

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101420\
 Data File : VD067266.D
 Acq On : 14 Oct 2020 12:59
 Operator : VA/SY
 Sample : L4214-03 4PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/15/2020 12:18:50 PM

Quant Time: Oct 15 07:56:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 07:51:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	317284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	502742	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	469575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	240165	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	172958	54.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.82%	
35) Dibromofluoromethane	7.92	113	176680	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
50) Toluene-d8	10.34	98	630716	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
62) 4-Bromofluorobenzene	12.64	95	223075	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	12749	4.430	ug/l	99
3) Chloromethane	2.21	50	9562	4.789	ug/l	99
4) Vinyl Chloride	2.34	62	10096	4.608	ug/l	97
5) Bromomethane	2.77	94	9124	5.387	ug/l #	78
6) Chloroethane	2.93	64	6421	4.706	ug/l	94
7) Trichlorofluoromethane	3.27	101	24639	4.466	ug/l	90
8) Diethyl Ether	3.71	74	5926	4.694	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.09	101	13512	4.610	ug/l #	92
10) Methyl Iodide	4.30	142	11163	4.129	ug/l	99
11) Tert butyl alcohol	5.22	59	8503m	36.833	ug/l	
12) 1,1-Dichloroethene	4.07	96	12225	4.669	ug/l #	78
13) Acrolein	3.92	56	2952	17.947	ug/l #	76
14) Allyl chloride	4.71	41	12451	4.152	ug/l	91
15) Acrylonitrile	5.43	53	9887	23.471	ug/l #	86
16) Acetone	4.16	43	11170	25.091	ug/l #	84
17) Carbon Disulfide	4.41	76	34523	4.625	ug/l	97
18) Methyl Acetate	4.72	43	6108	6.015	ug/l	94
19) Methyl tert-butyl Ether	5.48	73	22517	4.324	ug/l #	91
20) Methylene Chloride	4.96	84	21196	6.314	ug/l #	91
21) trans-1,2-Dichloroethene	5.47	96	14143	4.693	ug/l	94
22) Diisopropyl ether	6.36	45	23422	4.276	ug/l	96
23) Vinyl Acetate	6.31	43	52938	16.986	ug/l	95
24) 1,1-Dichloroethane	6.27	63	21240	4.529	ug/l	93
25) 2-Butanone	7.22	43	12182	24.006	ug/l	96
26) 2,2-Dichloropropane	7.21	77	22273	4.608	ug/l	95
27) cis-1,2-Dichloroethene	7.21	96	15383	4.658	ug/l	98
28) Bromochloromethane	7.55	49	7768	4.857	ug/l #	97
29) Tetrahydrofuran	7.57	42	6828	24.205	ug/l	96
30) Chloroform	7.71	83	26184	4.674	ug/l	95
31) Cyclohexane	7.98	56	19687	5.377	ug/l #	76
32) 1,1,1-Trichloroethane	7.91	97	25434	4.627	ug/l	96
36) 1,1-Dichloropropene	8.11	75	19511	4.579	ug/l	96
37) Ethyl Acetate	7.30	43	5642	4.500	ug/l	94
38) Carbon Tetrachloride	8.10	117	22636	4.156	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	17742	3.983	ug/l	90
40) Benzene	8.36	78	52221	4.467	ug/l	96
41) Methacrylonitrile	7.54	41	3545m	5.233	ug/l	
42) 1,2-Dichloroethane	8.43	62	16066	4.392	ug/l	95
43) Isopropyl Acetate	8.46	43	10830	4.354	ug/l	99
44) Trichloroethene	9.11	130	16136	4.311	ug/l	89
45) 1,2-Dichloropropane	9.38	63	11316	4.177	ug/l #	84
46) Dibromomethane	9.48	93	7483	4.433	ug/l	95
47) Bromodichloromethane	9.67	83	20097	4.444	ug/l	97
48) Methyl methacrylate	9.46	41	5449	4.507	ug/l	87
49) 1,4-Dioxane	9.46	88	1444	81.276	ug/l #	79
51) 4-Methyl-2-Pentanone	10.23	43	24287	19.574	ug/l	94
52) Toluene	10.41	92	35933	4.513	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	17031	4.287	ug/l	89
54) cis-1,3-Dichloropropene	10.10	75	18528	3.985	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	10342	4.493	ug/l #	86
56) Ethyl methacrylate	10.67	69	9975	4.179	ug/l	96
57) 1,3-Dichloropropane	10.95	76	16688	4.556	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.95	63	23231	18.970	ug/l	98
59) 2-Hexanone	10.99	43	17189	20.274	ug/l	96
60) Dibromochloromethane	11.14	129	15464	4.607	ug/l	99
61) 1,2-Dibromoethane	11.25	107	9932	4.377	ug/l	94
64) Tetrachloroethene	10.88	164	15704	4.616	ug/l #	91
65) Chlorobenzene	11.67	112	40149	4.459	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	16040	4.482	ug/l	98
67) Ethyl Benzene	11.75	91	63486	4.113	ug/l	95
68) m/p-Xylenes	11.86	106	48116	8.095	ug/l	96
69) o-Xylene	12.18	106	19782	3.594	ug/l	90
70) Styrene	12.20	104	36618	3.865	ug/l	97
71) Bromoform	12.36	173	8882	4.620	ug/l #	100
73) Isopropylbenzene	12.48	105	56754	3.723	ug/l	96
74) N-amyl acetate	12.29	43	9086	3.947	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.74	83	11080	4.744	ug/l	95
76) 1,2,3-Trichloropropane	12.79	75	7887m	4.738	ug/l	
77) Bromobenzene	12.77	156	17251	4.540	ug/l	99
78) n-propylbenzene	12.83	91	70506	3.992	ug/l	98
79) 2-Chlorotoluene	12.91	91	44271	4.323	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	51599	3.896	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.54	75	3466	4.722	ug/l #	74
82) 4-Chlorotoluene	13.01	91	44853	4.126	ug/l	96
83) tert-Butylbenzene	13.23	119	42306	3.781	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	50577	3.863	ug/l	98
85) sec-Butylbenzene	13.41	105	59763	3.893	ug/l	96
86) p-Isopropyltoluene	13.52	119	55447	3.826	ug/l	98
87) 1,3-Dichlorobenzene	13.52	146	30254	4.136	ug/l	94
88) 1,4-Dichlorobenzene	13.60	146	33637	4.642	ug/l	94
89) n-Butylbenzene	13.85	91	49691	3.898	ug/l	99
90) Hexachloroethane	14.12	117	10092	3.991	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	26925	4.214	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1992	4.695	ug/l	85

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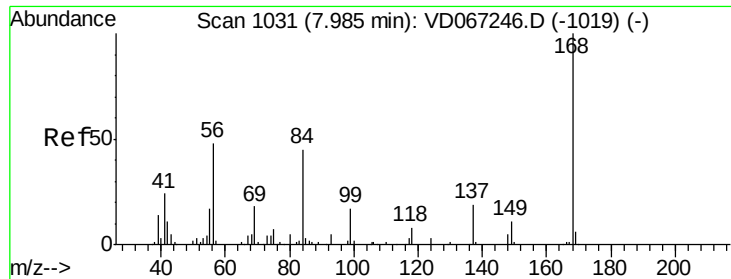
Manual Integrations
APPROVED

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	18224	4.230	ug/l	95
94) Hexachlorobutadiene	15.27	225	11266	4.211	ug/l	92
95) Naphthalene	15.41	128	26848	3.796	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	14487	3.892	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 317284

Ion Ratio Lower Upper

168 100

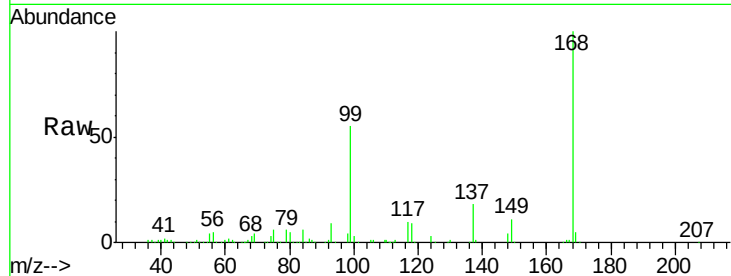
99 54.4 45.9 68.9

Manual Integrations

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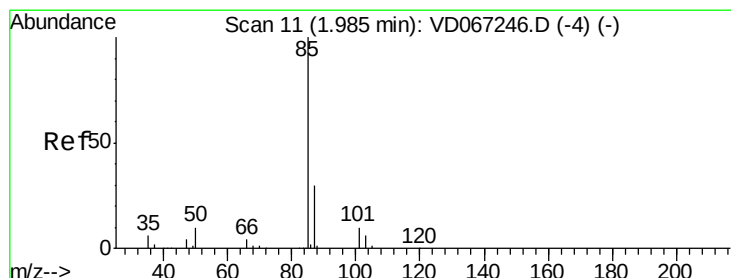
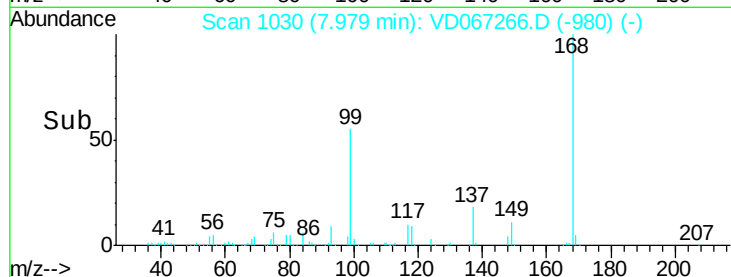
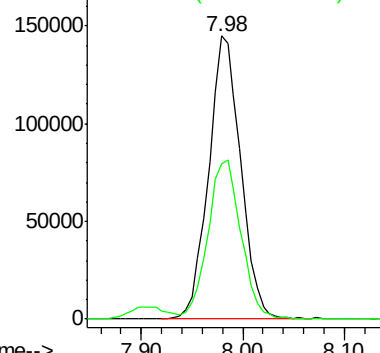
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10/15/2020 12:18:50 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.430 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067266.D

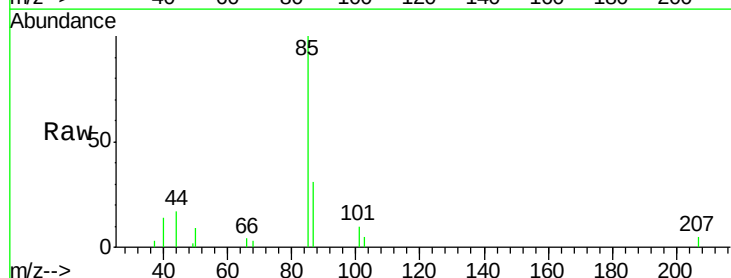
Acq: 14 Oct 2020 12:59

Tgt Ion: 85 Resp: 12749

Ion Ratio Lower Upper

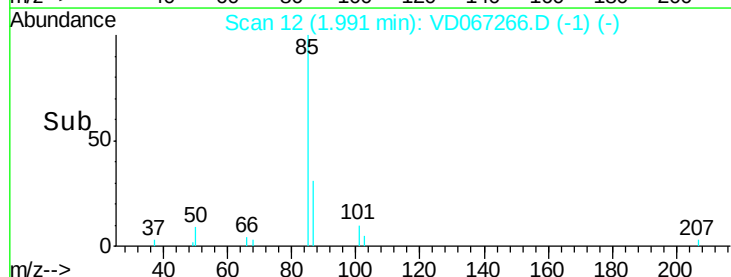
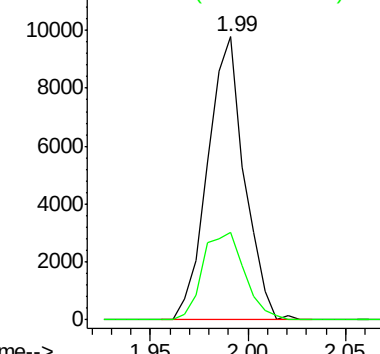
85 100

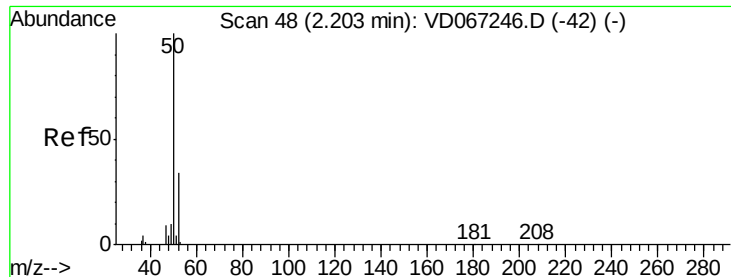
87 30.8 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.789 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 9562

Ion Ratio Lower Upper

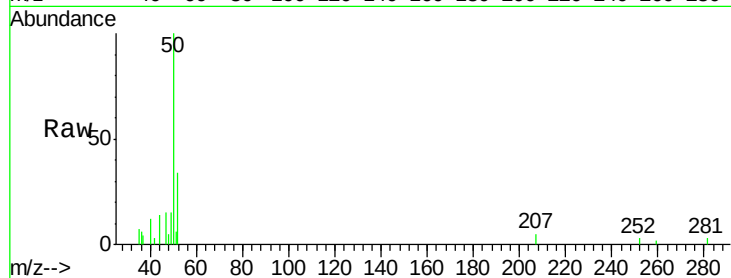
50 100

52 34.5 27.1 40.7

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

8000

6000

4000

2000

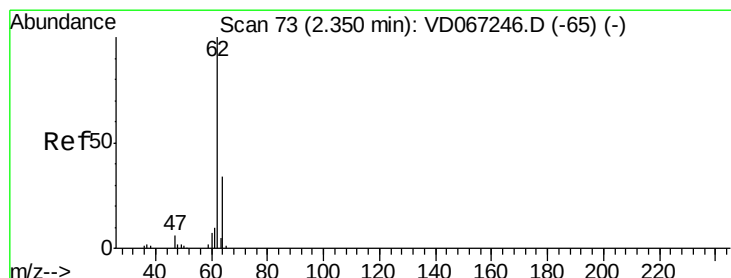
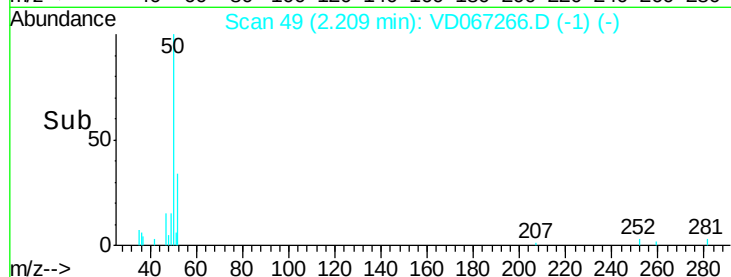
0

2.15

2.20

2.25

Time-->



#4

Vinyl Chloride

Concen: 4.608 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD067266.D

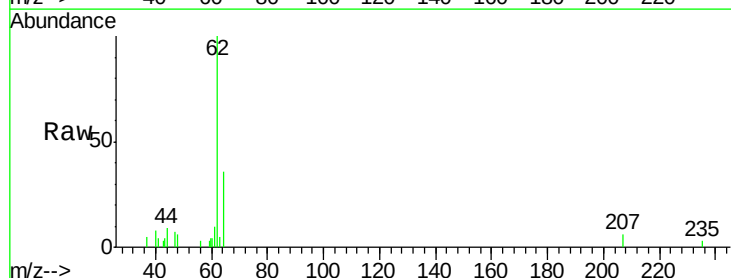
Acq: 14 Oct 2020 12:59

Tgt Ion: 62 Resp: 10096

Ion Ratio Lower Upper

62 100

64 36.1 27.4 41.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

6000

4000

2000

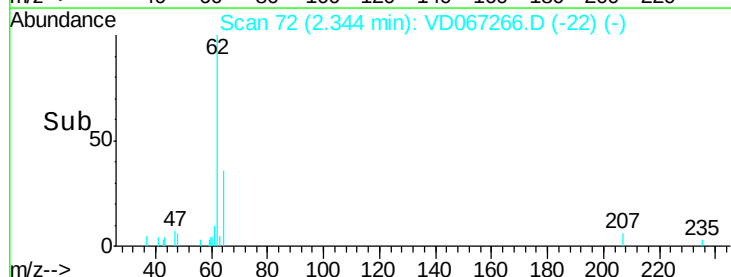
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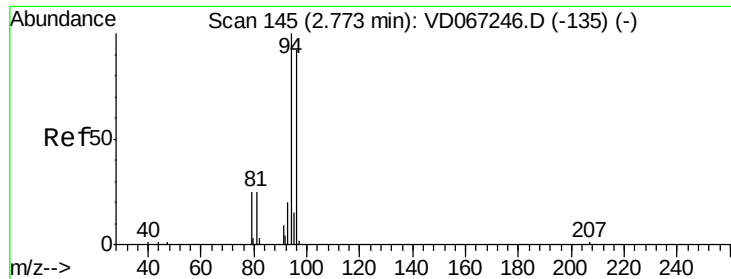
2.30

2.35

2.40

Time-->





#5

Bromomethane

Concen: 5.387 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

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MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 9124

Ion Ratio Lower Upper

94 100

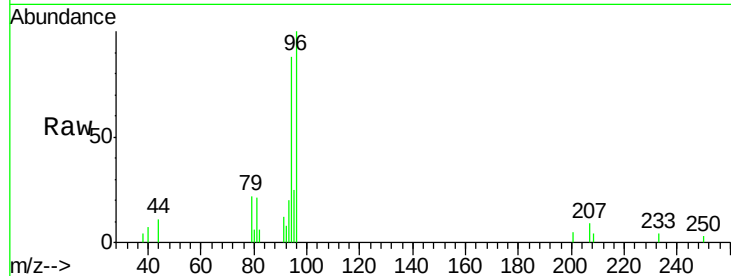
96 113.1 73.8 110.6#

Manual Integrations

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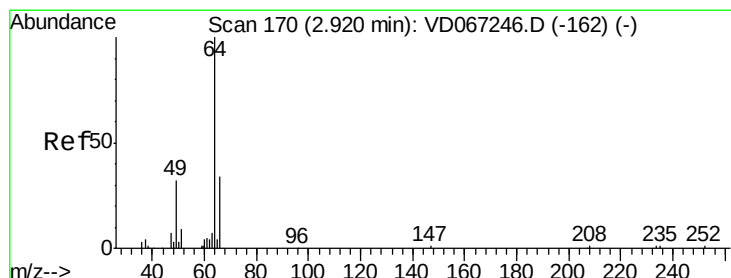
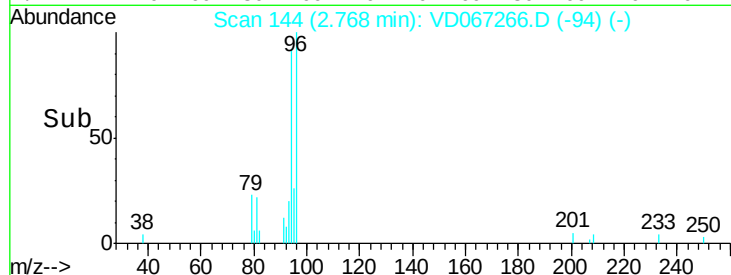
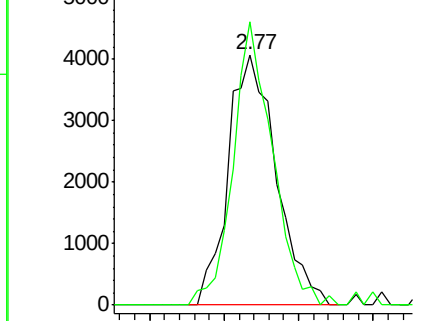
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.706 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD067266.D

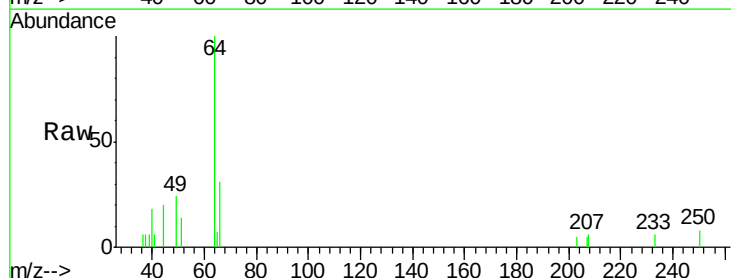
Acq: 14 Oct 2020 12:59

Tgt Ion: 64 Resp: 6421

Ion Ratio Lower Upper

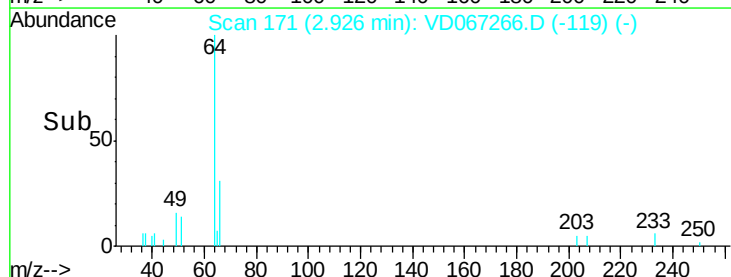
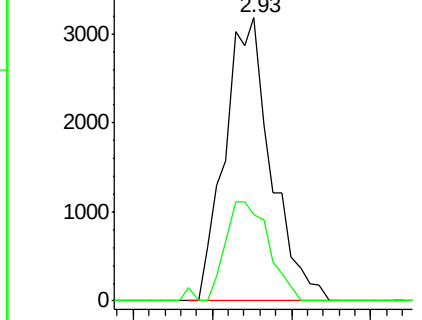
64 100

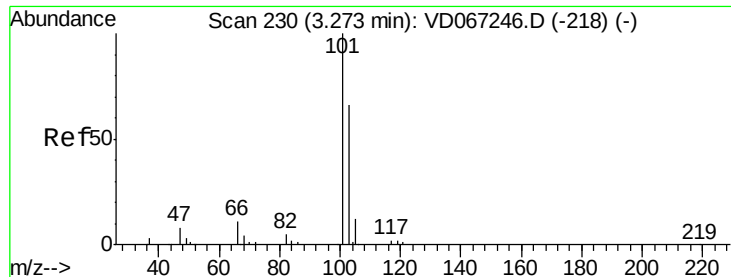
66 30.7 27.4 41.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

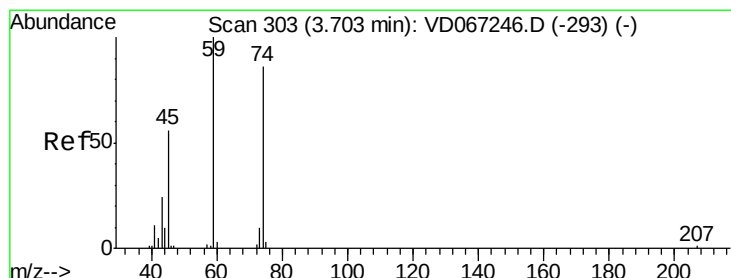
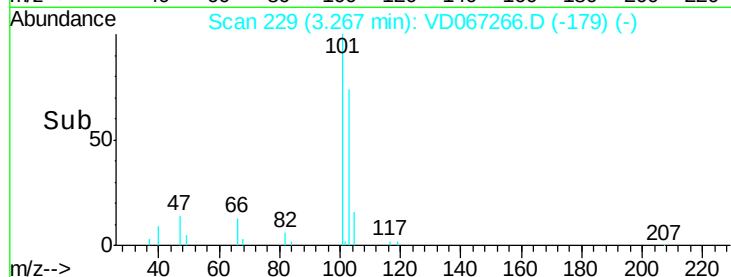
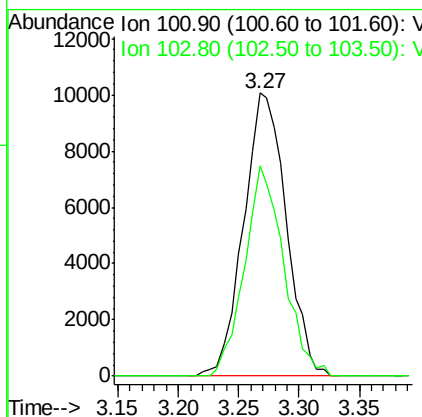
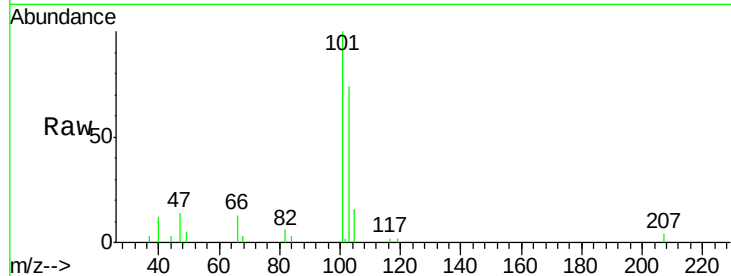
Trichlorofluoromethane
 Concen: 4.466 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VD067266.D
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		24639		
103	74.4	53.1	79.7		

Manual Integrations
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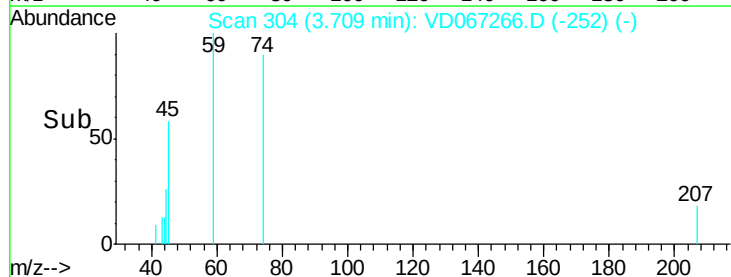
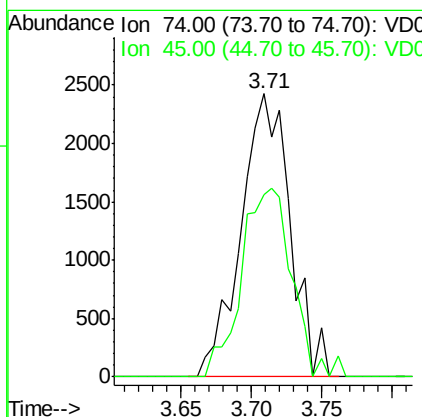
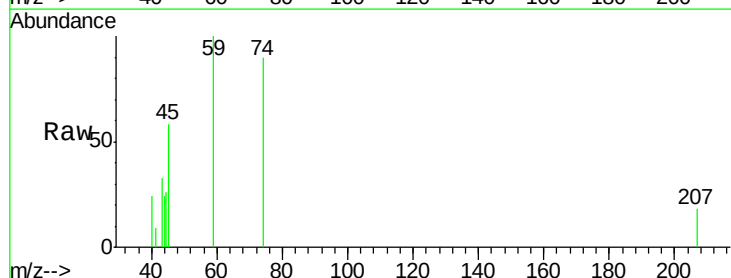
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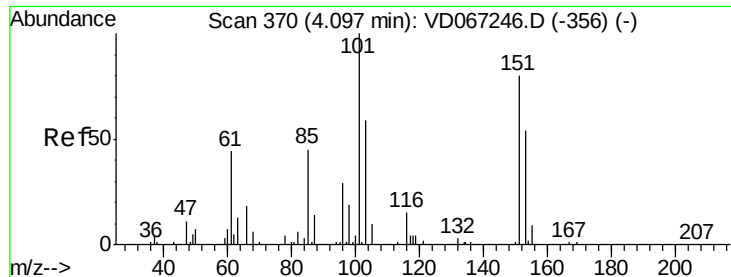


#8

Diethyl Ether
 Concen: 4.694 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.01 min
 Lab File: VD067266.D
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		5926		
45	67.3	37.0	111.1		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.610 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

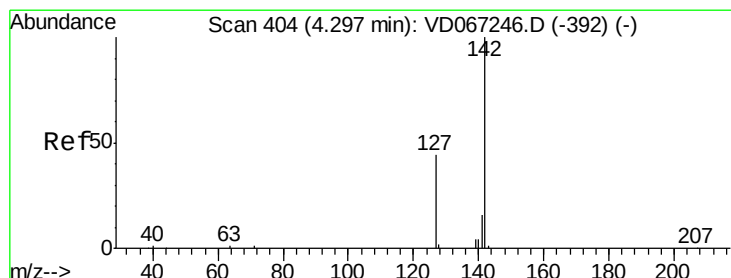
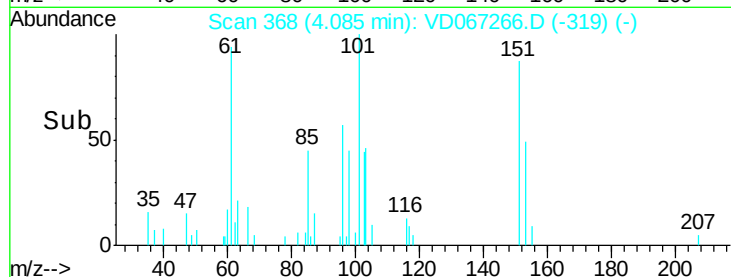
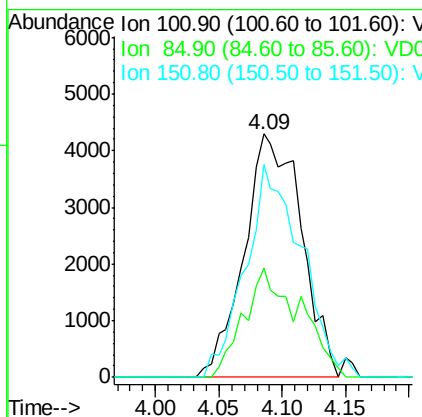
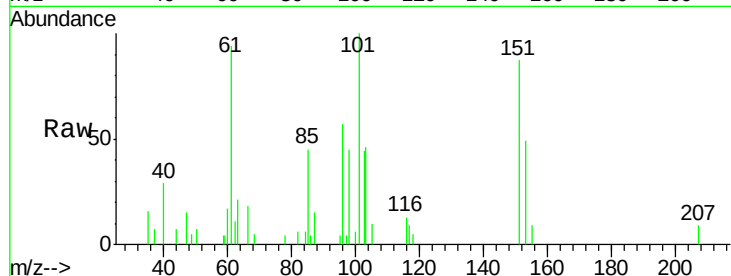
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	101	Resp:	13512
Ion Ratio	Lower	Upper	
101	100		
85	32.2	34.2	51.4#
151	85.7	66.3	99.5

Manual Integrations
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#10

Methyl Iodide

Concen: 4.129 ug/l

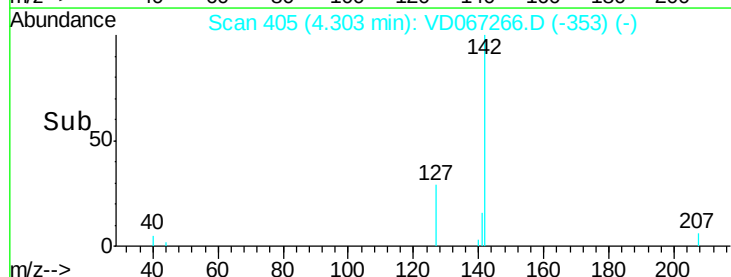
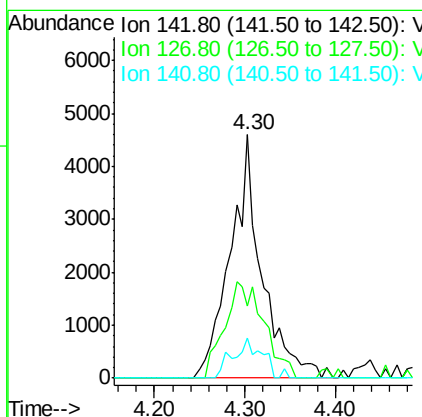
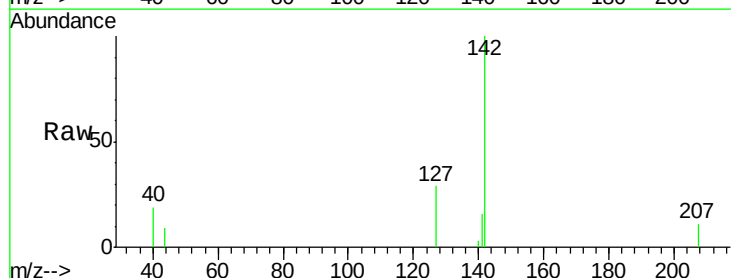
RT: 4.30 min Scan# 405

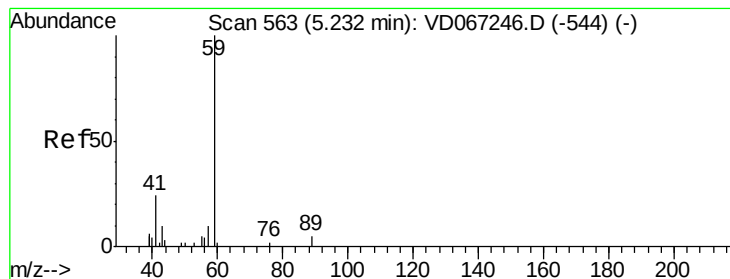
Delta R.T. 0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion:	142	Resp:	11163
Ion Ratio	Lower	Upper	
142	100		
127	48.8	38.4	57.6
141	14.3	11.6	17.4





#11

Tert butyl alcohol

Concen: 36.833 ug/l m

RT: 5.22 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 59 Resp: 8503

Ion Ratio Lower Upper

59 100

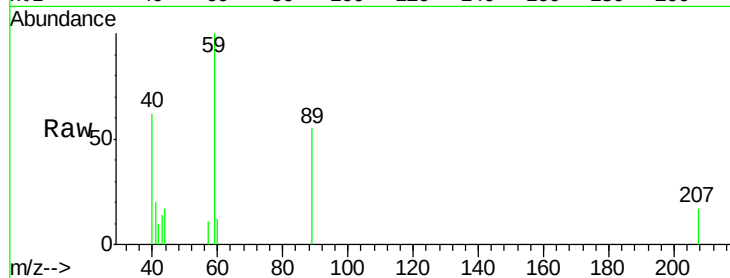
57 0.0 5.1 7.7#

Manual Integrations

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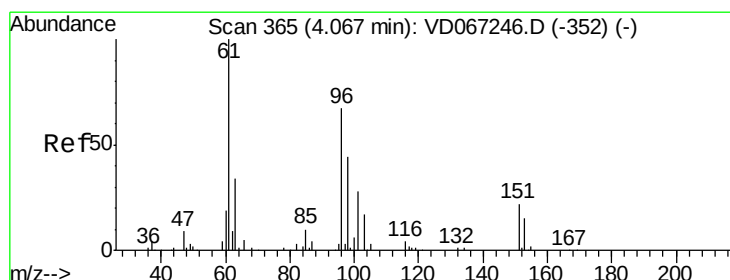
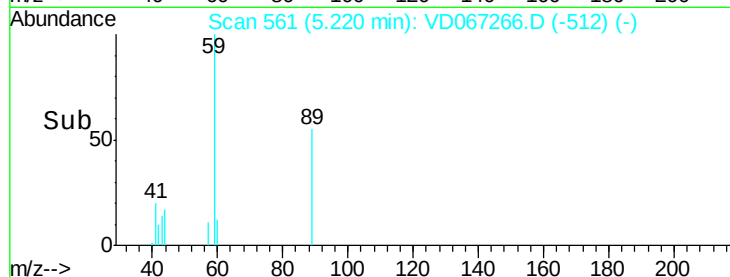
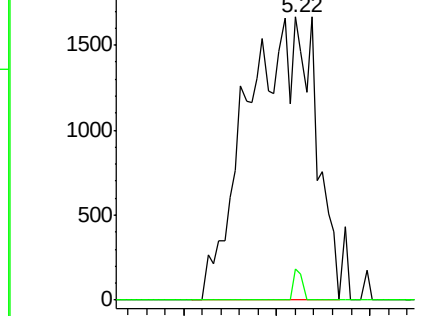
MMDadoda

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Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#12

1,1-Dichloroethene

Concen: 4.669 ug/l

RT: 4.07 min Scan# 365

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

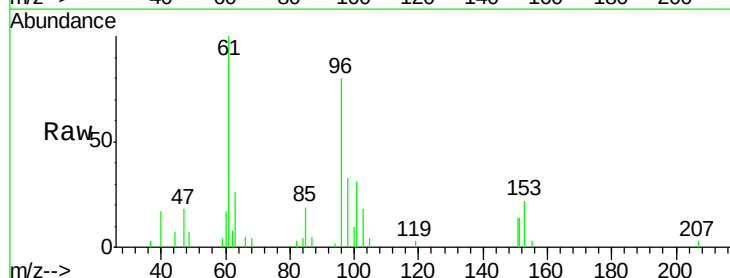
Tgt Ion: 96 Resp: 12225

Ion Ratio Lower Upper

96 100

61 124.7 118.6 177.8

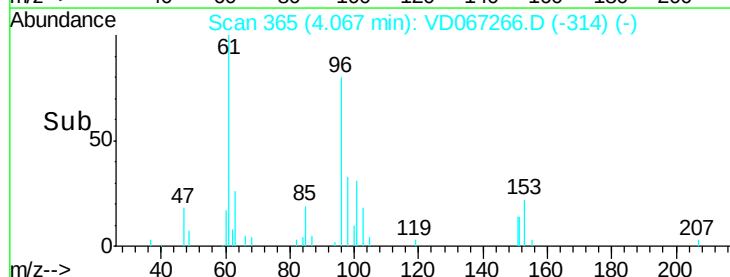
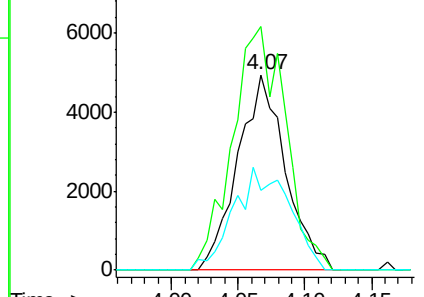
98 40.8 51.8 77.6#

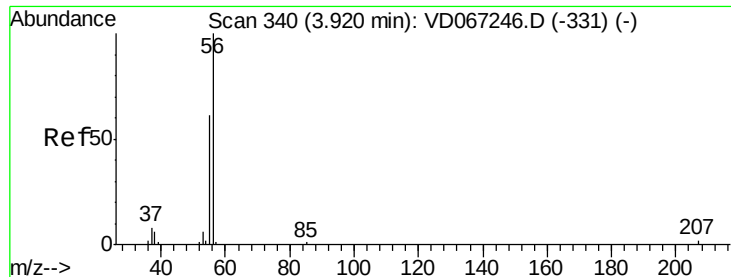


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#13

Acrolein

Concen: 17.947 ug/l

RT: 3.92 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 2952

Ion Ratio Lower Upper

56 100

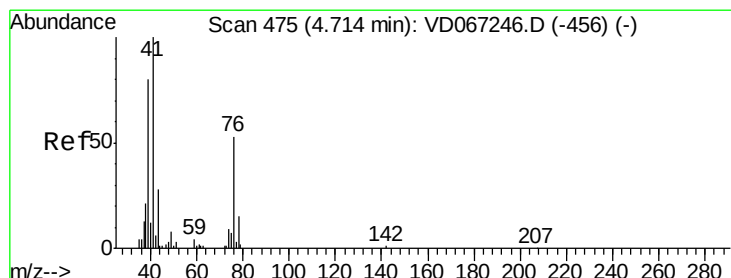
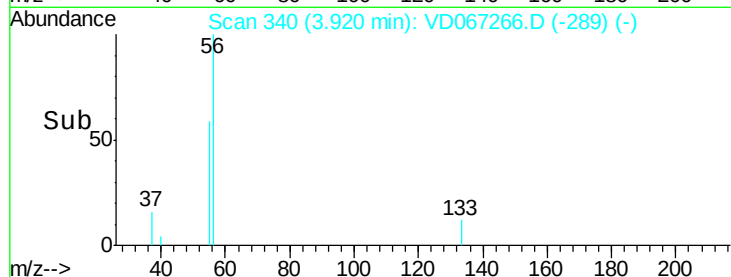
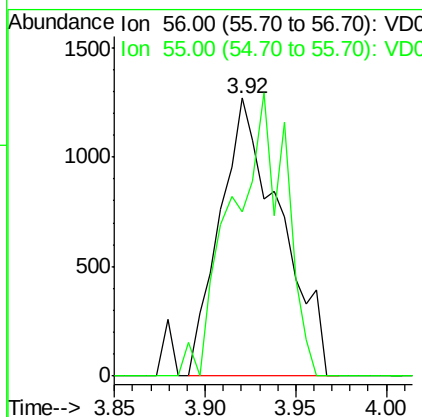
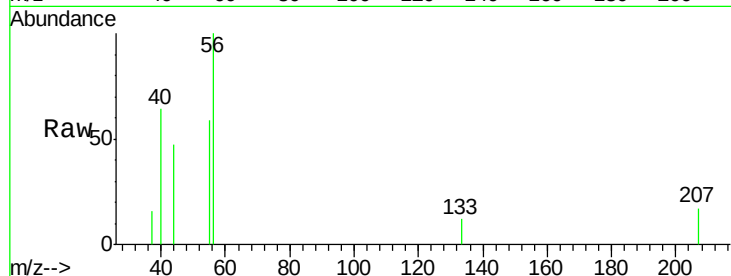
55 90.0 56.0 84.0#

Manual Integrations

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#14

Allyl chloride

Concen: 4.152 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

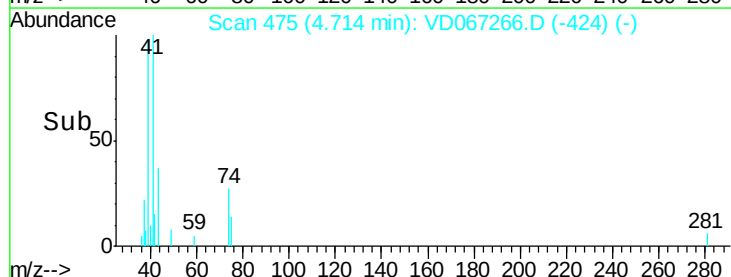
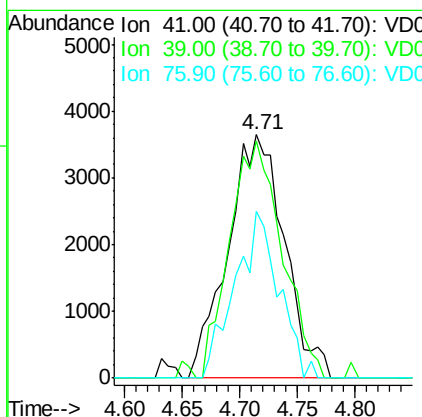
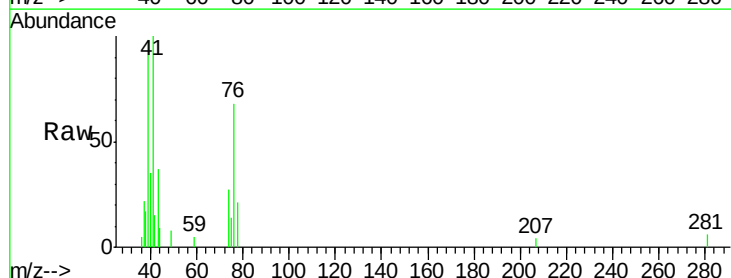
Tgt Ion: 41 Resp: 12451

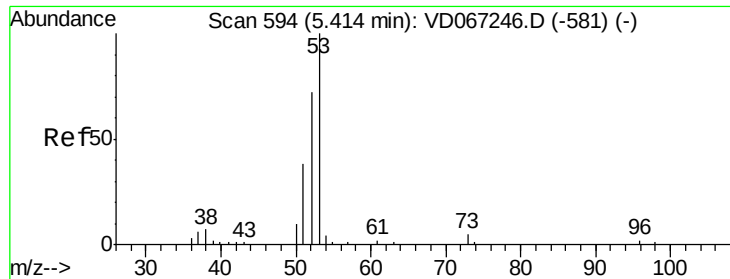
Ion Ratio Lower Upper

41 100

39 90.2 63.8 95.6

76 52.7 40.4 60.6





#15

Acrylonitrile

Concen: 23.471 ug/l

RT: 5.43 min Scan# 596

Delta R.T. 0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

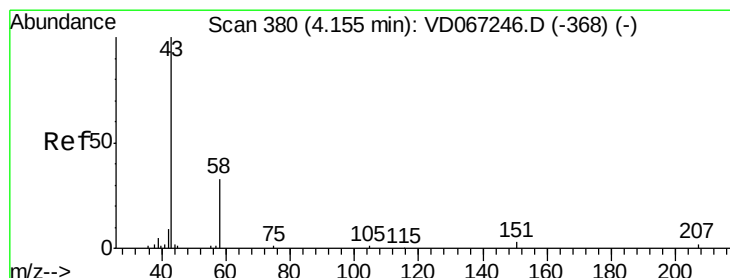
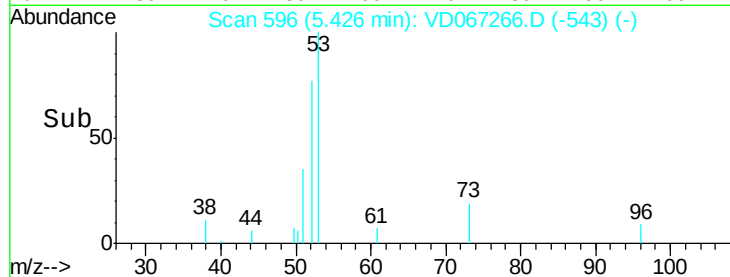
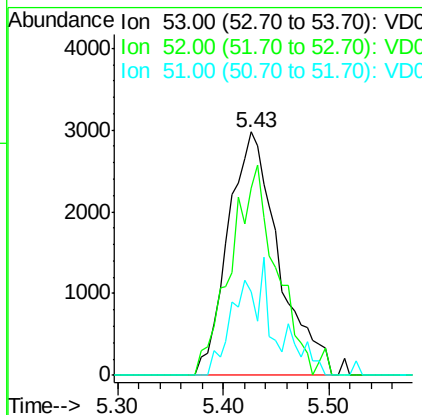
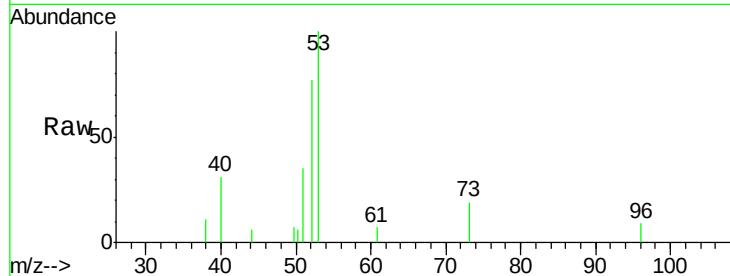
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	53	Resp:	9887
Ion	Ratio	Lower	Upper
53	100		
52	77.3	65.6	98.4
51	19.7	30.8	46.2#

Manual Integrations
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#16

Acetone

Concen: 25.091 ug/l

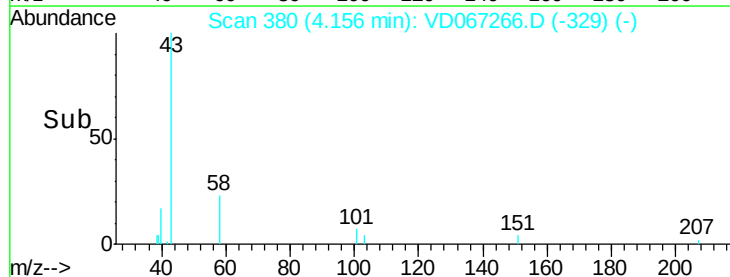
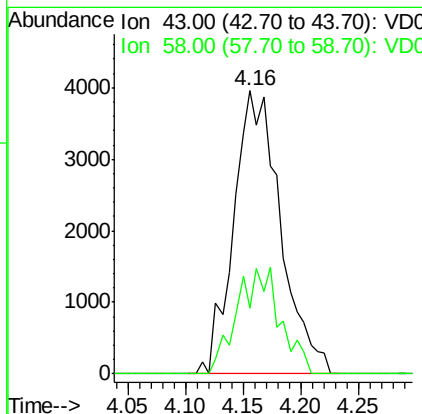
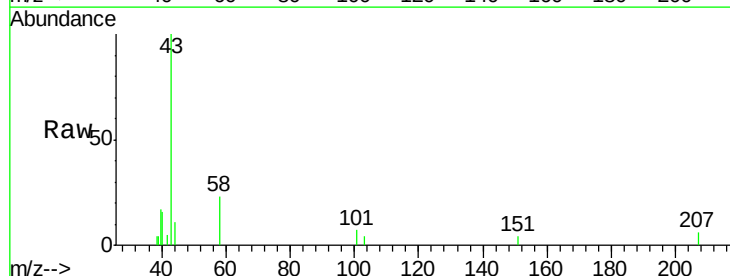
RT: 4.16 min Scan# 380

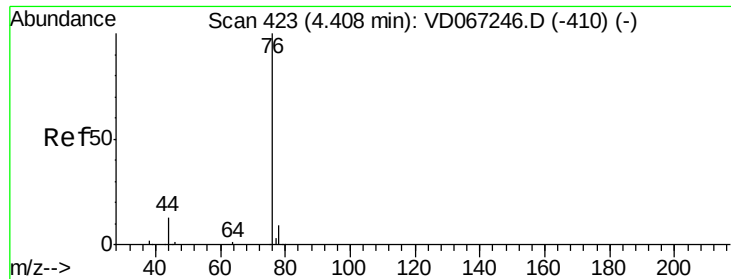
Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion:	43	Resp:	11170
Ion	Ratio	Lower	Upper
43	100		
58	23.5	26.1	39.1#





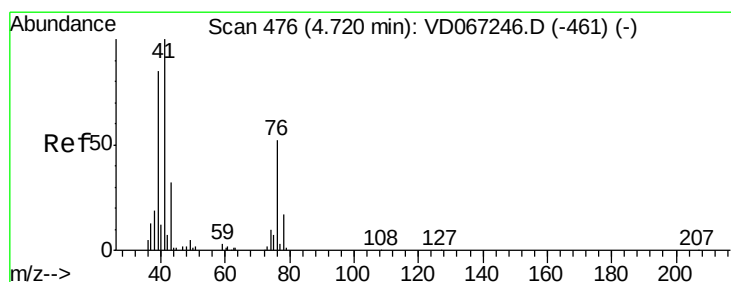
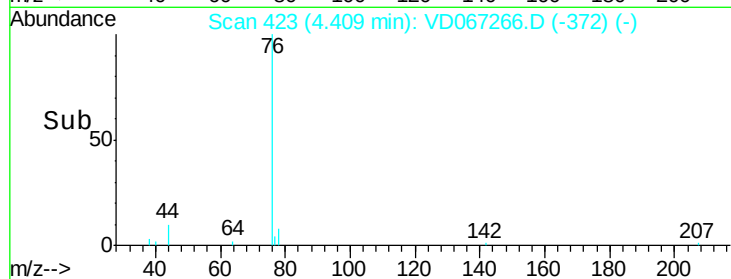
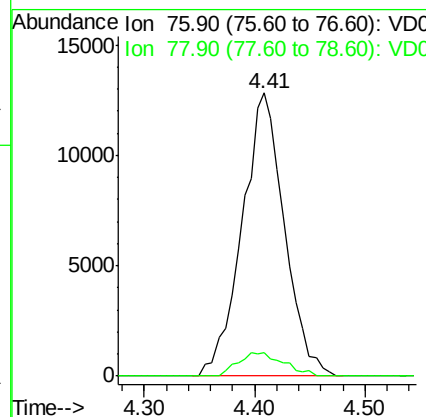
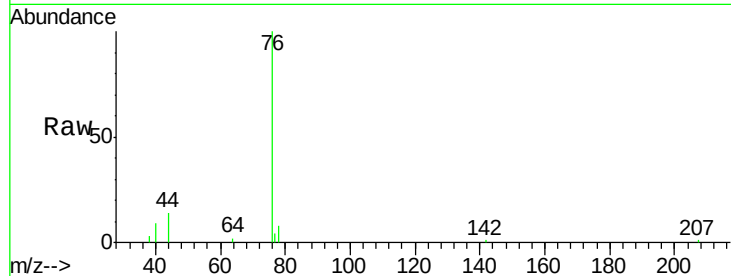
#17
Carbon Disulfide
Concen: 4.625 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 34523
Ion Ratio Lower Upper
76 100
78 8.2 7.4 11.0

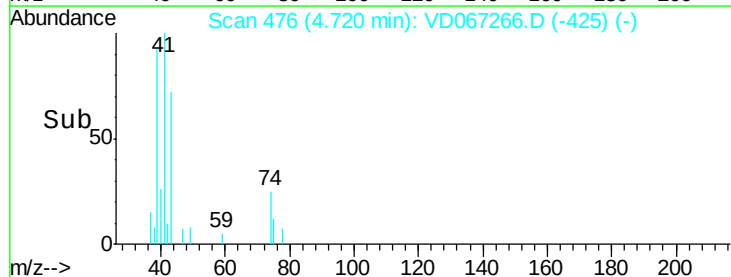
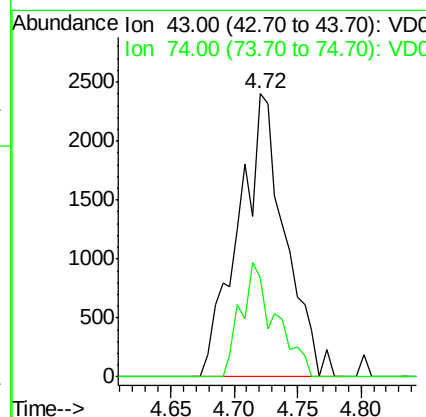
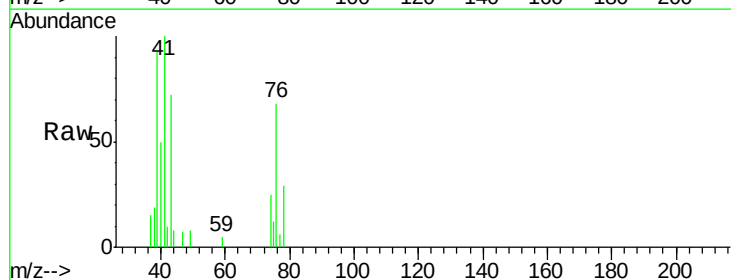
Manual Integrations
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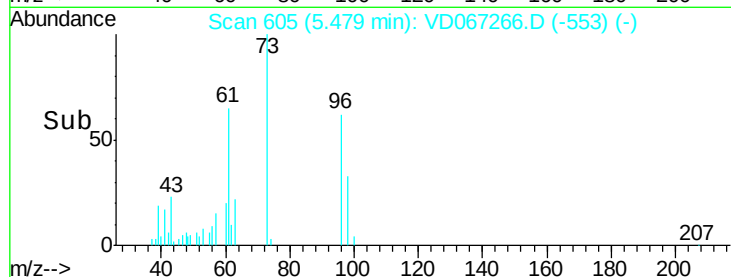
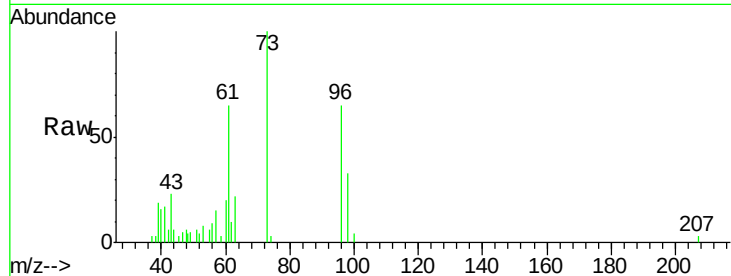
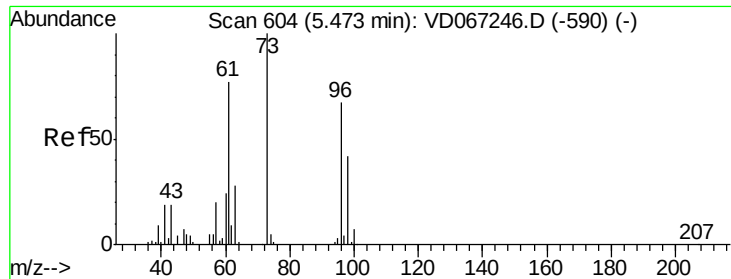
MMDadoda
10/15/2020 12:18:50 PM



#18
Methyl Acetate
Concen: 6.015 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 43 Resp: 6108
Ion Ratio Lower Upper
43 100
74 30.1 26.6 39.8





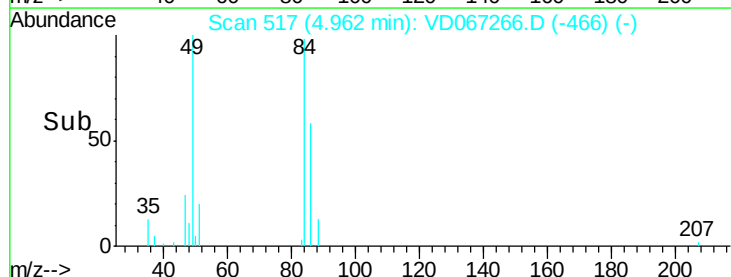
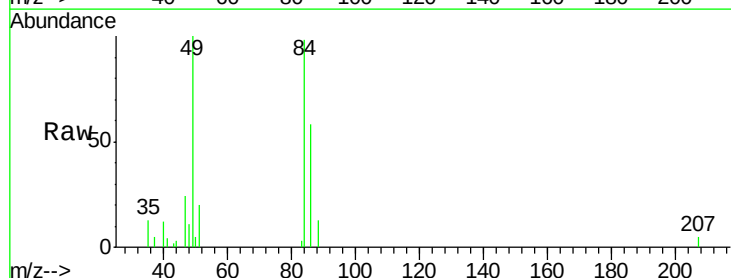
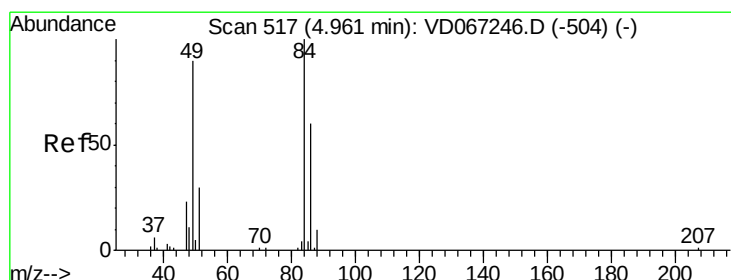
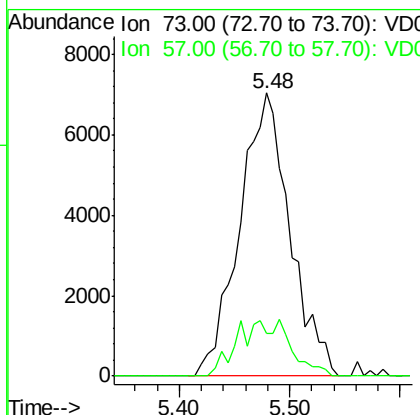
#19
Methyl tert-butyl Ether
Concen: 4.324 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tot Ion: 73 Resp: 22517
Ion Ratio Lower Upper
73 100
57 15.3 15.7 23.5#

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

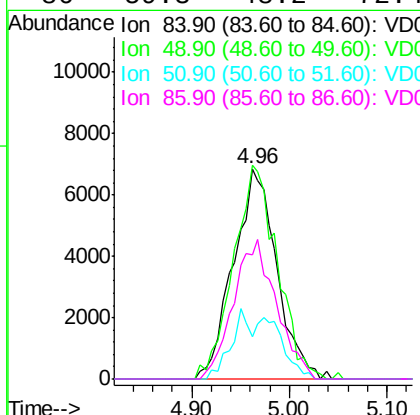
Manual Integrations
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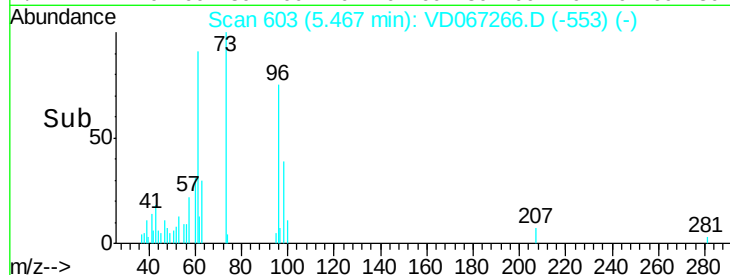
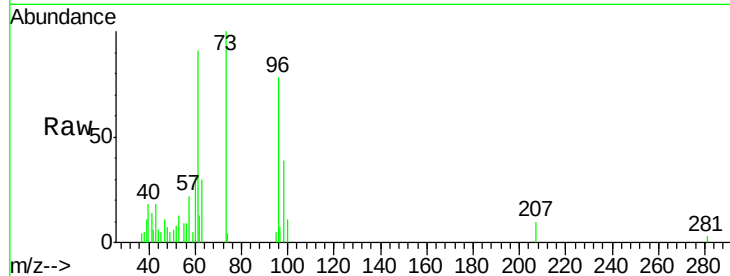
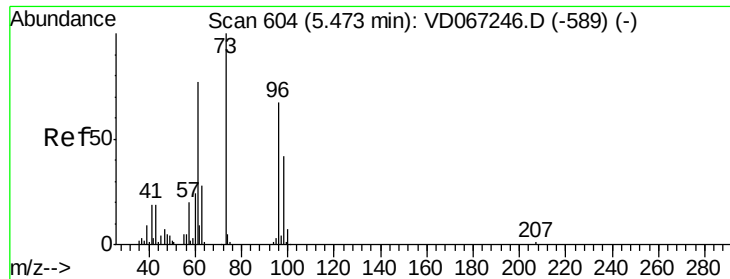
MMDadoda
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#20
Methylene Chloride
Concen: 6.314 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 84 Resp: 21196
Ion Ratio Lower Upper
84 100
49 101.6 72.2 108.2
51 20.3 23.8 35.8#
86 59.3 48.2 72.4





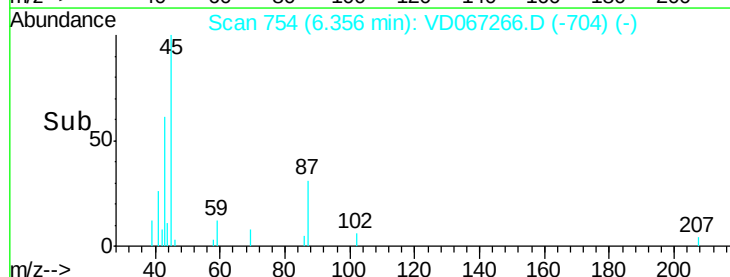
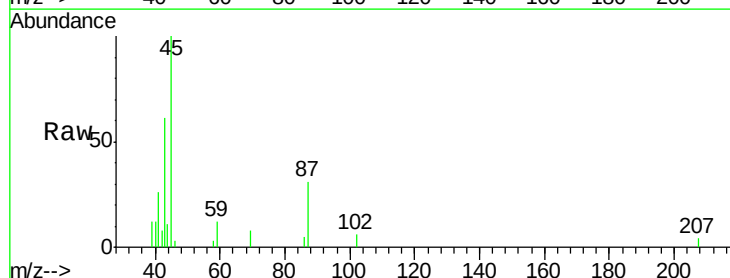
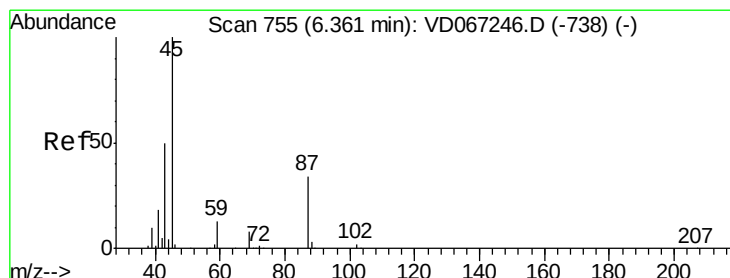
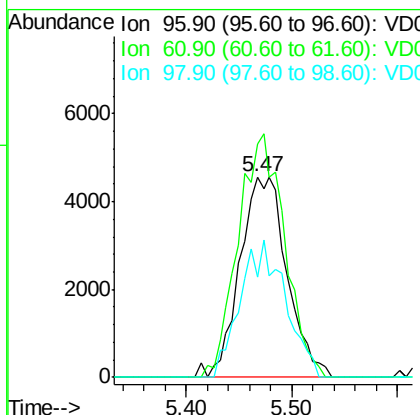
#21
trans-1,2-Dichloroethene
Concen: 4.693 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.3	92.0	138.0
98	49.9	49.8	74.8

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

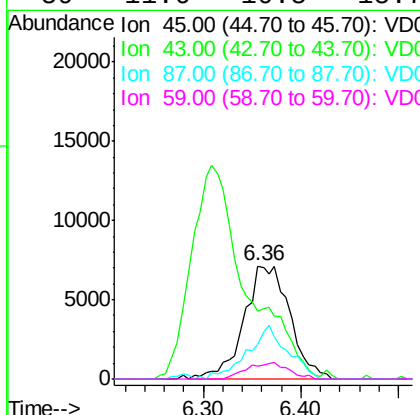
Manual Integrations
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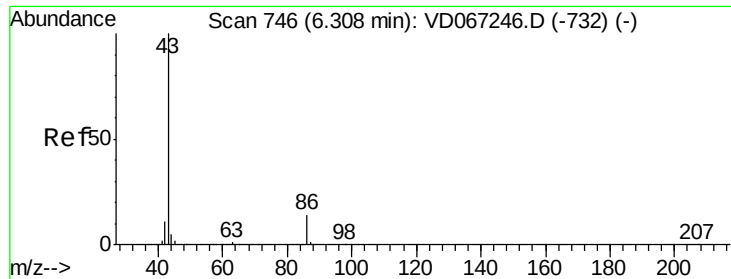
MMDadoda
10/15/2020 12:18:50 PM



#22
Diisopropyl ether
Concen: 4.276 ug/l
RT: 6.36 min Scan# 754
Delta R.T. -0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.6	48.0	72.0
87	30.8	28.5	42.7
59	11.6	10.5	15.7





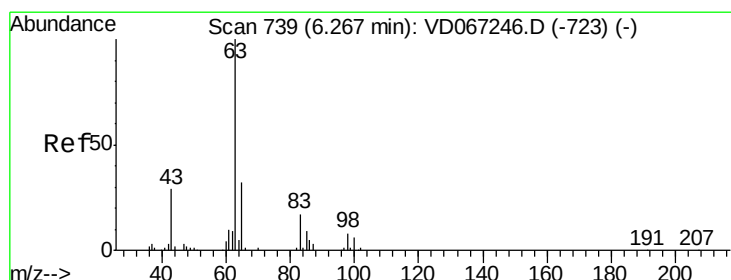
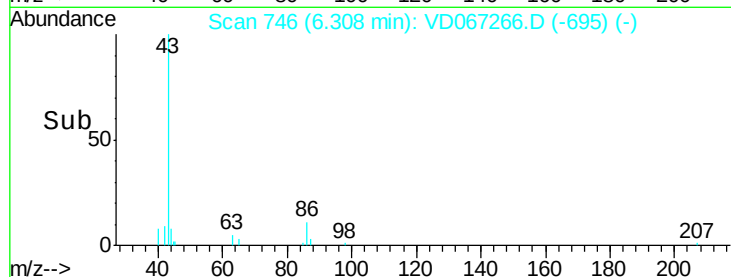
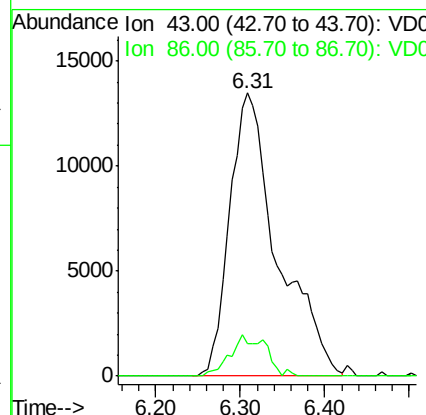
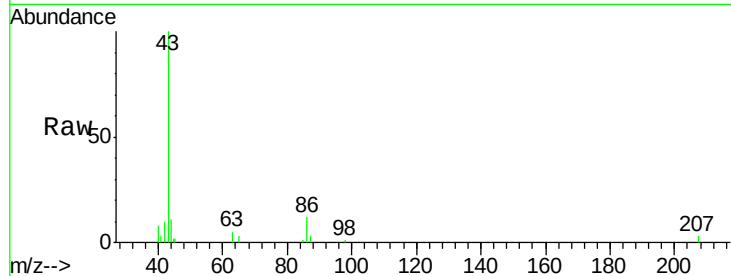
#23
 Vinyl Acetate
 Concen: 16.986 ug/l
 RT: 6.31 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	43	Resp	52938
Ion Ratio	100	Lower	Upper
43	100		
86	11.6	11.0	16.6

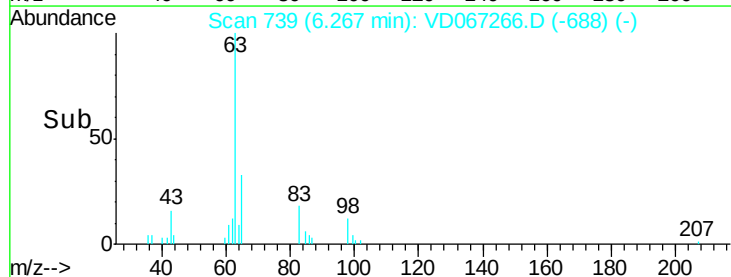
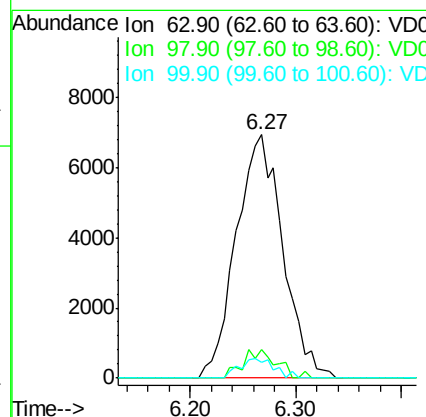
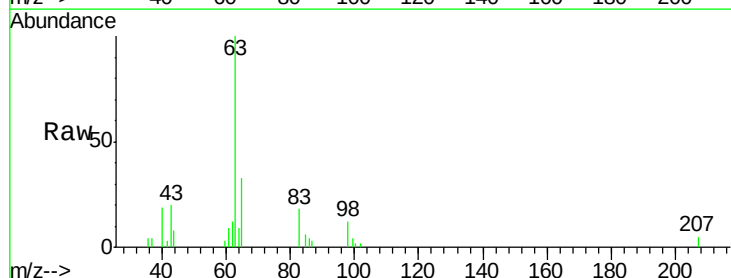
Manual Integrations
 APPROVED

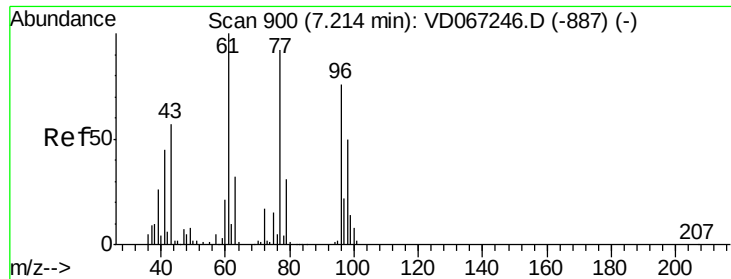
MMDadoda
 10/15/2020 12:18:50 PM



#24
 1,1-Dichloroethane
 Concen: 4.529 ug/l
 RT: 6.27 min Scan# 739
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	63	Resp	21240
Ion Ratio	100	Lower	Upper
63	100		
98	11.8	4.0	12.2
100	6.4	2.8	8.4





#25

2-Butanone

Concen: 24.006 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 12182

Ion Ratio Lower Upper

43 100

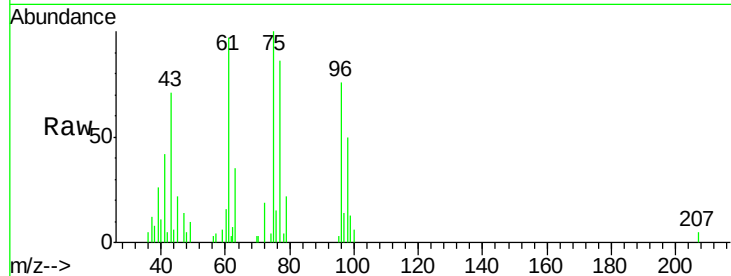
72 27.4 23.7 35.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

6000

5000

4000

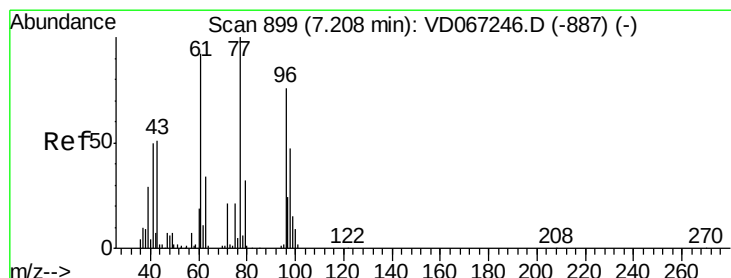
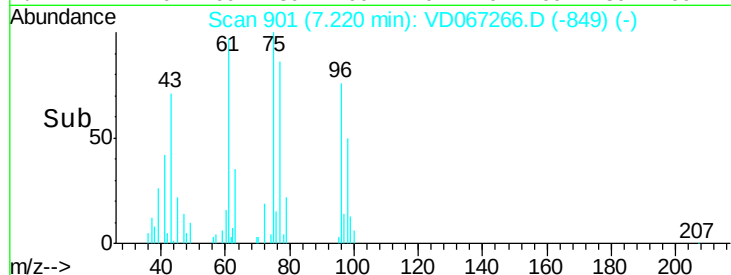
3000

2000

1000

0

Time-->



#26

2,2-Dichloropropane

Concen: 4.608 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD067266.D

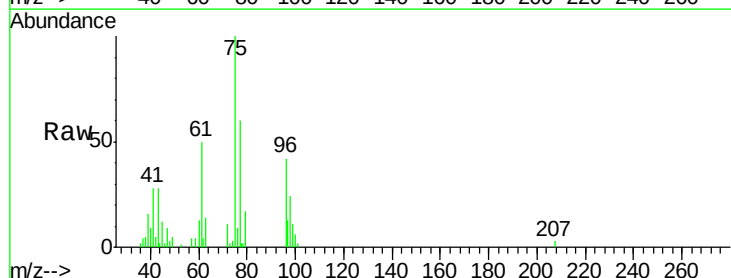
Acq: 14 Oct 2020 12:59

Tgt Ion: 77 Resp: 22273

Ion Ratio Lower Upper

77 100

97 25.1 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

8000

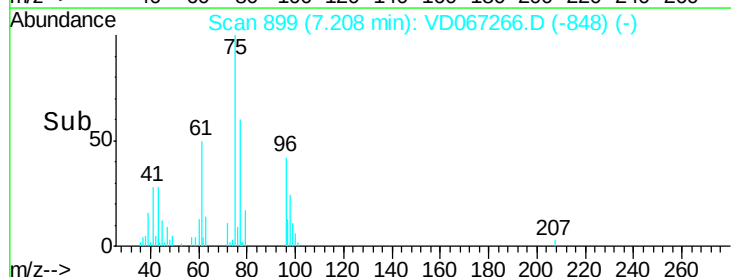
6000

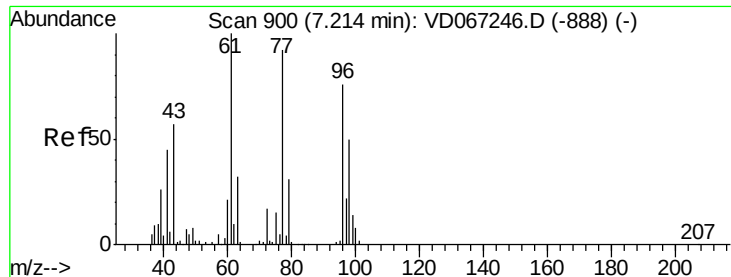
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2000

0

Time-->





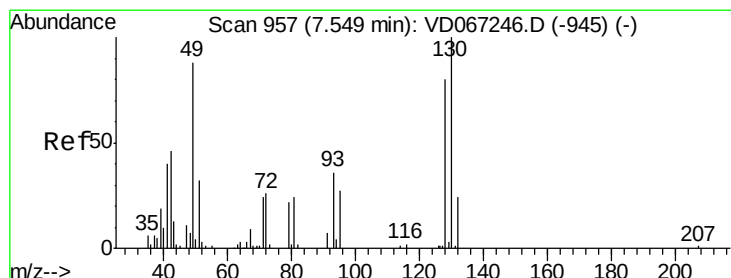
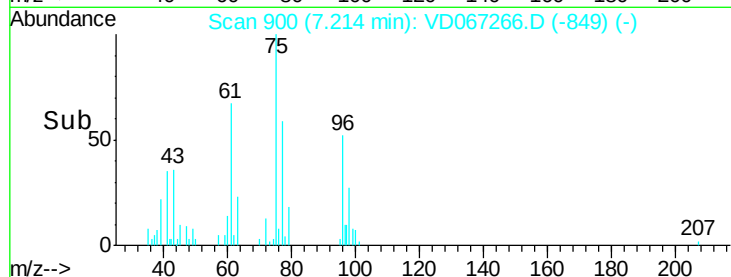
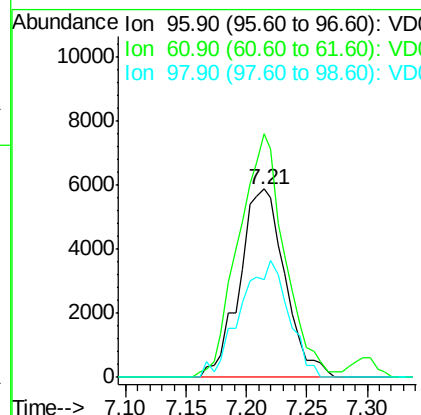
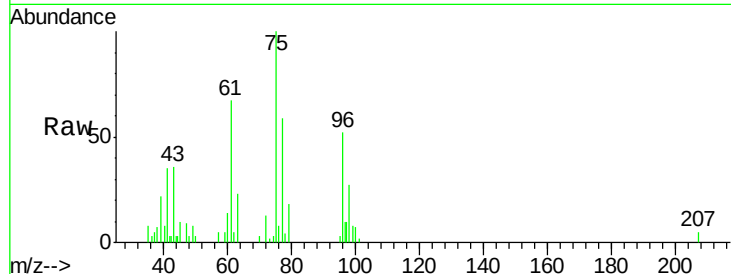
#27
 cis-1,2-Dichloroethene
 Concen: 4.658 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	0.0	255.4
98	65.5	0.0	128.0

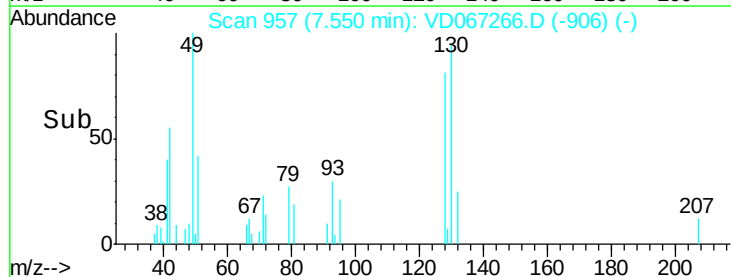
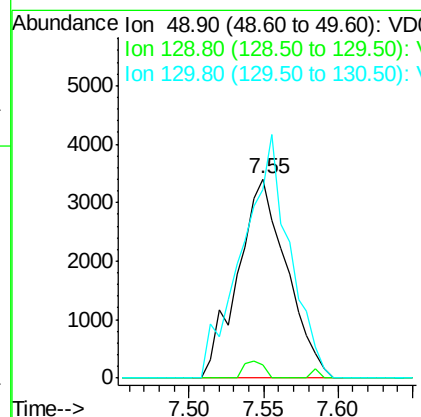
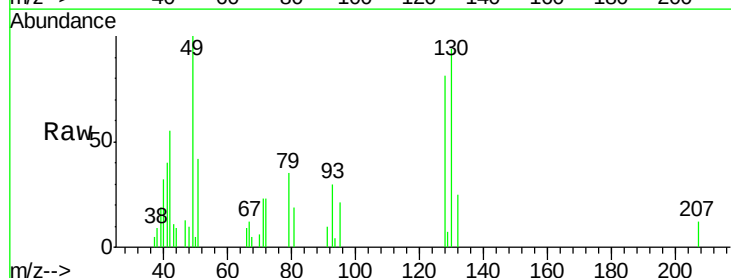
Manual Integrations
 APPROVED

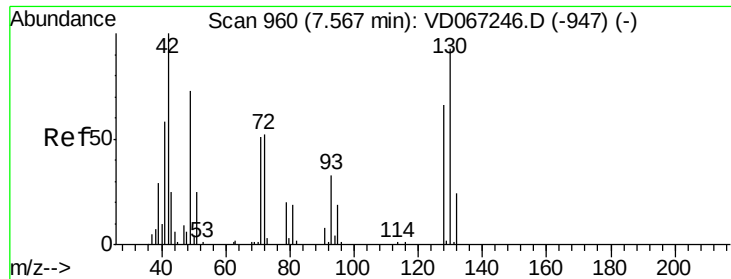
MMDadoda
 10/15/2020 12:18:50 PM



#28
 Bromochloromethane
 Concen: 4.857 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.5	0.0	1.6#
130	117.1	91.0	136.6





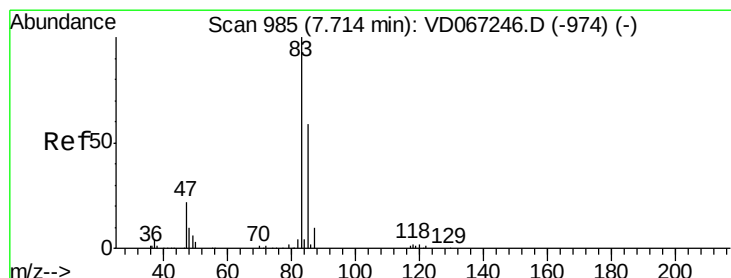
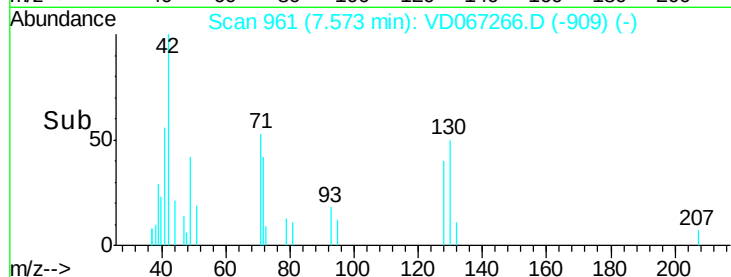
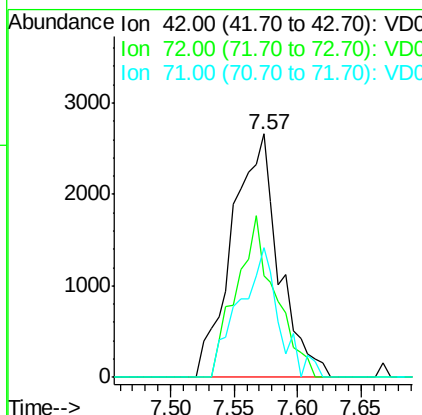
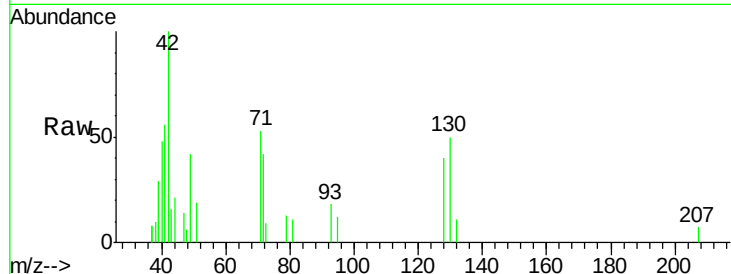
#29
Tetrahydrofuran
Concen: 24.205 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	55.4	43.2	64.8
71	45.5	39.4	59.0

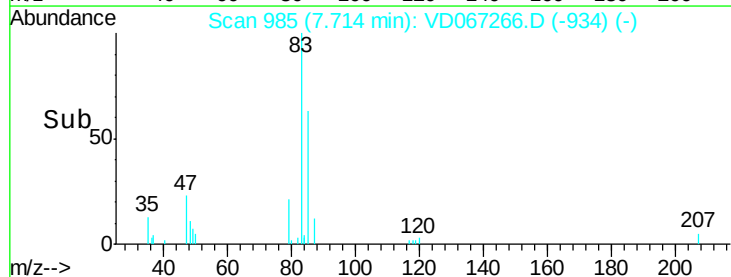
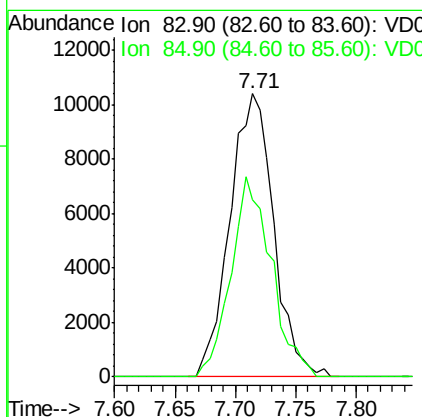
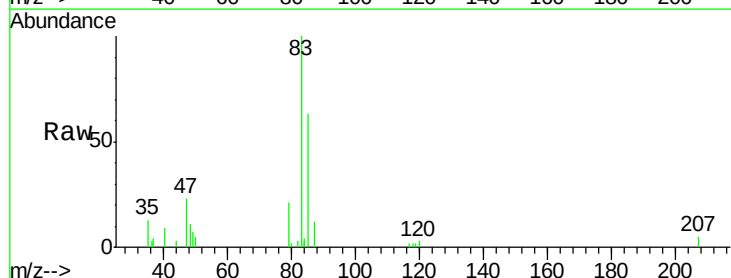
Manual Integrations
APPROVED

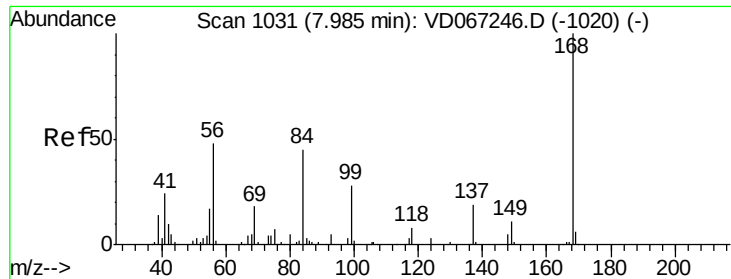
MMDadoda
10/15/2020 12:18:50 PM



#30
Chloroform
Concen: 4.674 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	47.3	70.9





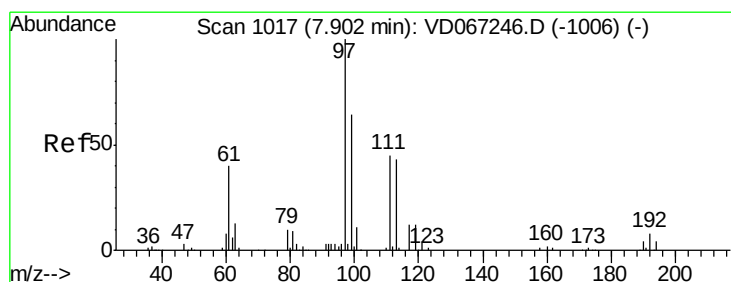
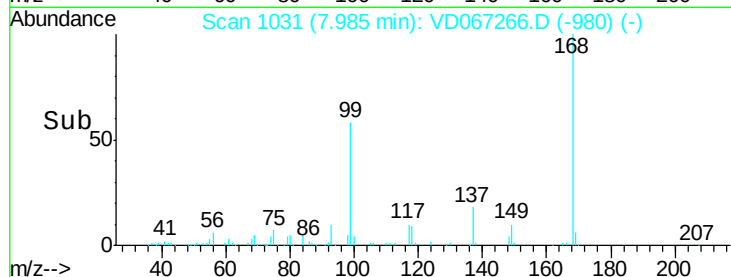
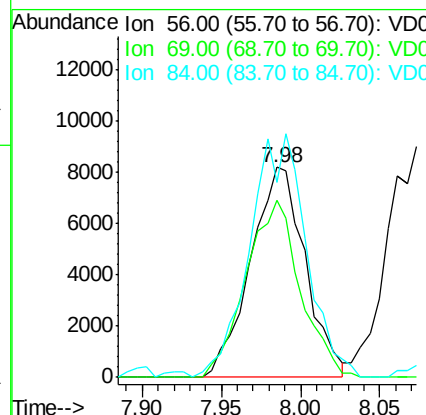
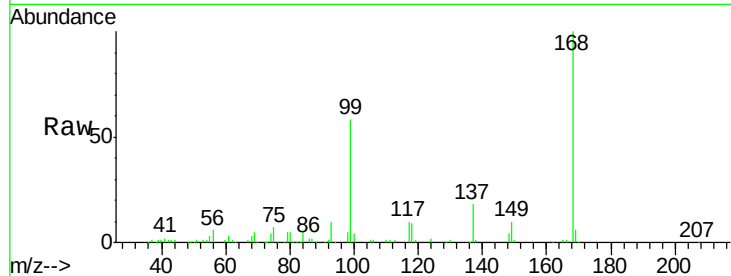
#31
Cyclohexane
Concen: 5.377 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	84.5	29.8	44.6#
84	93.0	76.6	114.8

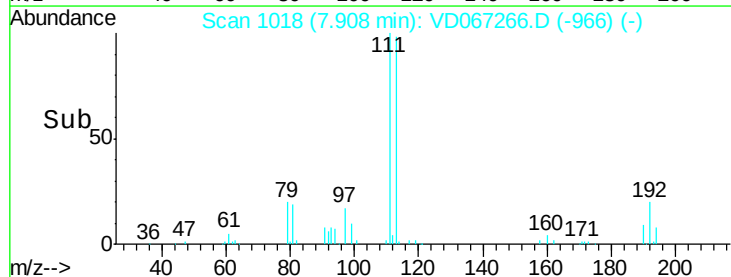
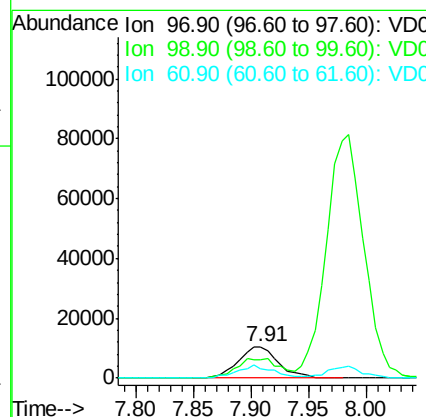
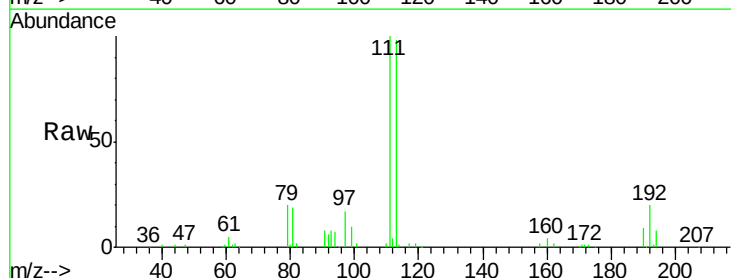
Manual Integrations
APPROVED

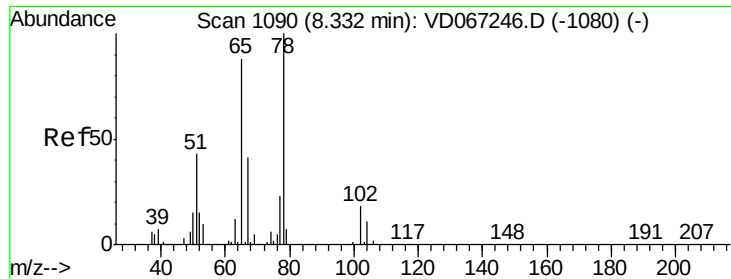
MMDadoda
10/15/2020 12:18:50 PM



#32
1,1,1-Trichloroethane
Concen: 4.627 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.0	50.2	75.4
61	37.4	30.5	45.7





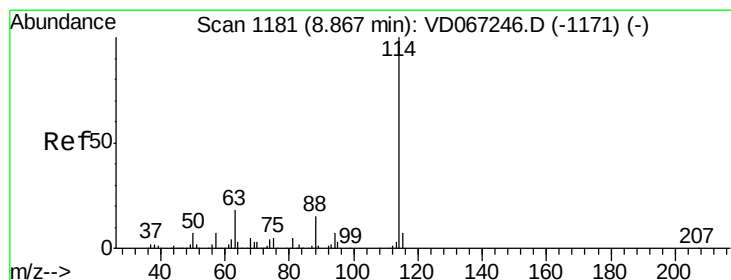
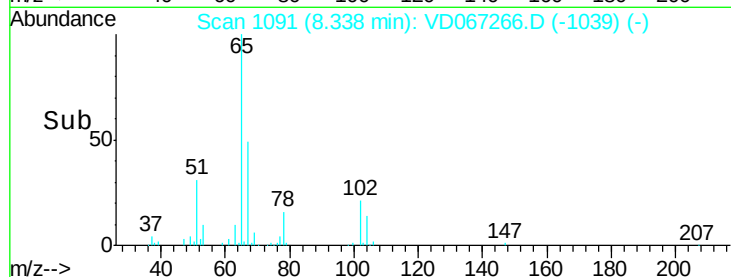
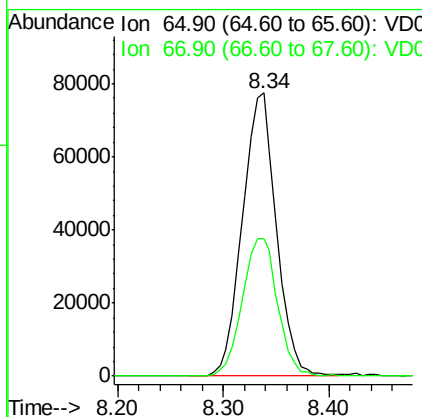
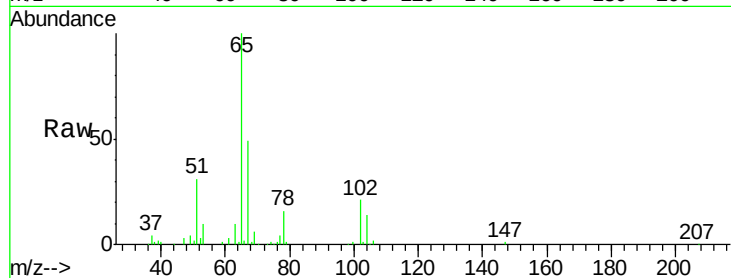
#33
 1,2-Dichloroethane-d4
 Concen: 54.411 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	172958		
67	50.6	0.0	103.8	

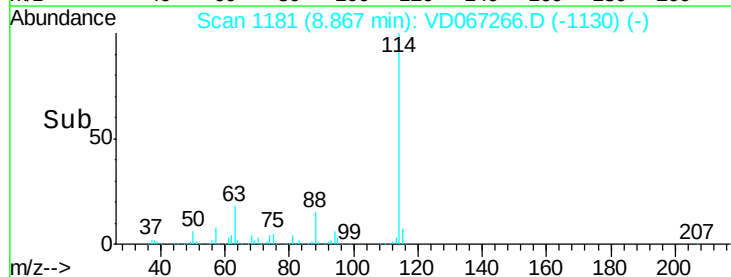
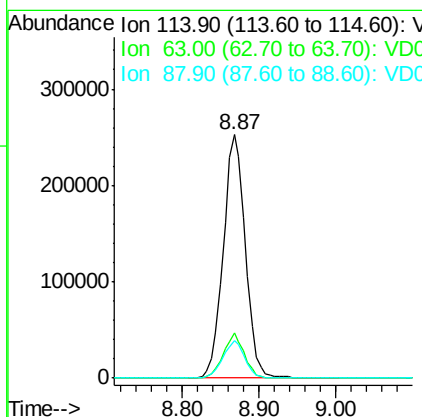
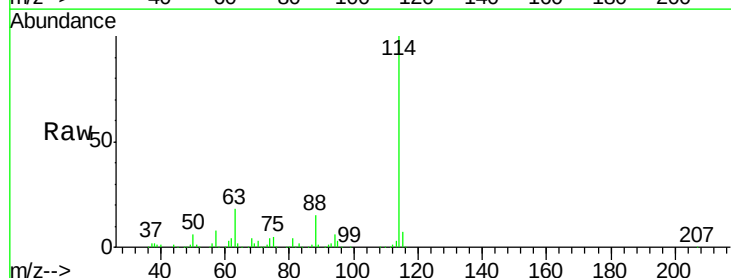
Manual Integrations
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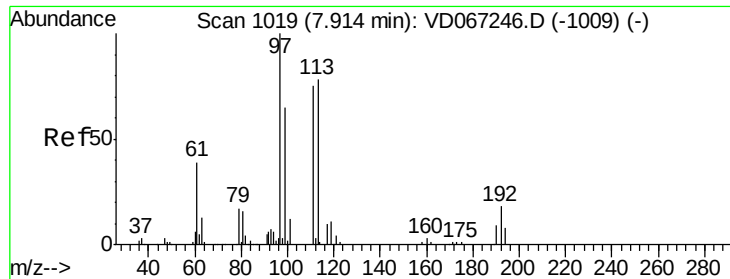
MMDadoda
 10/15/2020 12:18:50 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	502742		
63	18.3	0.0	35.0	
88	15.5	0.0	30.6	





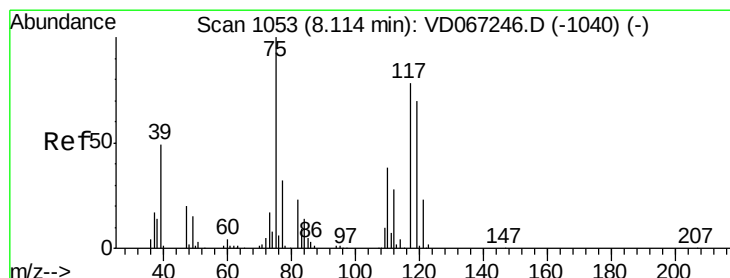
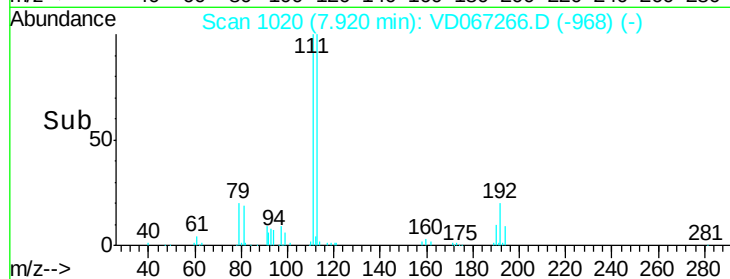
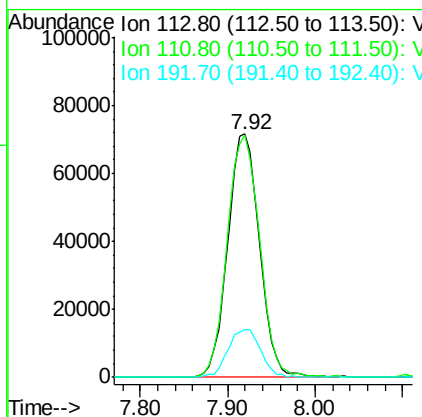
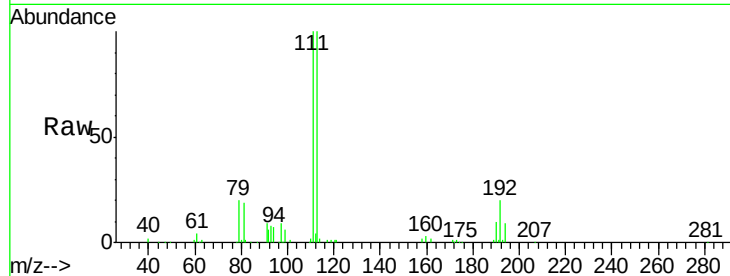
#35
 Dibromofluoromethane
 Concen: 52.807 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.6	122.4
192	20.2	17.0	25.4

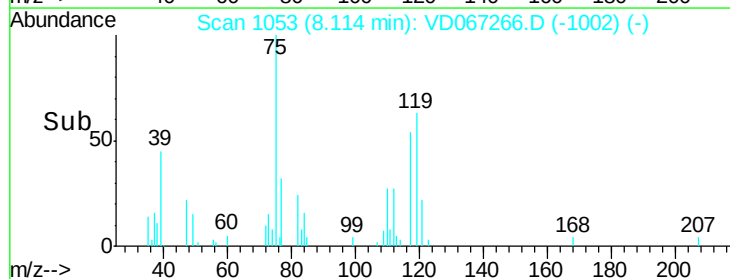
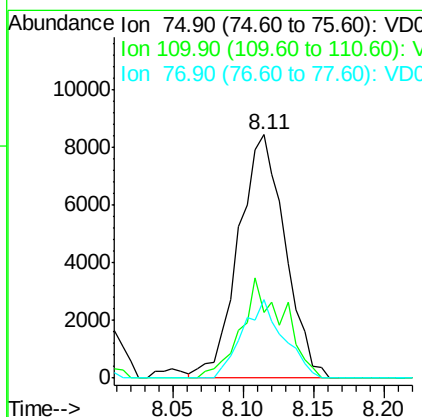
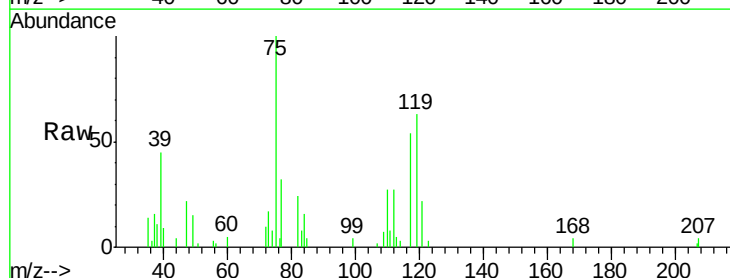
Manual Integrations
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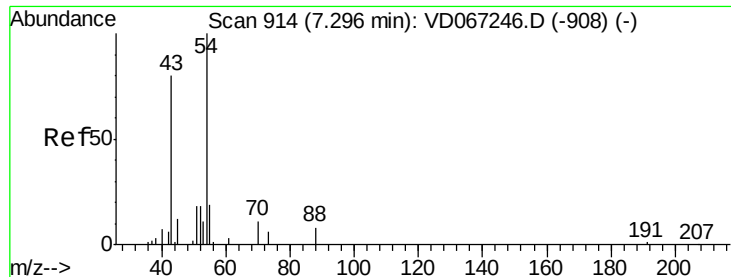
MMDadoda
 10/15/2020 12:18:50 PM



#36
 1,1-Dichloropropene
 Concen: 4.579 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.1	19.6	58.7
77	28.5	24.6	37.0





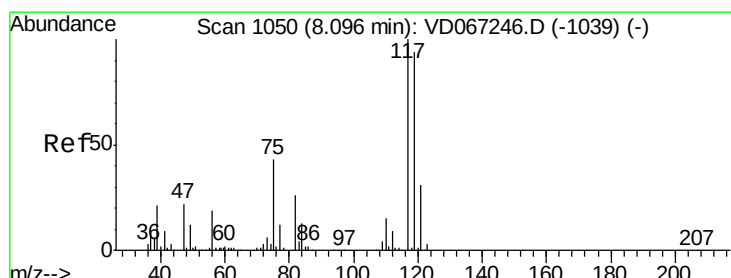
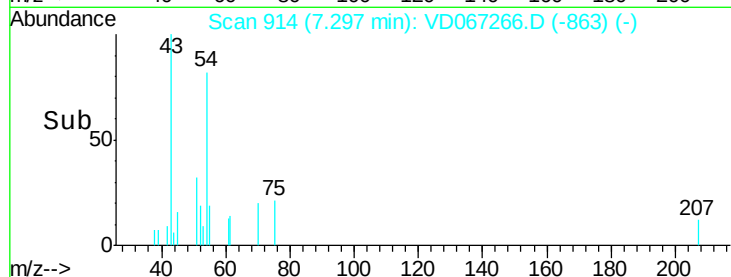
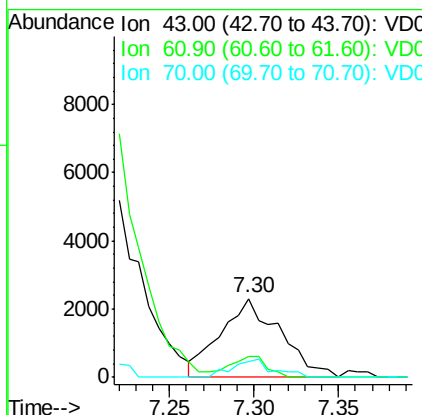
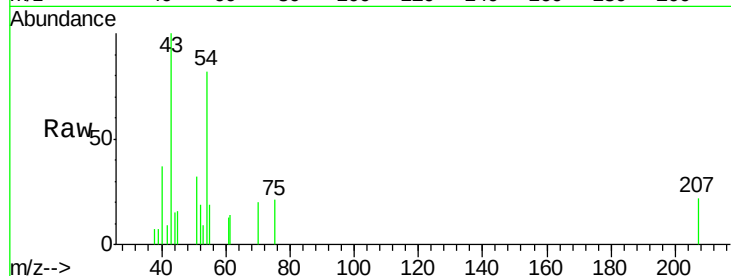
#37
Ethyl Acetate
Concen: 4.500 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	15.6	23.4
70	15.4	10.4	15.6

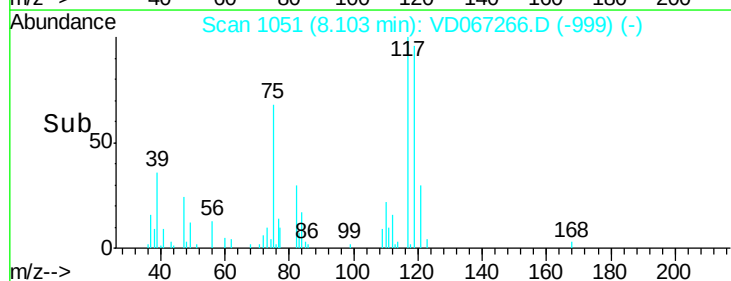
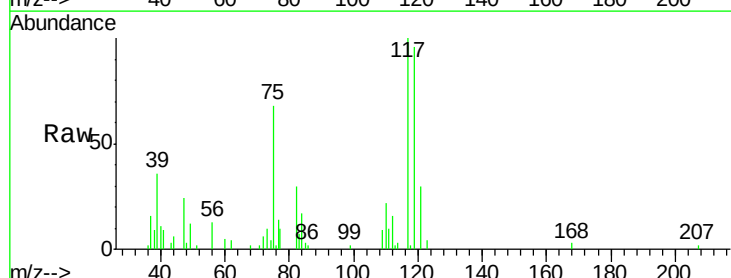
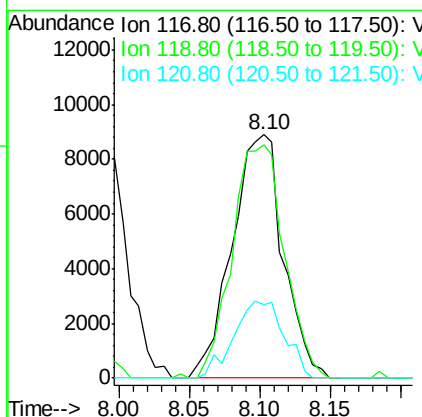
Manual Integrations
APPROVED

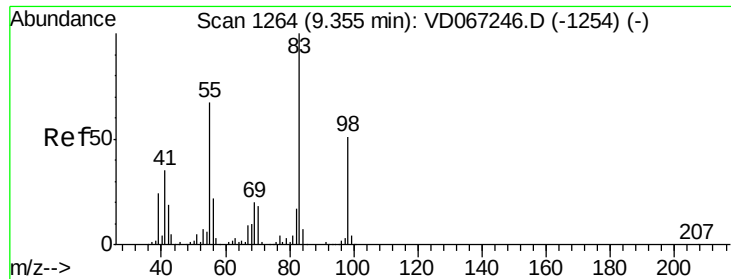
MMDadoda
10/15/2020 12:18:50 PM



#38
Carbon Tetrachloride
Concen: 4.156 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.0	112.4
121	30.1	24.9	37.3





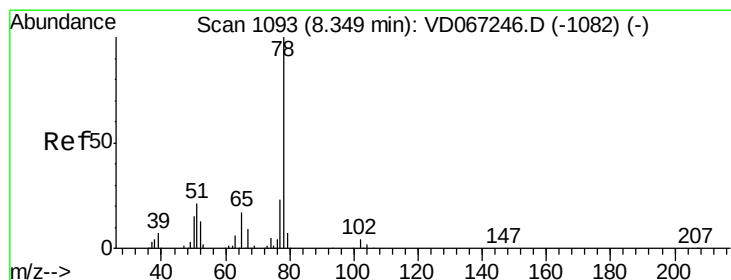
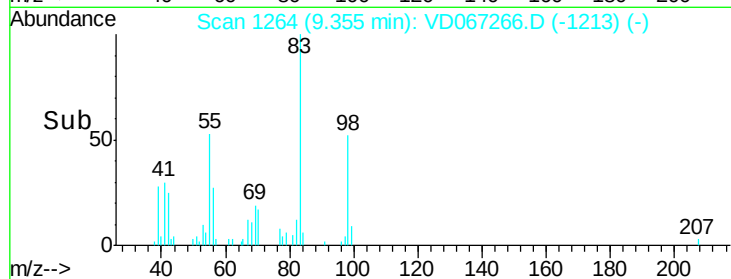
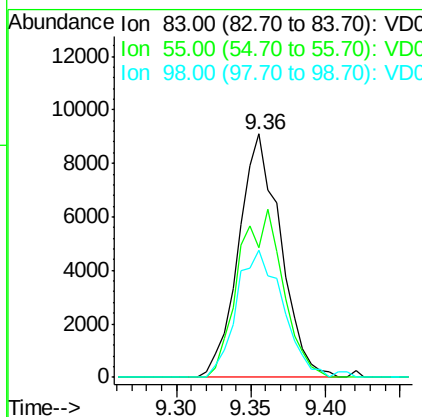
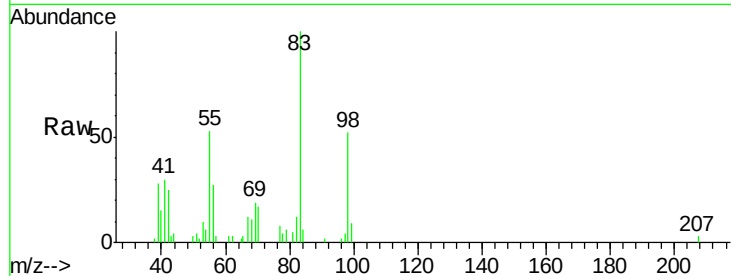
#39
Methylvclclohexane
Concen: 3.983 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	83	Resp	17742
Ion Ratio	Lower	Upper	
83	100		
55	53.5	53.3	79.9
98	52.3	41.0	61.4

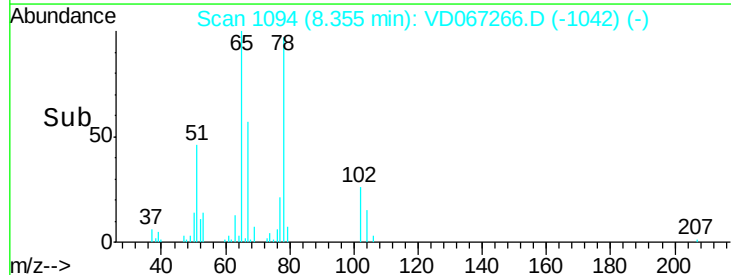
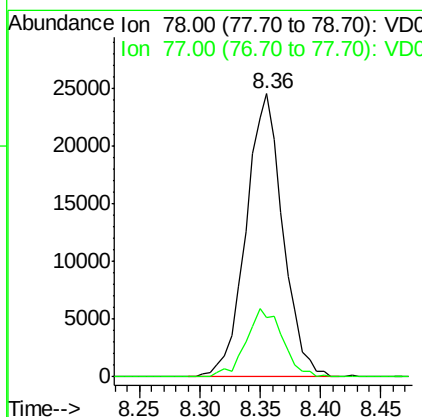
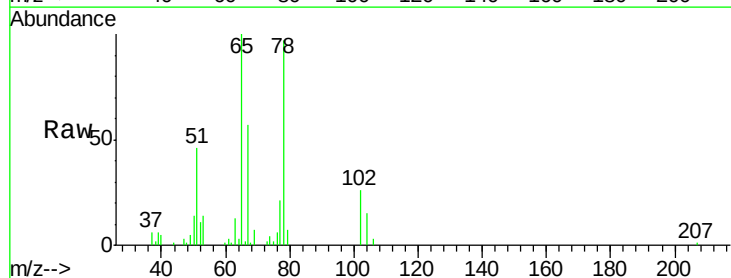
Manual Integrations
APPROVED

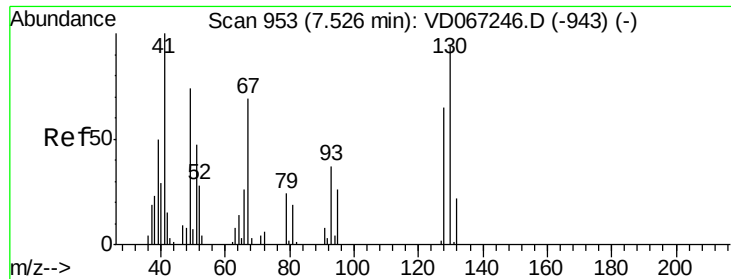
MMDadoda
10/15/2020 12:18:50 PM



#40
Benzene
Concen: 4.467 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	78	Resp	52221
Ion Ratio	Lower	Upper	
78	100		
77	21.1	18.3	27.5





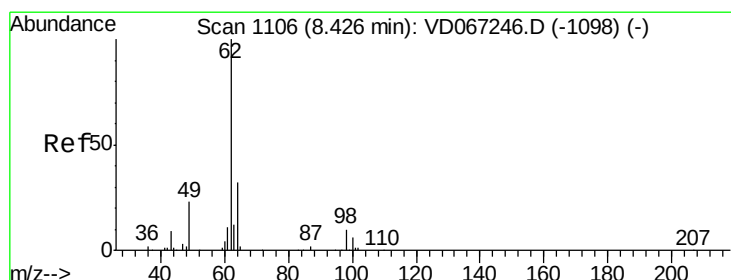
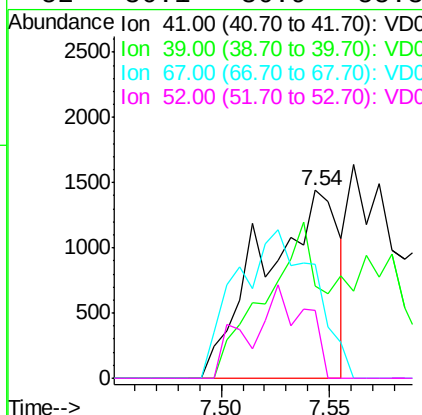
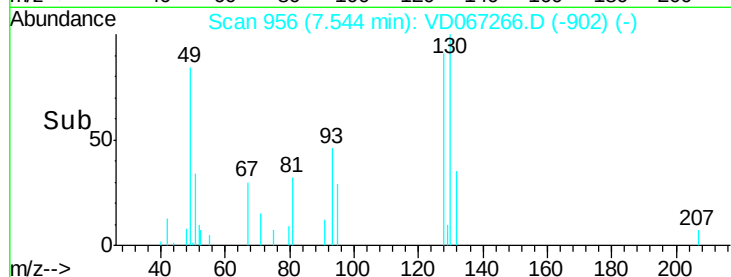
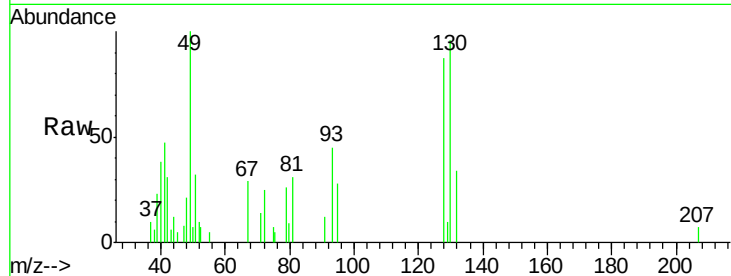
#41
Methacrylonitrile
Concen: 5.233 ug/l m
RT: 7.54 min Scan# 956
Delta R.T. 0.02 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.4	60.0	90.0
67	80.5	88.9	133.3#
52	36.1	36.9	55.3#

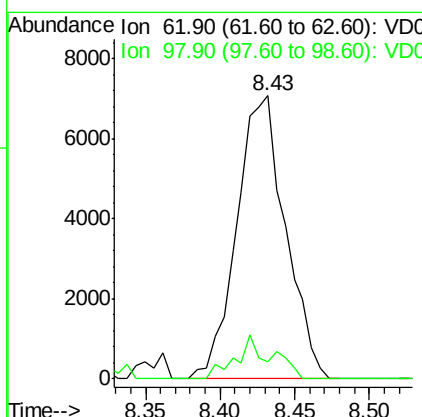
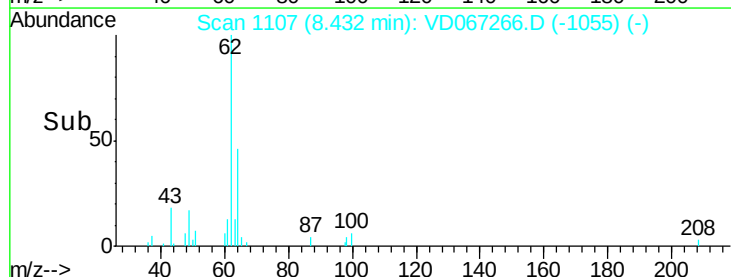
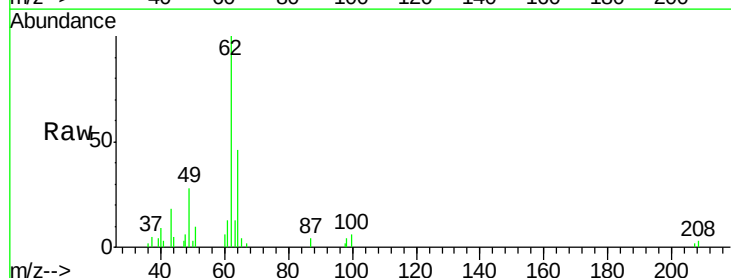
Manual Integrations
APPROVED

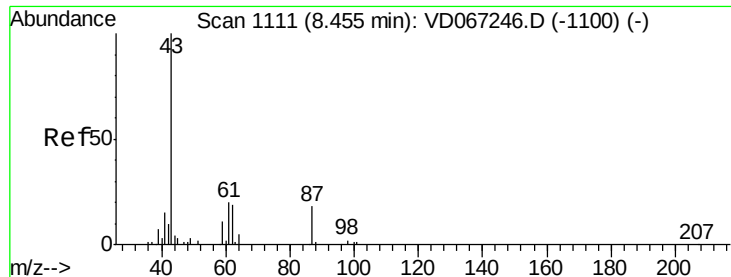
MMDadoda
10/15/2020 12:18:50 PM



#42
1,2-Dichloroethane
Concen: 4.392 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	19.4





#43

Isopropyl Acetate

Concen: 4.354 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

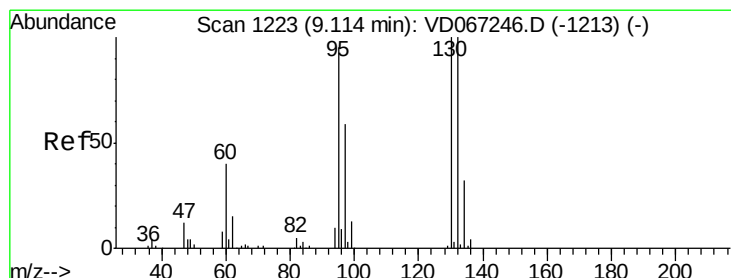
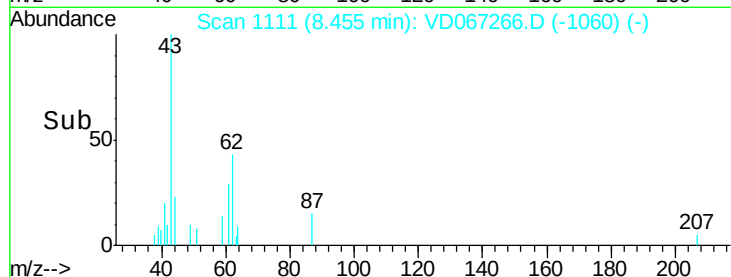
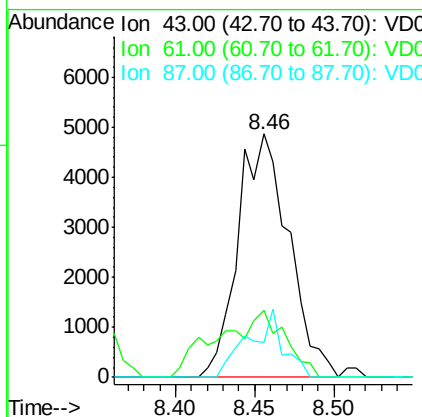
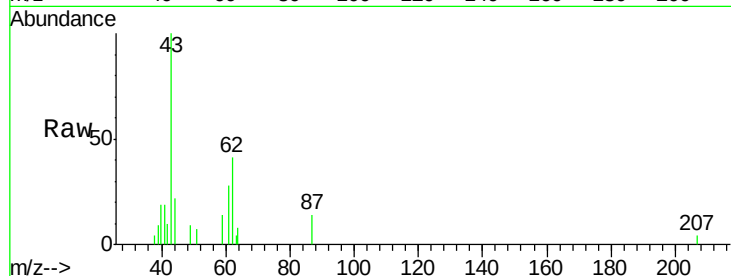
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	43	Resp:	10830
Ion	Ratio	Lower	Upper
43	100		
61	36.4	29.5	44.3
87	18.7	14.2	21.4

Manual Integrations
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MMDadoda
10/15/2020 12:18:50 PM



#44

Trichloroethene

Concen: 4.311 ug/l

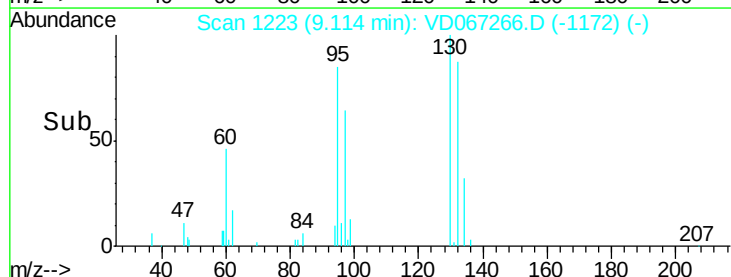
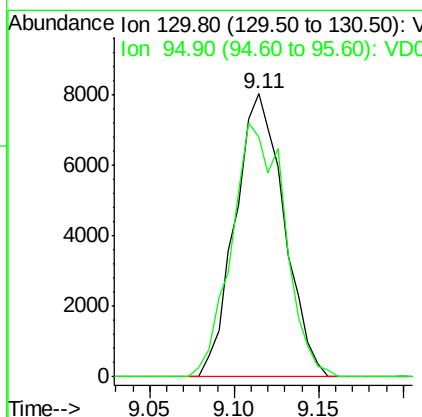
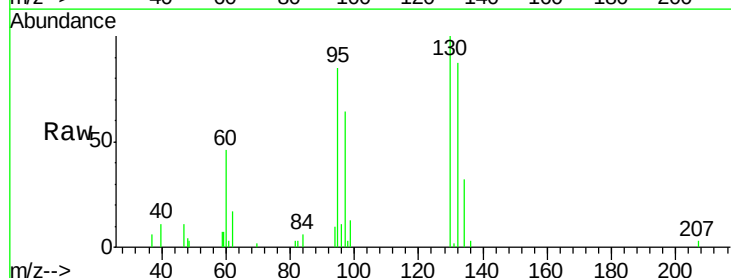
RT: 9.11 min Scan# 1223

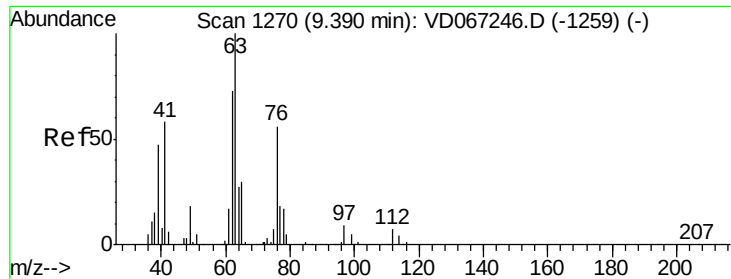
Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion:	130	Resp:	16136
Ion	Ratio	Lower	Upper
130	100		
95	84.9	0.0	190.6





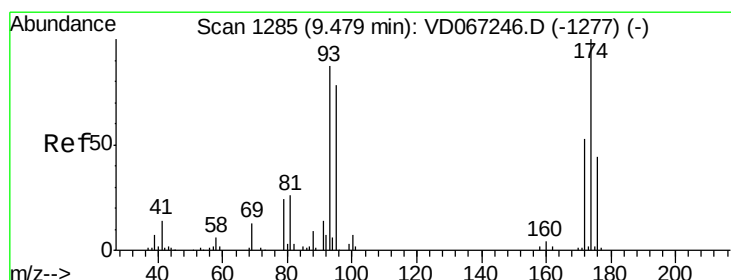
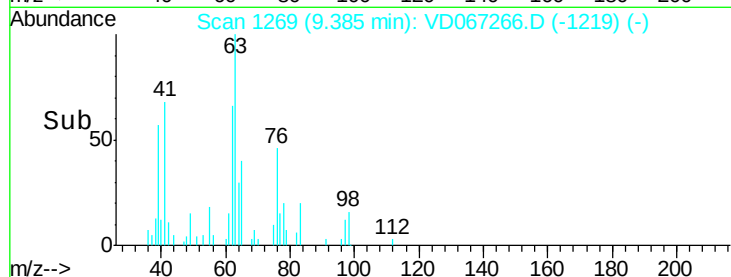
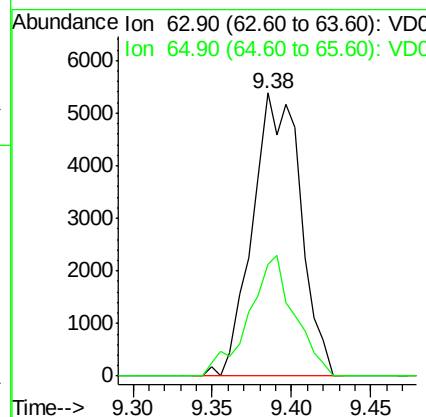
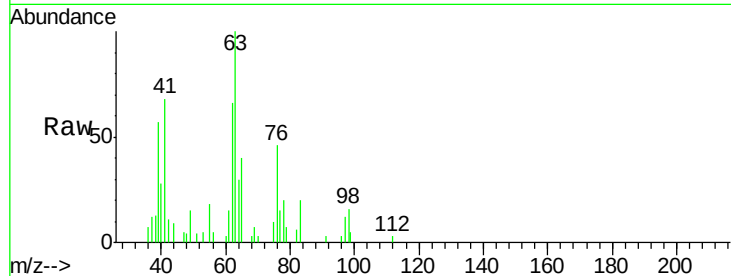
#45
 1,2-Dichloropropane
 Concen: 4.177 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion: 63 Resp: 11316
 Ion Ratio Lower Upper
 63 100
 65 39.5 24.6 36.8#

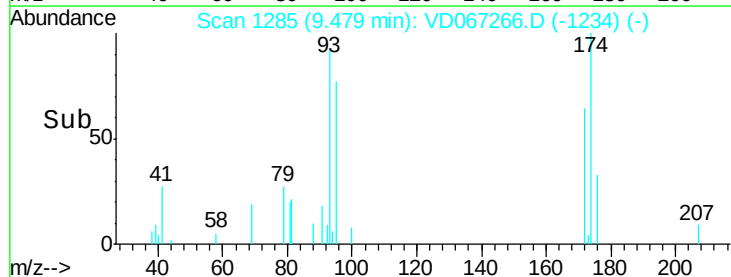
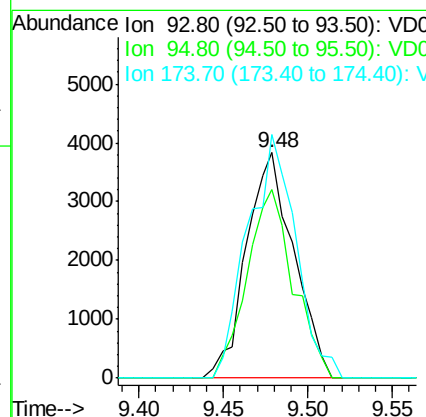
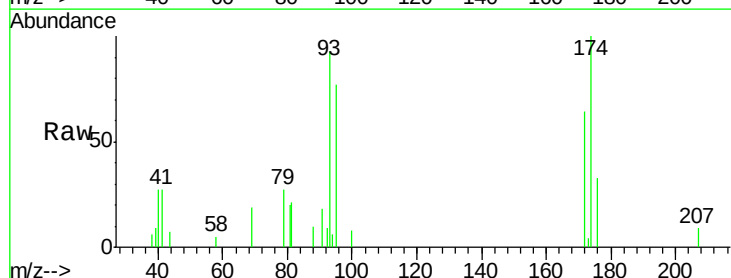
Manual Integrations
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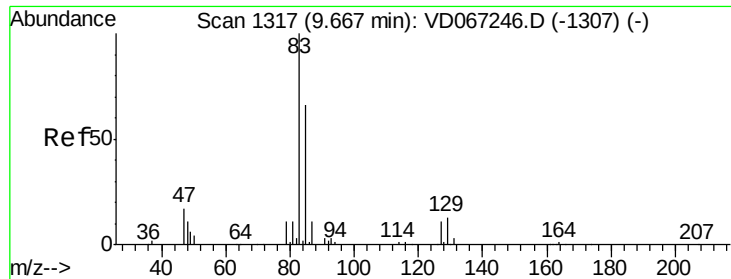
MMDadoda
 10/15/2020 12:18:50 PM



#46
 Dibromomethane
 Concen: 4.433 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion: 93 Resp: 7483
 Ion Ratio Lower Upper
 93 100
 95 81.7 68.0 102.0
 174 109.1 91.8 137.6





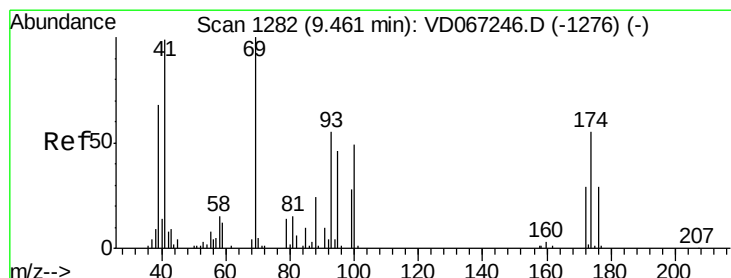
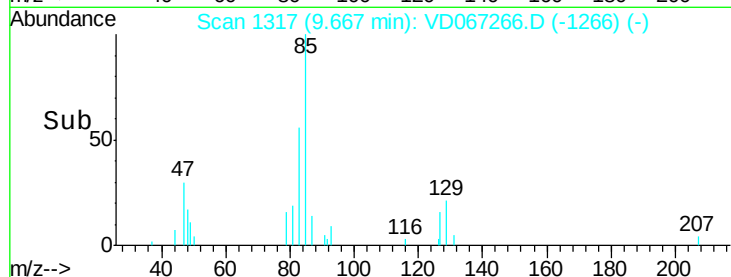
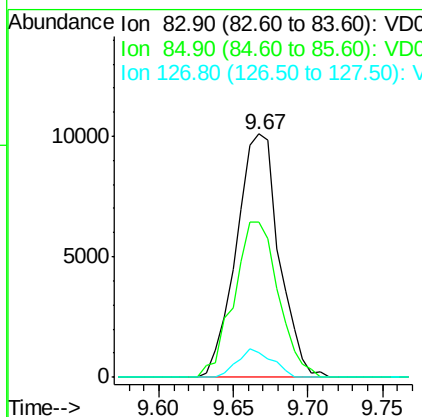
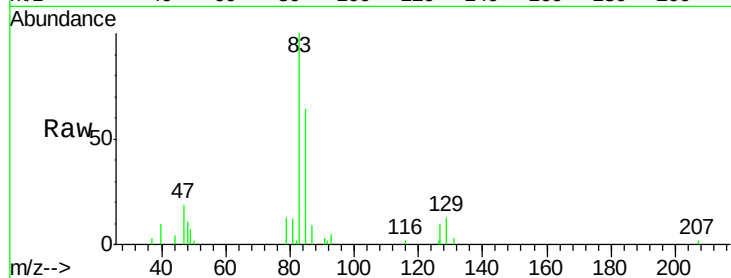
#47
Bromodichloromethane
Concen: 4.444 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.7	53.1	79.7
127	10.1	8.6	13.0

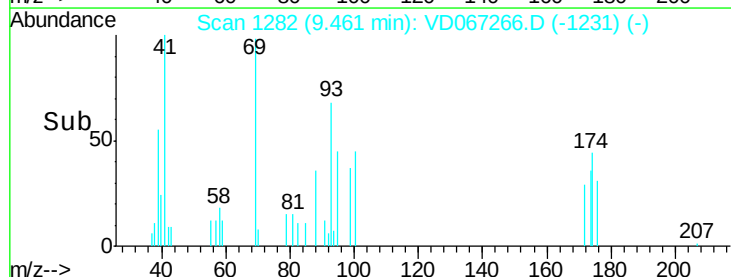
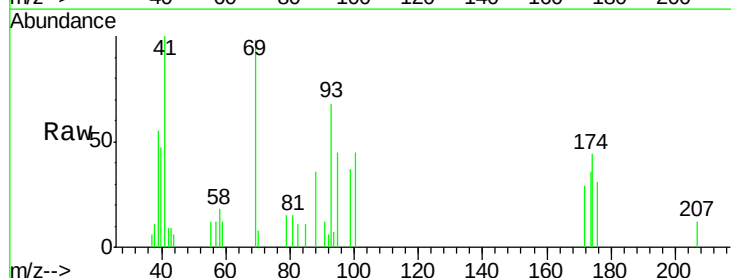
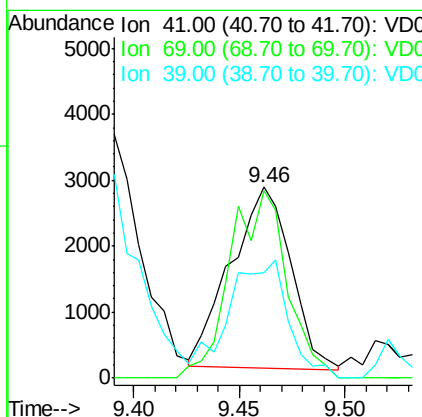
Manual Integrations
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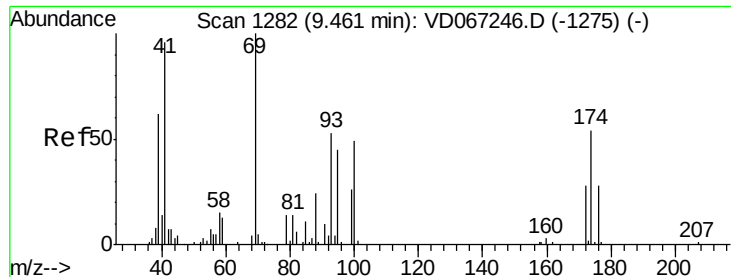
MMDadoda
10/15/2020 12:18:50 PM



#48
Methyl methacrylate
Concen: 4.507 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
41	100		
69	97.8	89.0	133.6
39	64.1	60.2	90.2





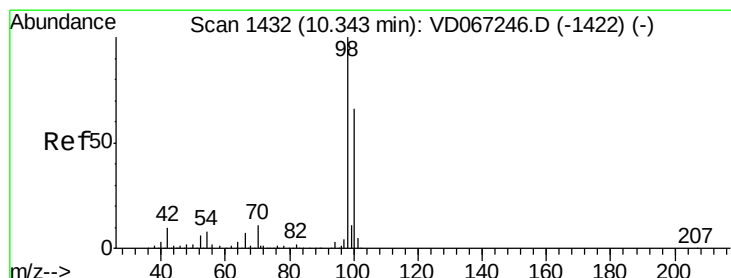
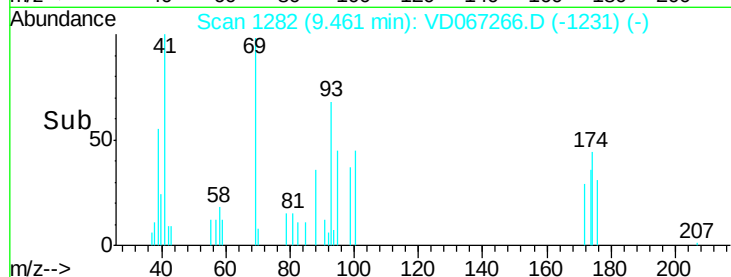
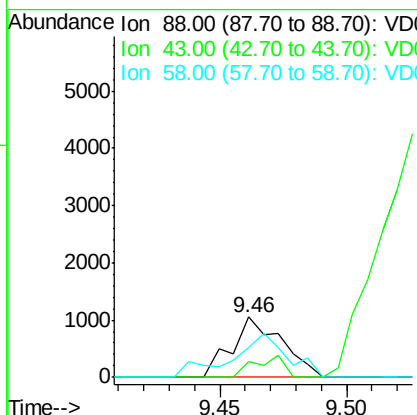
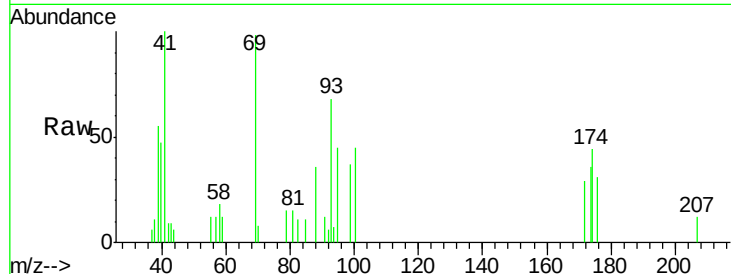
#49
1,4-Dioxane
Concen: 81.276 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	20.9	23.9	35.9#
58	81.7	51.0	76.6#

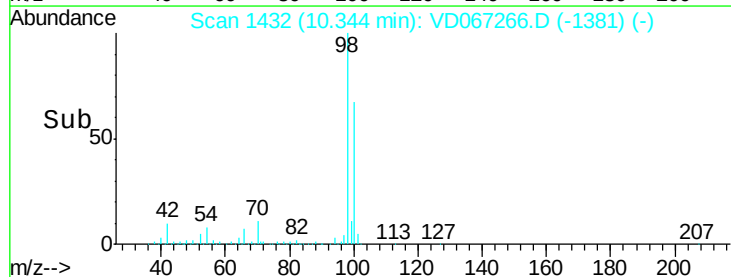
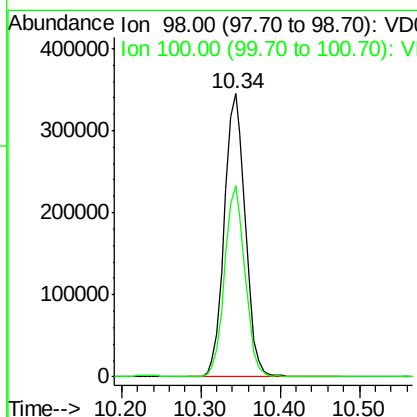
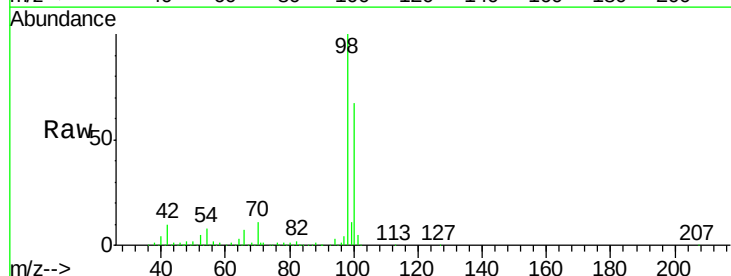
Manual Integrations
APPROVED

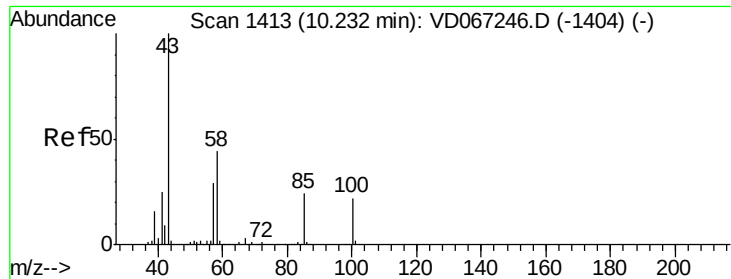
MMDadoda
10/15/2020 12:18:50 PM



#50
Toluene-d8
Concen: 52.091 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.1	79.7





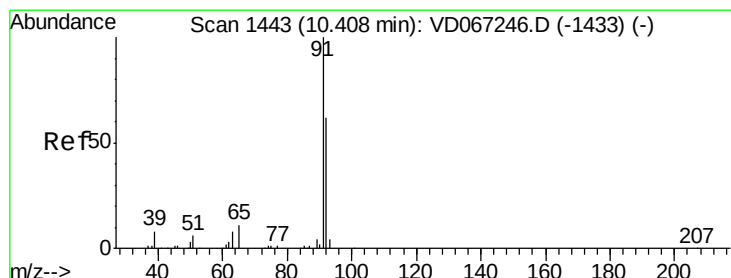
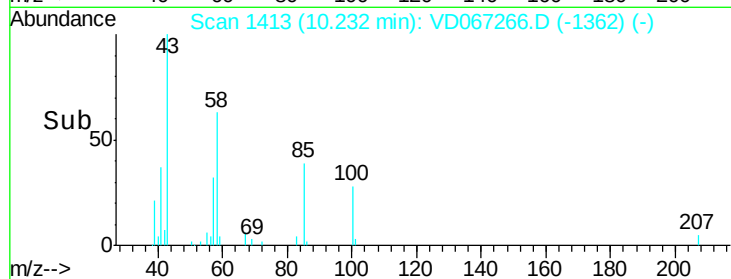
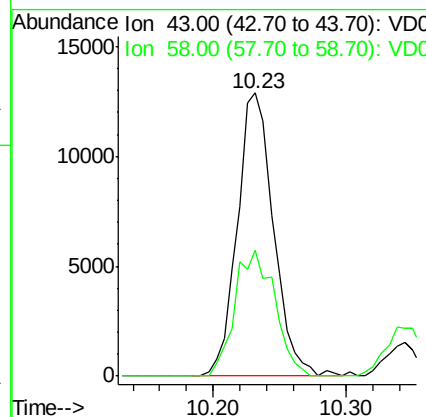
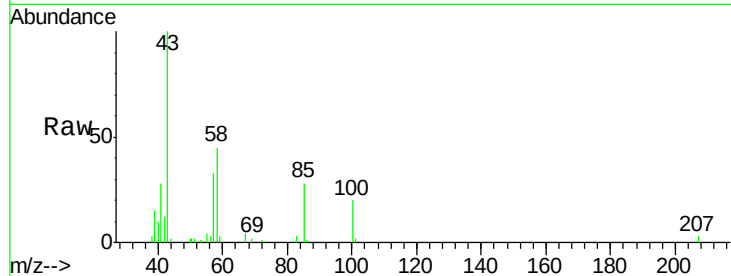
#51
4-Methyl-2-Pentanone
Concen: 19.574 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 24287
Ion Ratio Lower Upper
43 100
58 48.7 35.7 53.5

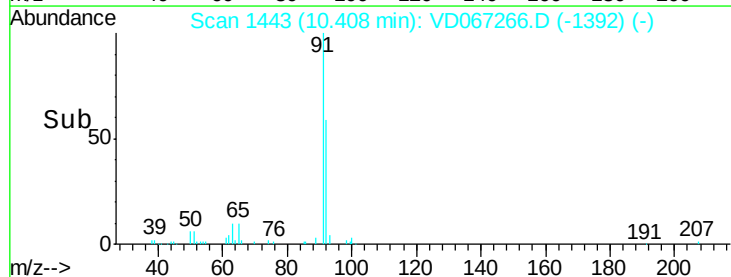
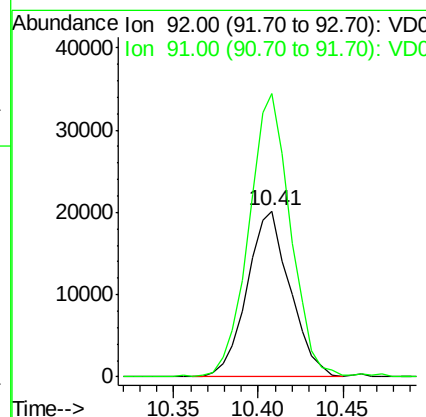
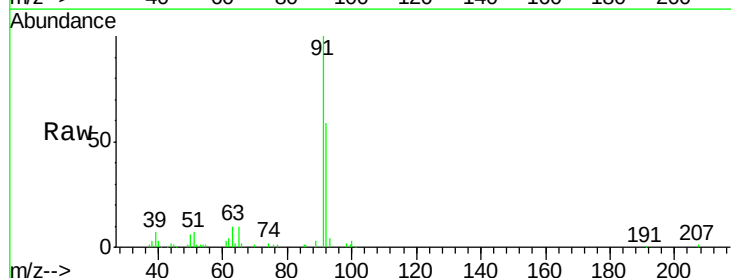
Manual Integrations
APPROVED

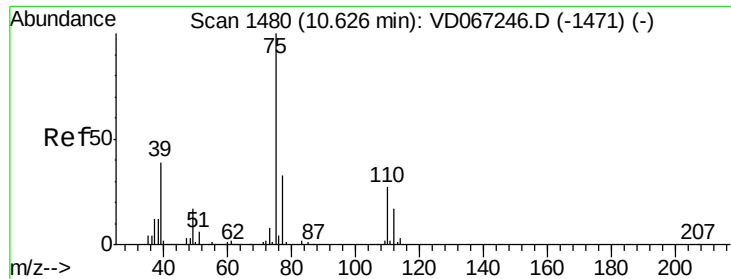
MMDadoda
10/15/2020 12:18:50 PM



#52
Toluene
Concen: 4.513 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 92 Resp: 35933
Ion Ratio Lower Upper
92 100
91 164.4 133.8 200.8





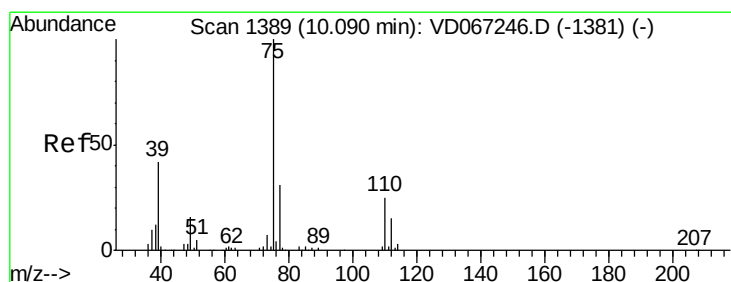
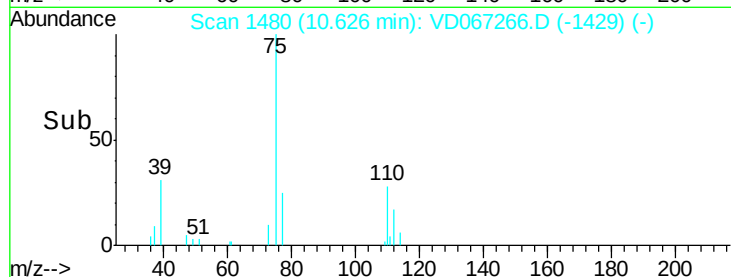
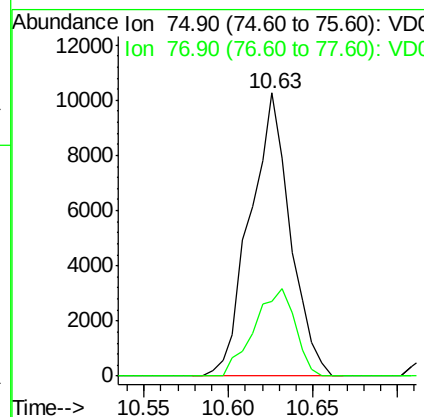
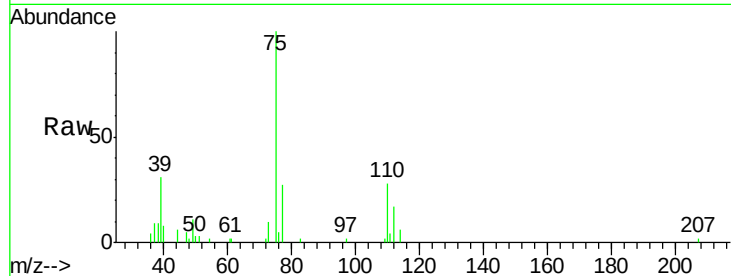
#53
t-1,3-Dichloropropene
Concen: 4.287 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	26.6	26.5	39.7

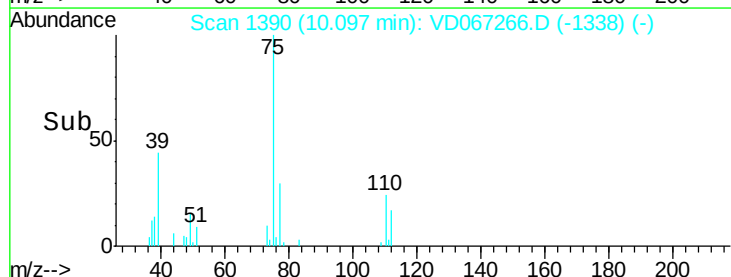
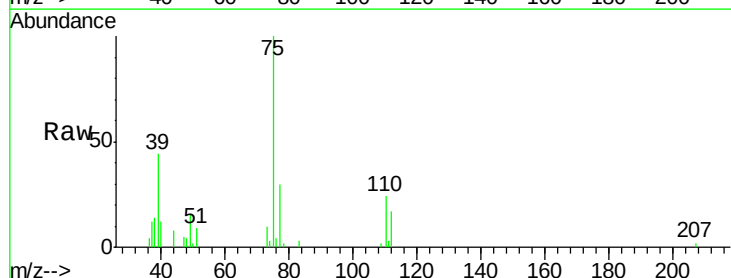
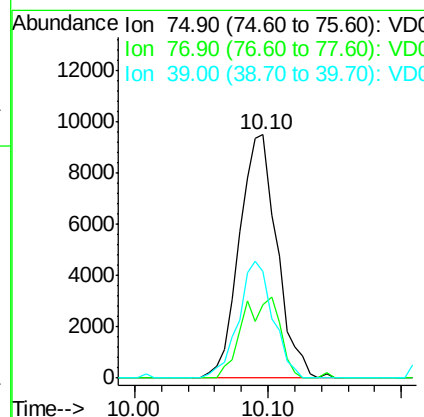
Manual Integrations
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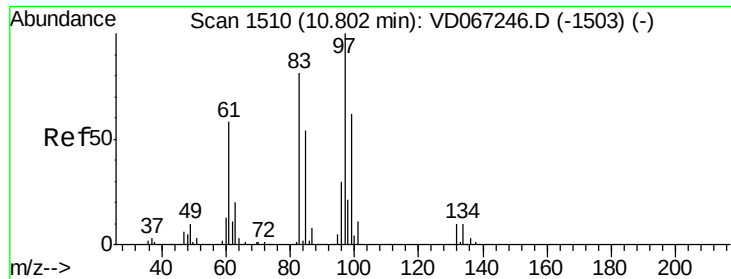
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 3.985 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.5	36.7
39	43.7	33.7	50.5





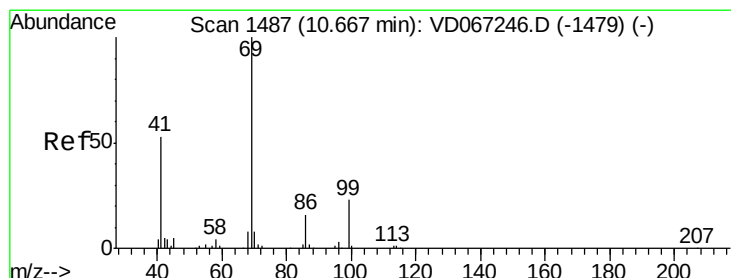
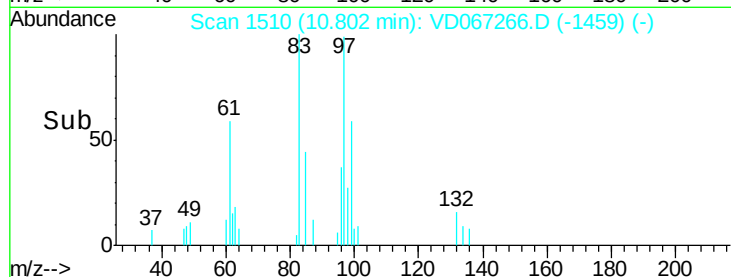
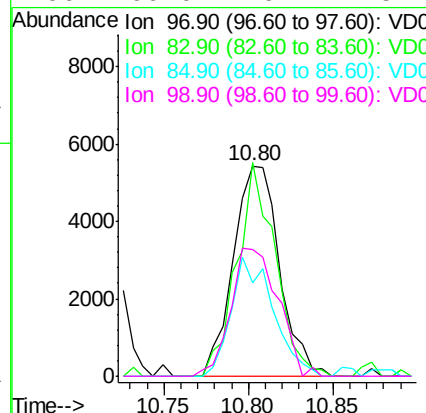
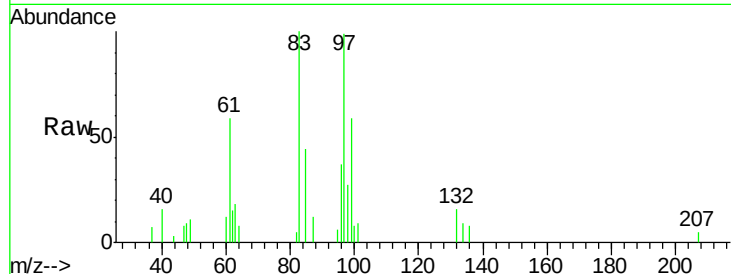
#55
 1,1,2-Trichloroethane
 Concen: 4.493 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion:	97	Resp:	10342
Ion	Ratio	Lower	Upper
97	100		
83	101.5	64.9	97.3#
85	44.6	43.3	64.9
99	60.0	49.1	73.7

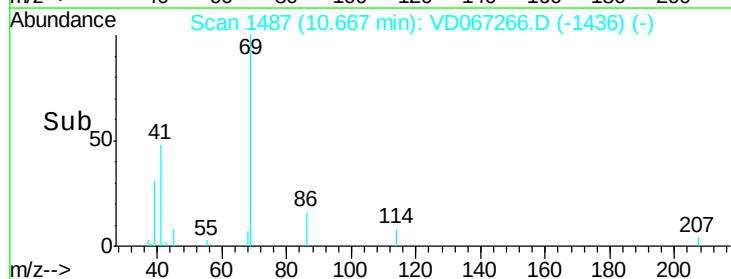
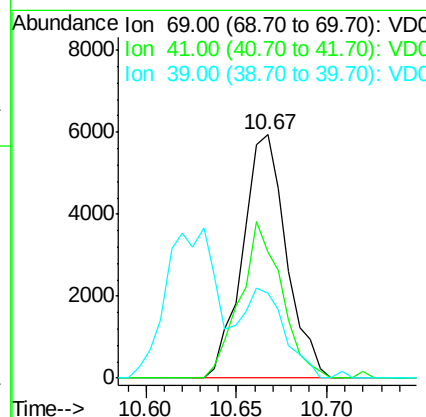
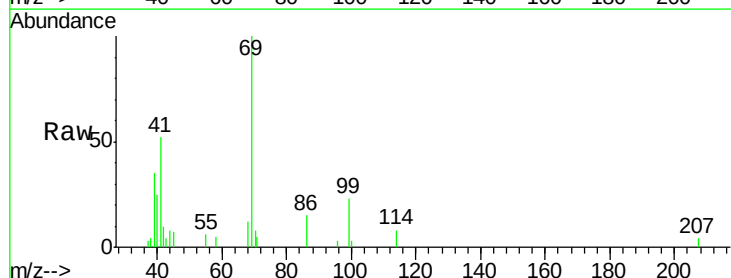
Manual Integrations
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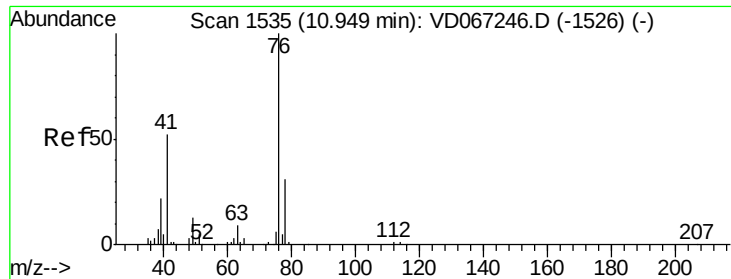
MMDadoda
 10/15/2020 12:18:50 PM



#56
 Ethyl methacrylate
 Concen: 4.179 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion:	69	Resp:	9975
Ion	Ratio	Lower	Upper
69	100		
41	60.9	44.7	67.1
39	32.9	26.2	39.2





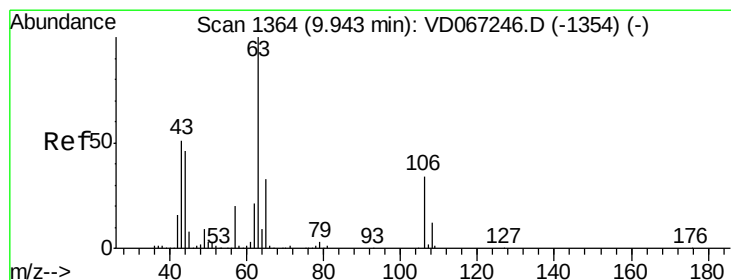
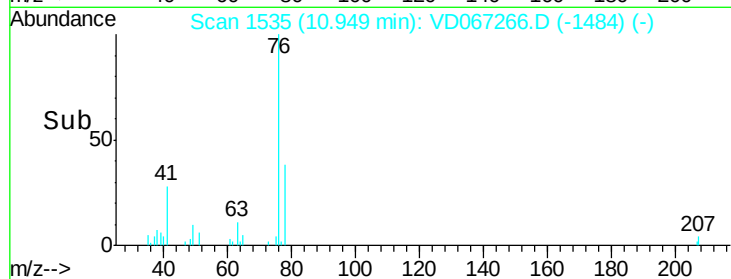
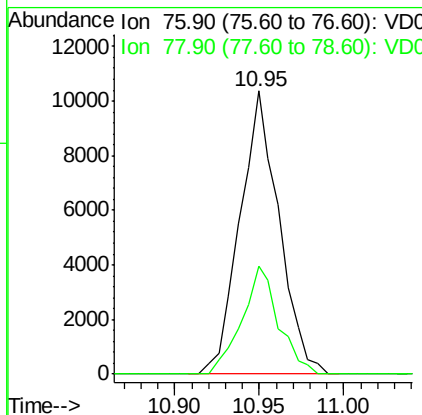
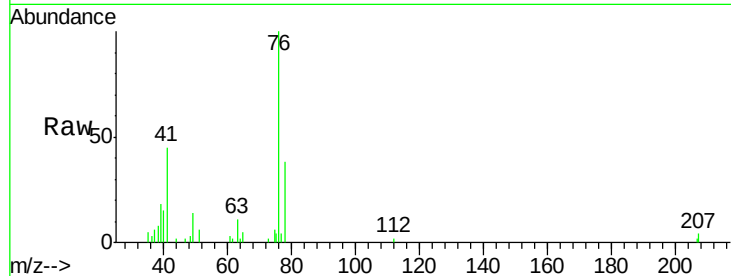
#57
 1,3-Dichloropropane
 Concen: 4.556 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	36.0	26.8	40.2

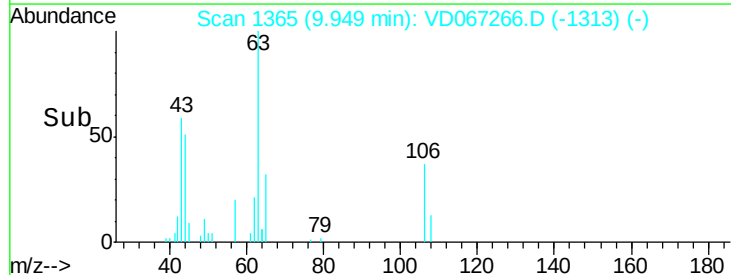
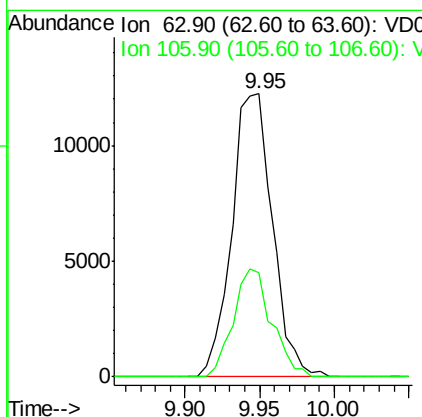
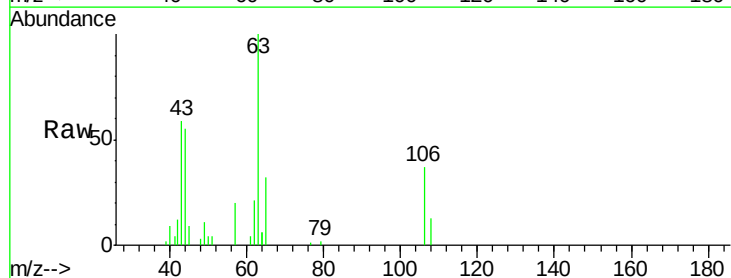
Manual Integrations
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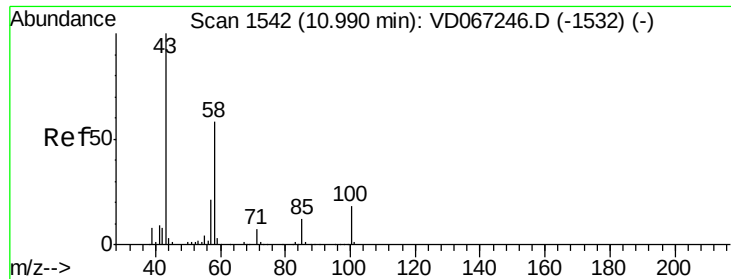
MMDadoda
 10/15/2020 12:18:50 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.970 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
63	100		
106	35.8	27.8	41.6





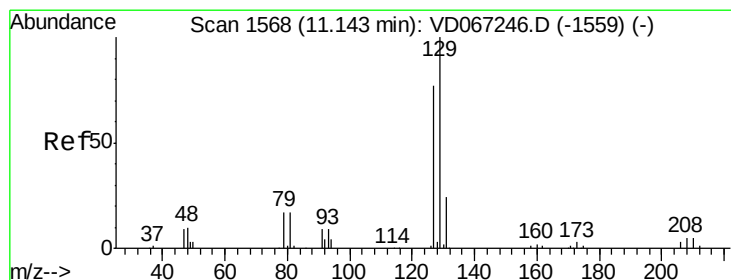
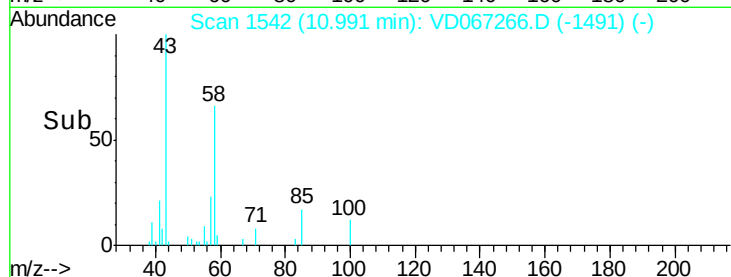
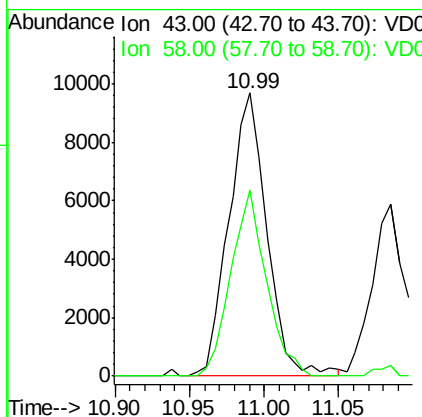
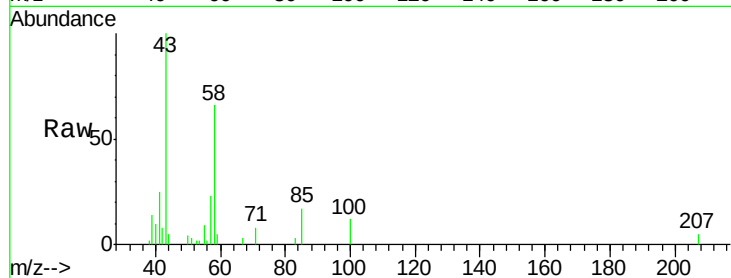
#59
2-Hexanone
Concen: 20.274 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 17189
Ion Ratio Lower Upper
43 100
58 61.7 29.3 87.9

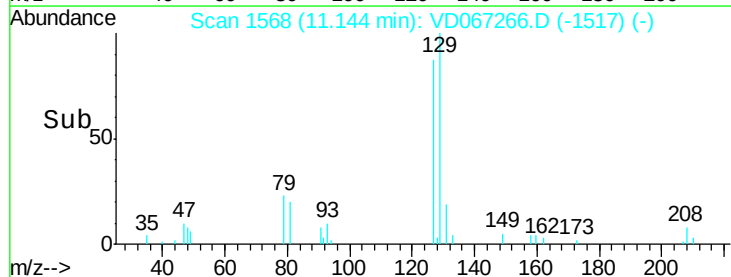
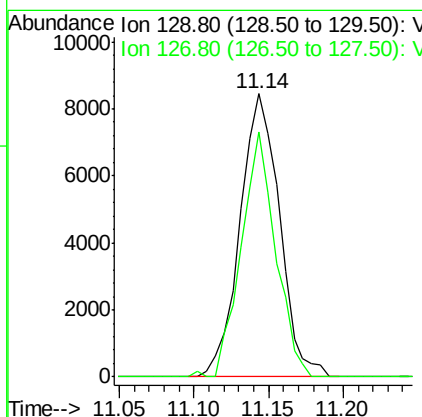
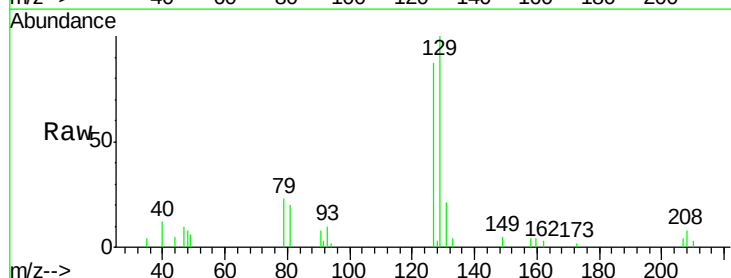
Manual Integrations
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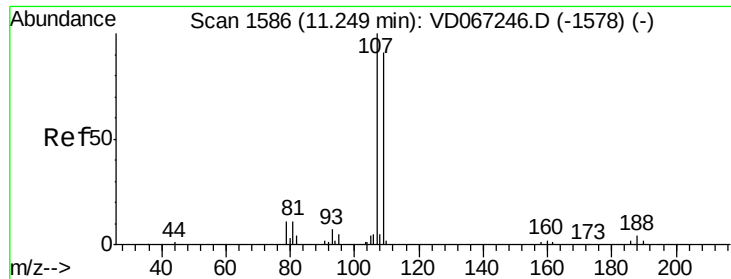
MMDadoda
10/15/2020 12:18:50 PM



#60
Dibromochloromethane
Concen: 4.607 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 129 Resp: 15464
Ion Ratio Lower Upper
129 100
127 75.2 38.3 114.8





#61

1,2-Dibromoethane

Concen: 4.377 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 107 Resp: 9932

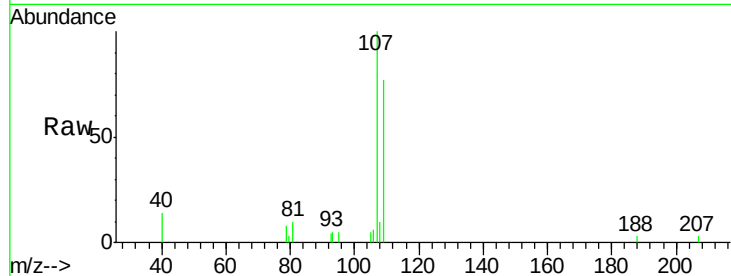
Ion Ratio Lower Upper

107 100

109 87.8 74.6 112.0

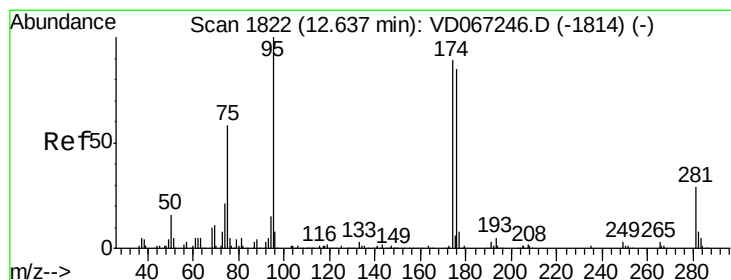
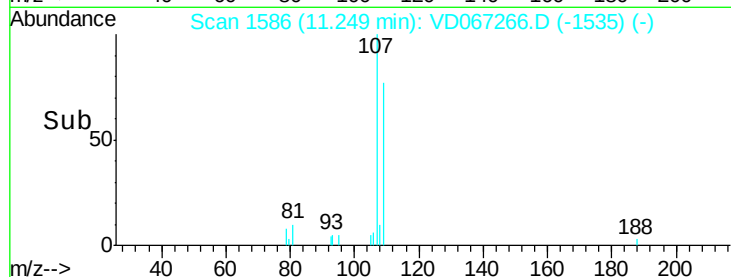
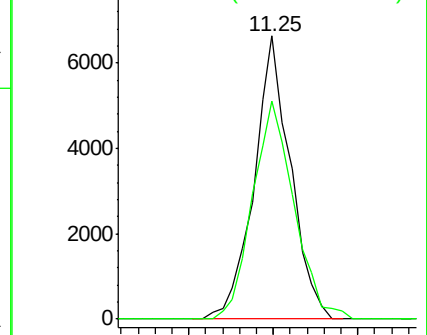
Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.984 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

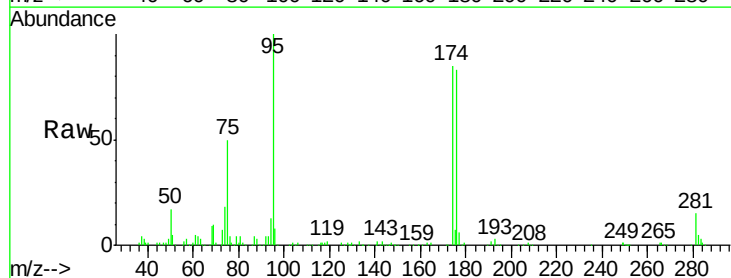
Tgt Ion: 95 Resp: 223075

Ion Ratio Lower Upper

95 100

174 85.9 0.0 175.2

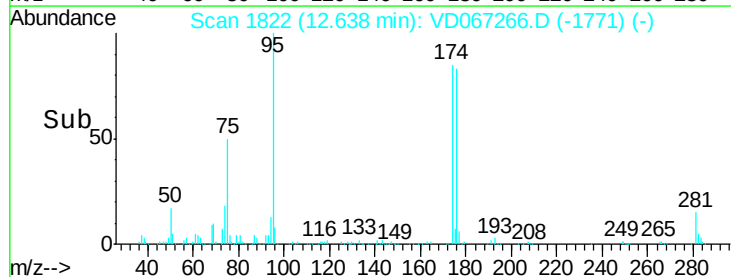
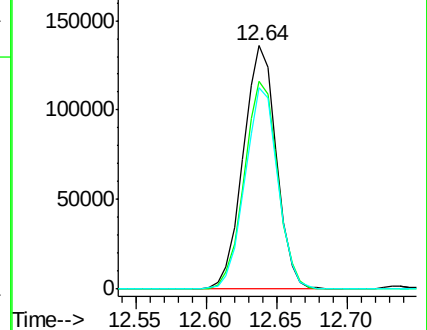
176 82.4 0.0 168.6

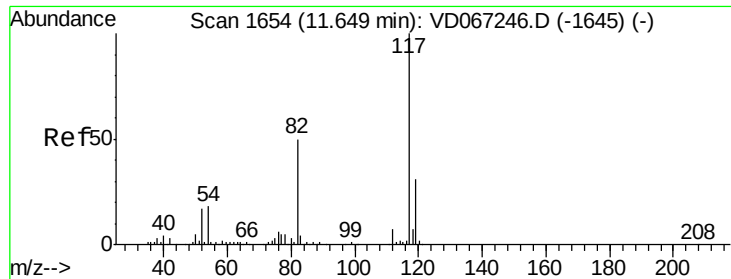


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





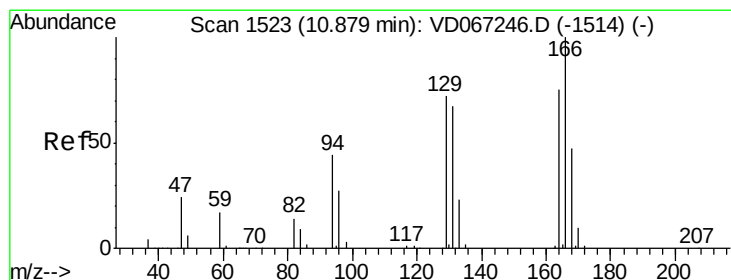
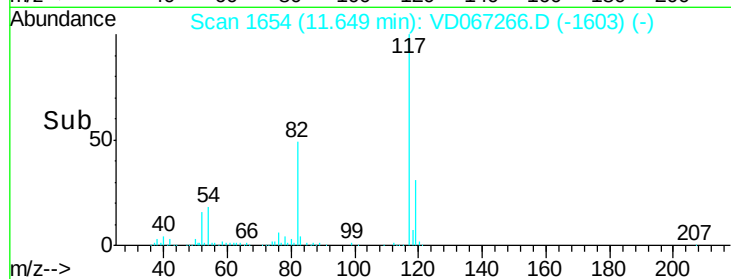
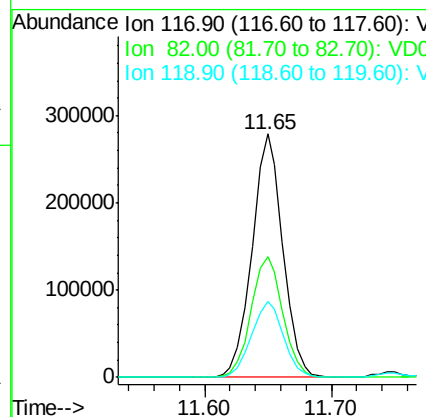
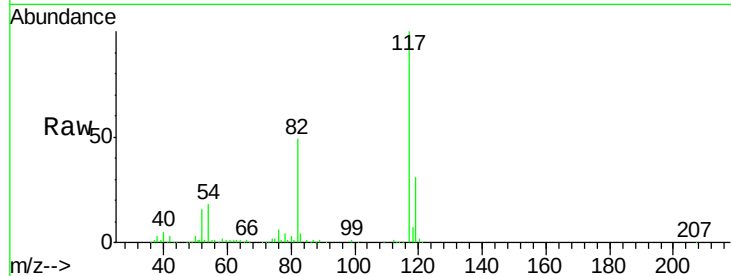
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	469575		
82	49.4		39.9	59.9
119	31.1		24.9	37.3

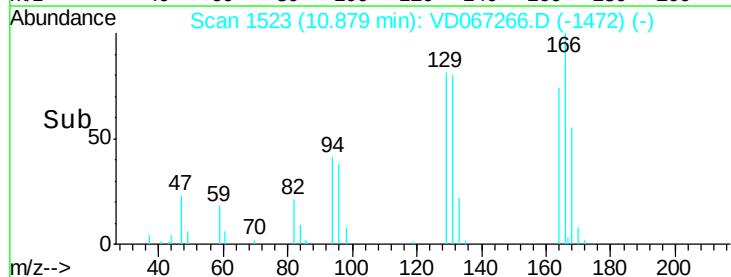
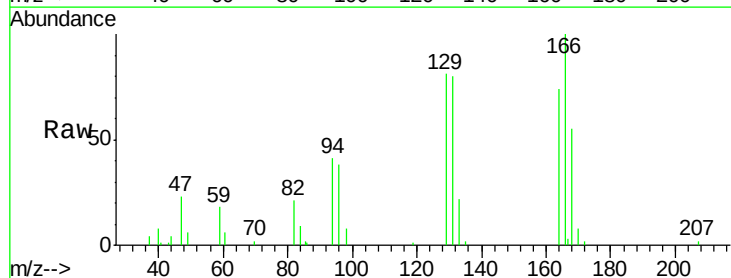
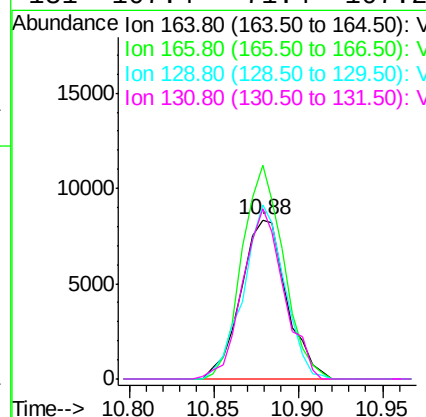
Manual Integrations
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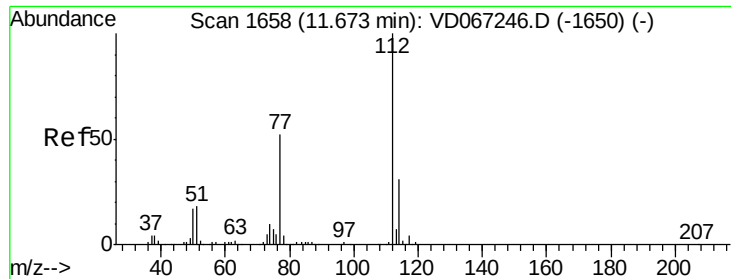
MMDadoda
10/15/2020 12:18:50 PM



#64
Tetrachloroethene
Concen: 4.616 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	15704		
166	134.5		107.3	160.9
129	109.5		77.3	115.9
131	107.4		71.4	107.2#





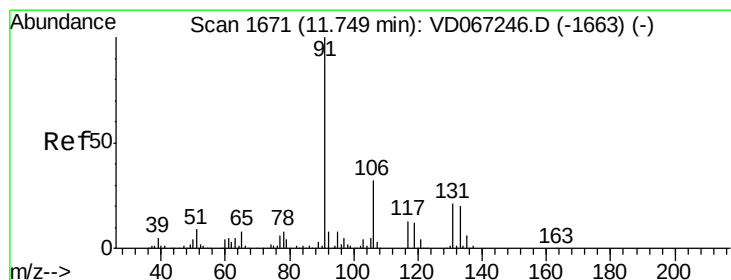
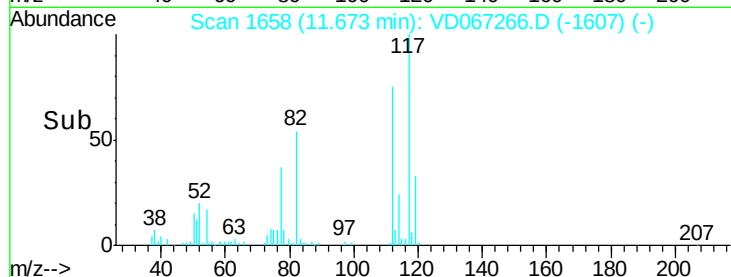
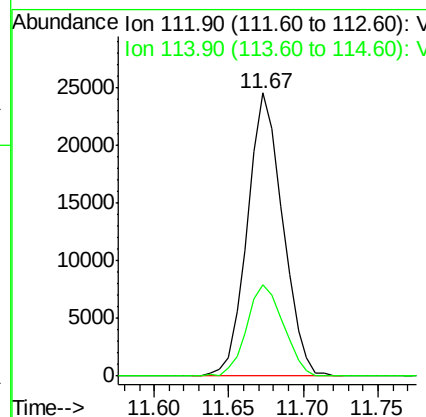
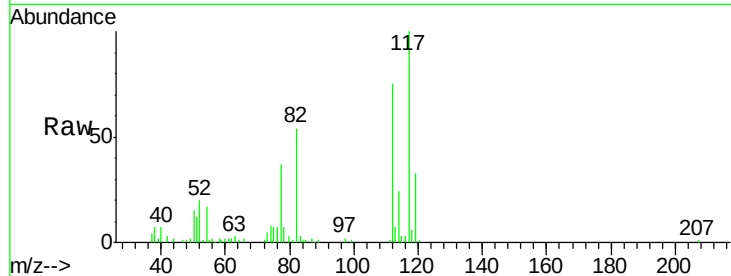
#65
Chlorobenzene
Concen: 4.459 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.0	37.4

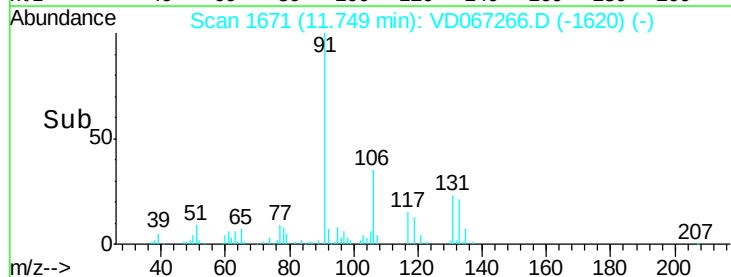
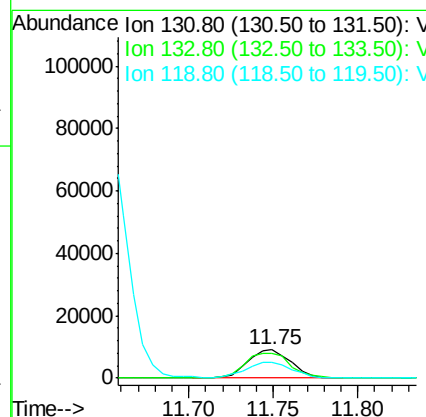
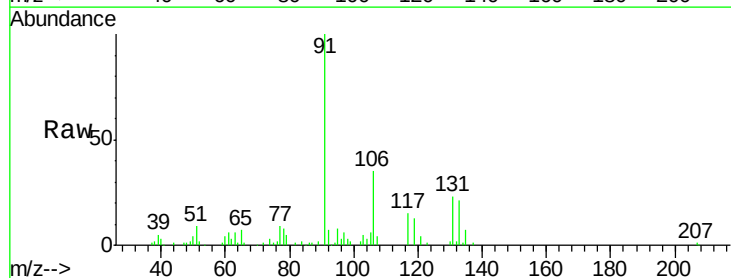
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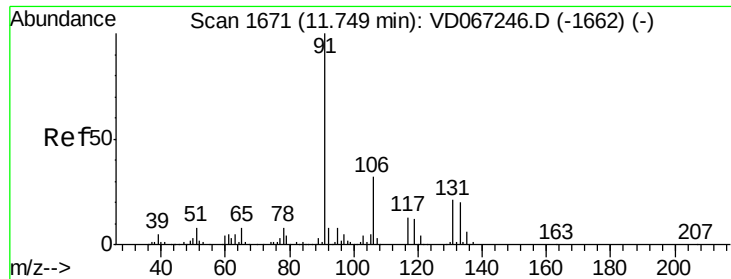
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.482 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.1	48.1	144.3
119	61.0	30.0	90.0





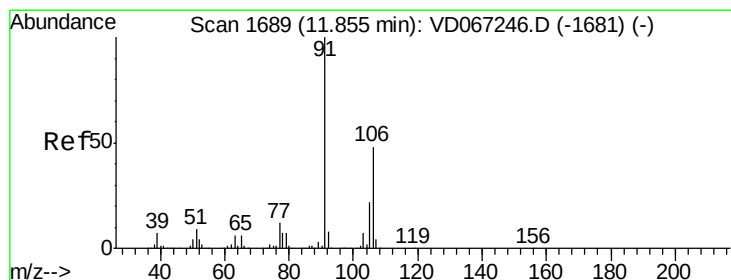
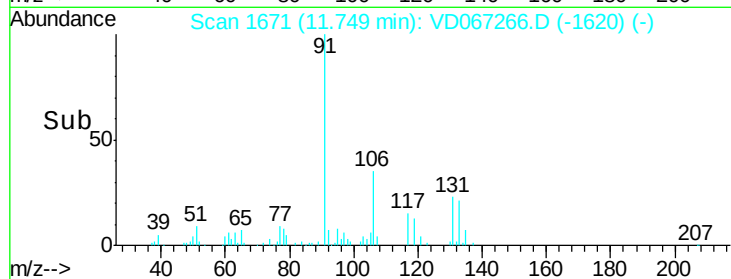
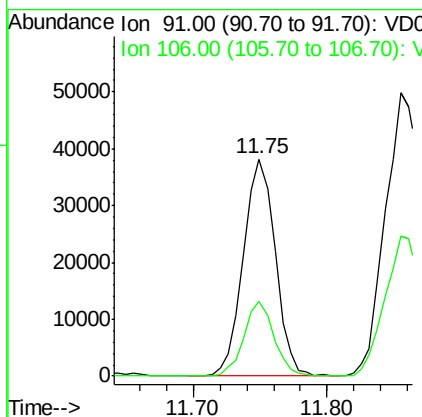
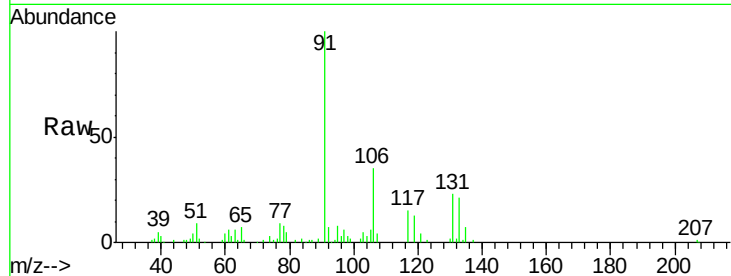
#67
Ethyl Benzene
Concen: 4.113 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 63486
Ion Ratio Lower Upper
91 100
106 34.7 25.4 38.0

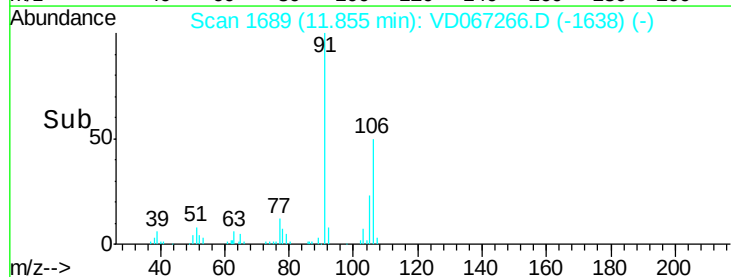
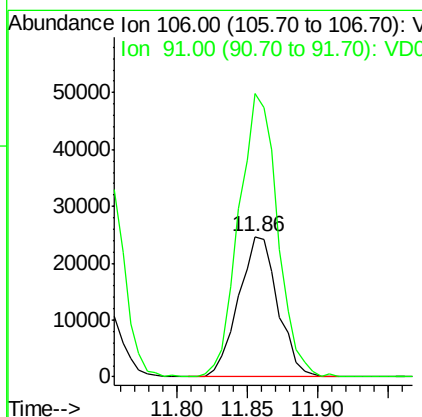
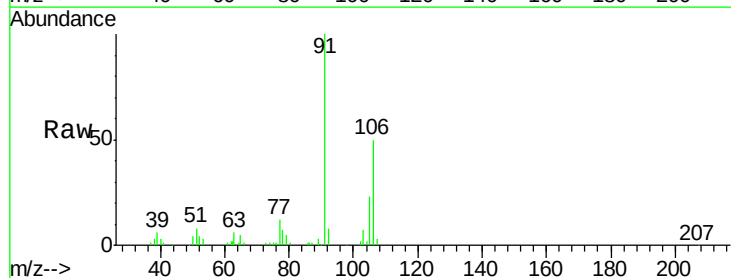
Manual Integrations
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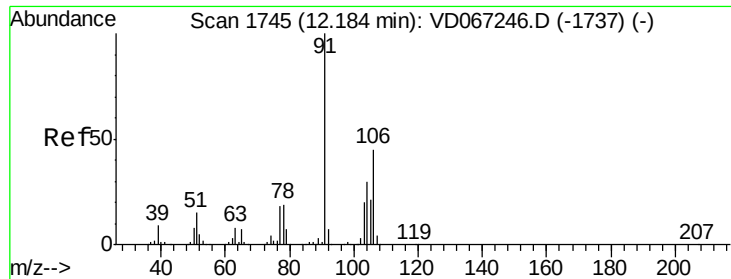
MMDadoda
10/15/2020 12:18:50 PM



#68
m/p-Xylenes
Concen: 8.095 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 106 Resp: 48116
Ion Ratio Lower Upper
106 100
91 199.1 163.8 245.8





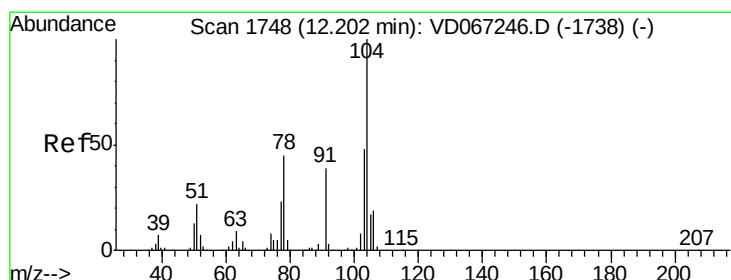
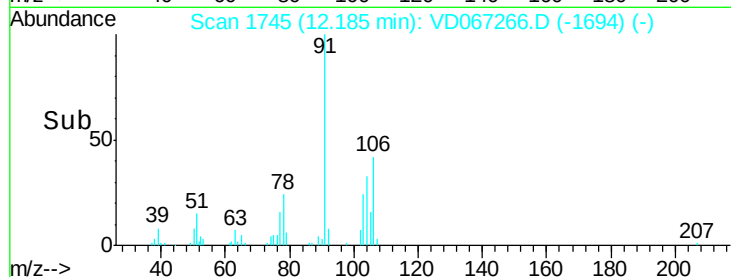
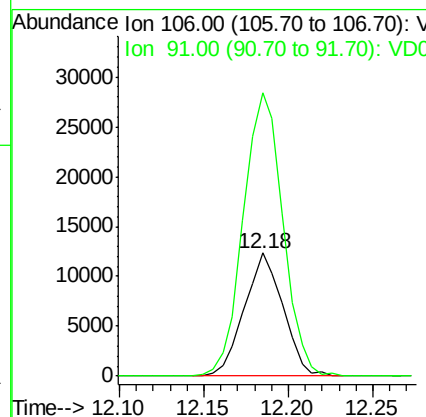
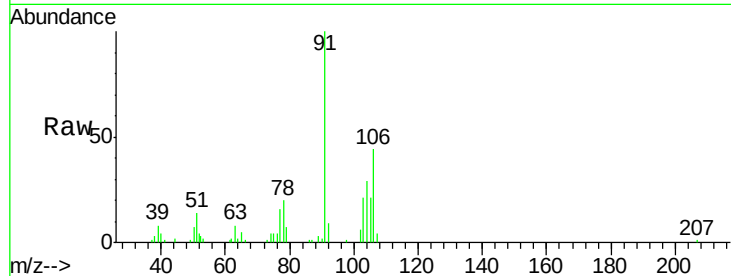
#69
o-Xylene
Concen: 3.594 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		19782		
91	234.3	109.1	327.3		

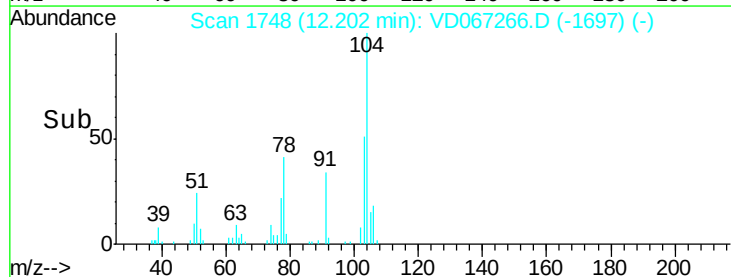
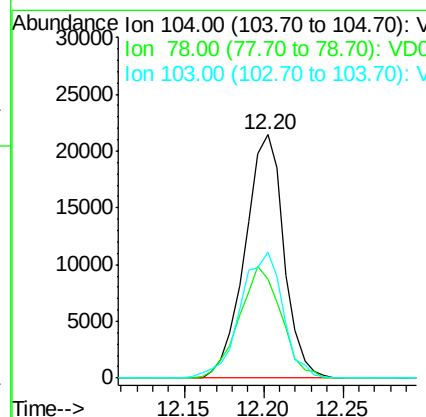
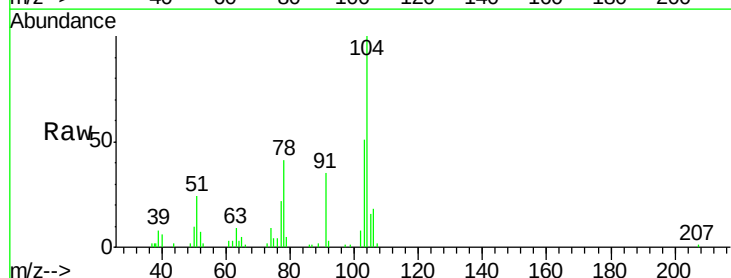
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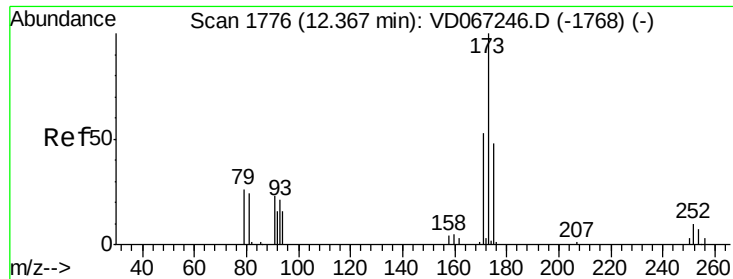
MMDadoda
10/15/2020 12:18:50 PM



#70
Styrene
Concen: 3.865 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		36618		
78	49.4	39.8	59.6		
103	56.5	42.6	64.0		





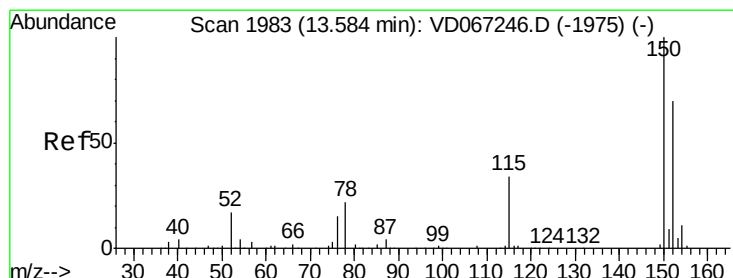
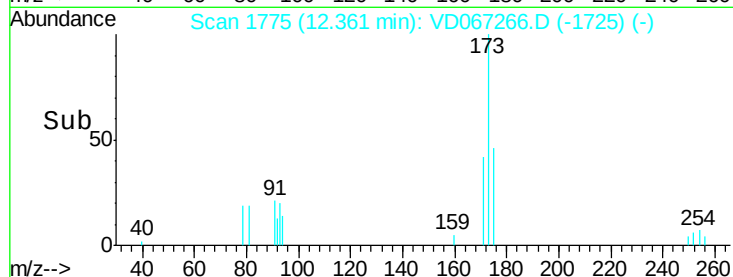
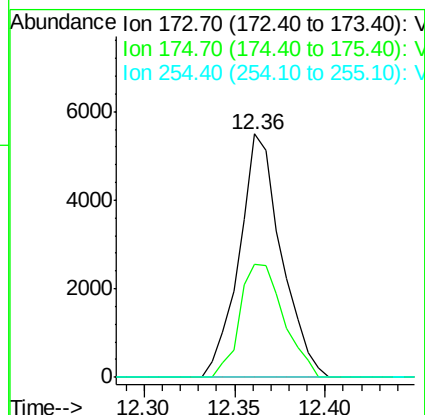
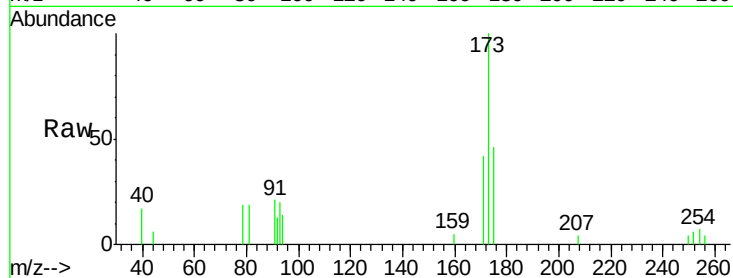
#71
Bromoform
Concen: 4.620 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.2	72.6
254	0.0	0.1	0.1#

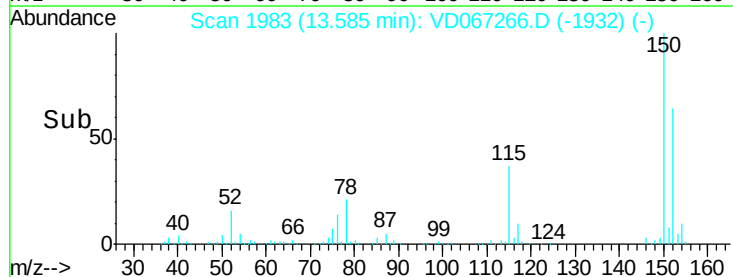
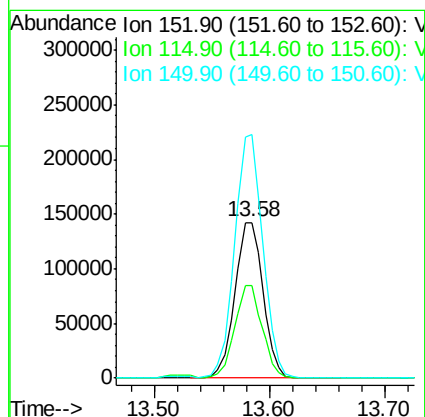
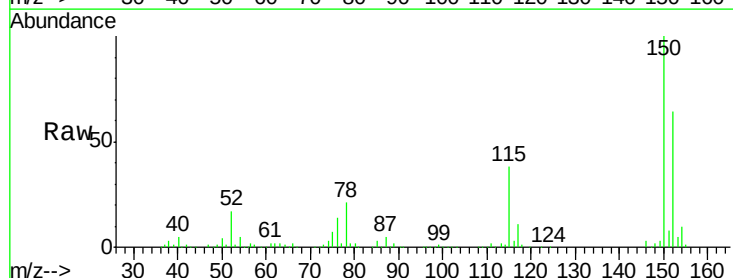
Manual Integrations
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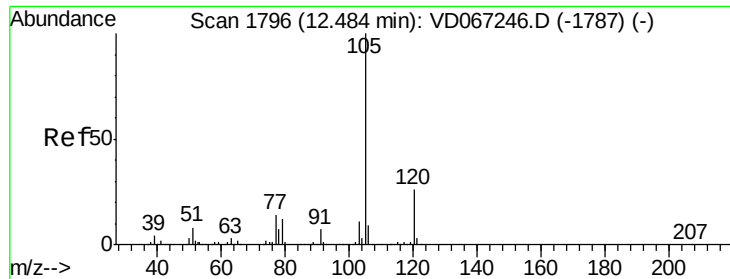
MMDadoda
10/15/2020 12:18:50 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.3	87.9
150	156.5	0.0	339.0





#73

Isopropylbenzene

Concen: 3.723 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 56754

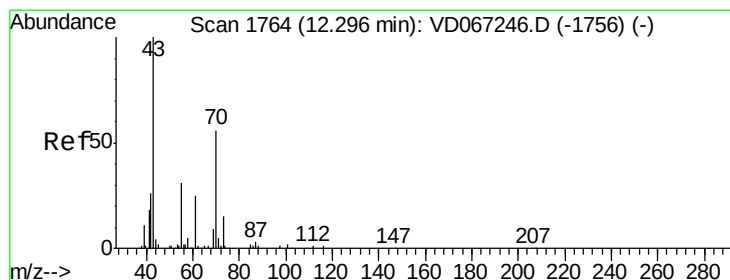
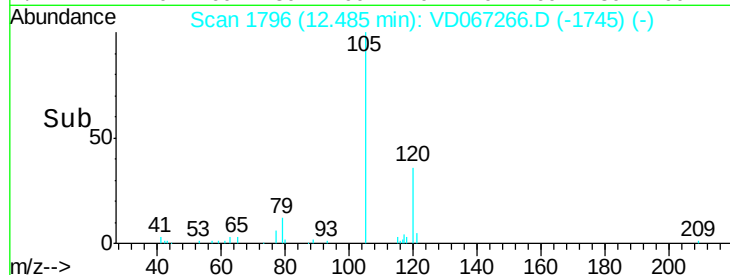
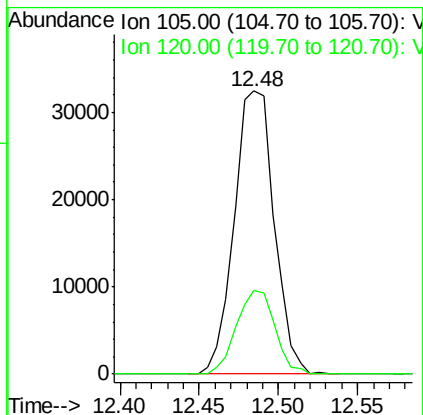
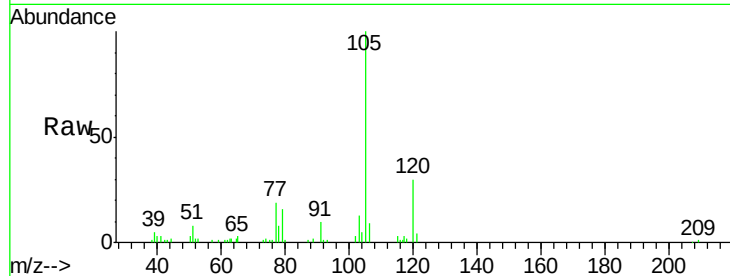
Ion Ratio Lower Upper

105 100

120 28.4 13.3 39.8

Manual Integrations
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#74

N-ethyl acetate

Concen: 3.947 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion: 43 Resp: 9086

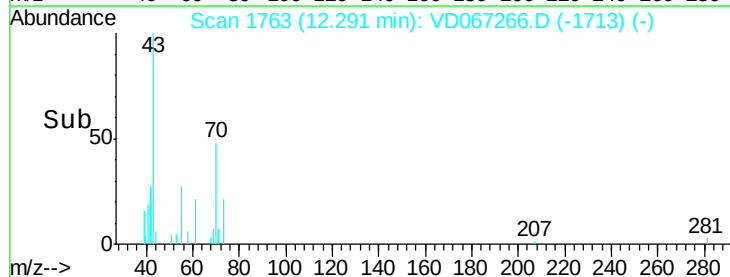
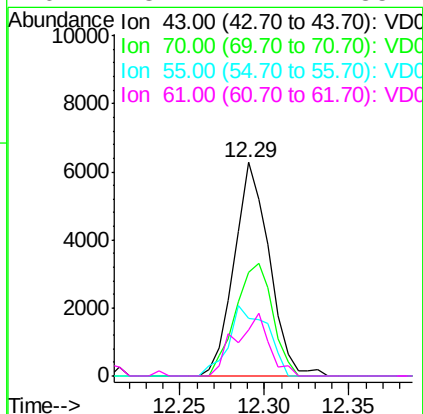
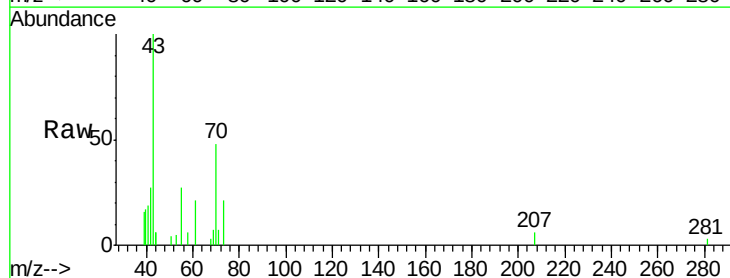
Ion Ratio Lower Upper

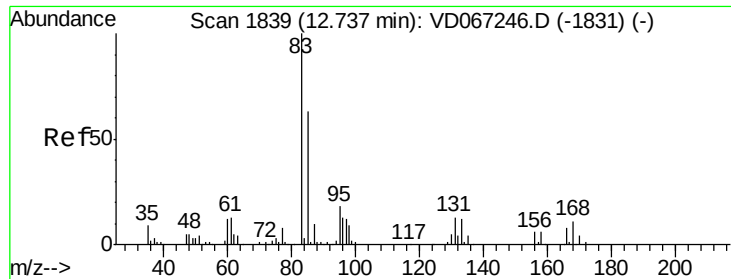
43 100

70 55.7 42.7 64.1

55 35.8 24.0 36.0

61 28.2 22.2 33.4





#75

1,1,2,2-Tetrachloroethane

Concen: 4.744 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

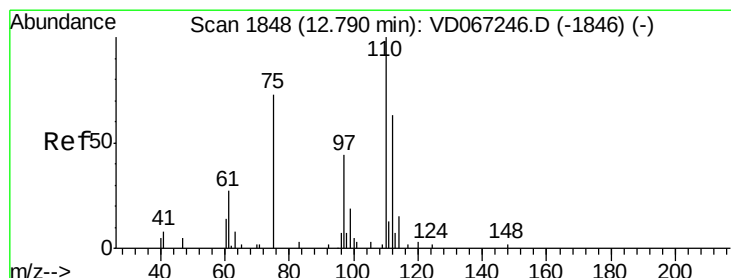
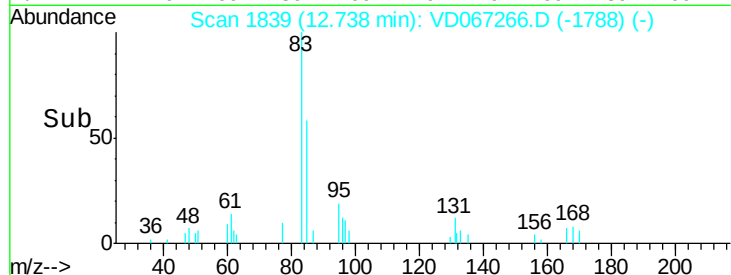
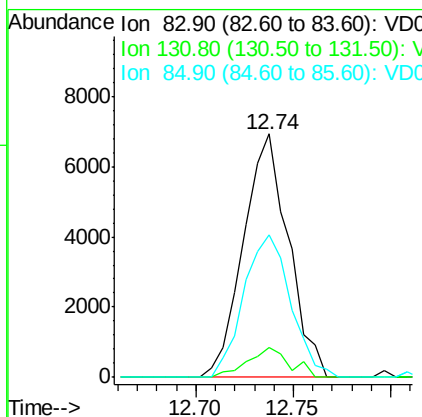
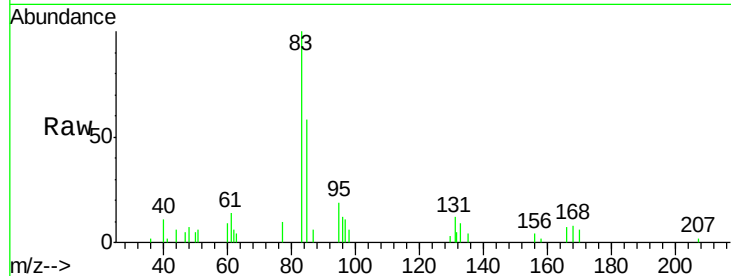
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	83	Resp:	11080
Ion Ratio	Lower	Upper	
83	100		
131	11.1	6.5	19.5
85	61.1	32.6	97.7

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#76

1,2,3-Trichloropropane

Concen: 4.738 ug/l m

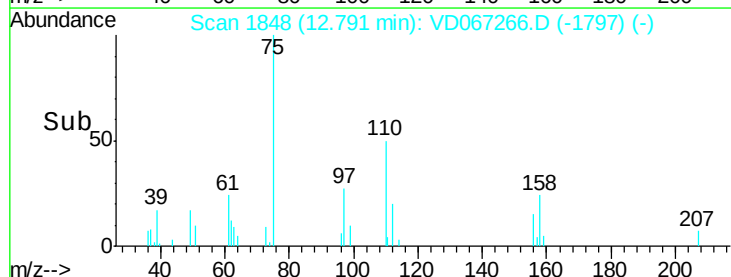
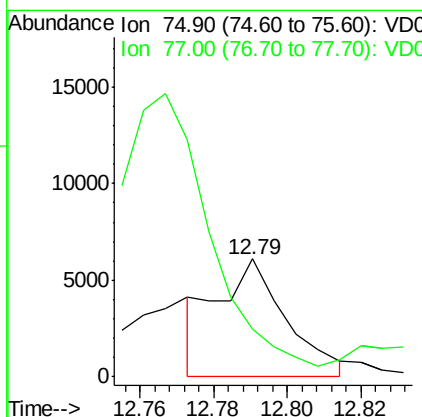
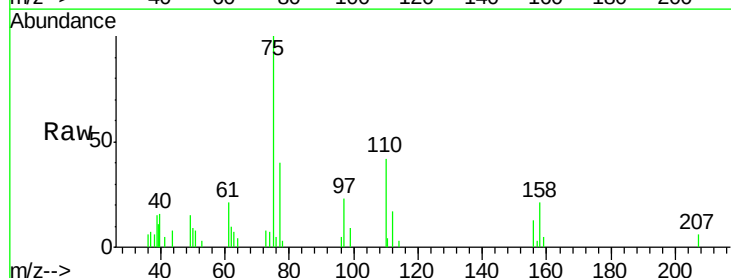
RT: 12.79 min Scan# 1848

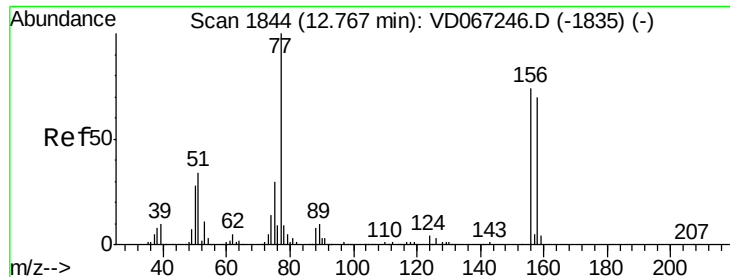
Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion:	75	Resp:	7887
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.540 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

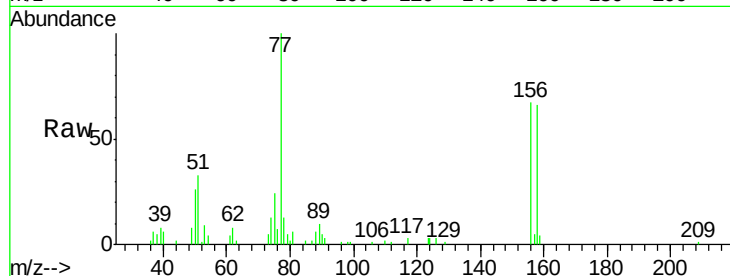
ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:	156	Resp:	17251
Ion	Ratio	Lower	Upper
156	100		
77	156.8	78.0	233.8
158	99.3	49.1	147.3

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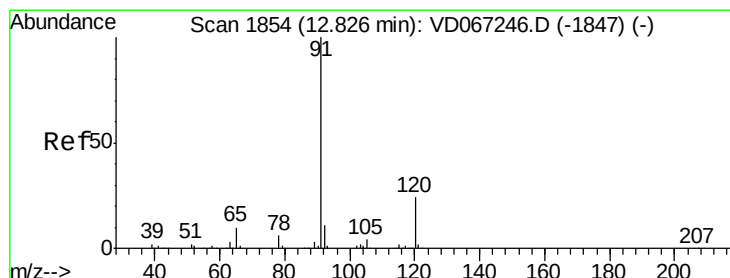
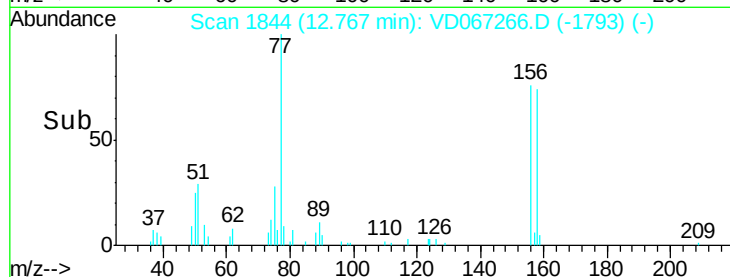
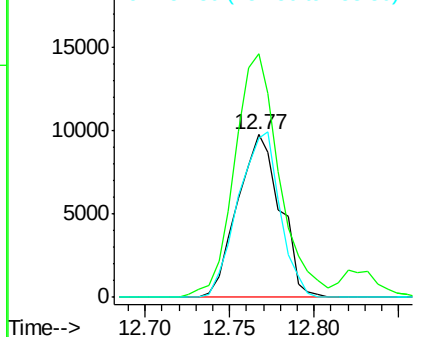


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.992 ug/l

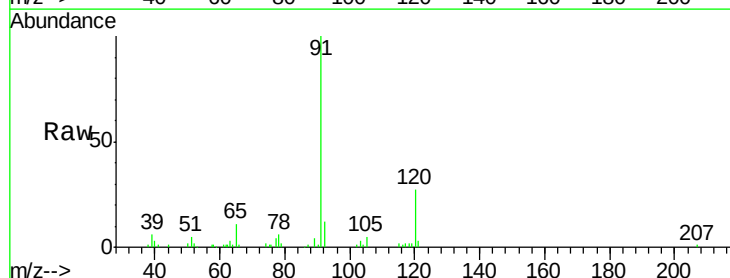
RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

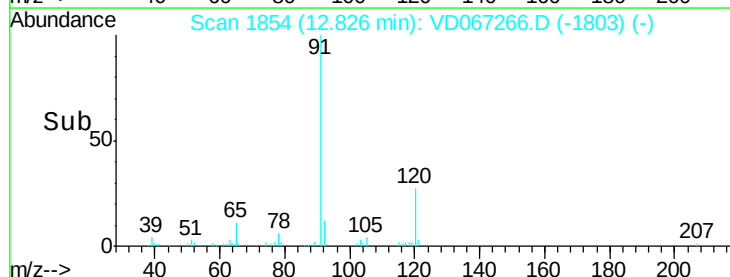
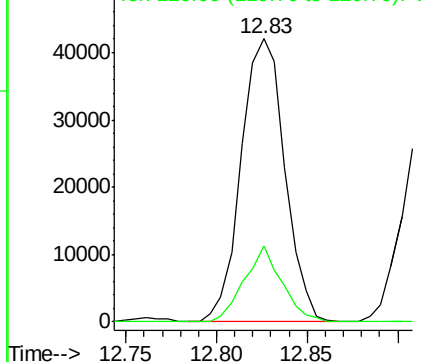
Tgt Ion:	91	Resp:	70506
Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.9	35.9

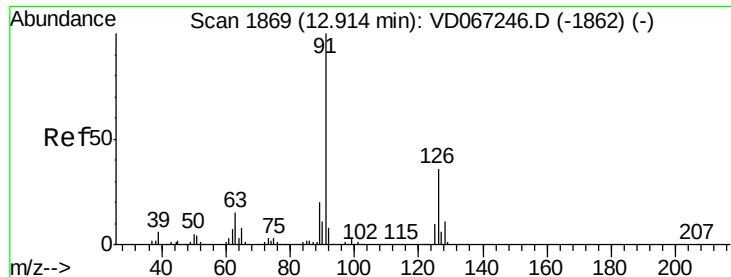


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.323 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 44271

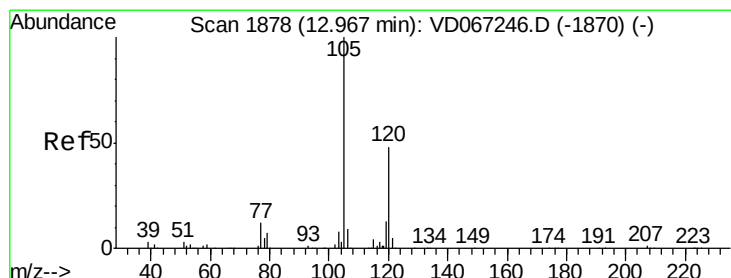
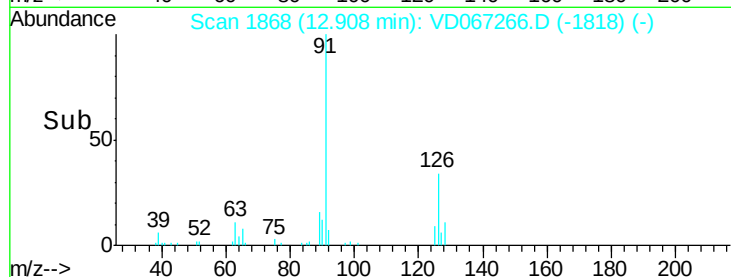
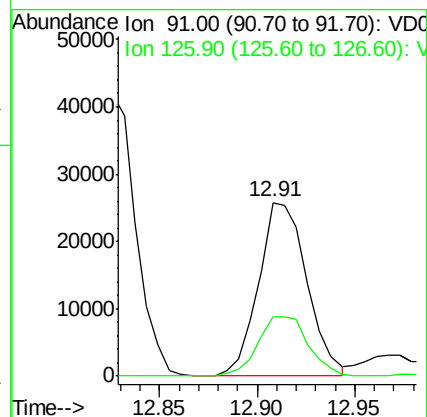
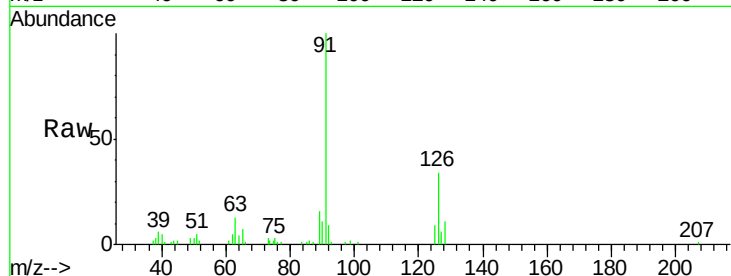
Ion Ratio Lower Upper

91 100

126 35.7 17.6 52.8

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#80

1,3,5-Trimethylbenzene

Concen: 3.896 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD067266.D

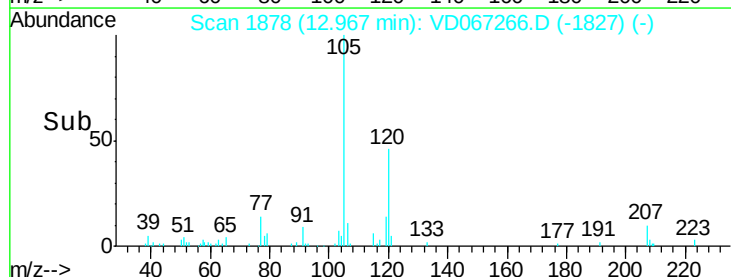
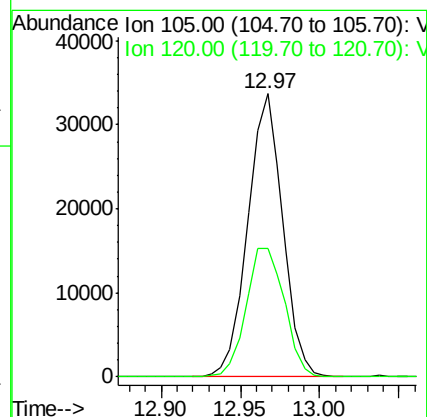
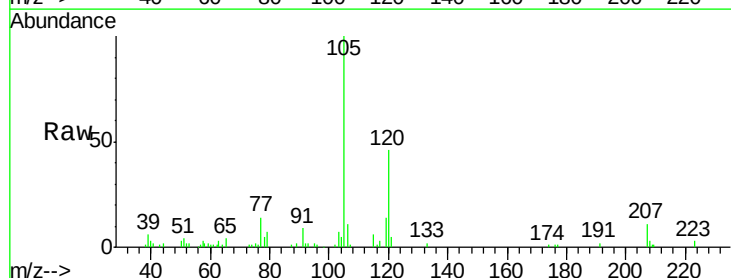
Acq: 14 Oct 2020 12:59

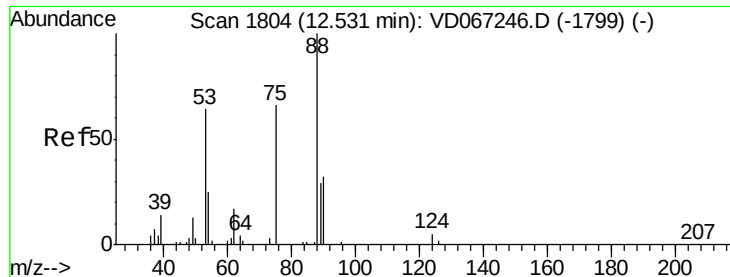
Tgt Ion: 105 Resp: 51599

Ion Ratio Lower Upper

105 100

120 49.7 24.3 72.8





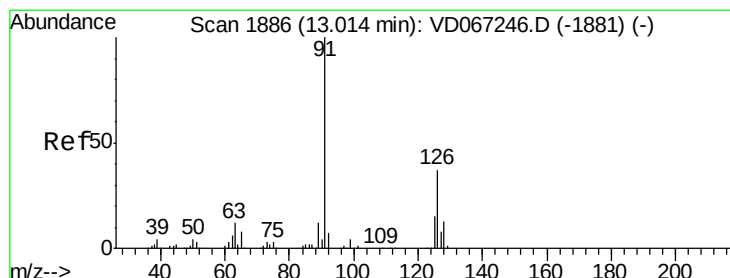
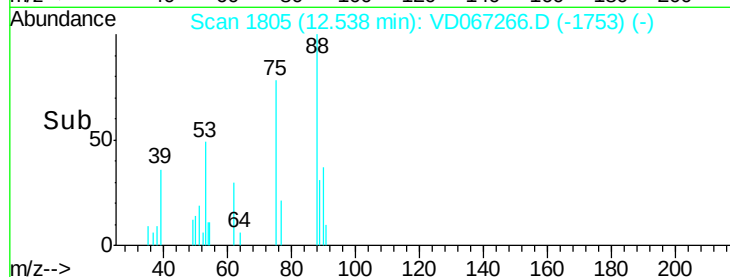
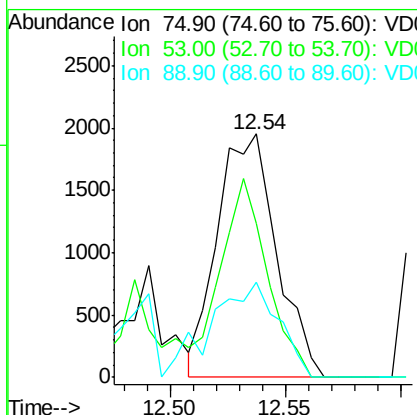
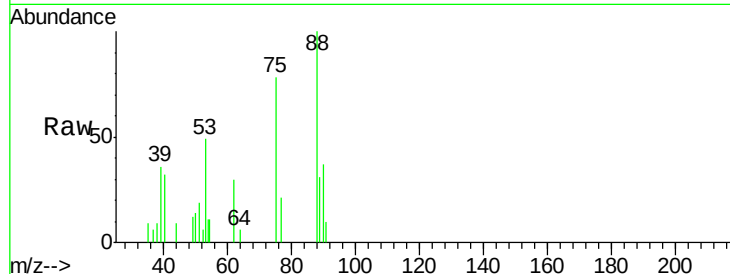
#81
trans-1,4-Dichloro-2-butene
Concen: 4.722 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 3466
Ion Ratio Lower Upper
75 100
53 64.7 78.5 117.7#
89 43.0 39.9 59.9

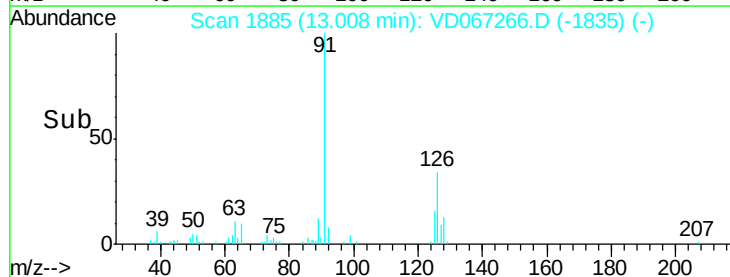
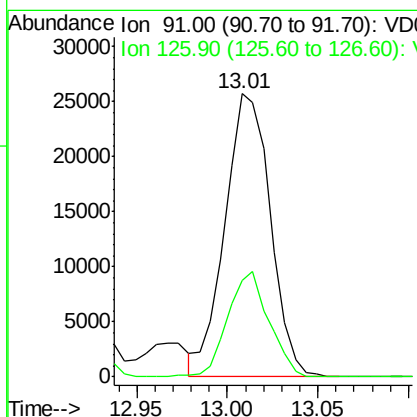
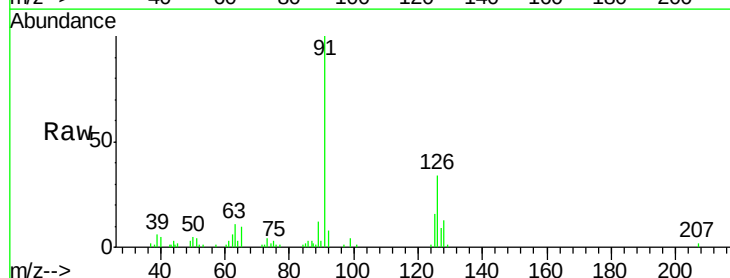
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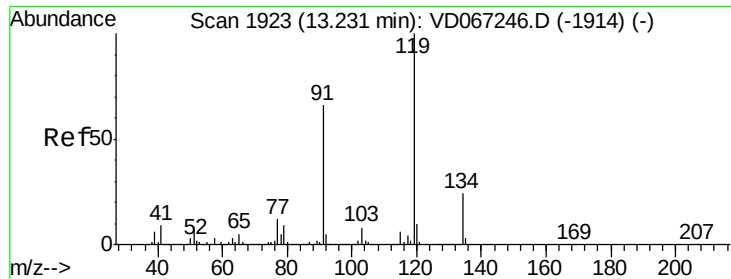
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#82
4-Chlorotoluene
Concen: 4.126 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion: 91 Resp: 44853
Ion Ratio Lower Upper
91 100
126 33.6 17.8 53.5





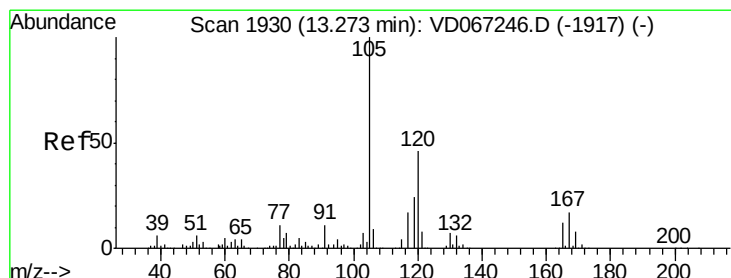
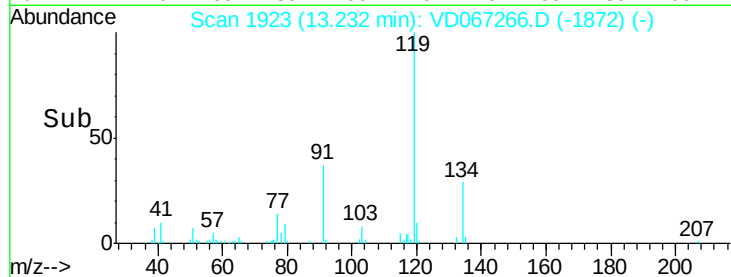
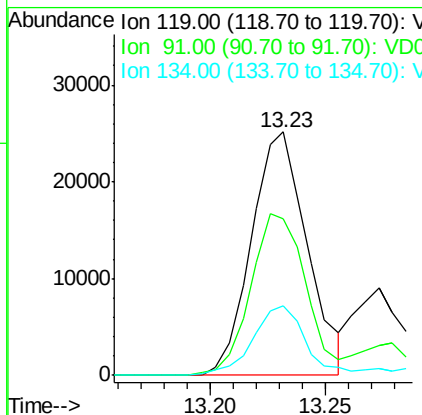
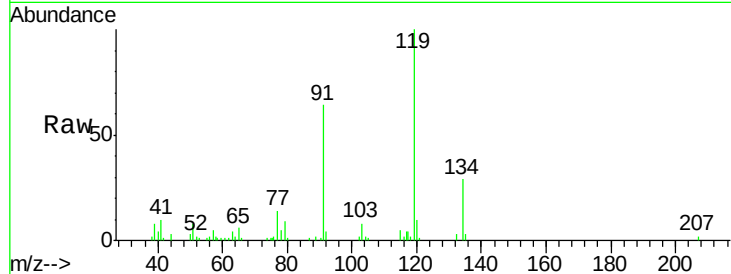
#83
tert-Butylbenzene
Concen: 3.781 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.2	33.1	99.2
134	27.1	13.3	39.9

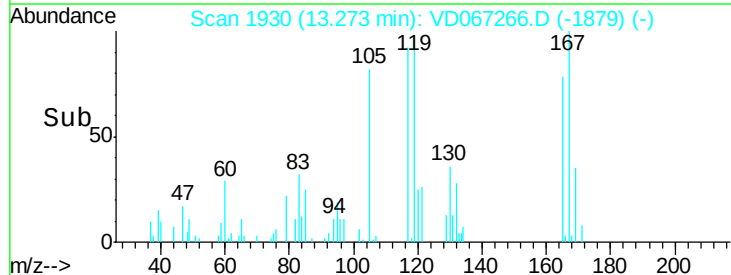
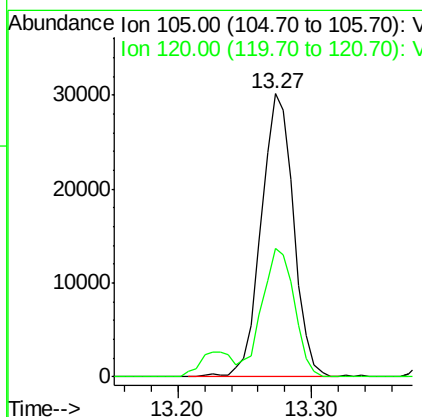
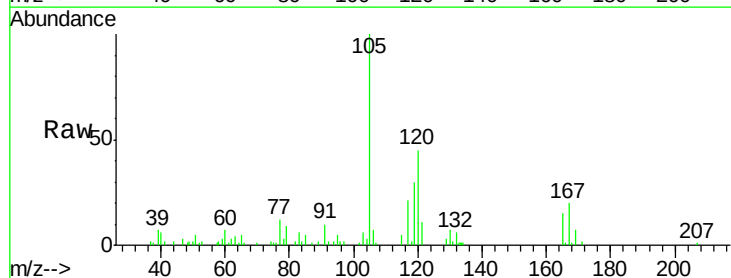
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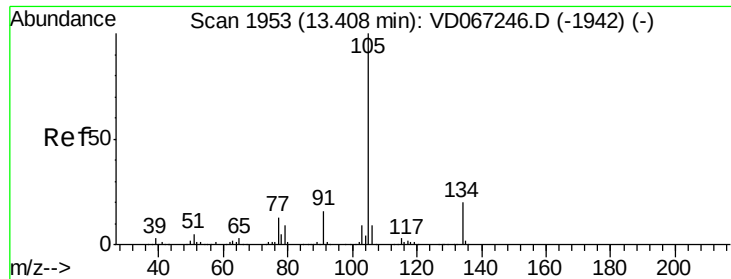
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#84
1,2,4-Trimethylbenzene
Concen: 3.863 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.4	67.3





#85

sec-Butylbenzene

Concen: 3.893 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 59763

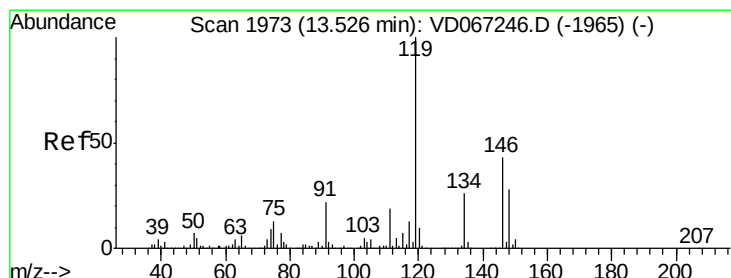
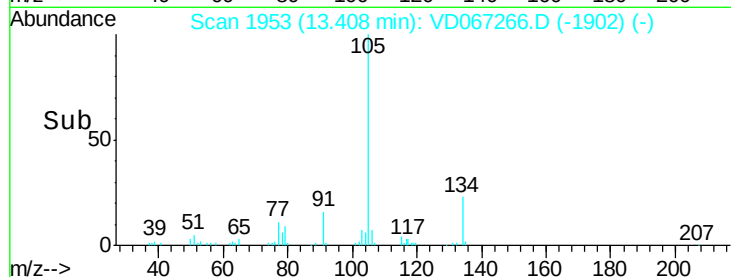
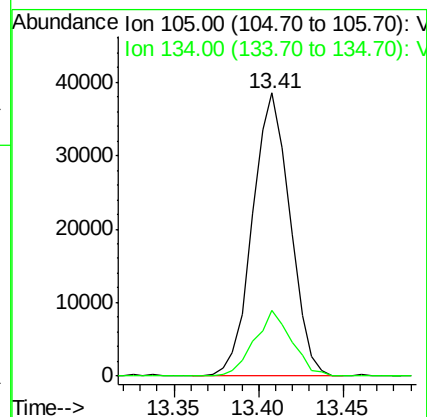
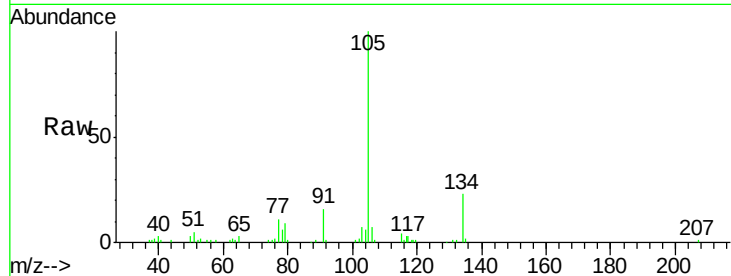
Ion Ratio Lower Upper

105 100

134 22.9 10.5 31.5

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 3.826 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

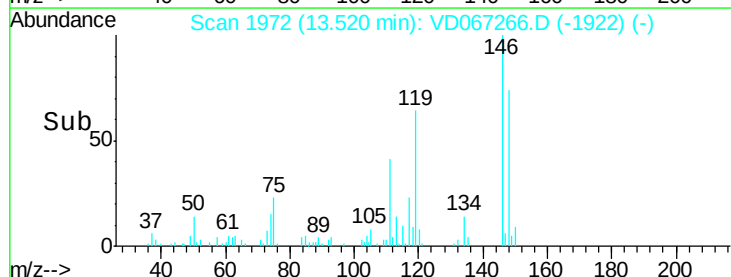
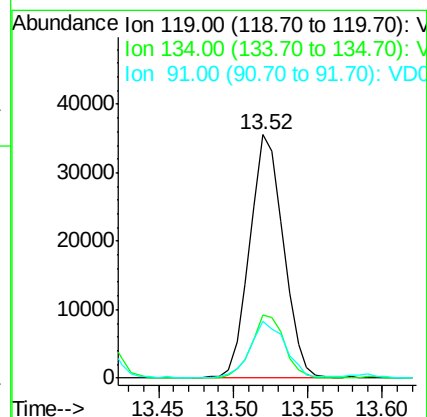
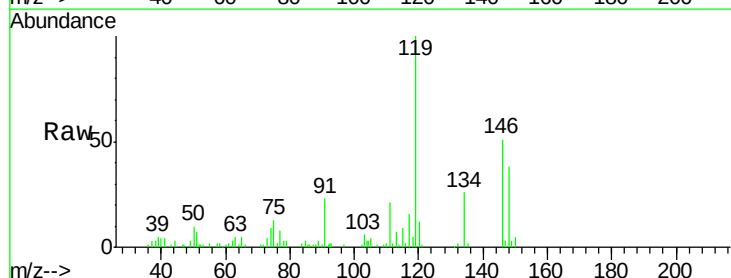
Tgt Ion:119 Resp: 55447

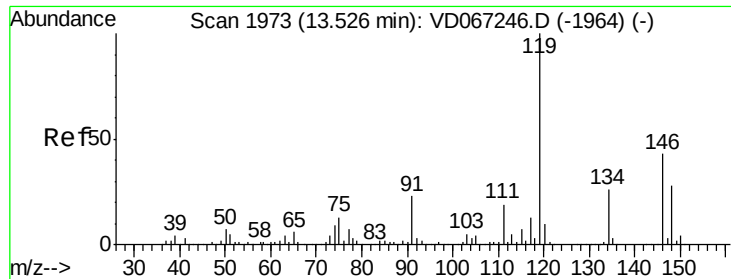
Ion Ratio Lower Upper

119 100

134 25.2 13.1 39.3

91 24.6 11.9 35.9





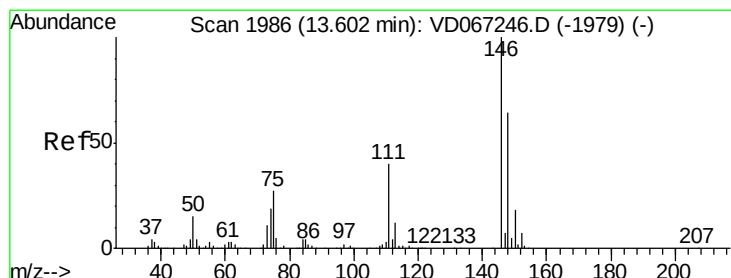
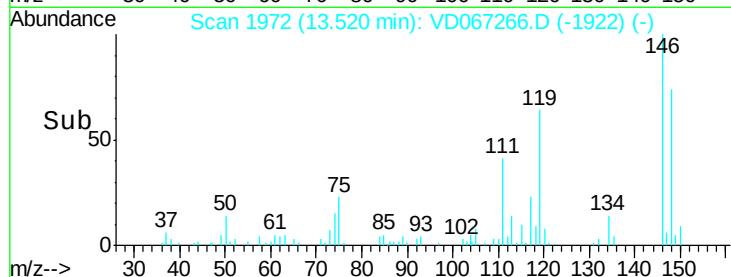
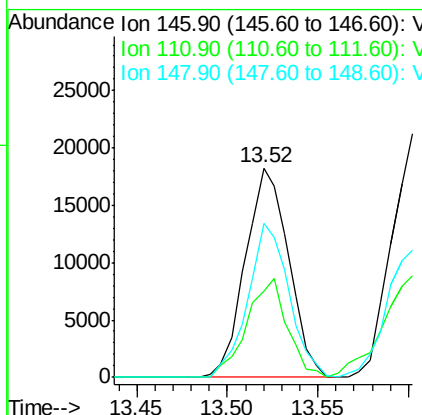
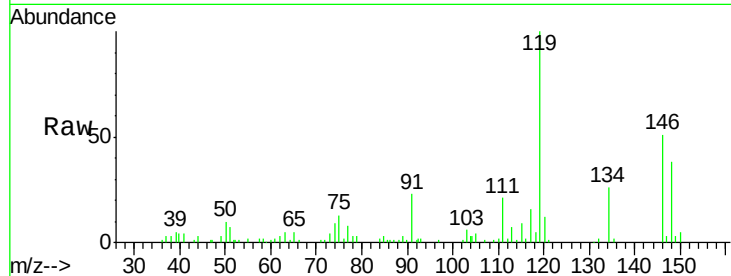
#87
 1,3-Dichlorobenzene
 Concen: 4.136 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.1	63.3
148	69.8	31.9	95.9

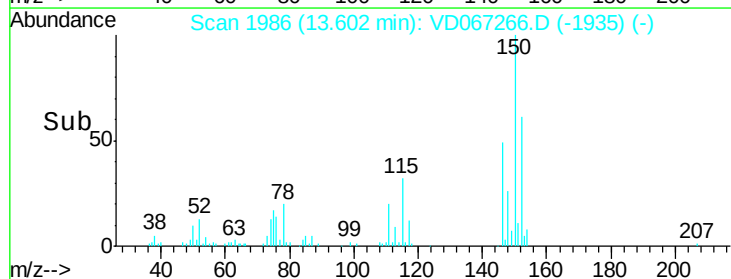
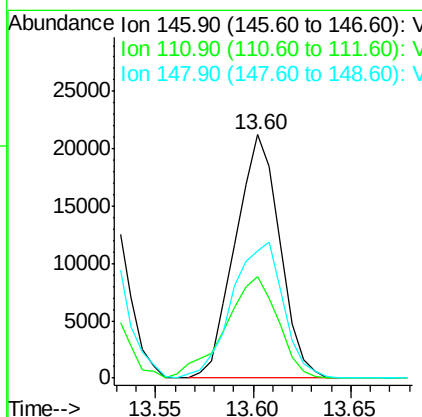
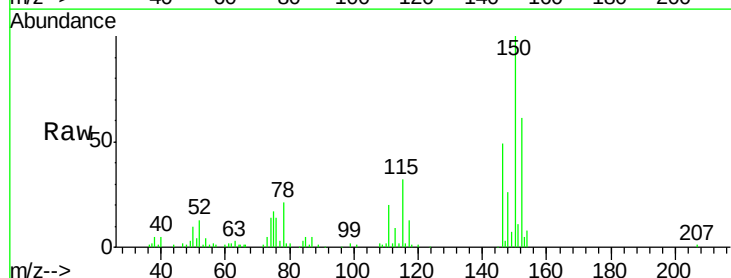
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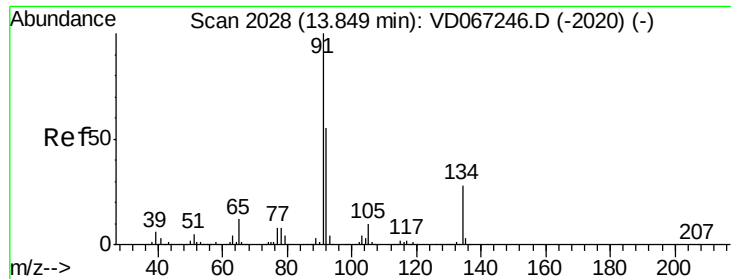
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#88
 1,4-Dichlorobenzene
 Concen: 4.642 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.0	19.9	59.7
148	64.3	31.9	95.9





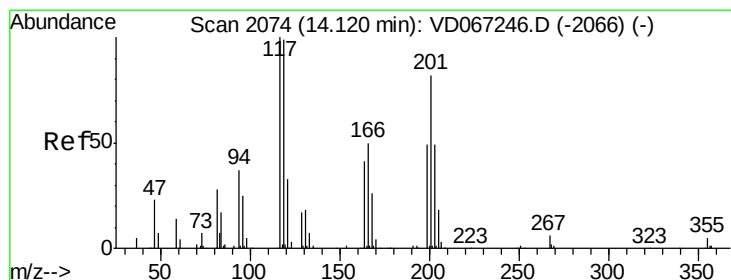
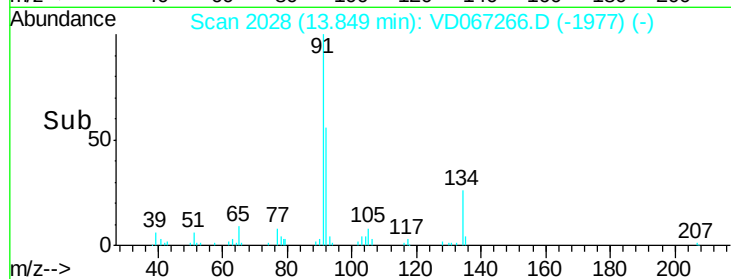
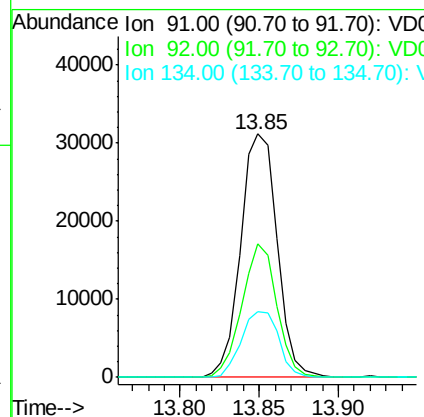
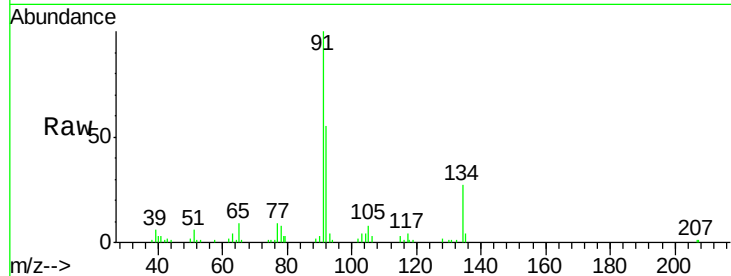
#89
n-Butylbenzene
Concen: 3.898 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.7	80.0
134	27.7	14.2	42.6

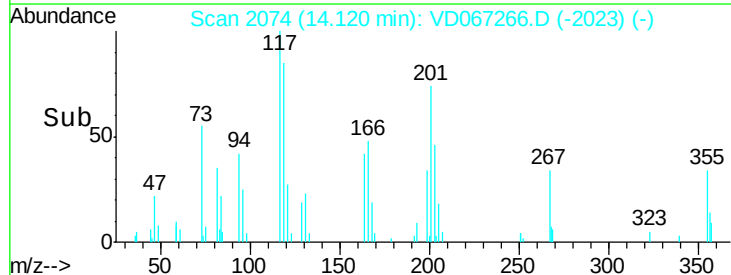
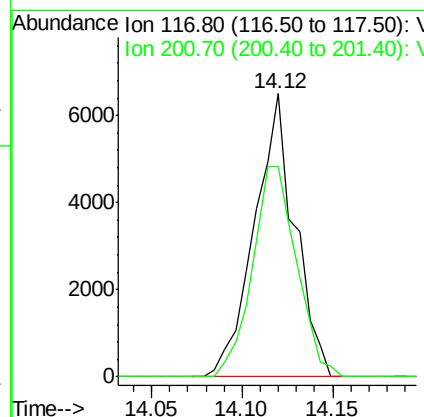
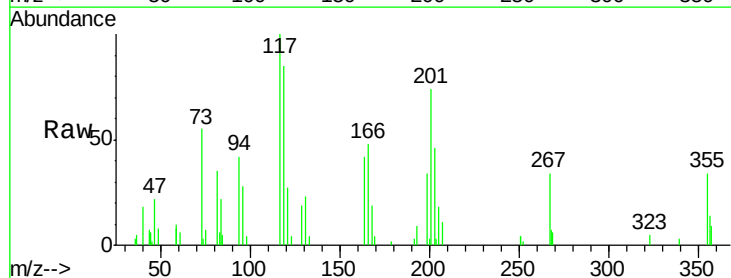
Manual Integrations
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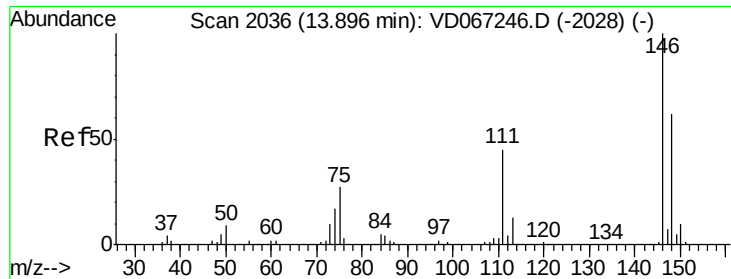
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#90
Hexachloroethane
Concen: 3.991 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD067266.D
Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.0	40.8	122.2





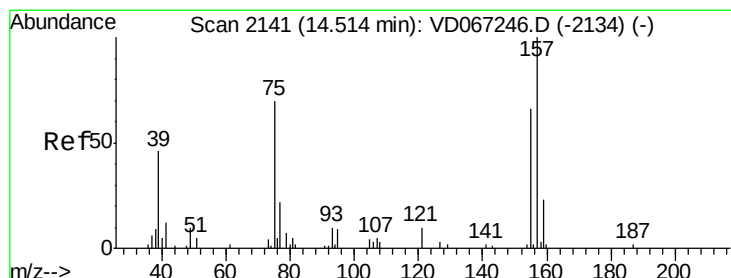
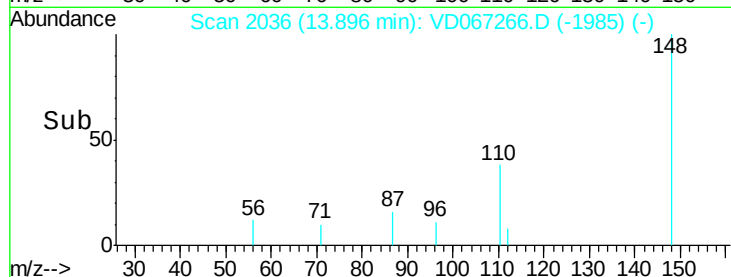
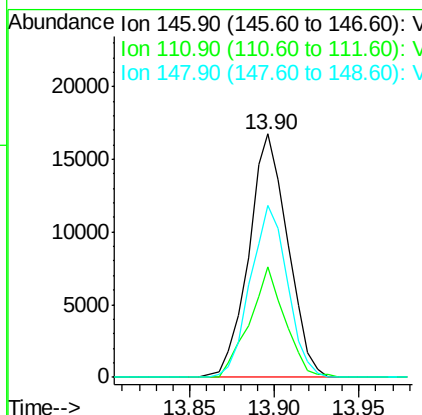
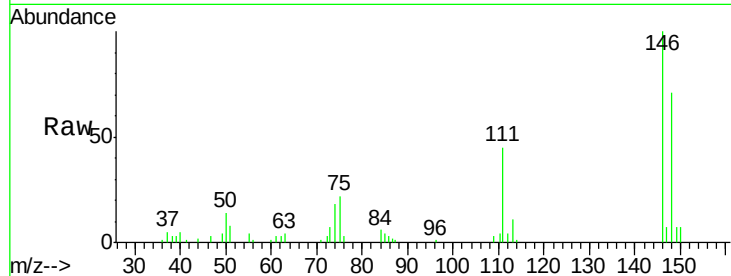
#91
 1,2-Dichlorobenzene
 Concen: 4.214 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	22.0	66.0
148	67.0	32.5	97.5

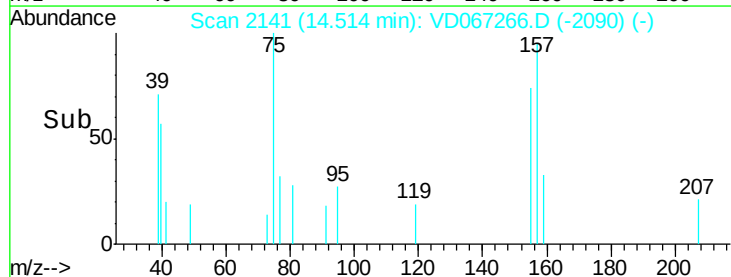
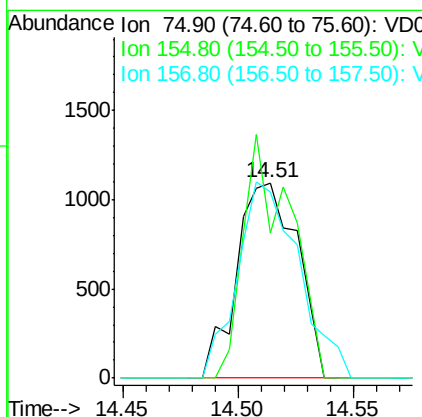
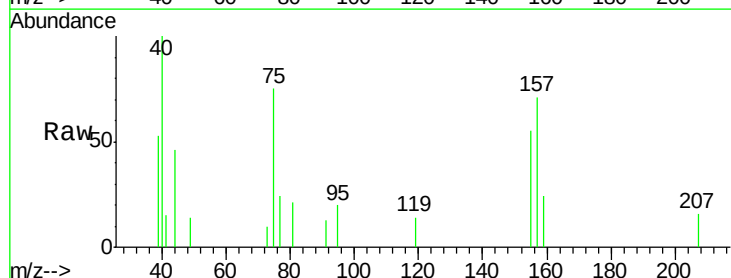
Manual Integrations
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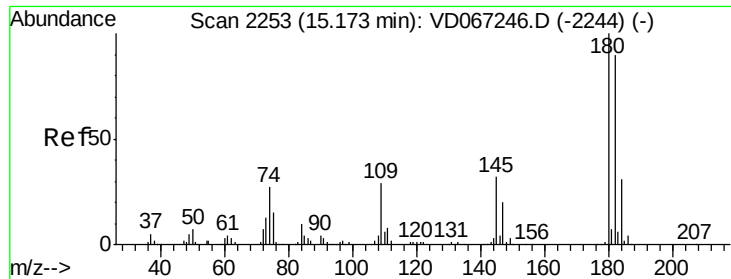
MMDadoda
 10/15/2020 12:18:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.695 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.6	44.8	134.4
157	102.3	62.5	187.4





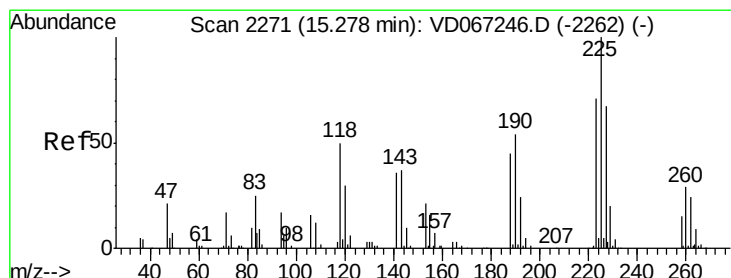
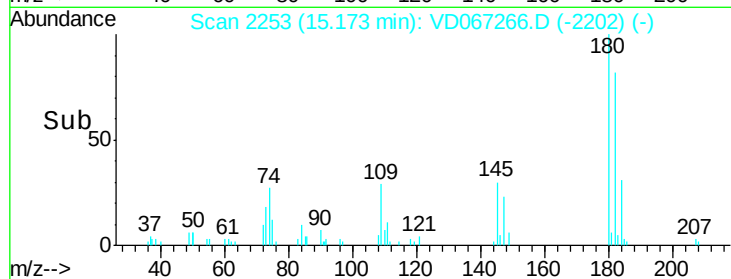
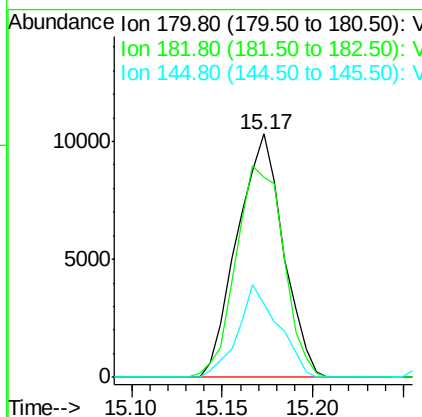
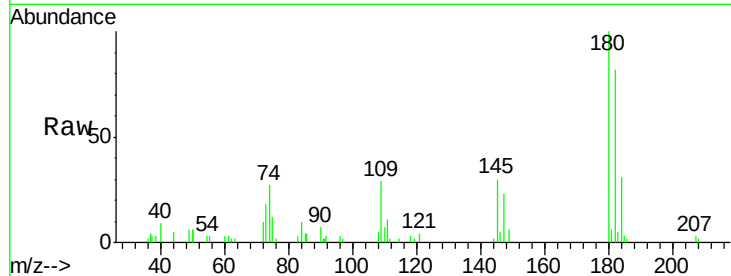
#93
 1,2,4-Trichlorobenzene
 Concen: 4.230 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.9	48.1	144.4
145	33.5	16.3	48.9

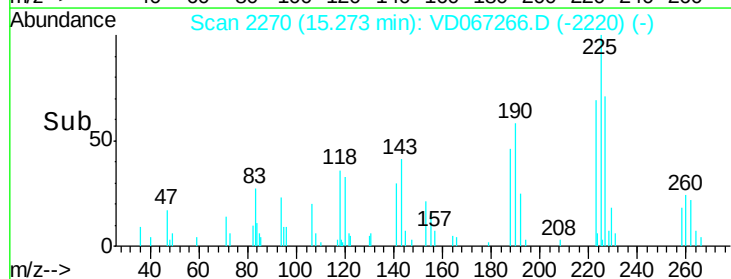
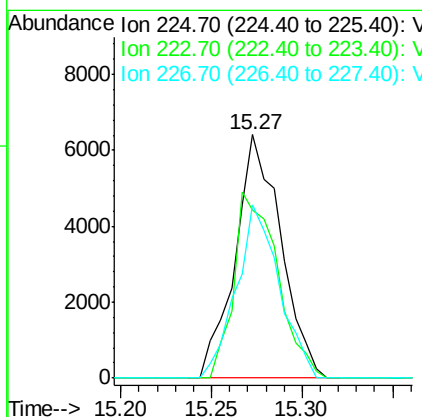
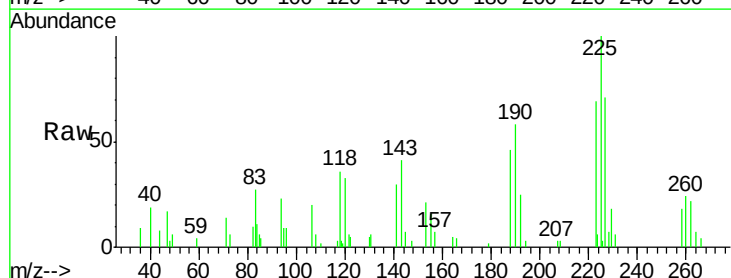
Manual Integrations
 APPROVED

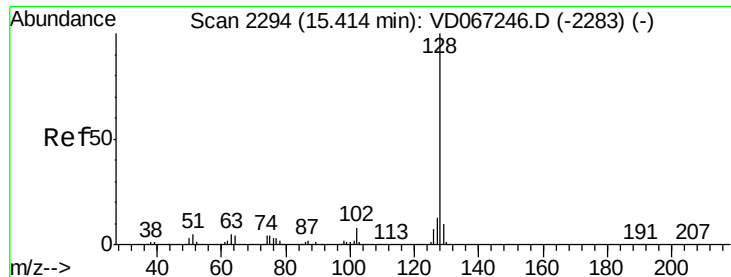
MMDadoda
 10/15/2020 12:18:50 PM



#94
 Hexachlorobutadiene
 Concen: 4.211 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: VD067266.D
 Acq: 14 Oct 2020 12:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.8	31.9	95.7
227	66.5	31.2	93.6





#95

Naphthalene

Concen: 3.796 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Instrument :

MSVOA_D

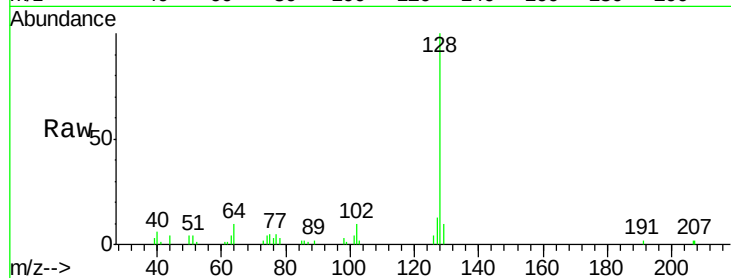
ClientSampleId :

MDL-SOIL-03-QT4-2020

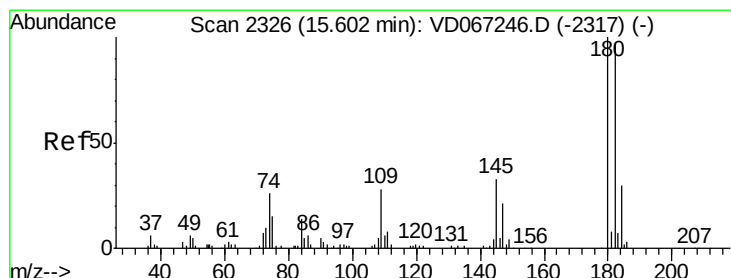
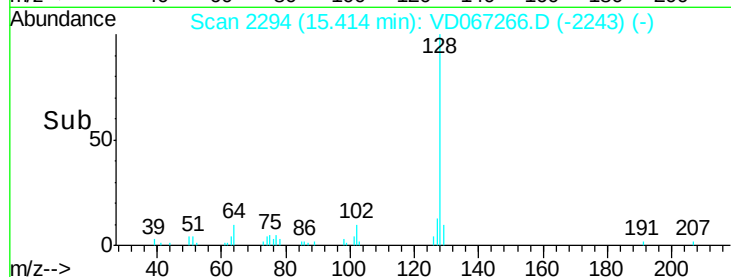
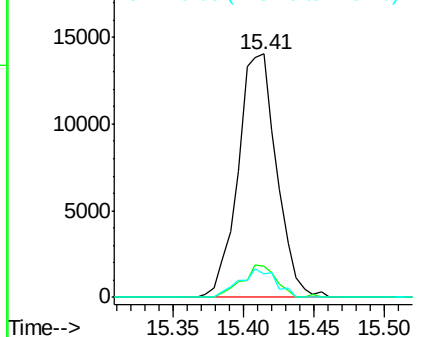
Tot Ion:	128	Resp:	26848
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.4	15.6
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
10/15/2020 12:18:50 PM



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



#96

1,2,3-Trichlorobenzene

Concen: 3.892 ug/l

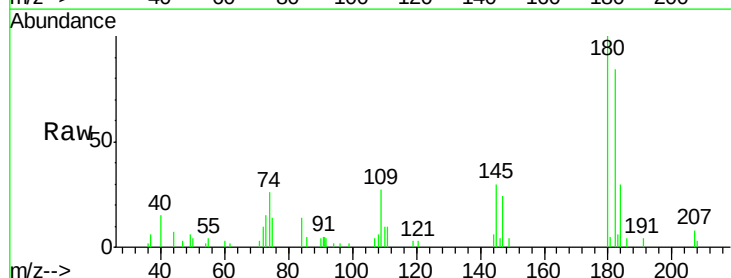
RT: 15.60 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VD067266.D

Acq: 14 Oct 2020 12:59

Tgt Ion:	180	Resp:	14487
Ion Ratio	Lower	Upper	
180	100		
182	93.3	48.1	144.3
145	34.2	17.3	51.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

