

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070720\
 Data File : VD065931.D
 Acq On : 07 Jul 2020 19:59
 Operator : VA/SY
 Sample : L3216-01 4PPBLOD
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/8/2020 12:05:17 PM

Quant Time: Jul 08 10:08:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 09:53:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	408226	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	641970	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	608009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	293414	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	171789	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	
35) Dibromofluoromethane	7.91	113	184270	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
50) Toluene-d8	10.34	98	669272	46.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.64%	
62) 4-Bromofluorobenzene	12.63	95	233410	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	17673	4.870	ug/l	97
3) Chloromethane	2.20	50	16338	4.541	ug/l	98
4) Vinyl Chloride	2.35	62	14455	4.376	ug/l	89
5) Bromomethane	2.77	94	10233	4.890	ug/l	81
6) Chloroethane	2.92	64	8530	4.320	ug/l	93
7) Trichlorofluoromethane	3.27	101	32602	4.605	ug/l	92
8) Diethyl Ether	3.71	74	9348	4.813	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.10	101	18967	4.479	ug/l	98
10) Methyl Iodide	4.30	142	15789	3.926	ug/l	98
11) Tert butyl alcohol	5.21	59	8063	31.078	ug/l #	79
12) 1,1-Dichloroethene	4.06	96	18879	4.772	ug/l	91
13) Acrolein	3.93	56	4298	20.136	ug/l	86
14) Allyl chloride	4.71	41	29513	4.402	ug/l	96
15) Acrylonitrile	5.43	53	18690	21.978	ug/l #	87
16) Acetone	4.16	43	16629	19.613	ug/l	90
17) Carbon Disulfide	4.41	76	56163	4.455	ug/l	96
18) Methyl Acetate	4.71	43	10779	5.423	ug/l	97
19) Methyl tert-butyl Ether	5.48	73	36630	4.373	ug/l	99
20) Methylene Chloride	4.96	84	59433	9.868	ug/l	93
21) trans-1,2-Dichloroethene	5.47	96	20321	4.565	ug/l	93
22) Diisopropyl ether	6.36	45	55641	4.416	ug/l	96
23) Vinyl Acetate	6.30	43	141843	19.723	ug/l	96
24) 1,1-Dichloroethane	6.26	63	33497	4.459	ug/l	98
25) 2-Butanone	7.21	43	25787	23.016	ug/l #	85
26) 2,2-Dichloropropane	7.21	77	28790	4.380	ug/l	95
27) cis-1,2-Dichloroethene	7.21	96	21646	4.526	ug/l	92
28) Bromochloromethane	7.54	49	12314	4.339	ug/l #	11
29) Tetrahydrofuran	7.56	42	14840	20.830	ug/l	96
30) Chloroform	7.71	83	34848	4.575	ug/l	96
31) Cyclohexane	7.99	56	37211	5.034	ug/l #	72
32) 1,1,1-Trichloroethane	7.90	97	32047	4.611	ug/l	96
36) 1,1-Dichloropropene	8.11	75	27477	4.334	ug/l	96
37) Ethyl Acetate	7.30	43	10431	3.926	ug/l #	71
38) Carbon Tetrachloride	8.09	117	28711	4.225	ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	32065	4.119	ug/l	95
40) Benzene	8.35	78	78783	4.498	ug/l	92
41) Methacrylonitrile	7.53	41	6716m	4.354	ug/l	
42) 1,2-Dichloroethane	8.43	62	21969	4.427	ug/l	94
43) Isopropyl Acetate	8.45	43	21652	4.379	ug/l	93
44) Trichloroethene	9.11	130	22365	4.346	ug/l	88
45) 1,2-Dichloropropane	9.38	63	19923	4.583	ug/l #	87
46) Dibromomethane	9.47	93	9510	4.202	ug/l	94
47) Bromodichloromethane	9.67	83	26062	4.293	ug/l #	98
48) Methyl methacrylate	9.46	41	10872	4.367	ug/l	98
49) 1,4-Dioxane	9.46	88	2481	92.253	ug/l #	90
51) 4-Methyl-2-Pentanone	10.23	43	48919	19.568	ug/l	99
52) Toluene	10.41	92	49861	4.474	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	23647	4.142	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	28920	4.192	ug/l	93
55) 1,1,2-Trichloroethane	10.80	97	14102	4.522	ug/l	97
56) Ethyl methacrylate	10.67	69	15356	4.032	ug/l	96
57) 1,3-Dichloropropane	10.95	76	23368	4.285	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.94	63	35135	19.047	ug/l	98
59) 2-Hexanone	10.99	43	35003	20.358	ug/l	95
60) Dibromochloromethane	11.14	129	18151	4.260	ug/l	98
61) 1,2-Dibromoethane	11.25	107	13430	4.319	ug/l	98
64) Tetrachloroethene	10.88	164	20386	4.611	ug/l	92
65) Chlorobenzene	11.67	112	54348	4.436	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	18722	4.085	ug/l	95
67) Ethyl Benzene	11.75	91	89265	4.101	ug/l	97
68) m/p-Xylenes	11.86	106	70247	8.494	ug/l	96
69) o-Xylene	12.18	106	31570	4.191	ug/l	95
70) Styrene	12.20	104	52449	4.033	ug/l	99
71) Bromoform	12.37	173	10722	4.135	ug/l #	97
73) Isopropylbenzene	12.48	105	83627	4.084	ug/l	100
74) N-amyl acetate	12.29	43	18813	4.094	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	14736	4.335	ug/l	96
76) 1,2,3-Trichloropropane	12.78	75	9643m	3.918	ug/l	
77) Bromobenzene	12.76	156	21741	4.377	ug/l	98
78) n-propylbenzene	12.82	91	100683	4.194	ug/l	98
79) 2-Chlorotoluene	12.91	91	59001	4.332	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	71052	4.242	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.53	75	4892	4.271	ug/l	88
82) 4-Chlorotoluene	13.01	91	63261	4.427	ug/l	98
83) tert-Butylbenzene	13.23	119	59067	4.139	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	65141	3.907	ug/l	98
85) sec-Butylbenzene	13.40	105	82981	4.103	ug/l	99
86) p-Isopropyltoluene	13.52	119	77006	4.163	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	40365	4.343	ug/l	94
88) 1,4-Dichlorobenzene	13.60	146	40249	4.341	ug/l	91
89) n-Butylbenzene	13.84	91	71539	4.119	ug/l	99
90) Hexachloroethane	14.11	117	15424	4.135	ug/l	96
91) 1,2-Dichlorobenzene	13.89	146	34946	4.302	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2491	4.382	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	24582	4.246	ug/l	97
94) Hexachlorobutadiene	15.27	225	15535	4.436	ug/l	97
95) Naphthalene	15.40	128	38742	3.990	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	21640	4.334	ug/l	98

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

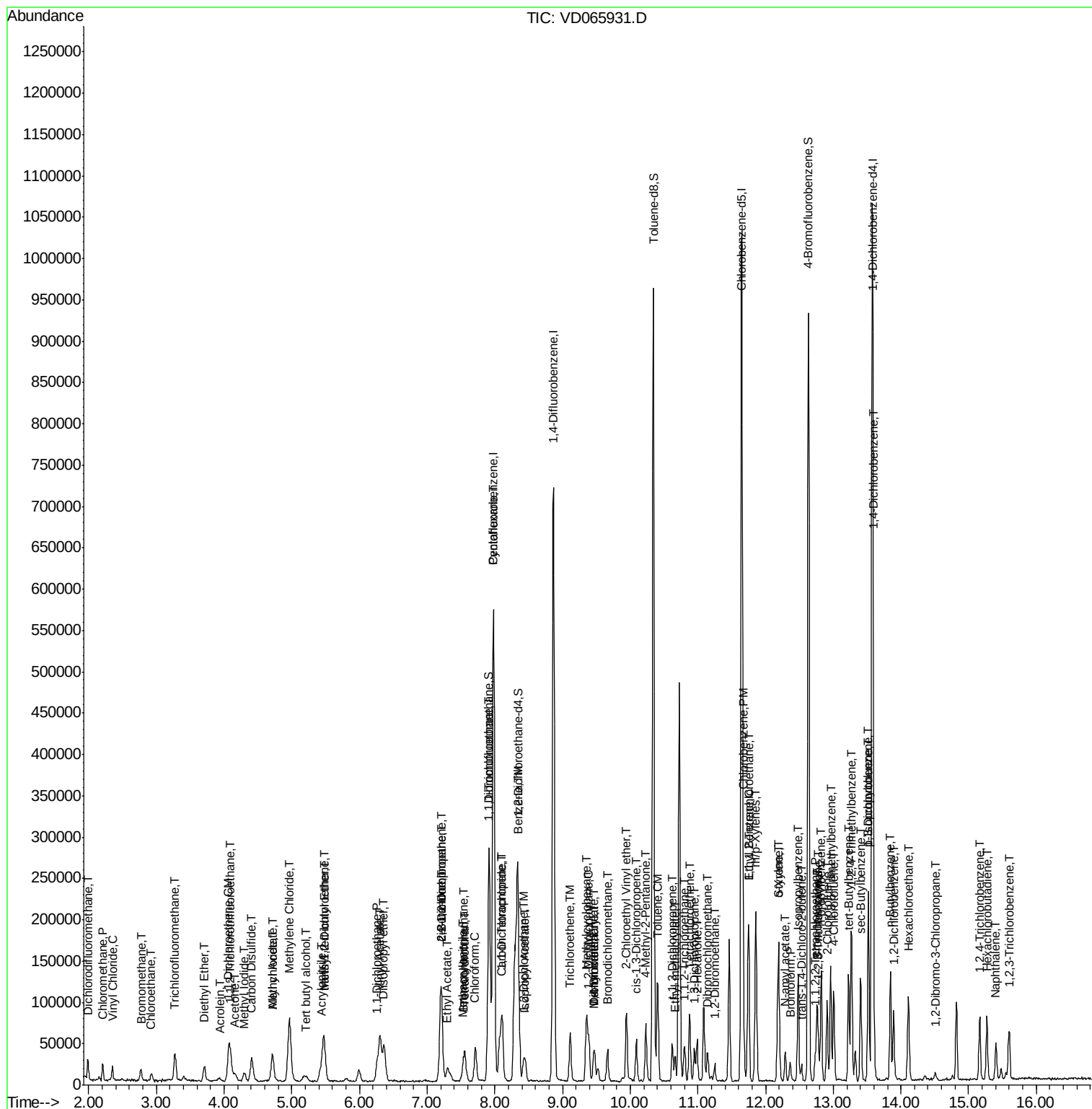
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070720\
Data File : VD065931.D
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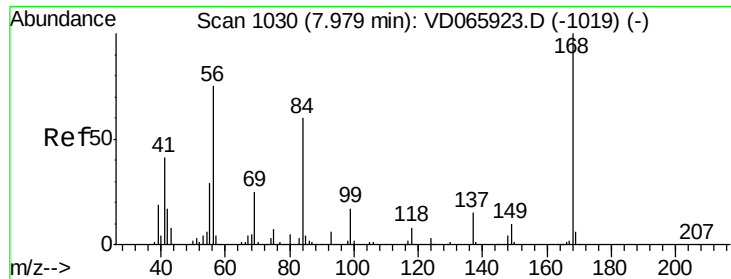
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:168 Resp: 408226

Ion Ratio Lower Upper

168 100

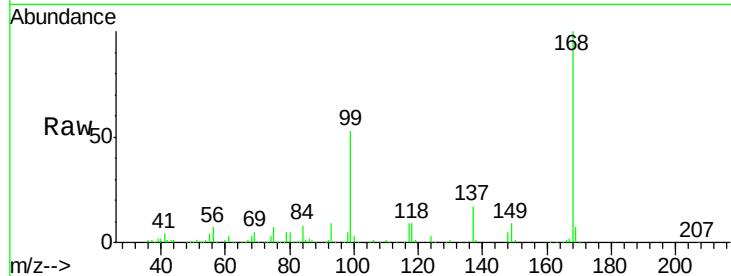
99 52.7 43.1 64.7

Manual Integrations

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7/8/2020 12:05:17 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

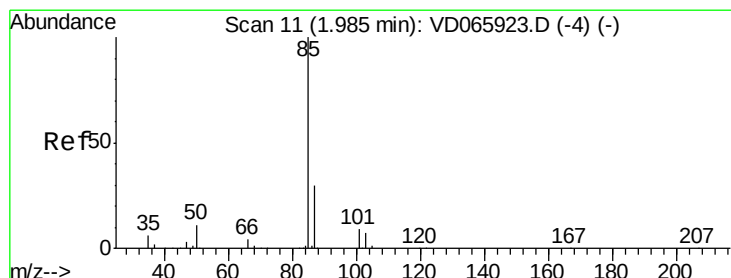
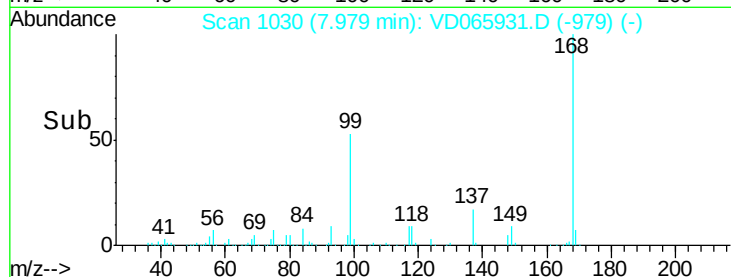
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 4.870 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065931.D

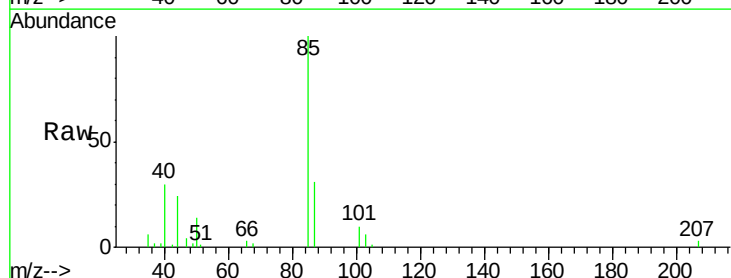
Acq: 07 Jul 2020 19:59

Tgt Ion: 85 Resp: 17673

Ion Ratio Lower Upper

85 100

87 31.3 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

15000

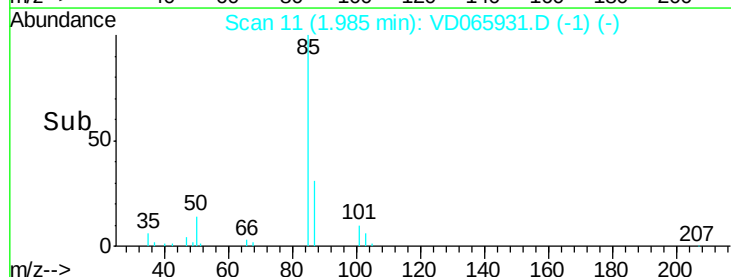
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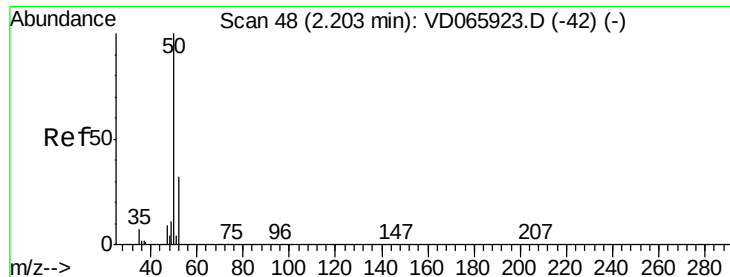
5000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 4.541 ug/l

RT: 2.20 min Scan# 48

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 50 Resp: 16338

Ion Ratio Lower Upper

50 100

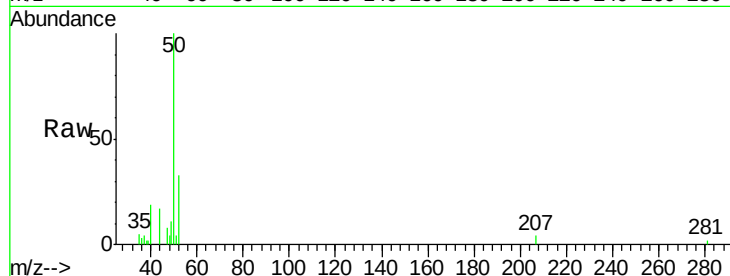
52 32.9 25.6 38.4

Manual Integrations

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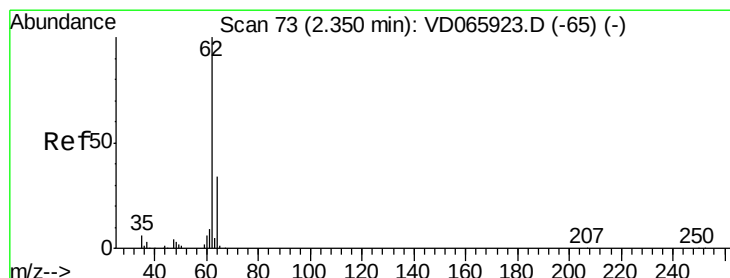
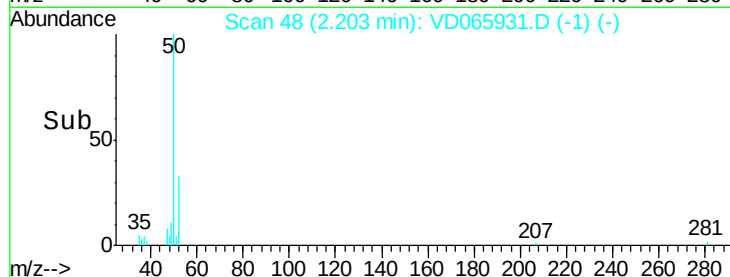
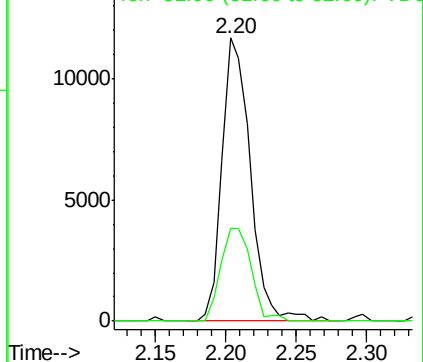
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 4.376 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065931.D

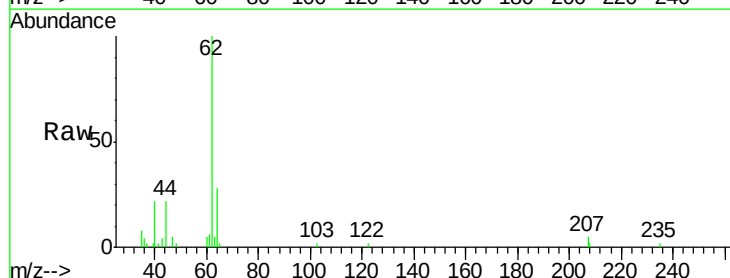
Acq: 07 Jul 2020 19:59

Tgt Ion: 62 Resp: 14455

Ion Ratio Lower Upper

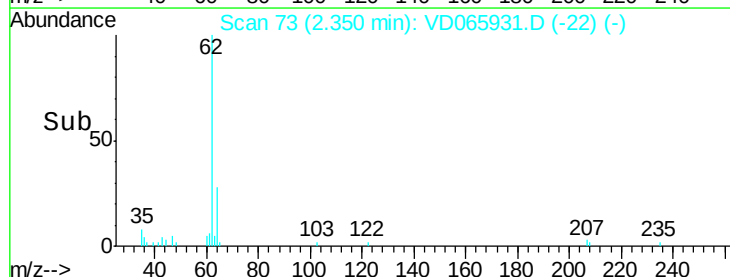
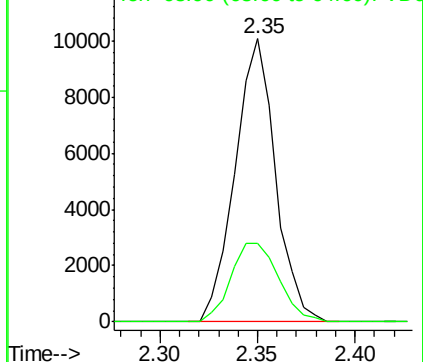
62 100

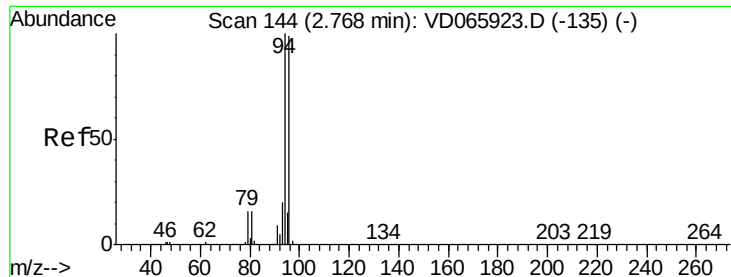
64 27.6 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 4.890 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065931.D

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Tot Ion: 94 Resp: 10233

Ion Ratio Lower Upper

94 100

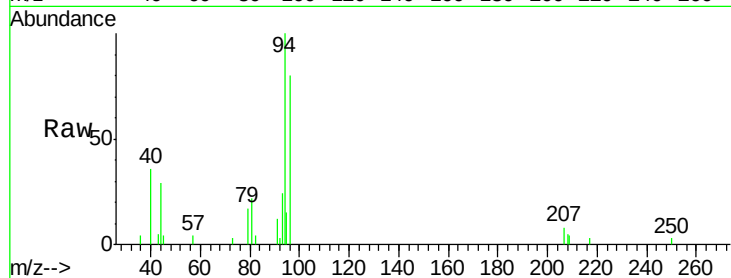
96 80.1 78.8 118.2

Manual Integrations

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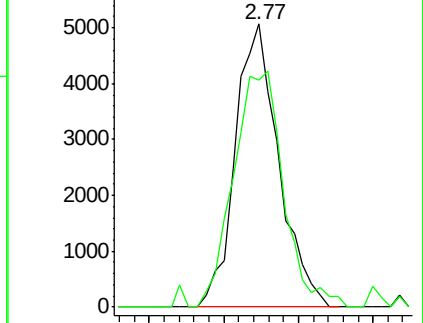
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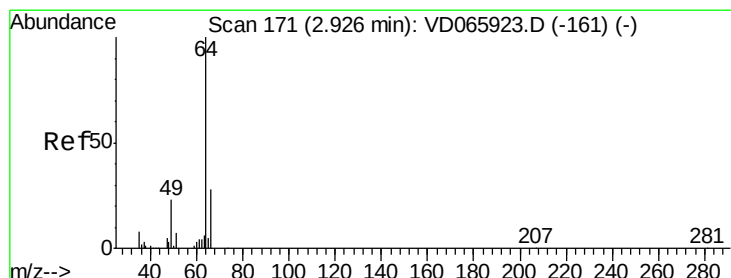
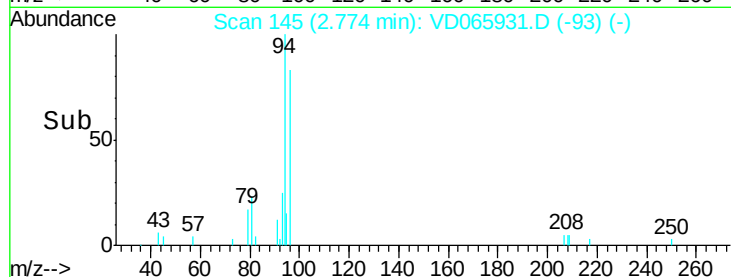


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#6

Chloroethane

Concen: 4.320 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065931.D

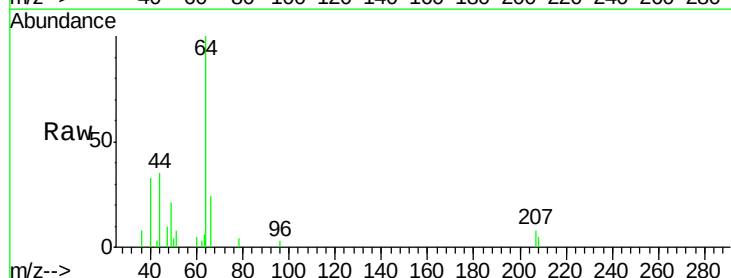
Acq: 07 Jul 2020 19:59

Tgt Ion: 64 Resp: 8530

Ion Ratio Lower Upper

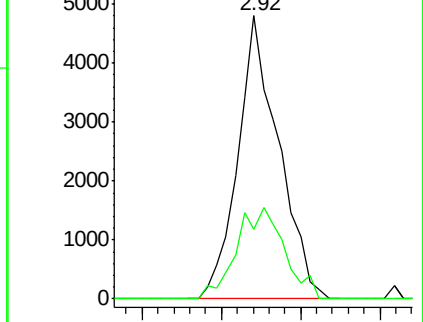
64 100

66 24.4 22.6 33.8

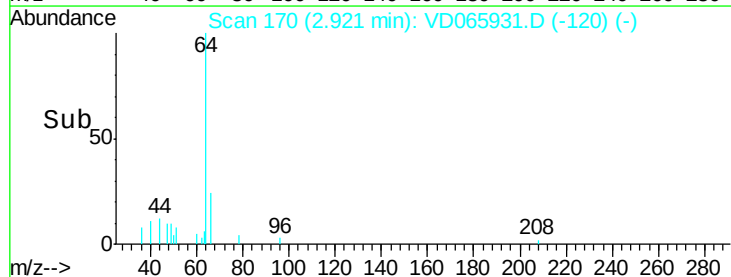


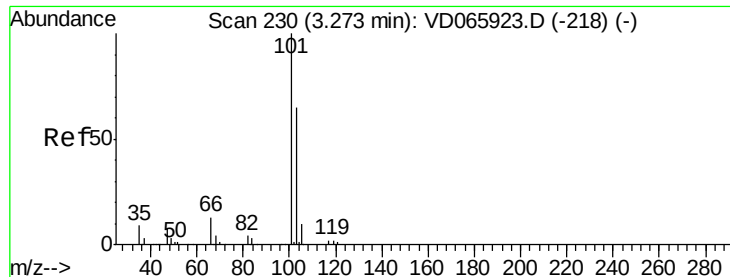
Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->





#7

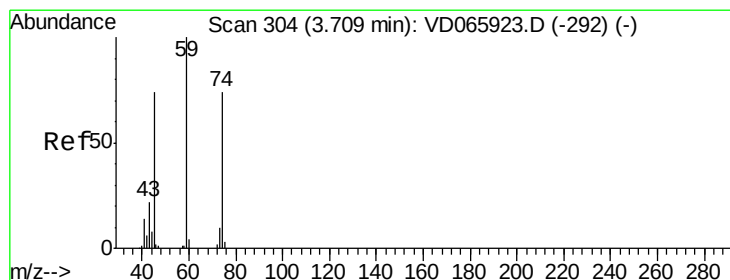
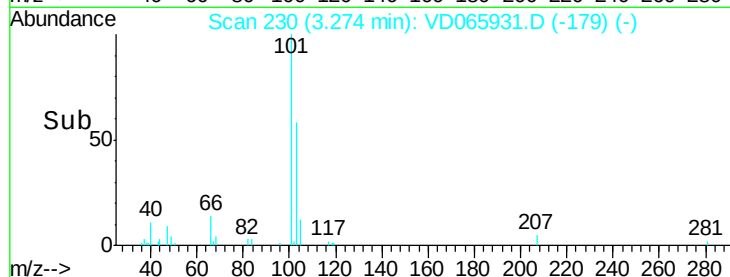
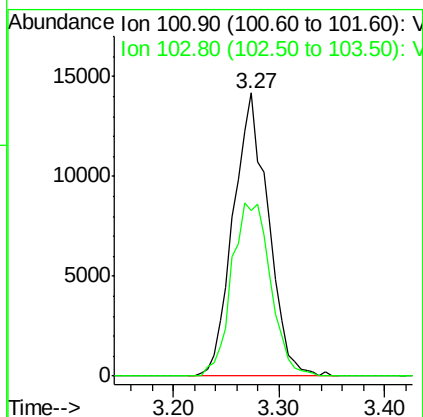
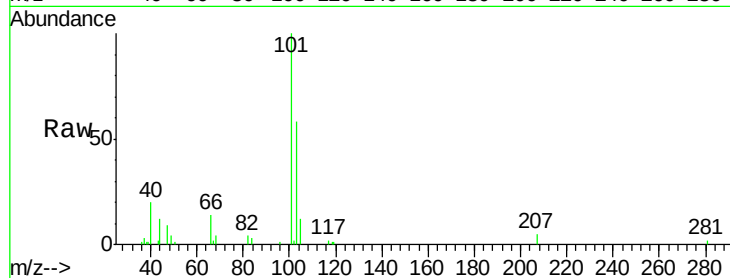
Trichlorofluoromethane
Concen: 4.605 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

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Tot Ion	Ratio	Lower	Upper
101	100		
103	58.3	51.7	77.5

Manual Integrations
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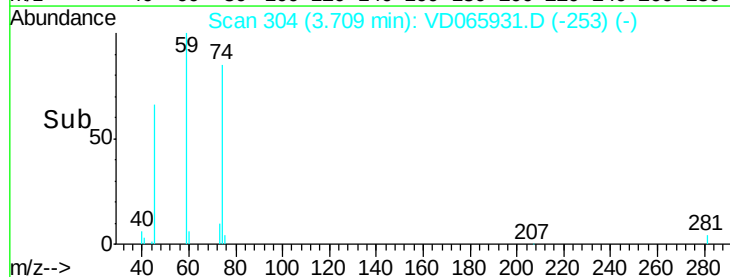
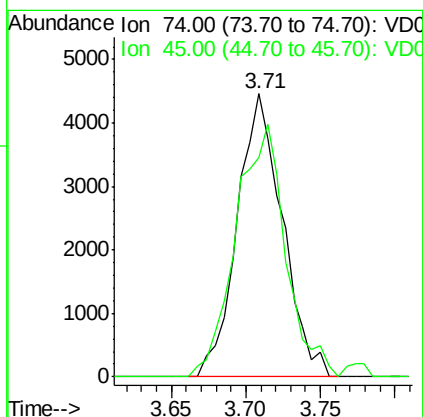
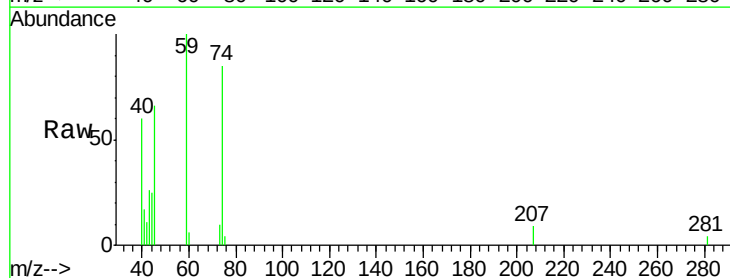
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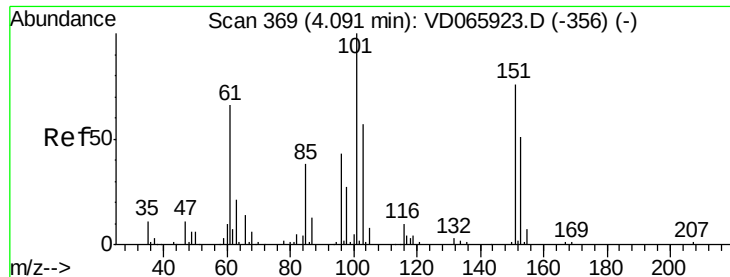


#8

Diethyl Ether
Concen: 4.813 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.1	51.1	153.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.479 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

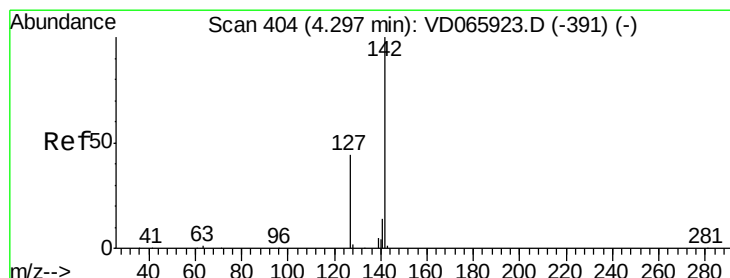
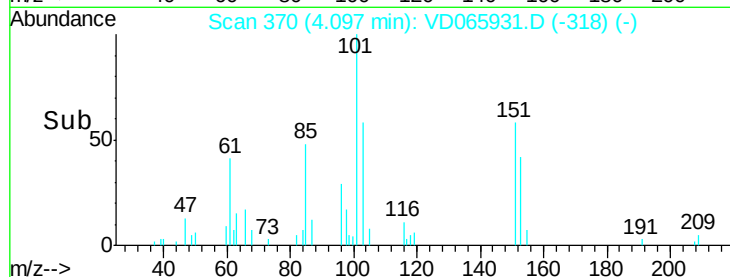
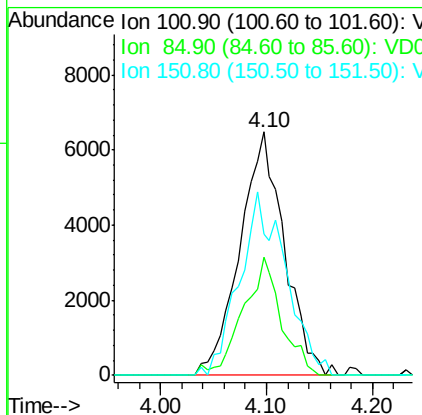
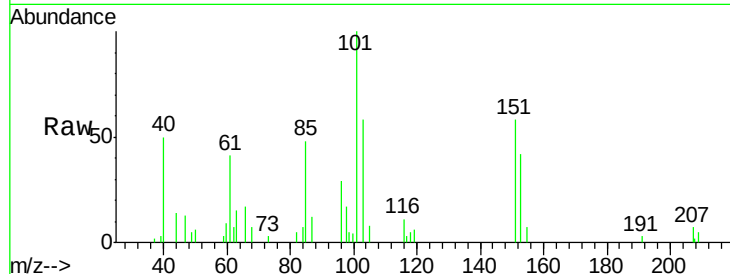
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	101	Resp:	18967
Ion Ratio	Lower	Upper	
101	100		
85	41.9	33.8	50.8
151	77.8	64.1	96.1

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#10

Methyl Iodide

Concen: 3.926 ug/l

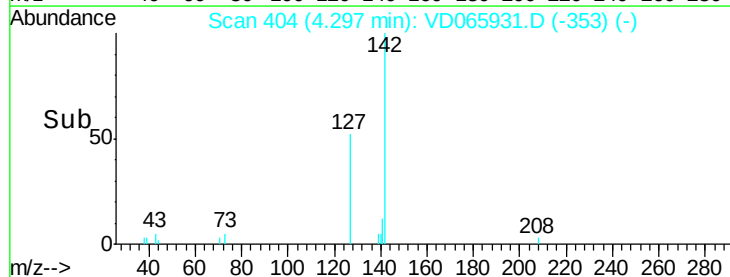
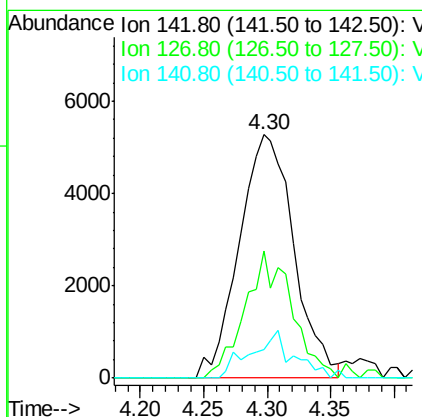
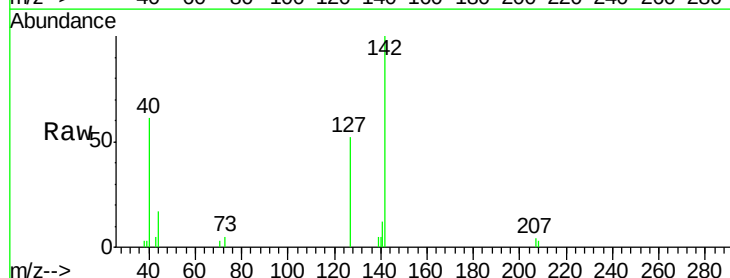
RT: 4.30 min Scan# 404

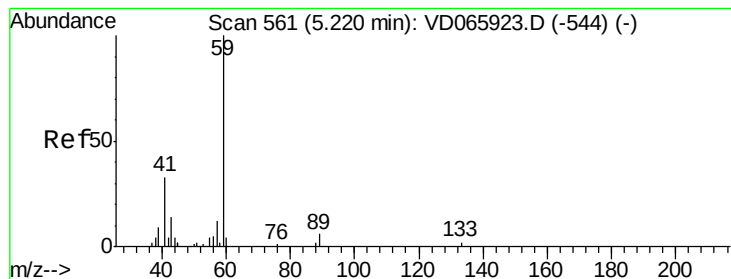
Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	142	Resp:	15789
Ion Ratio	Lower	Upper	
142	100		
127	44.8	34.6	51.8
141	15.3	11.6	17.4





#11

Tert butyl alcohol

Concen: 31.078 ug/l

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 59 Resp: 8063

Ion Ratio Lower Upper

59 100

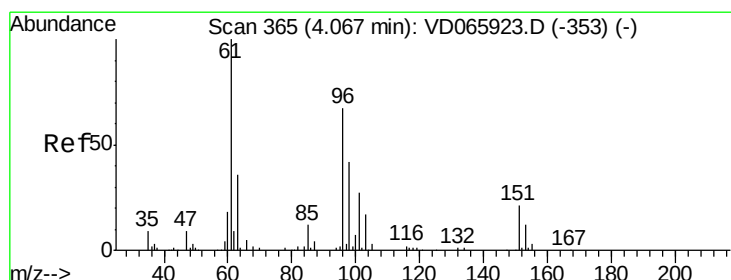
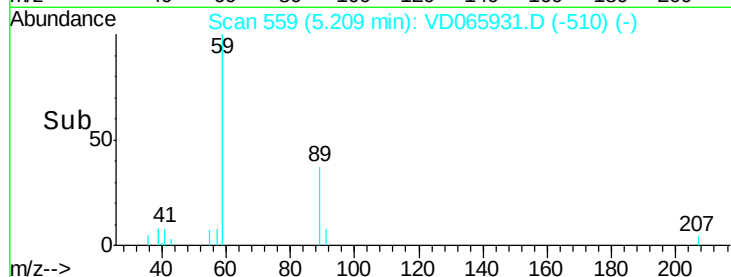
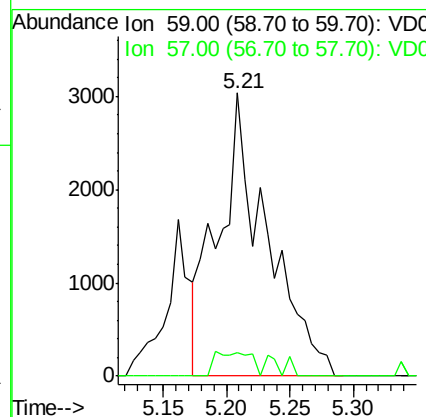
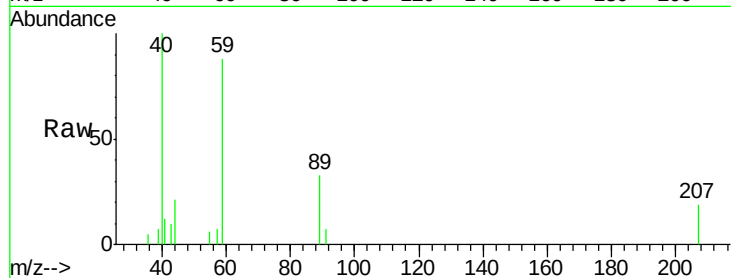
57 3.1 8.7 13.1#

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 4.772 ug/l

RT: 4.06 min Scan# 364

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

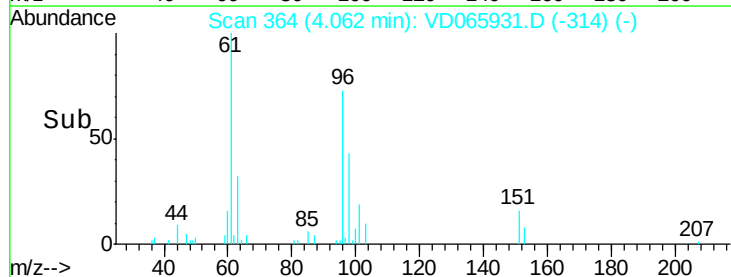
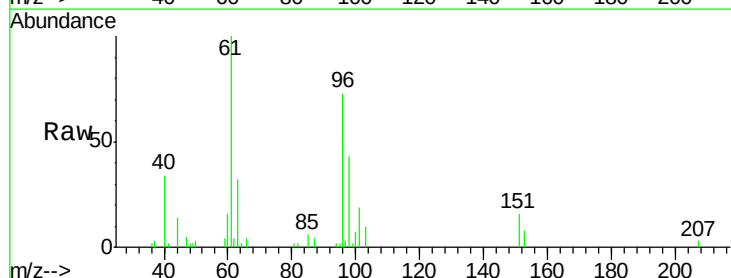
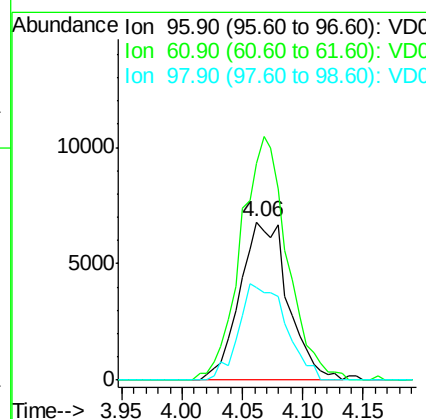
Tgt Ion: 96 Resp: 18879

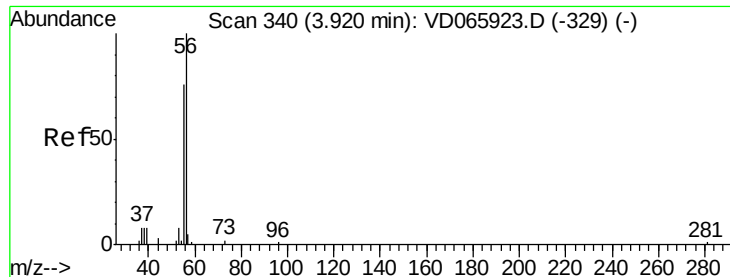
Ion Ratio Lower Upper

96 100

61 136.9 120.2 180.2

98 58.7 50.6 76.0





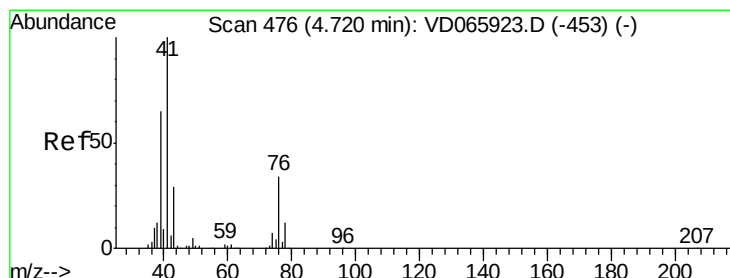
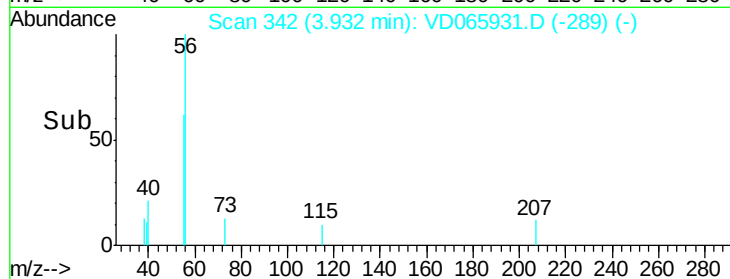
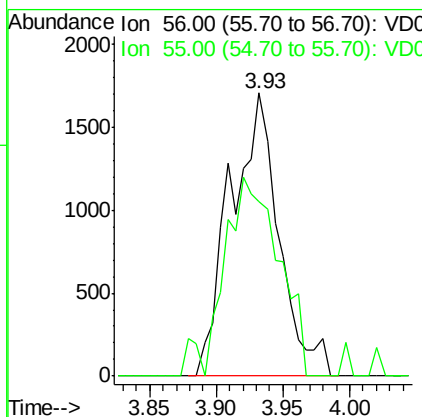
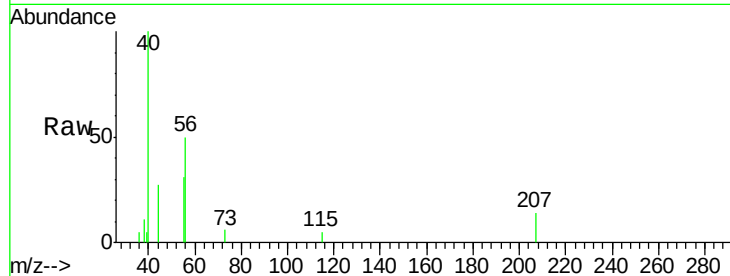
#13
Acrolein
Concen: 20.136 ug/l
RT: 3.93 min Scan# 342
Delta R.T. 0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
56	100		
55	80.4	55.0	82.6

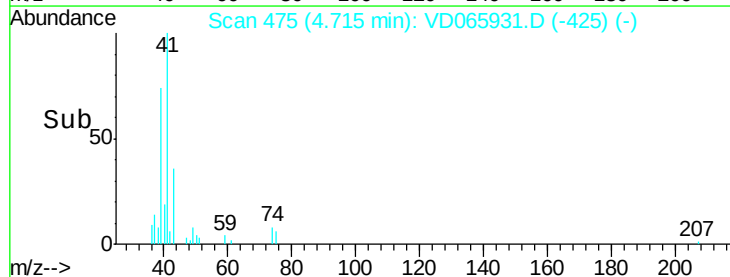
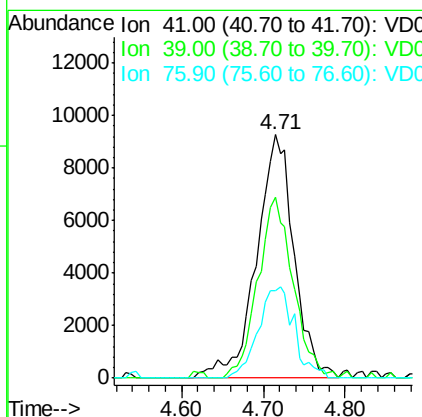
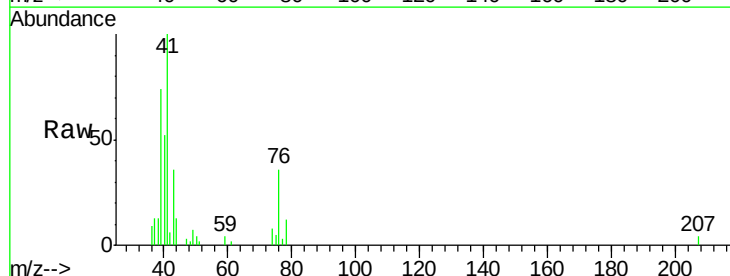
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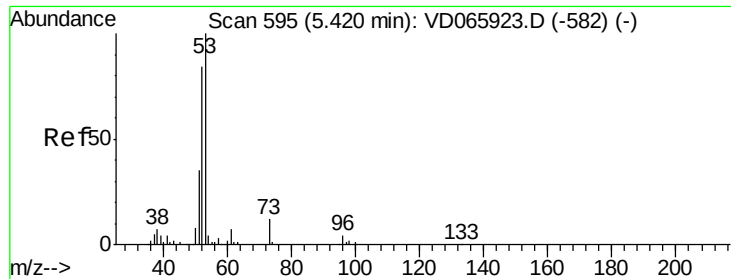
MMDadoda
7/8/2020 12:05:17 PM



#14
Allyl chloride
Concen: 4.402 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
41	100		
39	69.8	52.2	78.4
76	35.8	28.1	42.1





#15

Acrylonitrile

Concen: 21.978 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

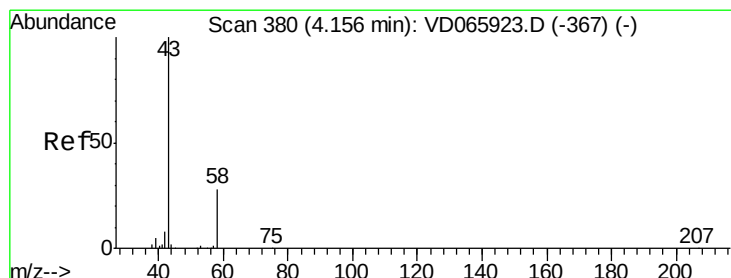
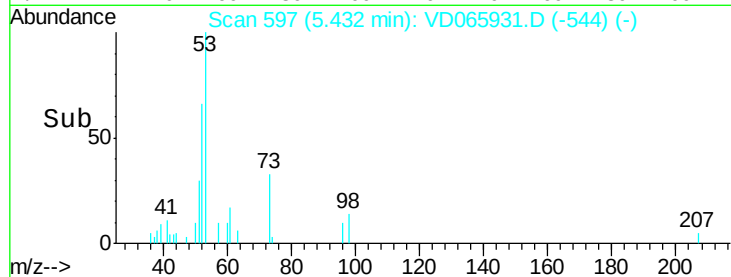
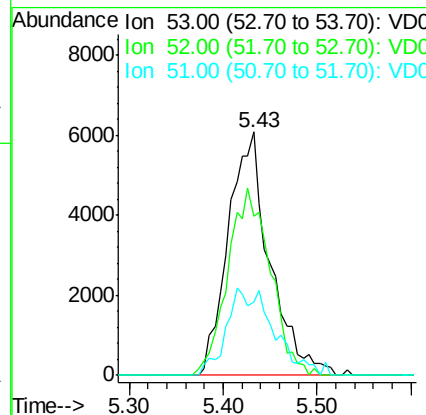
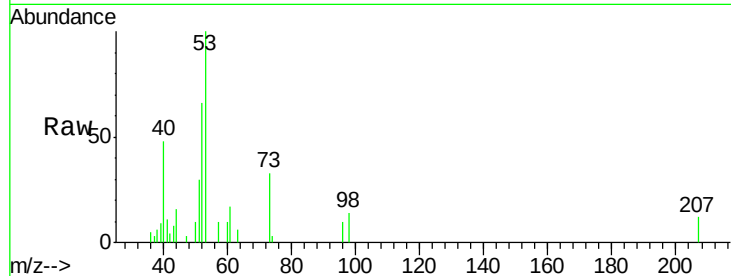
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	53	Resp:	18690
Ion Ratio	Lower	Upper	
53	100		
52	78.7	66.3	99.5
51	19.3	29.8	44.8#

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#16

Acetone

Concen: 19.613 ug/l

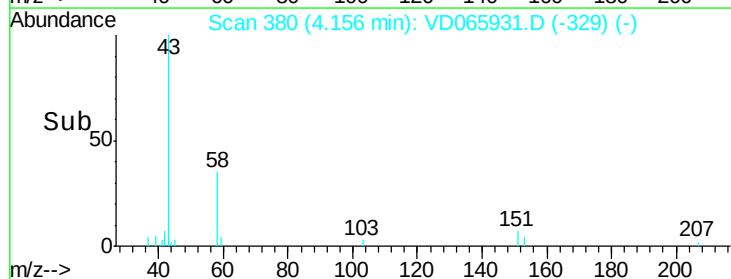
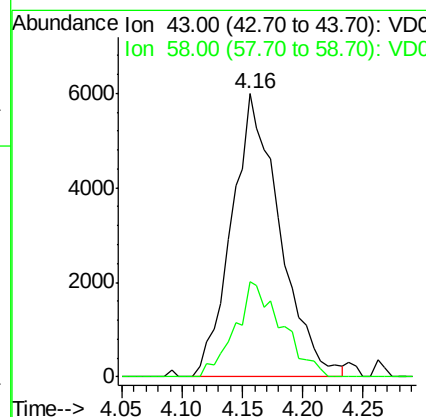
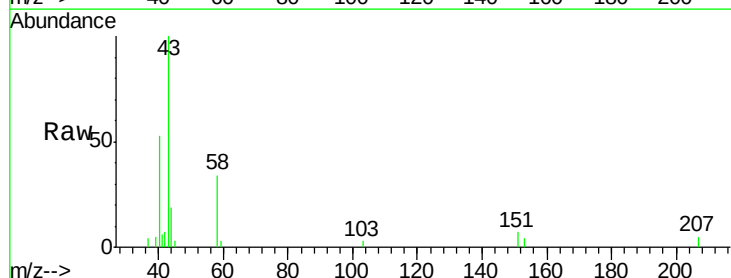
RT: 4.16 min Scan# 380

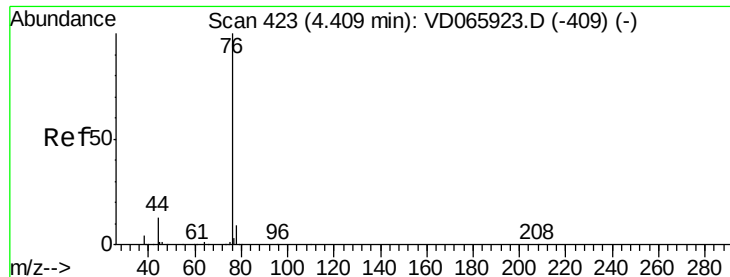
Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	43	Resp:	16629
Ion Ratio	Lower	Upper	
43	100		
58	33.7	22.7	34.1





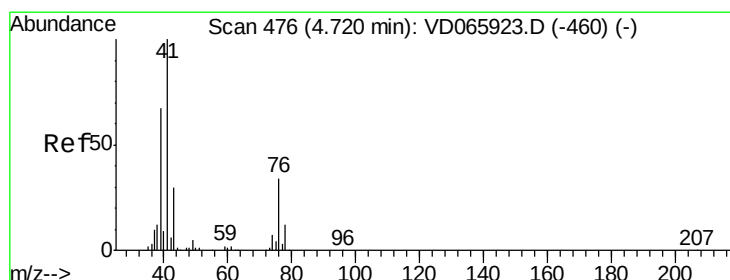
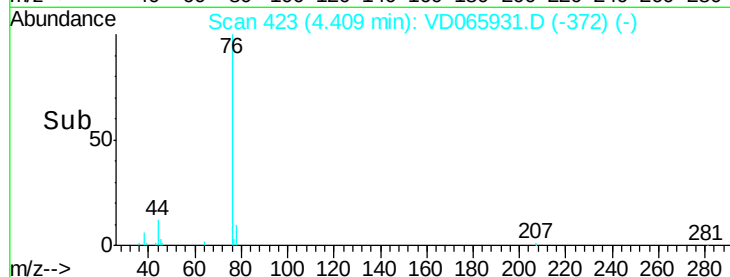
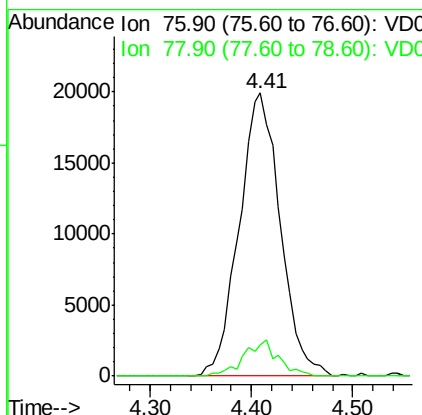
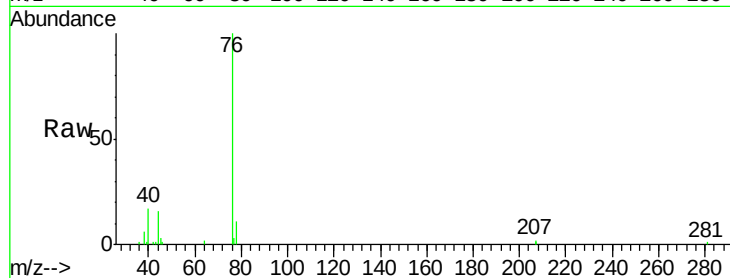
#17
Carbon Disulfide
Concen: 4.455 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.8	7.5	11.3

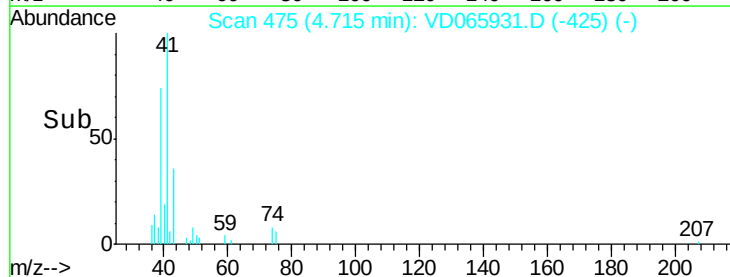
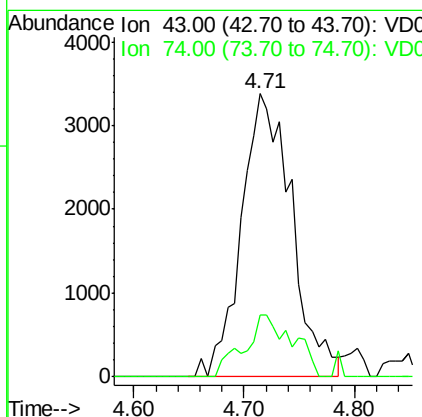
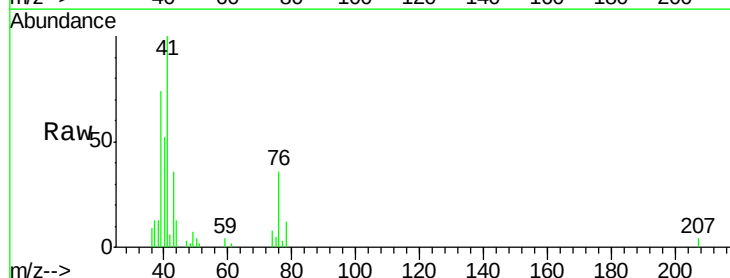
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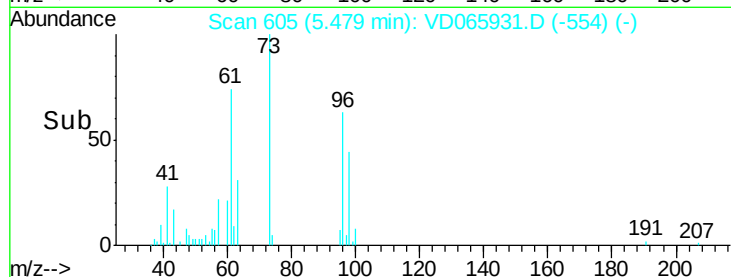
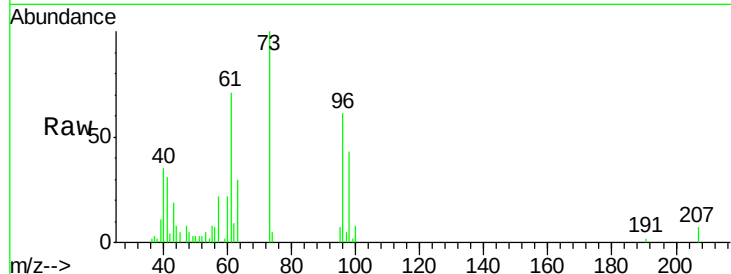
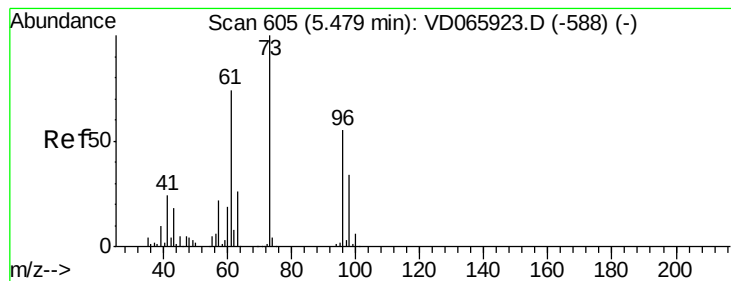
MMDadoda
7/8/2020 12:05:17 PM



#18
Methyl Acetate
Concen: 5.423 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.8	26.8





#19

Methyl tert-butyl Ether

Concen: 4.373 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tot Ion: 73 Resp: 36630

Ion Ratio Lower Upper

73 100

57 21.7 17.7 26.5

Instrument :

MSVOA_D

ClientSampleId :

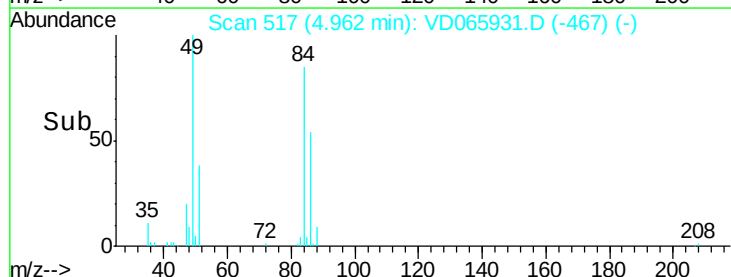
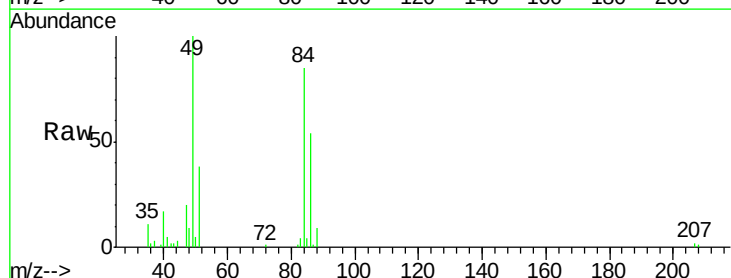
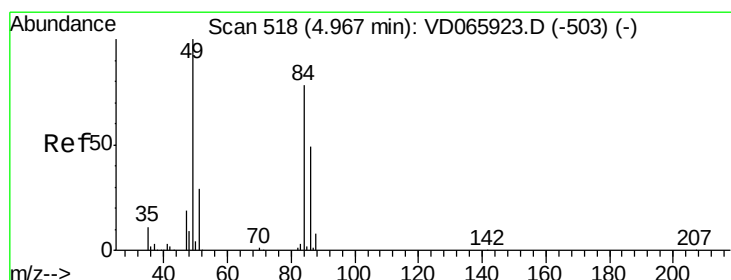
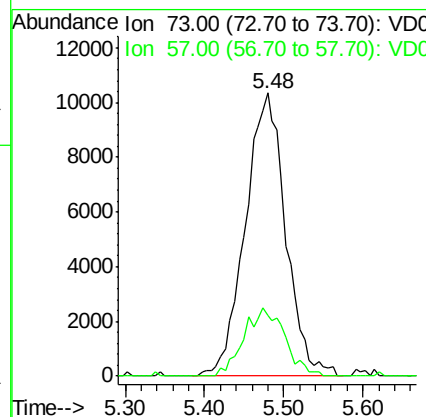
LOD-MDL-SOIL-01-QT3-2020

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#20

Methylene Chloride

Concen: 9.868 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion: 84 Resp: 59433

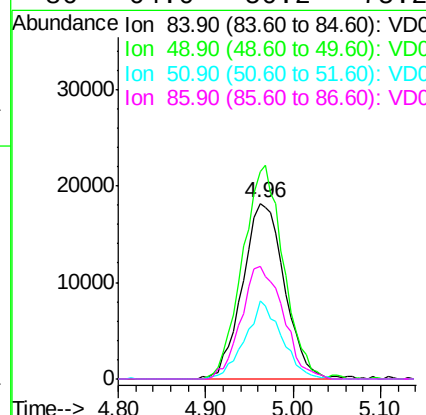
Ion Ratio Lower Upper

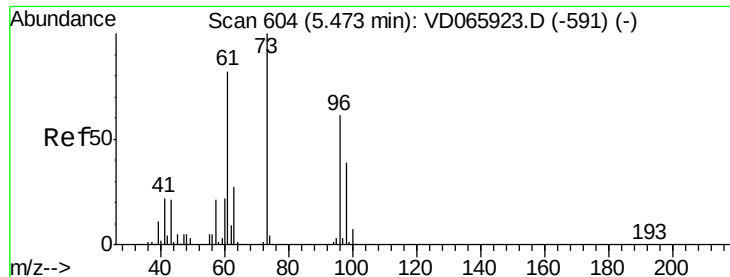
84 100

49 118.1 102.2 153.2

51 44.4 29.8 44.6

86 64.0 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 4.565 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

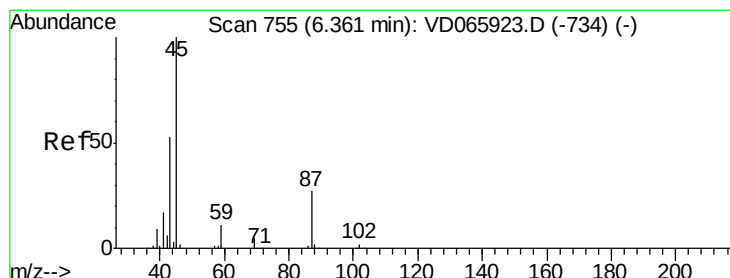
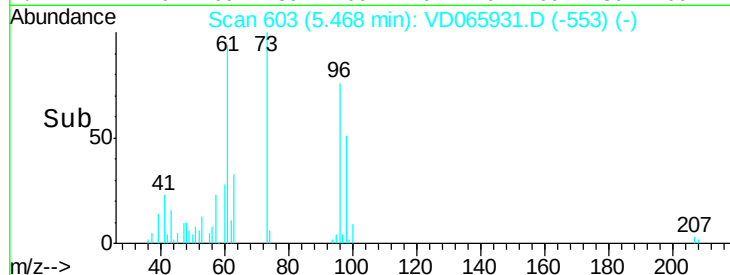
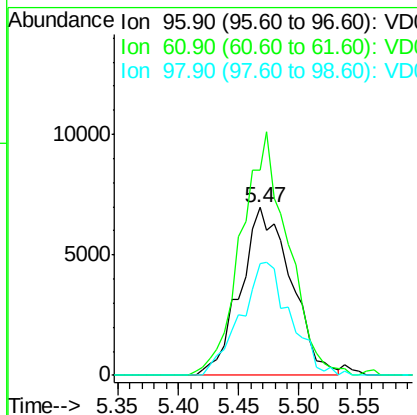
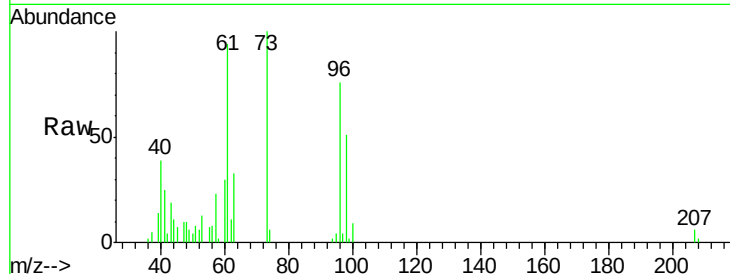
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	96	Resp:	20321
Ion	Ratio	Lower	Upper
96	100		
61	122.6	106.6	160.0
98	66.7	51.0	76.6

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#22

Diisopropyl ether

Concen: 4.416 ug/l

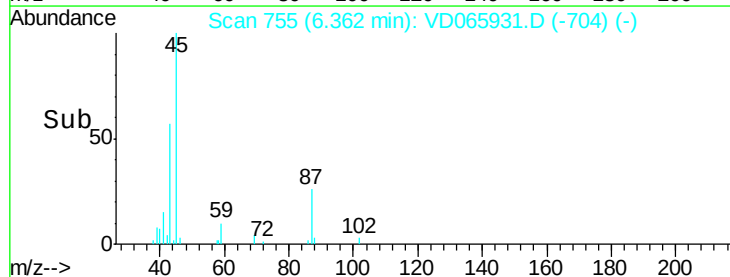
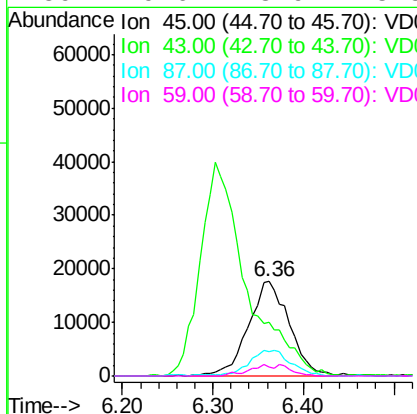
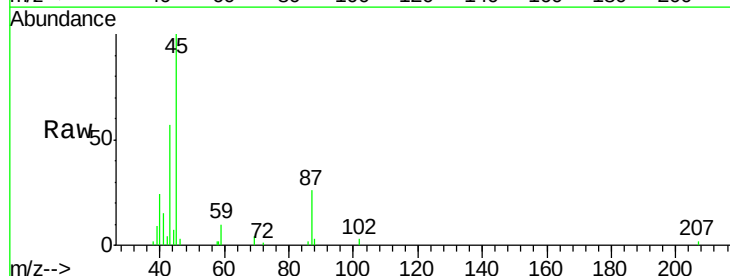
RT: 6.36 min Scan# 755

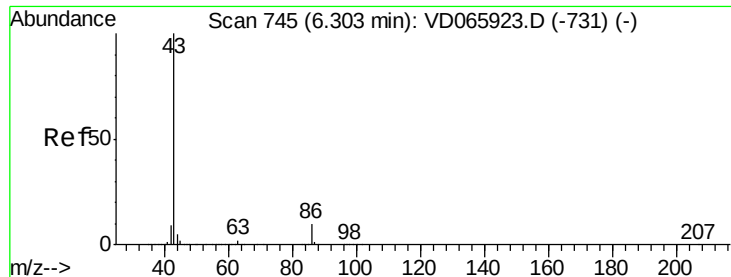
Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	45	Resp:	55641
Ion	Ratio	Lower	Upper
45	100		
43	55.5	42.5	63.7
87	25.5	22.2	33.2
59	9.6	8.9	13.3





#23

Vinyl Acetate

Concen: 19.723 ug/l

RT: 6.30 min Scan# 745

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 141843

Ion Ratio Lower Upper

43 100

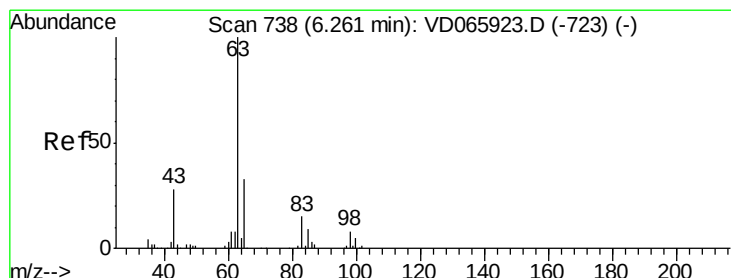
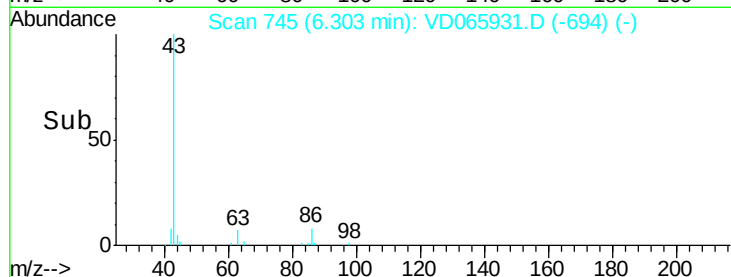
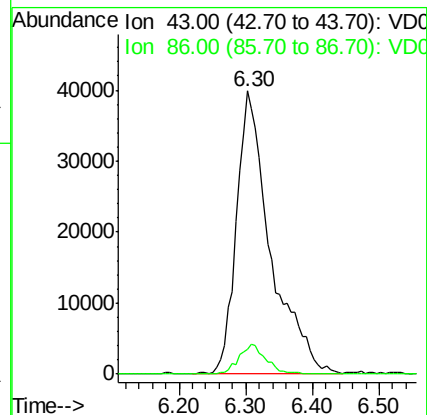
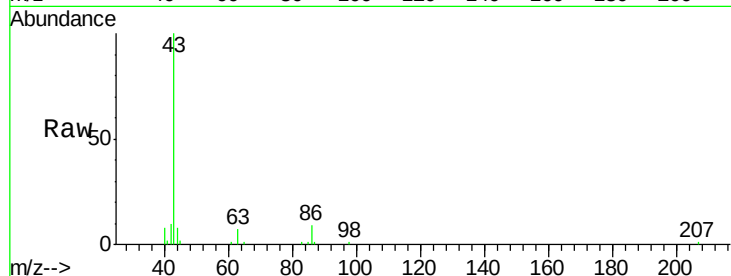
86 8.7 8.1 12.1

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#24

1,1-Dichloroethane

Concen: 4.459 ug/l

RT: 6.26 min Scan# 737

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

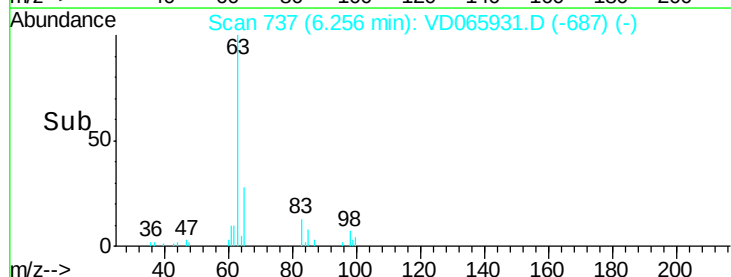
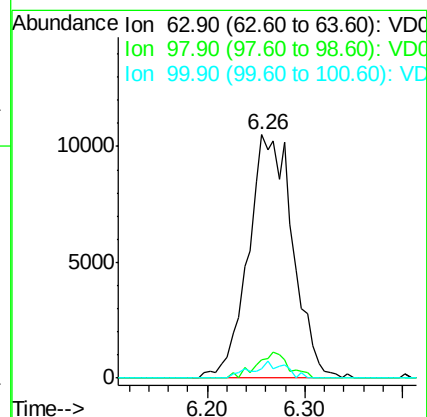
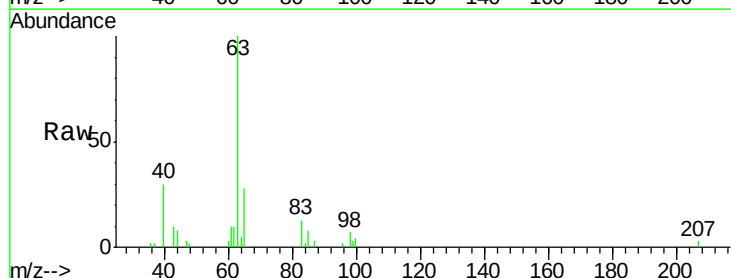
Tgt Ion: 63 Resp: 33497

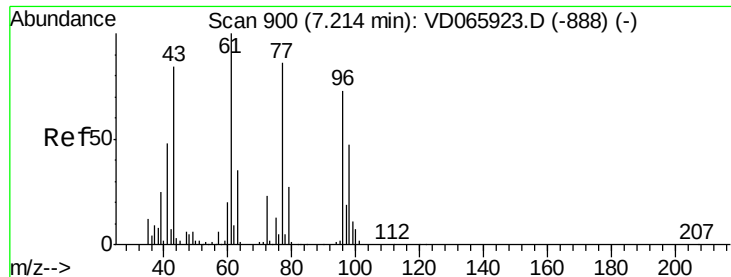
Ion Ratio Lower Upper

63 100

98 7.4 3.8 11.4

100 4.0 2.5 7.5





#25

2-Butanone

Concen: 23.016 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 25787

Ion Ratio Lower Upper

43 100

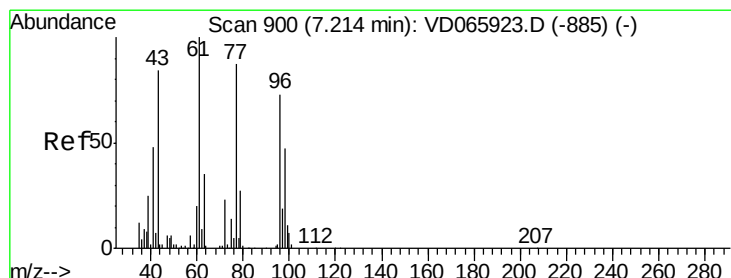
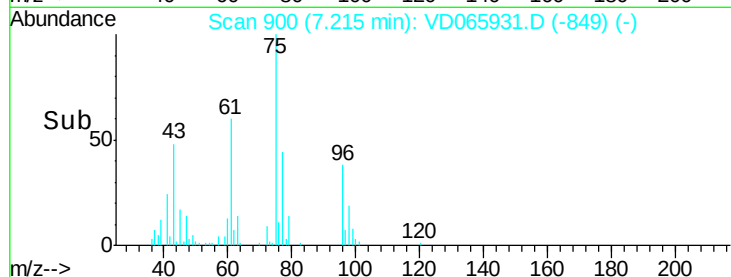
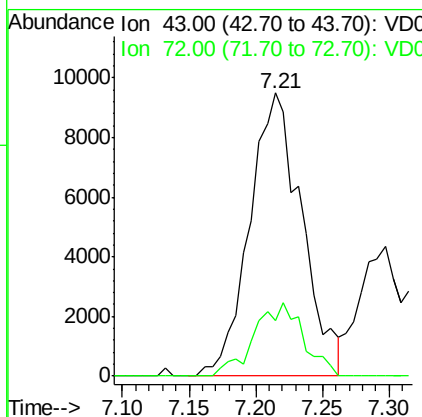
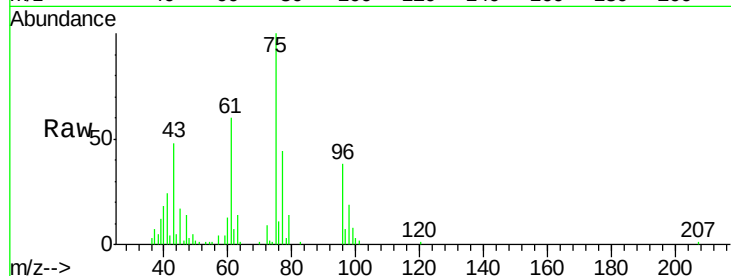
72 19.8 22.1 33.1#

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.380 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065931.D

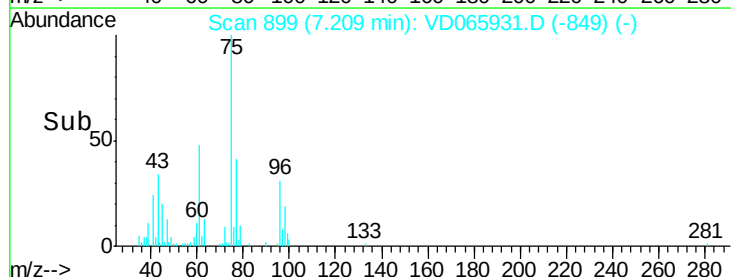
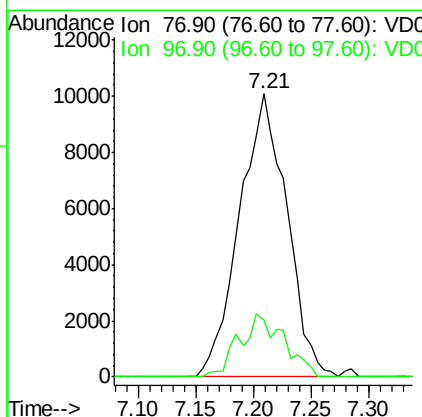
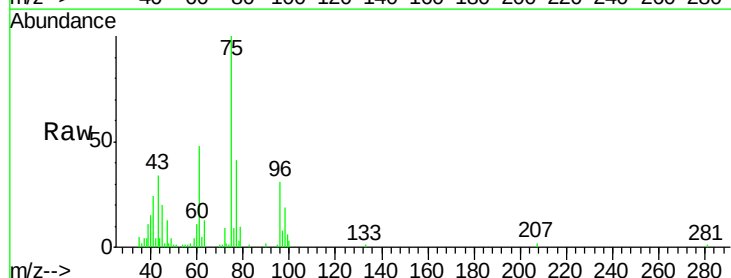
Acq: 07 Jul 2020 19:59

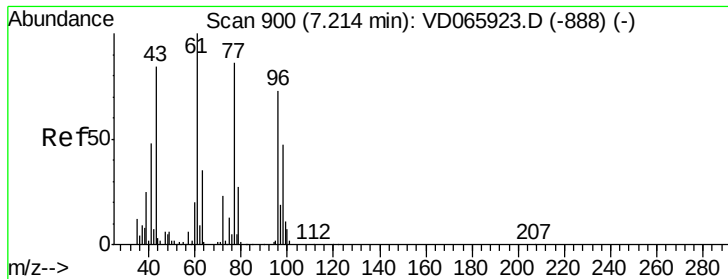
Tgt Ion: 77 Resp: 28790

Ion Ratio Lower Upper

77 100

97 20.9 11.6 34.8





#27

cis-1,2-Dichloroethene

Concen: 4.526 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

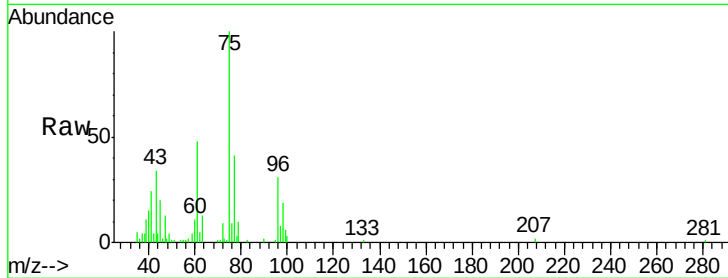
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

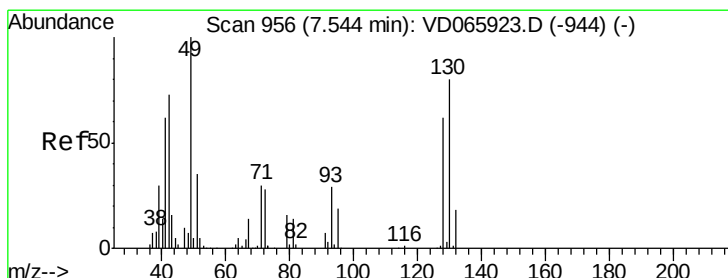
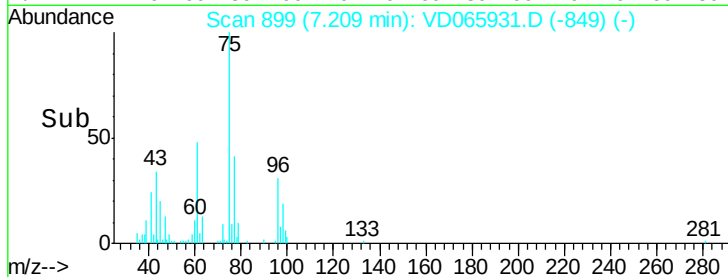
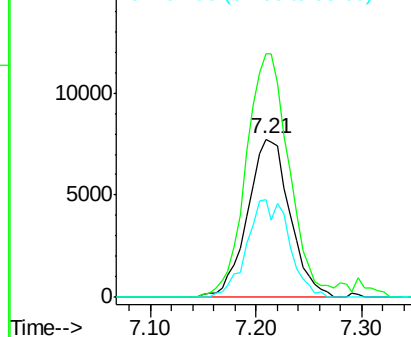
Tot Ion:	96	Resp:	21646
Ion	Ratio	Lower	Upper
96	100		
61	155.5	0.0	286.6
98	61.0	0.0	128.2

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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#28

Bromochloromethane

Concen: 4.339 ug/l

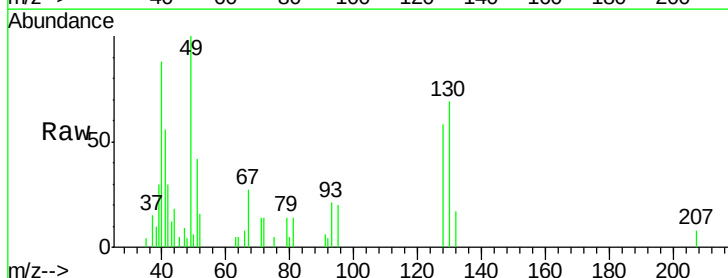
RT: 7.54 min Scan# 955

Delta R.T. -0.01 min

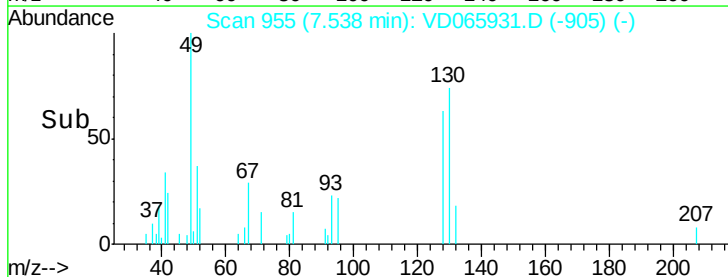
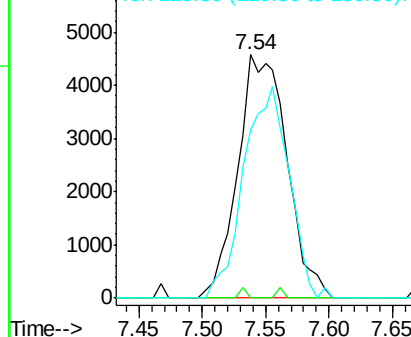
Lab File: VD065931.D

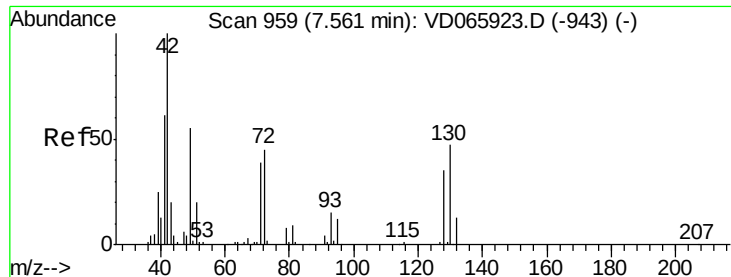
Acq: 07 Jul 2020 19:59

Tgt Ion:	49	Resp:	12314
Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	4.8
130	0.0	65.8	98.8#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





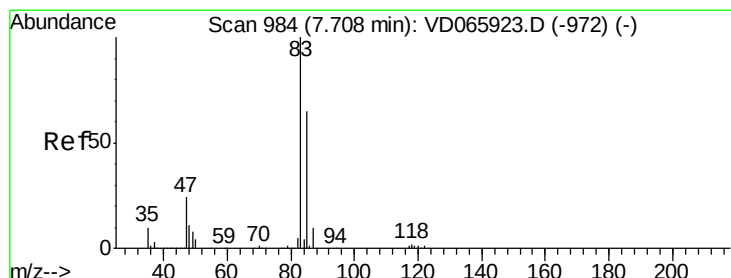
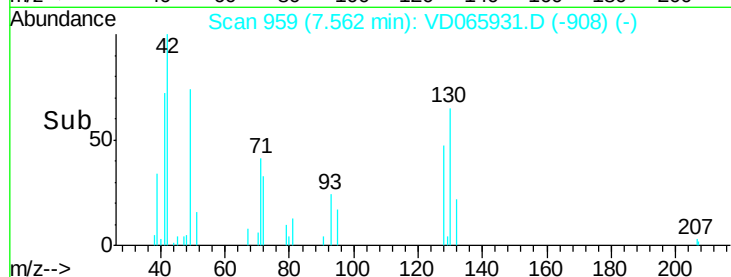
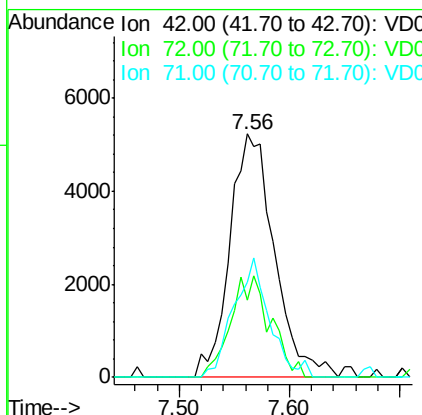
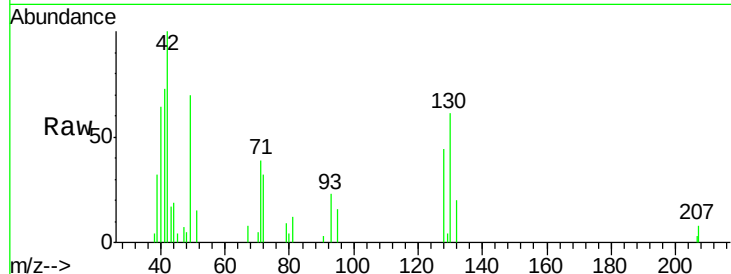
#29
Tetrahydrofuran
Concen: 20.830 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.3	32.8	49.2
71	39.3	31.0	46.4

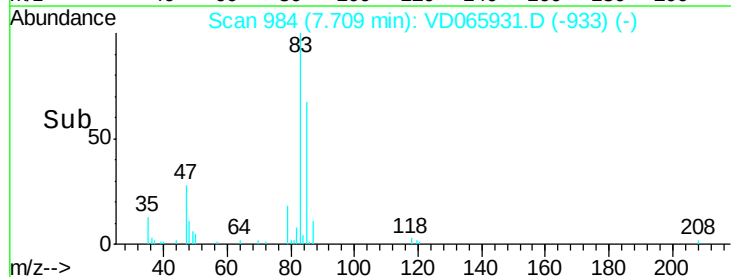
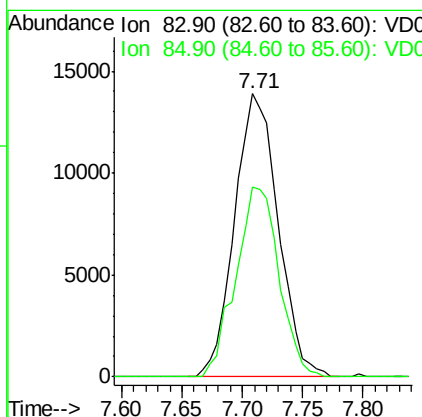
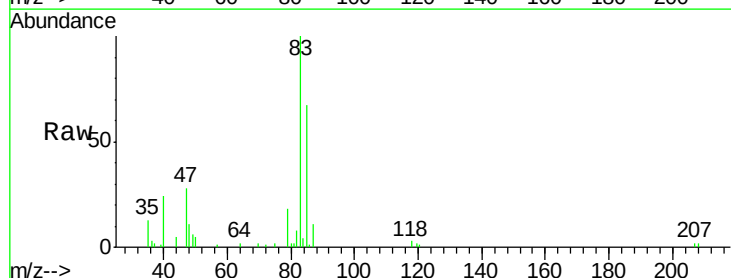
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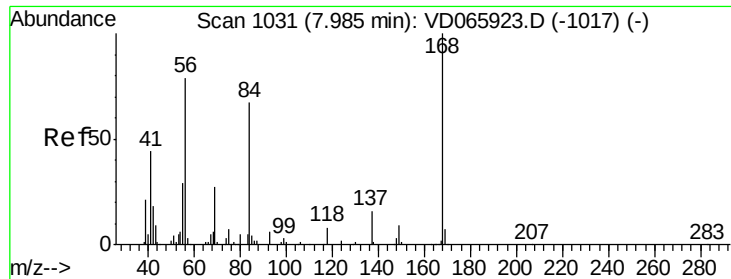
MMDadoda
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#30
Chloroform
Concen: 4.575 ug/l
RT: 7.71 min Scan# 984
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.6	77.4





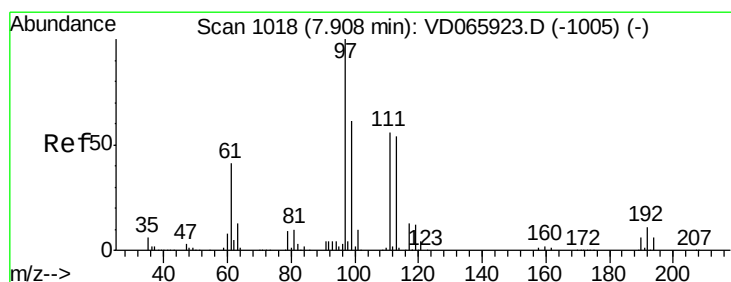
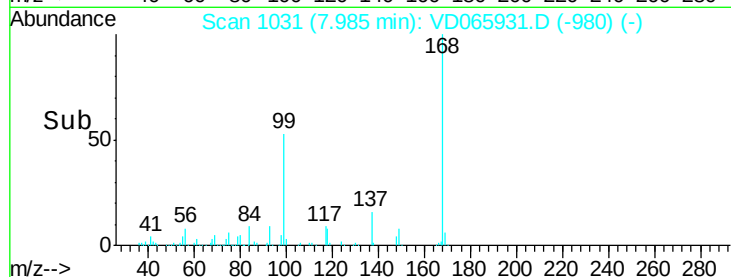
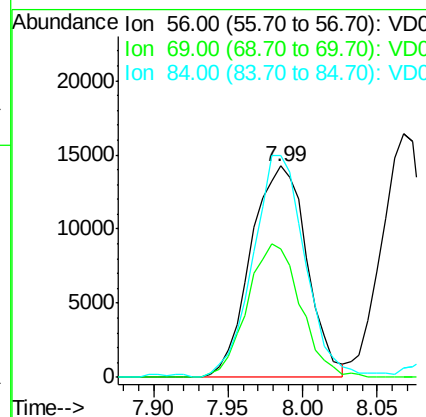
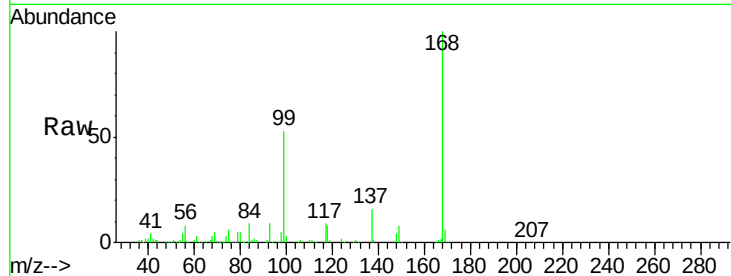
#31
Cyclohexane
Concen: 5.034 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	60.8	27.4	41.0#
84	104.9	68.6	102.8#

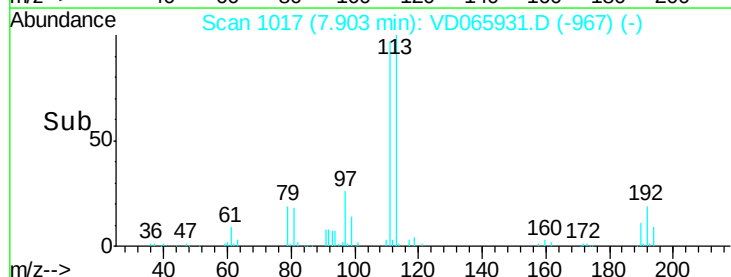
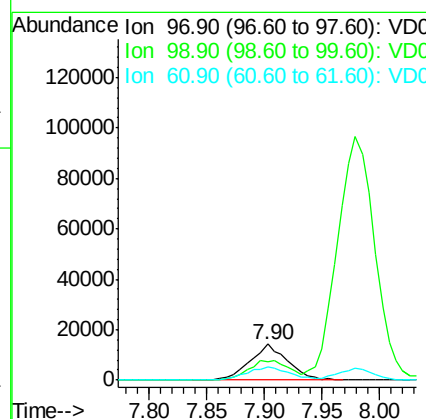
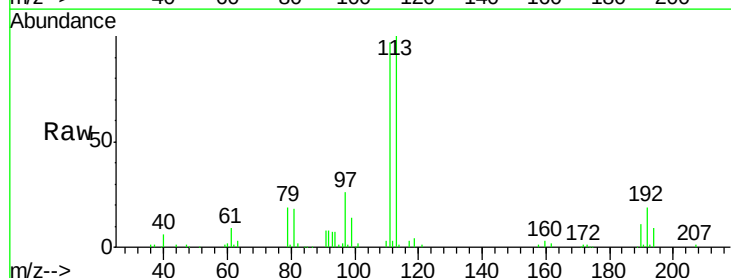
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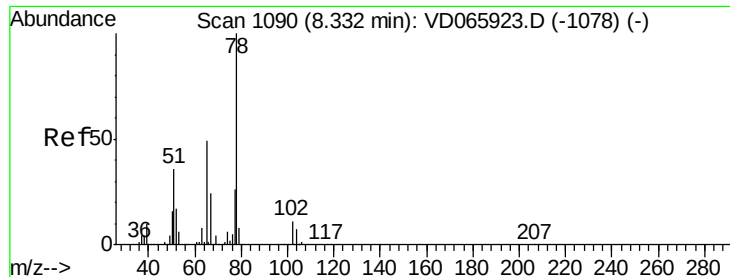
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#32
1,1,1-Trichloroethane
Concen: 4.611 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.5	51.6	77.4
61	41.5	33.6	50.4





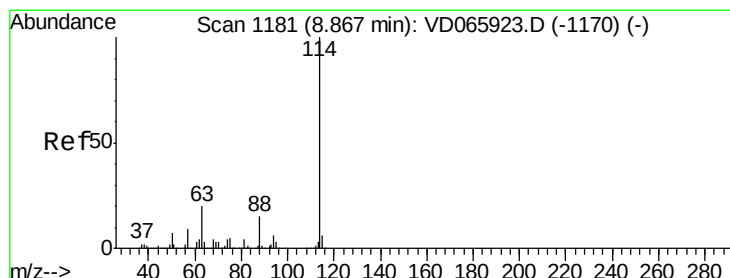
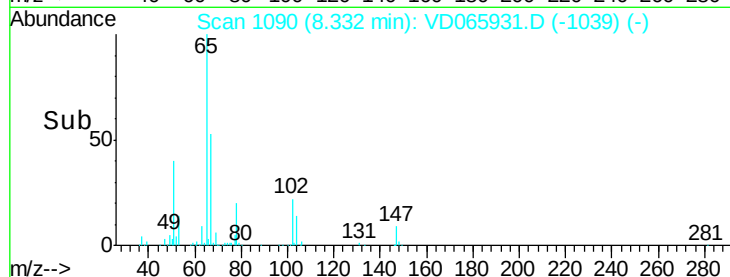
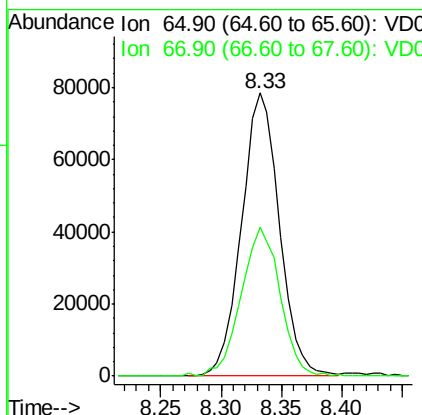
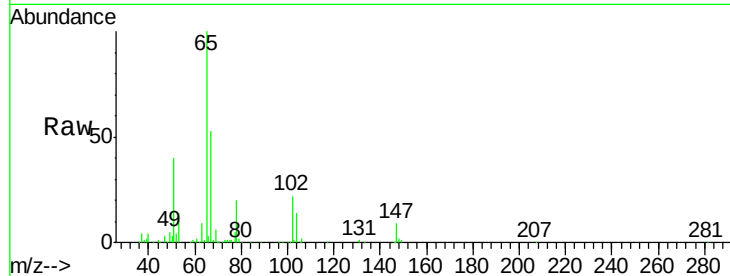
#33
 1,2-Dichloroethane-d4
 Concen: 47.484 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	105.6

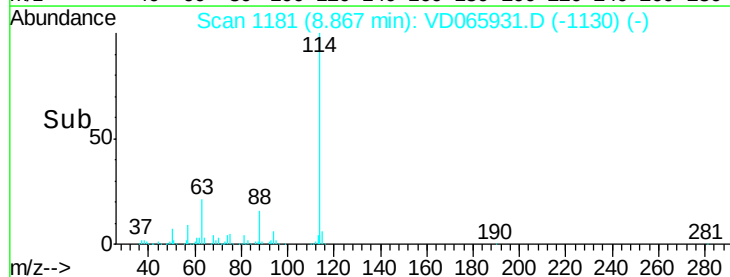
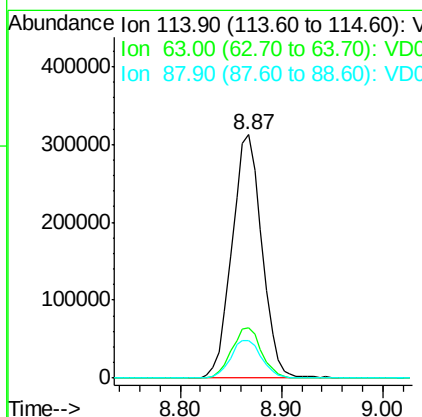
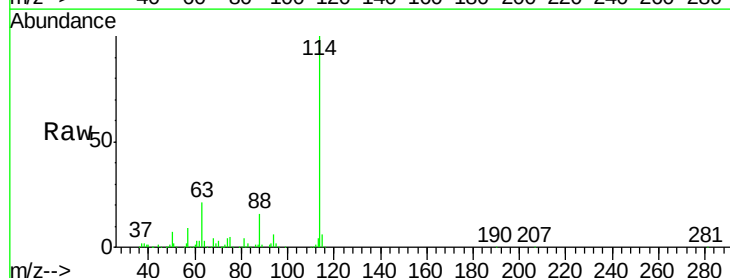
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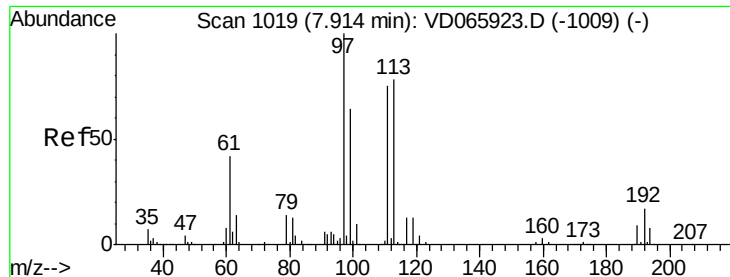
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	39.2
88	15.5	0.0	30.0





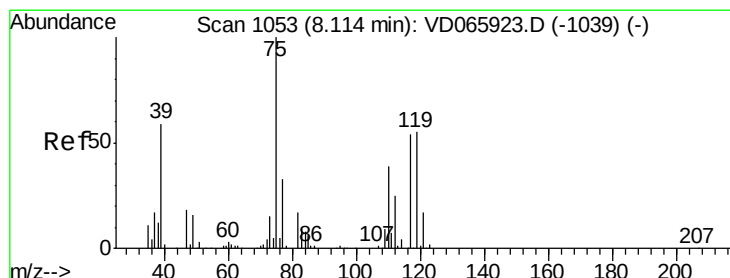
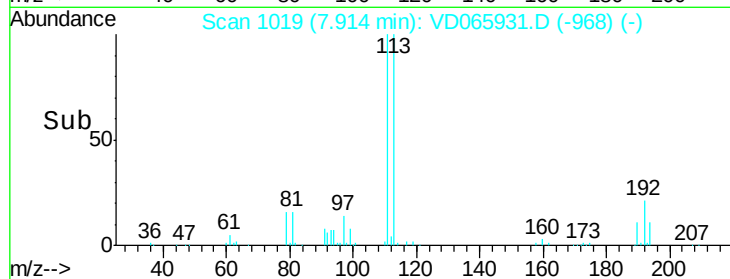
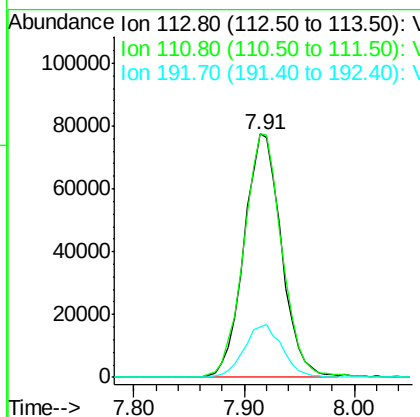
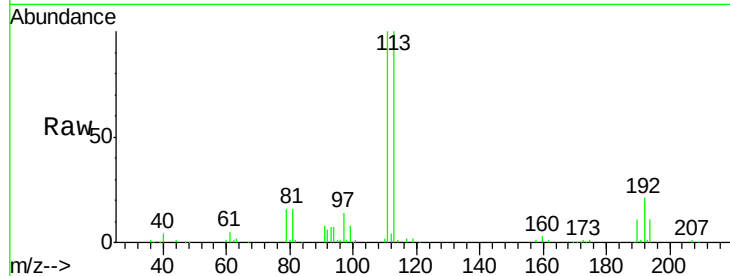
#35
 Dibromofluoromethane
 Concen: 46.530 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleID :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	184270		
111	102.1	80.9	121.3	
192	22.2	17.1	25.7	

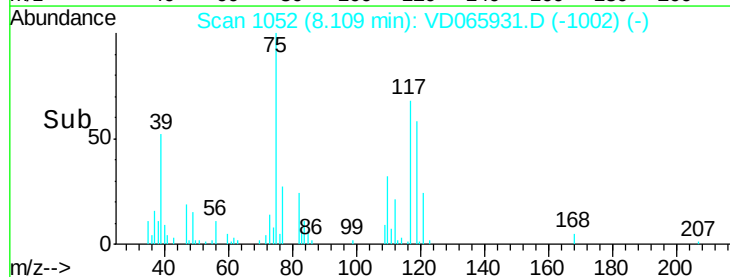
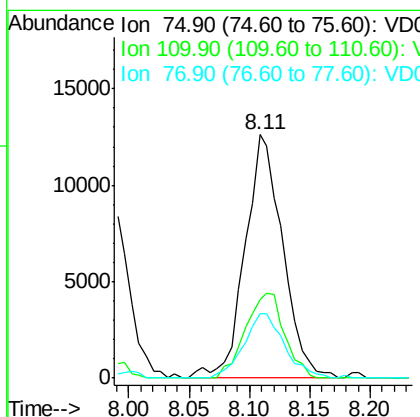
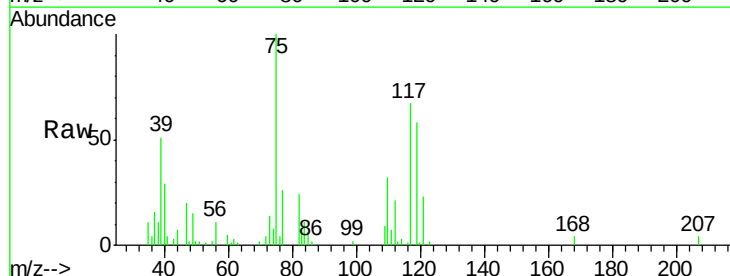
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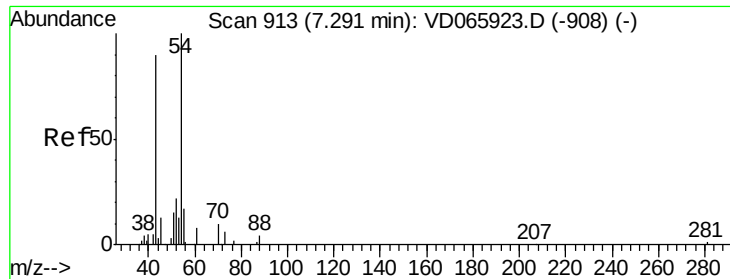
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#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	27477		
110	36.1	18.5	55.5	
77	28.5	25.6	38.4	





#37

Ethyl Acetate

Concen: 3.926 ug/l

RT: 7.30 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

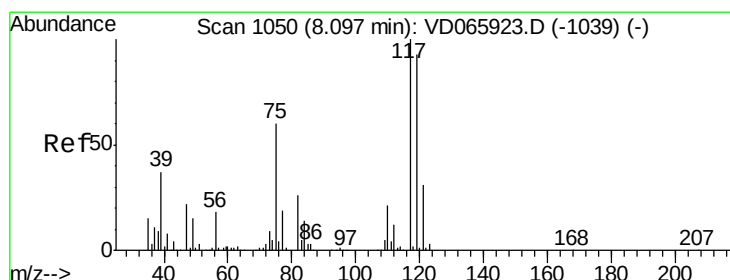
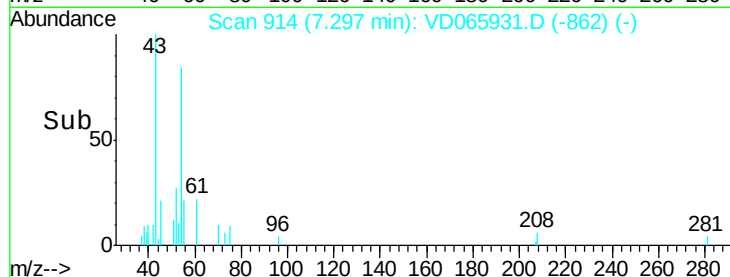
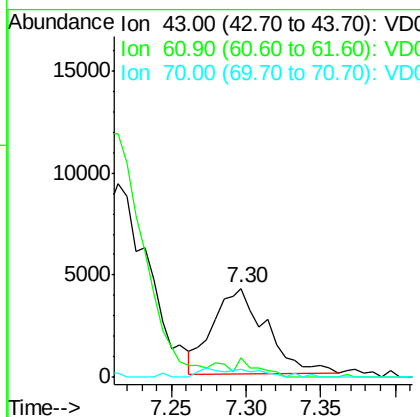
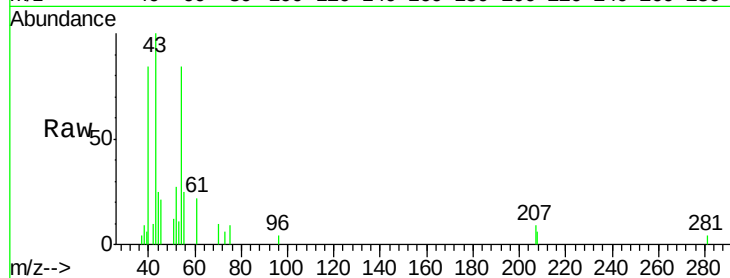
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	43	Resp:	10431
Ion Ratio	Lower	Upper	
43	100		
61	0.0	9.4	14.0#
70	0.0	8.3	12.5#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 4.225 ug/l

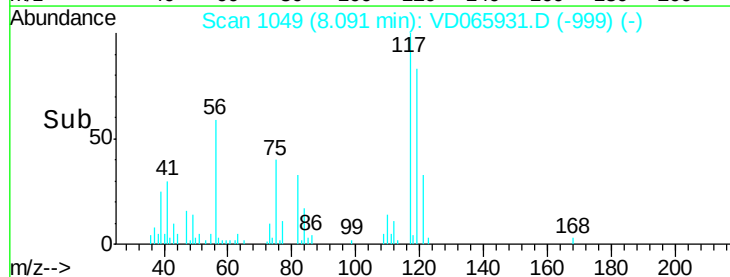
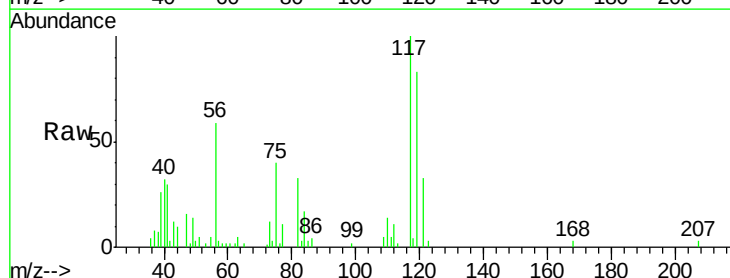
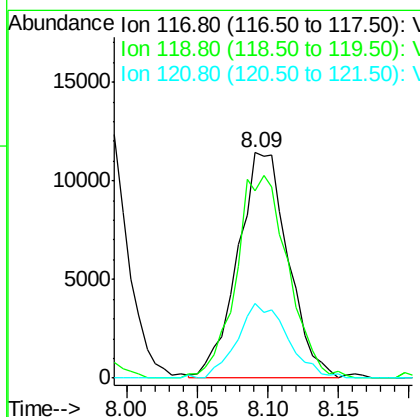
RT: 8.09 min Scan# 1049

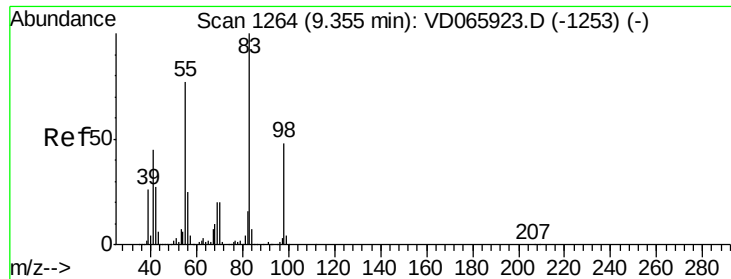
Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	117	Resp:	28711
Ion Ratio	Lower	Upper	
117	100		
119	80.8	74.7	112.1
121	31.5	24.9	37.3





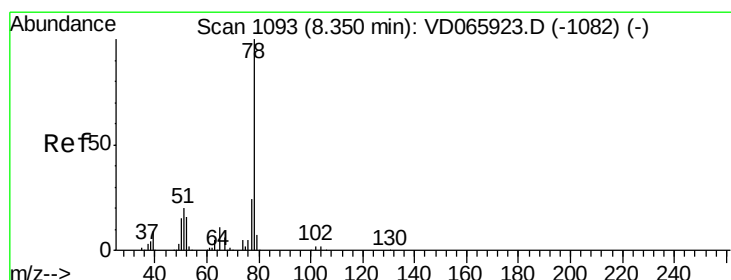
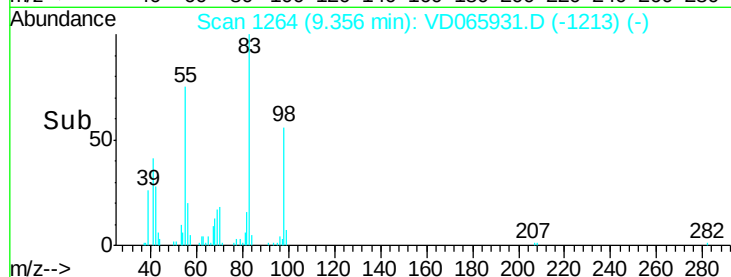
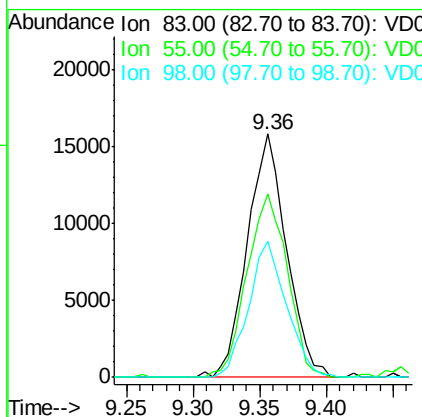
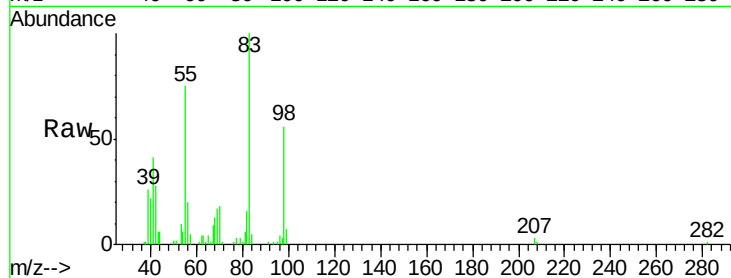
#39
Methylvlcyclohexane
Concen: 4.119 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.4	61.7	92.5
98	55.8	38.6	58.0

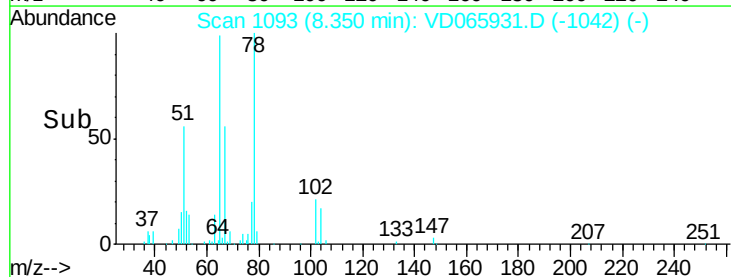
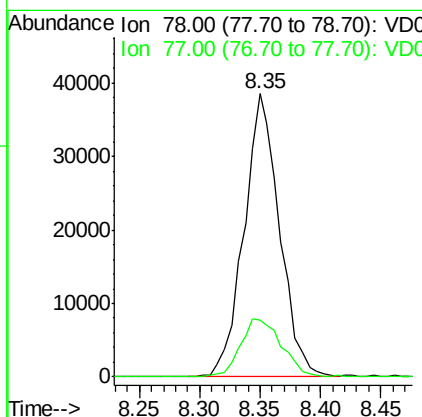
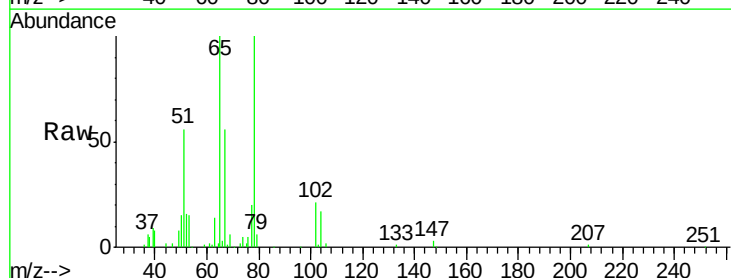
Manual Integrations
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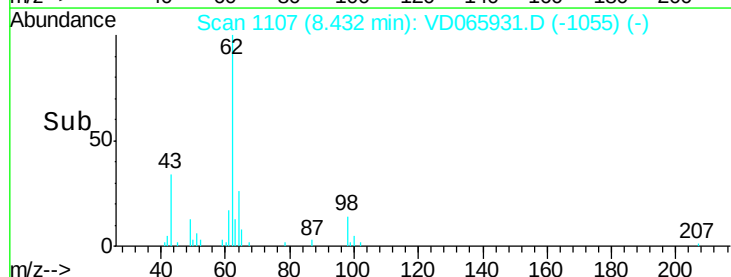
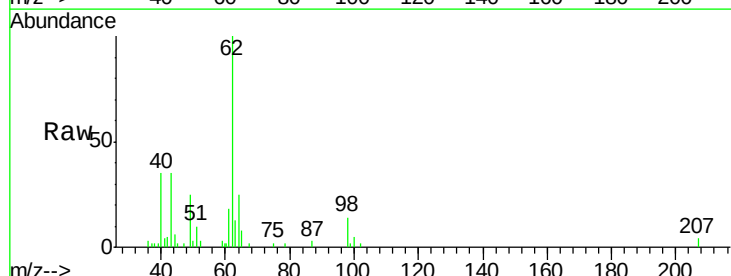
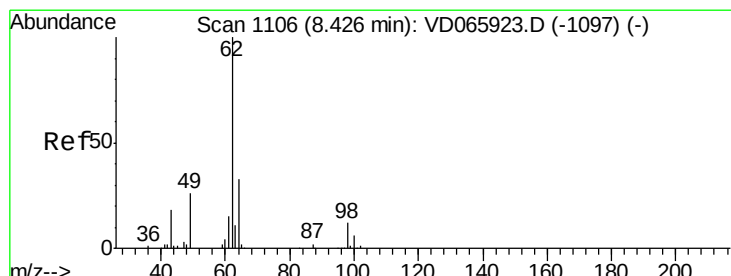
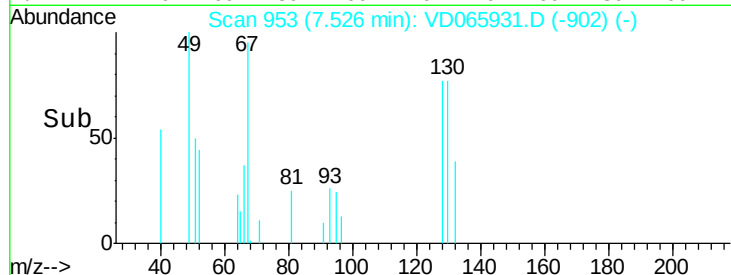
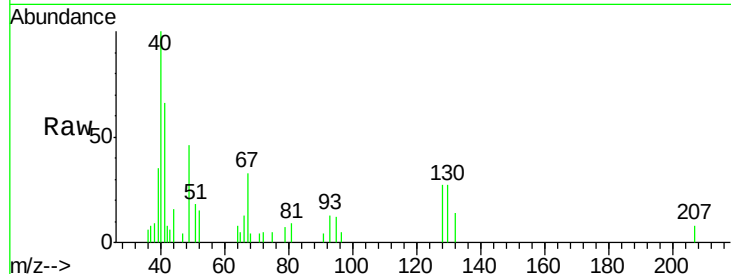
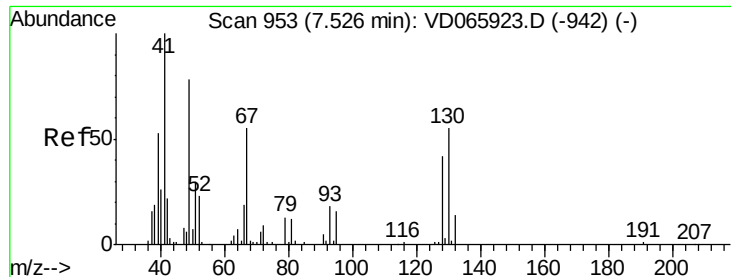
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#40
Benzene
Concen: 4.498 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.2	19.4	29.0





#41

Methacrylonitrile

Concen: 4.354 ug/l m

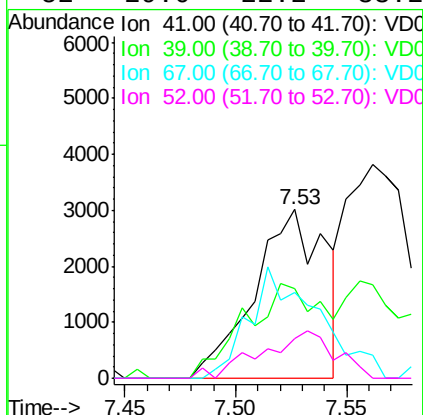
RT: 7.53 min Scan# 953

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.0	42.4	63.6	
67	63.8	53.6	80.4	
52	29.0	22.2	33.2	



Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 4.427 ug/l

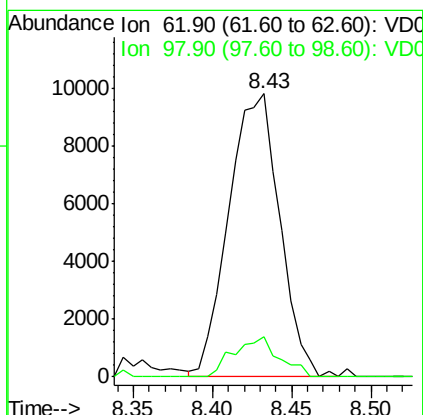
RT: 8.43 min Scan# 1107

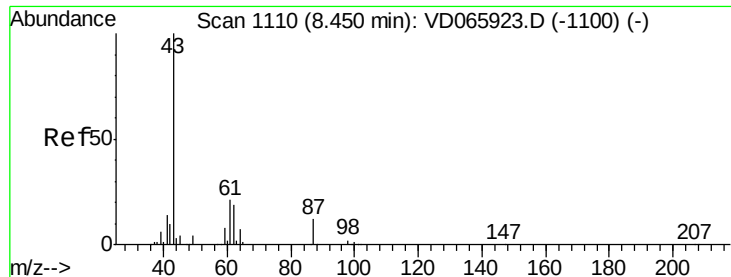
Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	12.3	0.0	20.0	





#43

Isopropyl Acetate

Concen: 4.379 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

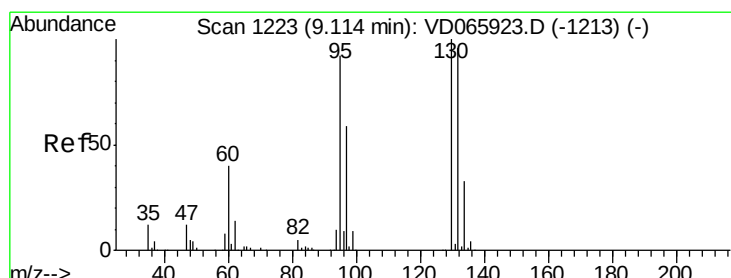
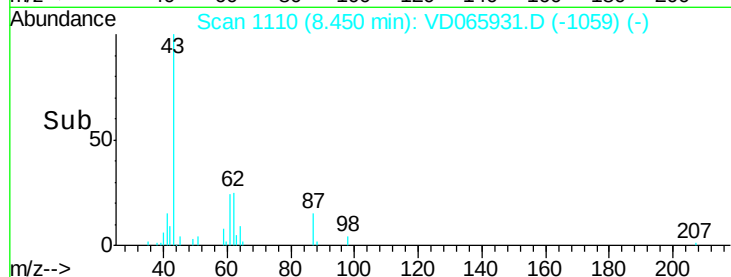
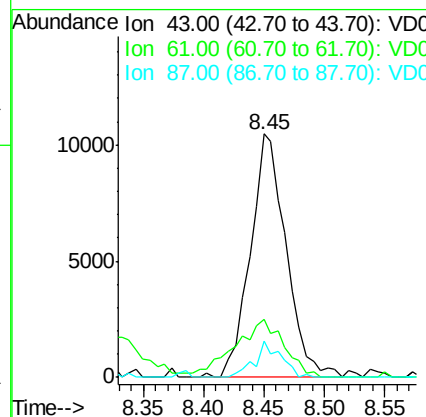
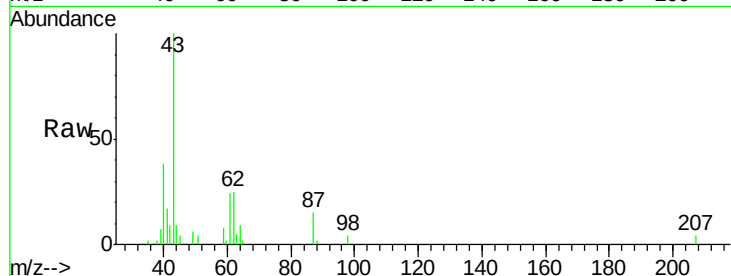
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	43	Resp:	21652
Ion	Ratio	Lower	Upper
43	100		
61	33.3	23.2	34.8
87	10.9	10.0	15.0

Manual Integrations
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#44

Trichloroethene

Concen: 4.346 ug/l

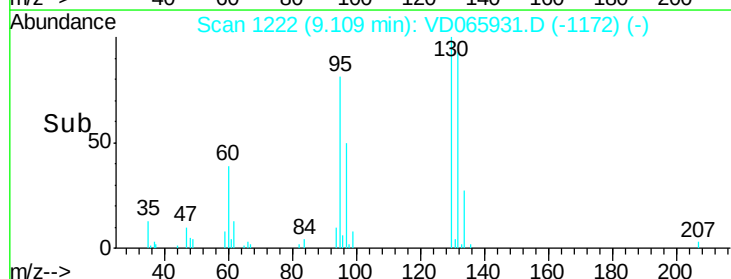
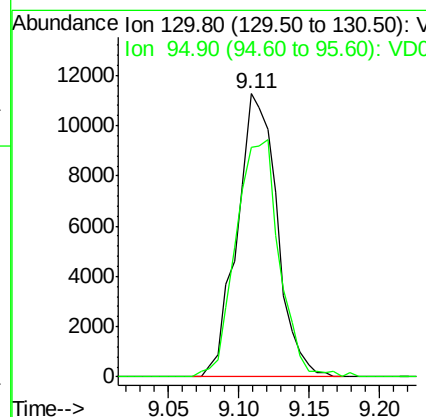
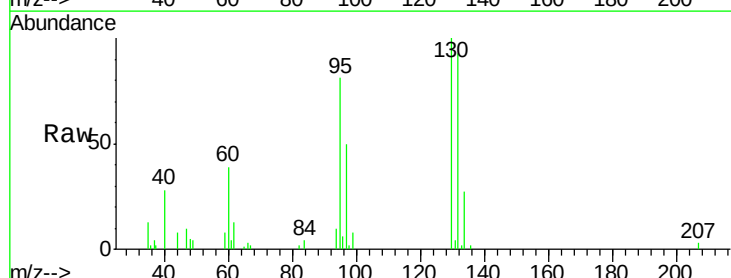
RT: 9.11 min Scan# 1222

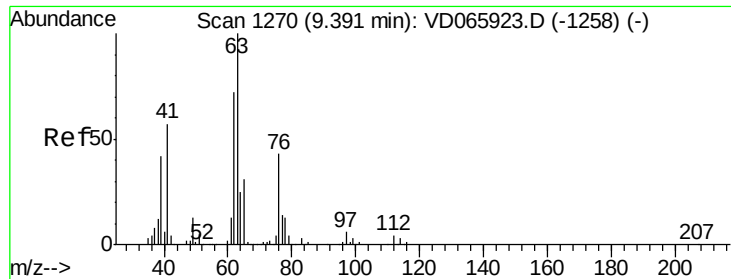
Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	130	Resp:	22365
Ion	Ratio	Lower	Upper
130	100		
95	81.0	0.0	184.6





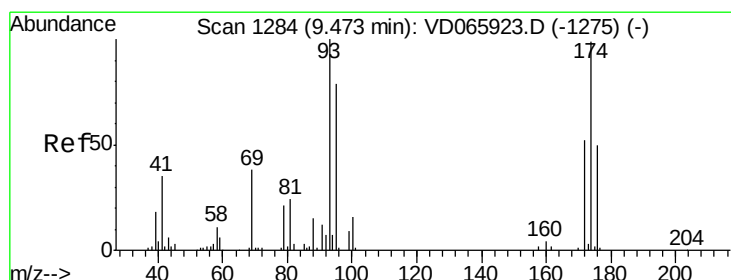
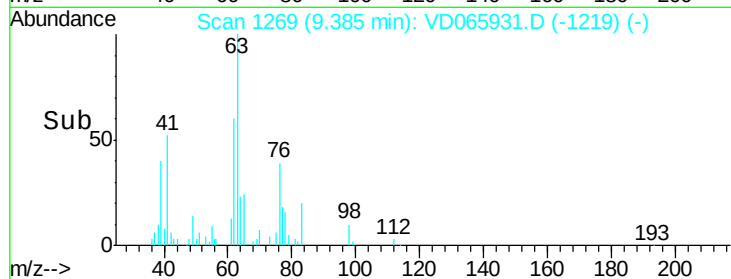
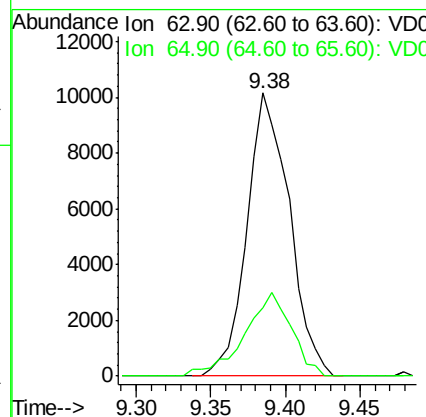
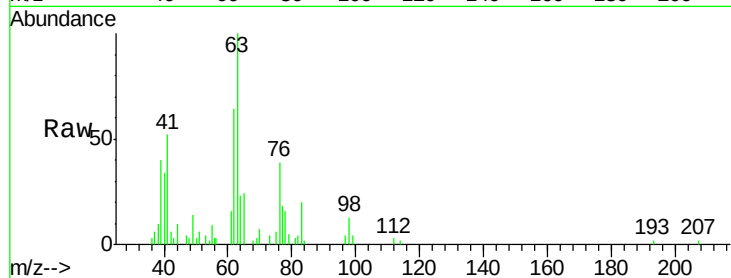
#45
 1,2-Dichloropropane
 Concen: 4.583 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 63 Resp: 19923
 Ion Ratio Lower Upper
 63 100
 65 24.3 25.0 37.6#

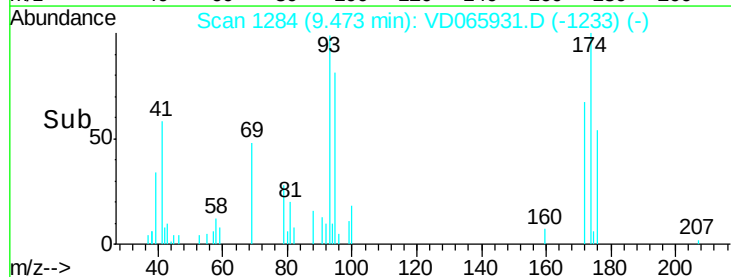
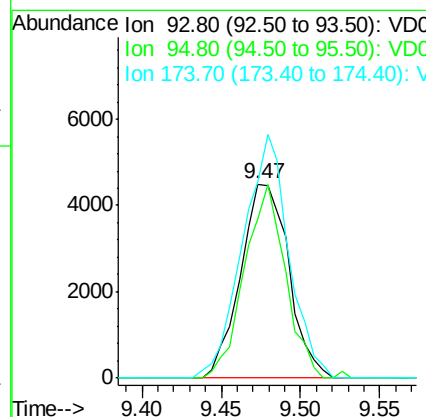
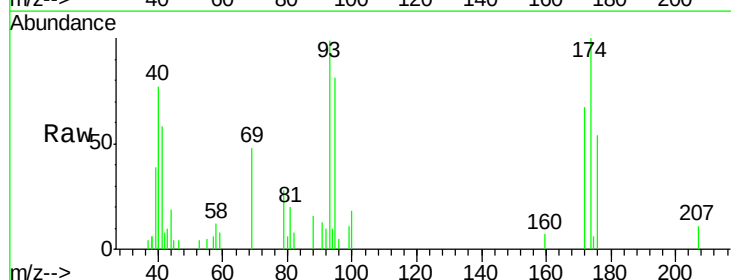
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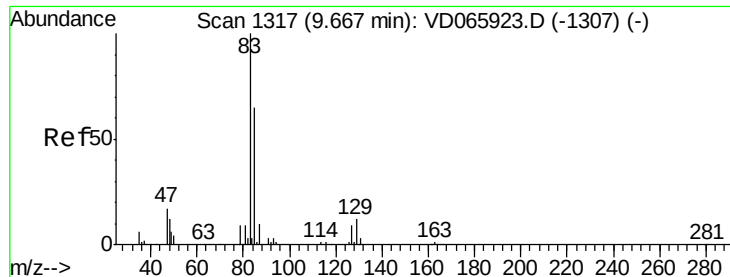
MMDadoda
 7/8/2020 12:05:17 PM



#46
 Dibromomethane
 Concen: 4.202 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion: 93 Resp: 9510
 Ion Ratio Lower Upper
 93 100
 95 84.4 68.2 102.2
 174 119.6 88.0 132.0





#47

Bromodichloromethane

Concen: 4.293 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

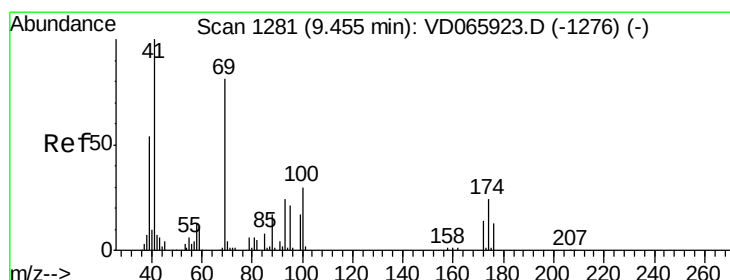
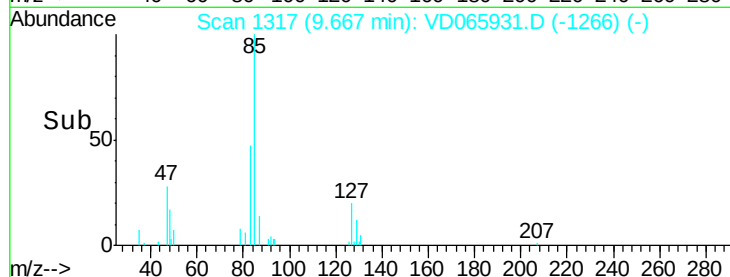
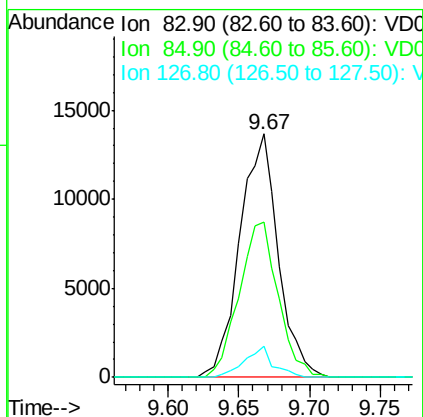
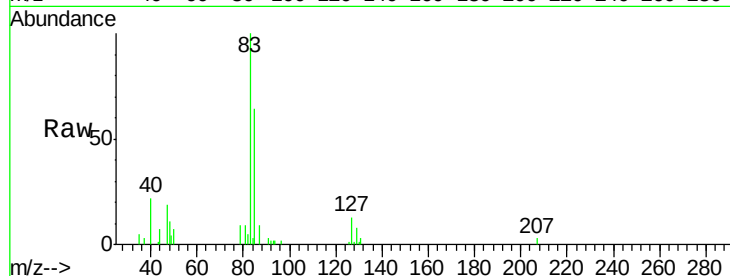
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	83	Resp:	26062
Ion Ratio	Lower	Upper	
83	100		
85	63.9	51.6	77.4
127	12.9	7.2	10.8#

Manual Integrations
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MMDadoda
7/8/2020 12:05:17 PM



#48

Methyl methacrylate

Concen: 4.367 ug/l

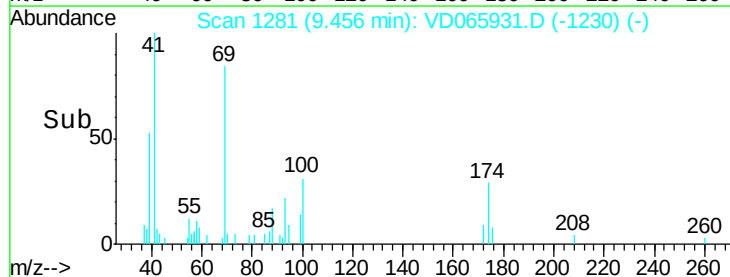
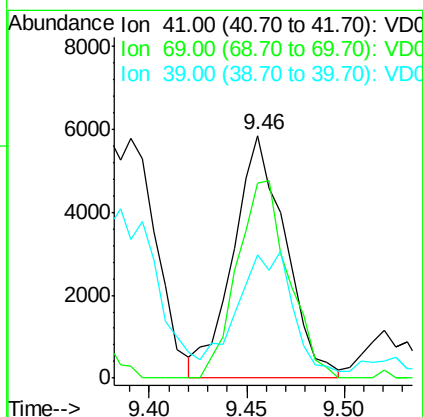
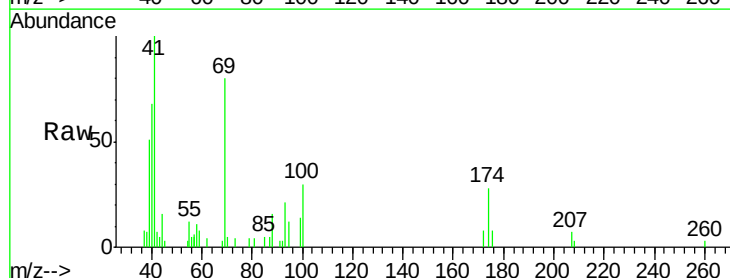
RT: 9.46 min Scan# 1281

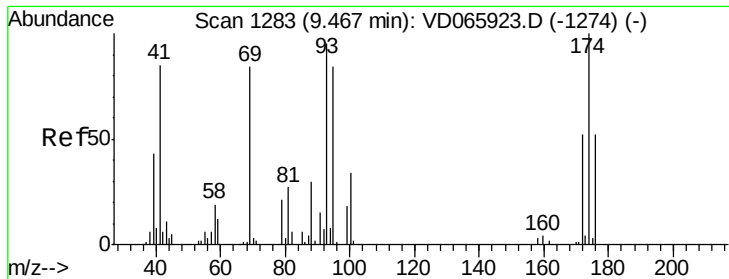
Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	41	Resp:	10872
Ion Ratio	Lower	Upper	
41	100		
69	79.6	62.2	93.4
39	50.3	39.9	59.9





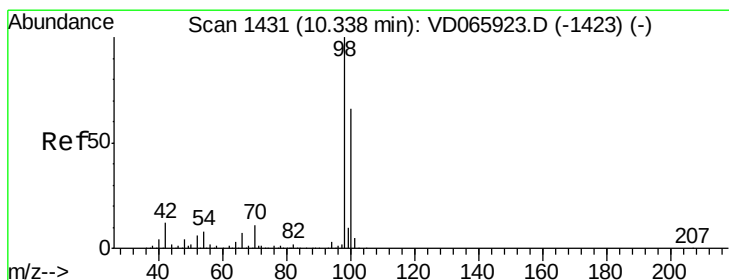
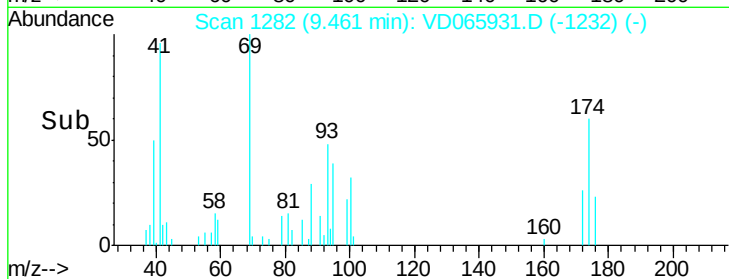
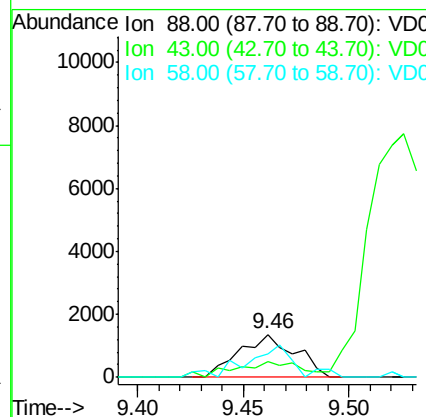
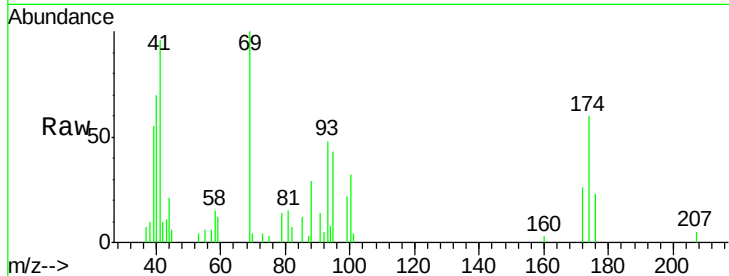
#49
1,4-Dioxane
Concen: 92.253 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.5	28.2	42.4#
58	66.4	58.6	87.8

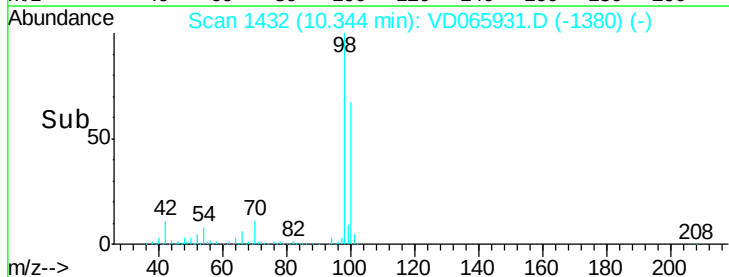
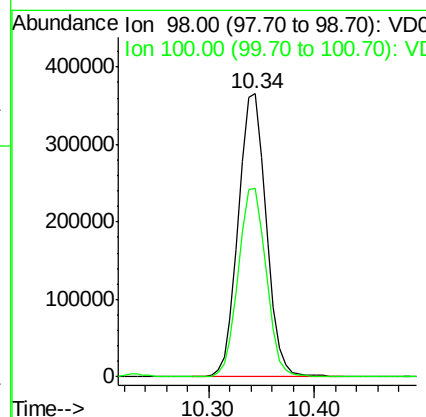
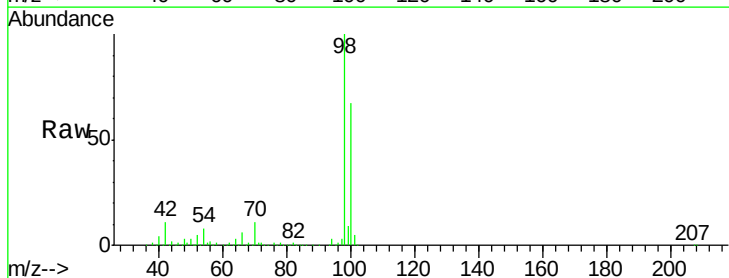
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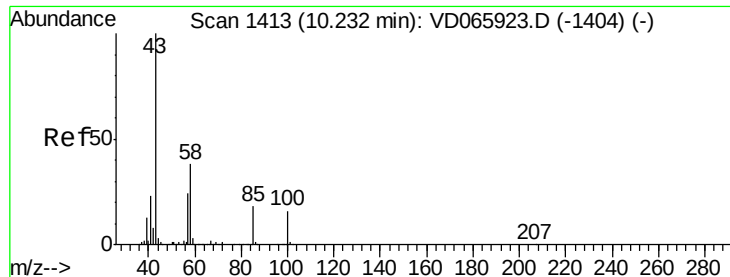
MMDadoda
7/8/2020 12:05:17 PM



#50
Toluene-d8
Concen: 46.318 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.1	79.7





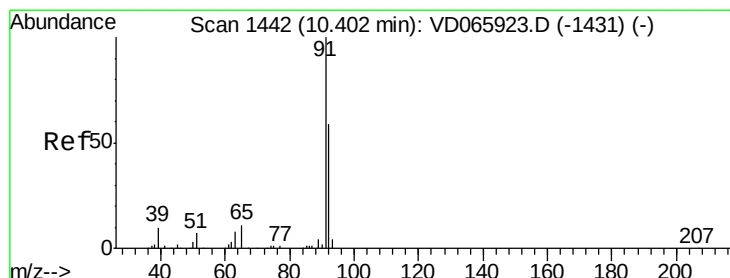
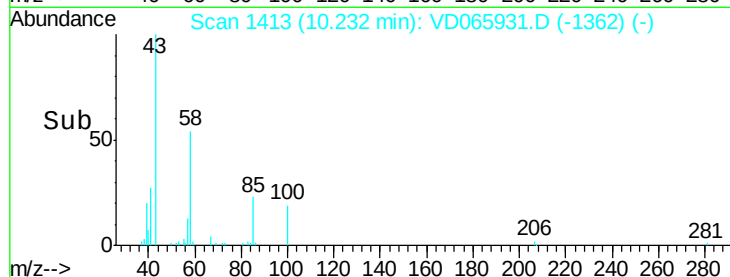
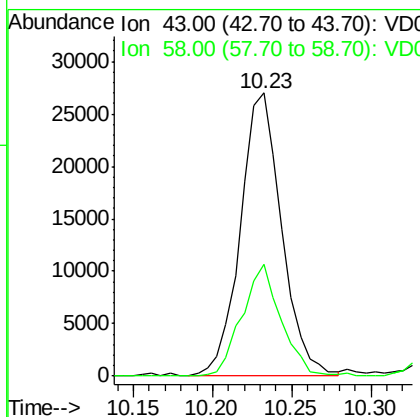
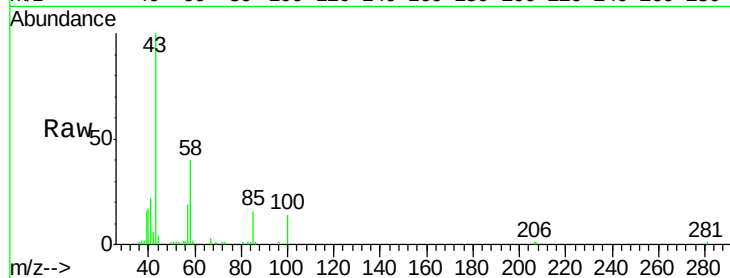
#51
 4-Methyl-2-Pentanone
 Concen: 19.568 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	43	Resp	48919
Ion	Ratio	Lower	Upper
43	100		
58	37.4	30.5	45.7

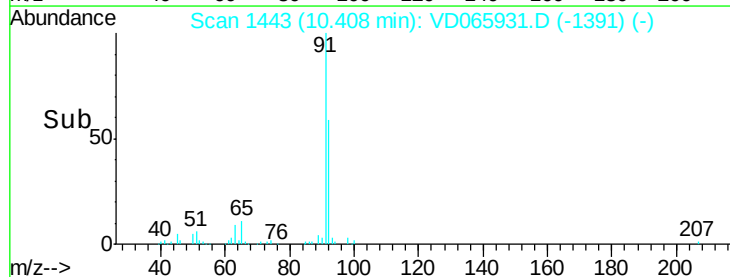
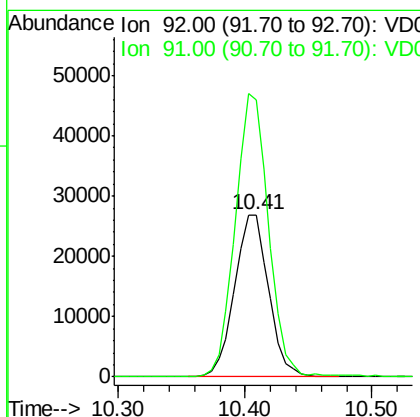
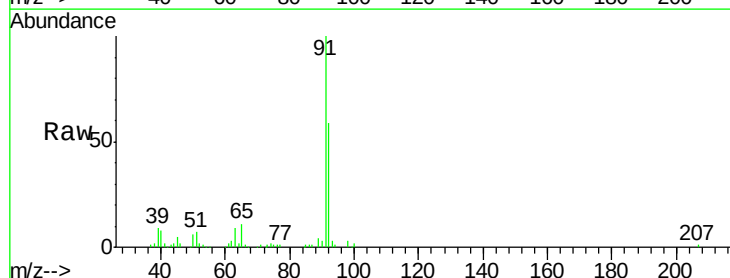
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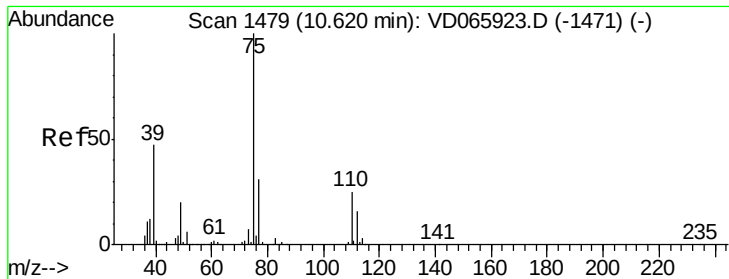
MMDadoda
 7/8/2020 12:05:17 PM



#52
 Toluene
 Concen: 4.474 ug/l
 RT: 10.41 min Scan# 1443
 Delta R.T. 0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	92	Resp	49861
Ion	Ratio	Lower	Upper
92	100		
91	169.9	136.0	204.0





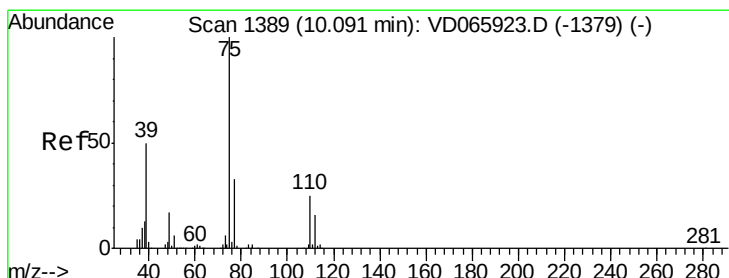
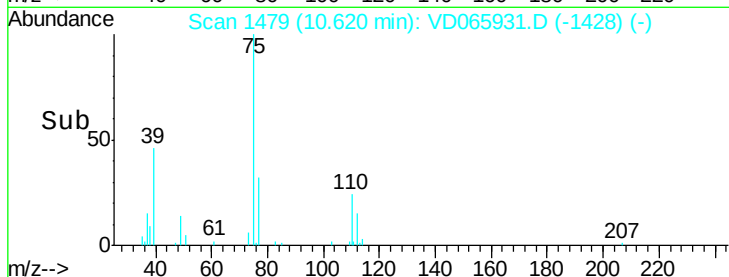
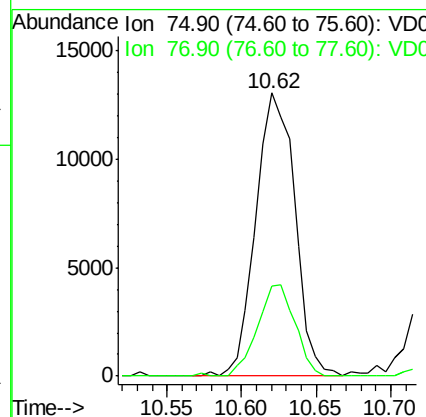
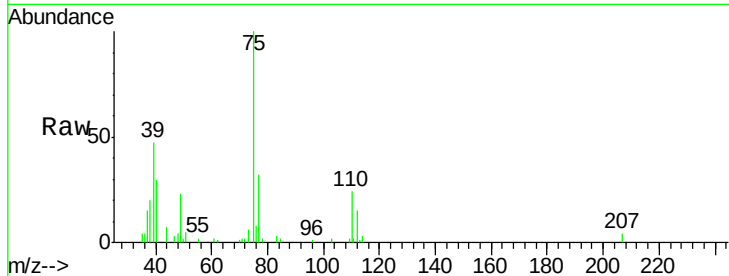
#53
 t-1,3-Dichloropropene
 Concen: 4.142 ug/l
 RT: 10.62 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7

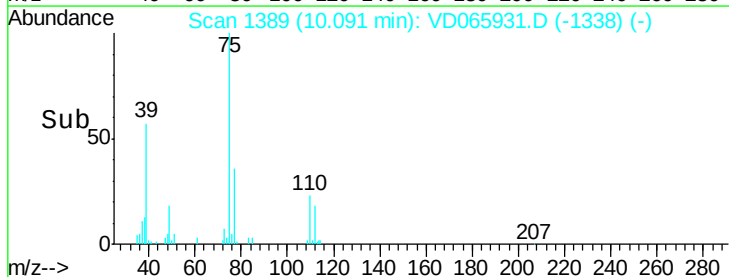
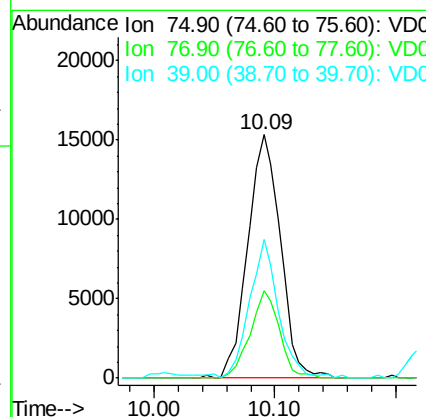
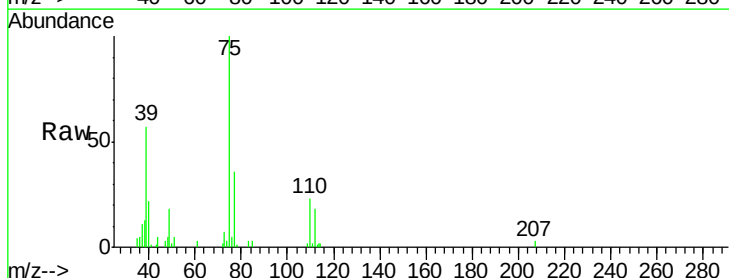
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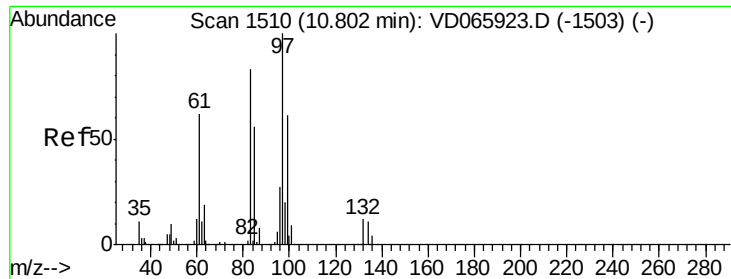
MMDadoda
 7/8/2020 12:05:17 PM



#54
 cis-1,3-Dichloropropene
 Concen: 4.192 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	35.8	26.6	39.8
39	55.7	39.6	59.4





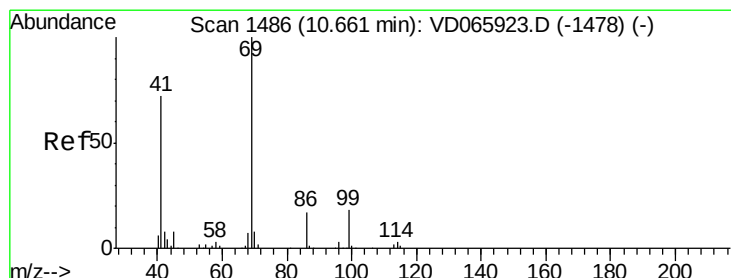
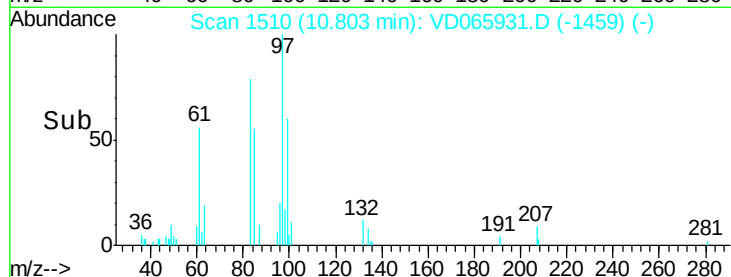
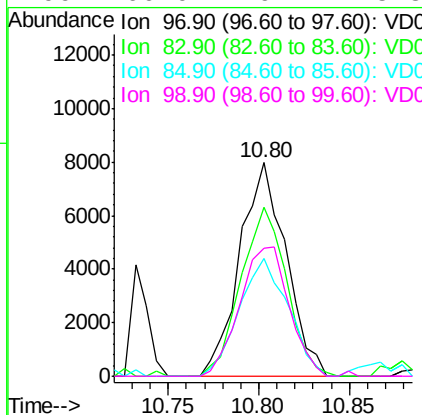
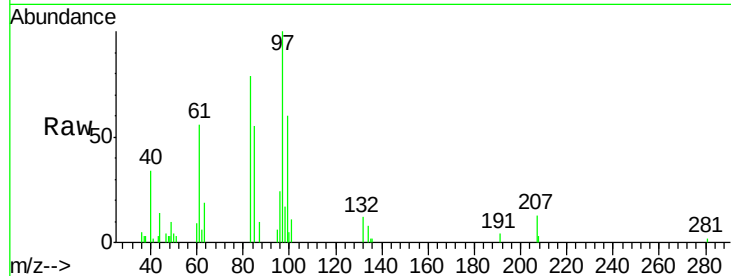
#55
 1,1,2-Trichloroethane
 Concen: 4.522 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	97	Resp:	14102
Ion	Ratio	Lower	Upper
97	100		
83	78.8	66.9	100.3
85	55.4	44.5	66.7
99	60.0	49.2	73.8

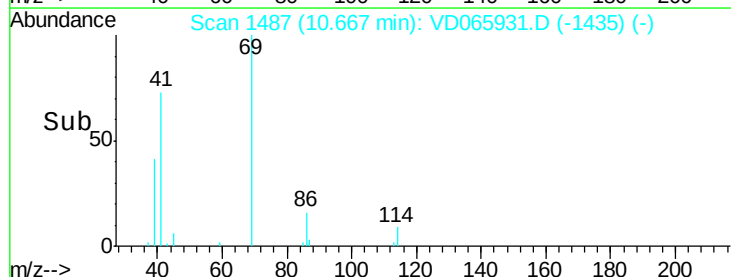
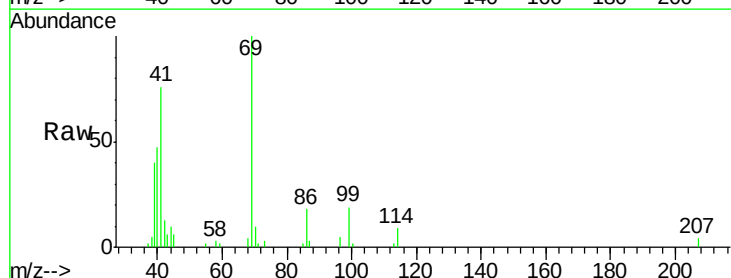
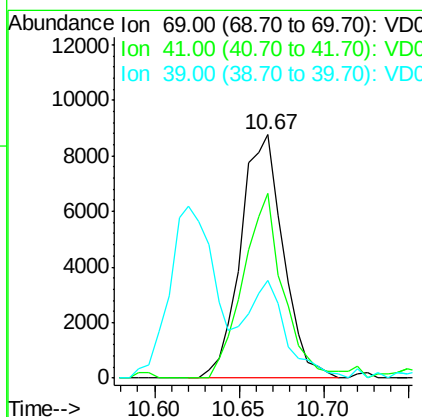
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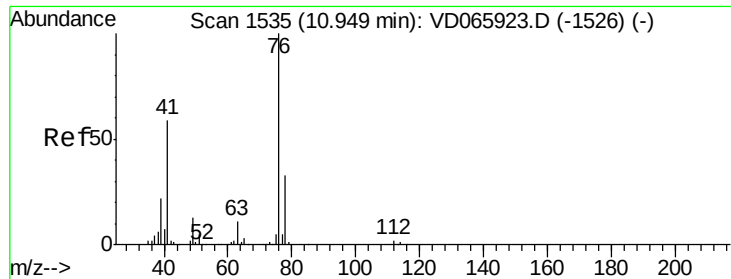
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#56
 Ethyl methacrylate
 Concen: 4.032 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion:	69	Resp:	15356
Ion	Ratio	Lower	Upper
69	100		
41	74.0	56.5	84.7
39	34.1	29.2	43.8





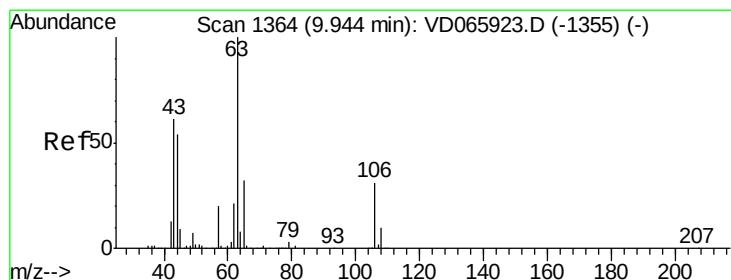
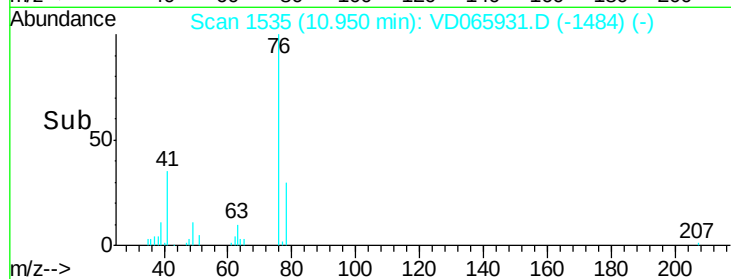
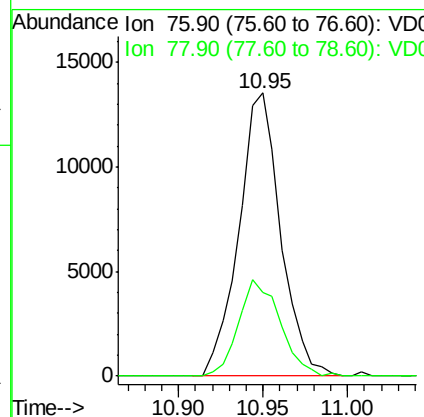
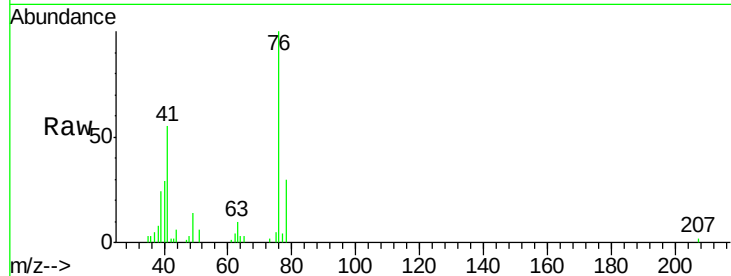
#57
 1,3-Dichloropropane
 Concen: 4.285 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 76 Resp: 23368
 Ion Ratio Lower Upper
 76 100
 78 34.1 25.8 38.6

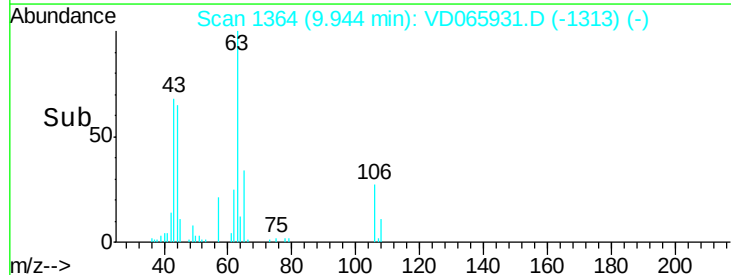
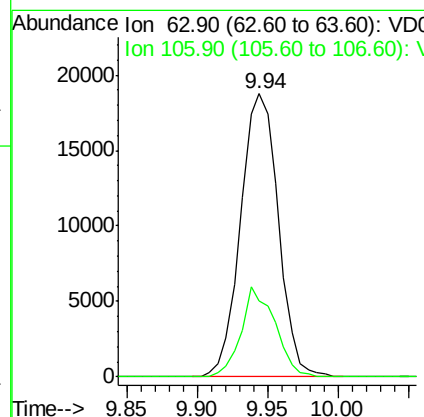
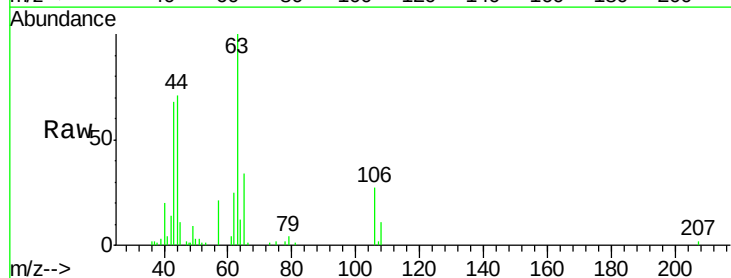
Manual Integrations
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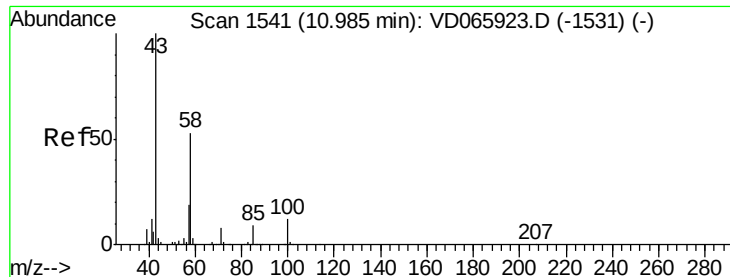
MMDadoda
 7/8/2020 12:05:17 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 19.047 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion: 63 Resp: 35135
 Ion Ratio Lower Upper
 63 100
 106 28.7 23.8 35.6





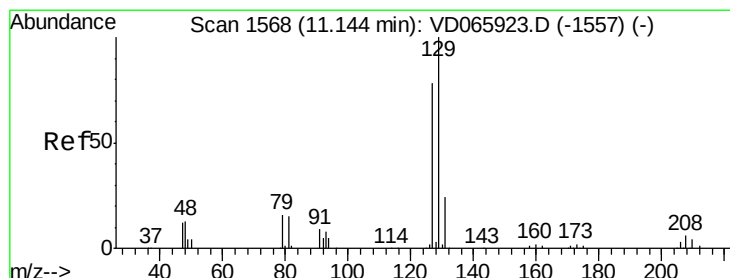
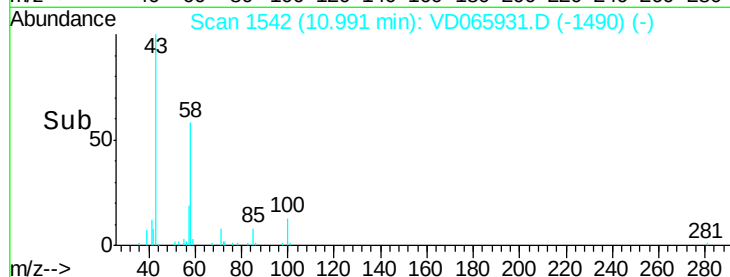
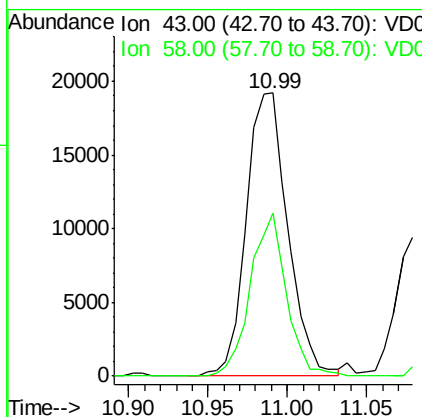
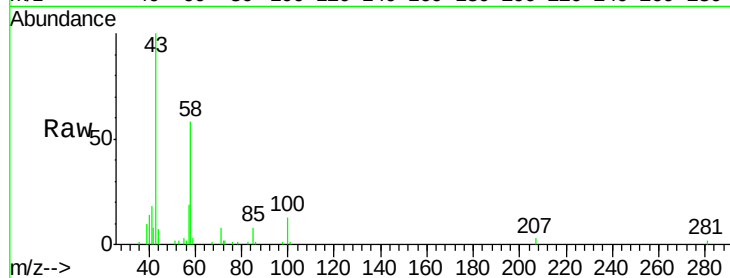
#59
2-Hexanone
Concen: 20.358 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 43 Resp: 35003
Ion Ratio Lower Upper
43 100
58 49.6 26.6 79.8

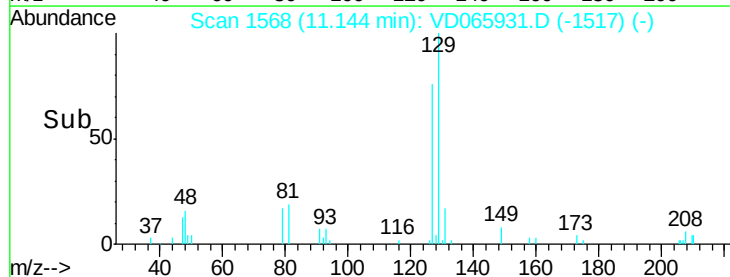
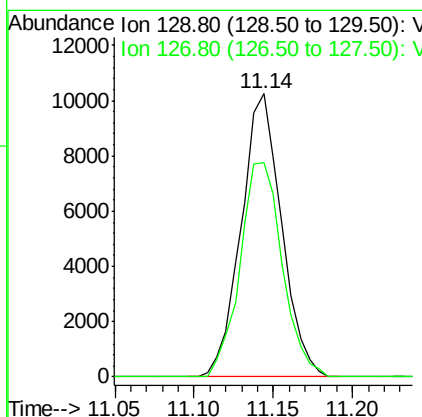
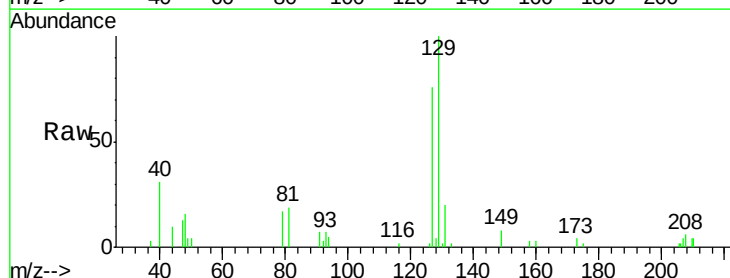
Manual Integrations
APPROVED

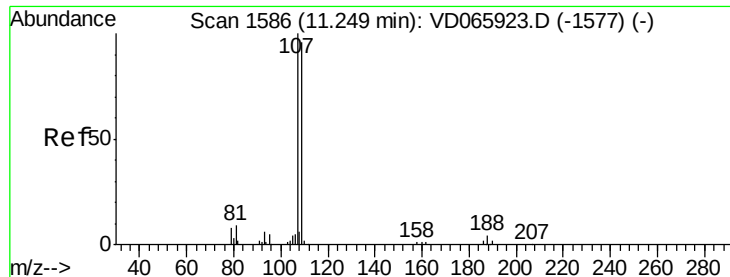
MMDadoda
7/8/2020 12:05:17 PM



#60
Dibromochloromethane
Concen: 4.260 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion: 129 Resp: 18151
Ion Ratio Lower Upper
129 100
127 79.1 38.8 116.4





#61

1,2-Dibromoethane

Concen: 4.319 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:107 Resp: 13430

Ion Ratio Lower Upper

107 100

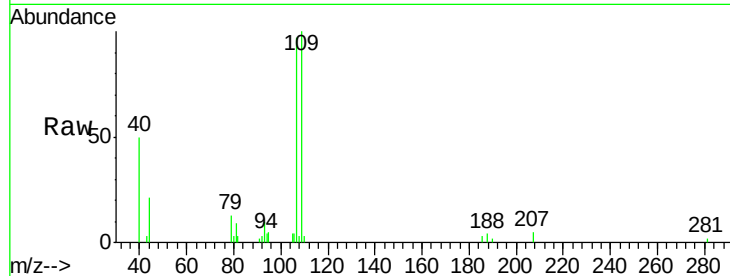
109 92.7 75.4 113.0

Manual Integrations

APPROVED

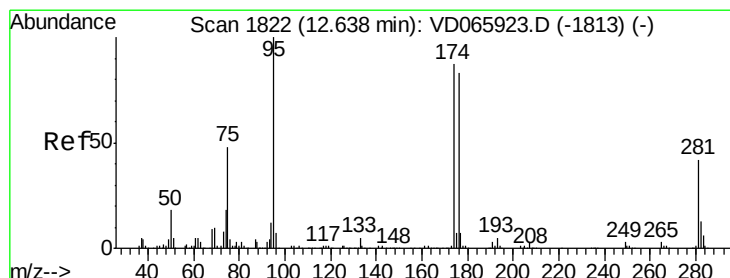
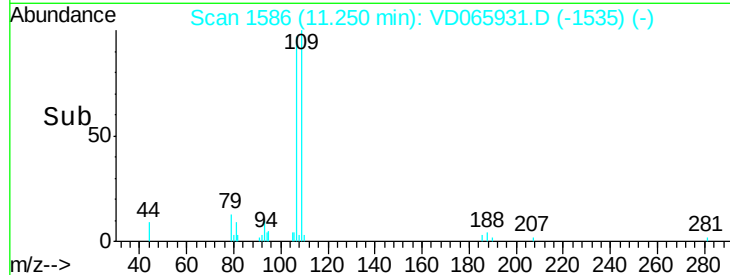
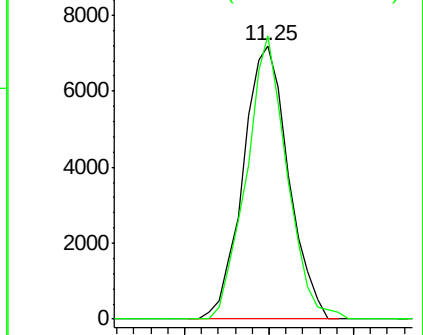
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.039 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

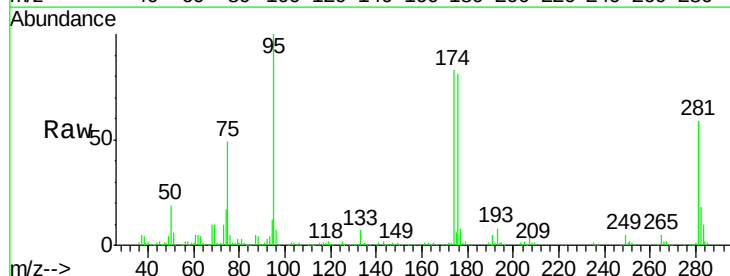
Tgt Ion: 95 Resp: 233410

Ion Ratio Lower Upper

95 100

174 86.6 0.0 169.4

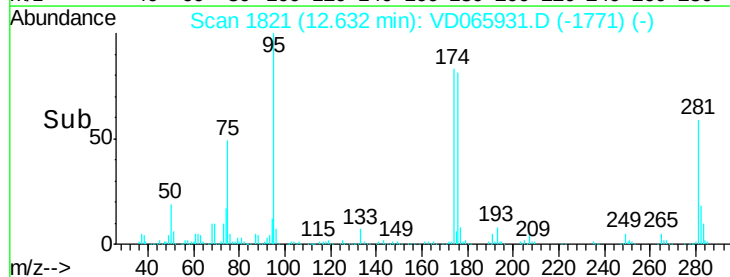
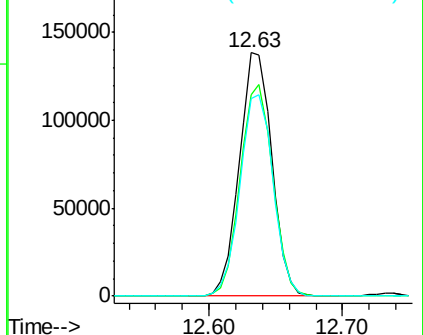
176 84.2 0.0 164.0

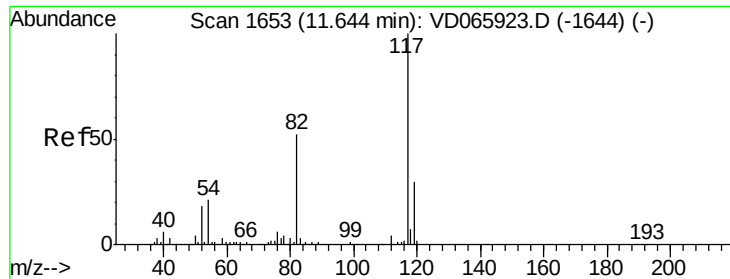


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





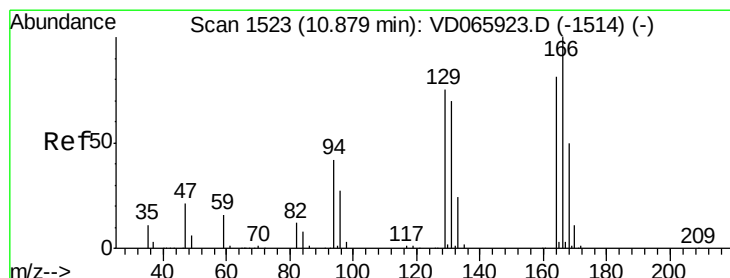
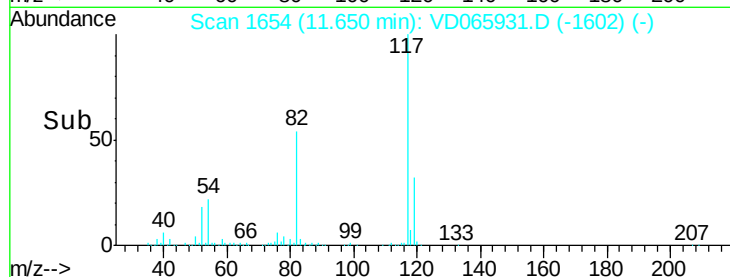
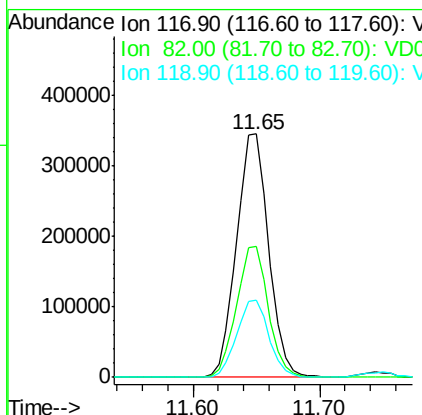
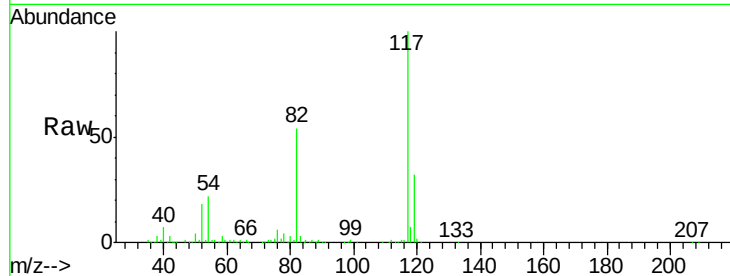
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	608009		
82	53.7		41.8	62.8
119	31.6		24.3	36.5

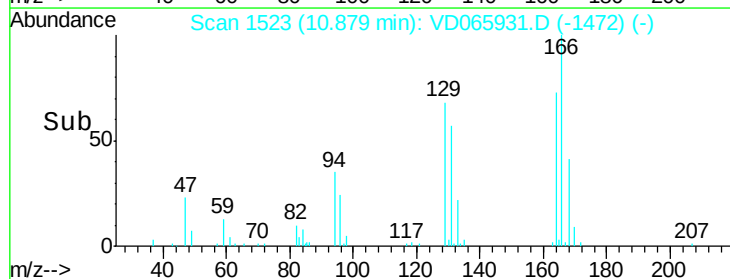
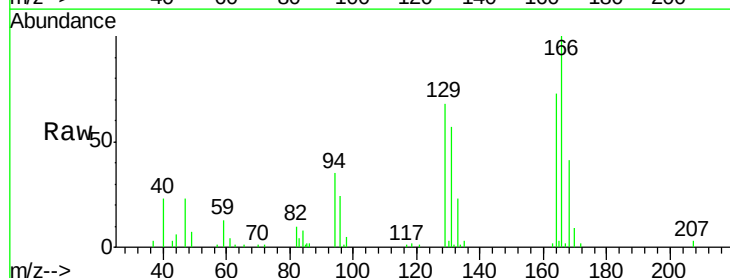
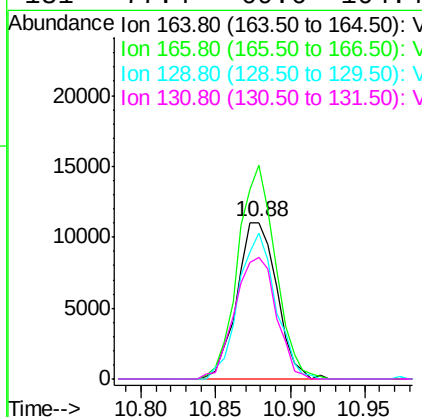
Manual Integrations
APPROVED

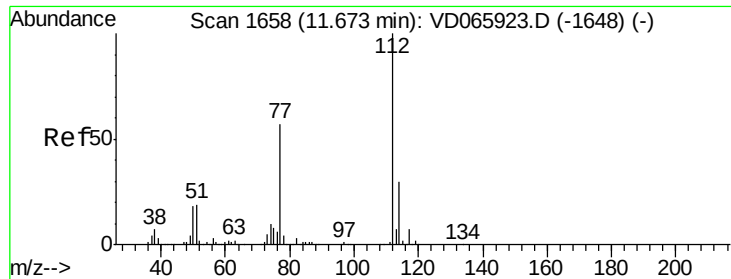
MMDadoda
7/8/2020 12:05:17 PM



#64
Tetrachloroethene
Concen: 4.611 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	20386		
166	136.2		99.0	148.4
129	93.3		73.9	110.9
131	77.4		69.6	104.4





#65

Chlorobenzene

Concen: 4.436 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:112 Resp: 54348

Ion Ratio Lower Upper

112 100

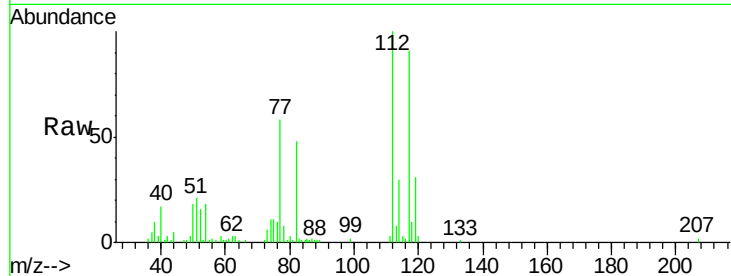
114 30.1 24.2 36.4

Manual Integrations

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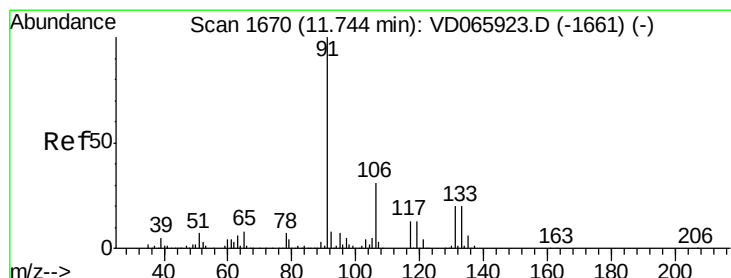
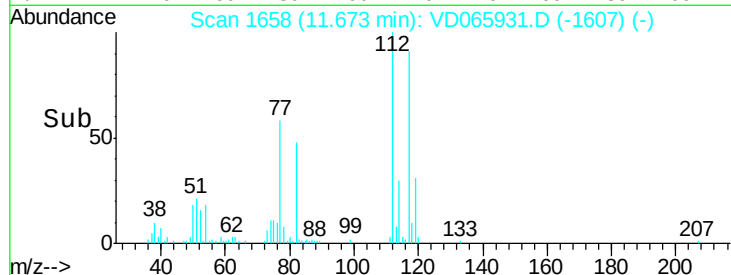
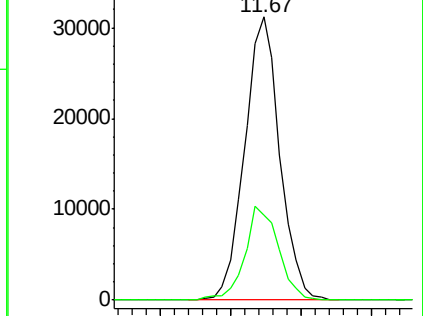
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.085 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

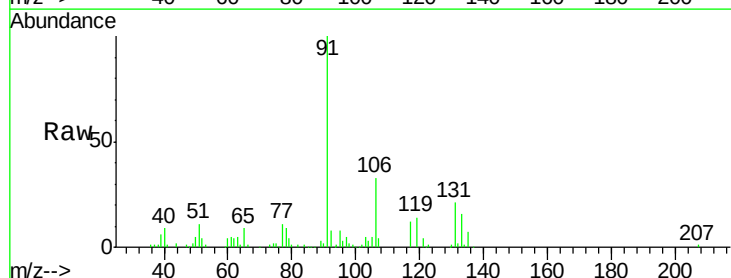
Tgt Ion:131 Resp: 18722

Ion Ratio Lower Upper

131 100

133 99.1 47.9 143.6

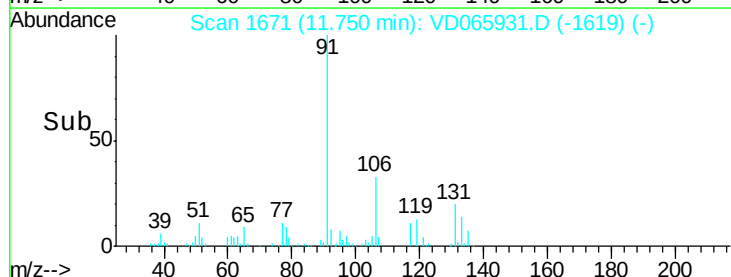
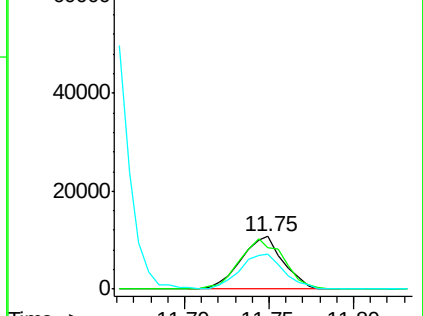
119 69.6 31.9 95.9

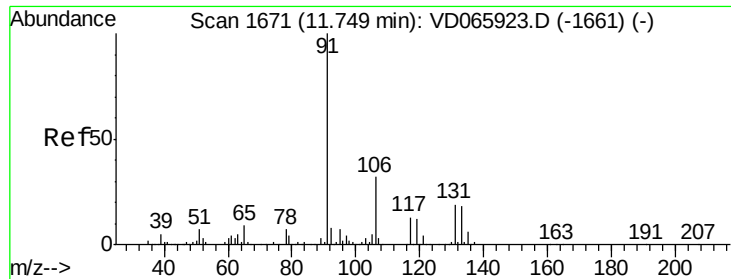


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 4.101 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 91 Resp: 89265

Ion Ratio Lower Upper

91 100

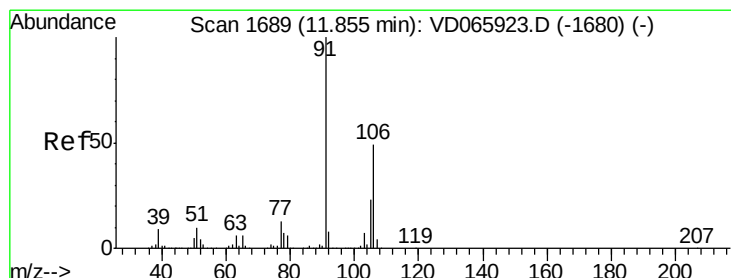
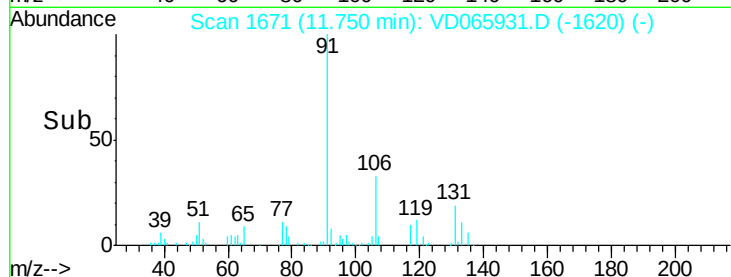
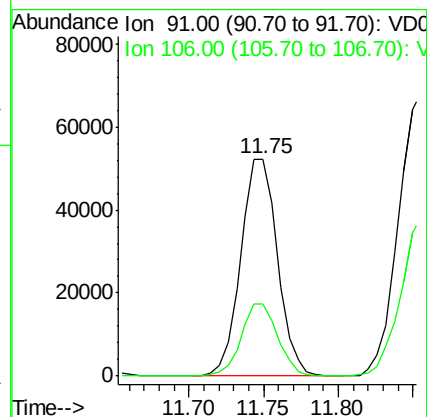
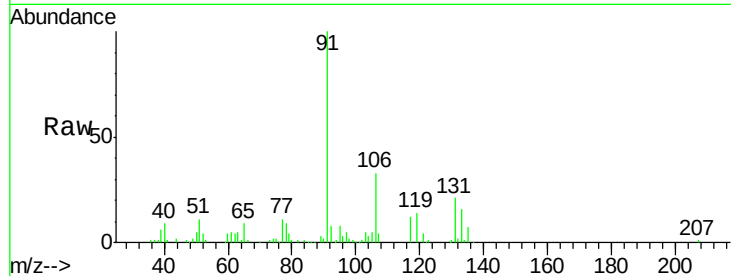
106 33.4 25.2 37.8

Manual Integrations

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#68

m/p-Xylenes

Concen: 8.494 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065931.D

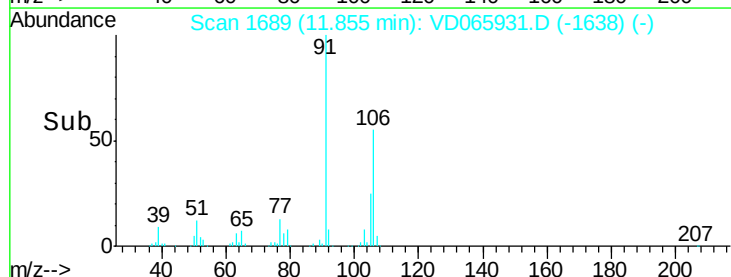
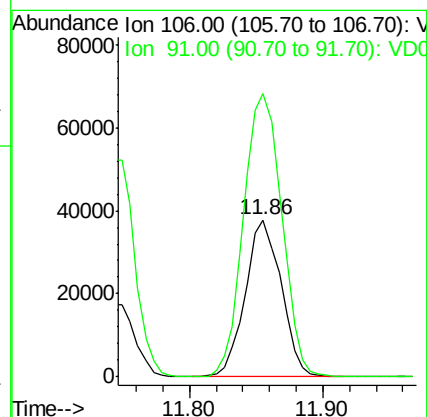
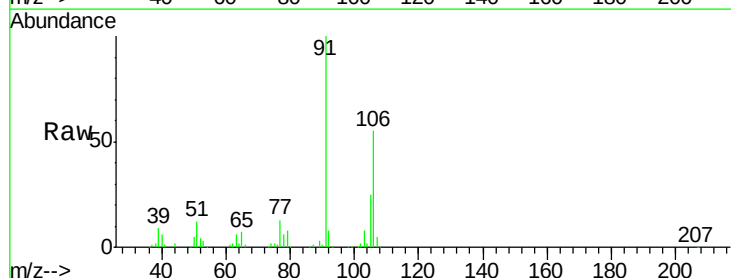
Acq: 07 Jul 2020 19:59

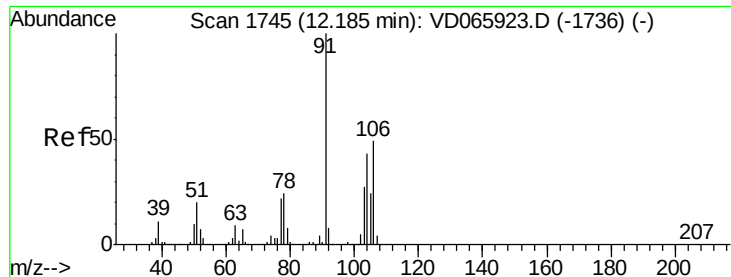
Tgt Ion: 106 Resp: 70247

Ion Ratio Lower Upper

106 100

91 192.4 158.2 237.2





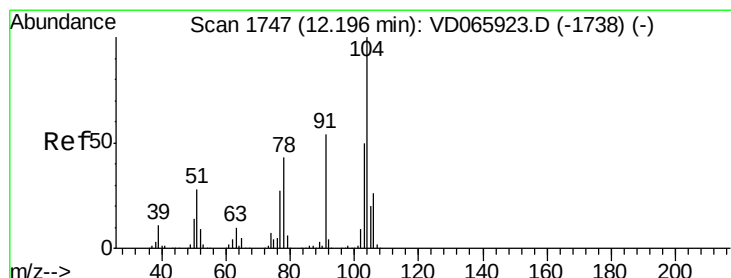
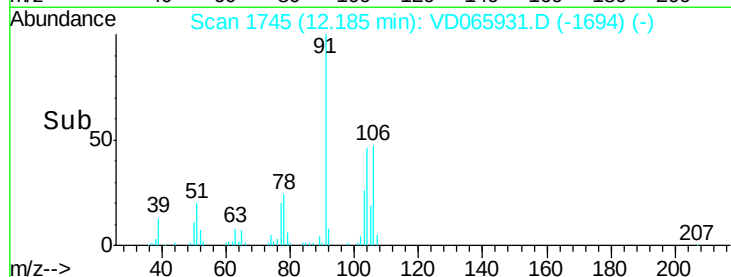
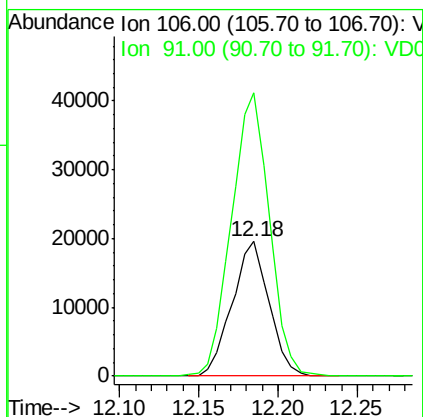
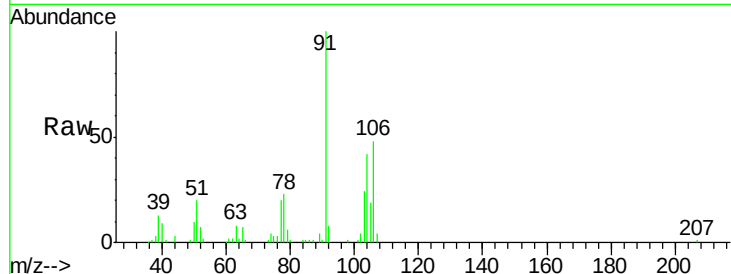
#69
o-Xylene
Concen: 4.191 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		31570		
91	216.5	104.1	312.2		

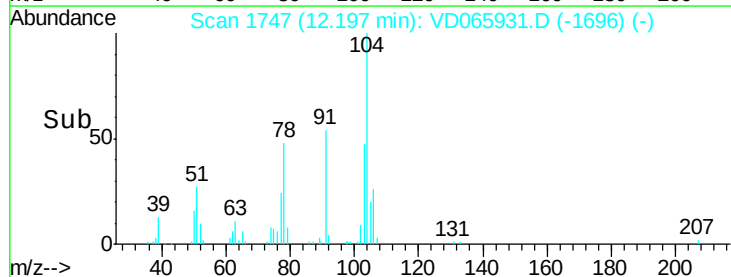
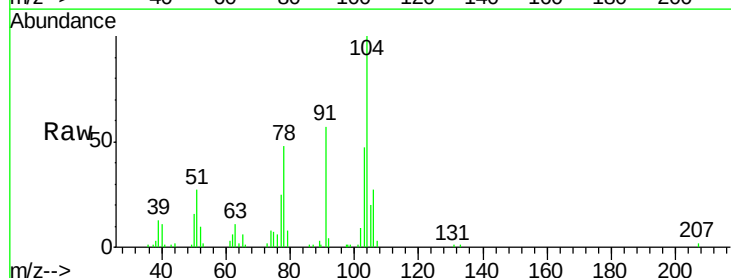
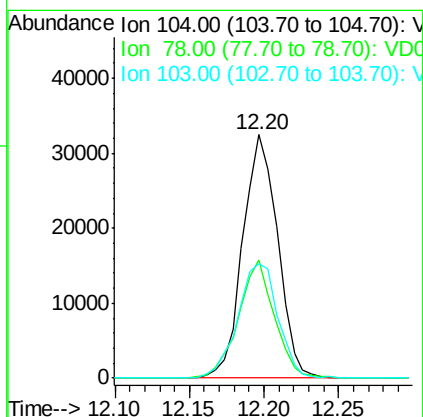
Manual Integrations
APPROVED

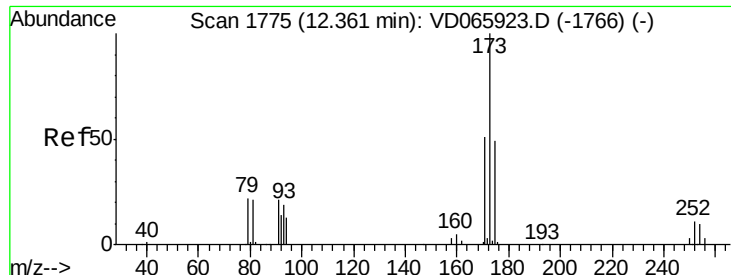
MMDadoda
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#70
Styrene
Concen: 4.033 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		52449		
78	50.0	38.8	58.2		
103	54.0	43.6	65.4		





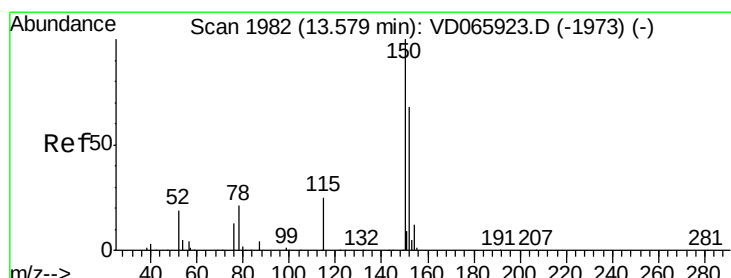
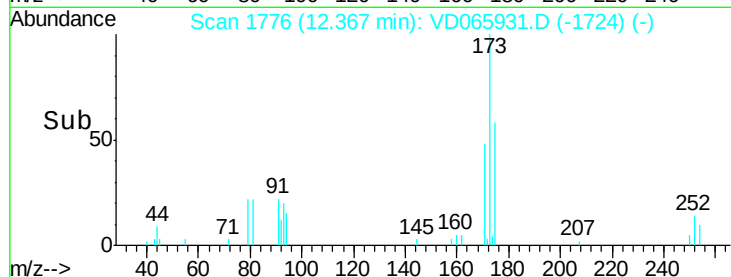
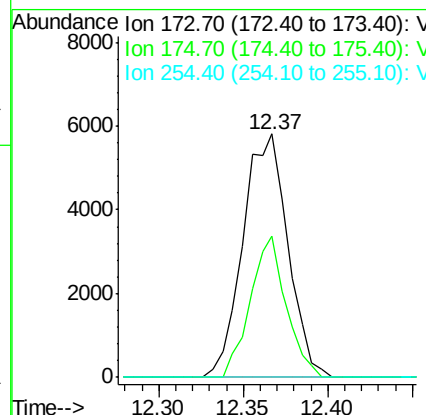
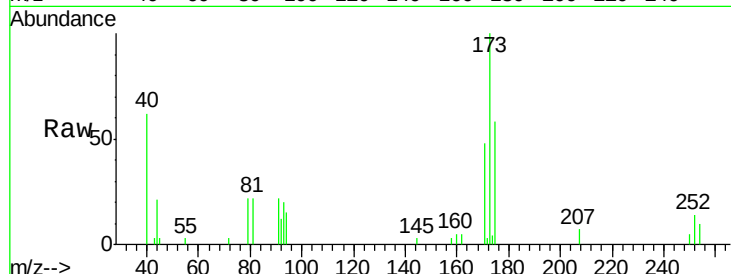
#71
Bromoform
Concen: 4.135 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.3	24.2	72.6
254	0.0	0.0	0.0

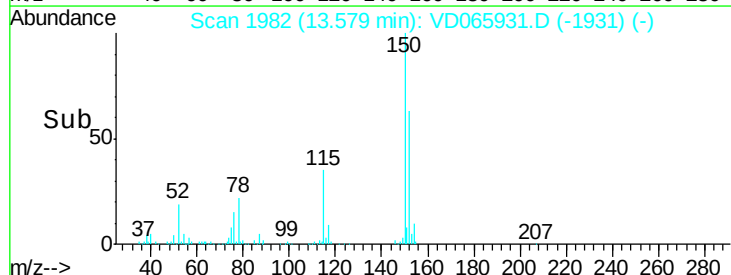
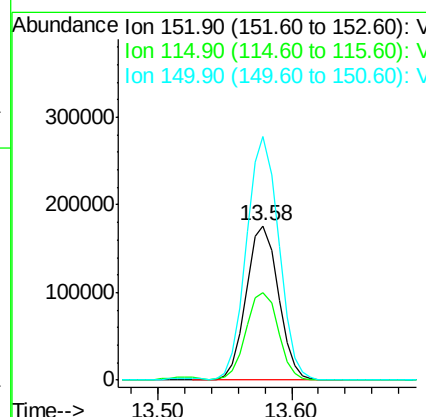
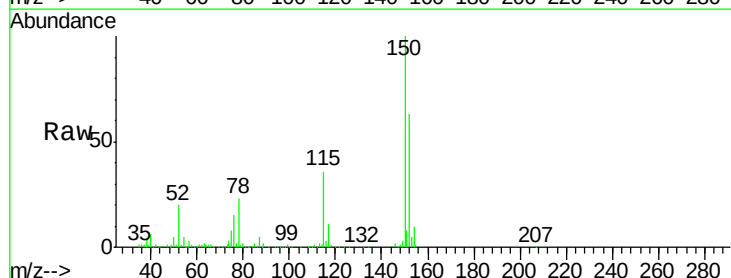
Manual Integrations
APPROVED

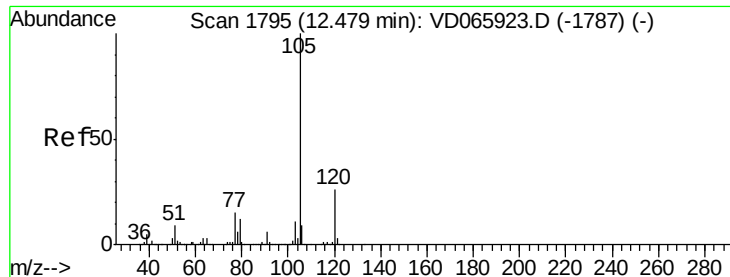
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	27.8	83.3
150	158.3	0.0	347.2





#73

Isopropylbenzene

Concen: 4.084 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 105 Resp: 83627

Ion Ratio Lower Upper

105 100

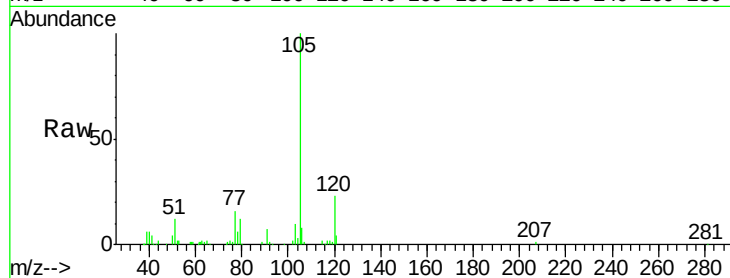
120 26.6 13.3 39.8

Manual Integrations

APPROVED

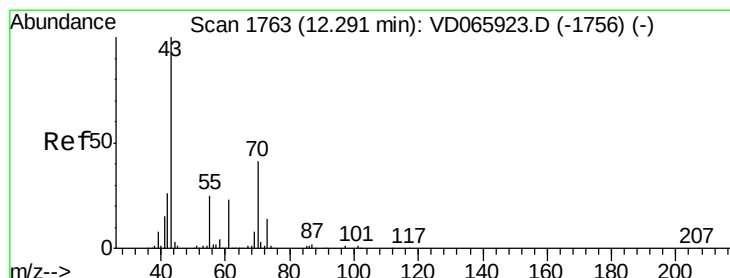
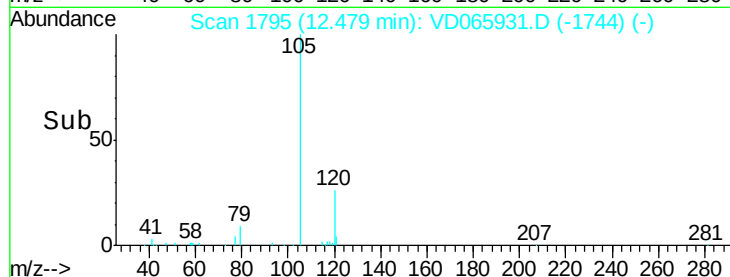
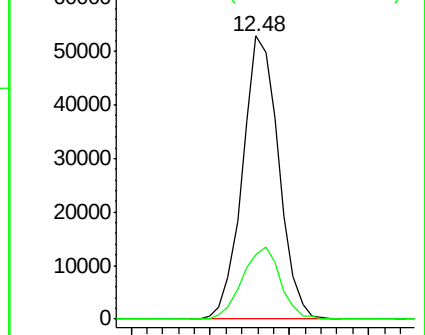
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.094 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion: 43 Resp: 18813

Ion Ratio Lower Upper

43 100

70 41.7 33.6 50.4

55 24.0 20.1 30.1

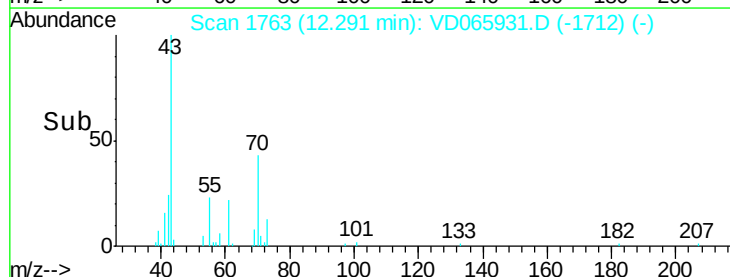
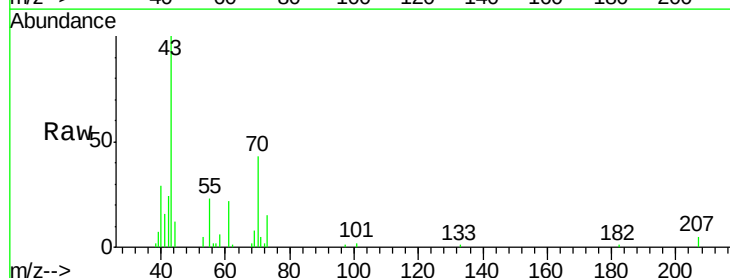
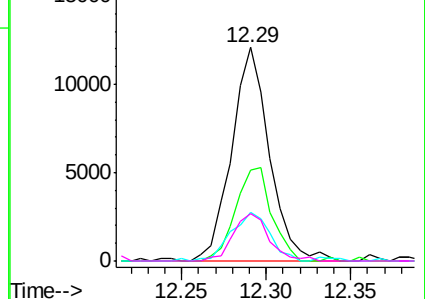
61 21.0 18.9 28.3

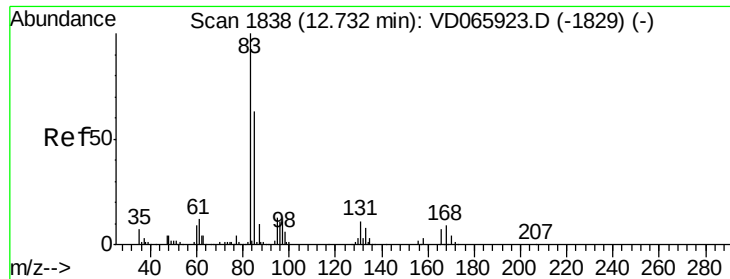
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 4.335 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 83 Resp: 14736

Ion Ratio Lower Upper

83 100

131 10.1 5.6 16.8

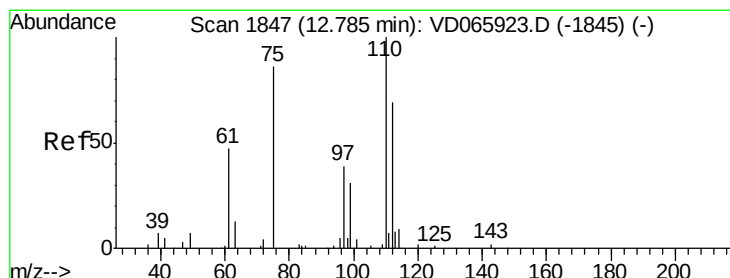
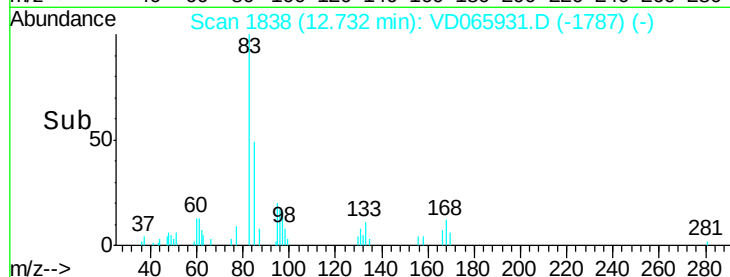
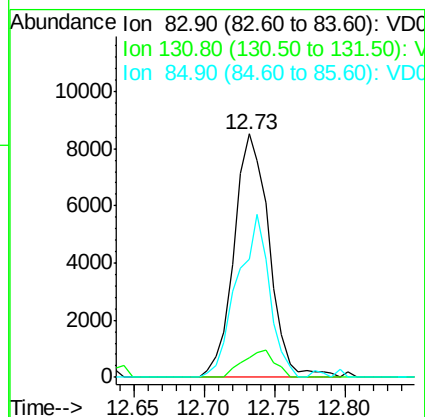
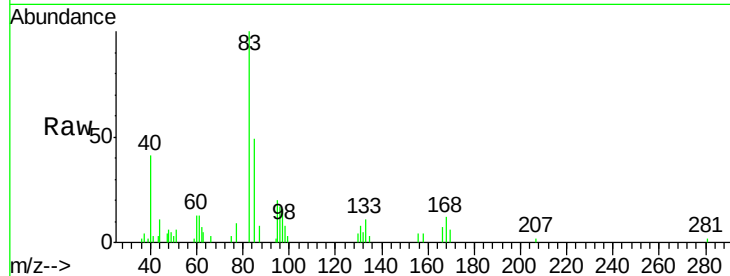
85 61.7 32.6 98.0

Manual Integrations

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#76

1,2,3-Trichloropropane

Concen: 3.918 ug/l m

RT: 12.78 min Scan# 1846

Delta R.T. -0.01 min

Lab File: VD065931.D

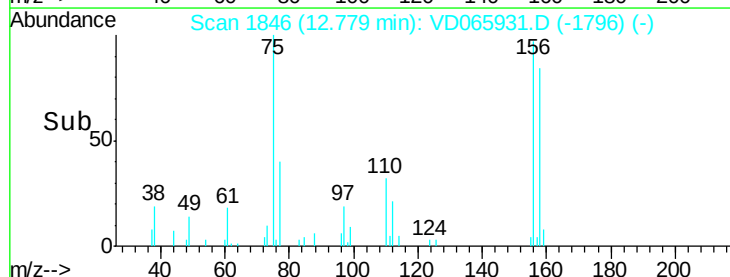
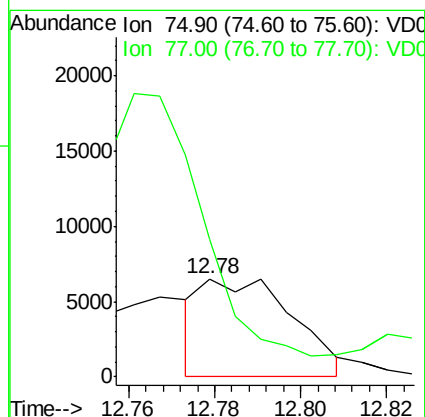
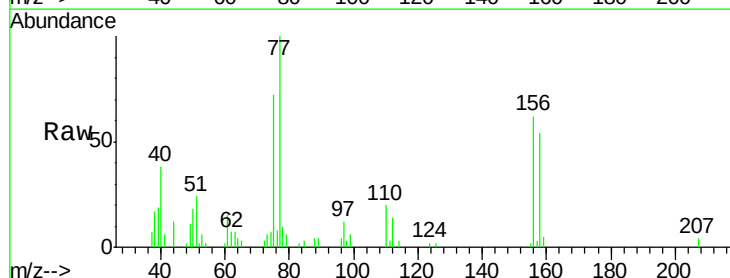
Acq: 07 Jul 2020 19:59

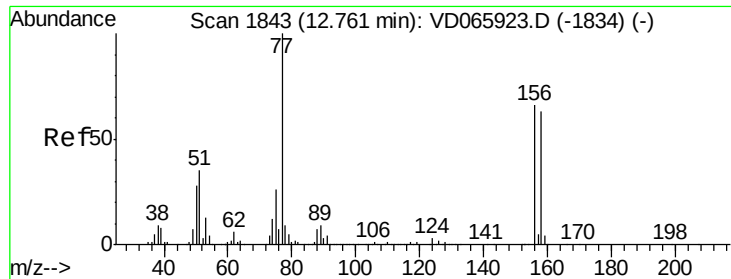
Tgt Ion: 75 Resp: 9643

Ion Ratio Lower Upper

75 100

77 380.2 0.0 0.0#





#77

Bromobenzene

Concen: 4.377 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

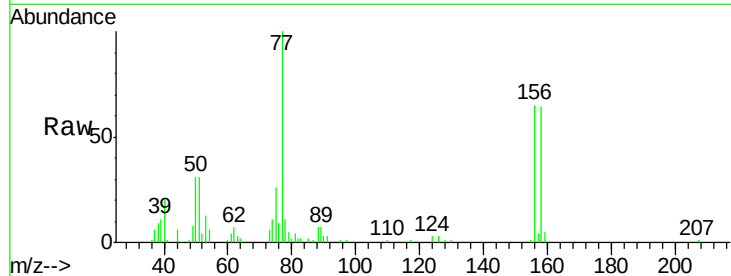
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	168.6	85.0	255.0	
158	94.8	49.0	147.0	

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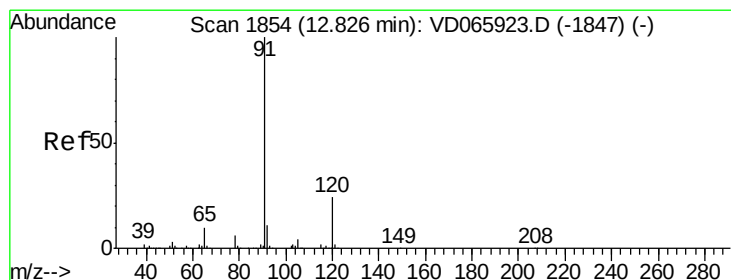
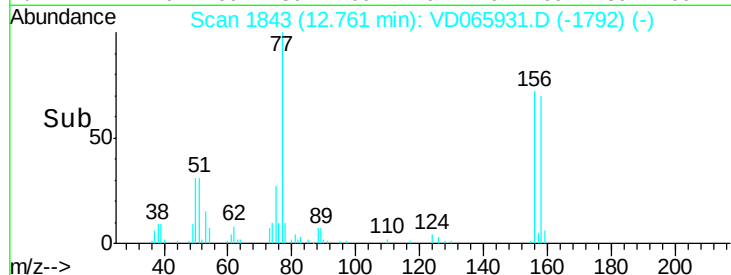
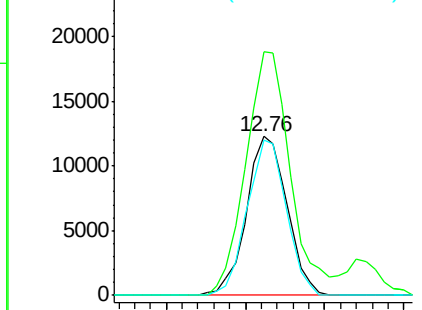


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.194 ug/l

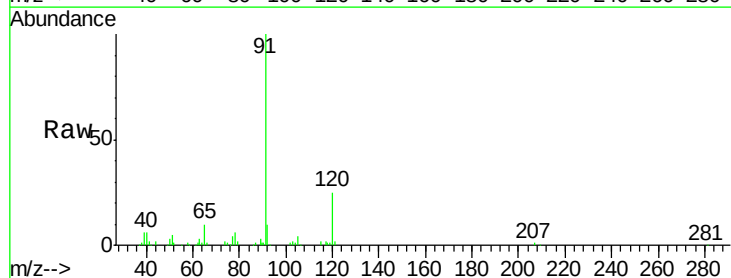
RT: 12.82 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

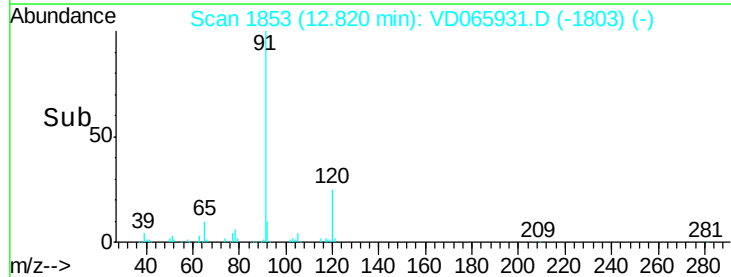
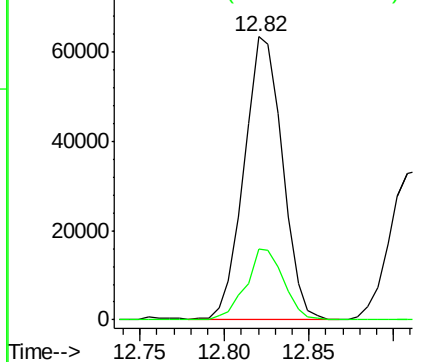
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	24.5	11.8	35.4	

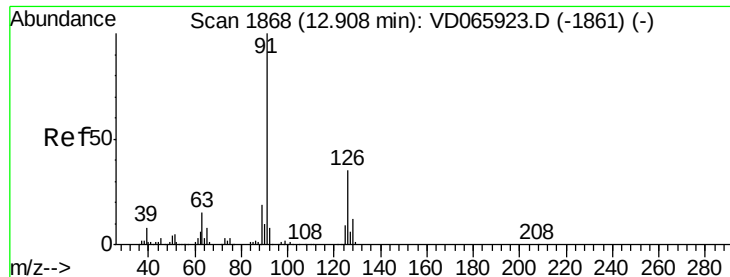


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.332 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion: 91 Resp: 59001

Ion Ratio Lower Upper

91 100

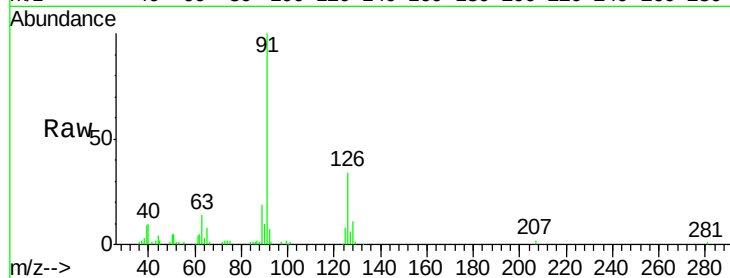
126 34.1 17.6 52.8

Manual Integrations

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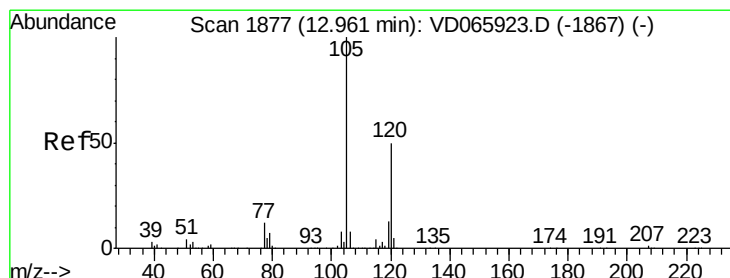
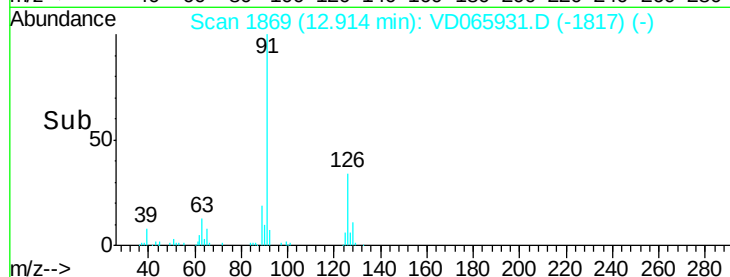
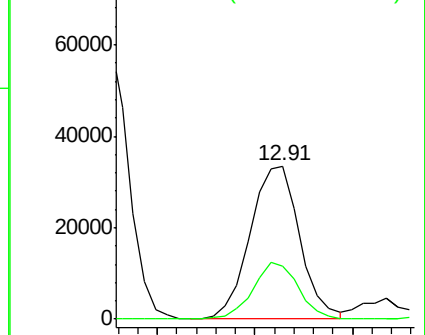
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Abundance Ion 91.00 (90.70 to 91.70): VD065931.D (-1861) (-)

Ion 125.90 (125.60 to 126.60): VD065931.D (-1861) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.242 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD065931.D

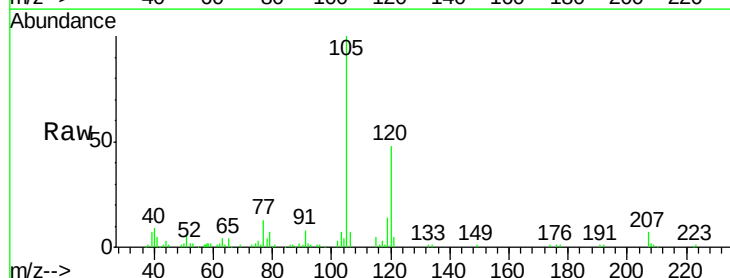
Acq: 07 Jul 2020 19:59

Tgt Ion:105 Resp: 71052

Ion Ratio Lower Upper

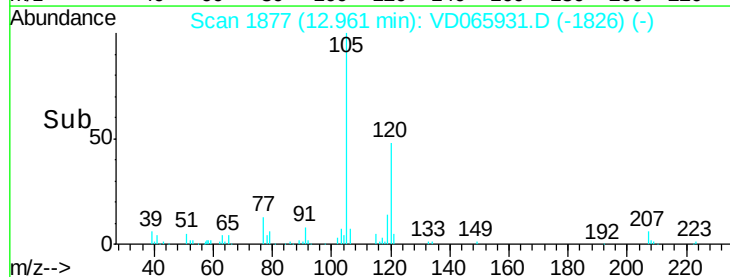
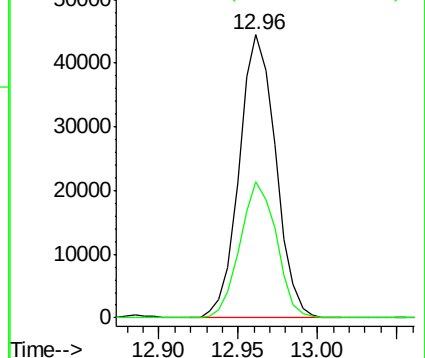
105 100

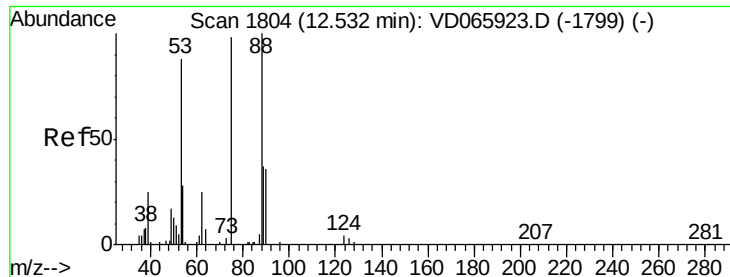
120 47.9 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): VD065931.D (-1826) (-)

Ion 120.00 (119.70 to 120.70): VD065931.D (-1826) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 4.271 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

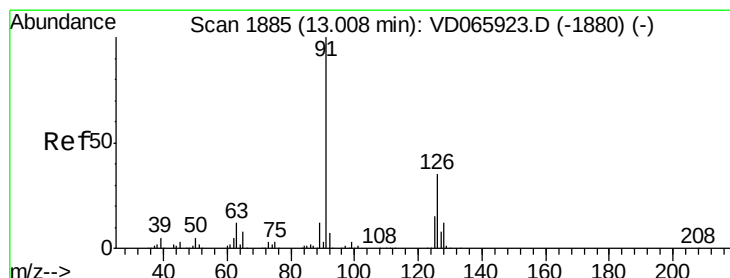
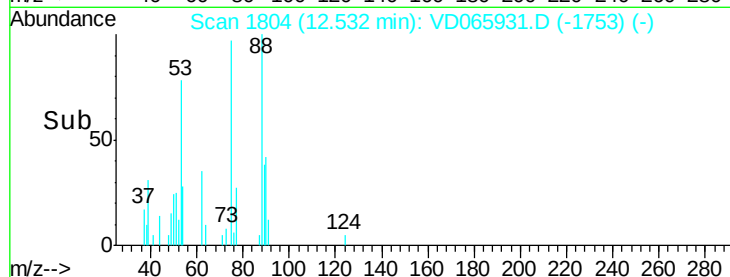
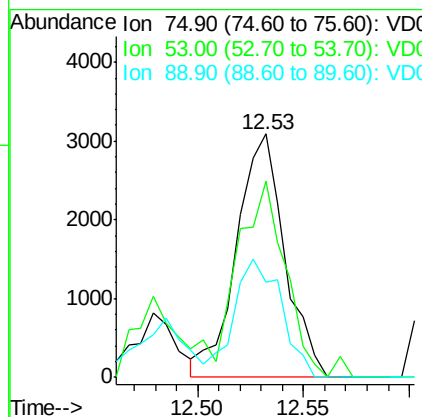
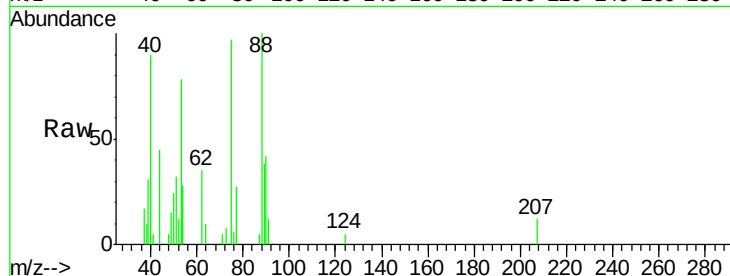
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	75	Resp:	4892
Ion	Ratio	Lower	Upper
75	100		
53	77.6	75.8	113.8
89	47.6	37.5	56.3

Manual Integrations
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#82

4-Chlorotoluene

Concen: 4.427 ug/l

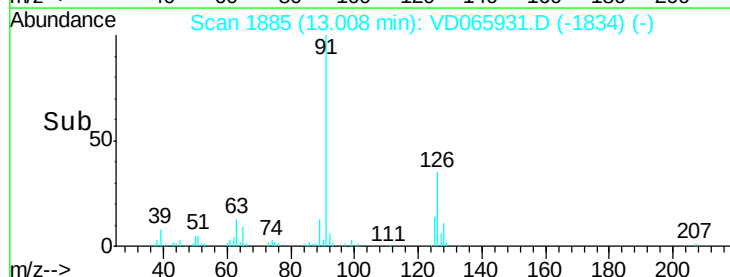
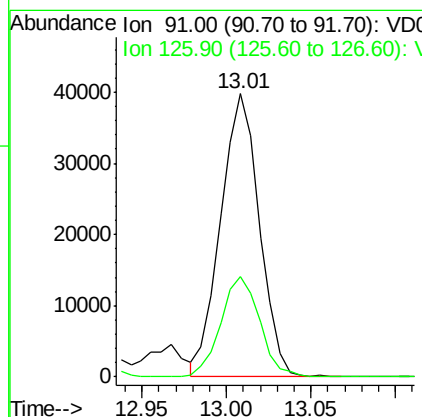
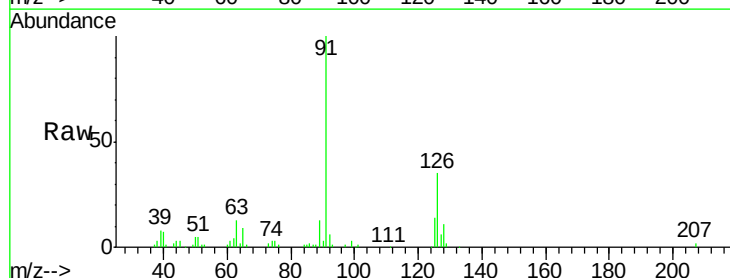
RT: 13.01 min Scan# 1885

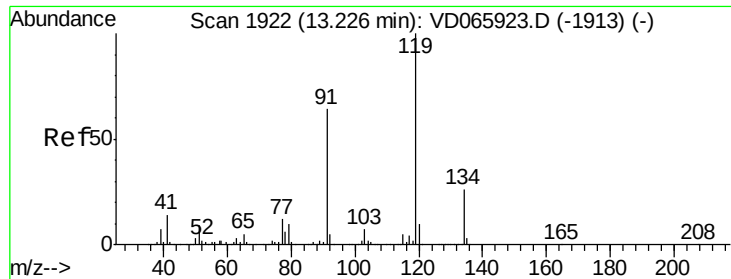
Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	91	Resp:	63261
Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.3	51.7





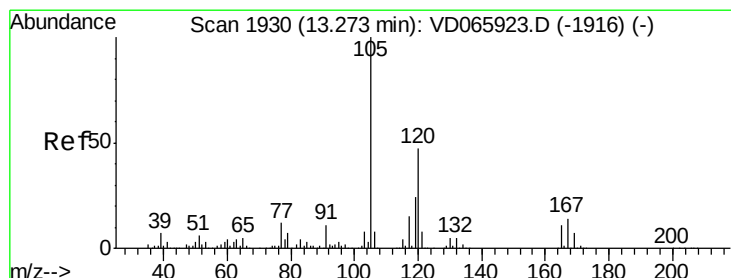
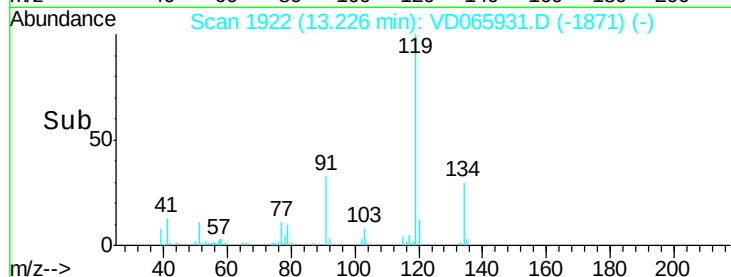
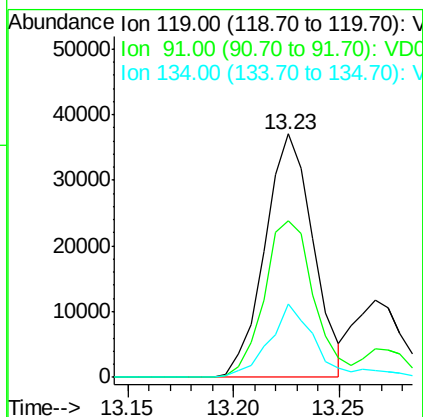
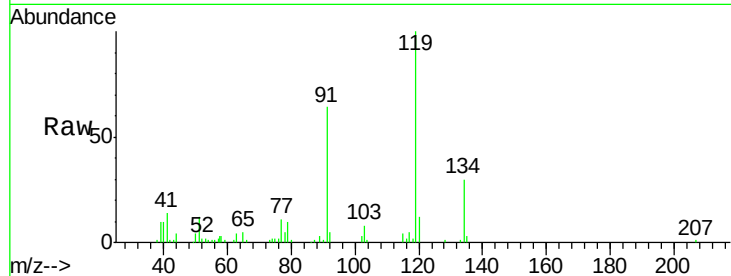
#83
tert-Butylbenzene
Concen: 4.139 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.4	97.2
134	29.7	14.1	42.4

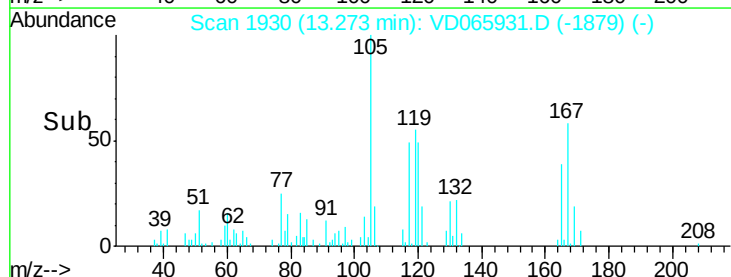
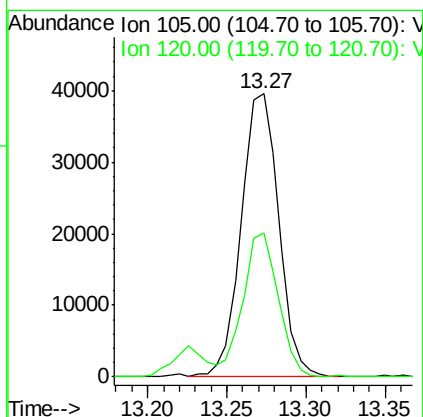
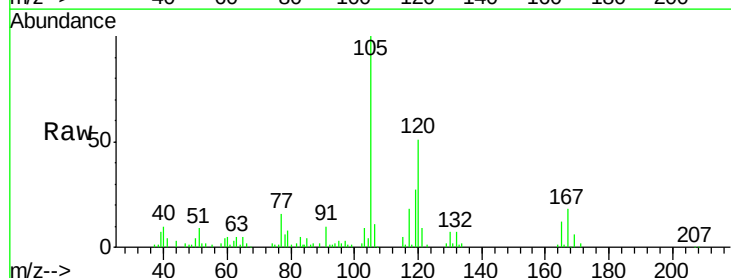
Manual Integrations
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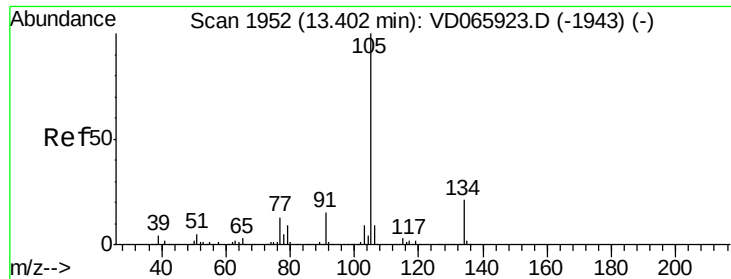
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 3.907 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.2	69.5





#85

sec-Butylbenzene

Concen: 4.103 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:105 Resp: 82981

Ion Ratio Lower Upper

105 100

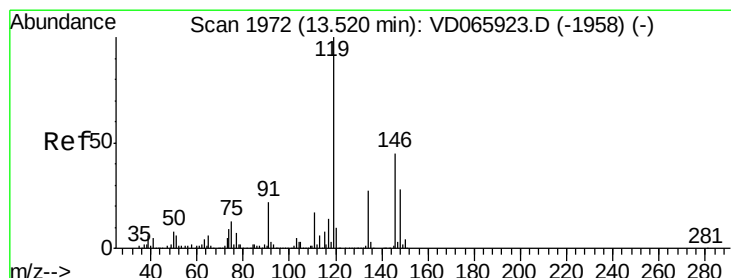
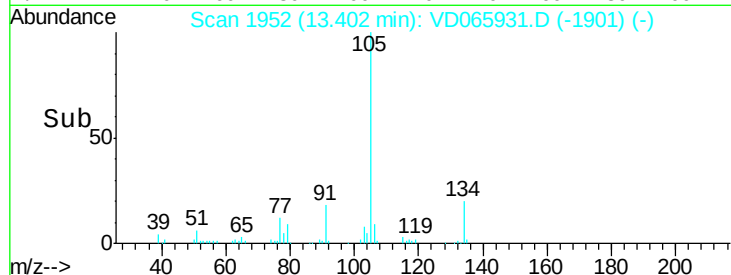
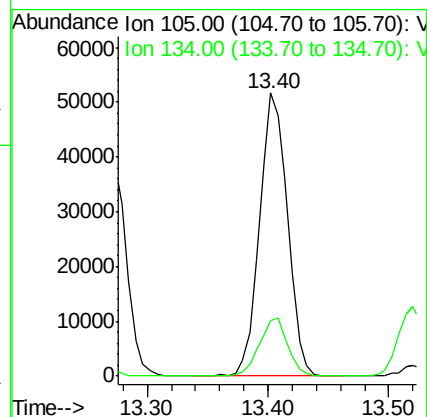
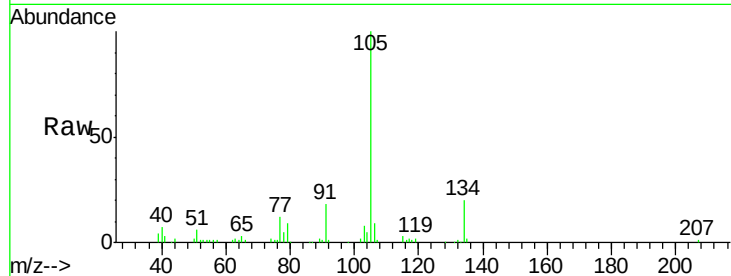
134 21.0 10.4 31.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 4.163 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

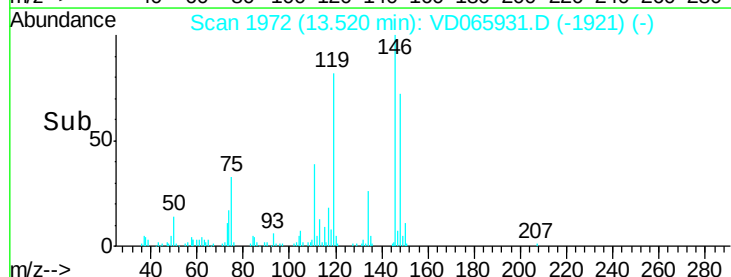
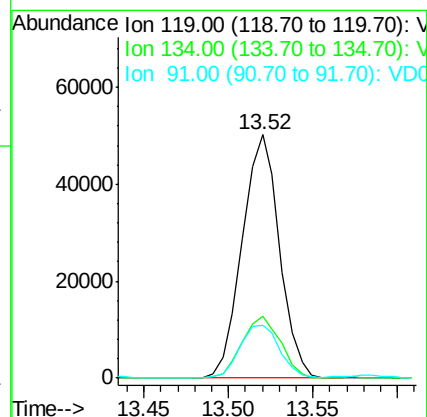
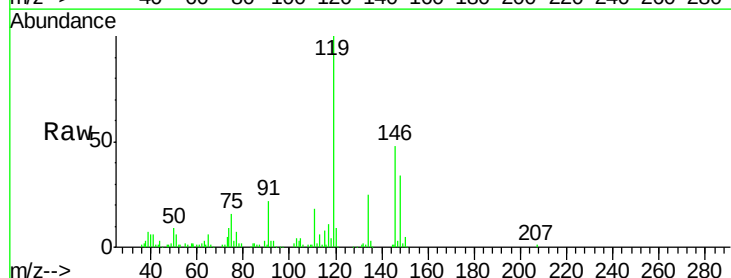
Tgt Ion:119 Resp: 77006

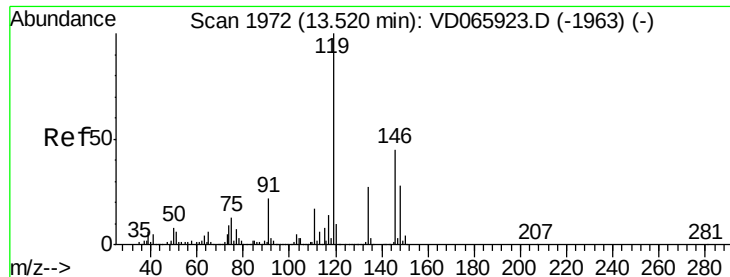
Ion Ratio Lower Upper

119 100

134 26.3 13.4 40.1

91 23.3 11.3 33.8





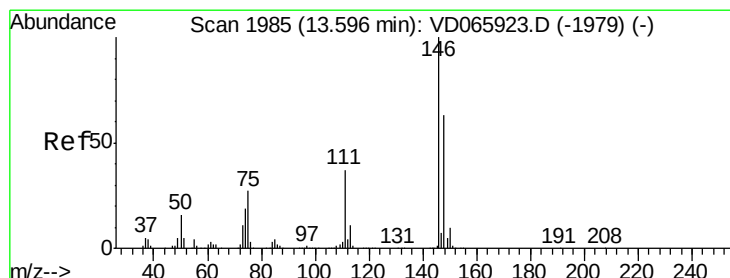
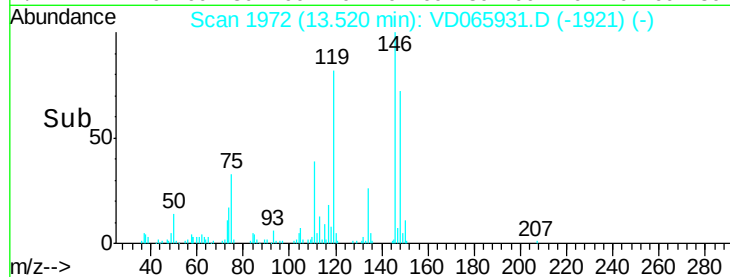
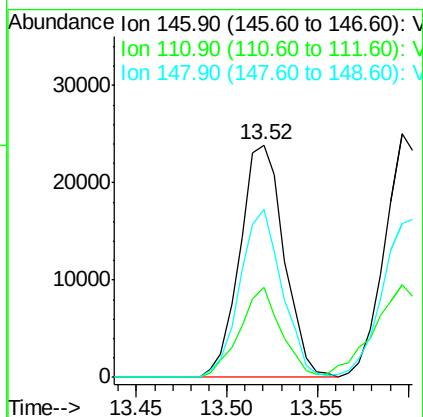
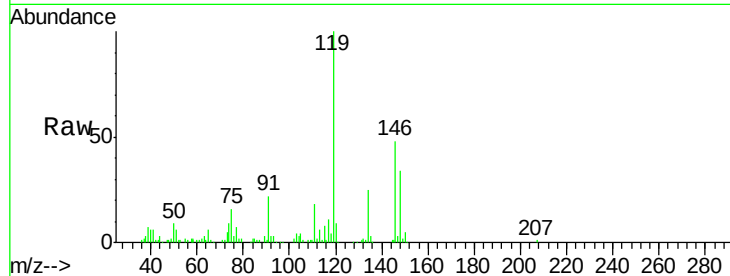
#87
 1,3-Dichlorobenzene
 Concen: 4.343 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	19.3	57.8
148	69.6	32.0	96.0

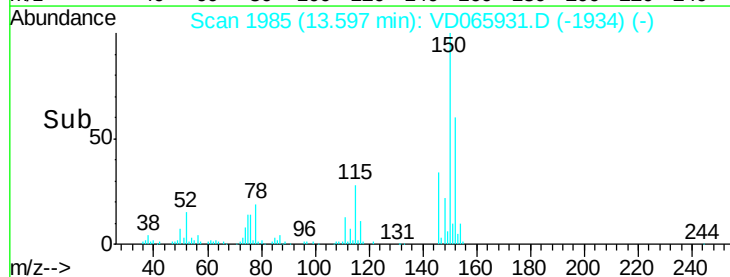
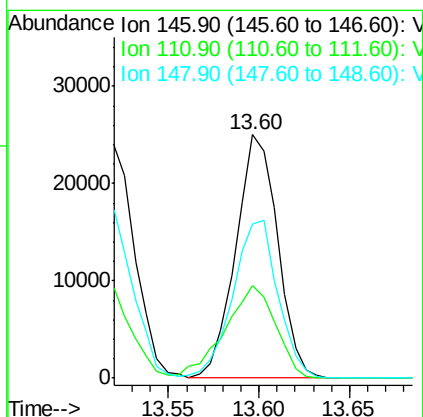
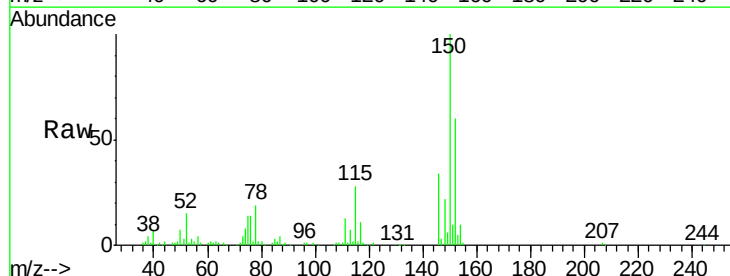
Manual Integrations
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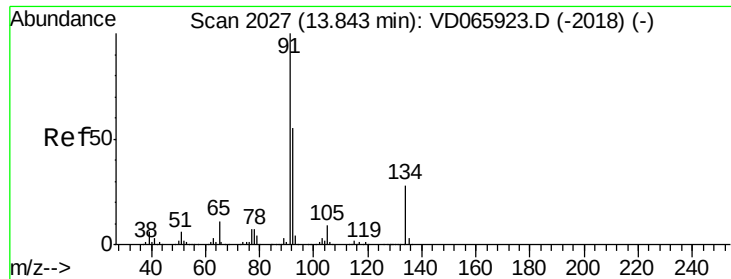
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#88
 1,4-Dichlorobenzene
 Concen: 4.341 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.1	18.9	56.7
148	69.6	32.1	96.3





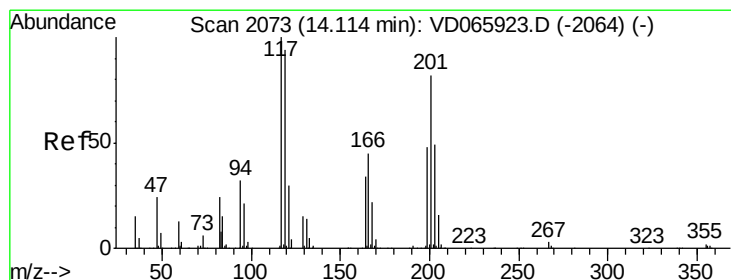
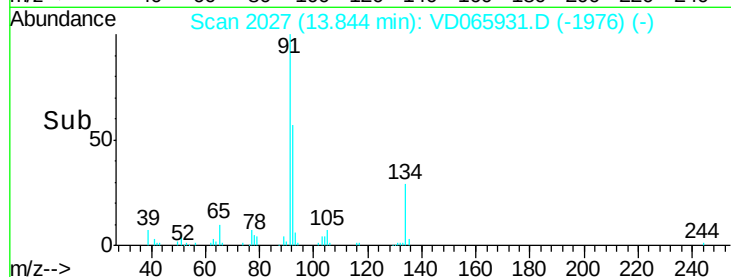
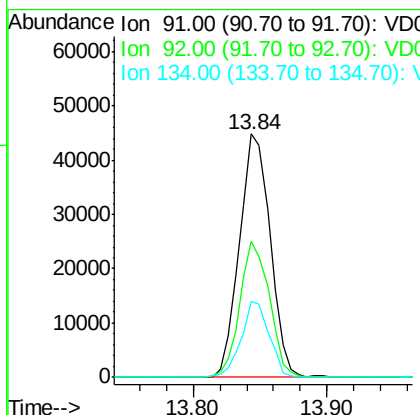
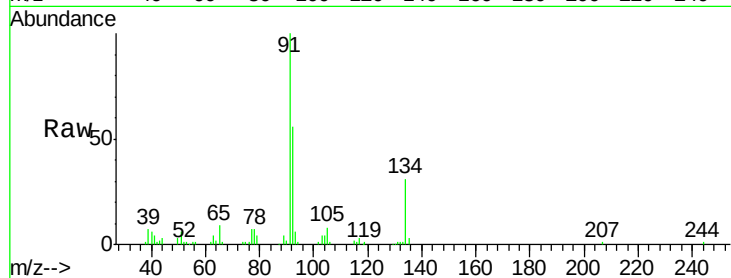
#89
n-Butylbenzene
Concen: 4.119 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.2	81.6
134	28.3	13.8	41.3

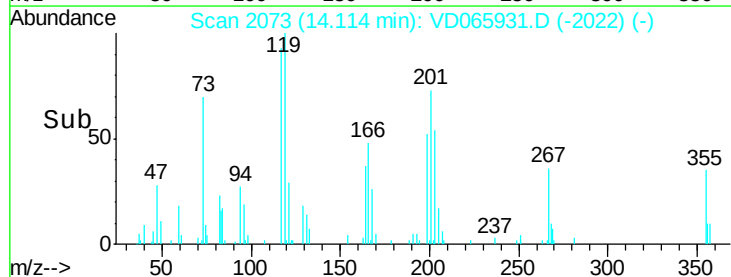
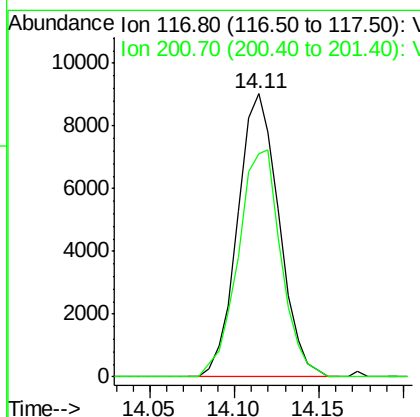
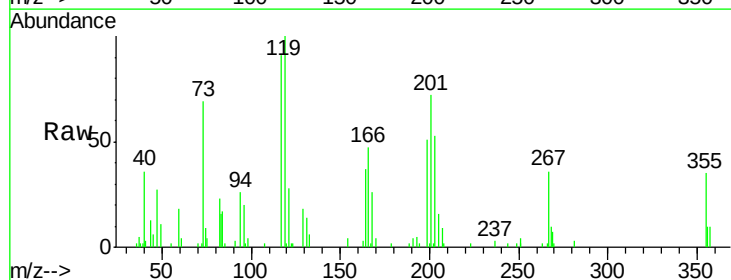
Manual Integrations
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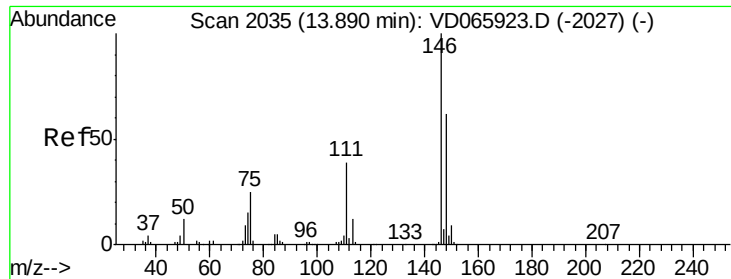
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#90
Hexachloroethane
Concen: 4.135 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD065931.D
Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.3	40.0	120.0





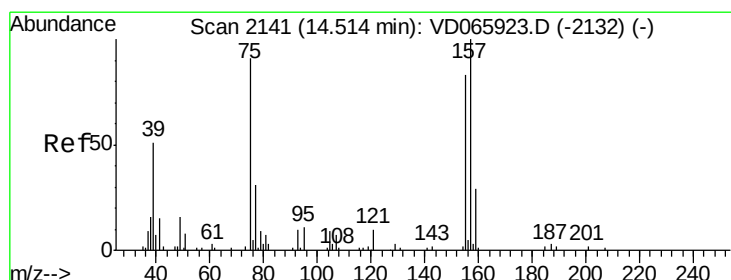
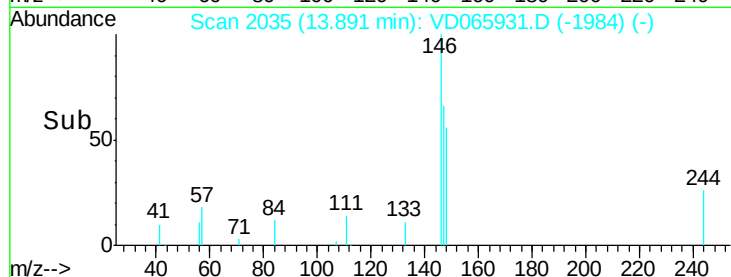
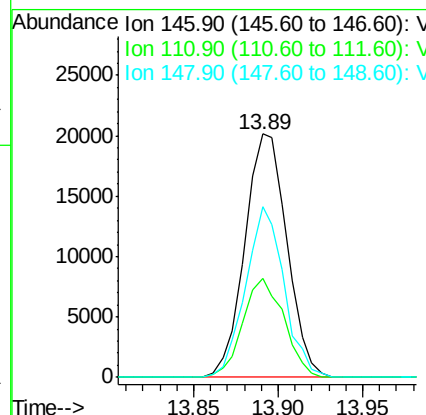
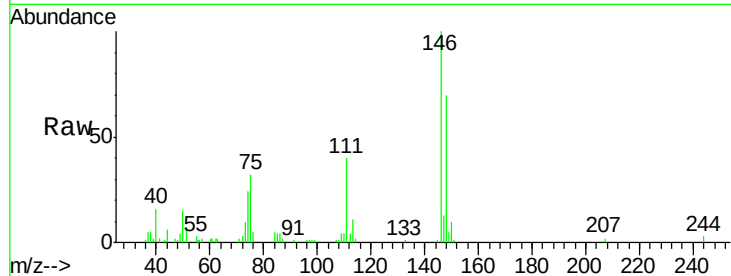
#91
 1,2-Dichlorobenzene
 Concen: 4.302 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.0
148	64.3	32.5	97.5

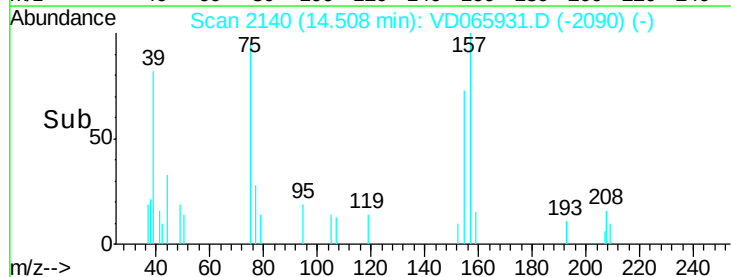
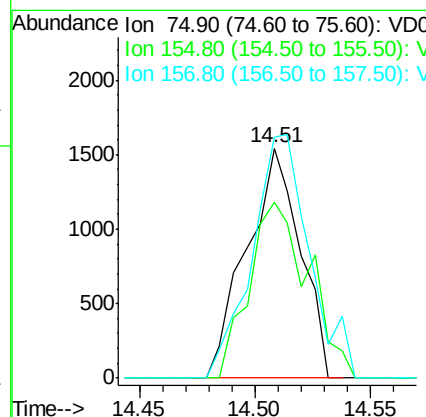
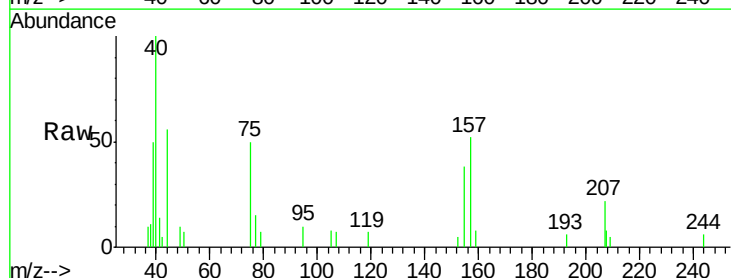
Manual Integrations
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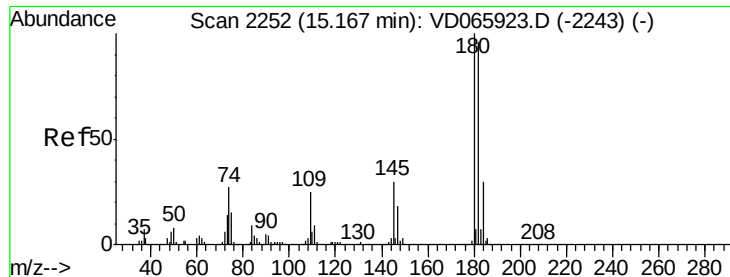
MMDadoda
 7/8/2020 12:05:17 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.382 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. -0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.3	45.3	135.8
157	113.7	56.9	170.6





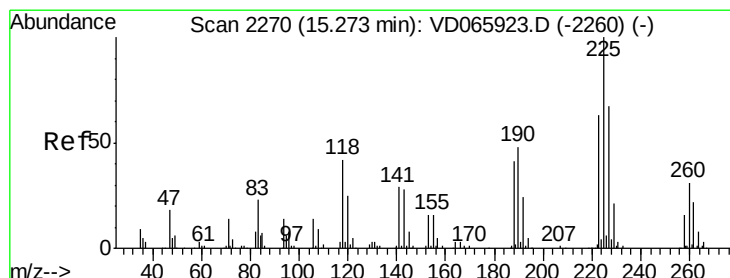
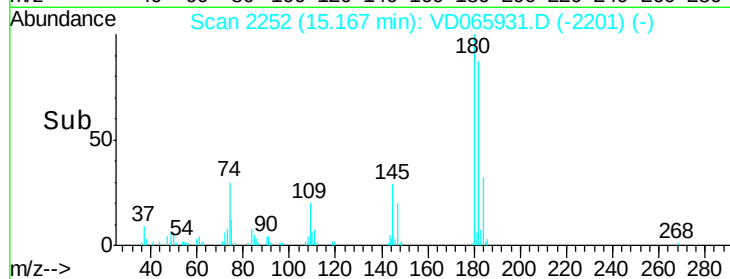
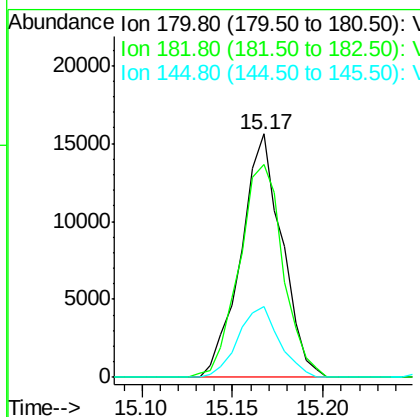
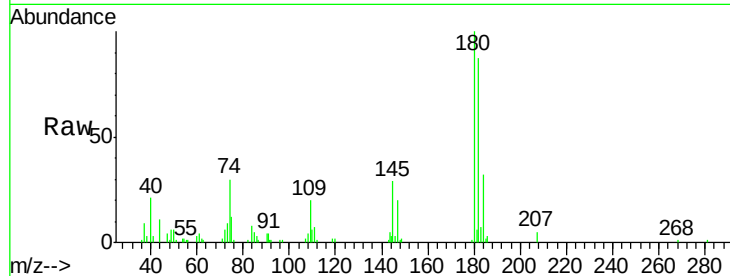
#93
 1,2,4-Trichlorobenzene
 Concen: 4.246 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.5	145.6
145	29.2	15.0	45.1

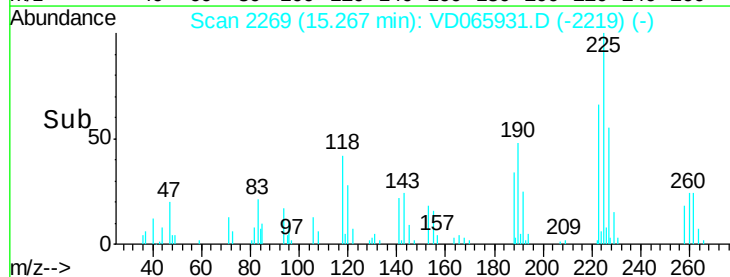
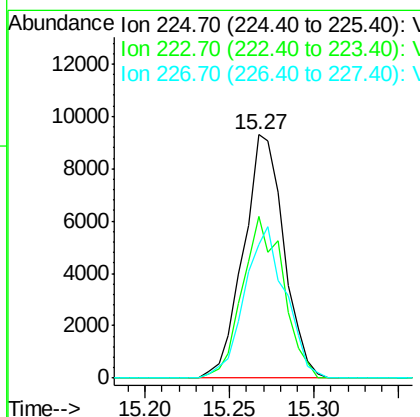
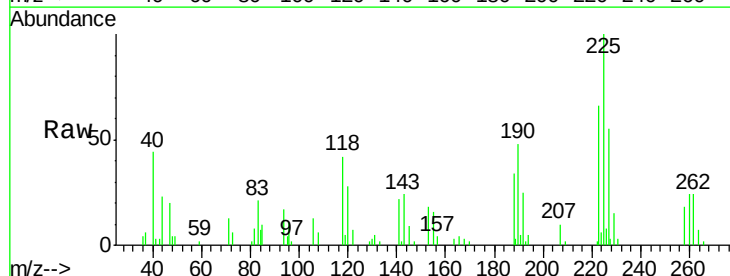
Manual Integrations
 APPROVED

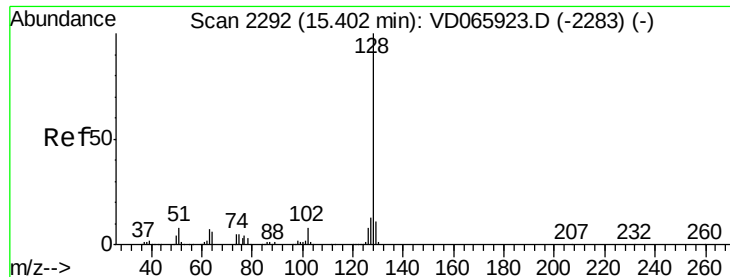
MMDadoda
 7/8/2020 12:05:17 PM



#94
 Hexachlorobutadiene
 Concen: 4.436 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: VD065931.D
 Acq: 07 Jul 2020 19:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.6	31.1	93.2
227	62.9	31.6	95.0





#95

Naphthalene

Concen: 3.990 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Instrument :

MSVOA_D

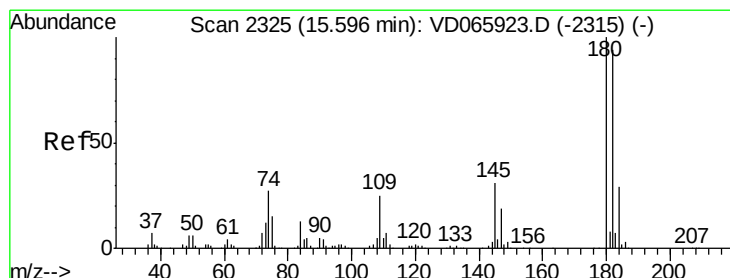
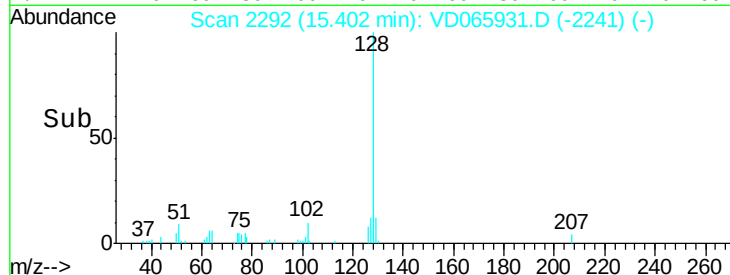
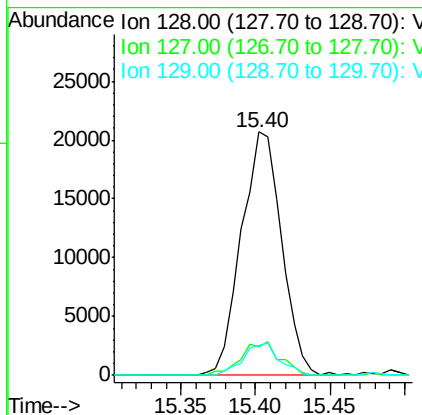
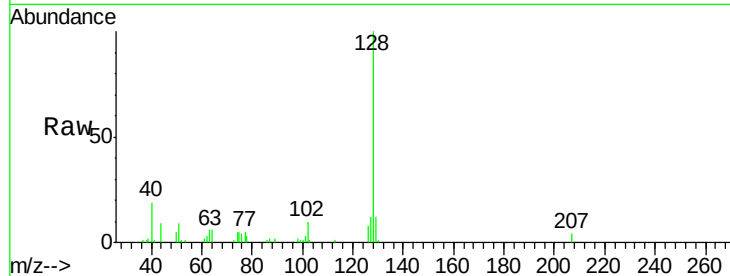
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2020

Tot Ion:	128	Resp:	38742
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.8	16.2
129	11.7	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/8/2020 12:05:17 PM



#96

1,2,3-Trichlorobenzene

Concen: 4.334 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.01 min

Lab File: VD065931.D

Acq: 07 Jul 2020 19:59

Tgt Ion:	180	Resp:	21640
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.6	142.8
145	27.5	16.1	48.2

