

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100419\
 Data File : VD063890.D
 Acq On : 04 Oct 2019 17:39
 Operator : VA/SY
 Sample : K5111-02 5PPB L00
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/8/2019 3:11:42 PM

Quant Time: Oct 05 03:50:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	178997	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	292725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	286521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	142342	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	10175	5.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.68%	
35) Dibromofluoromethane	7.91	113	10471	5.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.70%	
50) Toluene-d8	10.34	98	40741	5.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.22%	
62) 4-Bromofluorobenzene	12.63	95	13406	5.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.62%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.99	85	5943	4.682	ug/l #	57
3) Chloromethane	2.21	50	22514	5.791	ug/l	98
4) Vinyl Chloride	2.35	62	21704	5.290	ug/l	94
5) Bromomethane	2.77	94	13967	5.295	ug/l	99
6) Chloroethane	2.92	64	15475	5.703	ug/l #	89
7) Trichlorofluoromethane	3.27	101	30610	5.643	ug/l	98
8) Diethyl Ether	3.71	74	5480	6.294	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	8473	5.643	ug/l	97
10) Methyl Iodide	4.30	142	10484	5.067	ug/l	95
11) Tert butyl alcohol	5.25	59	3212m	25.986	ug/l	
12) 1,1-Dichloroethene	4.06	96	8740	5.826	ug/l #	67
13) Acrolein	3.93	56	3851	24.742	ug/l #	70
14) Allyl chloride	4.72	41	13153m	5.274	ug/l	
15) Acrylonitrile	5.42	53	10958	28.547	ug/l	95
16) Acetone	4.17	43	12127m	26.728	ug/l	
17) Carbon Disulfide	4.40	76	27240	4.995	ug/l #	90
18) Methyl Acetate	4.73	43	6374	7.183	ug/l #	78
19) Methyl tert-butyl Ether	5.48	73	19743	5.082	ug/l	92
20) Methylene Chloride	4.96	84	18662	8.014	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	9793m	5.244	ug/l	
22) Diisopropyl ether	6.37	45	27663	5.431	ug/l	90
23) Vinyl Acetate	6.31	43	78828	26.014	ug/l	98
24) 1,1-Dichloroethane	6.27	63	19415	6.188	ug/l	96
25) 2-Butanone	7.23	43	14275	26.548	ug/l	99
26) 2,2-Dichloropropane	7.20	77	14216	5.009	ug/l #	53
27) cis-1,2-Dichloroethene	7.21	96	10574	5.002	ug/l	89
28) Bromochloromethane	7.55	49	7255	6.171	ug/l #	87
29) Tetrahydrofuran	7.57	42	8953	28.527	ug/l	89
30) Chloroform	7.72	83	18318	5.375	ug/l	100
31) Cyclohexane	7.98	56	18430	6.265	ug/l #	82
32) 1,1,1-Trichloroethane	7.90	97	15480	5.296	ug/l	95
36) 1,1-Dichloropropene	8.12	75	13673	5.109	ug/l	95
37) Ethyl Acetate	7.31	43	6850	5.640	ug/l #	94
38) Carbon Tetrachloride	8.09	117	14206	5.252	ug/l #	80

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	16470	5.005	ug/l	98
40) Benzene	8.35	78	39578	5.160	ug/l	100
41) Methacrylonitrile	7.53	41	3688	5.943	ug/l #	44
42) 1,2-Dichloroethane	8.43	62	11552	5.207	ug/l	96
43) Isopropyl Acetate	8.46	43	12002	5.347	ug/l #	63
44) Trichloroethene	9.11	130	11890	5.376	ug/l	98
45) 1,2-Dichloropropane	9.39	63	9823	5.232	ug/l	98
46) Dibromomethane	9.48	93	5786	5.412	ug/l	91
47) Bromodichloromethane	9.67	83	13432	4.880	ug/l #	96
48) Methyl methacrylate	9.46	41	4552	4.233	ug/l #	86
49) 1,4-Dioxane	9.47	88	1783	122.173	ug/l #	53
51) 4-Methyl-2-Pentanone	10.24	43	30079	25.839	ug/l	99
52) Toluene	10.41	92	25217	4.789	ug/l	94
53) t-1,3-Dichloropropene	10.62	75	11966	4.455	ug/l #	89
54) cis-1,3-Dichloropropene	10.09	75	15028	4.860	ug/l #	88
55) 1,1,2-Trichloroethane	10.80	97	7721	5.115	ug/l #	90
56) Ethyl methacrylate	10.66	69	8795	4.601	ug/l #	83
57) 1,3-Dichloropropane	10.94	76	13415	5.194	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	21532	26.203	ug/l	99
59) 2-Hexanone	10.98	43	19948	23.689	ug/l	97
60) Dibromochloromethane	11.14	129	8895	4.526	ug/l	89
61) 1,2-Dibromoethane	11.25	107	7131	4.873	ug/l	95
64) Tetrachloroethene	10.88	164	10366	5.300	ug/l #	88
65) Chlorobenzene	11.67	112	29824	5.183	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.74	131	9496	4.479	ug/l	92
67) Ethyl Benzene	11.74	91	52491	5.059	ug/l	100
68) m/p-Xylenes	11.86	106	37644	9.400	ug/l	96
69) o-Xylene	12.18	106	17295	4.510	ug/l	97
70) Styrene	12.19	104	29618	4.562	ug/l	98
71) Bromoform	12.36	173	5239	4.604	ug/l #	100
73) Isopropylbenzene	12.48	105	46384	4.847	ug/l	99
74) N-amyl acetate	12.29	43	11169	5.421	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.73	83	8821	5.298	ug/l	91
76) 1,2,3-Trichloropropane	12.78	75	6840m	7.175	ug/l	
77) Bromobenzene	12.76	156	12507	5.246	ug/l	93
78) n-propylbenzene	12.83	91	58292	5.190	ug/l	99
79) 2-Chlorotoluene	12.91	91	30017	4.847	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	38626	4.838	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	2405	4.464	ug/l #	85
82) 4-Chlorotoluene	13.01	91	34160	5.199	ug/l	98
83) tert-Butylbenzene	13.23	119	36160	5.090	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	37633	4.573	ug/l	98
85) sec-Butylbenzene	13.40	105	48803	5.086	ug/l	96
86) p-Isopropyltoluene	13.52	119	40887	4.503	ug/l	97
87) 1,3-Dichlorobenzene	13.51	146	22661	4.811	ug/l	97
88) 1,4-Dichlorobenzene	13.60	146	23127	4.977	ug/l	89
89) n-Butylbenzene	13.84	91	43921	5.197	ug/l	96
90) Hexachloroethane	14.11	117	8019	4.911	ug/l	91
91) 1,2-Dichlorobenzene	13.90	146	19596	4.827	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1220	4.235	ug/l	80

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LOQ-SOIL-02-QT4-2019

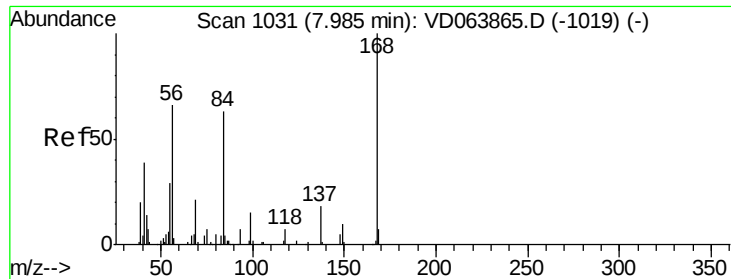
Manual Integrations
APPROVED

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10/8/2019 3:11:42 PM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	14861	4.744	ug/l	98
94) Hexachlorobutadiene	15.27	225	8030	4.646	ug/l	86
95) Naphthalene	15.40	128	25263	4.799	ug/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	14071	5.207	ug/l	94

(#) = 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: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:168 Resp: 178997

Ion Ratio Lower Upper

168 100

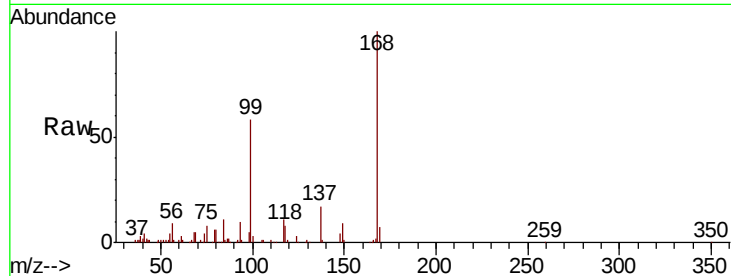
99 57.6 43.0 64.4

Manual Integrations

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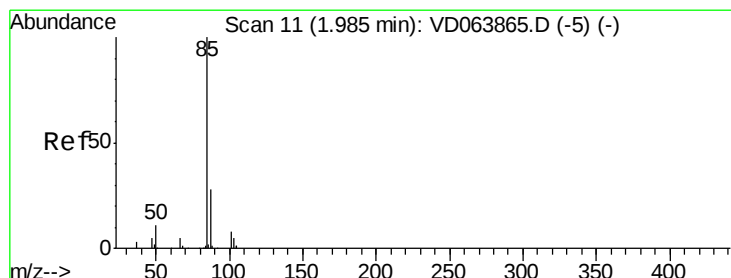
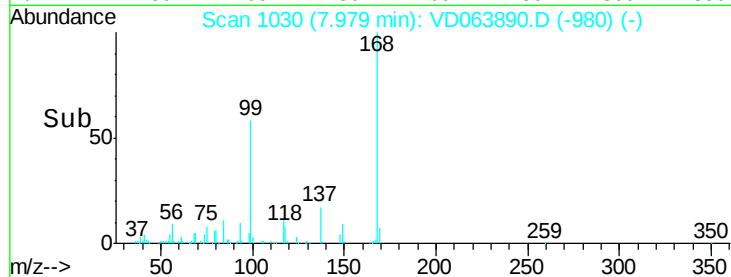
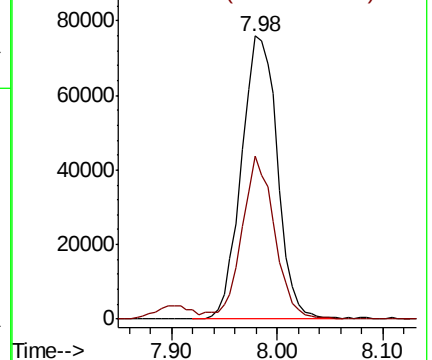
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.682 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063890.D

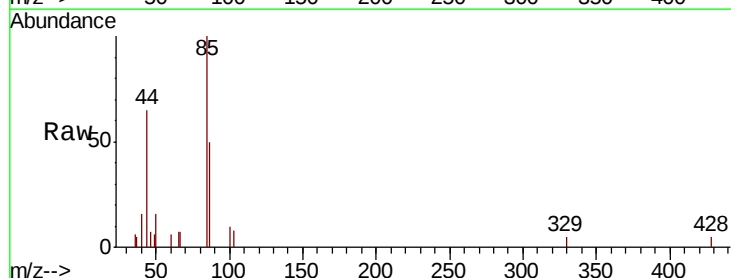
Acq: 04 Oct 2019 17:39

Tgt Ion: 85 Resp: 5943

Ion Ratio Lower Upper

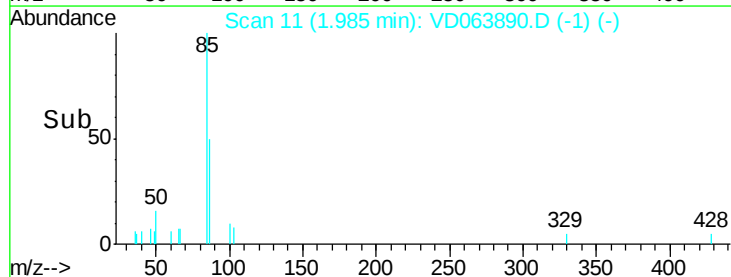
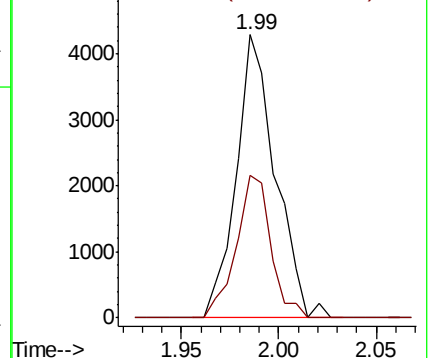
85 100

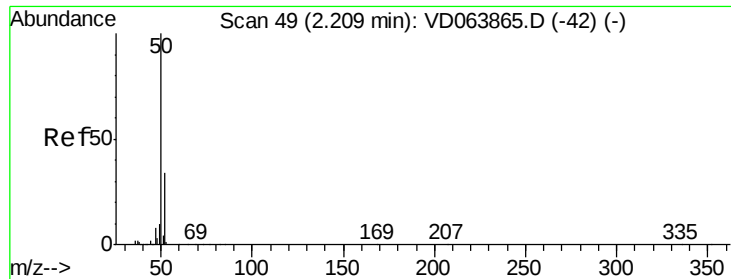
87 50.5 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 5.791 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 50 Resp: 22514

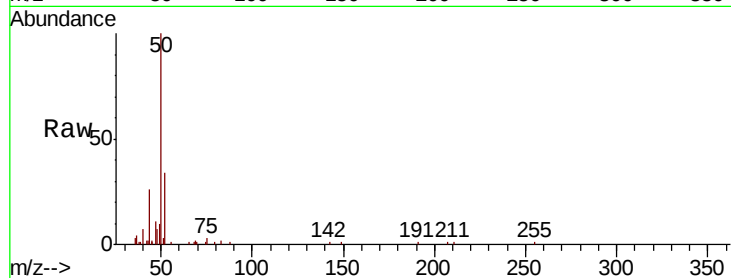
Ion Ratio Lower Upper

50 100

52 33.4 27.5 41.3

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

20000

15000

10000

5000

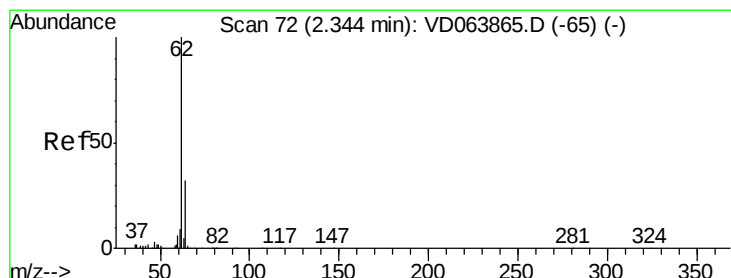
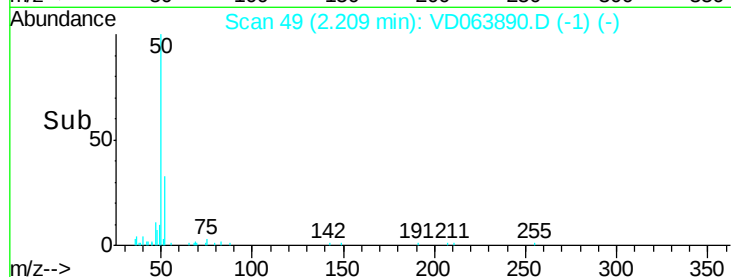
0

Time-->

2.15

2.20

2.25



#4

Vinyl Chloride

Concen: 5.290 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063890.D

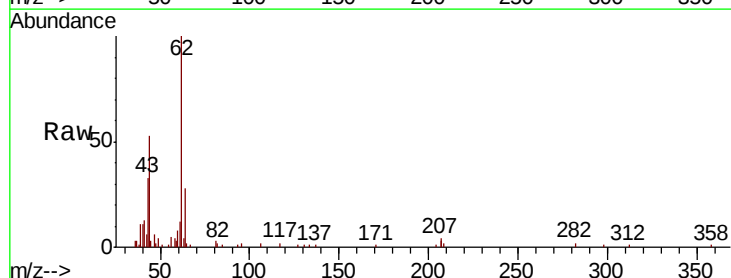
Acq: 04 Oct 2019 17:39

Tgt Ion: 62 Resp: 21704

Ion Ratio Lower Upper

62 100

64 28.3 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

15000

10000

5000

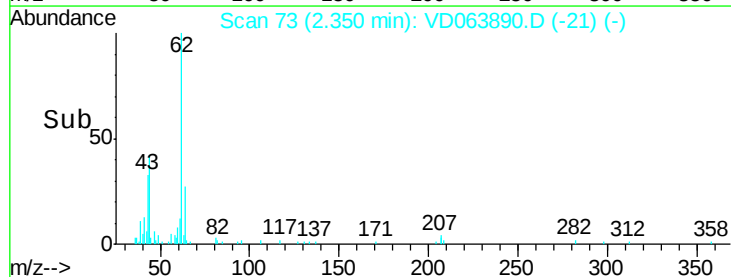
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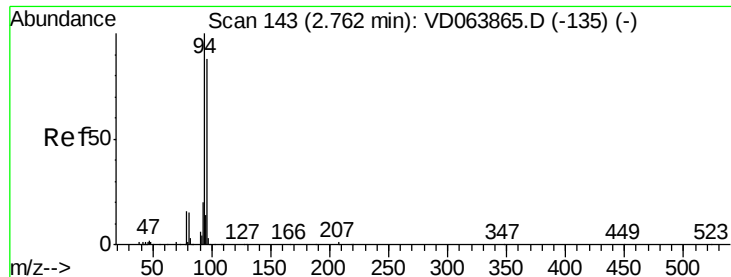
Time-->

2.30

2.35

2.40





#5

Bromomethane

Concen: 5.295 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 94 Resp: 13967

Ion Ratio Lower Upper

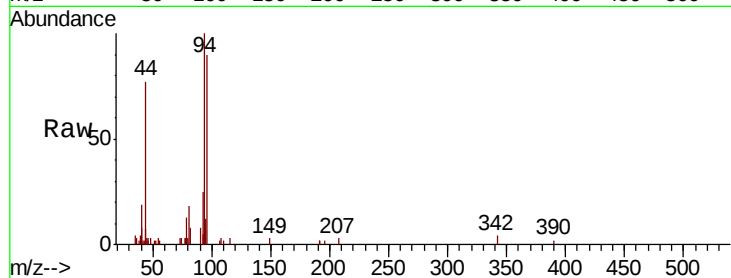
94 100

96 89.8 70.8 106.2

Manual Integrations
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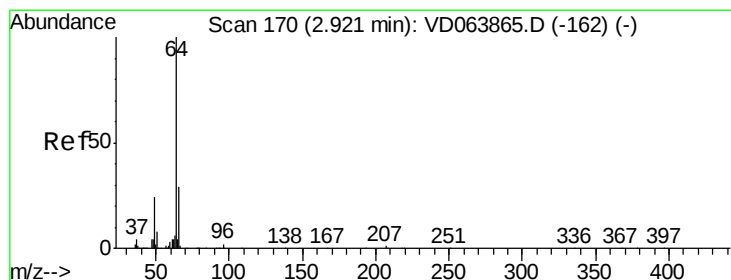
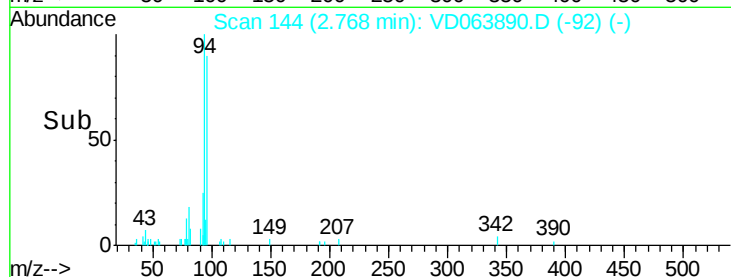
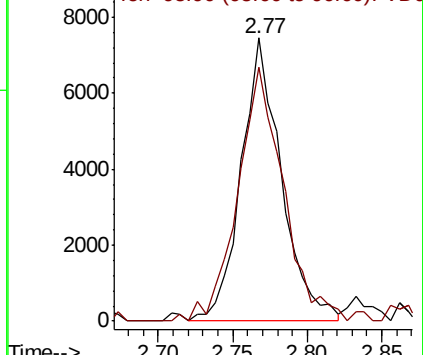
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 5.703 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD063890.D

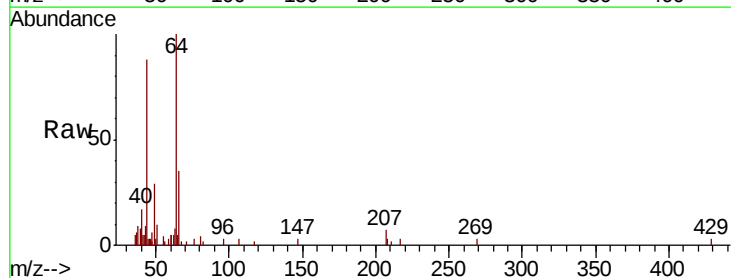
Acq: 04 Oct 2019 17:39

Tgt Ion: 64 Resp: 15475

Ion Ratio Lower Upper

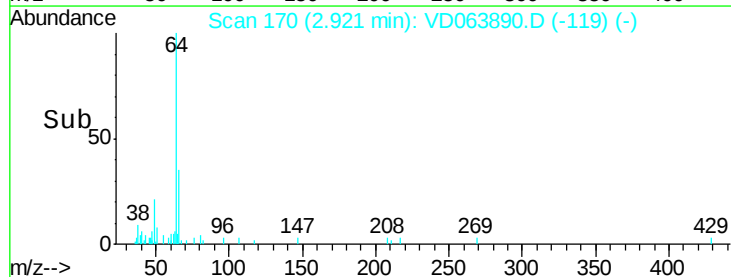
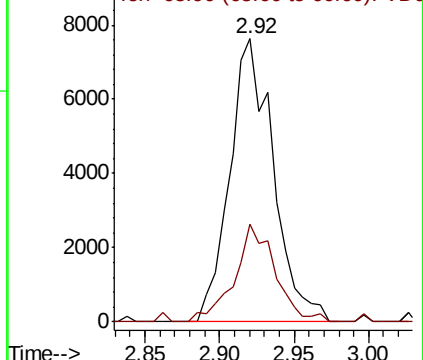
64 100

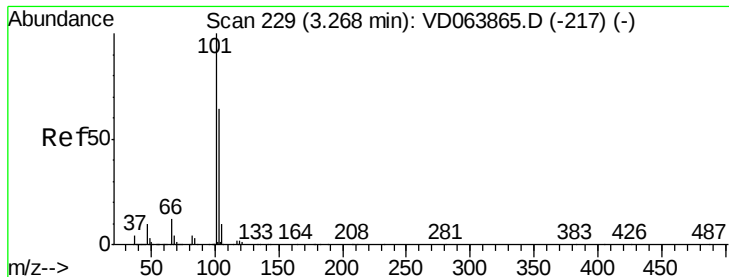
66 34.7 23.0 34.4#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

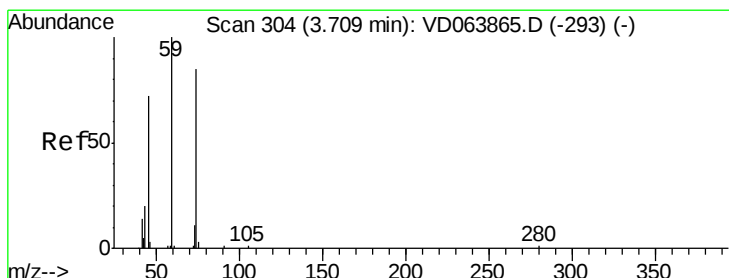
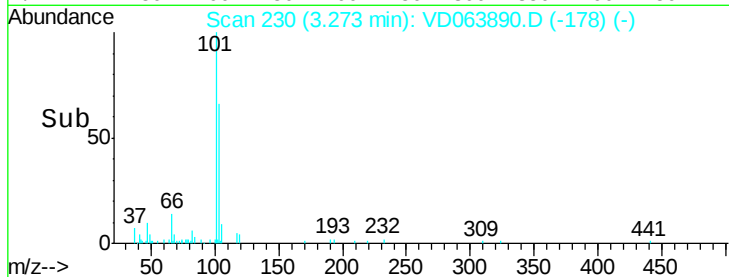
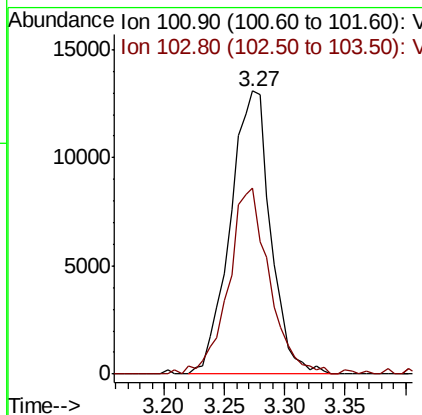
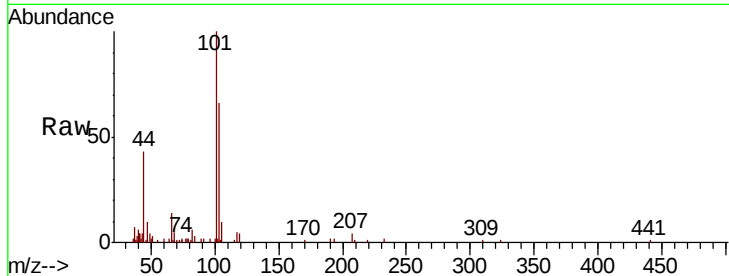
Trichlorofluoromethane
Concen: 5.643 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

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LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.1	76.7

Manual Integrations
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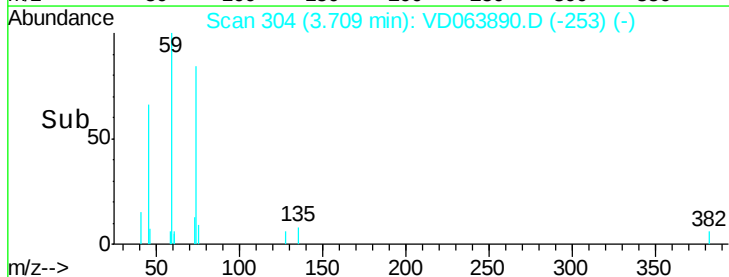
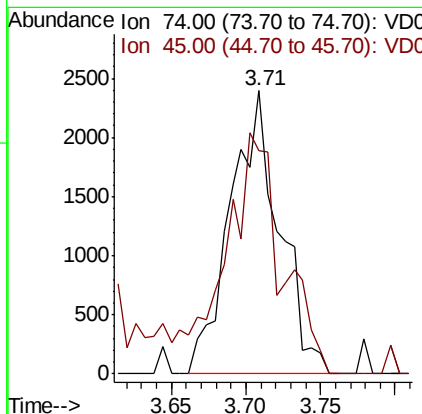
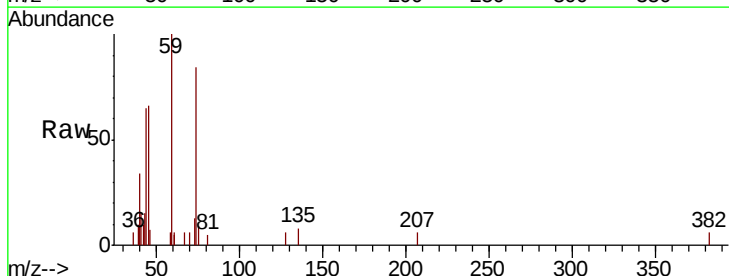
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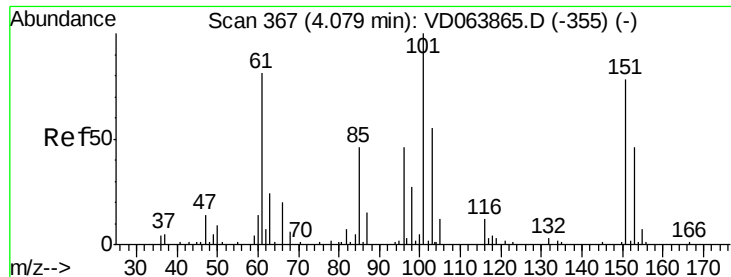


#8

Diethyl Ether
Concen: 6.294 ug/l
RT: 3.71 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.6	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.643 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

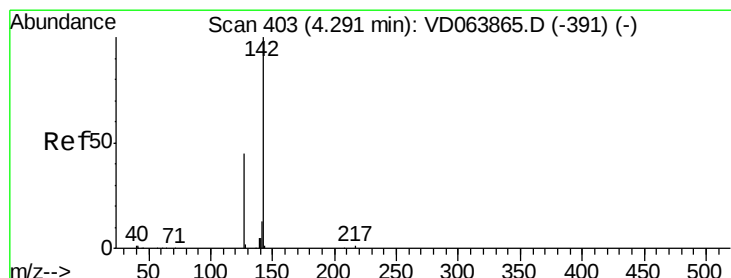
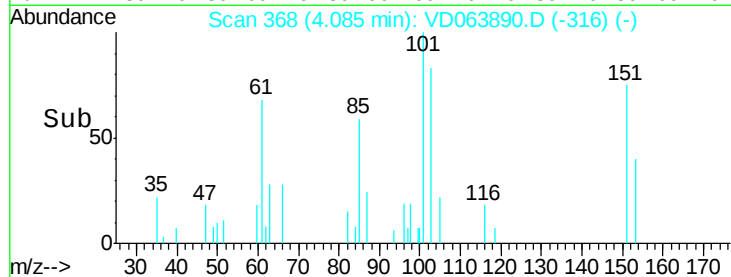
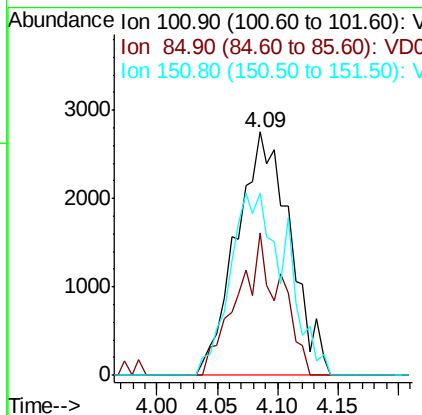
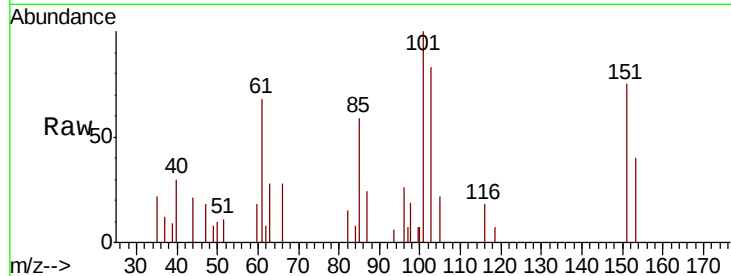
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	101	Resp:	8473
Ion Ratio	Lower	Upper	
101	100		
85	47.1	37.5	56.3
151	78.2	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 5.067 ug/l

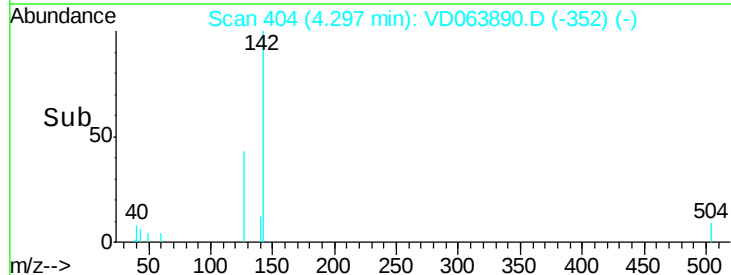
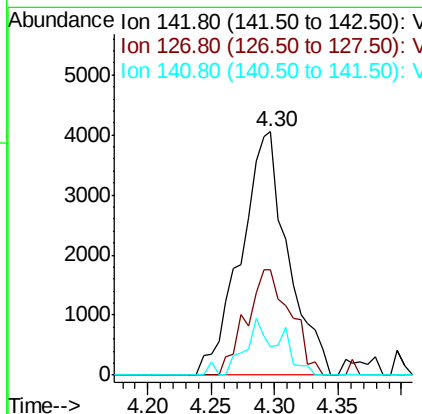
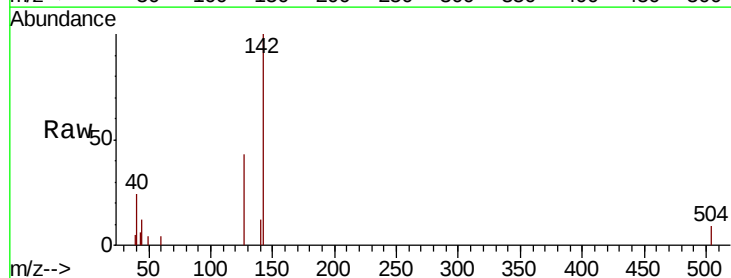
RT: 4.30 min Scan# 404

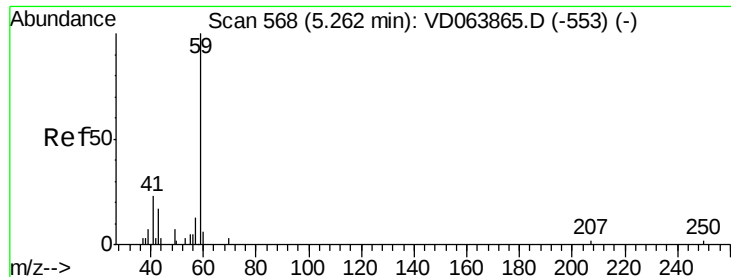
Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion:	142	Resp:	10484
Ion Ratio	Lower	Upper	
142	100		
127	40.6	35.3	52.9
141	16.7	12.2	18.2





#11

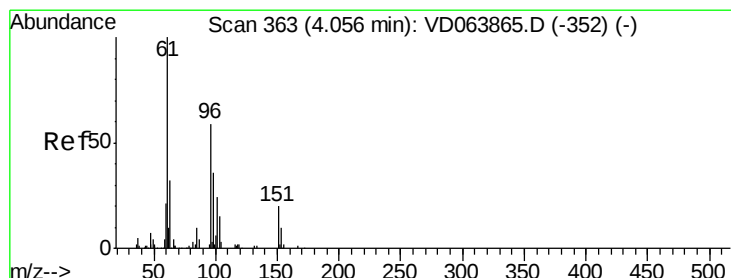
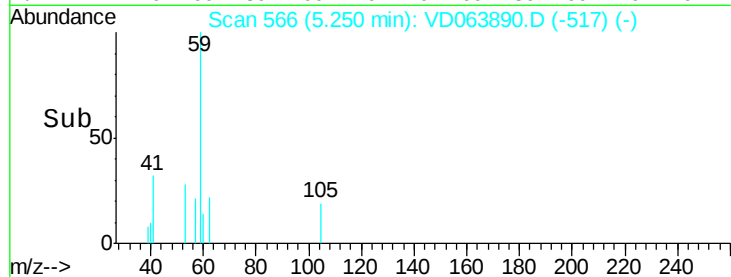
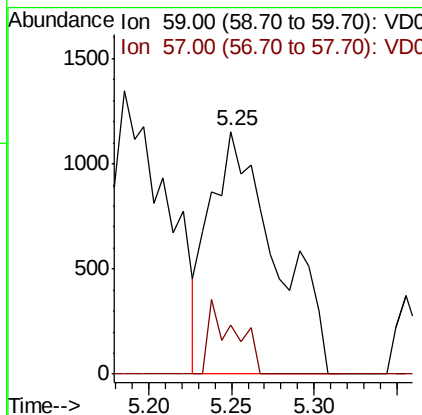
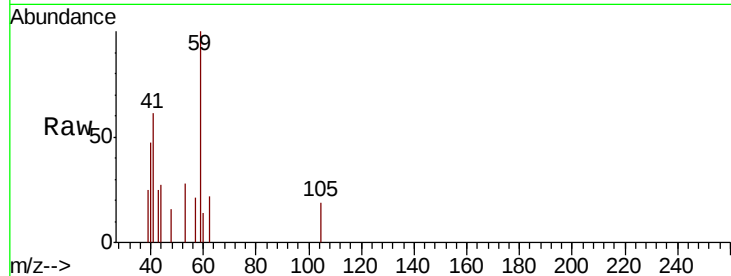
Tert butyl alcohol
 Concen: 25.986 ug/l m
 RT: 5.25 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.5	8.8	13.2

Manual Integrations
 APPROVED

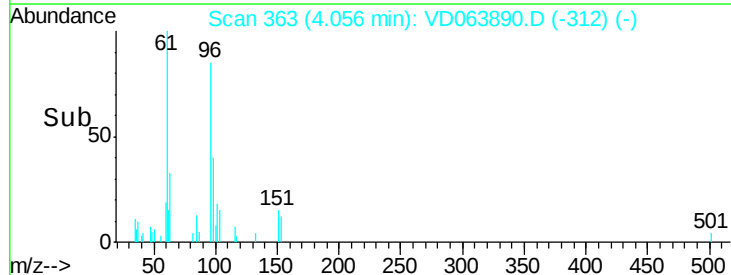
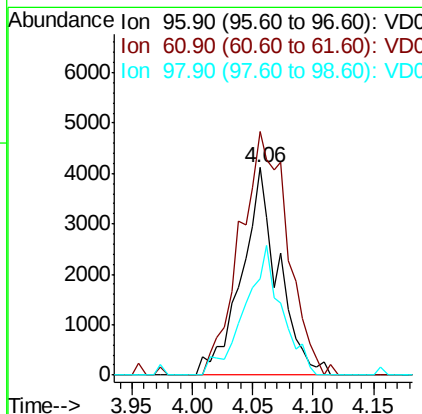
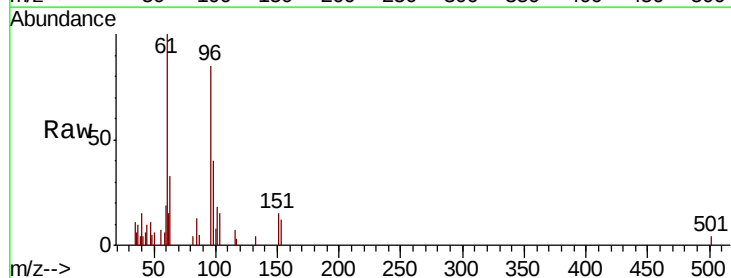
MMDadoda
 10/8/2019 3:11:42 PM

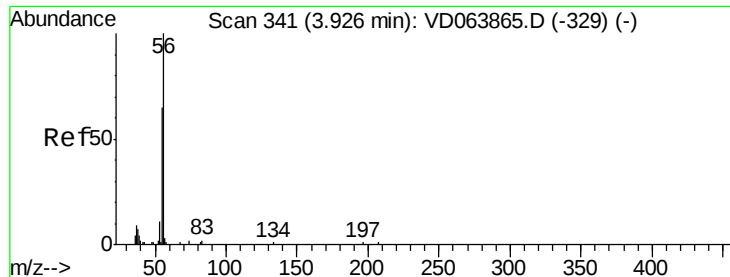


#12

1,1-Dichloroethene
 Concen: 5.826 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.2	135.6	203.4#
98	46.6	49.2	73.8#





#13

Acrolein

Concen: 24.742 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 56 Resp: 3851

Ion Ratio Lower Upper

56 100

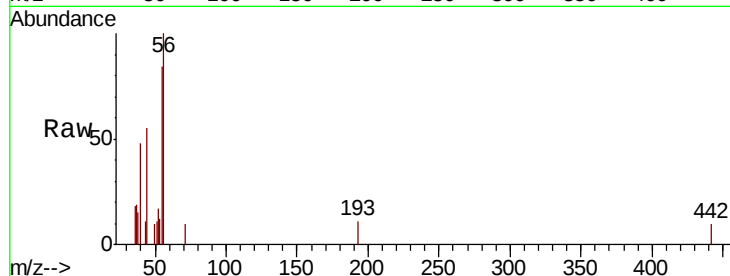
55 42.7 53.0 79.6#

Manual Integrations

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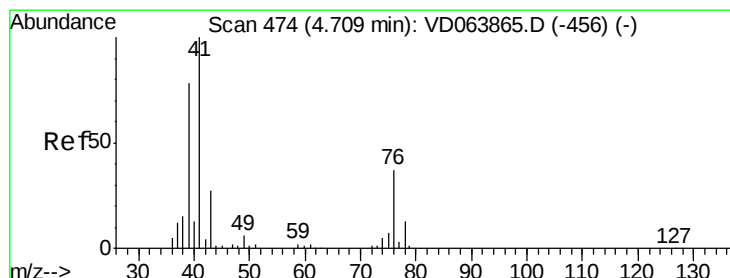
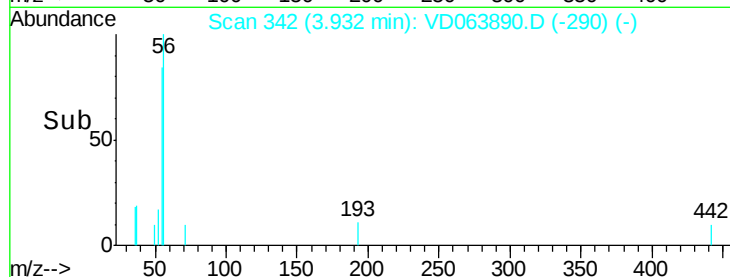
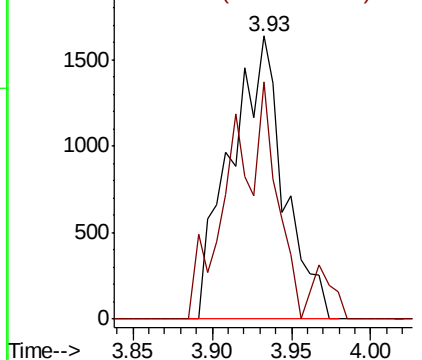
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 5.274 ug/l m

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

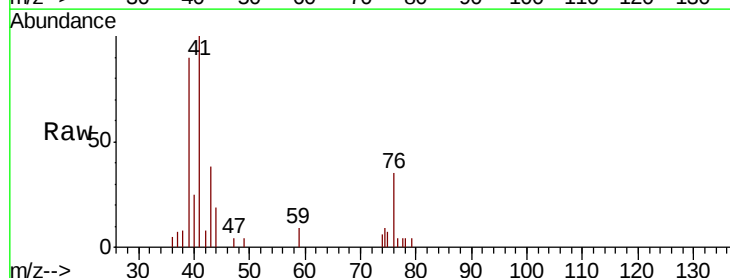
Tgt Ion: 41 Resp: 13153

Ion Ratio Lower Upper

41 100

39 81.5 61.8 92.6

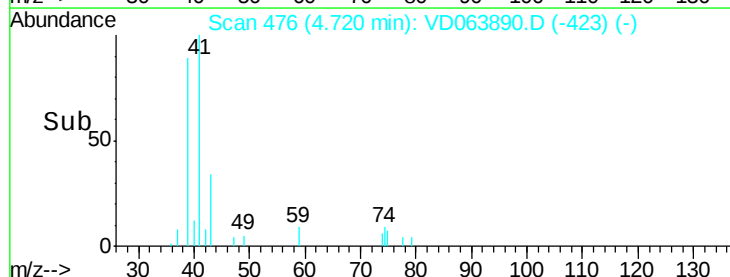
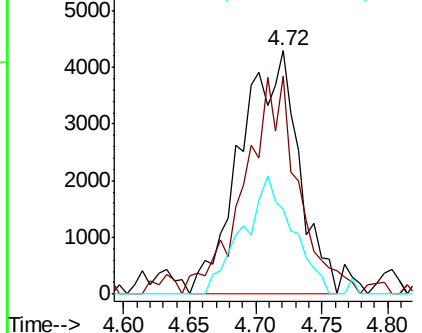
76 41.0 31.3 46.9

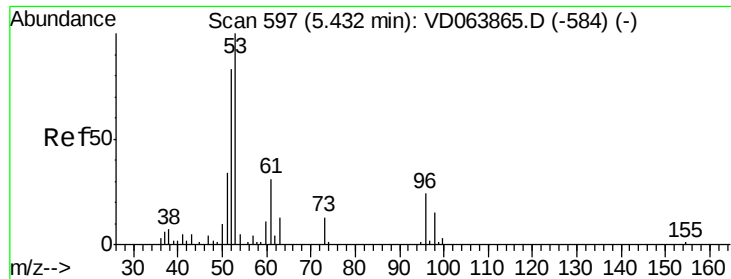


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 28.547 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

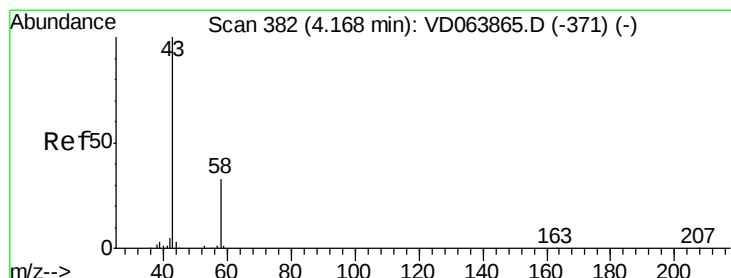
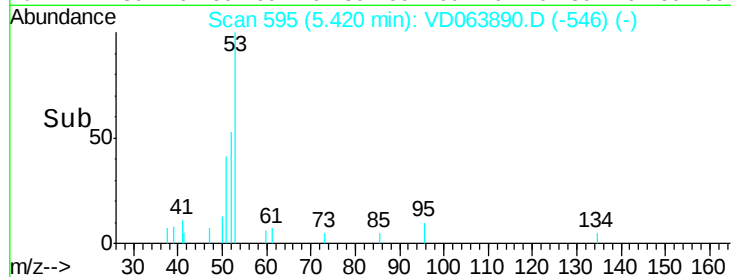
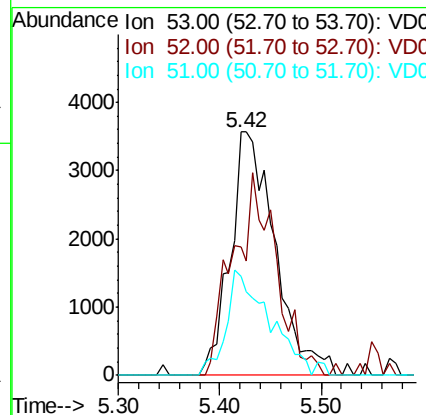
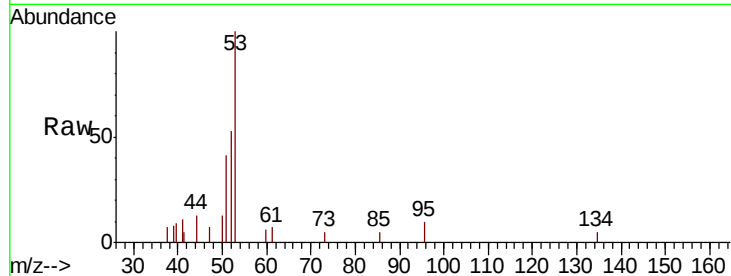
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	53	Resp:	10958
Ion	Ratio	Lower	Upper
53	100		
52	79.4	67.3	100.9
51	41.3	30.5	45.7

Manual Integrations
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#16

Acetone

Concen: 26.728 ug/l m

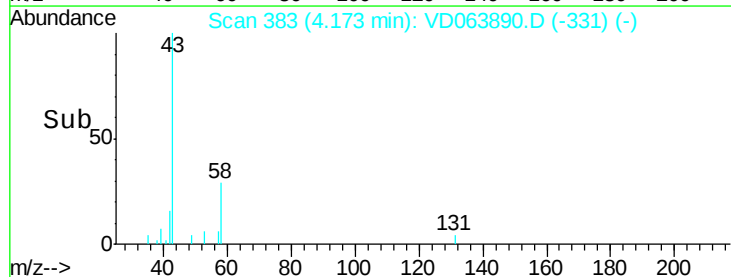
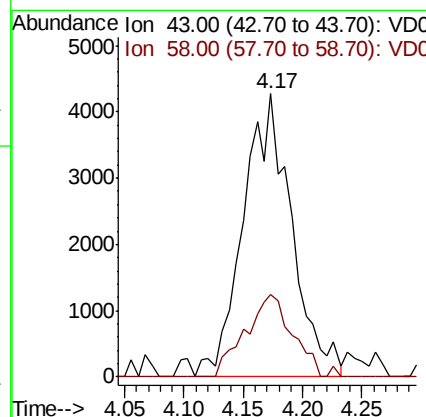
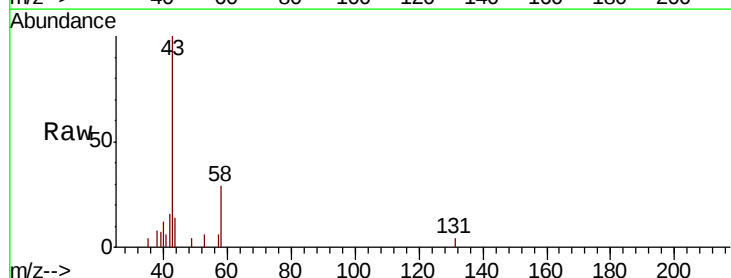
RT: 4.17 min Scan# 383

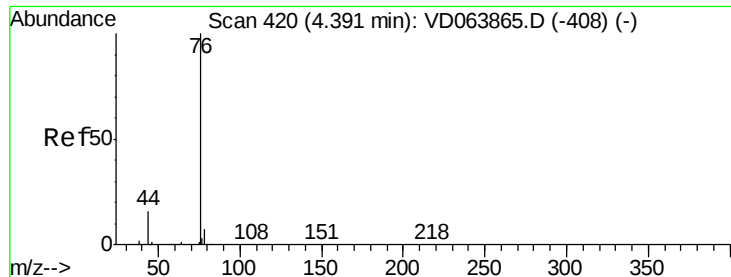
Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion:	43	Resp:	12127
Ion	Ratio	Lower	Upper
43	100		
58	29.2	26.2	39.4





#17

Carbon Disulfide

Concen: 4.995 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 76 Resp: 27240

Ion Ratio Lower Upper

76 100

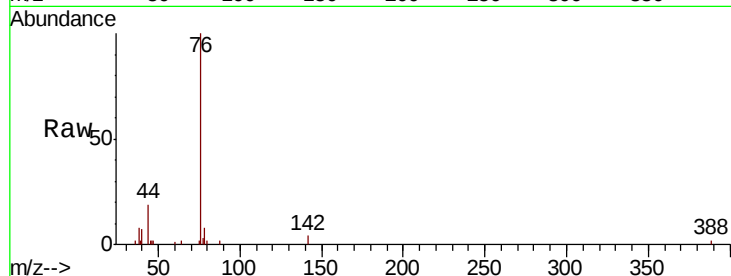
78 10.8 5.8 8.8#

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

12000

10000

8000

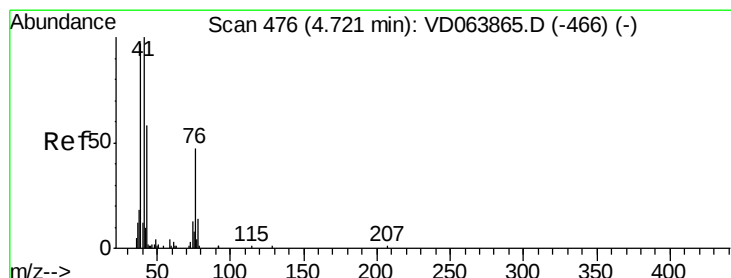
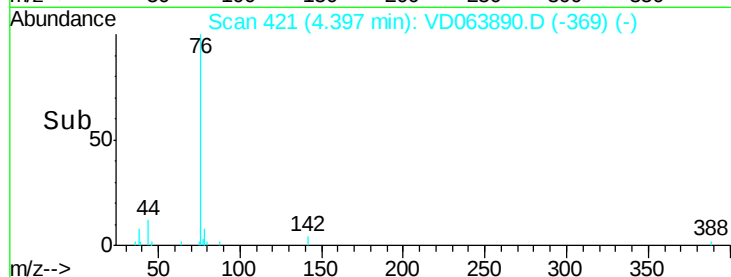
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 7.183 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD063890.D

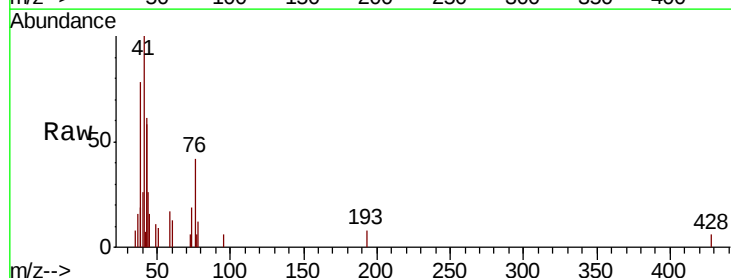
Acq: 04 Oct 2019 17:39

Tgt Ion: 43 Resp: 6374

Ion Ratio Lower Upper

43 100

74 14.8 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.73

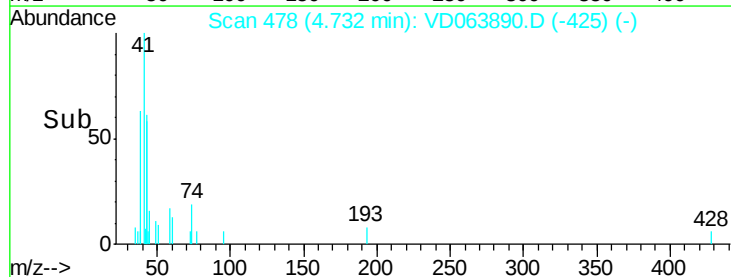
3000

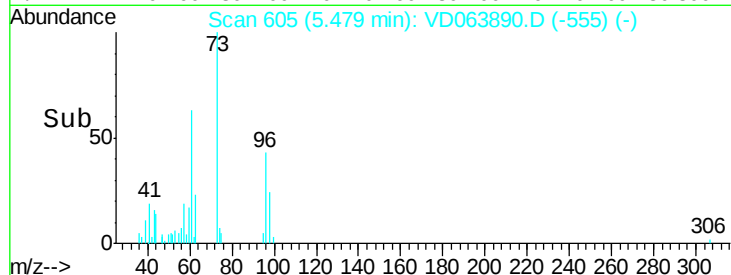
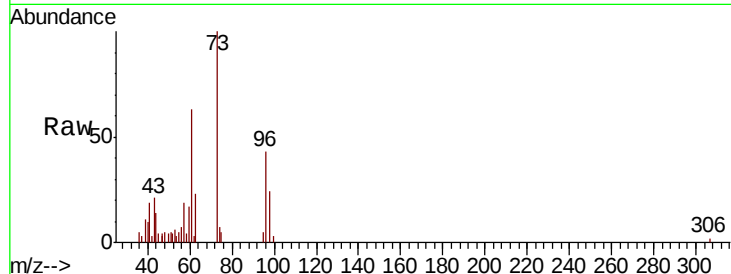
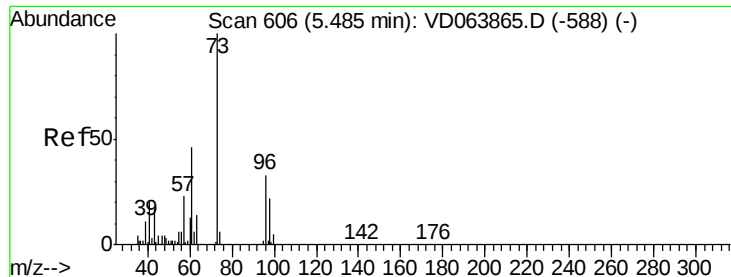
2000

1000

0

Time-->





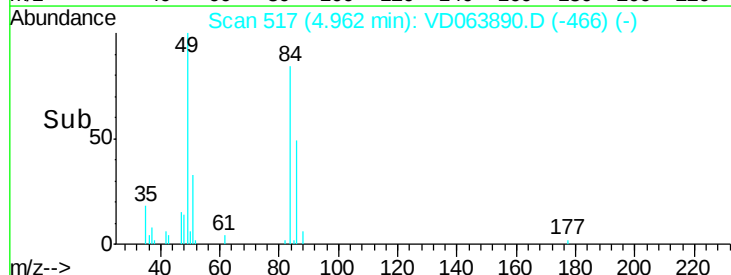
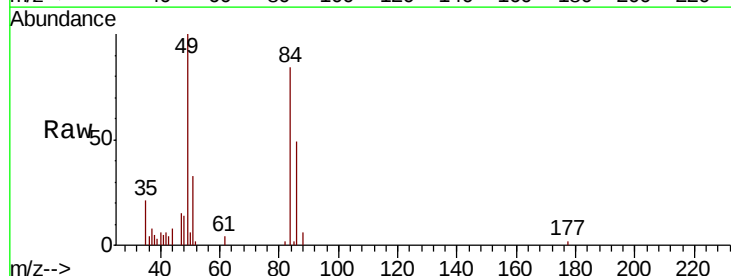
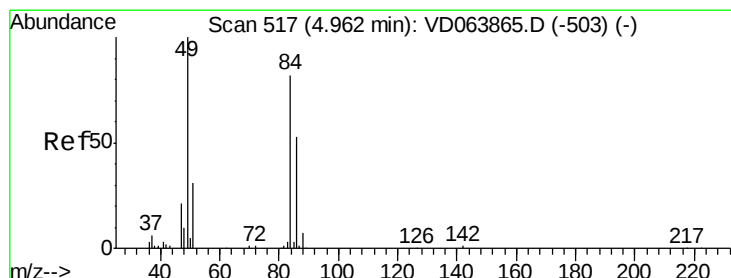
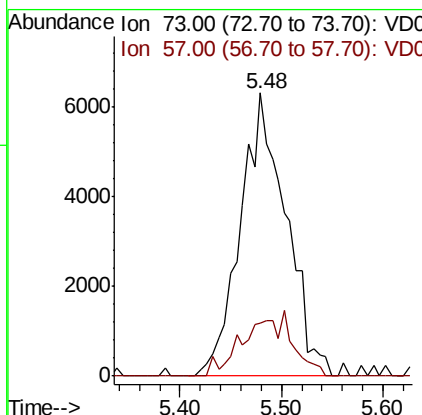
#19
Methvl tert-butvl Ether
Concen: 5.082 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.8	18.1	27.1

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

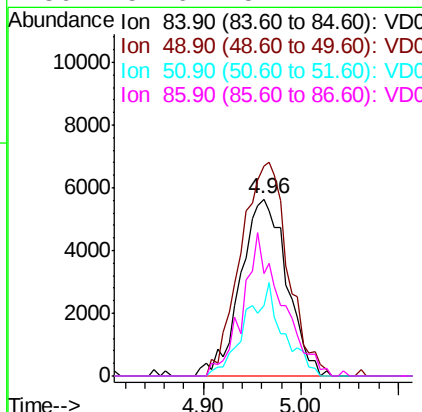
Manual Integrations
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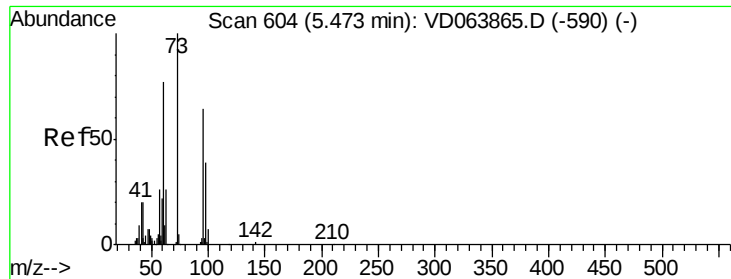
MMDadoda
10/8/2019 3:11:42 PM



#20
Methylene Chloride
Concen: 8.014 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.6	97.3	145.9
51	39.7	30.1	45.1
86	57.6	51.4	77.2





#21

trans-1,2-Dichloroethene

Concen: 5.244 ug/l m

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

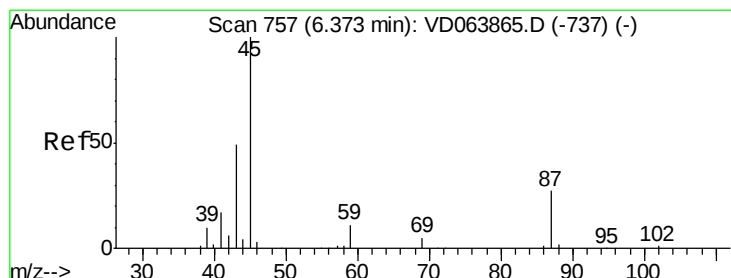
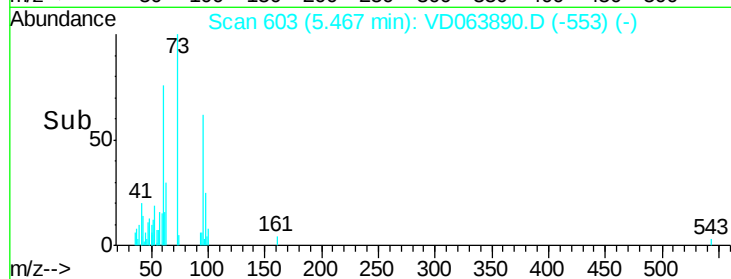
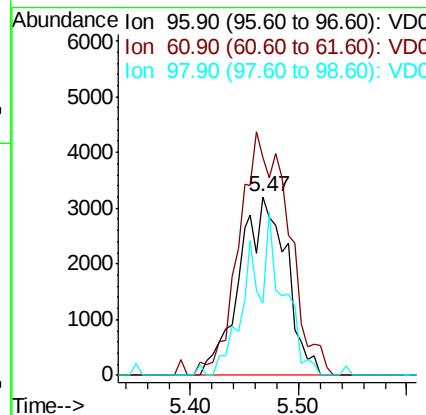
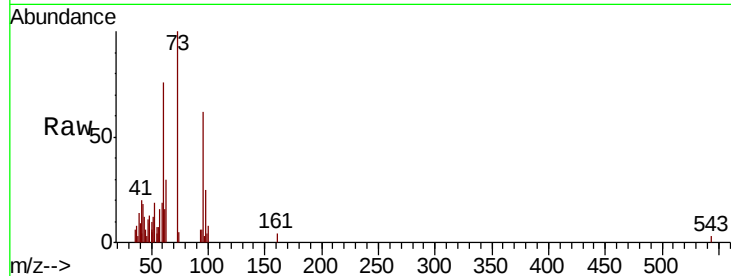
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	122.2	96.6	145.0
98	40.7	48.7	73.1#

Manual Integrations
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10/8/2019 3:11:42 PM



#22

Diisopropyl ether

Concen: 5.431 ug/l

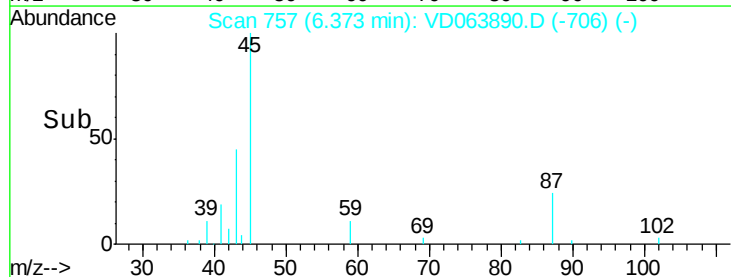
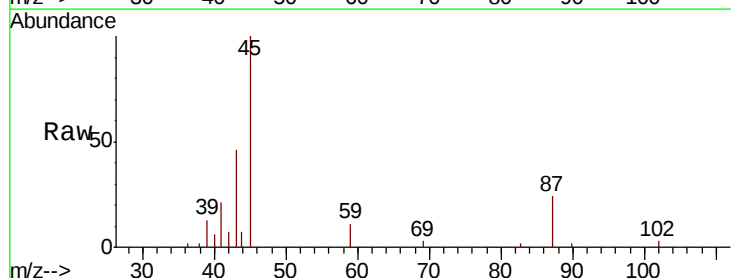
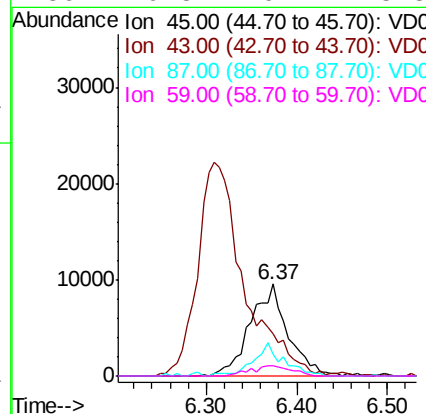
RT: 6.37 min Scan# 757

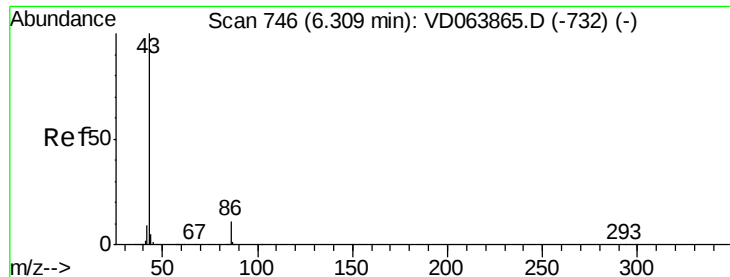
Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
45	100		
43	42.5	41.2	61.8
87	23.7	22.2	33.4
59	10.8	9.2	13.8





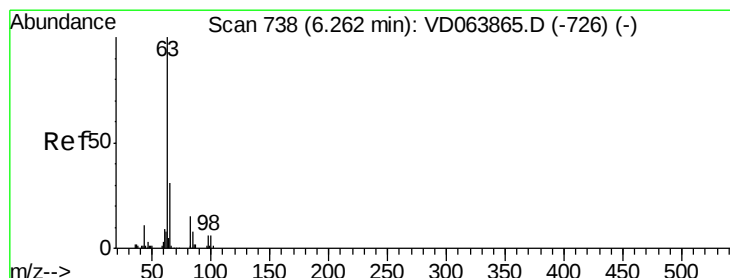
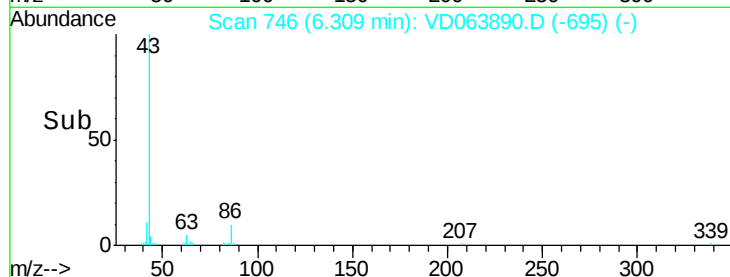
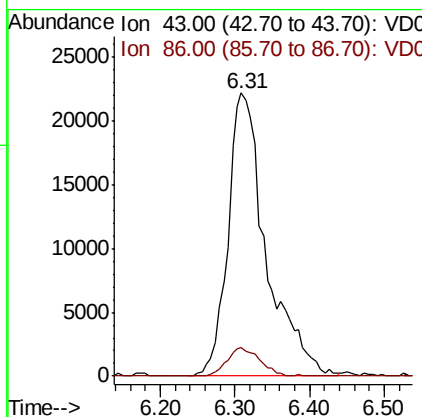
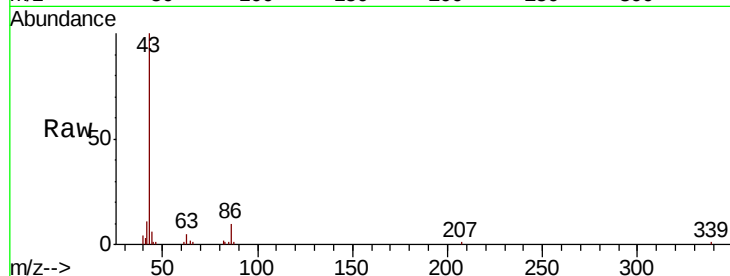
#23
 Vinyl Acetate
 Concen: 26.014 ug/l
 RT: 6.31 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.8	13.2

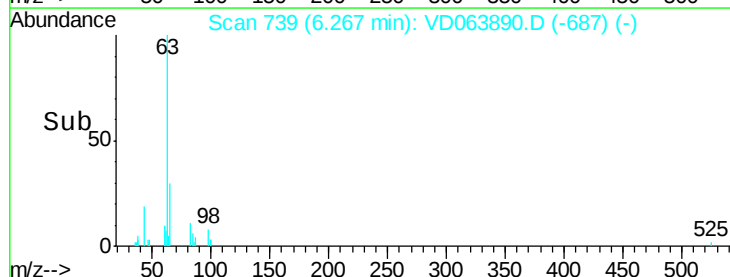
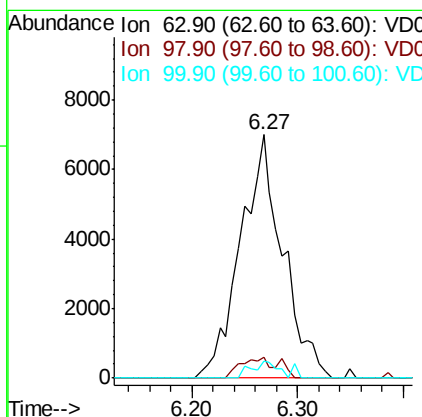
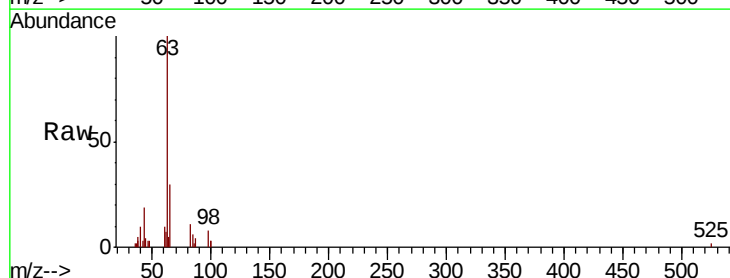
Manual Integrations
 APPROVED

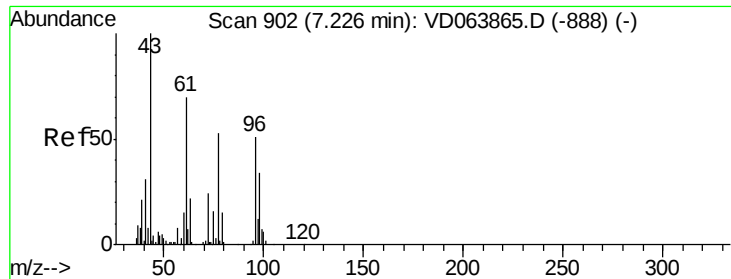
MMDadoda
 10/8/2019 3:11:42 PM



#24
 1,1-Dichloroethane
 Concen: 6.188 ug/l
 RT: 6.27 min Scan# 739
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
63	100		
98	8.5	3.1	9.4
100	6.8	3.0	9.2





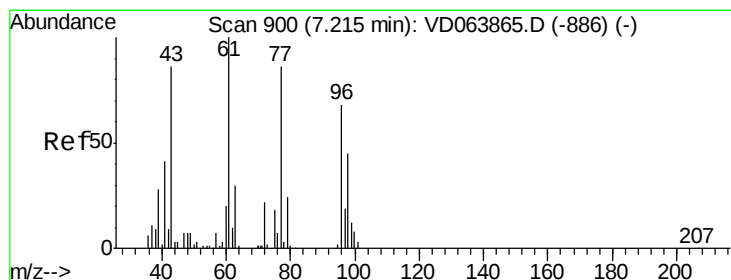
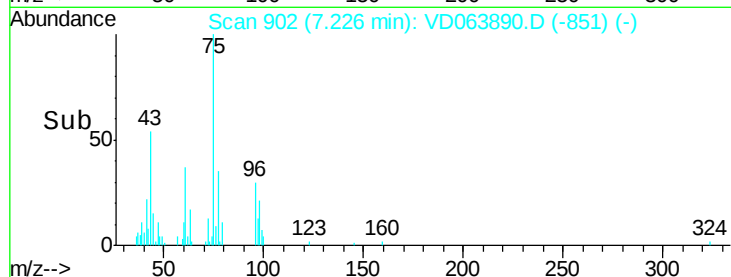
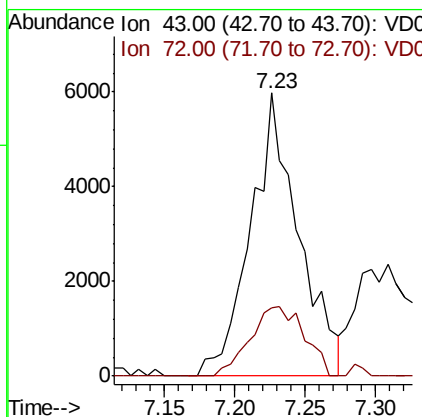
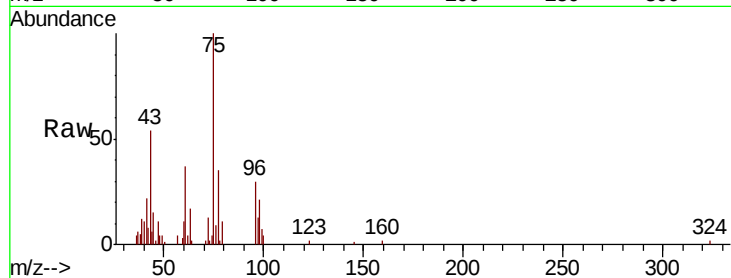
#25
2-Butanone
Concen: 26.548 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 14275
Ion Ratio Lower Upper
43 100
72 24.3 19.2 28.8

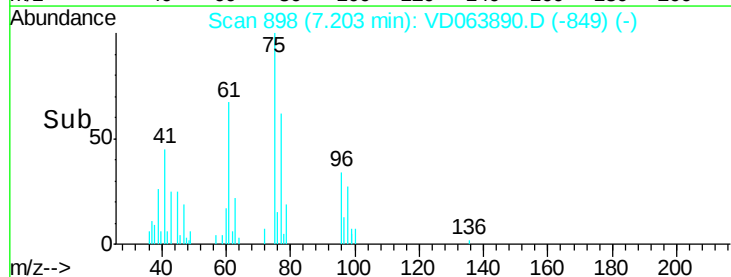
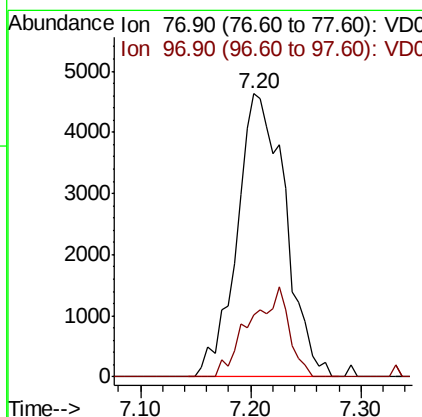
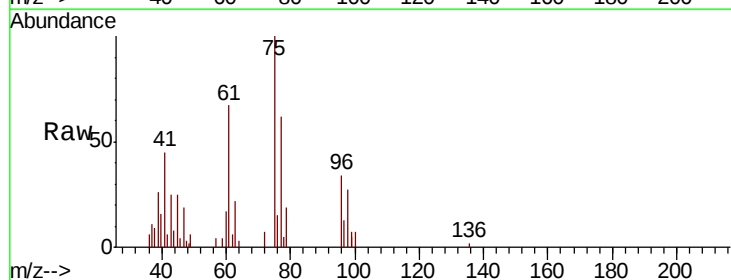
Manual Integrations
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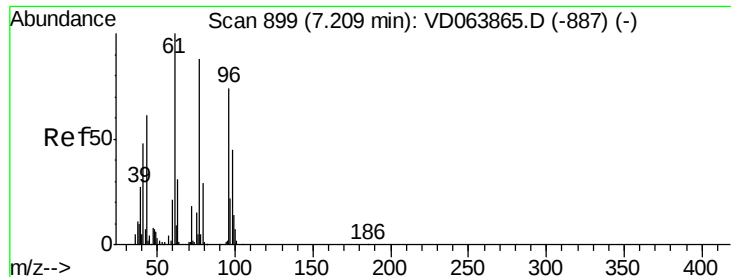
MMDadoda
10/8/2019 3:11:42 PM



#26
2,2-Dichloropropane
Concen: 5.009 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 77 Resp: 14216
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.1#





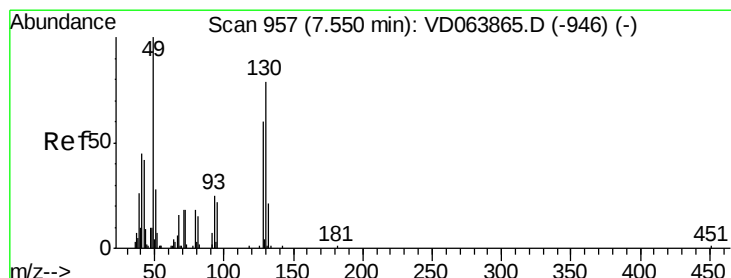
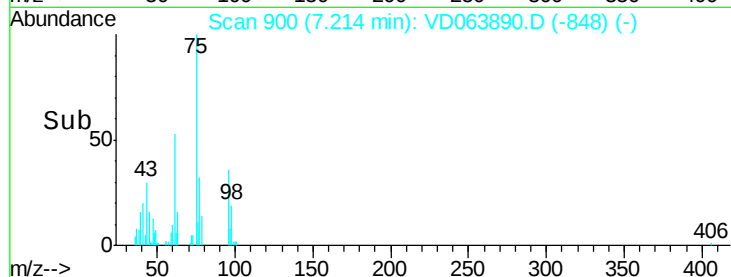
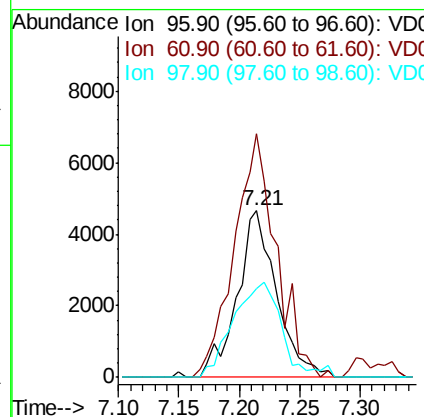
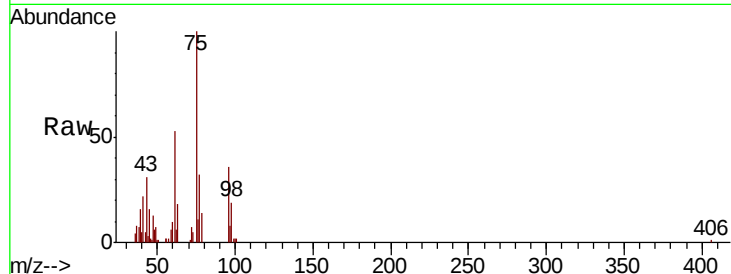
#27
 cis-1,2-Dichloroethene
 Concen: 5.002 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.4	0.0	280.0
98	70.5	0.0	130.4

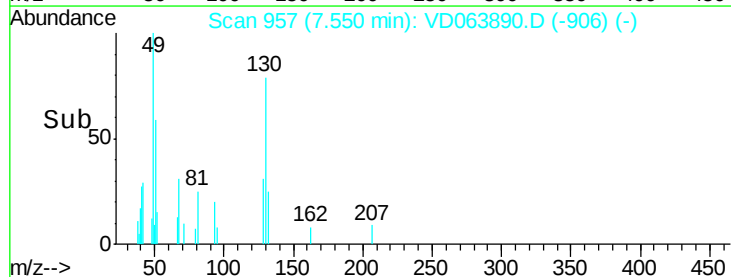
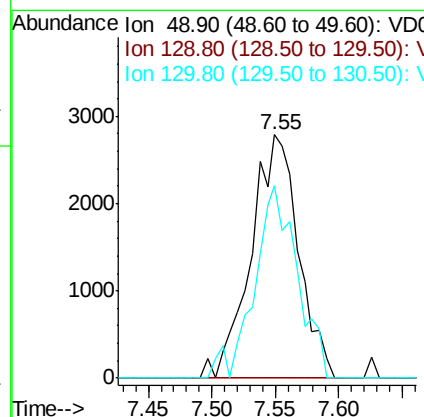
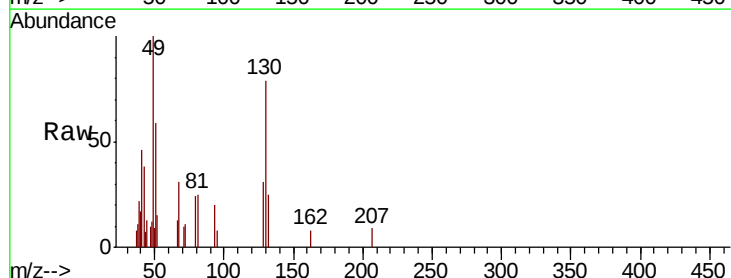
Manual Integrations
 APPROVED

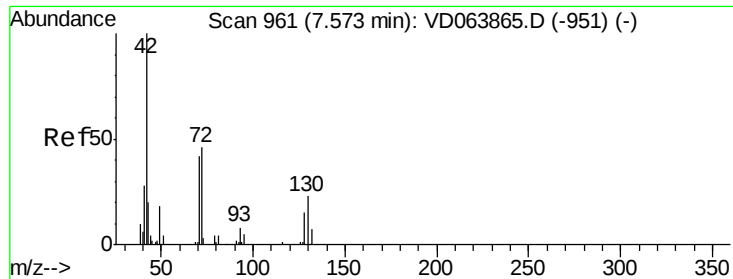
MMDadoda
 10/8/2019 3:11:42 PM



#28
 Bromochloromethane
 Concen: 6.171 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	71.6	66.8	100.2





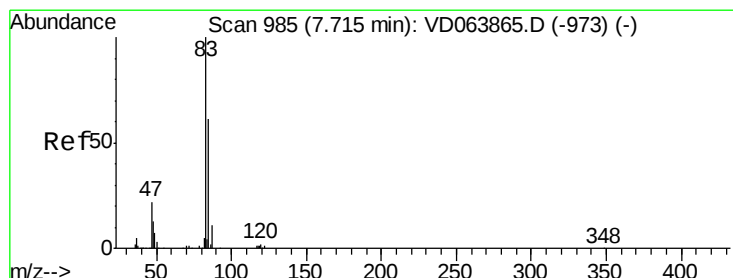
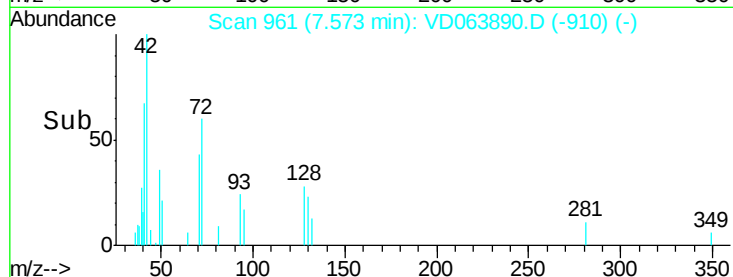
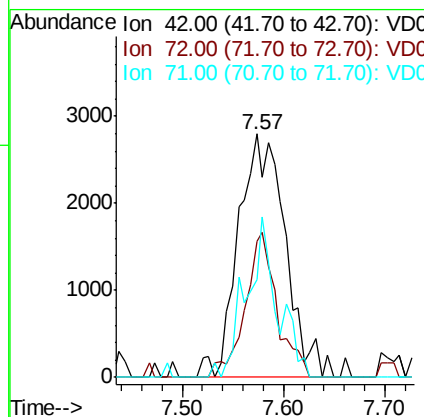
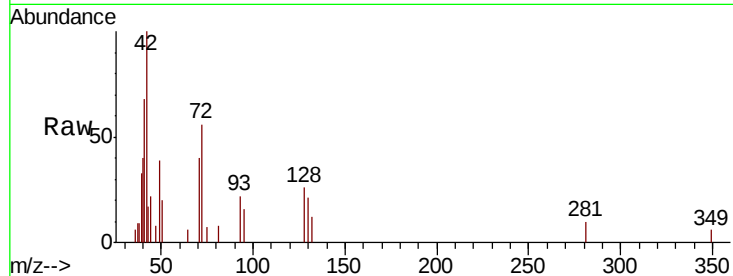
#29
Tetrahydrofuran
Concen: 28.527 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.5	37.6	56.4
71	36.0	35.0	52.6

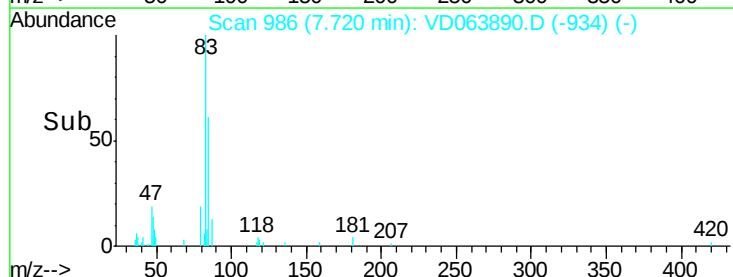
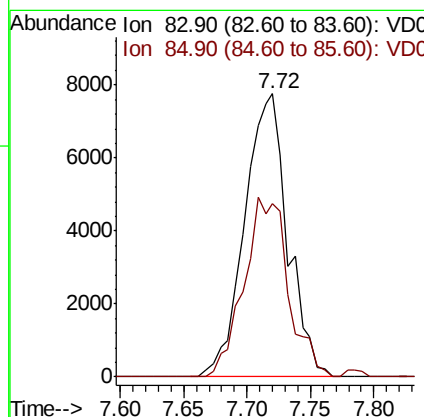
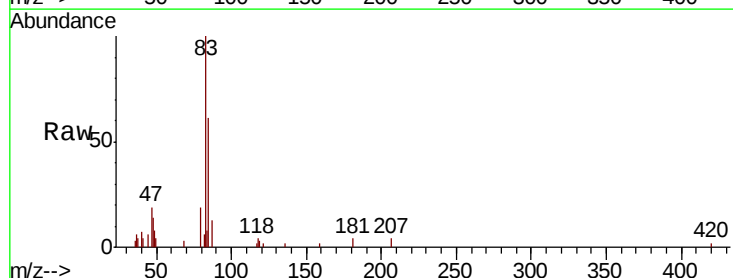
Manual Integrations
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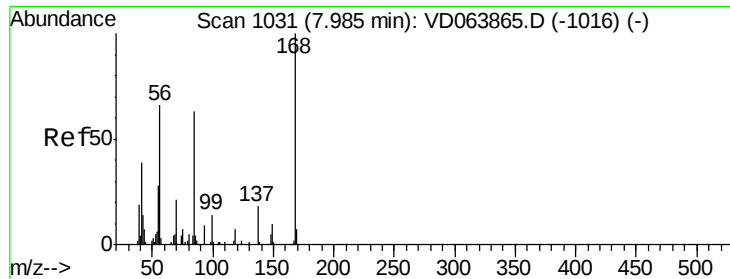
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#30
Chloroform
Concen: 5.375 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.2	48.9	73.3





#31

Cyclohexane

Concen: 6.265 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

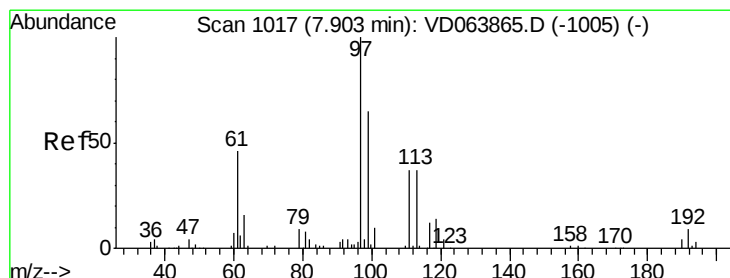
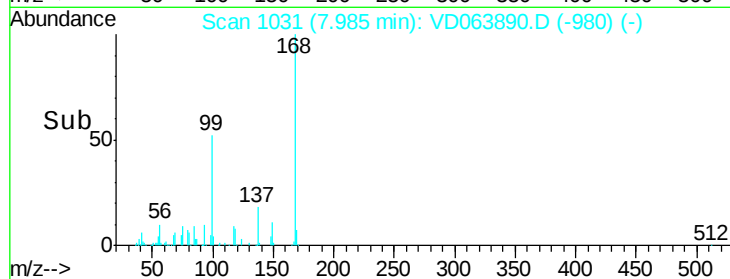
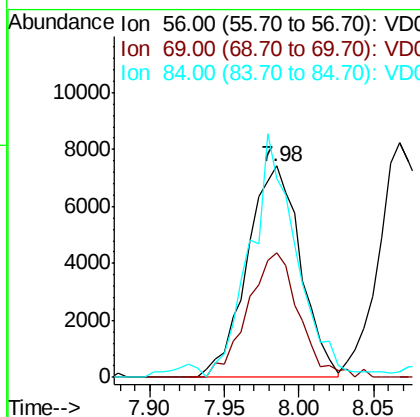
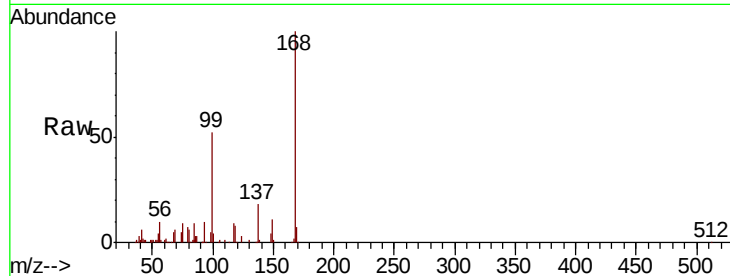
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	56	69	84
Ion	56	69	84
Ratio	100	58.8	88.4
Lower		25.0	76.3
Upper		37.4#	114.5

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 5.296 ug/l

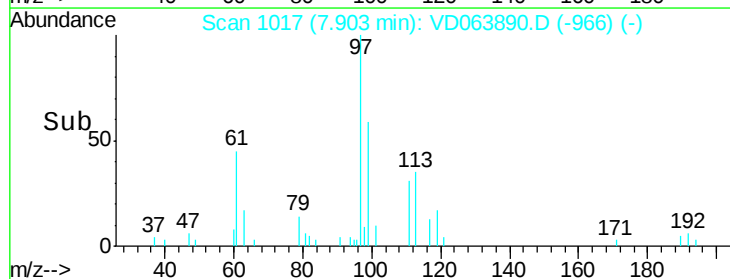
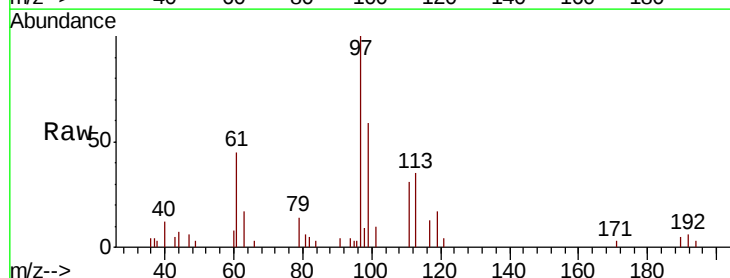
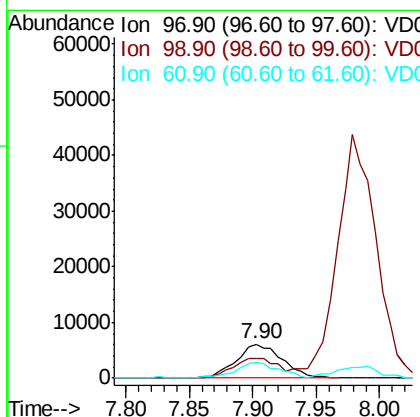
RT: 7.90 min Scan# 1017

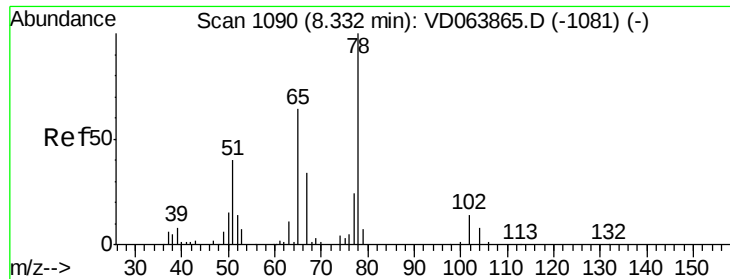
Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion	97	99	61
Ion	97	99	61
Ratio	100	59.6	42.8
Lower		52.4	33.8
Upper		78.6	50.8





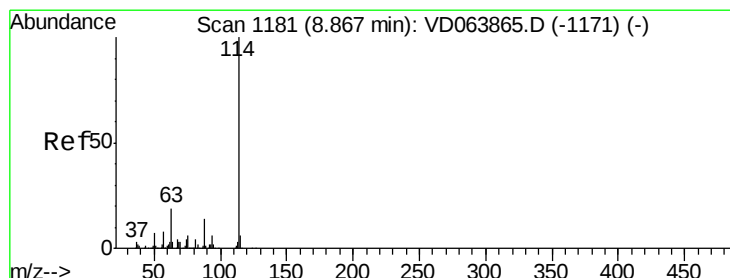
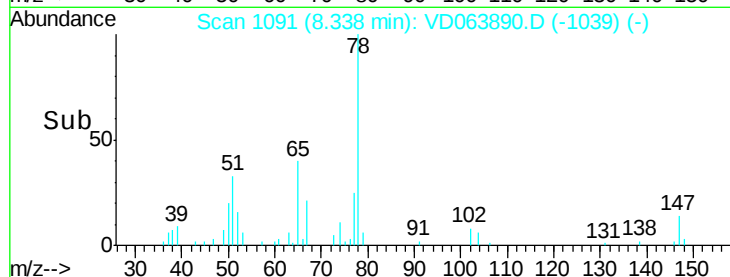
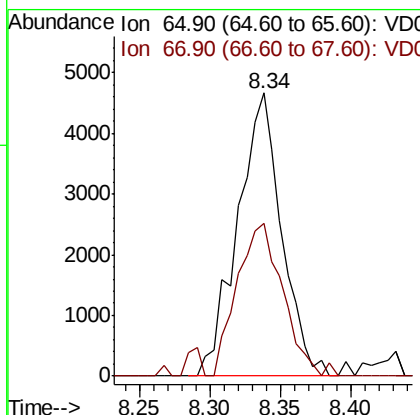
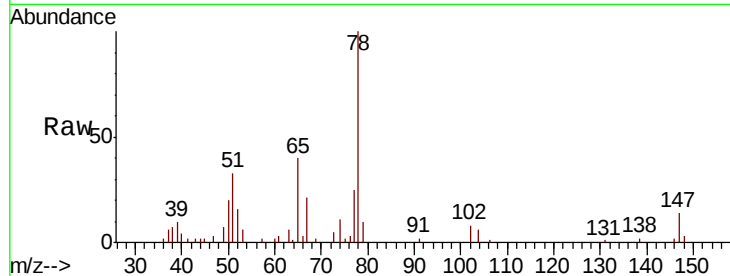
#33
 1,2-Dichloroethane-d4
 Concen: 5.839 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	56.3	0.0	106.4

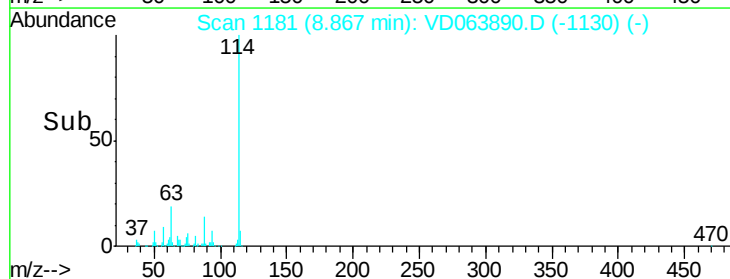
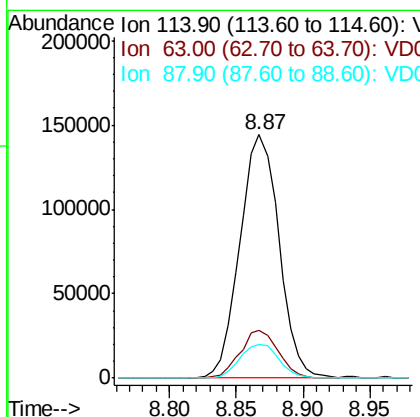
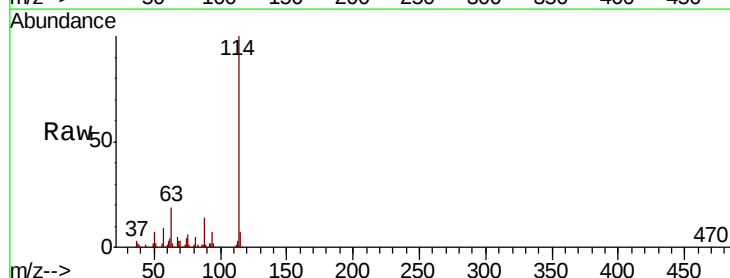
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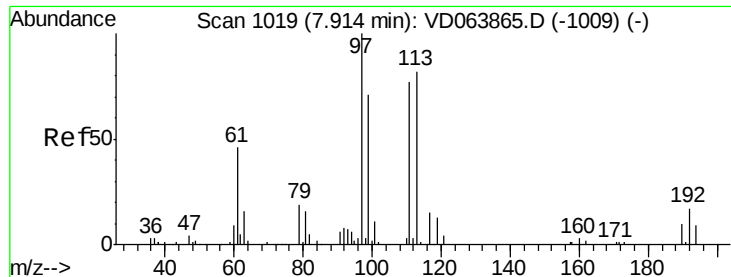
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.4
88	13.9	0.0	27.4





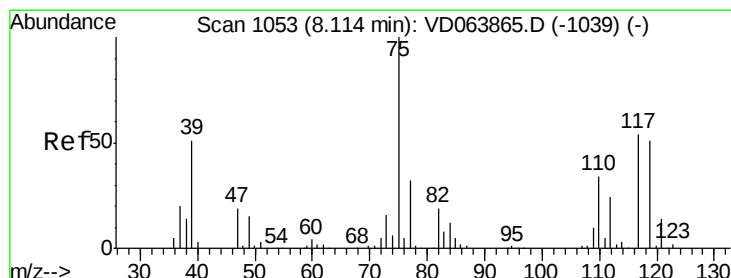
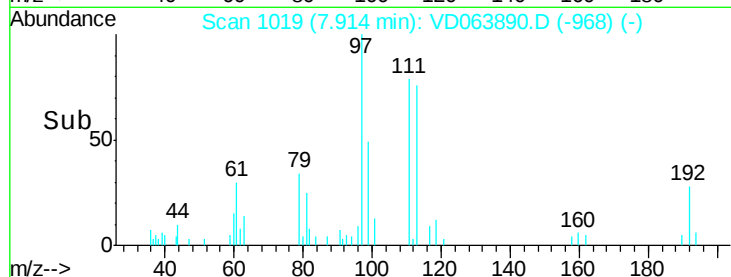
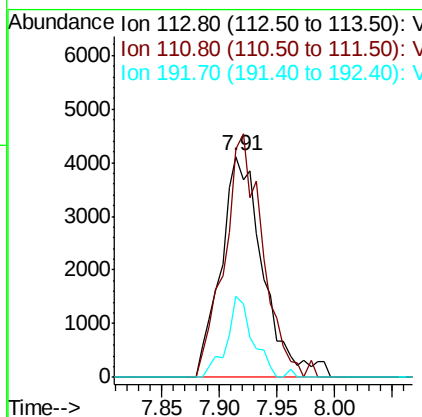
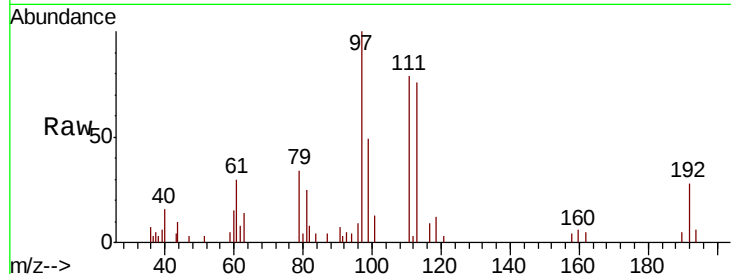
#35
 Dibromofluoromethane
 Concen: 5.853 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.7	82.6	123.8
192	22.2	17.1	25.7

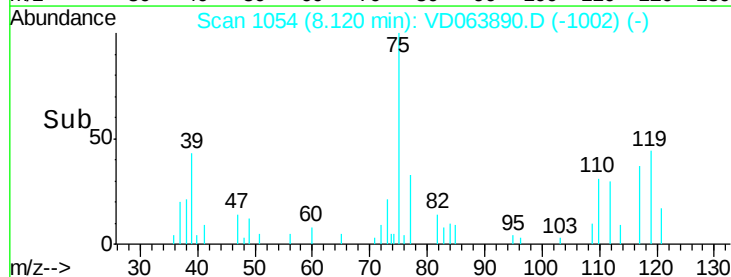
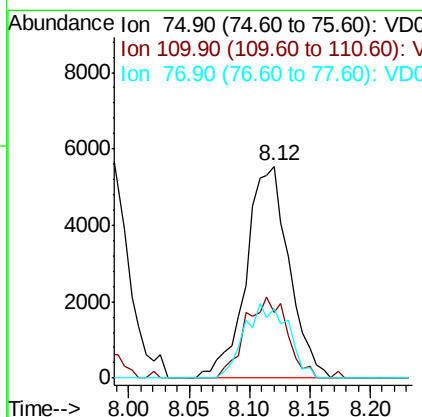
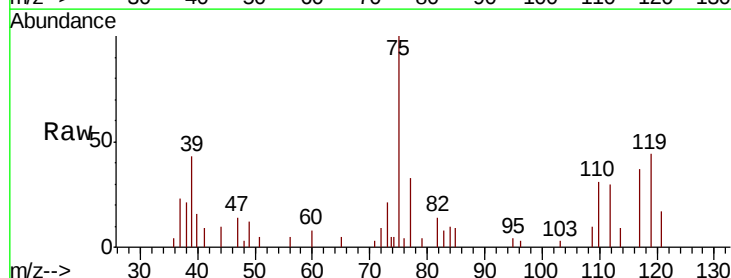
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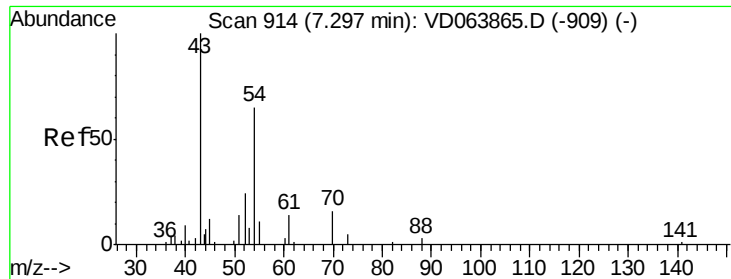
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#36
 1,1-Dichloropropene
 Concen: 5.109 ug/l
 RT: 8.12 min Scan# 1054
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.0	17.4	52.3
77	35.6	25.4	38.0





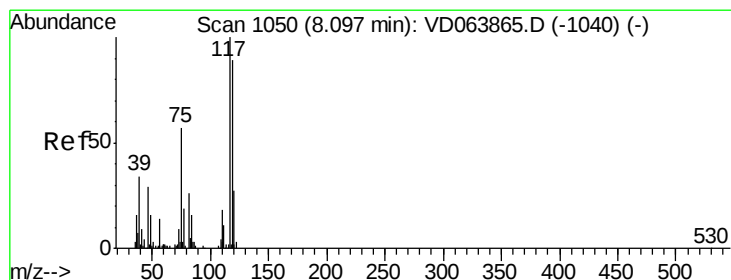
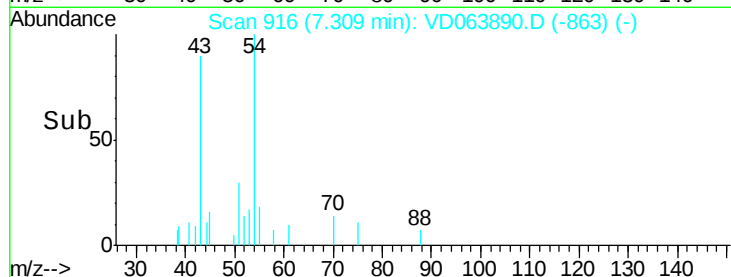
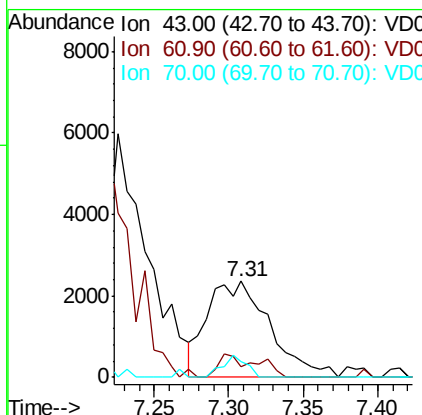
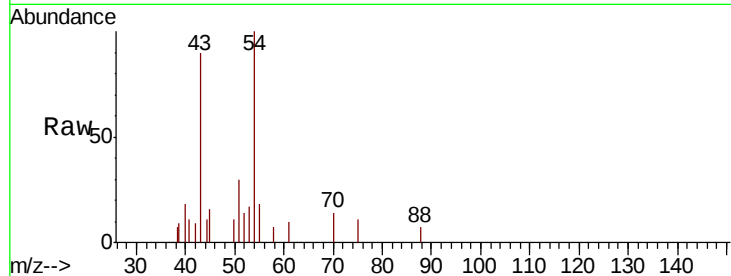
#37
Ethyl Acetate
Concen: 5.640 ug/l
RT: 7.31 min Scan# 916
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.5	11.5	17.3#
70	8.8	8.2	12.4

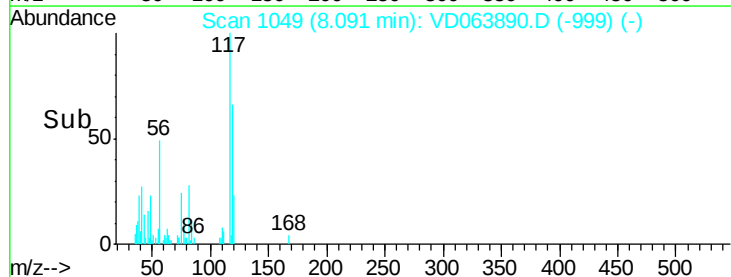
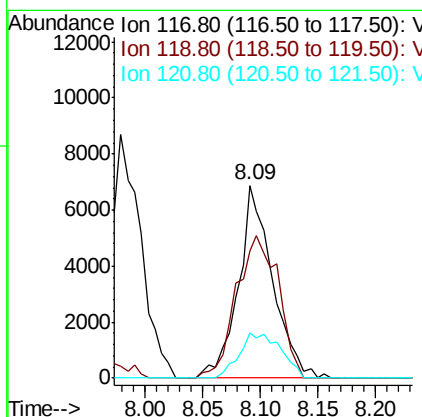
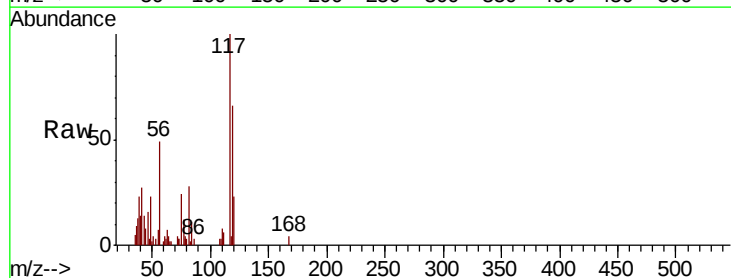
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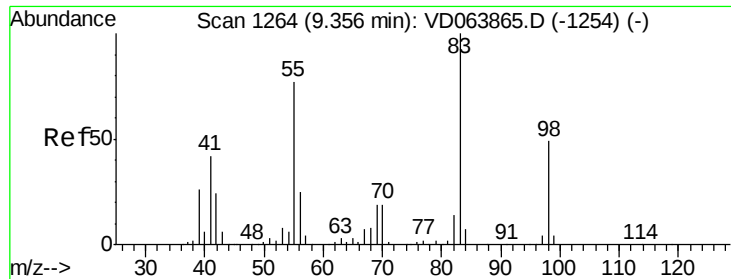
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#38
Carbon Tetrachloride
Concen: 5.252 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	66.0	70.8	106.2#
121	23.5	21.4	32.0





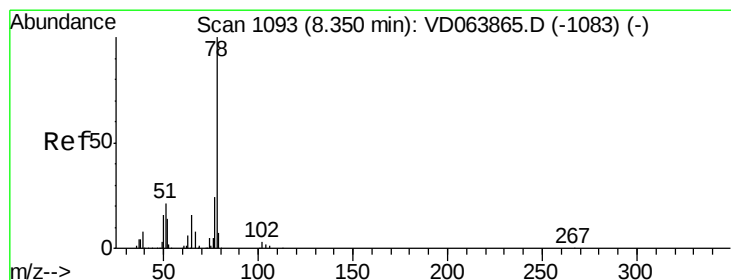
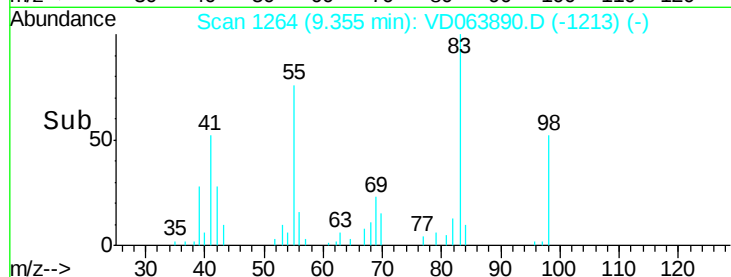
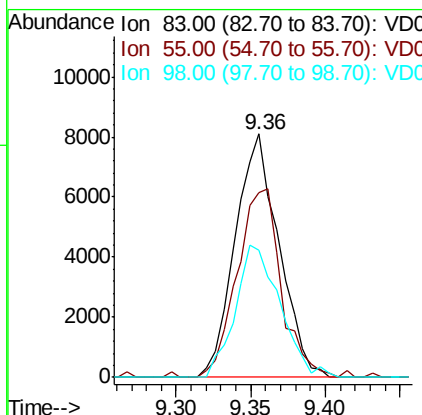
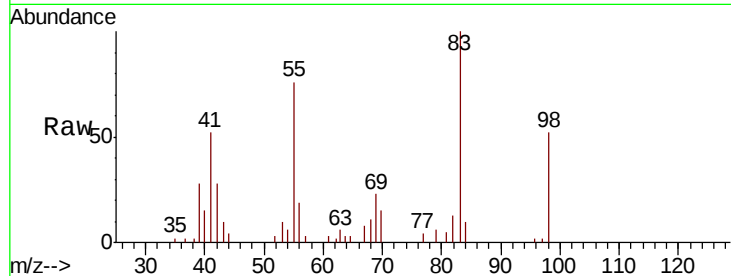
#39
Methvlcvclohexane
Concen: 5.005 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	83	Resp	16470
Ion Ratio	Lower	Upper	
83	100		
55	76.1	61.3	91.9
98	52.4	39.3	58.9

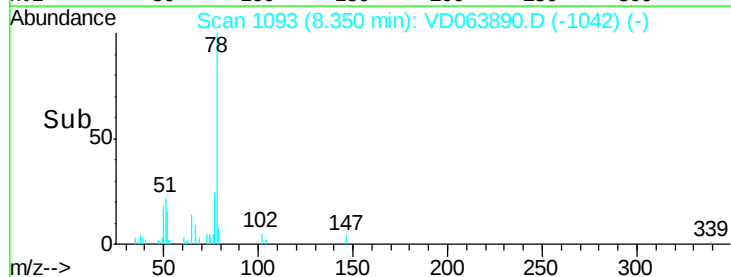
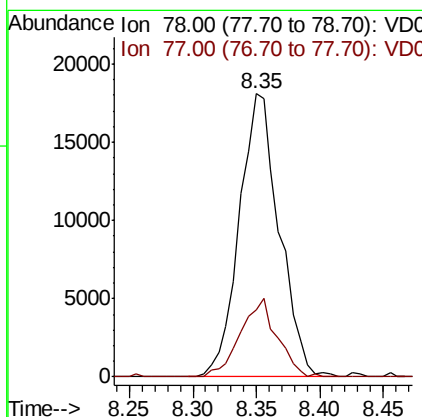
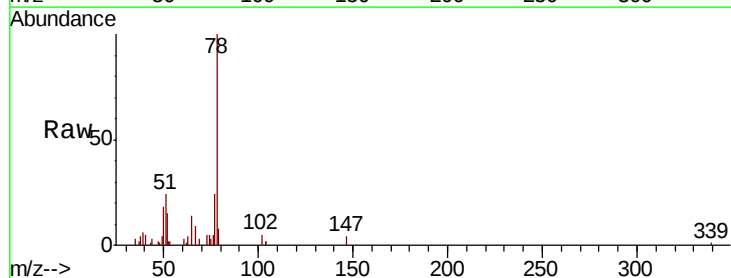
Manual Integrations
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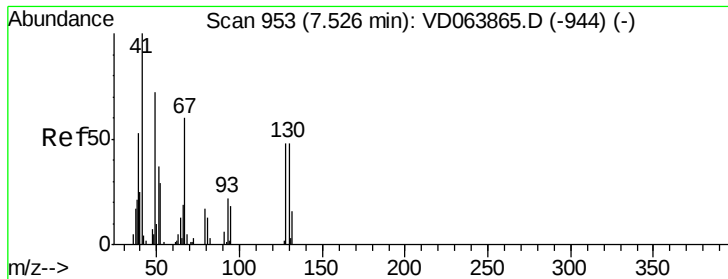
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10/8/2019 3:11:42 PM



#40
Benzene
Concen: 5.160 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	78	Resp	39578
Ion Ratio	Lower	Upper	
78	100		
77	23.6	19.0	28.6





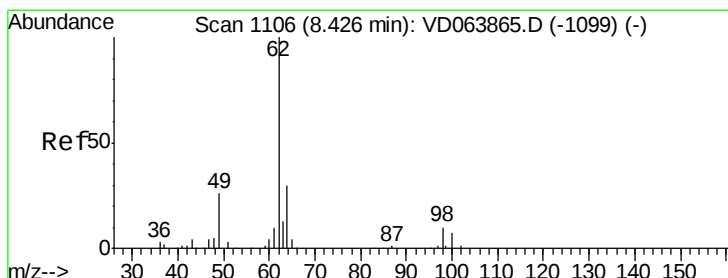
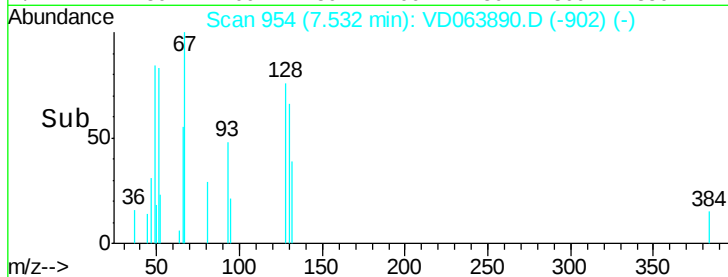
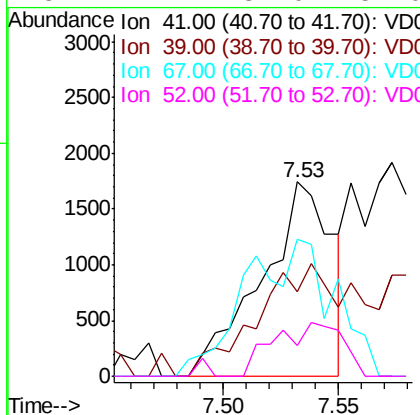
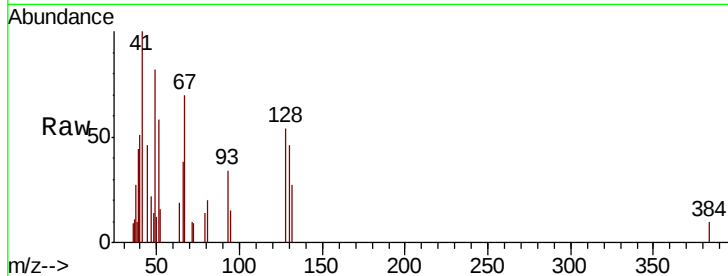
#41
Methacrylonitrile
Concen: 5.943 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	81.5	52.6	78.8#
67	0.0	74.2	111.2#
52	27.1	34.0	51.0#

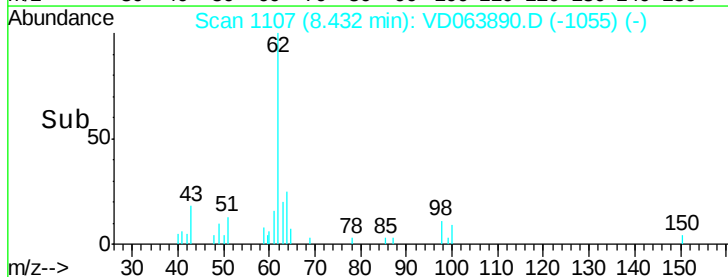
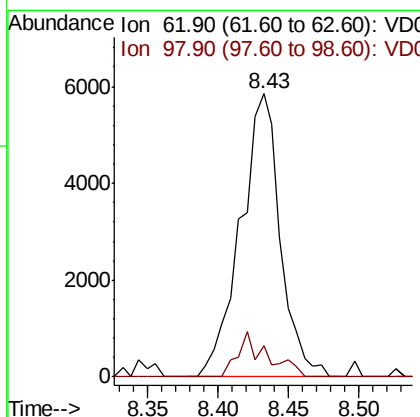
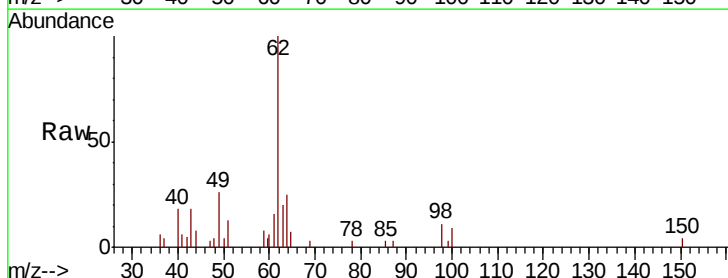
Manual Integrations
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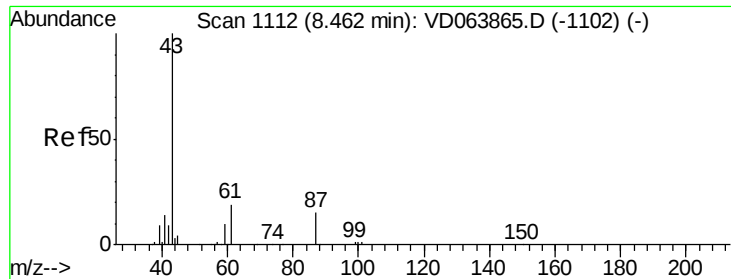
MMDadoda
10/8/2019 3:11:42 PM



#42
1,2-Dichloroethane
Concen: 5.207 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.6	0.0	20.0





#43

Isopropyl Acetate

Concen: 5.347 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

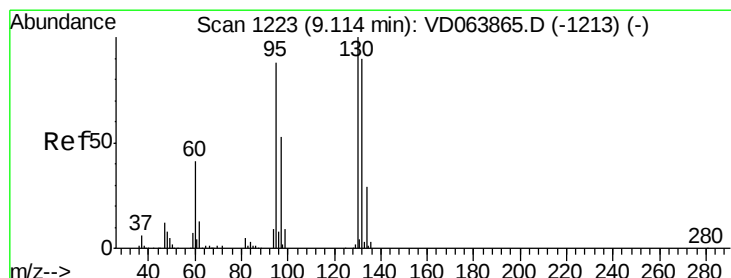
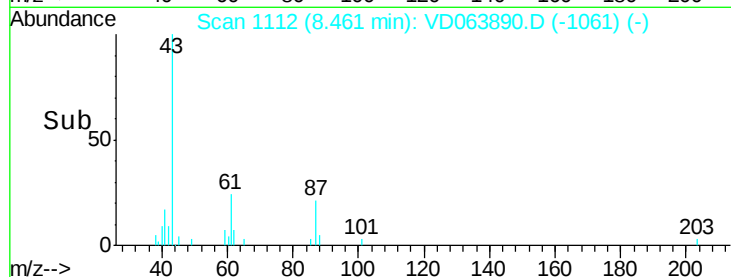
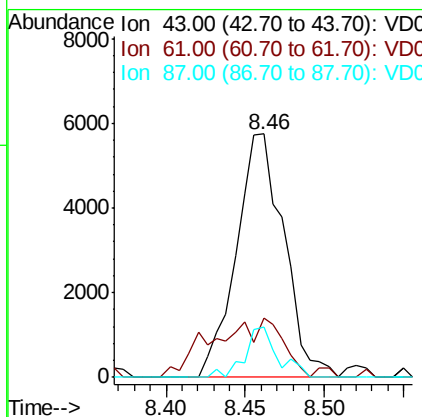
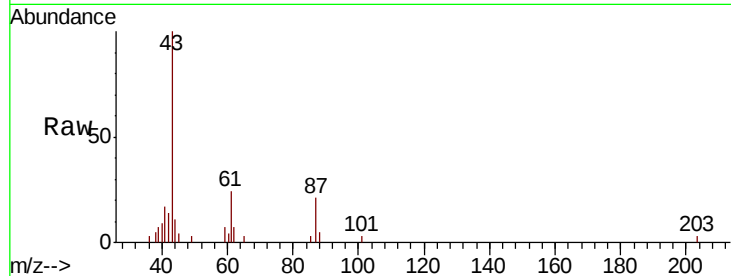
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	43	Resp:	12002
Ion Ratio	Lower	Upper	
43	100		
61	2.4	25.7	38.5#
87	14.0	11.6	17.4

Manual Integrations
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10/8/2019 3:11:42 PM



#44

Trichloroethene

Concen: 5.376 ug/l

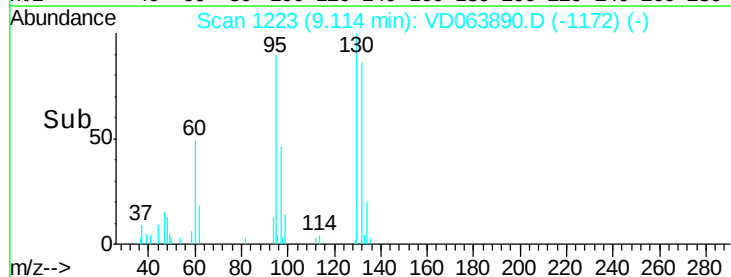
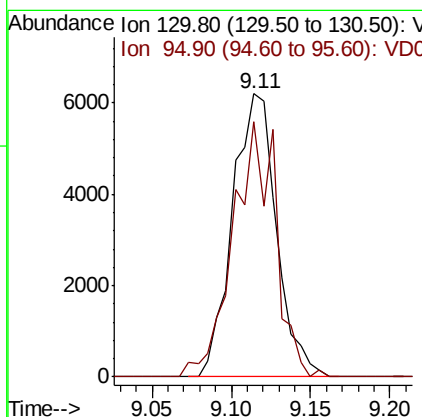
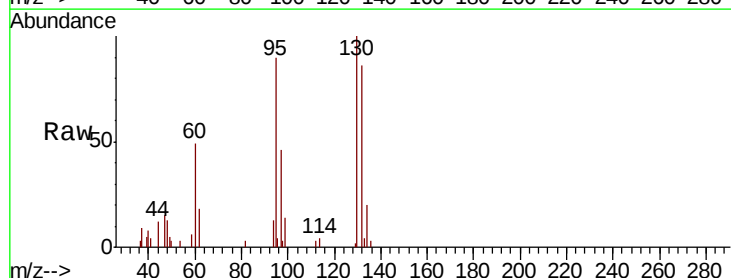
RT: 9.11 min Scan# 1223

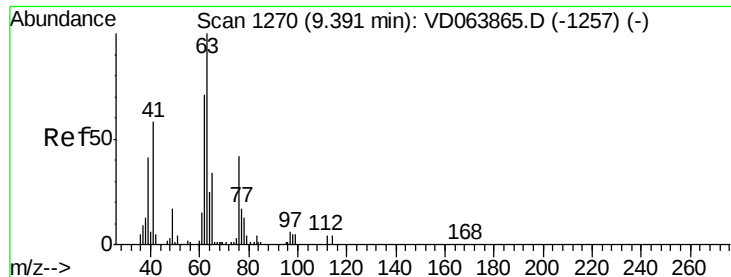
Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion:	130	Resp:	11890
Ion Ratio	Lower	Upper	
130	100		
95	90.0	0.0	175.6





#45

1,2-Dichloropropane

Concen: 5.232 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 63 Resp: 9823

Ion Ratio Lower Upper

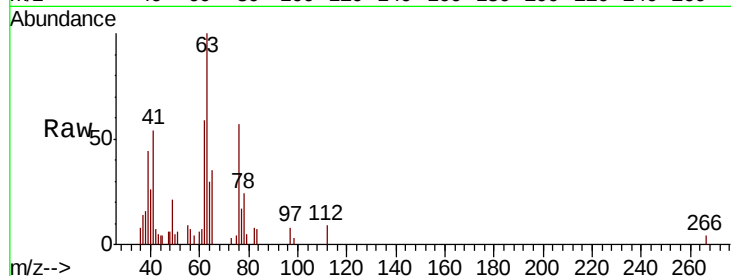
63 100

65 35.2 27.3 40.9

Manual Integrations
APPROVED

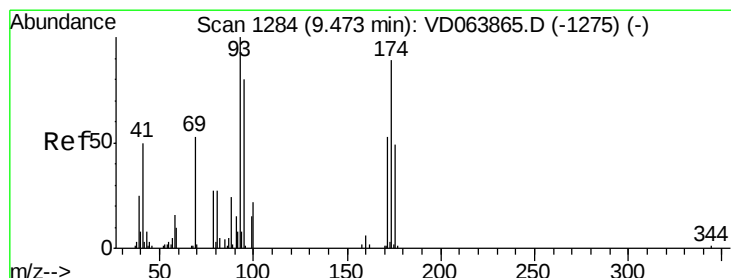
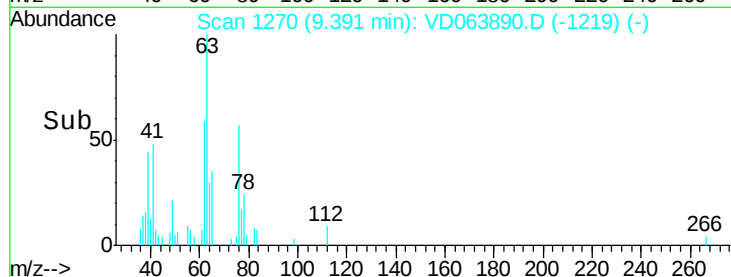
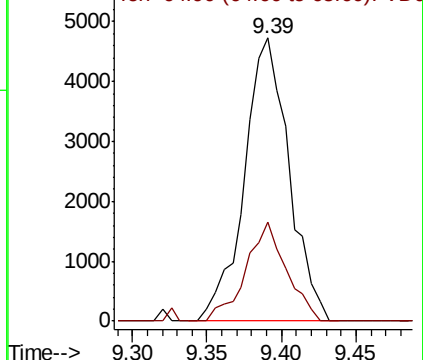
MMDadoda

10/8/2019 3:11:42 PM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 5.412 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

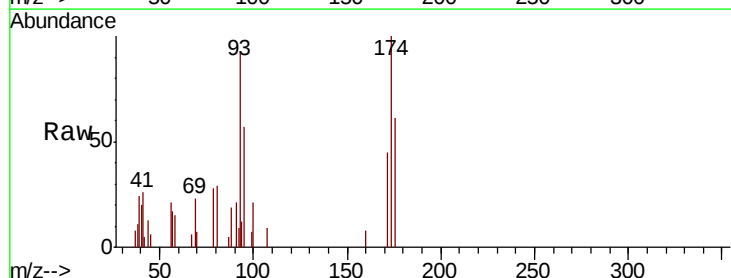
Tgt Ion: 93 Resp: 5786

Ion Ratio Lower Upper

93 100

95 71.2 66.0 99.0

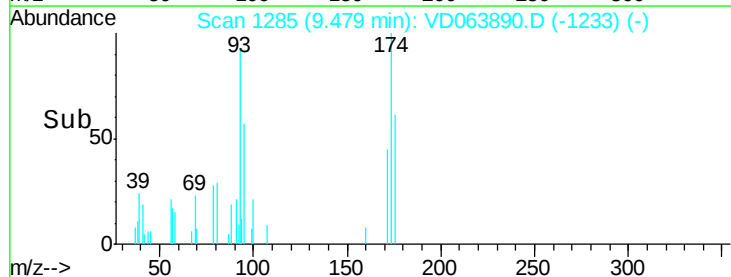
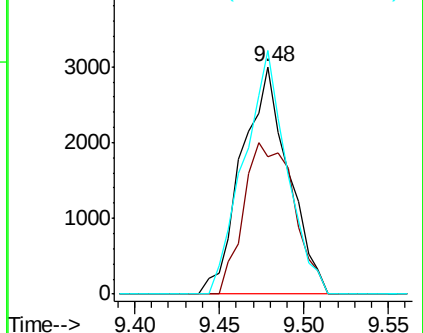
174 98.5 83.4 125.0

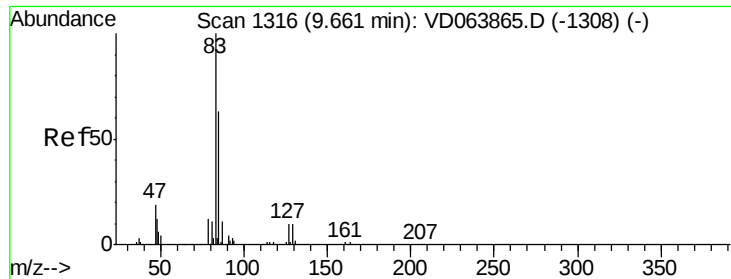


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





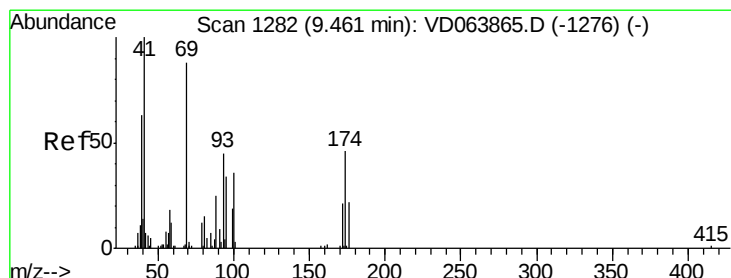
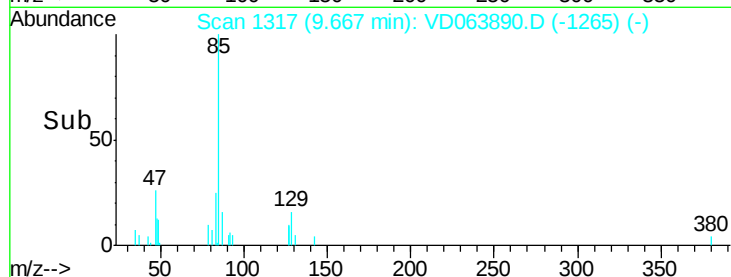
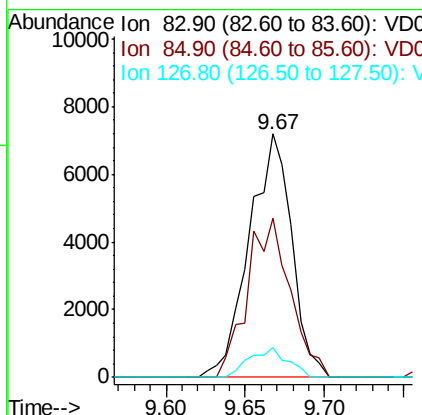
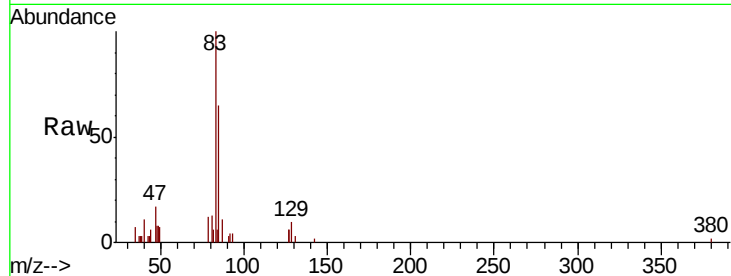
#47
Bromodichloromethane
Concen: 4.880 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
83	100	13432		
85	65.2		50.2	75.2
127	12.4		7.6	11.4#

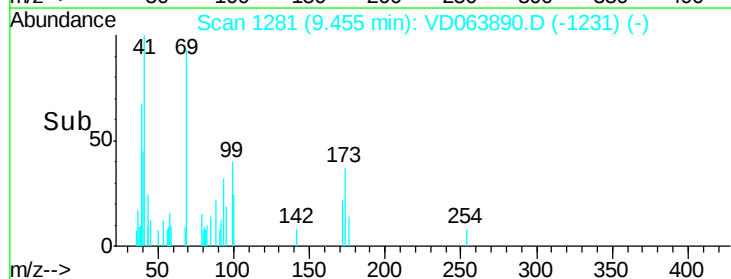
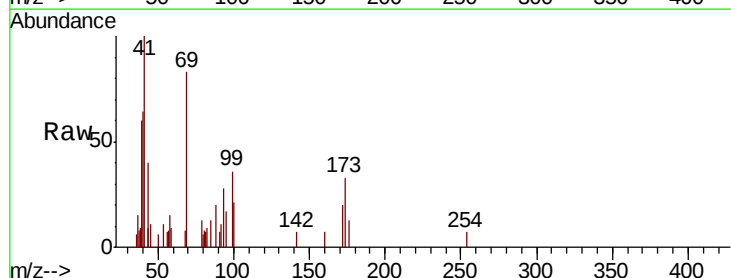
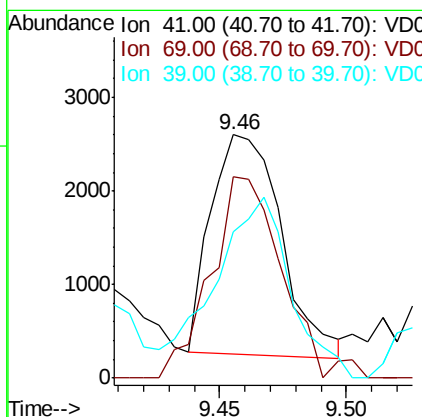
Manual Integrations
APPROVED

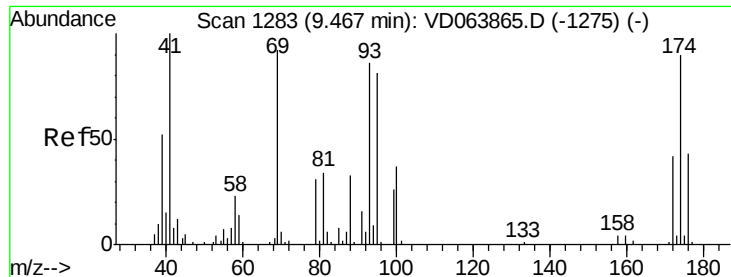
MMDadoda
10/8/2019 3:11:42 PM



#48
Methyl methacrylate
Concen: 4.233 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	4552		
69	92.7		75.1	112.7
39	88.8		50.2	75.2#





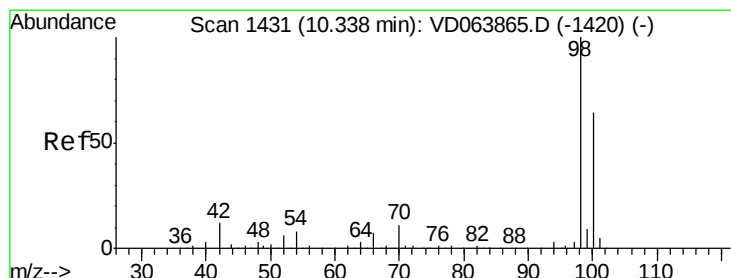
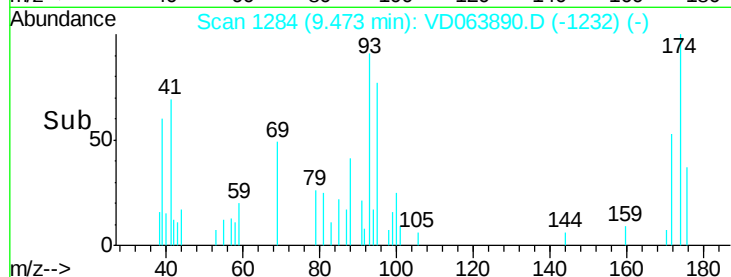
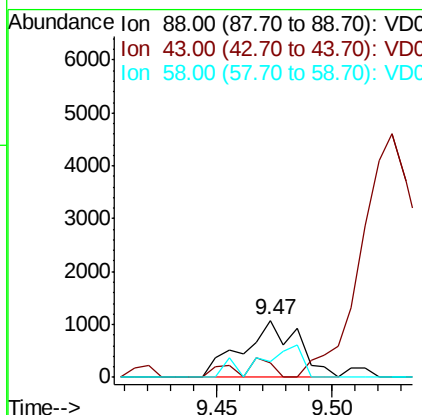
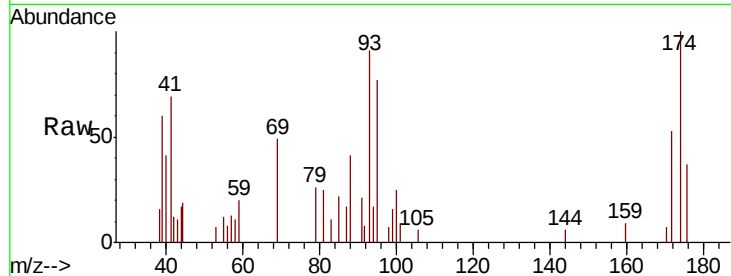
#49
1,4-Dioxane
Concen: 122.173 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 88 Resp: 1783
Ion Ratio Lower Upper
88 100
43 0.0 27.6 41.4#
58 34.8 54.1 81.1#

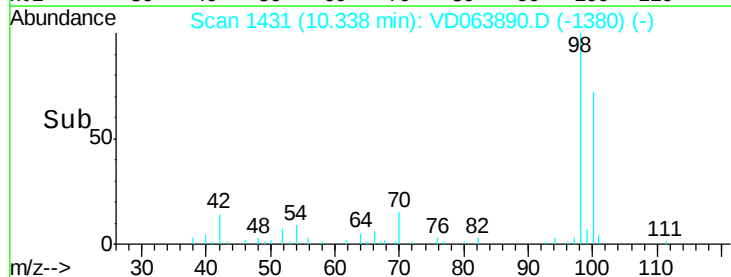
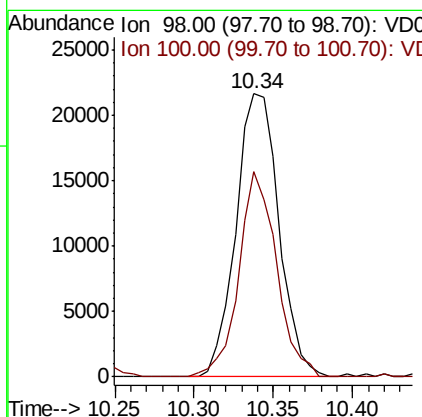
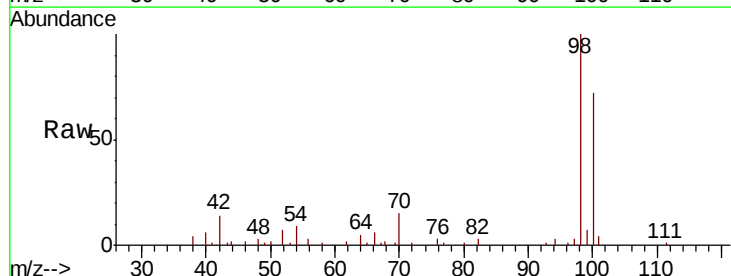
Manual Integrations
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10/8/2019 3:11:42 PM



#50
Toluene-d8
Concen: 5.611 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 98 Resp: 40741
Ion Ratio Lower Upper
98 100
100 63.6 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 25.839 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 30079

Ion Ratio Lower Upper

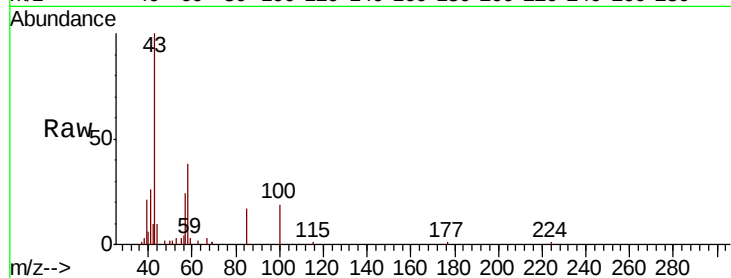
43 100

58 41.7 33.0 49.4

Manual Integrations
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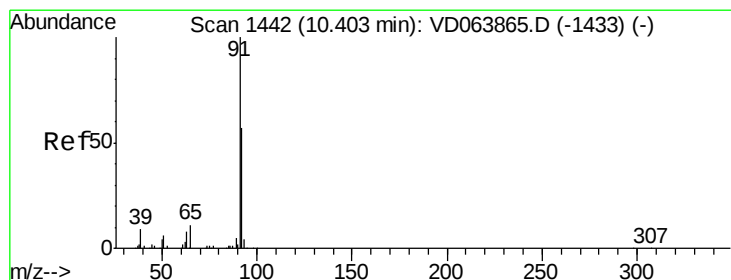
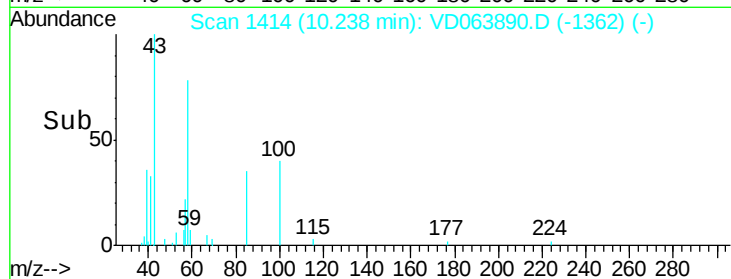
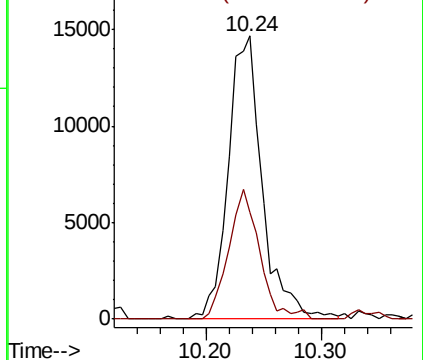
MMDadoda

10/8/2019 3:11:42 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 4.789 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD063890.D

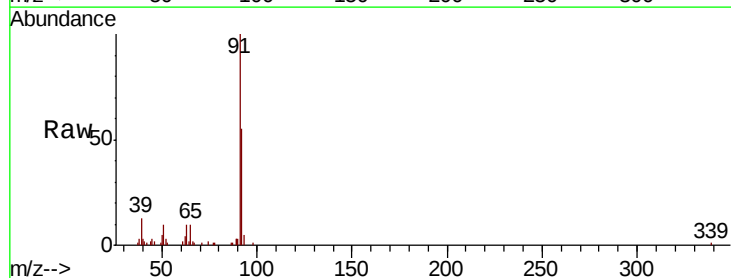
Acq: 04 Oct 2019 17:39

Tgt Ion: 92 Resp: 25217

Ion Ratio Lower Upper

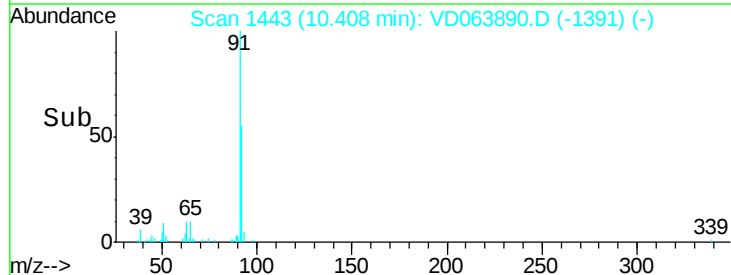
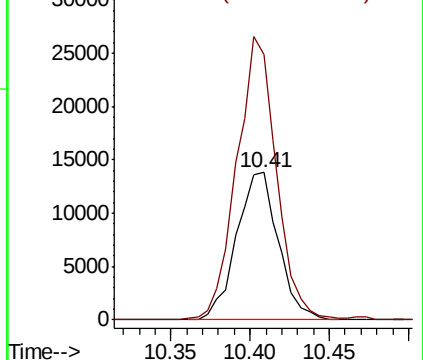
92 100

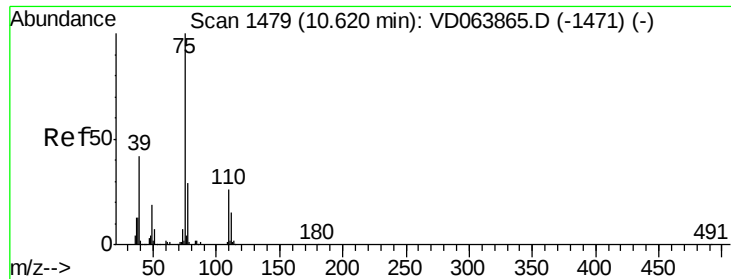
91 182.8 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





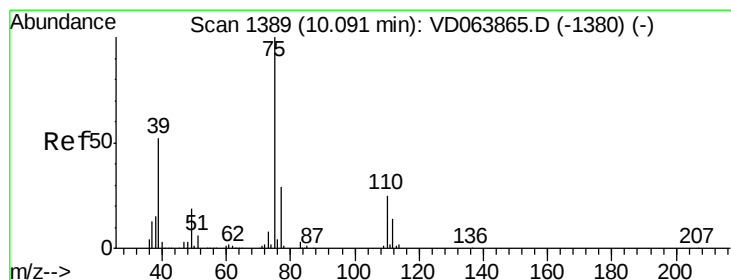
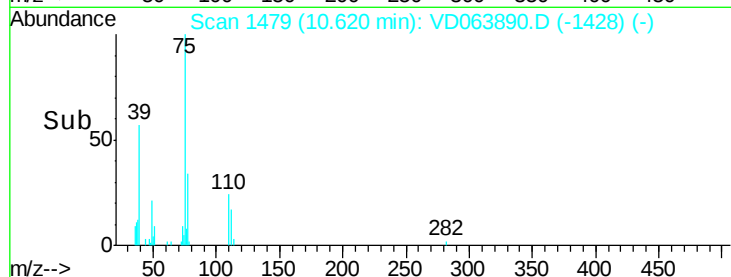
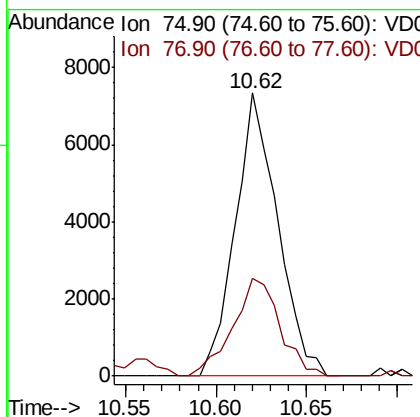
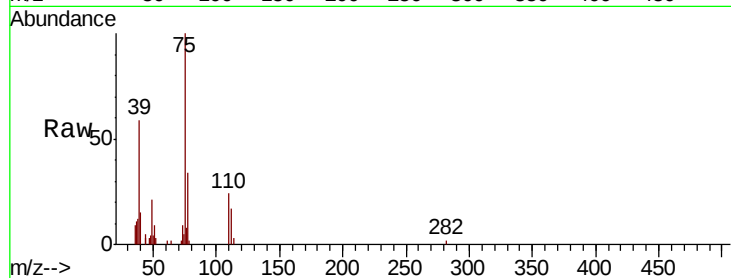
#53
t-1,3-Dichloropropene
Concen: 4.455 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 75 Resp: 11966
Ion Ratio Lower Upper
75 100
77 34.5 22.8 34.2#

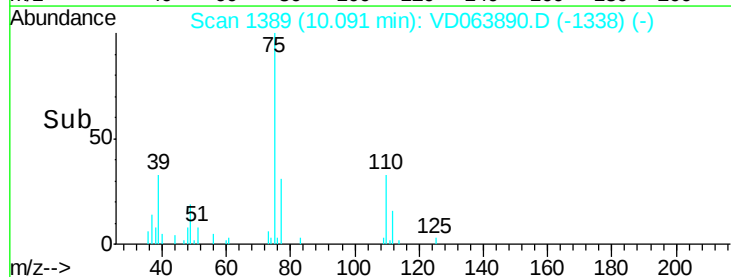
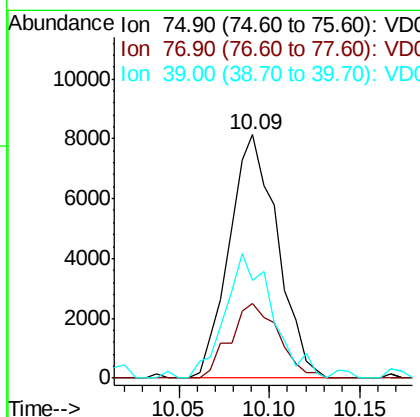
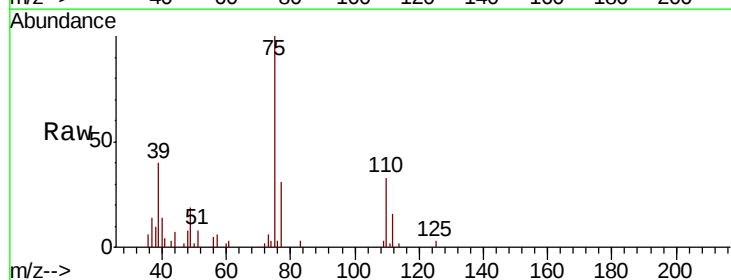
Manual Integrations
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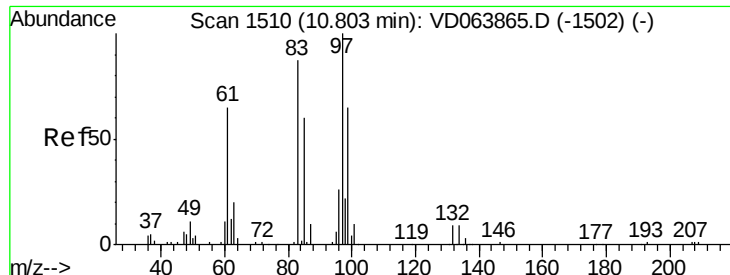
MMDadoda
10/8/2019 3:11:42 PM



#54
cis-1,3-Dichloropropene
Concen: 4.860 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 75 Resp: 15028
Ion Ratio Lower Upper
75 100
77 30.6 23.2 34.8
39 40.1 41.5 62.3#





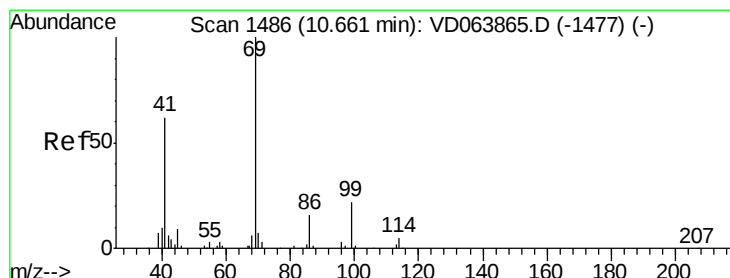
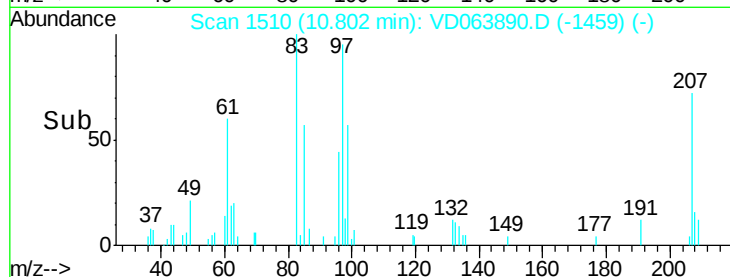
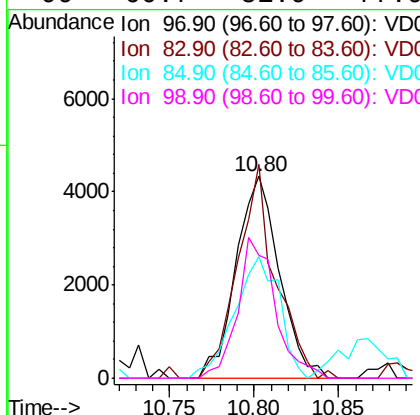
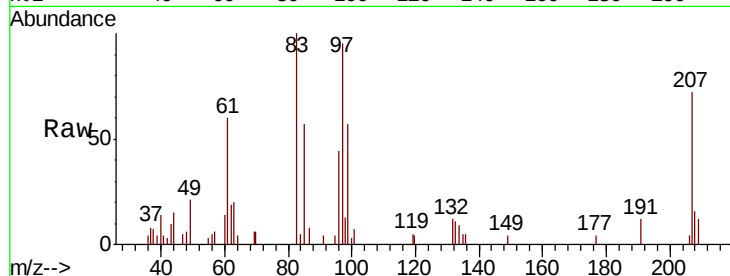
#55
 1,1,2-Trichloroethane
 Concen: 5.115 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	105.7	69.7	104.5#
85	60.4	48.1	72.1
99	60.7	51.9	77.9

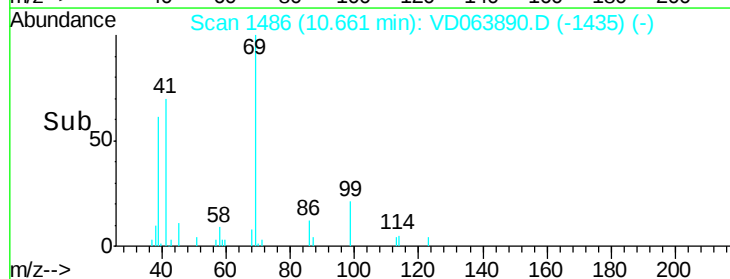
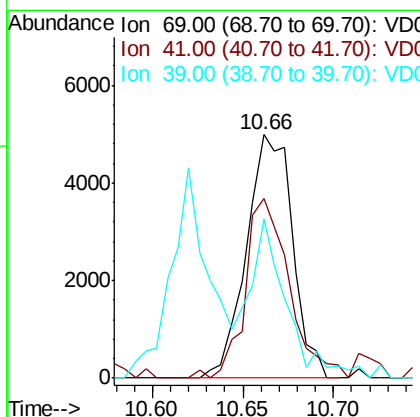
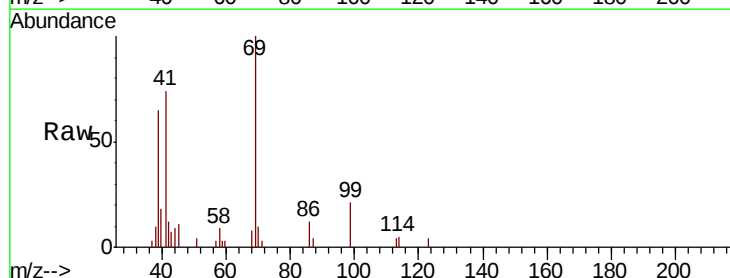
Manual Integrations
 APPROVED

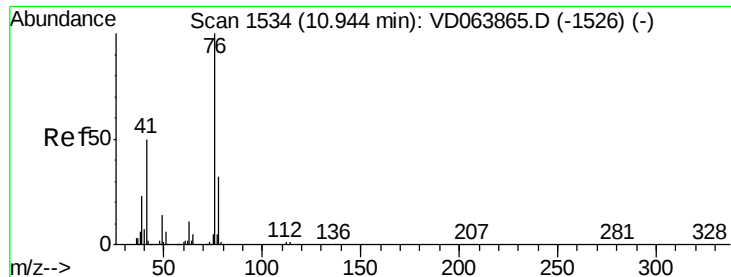
MMDadoda
 10/8/2019 3:11:42 PM



#56
 Ethyl methacrylate
 Concen: 4.601 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
69	100		
41	70.6	51.3	76.9
39	54.3	28.0	42.0#





#57

1,3-Dichloropropane

Concen: 5.194 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 76 Resp: 13415

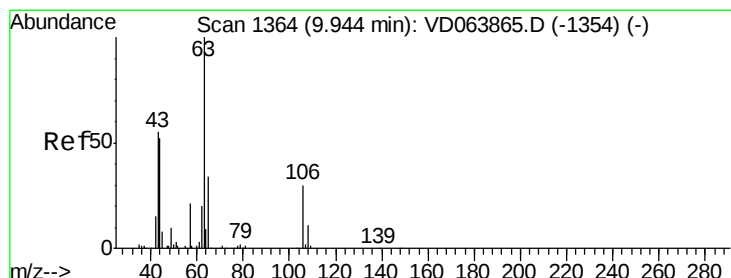
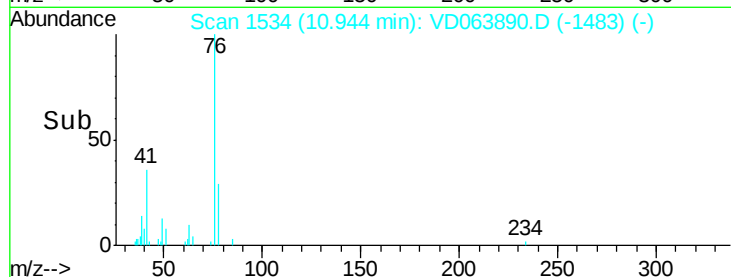
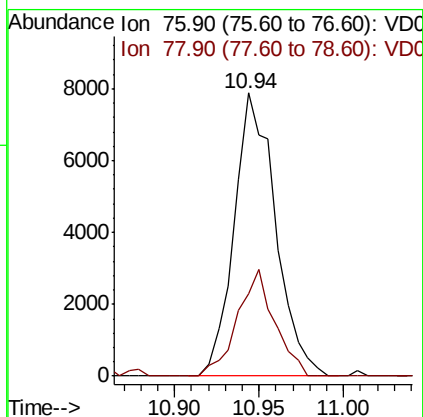
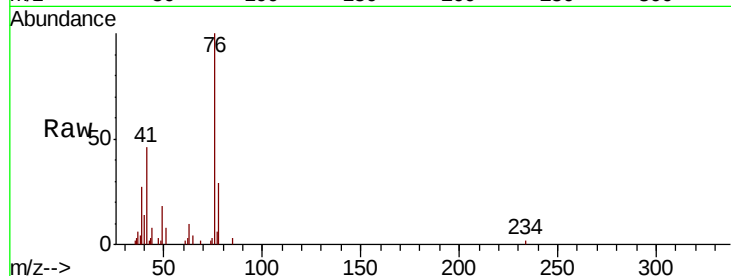
Ion Ratio Lower Upper

76 100

78 33.9 26.6 40.0

Manual Integrations
APPROVED

MMDadoda
10/8/2019 3:11:42 PM



#58

2-Chloroethyl Vinyl ether

Concen: 26.203 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD063890.D

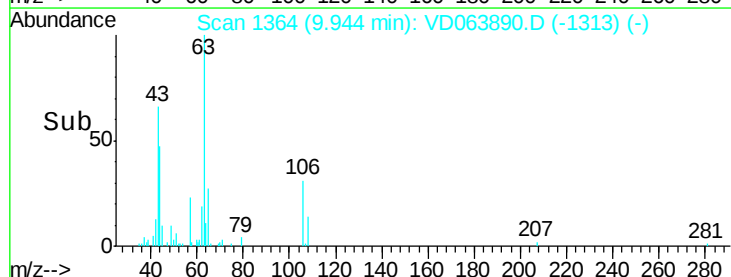
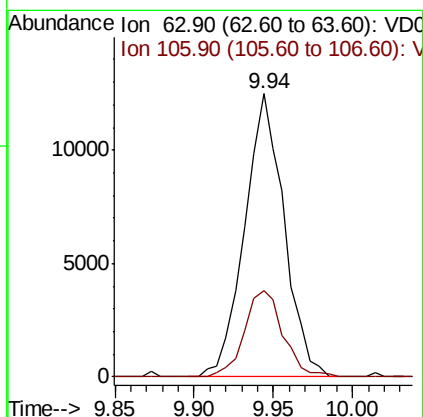
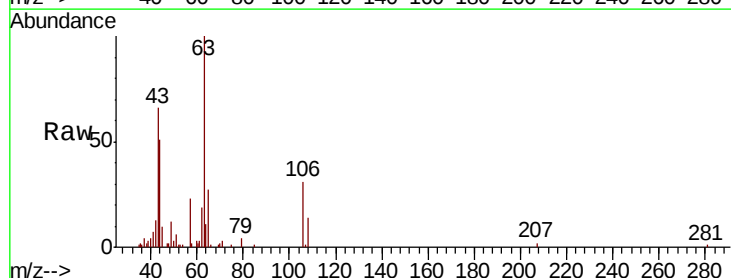
Acq: 04 Oct 2019 17:39

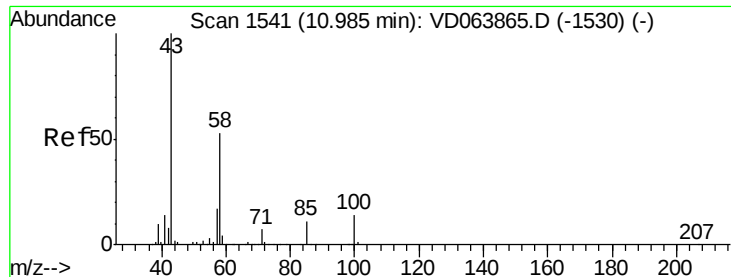
Tgt Ion: 63 Resp: 21532

Ion Ratio Lower Upper

63 100

106 29.9 24.3 36.5





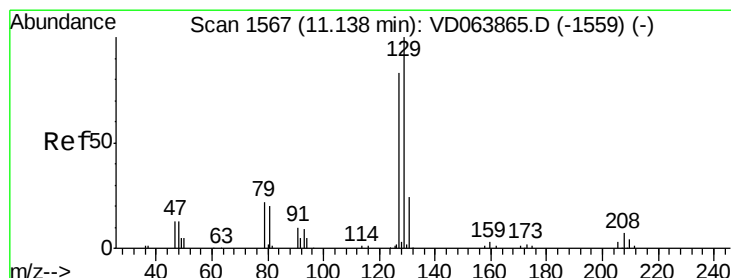
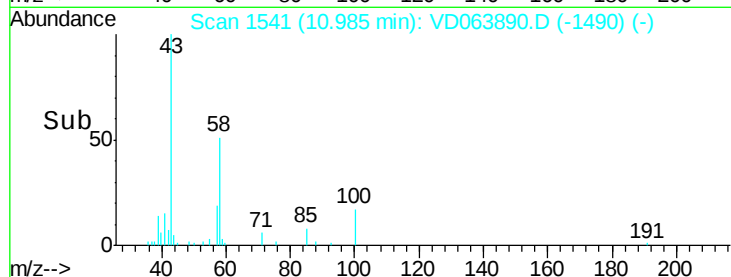
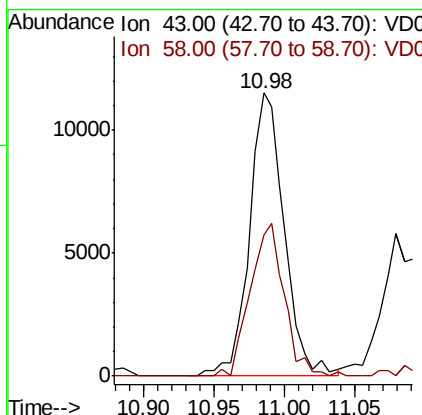
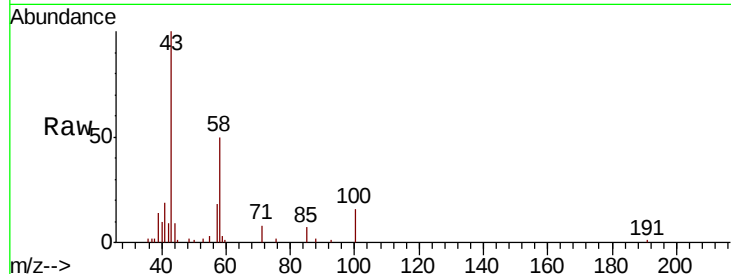
#59
2-Hexanone
Concen: 23.689 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 19948
Ion Ratio Lower Upper
43 100
58 52.8 27.7 83.0

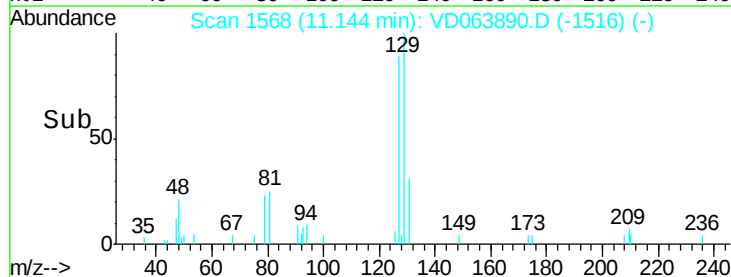
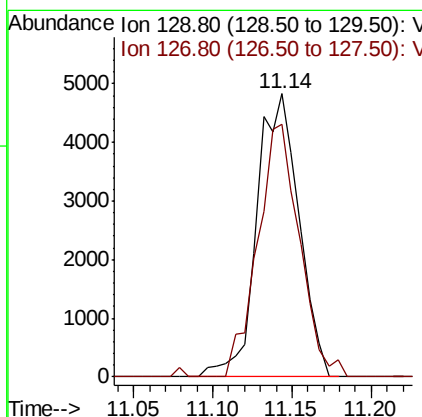
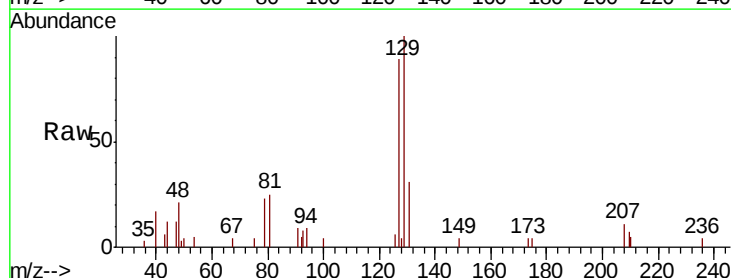
Manual Integrations
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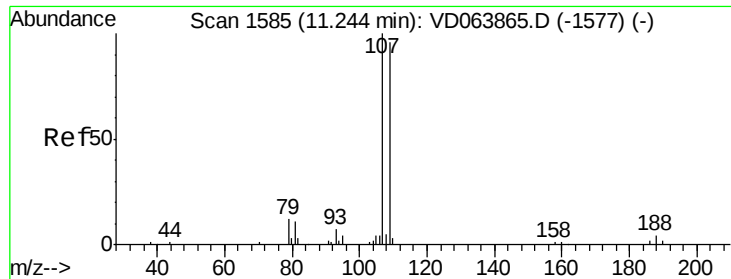
MMDadoda
10/8/2019 3:11:42 PM



#60
Dibromochloromethane
Concen: 4.526 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion:129 Resp: 8895
Ion Ratio Lower Upper
129 100
127 89.1 39.9 119.6





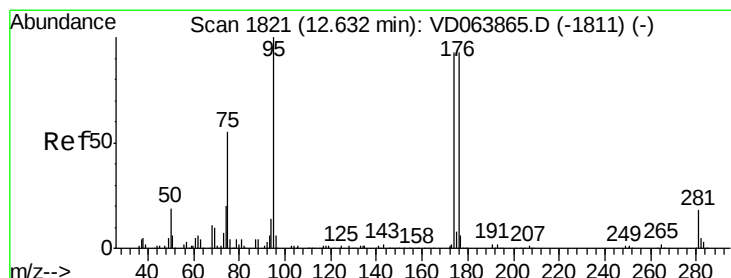
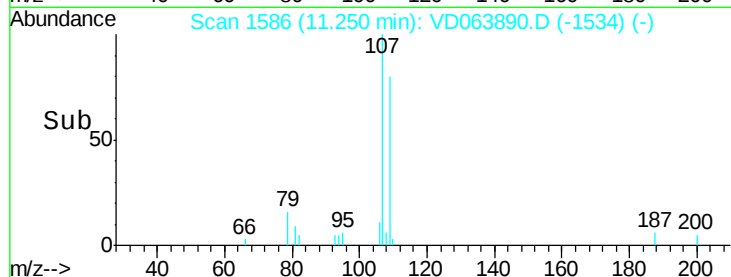
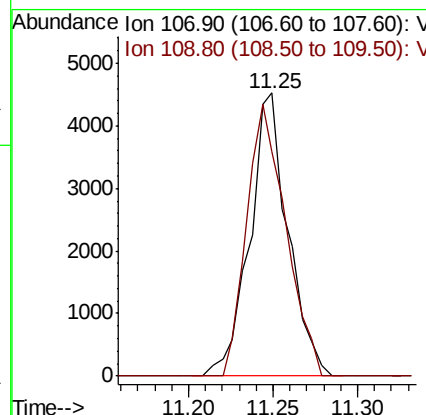
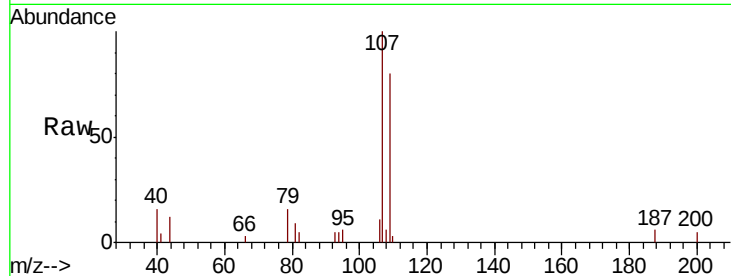
#61
 1,2-Dibromoethane
 Concen: 4.873 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.7	75.2	112.8

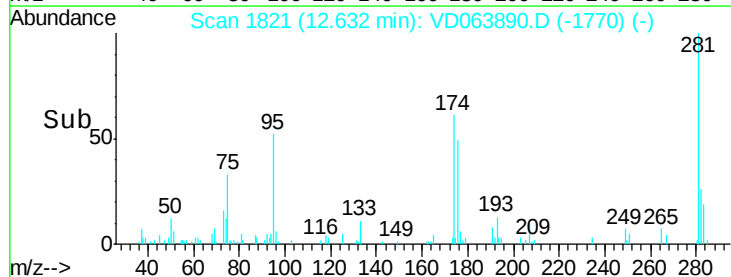
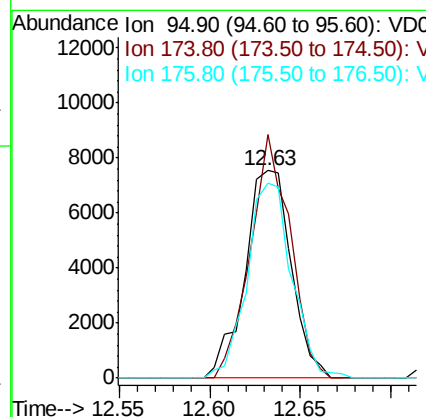
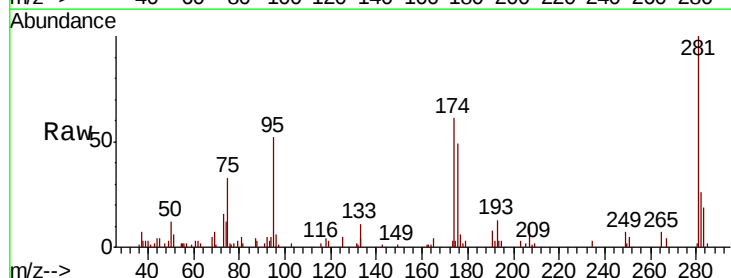
Manual Integrations
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#62
 4-Bromofluorobenzene
 Concen: 5.313 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	100.5	0.0	186.4
176	90.9	0.0	184.2





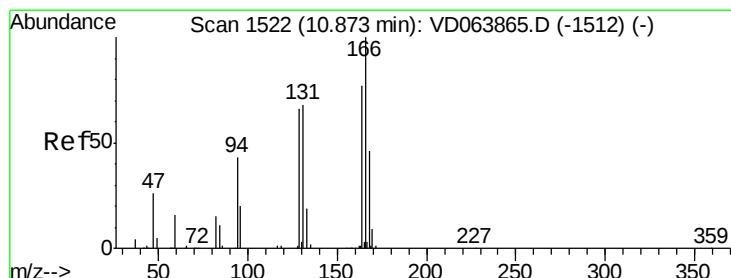
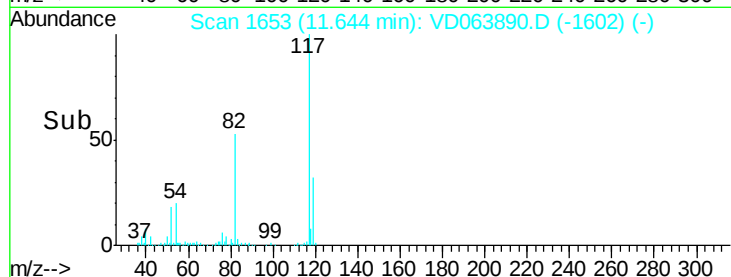
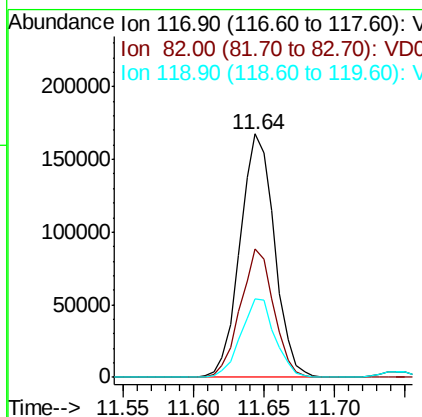
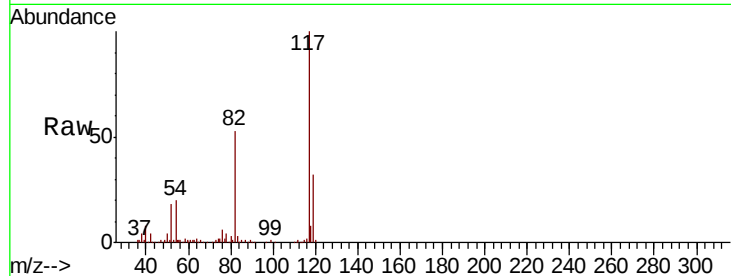
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	286521		
82	52.6		42.8	64.2
119	32.4		24.4	36.6

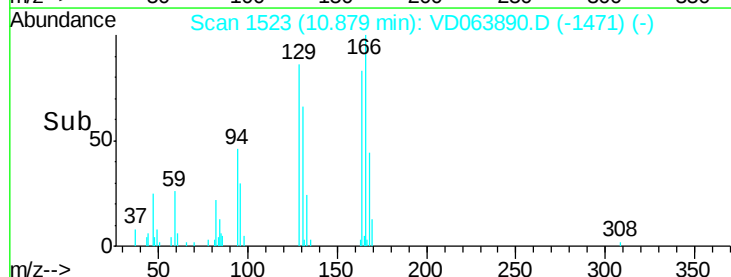
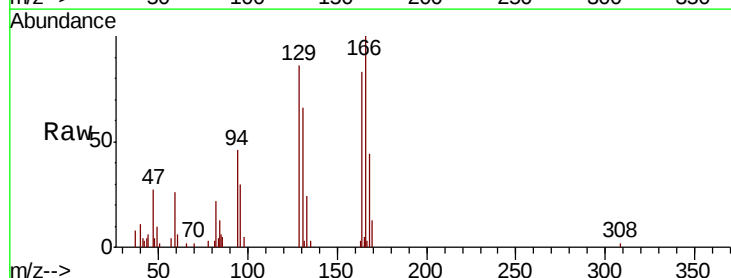
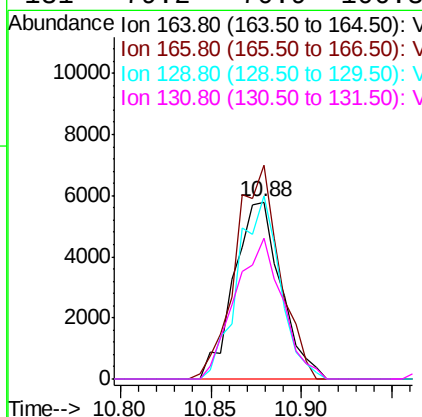
Manual Integrations
APPROVED

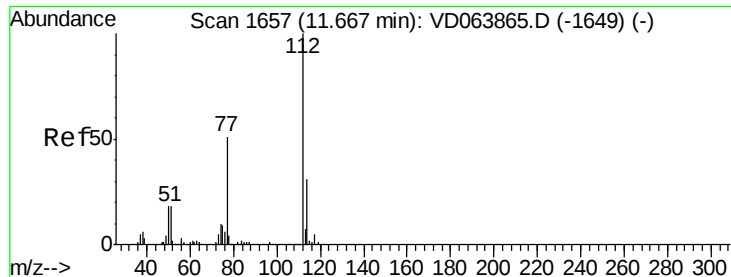
MMDadoda
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#64
Tetrachloroethene
Concen: 5.300 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	10366		
166	120.6		103.8	155.6
129	103.5		68.9	103.3
131	79.2		70.9	106.3





#65

Chlorobenzene

Concen: 5.183 ug/l

RT: 11.67 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:112 Resp: 29824

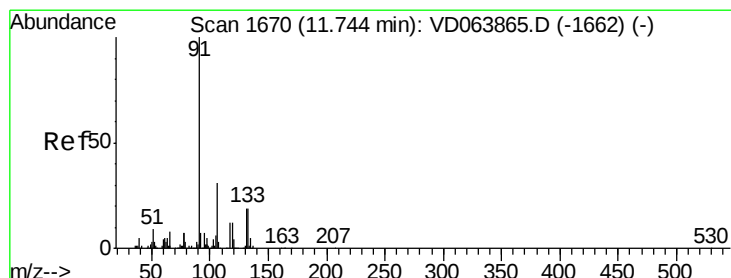
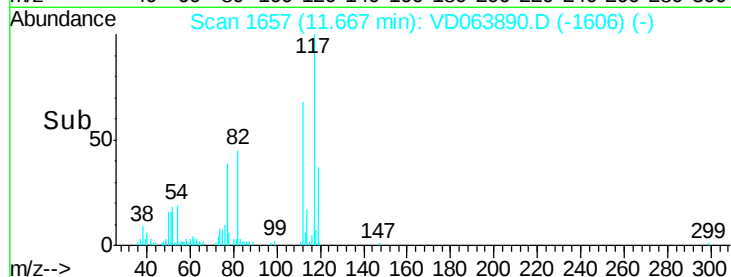
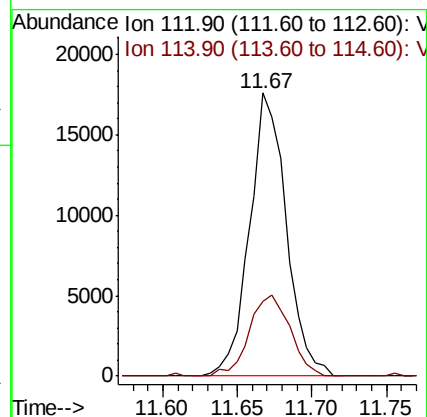
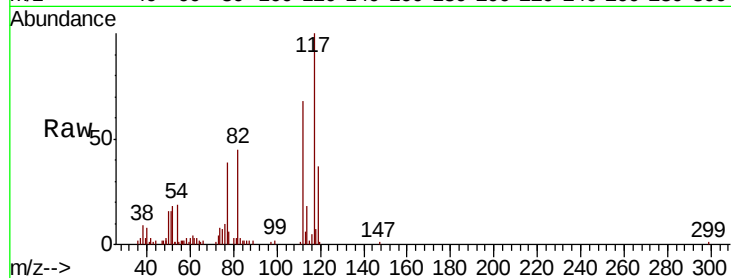
Ion Ratio Lower Upper

112 100

114 26.6 25.1 37.7

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 4.479 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

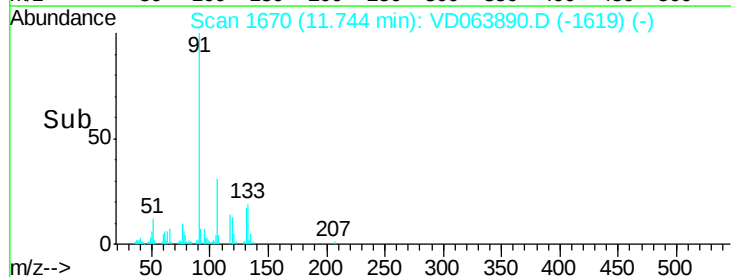
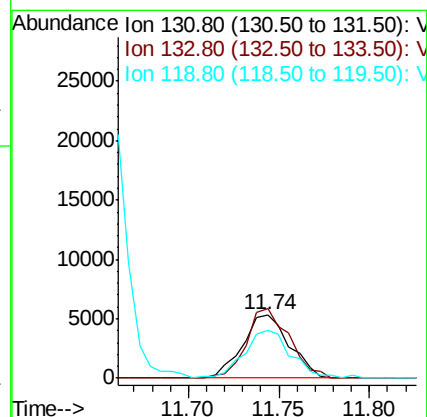
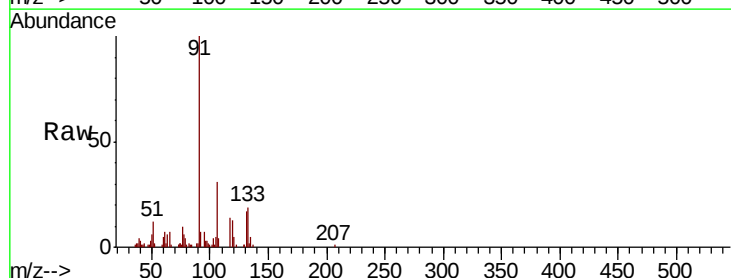
Tgt Ion:131 Resp: 9496

Ion Ratio Lower Upper

131 100

133 101.5 48.9 146.7

119 76.0 32.6 97.8





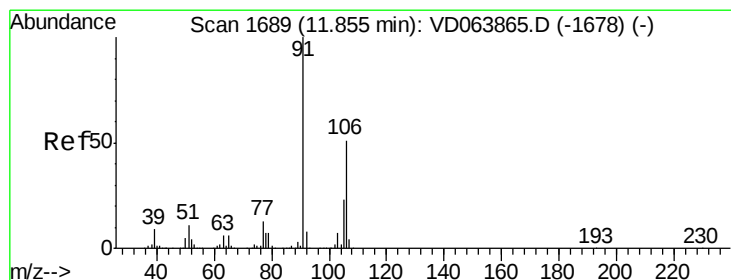
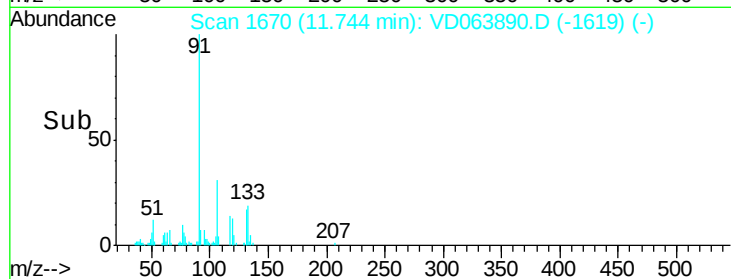
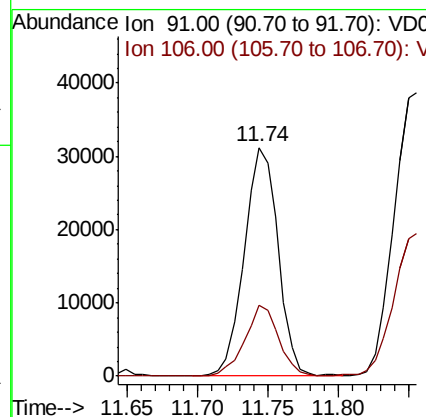
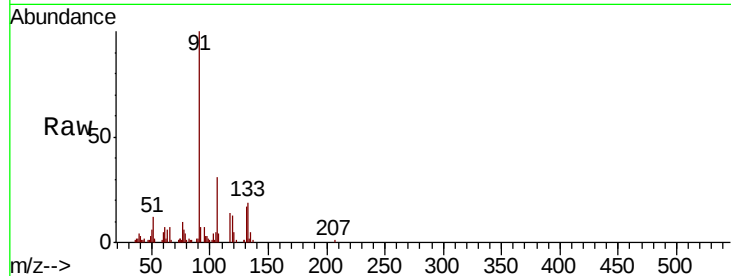
#67
Ethyl Benzene
Concen: 5.059 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	30.8	24.6	37.0	

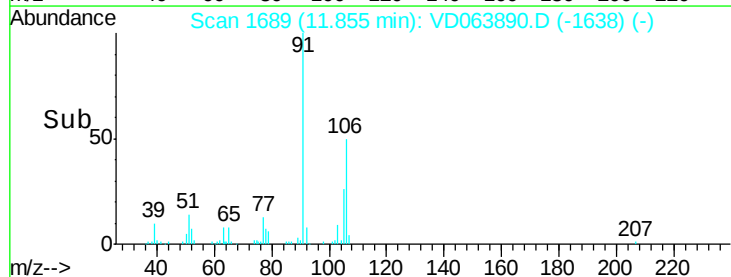
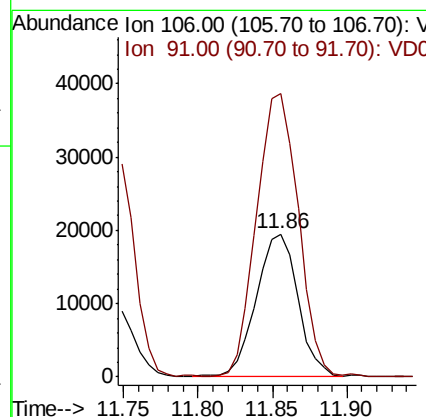
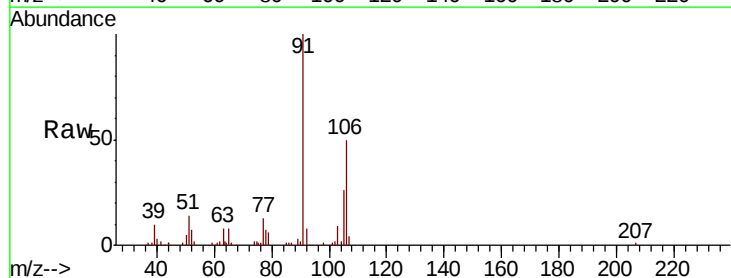
Manual Integrations
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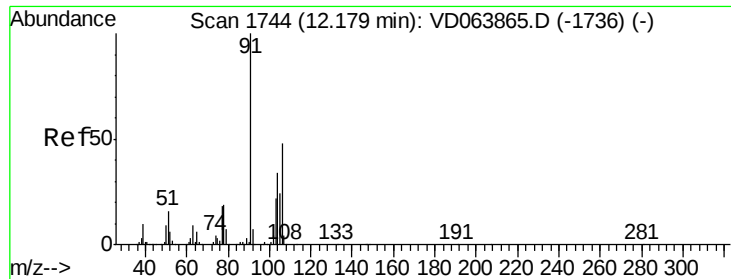
MMDadoda
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#68
m/p-Xylenes
Concen: 9.400 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
91	200.1	154.8	232.2	





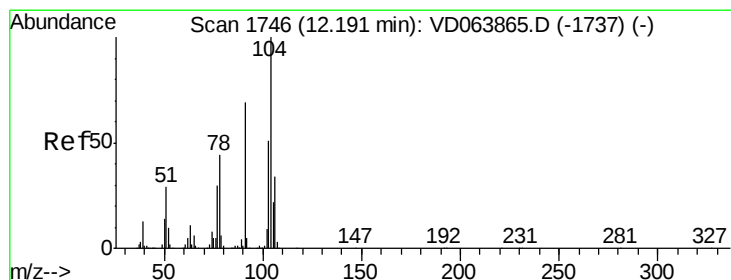
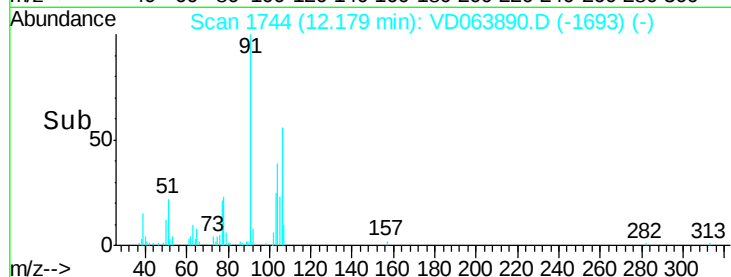
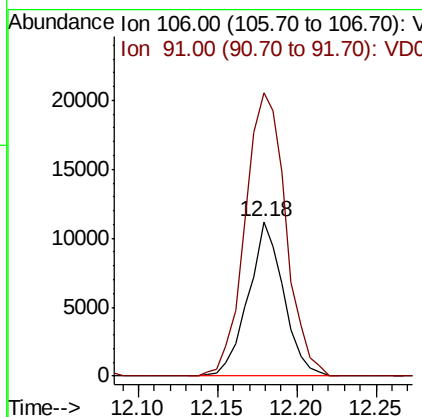
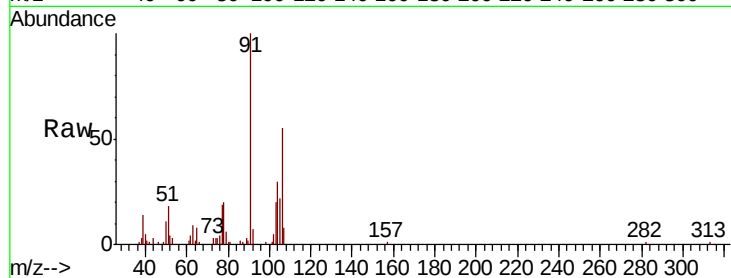
#69
o-Xylene
Concen: 4.510 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.0	103.9	311.7

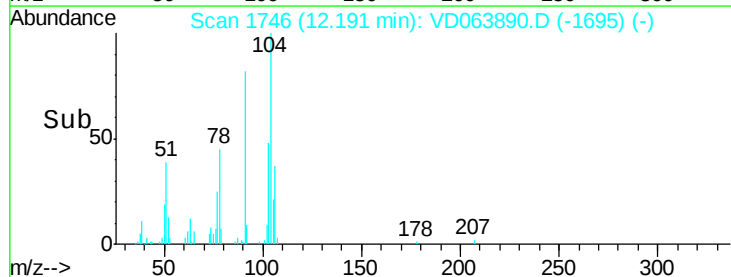
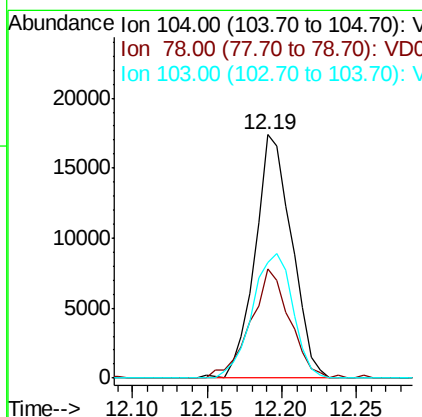
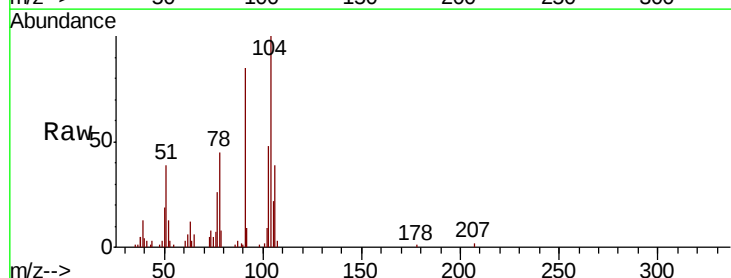
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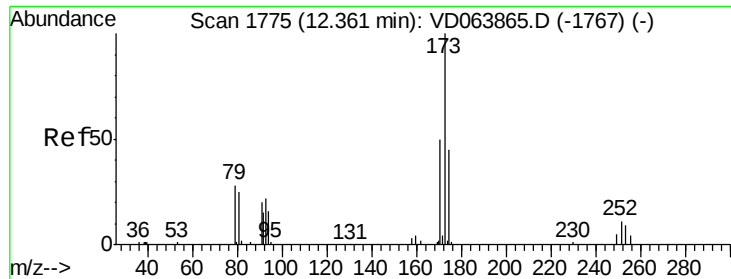
MMDadoda
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#70
Styrene
Concen: 4.562 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.6	37.0	55.4
103	56.1	44.2	66.4





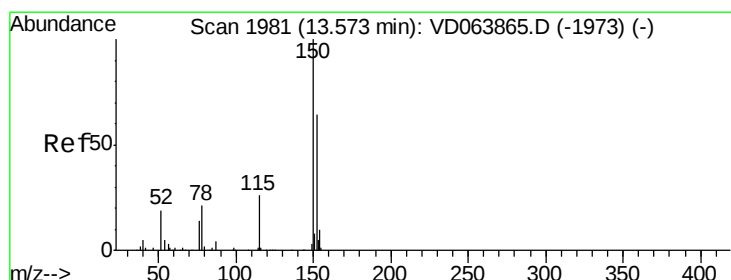
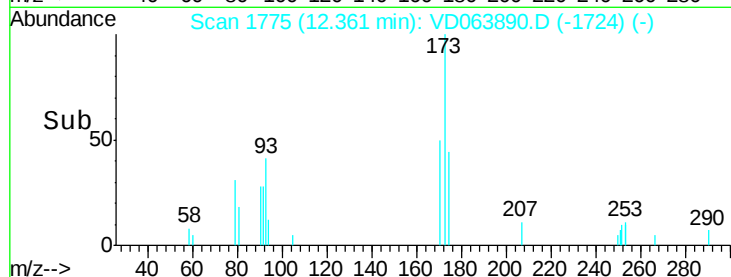
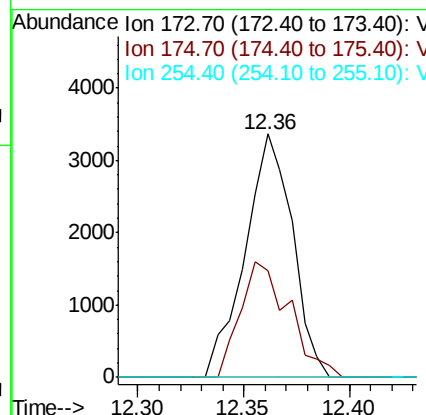
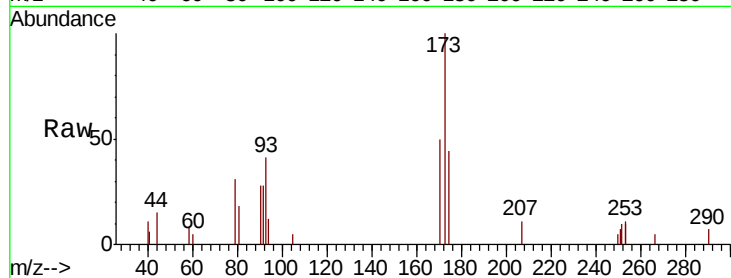
#71
Bromoform
Concen: 4.604 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	74.0
254	0.0	0.0	0.0

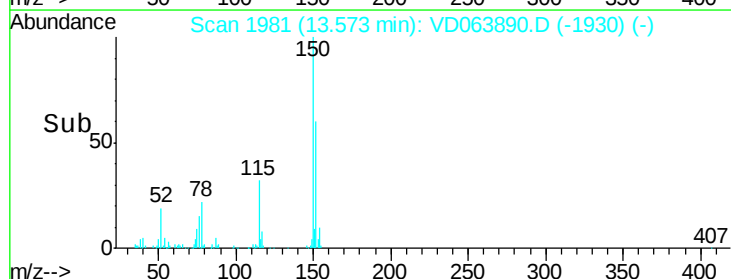
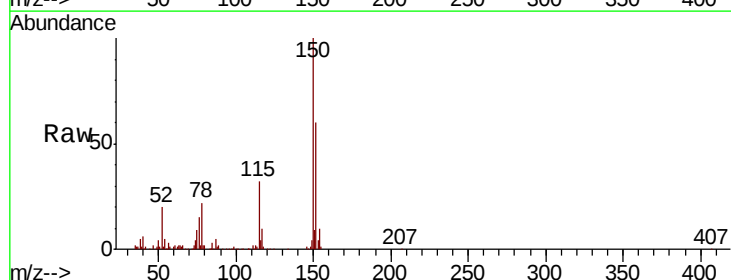
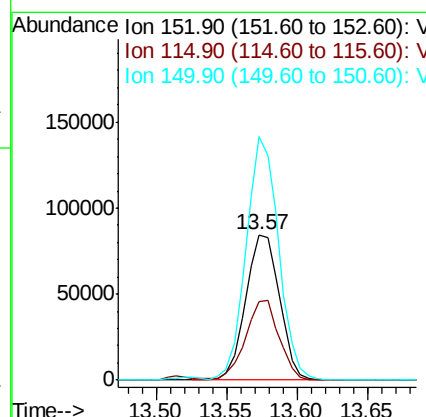
Manual Integrations
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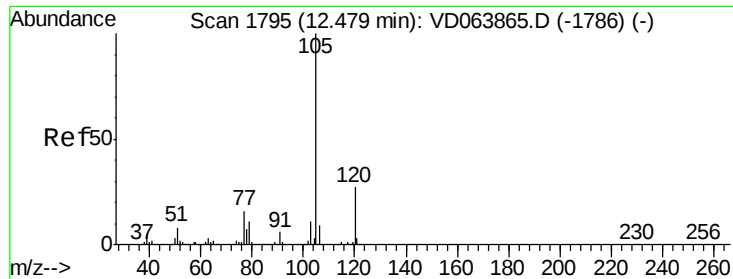
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	25.9	77.7
150	160.5	0.0	344.2





#73

Isopropylbenzene

Concen: 4.847 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 105 Resp: 46384

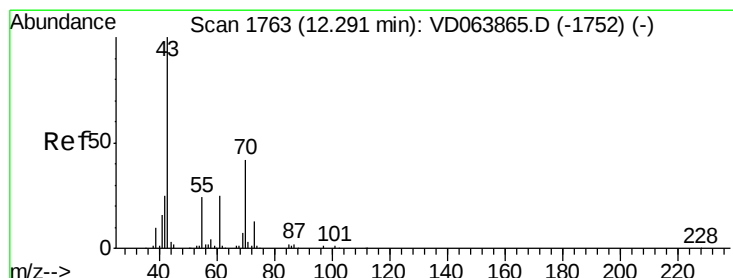
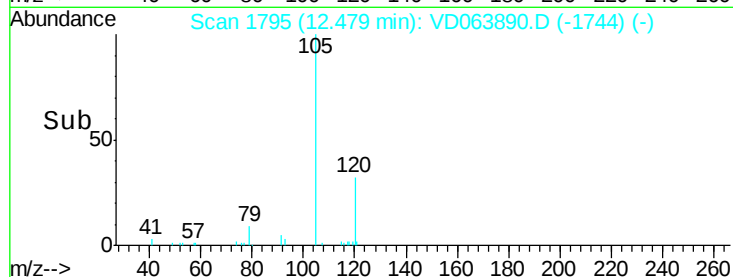
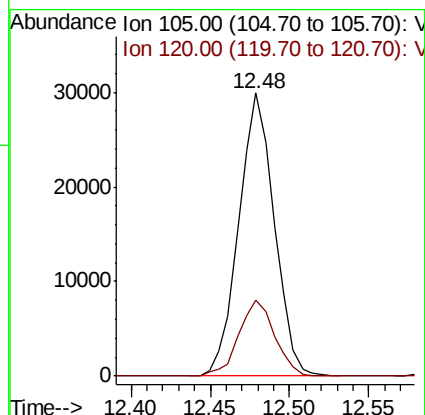
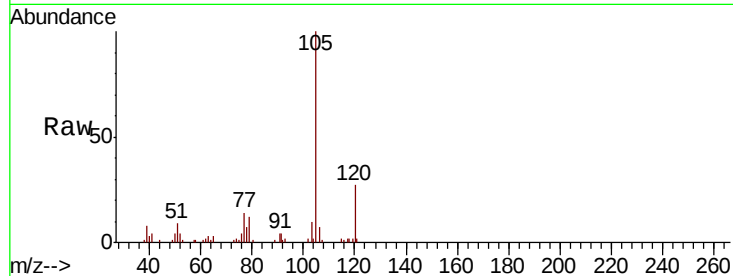
Ion Ratio Lower Upper

105 100

120 27.0 13.3 39.8

Manual Integrations
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#74

N-ethyl acetate

Concen: 5.421 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion: 43 Resp: 11169

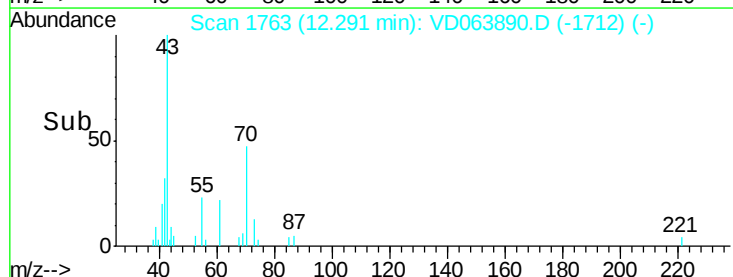
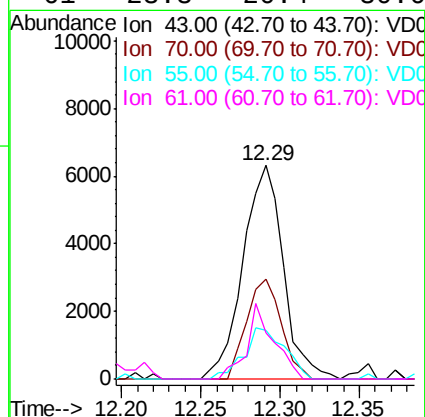
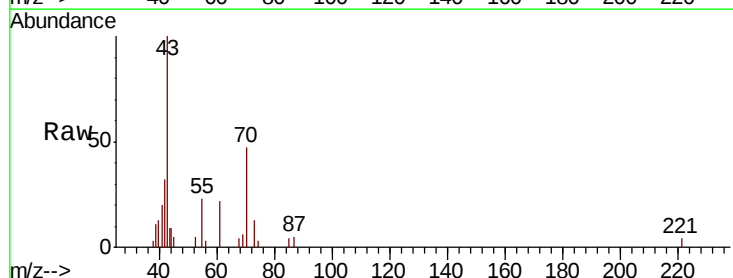
Ion Ratio Lower Upper

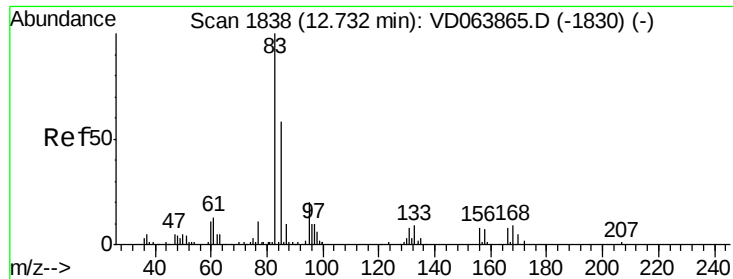
43 100

70 40.2 35.8 53.6

55 24.2 19.4 29.0

61 23.3 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.298 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

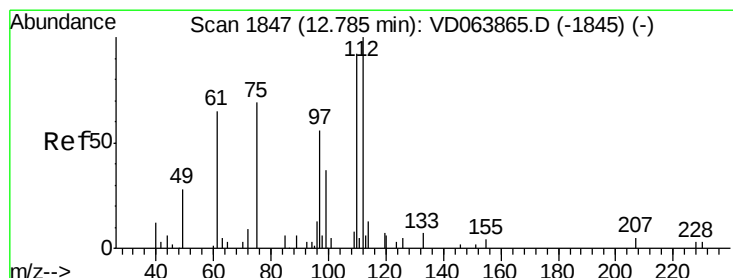
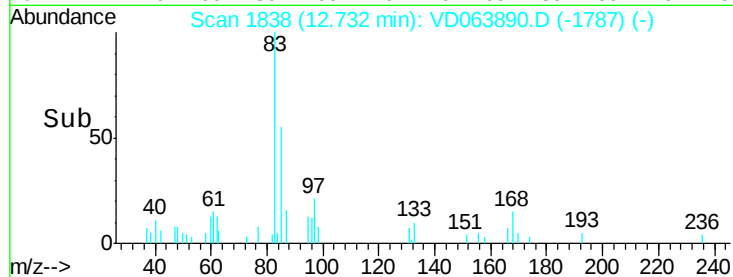
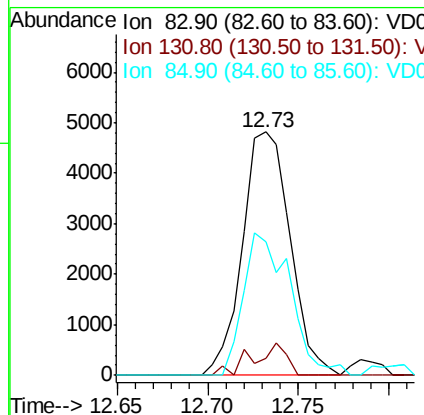
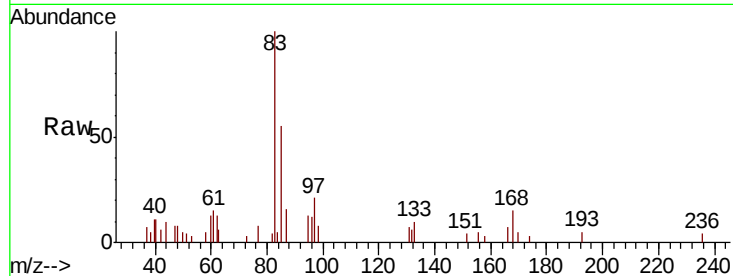
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	83	Resp:	8821
Ion Ratio	Lower	Upper	
83	100		
131	9.3	5.6	16.8
85	57.1	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 7.175 ug/l m

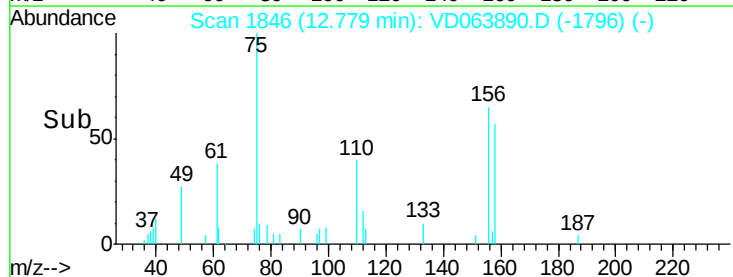
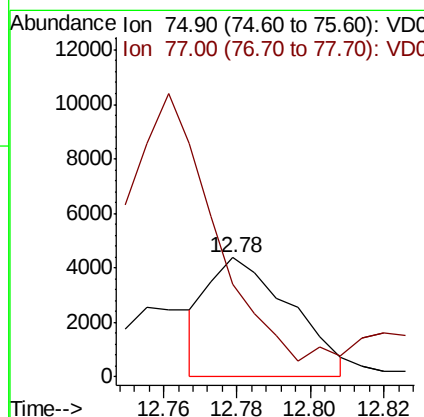
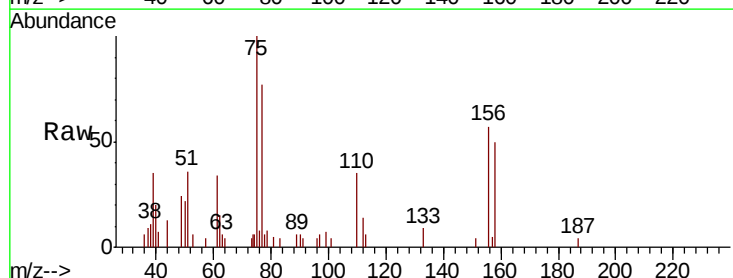
RT: 12.78 min Scan# 1846

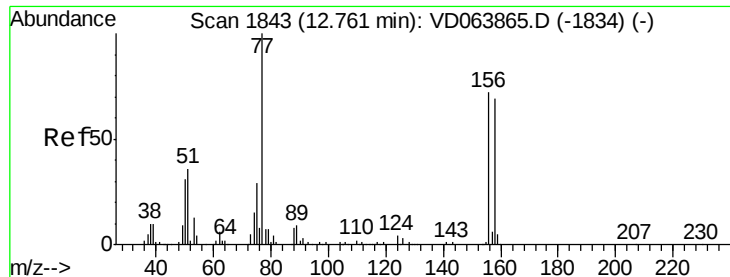
Delta R.T. -0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion:	75	Resp:	6840
Ion Ratio	Lower	Upper	
75	100		
77	277.0	0.0	0.0#





#77

Bromobenzene

Concen: 5.246 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

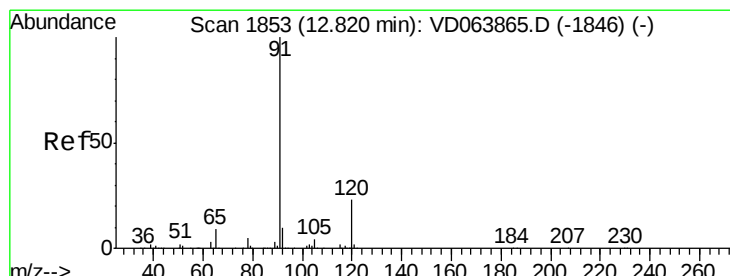
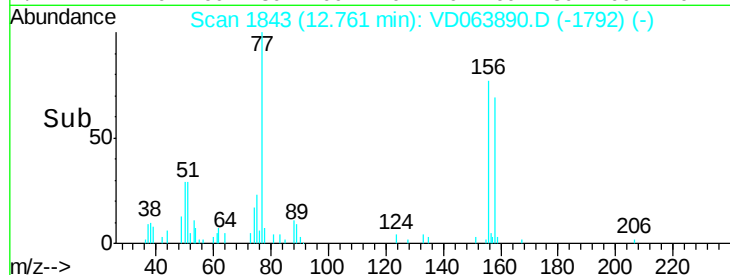
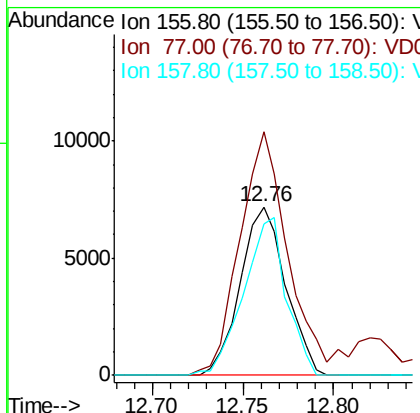
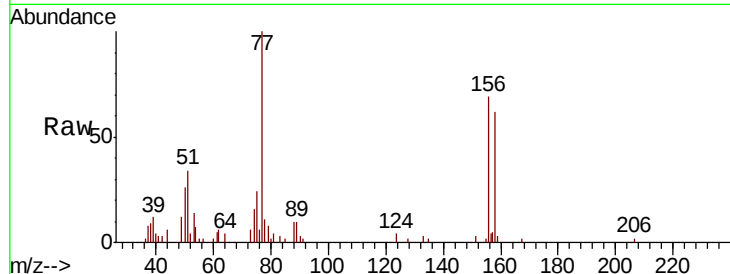
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	151.5	80.3	241.0
158	87.8	47.4	142.2

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#78

n-propylbenzene

Concen: 5.190 ug/l

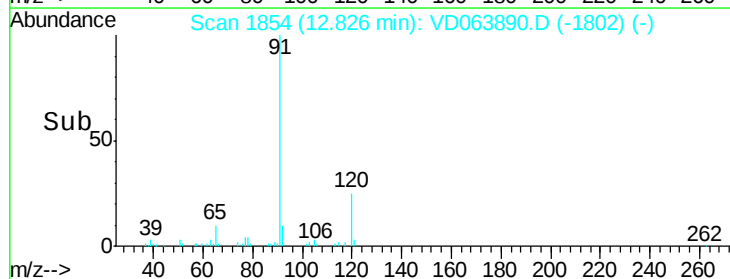
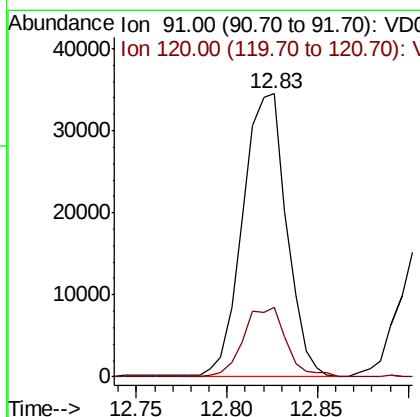
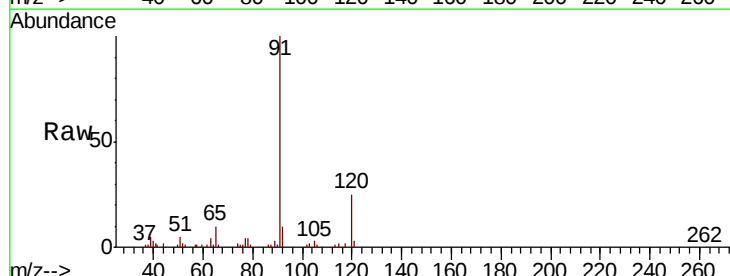
RT: 12.83 min Scan# 1854

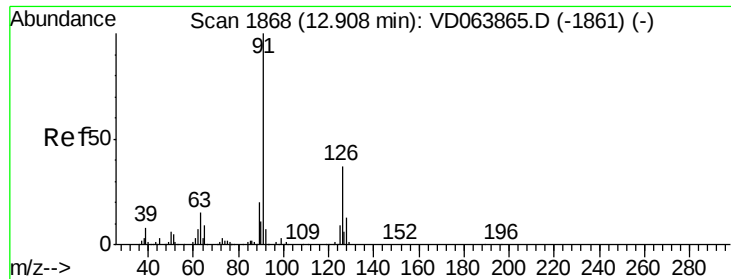
Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	12.0	36.0





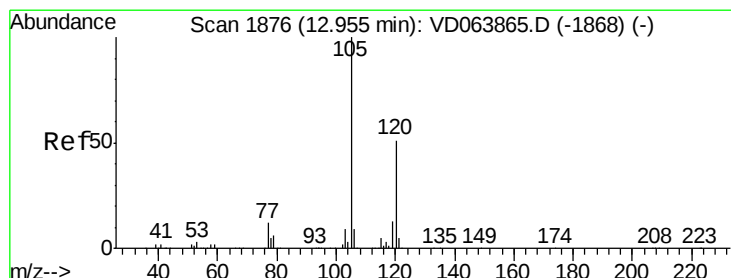
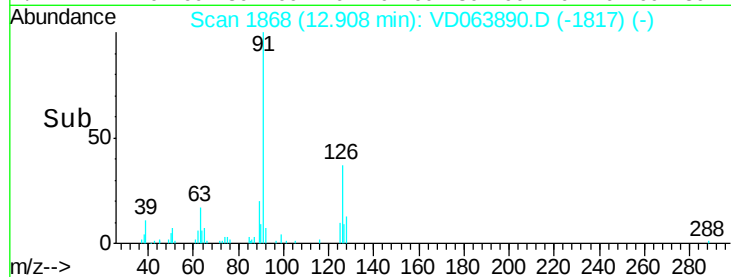
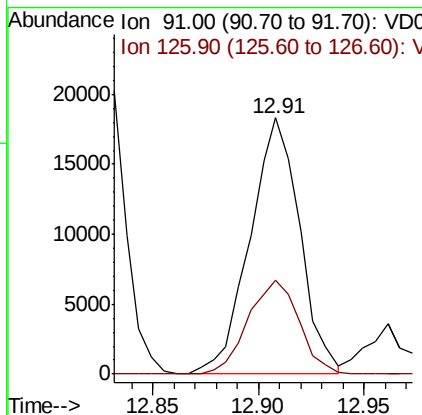
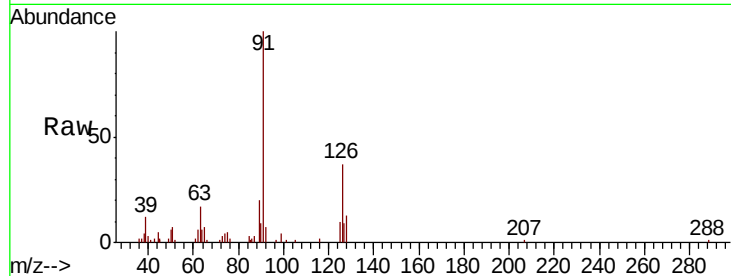
#79
2-Chlorotoluene
Concen: 4.847 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 91 Resp: 30017
Ion Ratio Lower Upper
91 100
126 37.4 18.4 55.2

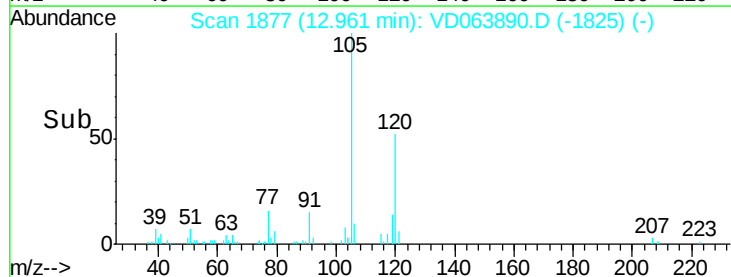
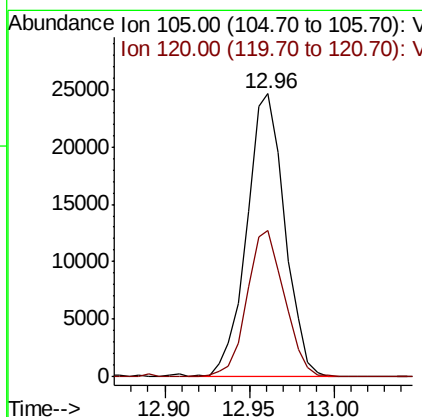
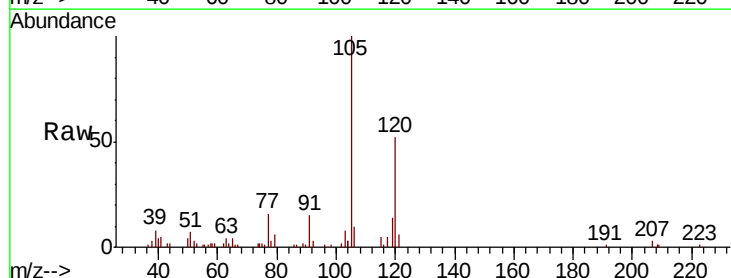
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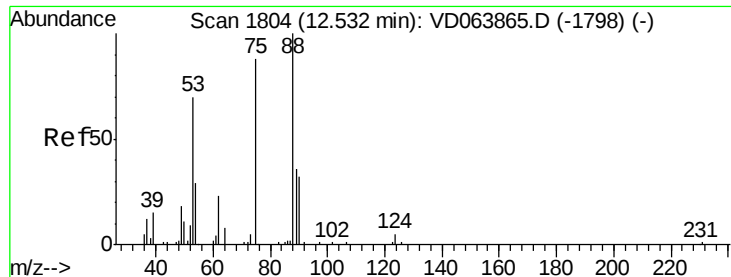
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#80
1,3,5-Trimethylbenzene
Concen: 4.838 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion: 105 Resp: 38626
Ion Ratio Lower Upper
105 100
120 51.0 25.9 77.8





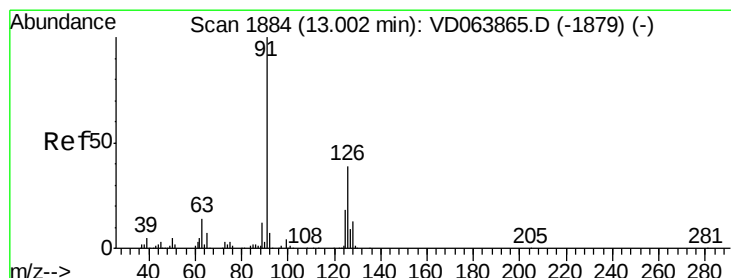
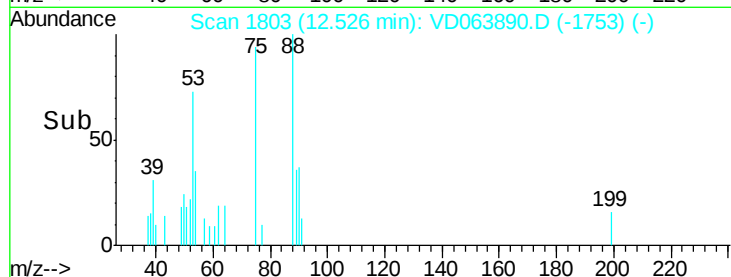
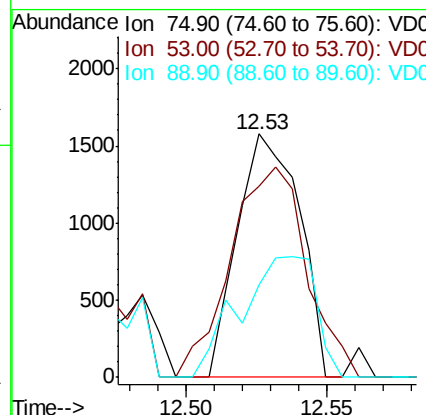
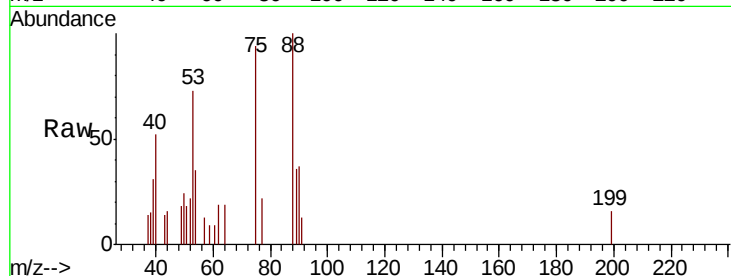
#81
trans-1,4-Dichloro-2-butene
Concen: 4.464 ug/l
RT: 12.53 min Scan# 1803
Delta R.T. -0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	106.0	75.0	112.6
89	60.9	38.2	57.4

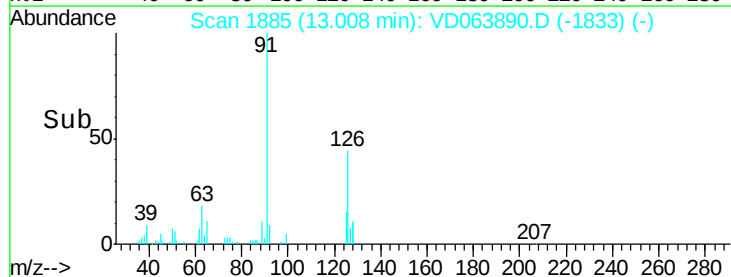
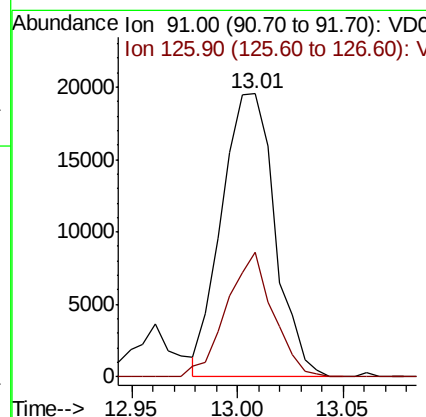
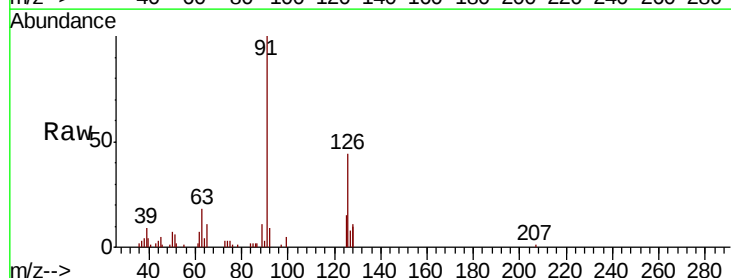
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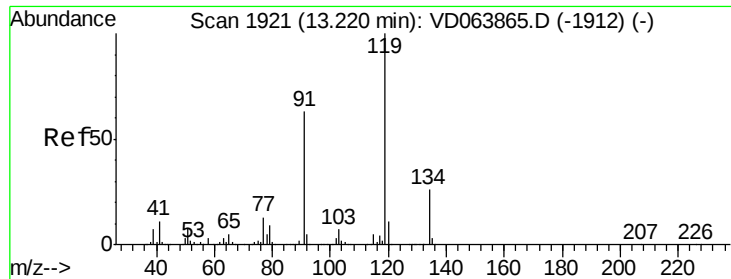
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#82
4-Chlorotoluene
Concen: 5.199 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.2	18.6	55.8





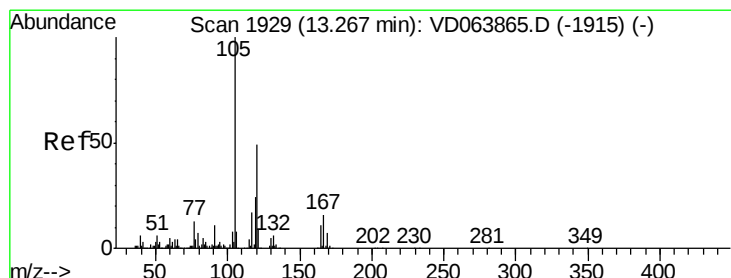
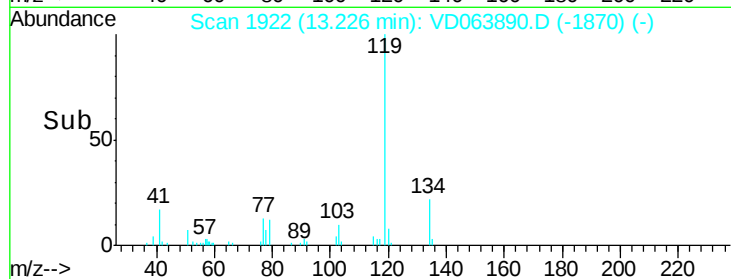
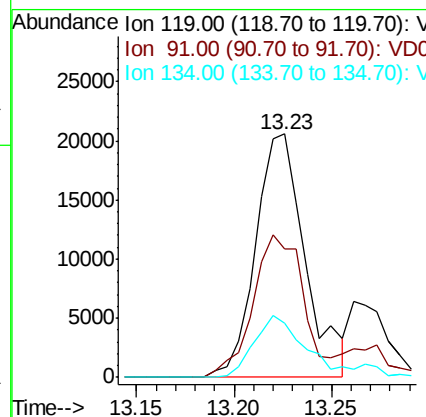
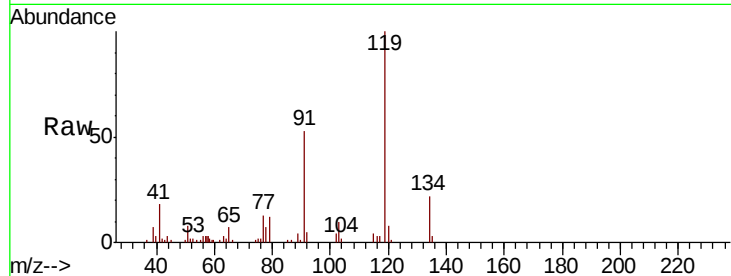
#83
 tert-Butylbenzene
 Concen: 5.090 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	59.5	30.0	90.0
134	26.4	13.0	38.9

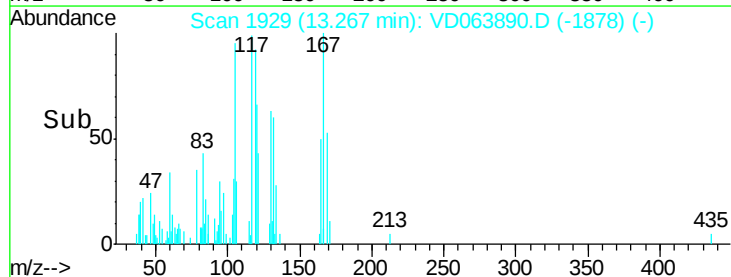
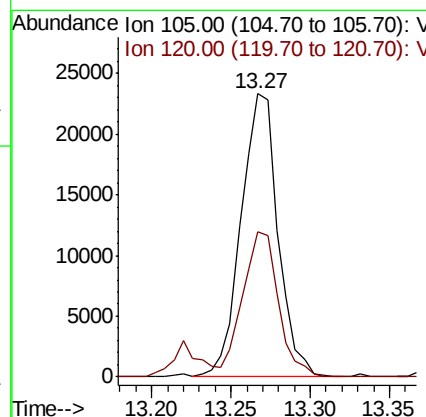
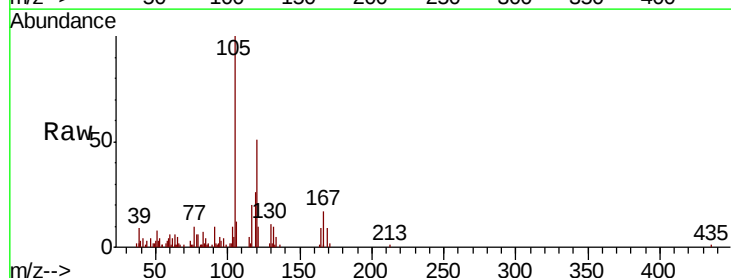
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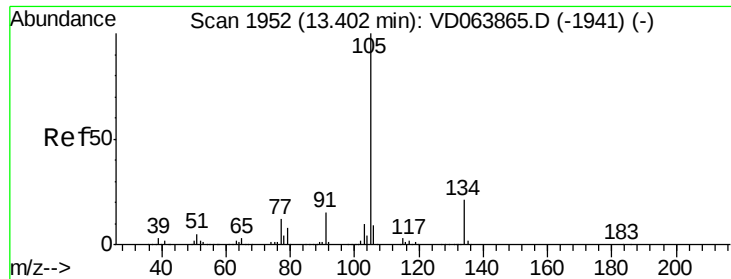
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#84
 1,2,4-Trimethylbenzene
 Concen: 4.573 ug/l
 RT: 13.27 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.3	23.8	71.5





#85

sec-Butylbenzene

Concen: 5.086 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:105 Resp: 48803

Ion Ratio Lower Upper

105 100

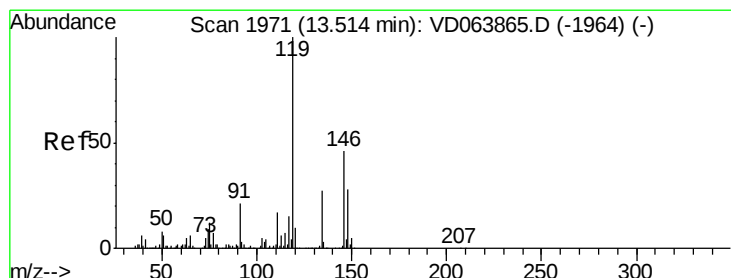
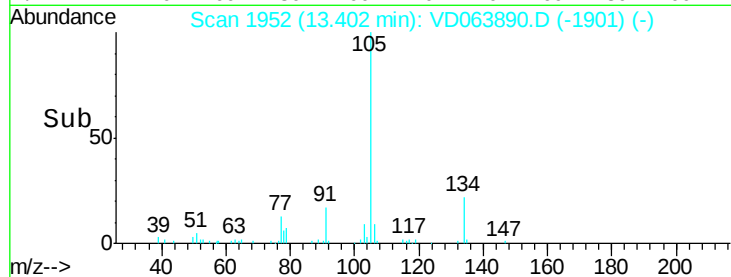
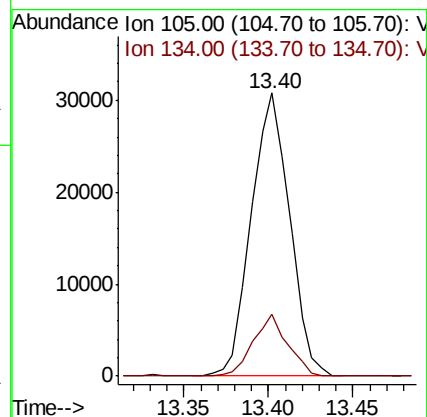
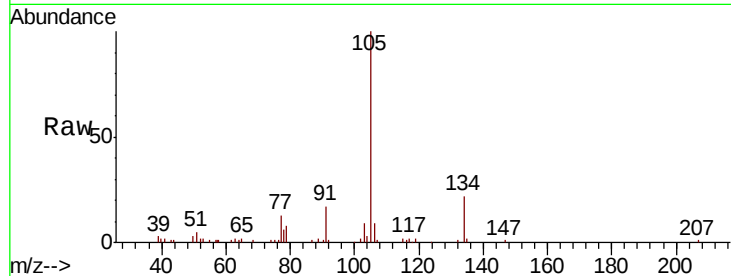
134 19.3 10.6 31.8

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#86

p-Isopropyltoluene

Concen: 4.503 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD063890.D

Acq: 04 Oct 2019 17:39

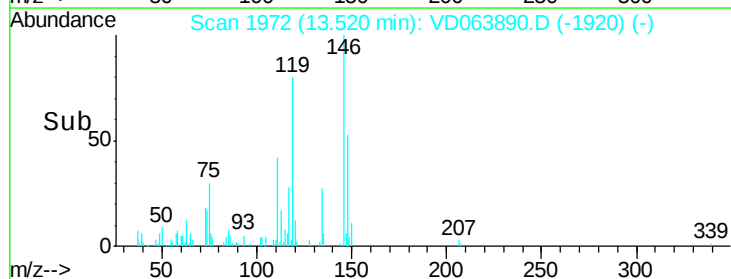
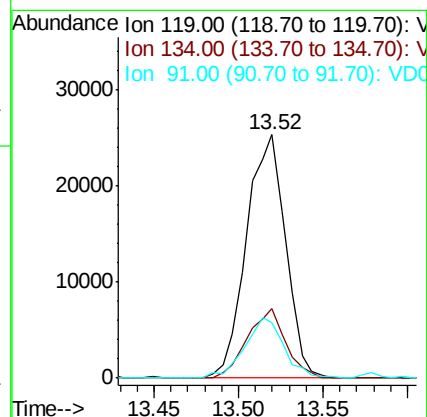
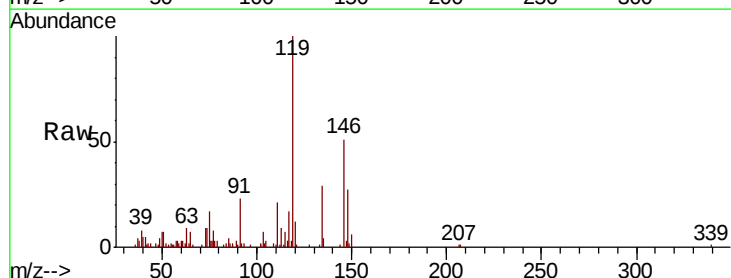
Tgt Ion:119 Resp: 40887

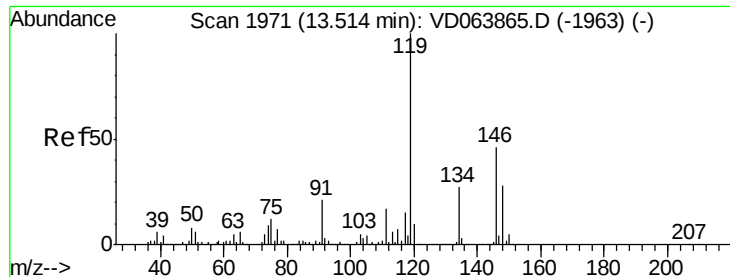
Ion Ratio Lower Upper

119 100

134 27.9 13.9 41.6

91 25.2 11.2 33.5





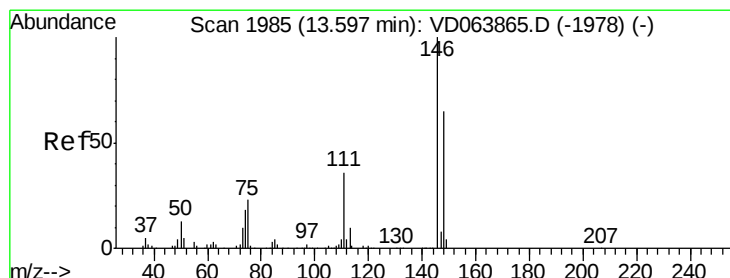
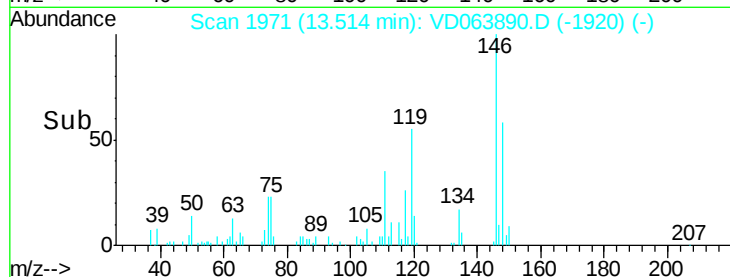
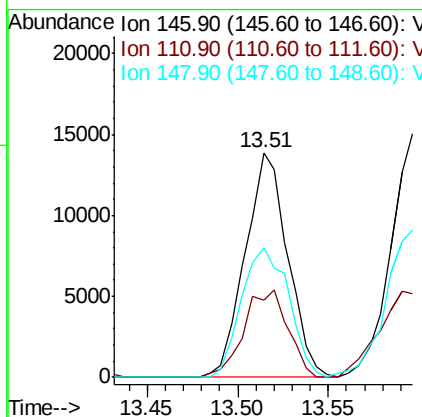
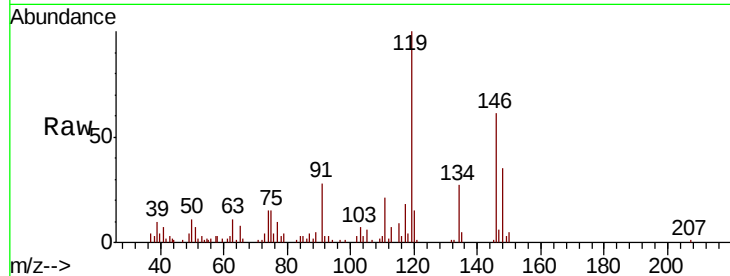
#87
 1,3-Dichlorobenzene
 Concen: 4.811 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.3	54.9
148	63.9	31.8	95.4

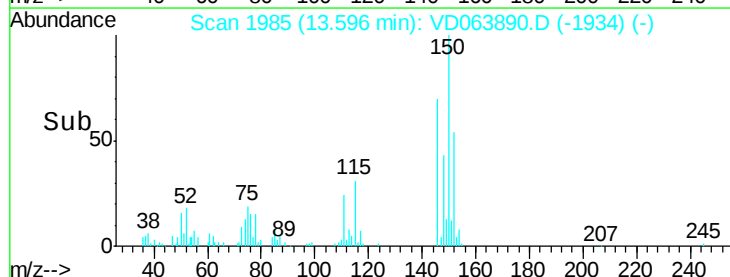
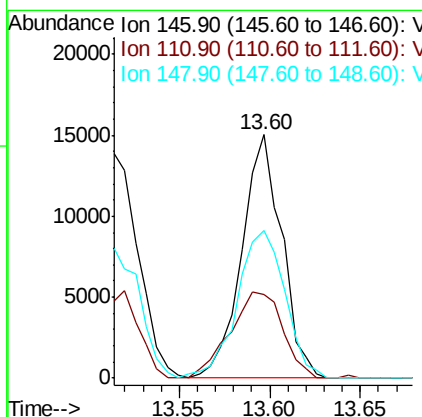
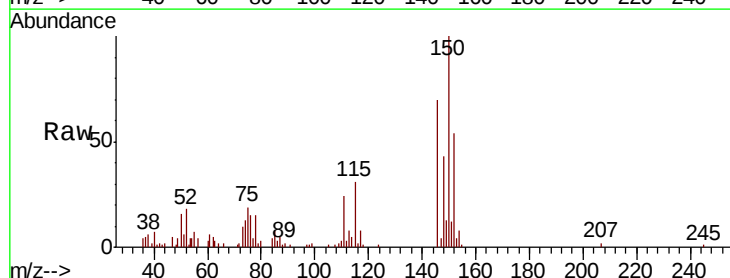
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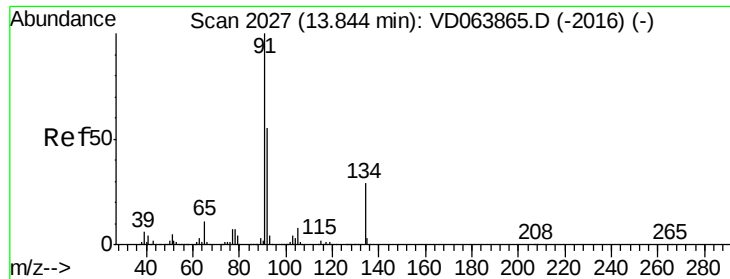
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#88
 1,4-Dichlorobenzene
 Concen: 4.977 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.4	18.6	56.0
148	72.4	32.6	98.0





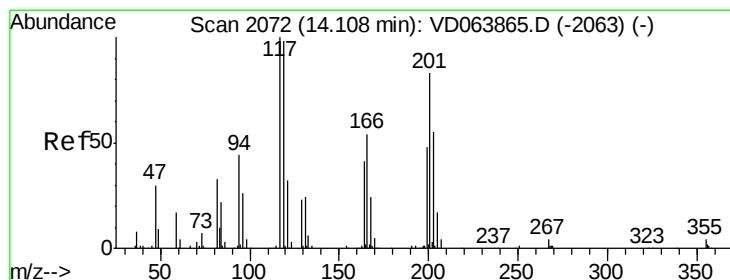
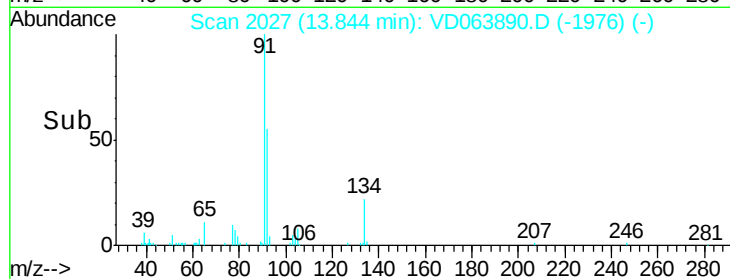
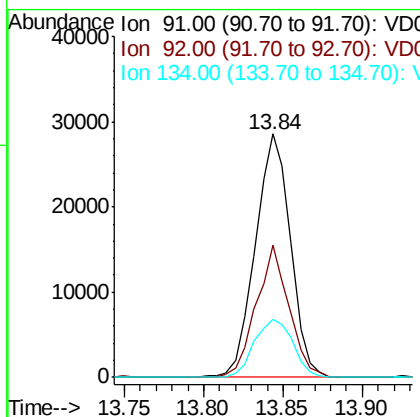
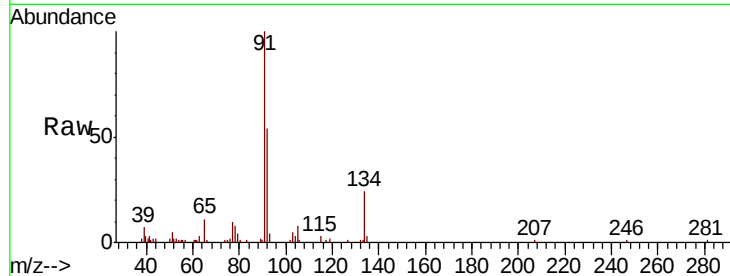
#89
n-Butylbenzene
Concen: 5.197 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100	43921		
92	50.9	26.8	80.3	
134	26.2	14.4	43.0	

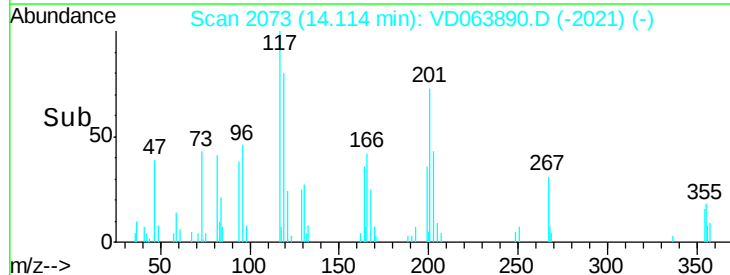
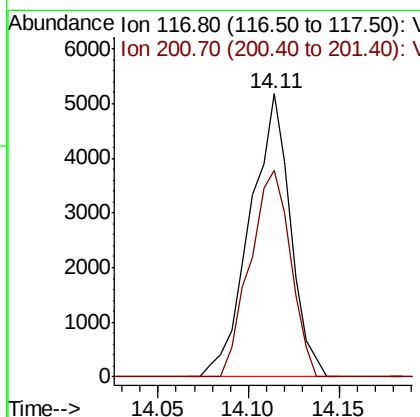
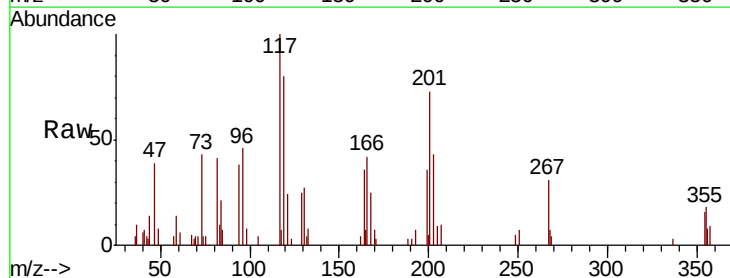
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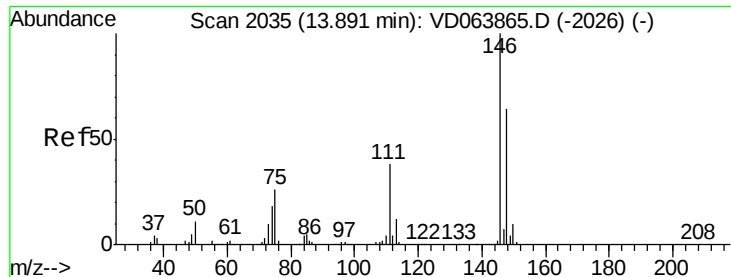
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#90
Hexachloroethane
Concen: 4.911 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	8019		
201	73.4	40.6	121.7	





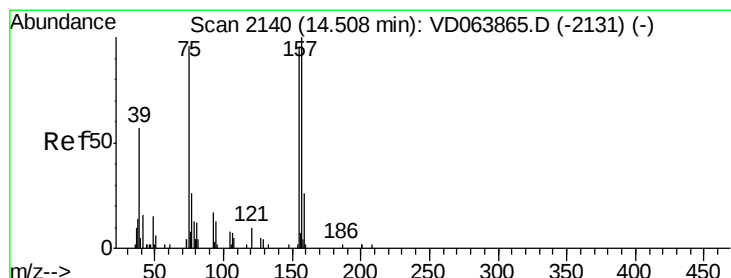
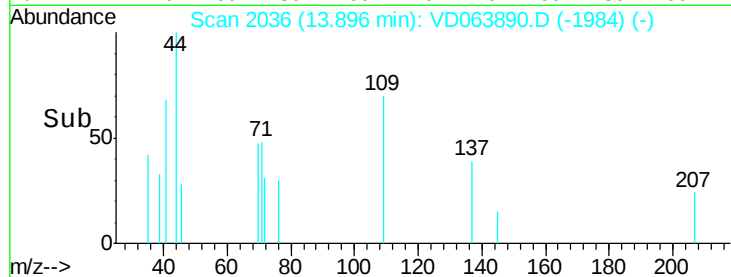
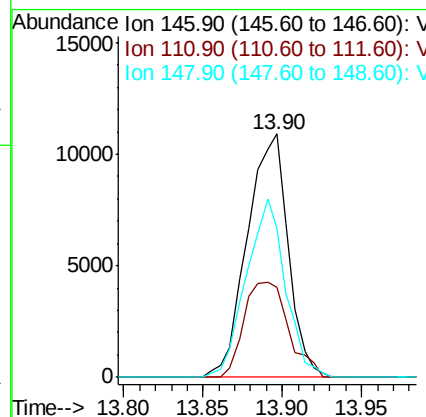
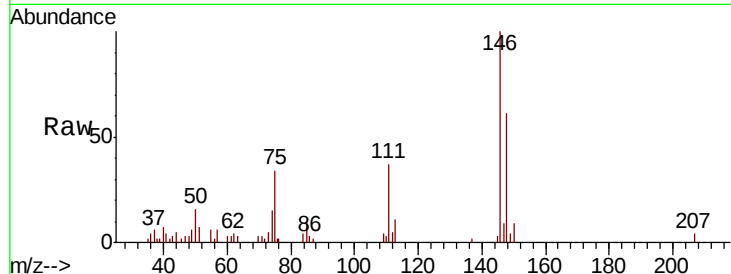
#91
 1,2-Dichlorobenzene
 Concen: 4.827 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	18.6	55.6
148	70.0	31.6	95.0

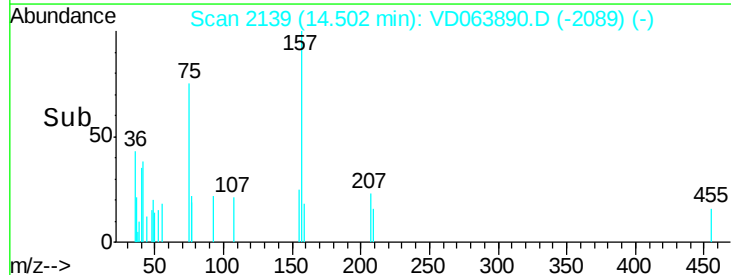
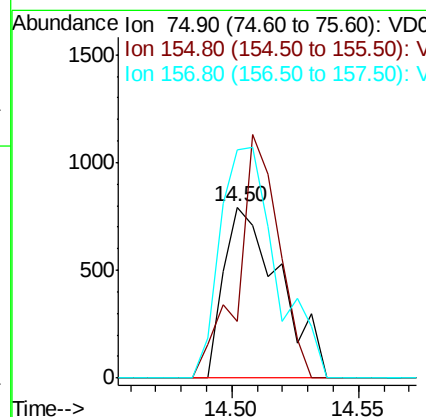
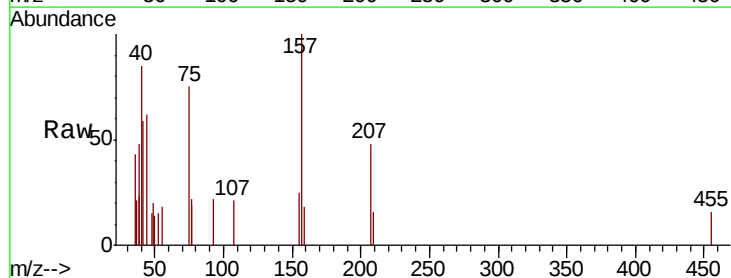
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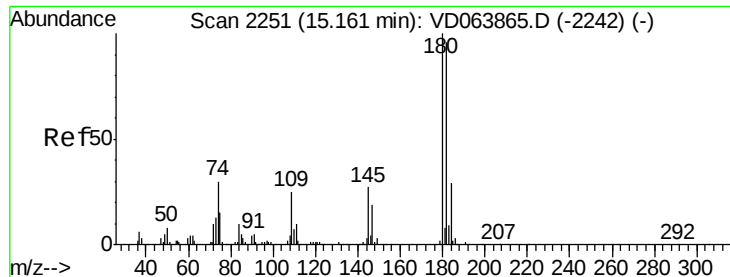
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.235 ug/l
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.2	43.9	131.6
157	136.1	56.0	167.9





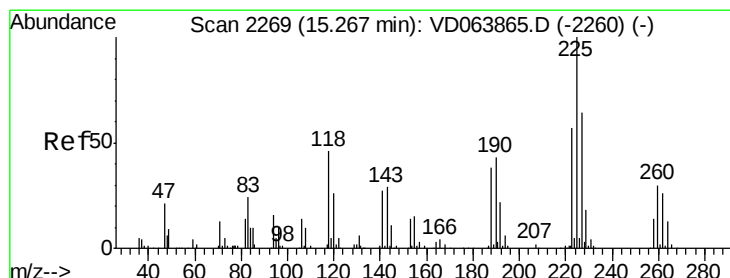
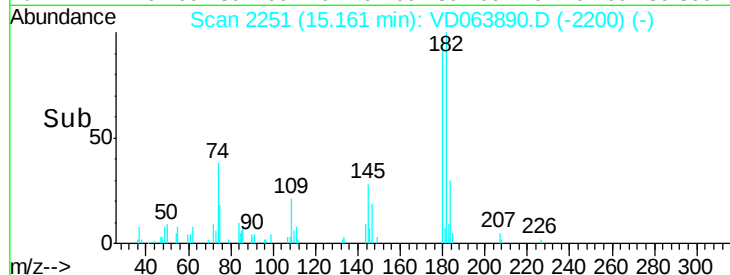
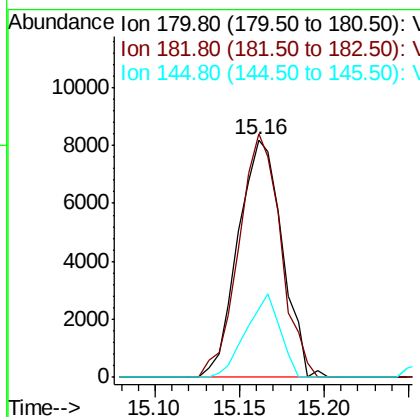
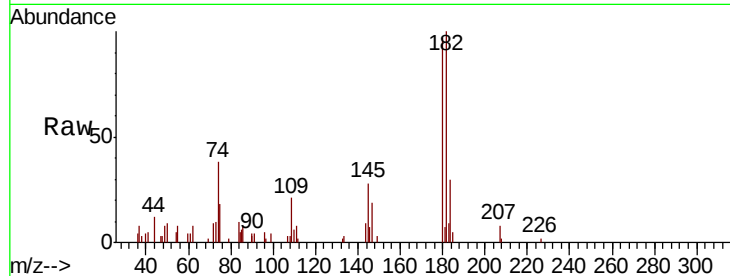
#93
 1,2,4-Trichlorobenzene
 Concen: 4.744 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	14861		
182	97.4	47.4	142.3	
145	27.1	13.9	41.7	

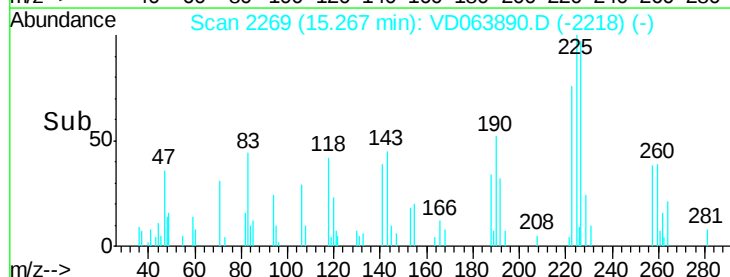
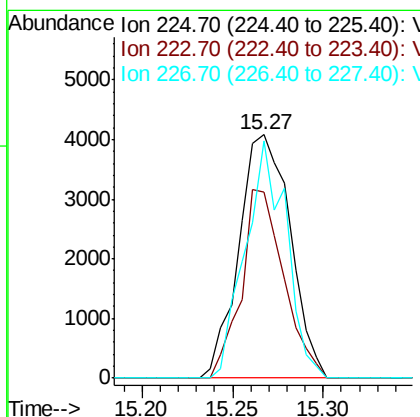
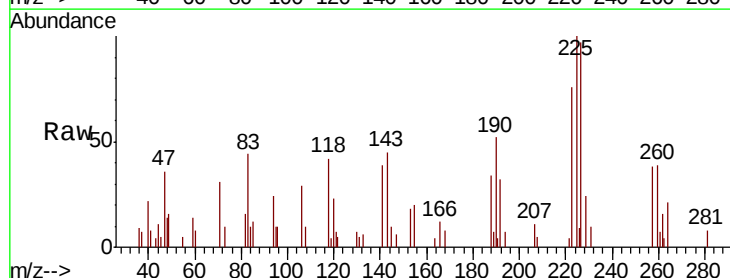
Manual Integrations
 APPROVED

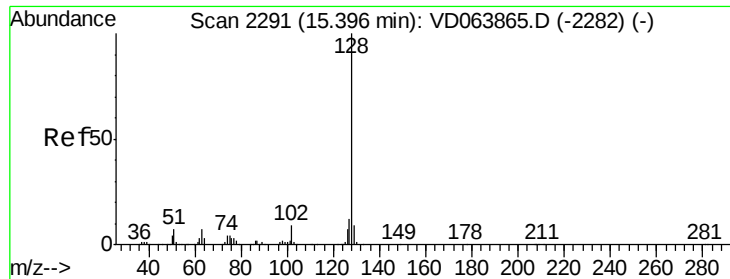
MMDadoda
 10/8/2019 3:11:42 PM



#94
 Hexachlorobutadiene
 Concen: 4.646 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.00 min
 Lab File: VD063890.D
 Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	8030		
223	64.0	29.5	88.6	
227	78.0	30.8	92.4	





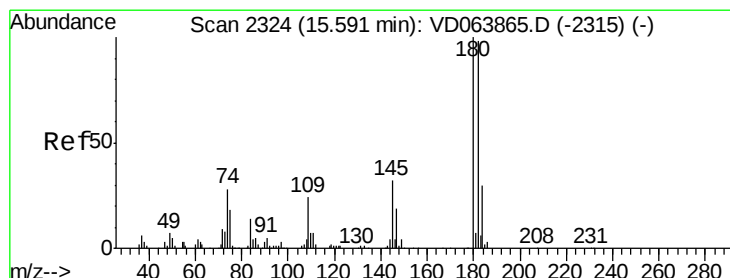
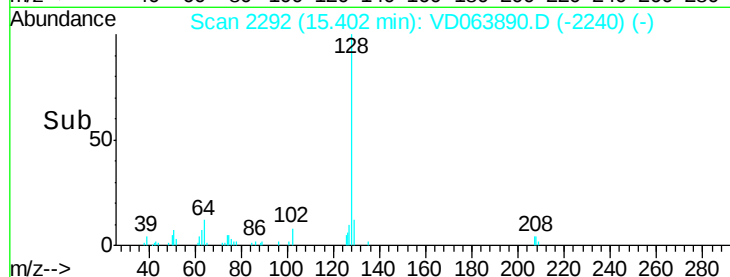
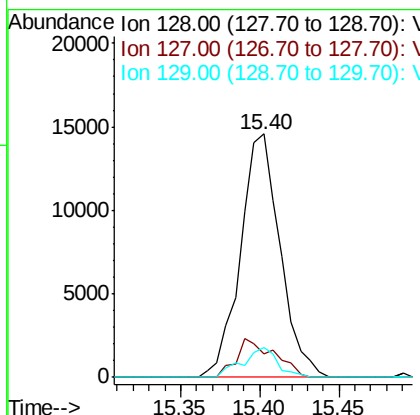
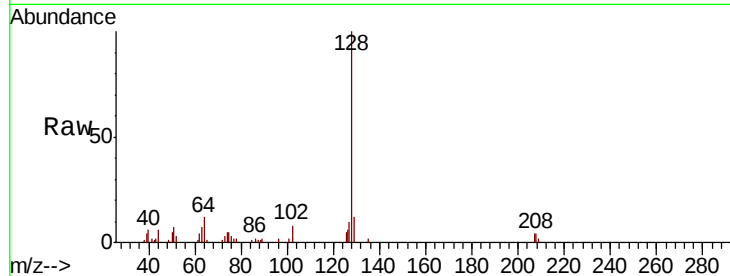
#95
Naphthalene
Concen: 4.799 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.6	16.0
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/8/2019 3:11:42 PM



#96
1,2,3-Trichlorobenzene
Concen: 5.207 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD063890.D
Acq: 04 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.9	47.0	141.0
145	32.3	15.3	45.9

