

Data Path : W:\HPCHEM1\MSVOA_D\DATA\VD091815\
 Data File : VD046795.D
 Acq On : 18 Sep 2015 21:34
 Operator : FY/SY
 Sample : G3707-04LOQ 10ppb
 Misc : 5.00gm/5mL/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

Quant Time: Sep 19 00:13:14 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	177674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	240072	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.58	117	231306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.92	152	120929	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.72	65	103399	55.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.94%	
35) Dibromofluoromethane	6.21	113	98921	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	
50) Toluene-d8	9.62	98	321263	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	
62) 4-Bromofluorobenzene	12.85	95	126272	52.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.84%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.42	85	20670	9.09	ug/l	96
3) Chlorodifluoromethane	1.44	51	17525	8.37	ug/l	94
4) Chloromethane	1.58	50	11841	11.31	ug/l	97
5) Vinyl Chloride	1.68	62	10912	11.09	ug/l	99
6) Bromomethane	1.98	94	11738	10.54	ug/l	92
7) Chloroethane	2.08	64	7299	11.85	ug/l	92
8) Trichlorofluoromethane	2.33	101	32601	11.20	ug/l	94
9) Diethyl Ether	2.64	74	5702	11.05	ug/l	91
10) 1,1,2-Trichlorotrifluoroet	2.89	101	20057	11.02	ug/l #	87
11) Methyl Iodide	3.06	142	15392	8.72	ug/l	98
12) Tert butyl alcohol	3.67	59	6000	47.48	ug/l #	74
13) 1,1-Dichloroethene	2.88	96	14366	10.09	ug/l	96
14) Acrolein	2.78	56	2652	28.10	ug/l #	80
15) Allyl chloride	3.33	41	28446	9.84	ug/l	86
16) Acrylonitrile	3.85	53	11510	53.36	ug/l #	96
17) Acetone	2.95	43	16021	51.33	ug/l	94
18) Carbon Disulfide	3.13	76	57470	10.78	ug/l #	94
19) Methyl Acetate	3.34	43	21487	11.88	ug/l	96
20) Methyl tert-butyl Ether	3.91	73	22555	10.11	ug/l #	87
21) Methylene Chloride	3.51	84	21819	12.87	ug/l #	87
22) trans-1,2-Dichloroethene	3.90	96	16989	10.58	ug/l	89
23) Diisopropyl ether	4.66	45	49891	10.40	ug/l #	85
24) Vinyl Acetate	4.61	43	37280	46.15	ug/l #	96
25) 1,1-Dichloroethane	4.57	63	32367	10.95	ug/l	98
26) 2-Butanone	5.45	43	18280	52.11	ug/l	97
27) 2,2-Dichloropropane	5.42	77	31462	10.36	ug/l	97
28) cis-1,2-Dichloroethene	5.43	96	18340	10.97	ug/l	94
29) Bromochloromethane	5.79	49	13253	11.38	ug/l	98
30) Chloroform	5.98	83	40890	11.41	ug/l	96
31) Cyclohexane	6.28	56	28879	10.41	ug/l #	88
32) 1,1,1-Trichloroethane	6.18	97	35175	11.02	ug/l	96
36) 1,1-Dichloropropene	6.43	75	28952	10.32	ug/l #	93
37) Ethyl Acetate	5.54	43	9100	10.10	ug/l #	93
38) Carbon Tetrachloride	6.41	117	29627	10.16	ug/l	96

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.09	83	24667	8.68	ug/l	93
40) Benzene	6.73	78	77458	10.82	ug/l	98
41) Methacrylonitrile	5.76	41	4959	9.81	ug/l #	83
42) 1,2-Dichloroethane	6.83	62	23625	10.62	ug/l	97
43) Isopropyl Acetate	8.41	43	10653	8.97	ug/l #	95
44) Trichloroethene	7.75	130	18122	10.11	ug/l	91
45) 1,2-Dichloropropane	8.15	63	19019	10.72	ug/l	100
46) Dibromomethane	8.27	93	10904	10.82	ug/l	89
47) Bromodichloromethane	8.57	83	27409	10.37	ug/l #	96
48) Methyl methacrylate	8.09	41	16754	9.22	ug/l	93
49) 1,4-Dioxane	8.30	88	1402	208.67	ug/l	95
51) 4-Methyl-2-Pentanone	9.49	43	40031	46.63	ug/l	98
52) Toluene	9.72	92	45623	10.33	ug/l	91
53) t-1,3-Dichloropropene	10.13	75	18034	9.24	ug/l	92
54) cis-1,3-Dichloropropene	9.23	75	23951	9.53	ug/l	93
55) 1,1,2-Trichloroethane	10.40	97	12601	11.02	ug/l	99
56) Ethyl methacrylate	10.24	69	8035	10.12	ug/l	96
57) 1,3-Dichloropropane	10.61	76	21667	10.19	ug/l	91
58) 2-Chloroethyl Vinyl ether	9.03	63	21970	44.29	ug/l	95
59) 2-Hexanone	10.72	43	27902	44.99	ug/l	94
60) Dibromochloromethane	10.89	129	16167	10.30	ug/l	90
61) 1,2-Dibromoethane	11.02	107	11881	10.52	ug/l	93
64) Tetrachloroethene	10.47	164	18586	9.95	ug/l	97
65) Chlorobenzene	11.61	112	49843	10.24	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.72	131	17993	10.06	ug/l	96
67) Ethyl Benzene	11.73	91	94506	9.66	ug/l	97
68) m/p-Xylenes	11.88	106	60236	19.52	ug/l	88
69) o-Xylene	12.30	106	24918	8.97	ug/l	87
70) Styrene	12.31	104	46742	9.71	ug/l	98
71) Bromoform	12.50	173	9431	9.90	ug/l	87
73) Isopropylbenzene	12.67	105	80311	9.42	ug/l	92
74) N-amyl acetate	12.50	43	13533	10.43	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.99	83	14780	10.74	ug/l	99
76) 1,2,3-Trichloropropane	13.03	75	14730	10.01	ug/l	96
77) Bromobenzene	12.98	156	21351	9.96	ug/l	86
78) n-propylbenzene	13.08	91	117864	9.79	ug/l	98
79) 2-Chlorotoluene	13.16	91	65589	9.81	ug/l	99
80) 1,3,5-Trimethylbenzene	13.25	105	64920	9.56	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.74	75	3183	11.03	ug/l	86
82) 4-Chlorotoluene	13.28	91	80849	10.16	ug/l	99
83) tert-Butylbenzene	13.54	119	69657	11.37	ug/l	96
84) 1,2,4-Trimethylbenzene	13.60	105	66252	9.69	ug/l	100
85) sec-Butylbenzene	13.73	105	87526	9.72	ug/l	94
86) p-Isopropyltoluene	13.87	119	68166	9.63	ug/l	94
87) 1,3-Dichlorobenzene	13.84	146	40406	10.10	ug/l	96
88) 1,4-Dichlorobenzene	13.94	146	41232	10.37	ug/l	98
89) n-Butylbenzene	14.22	91	73696	9.23	ug/l	98
90) Hexachloroethane	14.48	117	16312	9.94	ug/l	98
91) 1,2-Dichlorobenzene	14.24	146	35051	10.43	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.90	75	1784	10.09	ug/l	79

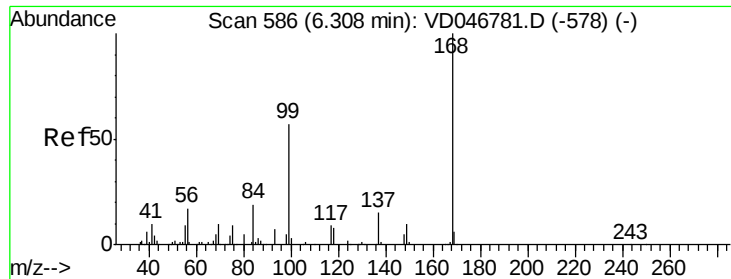
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Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.58	180	18607	9.62	ug/l	99
94) Hexachlorobutadiene	15.69	225	15377	9.65	ug/l	95
95) Naphthalene	15.82	128	19721	9.71	ug/l #	94
96) 1,2,3-Trichlorobenzene	16.02	180	15432	9.55	ug/l	97

(#) = 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: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

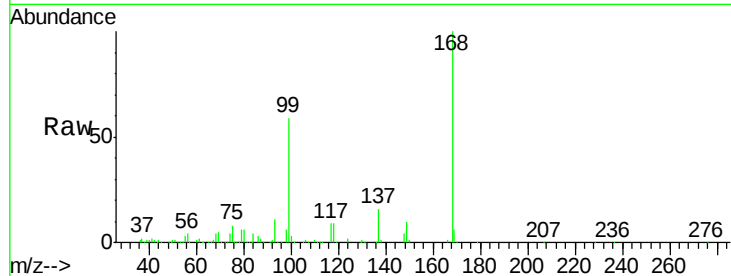
LOQ-SOIL2015-02

Tgt Ion:168 Resp: 177674

Ion Ratio Lower Upper

168 100

99 58.9 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

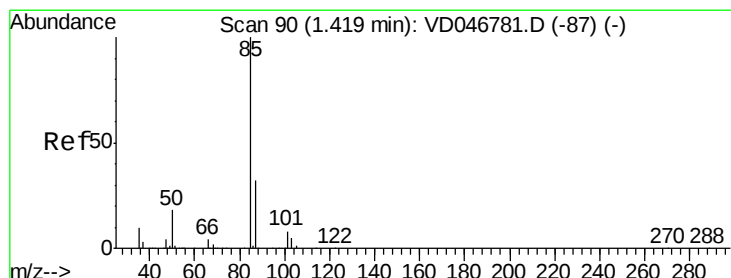
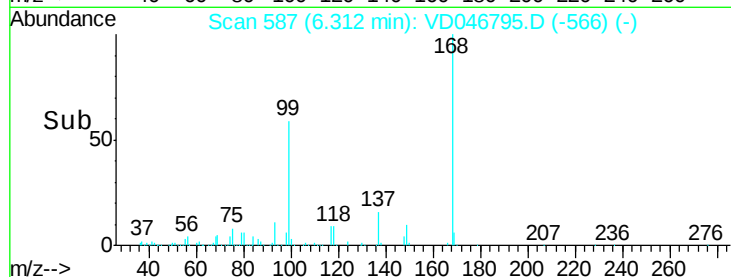
40000

20000

0

6.20 6.30 6.40

Time-->



#2

Dichlorodifluoromethane

Concen: 9.09 ug/l

RT: 1.42 min Scan# 91

Delta R.T. 0.00 min

Lab File: VD046795.D

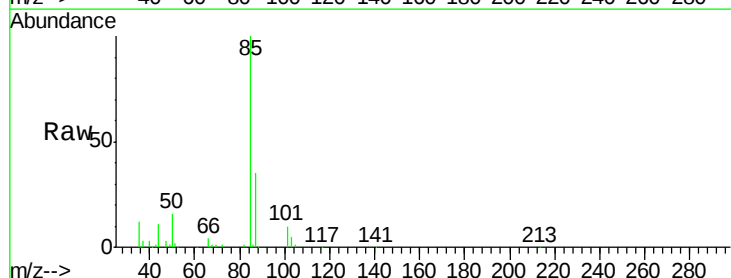
Acq: 18 Sep 2015 21:34

Tgt Ion: 85 Resp: 20670

Ion Ratio Lower Upper

85 100

87 34.7 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

20000

15000

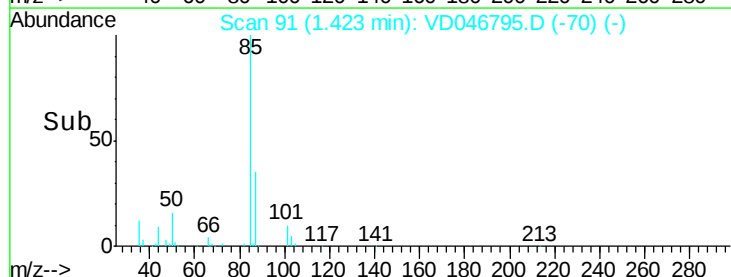
10000

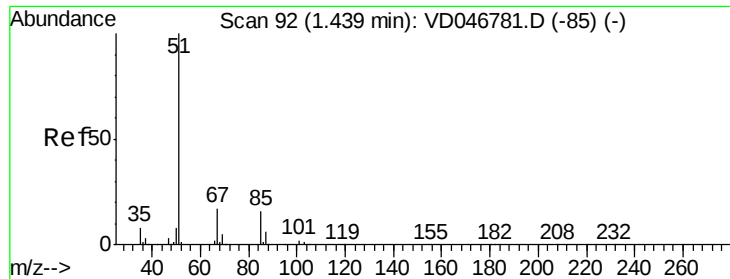
5000

0

1.35 1.40 1.45 1.50 1.55

Time-->





#3

Chlorodifluoromethane

Concen: 8.37 ug/l

RT: 1.44 min Scan# 93

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

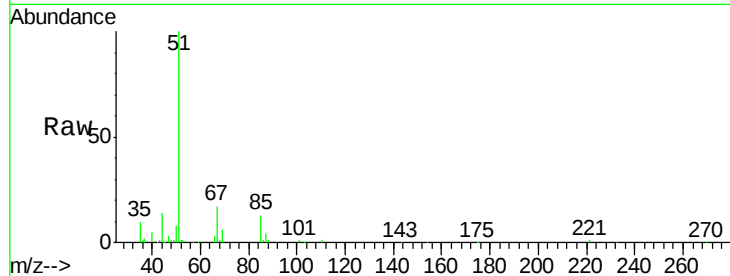
LOQ-SOIL2015-02

Tgt Ion: 51 Resp: 17525

Ion Ratio Lower Upper

51 100

67 16.0 10.9 16.3



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

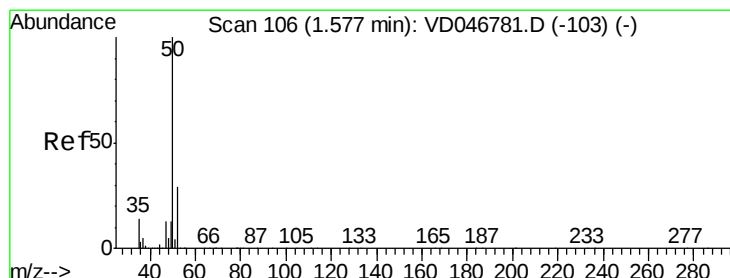
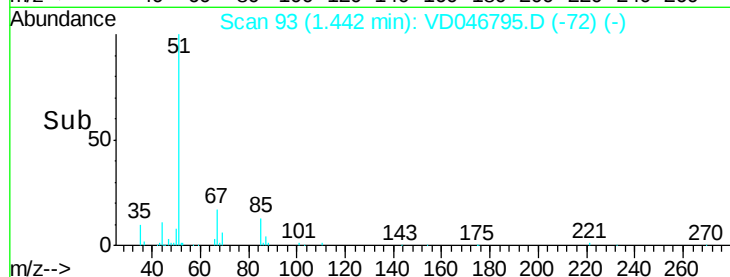
15000

10000

5000

0

Time--> 1.35 1.40 1.45 1.50 1.55



#4

Chloromethane

Concen: 11.31 ug/l

RT: 1.58 min Scan# 107

Delta R.T. 0.00 min

Lab File: VD046795.D

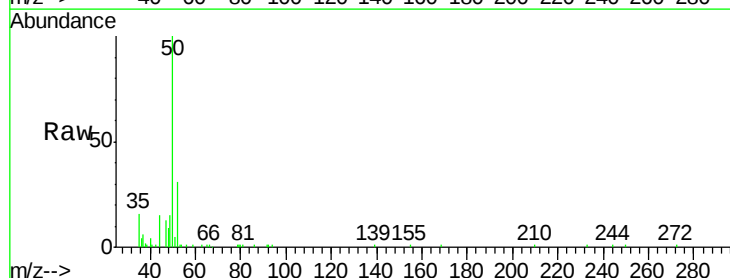
Acq: 18 Sep 2015 21:34

Tgt Ion: 50 Resp: 11841

Ion Ratio Lower Upper

50 100

52 30.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

12000

10000

8000

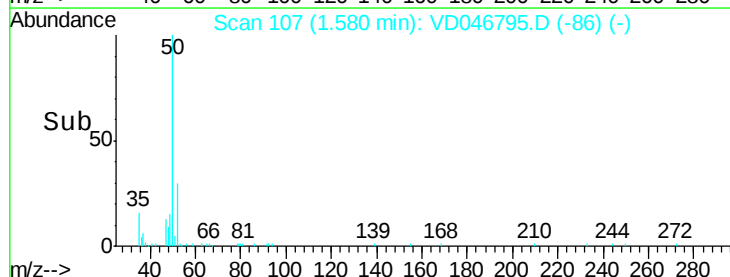
6000

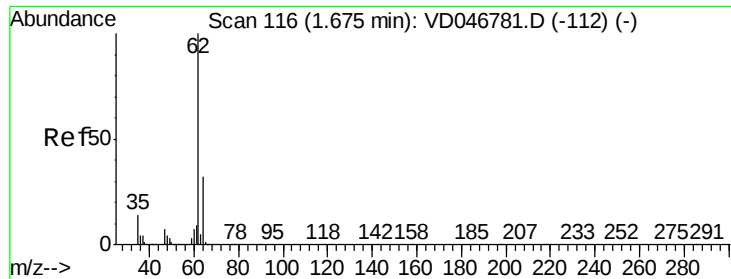
4000

2000

0

Time--> 1.50 1.55 1.60 1.65





#5

Vinyl Chloride

Concen: 11.09 ug/l

RT: 1.68 min Scan# 117

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

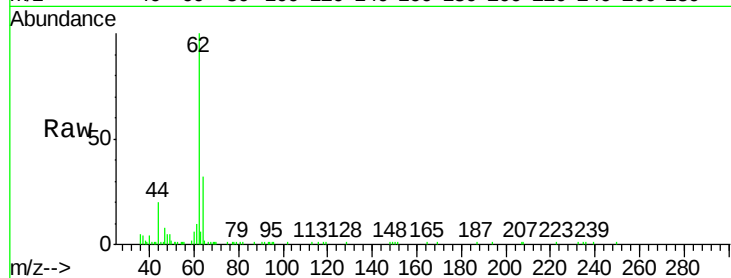
LOQ-SOIL2015-02

Tgt Ion: 62 Resp: 10912

Ion Ratio Lower Upper

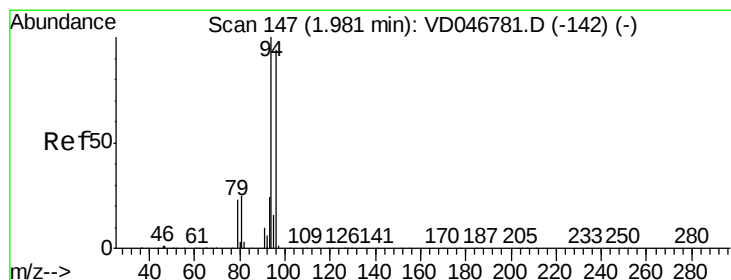
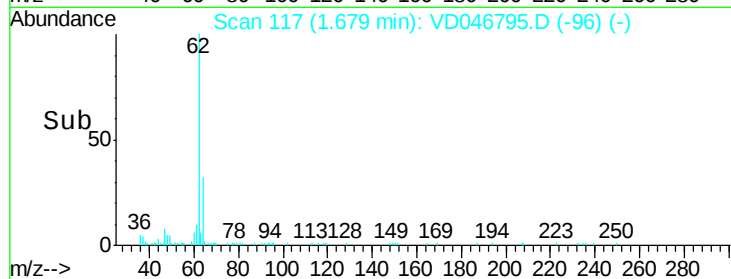
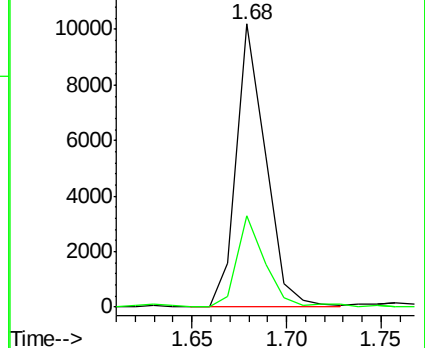
62 100

64 32.2 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#6

Bromomethane

Concen: 10.54 ug/l

RT: 1.98 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD046795.D

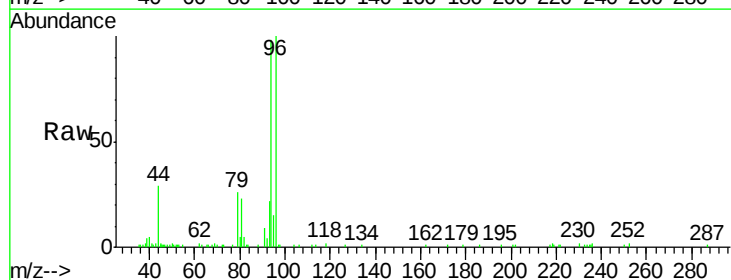
Acq: 18 Sep 2015 21:34

Tgt Ion: 94 Resp: 11738

Ion Ratio Lower Upper

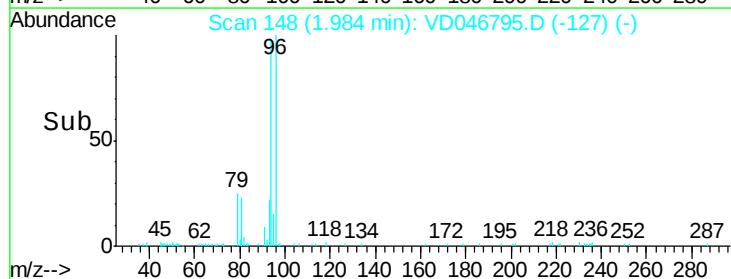
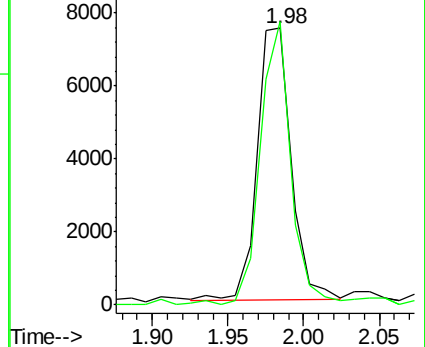
94 100

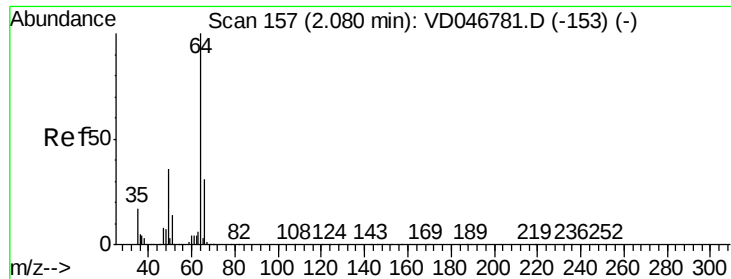
96 102.4 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#7

Chloroethane

Concen: 11.85 ug/l

RT: 2.08 min Scan# 158

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

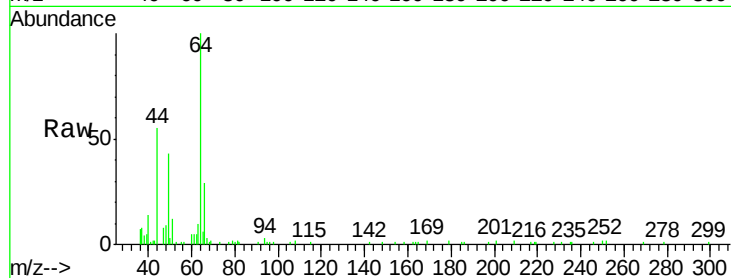
LOQ-SOIL2015-02

Tgt Ion: 64 Resp: 7299

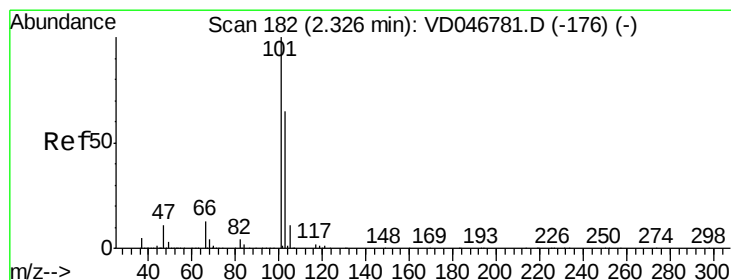
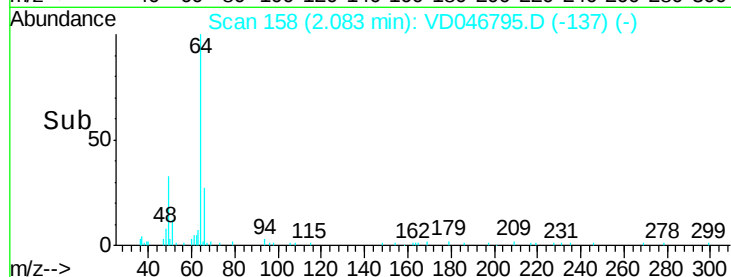
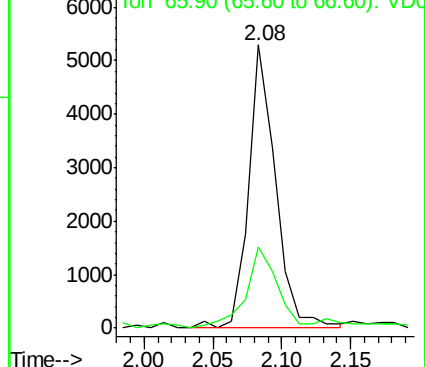
Ion Ratio Lower Upper

64 100

66 28.9 26.6 39.8



Abundance Ion 63.95 (63.65 to 64.65): VD046781.D (-153) (-)



#8

Trichlorofluoromethane

Concen: 11.20 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD046795.D

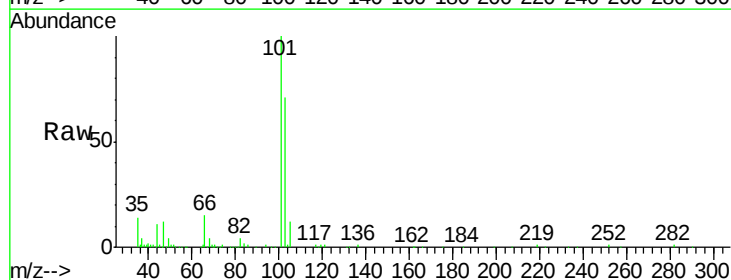
Acq: 18 Sep 2015 21:34

Tgt Ion: 101 Resp: 32601

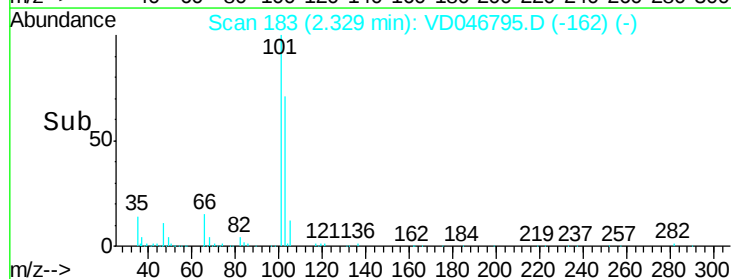
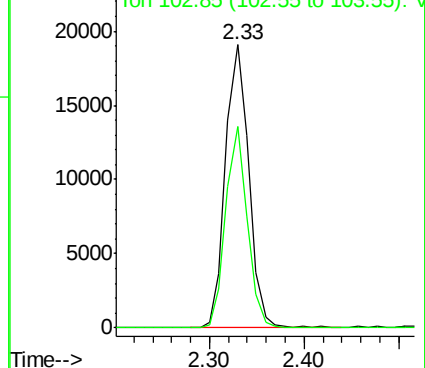
Ion Ratio Lower Upper

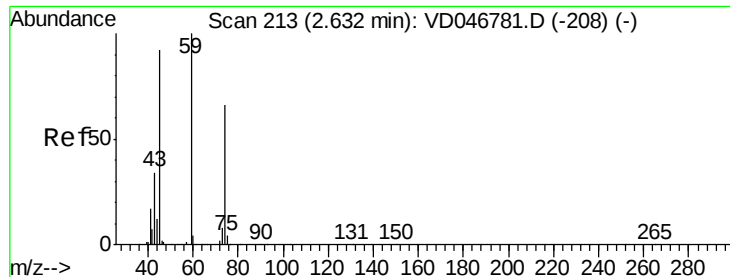
101 100

103 71.2 53.2 79.8



Abundance Ion 100.85 (100.55 to 101.55): VD046781.D (-176) (-)





#9

Diethyl Ether

Concen: 11.05 ug/l

RT: 2.64 min Scan# 214

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

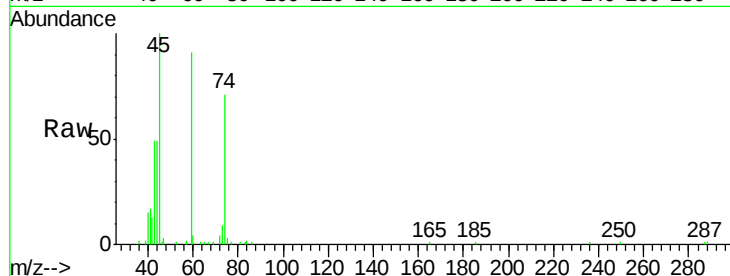
LOQ-SOIL2015-02

Tgt Ion: 74 Resp: 5702

Ion Ratio Lower Upper

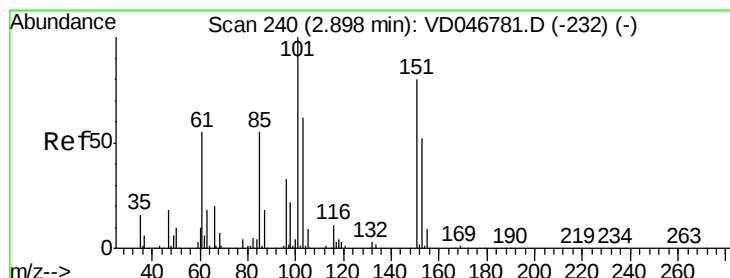
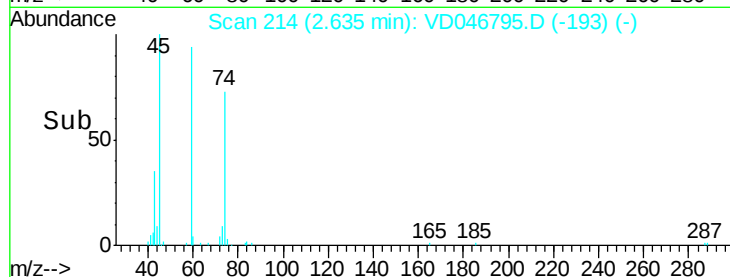
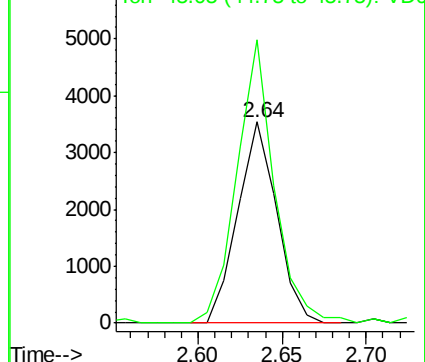
74 100

45 140.6 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: 11.02 ug/l

RT: 2.89 min Scan# 240

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

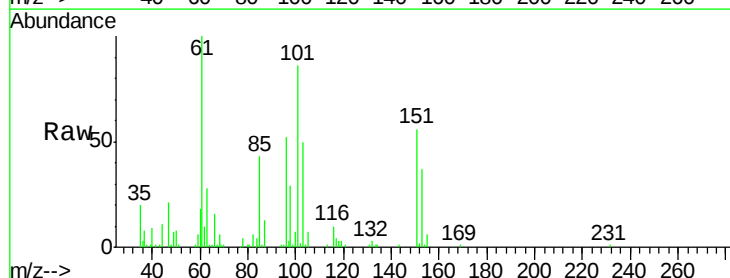
Tgt Ion: 101 Resp: 20057

Ion Ratio Lower Upper

101 100

85 49.3 42.0 63.0

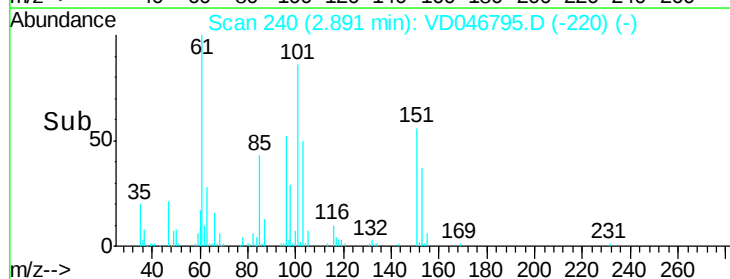
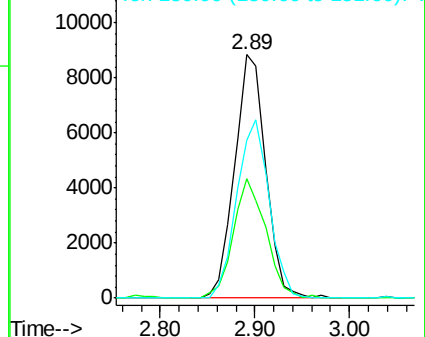
151 64.8 65.2 97.8#

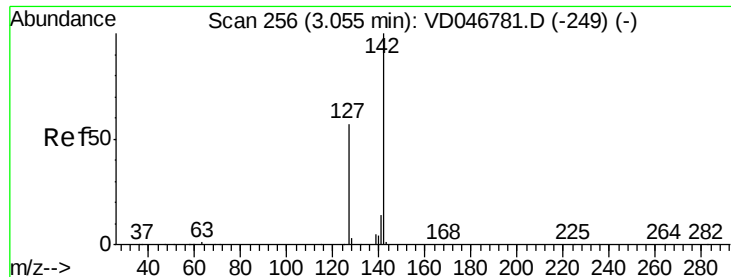


Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V

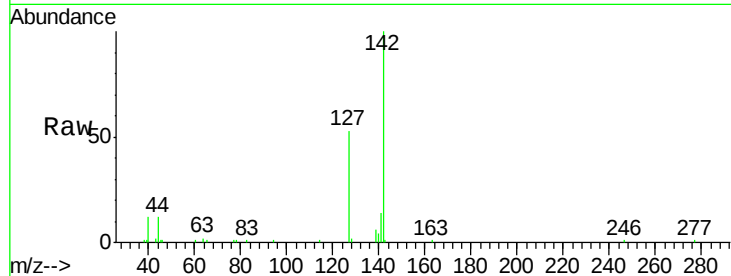




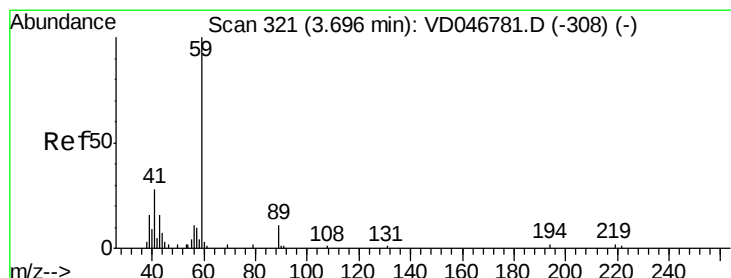
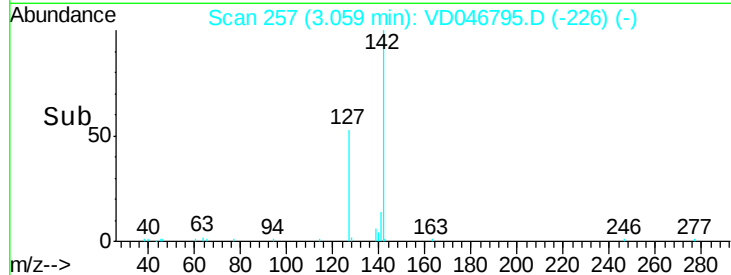
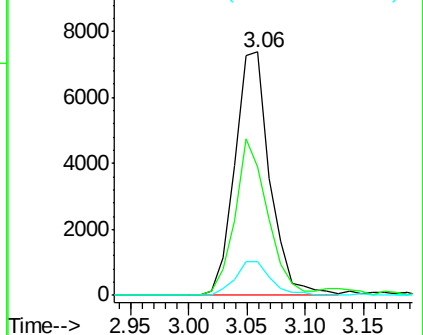
#11
Methyl Iodide
Concen: 8.72 ug/l
RT: 3.06 min Scan# 257
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:142 Resp: 15392
Ion Ratio Lower Upper
142 100
127 52.7 41.2 61.8
141 13.8 11.6 17.4

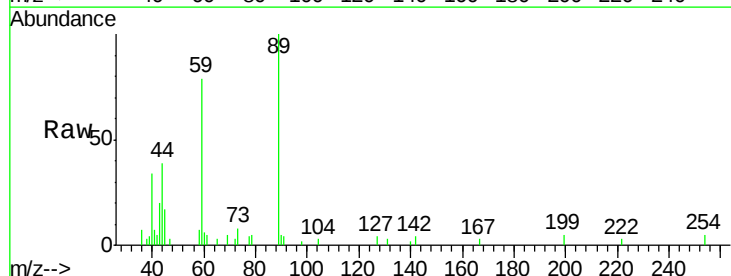


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

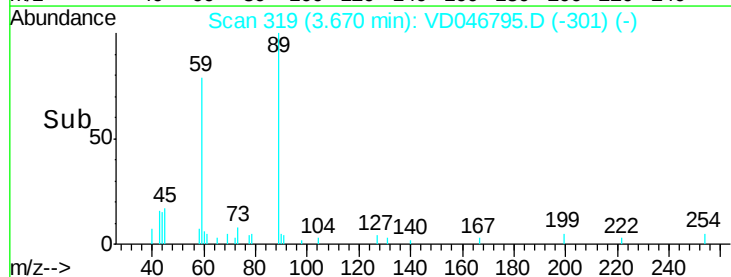
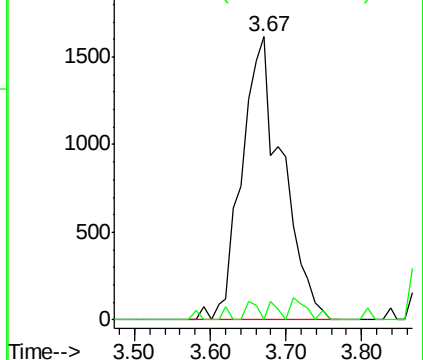


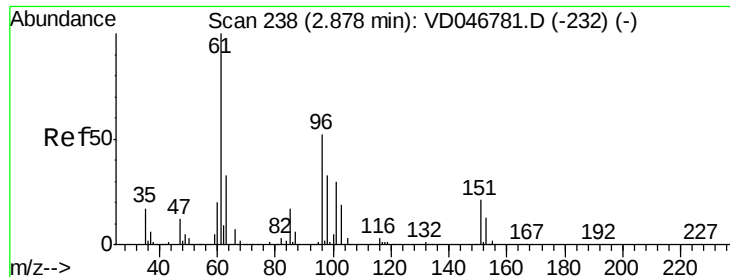
#12
Tert butyl alcohol
Concen: 47.48 ug/l
RT: 3.67 min Scan# 319
Delta R.T. -0.03 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 59 Resp: 6000
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V

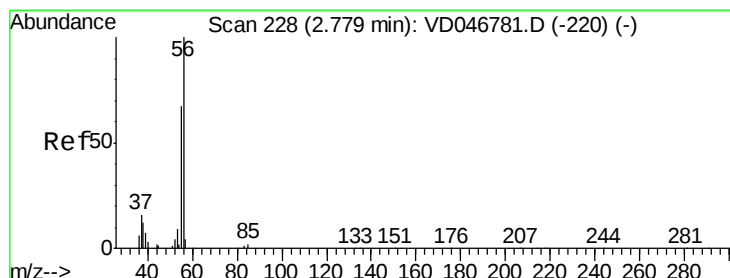
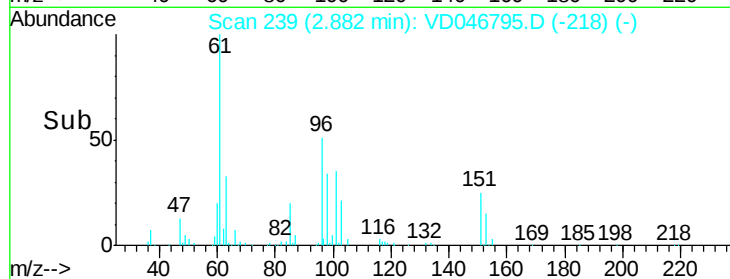
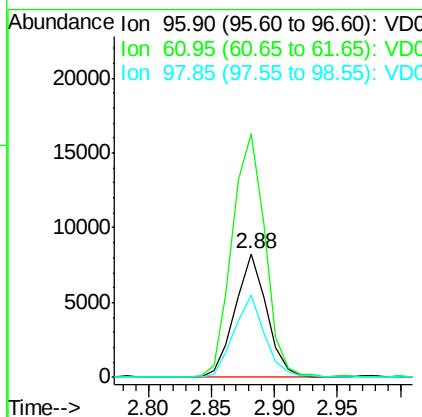
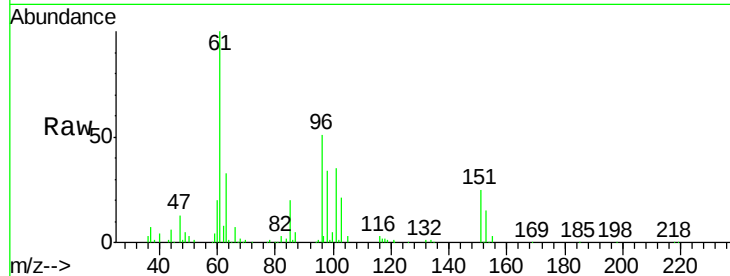




#13
 1,1-Dichloroethene
 Concen: 10.09 ug/l
 RT: 2.88 min Scan# 239
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

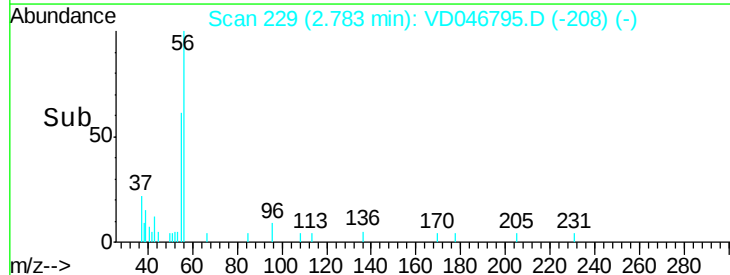
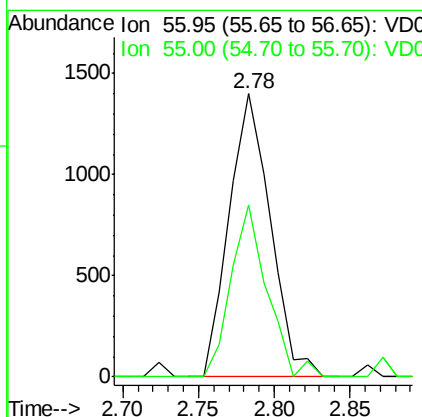
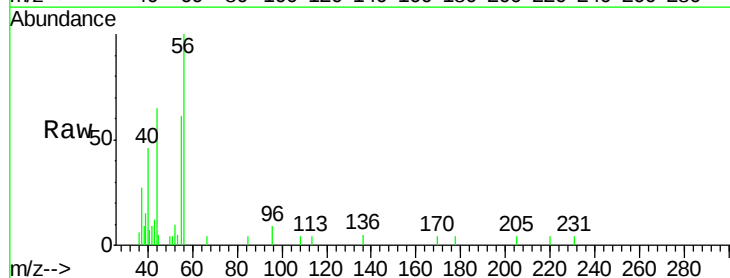
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

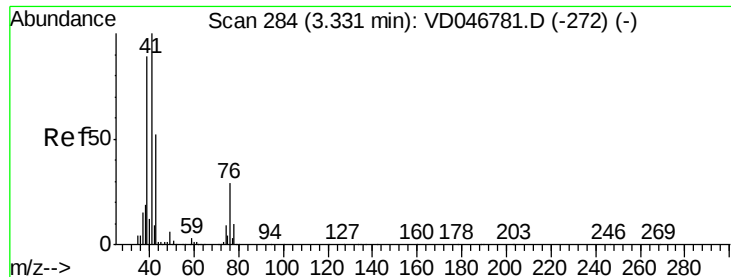
Tgt Ion: 96 Resp: 14366
 Ion Ratio Lower Upper
 96 100
 61 196.6 152.2 228.4
 98 66.2 51.2 76.8



#14
 Acrolein
 Concen: 28.10 ug/l
 RT: 2.78 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion: 56 Resp: 2652
 Ion Ratio Lower Upper
 56 100
 55 60.8 62.6 93.8#

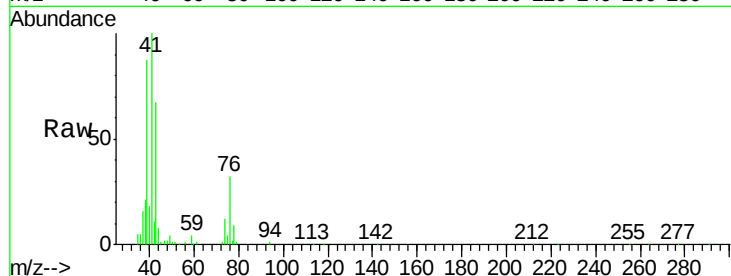




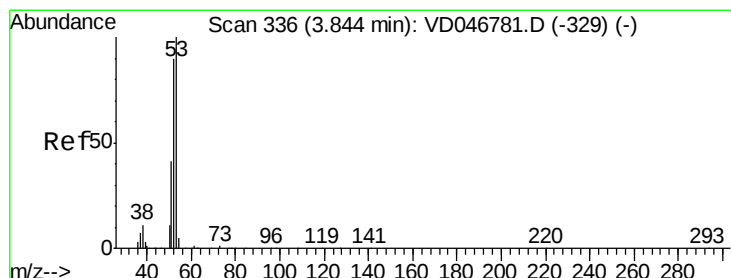
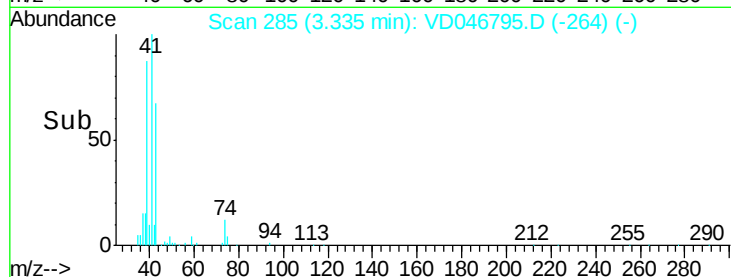
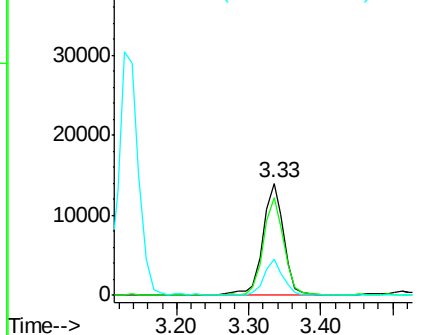
#15
 Allyl chloride
 Concen: 9.84 ug/l
 RT: 3.33 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion: 41 Resp: 28446
 Ion Ratio Lower Upper
 41 100
 39 87.4 58.8 88.2
 76 32.3 22.7 34.1

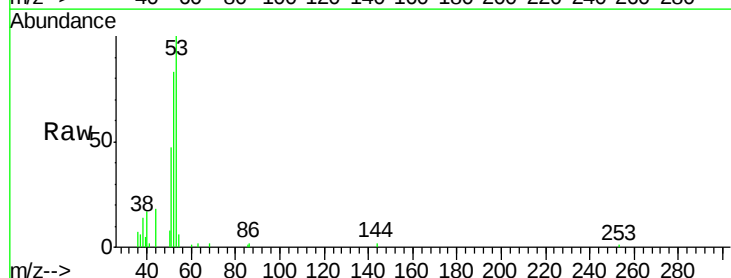


Abundance Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC
 Ion 75.95 (75.65 to 76.65): VDC

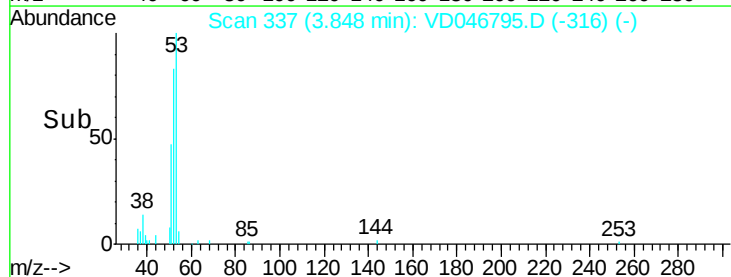
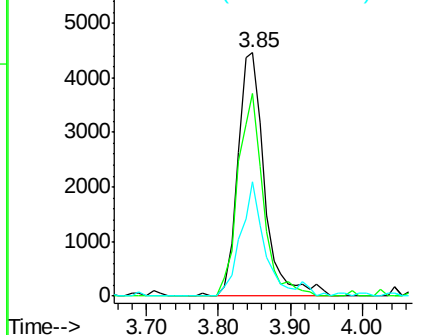


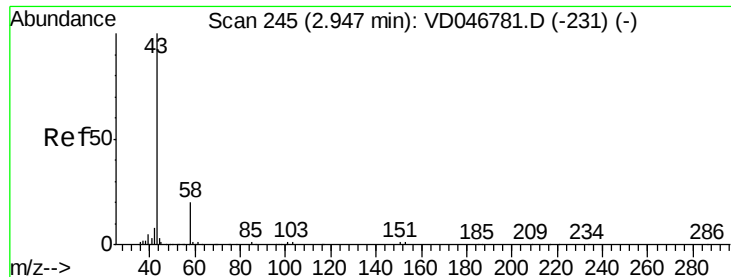
#16
 Acrylonitrile
 Concen: 53.36 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion: 53 Resp: 11510
 Ion Ratio Lower Upper
 53 100
 52 83.3 66.8 100.2
 51 47.0 31.2 46.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC
 Ion 52.00 (51.70 to 52.70): VDC
 Ion 51.00 (50.70 to 51.70): VDC





#17

Acetone

Concen: 51.33 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

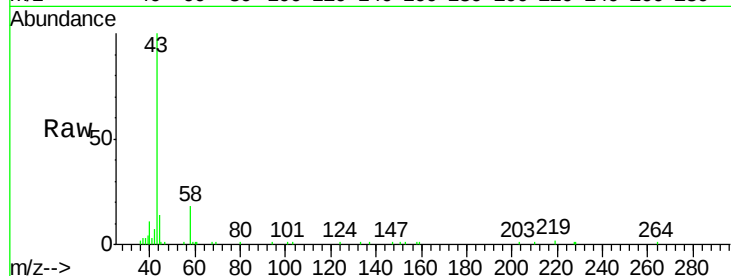
LOQ-SOIL2015-02

Tgt Ion: 43 Resp: 16021

Ion Ratio Lower Upper

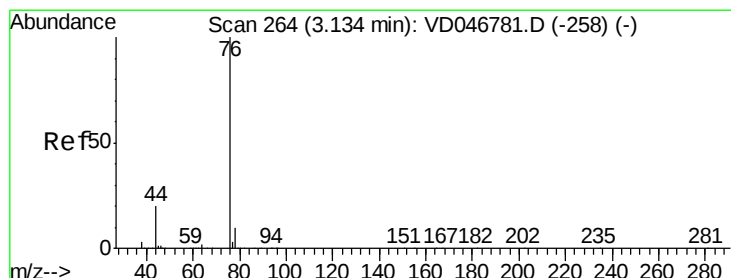
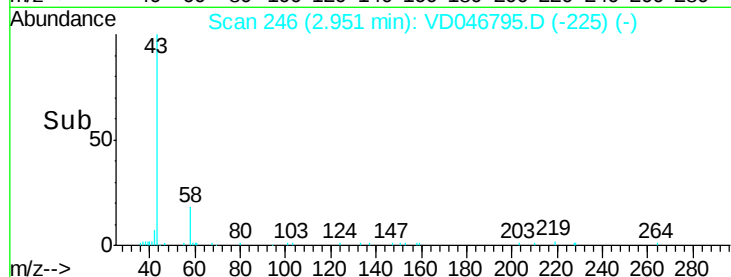
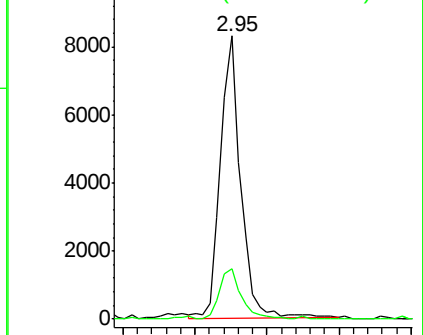
43 100

58 17.9 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: 10.78 ug/l

RT: 3.13 min Scan# 264

Delta R.T. -0.01 min

Lab File: VD046795.D

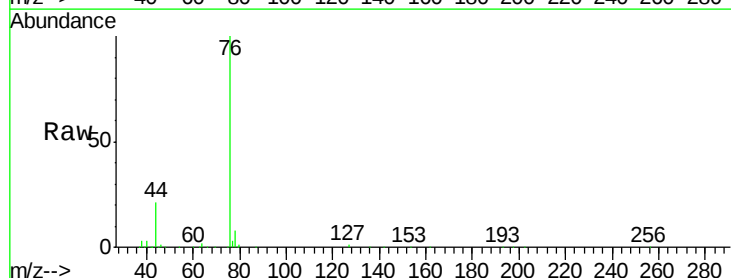
Acq: 18 Sep 2015 21:34

Tgt Ion: 76 Resp: 57470

Ion Ratio Lower Upper

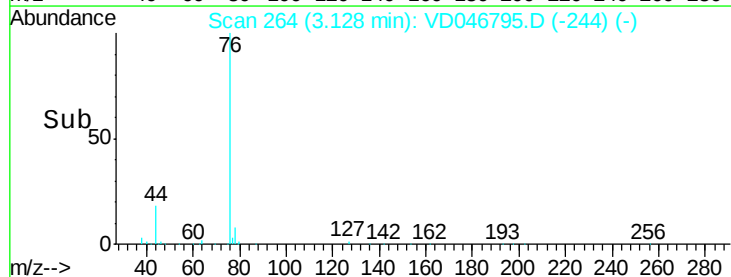
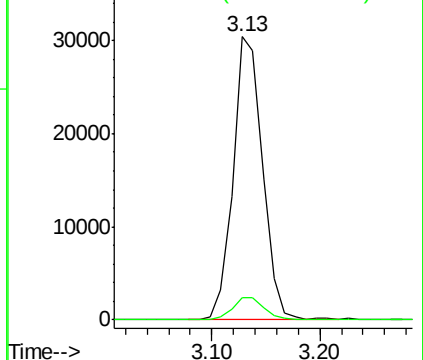
76 100

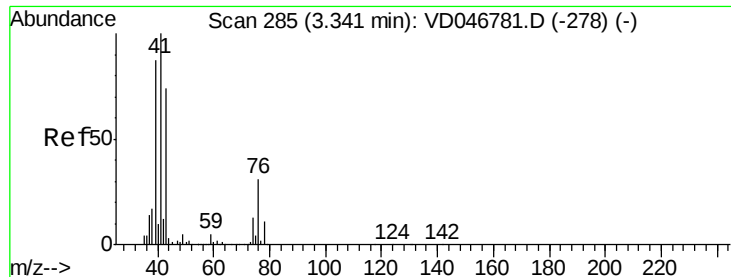
78 7.7 8.0 12.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

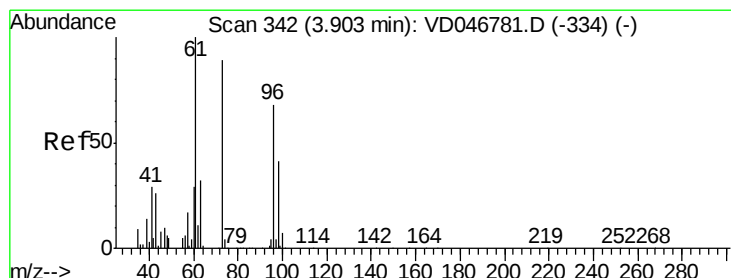
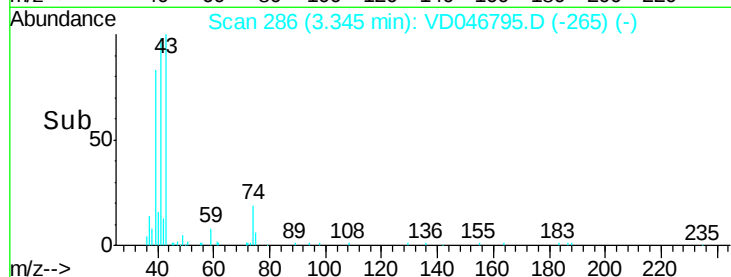
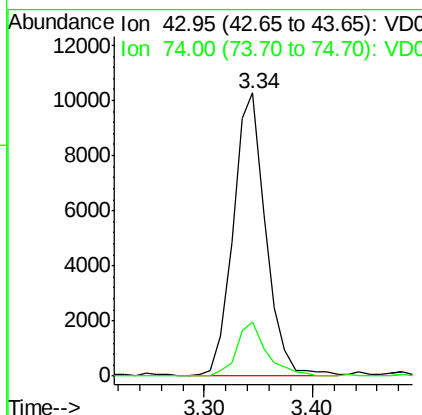
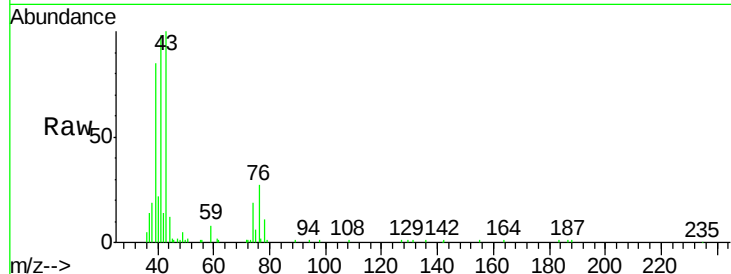




#19
Methyl Acetate
Concen: 11.88 ug/l
RT: 3.34 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

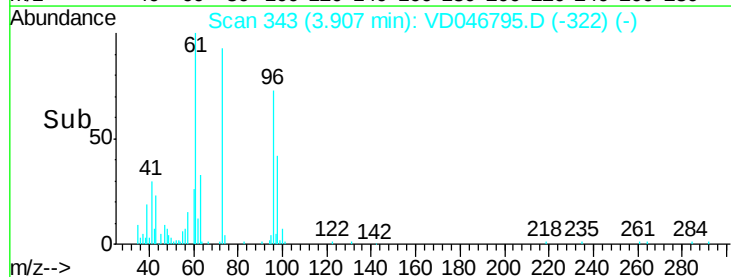
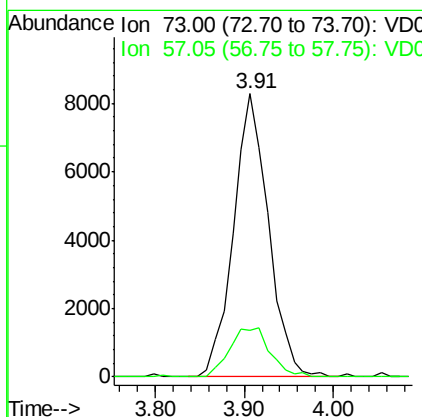
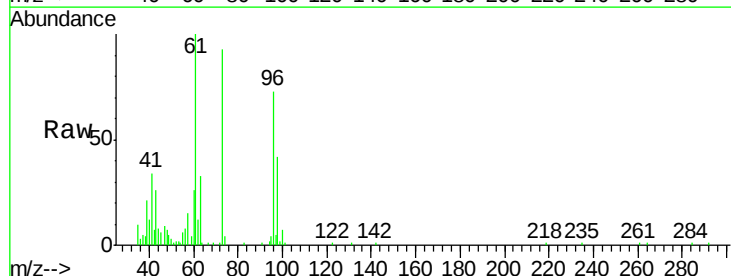
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

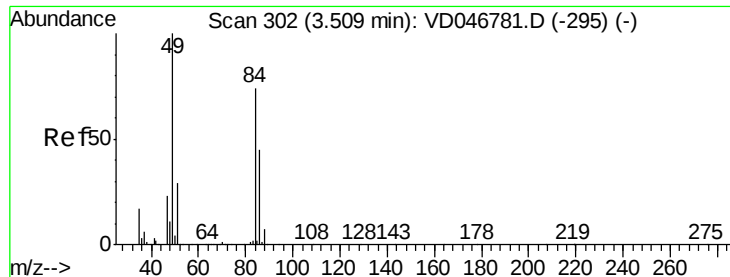
Tgt Ion: 43 Resp: 21487
Ion Ratio Lower Upper
43 100
74 19.0 13.7 20.5



#20
Methyl tert-butyl Ether
Concen: 10.11 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 73 Resp: 22555
Ion Ratio Lower Upper
73 100
57 16.5 18.1 27.1#

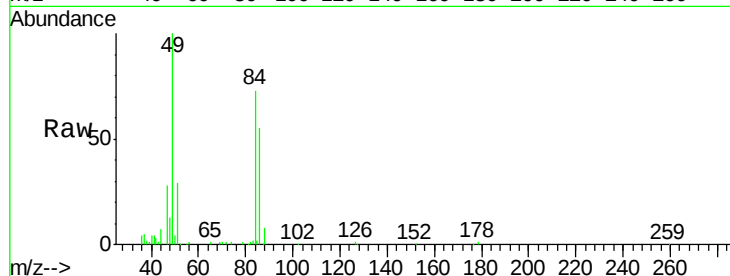




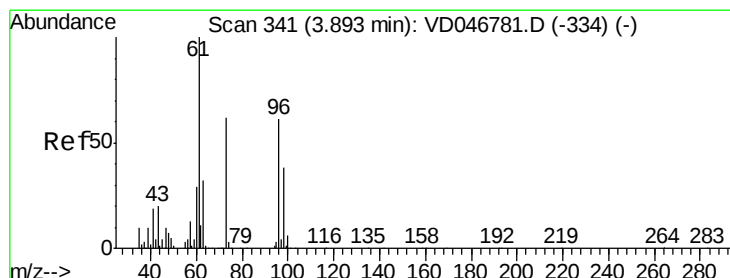
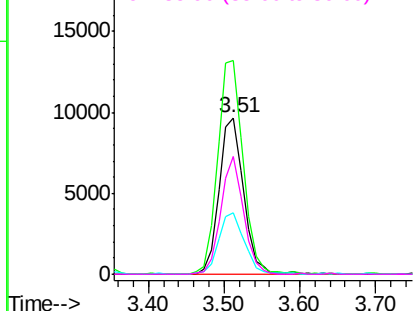
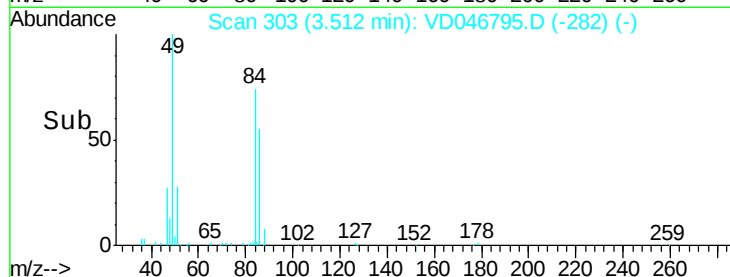
#21
Methylene Chloride
Concen: 12.87 ug/l
RT: 3.51 min Scan# 303
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion: 84 Resp: 21819
Ion Ratio Lower Upper
84 100
49 136.3 122.1 183.1
51 39.2 33.6 50.4
86 74.9 48.3 72.5#

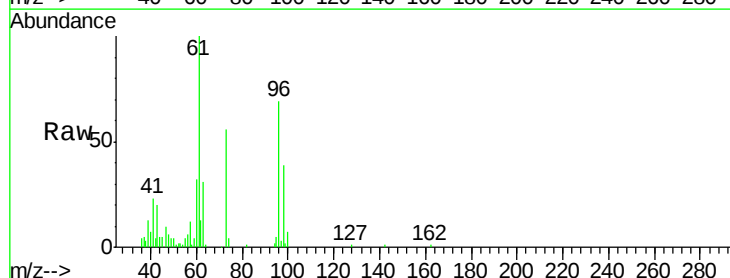


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

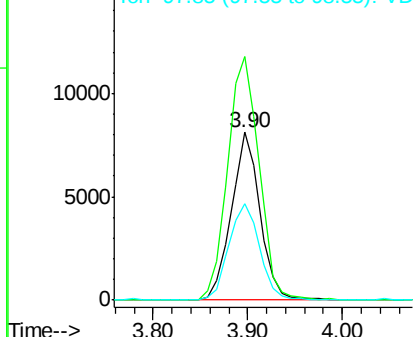
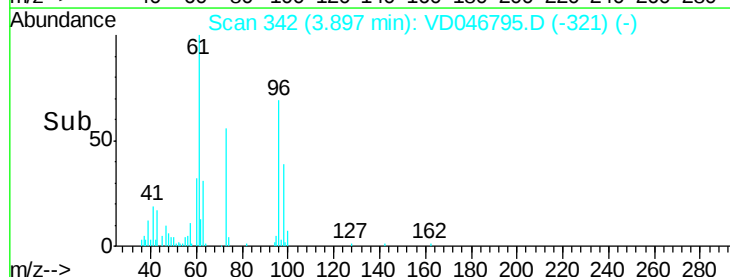


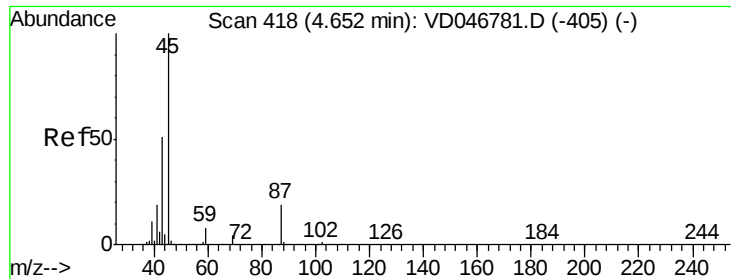
#22
trans-1,2-Dichloroethene
Concen: 10.58 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 96 Resp: 16989
Ion Ratio Lower Upper
96 100
61 145.0 125.8 188.6
98 57.2 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

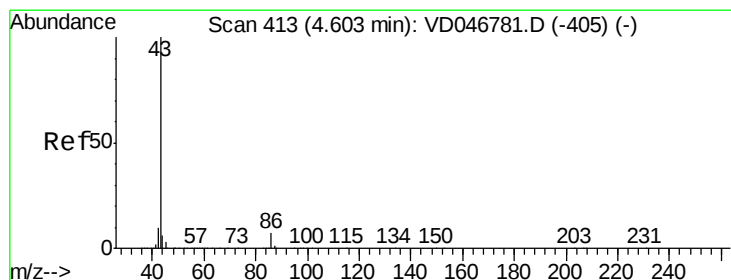
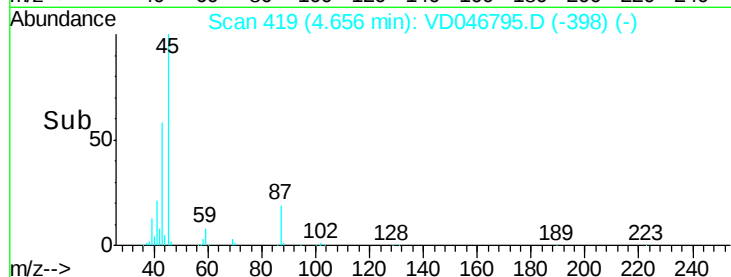
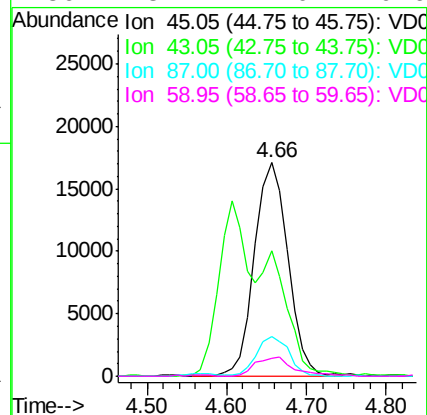
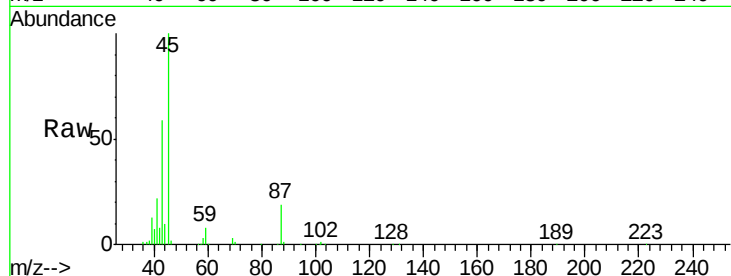




#23
Diisopropyl ether
Concen: 10.40 ug/l
RT: 4.66 min Scan# 419
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

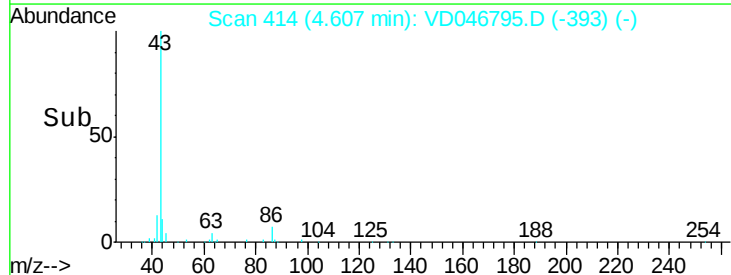
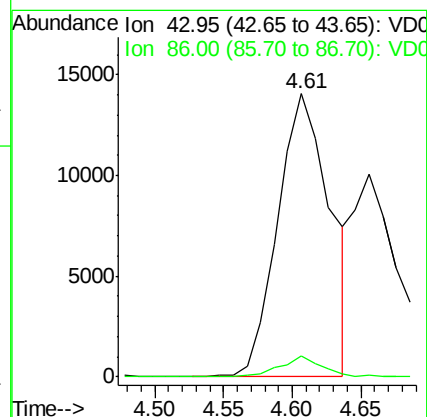
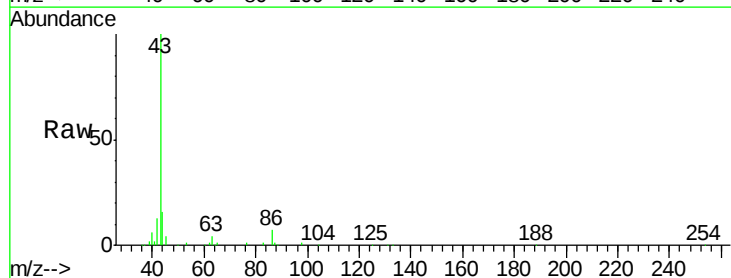
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

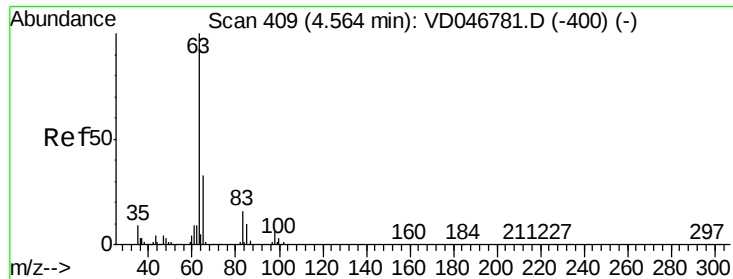
Tgt Ion: 45 Resp: 49891
Ion Ratio Lower Upper
45 100
43 58.7 35.9 53.9#
87 18.6 13.0 19.6
59 8.2 7.0 10.6



#24
Vinyl Acetate
Concen: 46.15 ug/l
RT: 4.61 min Scan# 414
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 43 Resp: 37280
Ion Ratio Lower Upper
43 100
86 7.4 4.9 7.3#





#25

1,1-Dichloroethane

Concen: 10.95 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

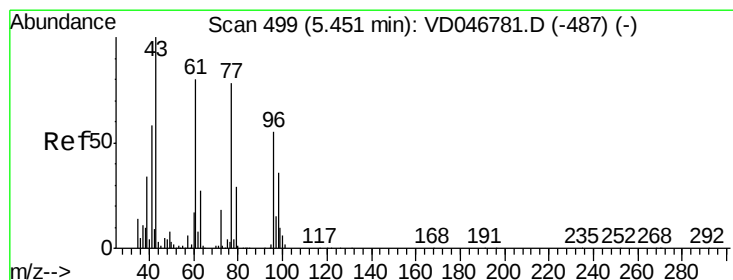
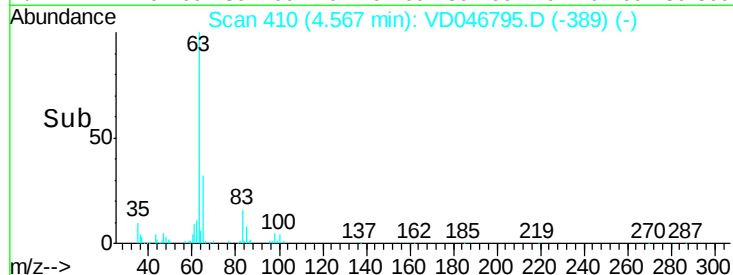
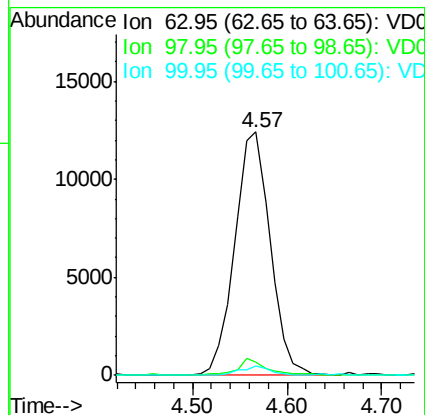
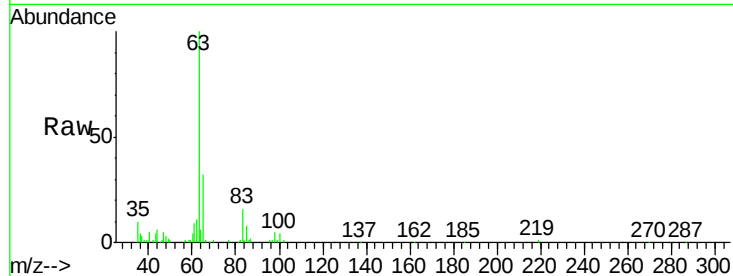
Tgt Ion: 63 Resp: 32367

Ion Ratio Lower Upper

63 100

98 5.4 2.5 7.5

100 3.9 1.5 4.5



#26

2-Butanone

Concen: 52.11 ug/l

RT: 5.45 min Scan# 500

Delta R.T. 0.00 min

Lab File: VD046795.D

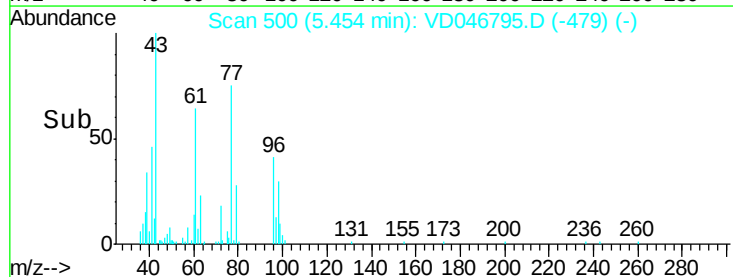
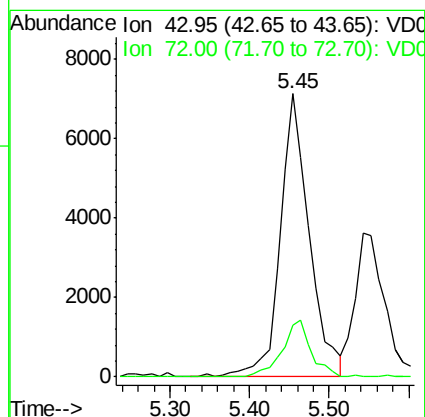
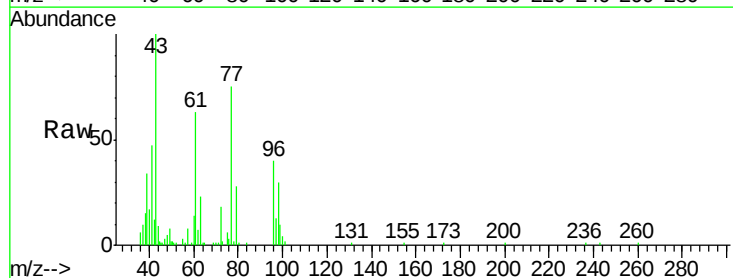
Acq: 18 Sep 2015 21:34

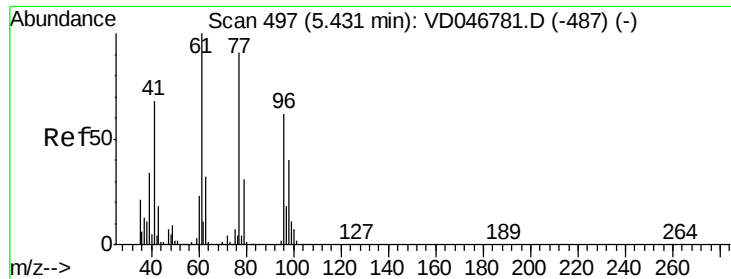
Tgt Ion: 43 Resp: 18280

Ion Ratio Lower Upper

43 100

72 18.1 13.4 20.0





#27

2,2-Dichloropropane

Concen: 10.36 ug/l

RT: 5.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

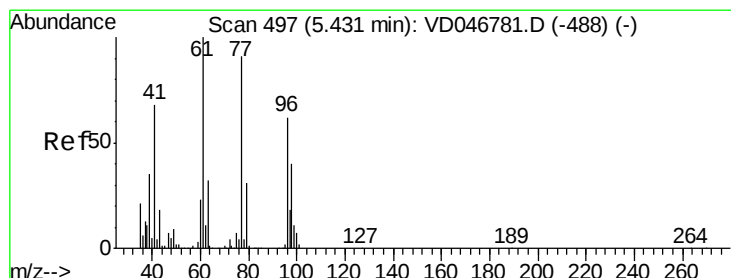
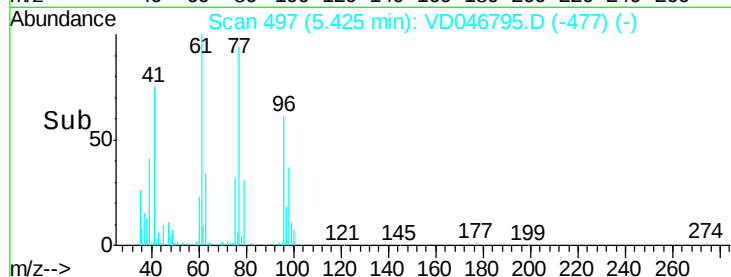
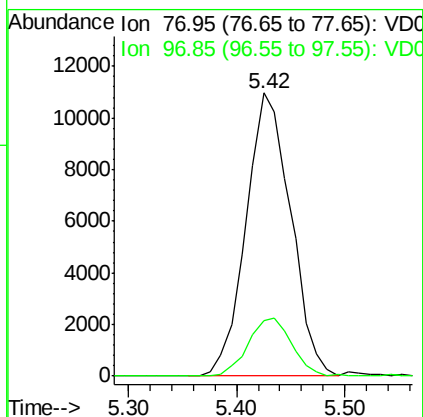
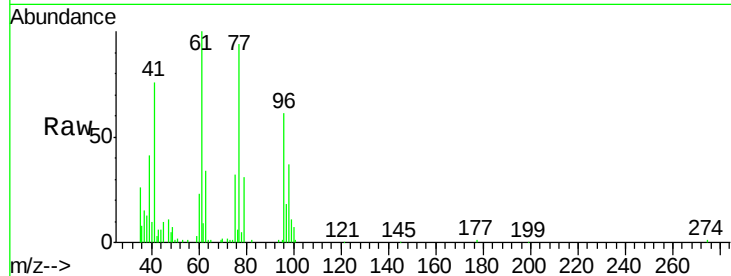
LOQ-SOIL2015-02

Tgt Ion: 77 Resp: 31462

Ion Ratio Lower Upper

77 100

97 19.4 10.4 31.1



#28

cis-1,2-Dichloroethene

Concen: 10.97 ug/l

RT: 5.43 min Scan# 498

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

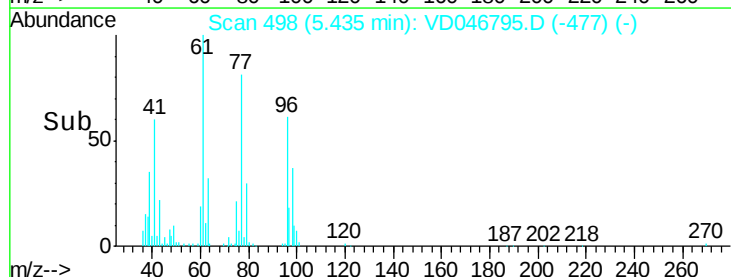
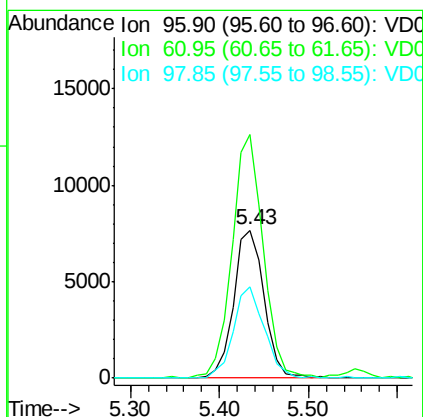
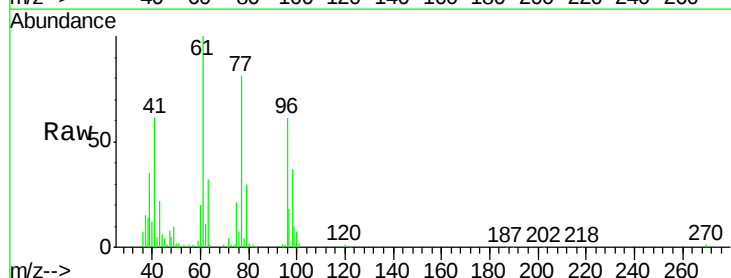
Tgt Ion: 96 Resp: 18340

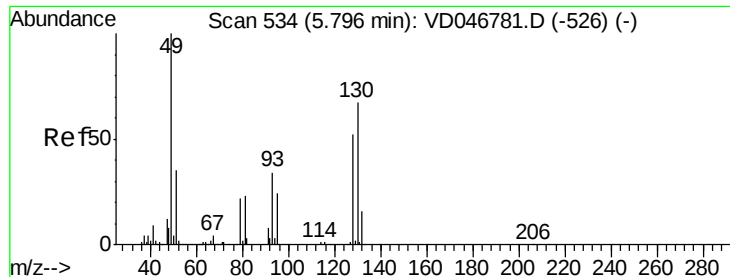
Ion Ratio Lower Upper

96 100

61 164.4 0.0 348.0

98 61.5 0.0 128.8





#29

Bromochloromethane

Concen: 11.38 ug/l

RT: 5.79 min Scan# 534

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

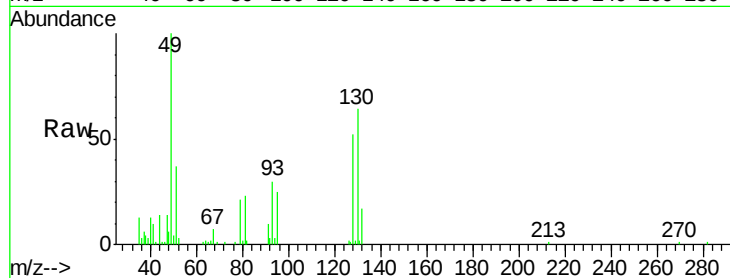
Tgt Ion: 49 Resp: 13253

Ion Ratio Lower Upper

49 100

129 1.9 0.0 2.8

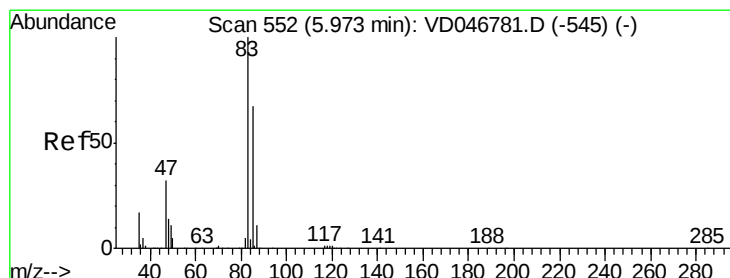
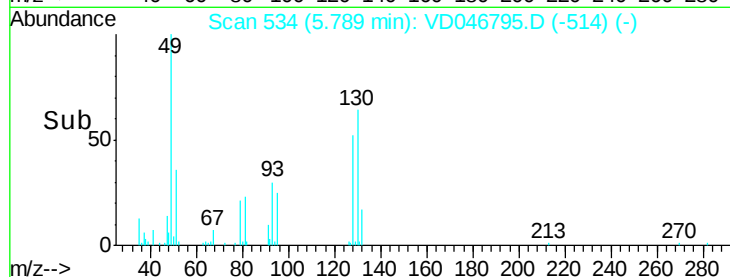
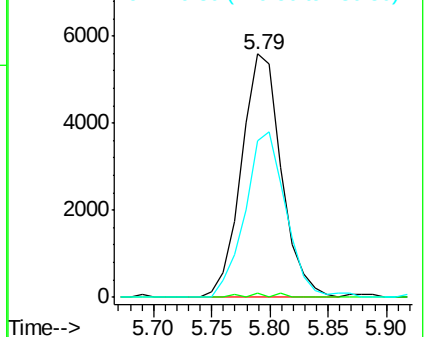
130 64.4 50.2 75.4



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: 11.41 ug/l

RT: 5.98 min Scan# 553

Delta R.T. 0.00 min

Lab File: VD046795.D

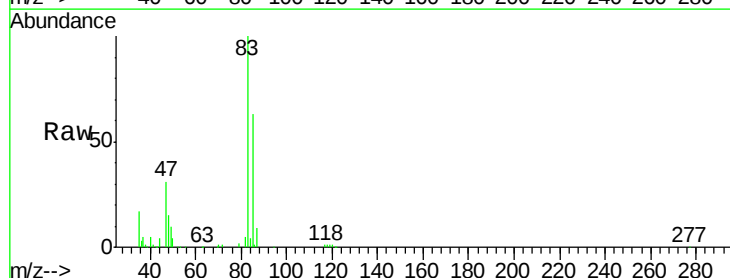
Acq: 18 Sep 2015 21:34

Tgt Ion: 83 Resp: 40890

Ion Ratio Lower Upper

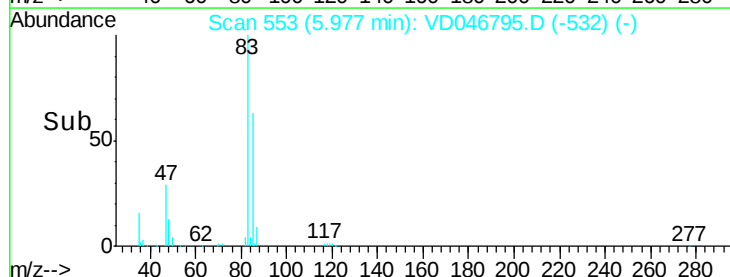
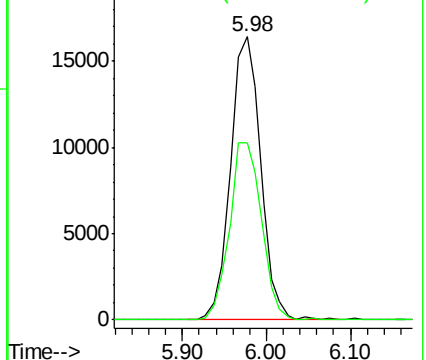
83 100

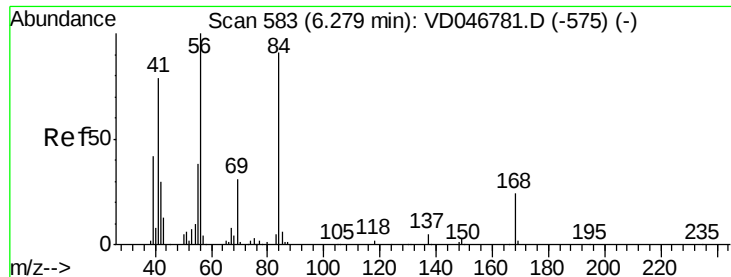
85 62.8 52.5 78.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

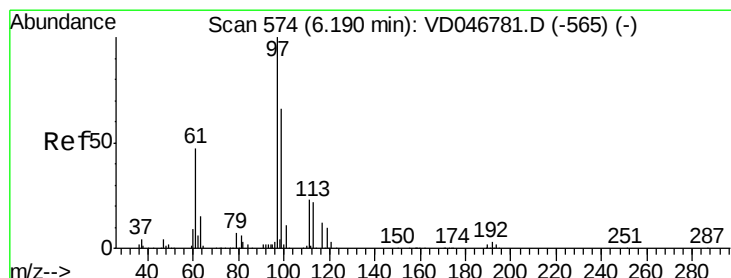
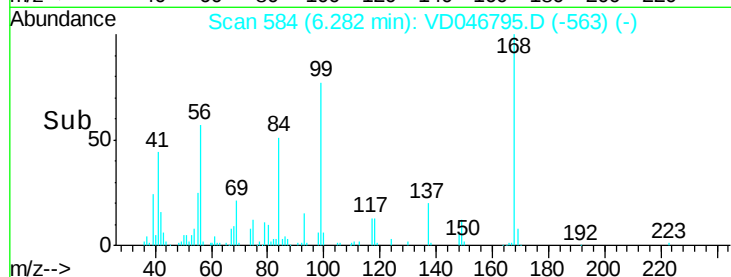
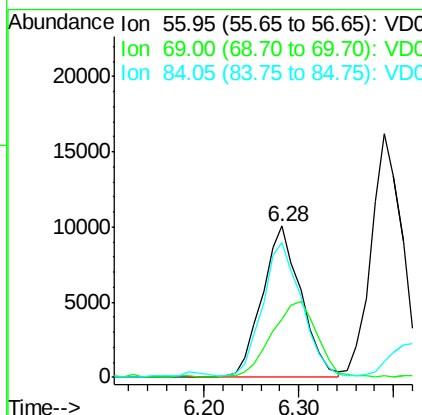
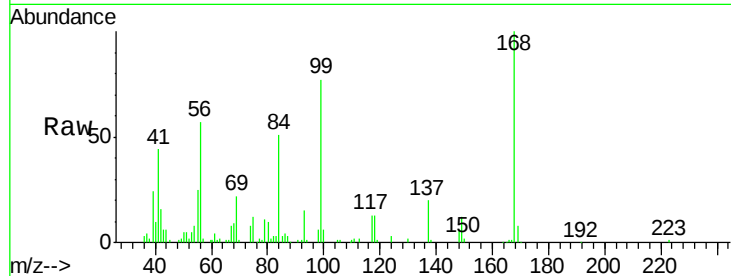




#31
Cyclohexane
Concen: 10.41 ug/l
RT: 6.28 min Scan# 584
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

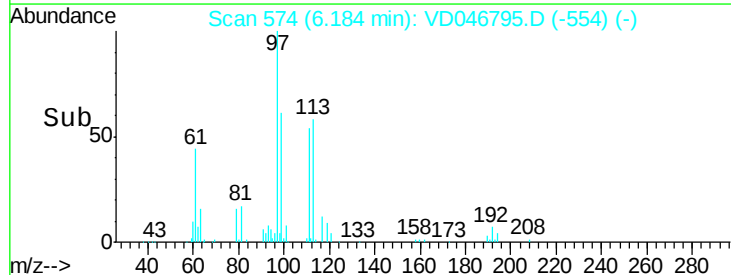
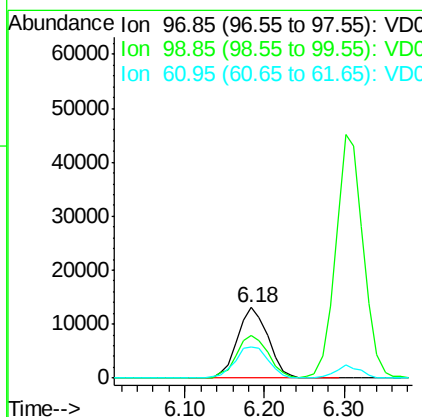
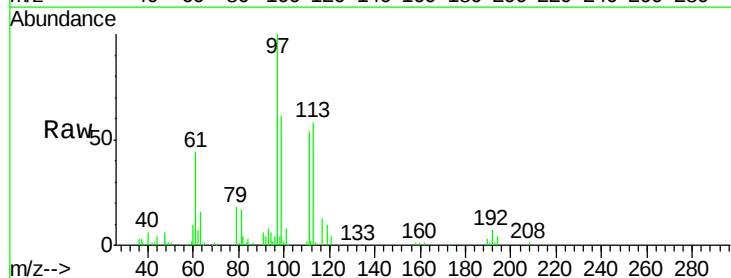
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

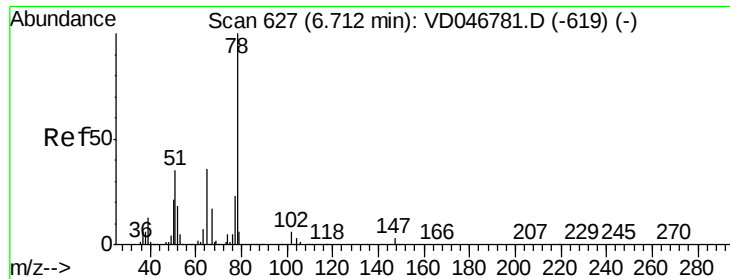
Tgt Ion: 56 Resp: 28879
Ion Ratio Lower Upper
56 100
69 38.1 23.4 35.0#
84 89.2 63.8 95.8



#32
1,1,1-Trichloroethane
Concen: 11.02 ug/l
RT: 6.18 min Scan# 574
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 97 Resp: 35175
Ion Ratio Lower Upper
97 100
99 60.7 50.2 75.4
61 44.0 38.6 57.8





#33

1,2-Dichloroethane-d4

Concen: 11.02 ug/l

RT: 6.72 min Scan# 628

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

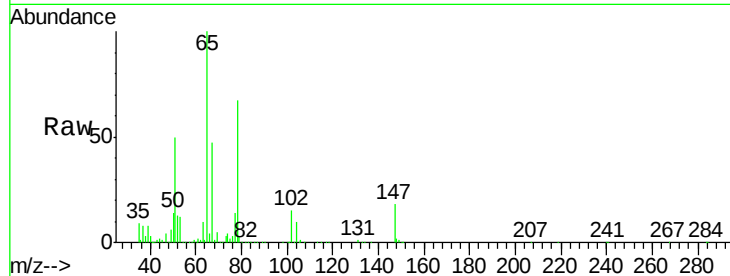
LOQ-SOIL2015-02

Tgt Ion: 65 Resp: 103399

Ion Ratio Lower Upper

65 100

67 47.0 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

40000

30000

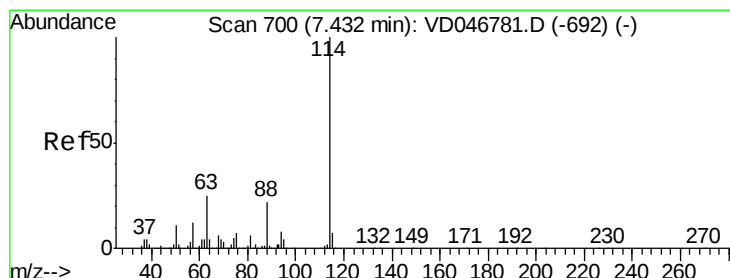
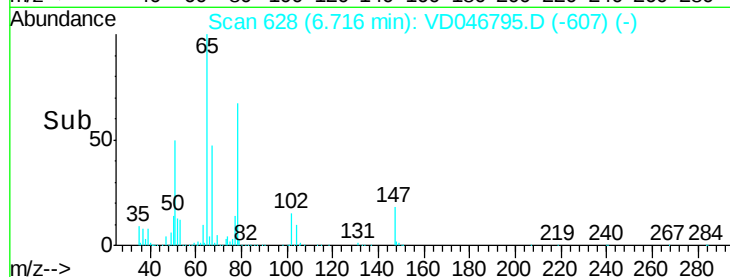
20000

10000

0

6.60 6.70 6.80

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

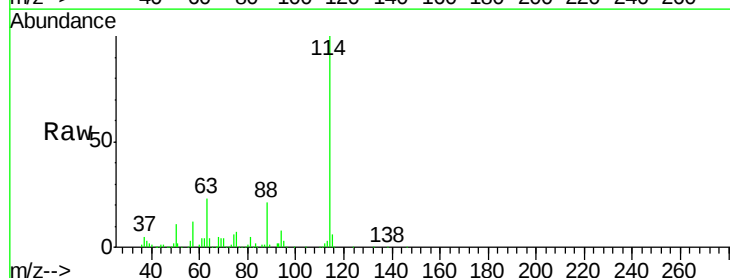
Tgt Ion: 114 Resp: 240072

Ion Ratio Lower Upper

114 100

63 23.3 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): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.44

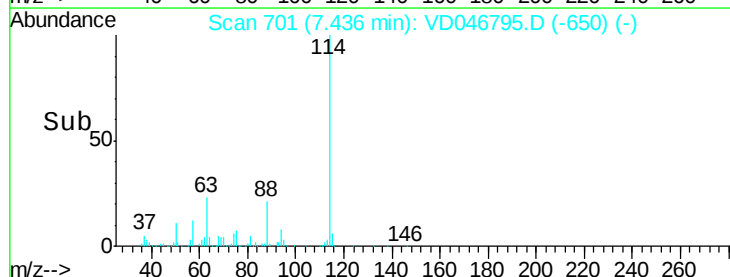
100000

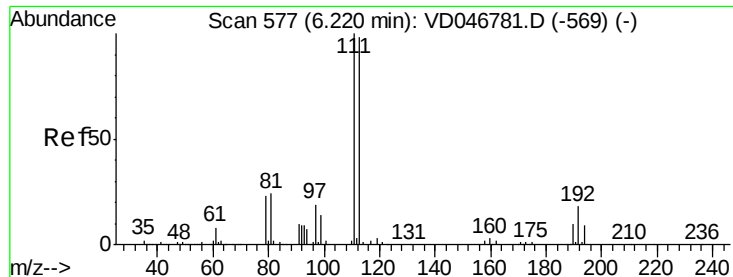
50000

0

7.30 7.40 7.50 7.60

Time-->





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.21 min Scan# 577

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

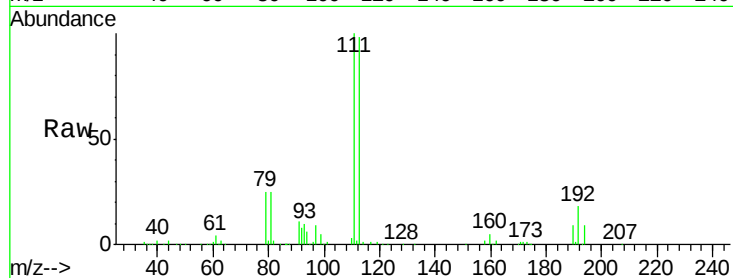
Tgt Ion: 113 Resp: 98921

Ion Ratio Lower Upper

113 100

111 101.6 79.4 119.0

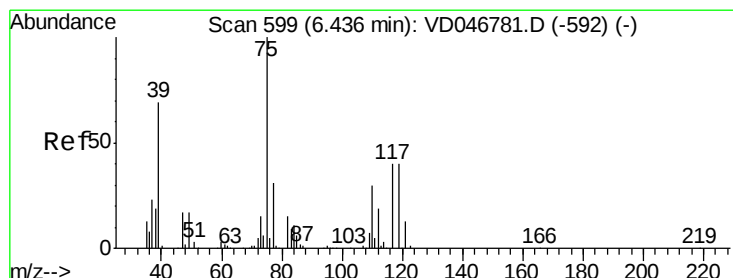
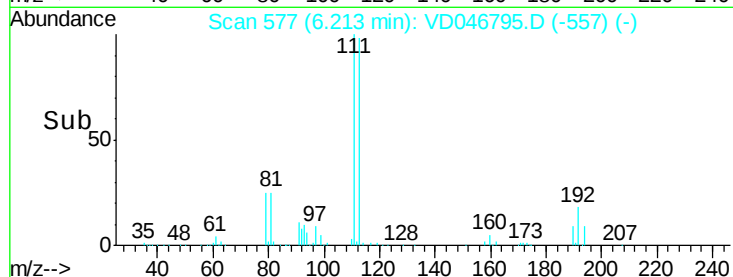
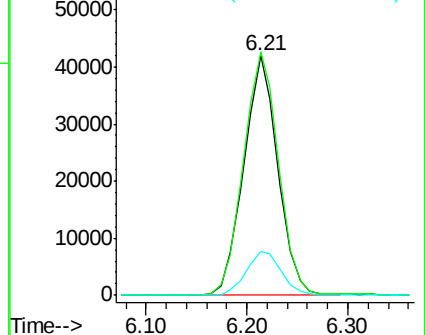
192 18.4 14.6 22.0



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: 10.32 ug/l

RT: 6.43 min Scan# 599

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

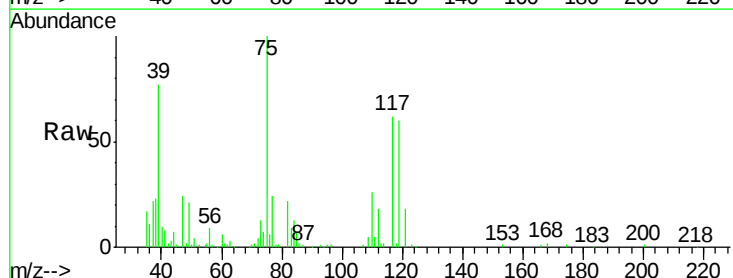
Tgt Ion: 75 Resp: 28952

Ion Ratio Lower Upper

75 100

110 26.1 13.7 41.0

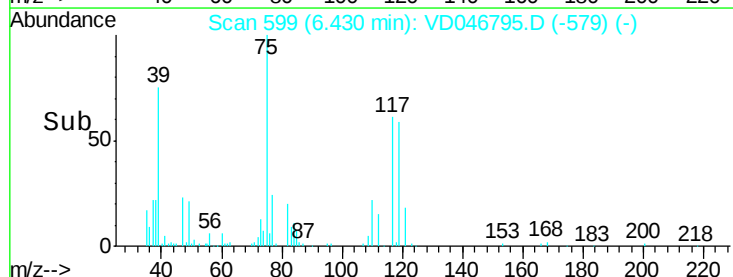
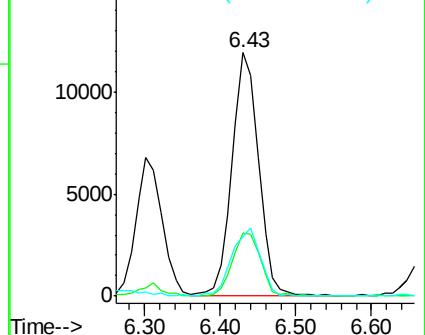
77 24.3 24.7 37.1#

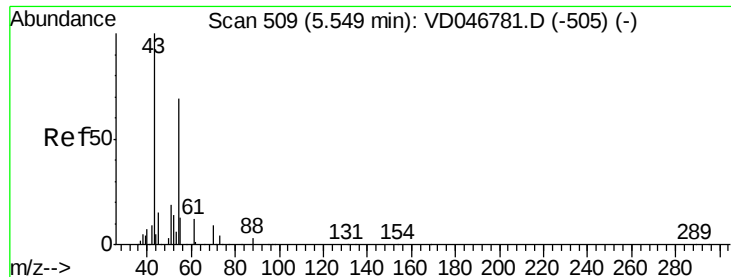


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

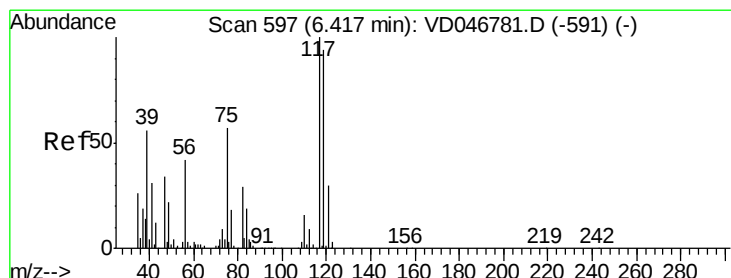
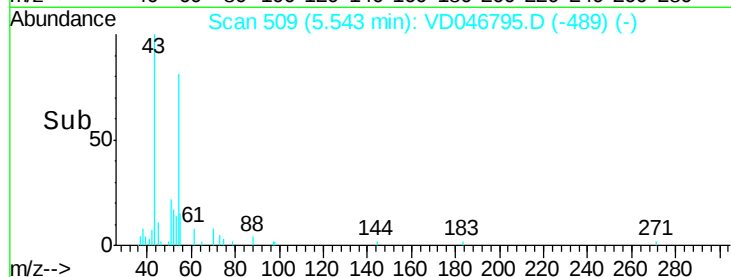
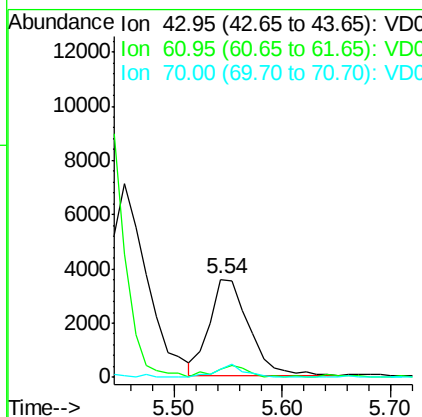
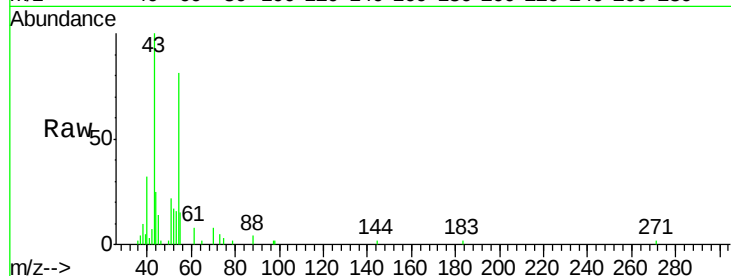




#37
Ethyl Acetate
Concen: 10.10 ug/l
RT: 5.54 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

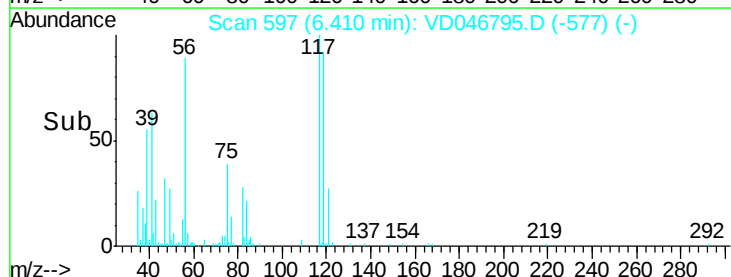
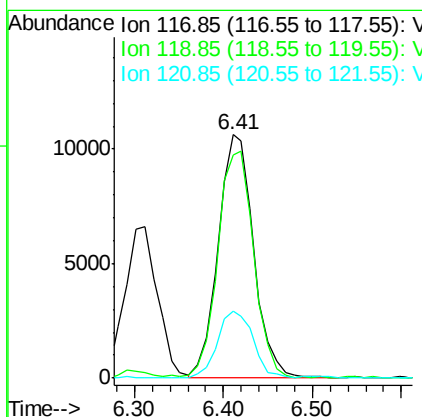
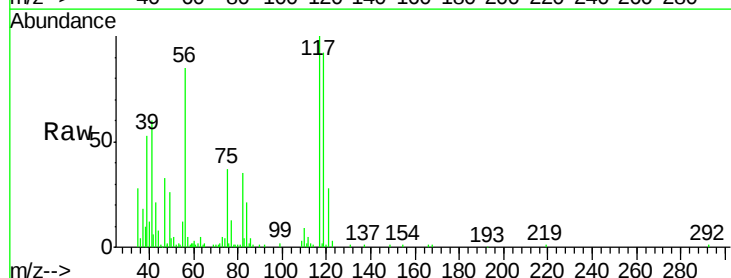
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

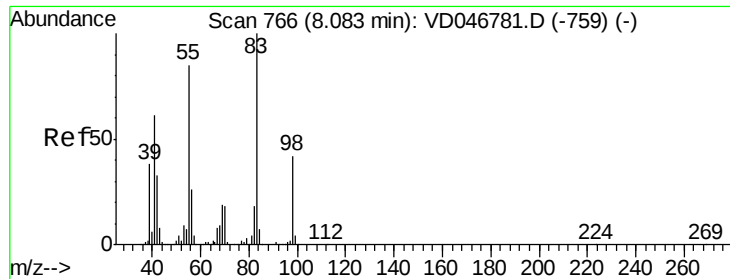
Tgt Ion: 43 Resp: 9100
Ion Ratio Lower Upper
43 100
61 8.0 9.4 14.2#
70 8.4 6.0 9.0



#38
Carbon Tetrachloride
Concen: 10.16 ug/l
RT: 6.41 min Scan# 597
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 117 Resp: 29627
Ion Ratio Lower Upper
117 100
119 91.7 76.2 114.4
121 27.7 24.5 36.7





#39

Methylcyclohexane

Concen: 8.68 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

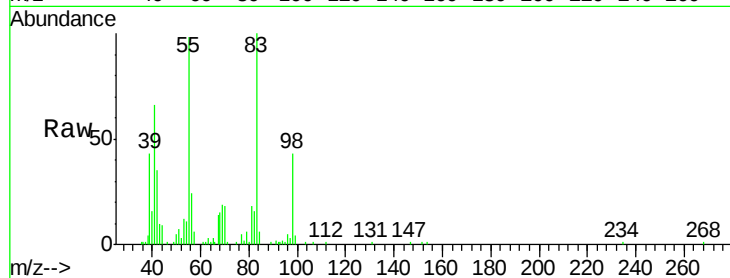
Tgt Ion: 83 Resp: 24667

Ion Ratio Lower Upper

83 100

55 98.2 71.1 106.7

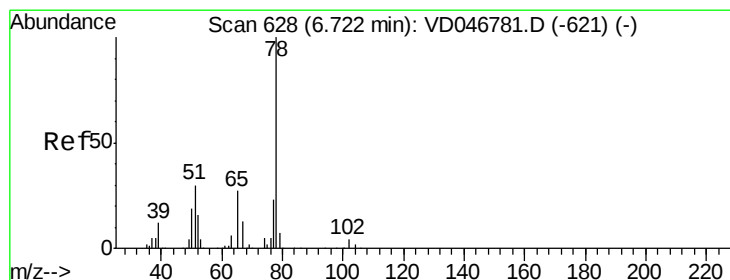
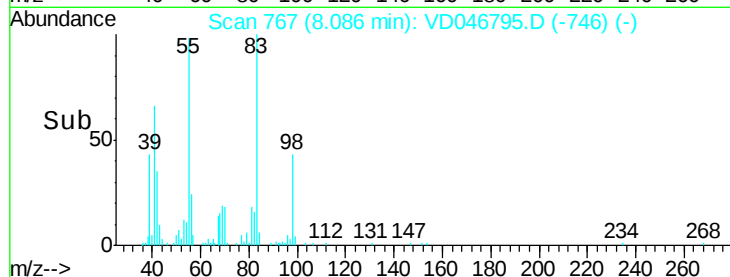
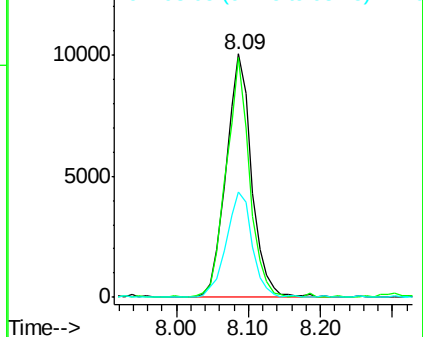
98 43.4 34.6 51.8



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: 10.82 ug/l

RT: 6.73 min Scan# 629

Delta R.T. 0.00 min

Lab File: VD046795.D

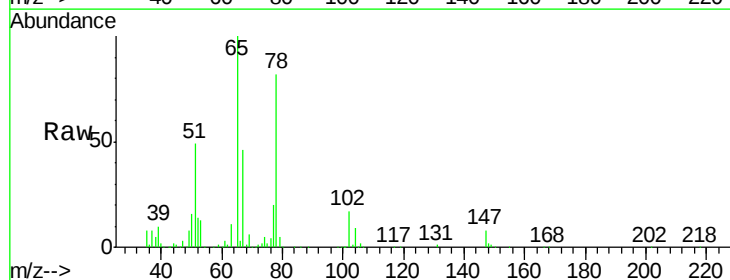
Acq: 18 Sep 2015 21:34

Tgt Ion: 78 Resp: 77458

Ion Ratio Lower Upper

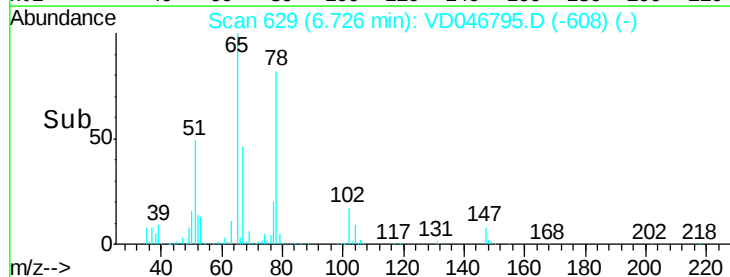
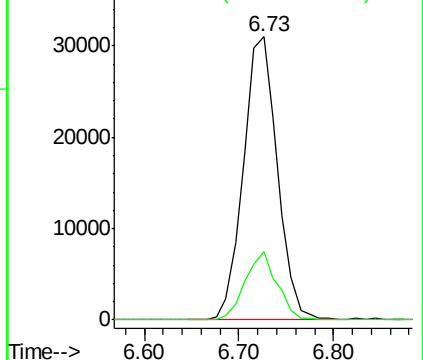
78 100

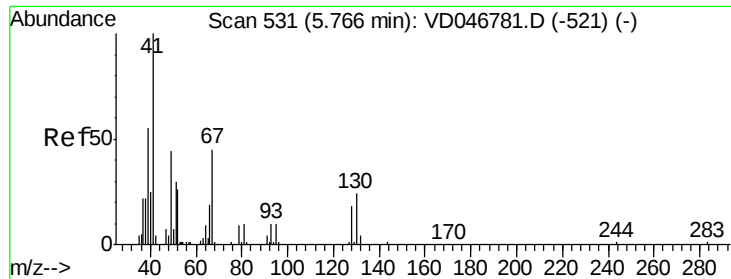
77 24.1 19.9 29.9



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 9.81 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion: 41 Resp: 4959

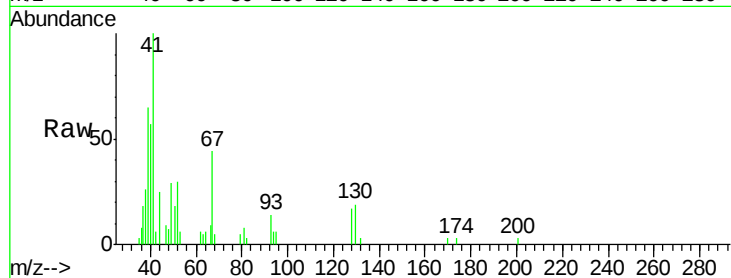
Ion Ratio Lower Upper

41 100

39 65.2 40.2 60.4#

67 43.9 32.0 48.0

52 29.5 13.8 20.8#

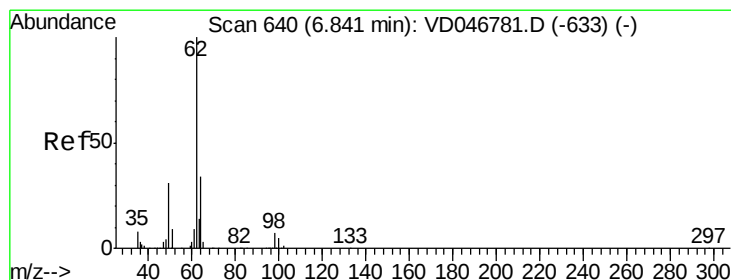
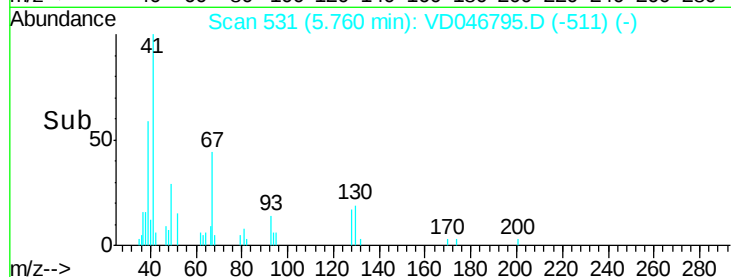
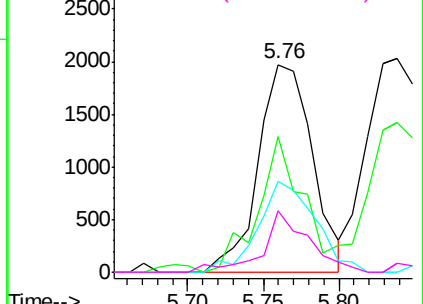


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 10.62 ug/l

RT: 6.83 min Scan# 640

Delta R.T. -0.01 min

Lab File: VD046795.D

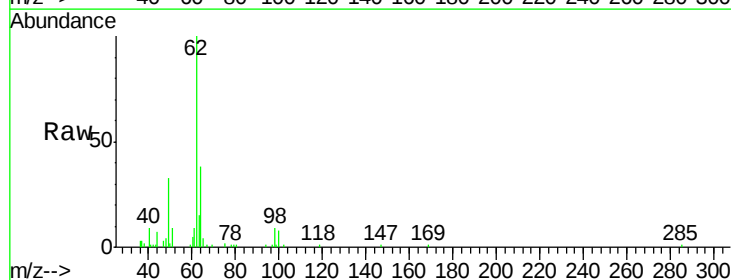
Acq: 18 Sep 2015 21:34

Tgt Ion: 62 Resp: 23625

Ion Ratio Lower Upper

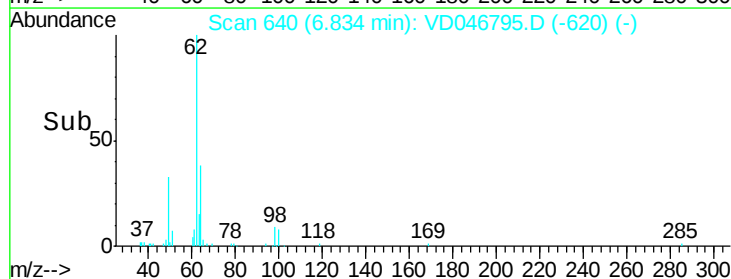
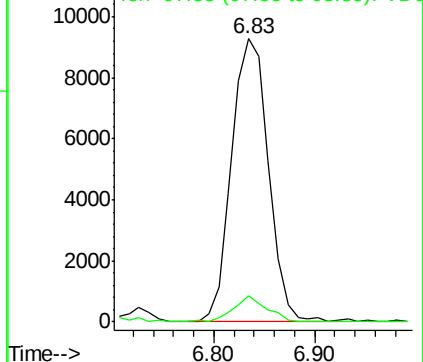
62 100

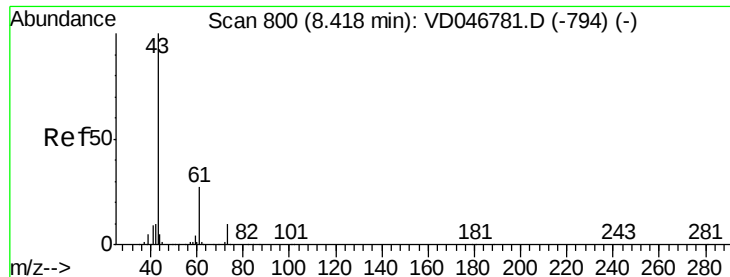
98 9.3 0.0 16.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 8.97 ug/l

RT: 8.41 min Scan# 800

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

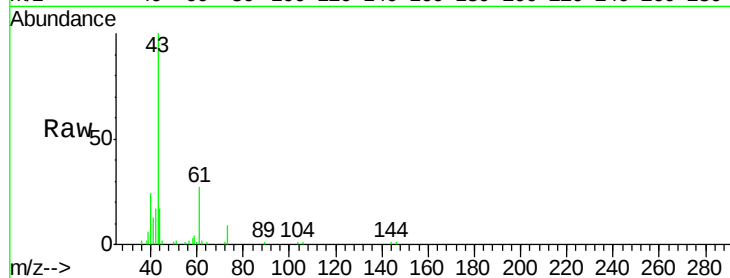
Tgt Ion: 43 Resp: 10653

Ion Ratio Lower Upper

43 100

61 27.1 19.5 29.3

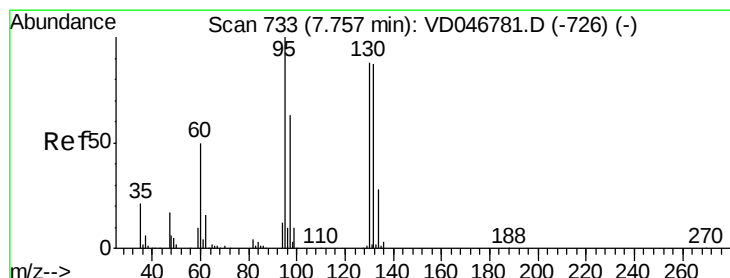
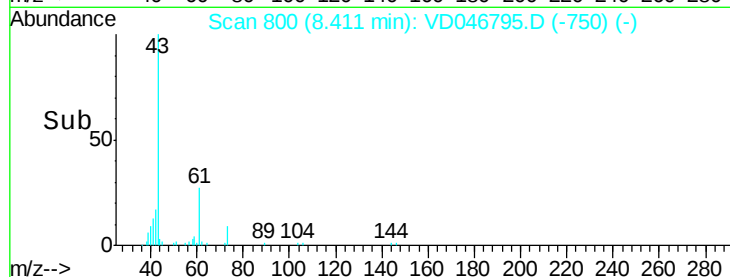
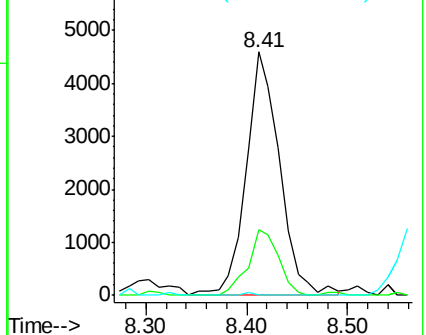
87 0.0 0.2 0.2#



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: 10.11 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VD046795.D

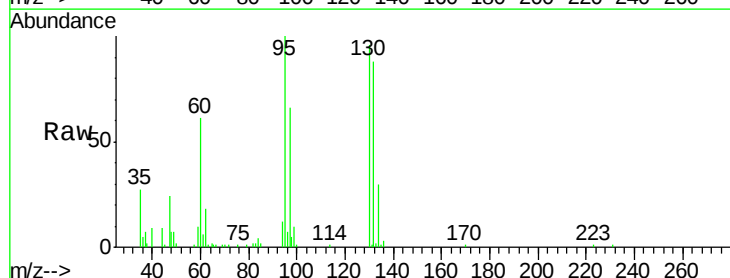
Acq: 18 Sep 2015 21:34

Tgt Ion: 130 Resp: 18122

Ion Ratio Lower Upper

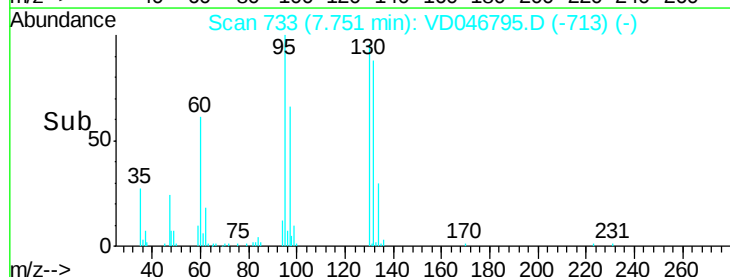
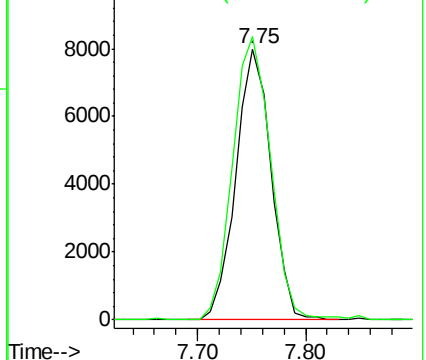
130 100

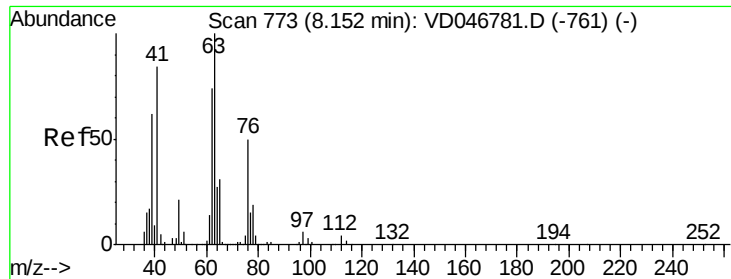
95 104.6 0.0 229.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 10.72 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

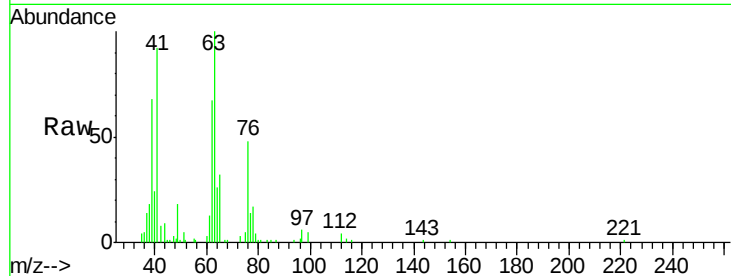
LOQ-SOIL2015-02

Tgt Ion: 63 Resp: 19019

Ion Ratio Lower Upper

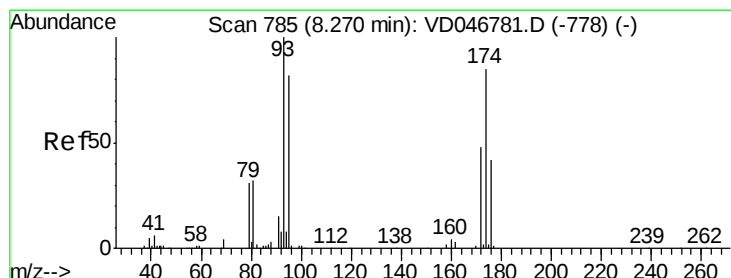
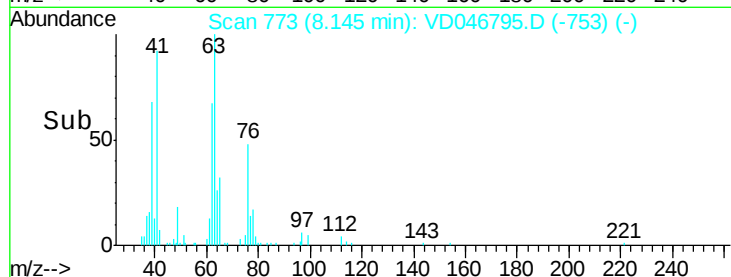
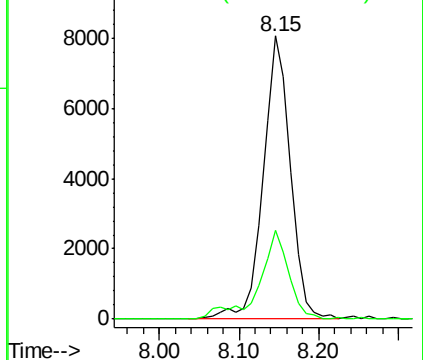
63 100

65 31.6 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: 10.82 ug/l

RT: 8.27 min Scan# 786

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

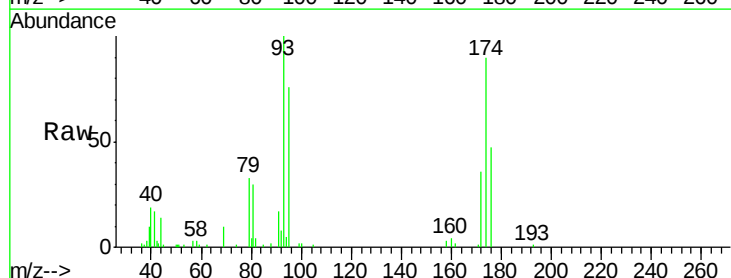
Tgt Ion: 93 Resp: 10904

Ion Ratio Lower Upper

93 100

95 75.6 70.2 105.2

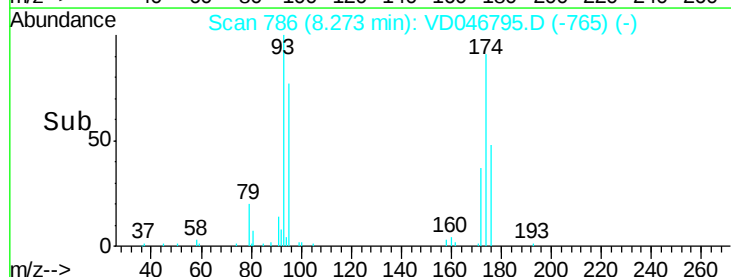
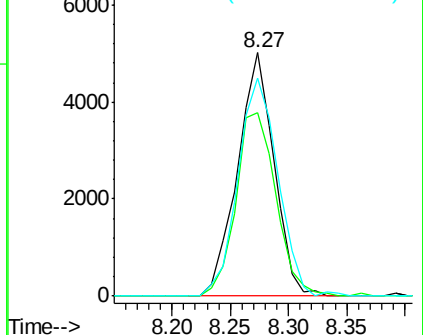
174 89.8 79.0 118.4

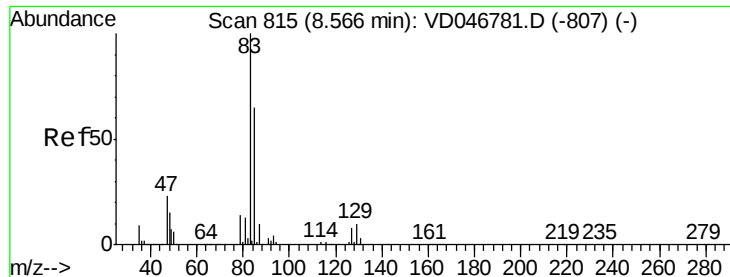


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 10.37 ug/l

RT: 8.57 min Scan# 816

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

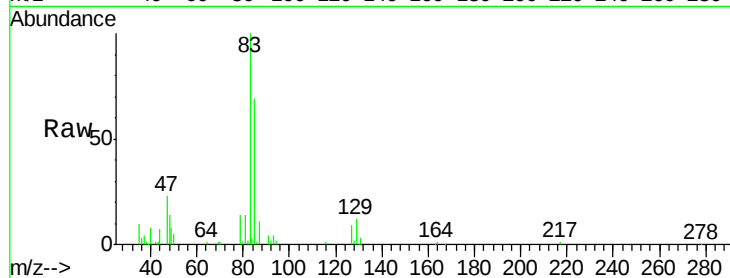
Tgt Ion: 83 Resp: 27409

Ion Ratio Lower Upper

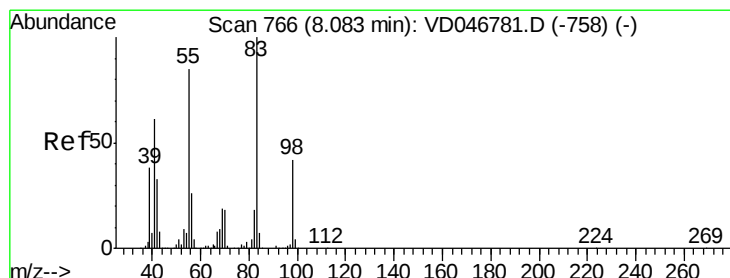
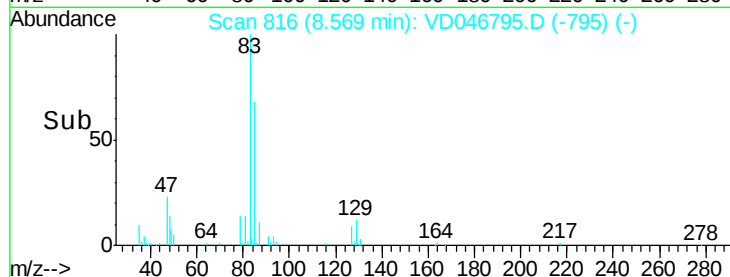
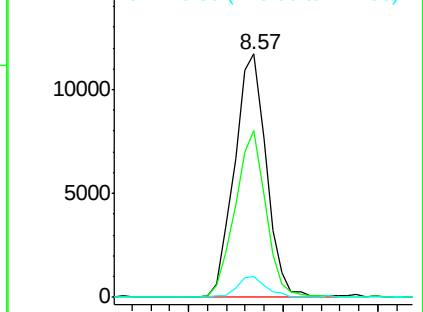
83 100

85 68.7 52.6 78.8

127 8.6 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: 9.22 ug/l

RT: 8.09 min Scan# 767

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

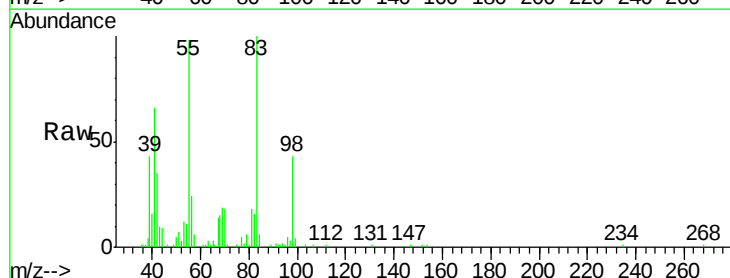
Tgt Ion: 41 Resp: 16754

Ion Ratio Lower Upper

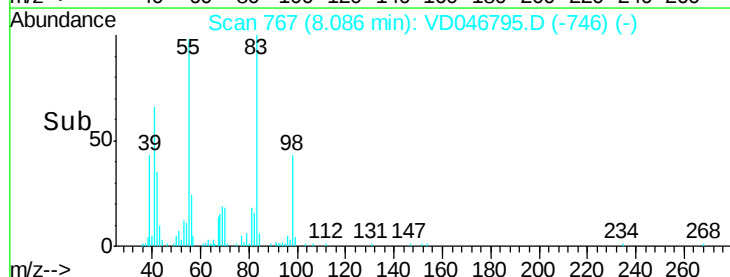
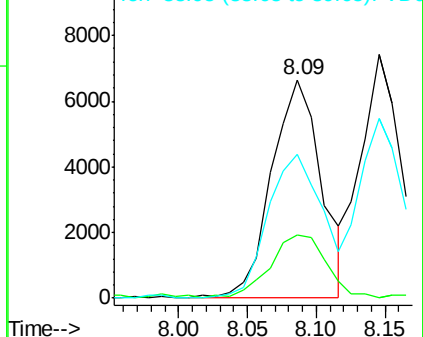
41 100

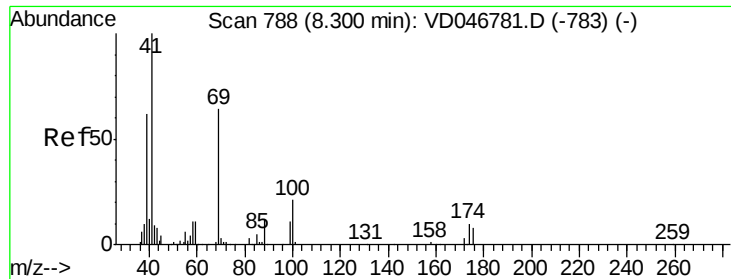
69 28.9 25.3 37.9

39 65.6 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

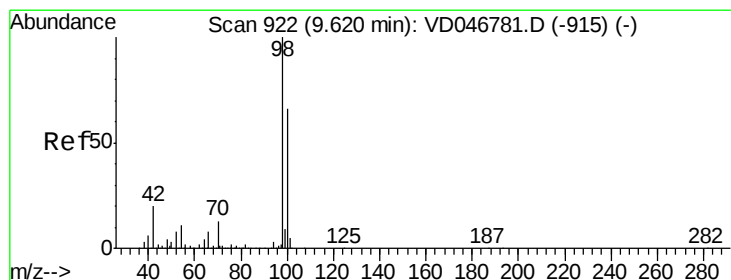
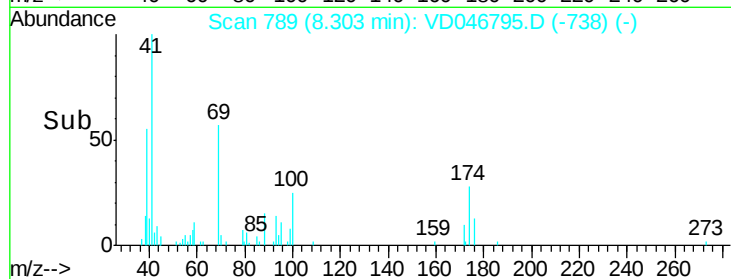
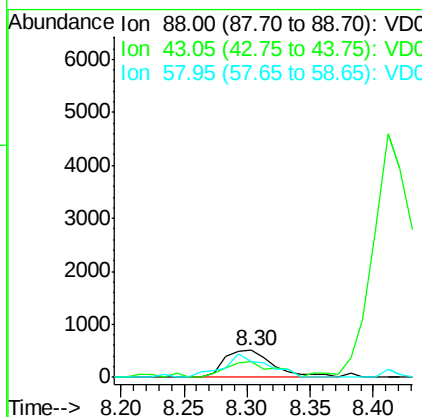
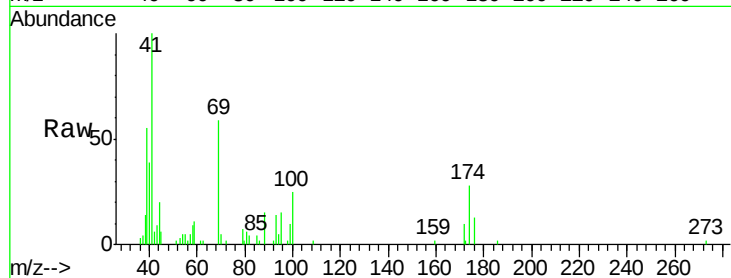




#49
1,4-Dioxane
Concen: 208.67 ug/l
RT: 8.30 min Scan# 789
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

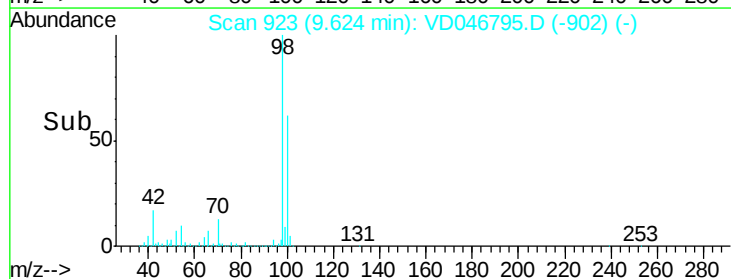
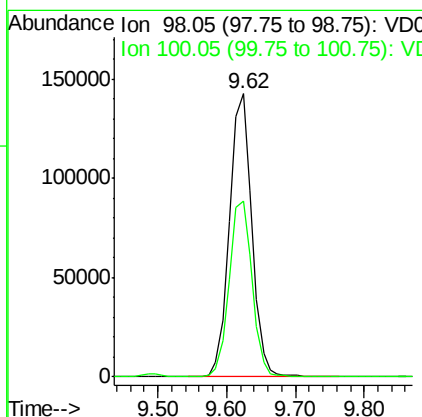
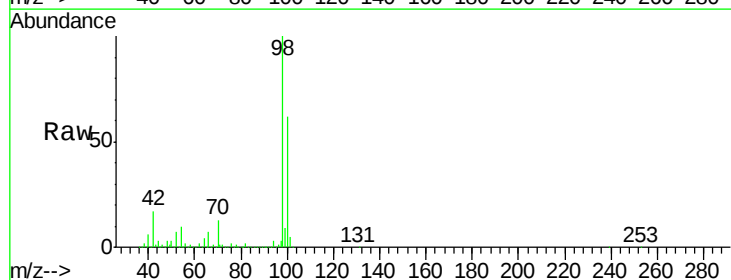
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

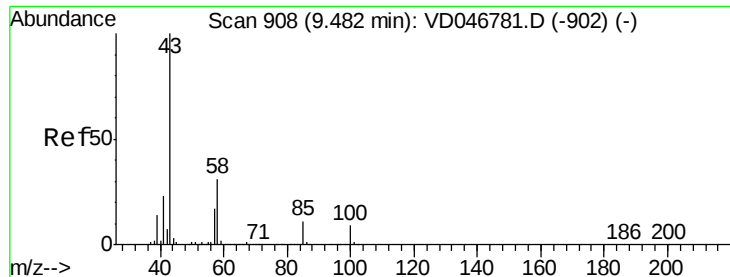
Tgt Ion: 88 Resp: 1402
Ion Ratio Lower Upper
88 100
43 58.2 50.0 75.0
58 56.9 48.3 72.5



#50
Toluene-d8
Concen: 208.67 ug/l
RT: 9.62 min Scan# 923
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 98 Resp: 321263
Ion Ratio Lower Upper
98 100
100 62.1 49.9 74.9

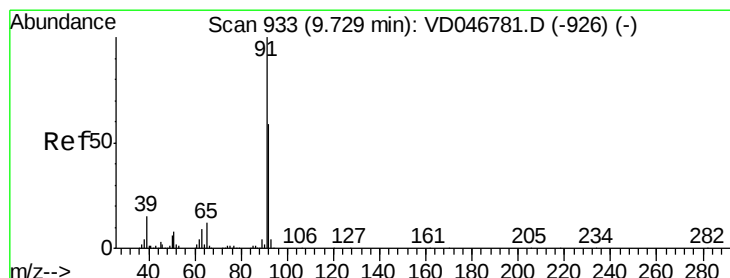
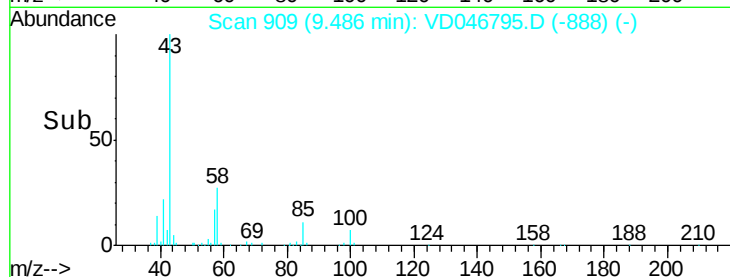
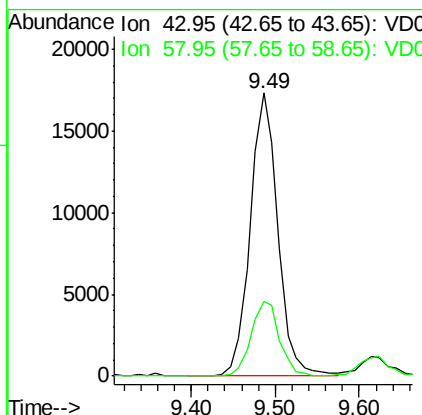
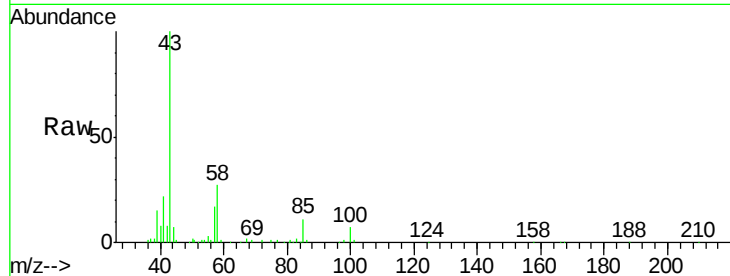




#51
 4-Methyl-2-Pentanone
 Concen: 46.63 ug/l
 RT: 9.49 min Scan# 909
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

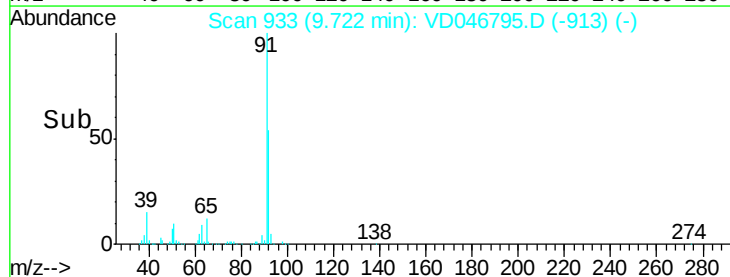
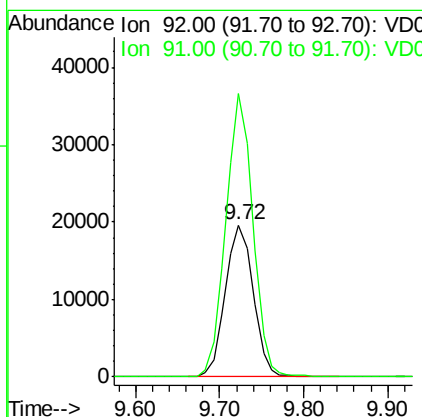
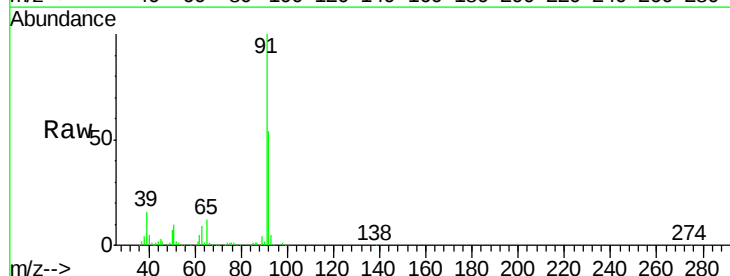
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

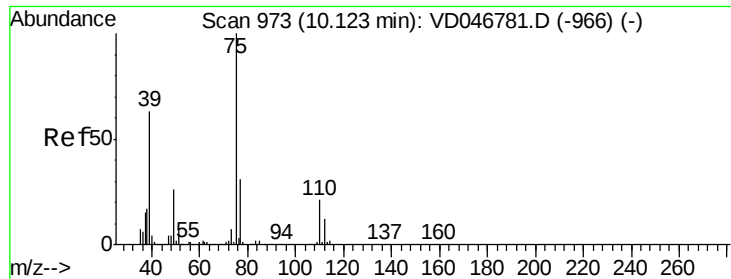
Tgt Ion: 43 Resp: 40031
 Ion Ratio Lower Upper
 43 100
 58 26.6 22.2 33.2



#52
 Toluene
 Concen: 10.33 ug/l
 RT: 9.72 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion: 92 Resp: 45623
 Ion Ratio Lower Upper
 92 100
 91 186.0 139.4 209.0

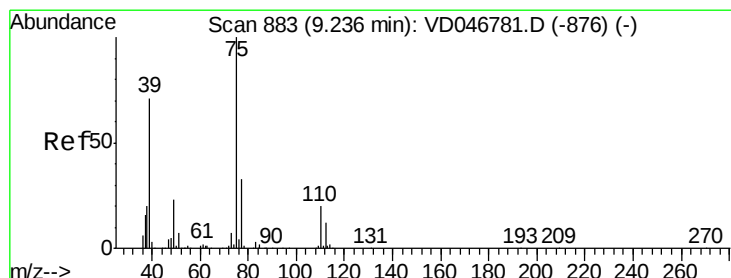
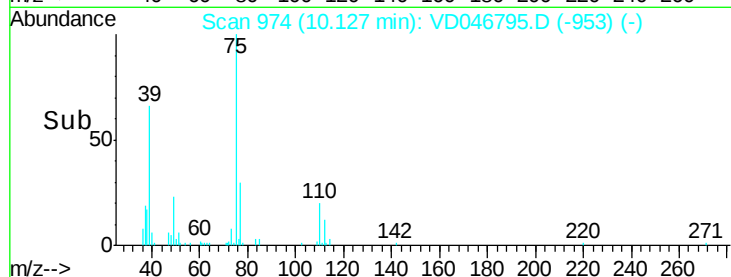
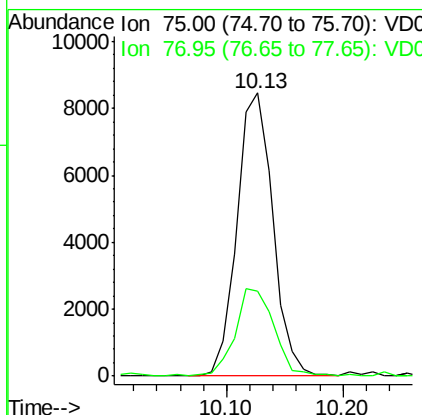
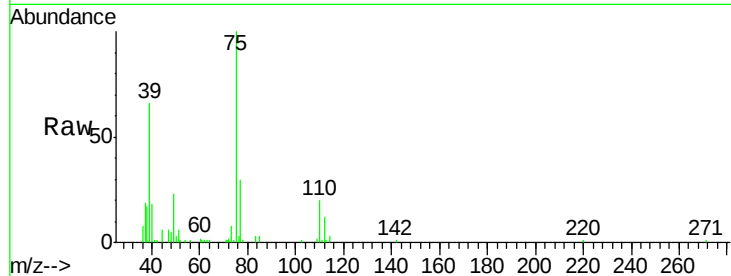




#53
 t-1,3-Dichloropropene
 Concen: 9.24 ug/l
 RT: 10.13 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

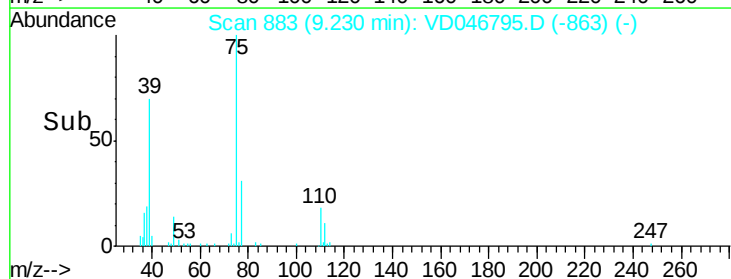
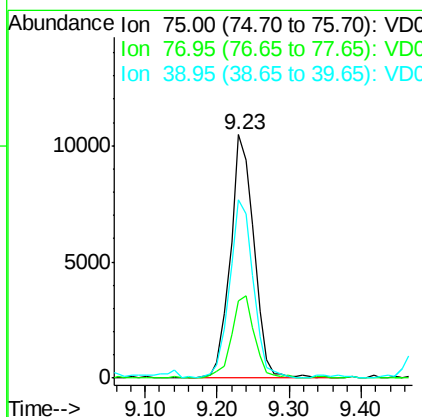
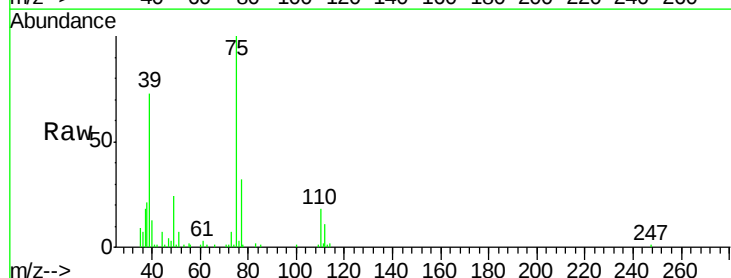
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

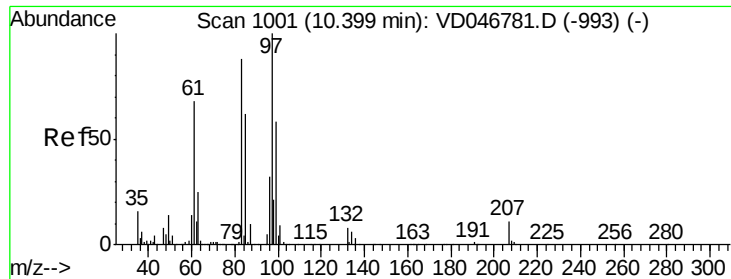
Tgt Ion: 75 Resp: 18034
 Ion Ratio Lower Upper
 75 100
 77 30.1 27.6 41.4



#54
 cis-1,3-Dichloropropene
 Concen: 9.53 ug/l
 RT: 9.23 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion: 75 Resp: 23951
 Ion Ratio Lower Upper
 75 100
 77 31.9 23.8 35.6
 39 73.0 53.0 79.6





#55

1,1,2-Trichloroethane

Concen: 11.02 ug/l

RT: 10.40 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

Tgt Ion: 97 Resp: 12601

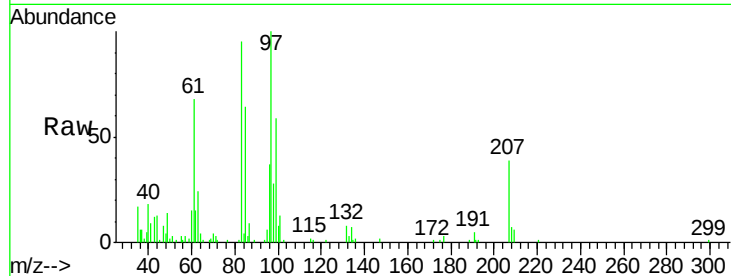
Ion Ratio Lower Upper

97 100

83 95.3 75.3 112.9

85 64.0 50.9 76.3

99 59.2 46.9 70.3

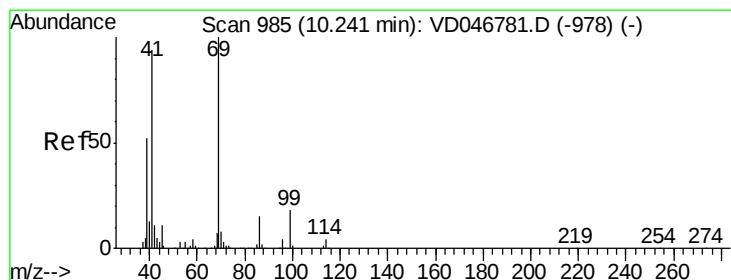
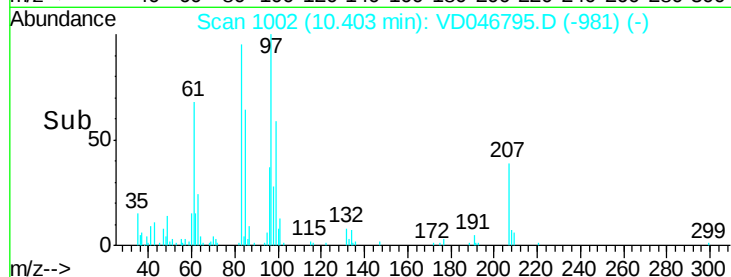
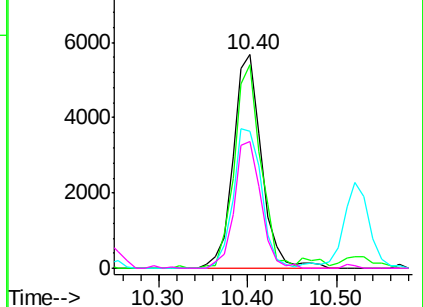


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 10.12 ug/l

RT: 10.24 min Scan# 986

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

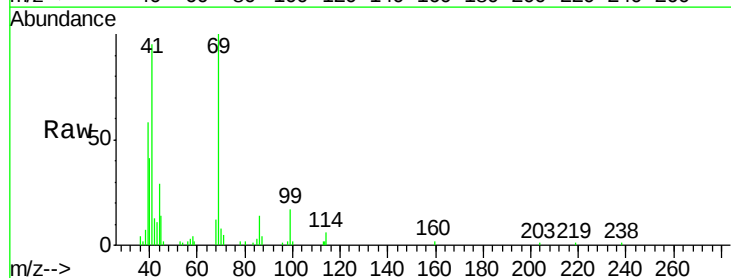
Tgt Ion: 69 Resp: 8035

Ion Ratio Lower Upper

69 100

41 95.2 75.4 113.0

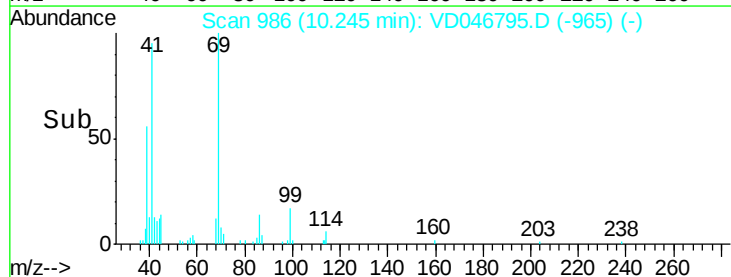
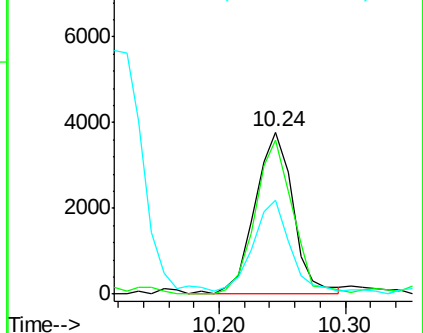
39 57.9 41.0 61.4

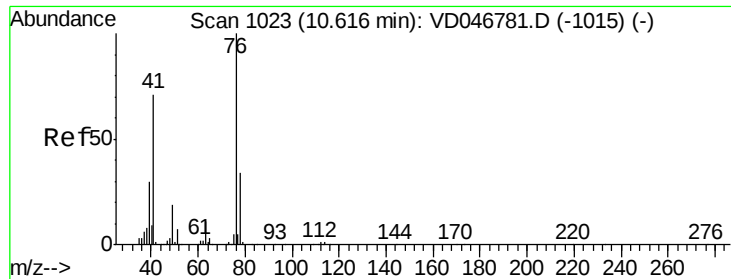


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 10.19 ug/l

RT: 10.61 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

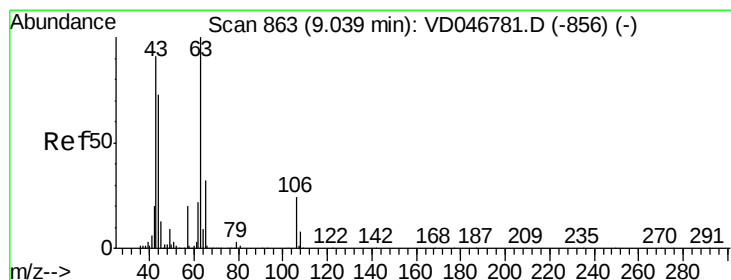
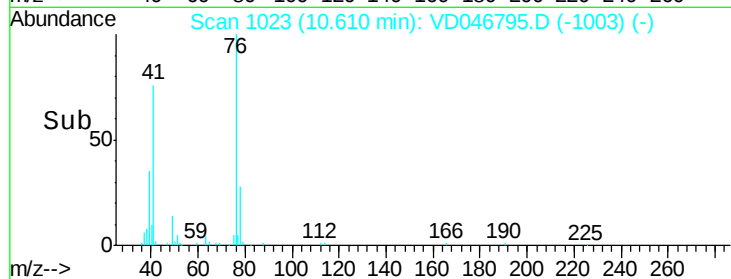
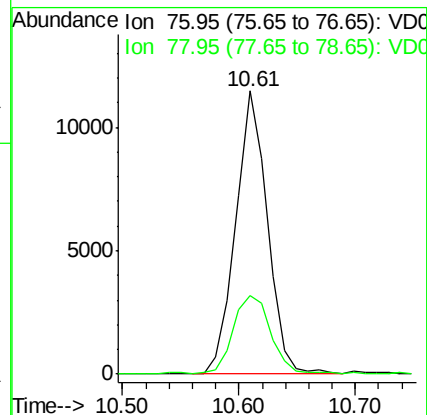
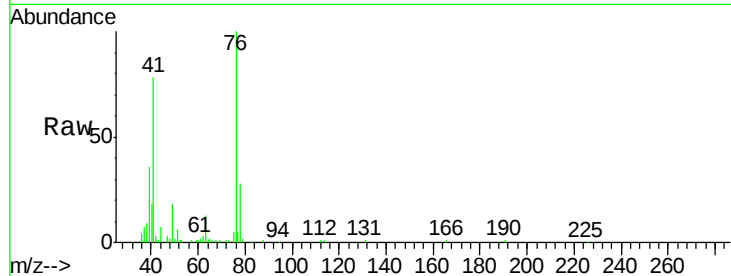
LOQ-SOIL2015-02

Tgt Ion: 76 Resp: 21667

Ion Ratio Lower Upper

76 100

78 27.9 26.6 39.8



#58

2-Chloroethyl Vinyl ether

Concen: 44.29 ug/l

RT: 9.03 min Scan# 863

Delta R.T. -0.01 min

Lab File: VD046795.D

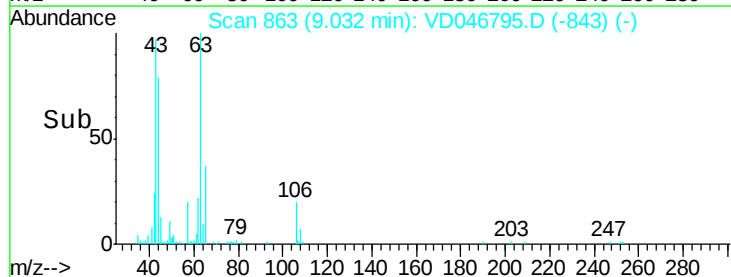
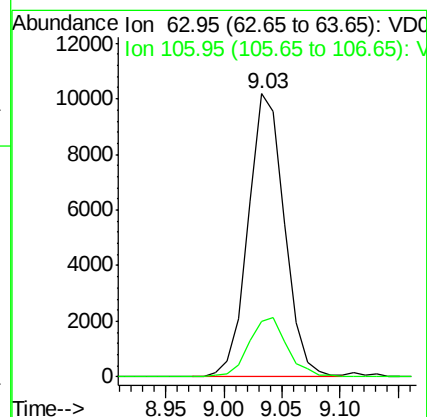
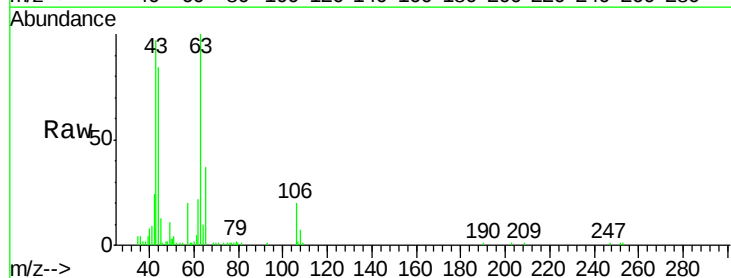
Acq: 18 Sep 2015 21:34

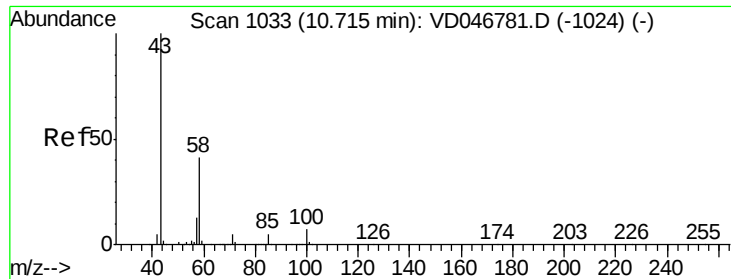
Tgt Ion: 63 Resp: 21970

Ion Ratio Lower Upper

63 100

106 19.8 17.8 26.8

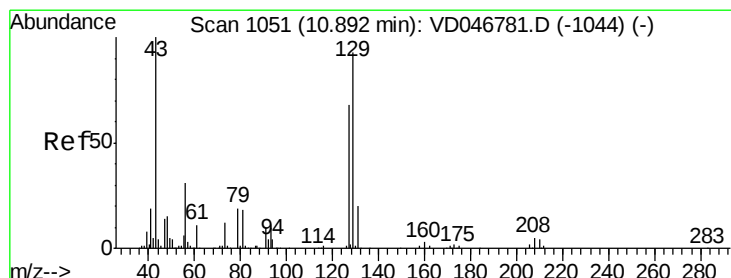
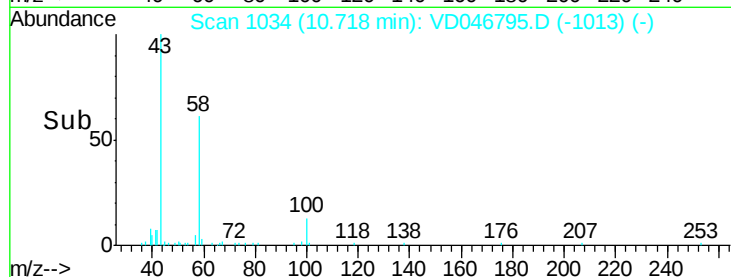
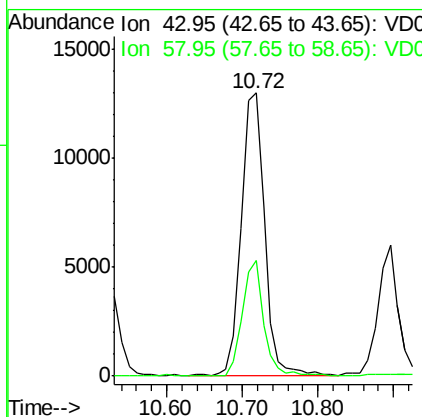
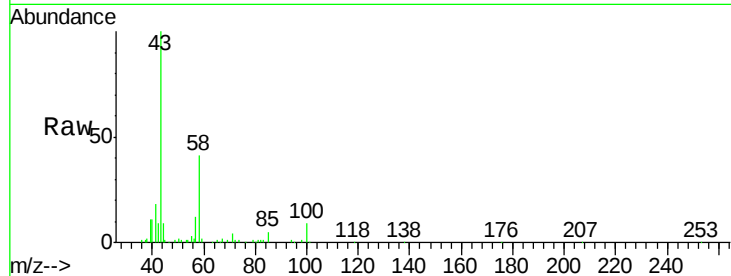




#59
2-Hexanone
Concen: 44.99 ug/l
RT: 10.72 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

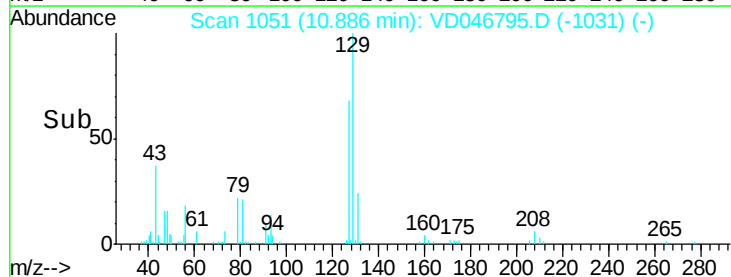
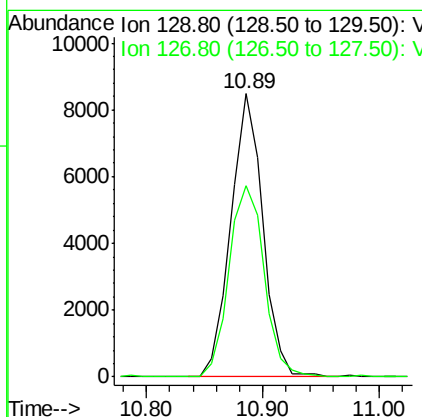
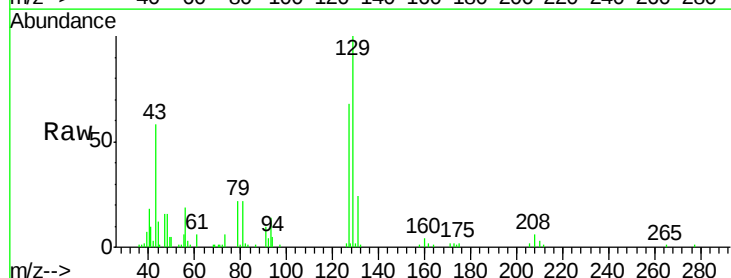
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

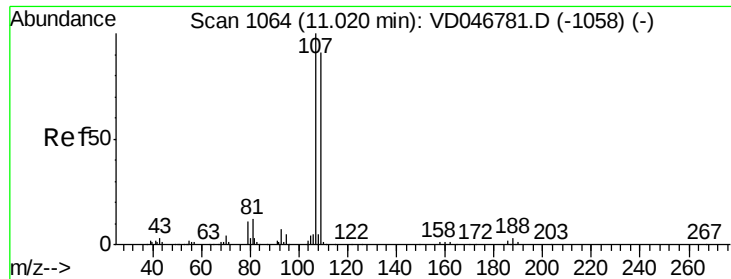
Tgt Ion: 43 Resp: 27902
Ion Ratio Lower Upper
43 100
58 40.9 18.6 55.8



#60
Dibromochloromethane
Concen: 10.30 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 129 Resp: 16167
Ion Ratio Lower Upper
129 100
127 67.6 38.2 114.6





#61

1,2-Dibromoethane

Concen: 10.52 ug/l

RT: 11.02 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

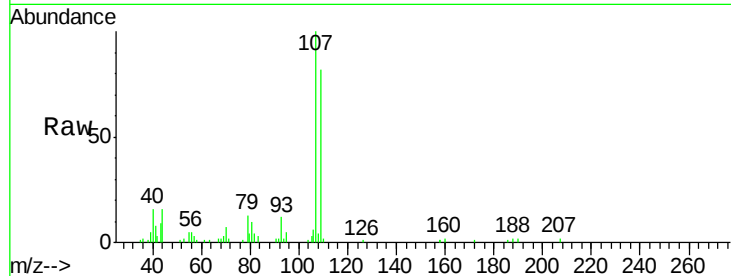
LOQ-SOIL2015-02

Tgt Ion: 107 Resp: 11881

Ion Ratio Lower Upper

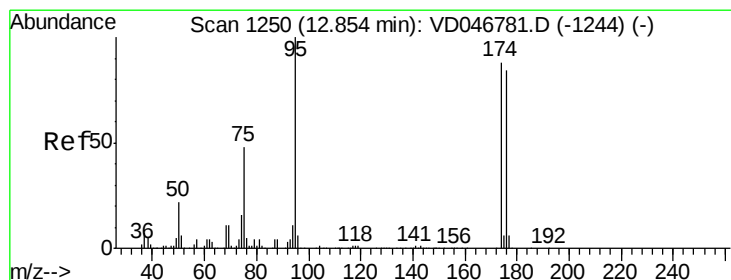
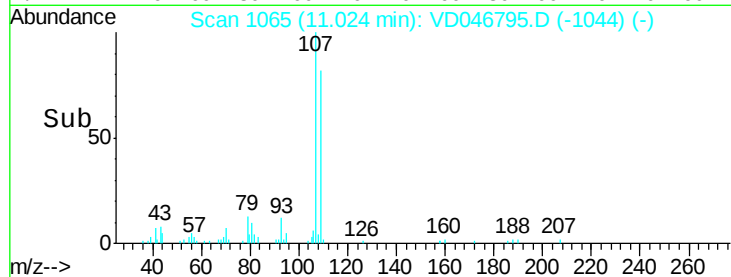
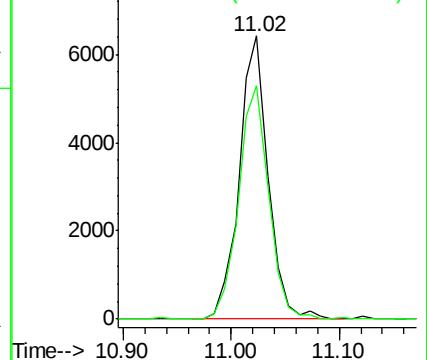
107 100

109 82.5 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: 10.52 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

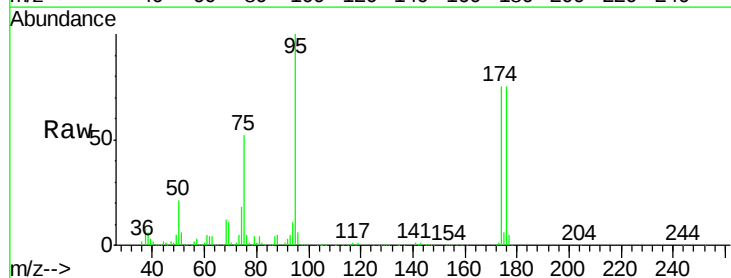
Tgt Ion: 95 Resp: 126272

Ion Ratio Lower Upper

95 100

174 75.1 0.0 149.8

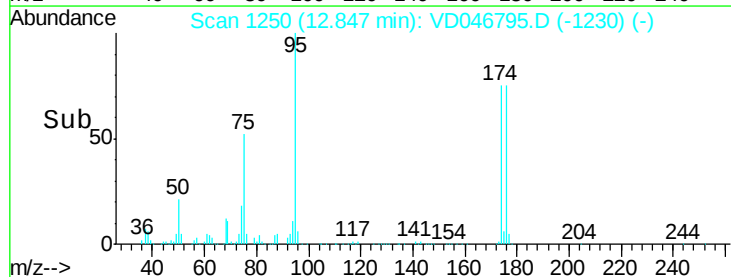
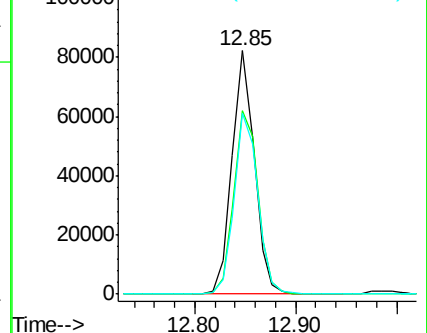
176 74.5 0.0 143.4

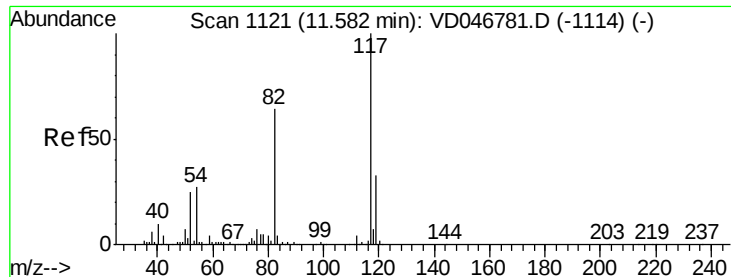


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

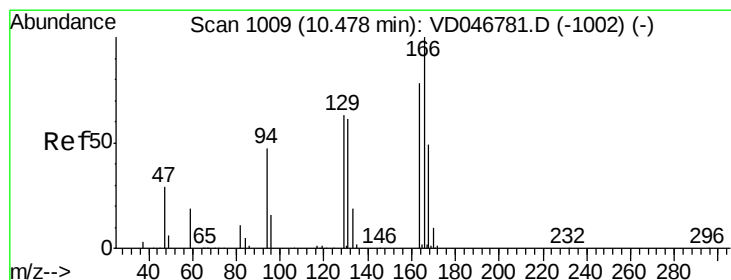
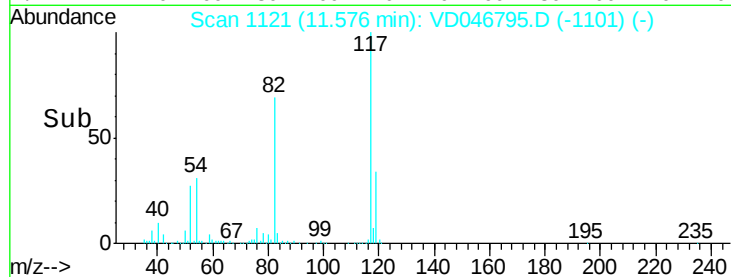
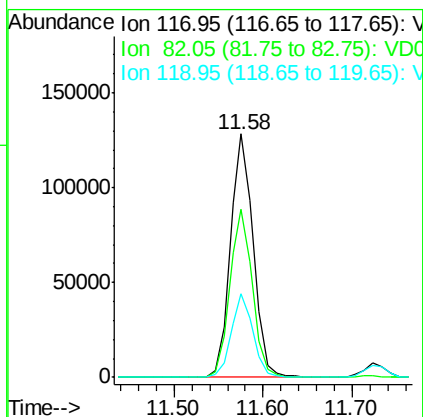
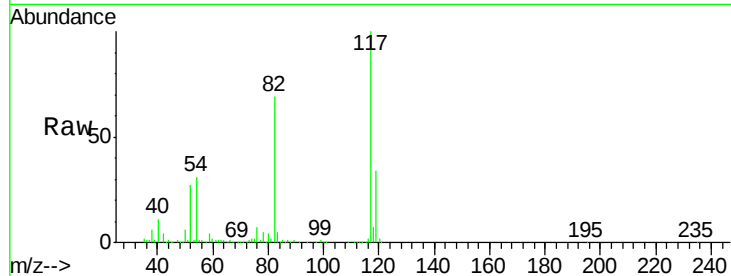




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

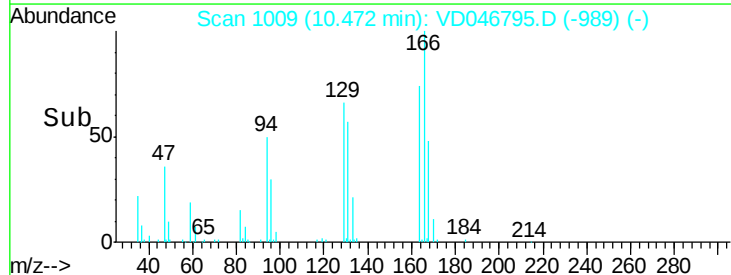
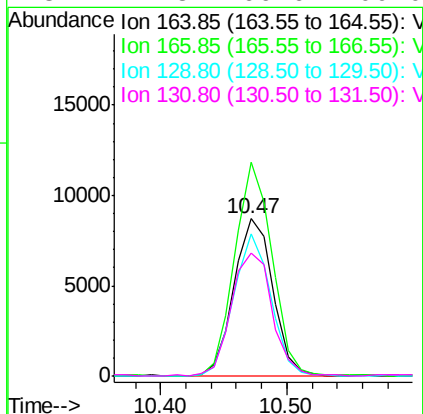
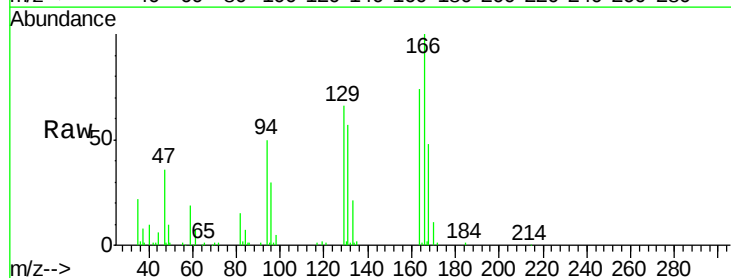
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

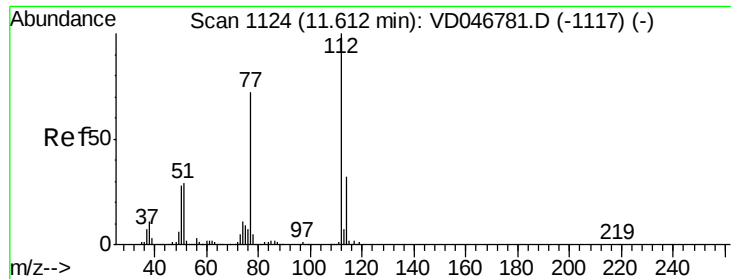
Tgt Ion:117 Resp: 231306
Ion Ratio Lower Upper
117 100
82 69.1 50.6 75.8
119 34.2 25.8 38.8



#64
Tetrachloroethene
Concen: 9.95 ug/l
RT: 10.47 min Scan# 1009
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion:164 Resp: 18586
Ion Ratio Lower Upper
164 100
166 135.9 106.8 160.2
129 90.2 70.6 106.0
131 77.8 66.6 100.0

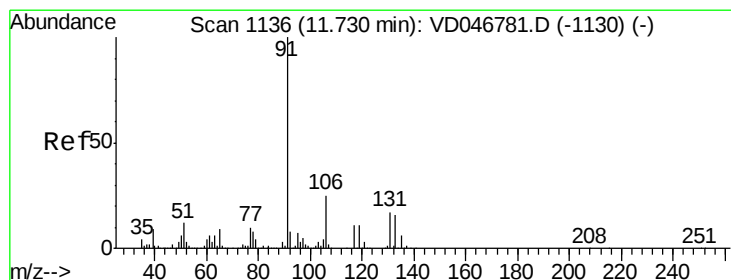
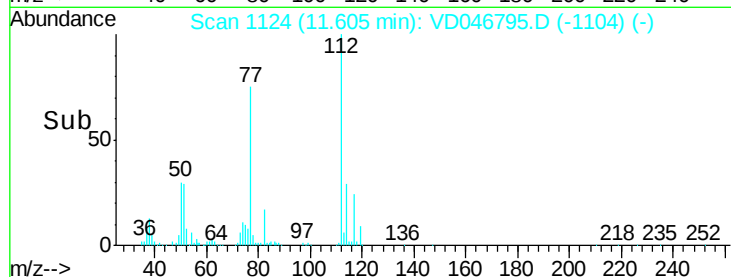
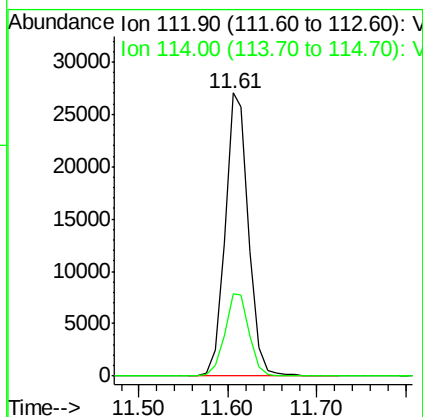
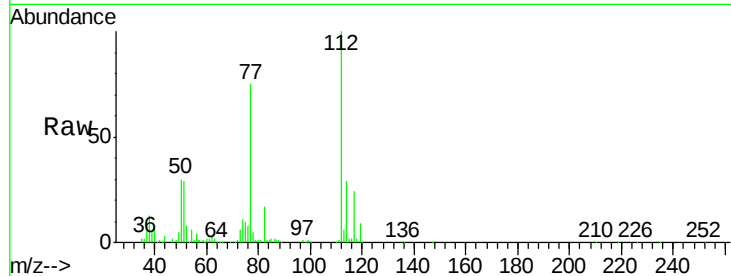




#65
Chlorobenzene
Concen: 10.24 ug/l
RT: 11.61 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

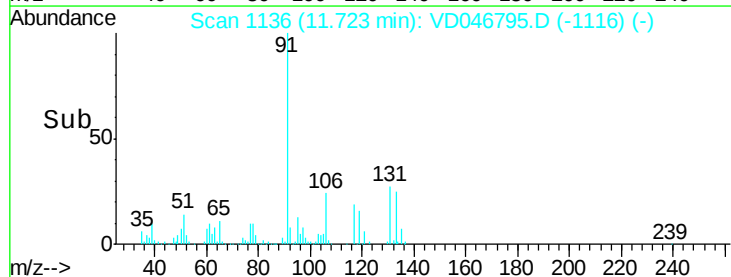
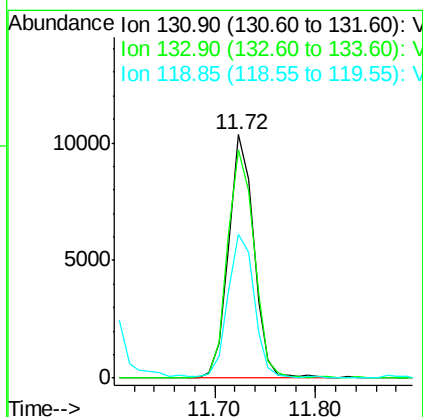
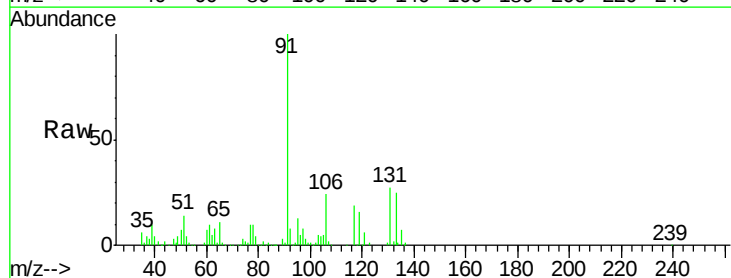
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

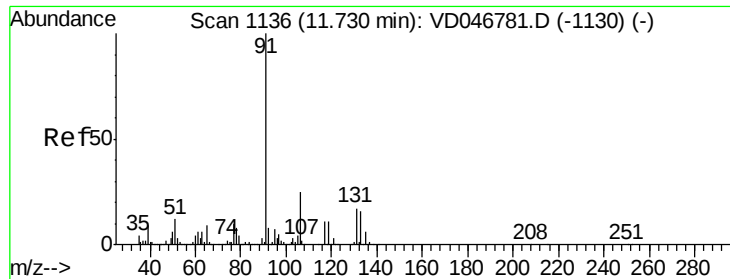
Tgt Ion:112 Resp: 49843
Ion Ratio Lower Upper
112 100
114 29.2 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 10.06 ug/l
RT: 11.72 min Scan# 1136
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion:131 Resp: 17993
Ion Ratio Lower Upper
131 100
133 93.7 48.4 145.0
119 59.3 31.5 94.5

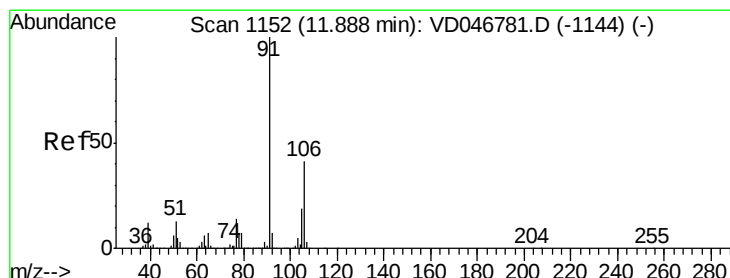
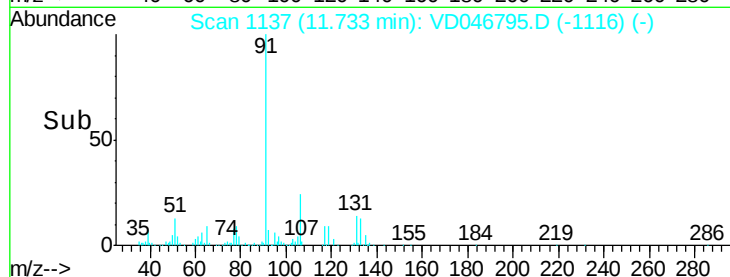
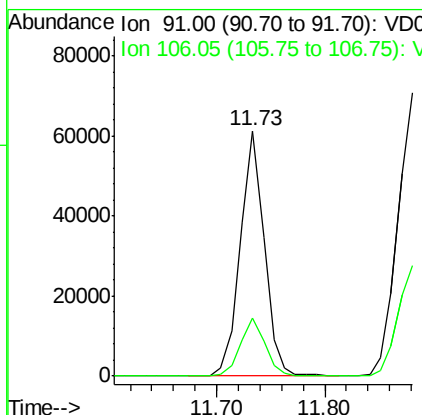
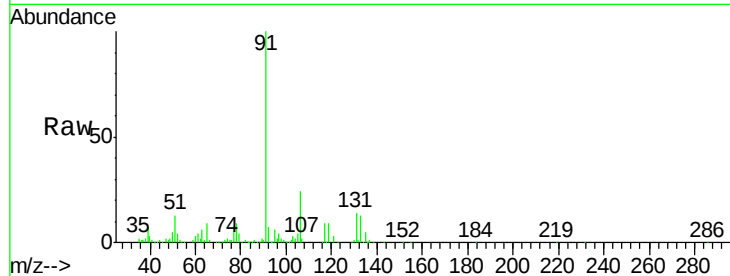




#67
Ethyl Benzene
Concen: 9.66 ug/l
RT: 11.73 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

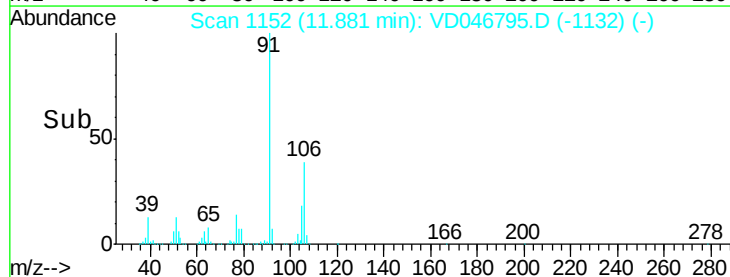
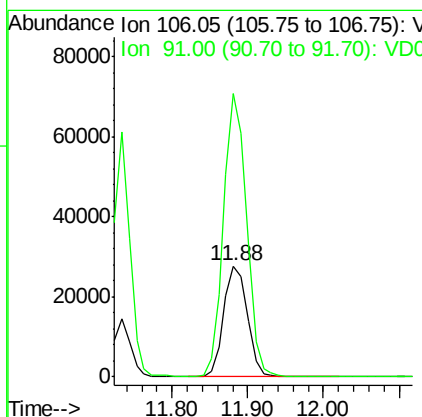
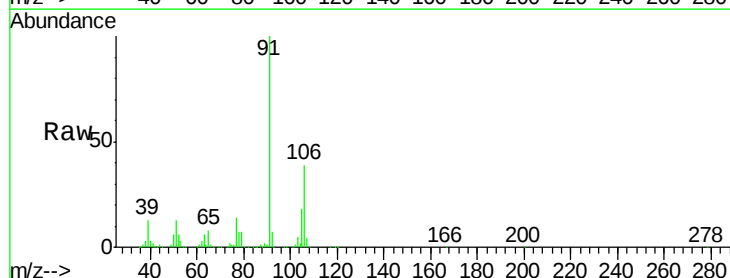
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

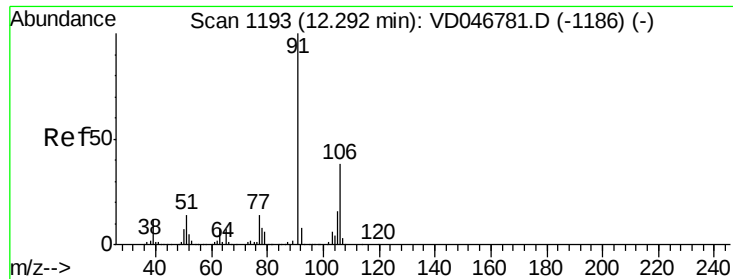
Tgt Ion: 91 Resp: 94506
Ion Ratio Lower Upper
91 100
106 23.6 20.2 30.2



#68
m/p-Xylenes
Concen: 19.52 ug/l
RT: 11.88 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion: 106 Resp: 60236
Ion Ratio Lower Upper
106 100
91 255.4 187.9 281.9

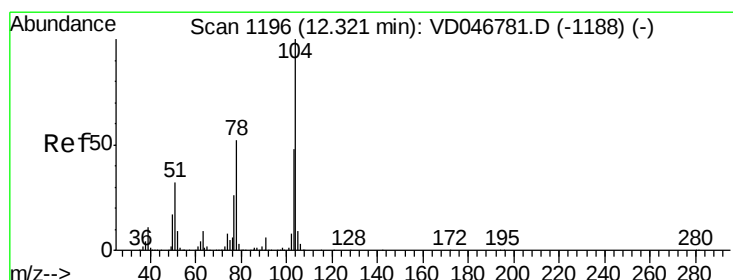
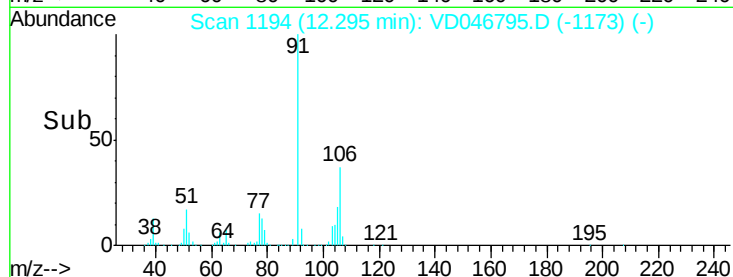
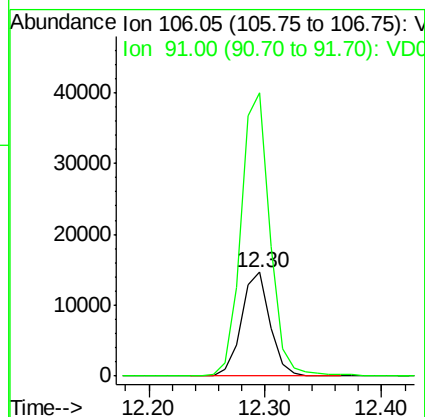
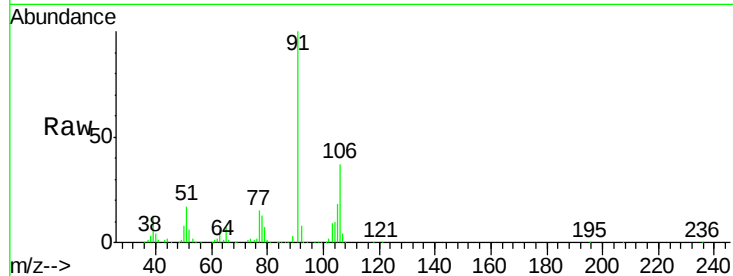




#69
o-Xylene
Concen: 8.97 ug/l
RT: 12.30 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

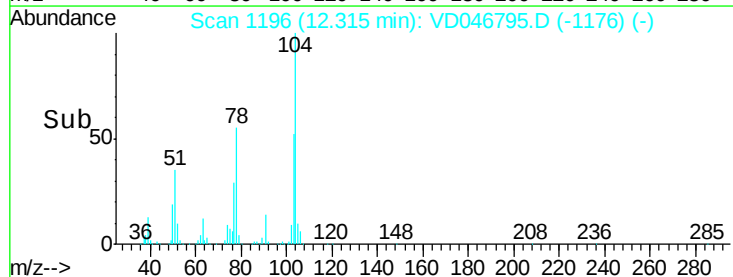
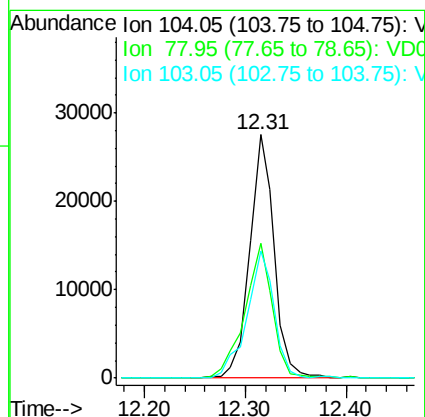
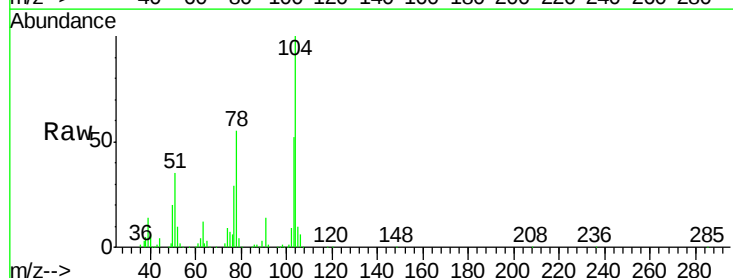
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

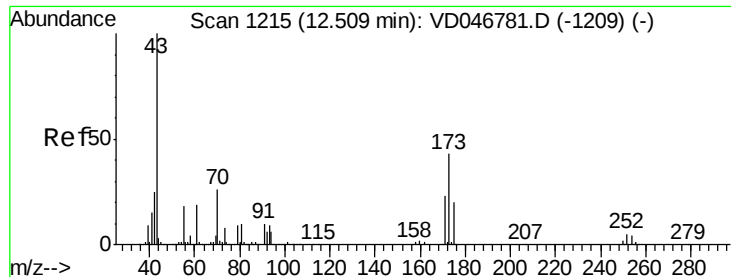
Tgt Ion:106 Resp: 24918
Ion Ratio Lower Upper
106 100
91 272.3 124.8 374.5



#70
Styrene
Concen: 9.71 ug/l
RT: 12.31 min Scan# 1196
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion:104 Resp: 46742
Ion Ratio Lower Upper
104 100
78 55.1 44.5 66.7
103 52.4 40.3 60.5

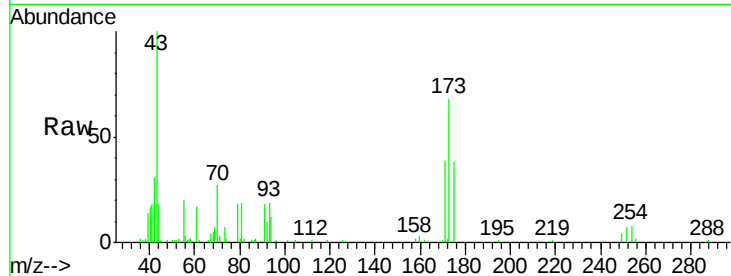




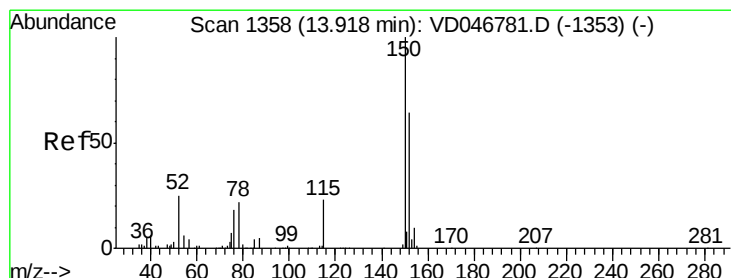
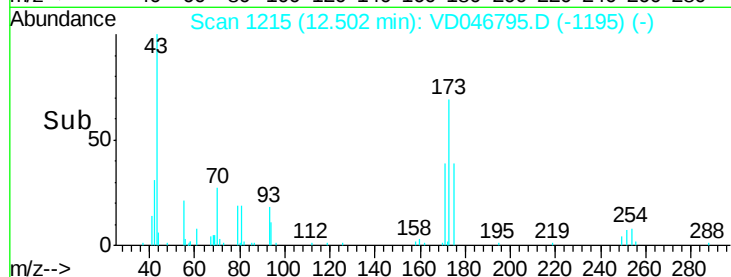
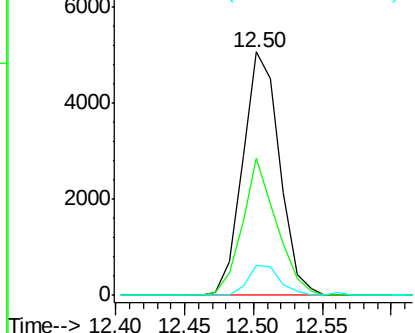
#71
Bromoform
Concen: 9.90 ug/l
RT: 12.50 min Scan# 1215
Delta R.T. -0.01 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:173 Resp: 9431
Ion Ratio Lower Upper
173 100
175 56.6 23.1 69.3
254 12.2 8.7 13.1

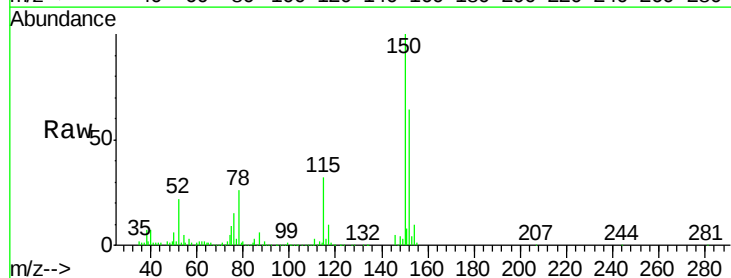


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

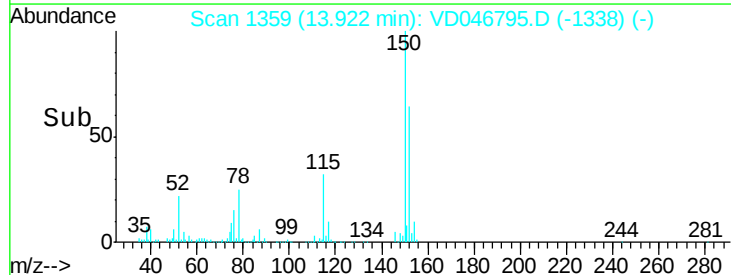
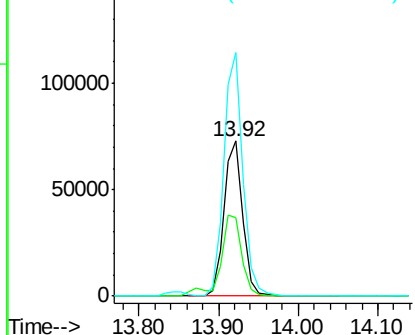


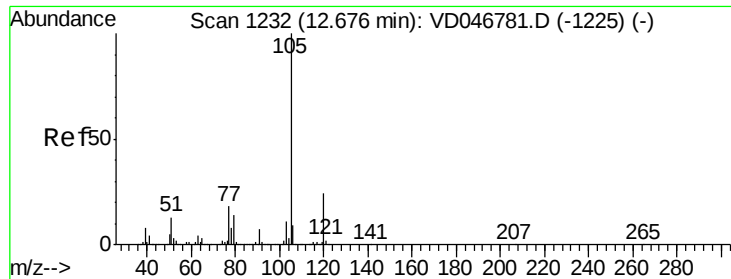
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.92 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VD046795.D
Acq: 18 Sep 2015 21:34

Tgt Ion:152 Resp: 120929
Ion Ratio Lower Upper
152 100
115 50.4 26.2 78.6
150 157.0 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





#73

Isopropylbenzene

Concen: 9.42 ug/l

RT: 12.67 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

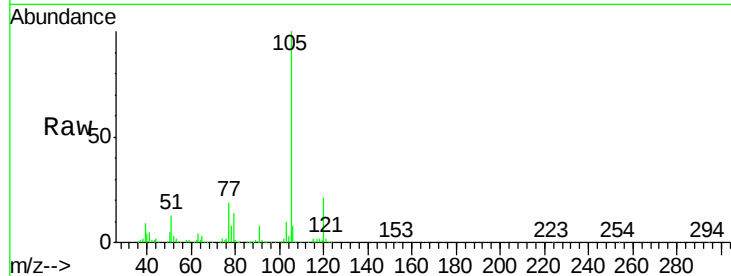
LOQ-SOIL2015-02

Tgt Ion: 105 Resp: 80311

Ion Ratio Lower Upper

105 100

120 20.7 12.4 37.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.67

60000

50000

40000

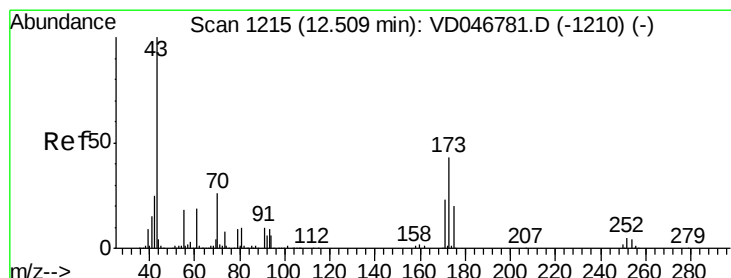
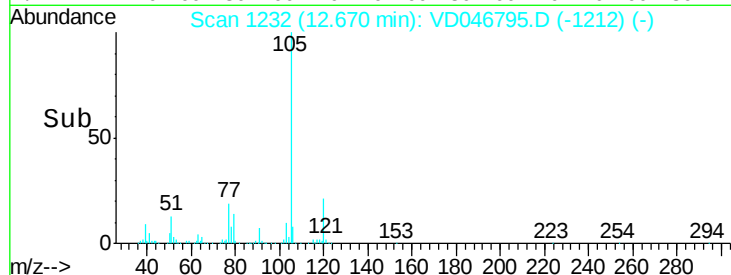
30000

20000

10000

0

Time-->



#74

N-ethyl acetate

Concen: 10.43 ug/l

RT: 12.50 min Scan# 1215

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Tgt Ion: 43 Resp: 13533

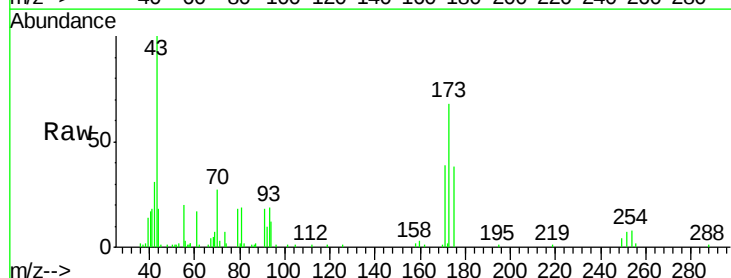
Ion Ratio Lower Upper

43 100

70 26.5 22.1 33.1

55 20.4 14.5 21.7

61 16.5 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

10000

8000

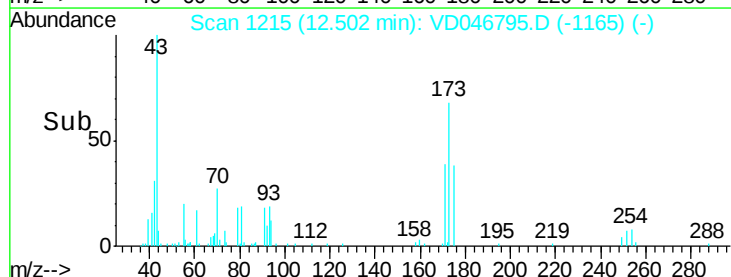
6000

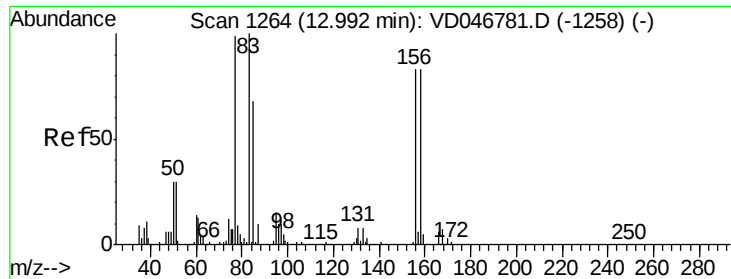
4000

2000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 10.74 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

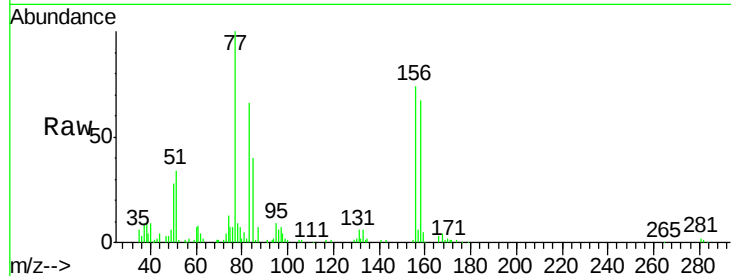
Tgt Ion: 83 Resp: 14780

Ion Ratio Lower Upper

83 100

131 9.5 3.9 11.7

85 60.5 30.5 91.5



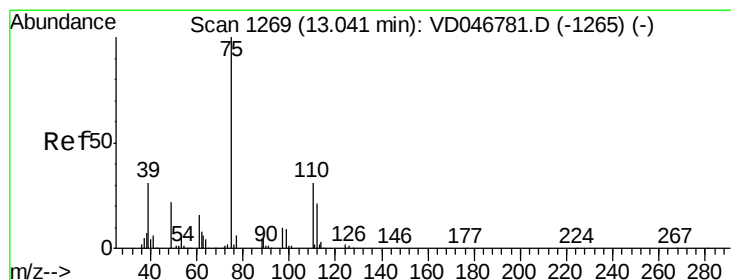
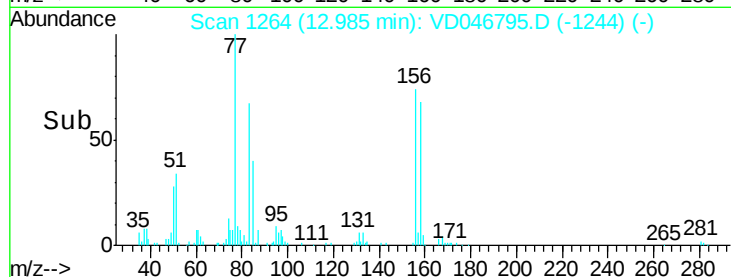
Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

12.99

Time-->



#76

1,2,3-Trichloropropane

Concen: 10.01 ug/l

RT: 13.03 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD046795.D

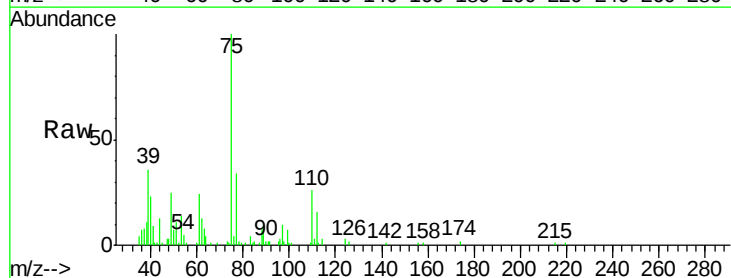
Acq: 18 Sep 2015 21:34

Tgt Ion: 75 Resp: 14730

Ion Ratio Lower Upper

75 100

77 34.1 16.0 48.0

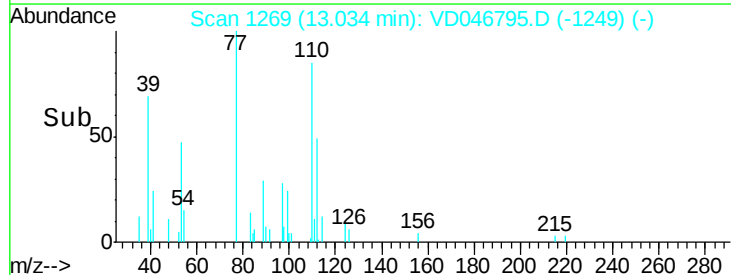


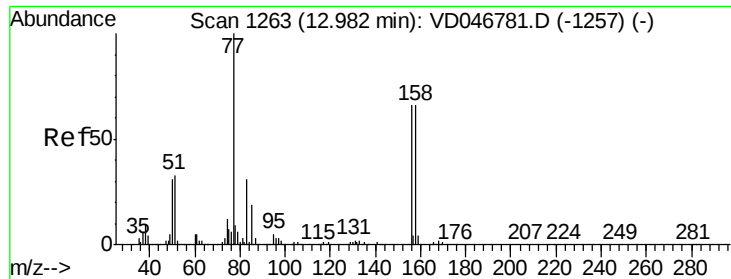
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.03

Time-->





#77

Bromobenzene

Concen: 9.96 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

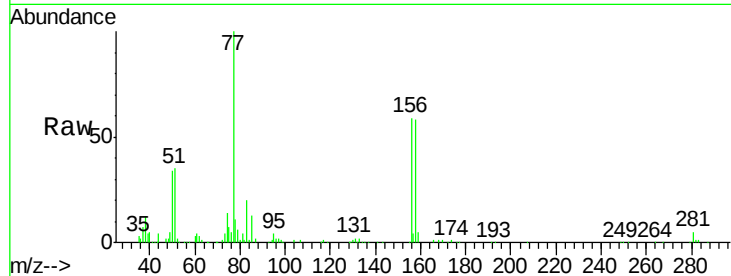
Tgt Ion:156 Resp: 21351

Ion Ratio Lower Upper

156 100

77 168.9 70.3 210.8

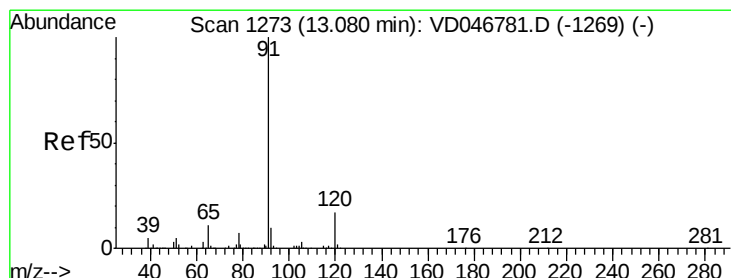
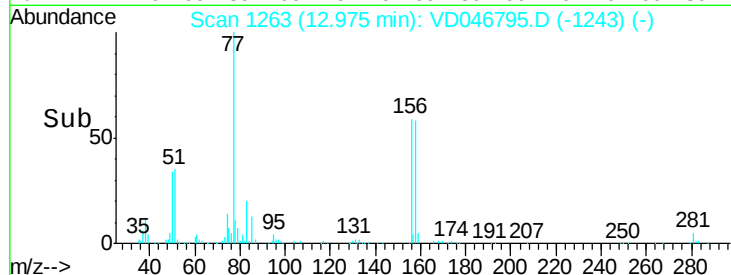
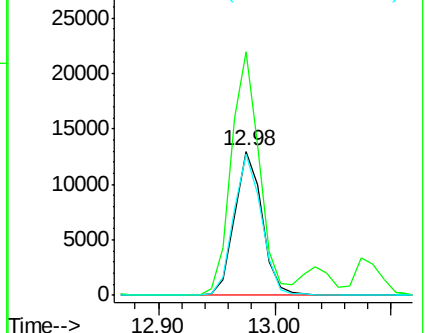
158 98.2 49.0 147.0



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: 9.79 ug/l

RT: 13.08 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VD046795.D

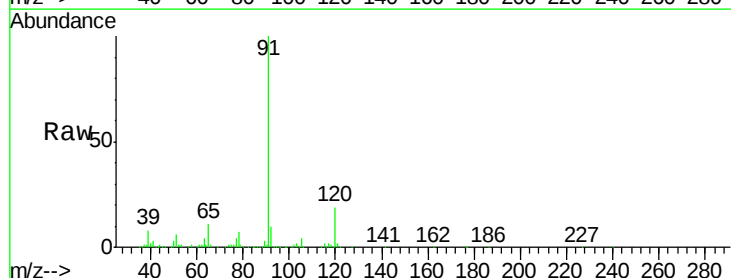
Acq: 18 Sep 2015 21:34

Tgt Ion: 91 Resp: 117864

Ion Ratio Lower Upper

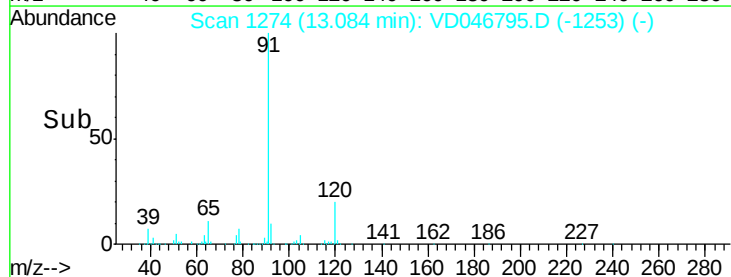
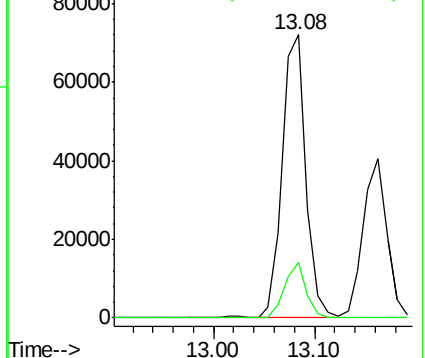
91 100

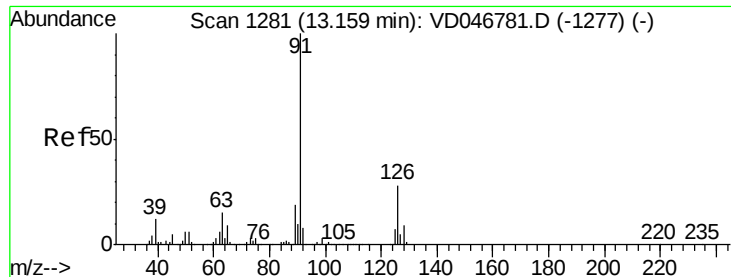
120 19.5 9.3 27.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 9.81 ug/l

RT: 13.16 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

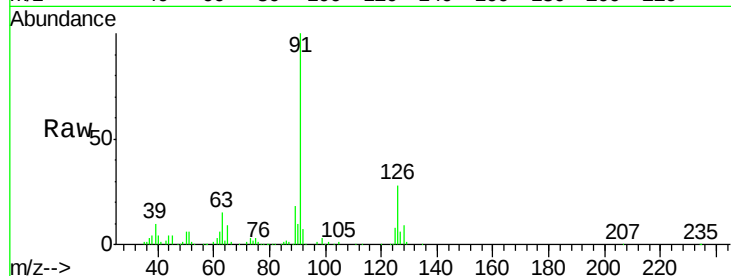
LOQ-SOIL2015-02

Tgt Ion: 91 Resp: 65589

Ion Ratio Lower Upper

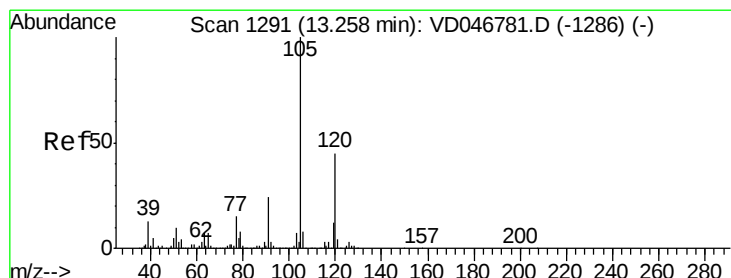
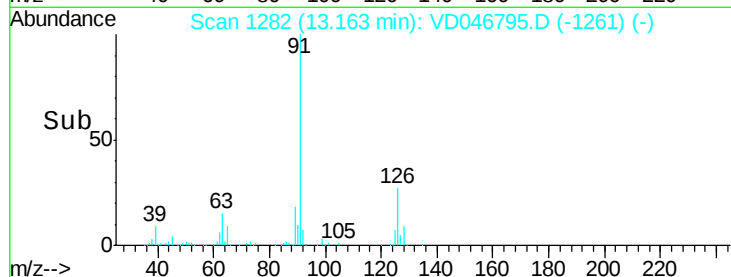
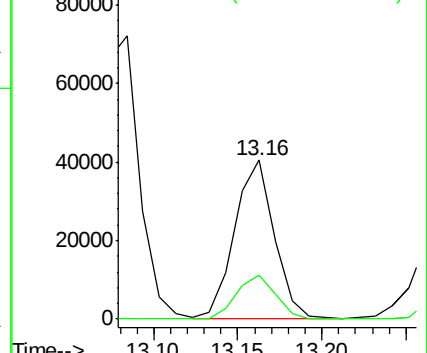
91 100

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



#80

1,3,5-Trimethylbenzene

Concen: 9.56 ug/l

RT: 13.25 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VD046795.D

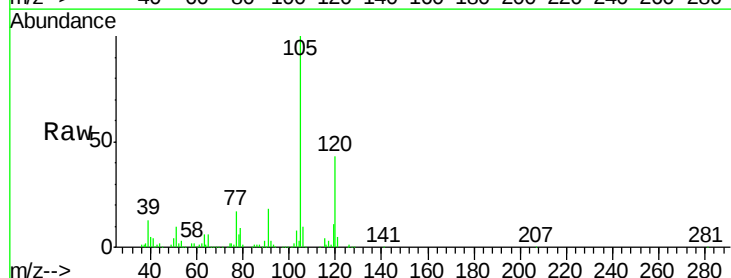
Acq: 18 Sep 2015 21:34

Tgt Ion: 105 Resp: 64920

Ion Ratio Lower Upper

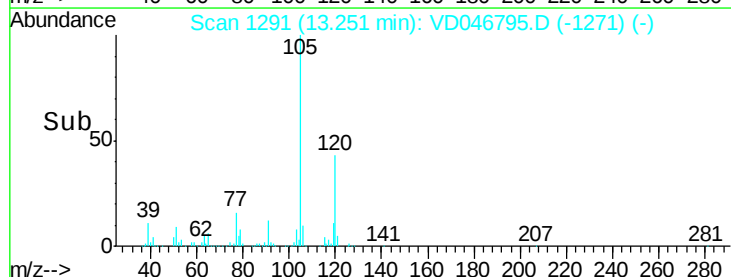
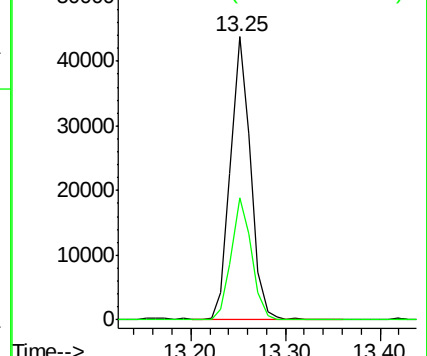
105 100

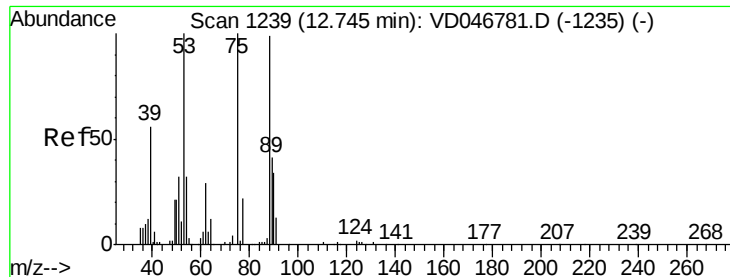
120 43.1 22.3 66.8



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: 11.03 ug/l

RT: 12.74 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

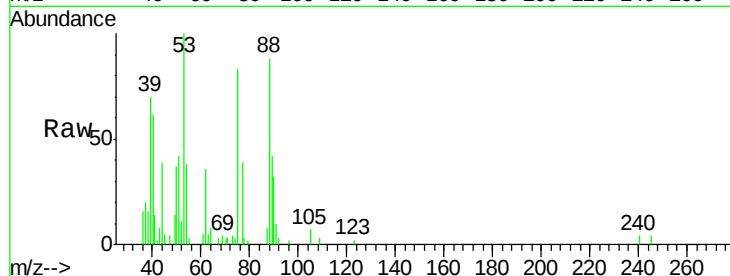
Tgt Ion: 75 Resp: 3183

Ion Ratio Lower Upper

75 100

53 120.5 82.3 123.5

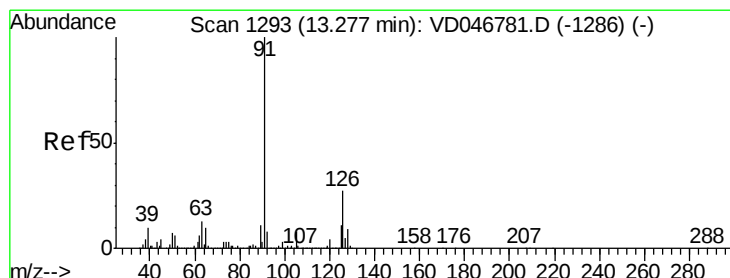
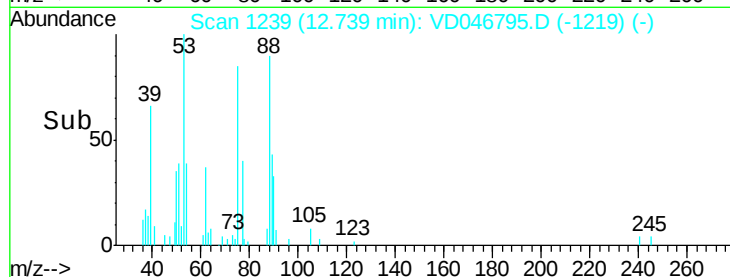
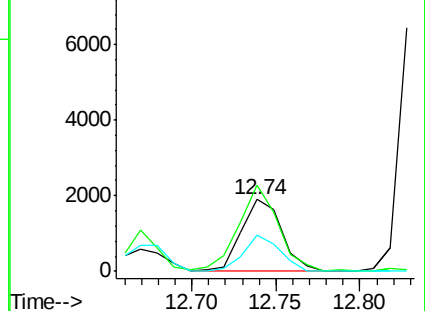
89 50.3 36.6 54.8



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: 10.16 ug/l

RT: 13.28 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VD046795.D

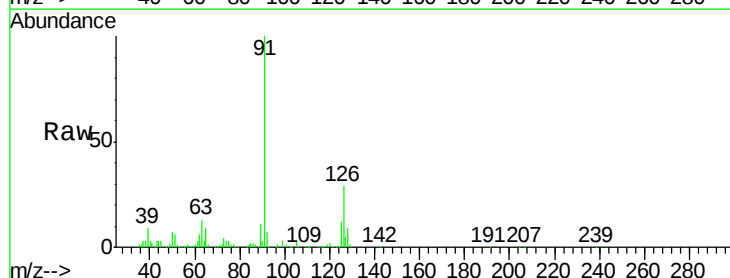
Acq: 18 Sep 2015 21:34

Tgt Ion: 91 Resp: 80849

Ion Ratio Lower Upper

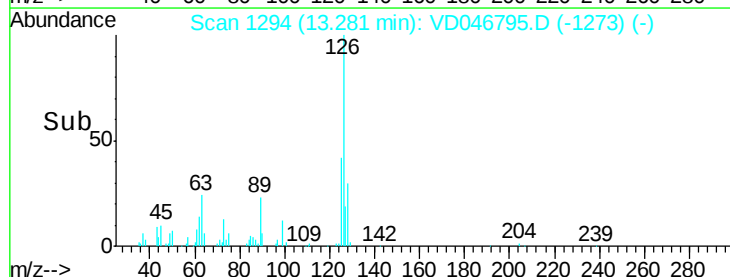
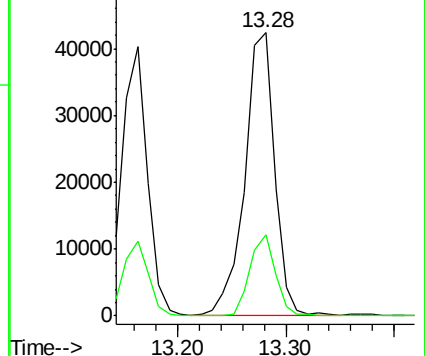
91 100

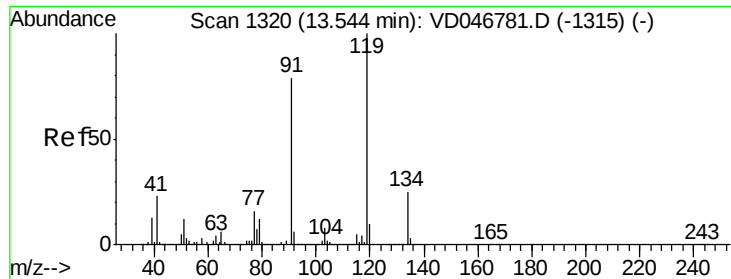
126 28.6 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

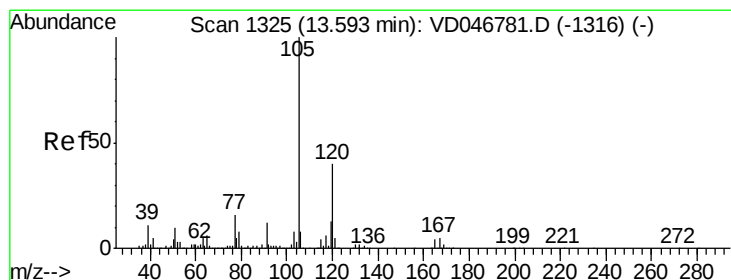
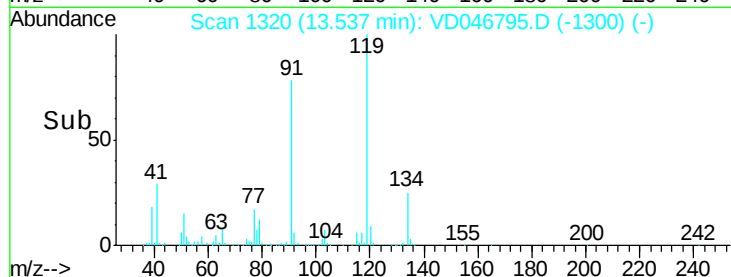
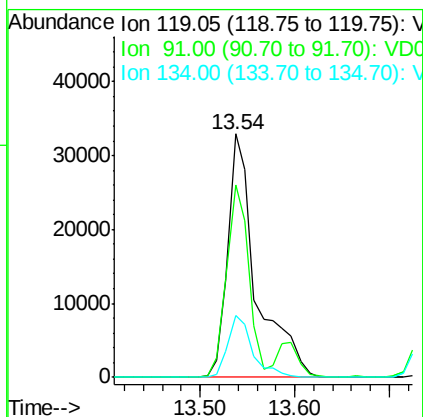
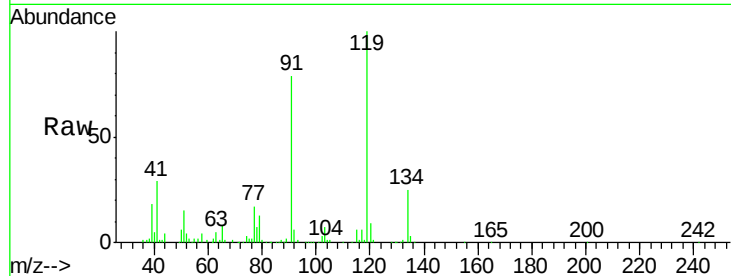




#83
 tert-Butylbenzene
 Concen: 11.37 ug/l
 RT: 13.54 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

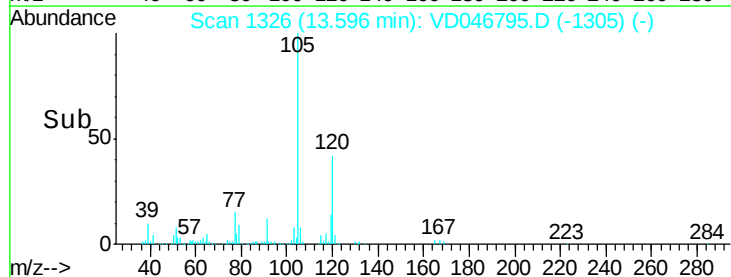
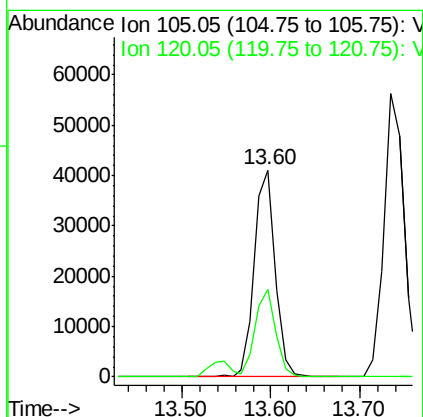
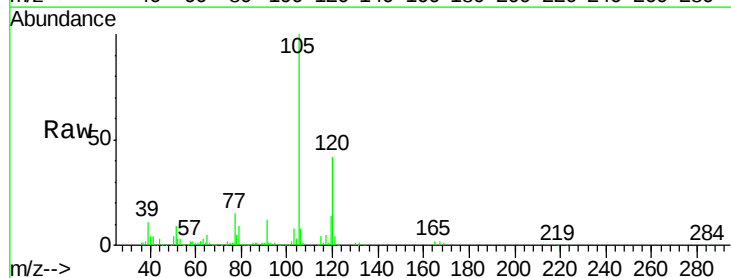
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

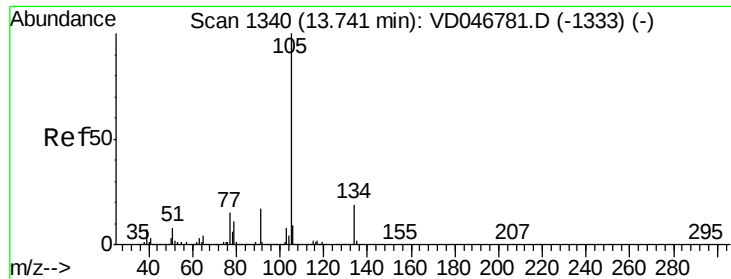
Tgt Ion:119 Resp: 69657
 Ion Ratio Lower Upper
 119 100
 91 78.9 41.6 124.9
 134 25.3 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 9.69 ug/l
 RT: 13.60 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion:105 Resp: 66252
 Ion Ratio Lower Upper
 105 100
 120 42.4 21.1 63.1

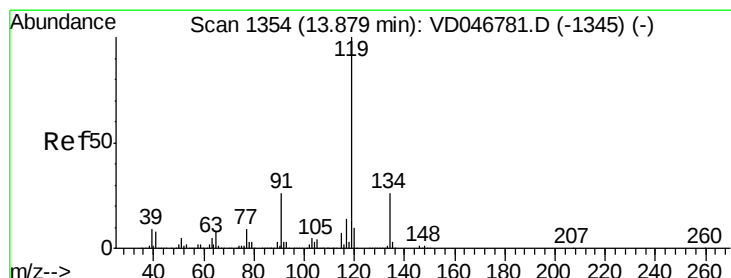
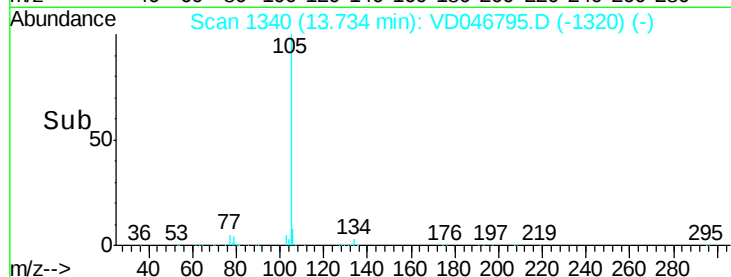
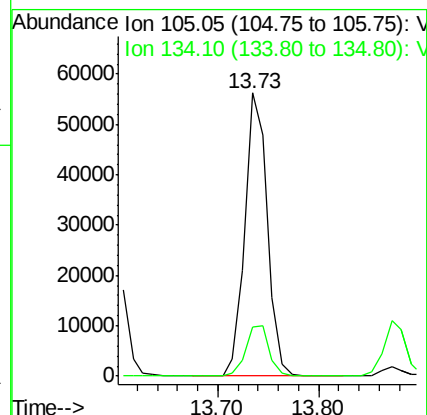
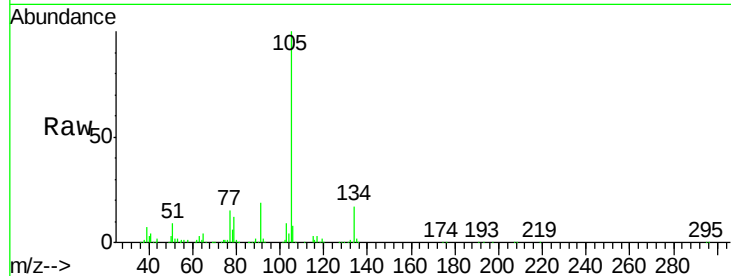




#85
 sec-Butylbenzene
 Concen: 9.72 ug/l
 RT: 13.73 min Scan# 1340
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

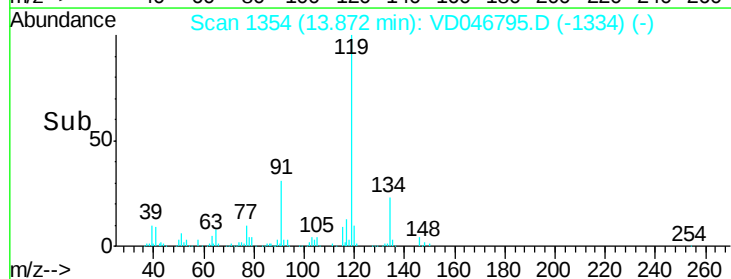
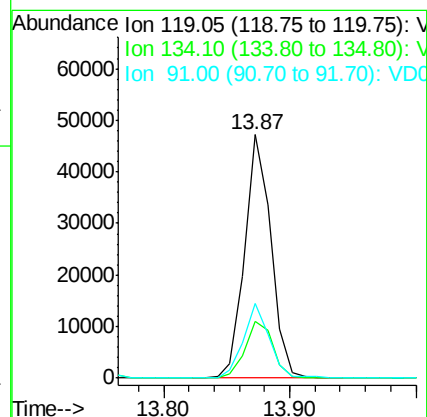
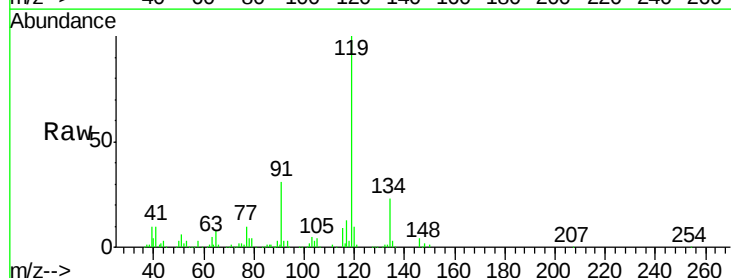
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

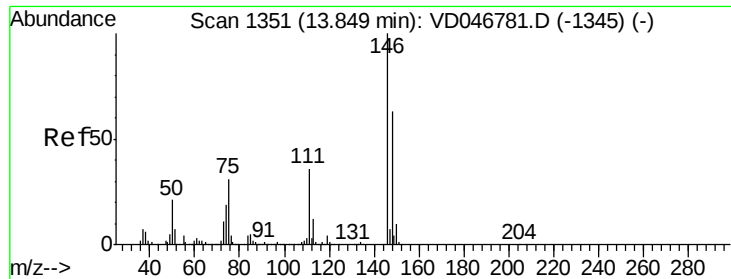
Tgt Ion:105 Resp: 87526
 Ion Ratio Lower Upper
 105 100
 134 17.3 10.1 30.3



#86
 p-Isopropyltoluene
 Concen: 9.63 ug/l
 RT: 13.87 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion:119 Resp: 68166
 Ion Ratio Lower Upper
 119 100
 134 23.5 13.0 38.9
 91 30.8 13.8 41.3

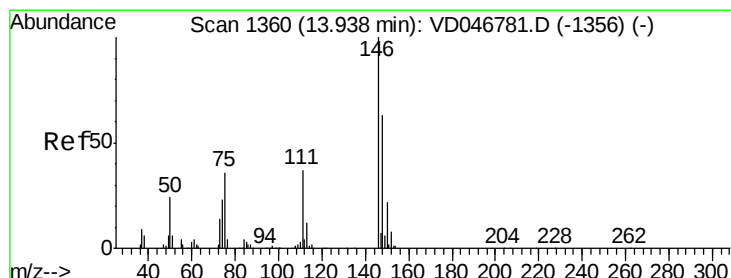
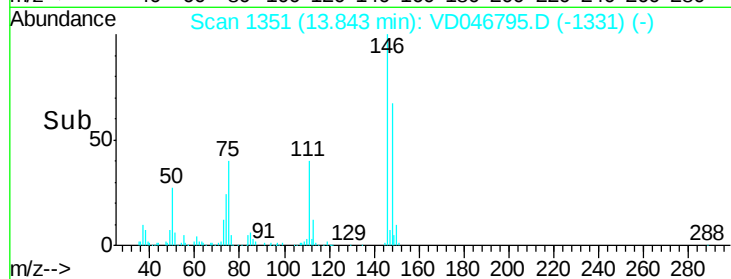
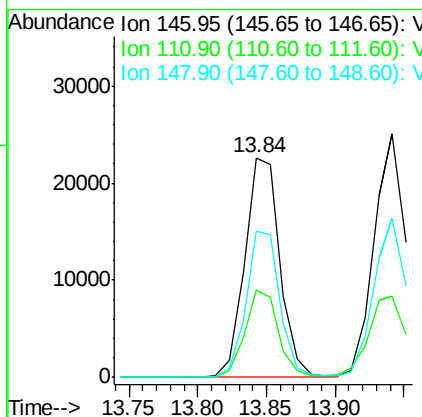
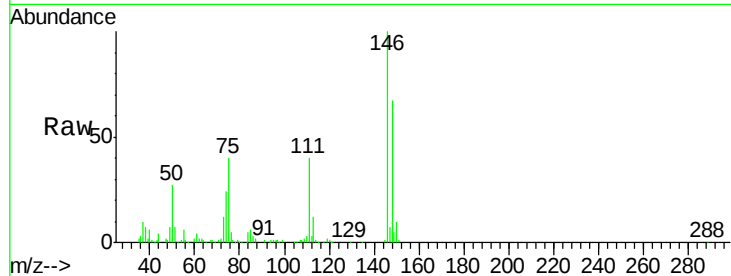




#87
 1,3-Dichlorobenzene
 Concen: 10.10 ug/l
 RT: 13.84 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

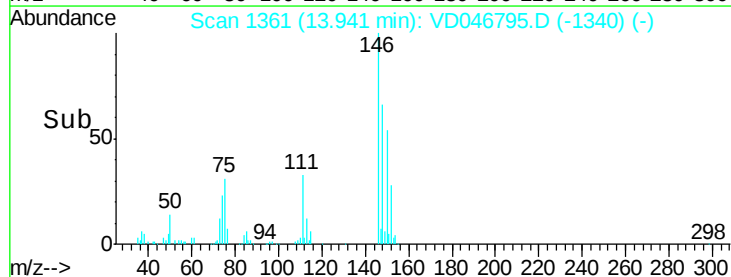
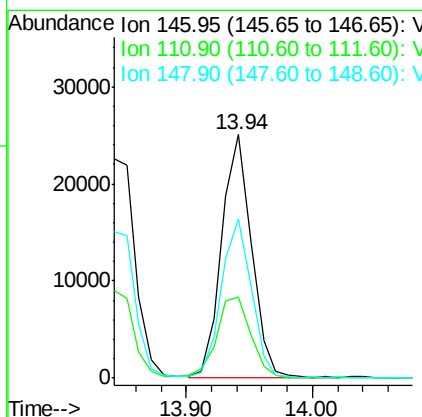
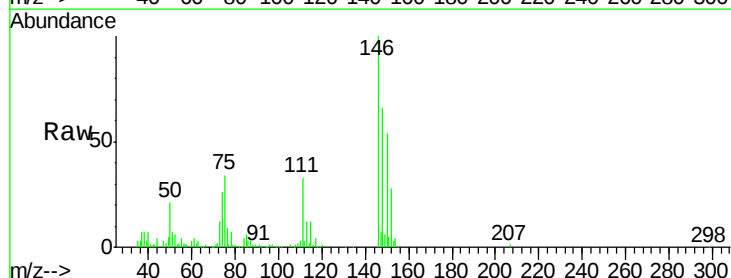
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

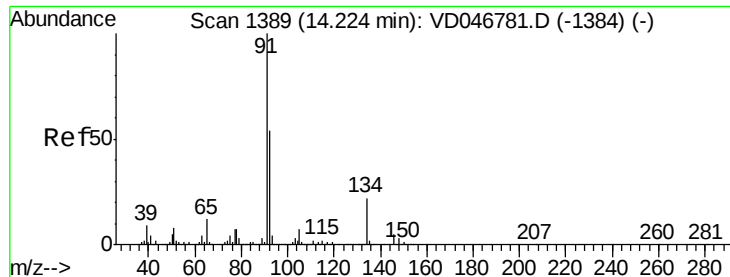
Tgt Ion:146 Resp: 40406
 Ion Ratio Lower Upper
 146 100
 111 39.7 17.4 52.2
 148 66.8 33.0 99.0



#88
 1,4-Dichlorobenzene
 Concen: 10.37 ug/l
 RT: 13.94 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion:146 Resp: 41232
 Ion Ratio Lower Upper
 146 100
 111 33.2 17.0 51.0
 148 65.5 31.9 95.7





#89

n-Butylbenzene

Concen: 9.23 ug/l

RT: 14.22 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

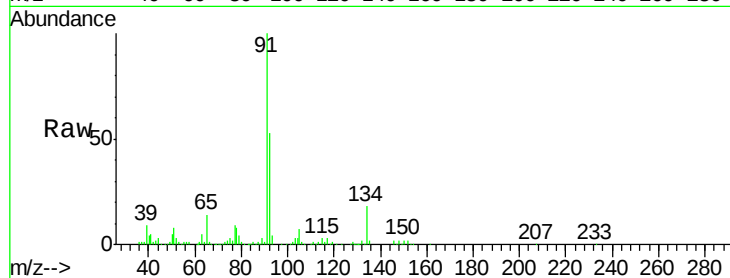
Tgt Ion: 91 Resp: 73696

Ion Ratio Lower Upper

91 100

92 52.5 27.1 81.2

134 17.7 9.6 28.6

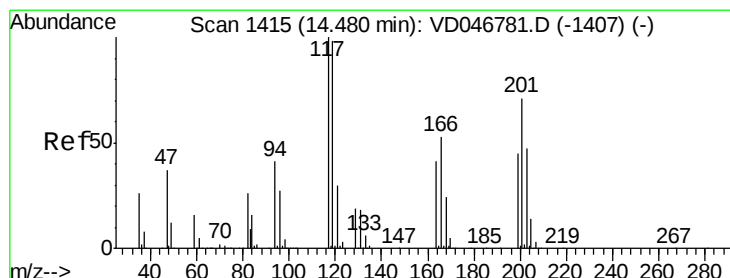
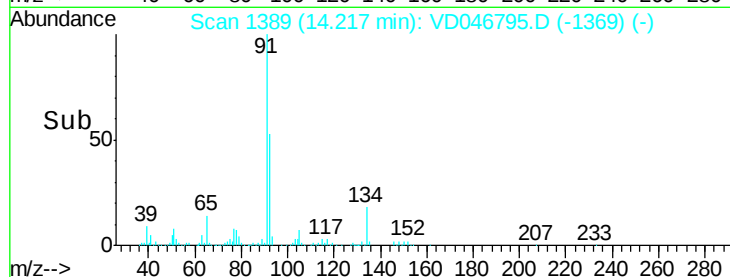


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->



#90

Hexachloroethane

Concen: 9.94 ug/l

RT: 14.48 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD046795.D

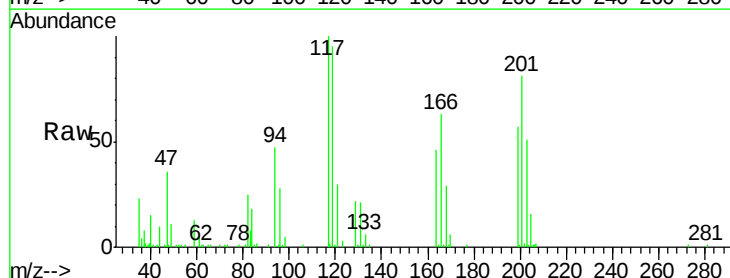
Acq: 18 Sep 2015 21:34

Tgt Ion: 117 Resp: 16312

Ion Ratio Lower Upper

117 100

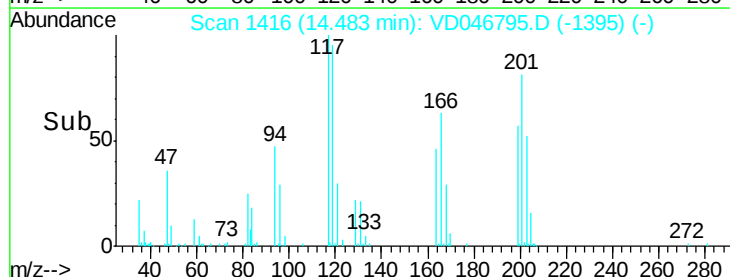
201 80.6 41.0 123.0

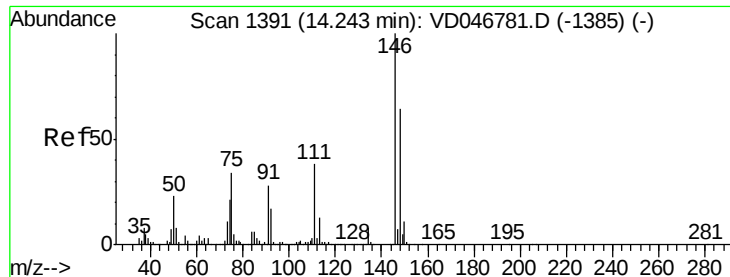


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

Time-->





#91

1,2-Dichlorobenzene

Concen: 10.43 ug/l

RT: 14.24 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

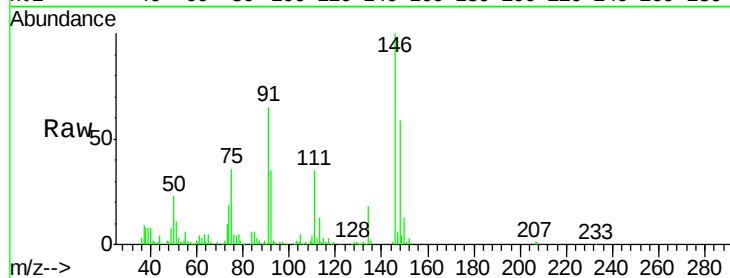
Tgt Ion:146 Resp: 35051

Ion Ratio Lower Upper

146 100

111 34.8 18.2 54.6

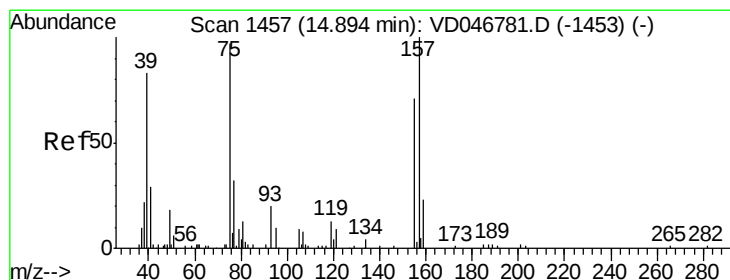
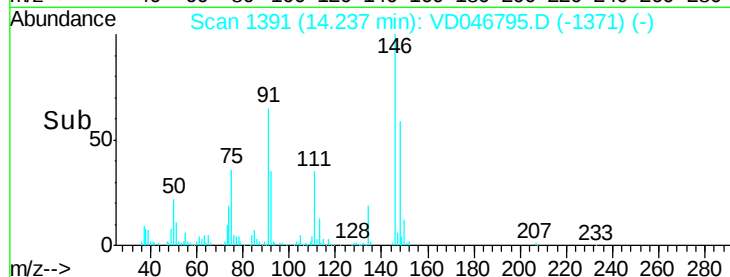
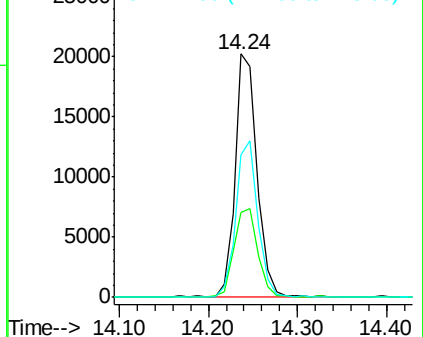
148 58.6 31.1 93.3



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: 10.09 ug/l

RT: 14.90 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

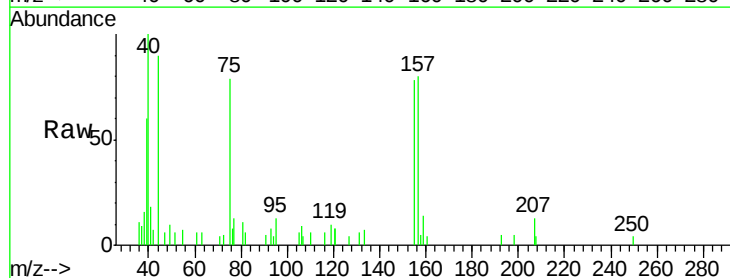
Tgt Ion: 75 Resp: 1784

Ion Ratio Lower Upper

75 100

155 98.3 41.4 124.4

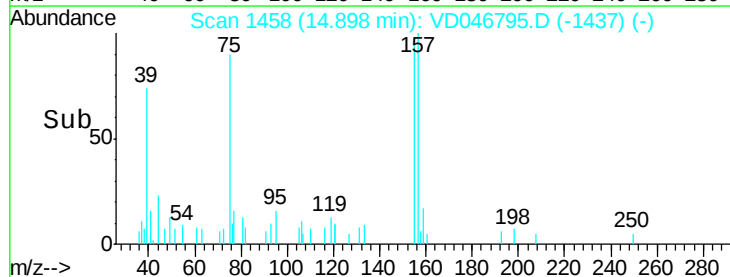
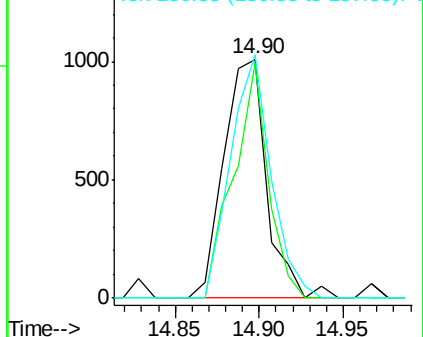
157 101.9 65.0 195.1

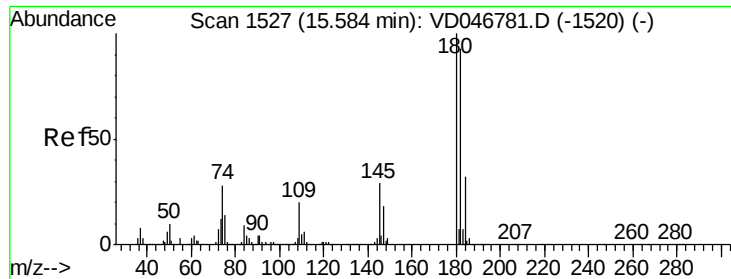


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

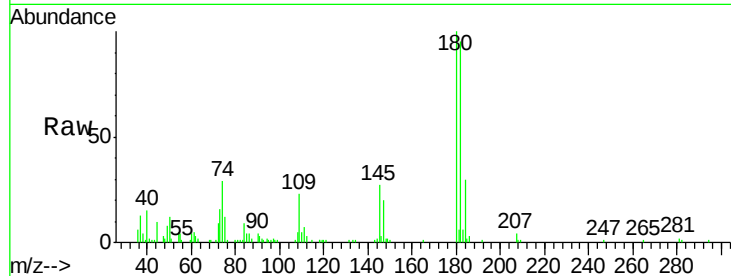




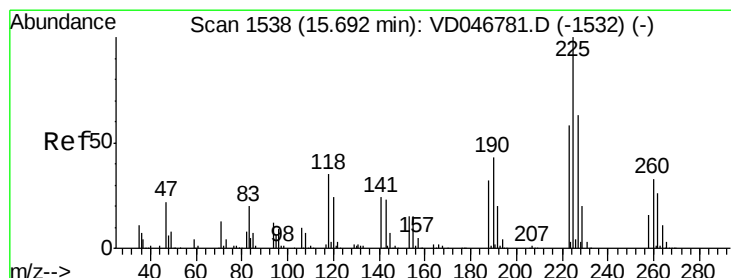
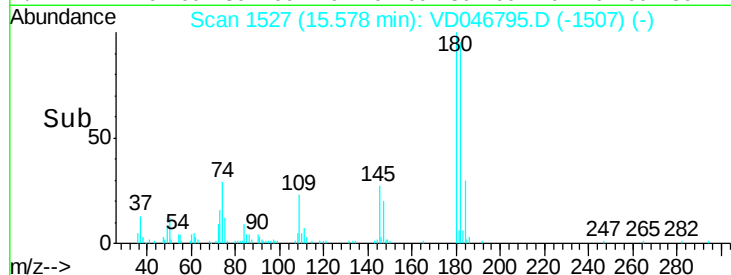
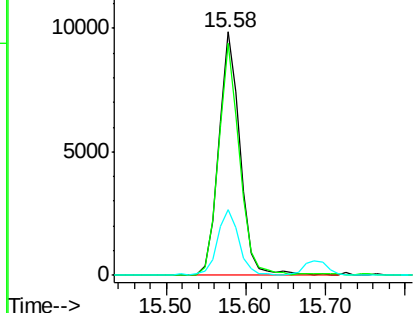
#93
 1,2,4-Trichlorobenzene
 Concen: 9.62 ug/l
 RT: 15.58 min Scan# 1527
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:180 Resp: 18607
 Ion Ratio Lower Upper
 180 100
 182 95.3 47.5 142.5
 145 27.0 14.6 44.0

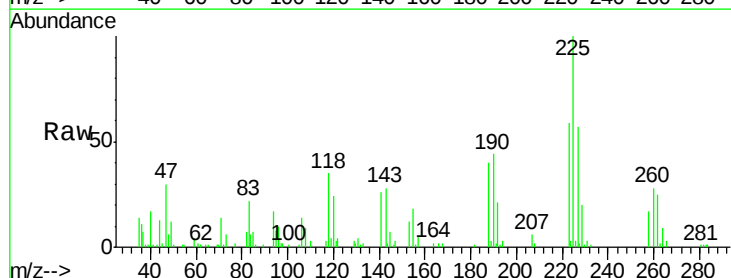


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

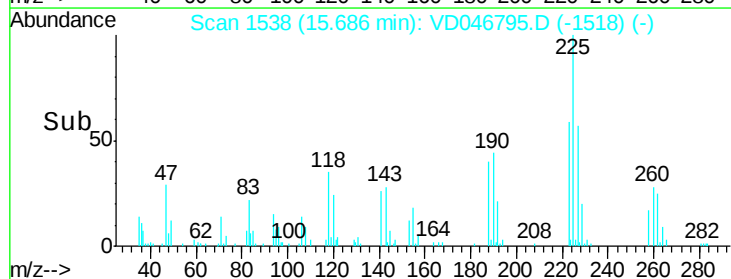
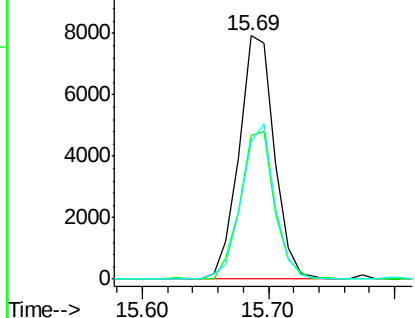


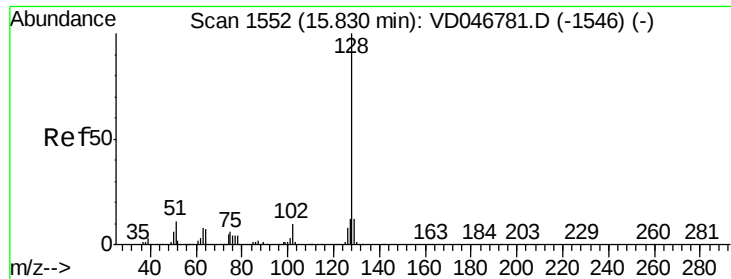
#94
 Hexachlorobutadiene
 Concen: 9.65 ug/l
 RT: 15.69 min Scan# 1538
 Delta R.T. -0.01 min
 Lab File: VD046795.D
 Acq: 18 Sep 2015 21:34

Tgt Ion:225 Resp: 15377
 Ion Ratio Lower Upper
 225 100
 223 59.2 30.4 91.2
 227 56.7 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: 9.71 ug/l

RT: 15.82 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL2015-02

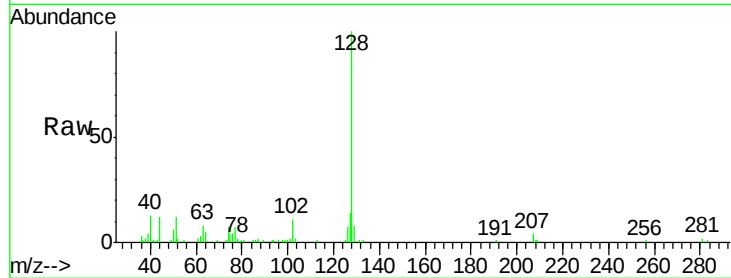
Tgt Ion:128 Resp: 19721

Ion Ratio Lower Upper

128 100

127 14.5 9.8 14.6

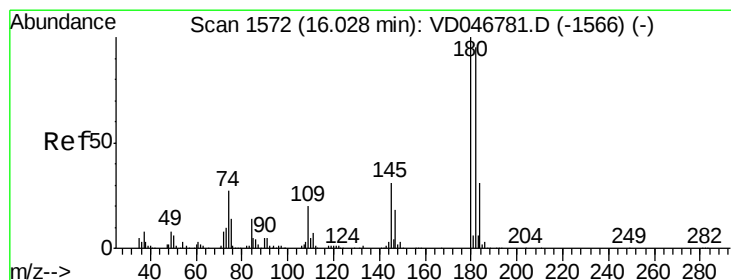
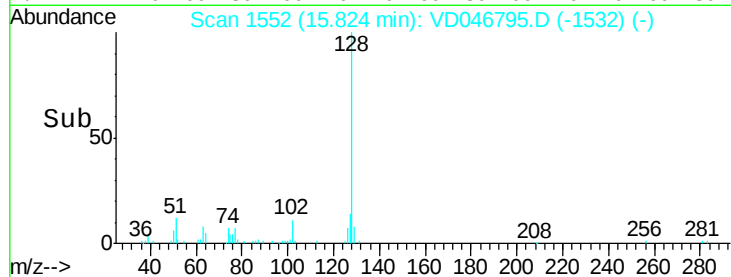
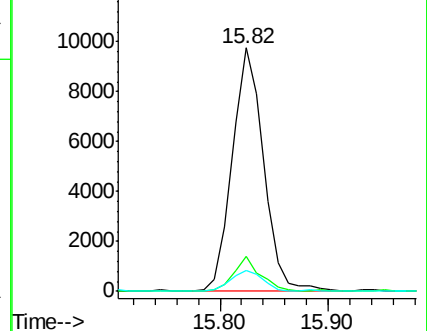
129 8.4 8.6 12.8#



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: 9.55 ug/l

RT: 16.02 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VD046795.D

Acq: 18 Sep 2015 21:34

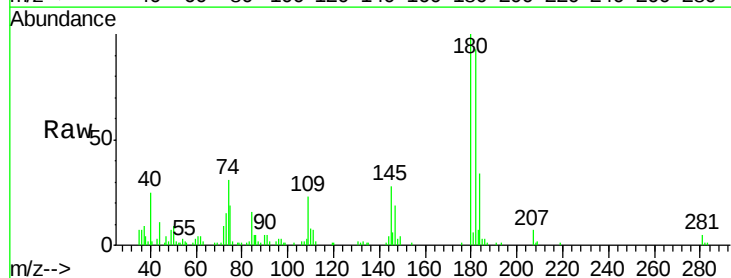
Tgt Ion:180 Resp: 15432

Ion Ratio Lower Upper

180 100

182 93.1 47.4 142.3

145 28.2 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

