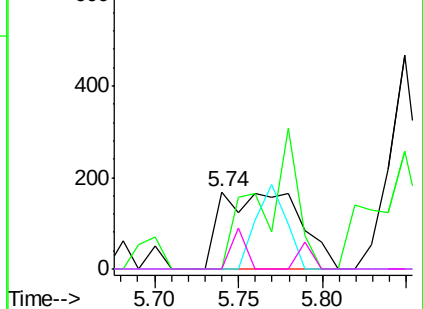


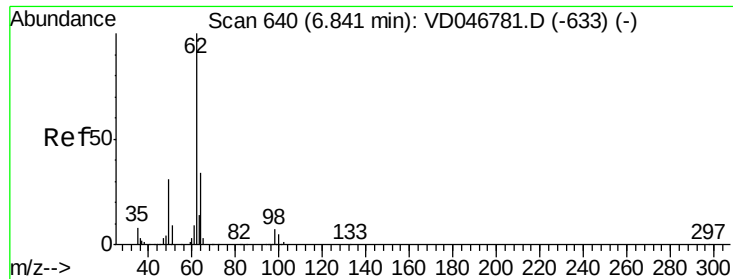
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#42

1,2-Dichloroethane

Concen: 1.34 ug/l

RT: 6.83 min Scan# 640

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

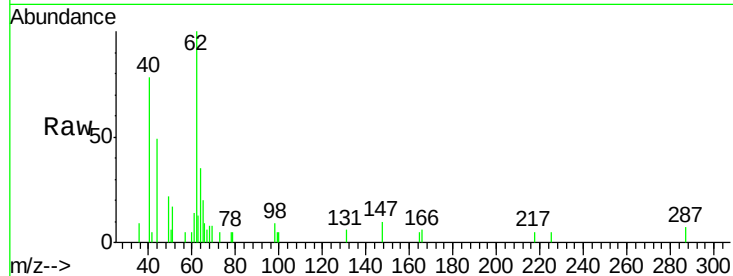
LOD-SOIL2015-01

Tgt Ion: 62 Resp: 2809

Ion Ratio Lower Upper

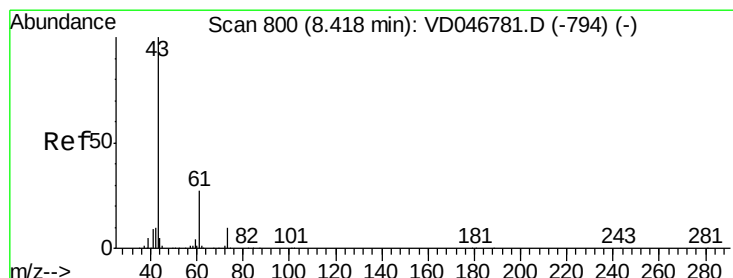
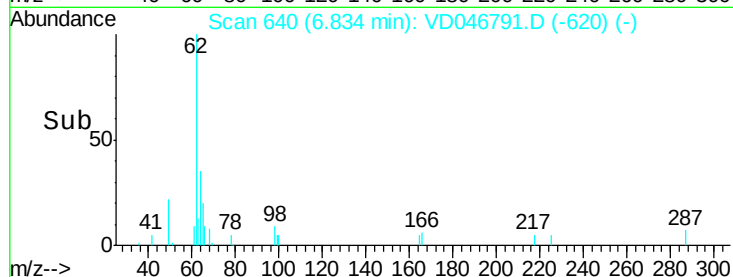
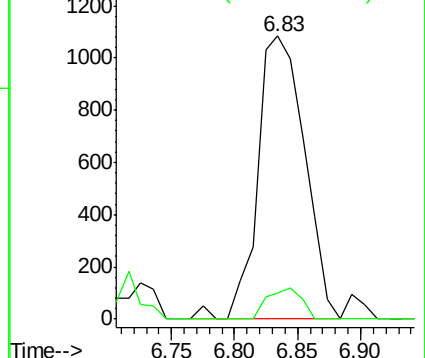
62 100

98 9.3 0.0 16.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#43

Isopropyl Acetate

Concen: 1.14 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

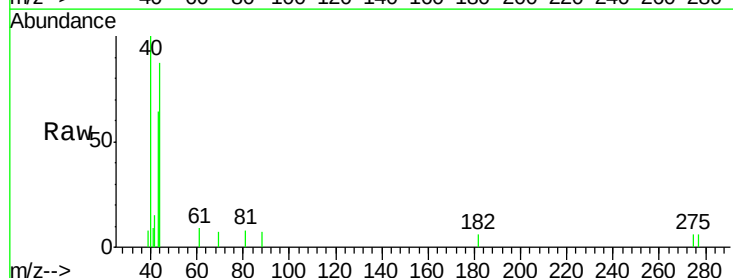
Tgt Ion: 43 Resp: 1278

Ion Ratio Lower Upper

43 100

61 13.5 19.5 29.3#

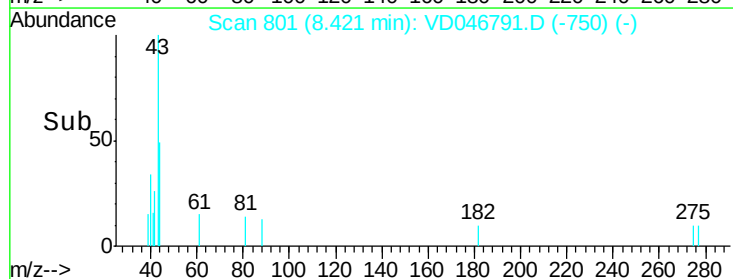
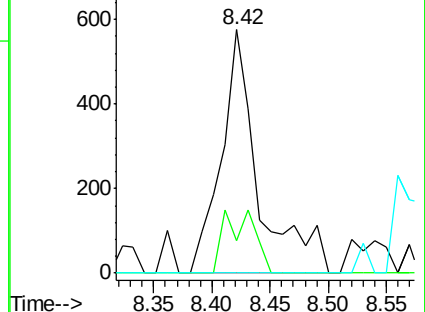
87 0.0 0.2 0.2#

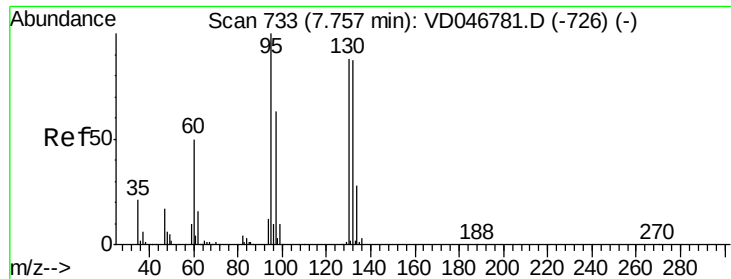


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#44

Trichloroethene

Concen: 1.37 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

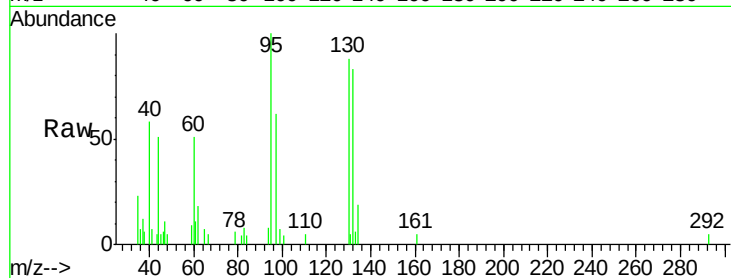
LOD-SOIL2015-01

Tgt Ion:130 Resp: 2308

Ion Ratio Lower Upper

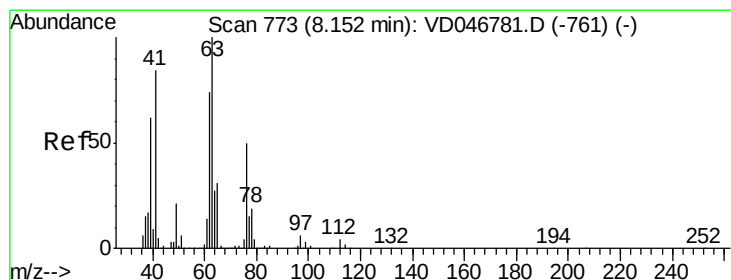
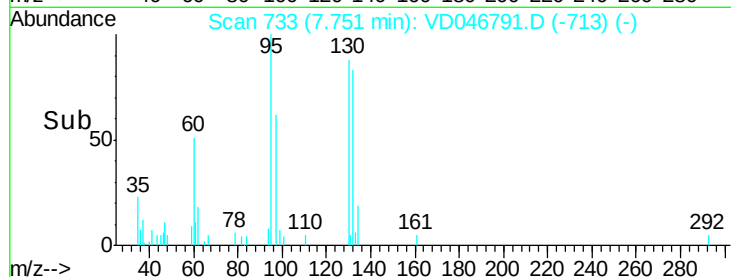
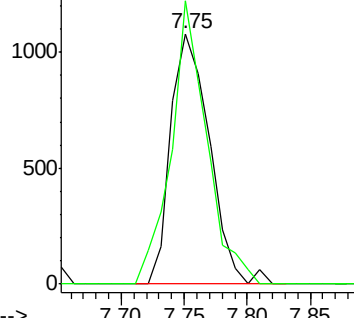
130 100

95 113.1 0.0 229.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 1.19 ug/l

RT: 8.16 min Scan# 774

Delta R.T. 0.00 min

Lab File: VD046791.D

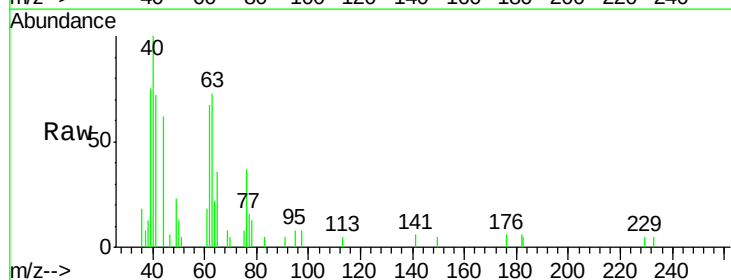
Acq: 18 Sep 2015 19:45

Tgt Ion: 63 Resp: 1994

Ion Ratio Lower Upper

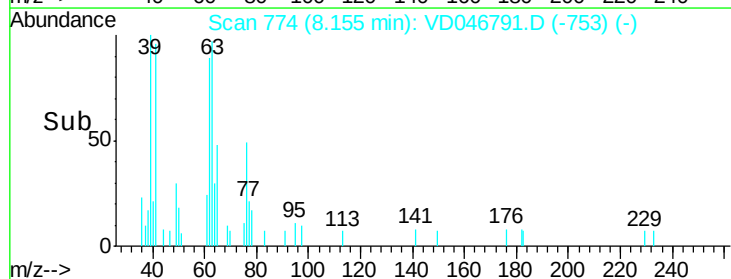
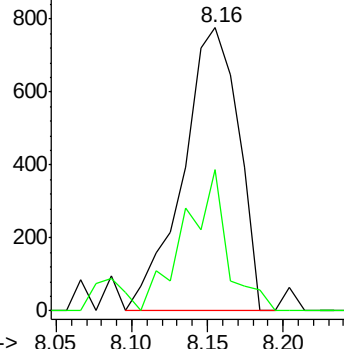
63 100

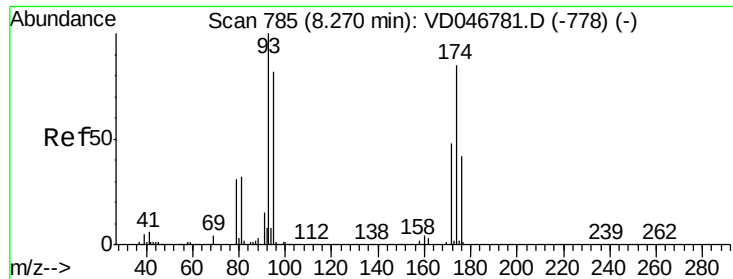
65 49.7 25.1 37.7#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

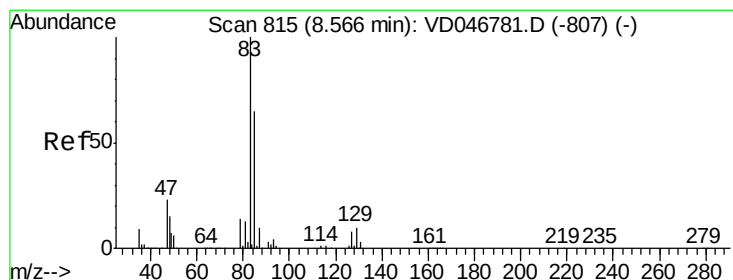
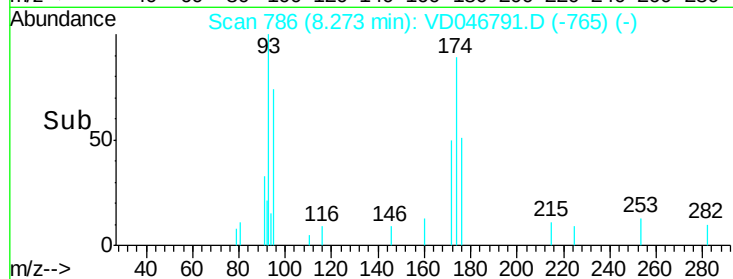
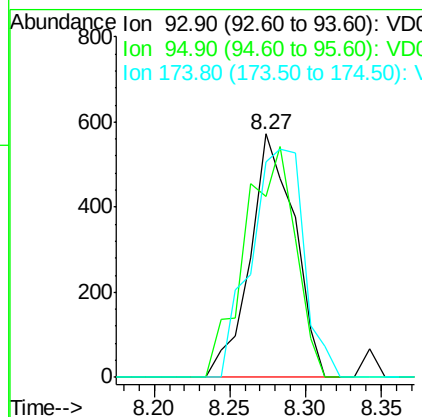
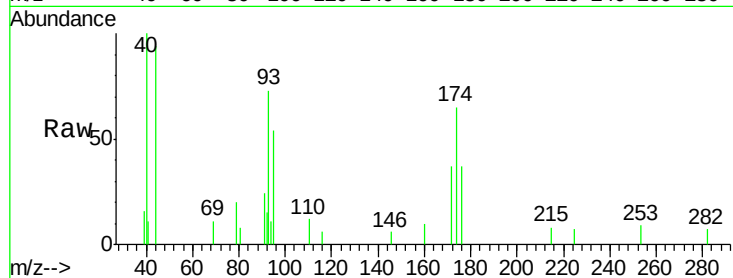




#46
Dibromomethane
Concen: 1.23 ug/l
RT: 8.27 min Scan# 786
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

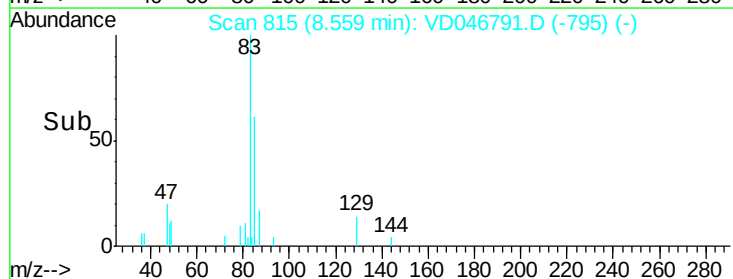
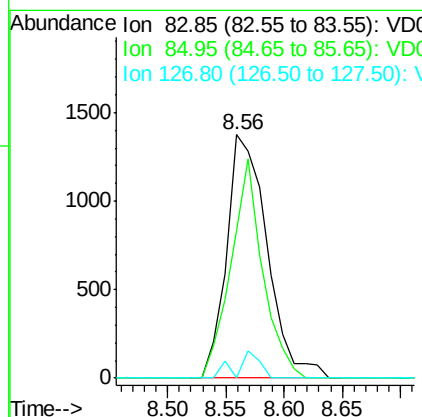
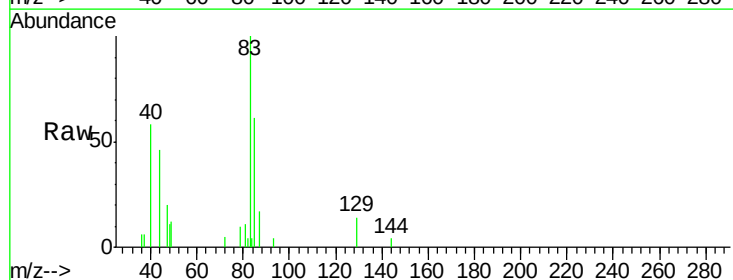
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

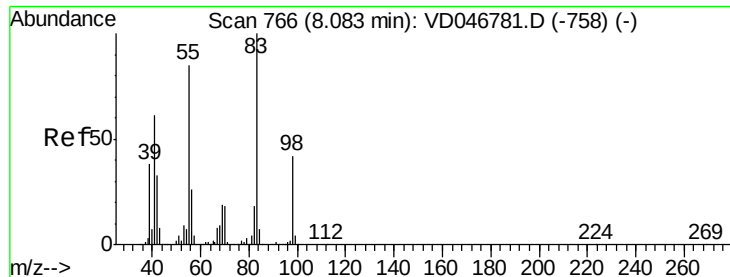
Tgt Ion: 93 Resp: 1164
Ion Ratio Lower Upper
93 100
95 74.1 70.2 105.2
174 88.6 79.0 118.4



#47
Bromodichloromethane
Concen: 1.33 ug/l
RT: 8.56 min Scan# 815
Delta R.T. -0.01 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 83 Resp: 3313
Ion Ratio Lower Upper
83 100
85 60.6 52.6 78.8
127 0.0 5.7 8.5#

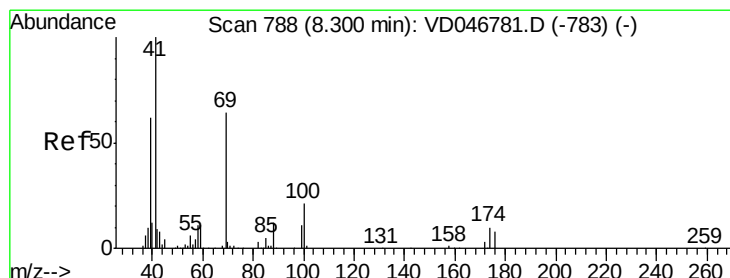
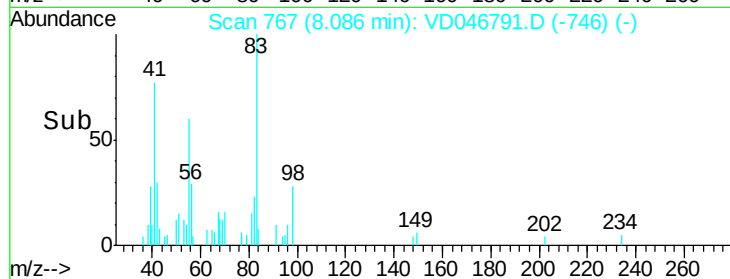
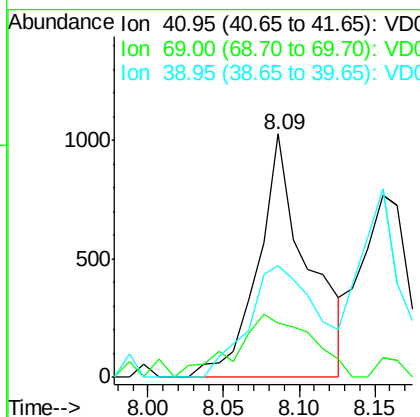
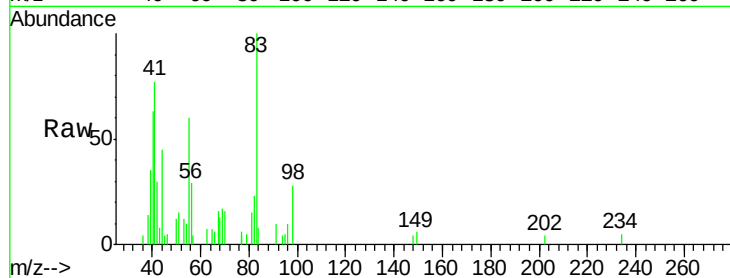




#48
Methyl methacrylate
Concen: 1.36 ug/l
RT: 8.09 min Scan# 767
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

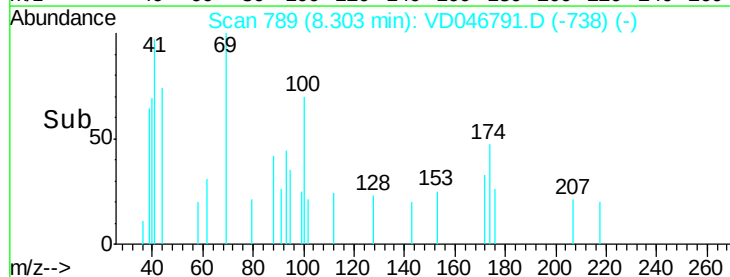
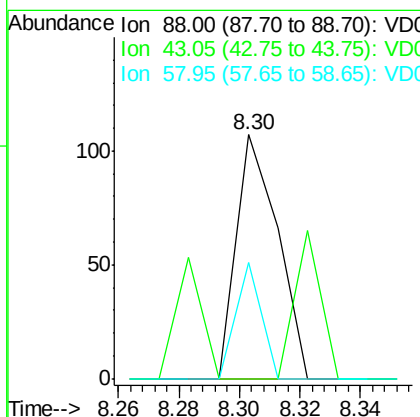
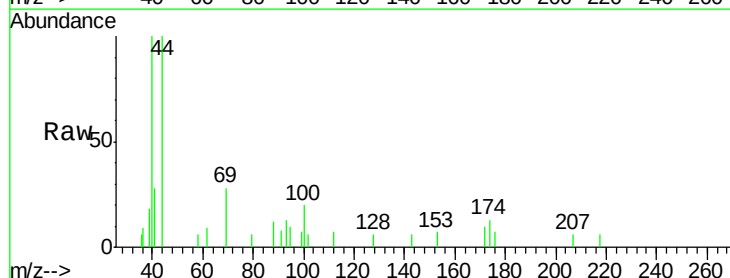
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

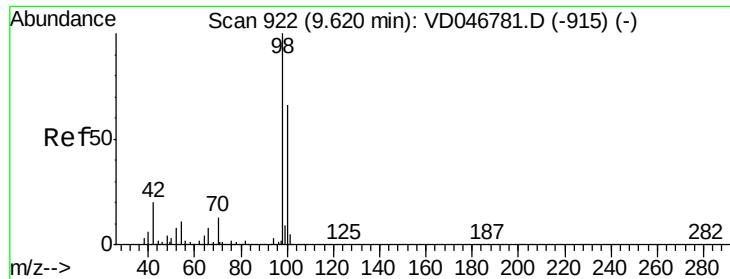
Tgt Ion: 41 Resp: 2333
Ion Ratio Lower Upper
41 100
69 22.1 25.3 37.9#
39 46.0 47.4 71.0#



#49
1,4-Dioxane
Concen: 16.13 ug/l
RT: 8.30 min Scan# 789
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 0.0 50.0 75.0#
58 47.7 48.3 72.5#

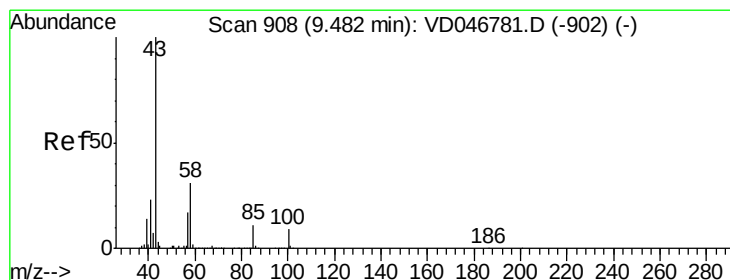
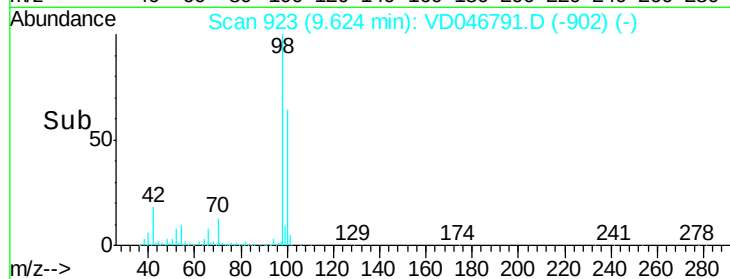
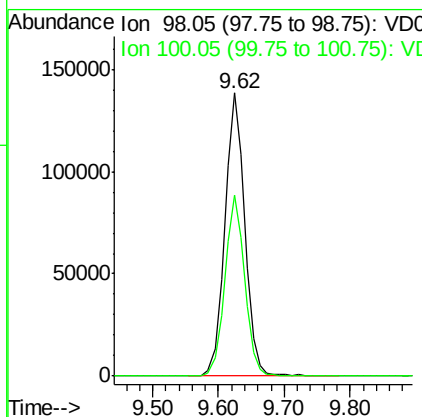
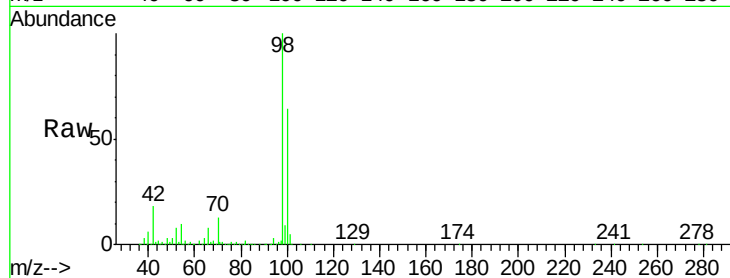




#50
Toluene-d8
Concen: 16.13 ug/l
RT: 9.62 min Scan# 923
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

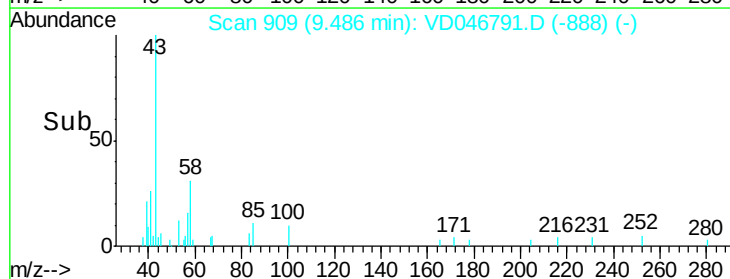
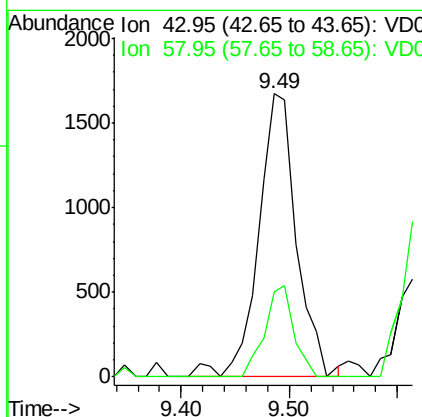
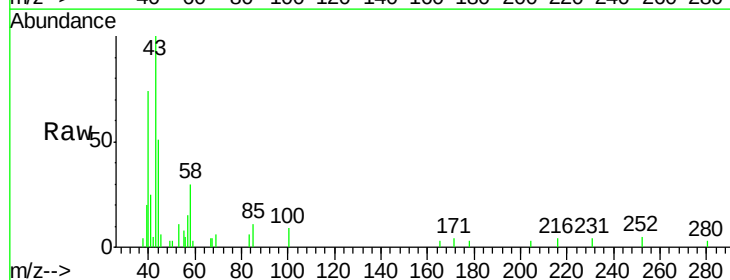
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

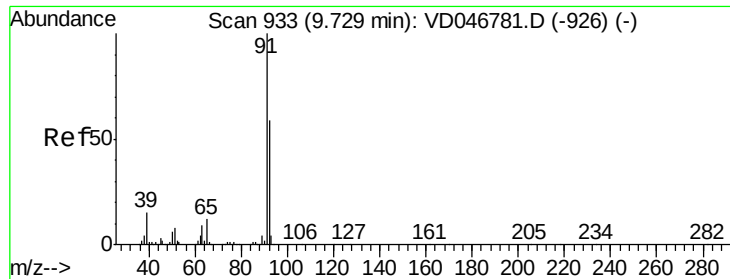
Tgt Ion: 98 Resp: 293543
Ion Ratio Lower Upper
98 100
100 63.9 49.9 74.9



#51
4-Methyl-2-Pentanone
Concen: 5.06 ug/l
RT: 9.49 min Scan# 909
Delta R.T. 0.00 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion: 43 Resp: 4086
Ion Ratio Lower Upper
43 100
58 29.9 22.2 33.2





#52

Toluene

Concen: 1.44 ug/l

RT: 9.73 min Scan# 934

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

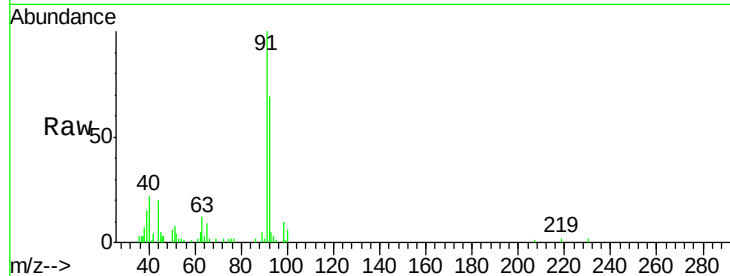
LOD-SOIL2015-01

Tgt Ion: 92 Resp: 5969

Ion Ratio Lower Upper

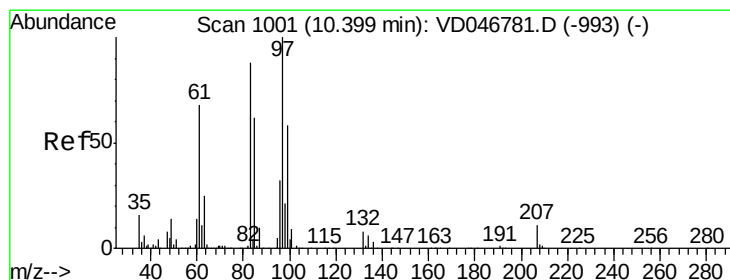
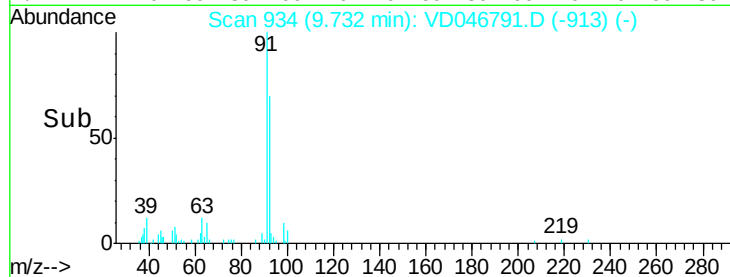
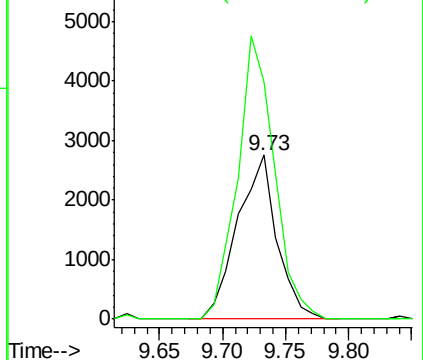
92 100

91 144.7 139.4 209.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.34 ug/l

RT: 10.40 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Tgt Ion: 97 Resp: 1441

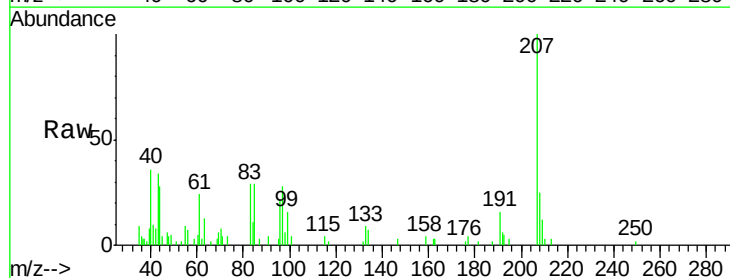
Ion Ratio Lower Upper

97 100

83 103.5 75.3 112.9

85 103.8 50.9 76.3#

99 55.0 46.9 70.3

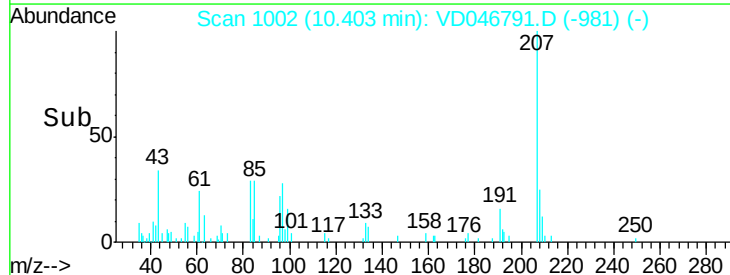
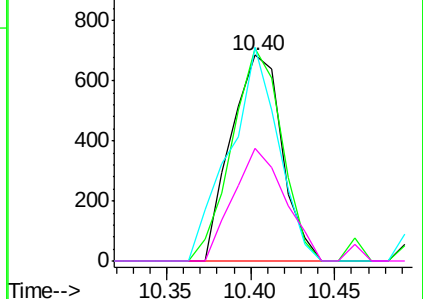


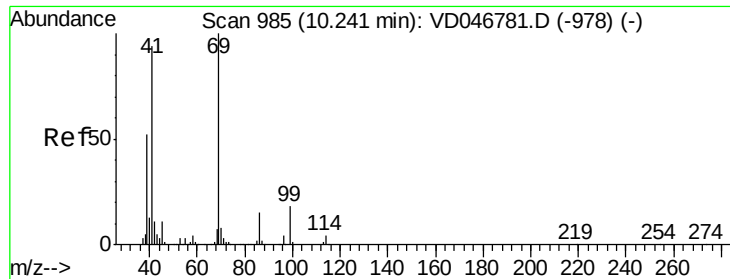
Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 4.28 ug/l

RT: 10.38 min Scan# 1000

Delta R.T. 0.14 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

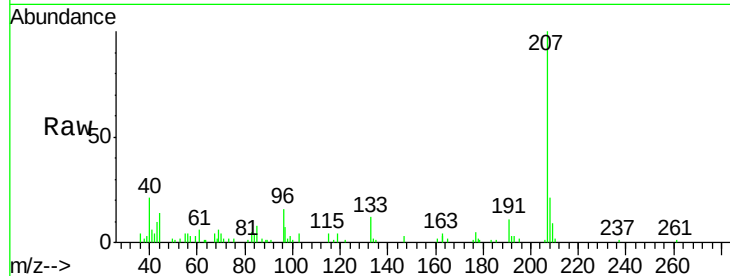
Tgt Ion: 69 Resp: 490

Ion Ratio Lower Upper

69 100

41 103.9 75.4 113.0

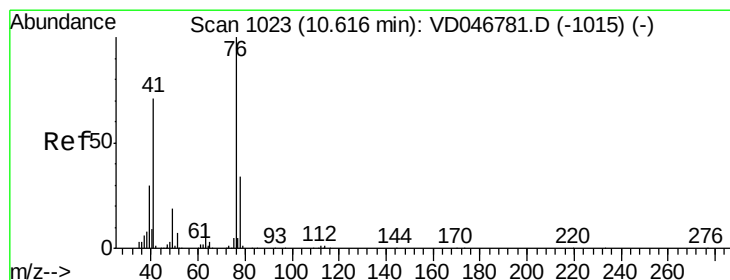
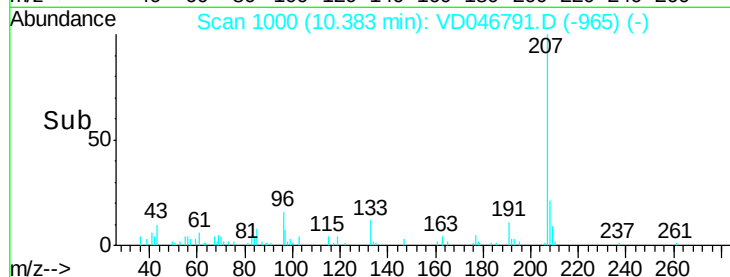
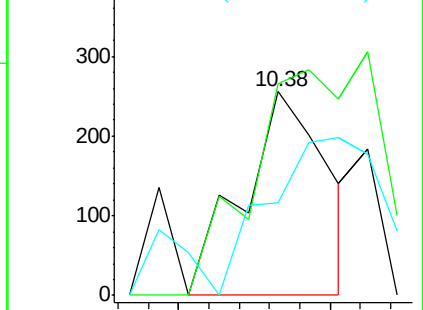
39 45.3 41.0 61.4



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: 1.34 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VD046791.D

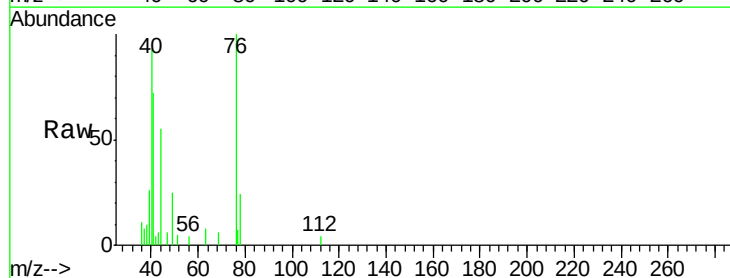
Acq: 18 Sep 2015 19:45

Tgt Ion: 76 Resp: 2683

Ion Ratio Lower Upper

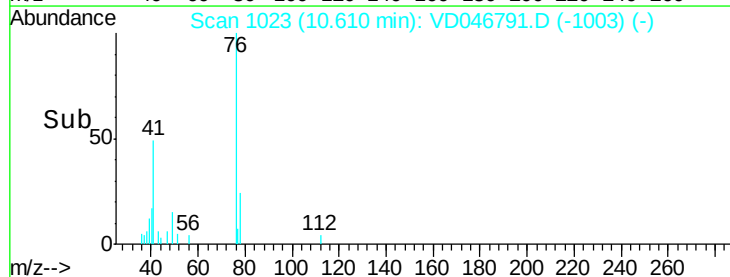
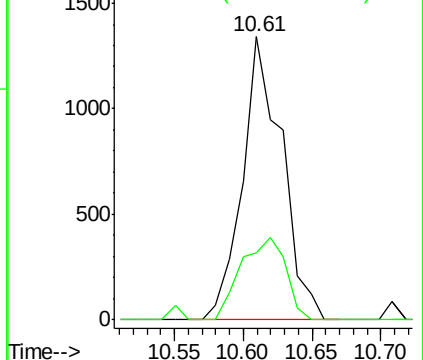
76 100

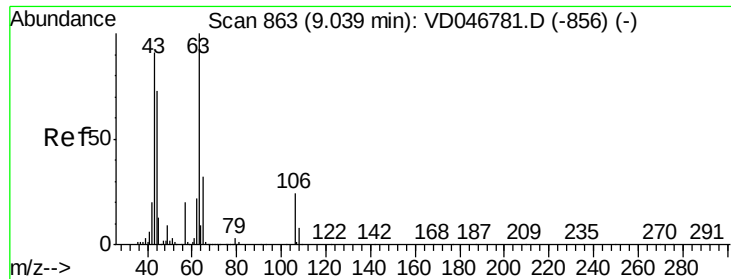
78 23.8 26.6 39.8#



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: 9.80 ug/l

RT: 9.04 min Scan# 864

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

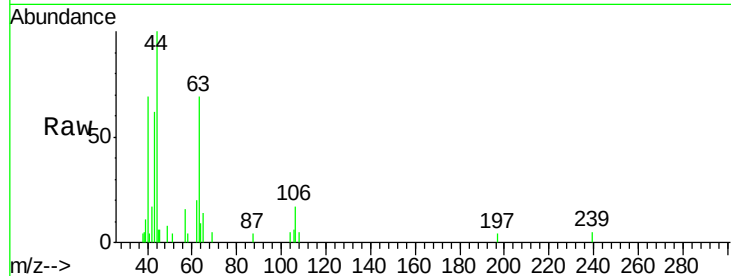
LOD-SOIL2015-01

Tgt Ion: 63 Resp: 1892

Ion Ratio Lower Upper

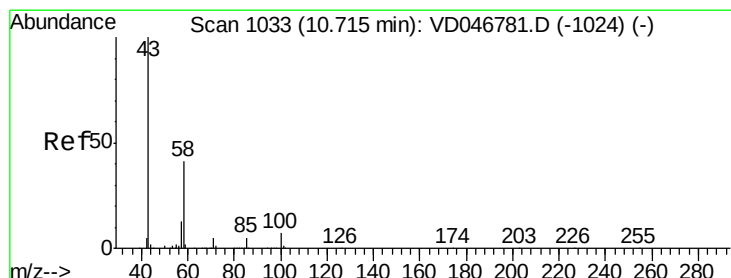
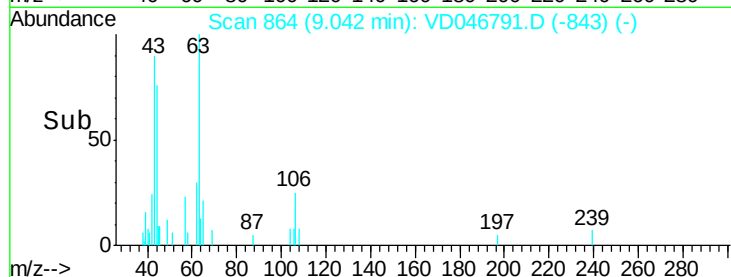
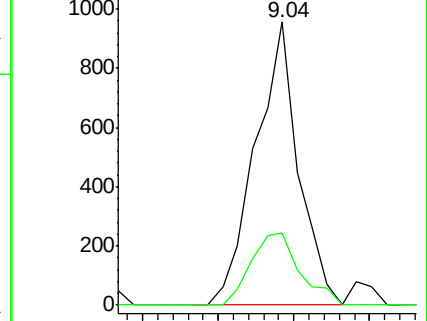
63 100

106 25.4 17.8 26.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC



#59

2-Hexanone

Concen: 4.40 ug/l

RT: 10.72 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VD046791.D

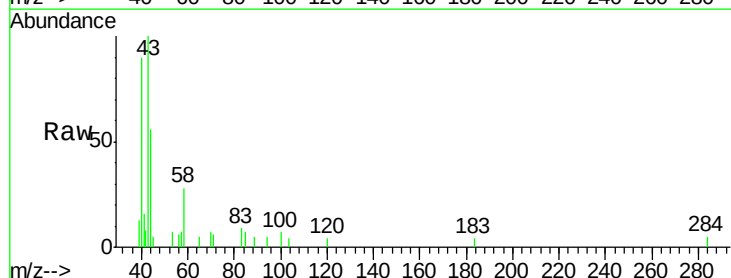
Acq: 18 Sep 2015 19:45

Tgt Ion: 43 Resp: 2566

Ion Ratio Lower Upper

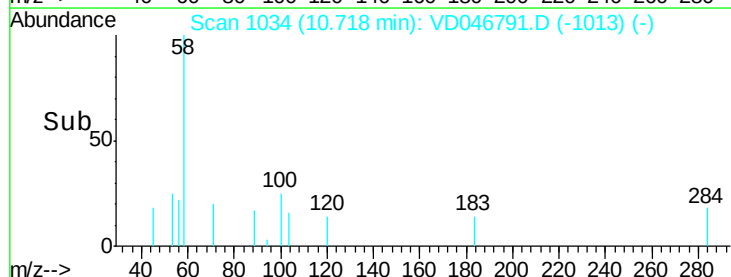
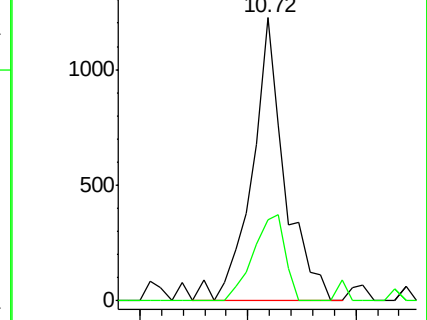
43 100

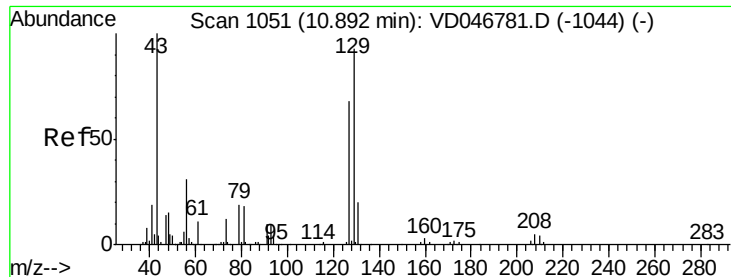
58 28.5 18.6 55.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#60

Dibromochloromethane

Concen: 1.31 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

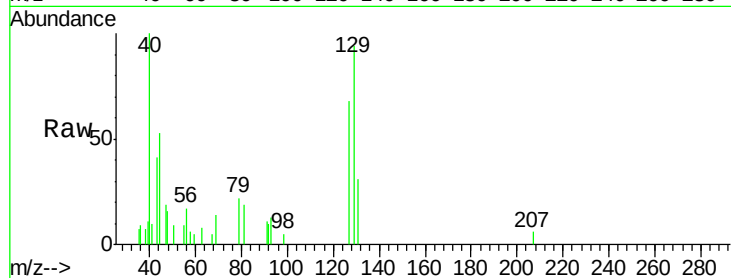
LOD-SOIL2015-01

Tgt Ion:129 Resp: 1931

Ion Ratio Lower Upper

129 100

127 72.8 38.2 114.6



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.89

800

600

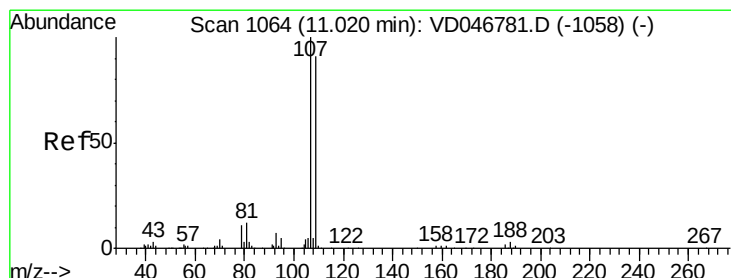
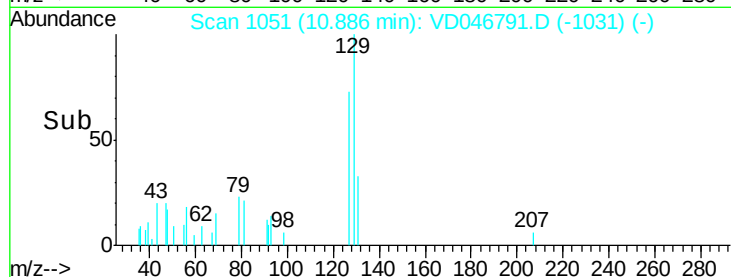
400

200

0

10.80 10.85 10.90 10.95

Time-->



#61

1,2-Dibromoethane

Concen: 1.08 ug/l

RT: 11.02 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VD046791.D

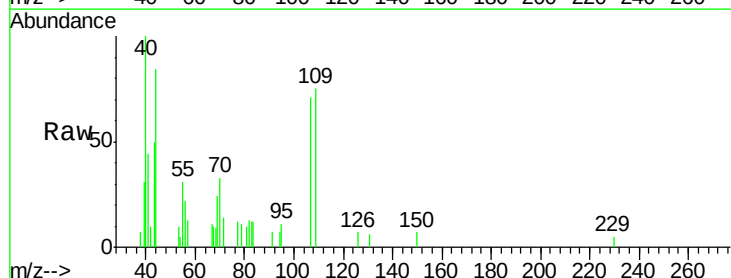
Acq: 18 Sep 2015 19:45

Tgt Ion:107 Resp: 1147

Ion Ratio Lower Upper

107 100

109 105.1 71.4 107.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.02

800

600

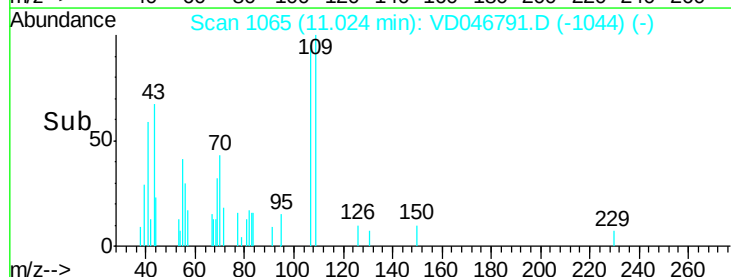
400

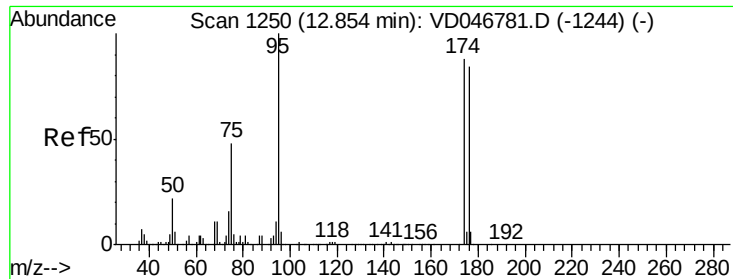
200

0

10.95 11.00 11.05

Time-->





#62

4-Bromofluorobenzene

Concen: 1.08 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

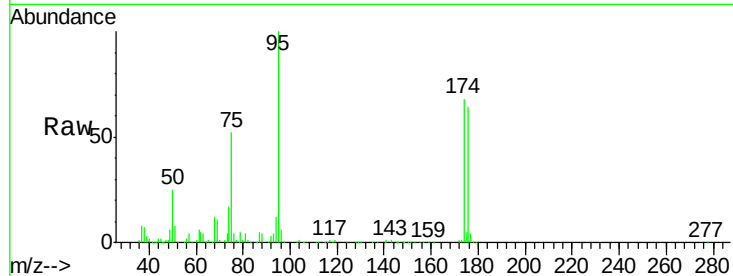
Tgt Ion: 95 Resp: 112849

Ion Ratio Lower Upper

95 100

174 67.9 0.0 149.8

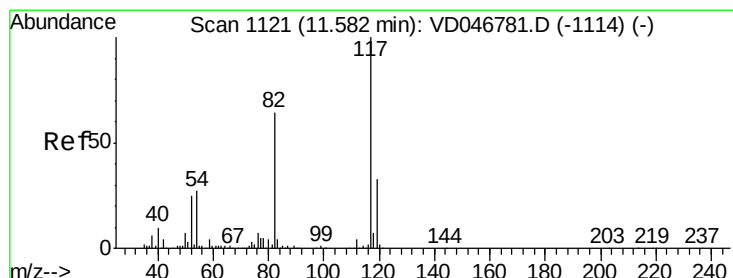
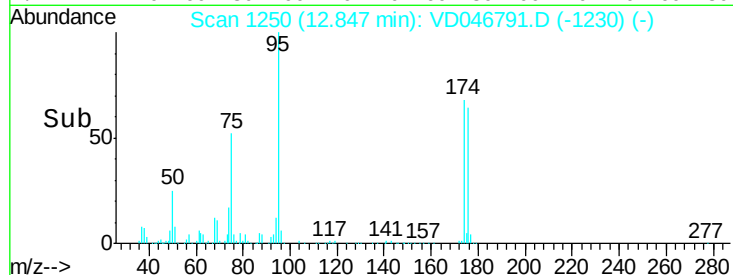
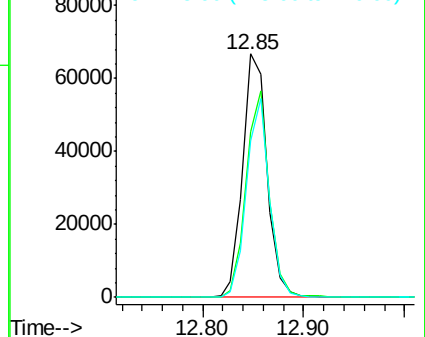
176 64.5 0.0 143.4



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: VD046791.D

Acq: 18 Sep 2015 19:45

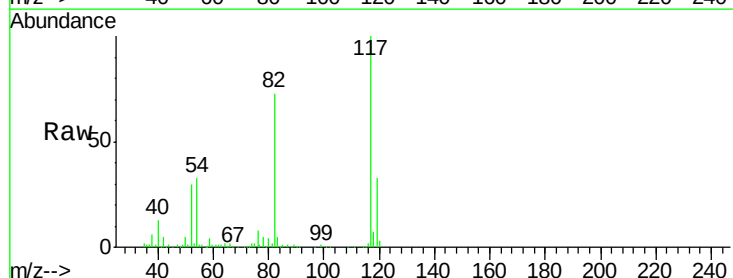
Tgt Ion: 117 Resp: 216368

Ion Ratio Lower Upper

117 100

82 73.2 50.6 75.8

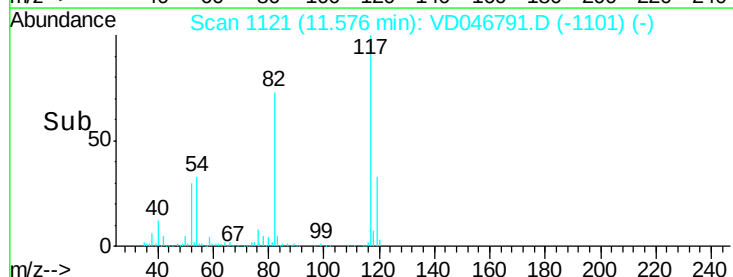
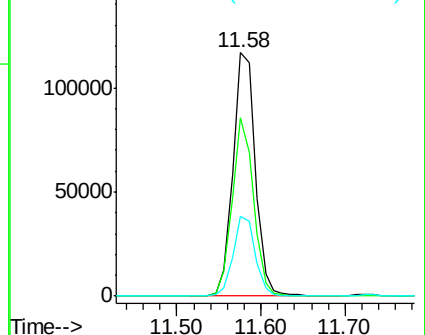
119 32.8 25.8 38.8

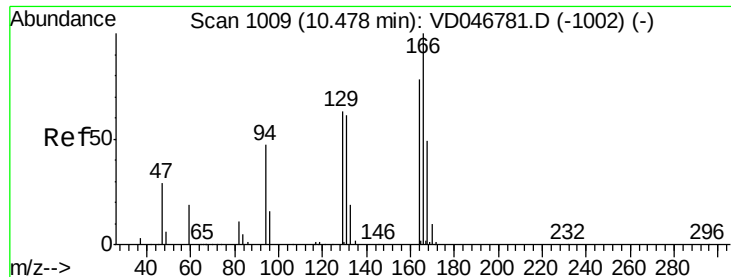


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#64

Tetrachloroethene

Concen: 1.43 ug/l

RT: 10.47 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion:164 Resp: 2503

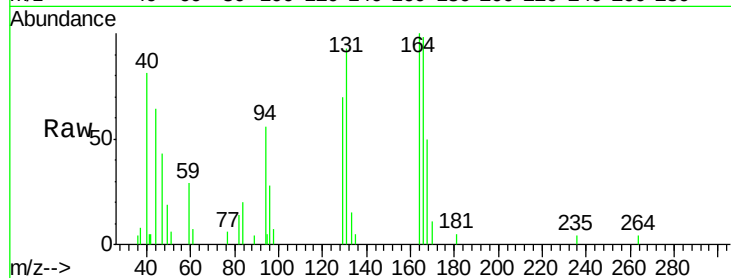
Ion Ratio Lower Upper

164 100

166 98.0 106.8 160.2#

129 70.2 70.6 106.0#

131 92.9 66.6 100.0

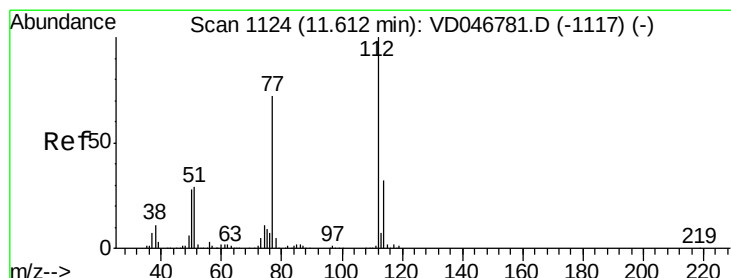
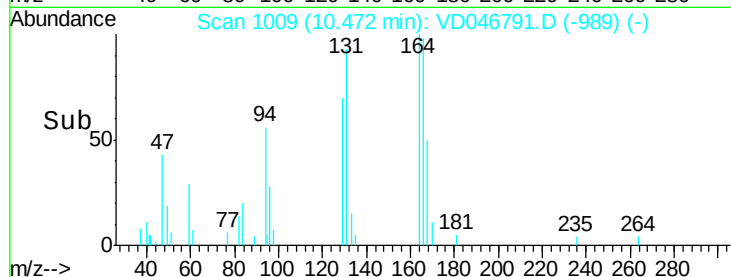
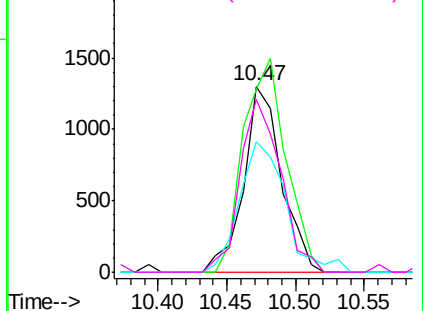


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 1.31 ug/l

RT: 11.62 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VD046791.D

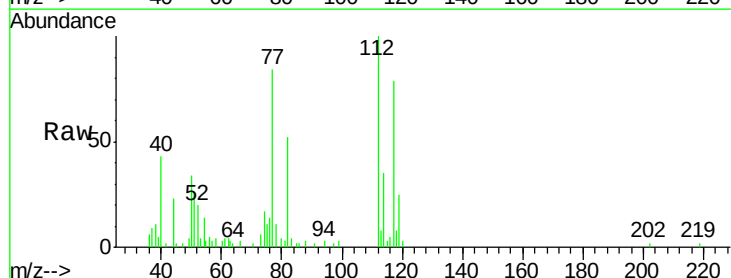
Acq: 18 Sep 2015 19:45

Tgt Ion:112 Resp: 5961

Ion Ratio Lower Upper

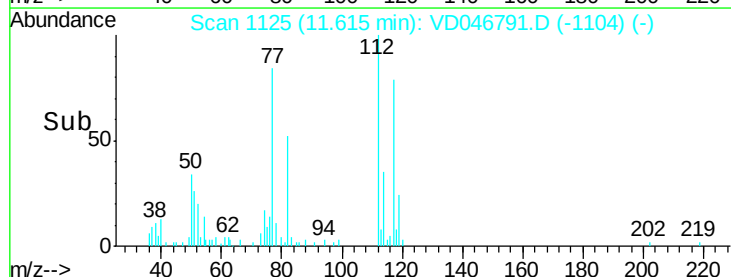
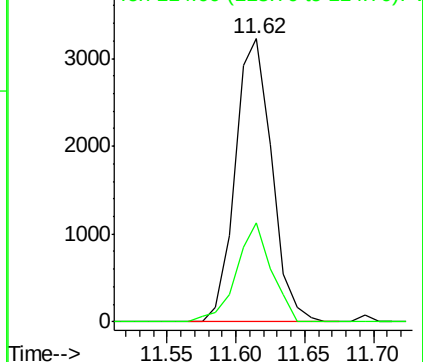
112 100

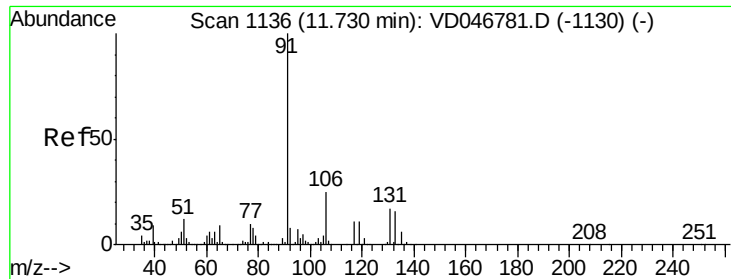
114 35.0 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 1.47 ug/l

RT: 11.72 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

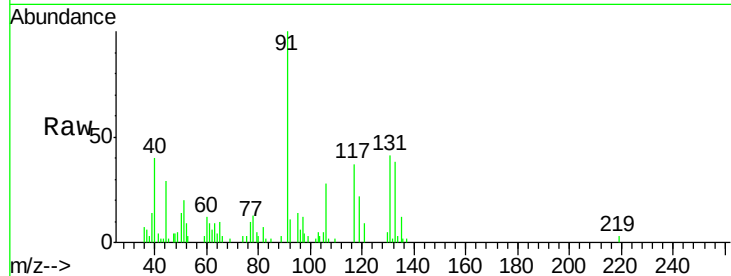
Tgt Ion:131 Resp: 2456

Ion Ratio Lower Upper

131 100

133 91.7 48.4 145.0

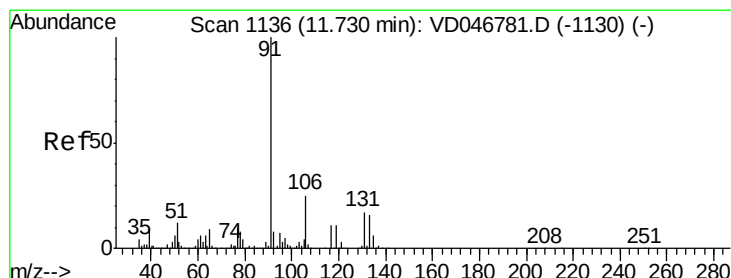
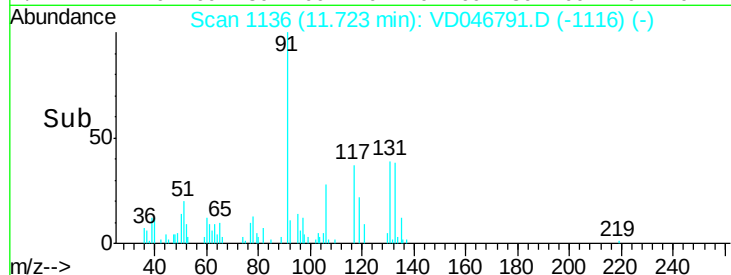
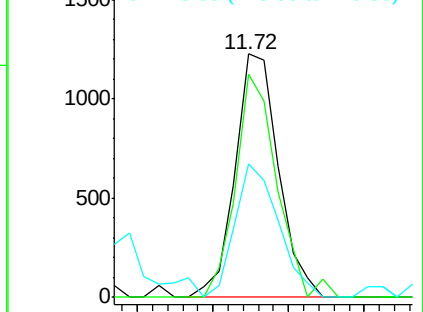
119 54.8 31.5 94.5



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V



#67

Ethyl Benzene

Concen: 1.06 ug/l

RT: 11.73 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VD046791.D

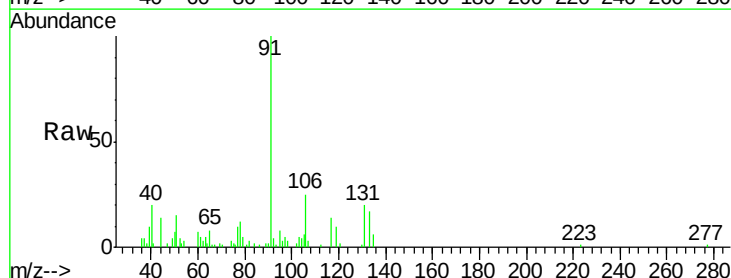
Acq: 18 Sep 2015 19:45

Tgt Ion: 91 Resp: 9665

Ion Ratio Lower Upper

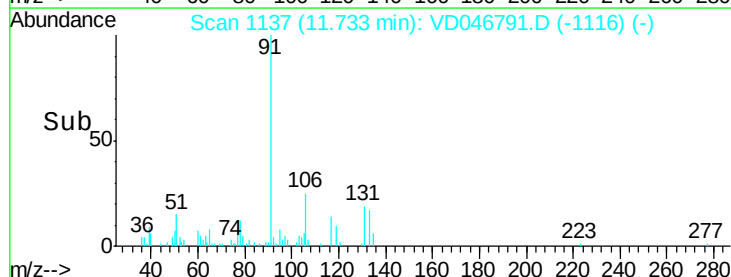
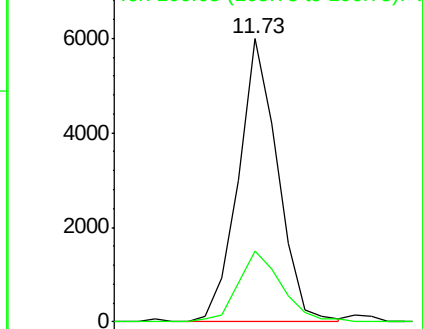
91 100

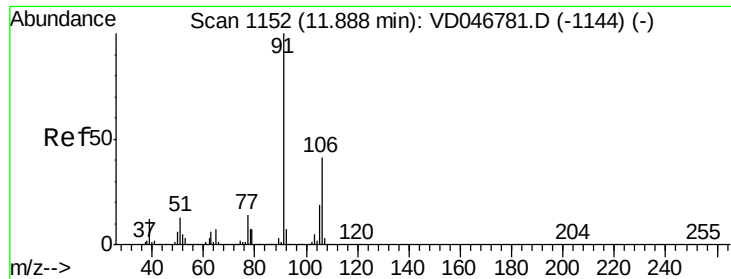
106 25.0 20.2 30.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

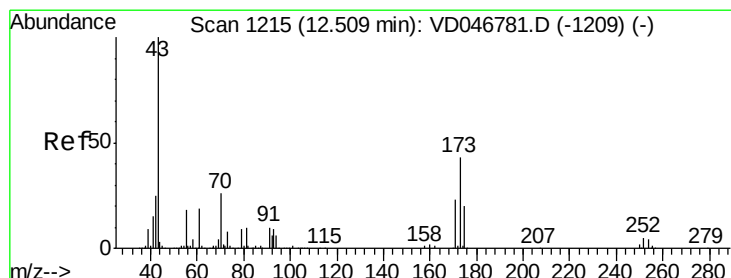
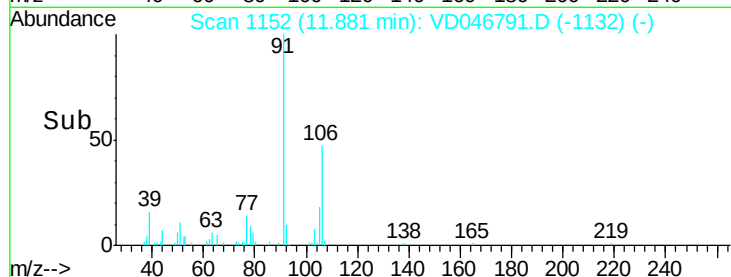
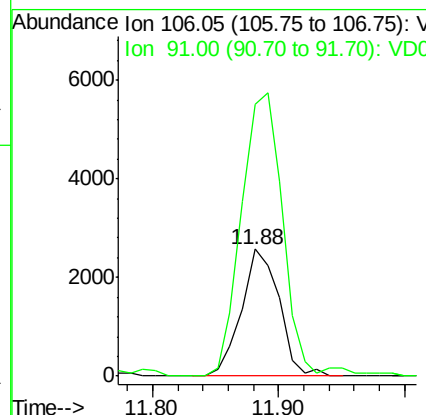
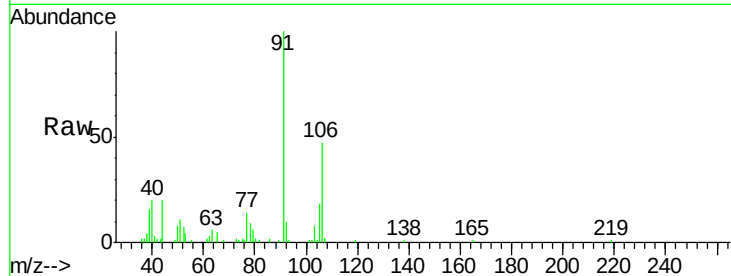




#68
m/p-Xylenes
Concen: 1.86 ug/l
RT: 11.88 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

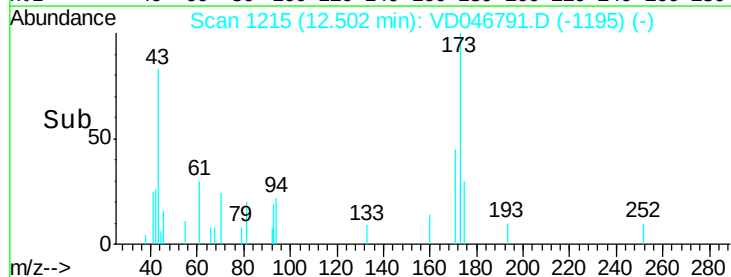
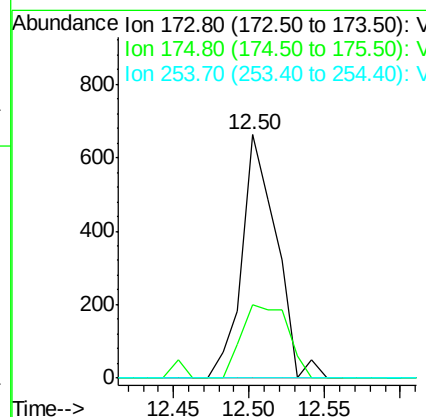
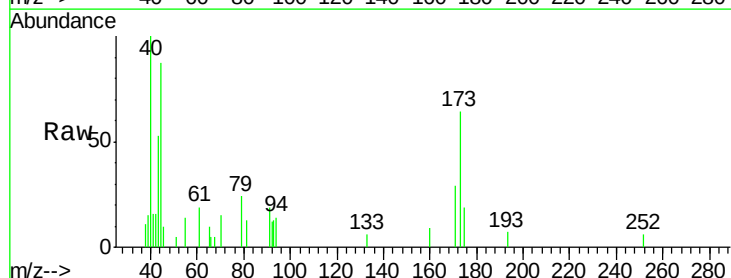
Instrument :
MSVOA_D
ClientSampleId :
LOD-SOIL2015-01

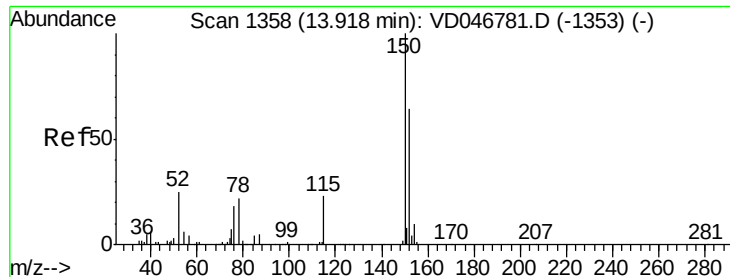
Tgt Ion:106 Resp: 5361
Ion Ratio Lower Upper
106 100
91 213.7 187.9 281.9



#71
Bromoform
Concen: 1.18 ug/l
RT: 12.50 min Scan# 1215
Delta R.T. -0.01 min
Lab File: VD046791.D
Acq: 18 Sep 2015 19:45

Tgt Ion:173 Resp: 1047
Ion Ratio Lower Upper
173 100
175 30.0 23.1 69.3
254 0.0 8.7 13.1#

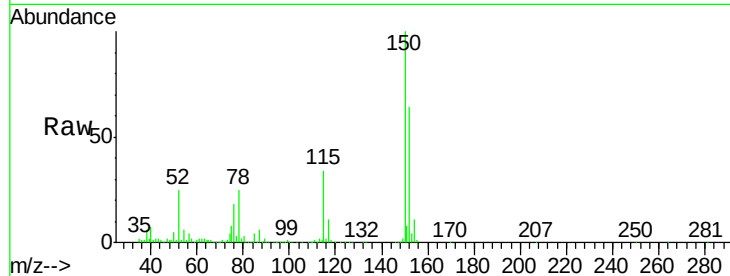




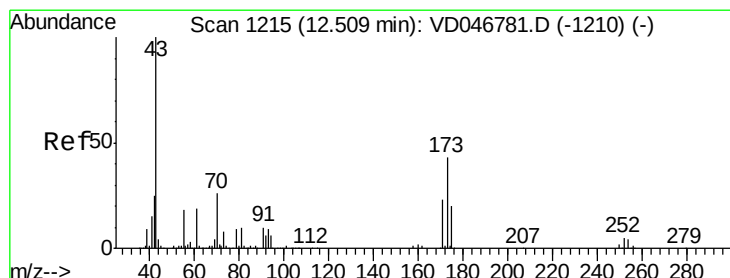
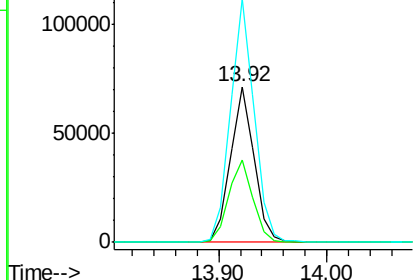
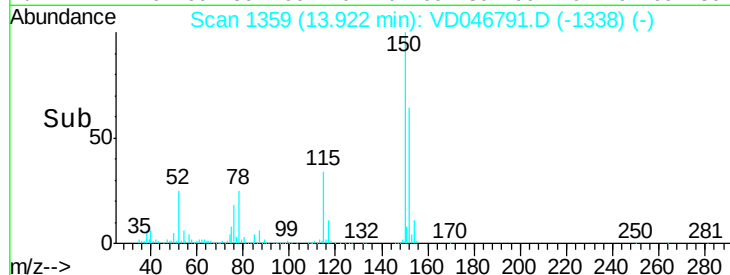
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.92 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion:152 Resp: 109372
 Ion Ratio Lower Upper
 152 100
 115 53.3 26.2 78.6
 150 156.8 0.0 311.8

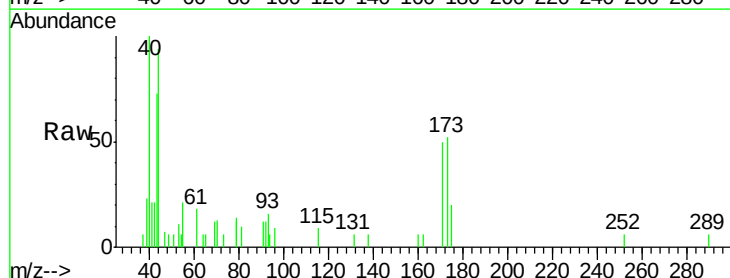


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

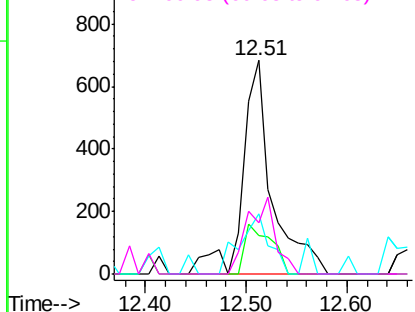
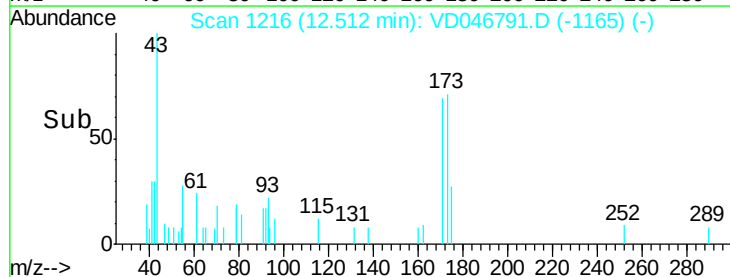


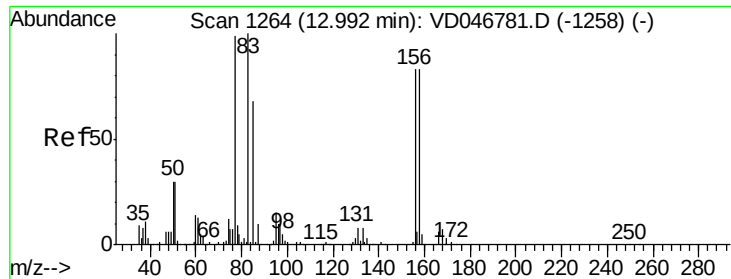
#74
 N-ethyl acetate
 Concen: 5.36 ug/l
 RT: 12.51 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion: 43 Resp: 1393
 Ion Ratio Lower Upper
 43 100
 70 18.3 22.1 33.1#
 55 28.4 14.5 21.7#
 61 24.3 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: 1.31 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

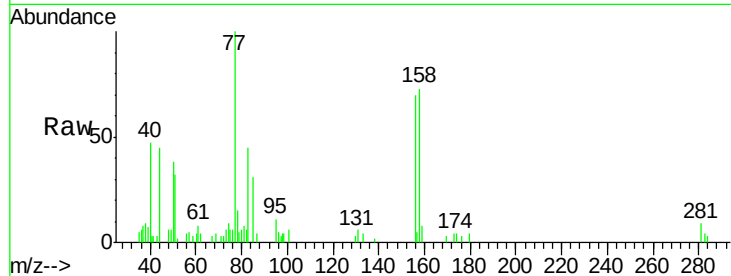
Tgt Ion: 83 Resp: 1630

Ion Ratio Lower Upper

83 100

131 14.2 3.9 11.7#

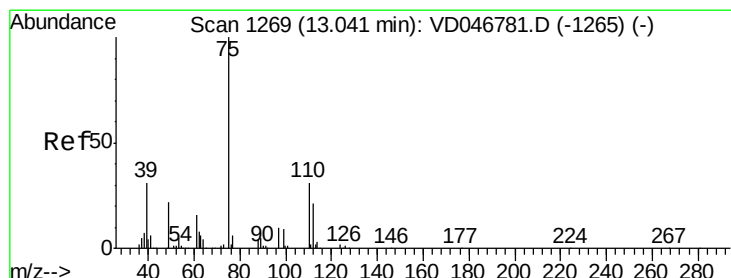
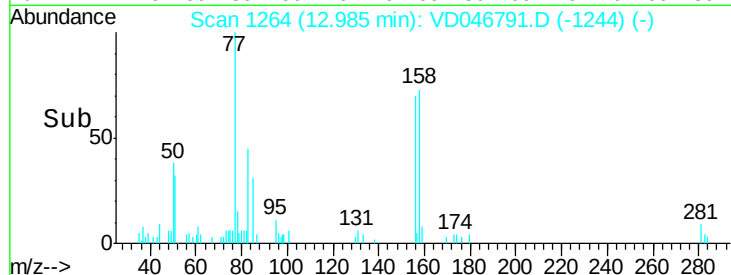
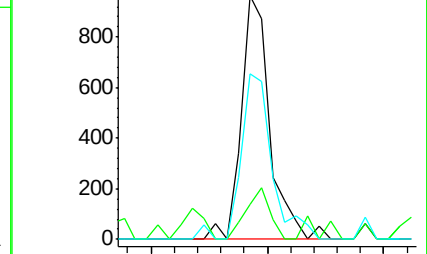
85 68.2 30.5 91.5



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: 1.30 ug/l

RT: 13.04 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD046791.D

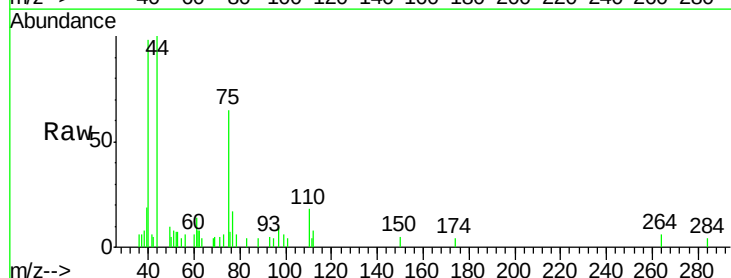
Acq: 18 Sep 2015 19:45

Tgt Ion: 75 Resp: 1736

Ion Ratio Lower Upper

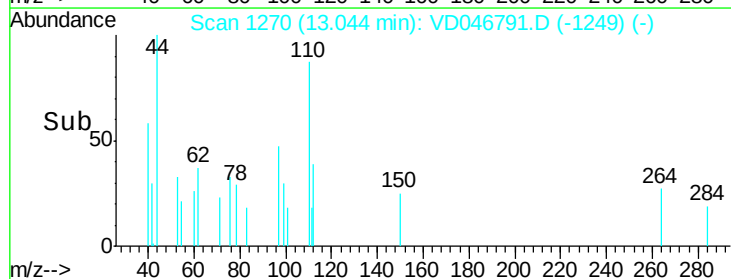
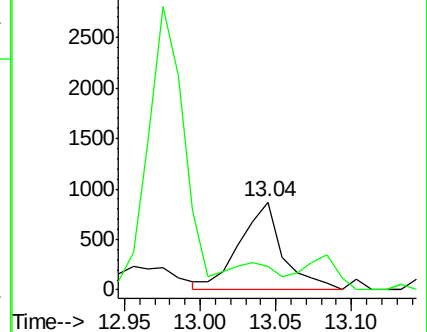
75 100

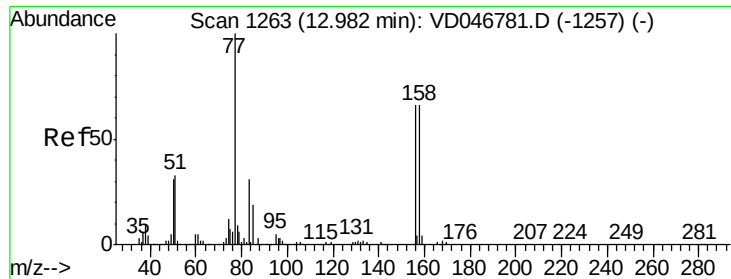
77 26.4 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 1.33 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

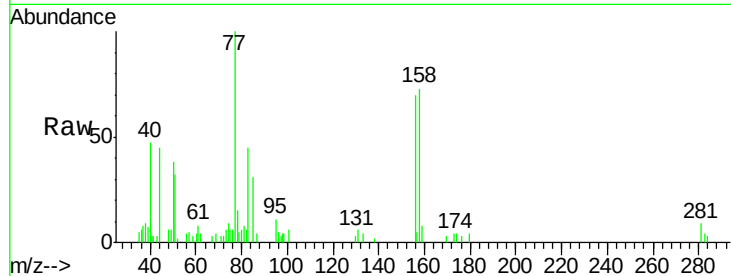
Tgt Ion:156 Resp: 2588

Ion Ratio Lower Upper

156 100

77 142.1 70.3 210.8

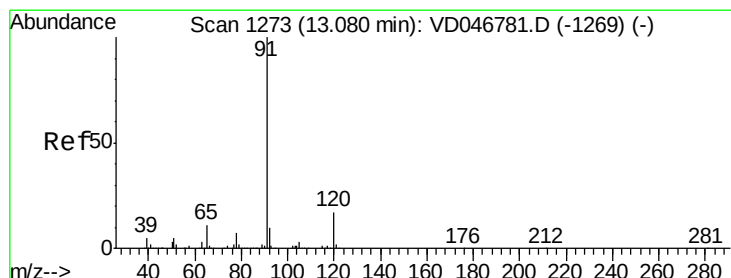
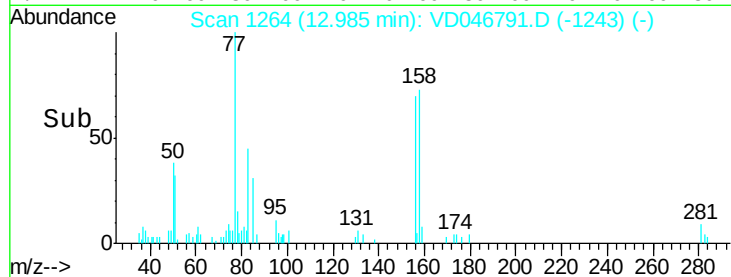
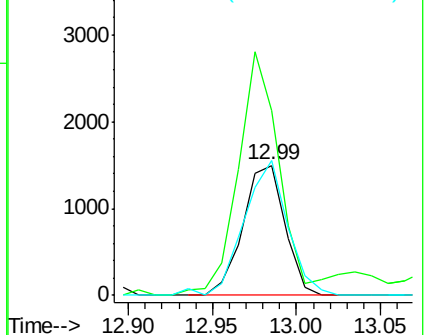
158 104.1 49.0 147.0



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: 1.06 ug/l

RT: 13.08 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VD046791.D

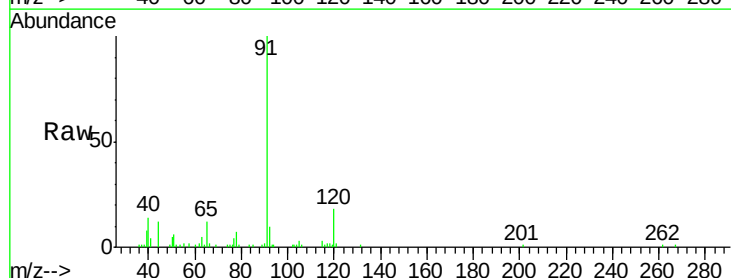
Acq: 18 Sep 2015 19:45

Tgt Ion: 91 Resp: 11517

Ion Ratio Lower Upper

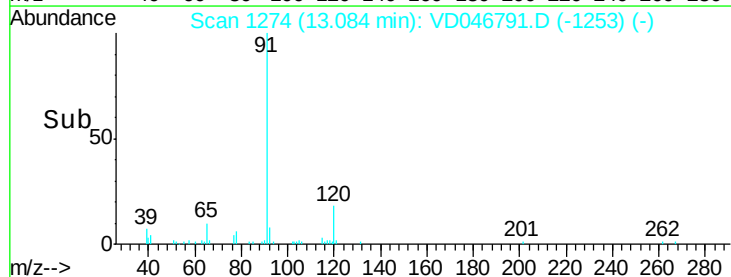
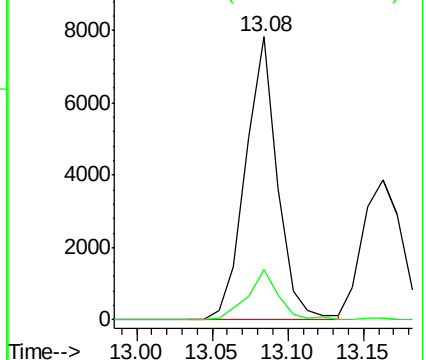
91 100

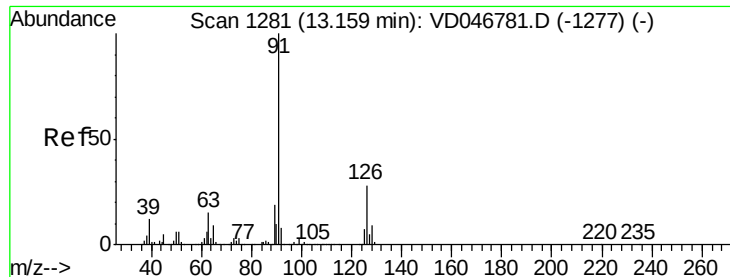
120 17.6 9.3 27.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 1.15 ug/l

RT: 13.16 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

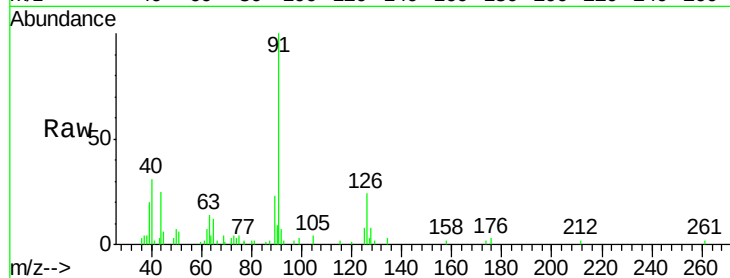
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 6937

Ion Ratio Lower Upper

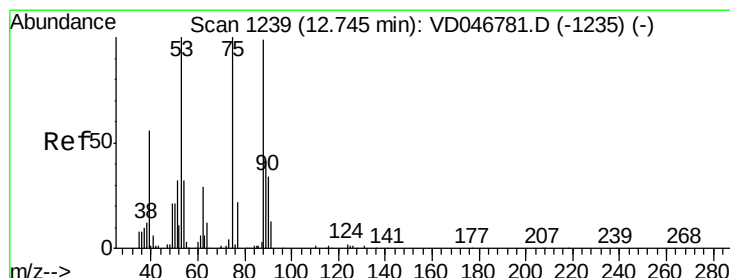
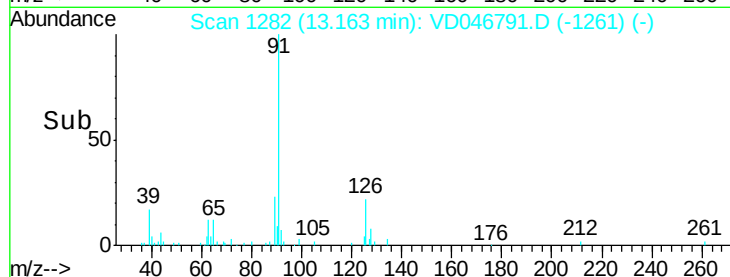
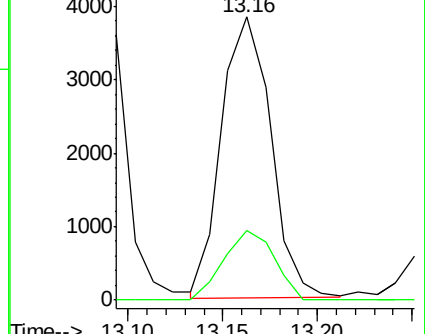
91 100

126 24.4 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 147.99 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. 0.10 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

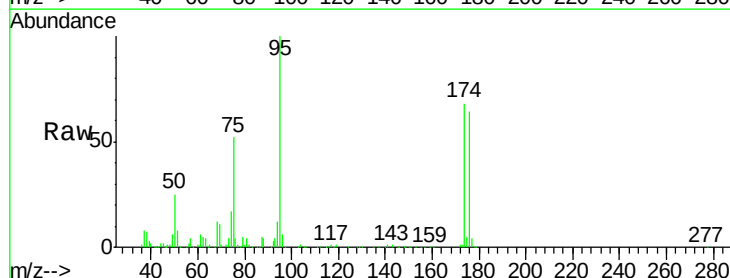
Tgt Ion: 75 Resp: 57135

Ion Ratio Lower Upper

75 100

53 0.0 82.3 123.5#

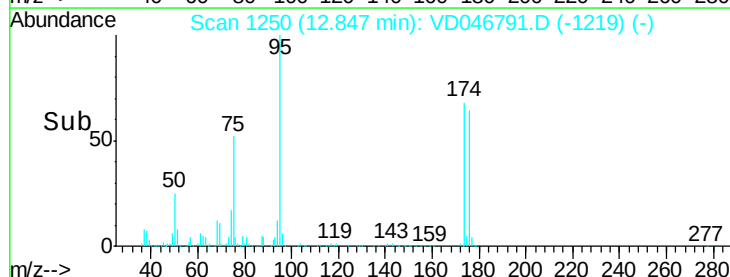
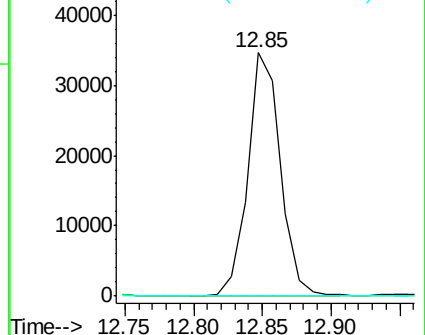
89 0.0 36.6 54.8#

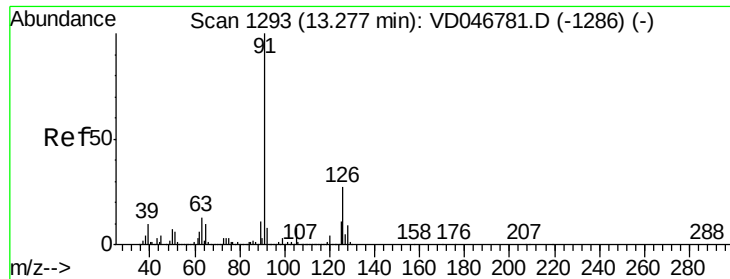


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.14 ug/l

RT: 13.28 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

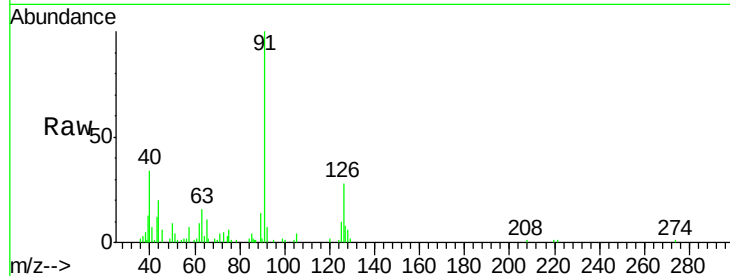
LOD-SOIL2015-01

Tgt Ion: 91 Resp: 8231

Ion Ratio Lower Upper

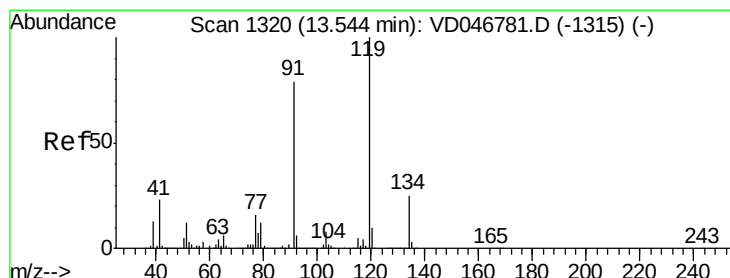
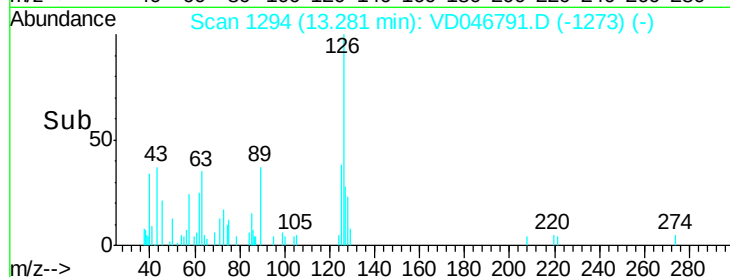
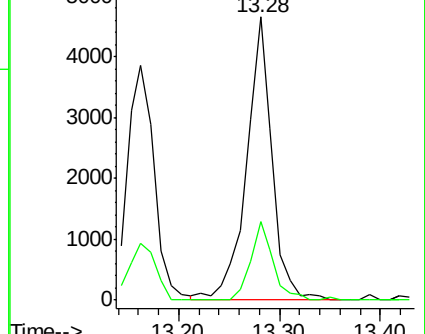
91 100

126 27.7 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#83

tert-Butylbenzene

Concen: 1.02 ug/l

RT: 13.55 min Scan# 1321

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

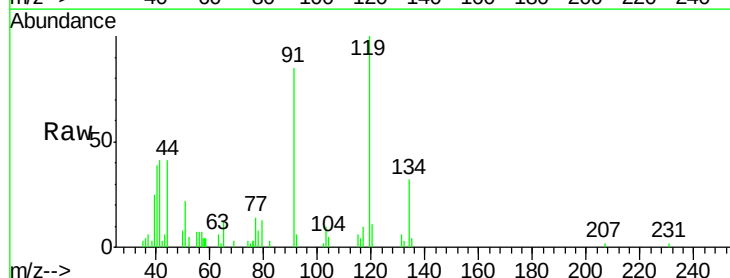
Tgt Ion: 119 Resp: 5638

Ion Ratio Lower Upper

119 100

91 84.7 41.6 124.9

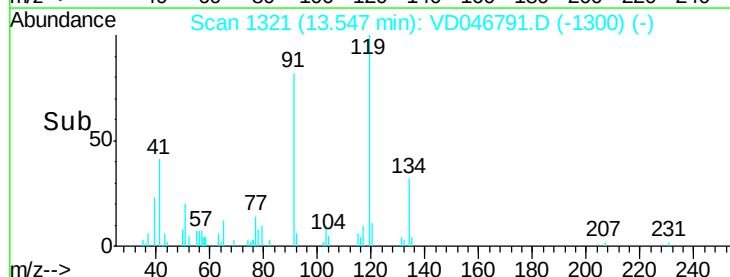
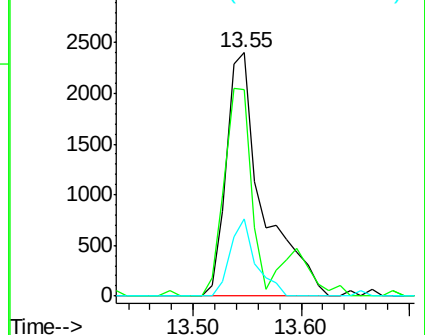
134 31.9 12.4 37.4

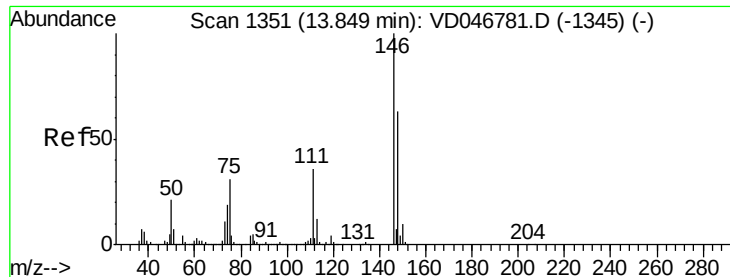


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

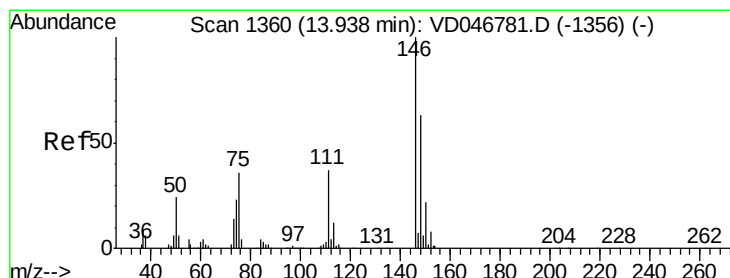
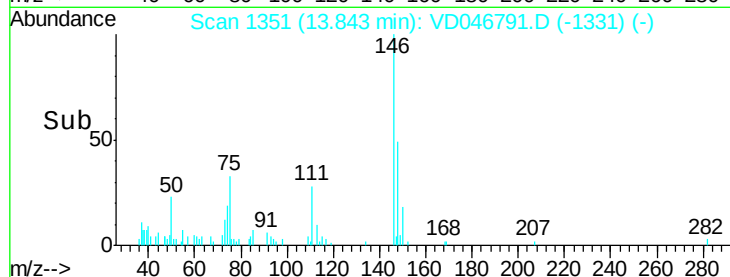
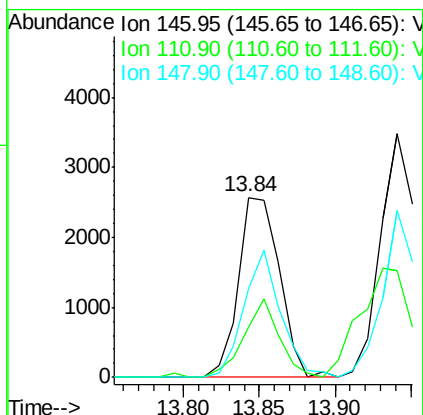
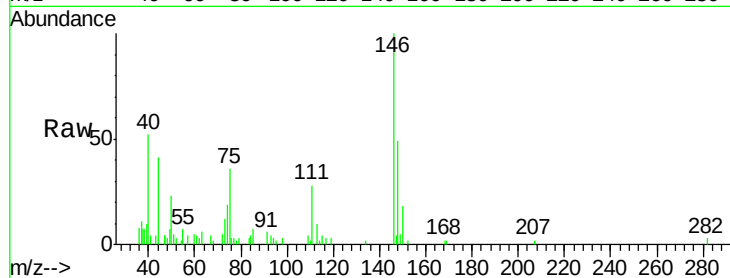




#87
 1,3-Dichlorobenzene
 Concen: 1.35 ug/l
 RT: 13.84 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

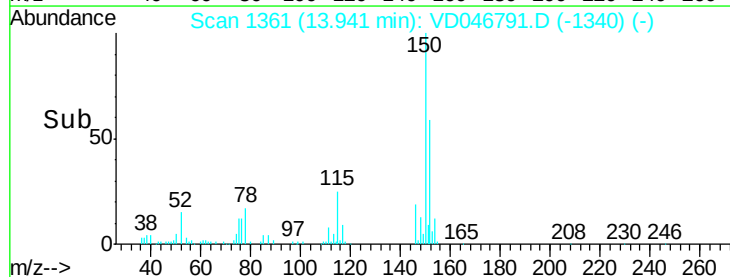
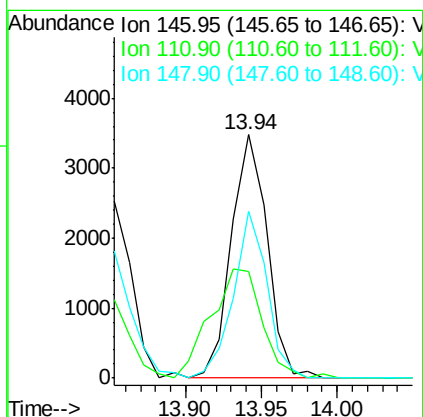
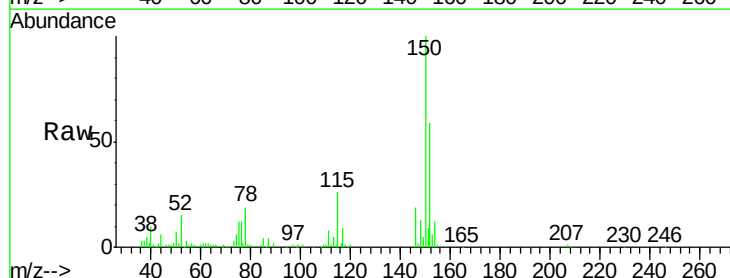
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

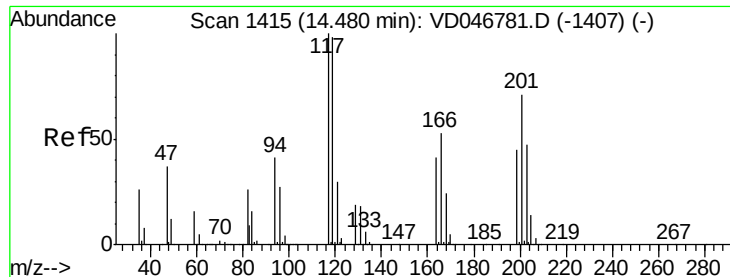
Tgt Ion:146 Resp: 4871
 Ion Ratio Lower Upper
 146 100
 111 27.7 17.4 52.2
 148 49.3 33.0 99.0



#88
 1,4-Dichlorobenzene
 Concen: 1.59 ug/l
 RT: 13.94 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion:146 Resp: 5729
 Ion Ratio Lower Upper
 146 100
 111 43.8 17.0 51.0
 148 68.3 31.9 95.7





#90

Hexachloroethane

Concen: 1.26 ug/l

RT: 14.48 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

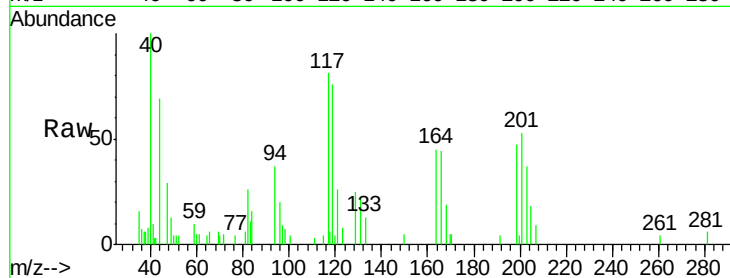
LOD-SOIL2015-01

Tgt Ion:117 Resp: 1869

Ion Ratio Lower Upper

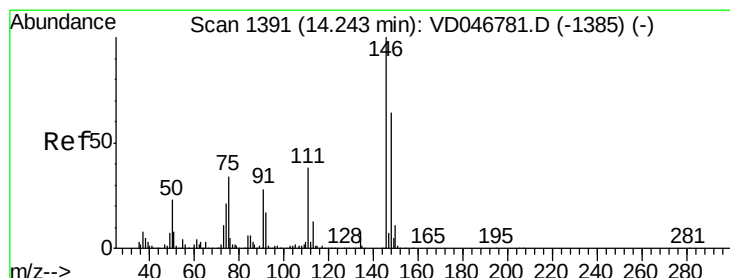
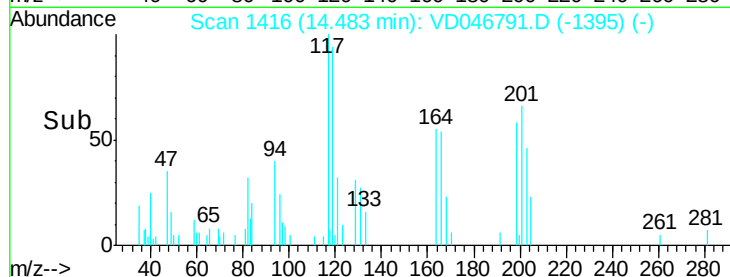
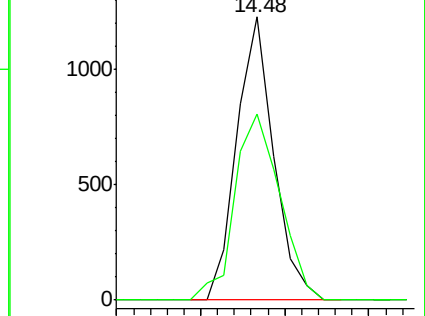
117 100

201 65.6 41.0 123.0



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#91

1,2-Dichlorobenzene

Concen: 1.36 ug/l

RT: 14.25 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

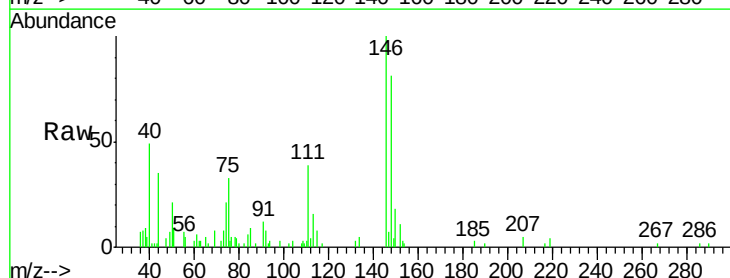
Tgt Ion:146 Resp: 4131

Ion Ratio Lower Upper

146 100

111 38.8 18.2 54.6

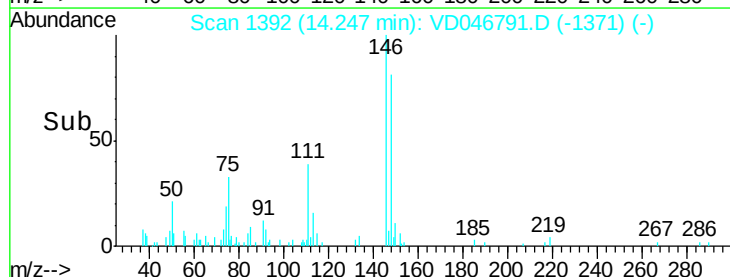
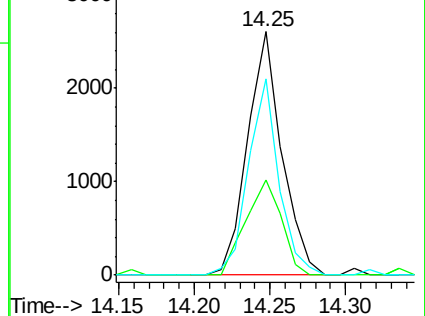
148 80.8 31.1 93.3

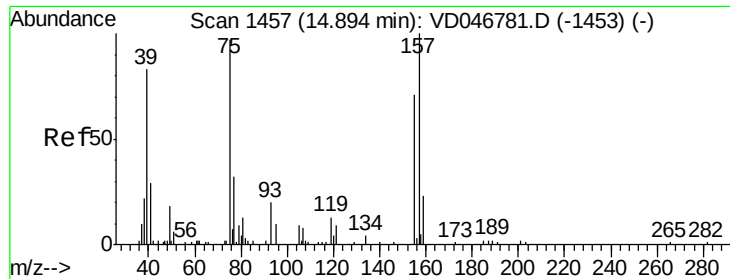


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

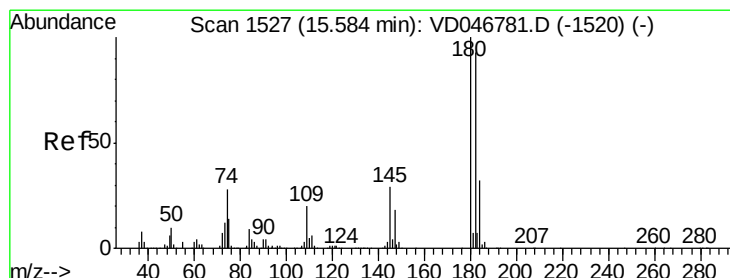
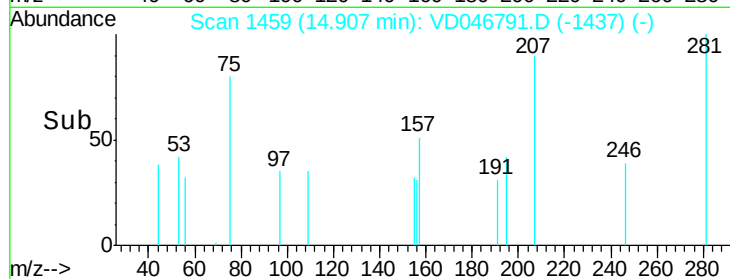
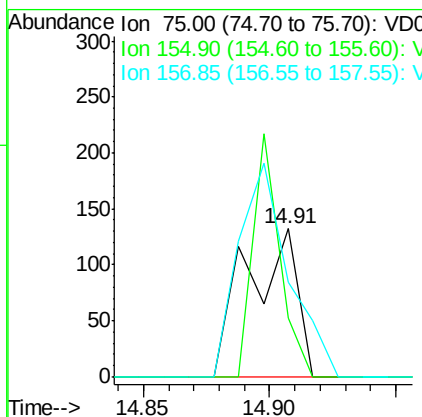
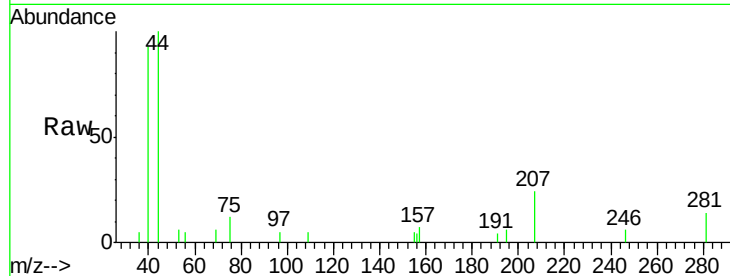




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.16 ug/l
 RT: 14.91 min Scan# 1459
 Delta R.T. 0.01 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

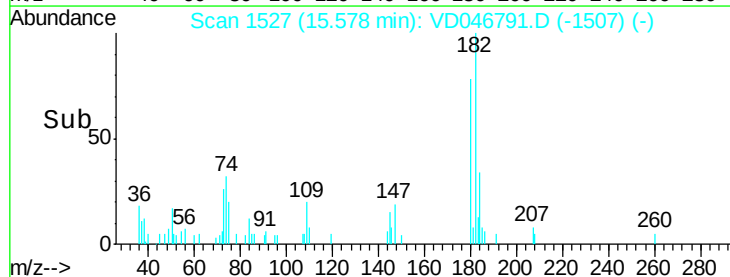
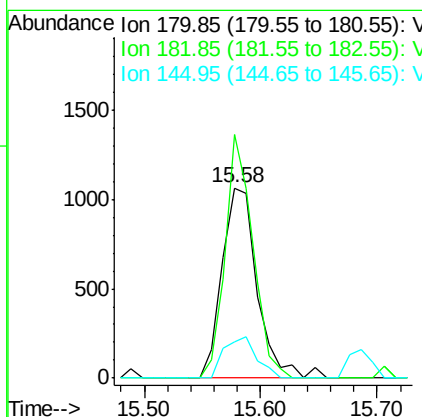
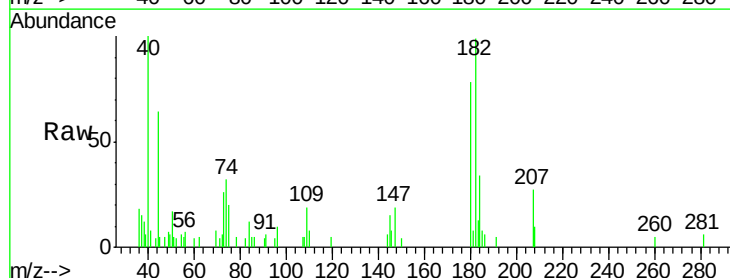
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

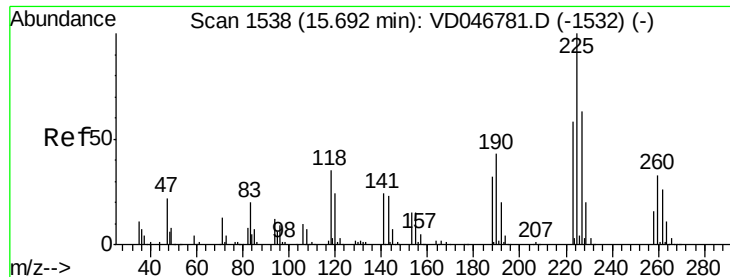
Tgt Ion: 75 Resp: 186
 Ion Ratio Lower Upper
 75 100
 155 40.2 41.4 124.4#
 157 63.6 65.0 195.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.27 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.01 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Tgt Ion: 180 Resp: 2229
 Ion Ratio Lower Upper
 180 100
 182 128.1 47.5 142.5
 145 18.9 14.6 44.0





#94

Hexachlorobutadiene

Concen: 1.59 ug/l

RT: 15.69 min Scan# 1538

Delta R.T. -0.01 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

Instrument :

MSVOA_D

ClientSampleId :

LOD-SOIL2015-01

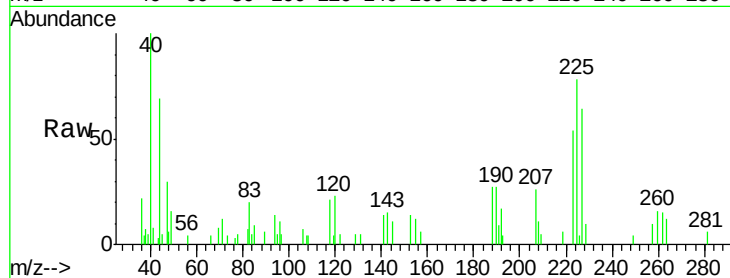
Tgt Ion: 225 Resp: 2288

Ion Ratio Lower Upper

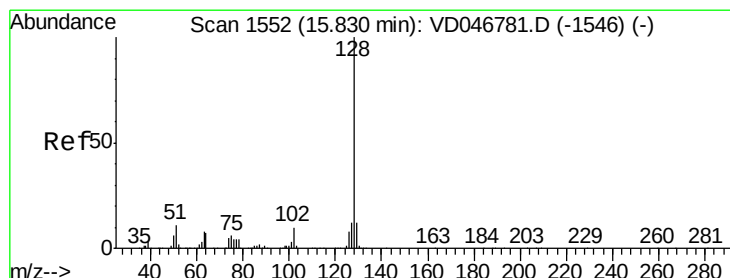
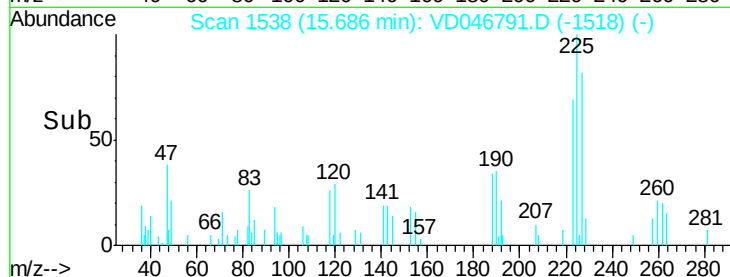
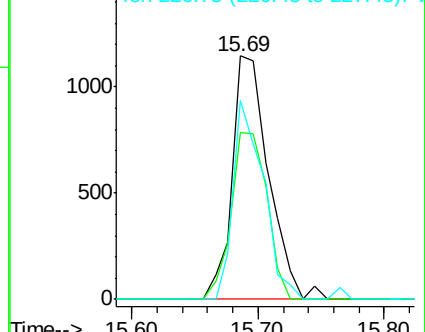
225 100

223 68.8 30.4 91.2

227 81.8 31.3 93.9



Abundance Ion 224.75 (224.45 to 225.45): V
Ion 222.75 (222.45 to 223.45): V
Ion 226.75 (226.45 to 227.45): V



#95

Naphthalene

Concen: 3.16 ug/l

RT: 15.83 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VD046791.D

Acq: 18 Sep 2015 19:45

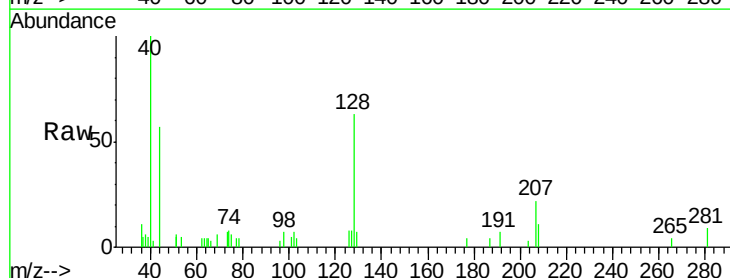
Tgt Ion: 128 Resp: 1897

Ion Ratio Lower Upper

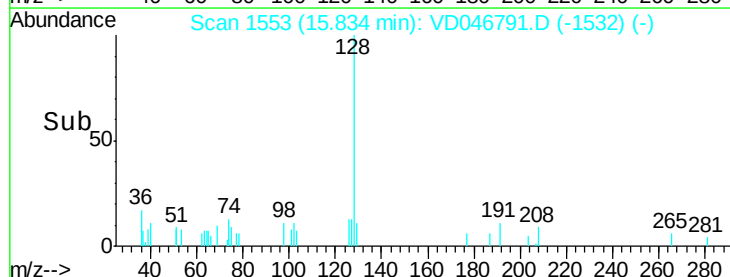
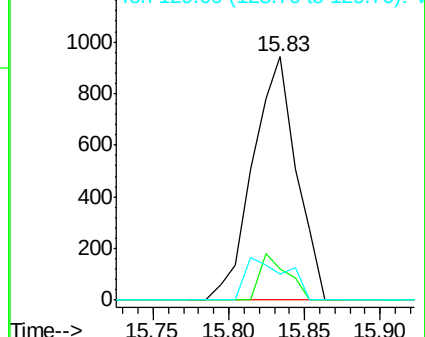
128 100

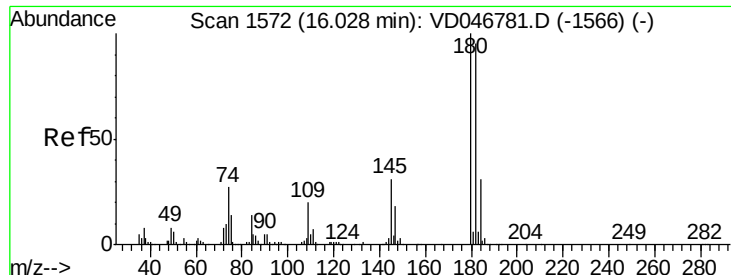
127 12.9 9.8 14.6

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

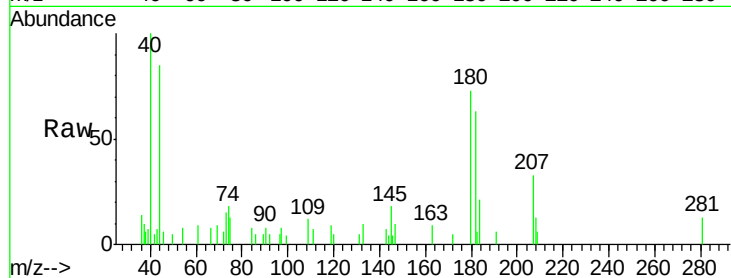




#96
 1,2,3-Trichlorobenzene
 Concen: 1.34 ug/l
 RT: 16.03 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VD046791.D
 Acq: 18 Sep 2015 19:45

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-SOIL2015-01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.2	47.4	142.3
145	24.6	15.4	46.4



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

