

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060978.D
 Acq On : 8 Mar 2019 12:34
 Operator : VA/AP
 Sample : K1560-01LOD2.5PPB
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Quant Time: Mar 08 23:55:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	691869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1276616	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	1059163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	482263	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	328954	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	
35) Dibromofluoromethane	6.92	113	541785	57.19	ug/l	0.00
Spiked Amount			Recovery	=	114.38%	
50) Toluene-d8	10.40	98	1260723	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	
62) 4-Bromofluorobenzene	13.54	95	500631	54.23	ug/l	0.00
Spiked Amount			Recovery	=	108.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	19409	2.832	ug/l	95
3) Chloromethane	1.76	50	17126	3.000	ug/l	92
4) Vinyl Chloride	1.86	62	12916	2.448	ug/l	99
5) Bromomethane	2.17	94	5594	4.453	ug/l #	71
6) Chloroethane	2.28	64	4063	2.573	ug/l #	76
7) Trichlorofluoromethane	2.55	101	20473	2.702	ug/l	94
8) Diethyl Ether	2.88	74	6344	2.538	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.17	101	23116	2.728	ug/l	90
10) Methyl Iodide	3.32	142	21865	4.698	ug/l	99
11) Tert butyl alcohol	3.99	59	2917	7.956	ug/l #	75
12) 1,1-Dichloroethene	3.14	96	18406	2.650	ug/l	91
13) Acrolein	3.04	56	7437	14.019	ug/l #	74
14) Allyl chloride	3.63	41	29146	2.623	ug/l	96
15) Acrylonitrile	4.19	53	18590	14.346	ug/l	92
16) Acetone	3.22	43	24263	14.733	ug/l	98
17) Carbon Disulfide	3.39	76	65326	2.788	ug/l	98
18) Methyl Acetate	3.64	43	9802	3.024	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	33231	2.730	ug/l	98
20) Methylene Chloride	3.82	84	43681	1.272	ug/l	92
21) trans-1,2-Dichloroethene	4.22	96	20936	2.785	ug/l	84
22) Diisopropyl ether	5.11	45	63050	2.733	ug/l	91
23) Vinyl Acetate	5.06	43	154902	13.081	ug/l	97
24) 1,1-Dichloroethane	4.98	63	35161	2.782	ug/l	98
25) 2-Butanone	6.06	43	26025	13.927	ug/l	95
26) 2,2-Dichloropropane	6.01	77	27042	2.741	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	21418	2.685	ug/l	90
28) Bromochloromethane	6.44	49	13970	2.611	ug/l	93
29) Tetrahydrofuran	6.45	42	12984	12.796	ug/l	91
30) Chloroform	6.66	83	34234	2.614	ug/l	90
31) Cyclohexane	6.95	56	29080	2.854	ug/l	96
32) 1,1,1-Trichloroethane	6.86	97	30294	2.675	ug/l	94
36) 1,1-Dichloropropene	7.14	75	28191	2.562	ug/l	95
37) Ethyl Acetate	6.17	43	14470	2.802	ug/l #	83
38) Carbon Tetrachloride	7.11	117	31127	2.568	ug/l #	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060978.D
 Acq On : 8 Mar 2019 12:34
 Operator : VA/AP
 Sample : K1560-01LOD2.5PPB
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Quant Time: Mar 08 23:55:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	28252	2.476	ug/l	90
40) Benzene	7.44	78	64856	2.359	ug/l	97
41) Methacrylonitrile	6.45	41	14000	2.357	ug/l #	88
42) 1,2-Dichloroethane	7.57	62	19944	2.499	ug/l	99
43) Isopropyl Acetate	9.23	43	16587	2.319	ug/l #	95
44) Trichloroethene	8.52	130	22966	2.421	ug/l	93
45) 1,2-Dichloropropane	8.93	63	16310	2.258	ug/l	96
46) Dibromomethane	9.06	93	10001	2.182	ug/l	92
47) Bromodichloromethane	9.37	83	26325	2.546	ug/l	98
48) Methyl methacrylate	9.10	41	9398	2.334	ug/l #	84
49) 1,4-Dioxane	9.07	88	1308	32.122	ug/l #	82
51) 4-Methyl-2-Pentanone	10.29	43	49716	11.346	ug/l	96
52) Toluene	10.49	92	42646	2.494	ug/l	93
53) t-1,3-Dichloropropene	10.91	75	21467	2.270	ug/l	95
54) cis-1,3-Dichloropropene	10.03	75	27455	2.417	ug/l	97
55) 1,1,2-Trichloroethane	11.17	97	14203	2.494	ug/l	96
56) Ethyl methacrylate	11.03	69	14434	2.422	ug/l	92
57) 1,3-Dichloropropane	11.40	76	21012	2.469	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.84	63	38156	12.094	ug/l	99
59) 2-Hexanone	11.52	43	40707	12.701	ug/l	97
60) Dibromochloromethane	11.67	129	19867	2.371	ug/l	95
61) 1,2-Dibromoethane	11.79	107	16007	2.417	ug/l	95
64) Tetrachloroethene	11.24	164	20381	2.851	ug/l	96
65) Chlorobenzene	12.38	112	53388	2.571	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.50	131	19295	2.607	ug/l	96
67) Ethyl Benzene	12.51	91	86812	2.808	ug/l	99
68) m/p-Xylenes	12.66	106	67624	5.574	ug/l	99
69) o-Xylene	13.04	106	30274	2.538	ug/l	96
70) Styrene	13.06	104	49737	2.554	ug/l	97
71) Bromoform	13.23	173	10602	2.220	ug/l	98
73) Isopropylbenzene	13.40	105	88092	2.535	ug/l	97
74) N-amyl acetate	13.26	43	24506	2.504	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.69	83	14842	2.189	ug/l	88
76) 1,2,3-Trichloropropane	13.72	75	17796	2.565	ug/l	91
77) Bromobenzene	13.66	156	22115	2.493	ug/l	97
78) n-propylbenzene	13.76	91	119152	2.928	ug/l	96
79) 2-Chlorotoluene	13.83	91	59890	2.674	ug/l	93
80) 1,3,5-Trimethylbenzene	14.23	105	73262	2.777	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.54	75	181461	88.711	ug/l #	17
82) 4-Chlorotoluene	13.94	91	68501	2.587	ug/l	97
83) tert-Butylbenzene	14.18	119	75619	2.619	ug/l	97
84) 1,2,4-Trimethylbenzene	14.23	105	73262	2.777	ug/l	99
85) sec-Butylbenzene	14.36	105	89407	2.536	ug/l	98
86) p-Isopropyltoluene	14.48	119	81547	2.830	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	42654	2.692	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	40787	2.620	ug/l	96
89) n-Butylbenzene	14.79	91	71389	2.580	ug/l	97
90) Hexachloroethane	15.00	117	18498	2.273	ug/l	82
91) 1,2-Dichlorobenzene	14.80	146	34370	2.602	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	15.38	75	1698	2.078	ug/l	88

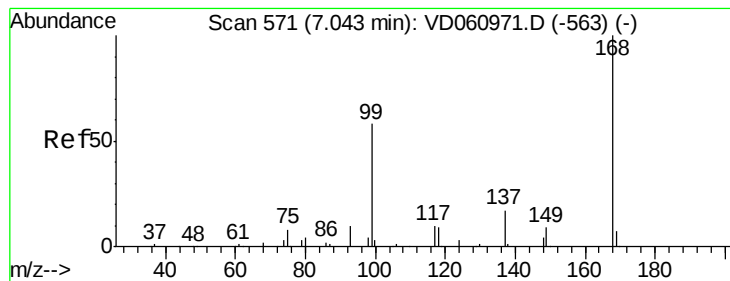
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030819\
Data File : VD060978.D
Acq On : 8 Mar 2019 12:34
Operator : VA/AP
Sample : K1560-01LOD2.5PPB
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Quant Time: Mar 08 23:55:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	14338	2.340	ug/l	95
94) Hexachlorobutadiene	16.04	225	9206	1.987	ug/l	91
95) Naphthalene	16.11	128	20177	2.167	ug/l	98
96) 1,2,3-Trichlorobenzene	16.26	180	6527	2.157	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

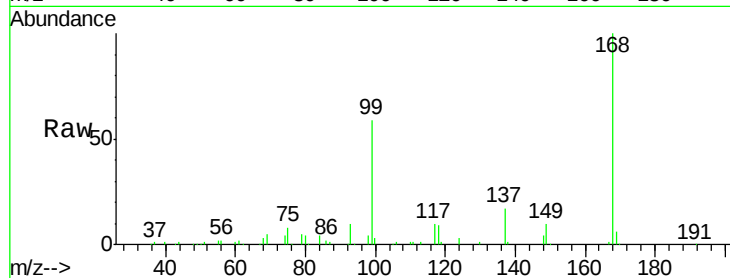
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:168 Resp: 691869

Ion Ratio Lower Upper

168 100

99 59.2 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

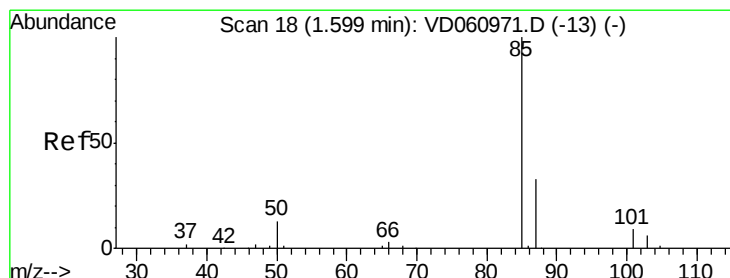
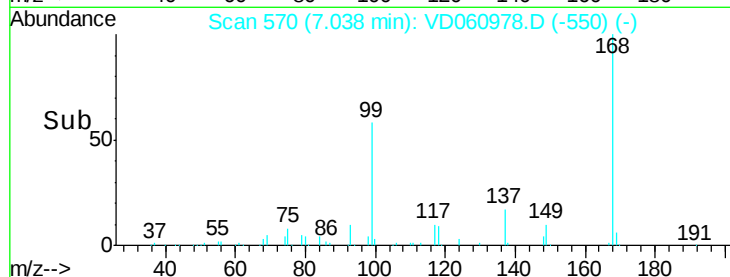
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.832 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.01 min

Lab File: VD060978.D

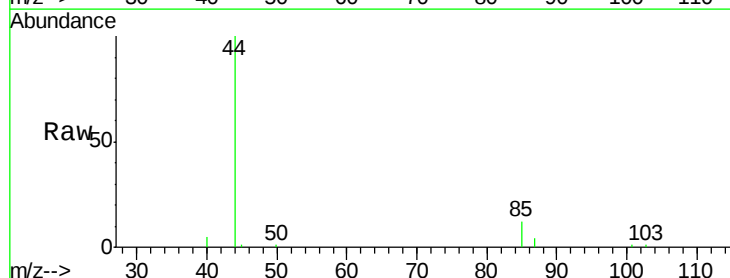
Acq: 8 Mar 2019 12:34

Tgt Ion: 85 Resp: 19409

Ion Ratio Lower Upper

85 100

87 30.1 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

8000

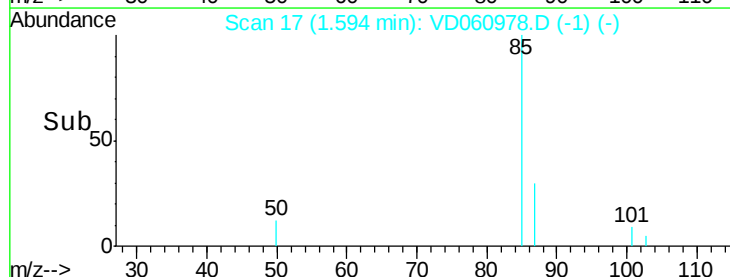
6000

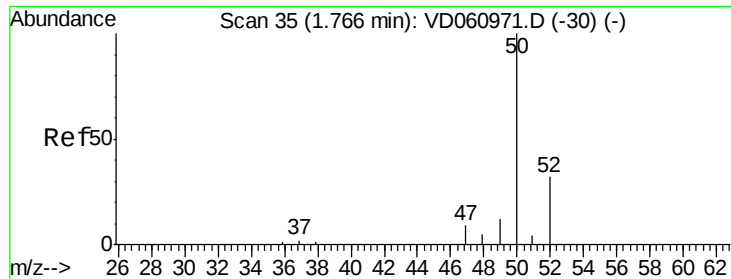
4000

2000

0

Time-->





#3

Chloromethane

Concen: 3.000 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

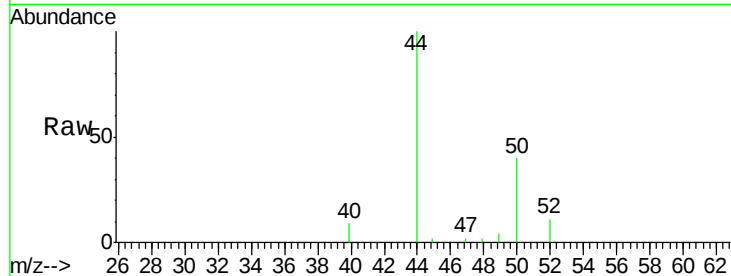
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 50 Resp: 17126

Ion Ratio Lower Upper

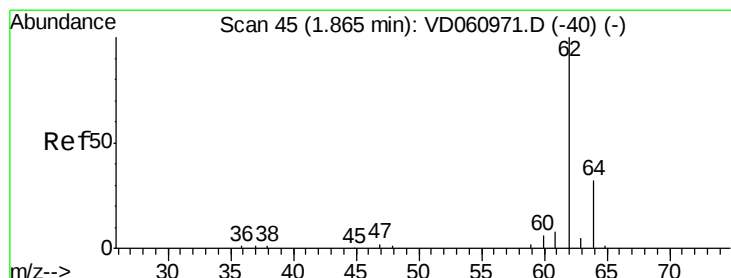
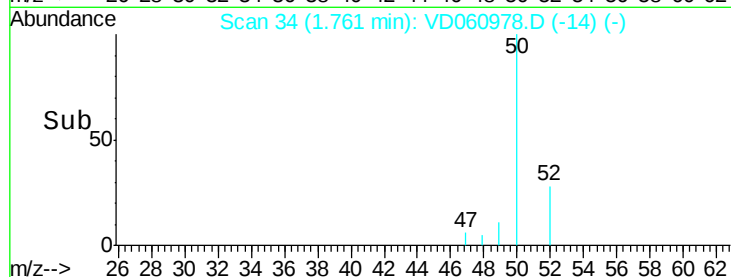
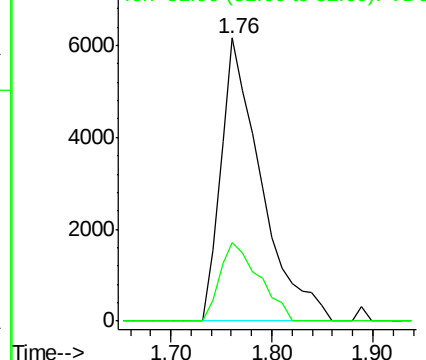
50 100

52 27.7 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.448 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD060978.D

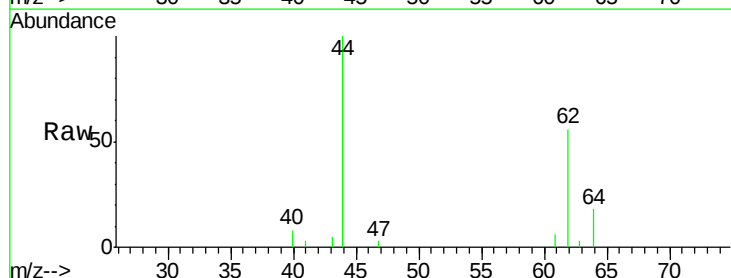
Acq: 8 Mar 2019 12:34

Tgt Ion: 62 Resp: 12916

Ion Ratio Lower Upper

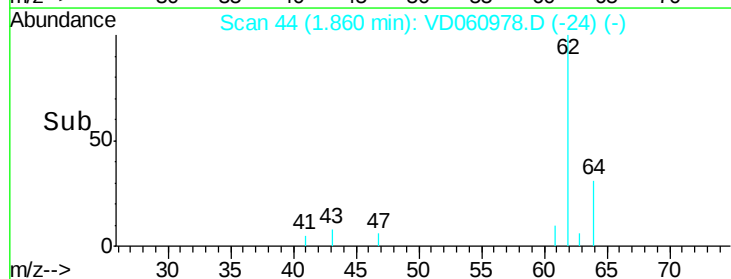
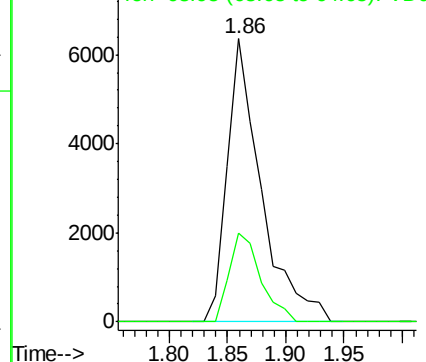
62 100

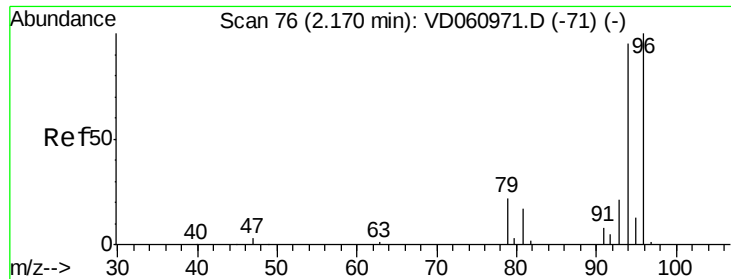
64 31.2 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 4.453 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

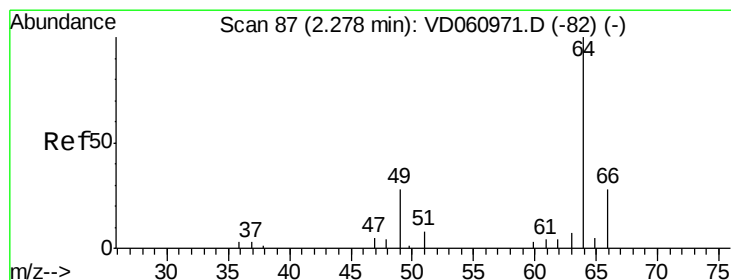
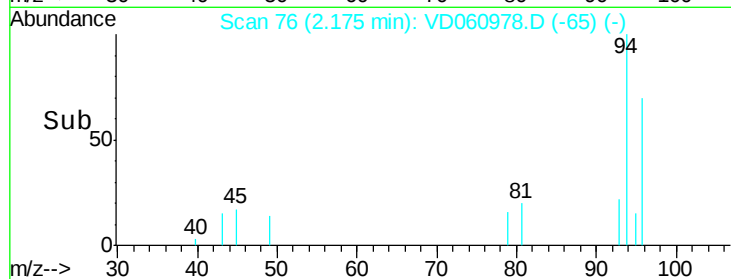
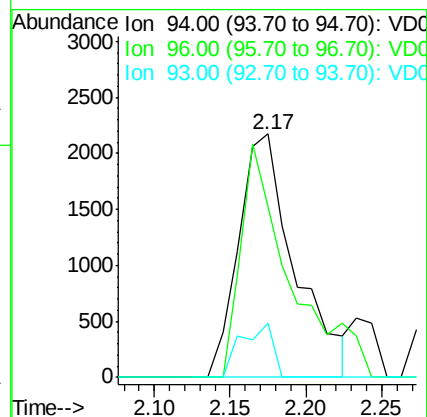
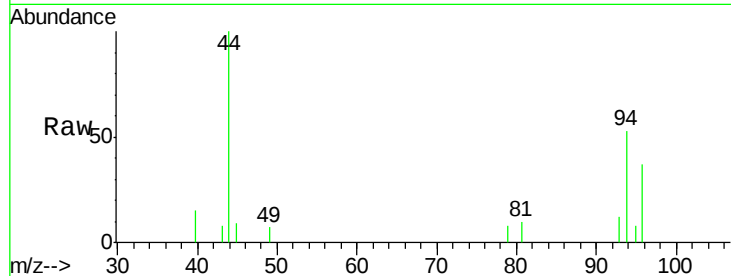
Tot Ion: 94 Resp: 5594

Ion Ratio Lower Upper

94 100

96 70.0 84.0 126.0#

93 22.4 17.3 25.9



#6

Chloroethane

Concen: 2.573 ug/l

RT: 2.28 min Scan# 87

Delta R.T. 0.00 min

Lab File: VD060978.D

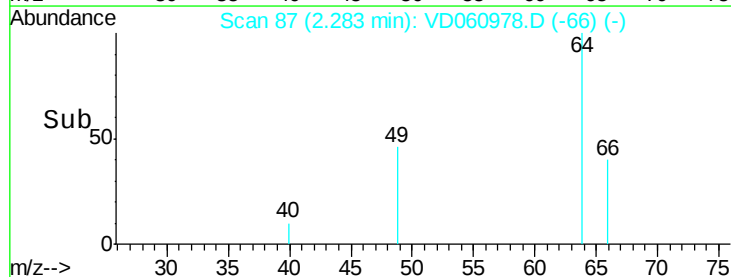
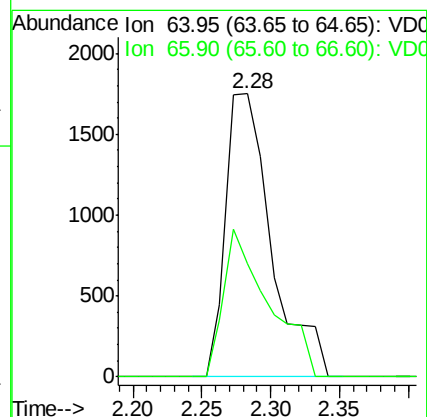
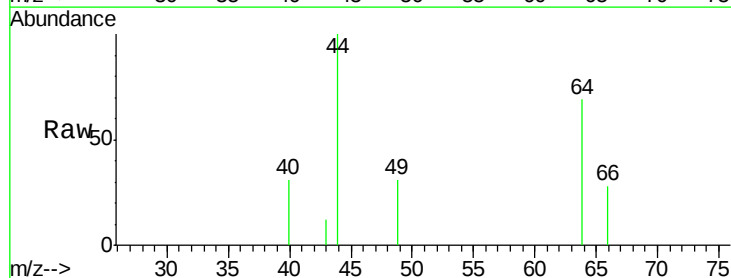
Acq: 8 Mar 2019 12:34

Tgt Ion: 64 Resp: 4063

Ion Ratio Lower Upper

64 100

66 40.1 22.2 33.2#



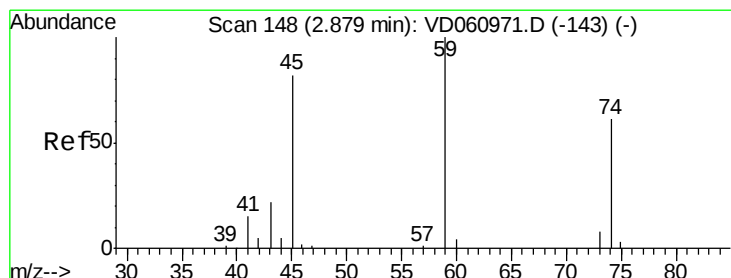
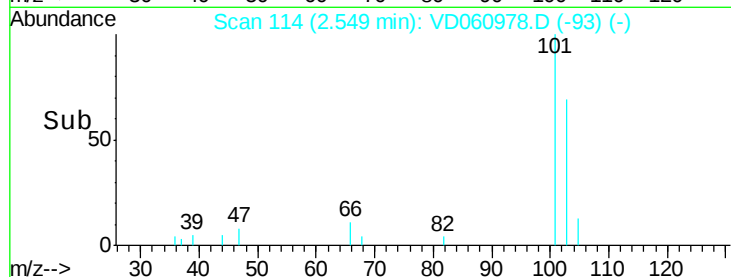
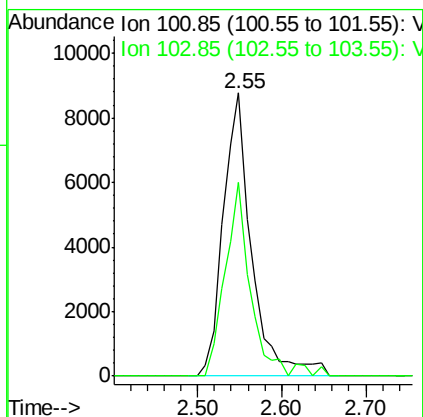
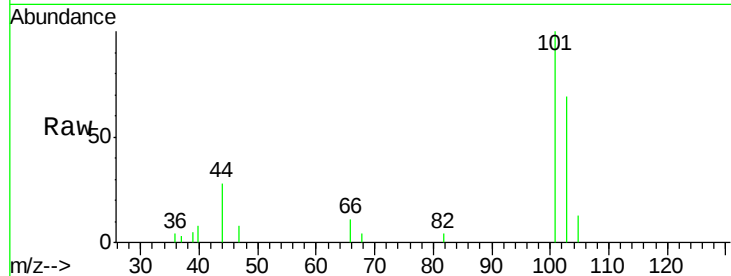


#7

Trichlorofluoromethane
 Concen: 2.702 ug/l
 RT: 2.55 min Scan# 114
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

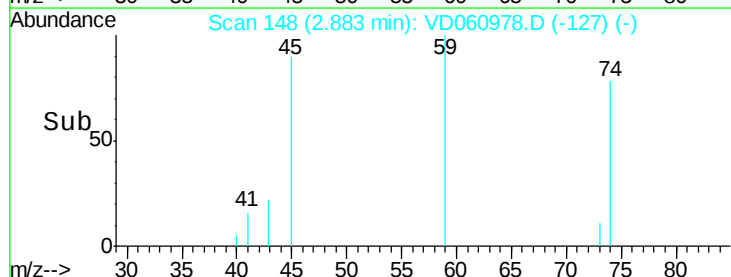
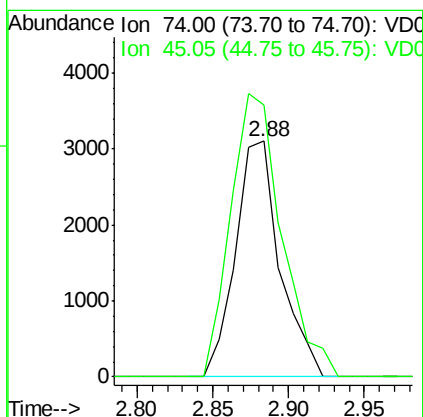
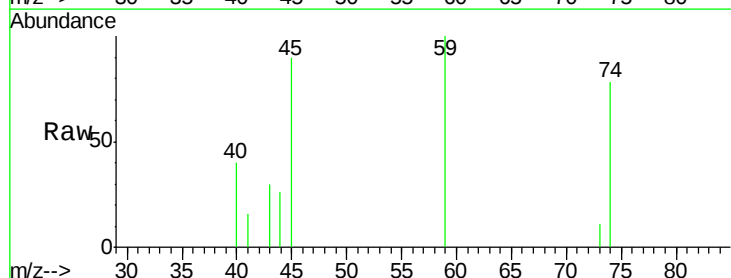
Tot Ion:101 Resp: 20473
 Ion Ratio Lower Upper
 101 100
 103 68.6 51.2 76.8

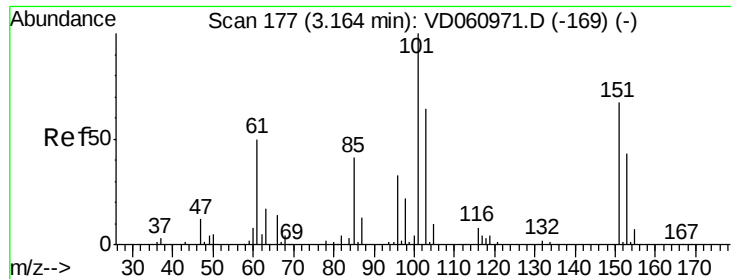


#8

Diethyl Ether
 Concen: 2.538 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion: 74 Resp: 6344
 Ion Ratio Lower Upper
 74 100
 45 115.1 67.0 201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.728 ug/l

RT: 3.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

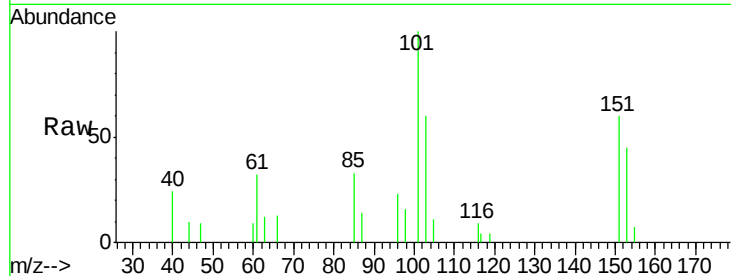
Tot Ion:101 Resp: 23116

Ion Ratio Lower Upper

101 100

85 32.5 32.5 48.7

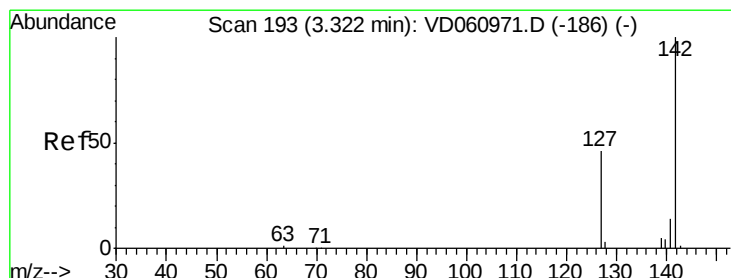
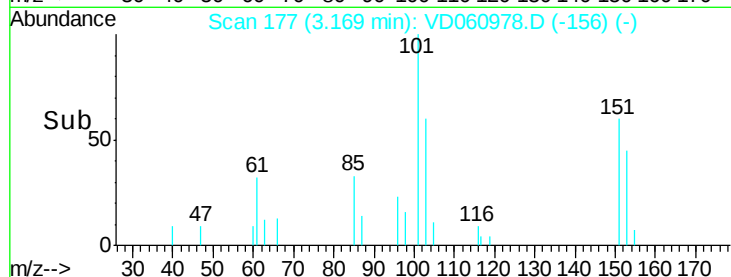
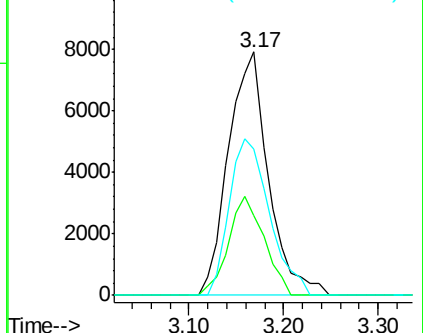
151 60.4 53.3 79.9



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 4.698 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

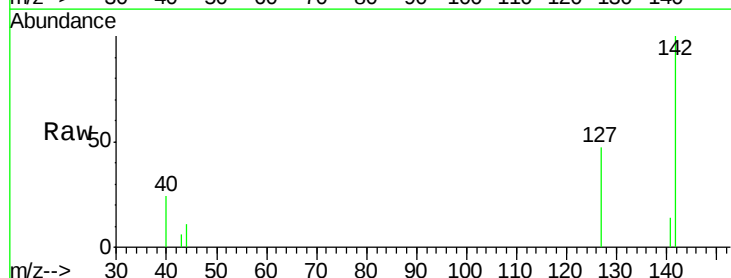
Tgt Ion:142 Resp: 21865

Ion Ratio Lower Upper

142 100

127 46.9 36.8 55.2

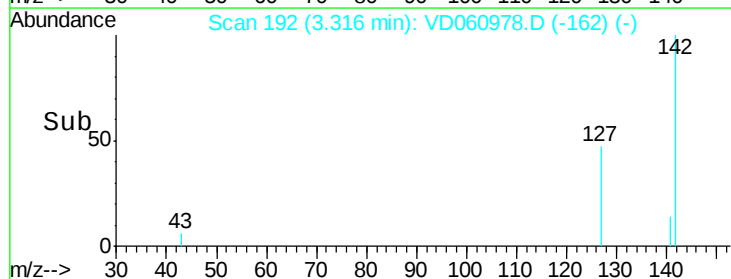
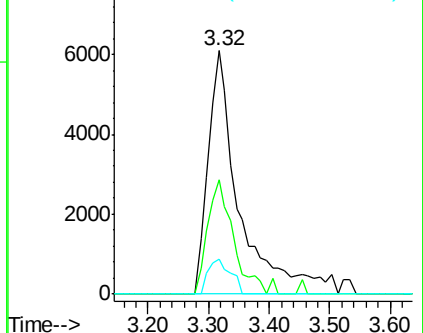
141 14.5 11.2 16.8

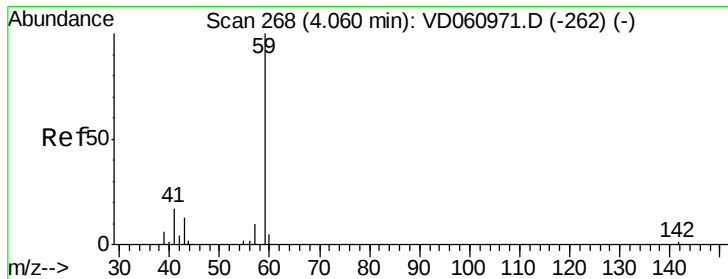


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



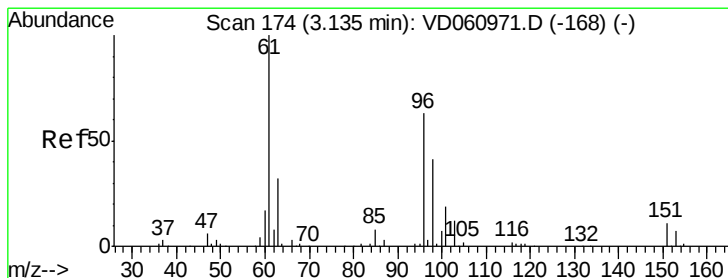
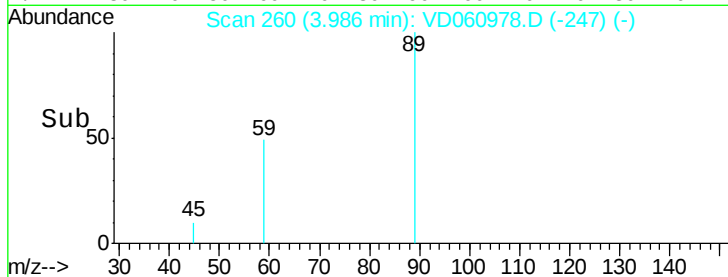
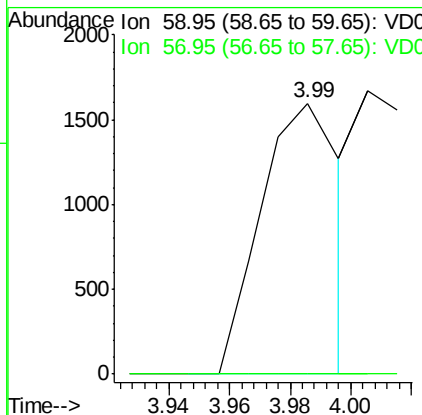
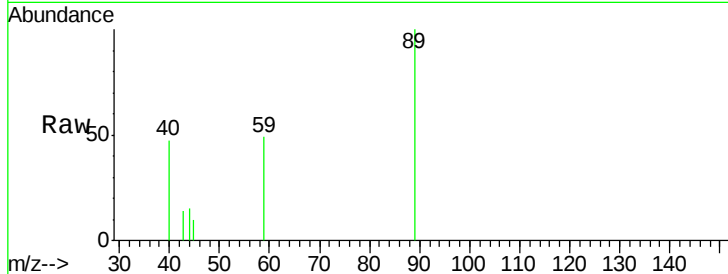


#11

Tert butyl alcohol
Concen: 7.956 ug/l
RT: 3.99 min Scan# 260
Delta R.T. -0.07 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

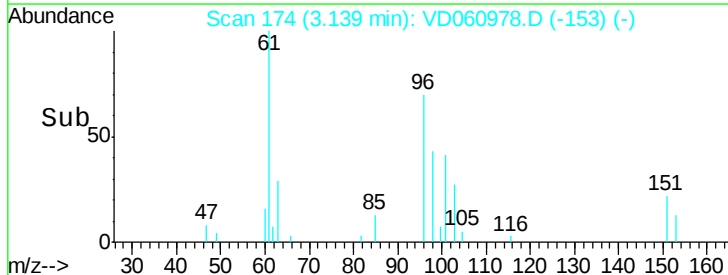
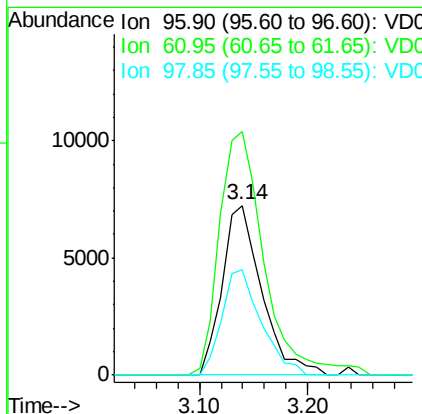
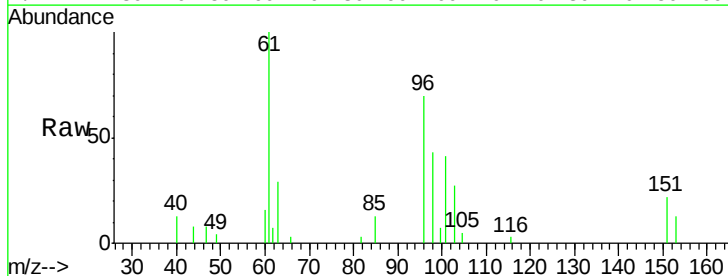
Tot Ion: 59 Resp: 2917
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#

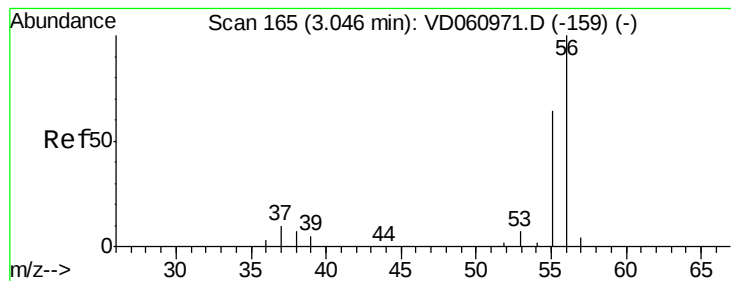


#12

1,1-Dichloroethene
Concen: 2.650 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 96 Resp: 18406
Ion Ratio Lower Upper
96 100
61 143.4 127.1 190.7
98 62.4 51.5 77.3





#13

Acrolein

Concen: 14.019 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

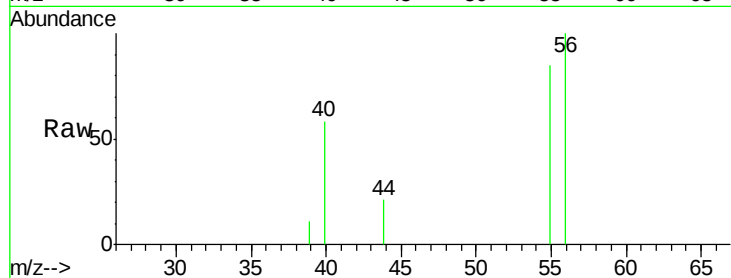
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 56 Resp: 7437

Ion Ratio Lower Upper

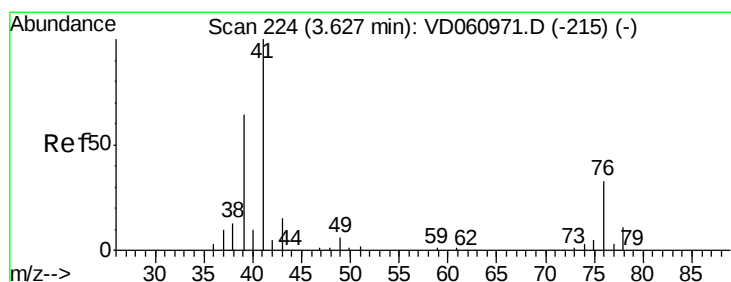
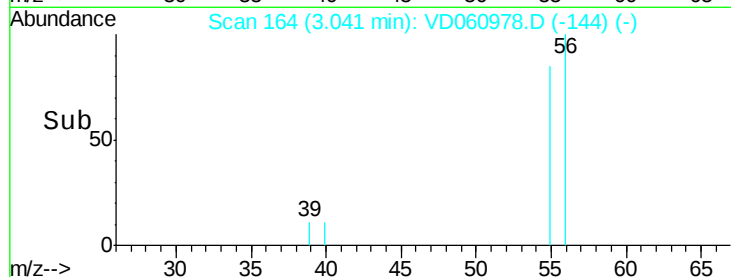
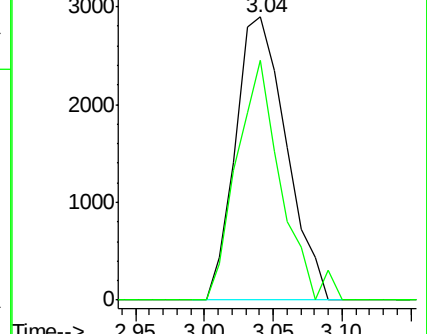
56 100

55 84.7 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.623 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

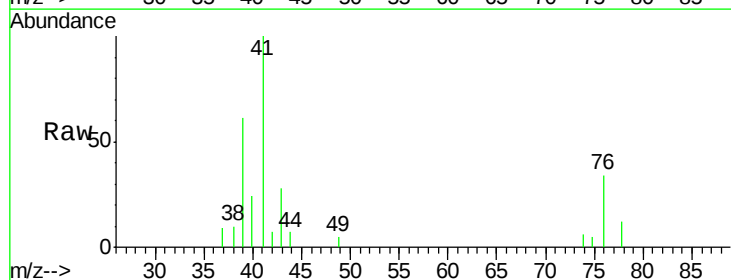
Tgt Ion: 41 Resp: 29146

Ion Ratio Lower Upper

41 100

39 61.2 51.1 76.7

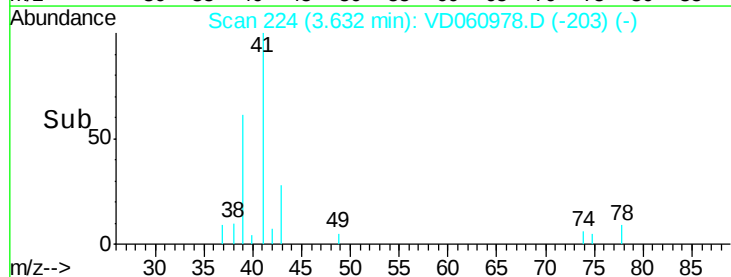
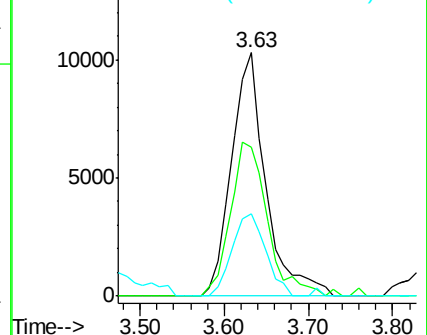
76 34.0 29.1 43.7

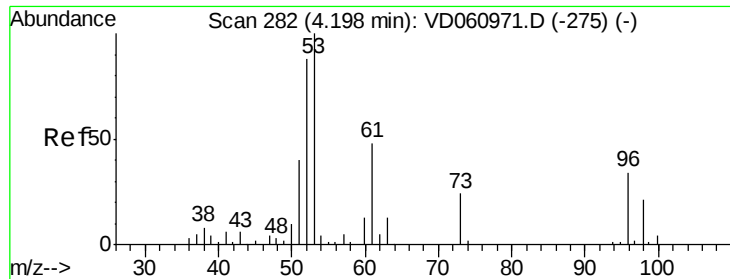


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 14.346 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

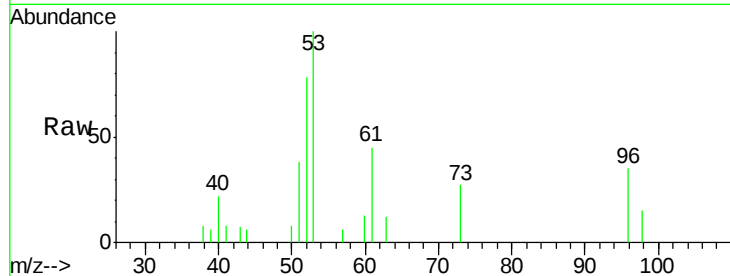
Tot Ion: 53 Resp: 18590

Ion Ratio Lower Upper

53 100

52 77.8 70.2 105.4

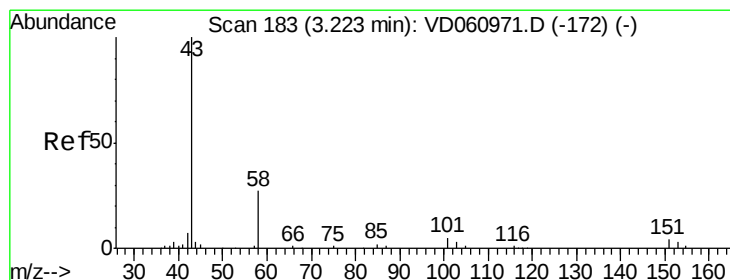
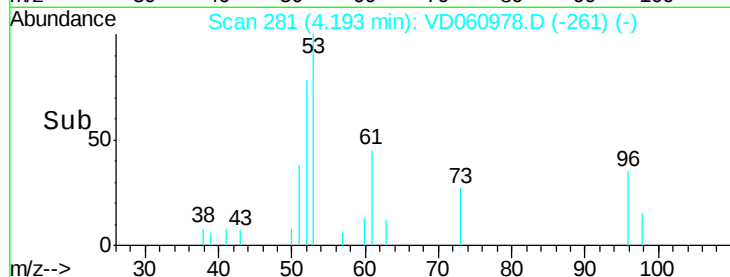
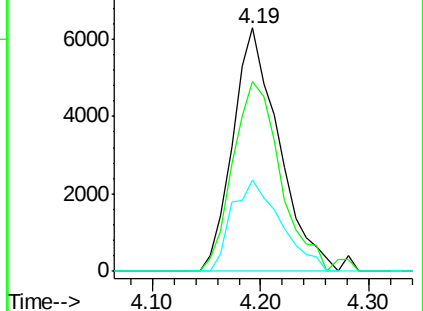
51 37.6 31.7 47.5



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



#16

Acetone

Concen: 14.733 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD060978.D

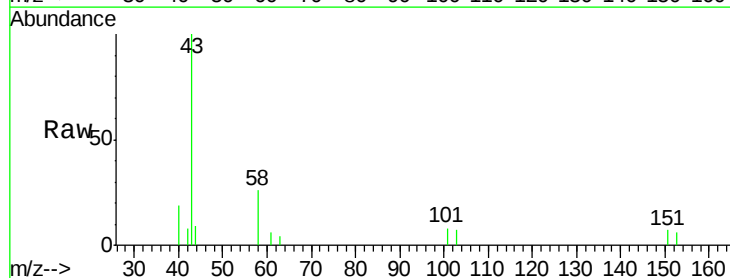
Acq: 8 Mar 2019 12:34

Tgt Ion: 43 Resp: 24263

Ion Ratio Lower Upper

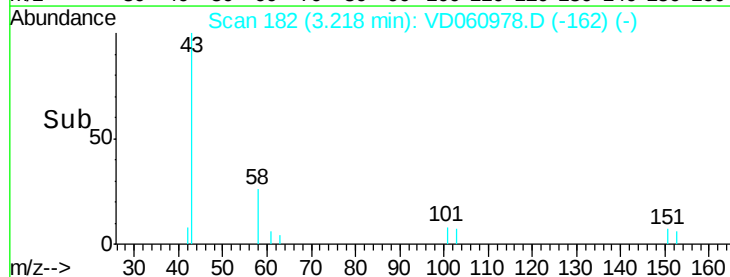
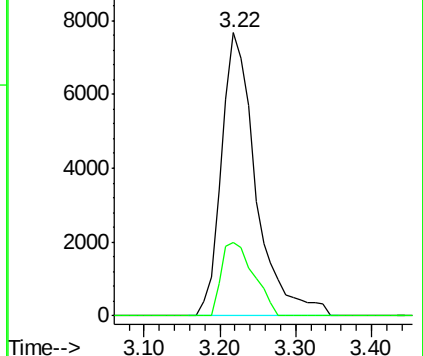
43 100

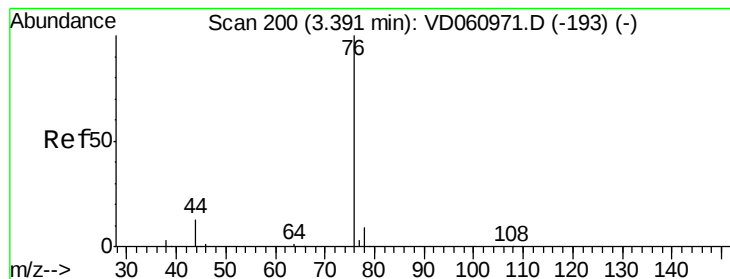
58 26.0 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 2.788 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

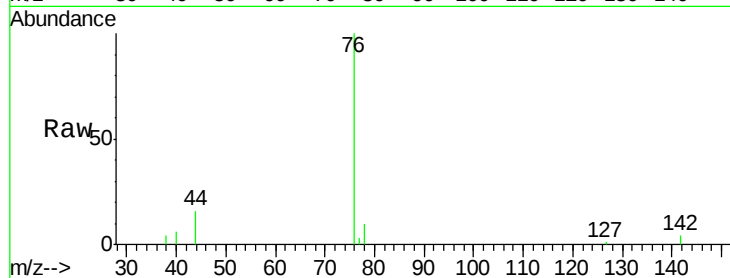
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 76 Resp: 65326

Ion Ratio Lower Upper

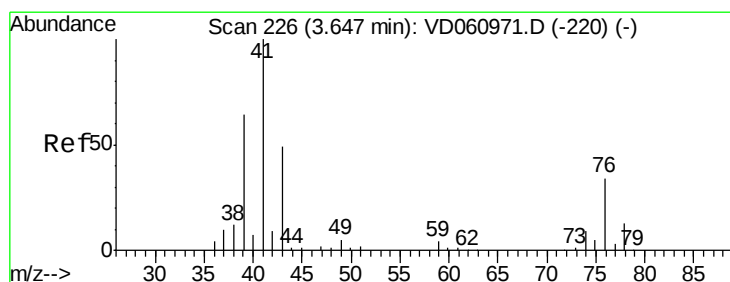
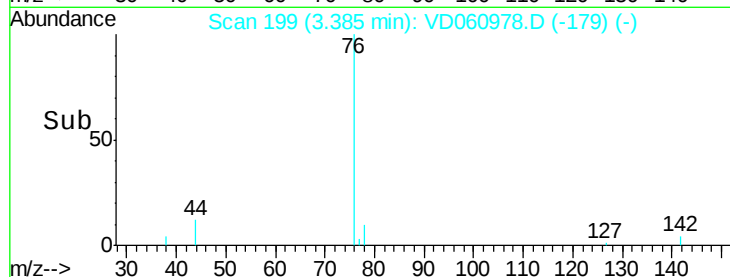
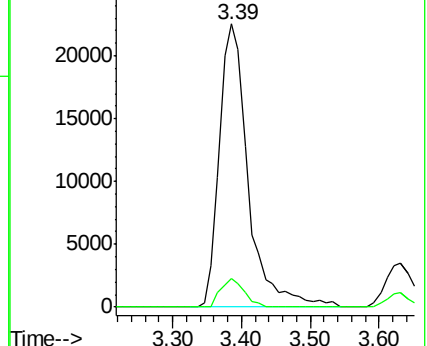
76 100

78 10.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 3.024 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD060978.D

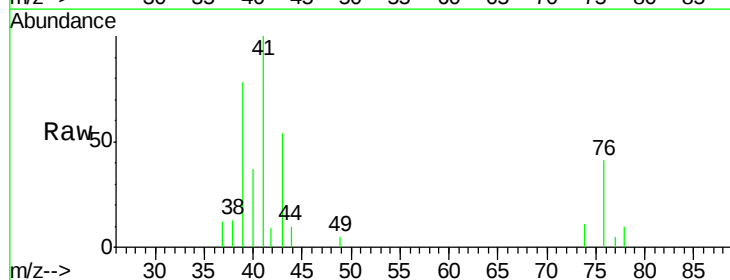
Acq: 8 Mar 2019 12:34

Tgt Ion: 43 Resp: 9802

Ion Ratio Lower Upper

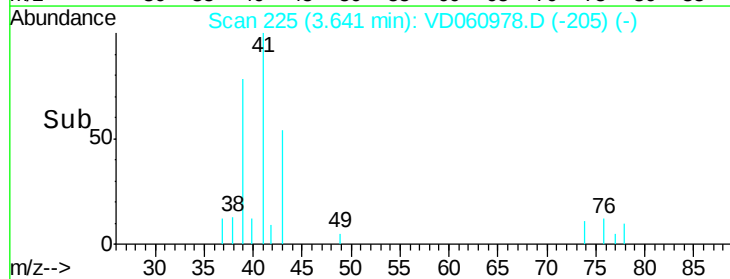
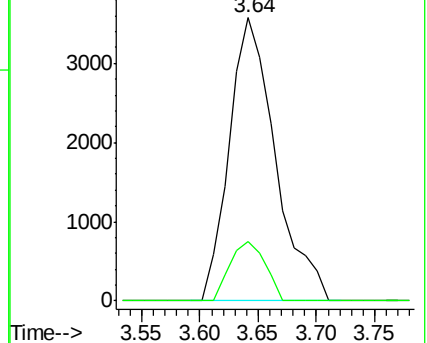
43 100

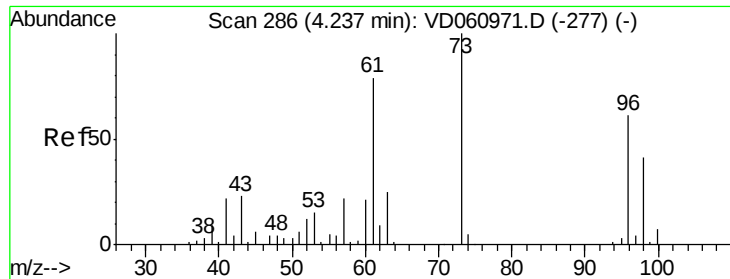
74 21.2 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

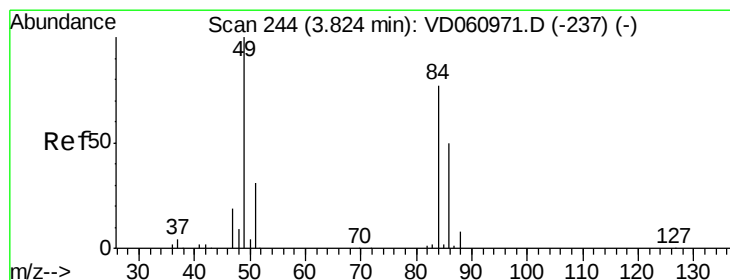
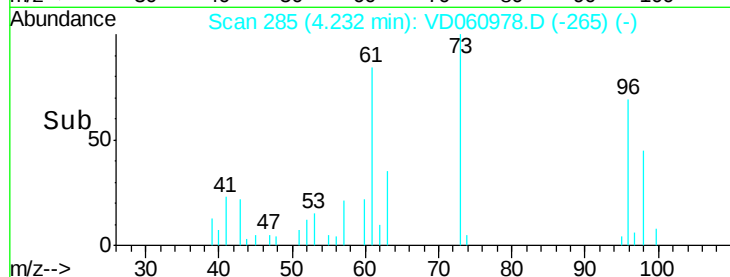
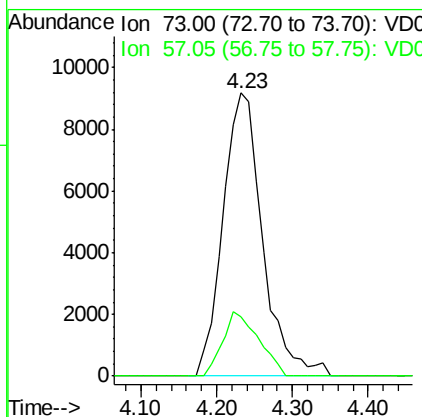
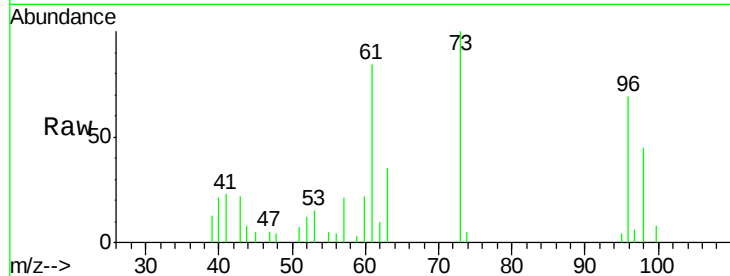




#19
Methyl tert-butyl Ether
Concen: 2.730 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

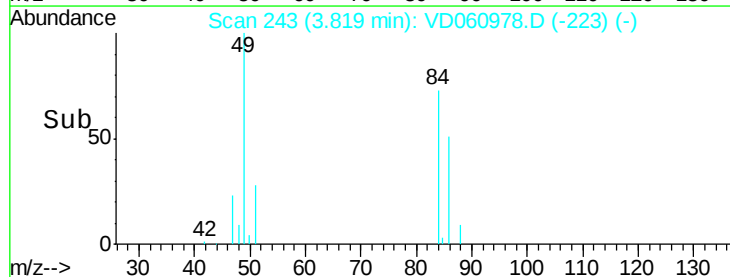
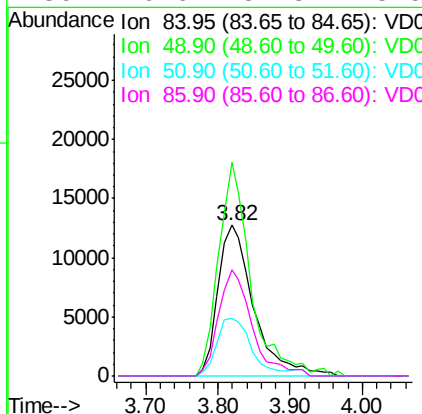
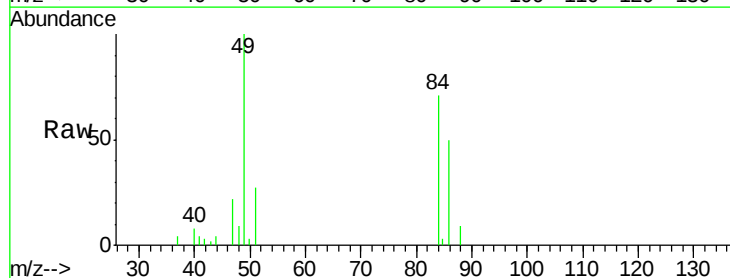
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

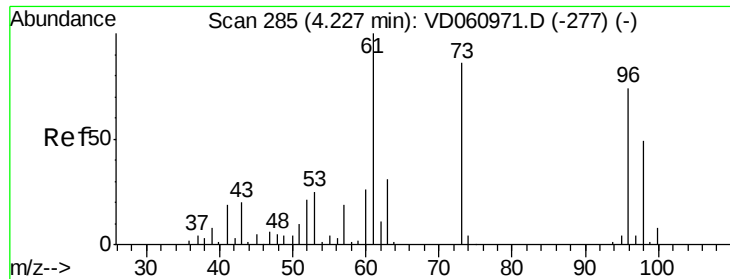
Tot Ion: 73 Resp: 33231
Ion Ratio Lower Upper
73 100
57 21.2 17.7 26.5



#20
Methylene Chloride
Concen: 1.272 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 84 Resp: 43681
Ion Ratio Lower Upper
84 100
49 141.6 104.2 156.2
51 38.3 32.3 48.5
86 70.6 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 2.785 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

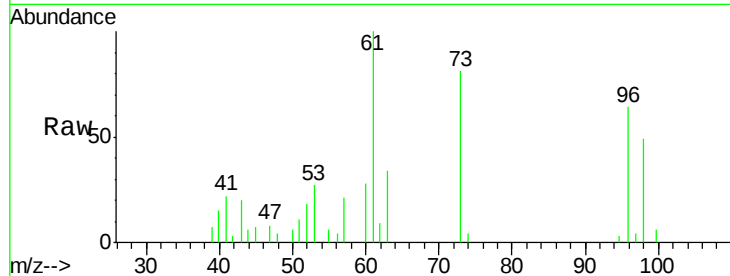
Tot Ion: 96 Resp: 20936

Ion Ratio Lower Upper

96 100

61 156.6 108.4 162.6

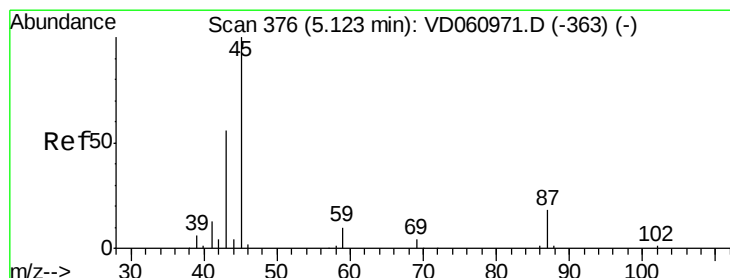
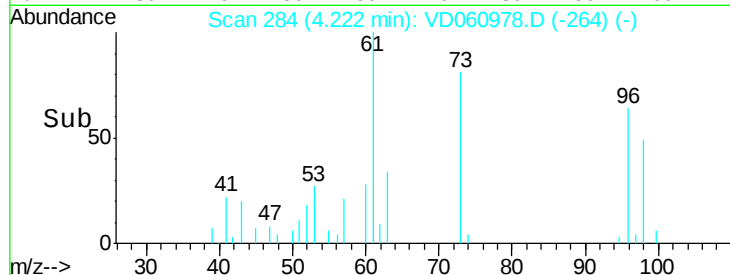
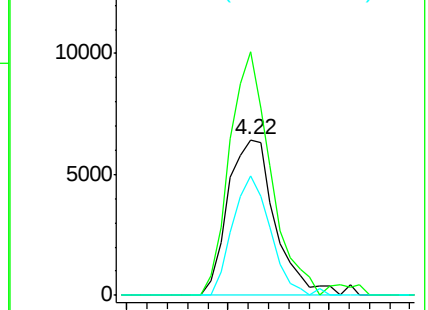
98 76.6 53.0 79.4



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



#22

Diisopropyl ether

Concen: 2.733 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.02 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Tgt Ion: 45 Resp: 63050

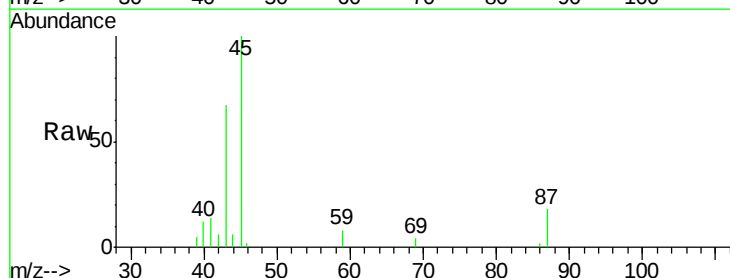
Ion Ratio Lower Upper

45 100

43 66.6 45.8 68.8

87 18.3 14.9 22.3

59 8.3 8.0 12.0

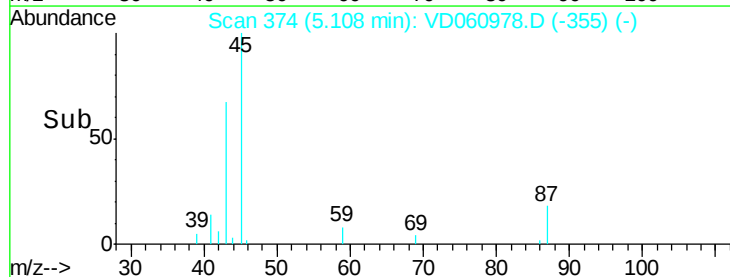
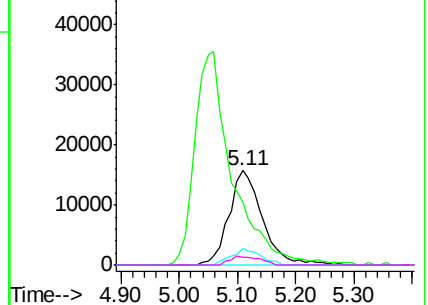


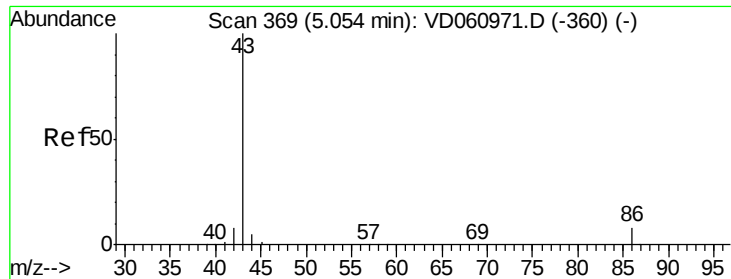
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 13.081 ug/l

RT: 5.06 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

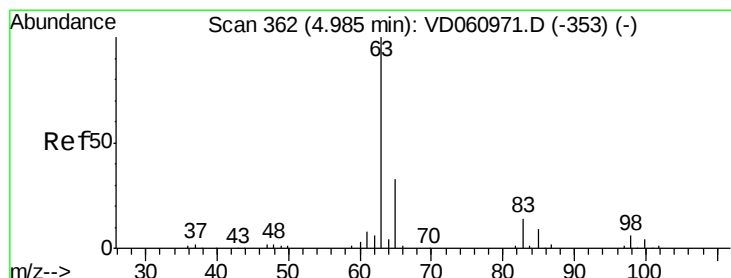
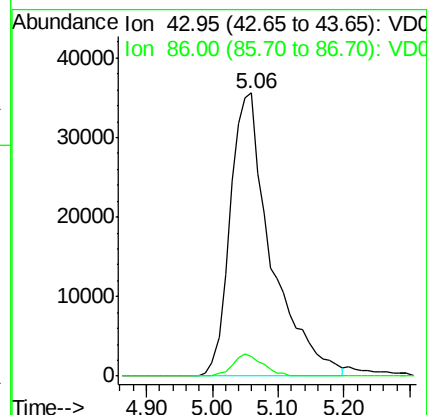
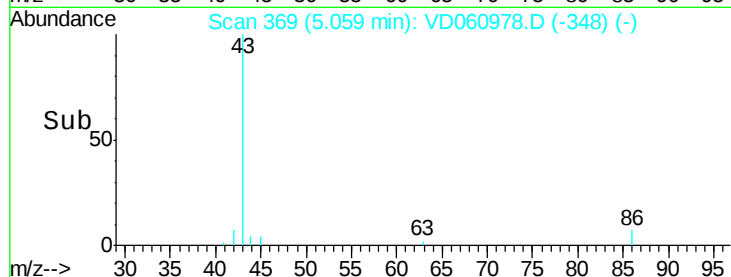
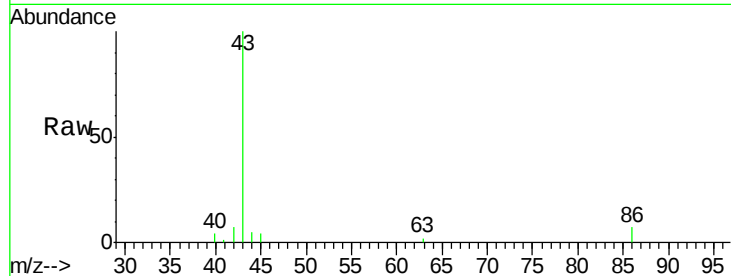
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 154902

Ion Ratio Lower Upper

43 100

86 6.8 6.2 9.2



#24

1,1-Dichloroethane

Concen: 2.782 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

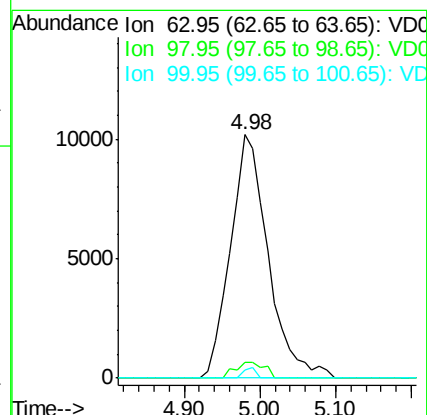
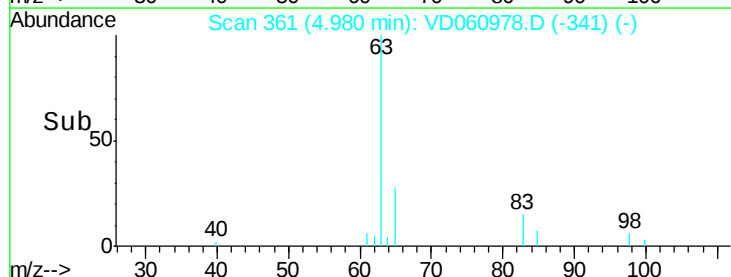
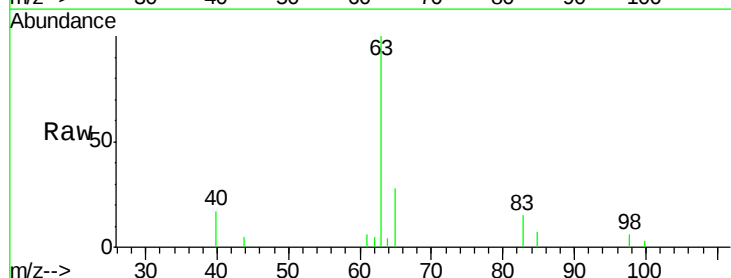
Tgt Ion: 63 Resp: 35161

Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.2

100 3.2 2.0 5.8





#25

2-Butanone

Concen: 13.927 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

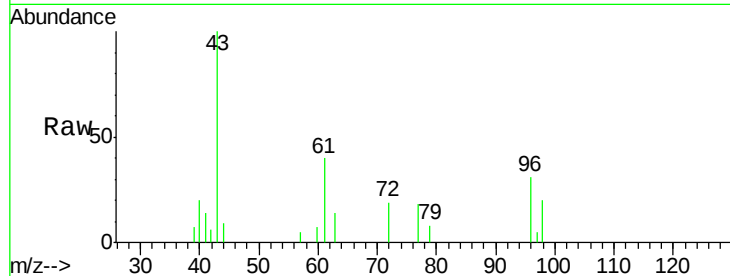
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 26025

Ion Ratio Lower Upper

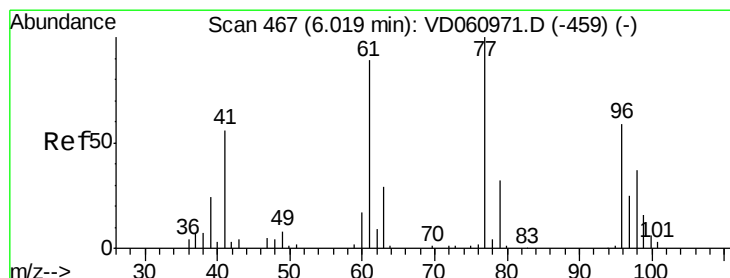
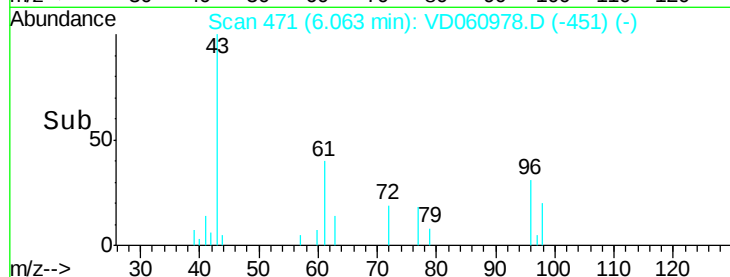
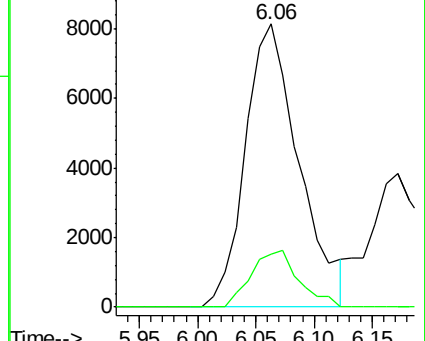
43 100

72 18.6 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.741 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.01 min

Lab File: VD060978.D

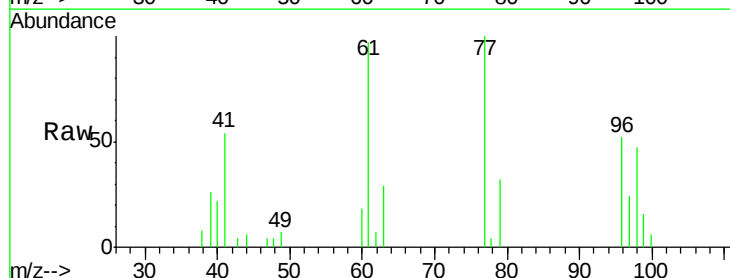
Acq: 8 Mar 2019 12:34

Tgt Ion: 77 Resp: 27042

Ion Ratio Lower Upper

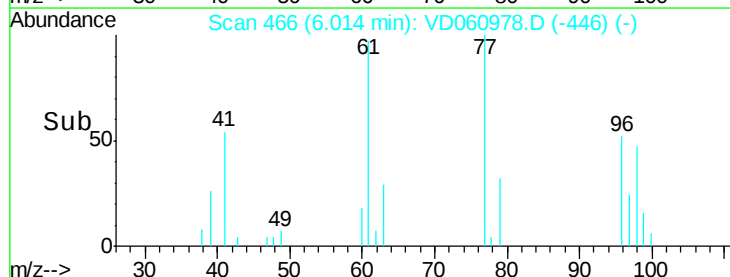
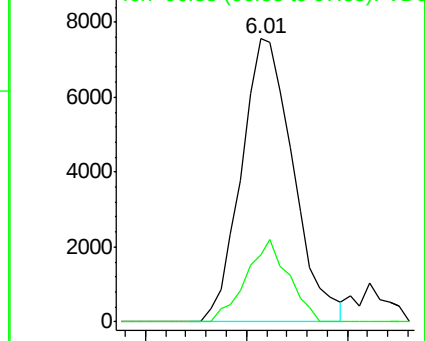
77 100

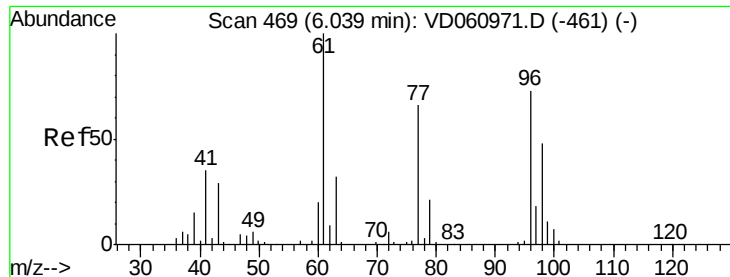
97 23.8 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



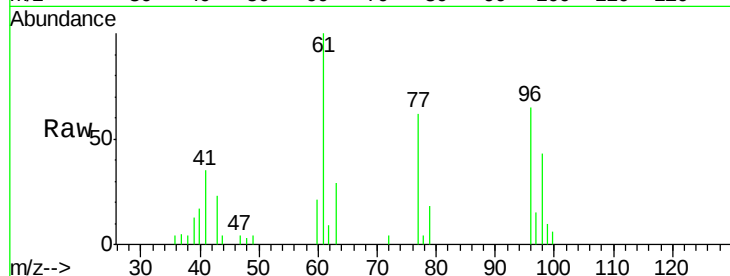


#27

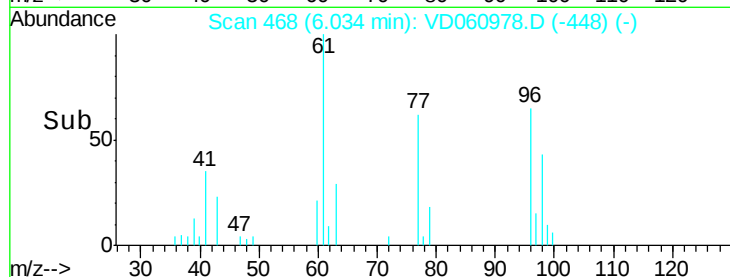
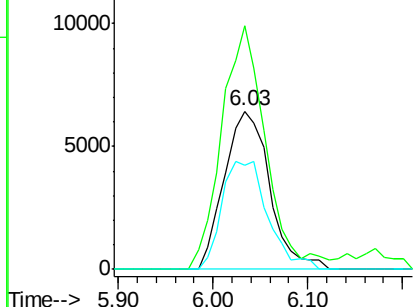
cis-1,2-Dichloroethene
Concen: 2.685 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 96 Resp: 21418
Ion Ratio Lower Upper
96 100
61 154.1 0.0 273.6
98 65.6 0.0 132.6



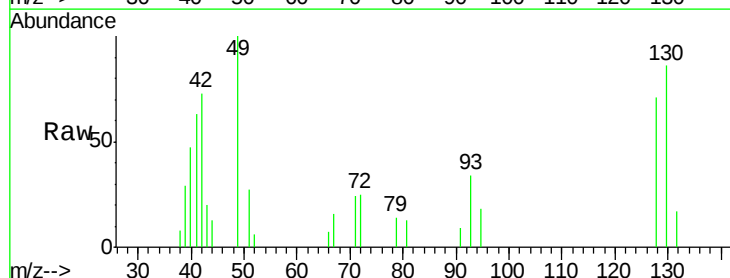
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



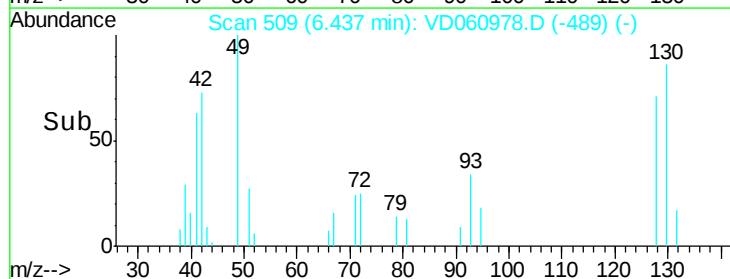
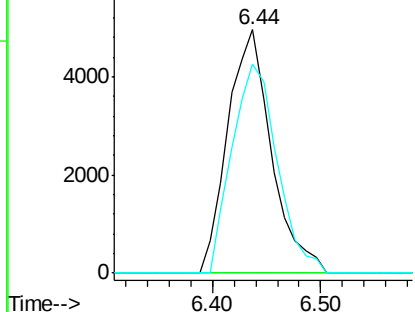
#28

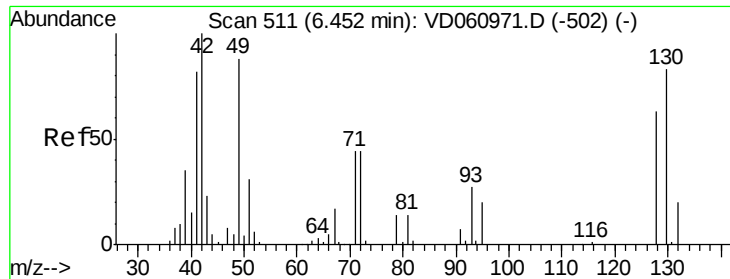
Bromochloromethane
Concen: 2.611 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 49 Resp: 13970
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 85.7 73.8 110.8



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

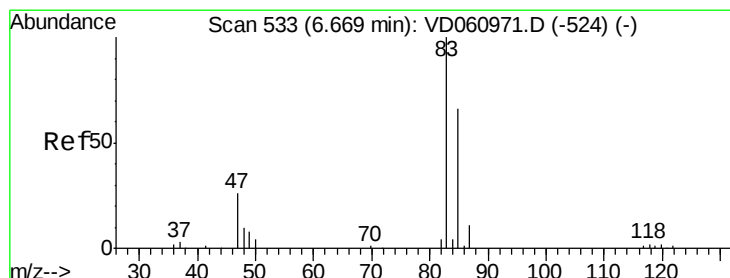
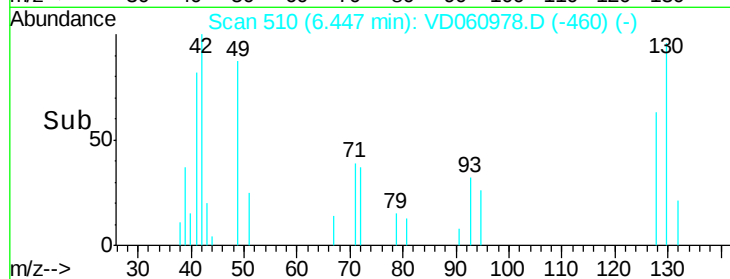
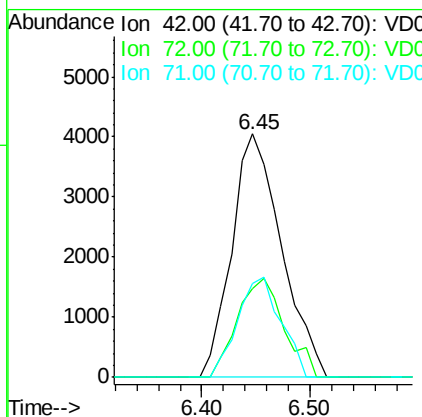
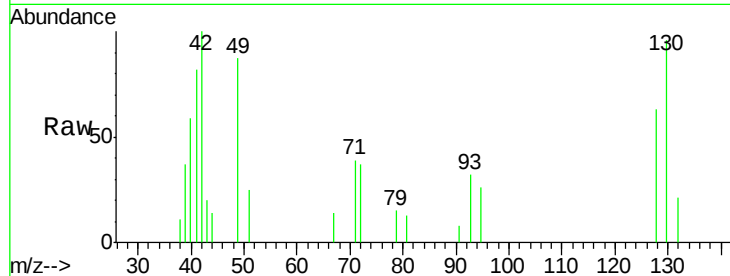




#29
Tetrahydrofuran
Concen: 12.796 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

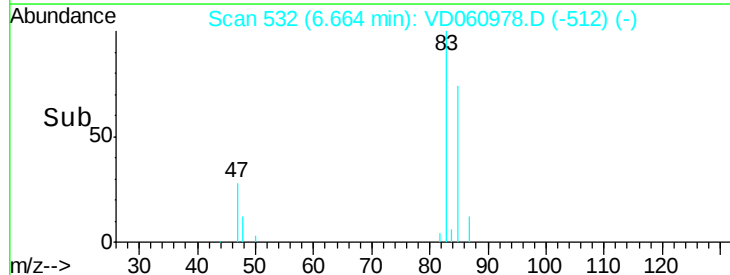
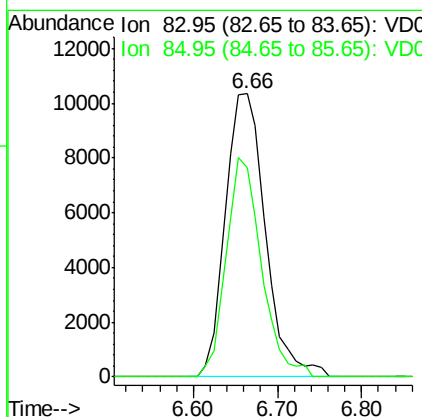
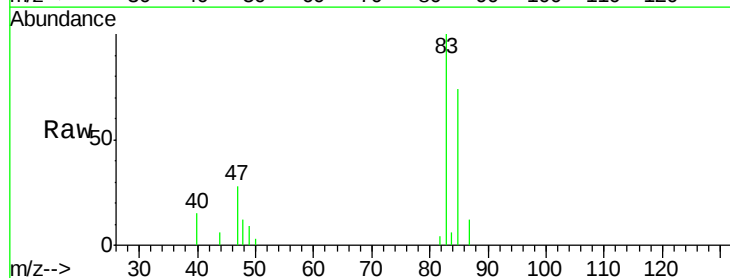
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

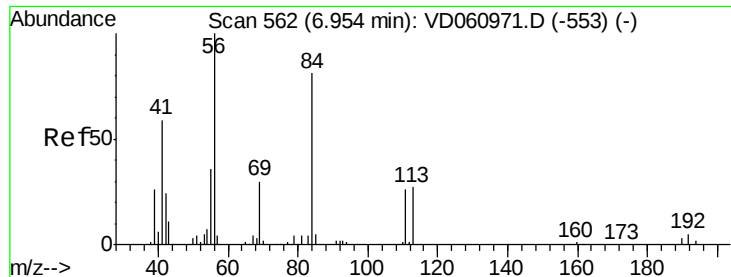
Tot Ion: 42 Resp: 12984
Ion Ratio Lower Upper
42 100
72 38.3 34.5 51.7
71 35.8 33.8 50.6



#30
Chloroform
Concen: 2.614 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 83 Resp: 34234
Ion Ratio Lower Upper
83 100
85 73.9 53.0 79.4





#31

Cvclohexane

Concen: 2.854 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

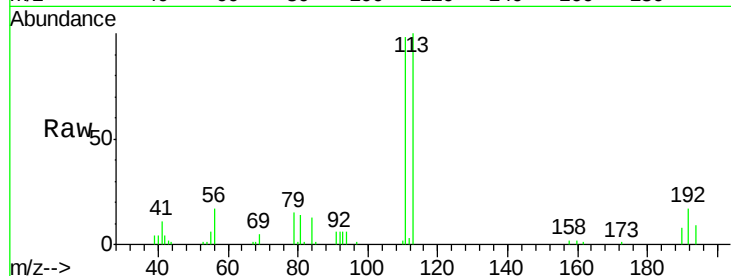
Tot Ion: 56 Resp: 29080

Ion Ratio Lower Upper

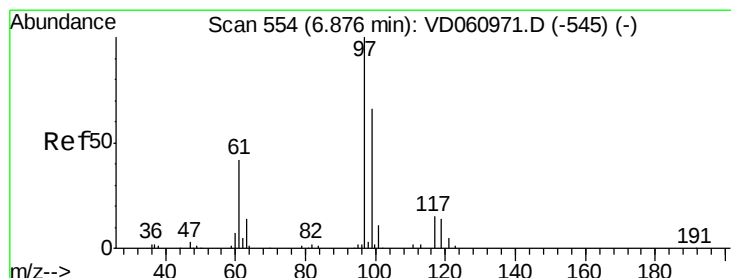
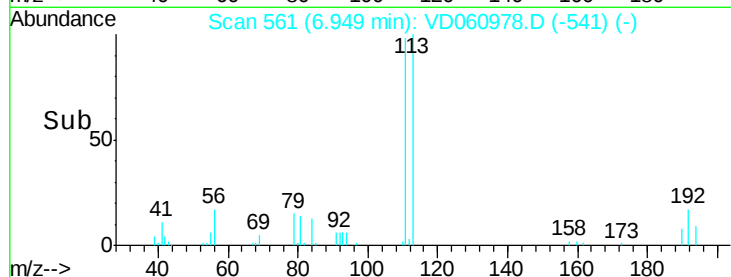
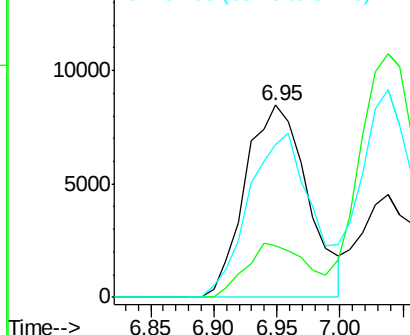
56 100

69 26.7 24.0 36.0

84 79.1 65.8 98.6



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



#32

1,1,1-Trichloroethane

Concen: 2.675 ug/l

RT: 6.86 min Scan# 552

Delta R.T. -0.02 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

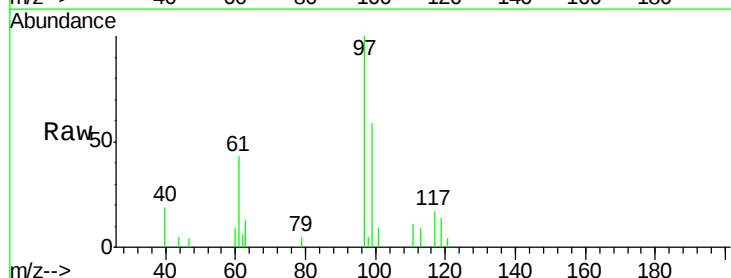
Tgt Ion: 97 Resp: 30294

Ion Ratio Lower Upper

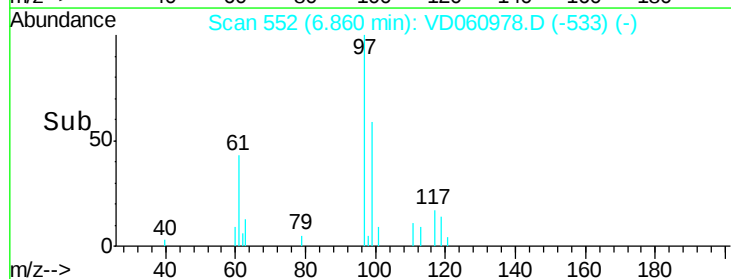
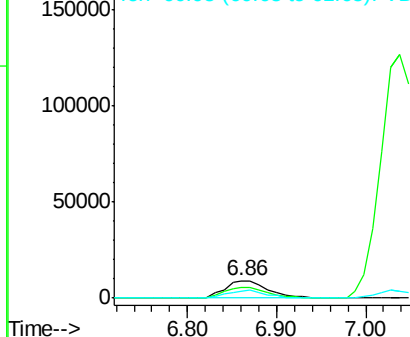
97 100

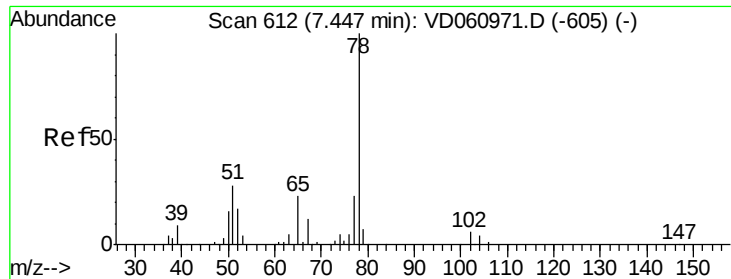
99 58.8 53.2 79.8

61 43.0 33.8 50.8



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





#33

1,2-Dichloroethane-d4

Concen: 2.675 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

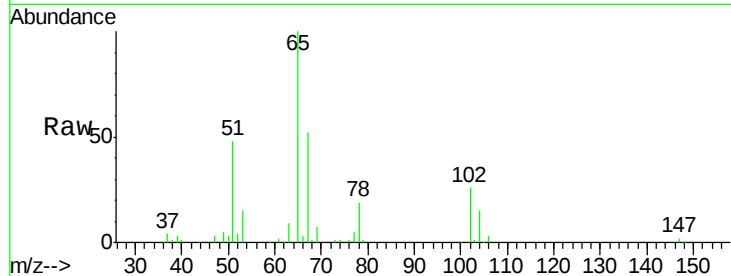
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 65 Resp: 328954

Ion Ratio Lower Upper

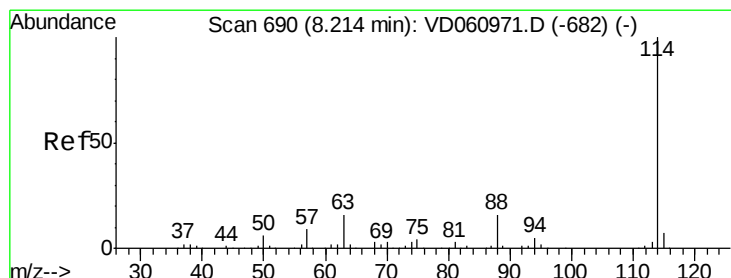
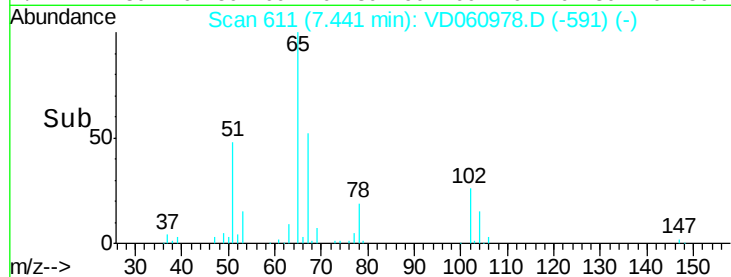
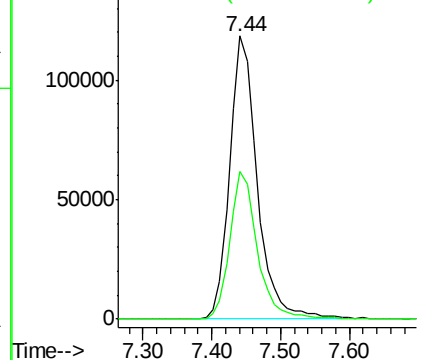
65 100

67 52.2 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

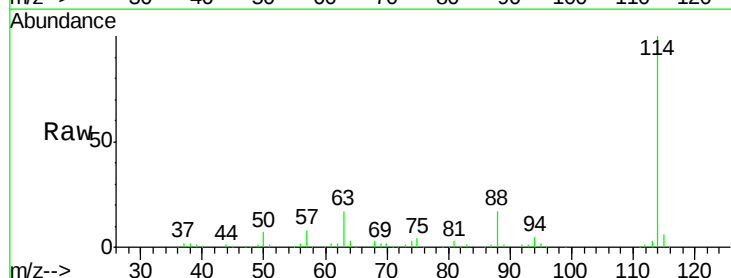
Tgt Ion: 114 Resp: 1276616

Ion Ratio Lower Upper

114 100

63 17.2 0.0 31.4

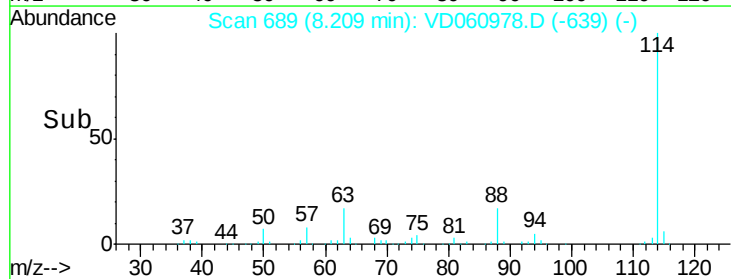
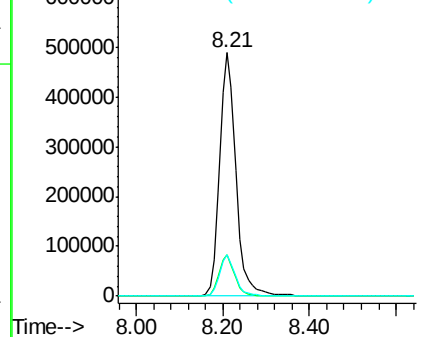
88 17.1 0.0 33.0

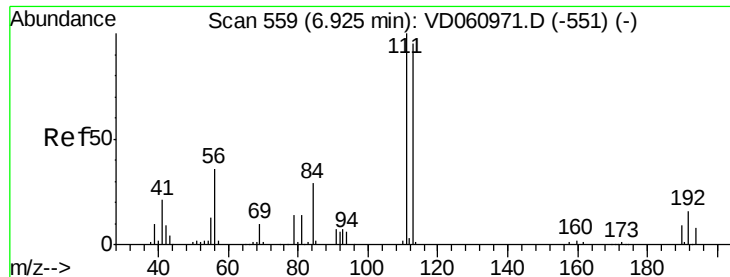


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

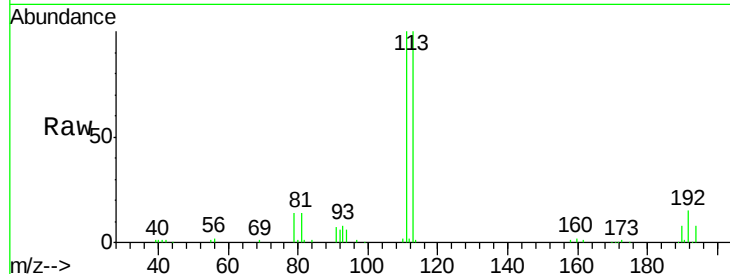
Tot Ion:113 Resp: 541785

Ion Ratio Lower Upper

113 100

111 99.8 84.2 126.4

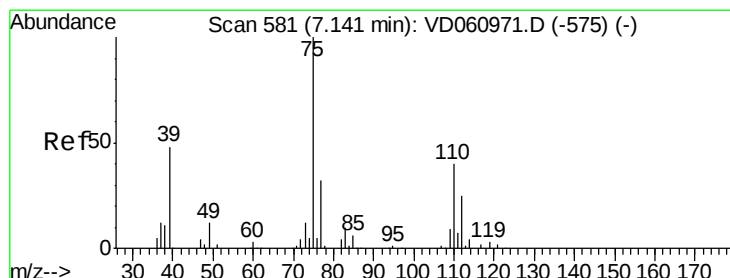
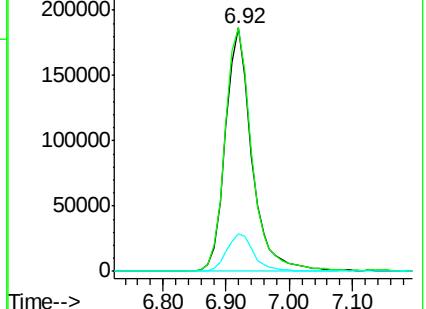
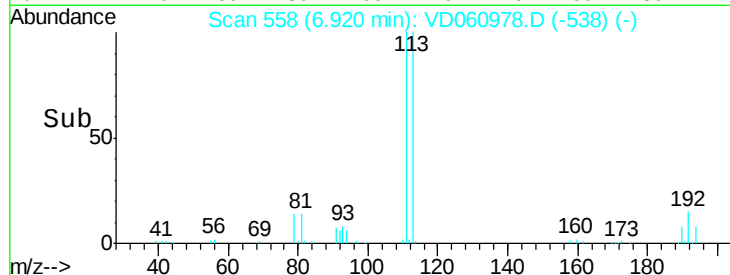
192 15.4 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 2.562 ug/l

RT: 7.14 min Scan# 580

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

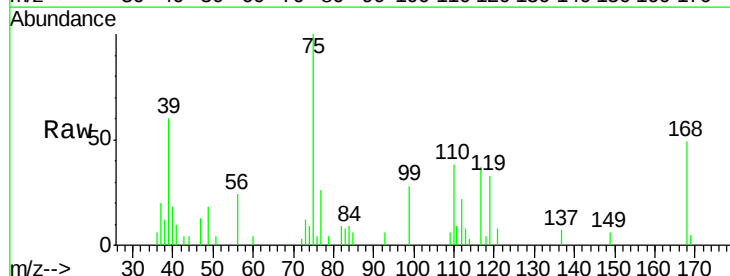
Tgt Ion: 75 Resp: 28191

Ion Ratio Lower Upper

75 100

110 38.5 19.7 59.1

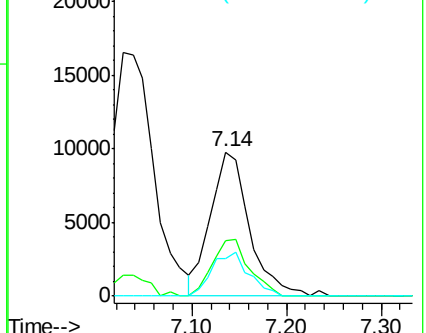
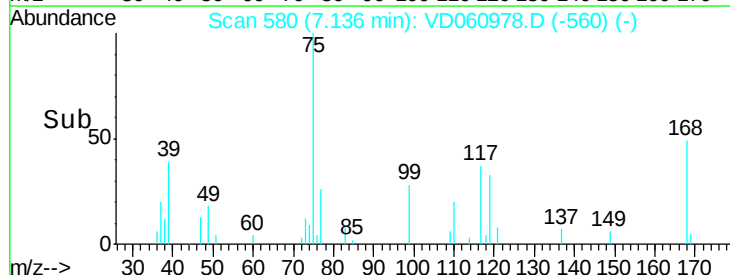
77 26.3 24.7 37.1

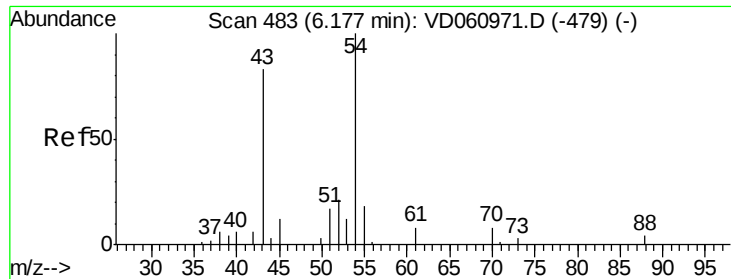


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 2.802 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

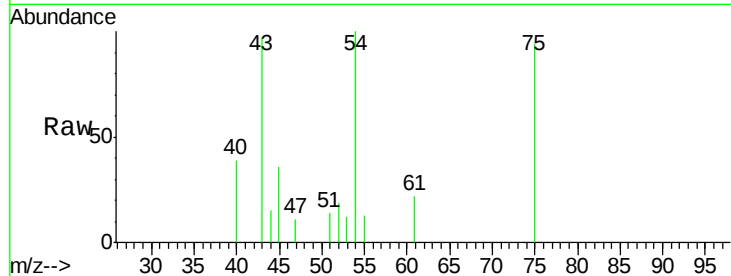
Tot Ion: 43 Resp: 14470

Ion Ratio Lower Upper

43 100

61 22.5 13.7 20.5#

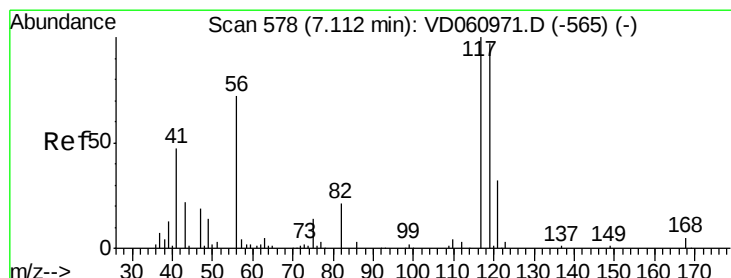
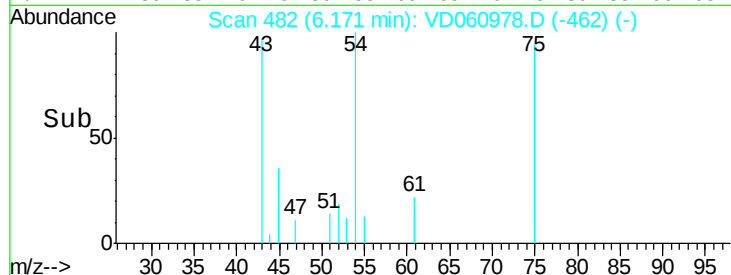
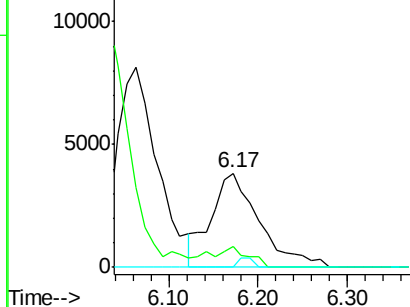
70 0.0 7.1 10.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 2.568 ug/l

RT: 7.11 min Scan# 577

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

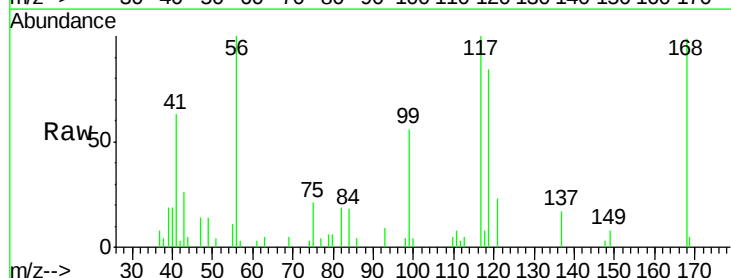
Tgt Ion: 117 Resp: 31127

Ion Ratio Lower Upper

117 100

119 83.6 77.8 116.8

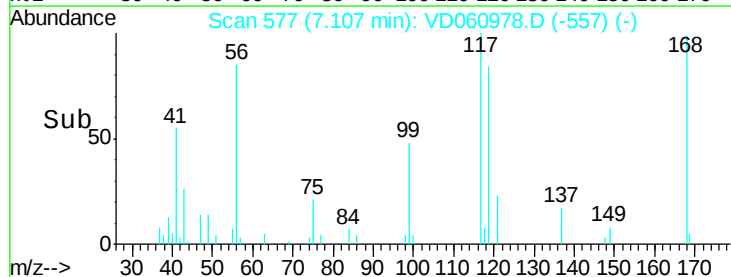
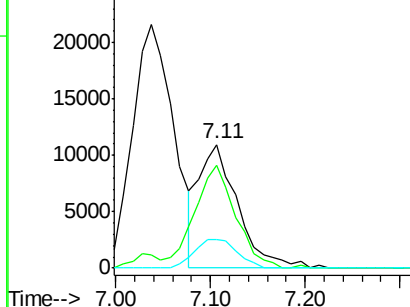
121 22.7 25.3 37.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 2.476 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

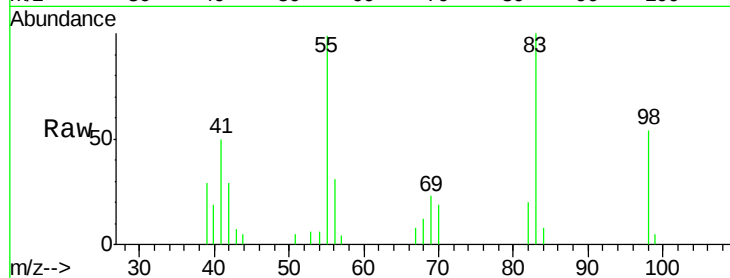
Tot Ion: 83 Resp: 28252

Ion Ratio Lower Upper

83 100

55 99.1 69.6 104.4

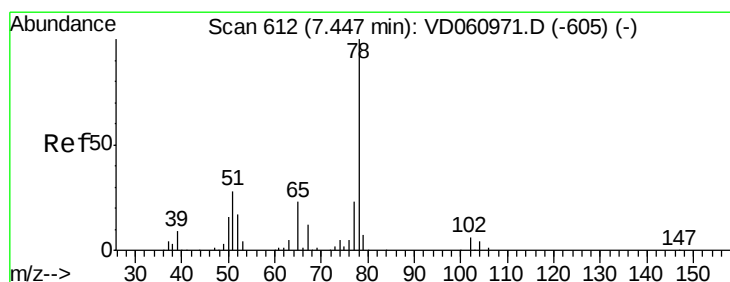
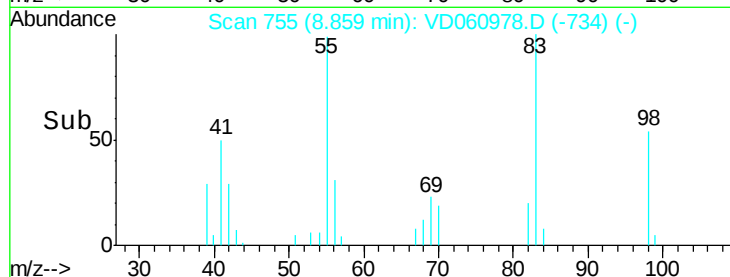
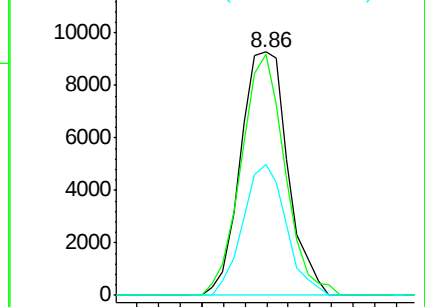
98 53.9 40.0 60.0



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: 2.359 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD060978.D

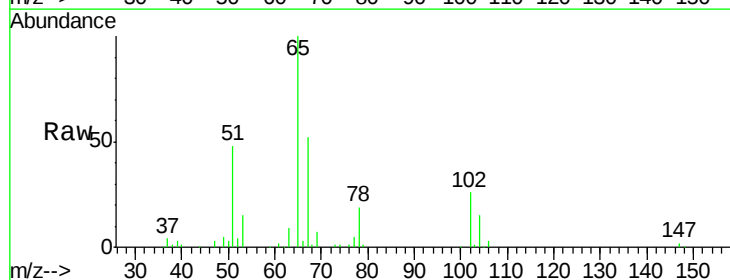
Acq: 8 Mar 2019 12:34

Tgt Ion: 78 Resp: 64856

Ion Ratio Lower Upper

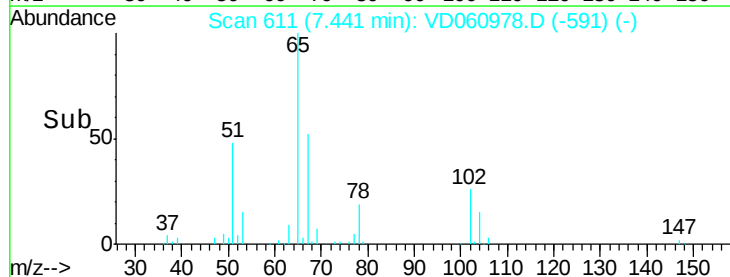
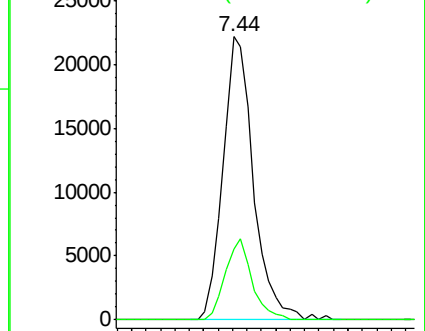
78 100

77 24.8 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

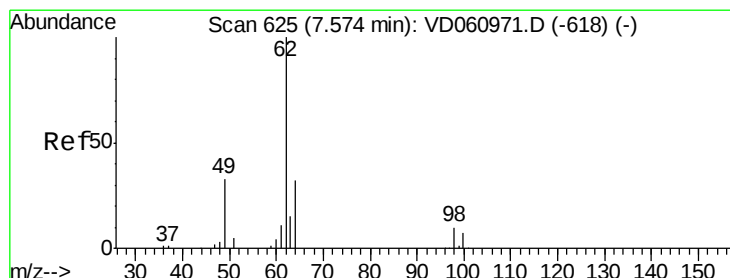
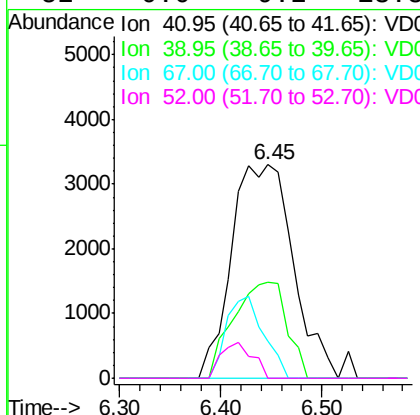
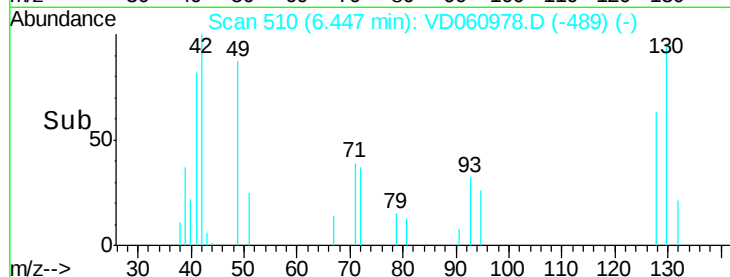
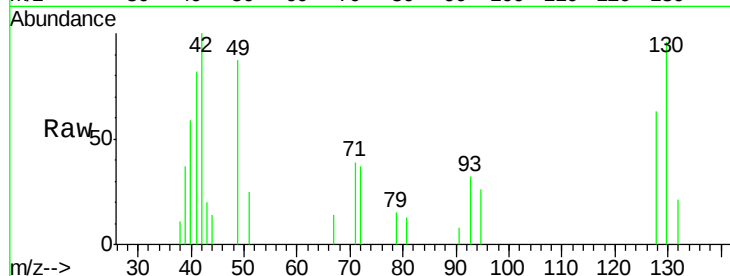




#41
Methacrylonitrile
Concen: 2.357 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

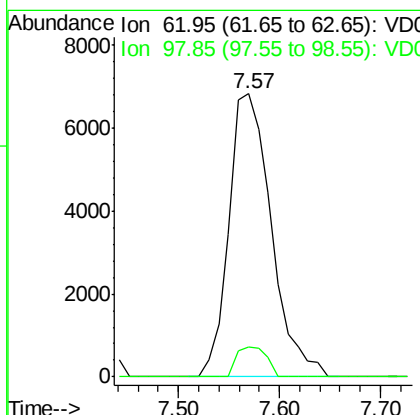
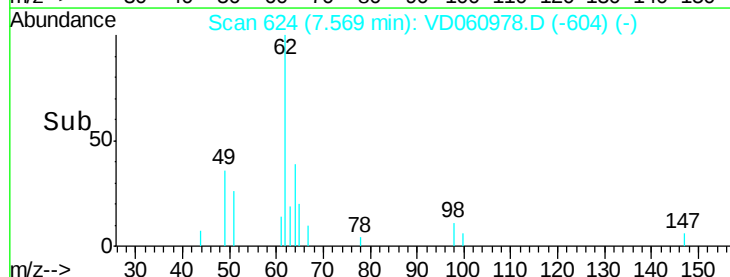
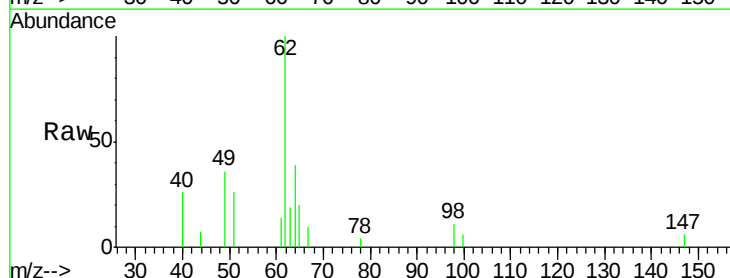
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

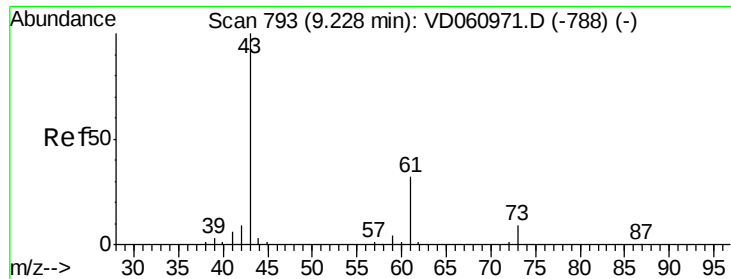
Tot Ion: 41 Resp: 14000
Ion Ratio Lower Upper
41 100
39 45.1 35.7 53.5
67 17.4 23.0 34.6#
52 0.0 9.2 13.8#



#42
1,2-Dichloroethane
Concen: 2.499 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 62 Resp: 19944
Ion Ratio Lower Upper
62 100
98 10.5 0.0 20.4



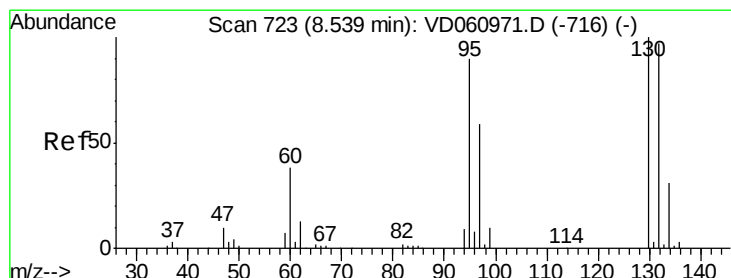
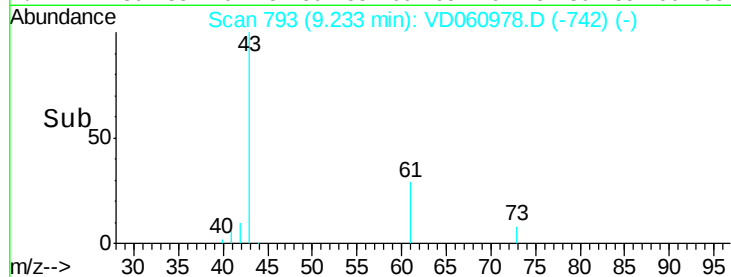
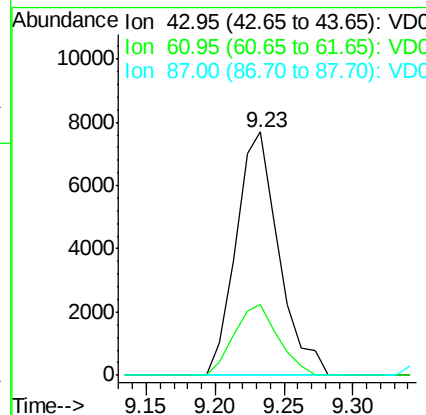
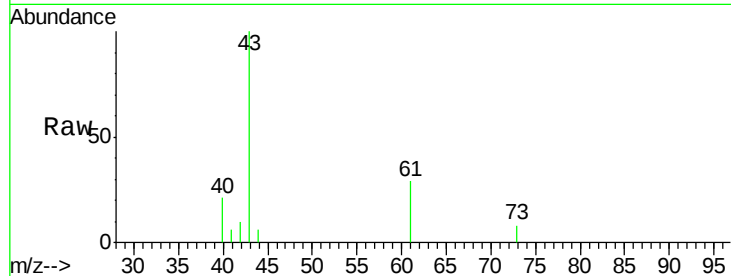


#43

Isopropyl Acetate
 Concen: 2.319 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

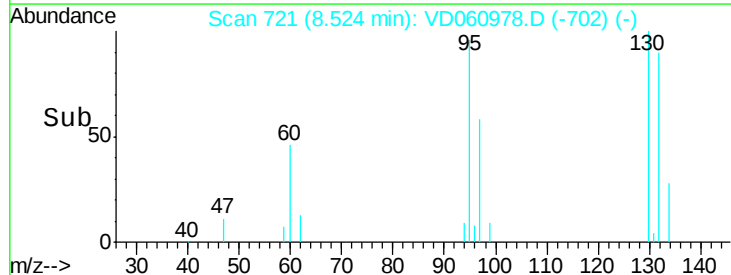
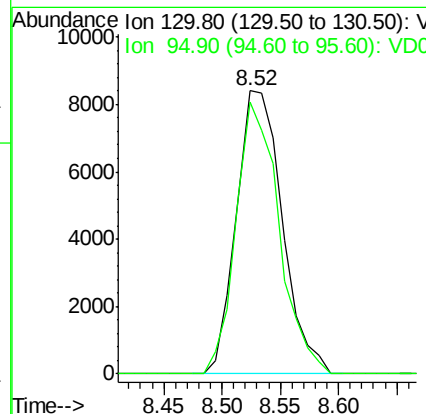
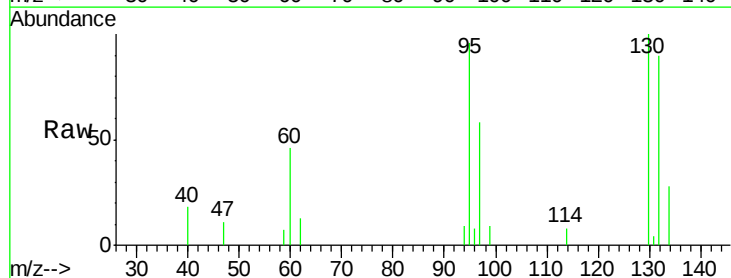
Tot Ion: 43 Resp: 16587
 Ion Ratio Lower Upper
 43 100
 61 29.0 25.6 38.4
 87 0.0 0.2 0.4#

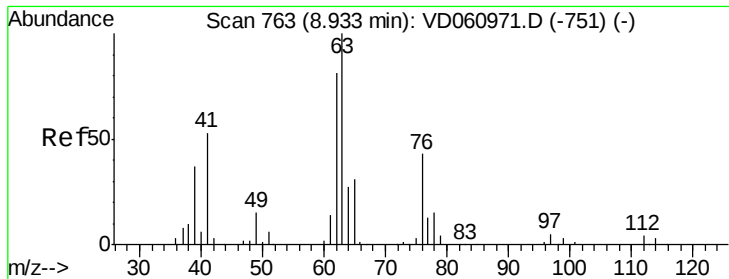


#44

Trichloroethene
 Concen: 2.421 ug/l
 RT: 8.52 min Scan# 721
 Delta R.T. -0.02 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion: 130 Resp: 22966
 Ion Ratio Lower Upper
 130 100
 95 96.0 0.0 179.4





#45

1,2-Dichloropropane

Concen: 2.258 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

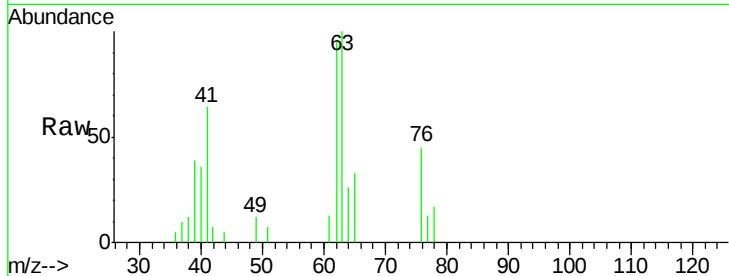
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 63 Resp: 16310

Ion Ratio Lower Upper

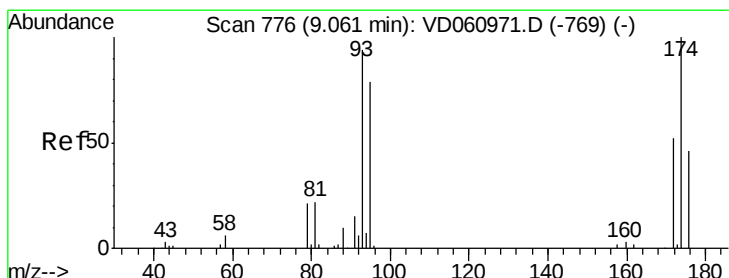
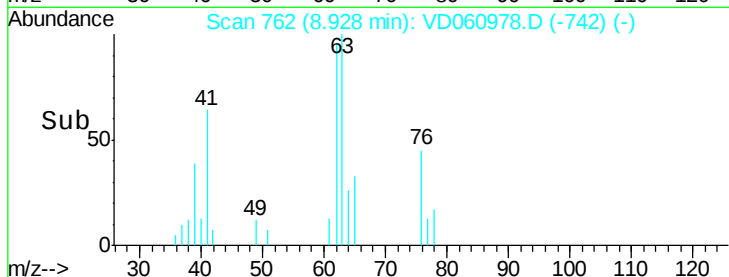
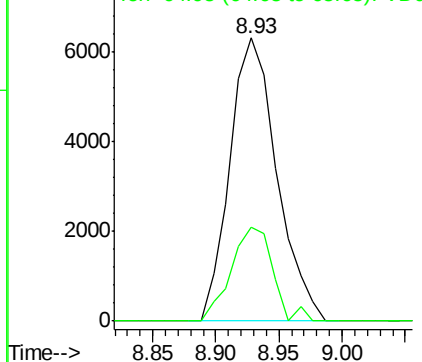
63 100

65 33.3 24.8 37.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 2.182 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

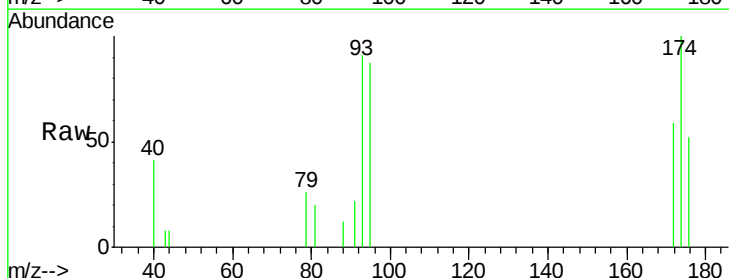
Tgt Ion: 93 Resp: 10001

Ion Ratio Lower Upper

93 100

95 96.2 67.4 101.0

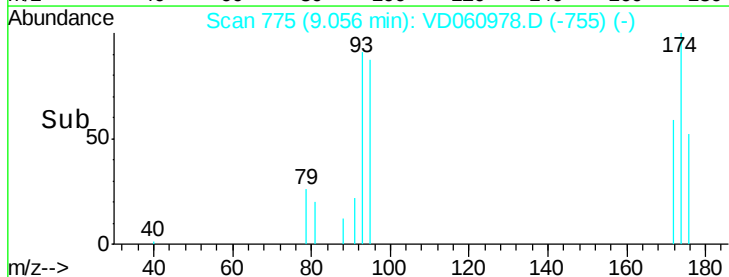
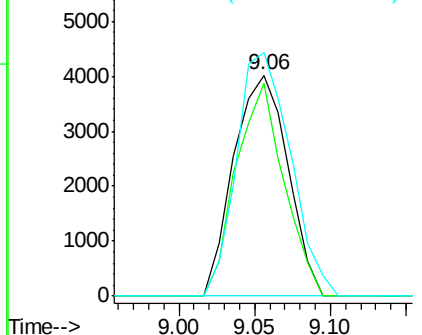
174 110.1 85.4 128.0



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: 2.546 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

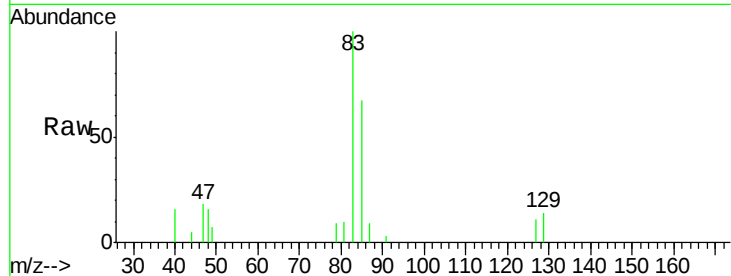
Tot Ion: 83 Resp: 26325

Ion Ratio Lower Upper

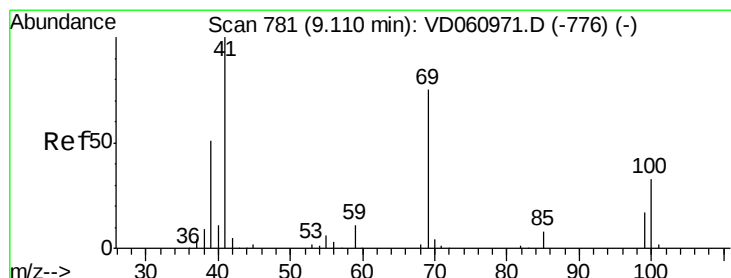
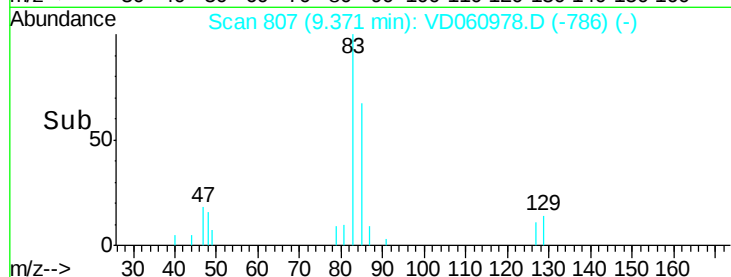
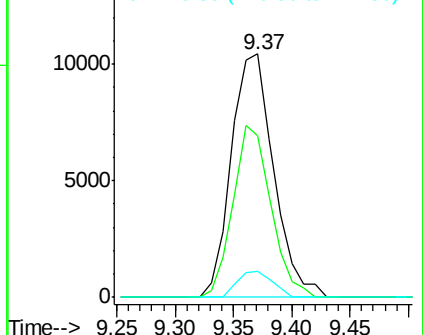
83 100

85 66.6 52.5 78.7

127 10.6 7.5 11.3



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): VDC



#48

Methyl methacrylate

Concen: 2.334 ug/l

RT: 9.10 min Scan# 780

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

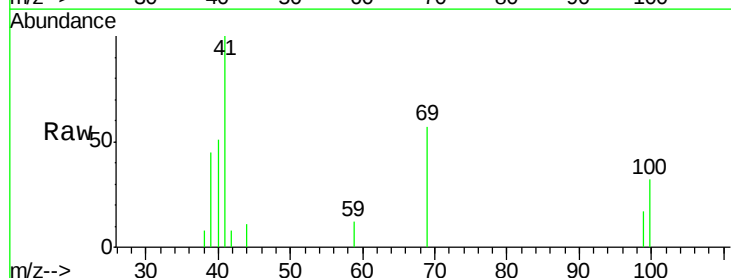
Tgt Ion: 41 Resp: 9398

Ion Ratio Lower Upper

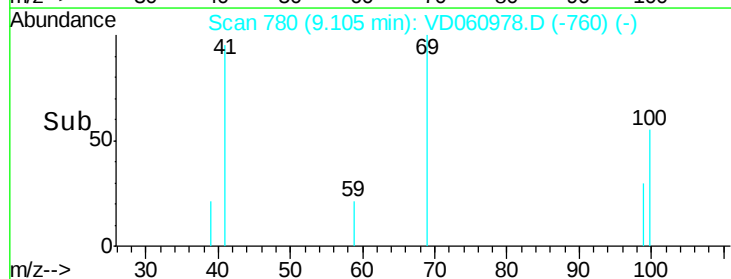
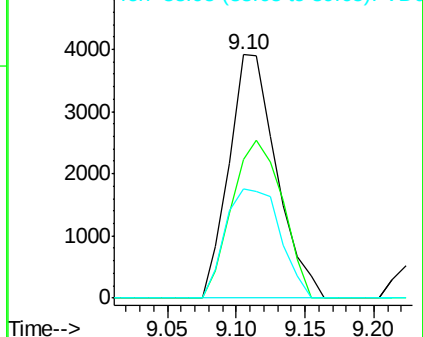
41 100

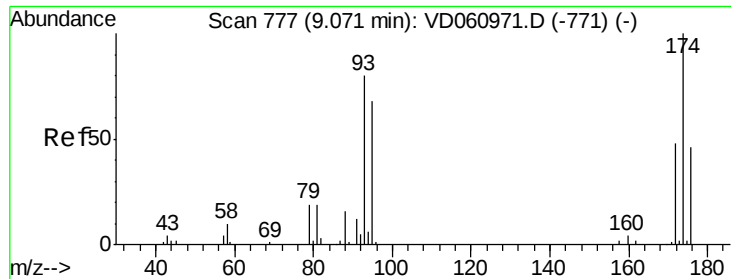
69 57.2 59.9 89.9#

39 44.8 40.9 61.3



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: 32.122 ug/l

RT: 9.07 min Scan# 776

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

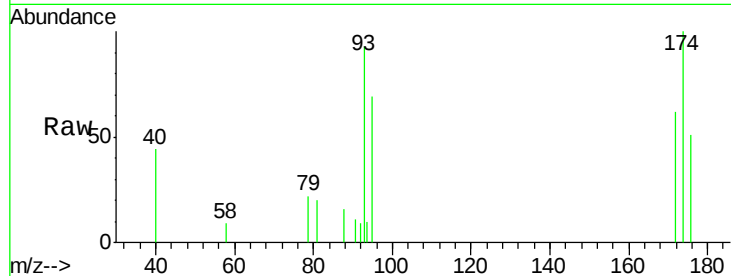
Tot Ion: 88 Resp: 1308

Ion Ratio Lower Upper

88 100

43 0.0 21.0 31.6#

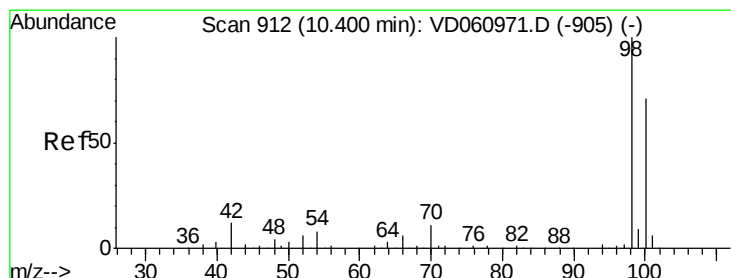
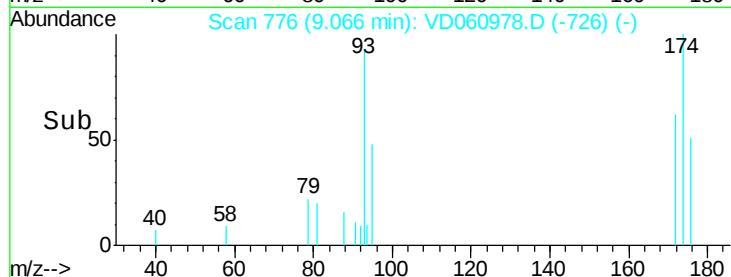
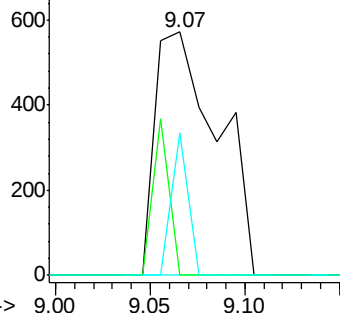
58 58.4 48.6 72.8



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 32.122 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD060978.D

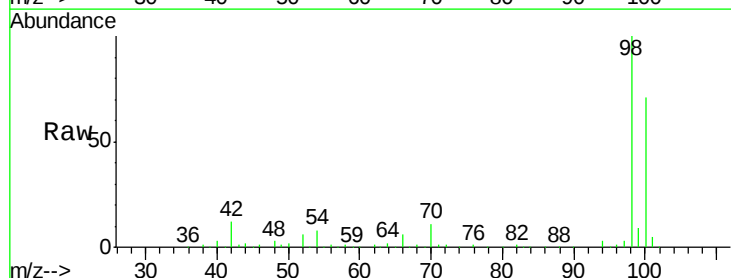
Acq: 8 Mar 2019 12:34

Tgt Ion: 98 Resp: 1260723

Ion Ratio Lower Upper

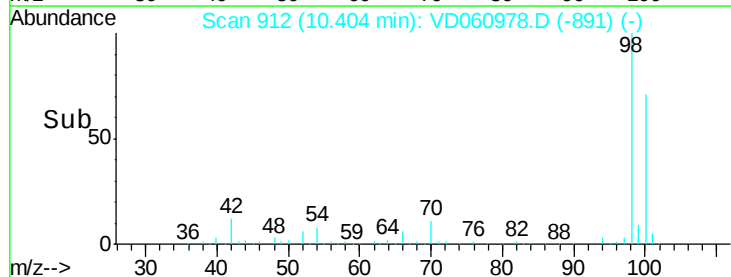
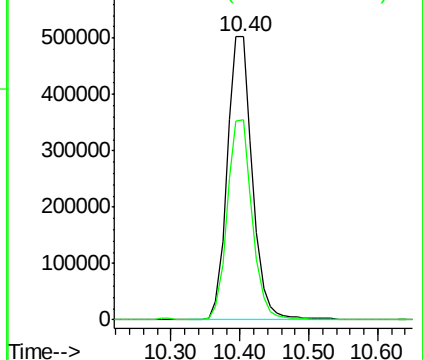
98 100

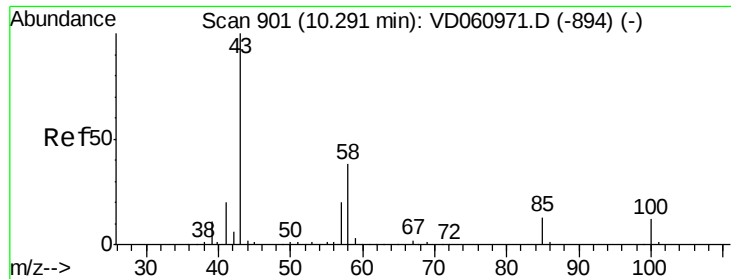
100 70.9 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 11.346 ug/l

RT: 10.29 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

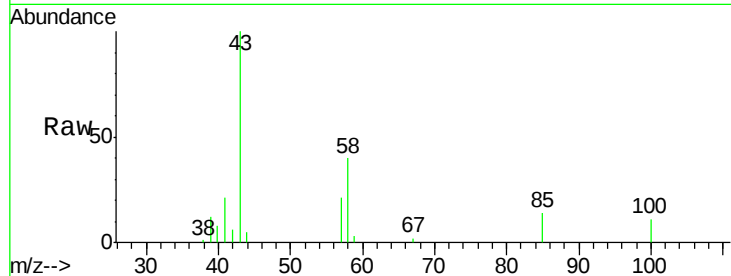
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 49716

Ion Ratio Lower Upper

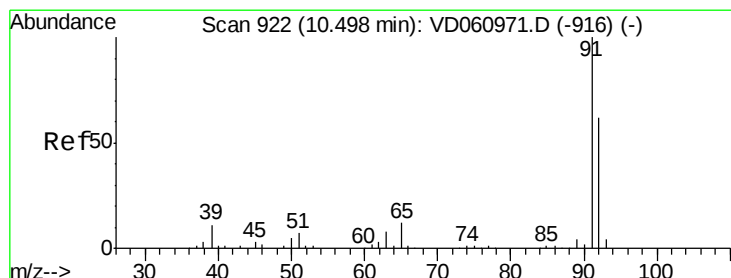
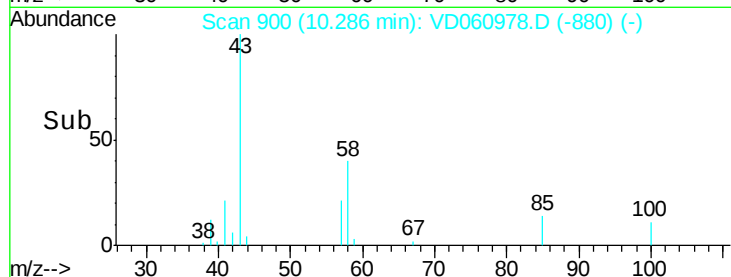
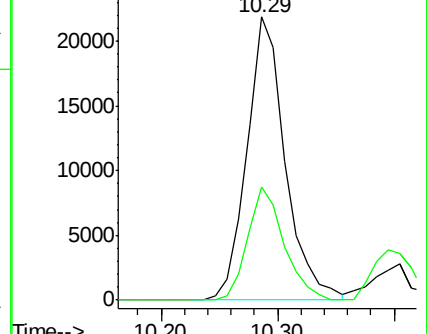
43 100

58 40.0 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 2.494 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.01 min

Lab File: VD060978.D

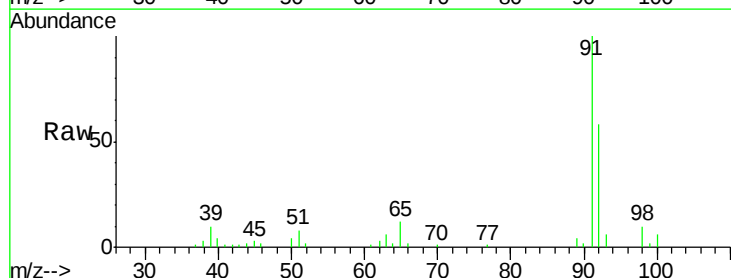
Acq: 8 Mar 2019 12:34

Tgt Ion: 92 Resp: 42646

Ion Ratio Lower Upper

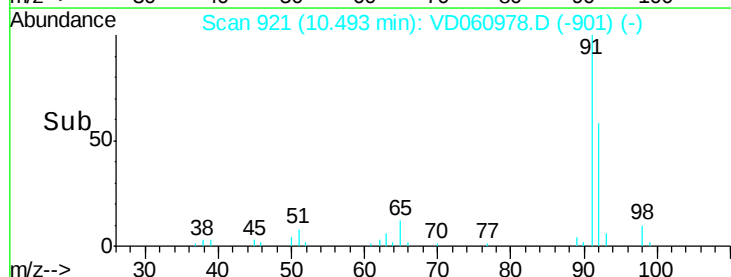
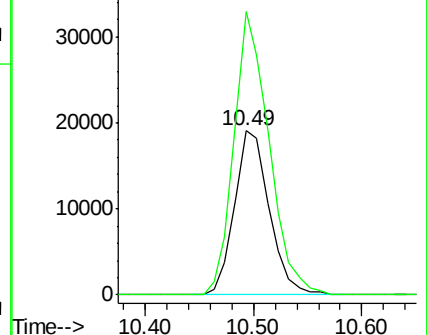
92 100

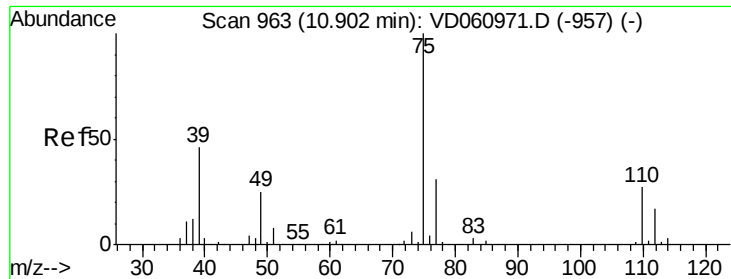
91 172.3 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 2.270 ug/l

RT: 10.91 min Scan# 963

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

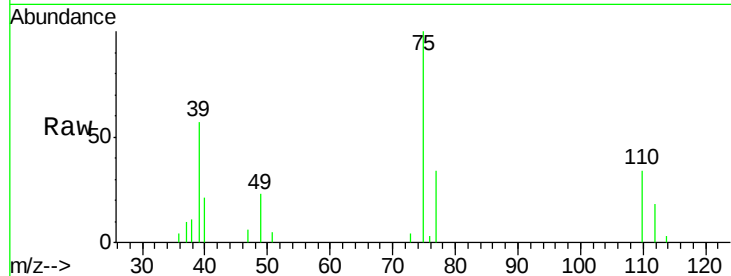
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 75 Resp: 21467

Ion Ratio Lower Upper

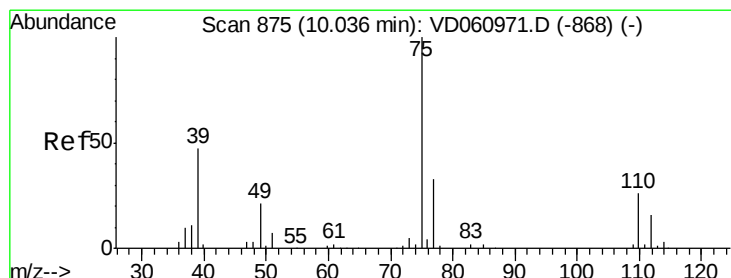
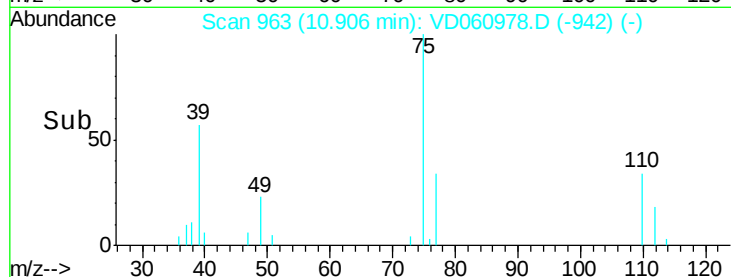
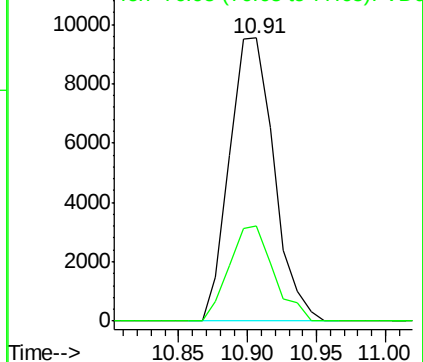
75 100

77 33.7 24.7 37.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 2.417 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

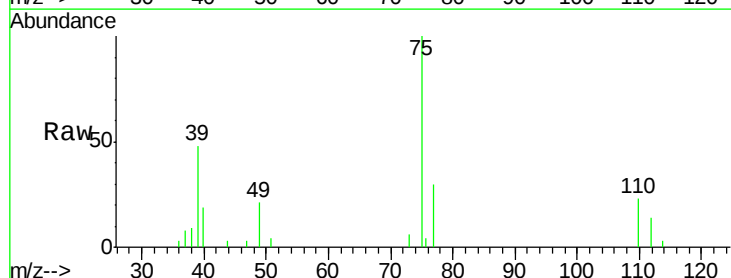
Tgt Ion: 75 Resp: 27455

Ion Ratio Lower Upper

75 100

77 29.8 26.2 39.4

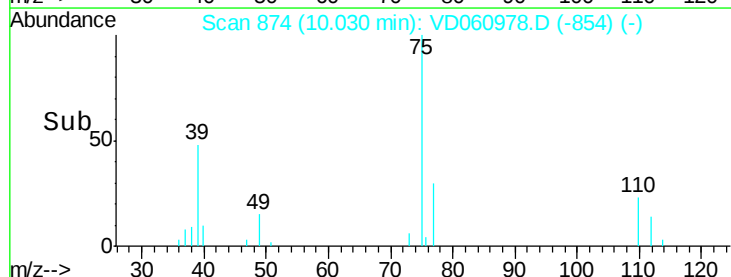
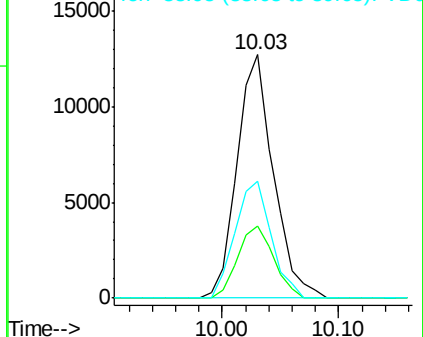
39 47.8 37.8 56.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 2.494 ug/l

RT: 11.17 min Scan# 990

Delta R.T. -0.02 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 97 Resp: 14203

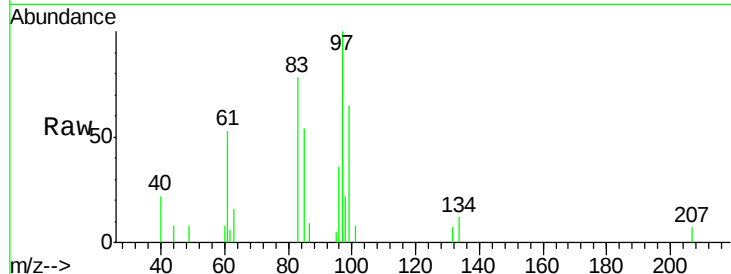
Ion Ratio Lower Upper

97 100

83 78.0 66.6 100.0

85 53.9 46.4 69.6

99 64.8 52.4 78.6

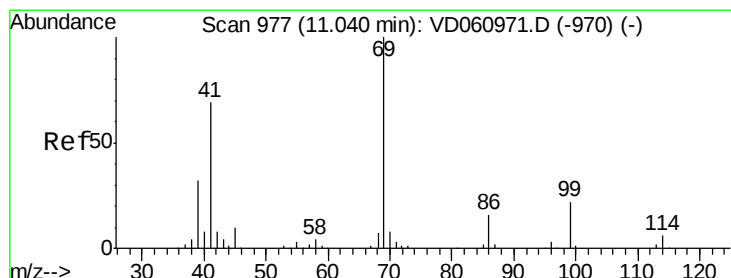
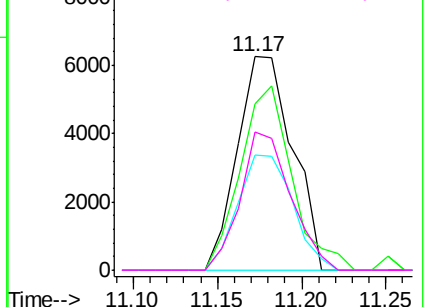
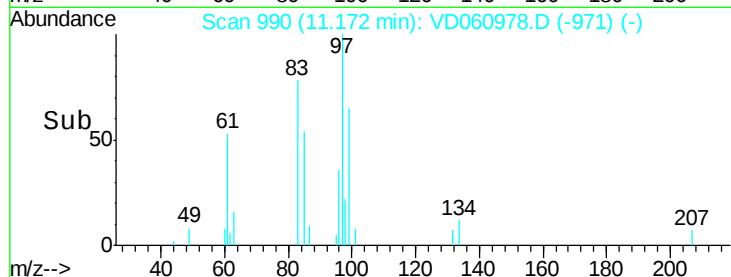


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 2.422 ug/l

RT: 11.03 min Scan# 976

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

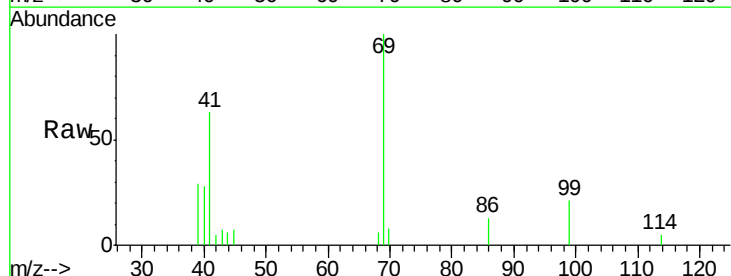
Tgt Ion: 69 Resp: 14434

Ion Ratio Lower Upper

69 100

41 62.6 55.5 83.3

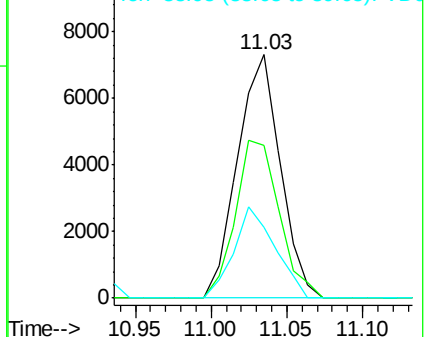
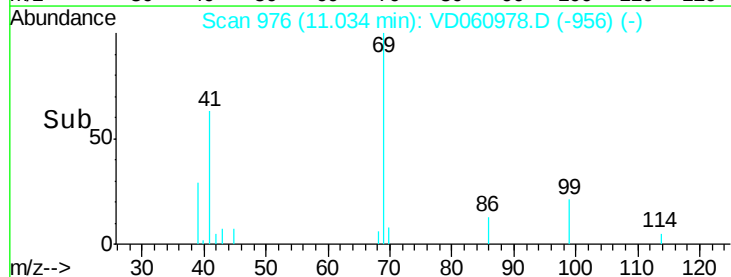
39 29.2 26.2 39.2

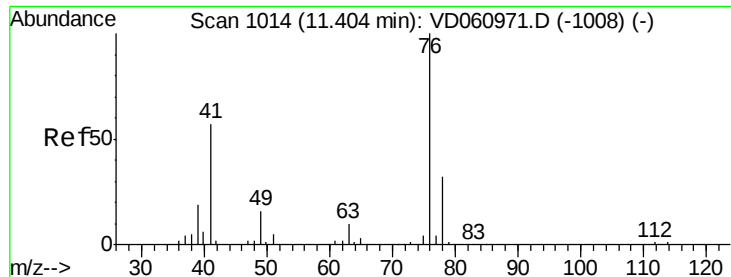


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

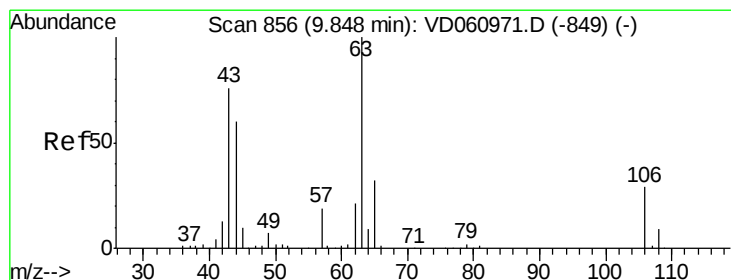
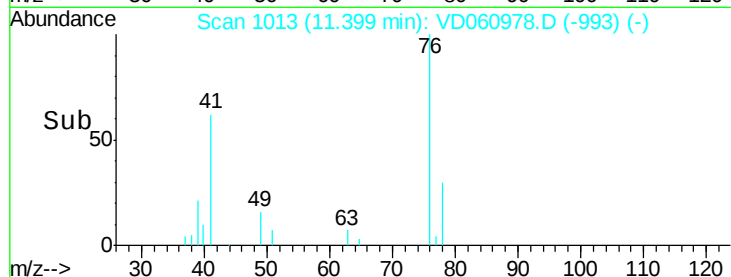
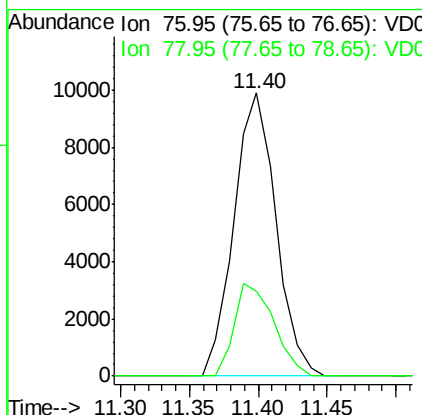
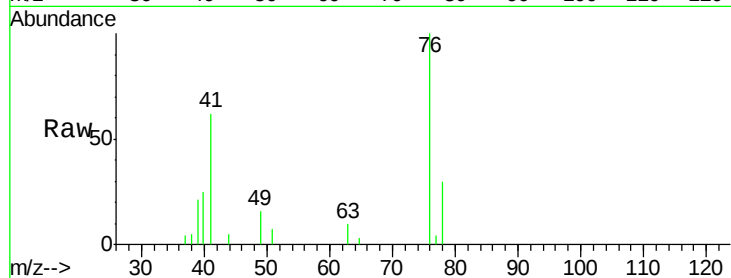




#57
 1,3-Dichloropropane
 Concen: 2.469 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

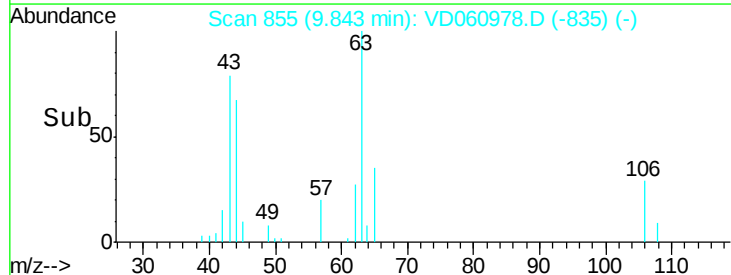
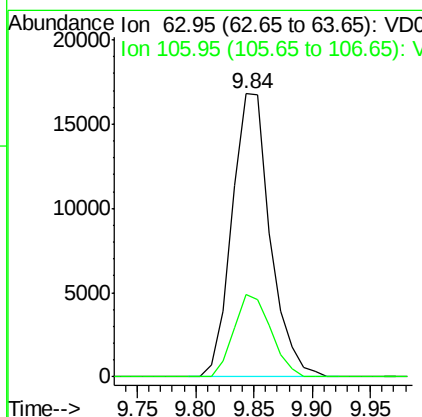
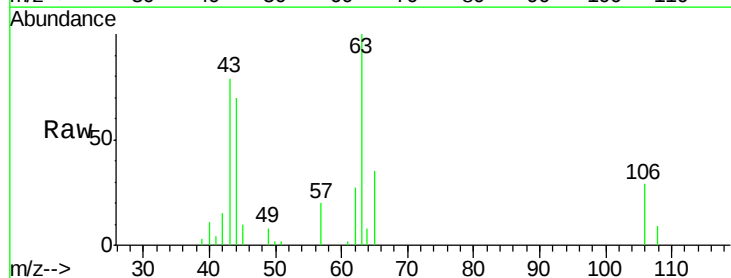
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

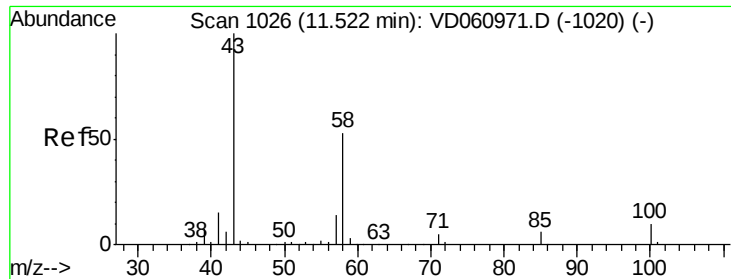
Tot Ion: 76 Resp: 21012
 Ion Ratio Lower Upper
 76 100
 78 30.1 25.4 38.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.094 ug/l
 RT: 9.84 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion: 63 Resp: 38156
 Ion Ratio Lower Upper
 63 100
 106 29.1 22.8 34.2

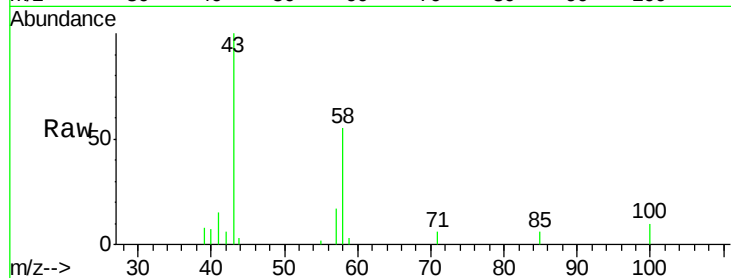




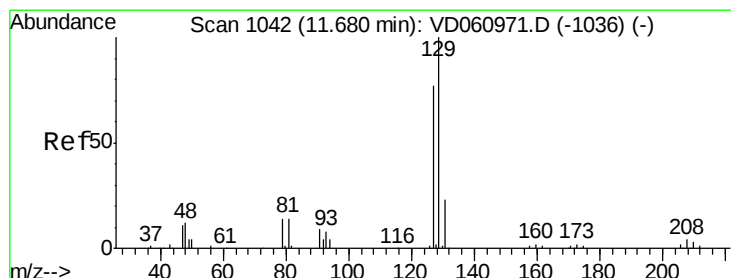
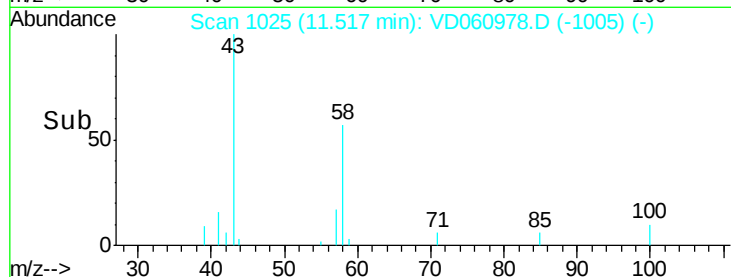
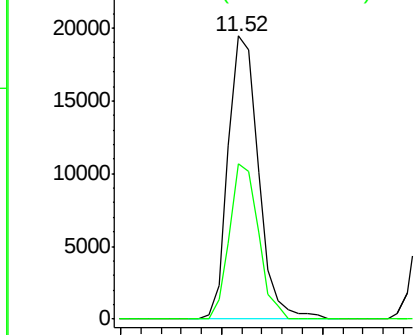
#59
2-Hexanone
Concen: 12.701 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 43 Resp: 40707
Ion Ratio Lower Upper
43 100
58 54.9 26.5 79.5

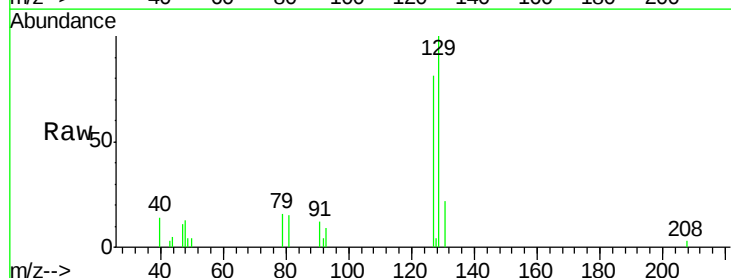


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

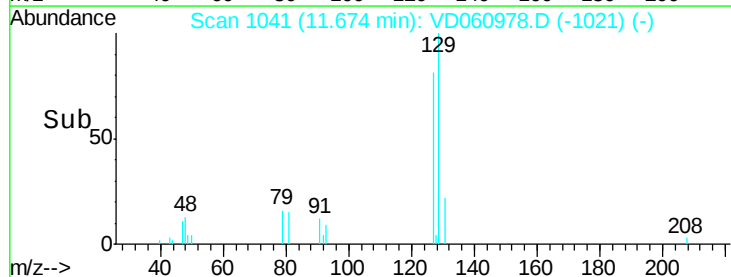
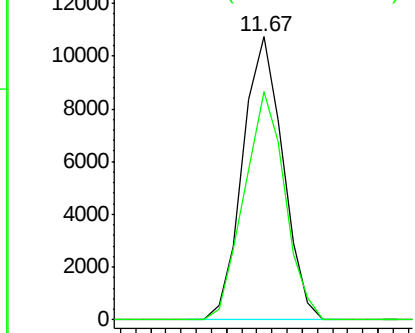


#60
Dibromochloromethane
Concen: 2.371 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 129 Resp: 19867
Ion Ratio Lower Upper
129 100
127 80.8 38.3 114.9



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

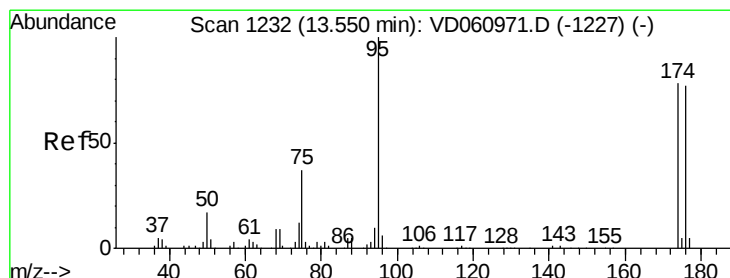
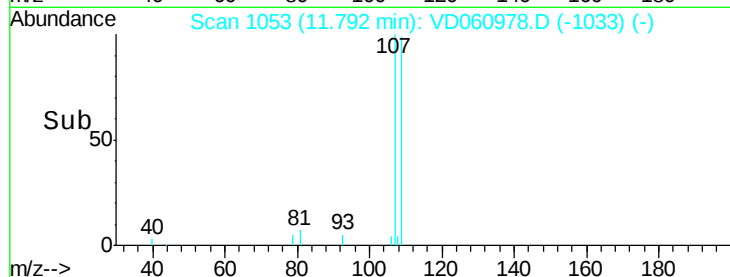
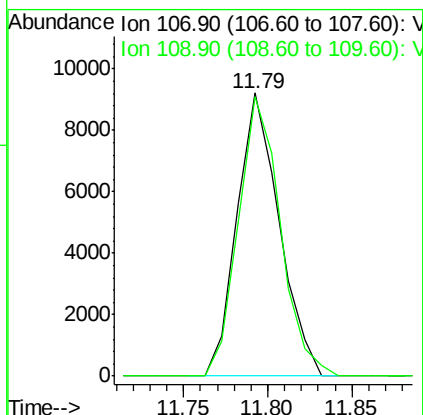
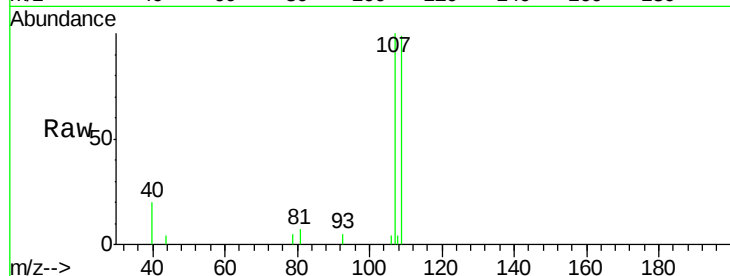




#61
 1,2-Dibromoethane
 Concen: 2.417 ug/l
 RT: 11.79 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

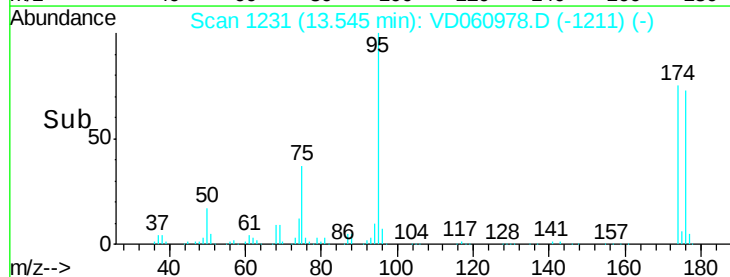
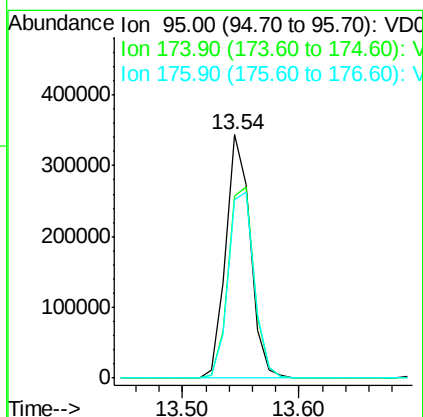
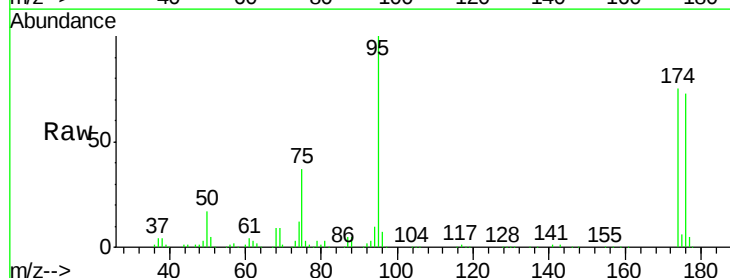
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

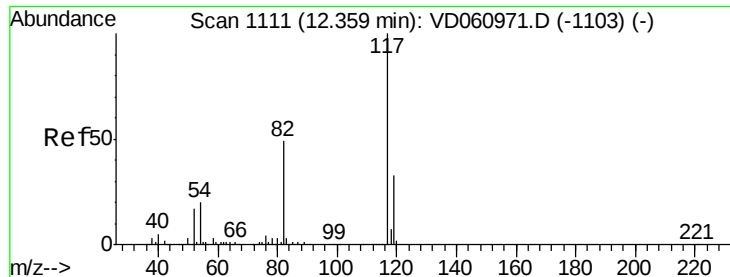
Tot Ion:107 Resp: 16007
 Ion Ratio Lower Upper
 107 100
 109 98.9 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 2.417 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion: 95 Resp: 500631
 Ion Ratio Lower Upper
 95 100
 174 75.0 0.0 155.6
 176 73.0 0.0 153.8

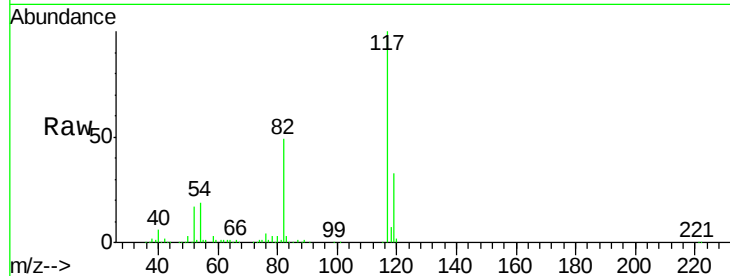




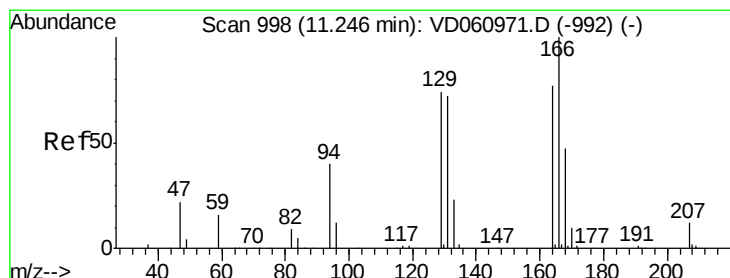
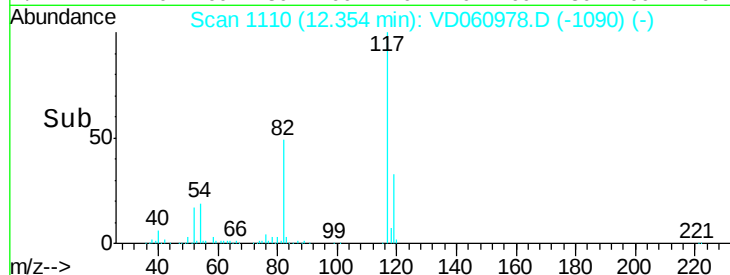
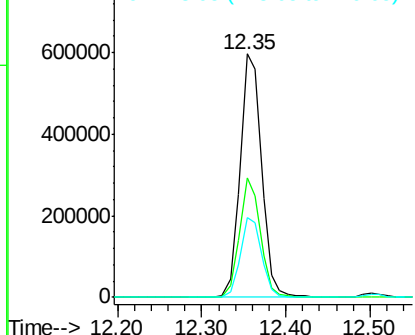
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:117 Resp: 1059163
Ion Ratio Lower Upper
117 100
82 49.3 38.9 58.3
119 32.7 26.6 39.8

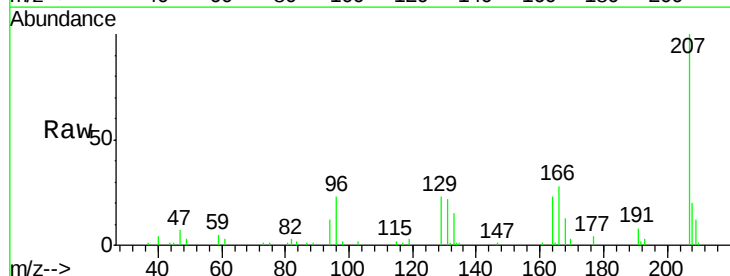


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

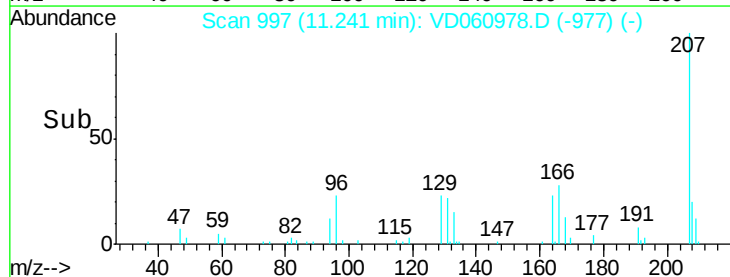
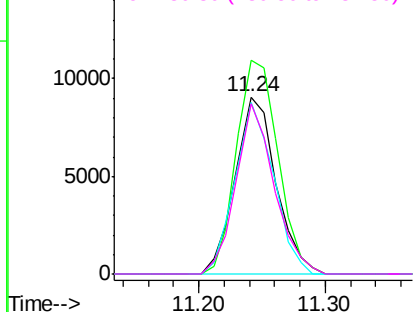


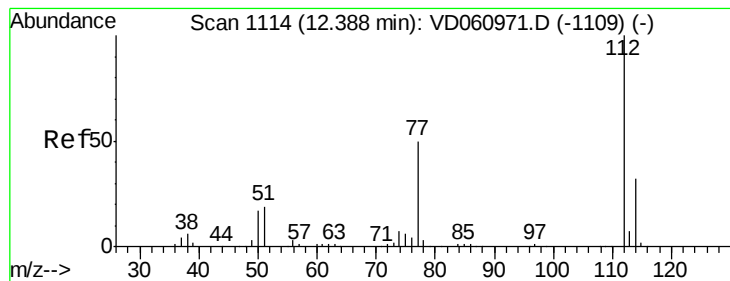
#64
Tetrachloroethene
Concen: 2.851 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion:164 Resp: 20381
Ion Ratio Lower Upper
164 100
166 120.5 103.4 155.0
129 96.6 76.9 115.3
131 95.8 74.4 111.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 2.571 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

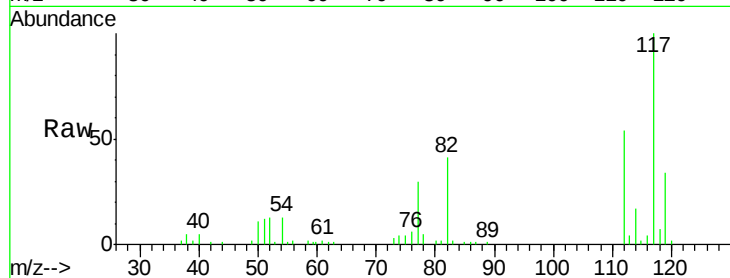
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:112 Resp: 53388

Ion Ratio Lower Upper

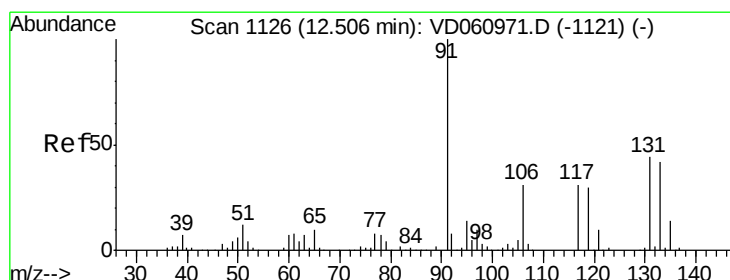
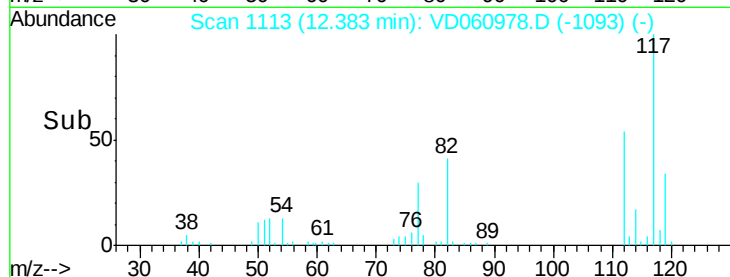
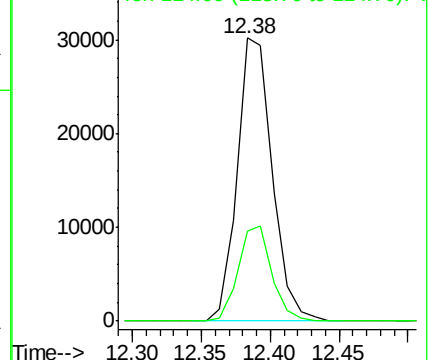
112 100

114 31.8 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.607 ug/l

RT: 12.50 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

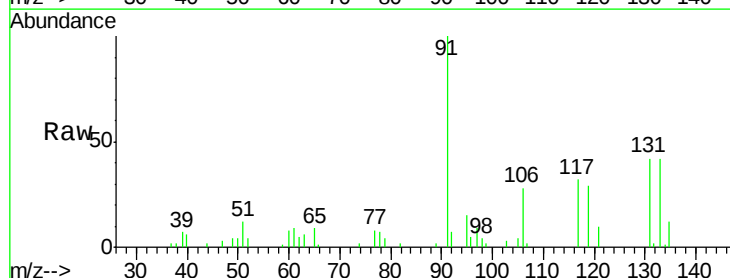
Tgt Ion:131 Resp: 19295

Ion Ratio Lower Upper

131 100

133 100.4 47.8 143.3

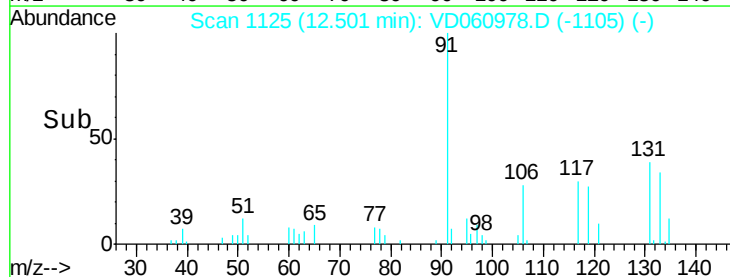
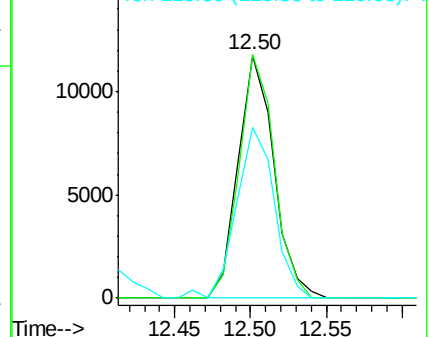
119 70.4 34.3 102.9

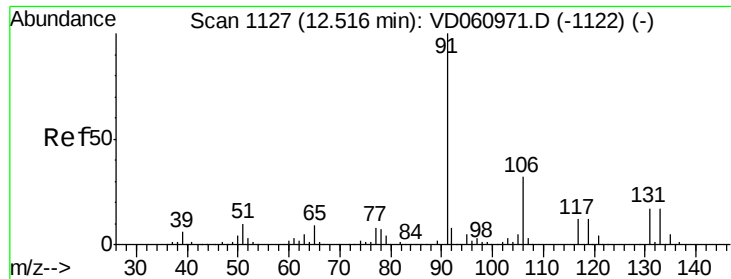


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

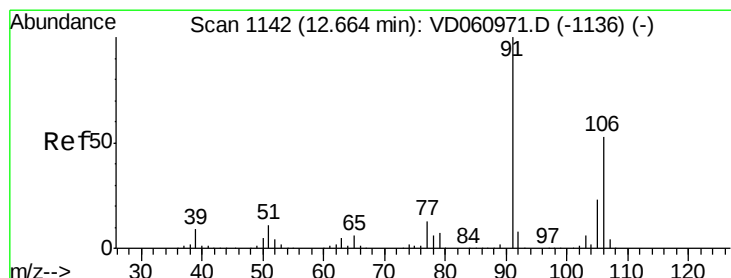
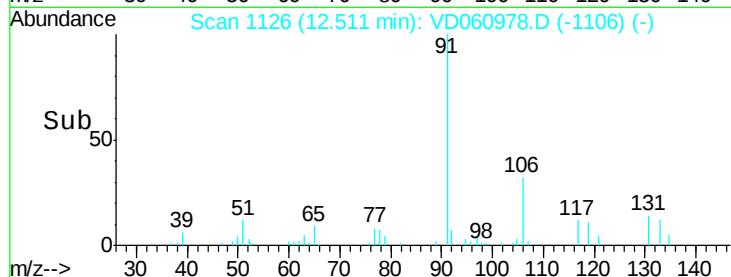
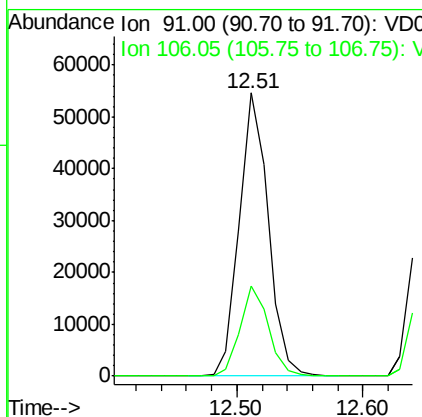
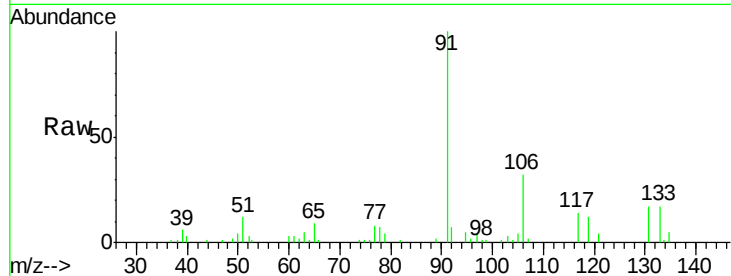




#67
Ethyl Benzene
Concen: 2.808 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

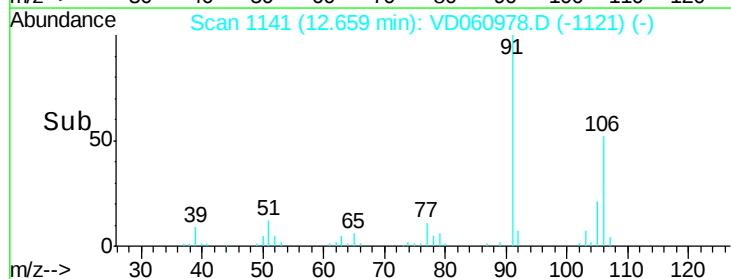
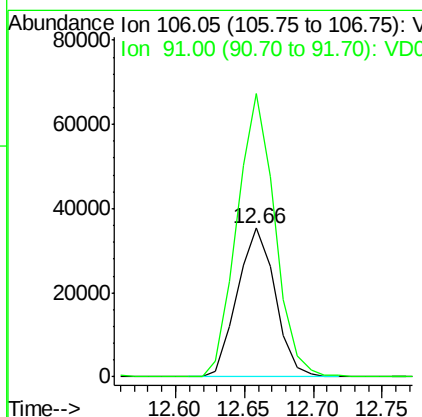
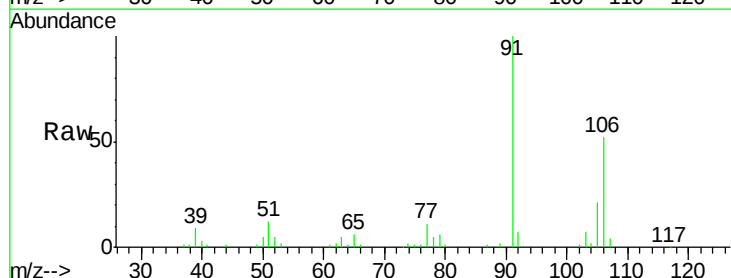
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

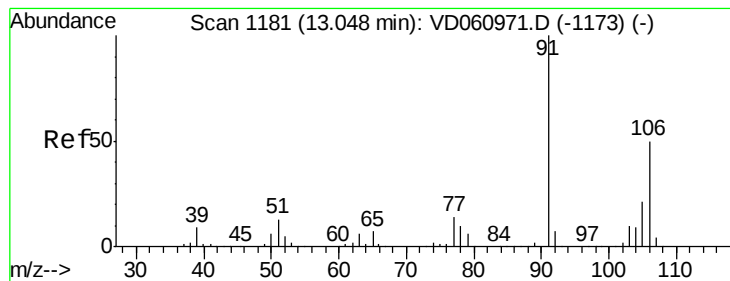
Tot Ion: 91 Resp: 86812
Ion Ratio Lower Upper
91 100
106 31.7 25.7 38.5



#68
m/p-Xylenes
Concen: 5.574 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 106 Resp: 67624
Ion Ratio Lower Upper
106 100
91 190.8 152.0 228.0





#69

o-Xylene

Concen: 2.538 ug/l

RT: 13.04 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

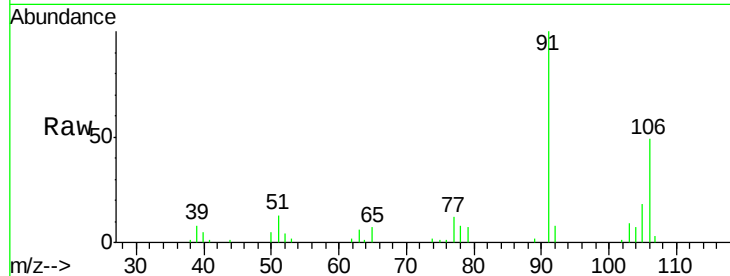
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:106 Resp: 30274

Ion Ratio Lower Upper

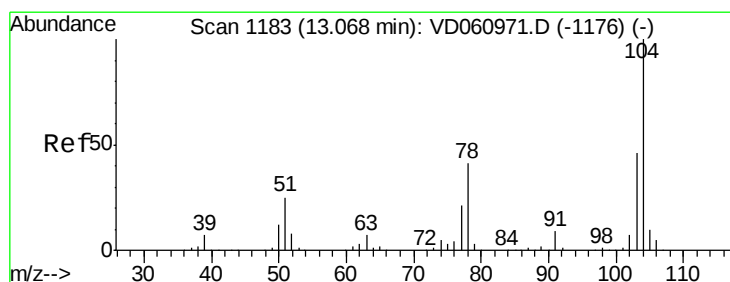
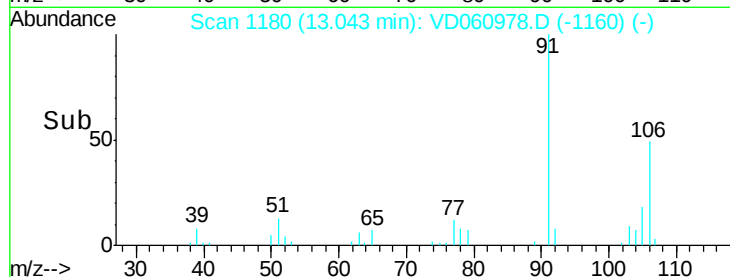
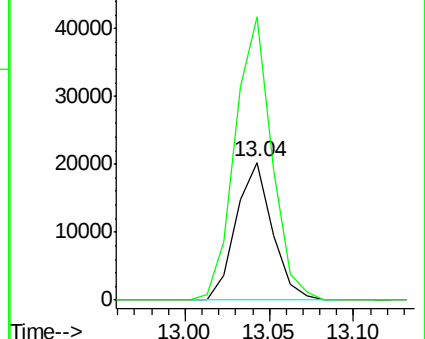
106 100

91 205.5 99.8 299.3



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V



#70

Styrene

Concen: 2.554 ug/l

RT: 13.06 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

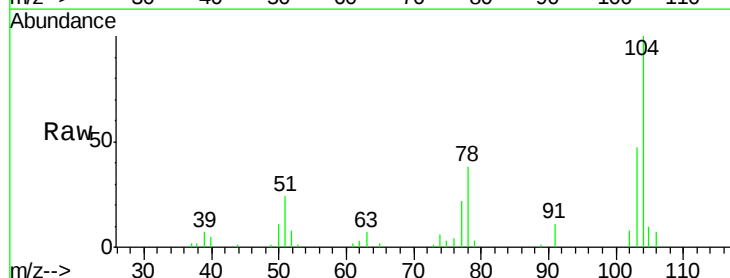
Tgt Ion:104 Resp: 49737

Ion Ratio Lower Upper

104 100

78 38.3 33.0 49.4

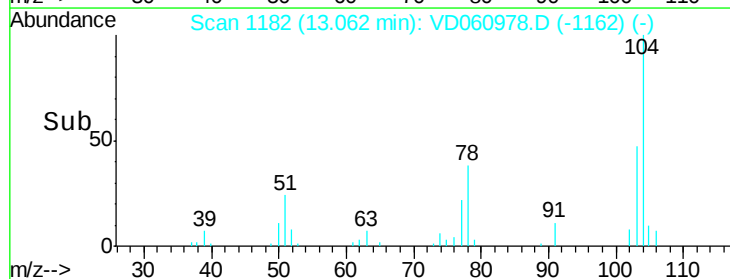
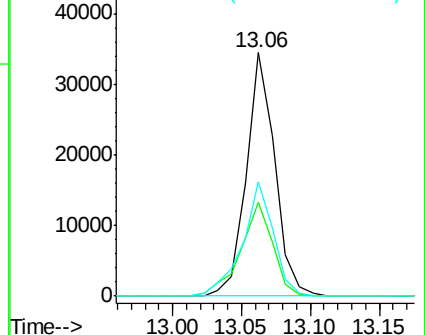
103 47.0 37.1 55.7

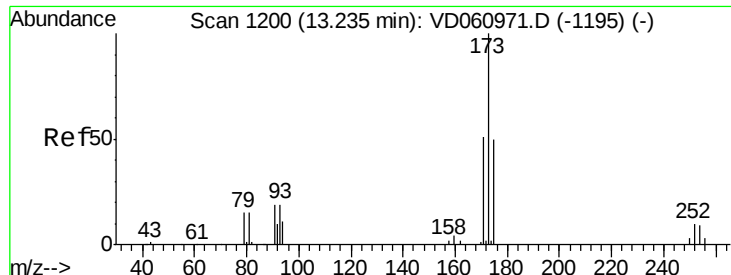


Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 2.220 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

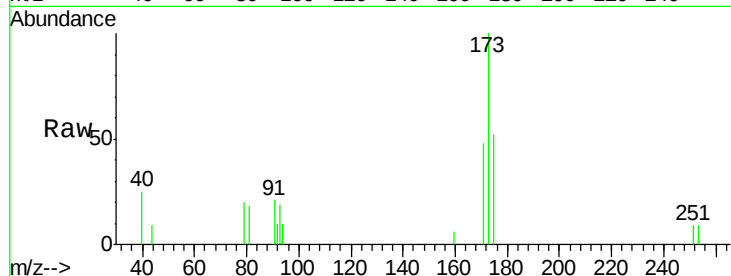
Tot Ion:173 Resp: 10602

Ion Ratio Lower Upper

173 100

175 51.8 24.9 74.8

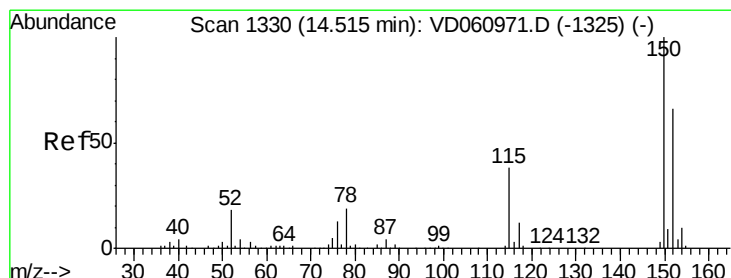
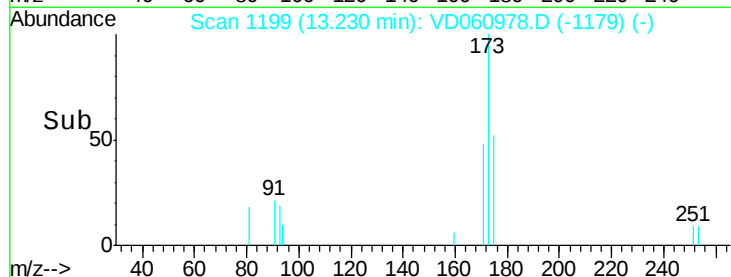
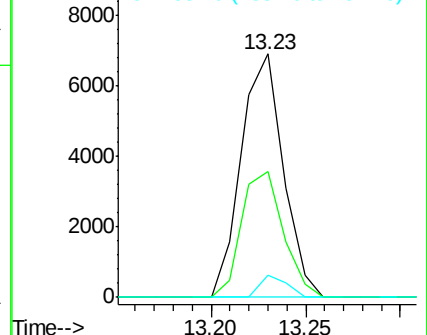
254 9.0 7.3 10.9



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: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

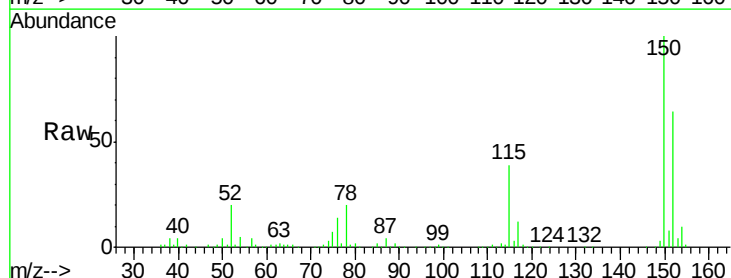
Tgt Ion:152 Resp: 482263

Ion Ratio Lower Upper

152 100

115 60.0 28.6 85.9

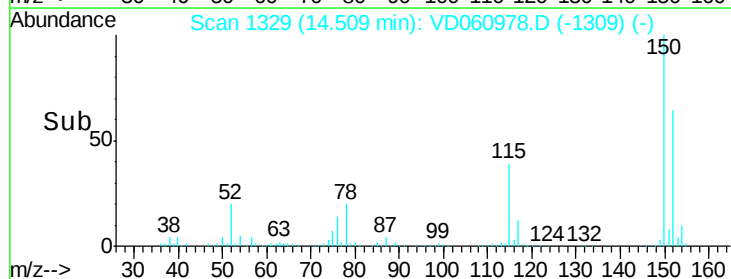
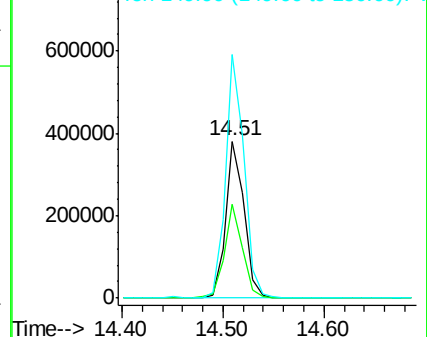
150 155.3 0.0 310.6

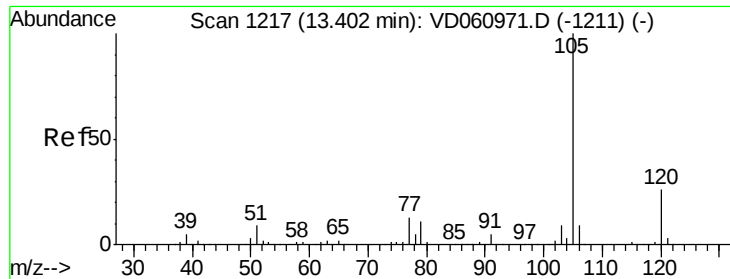


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.535 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

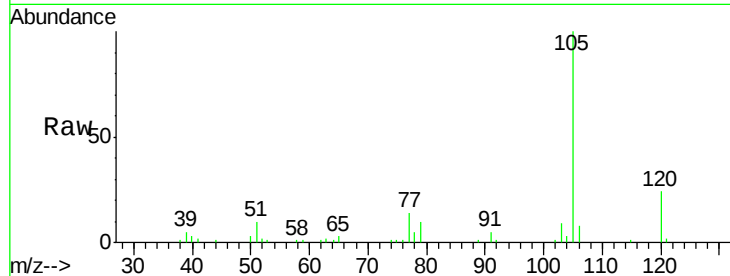
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:105 Resp: 88092

Ion Ratio Lower Upper

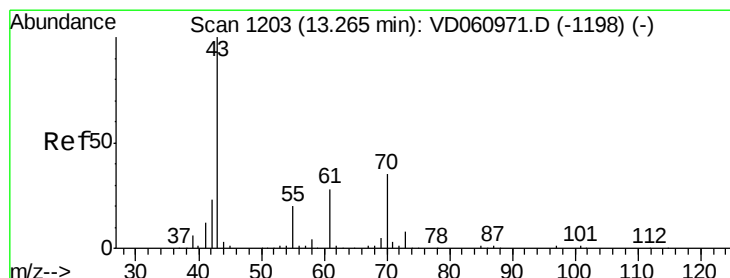
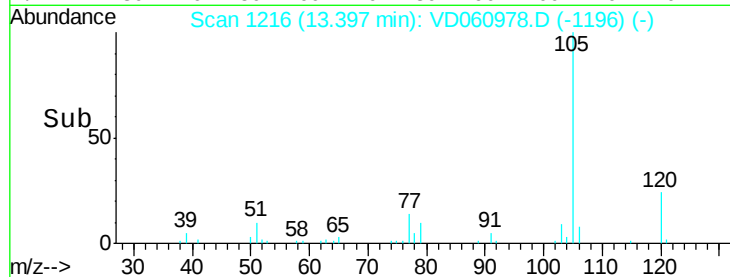
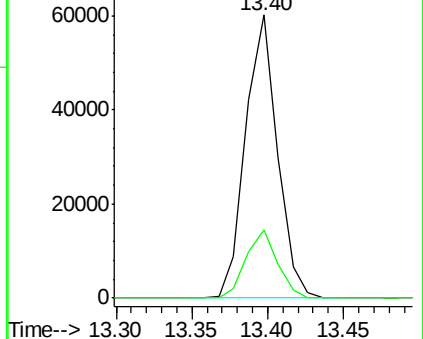
105 100

120 24.3 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 2.504 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Tgt Ion: 43 Resp: 24506

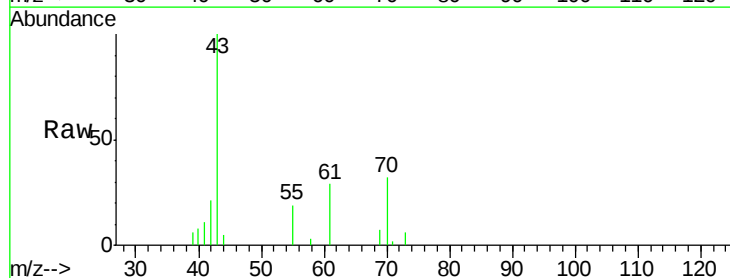
Ion Ratio Lower Upper

43 100

70 31.5 27.7 41.5

55 19.1 16.2 24.2

61 28.8 22.3 33.5

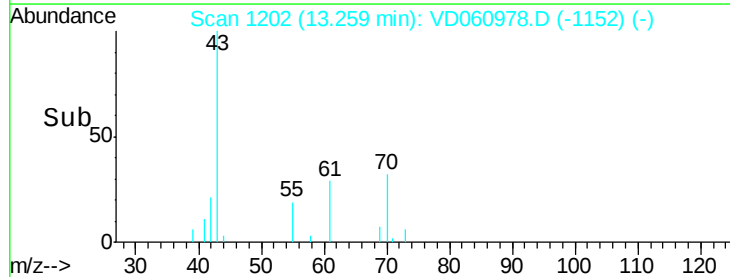
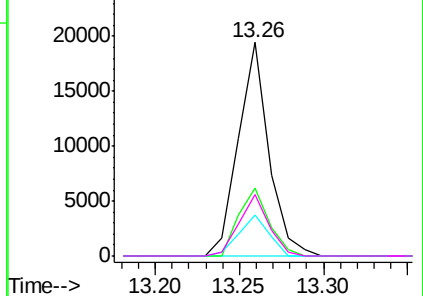


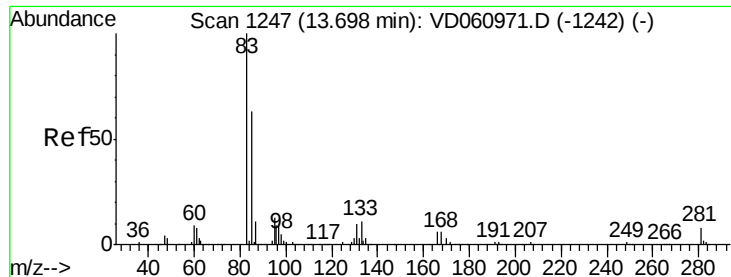
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.189 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

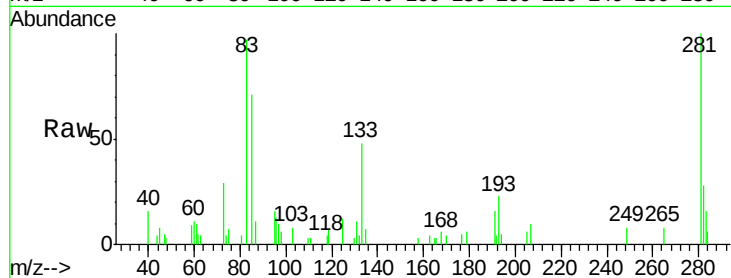
Tot Ion: 83 Resp: 14842

Ion Ratio Lower Upper

83 100

131 11.2 5.1 15.3

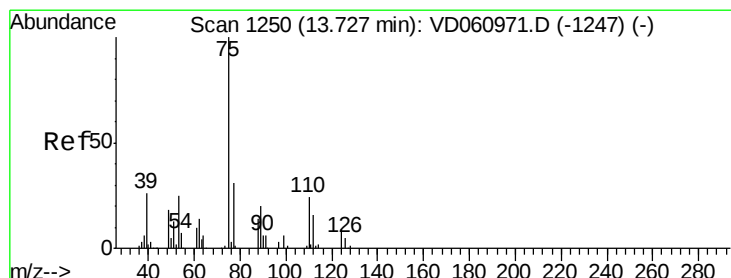
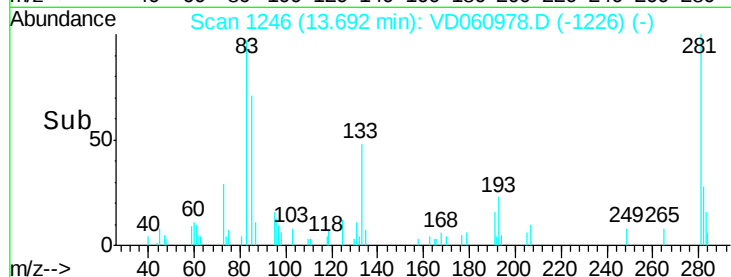
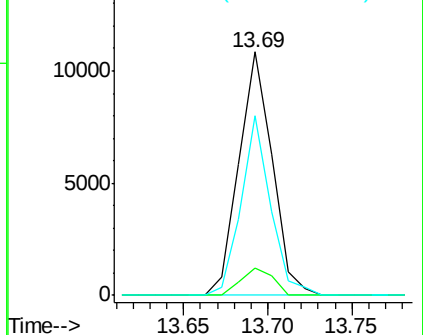
85 73.7 31.5 94.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.565 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD060978.D

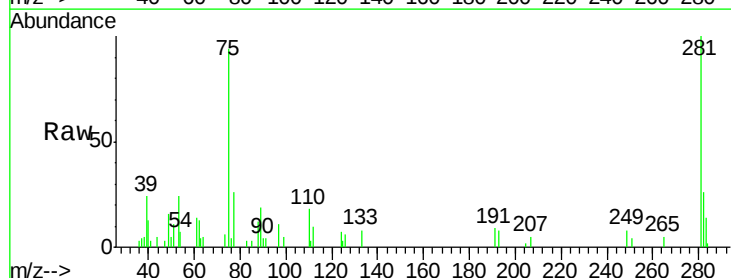
Acq: 8 Mar 2019 12:34

Tgt Ion: 75 Resp: 17796

Ion Ratio Lower Upper

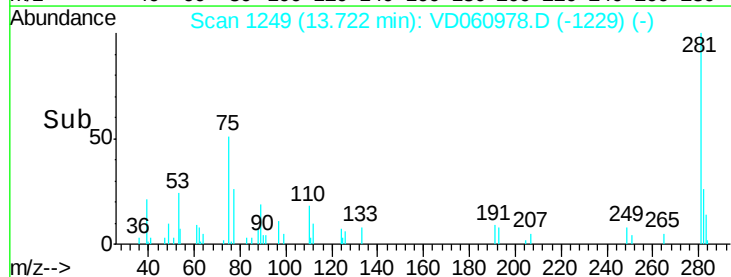
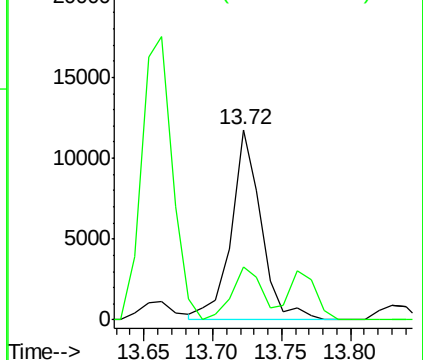
75 100

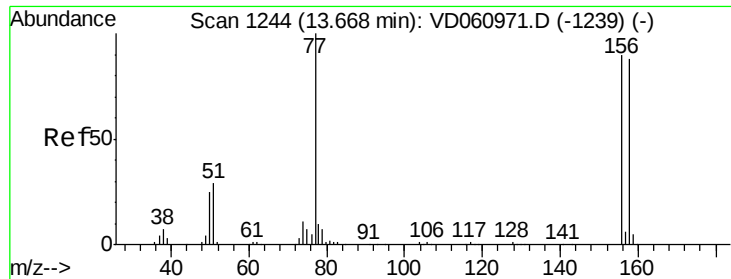
77 27.9 16.6 49.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 2.493 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

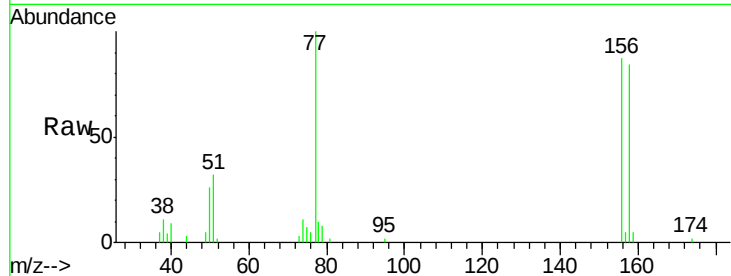
Tot Ion:156 Resp: 22115

Ion Ratio Lower Upper

156 100

77 115.3 55.5 166.7

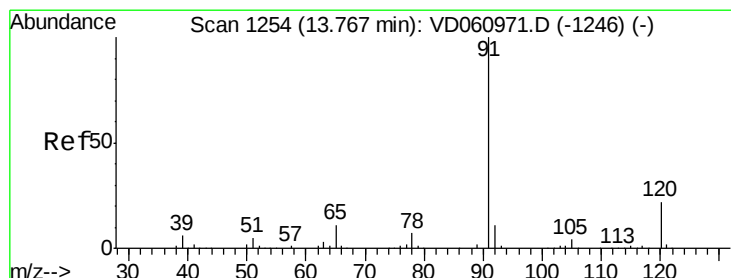
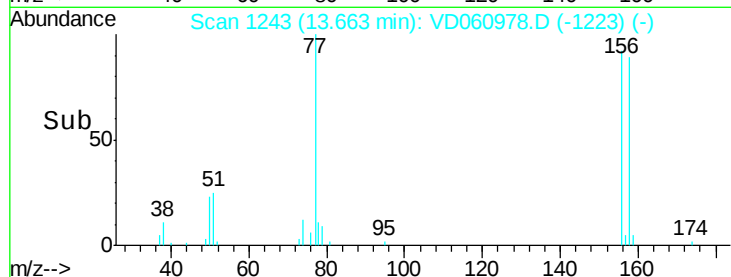
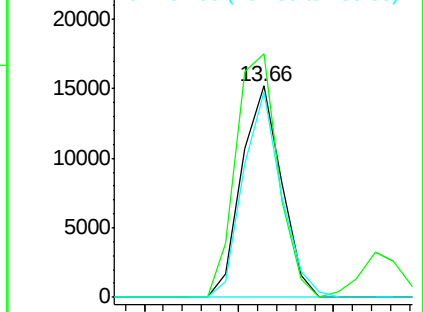
158 96.9 49.0 147.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 2.928 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VD060978.D

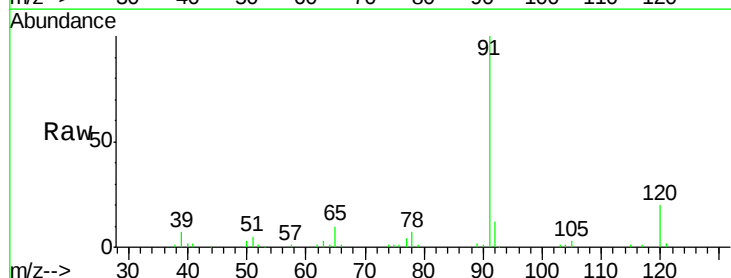
Acq: 8 Mar 2019 12:34

Tgt Ion: 91 Resp: 119152

Ion Ratio Lower Upper

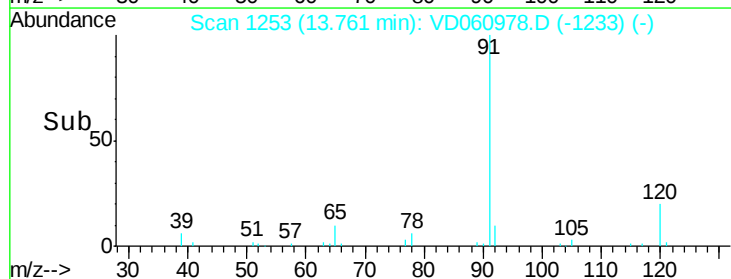
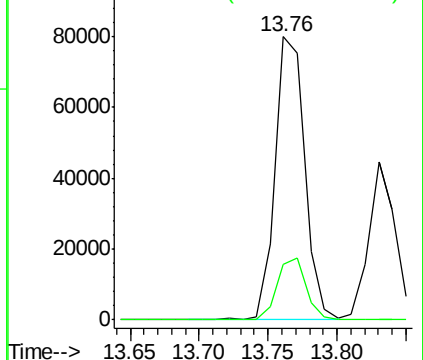
91 100

120 19.6 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 2.674 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

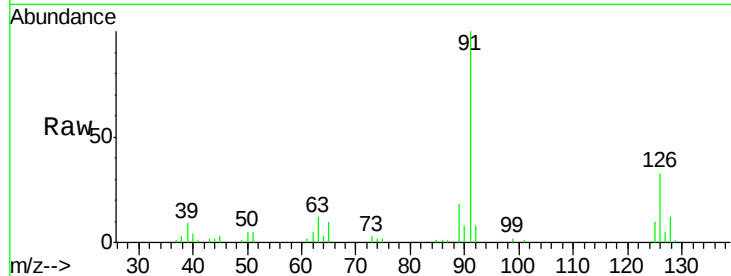
LOD-MDL-SOIL-01-QT1-2019

Tot Ion: 91 Resp: 59890

Ion Ratio Lower Upper

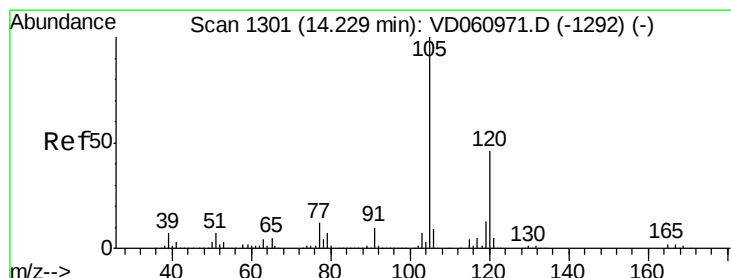
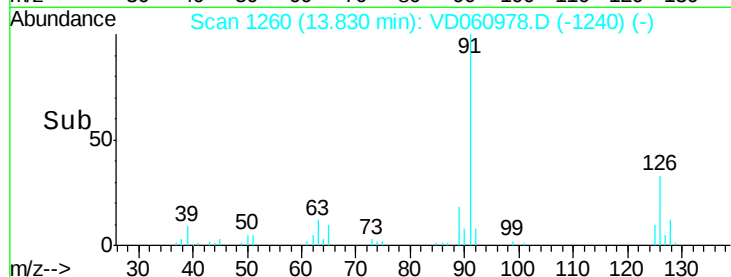
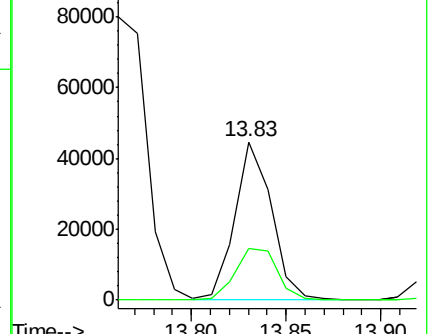
91 100

126 33.1 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VD060978.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD060978.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.777 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD060978.D

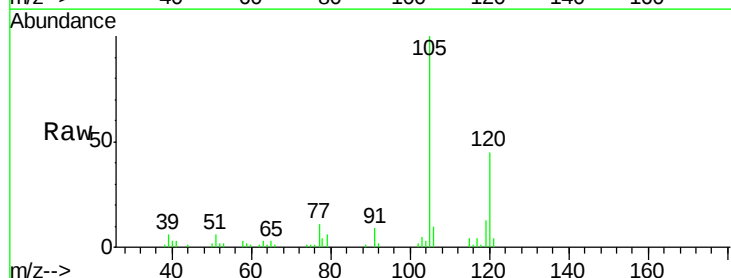
Acq: 8 Mar 2019 12:34

Tgt Ion:105 Resp: 73262

Ion Ratio Lower Upper

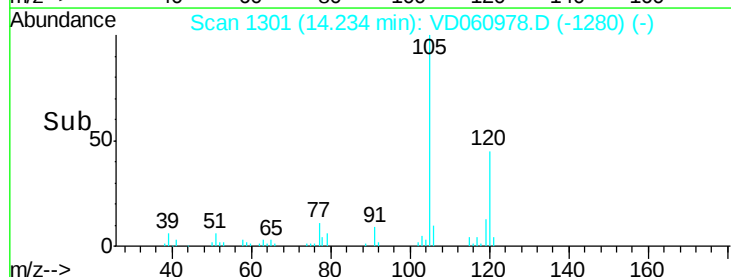
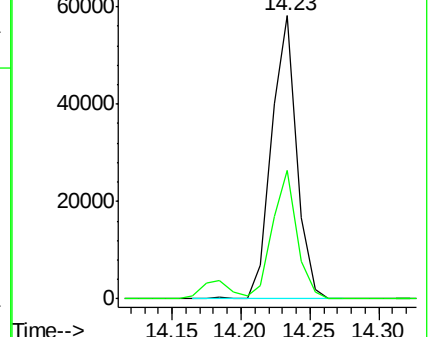
105 100

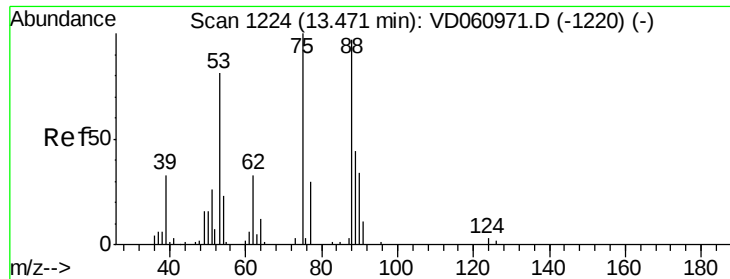
120 45.2 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060978.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD060978.D (-1292) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 88.711 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

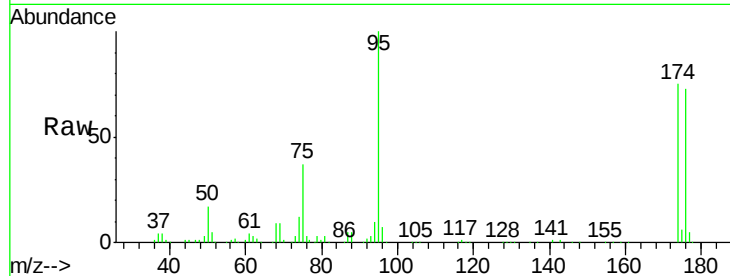
Tot Ion: 75 Resp: 181461

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

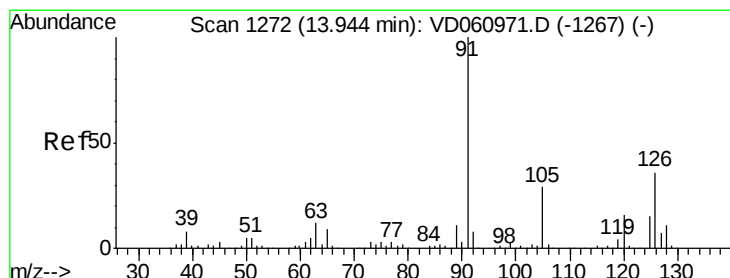
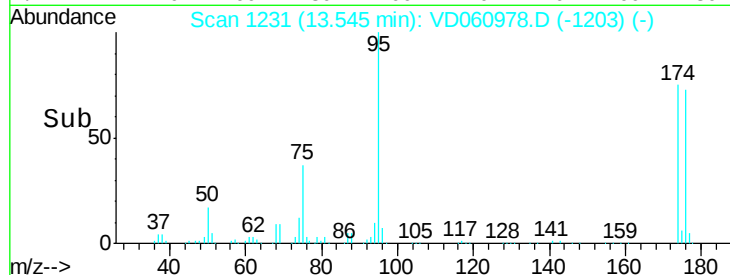
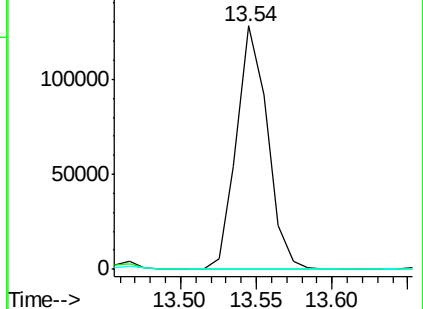
89 0.0 34.8 52.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 2.587 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD060978.D

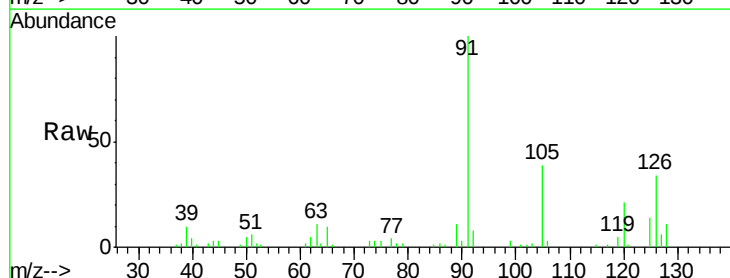
Acq: 8 Mar 2019 12:34

Tgt Ion: 91 Resp: 68501

Ion Ratio Lower Upper

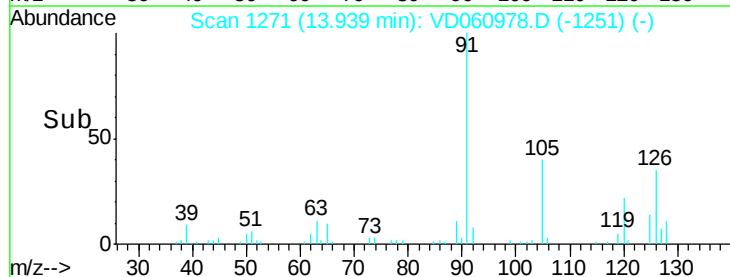
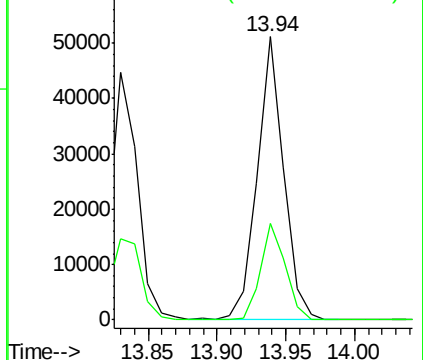
91 100

126 34.0 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

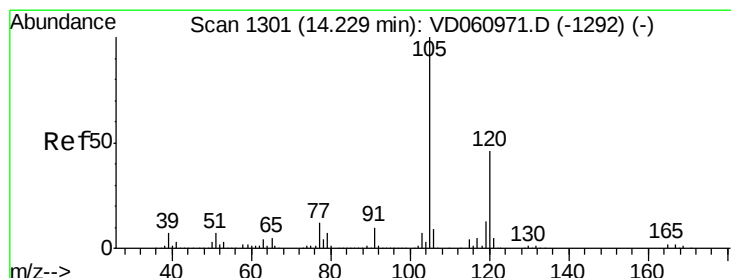
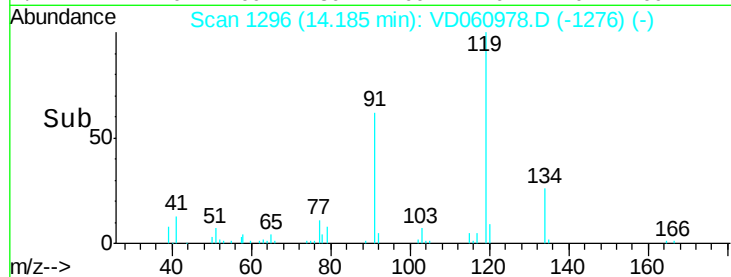
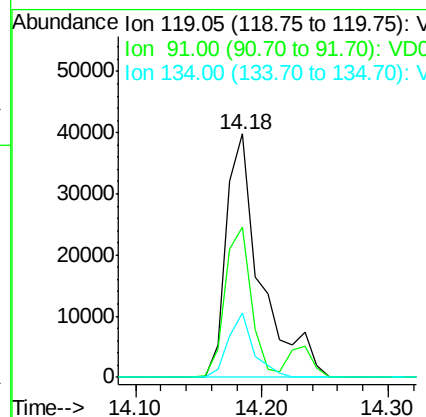
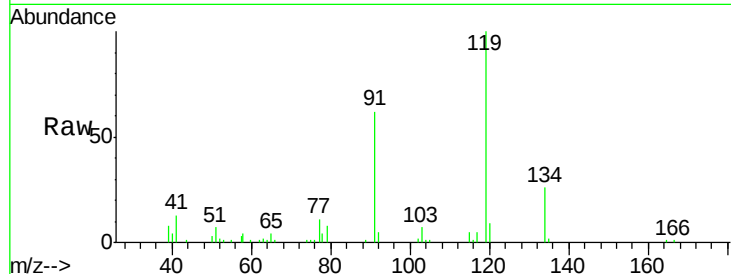




#83
tert-Butylbenzene
Concen: 2.619 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

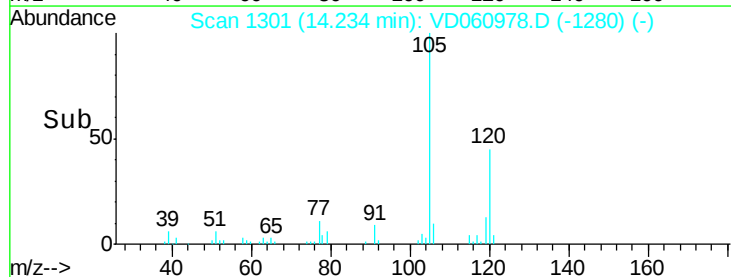
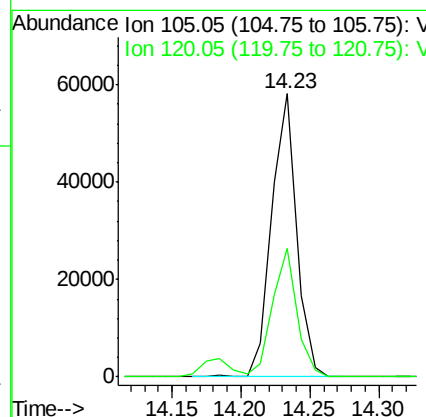
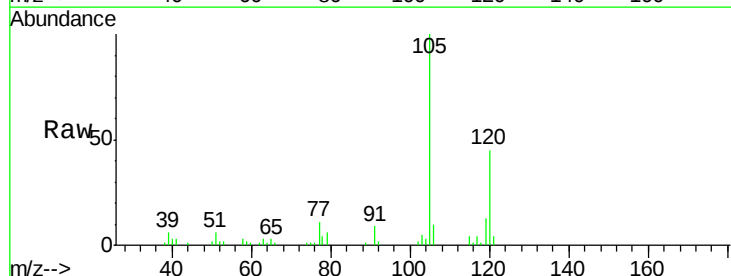
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

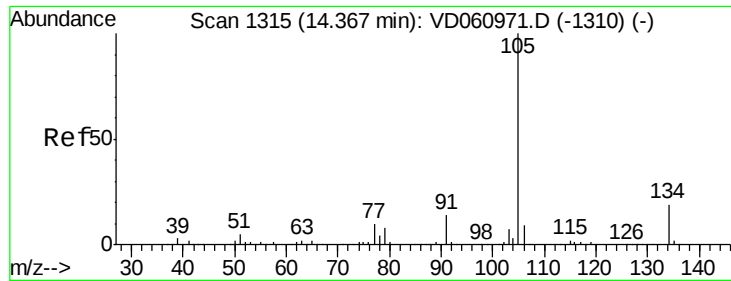
Tot Ion:119 Resp: 75619
Ion Ratio Lower Upper
119 100
91 61.7 30.1 90.3
134 26.4 11.6 34.7



#84
1,2,4-Trimethylbenzene
Concen: 2.777 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion:105 Resp: 73262
Ion Ratio Lower Upper
105 100
120 45.2 22.9 68.5





#85

sec-Butylbenzene

Concen: 2.536 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

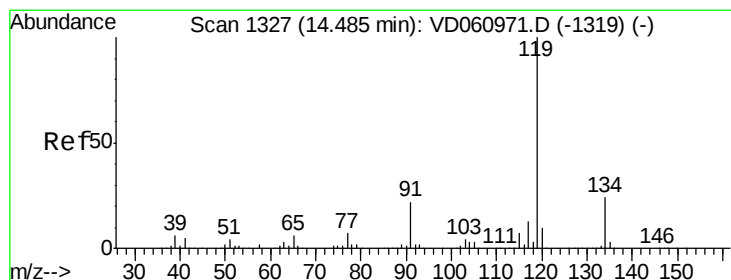
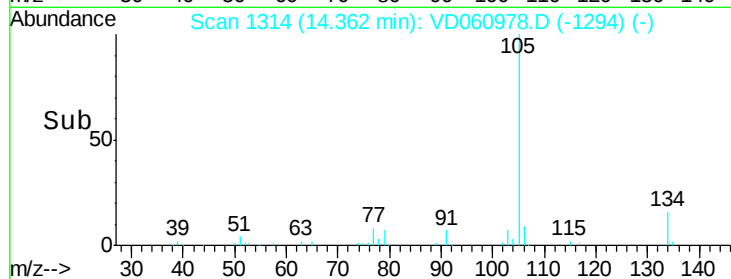
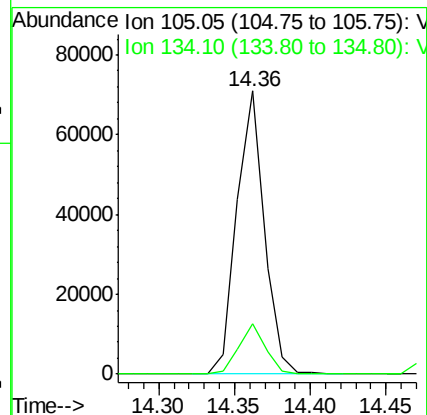
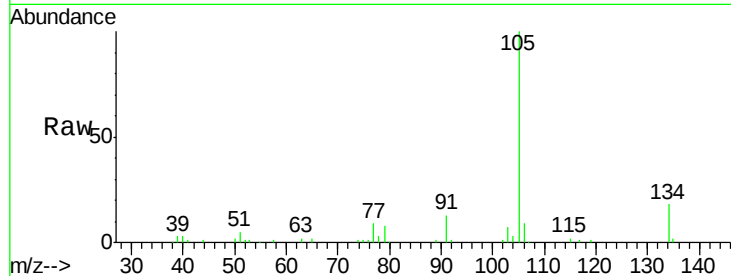
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:105 Resp: 89407

Ion Ratio Lower Upper

105 100

134 17.9 9.4 28.2



#86

p-Isopropyltoluene

Concen: 2.830 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

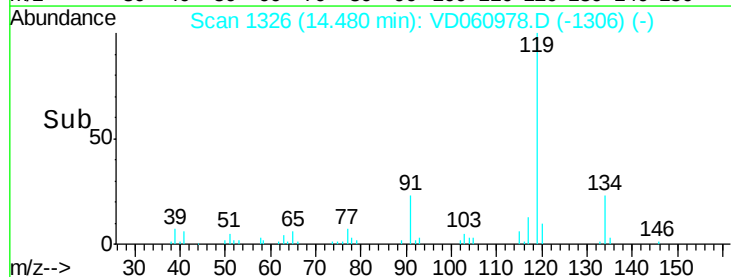
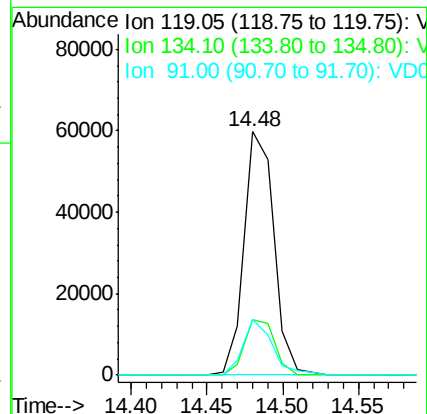
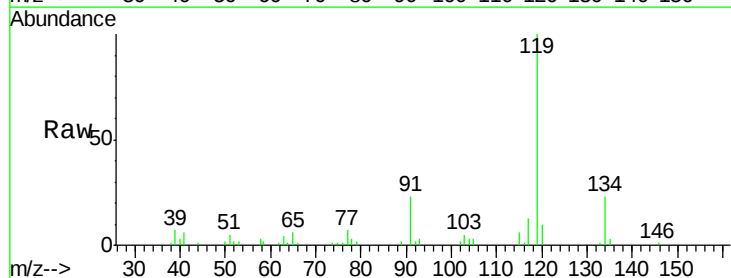
Tgt Ion:119 Resp: 81547

Ion Ratio Lower Upper

119 100

134 23.0 12.0 36.1

91 22.7 11.2 33.6

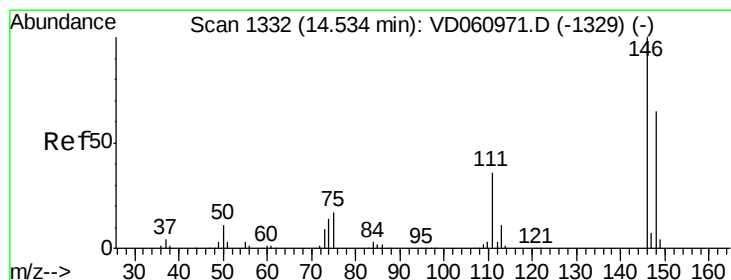
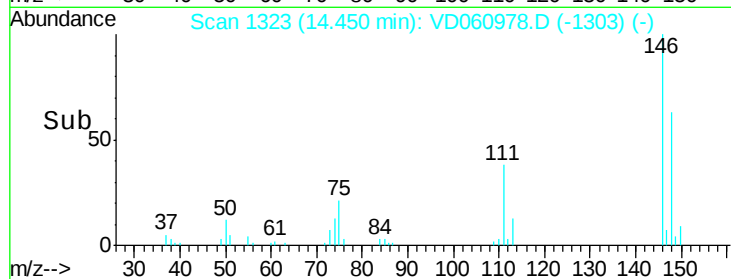
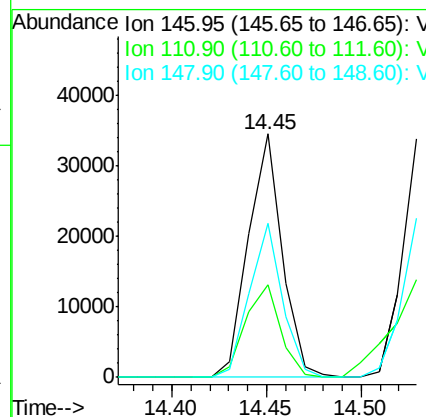
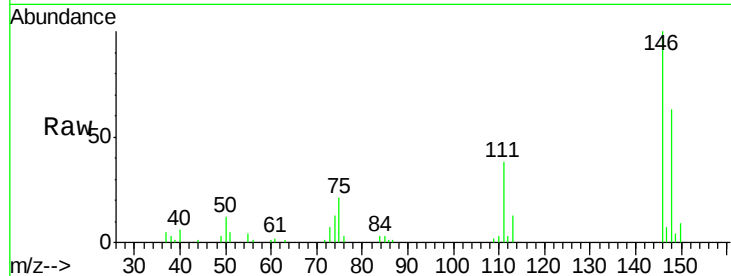




#87
 1,3-Dichlorobenzene
 Concen: 2.692 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

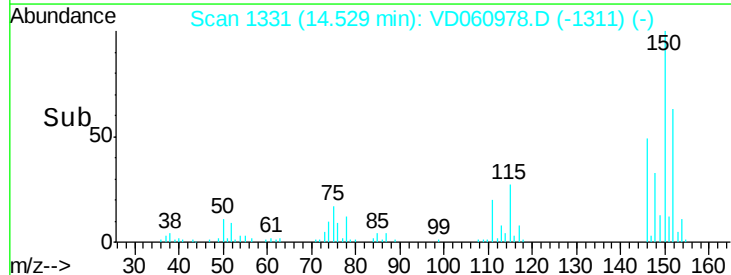
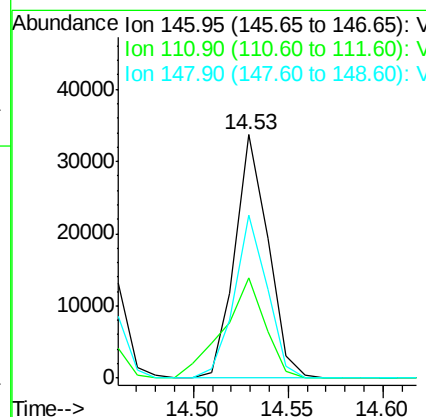
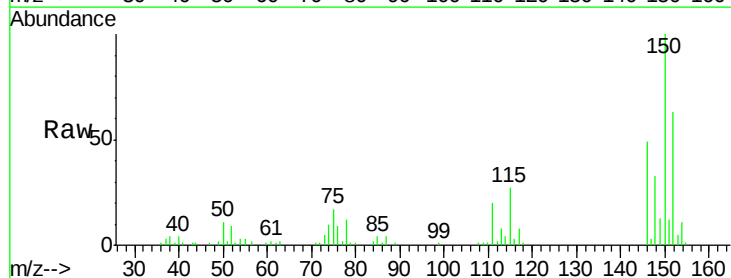
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

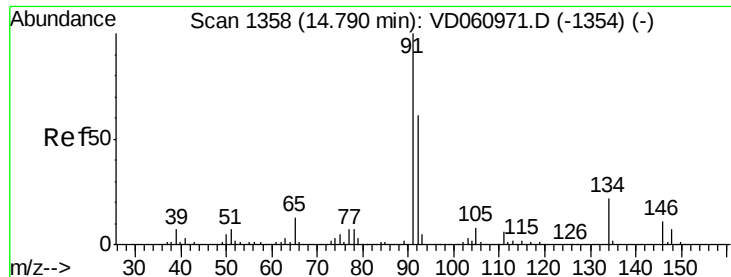
Tot Ion:146 Resp: 42654
 Ion Ratio Lower Upper
 146 100
 111 38.0 18.4 55.4
 148 63.5 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 2.620 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion:146 Resp: 40787
 Ion Ratio Lower Upper
 146 100
 111 40.9 18.4 55.2
 148 66.9 32.5 97.5





#89

n-Butylbenzene

Concen: 2.580 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD060978.D

Acq: 8 Mar 2019 12:34

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

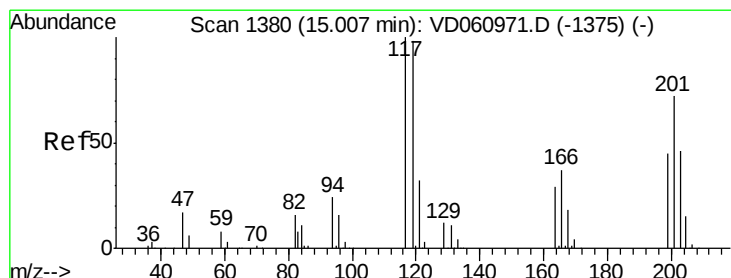
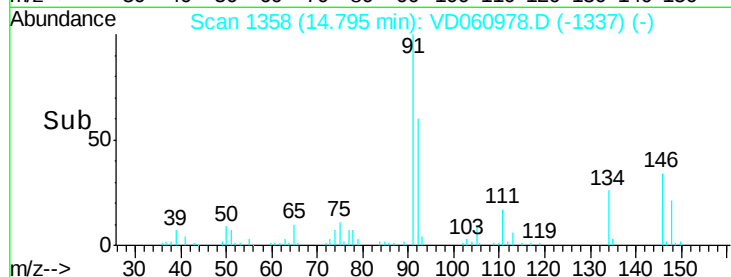
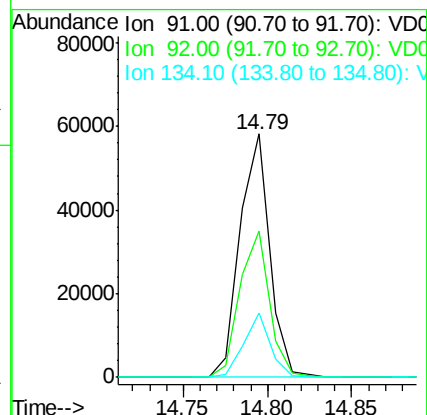
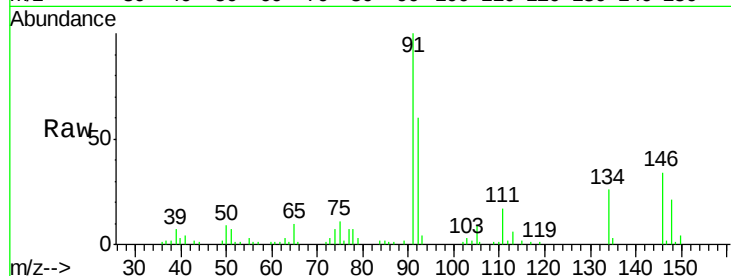
Tot Ion: 91 Resp: 71389

Ion Ratio Lower Upper

91 100

92 60.2 30.6 91.8

134 26.3 11.0 33.0



#90

Hexachloroethane

Concen: 2.273 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD060978.D

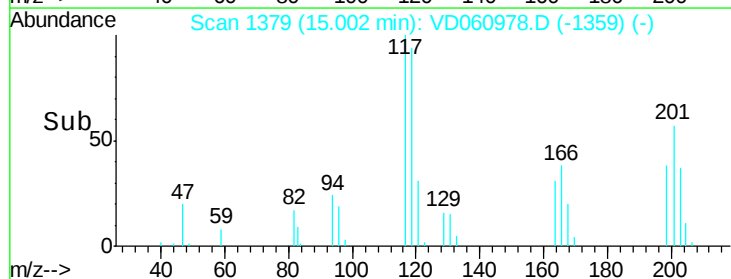
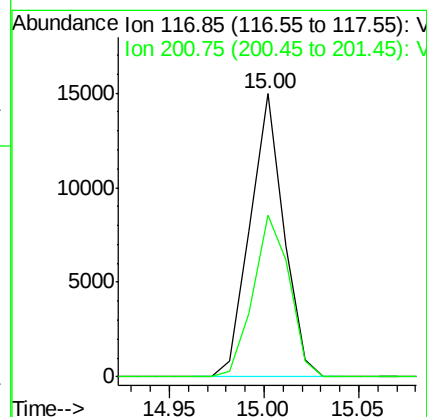
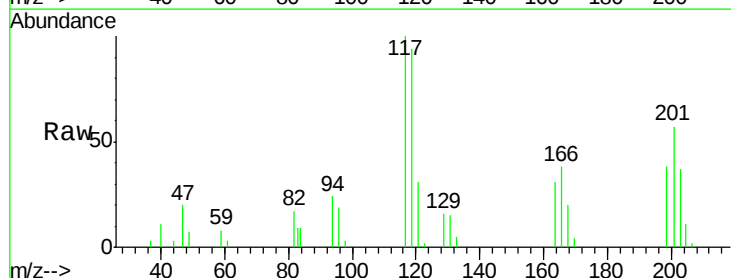
Acq: 8 Mar 2019 12:34

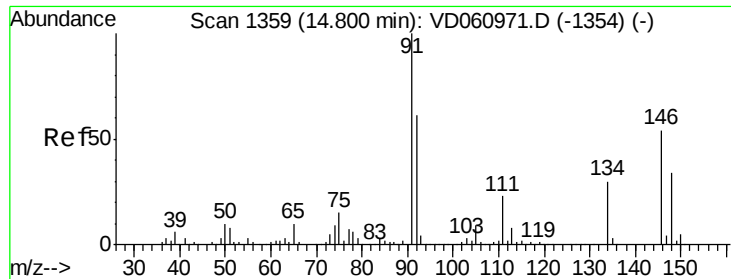
Tgt Ion: 117 Resp: 18498

Ion Ratio Lower Upper

117 100

201 57.1 36.2 108.6

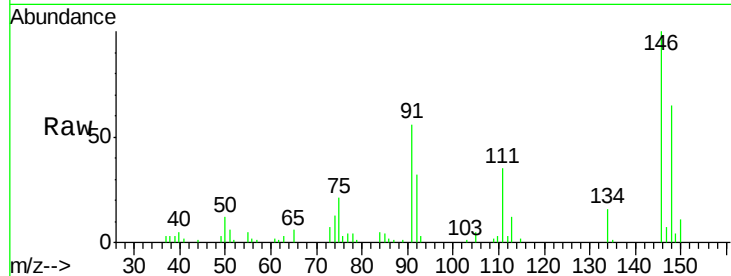




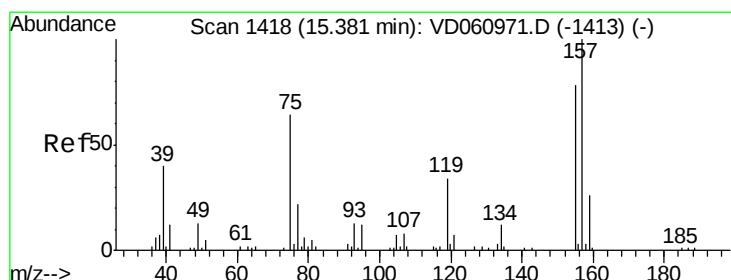
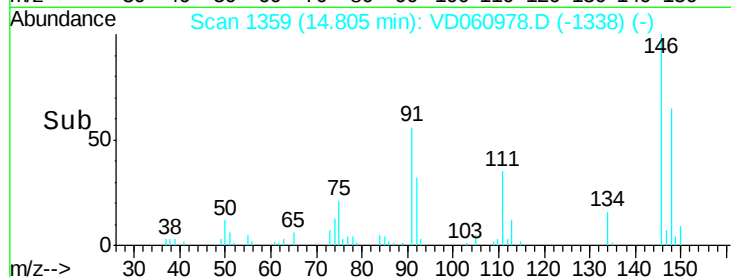
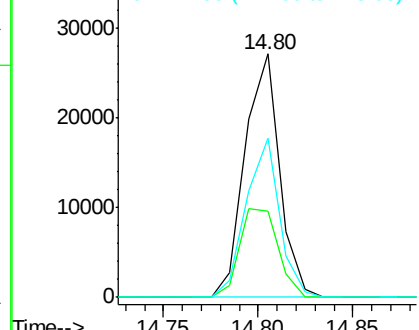
#91
 1,2-Dichlorobenzene
 Concen: 2.602 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion:146 Resp: 34370
 Ion Ratio Lower Upper
 146 100
 111 35.4 21.5 64.5
 148 65.2 30.9 92.8

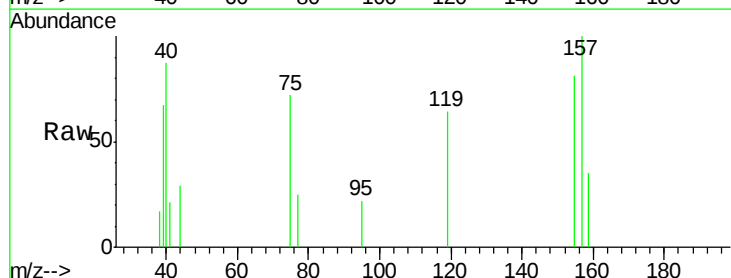


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

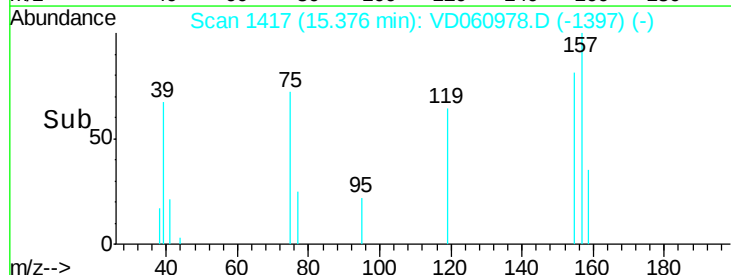
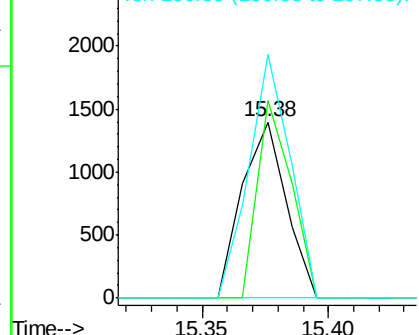


#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.078 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion: 75 Resp: 1698
 Ion Ratio Lower Upper
 75 100
 155 112.2 61.2 183.5
 157 138.2 78.3 234.8



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

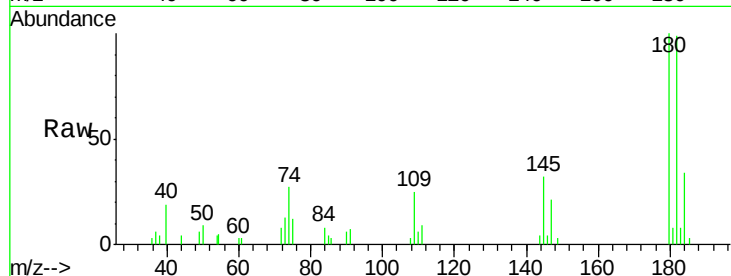




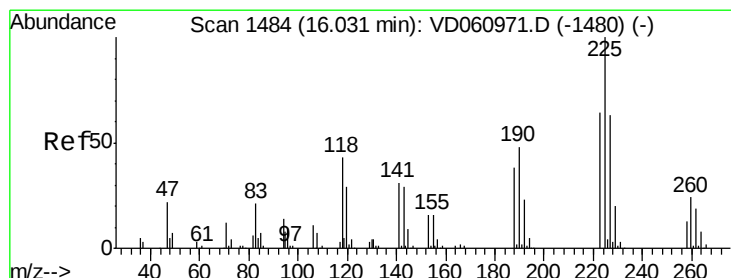
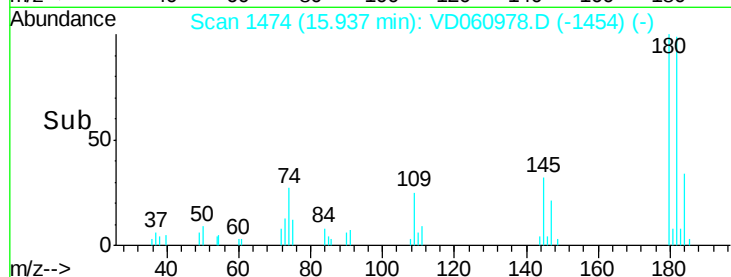
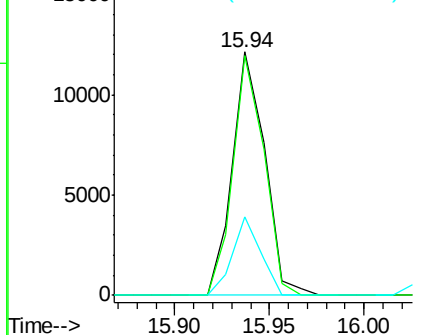
#93
 1,2,4-Trichlorobenzene
 Concen: 2.340 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2019

Tot Ion:180 Resp: 14338
 Ion Ratio Lower Upper
 180 100
 182 98.6 47.3 142.0
 145 32.5 14.4 43.0

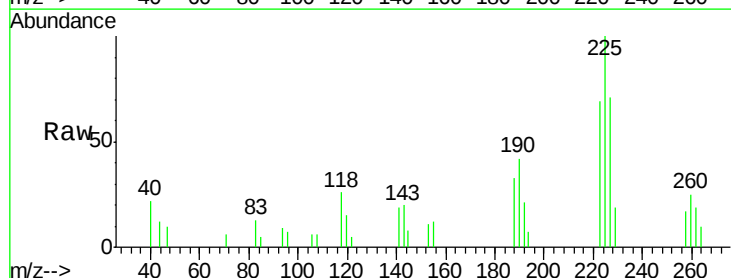


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

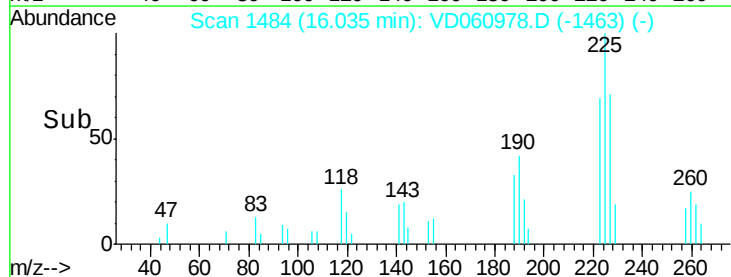
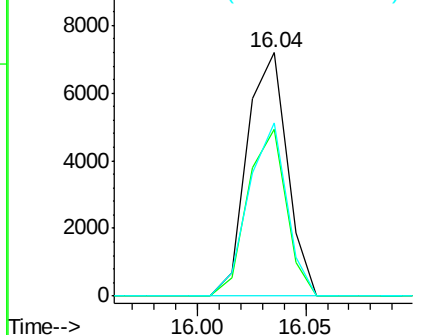


#94
 Hexachlorobutadiene
 Concen: 1.987 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion:225 Resp: 9206
 Ion Ratio Lower Upper
 225 100
 223 68.7 31.8 95.3
 227 70.9 31.4 94.0



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

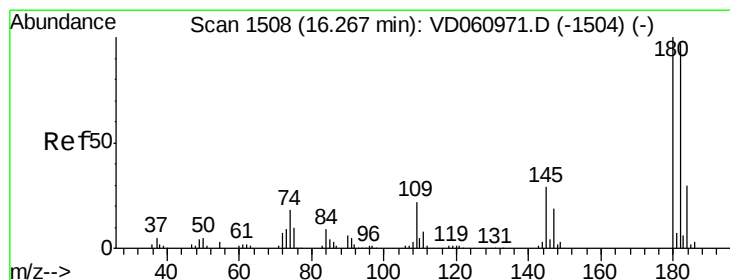
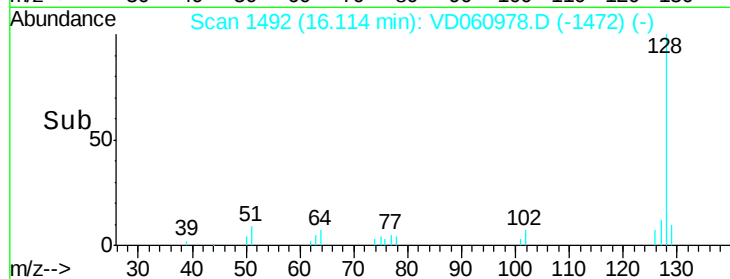
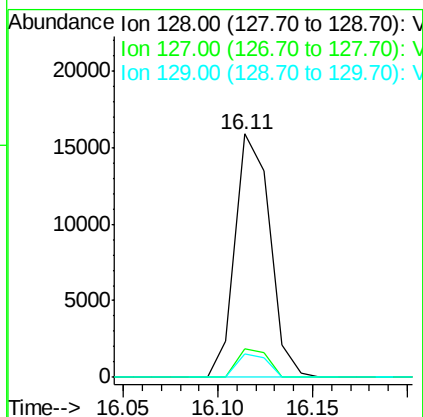
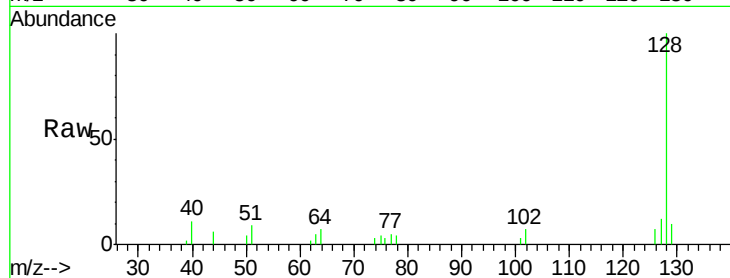




#95
Naphthalene
Concen: 2.167 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2019

Tot Ion:128 Resp: 20177
Ion Ratio Lower Upper
128 100
127 11.7 9.8 14.8
129 9.6 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 2.157 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion:180 Resp: 6527
Ion Ratio Lower Upper
180 100
182 94.3 48.6 145.8
145 34.1 14.3 42.9

