

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

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:20:32 PM

Quant Time: Mar 09 01:06:33 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

33) 1,2-Dichloroethane-d4	7.44	65	328954	57.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.24%	
35) Dibromofluoromethane	6.92	113	541785	57.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.38%	
50) Toluene-d8	10.40	98	1260723	52.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.98%	
62) 4-Bromofluorobenzene	13.54	95	500631	54.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.46%	

Target Compounds

					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	4.01	59	9943m	27.120	ug/l	
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

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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	13.47	75	4747m	2.321	ug/l	
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

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ClientSampleId :
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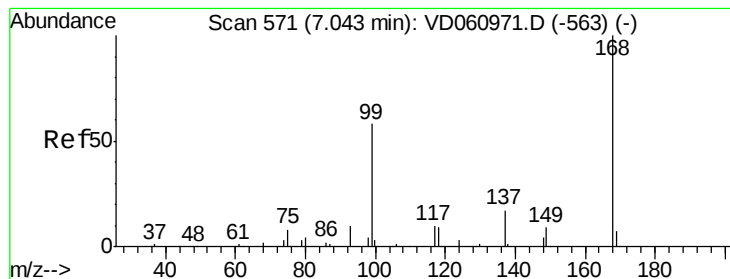
Manual Integrations
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Response via : Initial Calibration

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



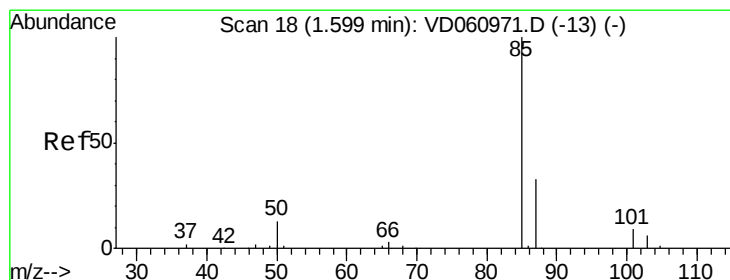
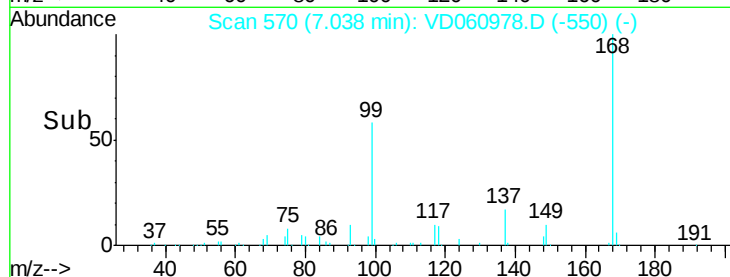
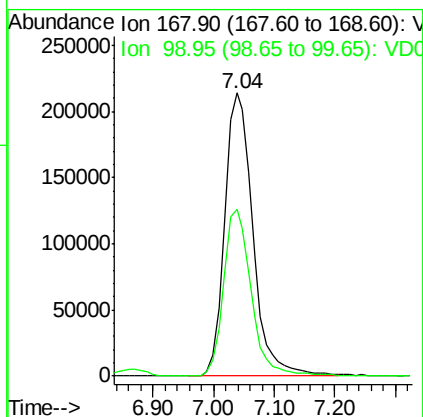
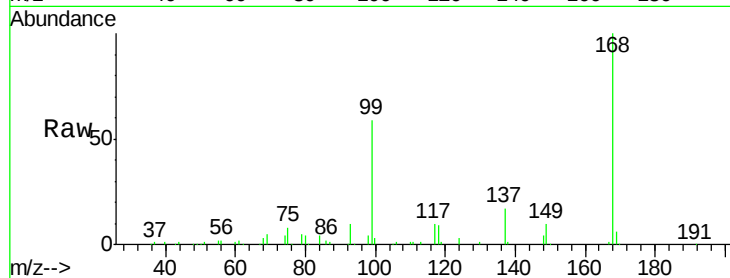
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion	Ratio	Lower	Upper
168	100		
99	59.2	47.3	70.9

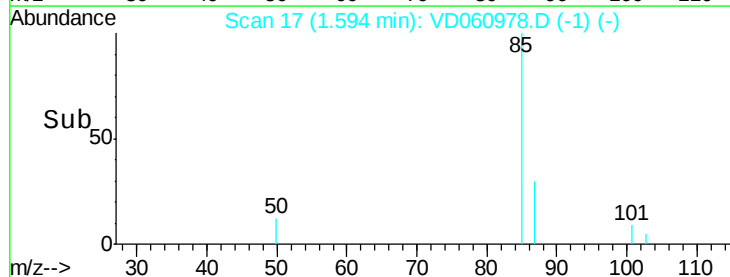
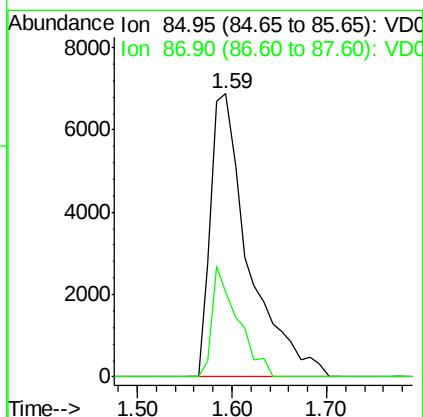
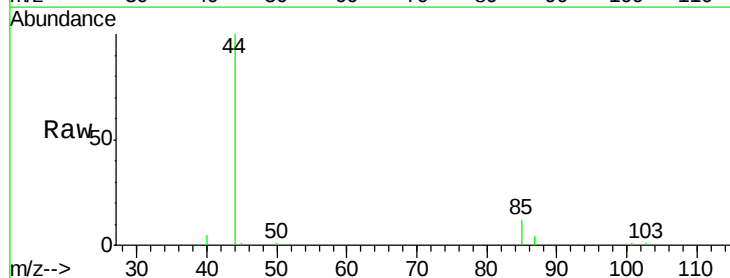
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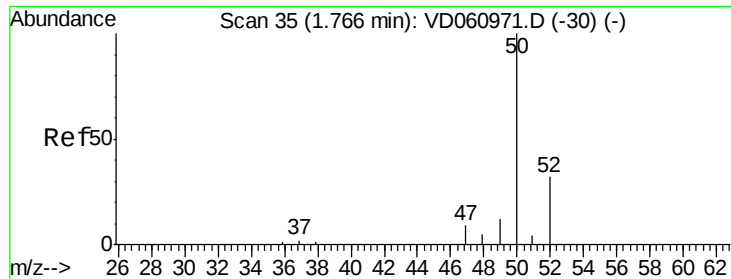
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#2
Dichlorodifluoromethane
Concen: 2.832 ug/l
RT: 1.59 min Scan# 17
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.1	16.4	49.4





#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

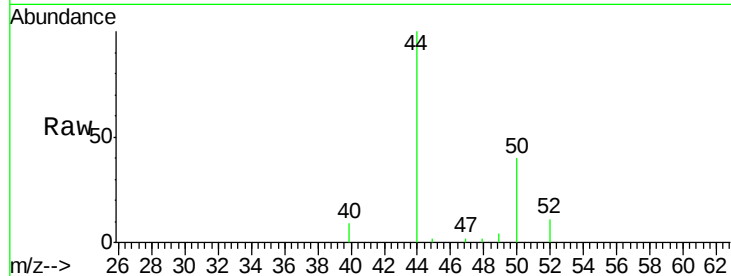
52 27.7 25.8 38.8

Manual Integrations

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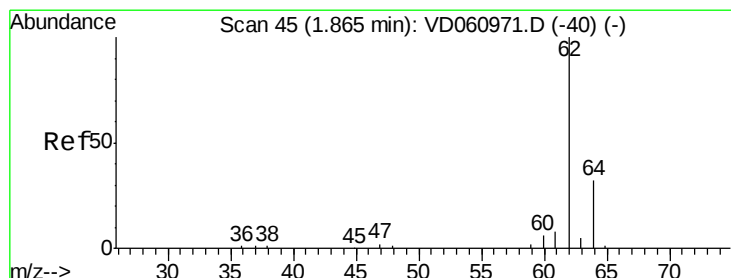
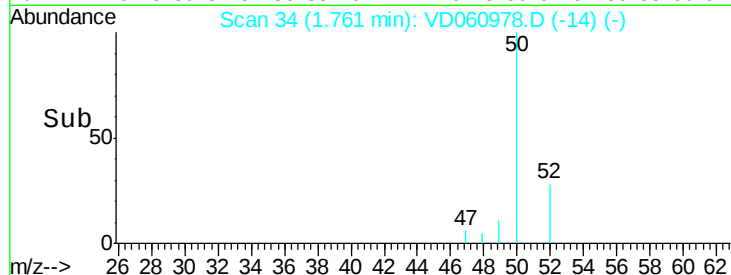
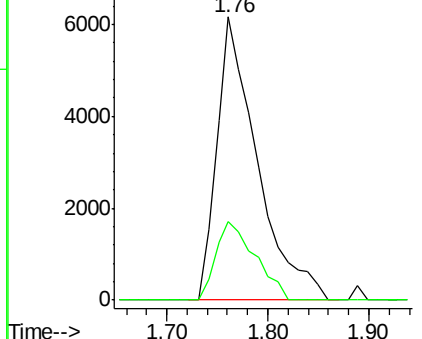
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Abundance Ion 49.90 (49.60 to 50.60): VDC

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

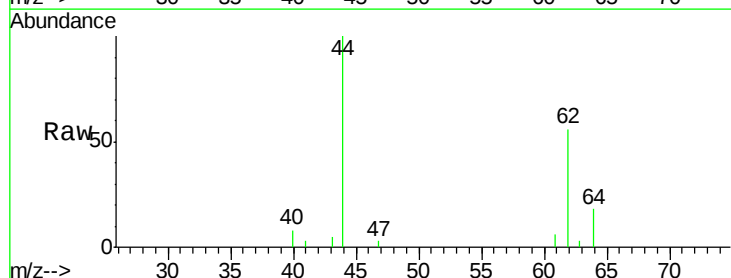
Acq: 8 Mar 2019 12:34

Tgt Ion: 62 Resp: 12916

Ion Ratio Lower Upper

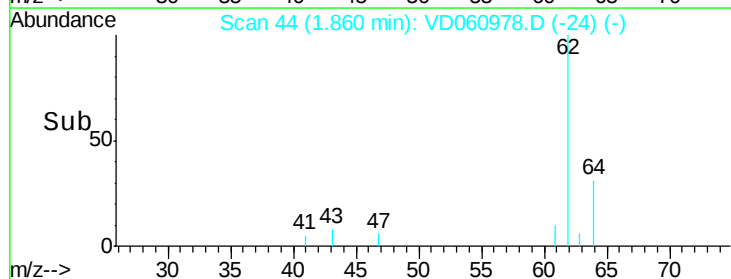
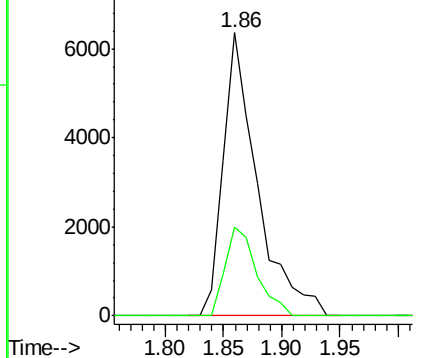
62 100

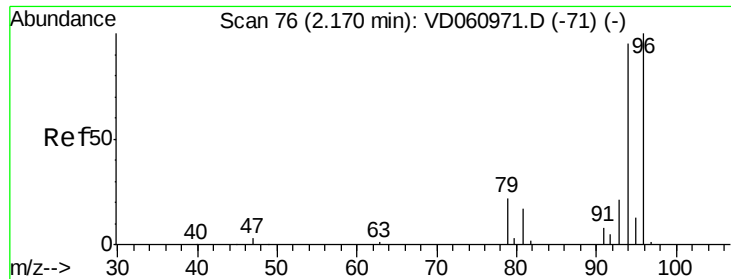
64 31.2 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





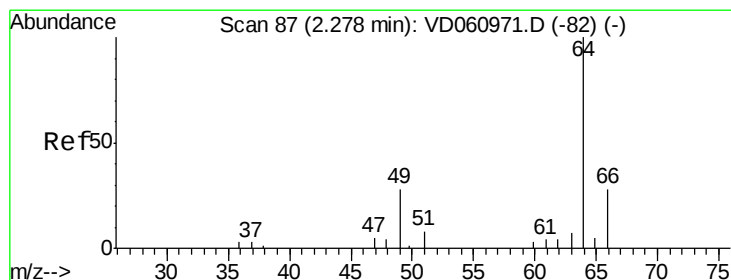
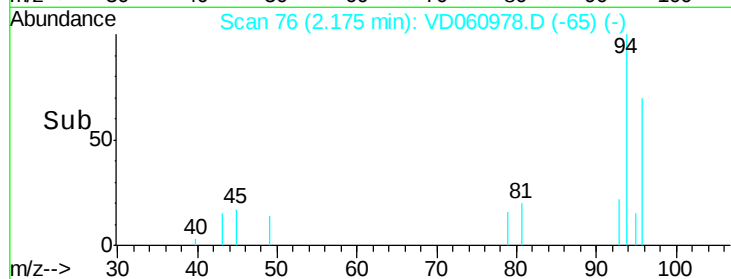
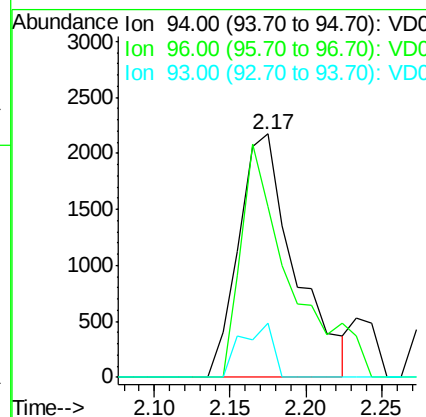
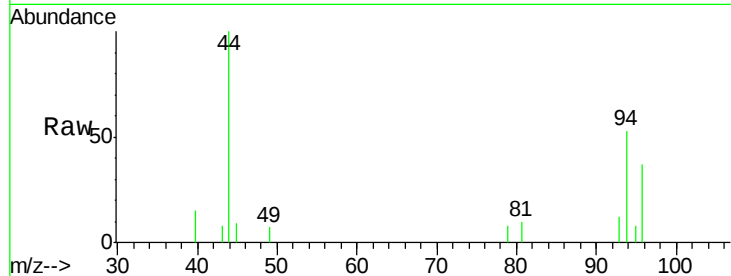
#5
Bromomethane
Concen: 4.453 ug/l
RT: 2.17 min Scan# 76
Delta R.T. 0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Instrument :
MSVOA_D
ClientSampleId :
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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

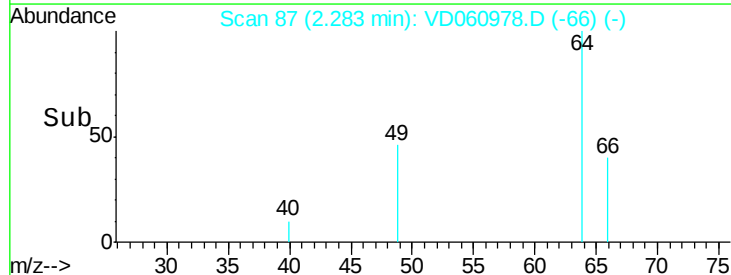
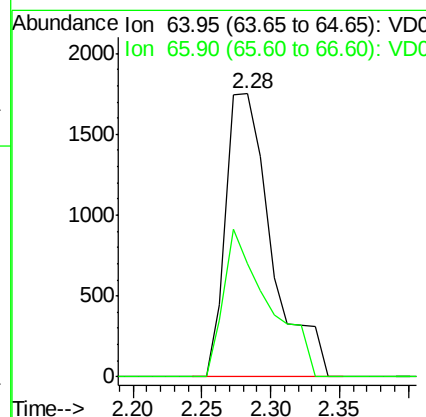
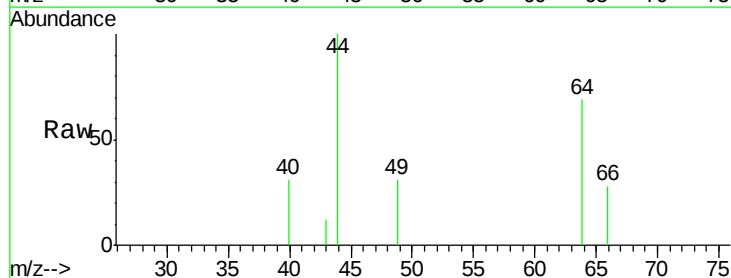
Manual Integrations
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#6
Chloroethane
Concen: 2.573 ug/l
RT: 2.28 min Scan# 87
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion: 64 Resp: 4063
Ion Ratio Lower Upper
64 100
66 40.1 22.2 33.2#





#7

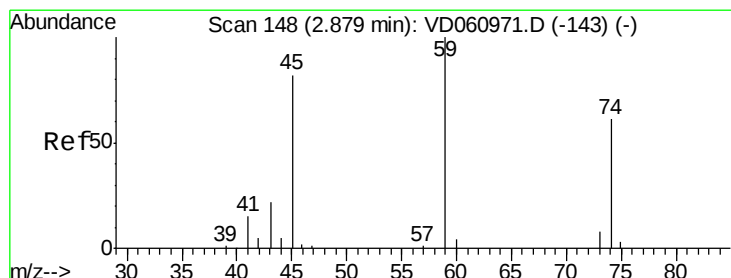
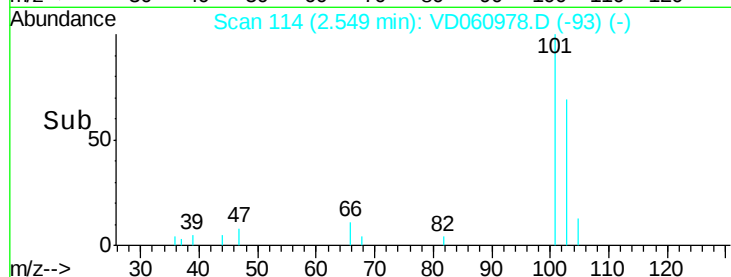
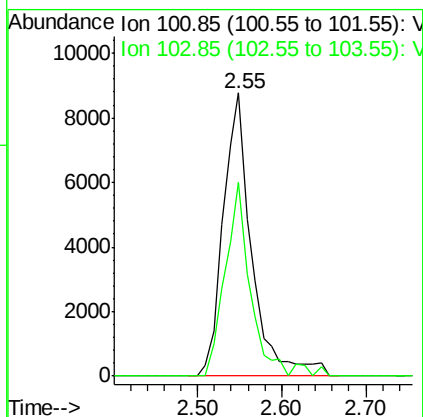
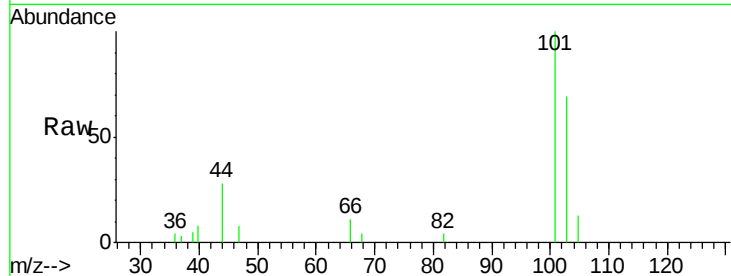
Trichlorofluoromethane
 Concen: 2.702 ug/l
 RT: 2.55 min Scan# 114
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

Manual Integrations
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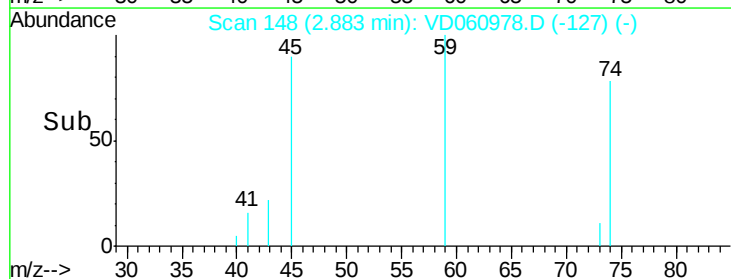
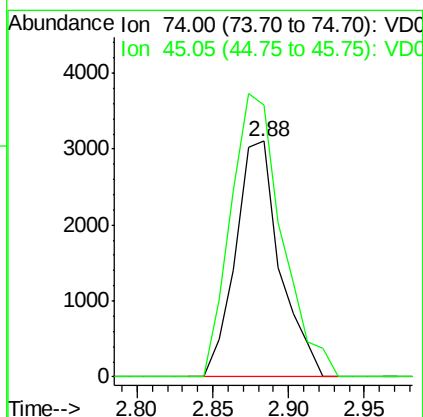
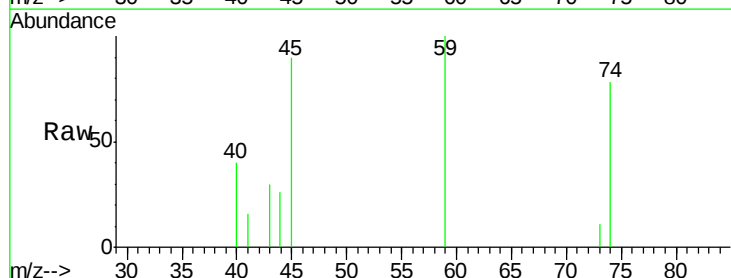
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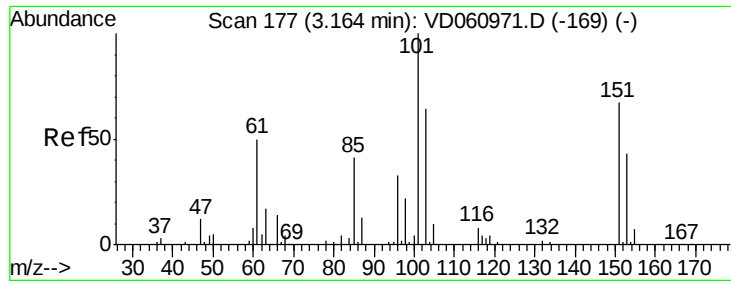


#8

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

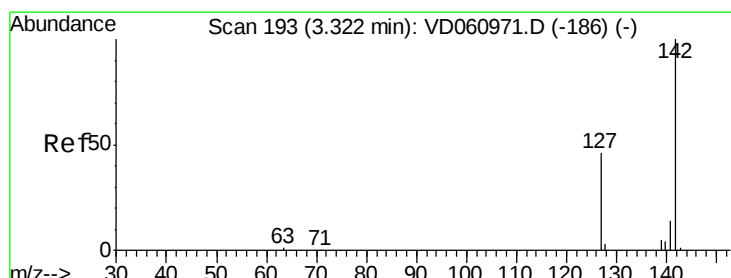
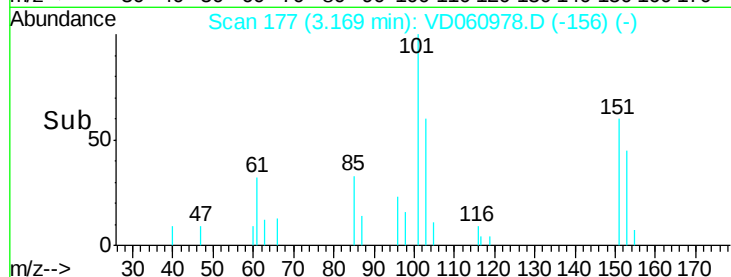
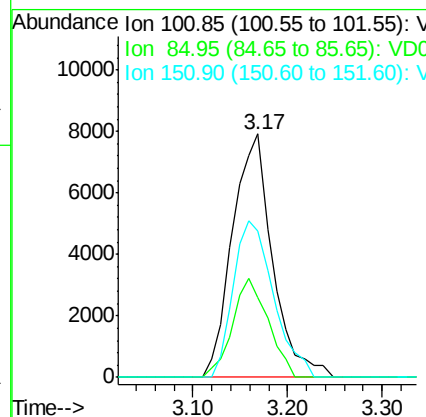
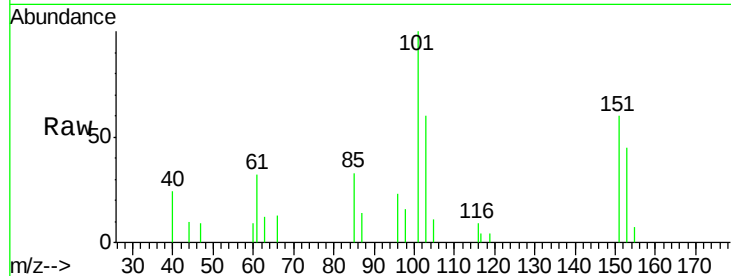
ClientSampleId :

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

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#10

Methyl Iodide

Concen: 4.698 ug/l

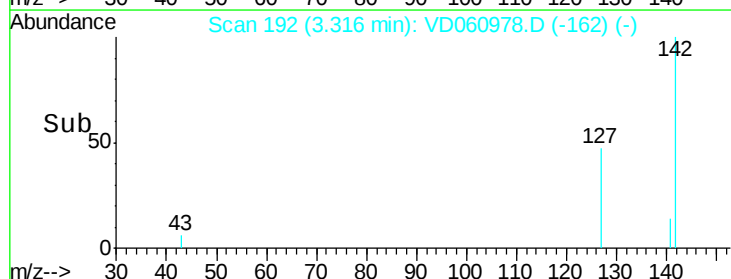
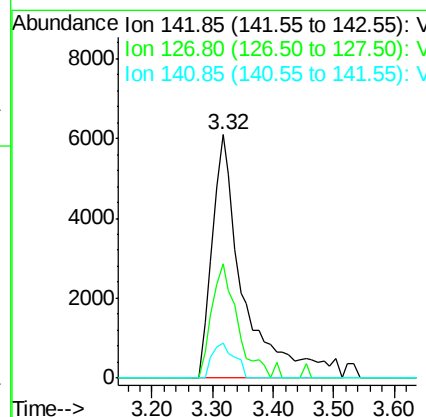
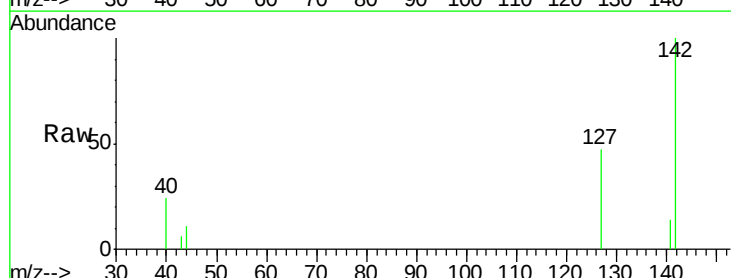
RT: 3.32 min Scan# 192

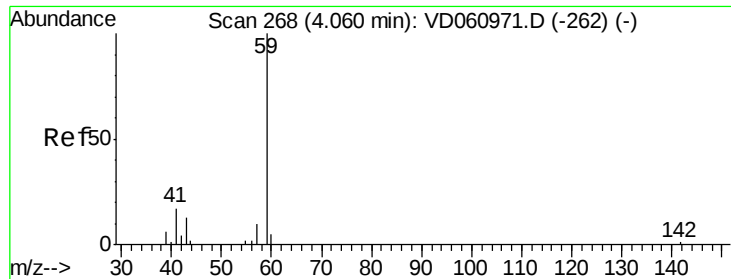
Delta R.T. -0.00 min

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





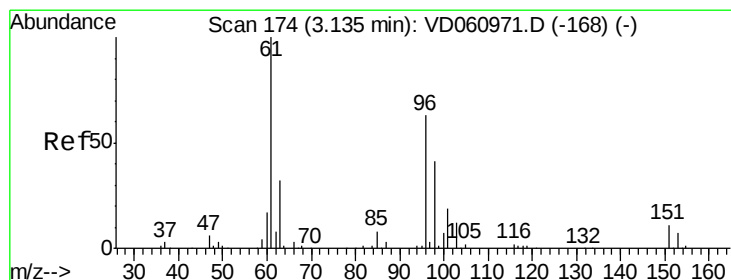
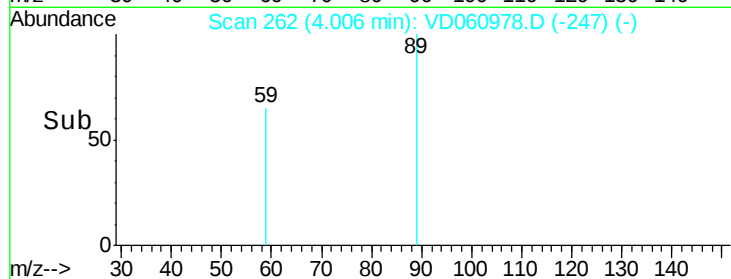
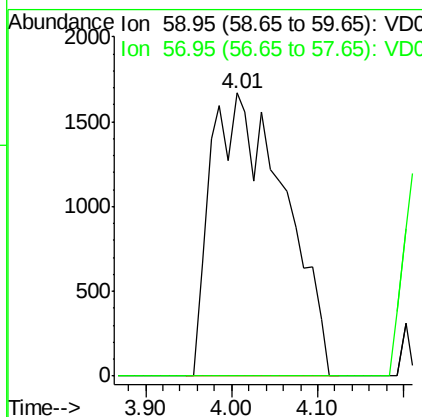
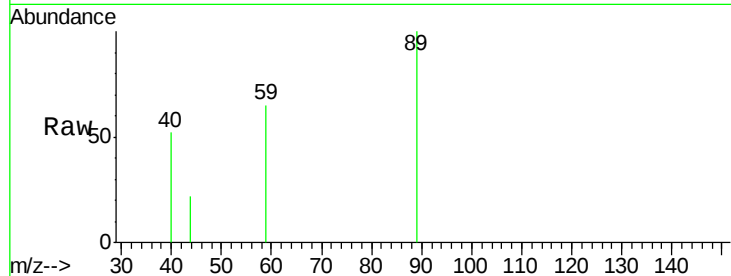
#11
Tert butyl alcohol
Concen: 27.120 ug/l m
RT: 4.01 min Scan# 262
Delta R.T. -0.05 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion: 59 Resp: 9943
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#

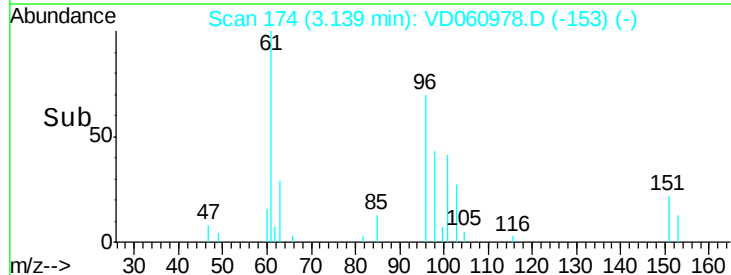
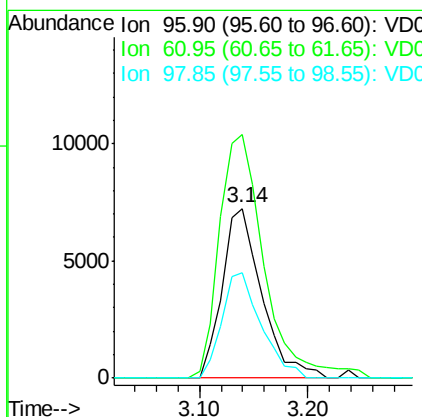
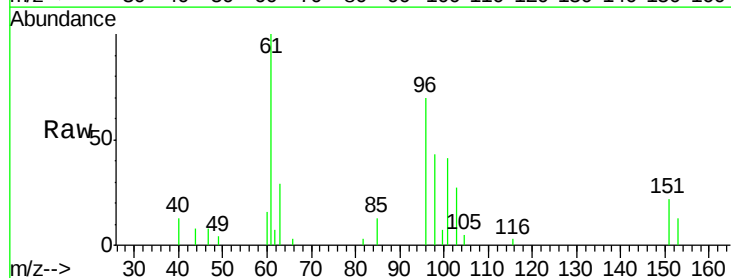
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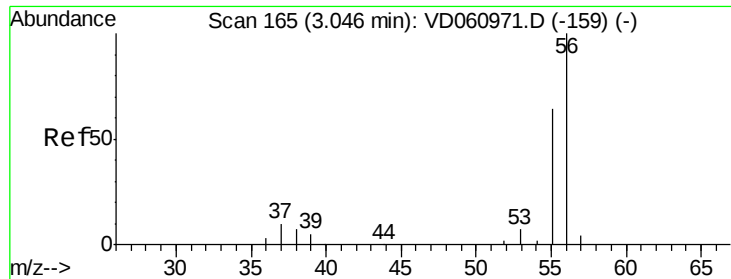
MMDadoda
3/11/2019 12:20:32 PM



#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





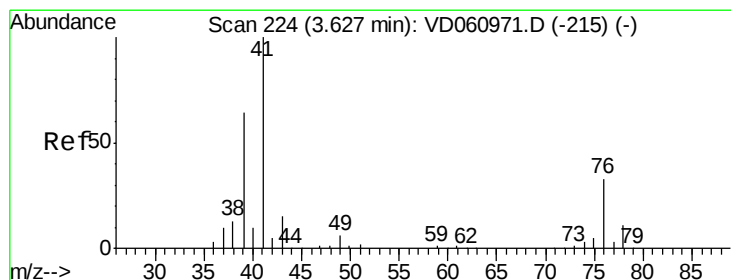
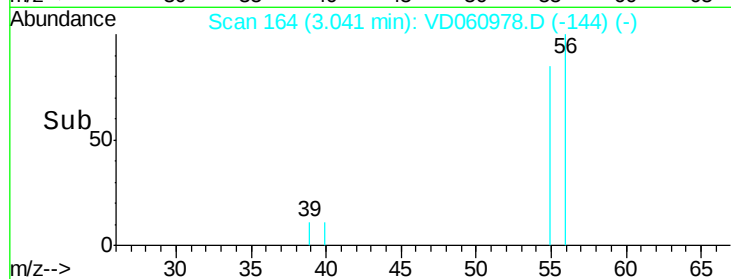
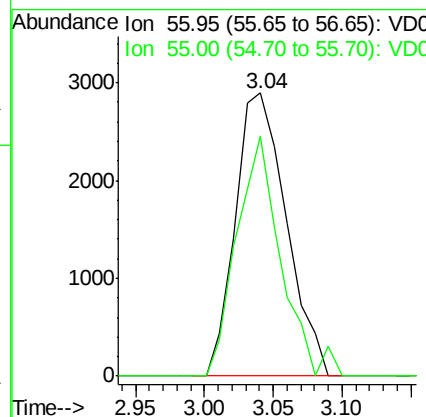
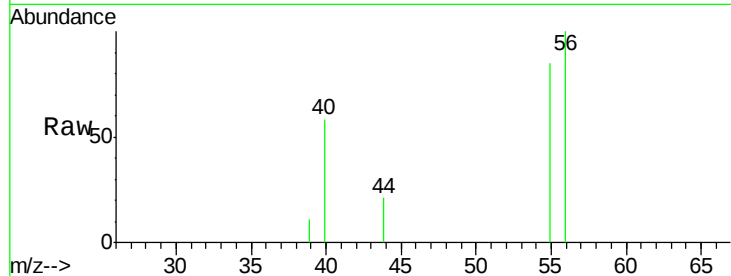
#13
Acrolein
Concen: 14.019 ug/l
RT: 3.04 min Scan# 164
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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#

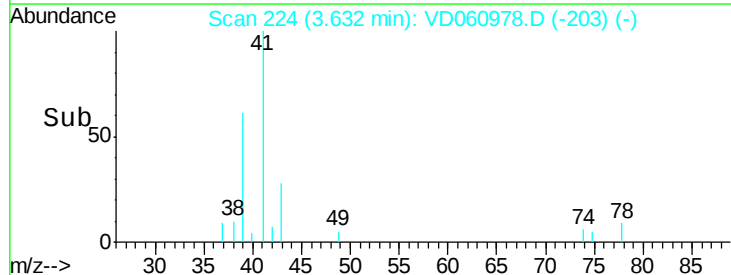
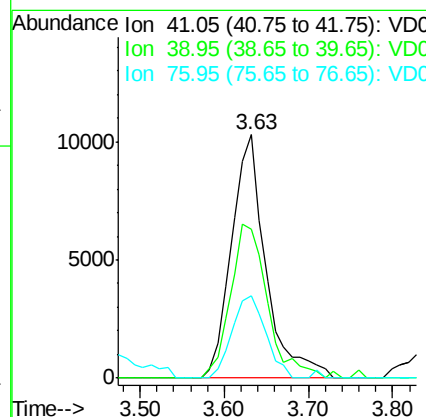
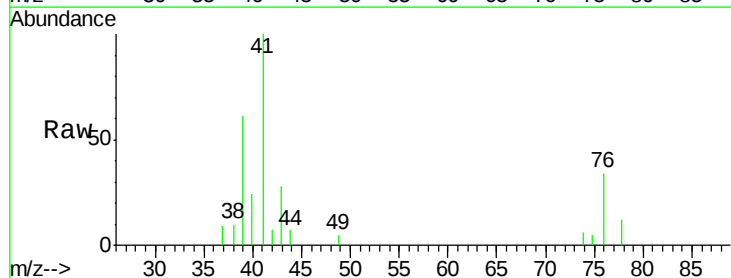
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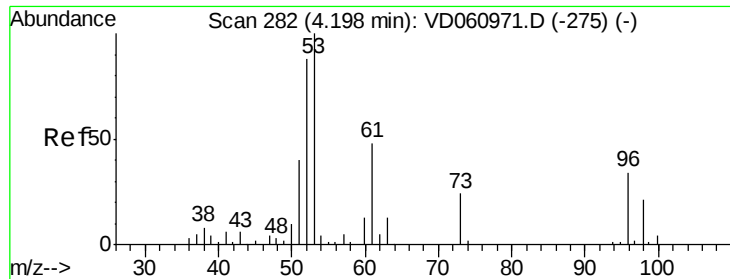
MMDadoda
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#14
Allyl chloride
Concen: 2.623 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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





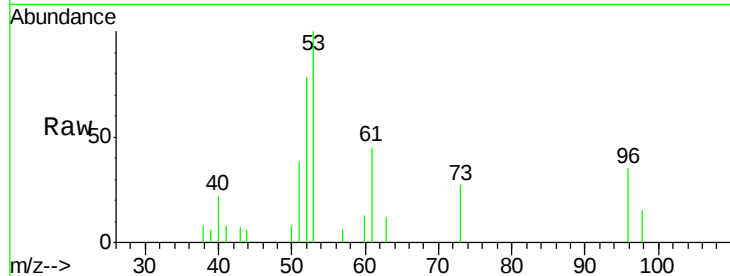
#15
 Acrylonitrile
 Concen: 14.346 ug/l
 RT: 4.19 min Scan# 281
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

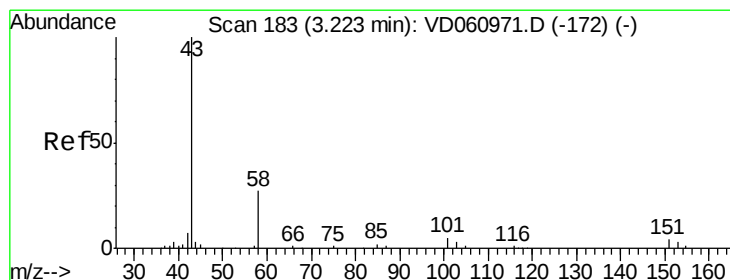
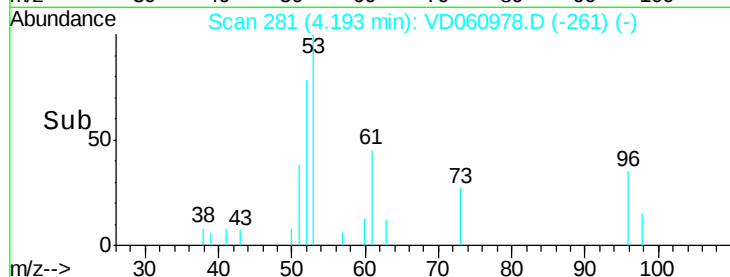
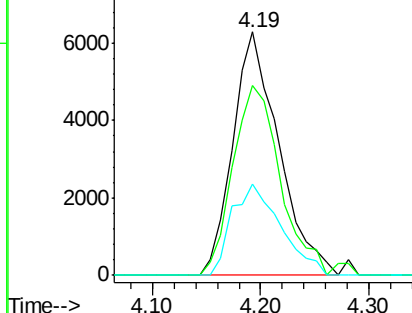
Tot Ion	53	Resp	18590
Ion Ratio	100	Lower	Upper
52	77.8	70.2	105.4
51	37.6	31.7	47.5

Manual Integrations
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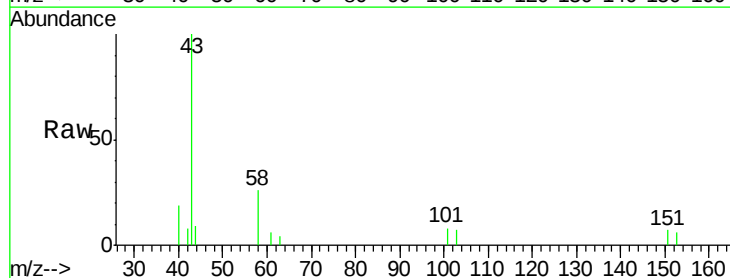


Abundance Ion 53.00 (52.70 to 53.70): VDC
 Ion 52.00 (51.70 to 52.70): VDC
 Ion 51.00 (50.70 to 51.70): VDC

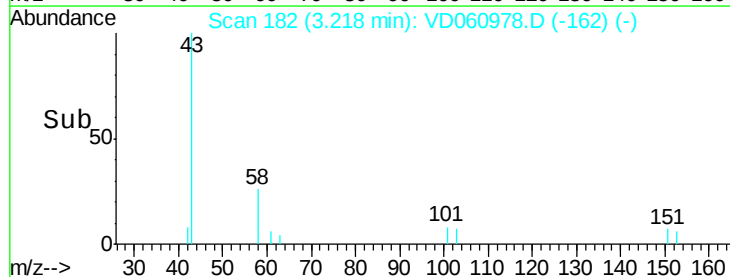
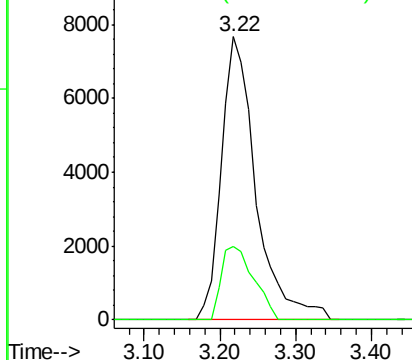


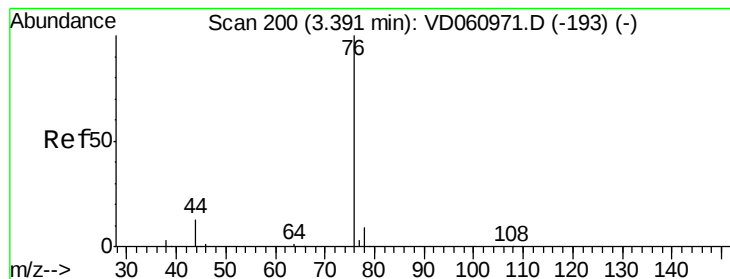
#16
 Acetone
 Concen: 14.733 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

Tgt Ion	43	Resp	24263
Ion Ratio	100	Lower	Upper
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

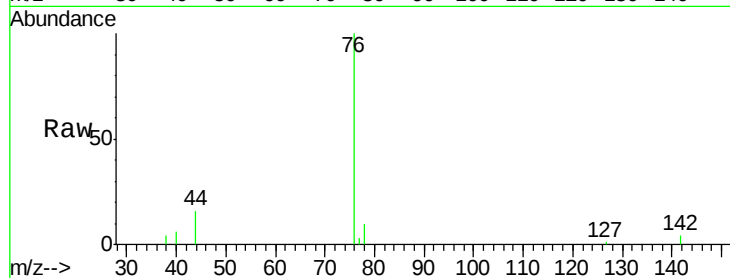
78 10.0 7.4 11.2

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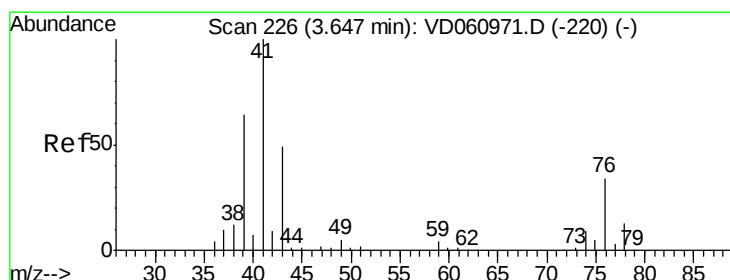
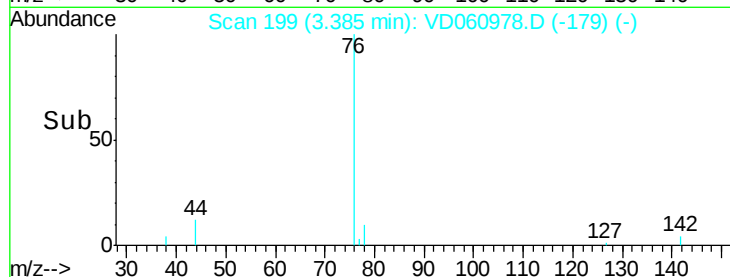
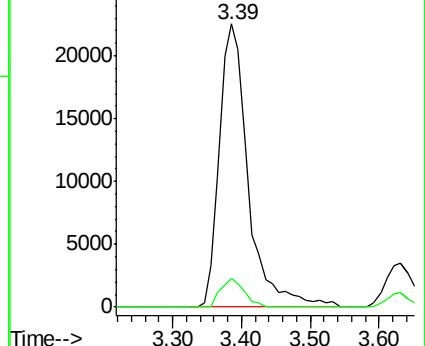
MMDadoda

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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

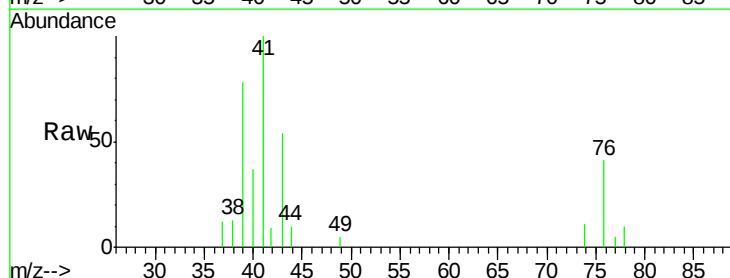
Acq: 8 Mar 2019 12:34

Tgt Ion: 43 Resp: 9802

Ion Ratio Lower Upper

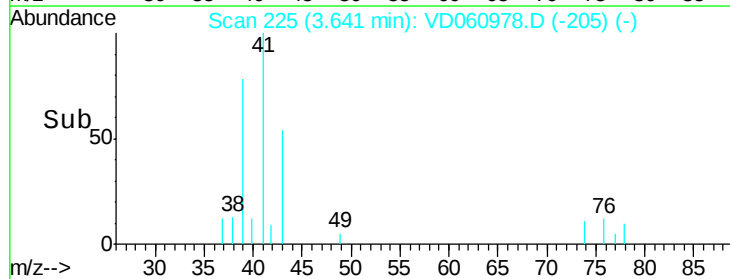
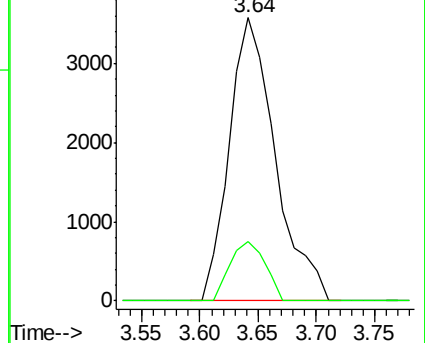
43 100

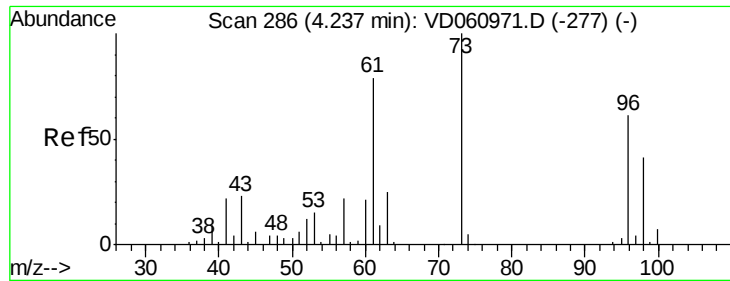
74 21.2 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





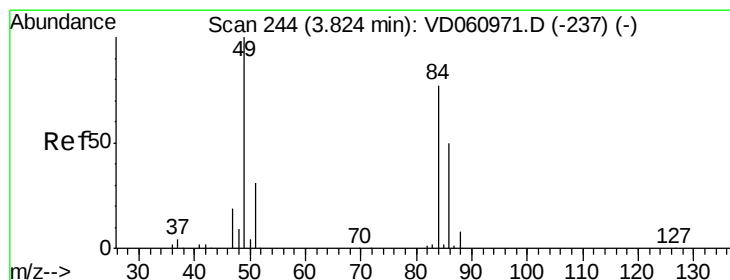
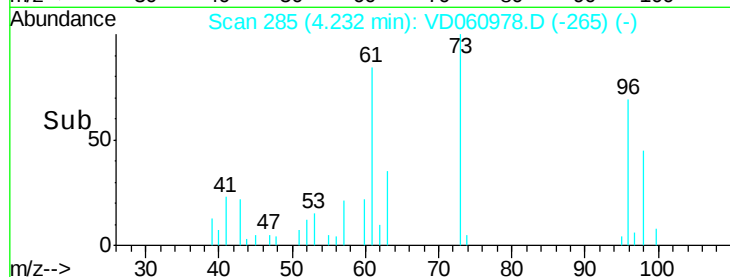
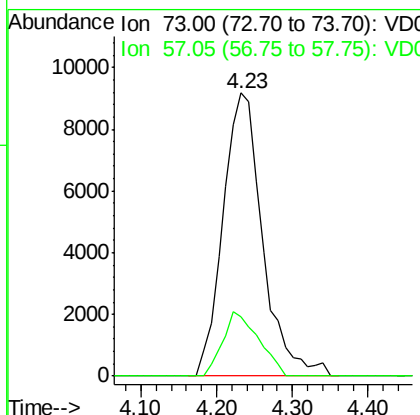
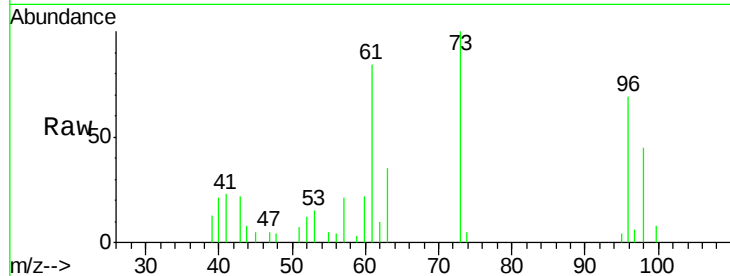
#19
Methyl tert-butyl Ether
Concen: 2.730 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

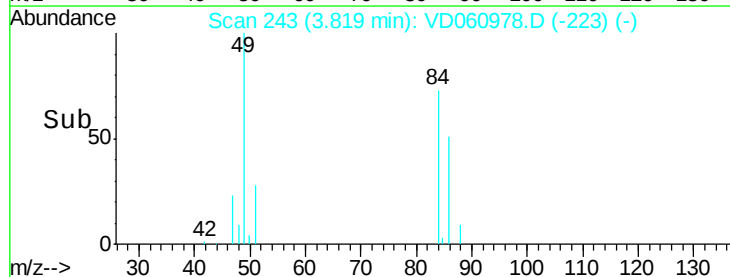
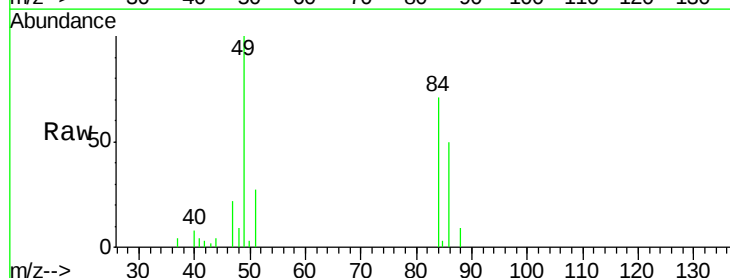
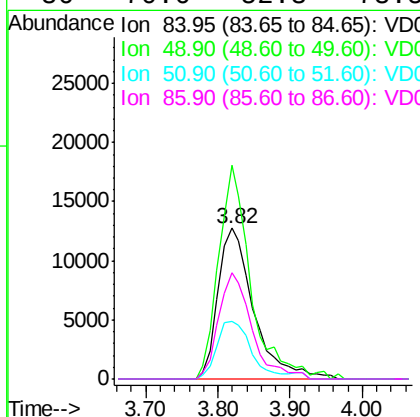
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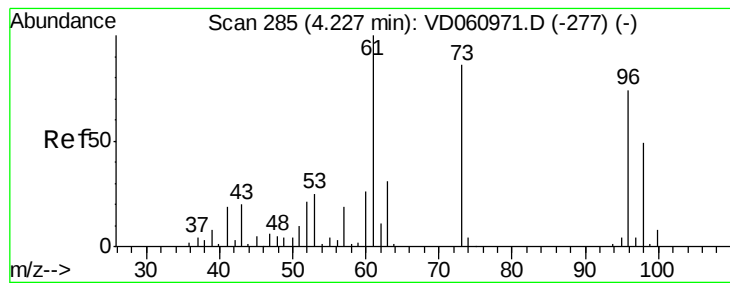
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#20
Methylene Chloride
Concen: 1.272 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

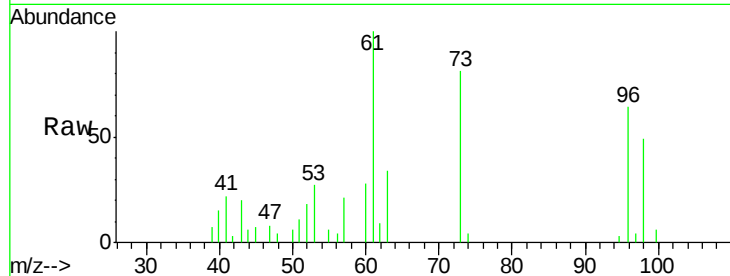
98 76.6 53.0 79.4

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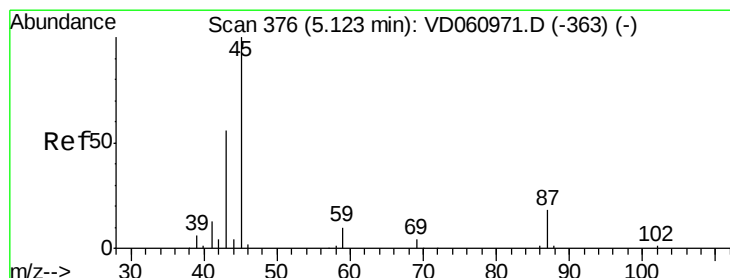
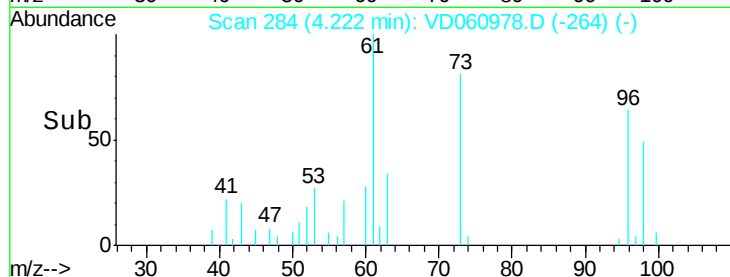
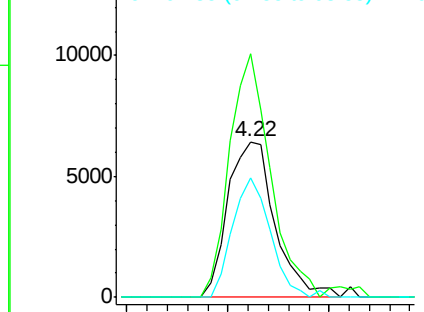
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Abundance Ion 95.90 (95.60 to 96.60): VDC

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

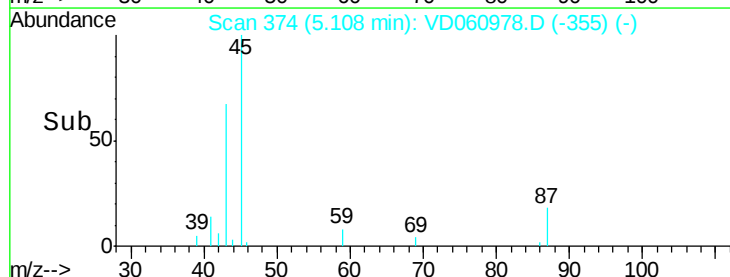
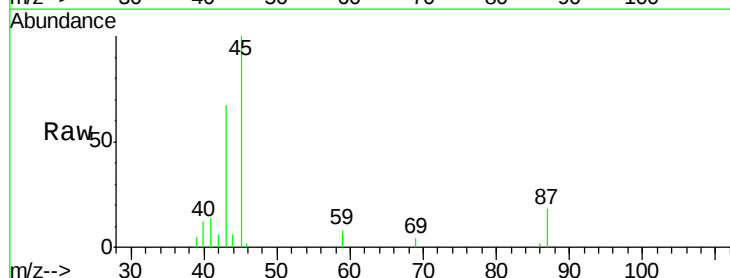
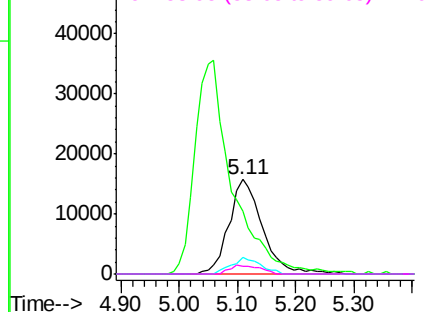
59 8.3 8.0 12.0

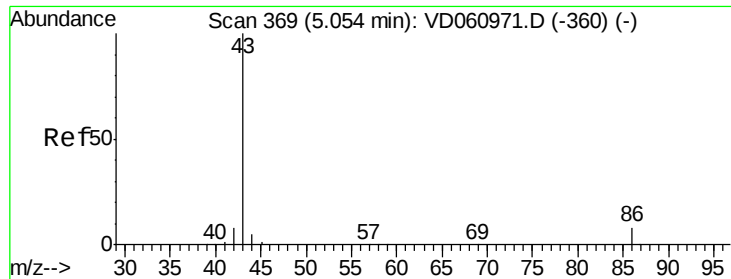
Abundance Ion 45.05 (44.75 to 45.75): VDC

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

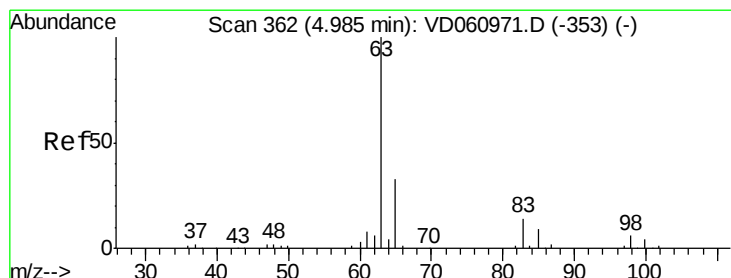
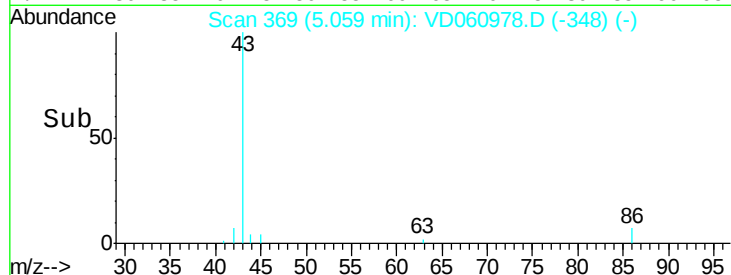
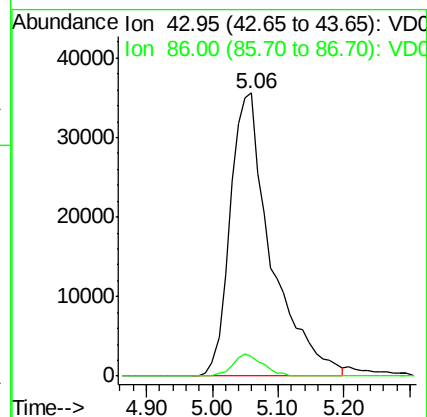
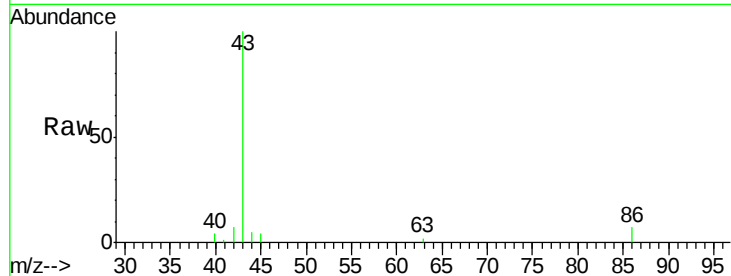
86 6.8 6.2 9.2

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#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

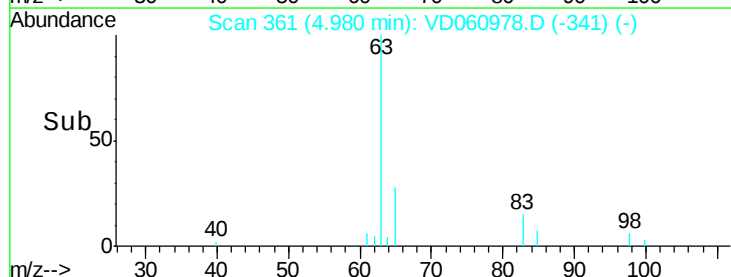
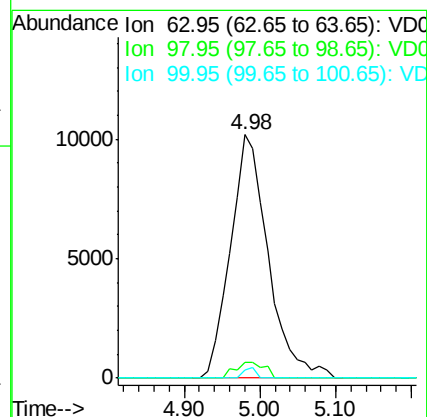
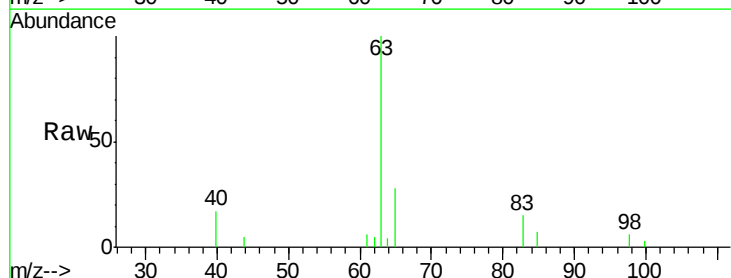
Tgt Ion: 63 Resp: 35161

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

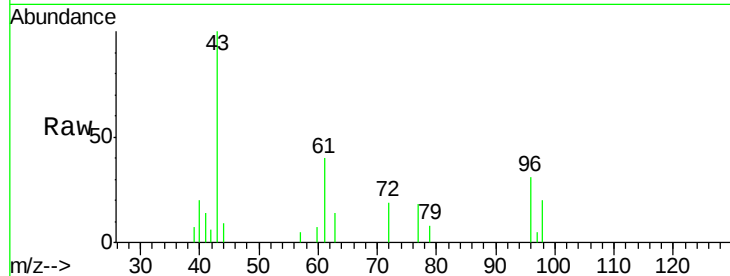
72 18.6 16.7 25.1

Manual Integrations

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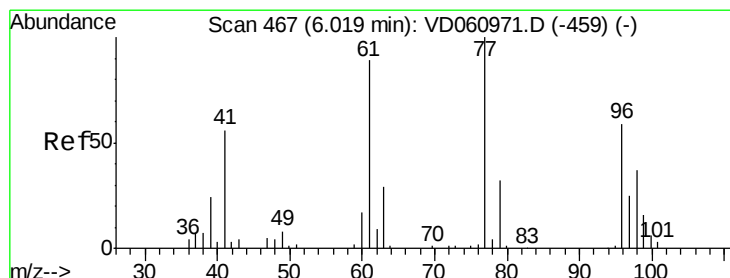
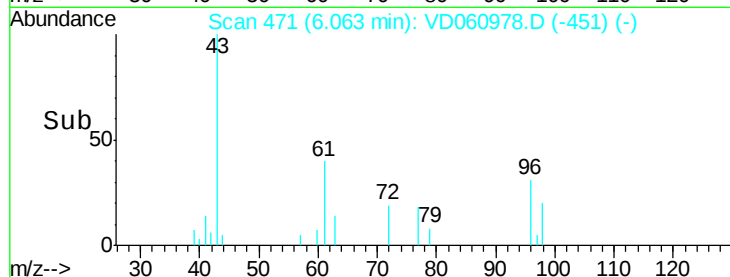
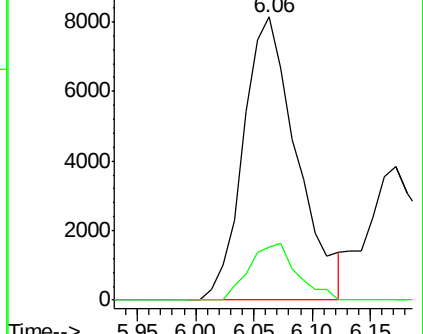
MMDadoda

3/11/2019 12:20:32 PM



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

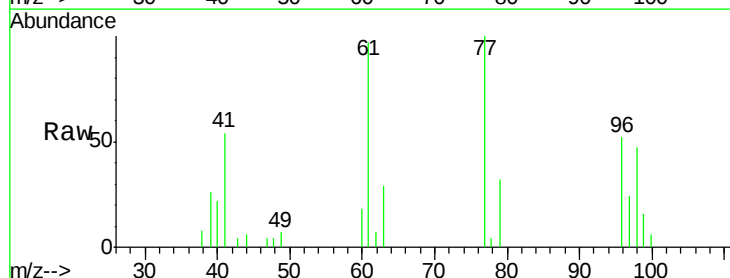
Acq: 8 Mar 2019 12:34

Tgt Ion: 77 Resp: 27042

Ion Ratio Lower Upper

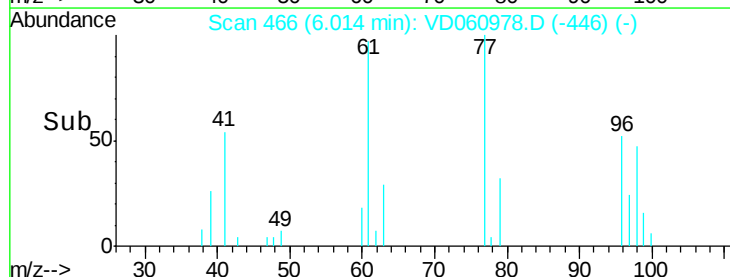
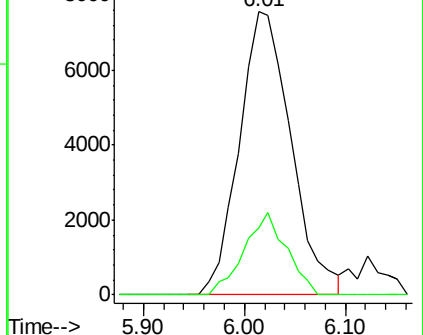
77 100

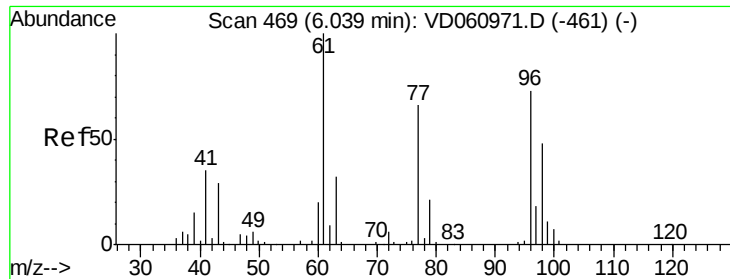
97 23.8 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

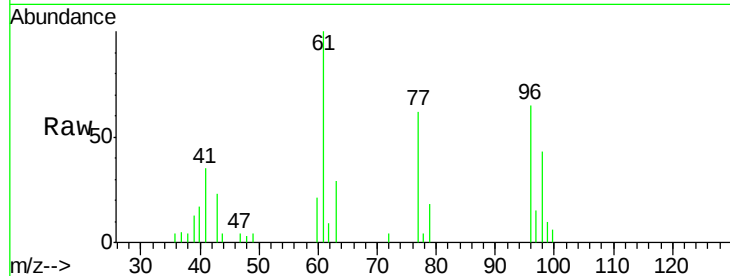
cis-1,2-Dichloroethene
Concen: 2.685 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

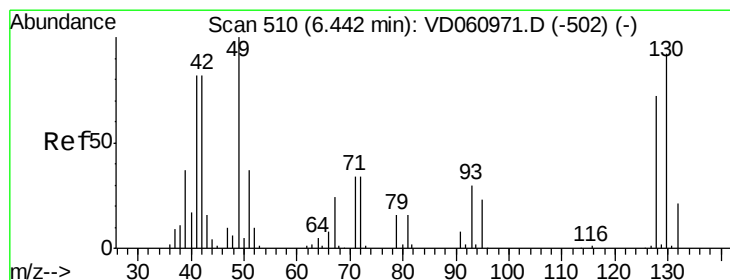
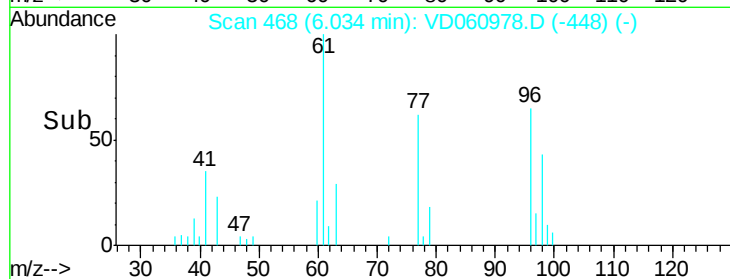
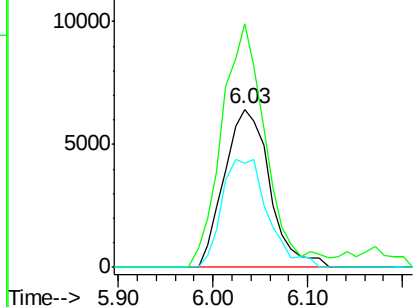
Tot Ion	Ratio	Lower	Upper
96	100		
61	154.1	0.0	273.6
98	65.6	0.0	132.6

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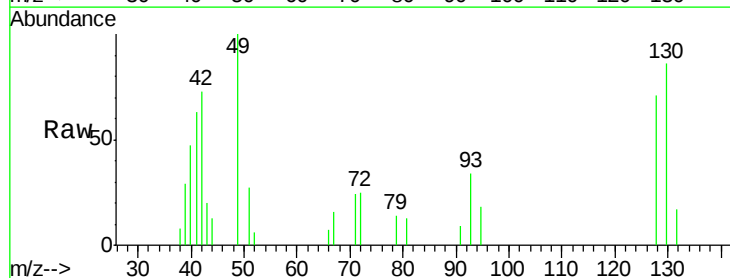
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



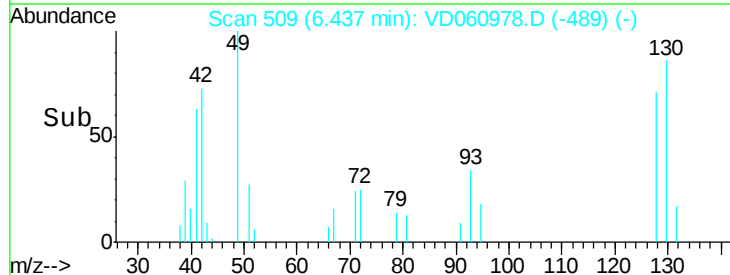
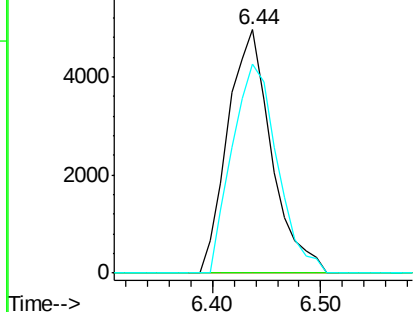
#28

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	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





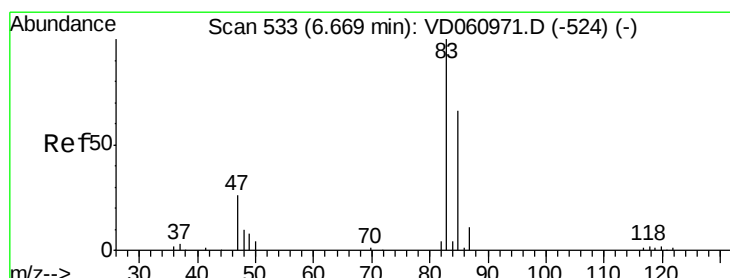
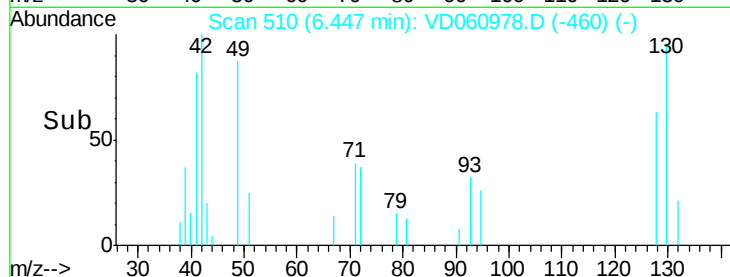
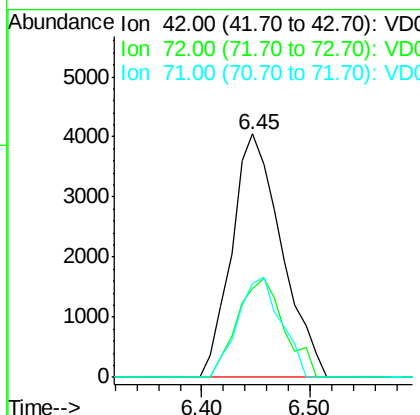
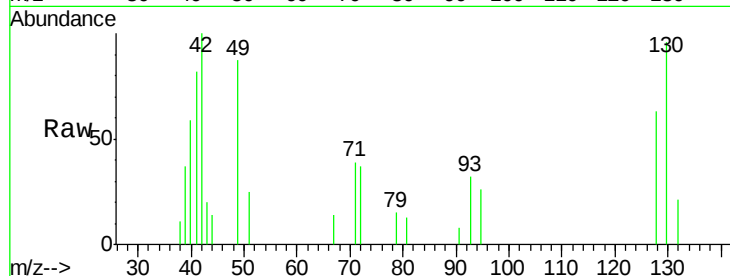
#29
Tetrahydrofuran
Concen: 12.796 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

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

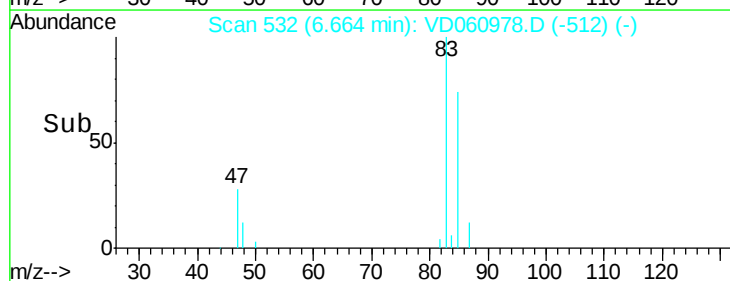
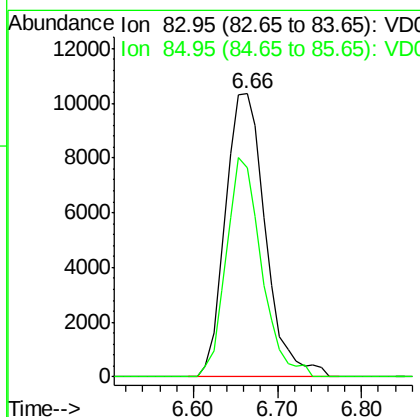
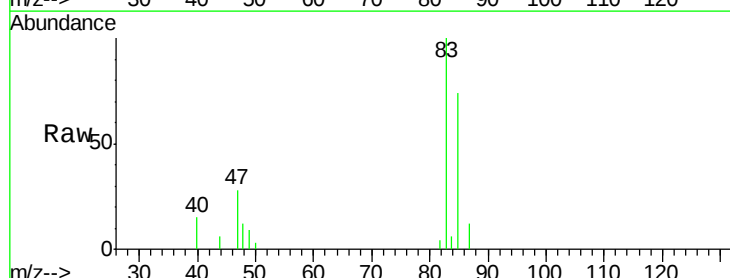
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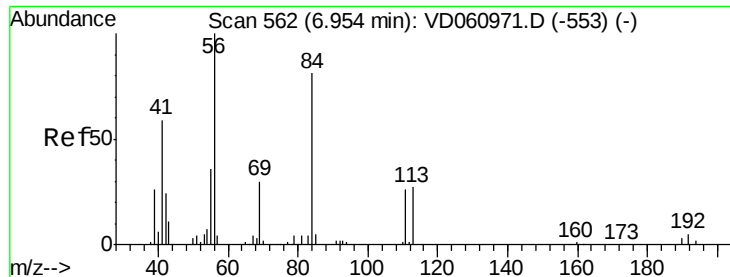
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#30
Chloroform
Concen: 2.614 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion	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

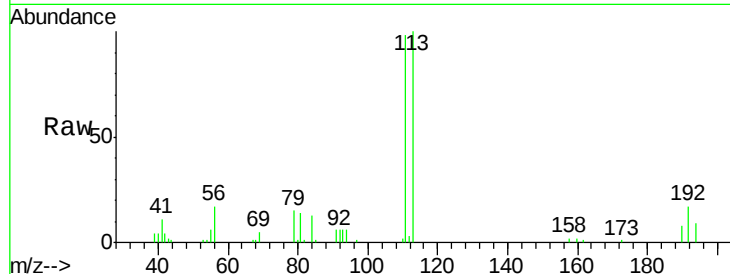
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2019

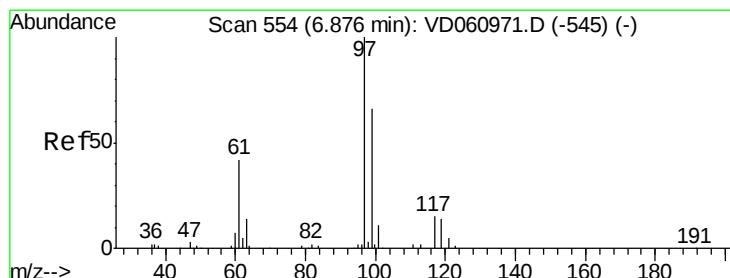
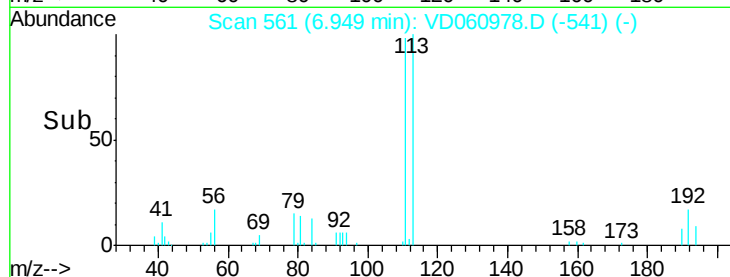
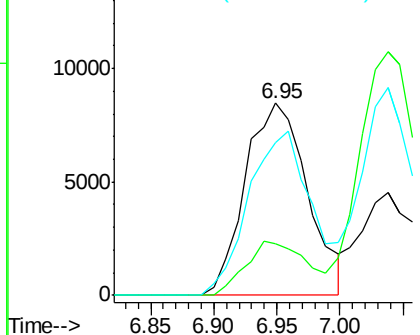
Tot Ion:	56	Resp:	29080
Ion Ratio	Lower	Upper	
56	100		
69	26.7	24.0	36.0
84	79.1	65.8	98.6

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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

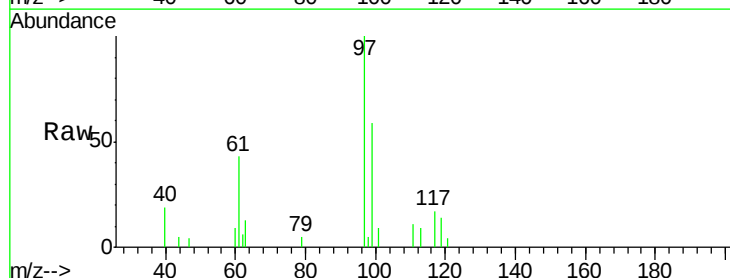
RT: 6.86 min Scan# 552

Delta R.T. -0.02 min

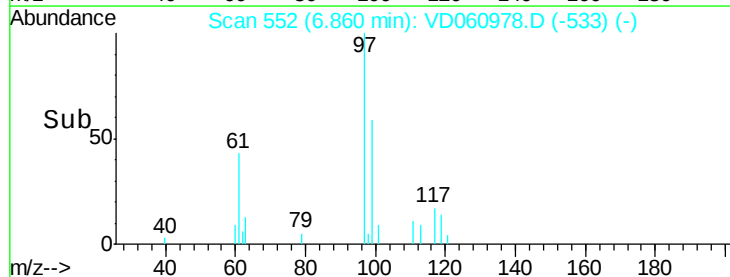
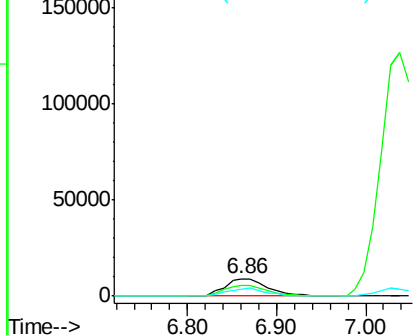
Lab File: VD060978.D

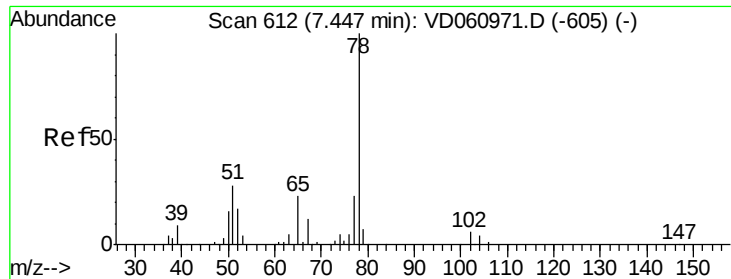
Acq: 8 Mar 2019 12:34

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

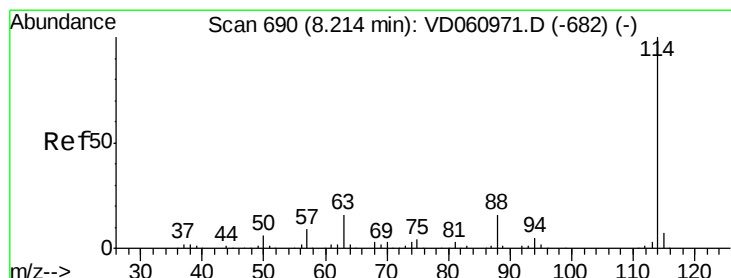
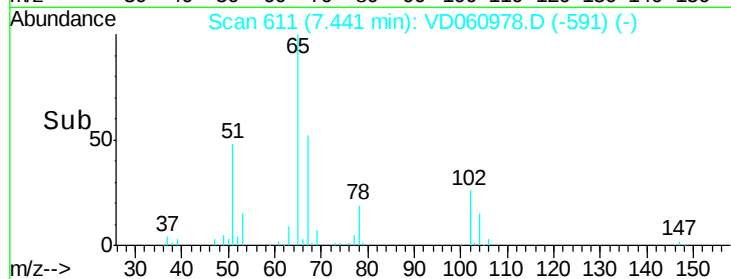
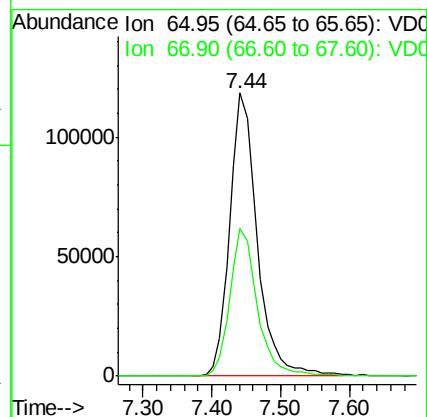
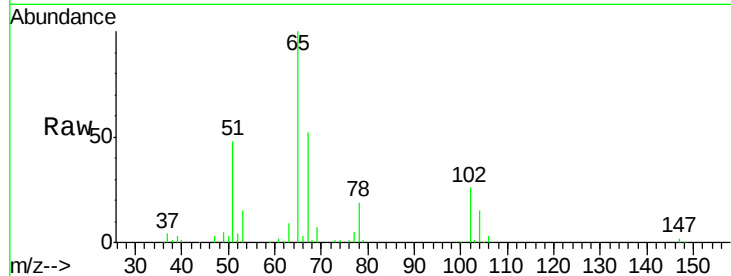
67 52.2 0.0 105.2

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#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

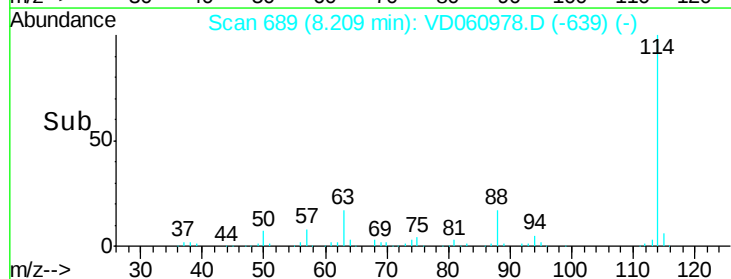
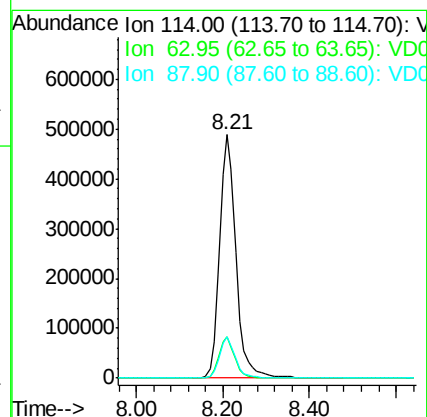
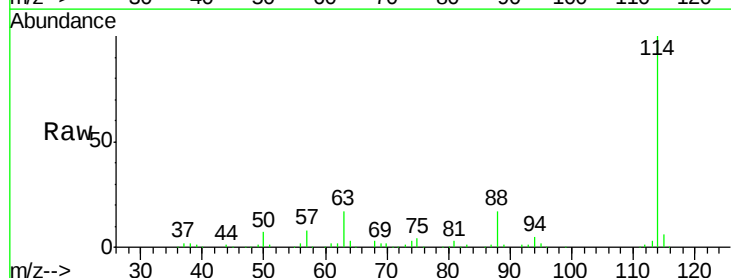
Tgt Ion: 114 Resp: 1276616

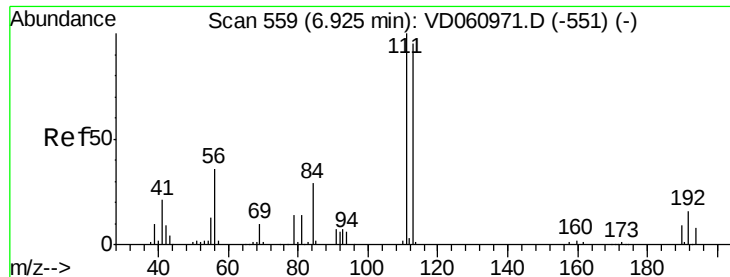
Ion Ratio Lower Upper

114 100

63 17.2 0.0 31.4

88 17.1 0.0 33.0





#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

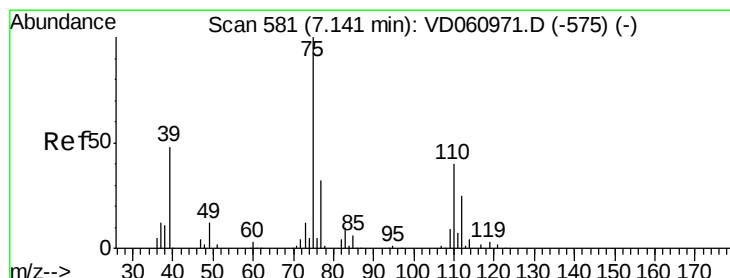
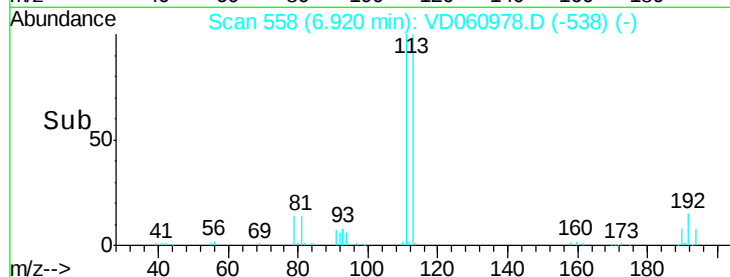
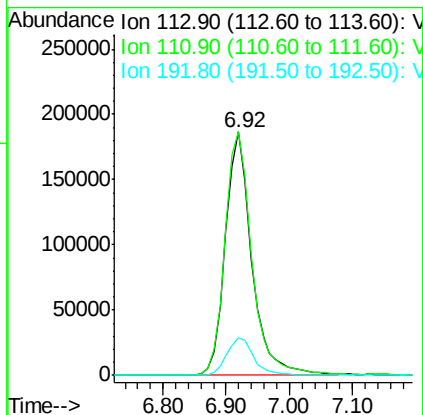
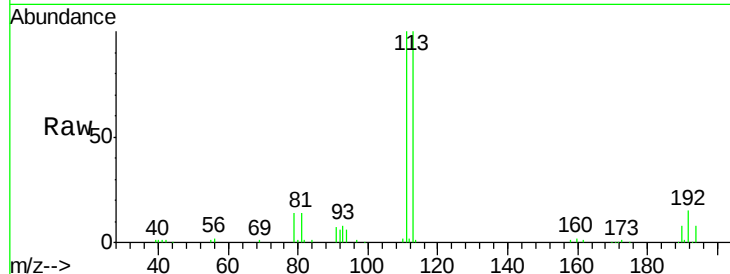
ClientSampleId :

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

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#36

1,1-Dichloropropene

Concen: 2.562 ug/l

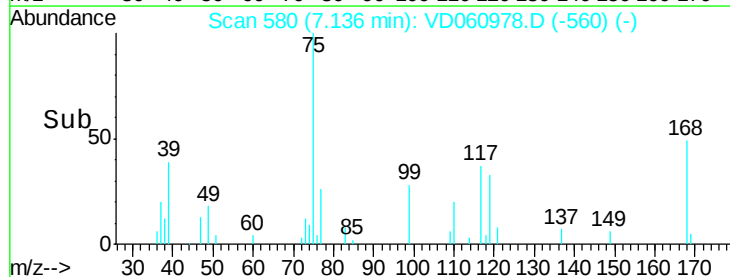
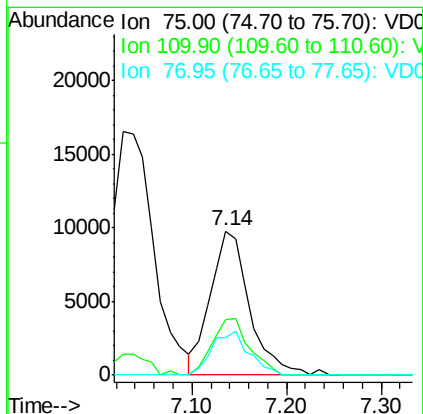
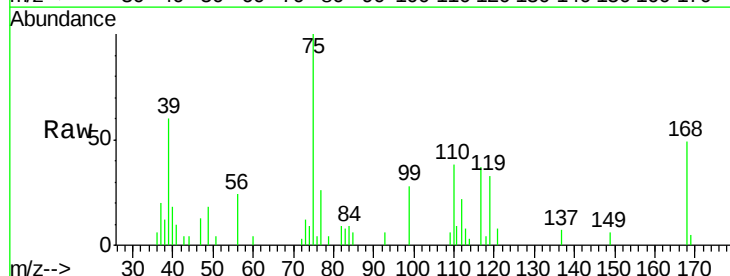
RT: 7.14 min Scan# 580

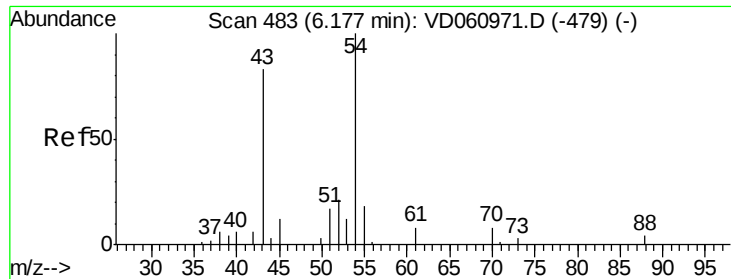
Delta R.T. -0.01 min

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





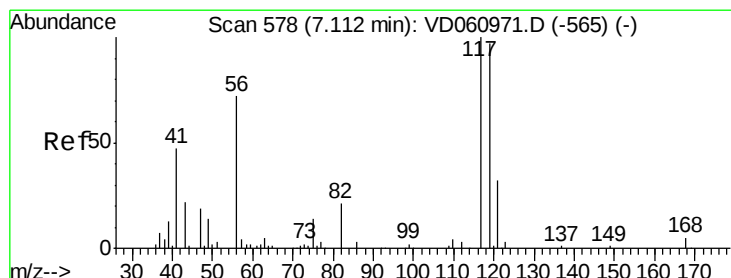
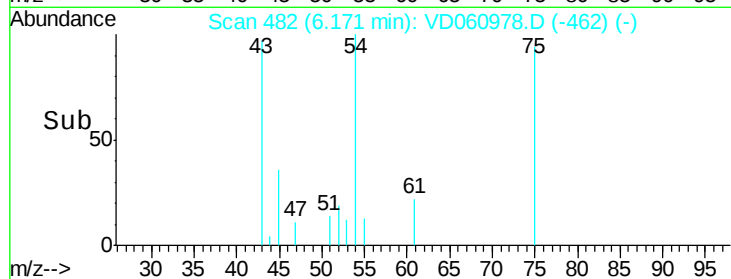
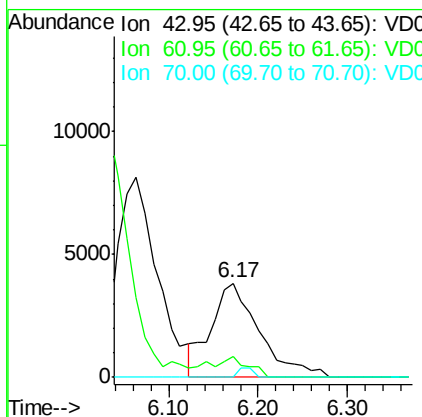
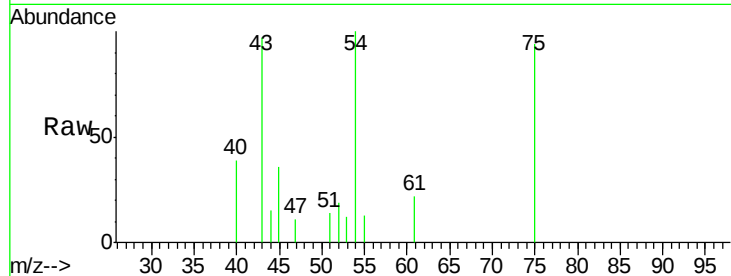
#37
Ethyl Acetate
Concen: 2.802 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.5	13.7	20.5#
70	0.0	7.1	10.7#

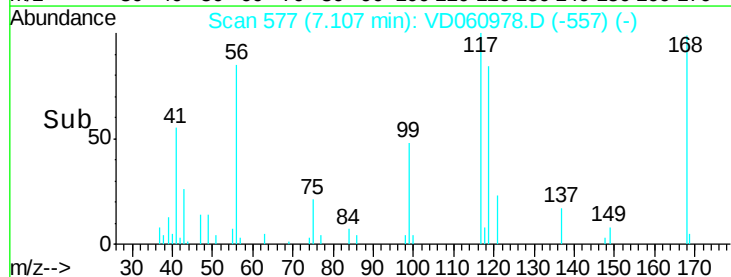
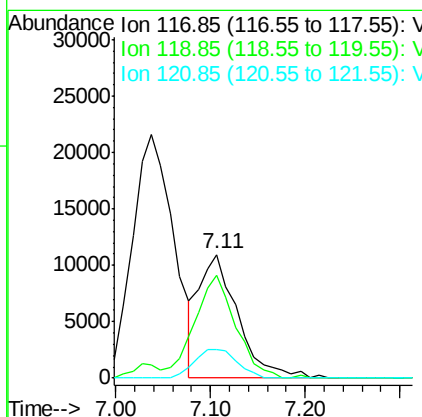
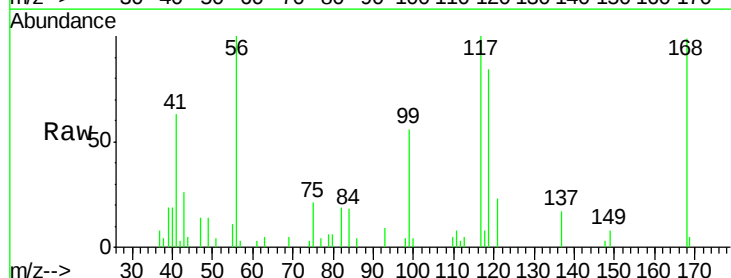
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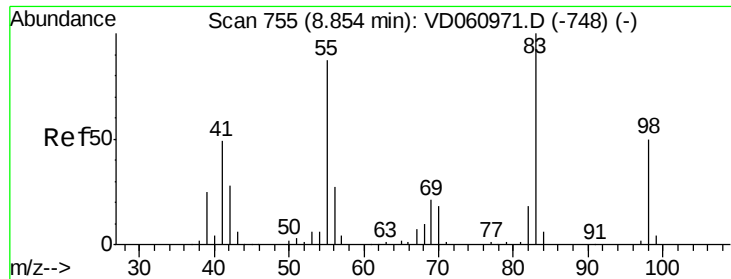
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#38
Carbon Tetrachloride
Concen: 2.568 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	83.6	77.8	116.8
121	22.7	25.3	37.9#





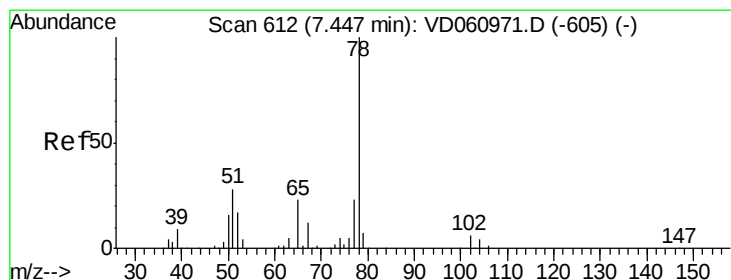
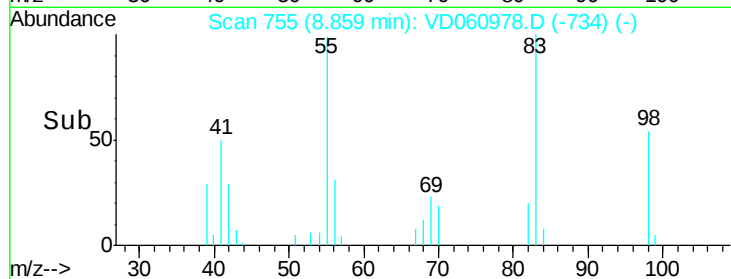
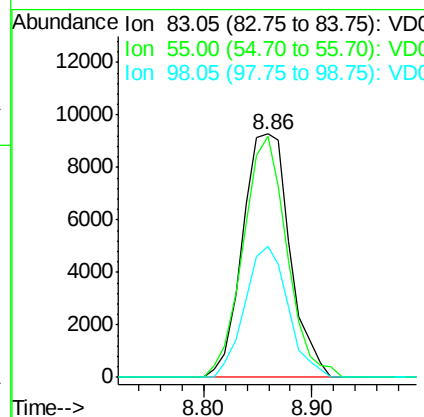
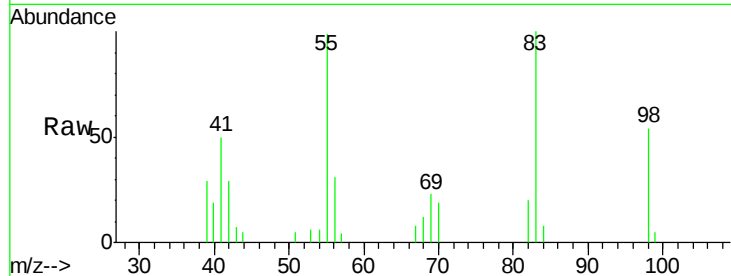
#39
Methvlcvclohexane
Concen: 2.476 ug/l
RT: 8.86 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

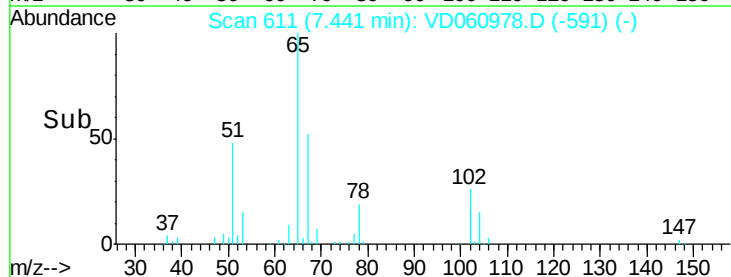
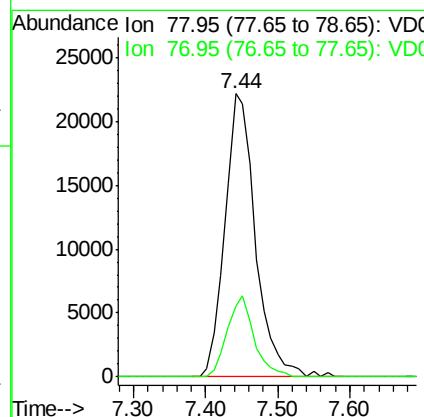
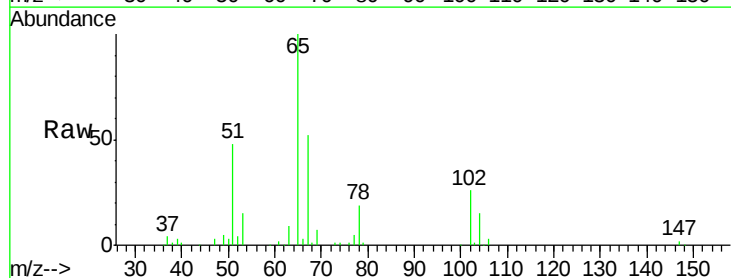
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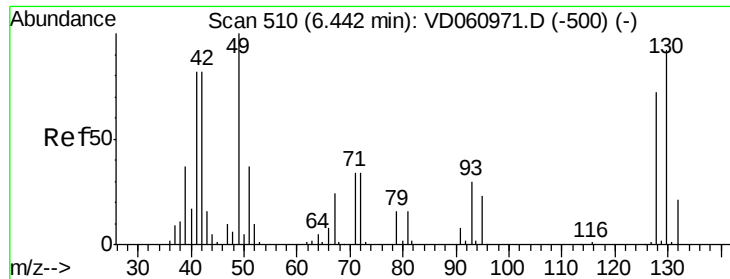
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#40
Benzene
Concen: 2.359 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

Tgt Ion	78	Resp	64856
Ion Ratio	Lower	Upper	
78	100		
77	24.8	18.8	28.2





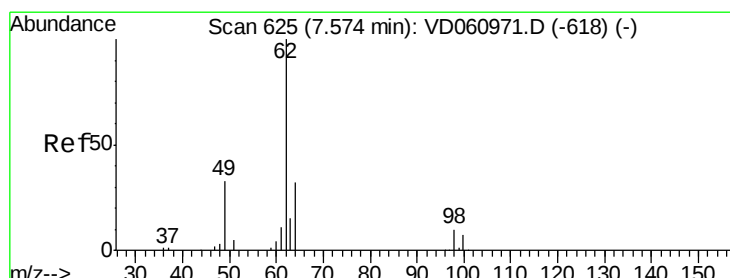
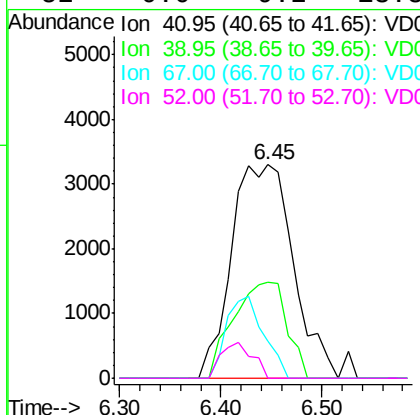
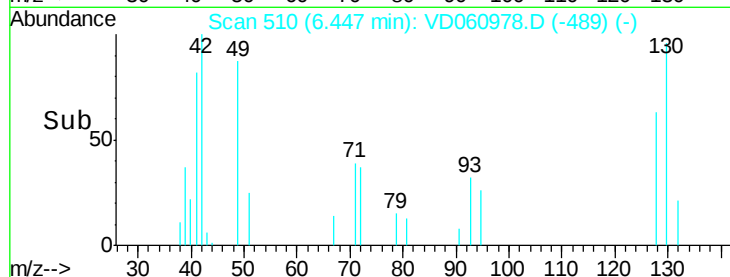
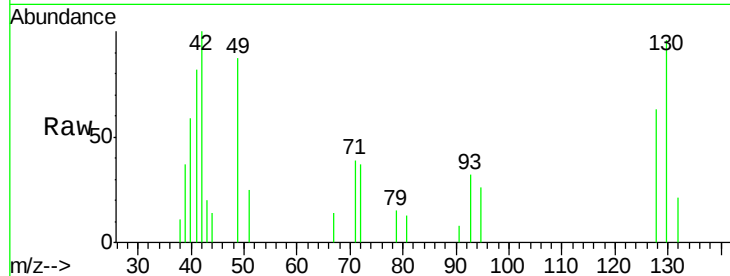
#41
Methacrylonitrile
Concen: 2.357 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion	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

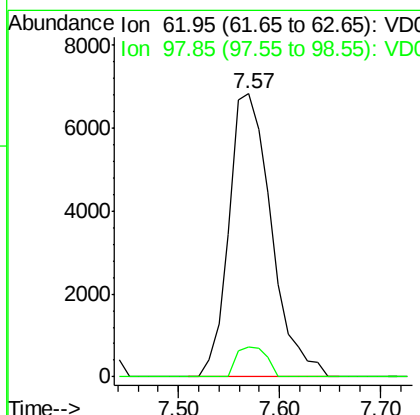
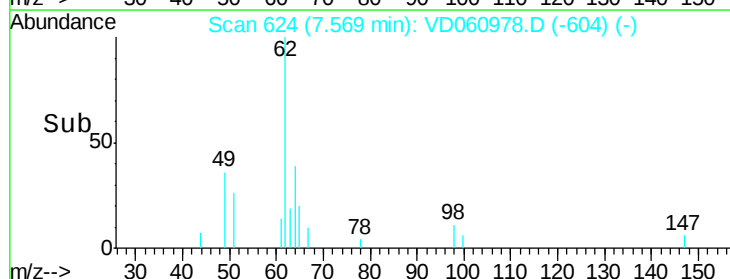
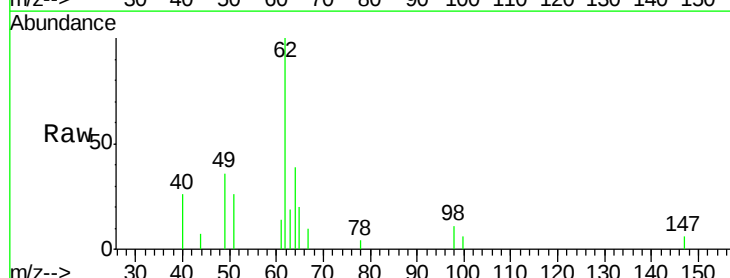
Manual Integrations
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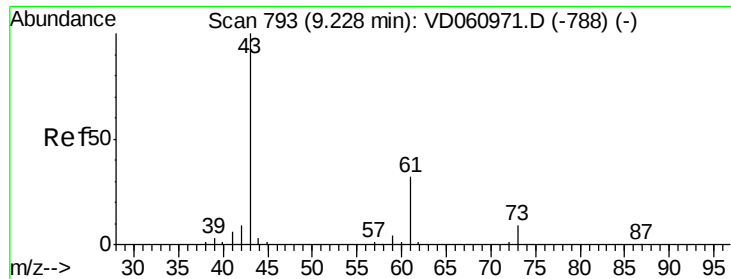
MMDadoda
3/11/2019 12:20:32 PM



#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	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

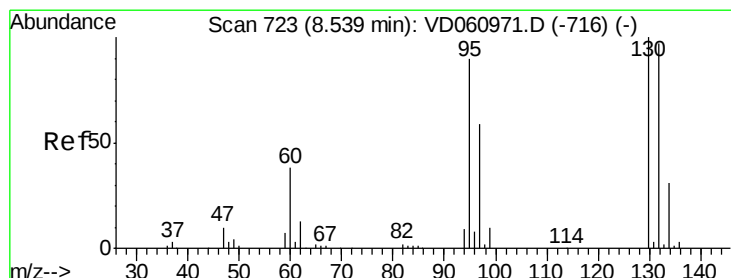
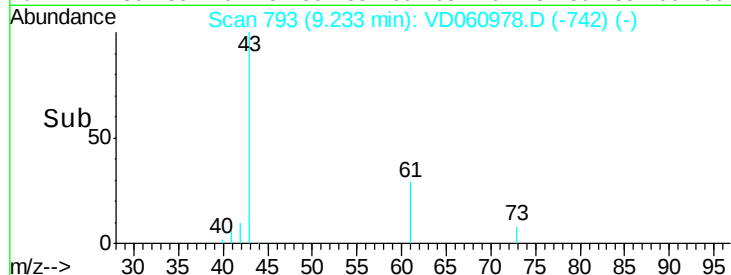
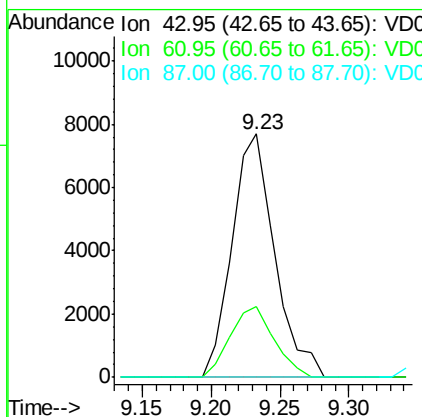
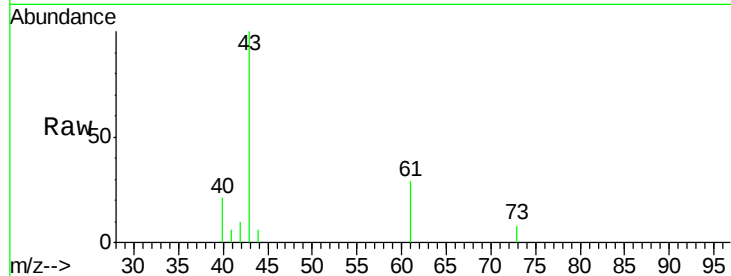
ClientSampleId :

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

Manual Integrations
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#44

Trichloroethene

Concen: 2.421 ug/l

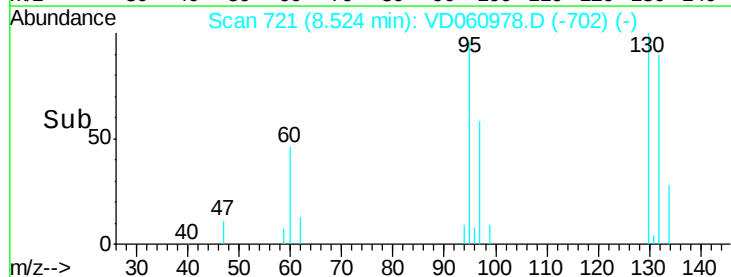
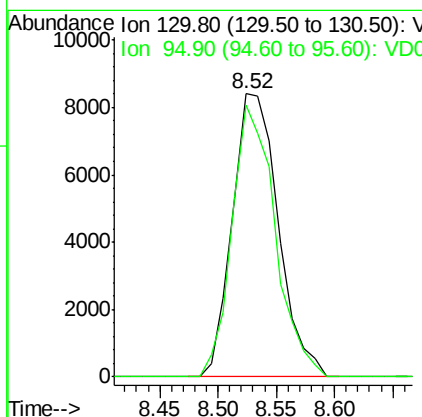
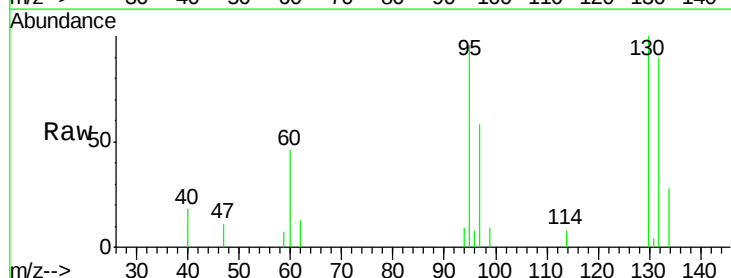
RT: 8.52 min Scan# 721

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





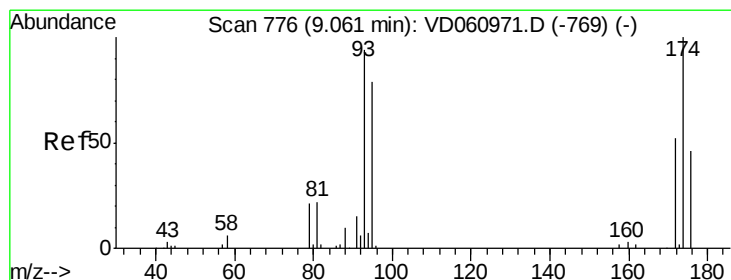
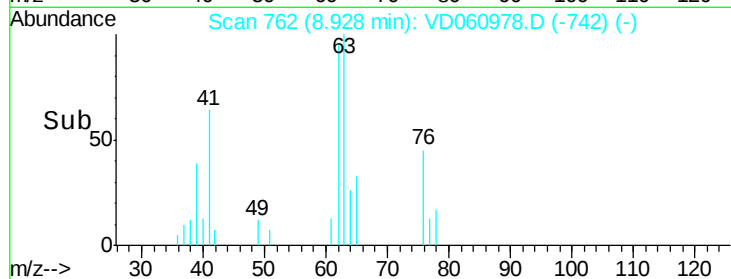
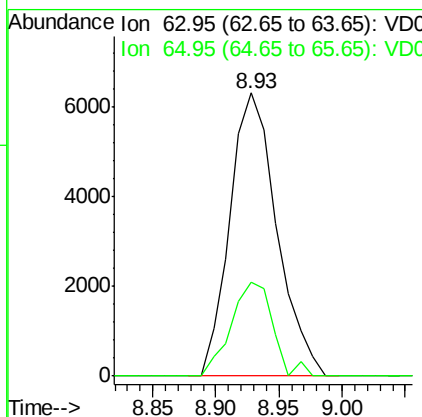
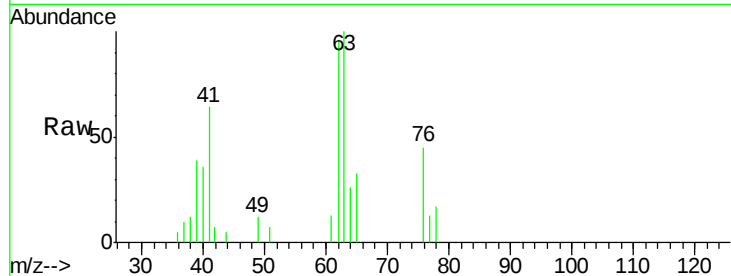
#45
 1,2-Dichloropropane
 Concen: 2.258 ug/l
 RT: 8.93 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

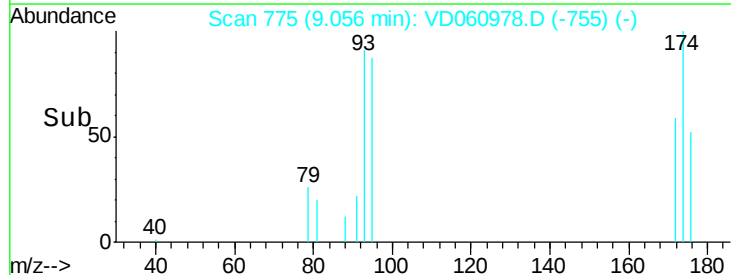
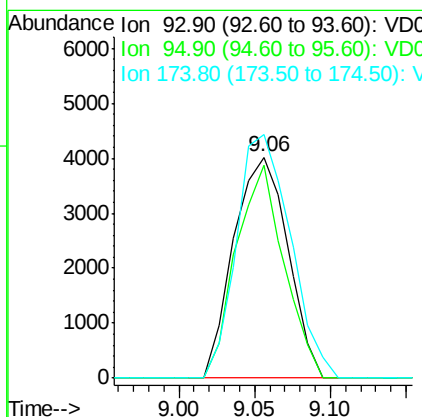
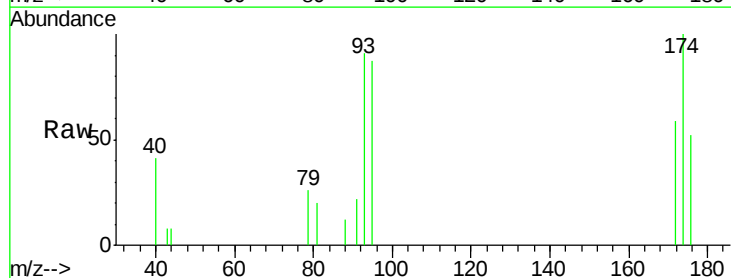
Manual Integrations
 APPROVED

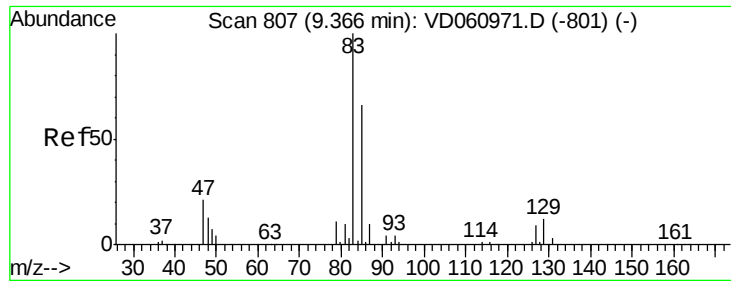
MMDadoda
 3/11/2019 12:20:32 PM



#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





#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

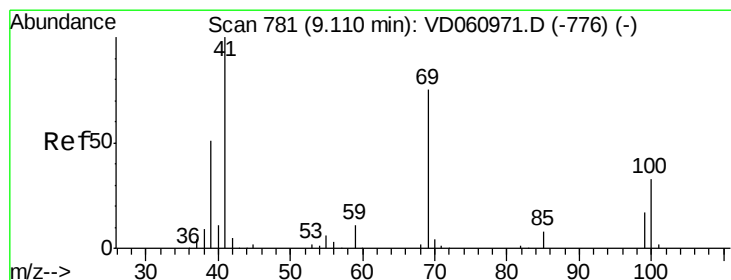
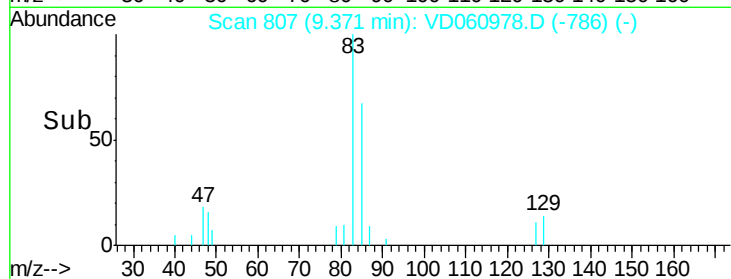
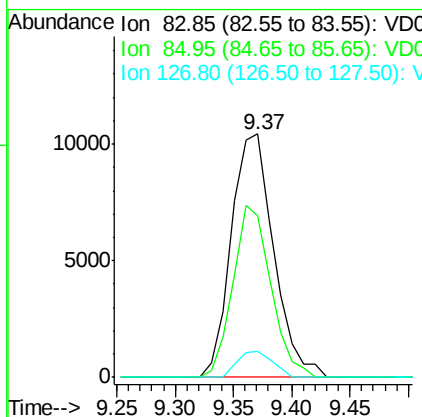
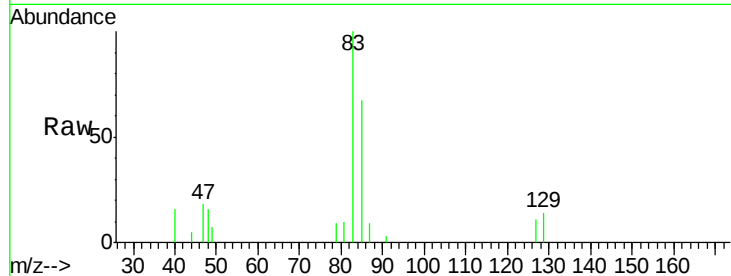
ClientSampleId :

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

Manual Integrations
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3/11/2019 12:20:32 PM



#48

Methyl methacrylate

Concen: 2.334 ug/l

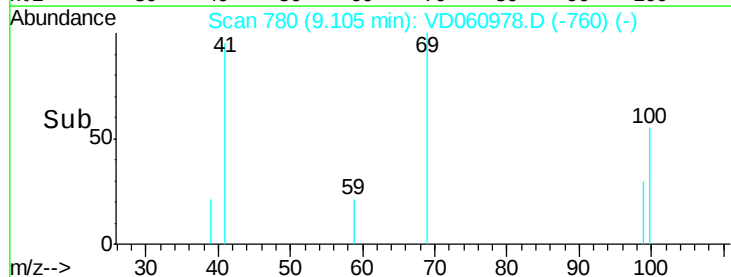
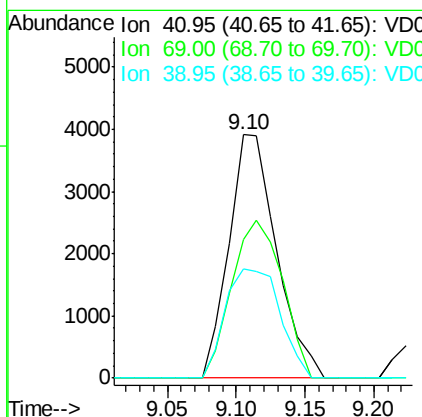
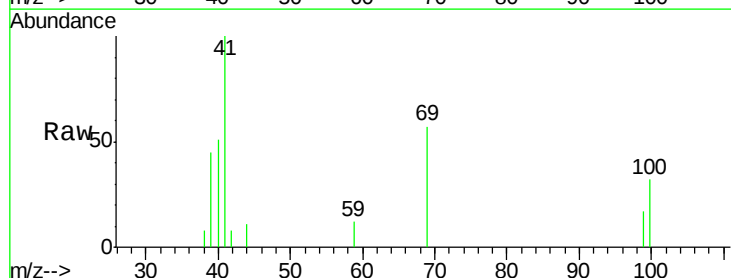
RT: 9.10 min Scan# 780

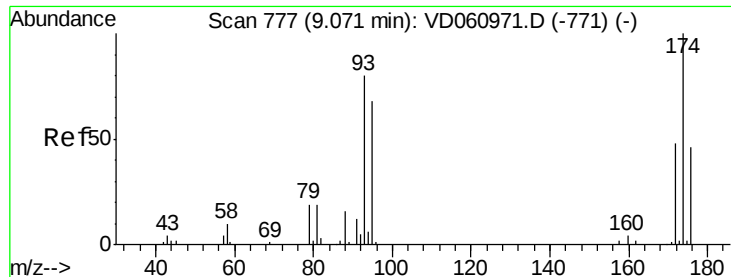
Delta R.T. -0.01 min

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





#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

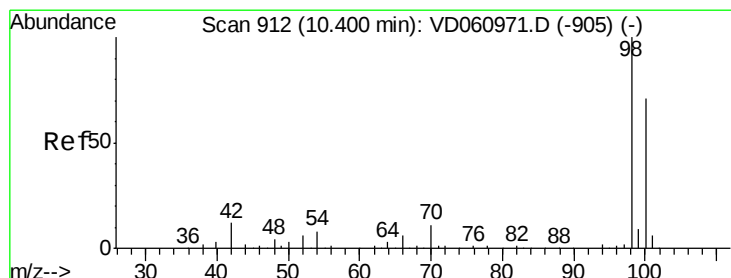
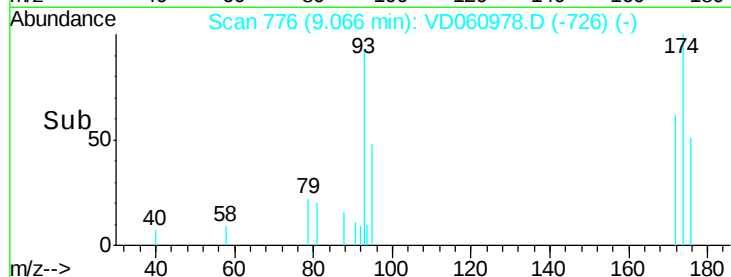
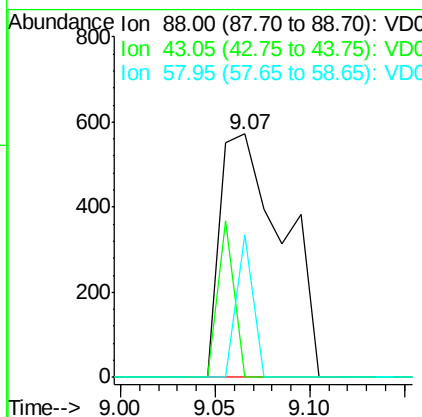
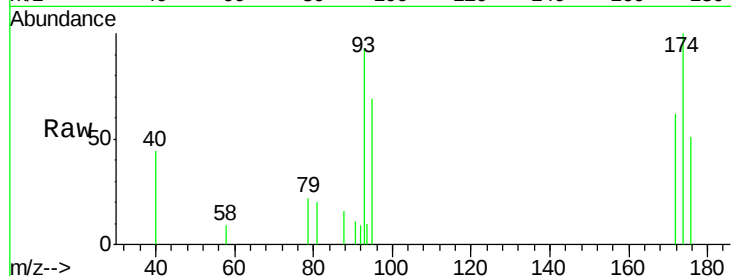
ClientSampleId :

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

Manual Integrations
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#50

Toluene-d8

Concen: 32.122 ug/l

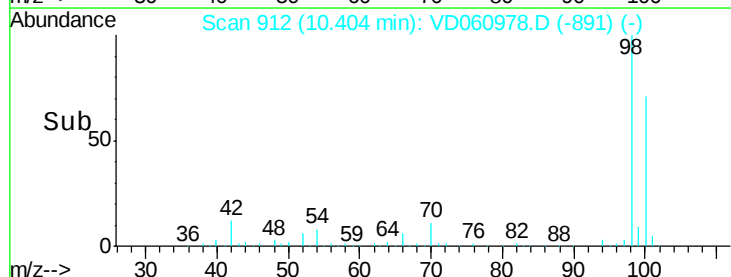
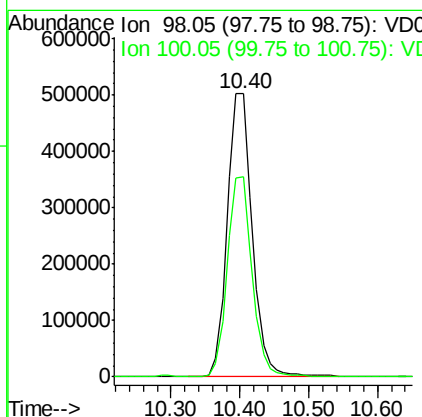
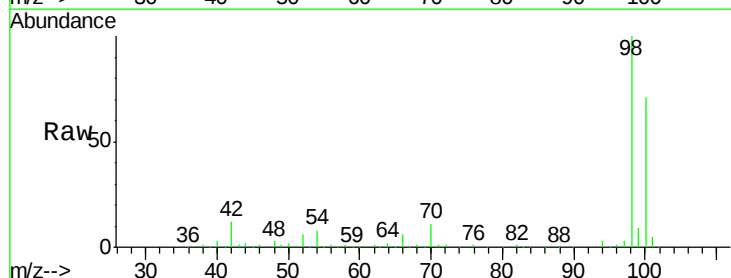
RT: 10.40 min Scan# 912

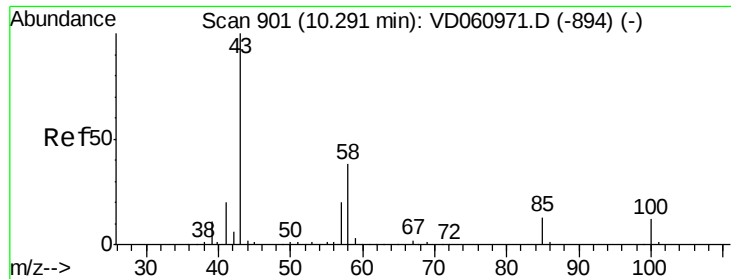
Delta R.T. 0.00 min

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





#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

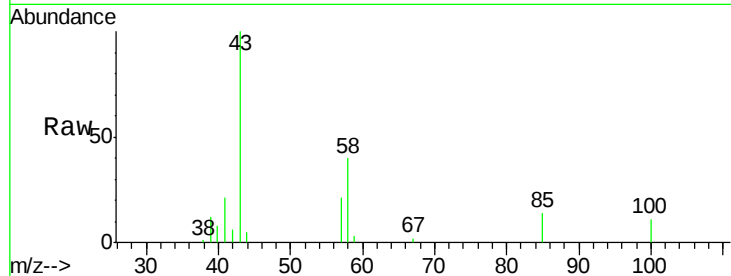
58 40.0 30.2 45.2

Manual Integrations

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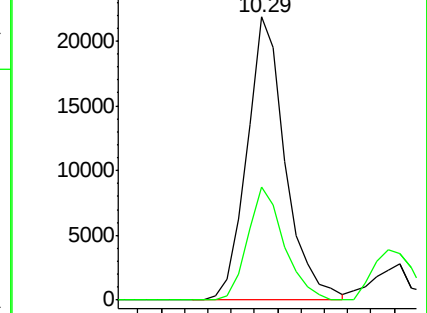
MMDadoda

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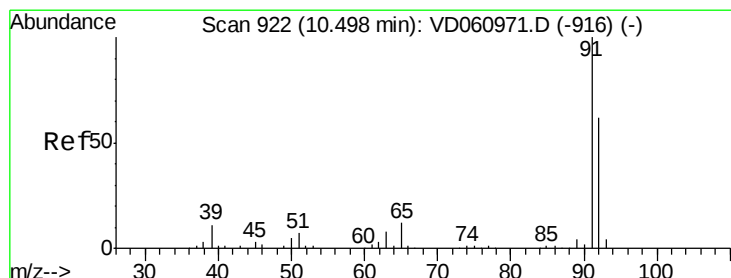
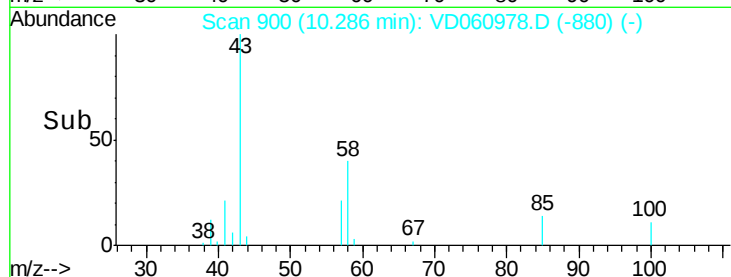


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#52

Toluene

Concen: 2.494 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.01 min

Lab File: VD060978.D

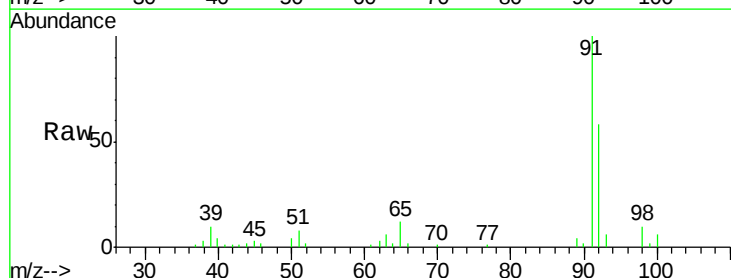
Acq: 8 Mar 2019 12:34

Tgt Ion: 92 Resp: 42646

Ion Ratio Lower Upper

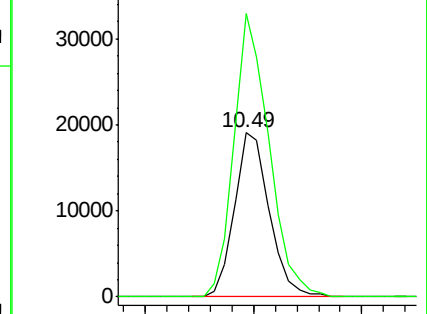
92 100

91 172.3 129.8 194.8

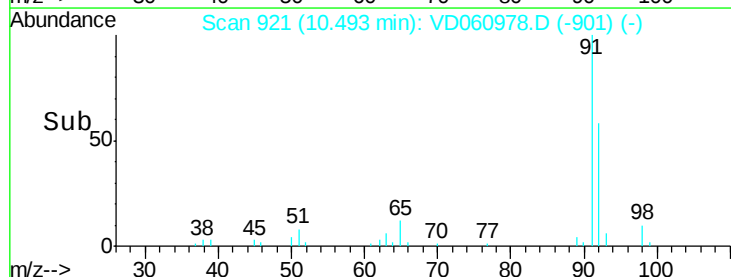


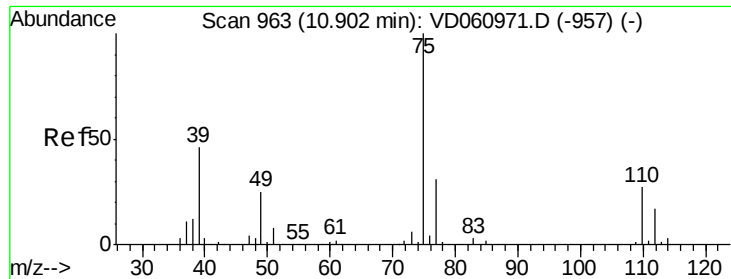
Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time-->





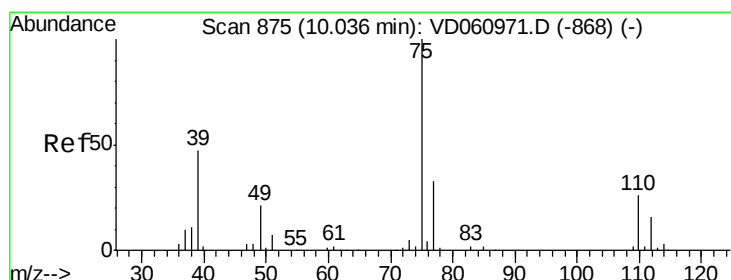
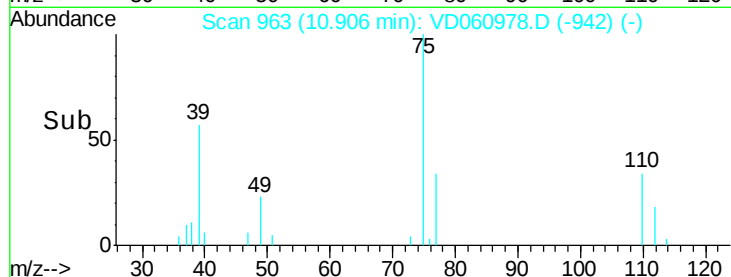
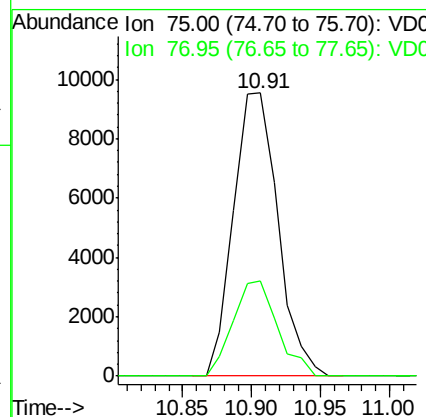
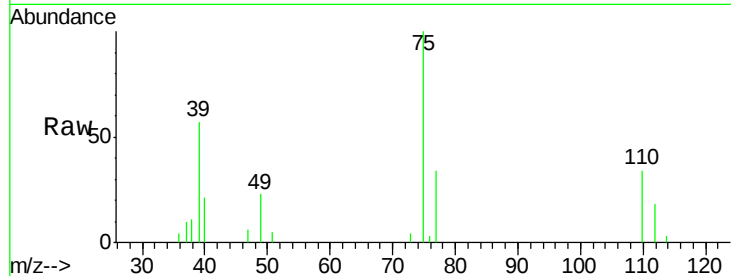
#53
t-1,3-Dichloropropene
Concen: 2.270 ug/l
RT: 10.91 min Scan# 963
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

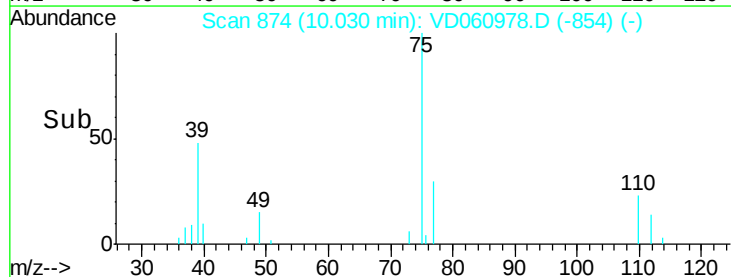
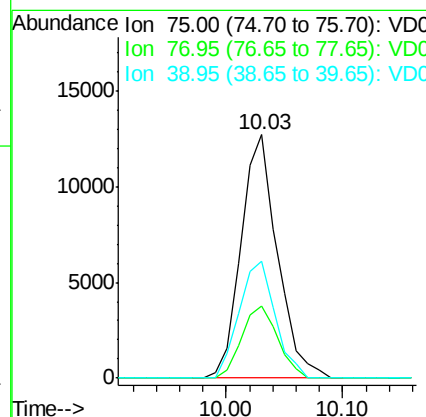
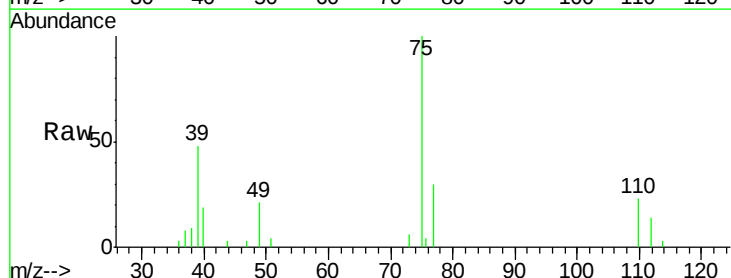
Manual Integrations
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#54
cis-1,3-Dichloropropene
Concen: 2.417 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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





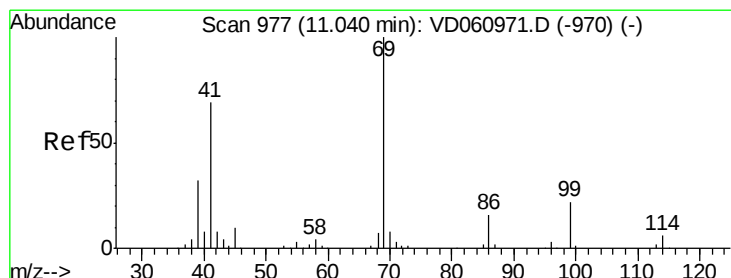
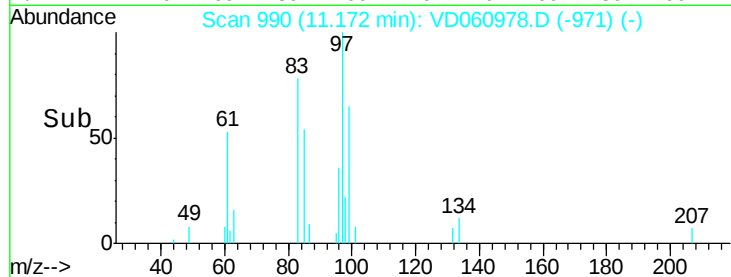
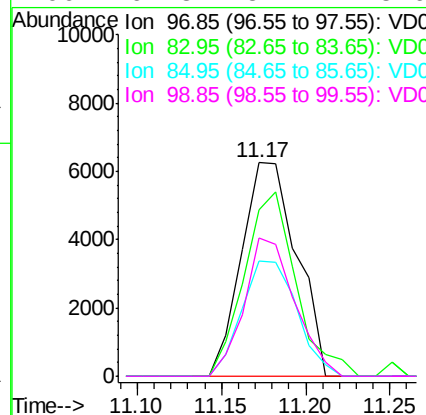
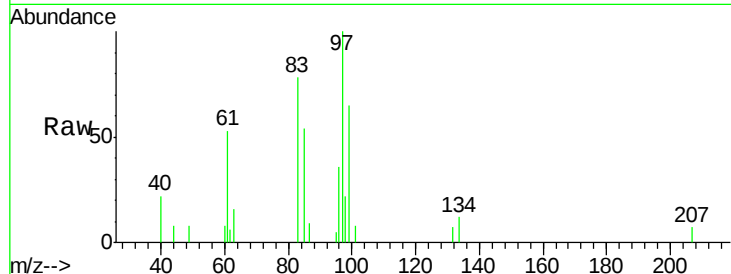
#55
 1,1,2-Trichloroethane
 Concen: 2.494 ug/l
 RT: 11.17 min Scan# 990
 Delta R.T. -0.02 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

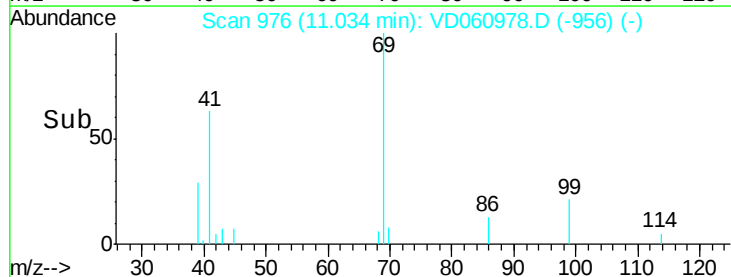
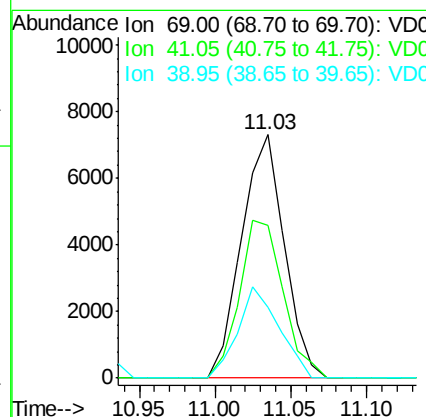
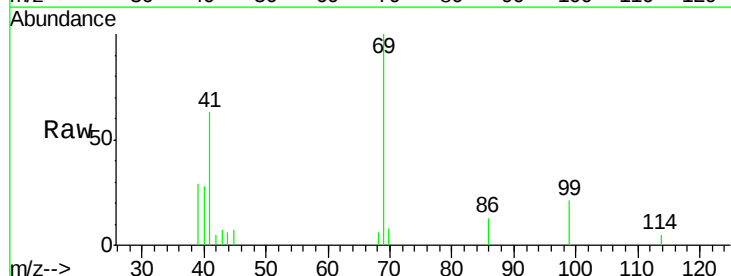
Manual Integrations
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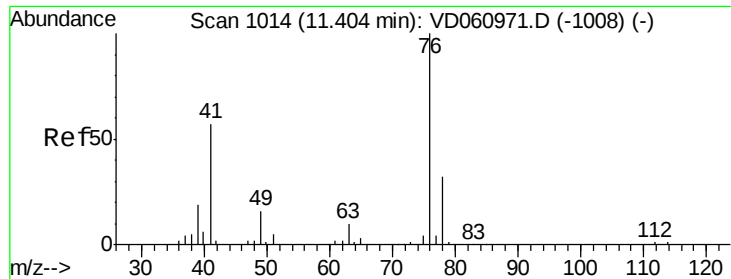
MMDadoda
 3/11/2019 12:20:32 PM



#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





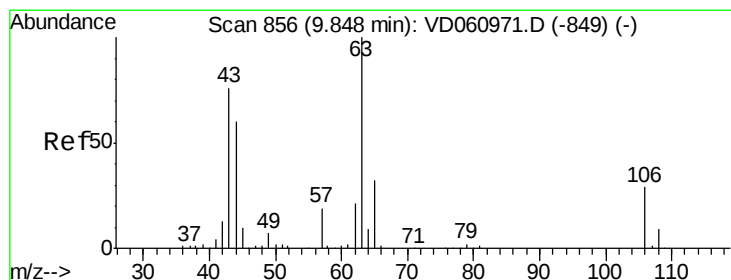
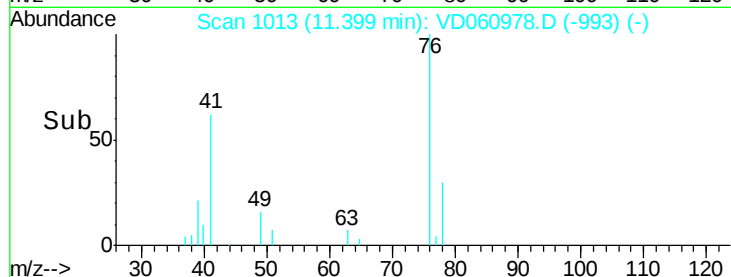
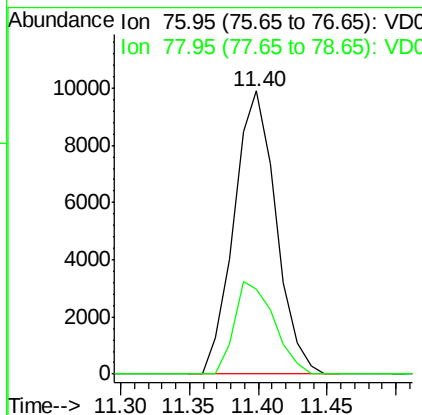
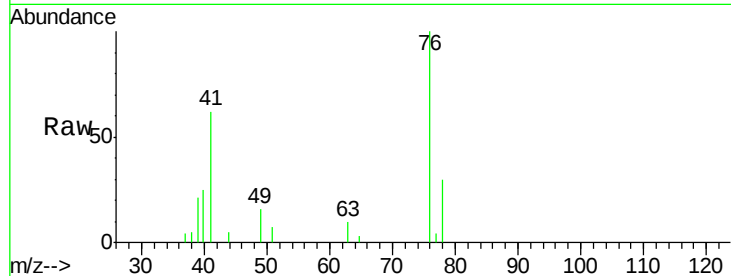
#57
 1,3-Dichloropropane
 Concen: 2.469 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

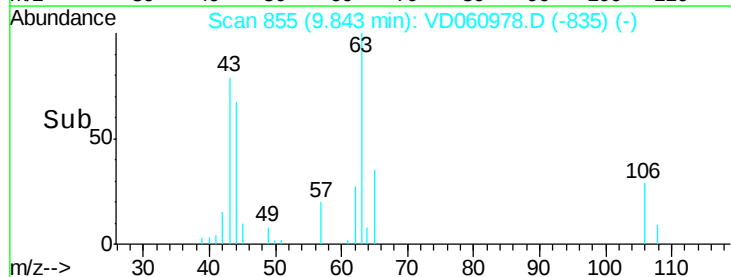
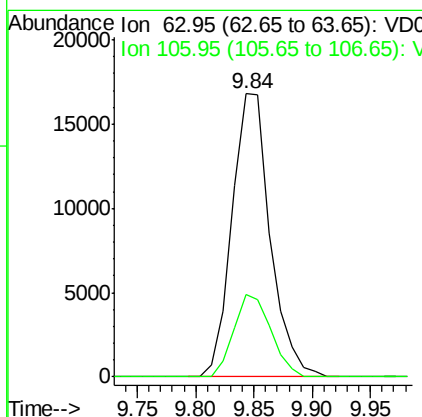
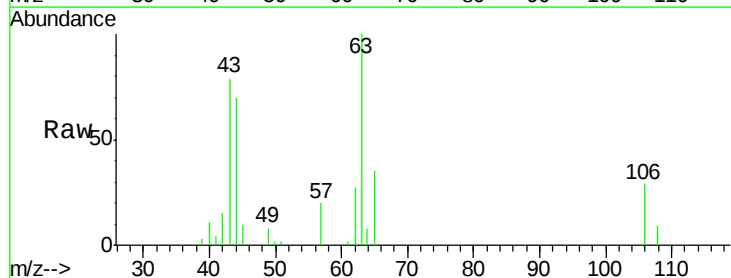
Manual Integrations
 APPROVED

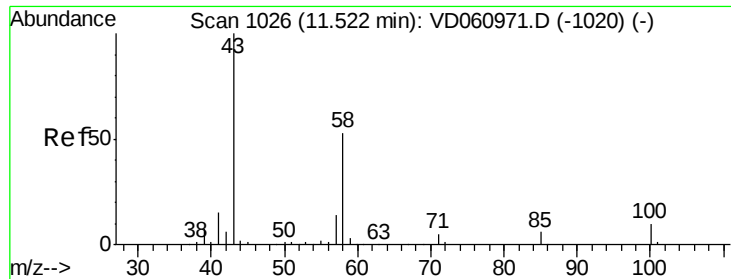
MMDadoda
 3/11/2019 12:20:32 PM



#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





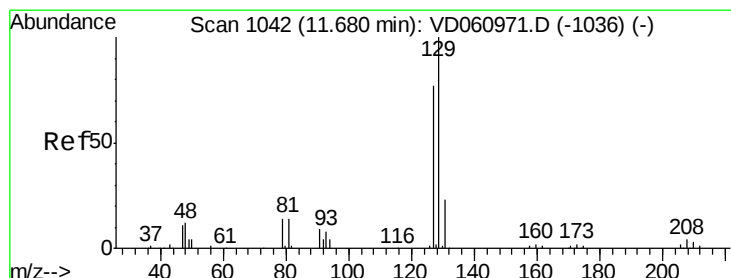
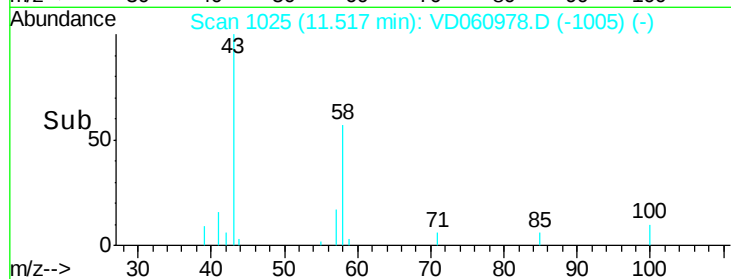
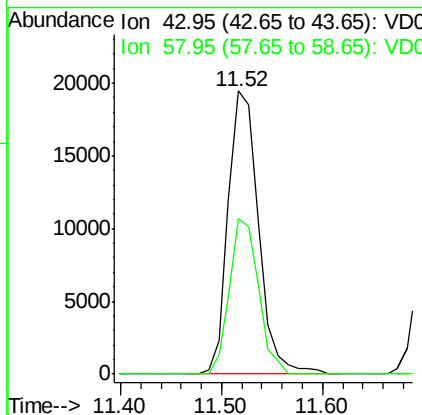
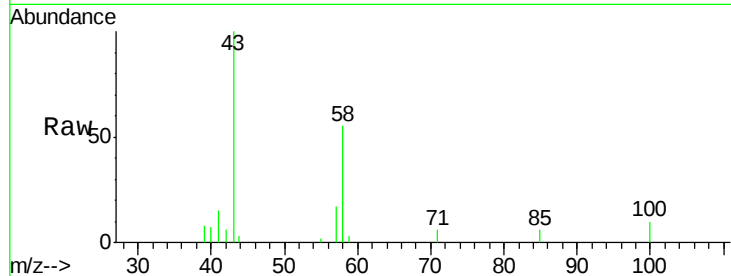
#59
2-Hexanone
Concen: 12.701 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

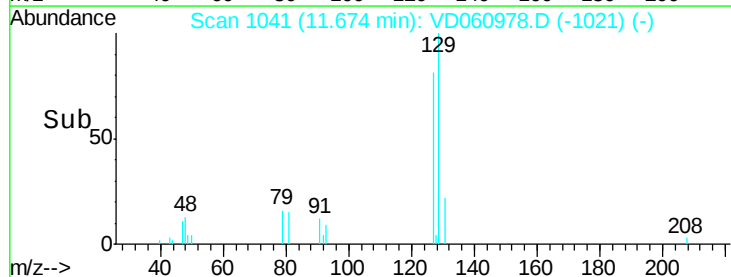
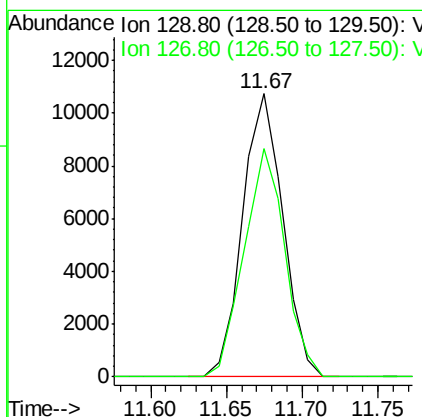
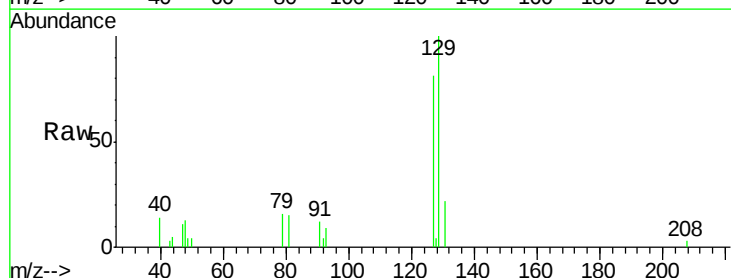
Manual Integrations
APPROVED

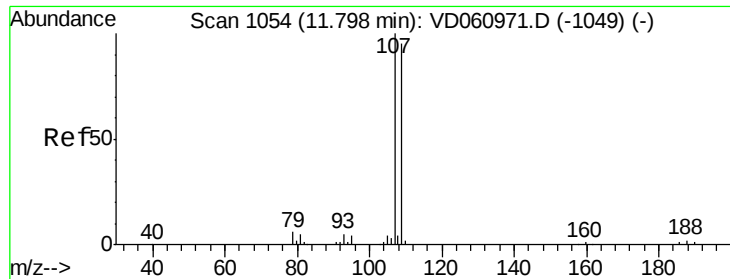
MMDadoda
3/11/2019 12:20:32 PM



#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





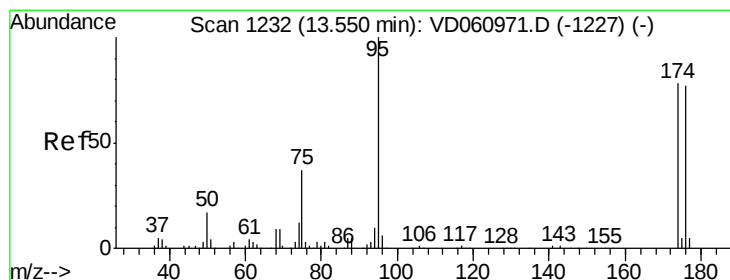
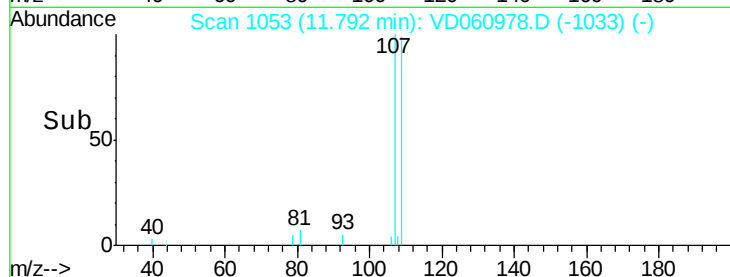
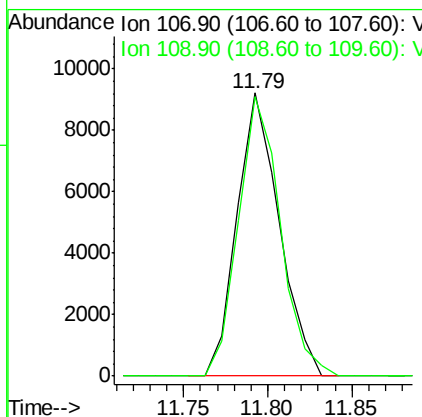
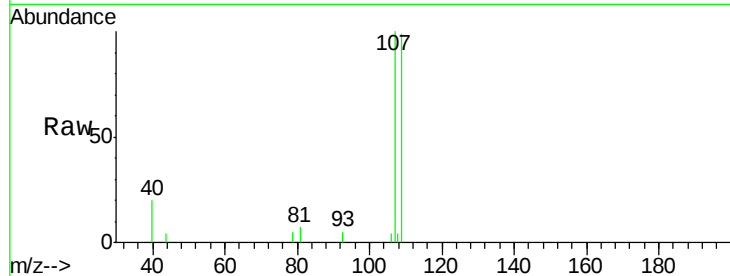
#61
1,2-Dibromoethane
Concen: 2.417 ug/l
RT: 11.79 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

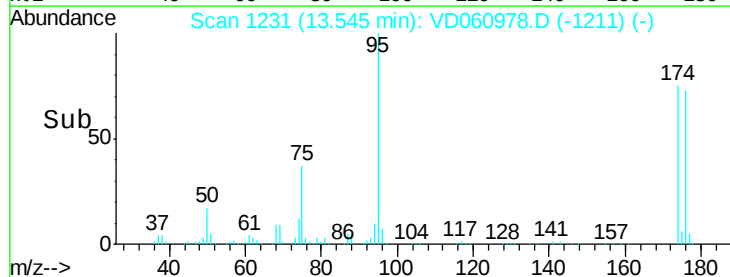
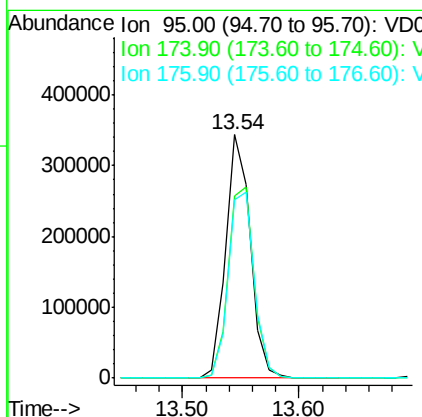
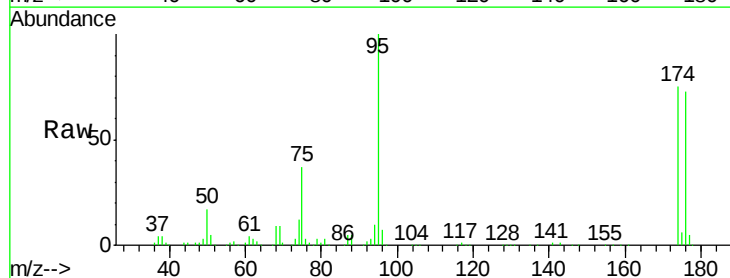
Manual Integrations
APPROVED

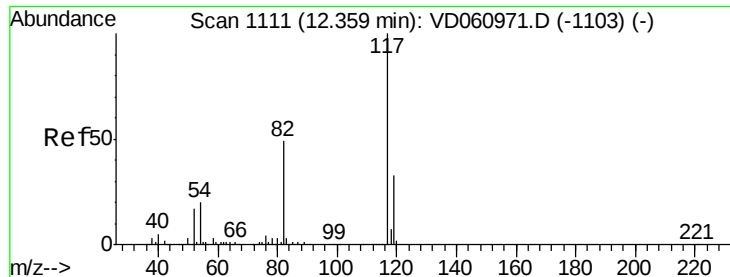
MMDadoda
3/11/2019 12:20:32 PM



#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





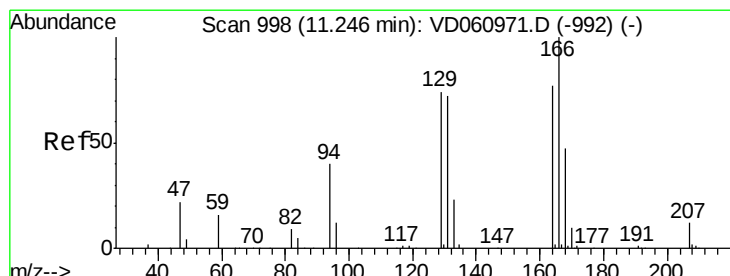
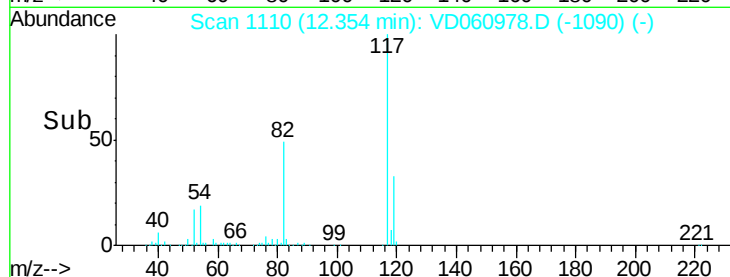
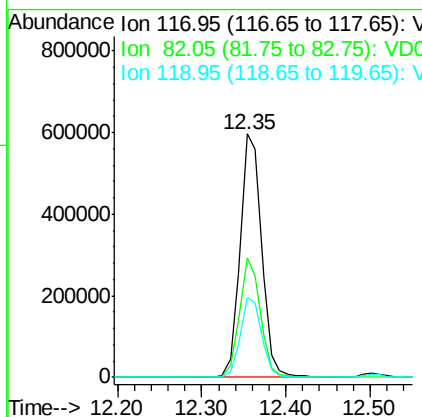
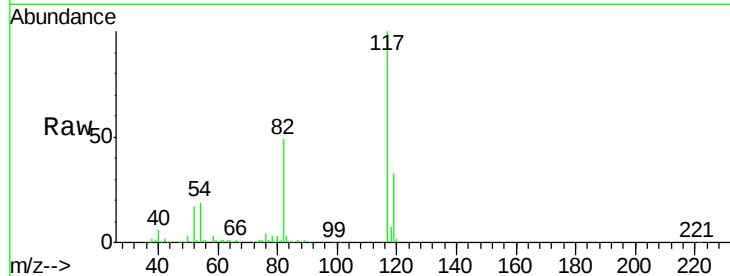
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

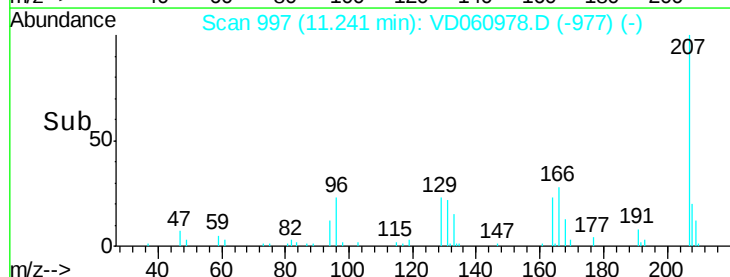
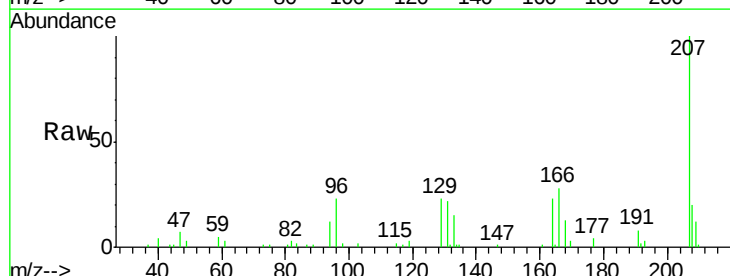
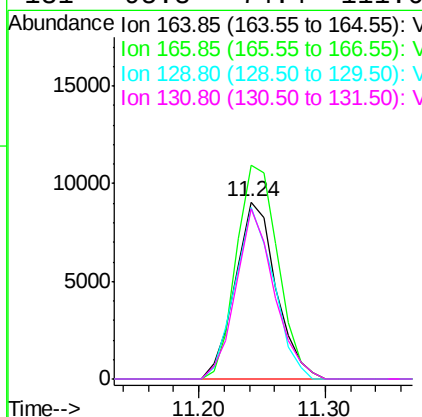
Manual Integrations
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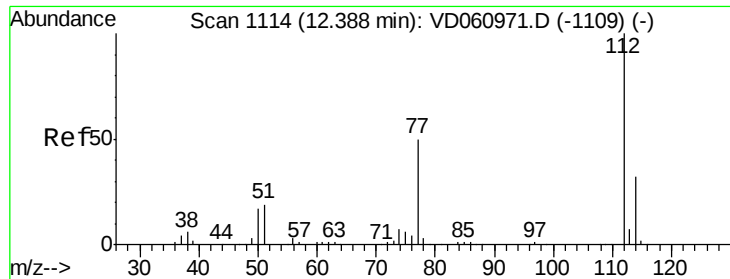
MMDadoda
3/11/2019 12:20:32 PM



#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





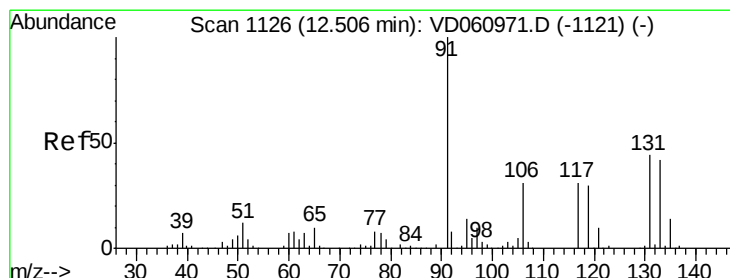
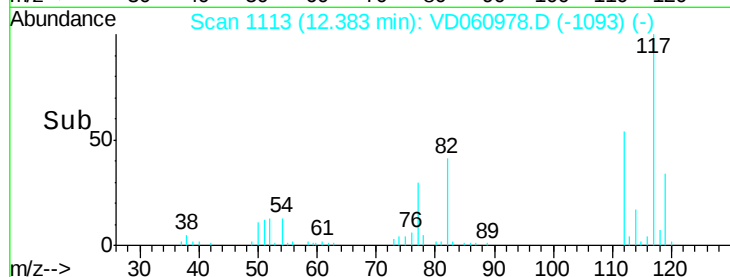
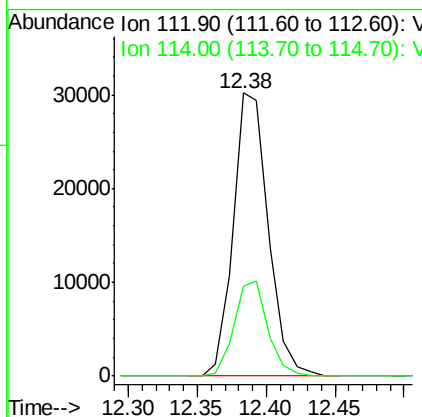
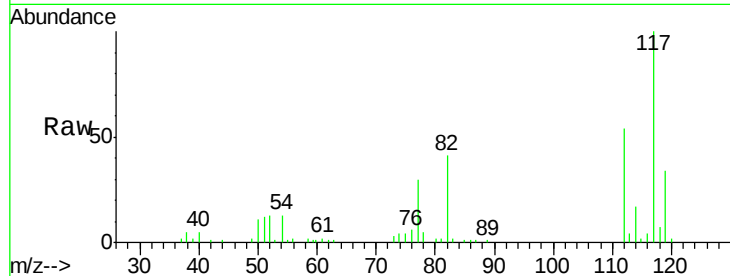
#65
Chlorobenzene
Concen: 2.571 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

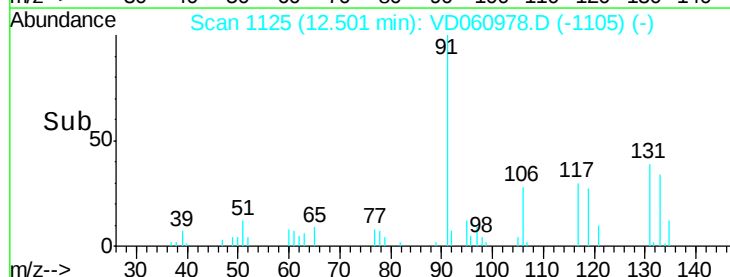
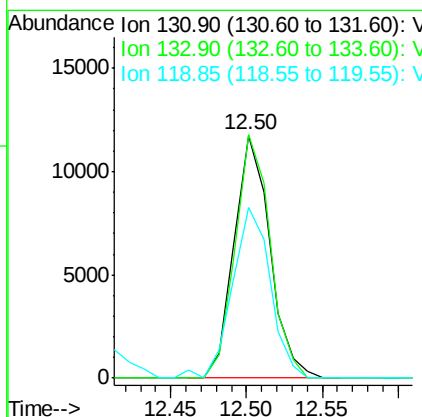
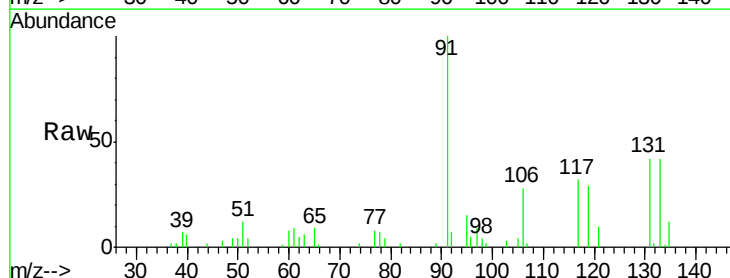
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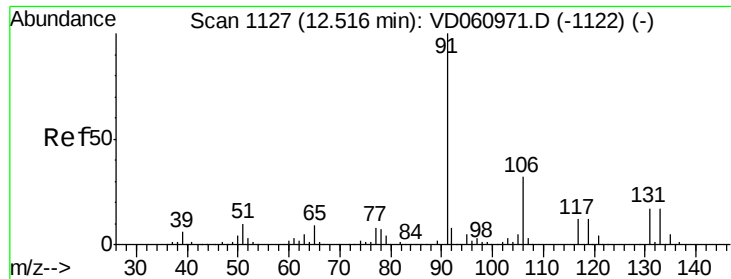
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.607 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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





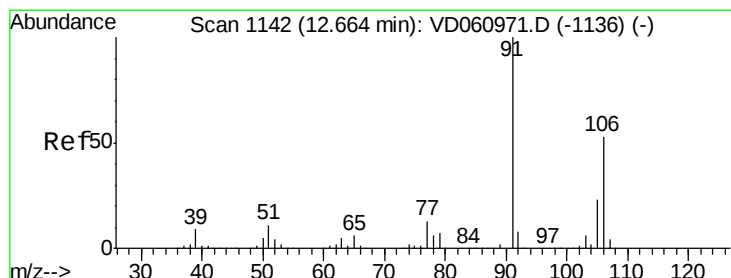
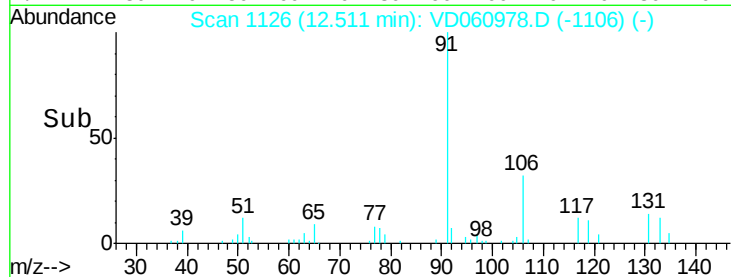
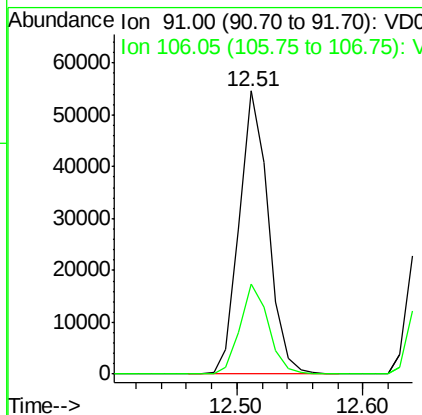
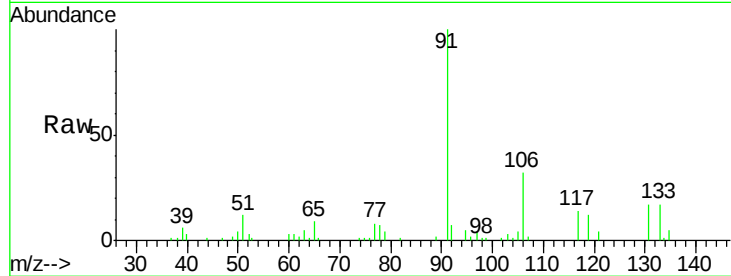
#67
Ethyl Benzene
Concen: 2.808 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

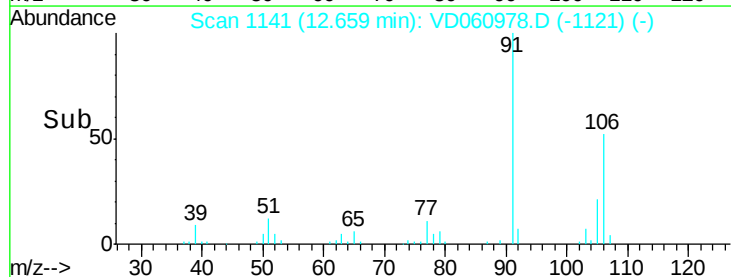
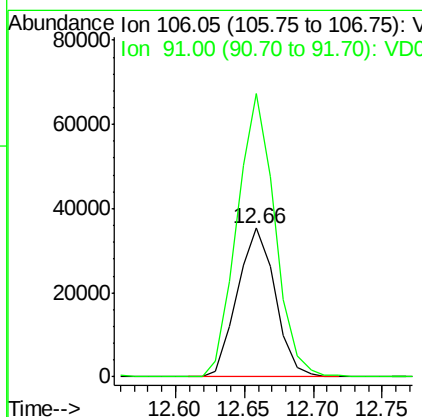
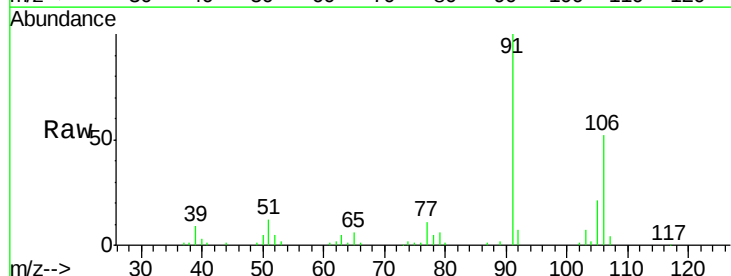
Manual Integrations
APPROVED

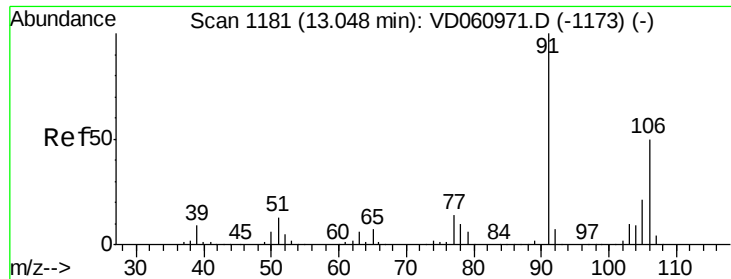
MMDadoda
3/11/2019 12:20:32 PM



#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





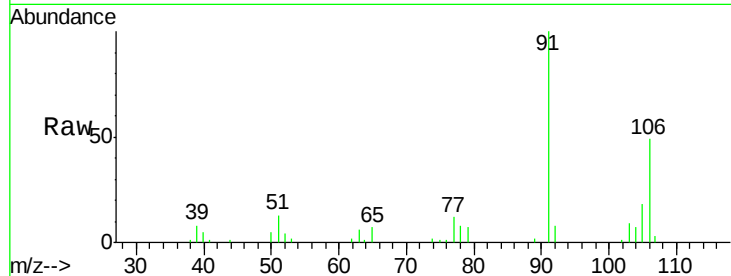
#69
o-Xylene
Concen: 2.538 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

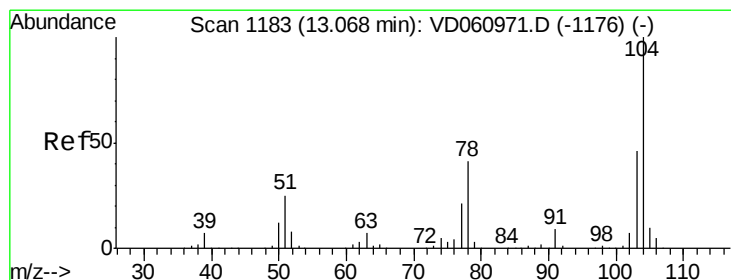
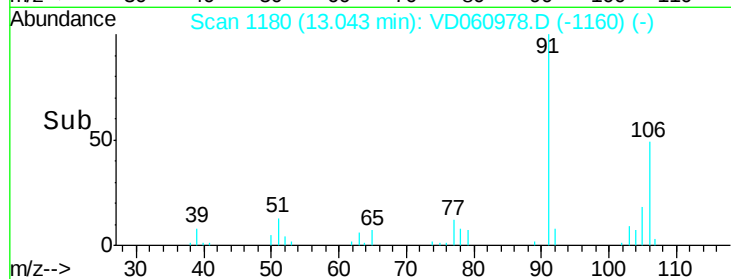
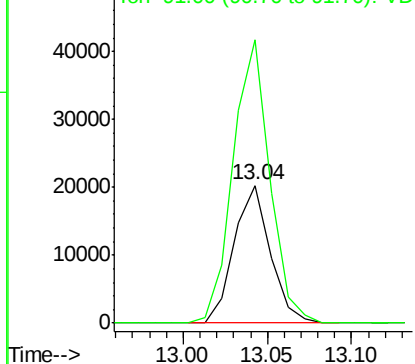
Tot Ion:106 Resp: 30274
Ion Ratio Lower Upper
106 100
91 205.5 99.8 299.3

Manual Integrations
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3/11/2019 12:20:32 PM

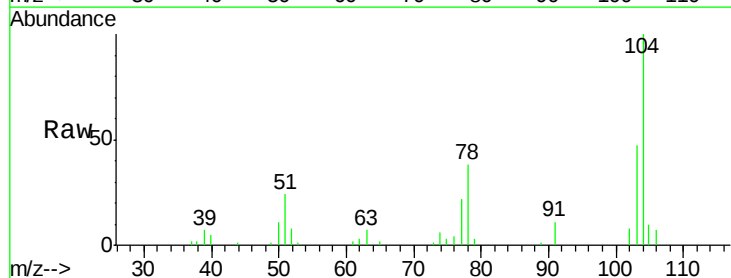


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

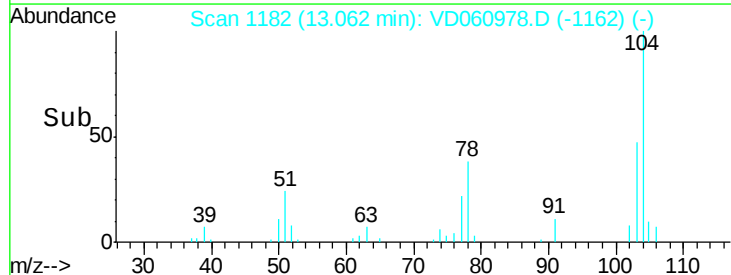
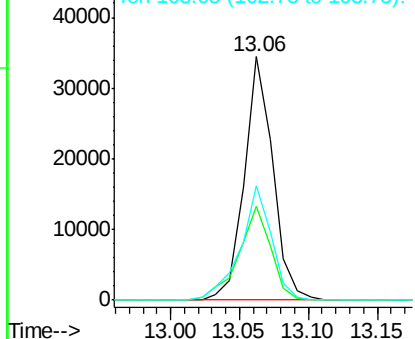


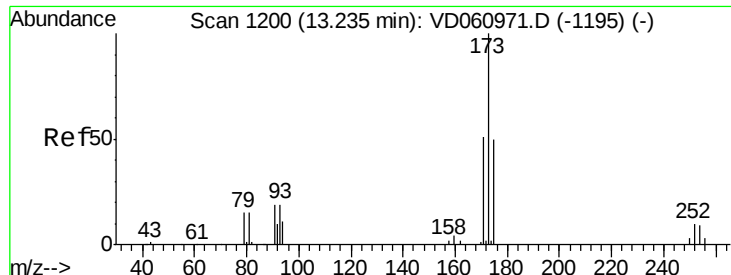
#70
Styrene
Concen: 2.554 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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 :

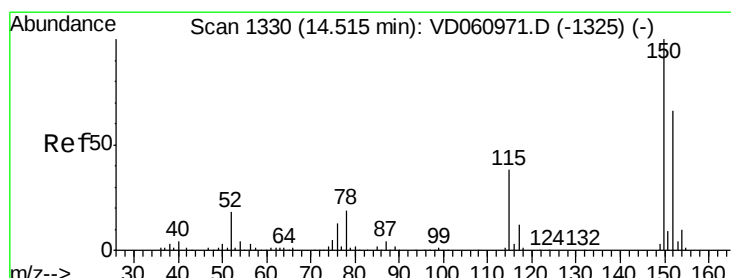
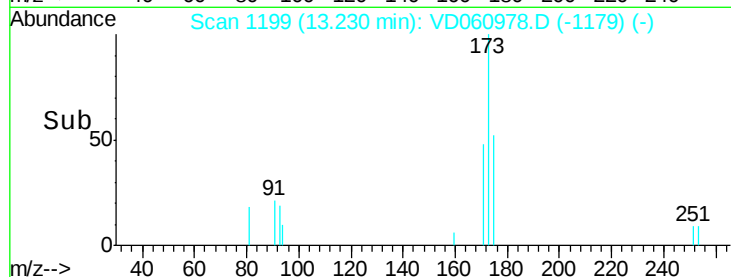
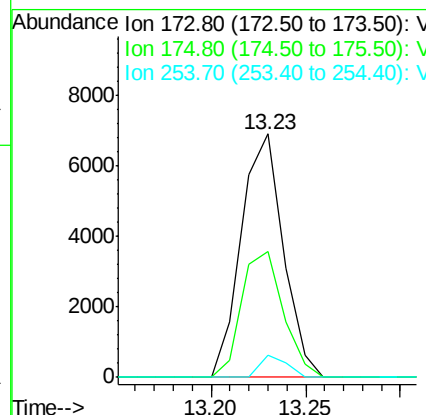
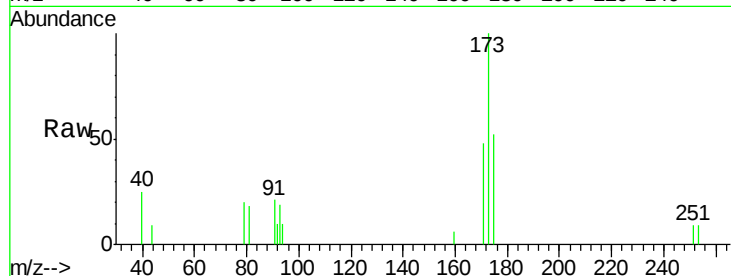
LOD-MDL-SOIL-01-QT1-2019

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

Manual Integrations
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3/11/2019 12:20:32 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

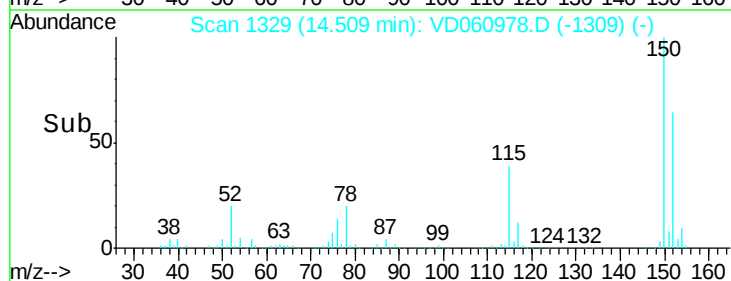
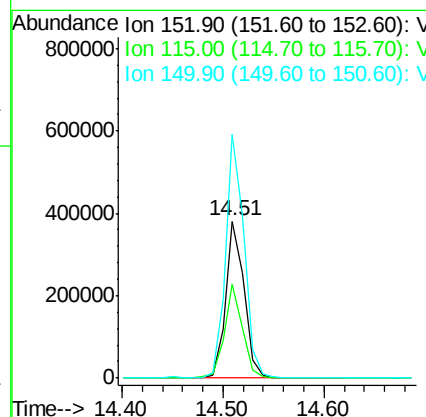
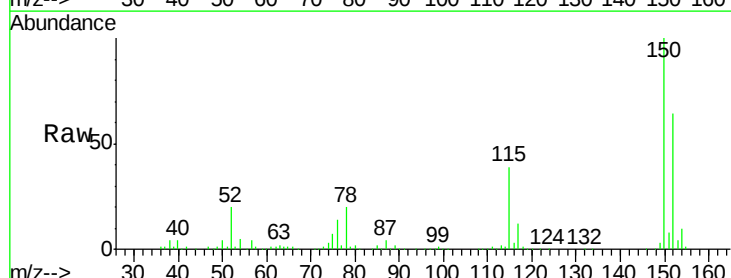
Delta R.T. -0.01 min

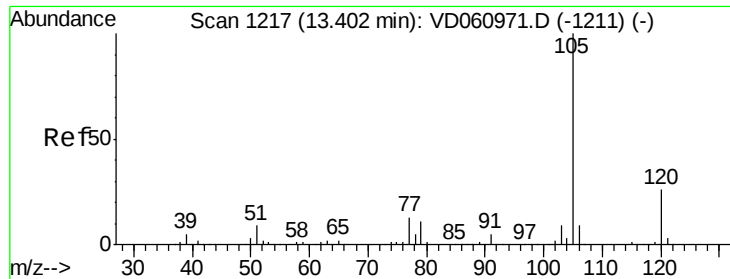
Lab File: VD060978.D

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





#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

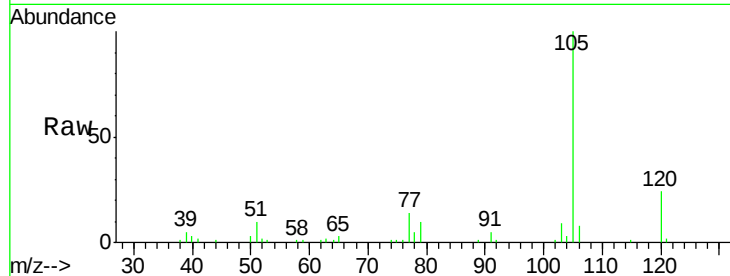
120 24.3 12.8 38.4

Manual Integrations

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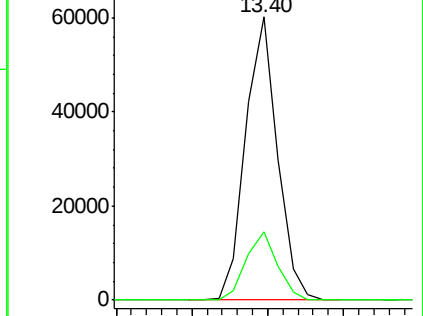
MMDadoda

3/11/2019 12:20:32 PM

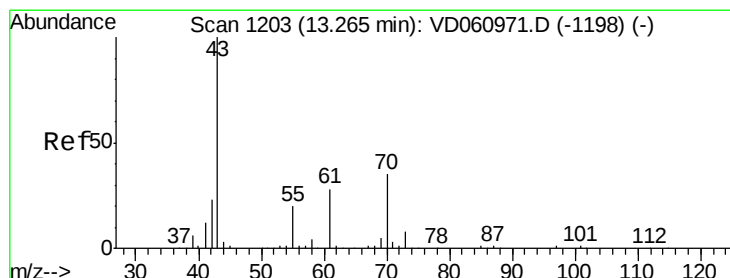
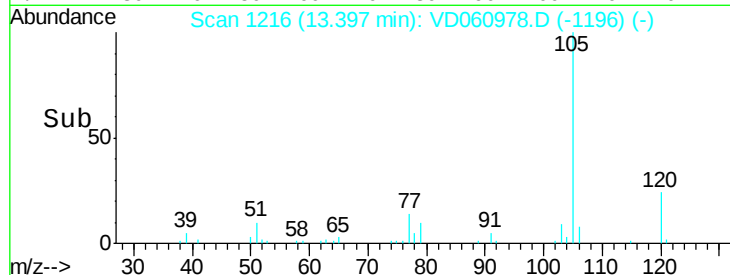


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



Time--> 13.30 13.35 13.40 13.45



#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

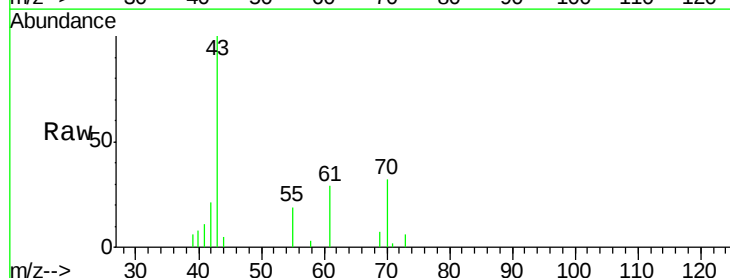
Ion Ratio Lower Upper

43 100

70 31.5 27.7 41.5

55 19.1 16.2 24.2

61 28.8 22.3 33.5

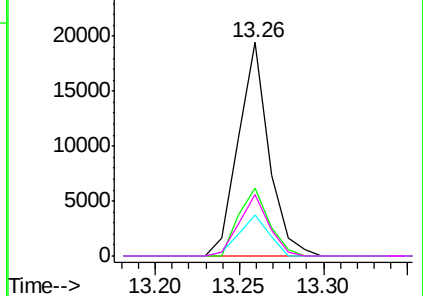


Abundance Ion 42.95 (42.65 to 43.65): V

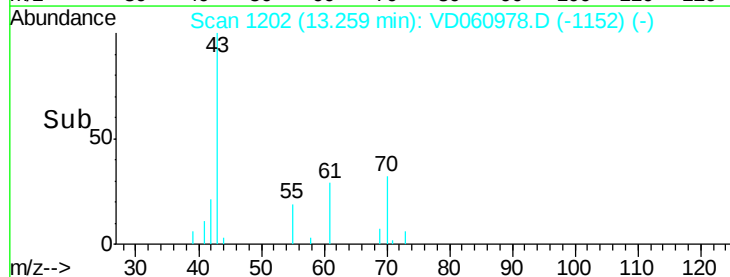
Ion 70.00 (69.70 to 70.70): V

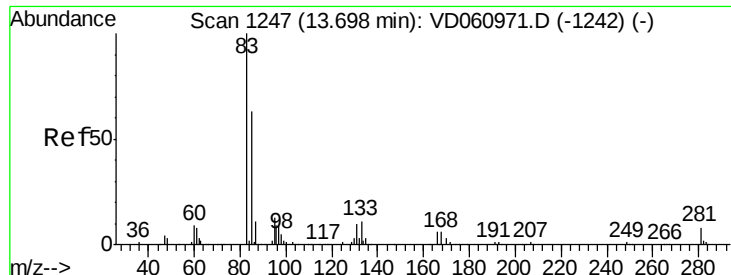
Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V



Time--> 13.20 13.25 13.30





#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

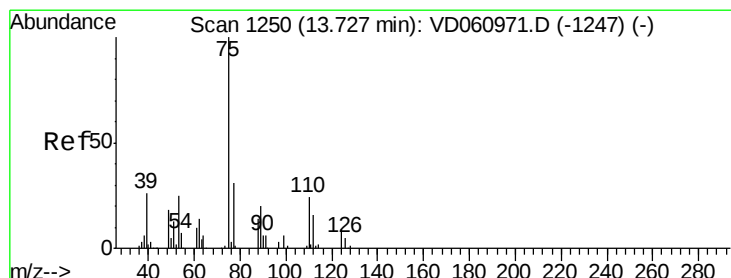
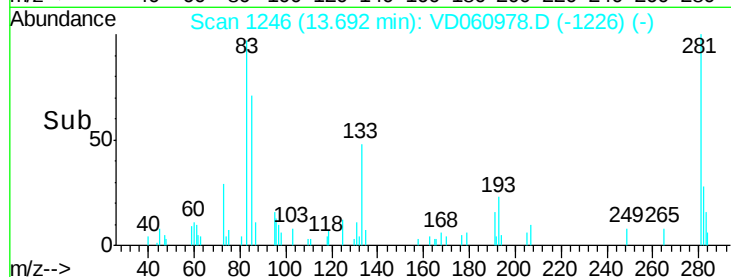
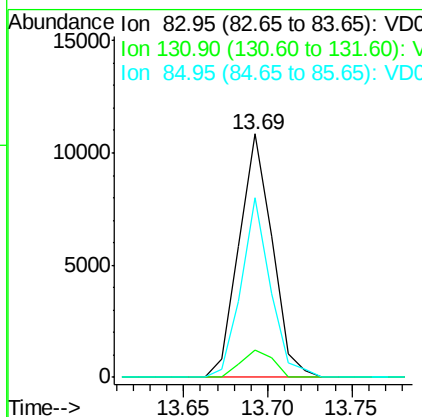
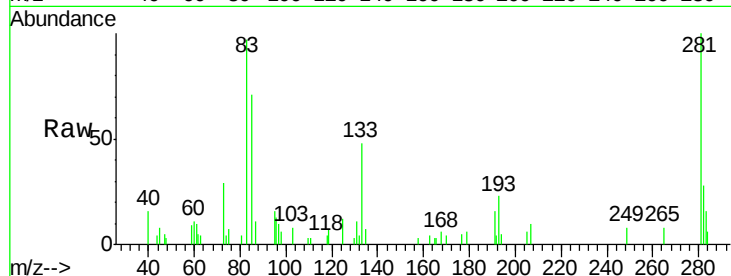
ClientSampleId :

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

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.565 ug/l

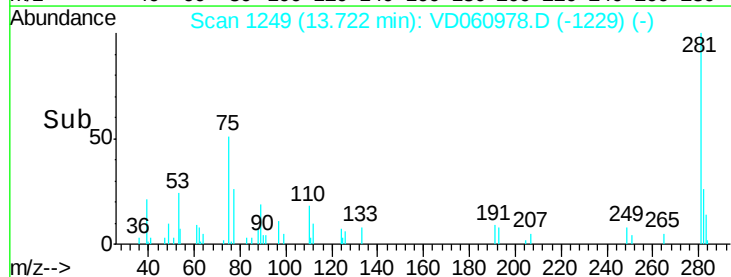
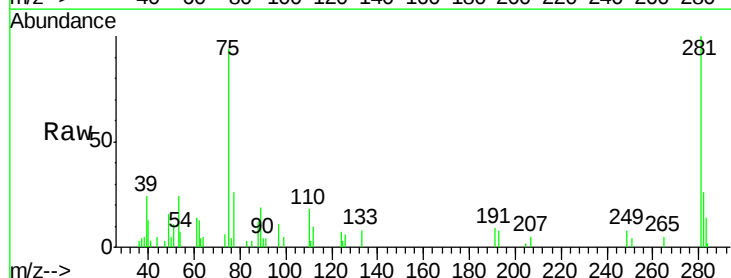
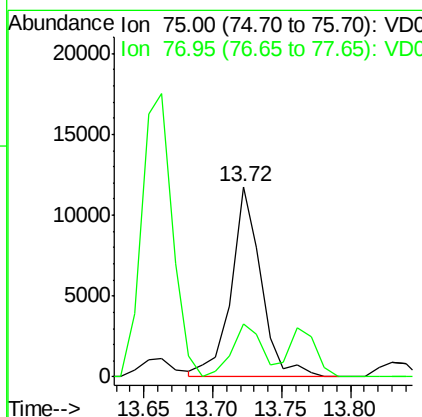
RT: 13.72 min Scan# 1249

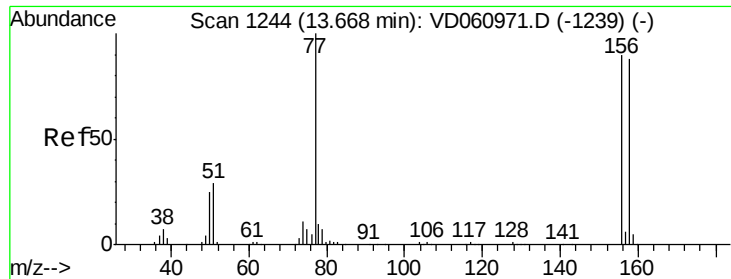
Delta R.T. -0.01 min

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





#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

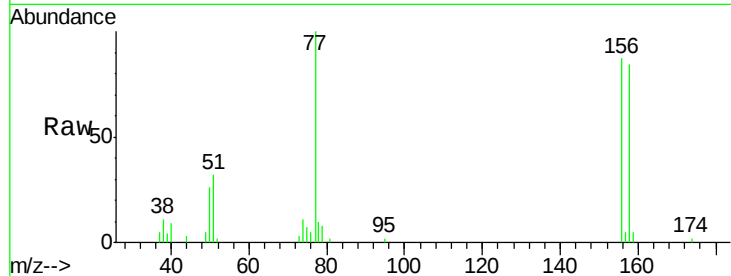
158 96.9 49.0 147.0

Manual Integrations

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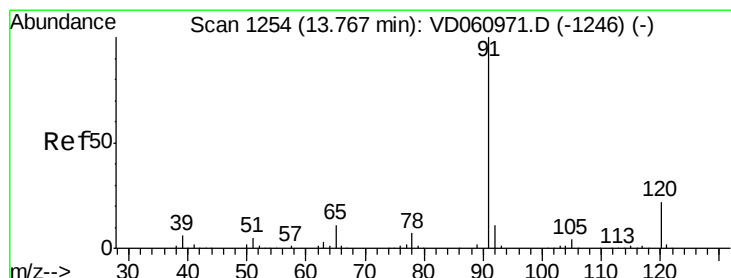
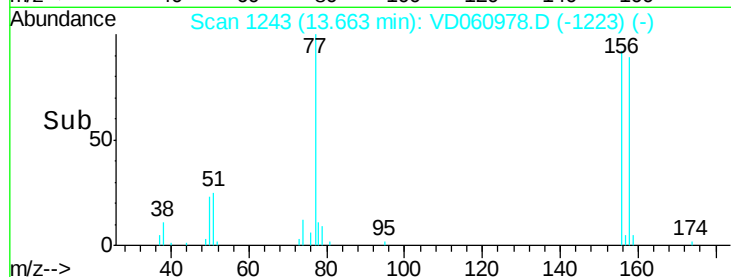
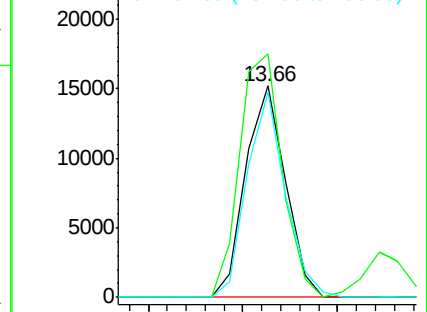
3/11/2019 12:20:32 PM



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

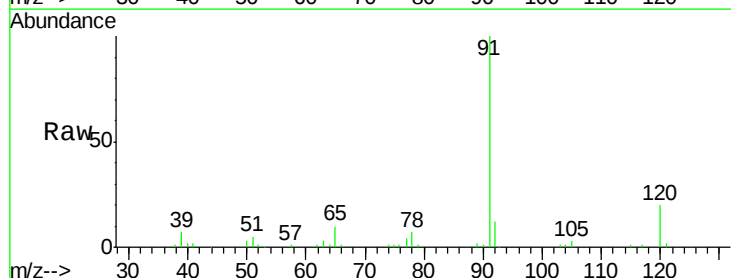
Acq: 8 Mar 2019 12:34

Tgt Ion: 91 Resp: 119152

Ion Ratio Lower Upper

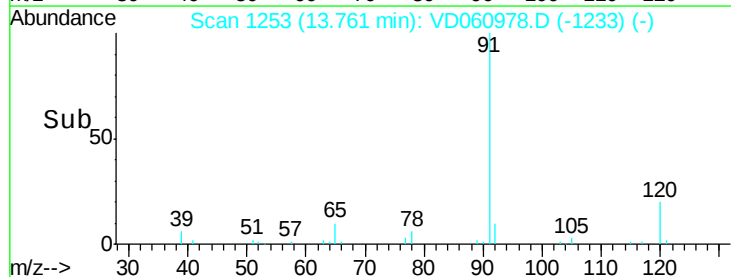
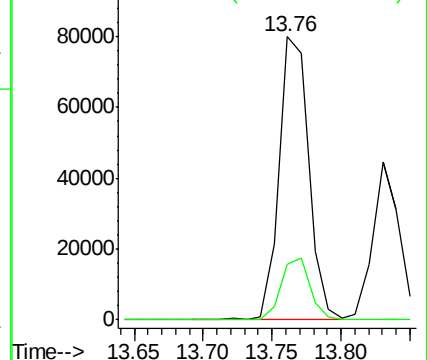
91 100

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

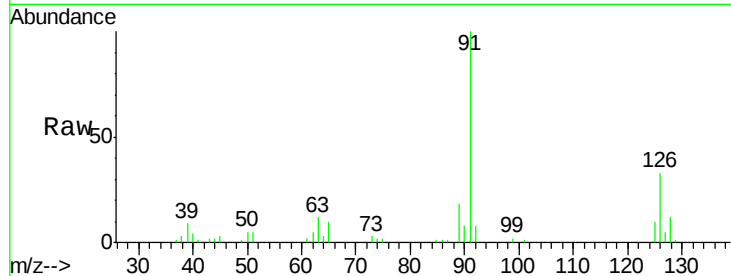
126 33.1 18.6 55.6

Manual Integrations

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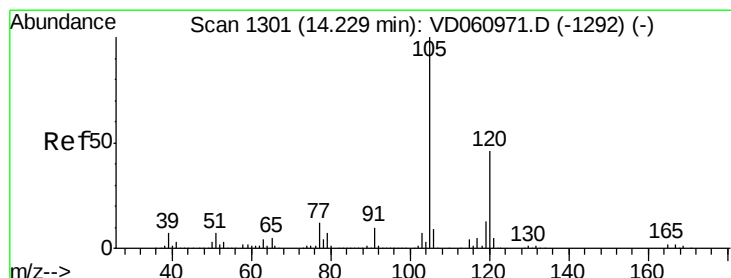
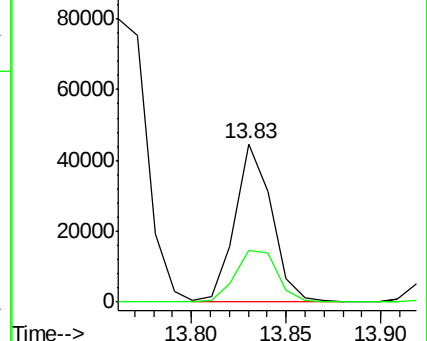
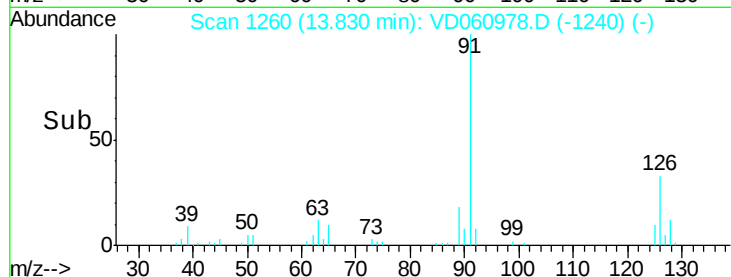
MMDadoda

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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

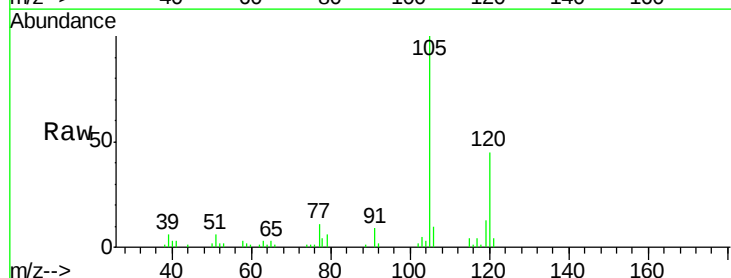
Acq: 8 Mar 2019 12:34

Tgt Ion: 105 Resp: 73262

Ion Ratio Lower Upper

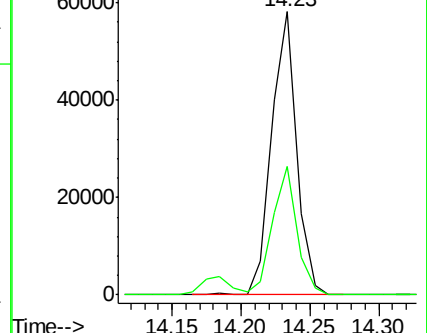
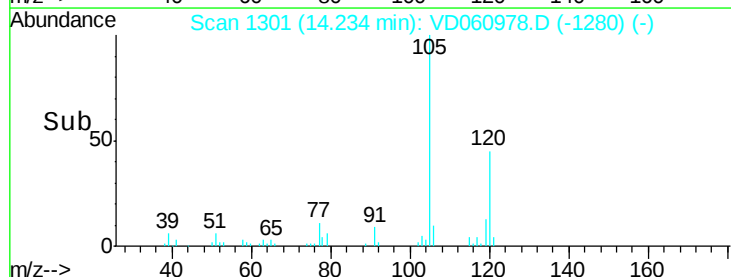
105 100

120 45.2 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060978.D (-1280) (-)

Ion 120.05 (119.75 to 120.75): VD060978.D (-1280) (-)





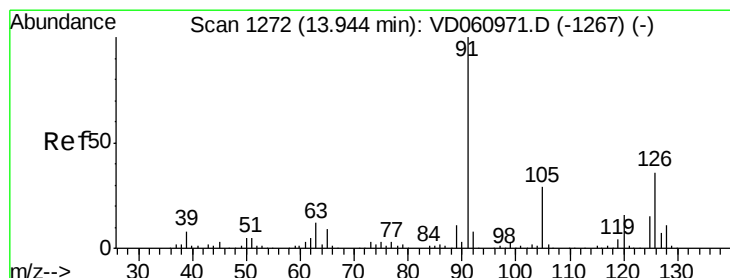
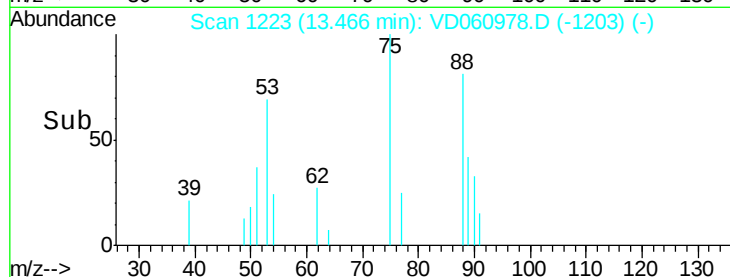
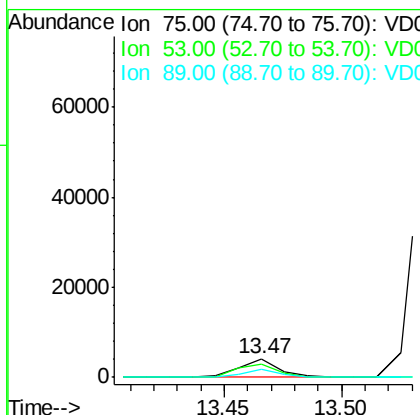
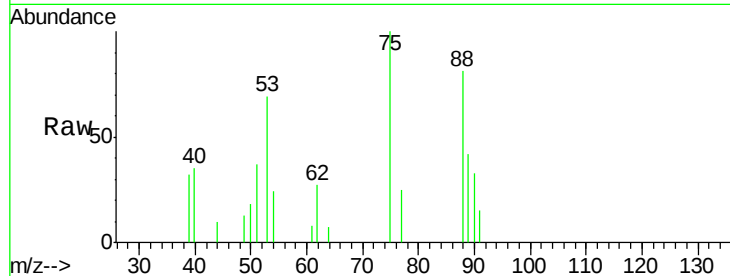
#81
trans-1,4-Dichloro-2-butene
Concen: 2.321 ug/l m
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	69.4	64.4	96.6
89	42.2	34.8	52.2

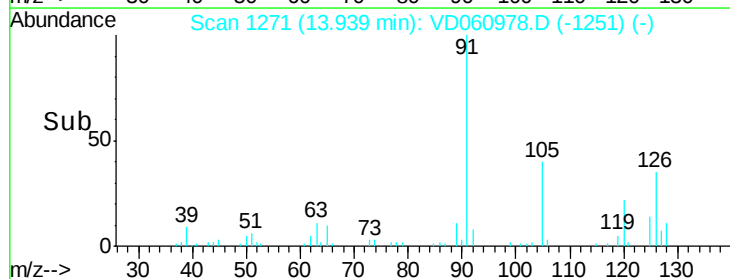
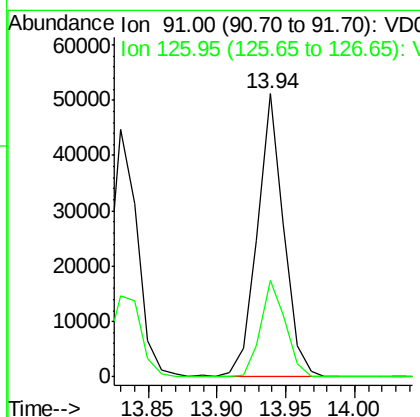
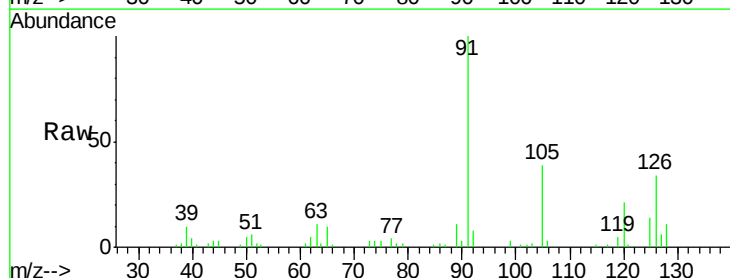
Manual Integrations
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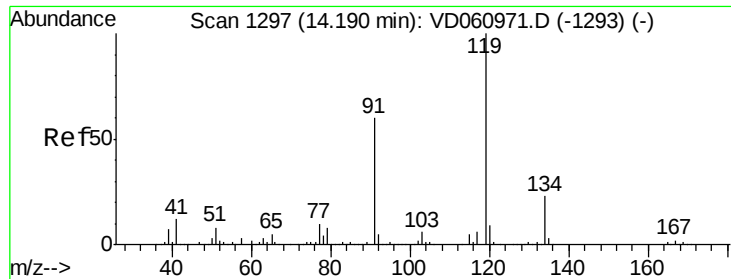
MMDadoda
3/11/2019 12:20:32 PM



#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	Ratio	Lower	Upper
91	100		
126	34.0	18.0	54.0





#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

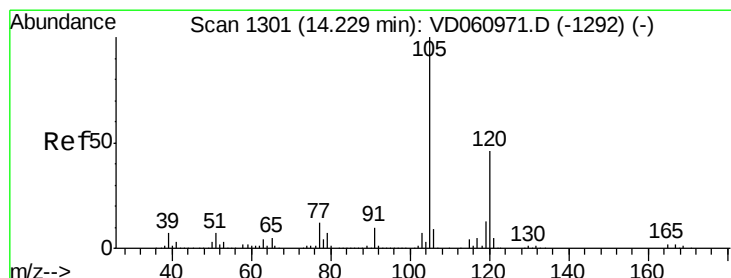
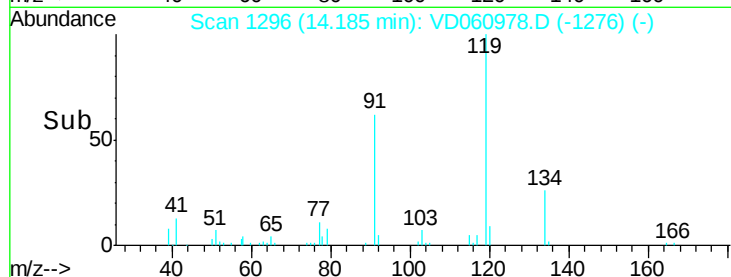
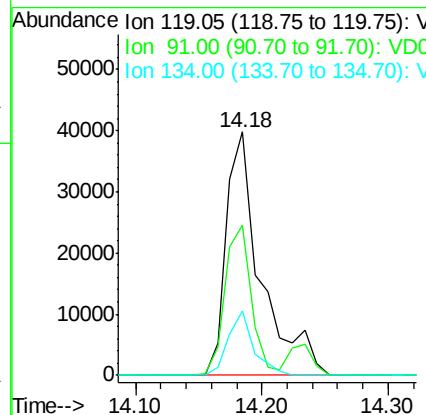
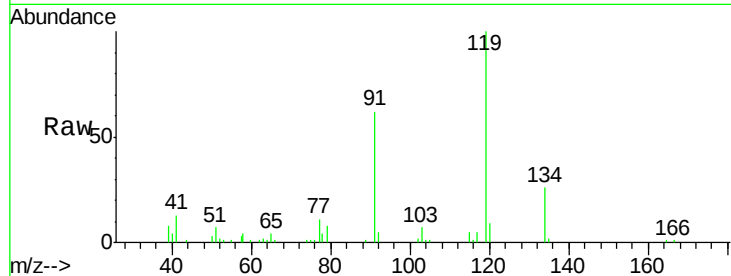
ClientSampleID :

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

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#84

1,2,4-Trimethylbenzene

Concen: 2.777 ug/l

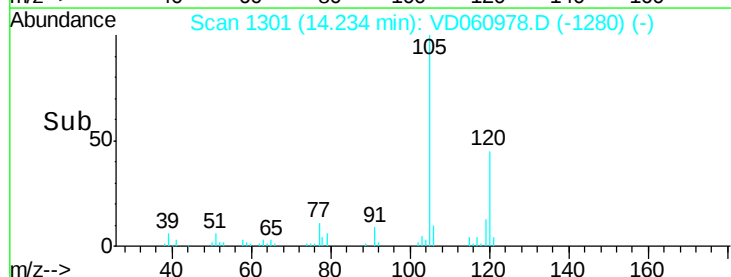
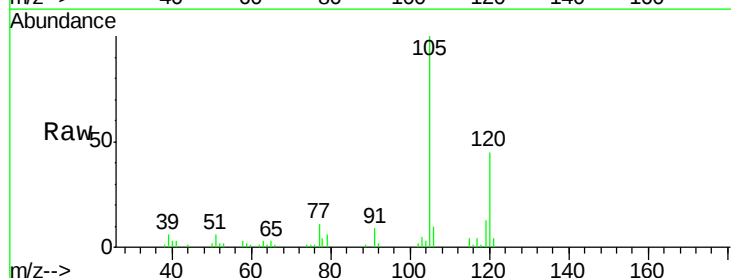
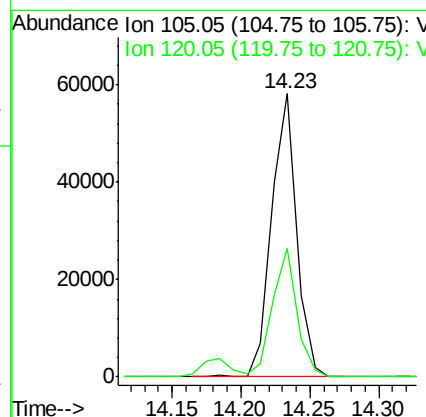
RT: 14.23 min Scan# 1301

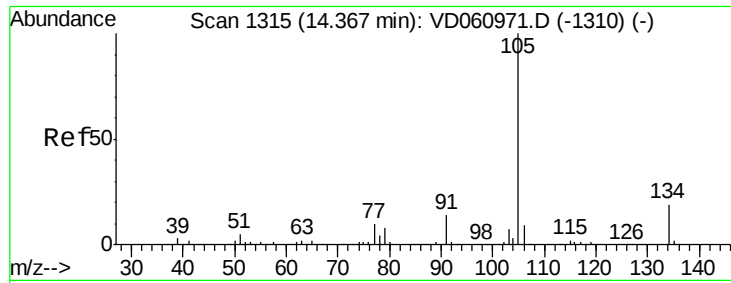
Delta R.T. 0.00 min

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

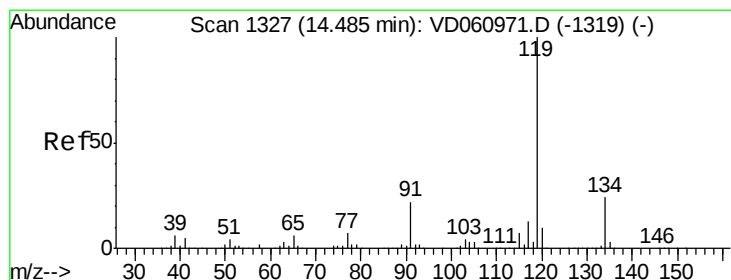
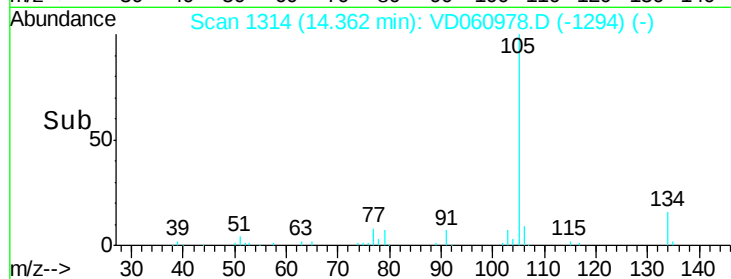
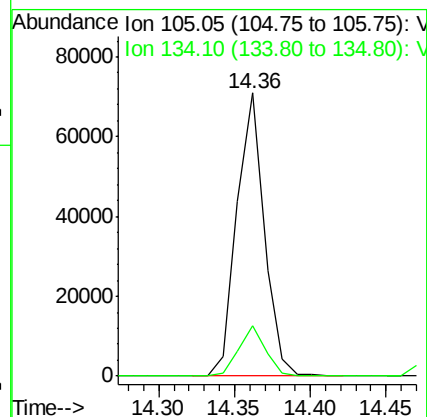
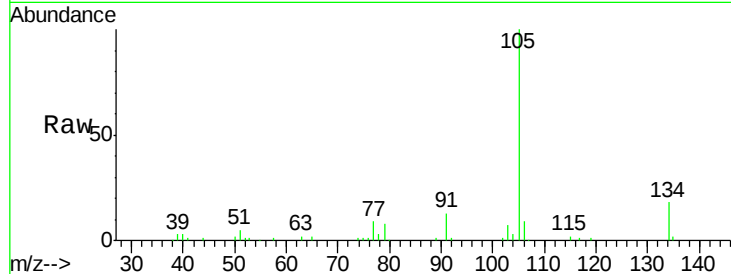
134 17.9 9.4 28.2

Manual Integrations

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#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

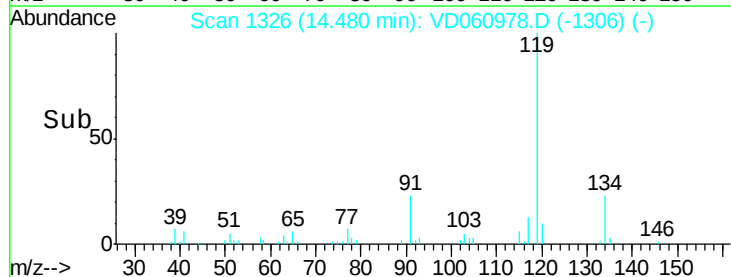
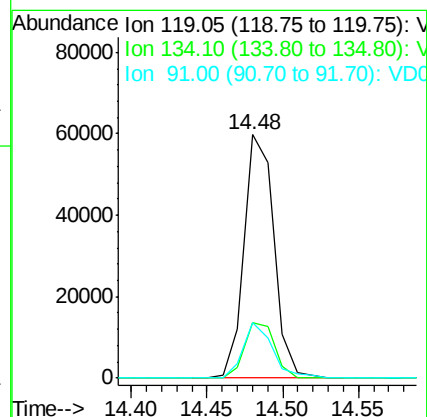
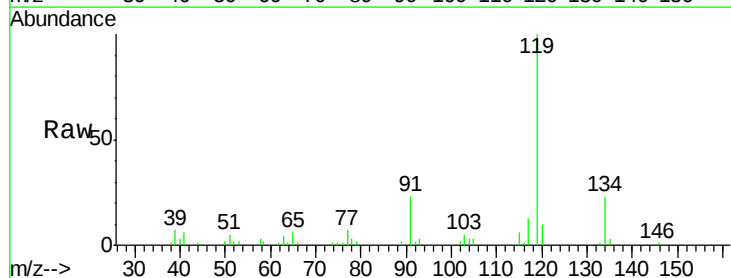
Tgt Ion:119 Resp: 81547

Ion Ratio Lower Upper

119 100

134 23.0 12.0 36.1

91 22.7 11.2 33.6





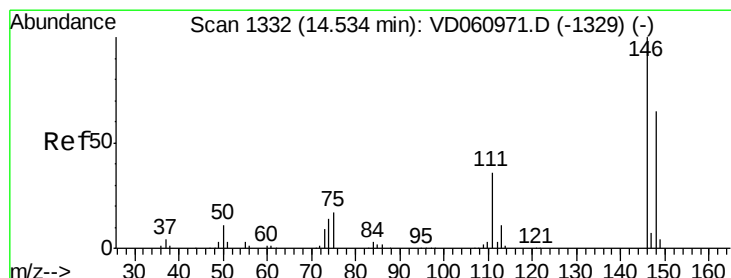
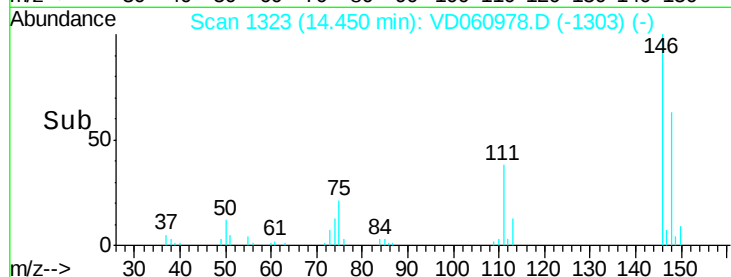
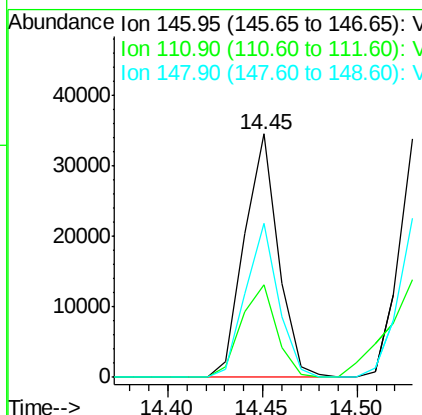
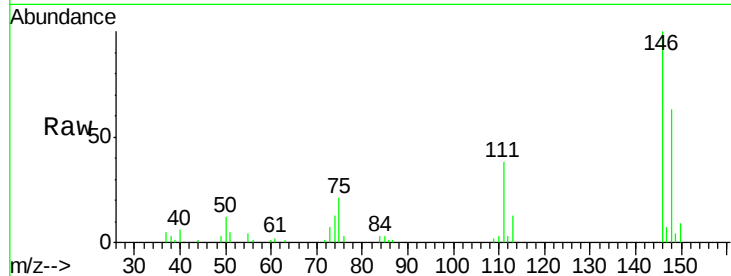
#87
 1,3-Dichlorobenzene
 Concen: 2.692 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

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

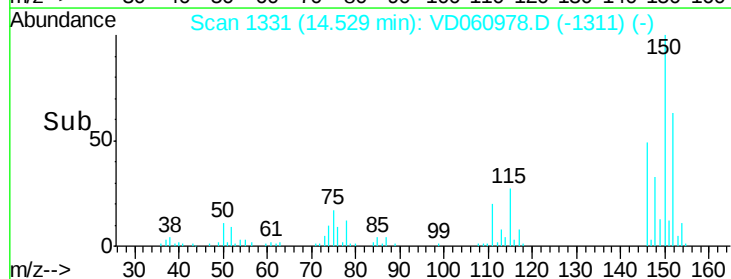
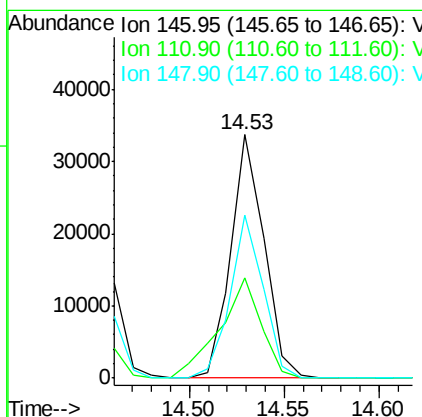
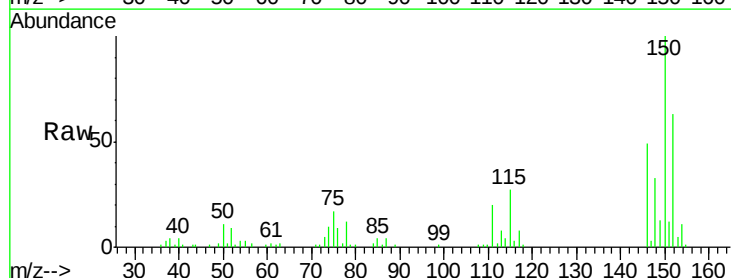
Manual Integrations
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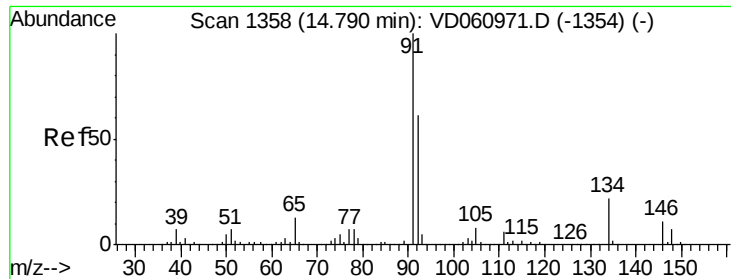
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#88
 1,4-Dichlorobenzene
 Concen: 2.620 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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





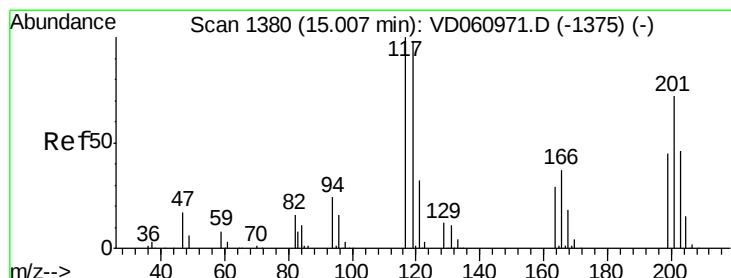
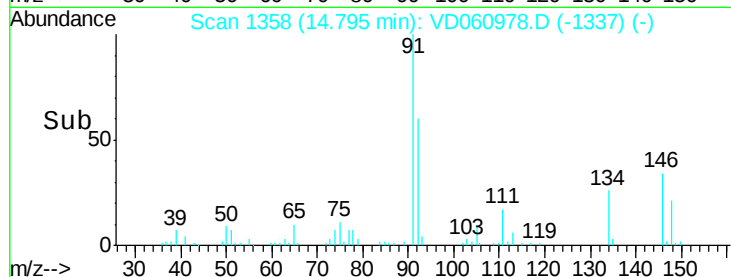
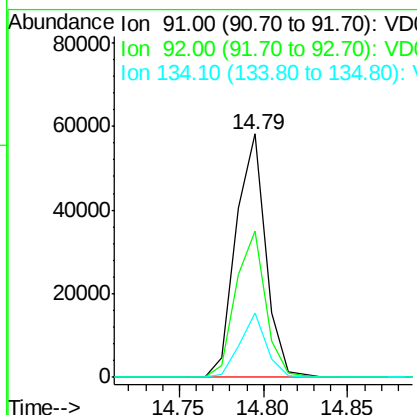
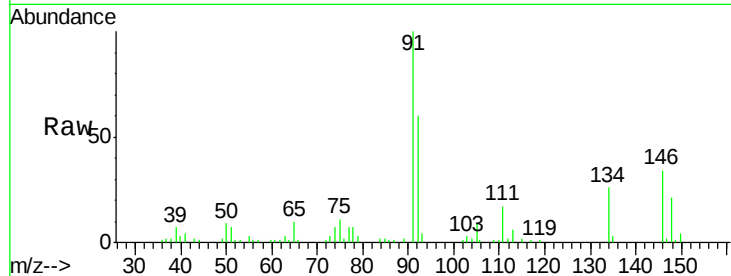
#89
n-Butylbenzene
Concen: 2.580 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD060978.D
Acq: 8 Mar 2019 12:34

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.2	30.6	91.8
134	26.3	11.0	33.0

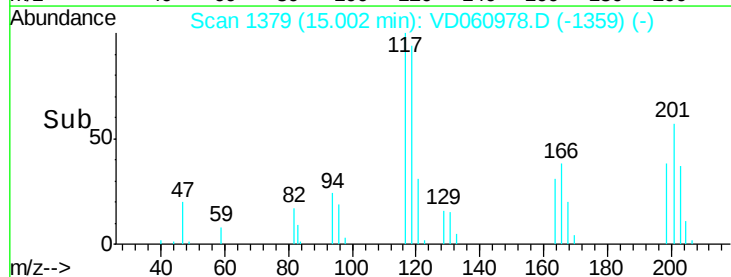
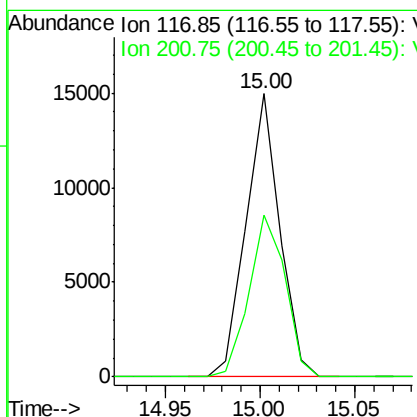
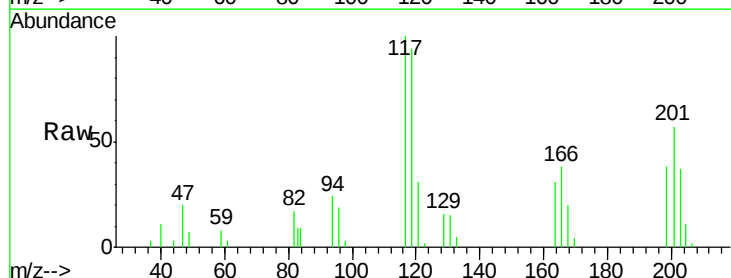
Manual Integrations
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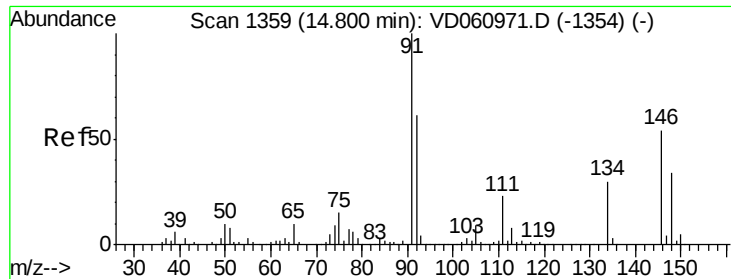
MMDadoda
3/11/2019 12:20:32 PM



#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	Ratio	Lower	Upper
117	100		
201	57.1	36.2	108.6





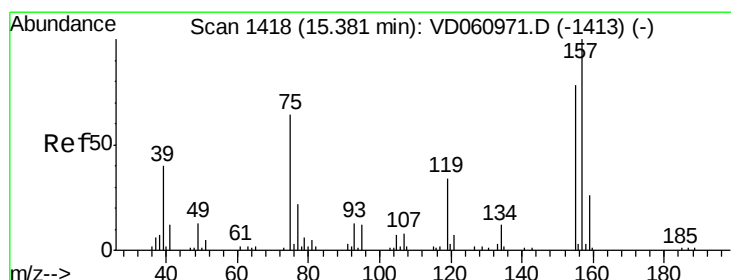
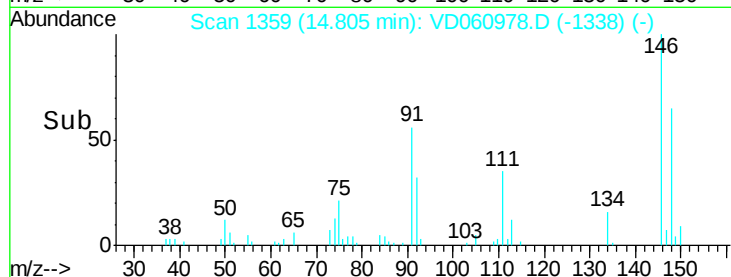
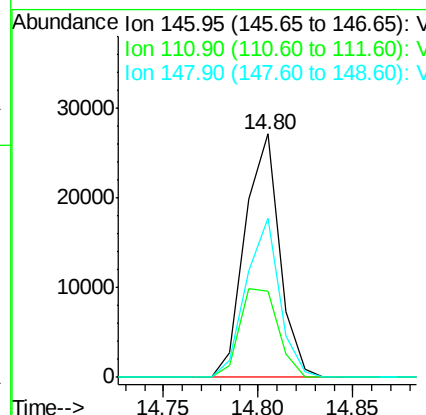
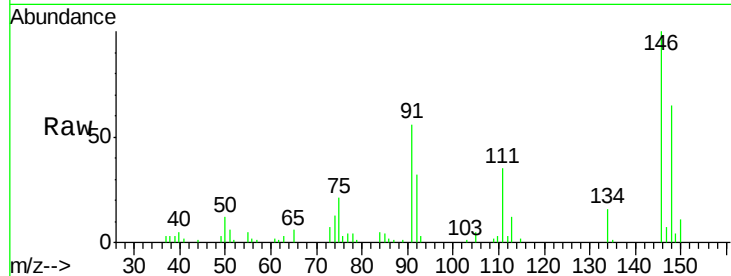
#91
 1,2-Dichlorobenzene
 Concen: 2.602 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

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

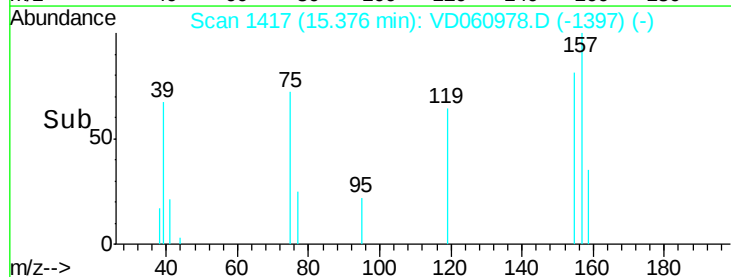
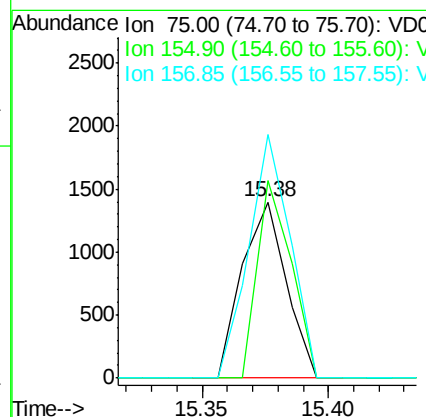
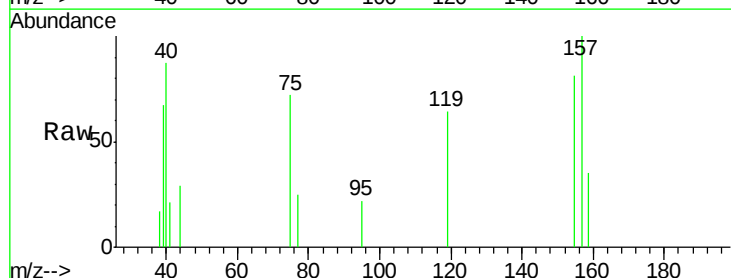
Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:20:32 PM



#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	Ratio	Lower	Upper
75	100		
155	112.2	61.2	183.5
157	138.2	78.3	234.8





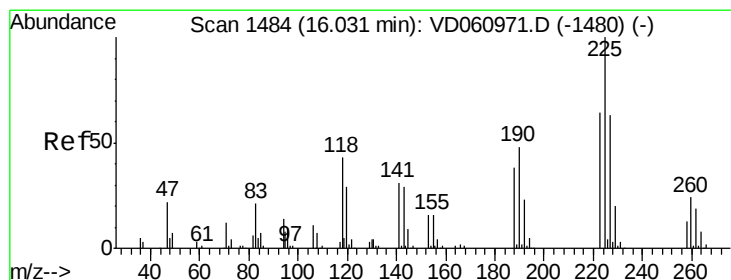
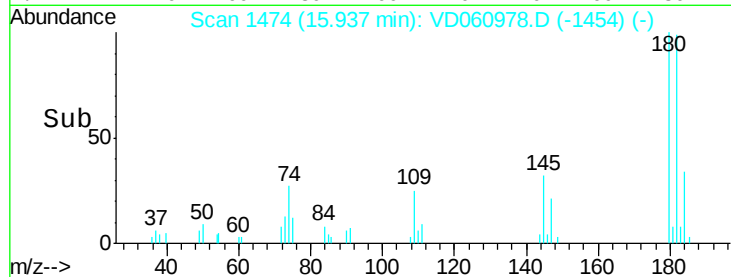
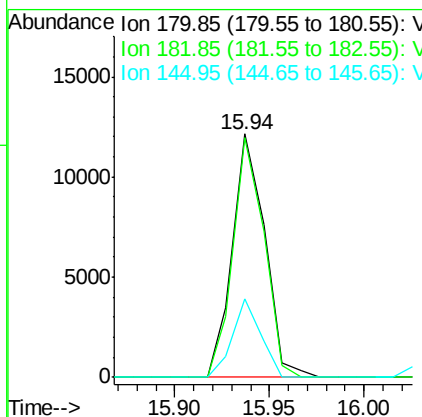
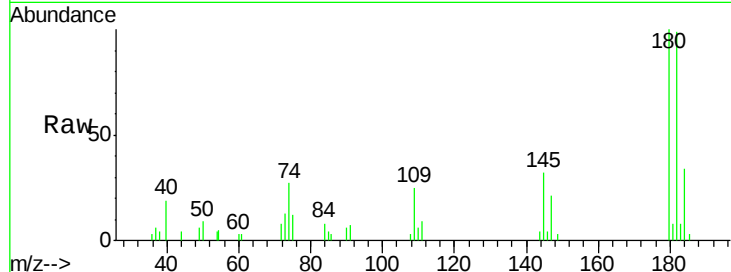
#93
 1,2,4-Trichlorobenzene
 Concen: 2.340 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD060978.D
 Acq: 8 Mar 2019 12:34

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

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

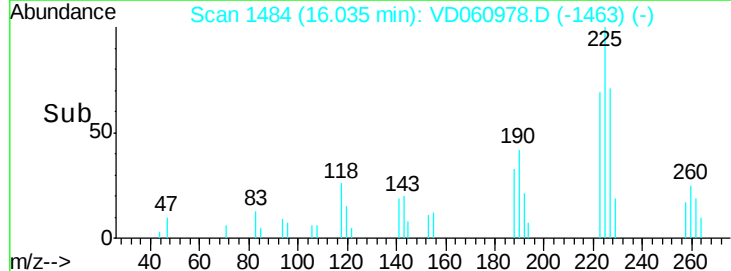
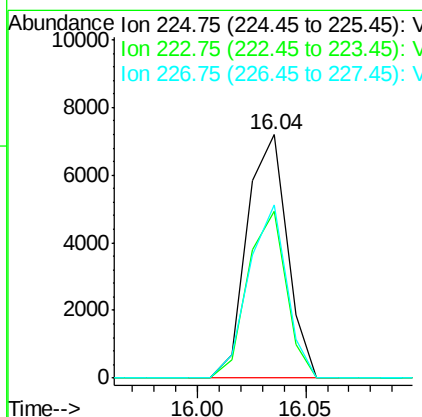
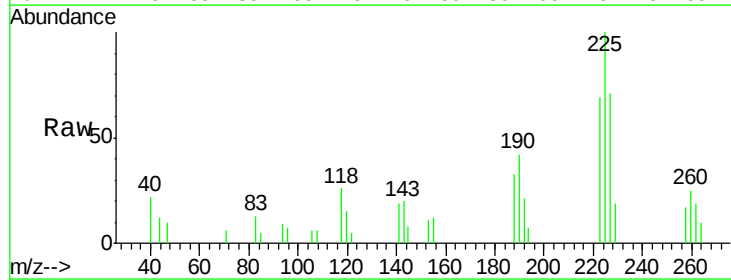
Manual Integrations
 APPROVED

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 3/11/2019 12:20:32 PM



#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	Ratio	Lower	Upper
225	100		
223	68.7	31.8	95.3
227	70.9	31.4	94.0





#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

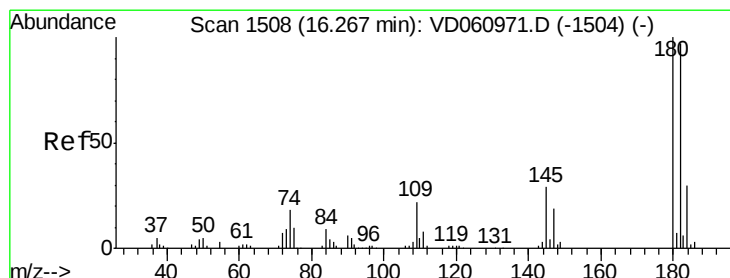
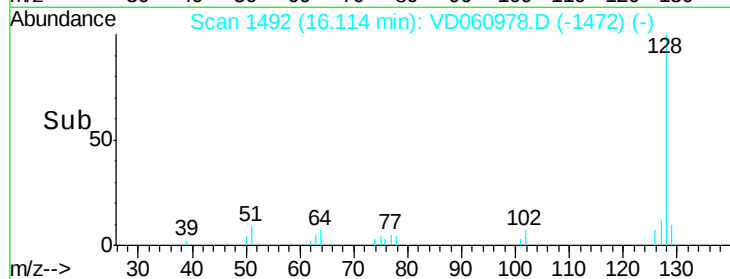
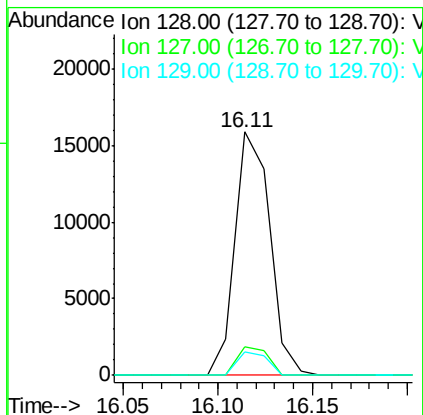
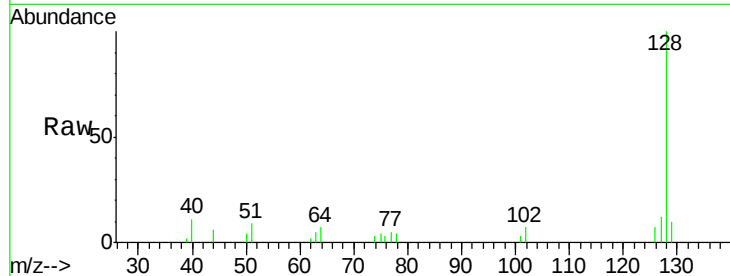
ClientSampleId :

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

Manual Integrations
APPROVED

MMDadoda
3/11/2019 12:20:32 PM



#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

