

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030520\
 Data File : VY001872.D
 Acq On : 05 Mar 2020 11:38
 Operator : SY/MD
 Sample : L1161-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/6/2020 11:16:51 AM

Quant Time: Mar 06 05:52:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	168450	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	303637	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	269863	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.42	152	123548	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	91934	51.12	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.24%	
35) Dibromofluoromethane	7.74	113	84830	51.16	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.32%	
50) Toluene-d8	10.19	98	359852	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.49	95	122478	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	4586	2.949	ug/l	88
3) Chloromethane	2.12	50	7426	3.542	ug/l	95
4) Vinyl Chloride	2.26	62	5982	2.805	ug/l #	87
5) Bromomethane	2.66	94	4715	3.333	ug/l	87
6) Chloroethane	2.81	64	3968	2.962	ug/l	96
7) Trichlorofluoromethane	3.14	101	8441	2.919	ug/l	93
8) Diethyl Ether	3.55	74	3005	2.636	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.92	101	4916	2.643	ug/l	92
10) Methyl Iodide	4.10	142	4970	2.311	ug/l	100
11) Tert butyl alcohol	4.98	59	2800	12.755	ug/l #	83
12) 1,1-Dichloroethene	3.90	96	5289	2.824	ug/l	90
13) Acrolein	3.75	56	3116	12.331	ug/l	86
14) Allyl chloride	4.50	41	9073	2.733	ug/l	98
15) Acrylonitrile	5.19	53	7970	13.086	ug/l	98
16) Acetone	3.97	43	7009	13.382	ug/l	97
17) Carbon Disulfide	4.21	76	16842	2.675	ug/l	99
18) Methyl Acetate	4.51	43	3869	2.875	ug/l	95
19) Methyl tert-butyl Ether	5.24	73	12734	2.509	ug/l #	77
20) Methylene Chloride	4.74	84	13358	5.951	ug/l	97
21) trans-1,2-Dichloroethene	5.24	96	5716	2.689	ug/l	87
22) Diisopropyl ether	6.14	45	17729	2.605	ug/l #	88
23) Vinyl Acetate	6.08	43	56302	12.619	ug/l	96
24) 1,1-Dichloroethane	6.04	63	10007	2.715	ug/l	94
25) 2-Butanone	7.00	43	9865	12.385	ug/l	92
26) 2,2-Dichloropropane	7.00	77	7801	2.579	ug/l	99
27) cis-1,2-Dichloroethene	7.00	96	6310	2.729	ug/l	100
28) Bromochloromethane	7.36	49	4449	2.678	ug/l	99
29) Tetrahydrofuran	7.36	42	7199	13.610	ug/l	98
30) Chloroform	7.53	83	9593	2.770	ug/l	93
31) Cyclohexane	7.80	56	13276	3.360	ug/l #	68
32) 1,1,1-Trichloroethane	7.72	97	7744	2.653	ug/l	95
36) 1,1-Dichloropropene	7.93	75	7890	2.700	ug/l	98
37) Ethyl Acetate	7.10	43	4460	2.626	ug/l	98
38) Carbon Tetrachloride	7.92	117	6701	2.685	ug/l #	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	10664	2.752	ug/l	98
40) Benzene	8.18	78	23530	2.717	ug/l	99
41) Methacrylonitrile	7.33	41	2261	2.958	ug/l #	1
42) 1,2-Dichloroethane	8.26	62	6162	2.761	ug/l	98
43) Isopropyl Acetate	8.28	43	7943	2.470	ug/l	98
44) Trichloroethene	8.96	130	6327	3.000	ug/l	81
45) 1,2-Dichloropropane	9.22	63	5967	2.741	ug/l	89
46) Dibromomethane	9.32	93	2988	2.663	ug/l	99
47) Bromodichloromethane	9.50	83	6710	2.571	ug/l	98
48) Methyl methacrylate	9.30	41	3920	2.748	ug/l	97
49) 1,4-Dioxane	9.30	88	706	45.925	ug/l #	95
51) 4-Methyl-2-Pentanone	10.08	43	20902	12.622	ug/l	99
52) Toluene	10.25	92	14659	2.786	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	7041	2.476	ug/l	89
54) cis-1,3-Dichloropropene	9.94	75	8597	2.540	ug/l	96
55) 1,1,2-Trichloroethane	10.66	97	4401	2.680	ug/l	89
56) Ethyl methacrylate	10.52	69	5682	2.361	ug/l #	90
57) 1,3-Dichloropropane	10.80	76	7587	2.592	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.79	63	10383	10.881	ug/l	99
59) 2-Hexanone	10.84	43	15059	12.740	ug/l	98
60) Dibromochloromethane	10.99	129	4126	2.385	ug/l	98
61) 1,2-Dibromoethane	11.10	107	3954	2.542	ug/l	95
64) Tetrachloroethene	10.72	164	4857	2.870	ug/l	90
65) Chlorobenzene	11.52	112	15183	2.824	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.60	131	4641	2.632	ug/l	97
67) Ethyl Benzene	11.60	91	26724	2.665	ug/l	98
68) m/p-Xylenes	11.70	106	19689	5.310	ug/l	97
69) o-Xylene	12.03	106	9325	2.668	ug/l	100
70) Styrene	12.05	104	15737	2.629	ug/l	99
71) Bromoform	12.20	173	2477	2.590	ug/l #	92
73) Isopropylbenzene	12.33	105	25945	2.751	ug/l	100
74) N-amyl acetate	12.14	43	7250	2.501	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.59	83	4975	2.446	ug/l	97
76) 1,2,3-Trichloropropane	12.64	75	3157m	2.154	ug/l	
77) Bromobenzene	12.61	156	5567	2.786	ug/l	96
78) n-propylbenzene	12.67	91	31929	2.744	ug/l	100
79) 2-Chlorotoluene	12.76	91	17509	2.724	ug/l	96
80) 1,3,5-Trimethylbenzene	12.81	105	21206	2.731	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	1579m	2.176	ug/l	
82) 4-Chlorotoluene	12.86	91	19023	2.842	ug/l	100
83) tert-Butylbenzene	13.08	119	17270	2.678	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	20688	2.685	ug/l	99
85) sec-Butylbenzene	13.25	105	25611	2.694	ug/l	98
86) p-Isopropyltoluene	13.37	119	22087	2.694	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	10911	2.786	ug/l	95
88) 1,4-Dichlorobenzene	13.45	146	11323	2.850	ug/l	86
89) n-Butylbenzene	13.70	91	22587	2.655	ug/l	97
90) Hexachloroethane	13.96	117	3879	2.508	ug/l	93
91) 1,2-Dichlorobenzene	13.74	146	10223	2.874	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.36	75	800	2.521	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	6886	2.985	ug/l	97
94) Hexachlorobutadiene	15.11	225	3223	2.866	ug/l	96
95) Naphthalene	15.24	128	14634	2.674	ug/l	99
96) 1,2,3-Trichlorobenzene	15.42	180	6447	3.172	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 168450

Ion Ratio Lower Upper

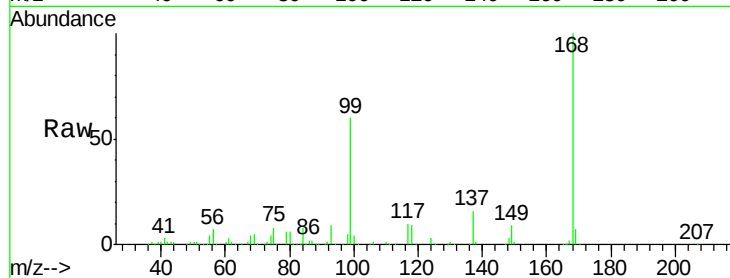
168 100

99 60.5 46.7 70.1

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Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)

7.80

80000

60000

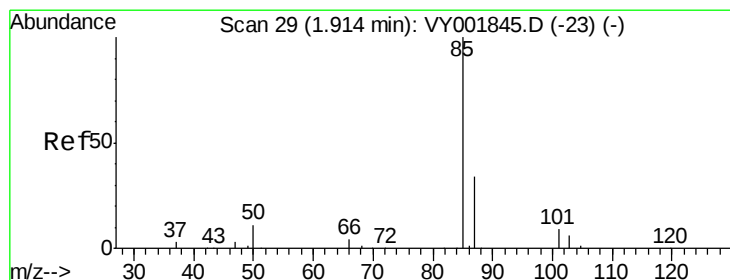
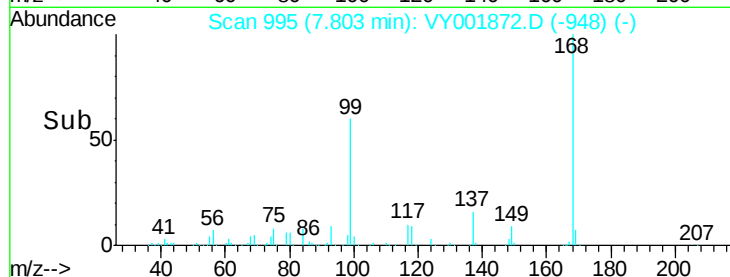
40000

20000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 2.949 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.01 min

Lab File: VY001872.D

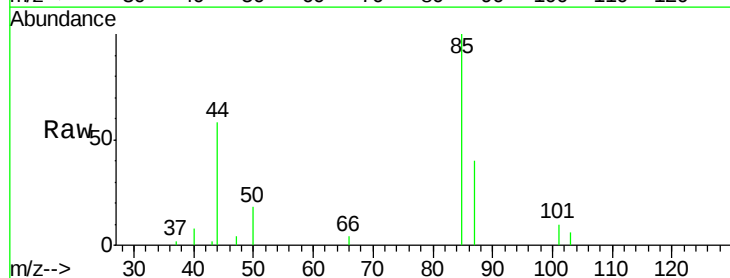
Acq: 05 Mar 2020 11:38

Tgt Ion: 85 Resp: 4586

Ion Ratio Lower Upper

85 100

87 40.2 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VY001845.D (-23) (-)

Ion 86.90 (86.60 to 87.60): VY001845.D (-23) (-)

1.91

3000

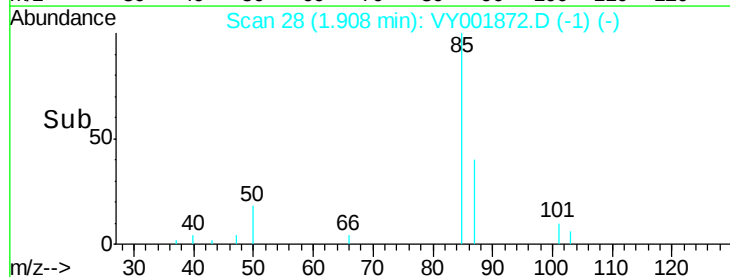
2000

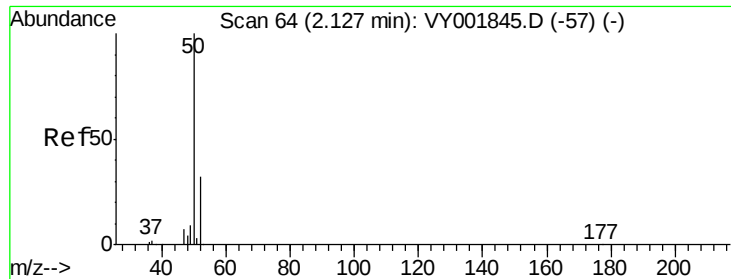
1000

0

1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 3.542 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 7426

Ion Ratio Lower Upper

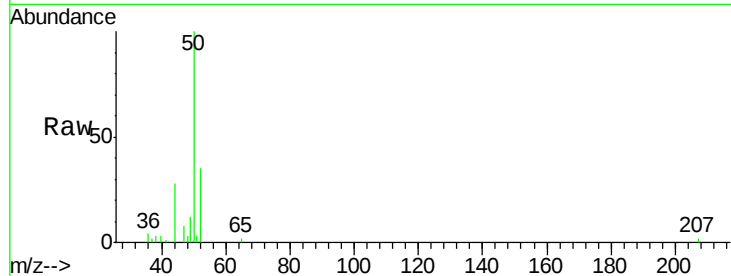
50 100

52 34.9 25.8 38.6

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Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0

2.12

5000

4000

3000

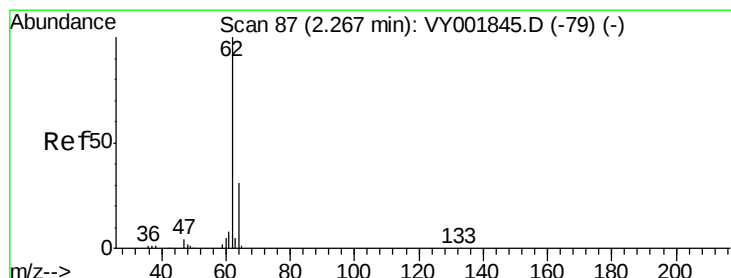
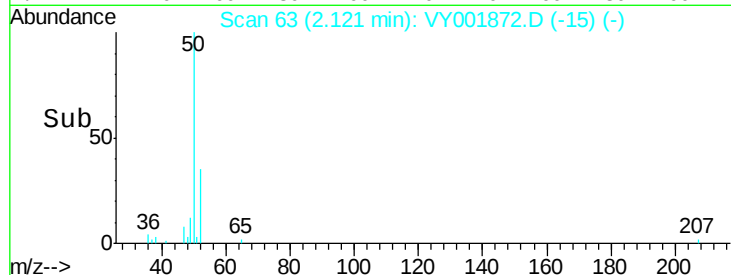
2000

1000

0

Time-->

2.05 2.10 2.15 2.20



#4

Vinyl Chloride

Concen: 2.805 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY001872.D

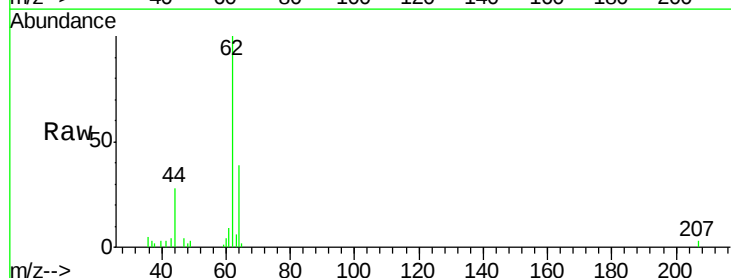
Acq: 05 Mar 2020 11:38

Tgt Ion: 62 Resp: 5982

Ion Ratio Lower Upper

62 100

64 38.6 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0

2.26

4000

3000

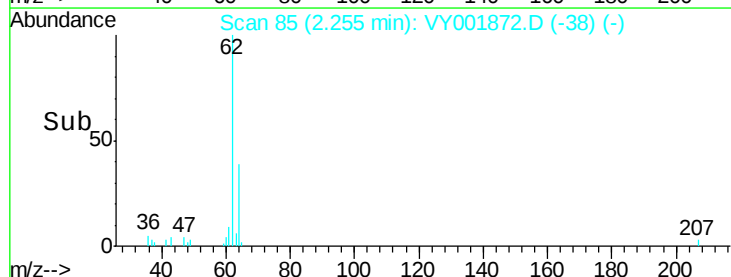
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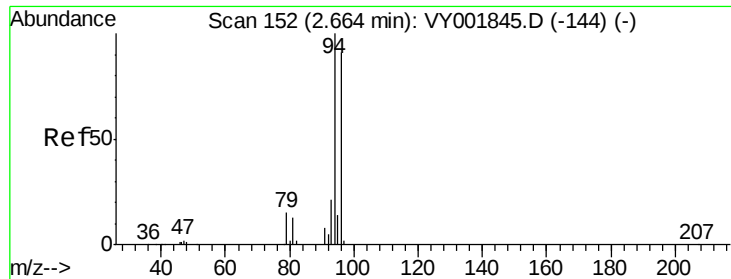
1000

0

Time-->

2.20 2.25 2.30 2.35





#5

Bromomethane

Concen: 3.333 ug/l

RT: 2.66 min Scan# 152

Delta R.T. 0.00 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 4715

Ion Ratio Lower Upper

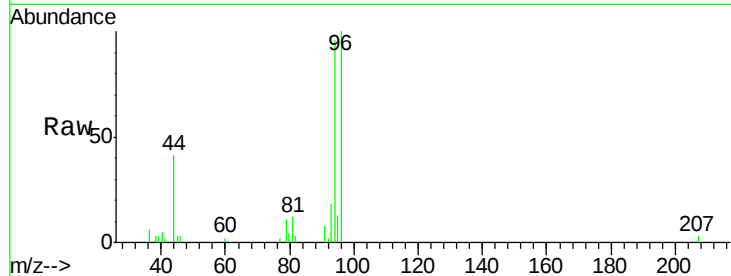
94 100

96 103.9 73.2 109.8

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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

3000

2500

2000

1500

1000

500

0

Time-->

2.55 2.60 2.65 2.70 2.75

2.66

2.66

2.66

2.66

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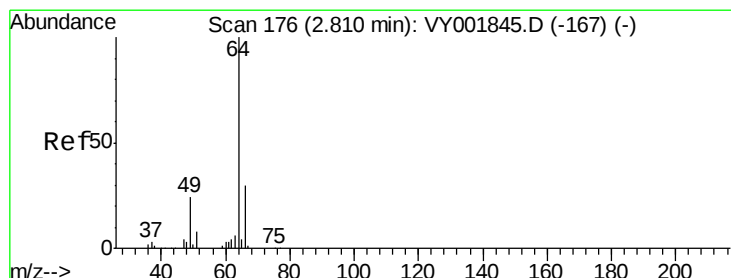
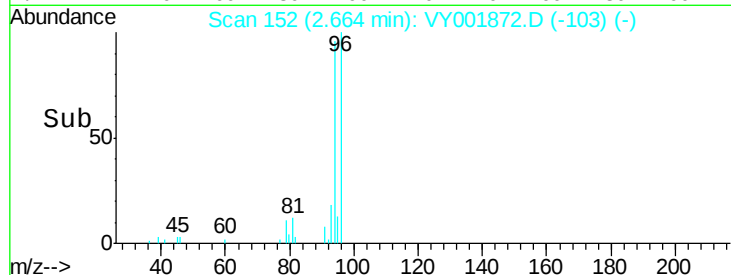
2.66

2.66

2.66

2.66

2.66



#6

Chloroethane

Concen: 2.962 ug/l

RT: 2.81 min Scan# 176

Delta R.T. 0.00 min

Lab File: VY001872.D

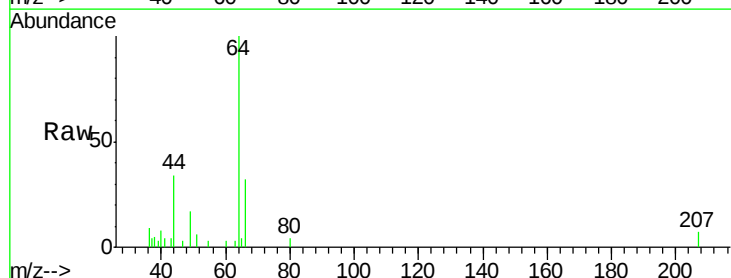
Acq: 05 Mar 2020 11:38

Tgt Ion: 64 Resp: 3968

Ion Ratio Lower Upper

64 100

66 32.1 23.8 35.8



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2000

1500

1000

500

0

Time-->

2.75 2.80 2.85 2.90

2.81

2.81

2.81

2.81

2.81

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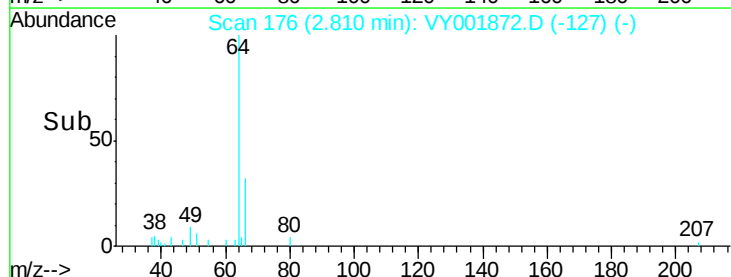
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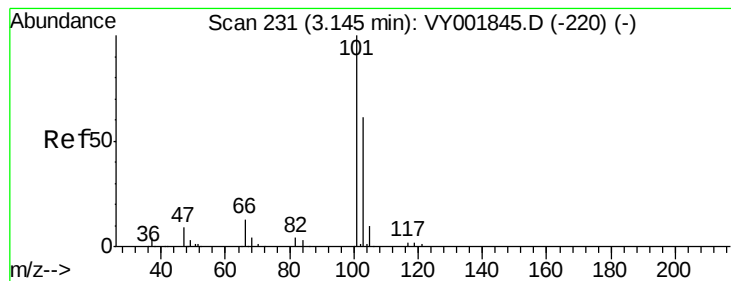
2.81

2.81

2.81

2.81





#7

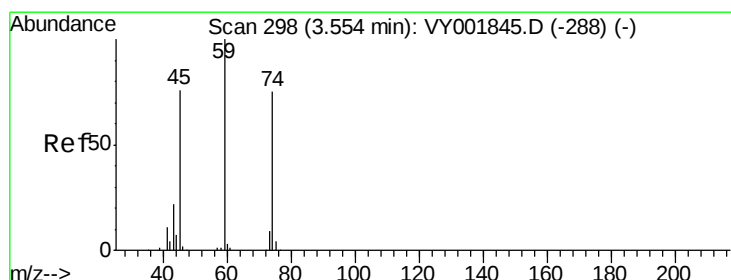
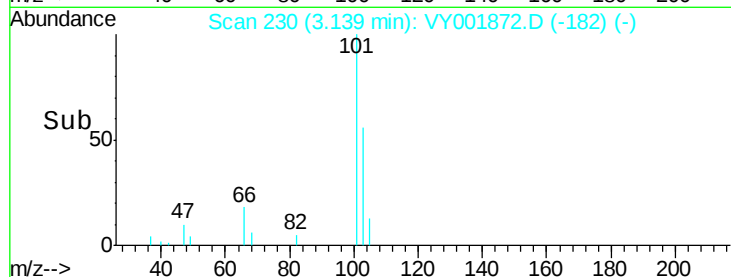
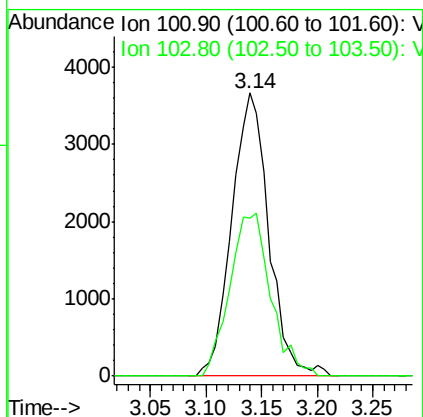
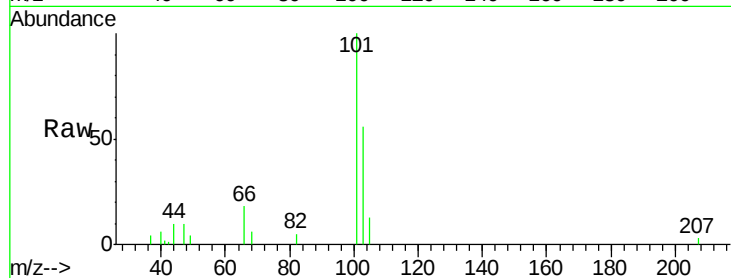
Trichlorofluoromethane
 Concen: 2.919 ug/l
 RT: 3.14 min Scan# 230
 Delta R.T. -0.01 min
 Lab File: VY001872.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	55.9	49.1	73.7

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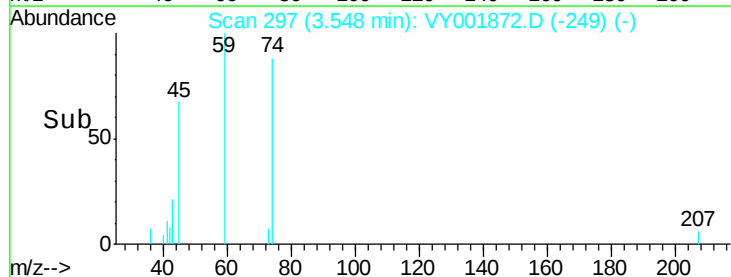
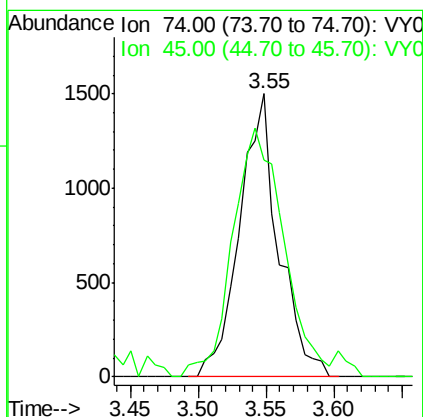
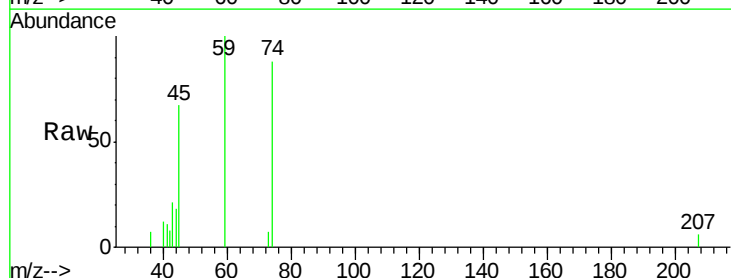
MMDadoda
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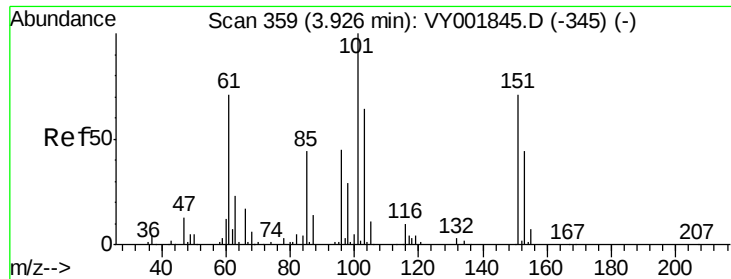


#8

Diethyl Ether
 Concen: 2.636 ug/l
 RT: 3.55 min Scan# 297
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.7	50.5	151.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.643 ug/l

RT: 3.92 min Scan# 358

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

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MSVOA_Y

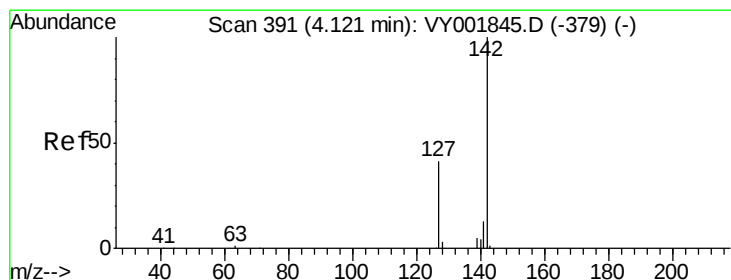
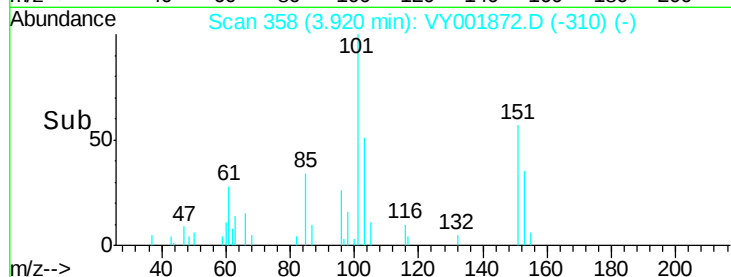
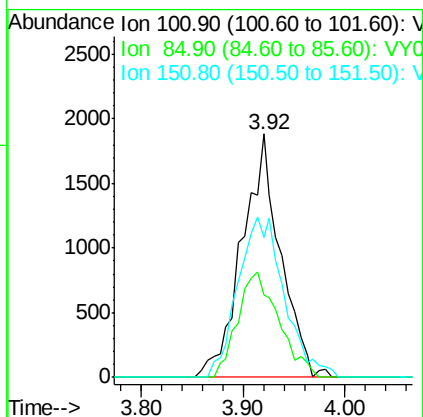
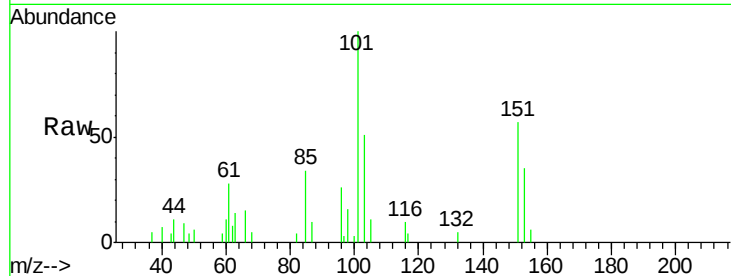
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	101	Resp:	4916
Ion Ratio	Lower	Upper	
101	100		
85	46.3	35.3	52.9
151	79.6	57.0	85.4

Manual Integrations
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#10

Methyl Iodide

Concen: 2.311 ug/l

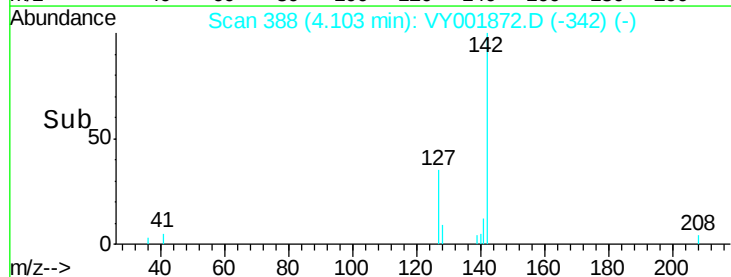
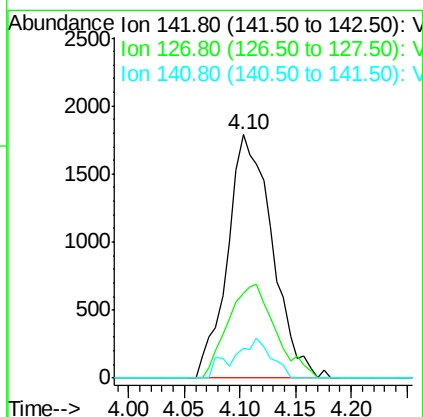
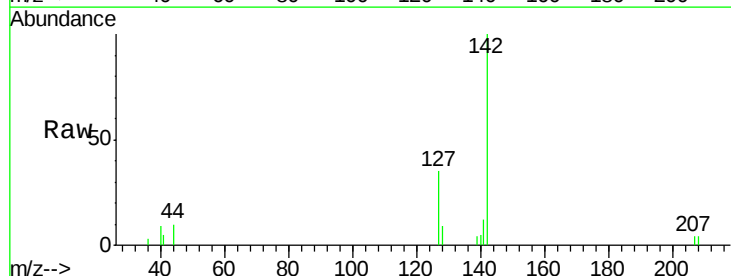
RT: 4.10 min Scan# 388

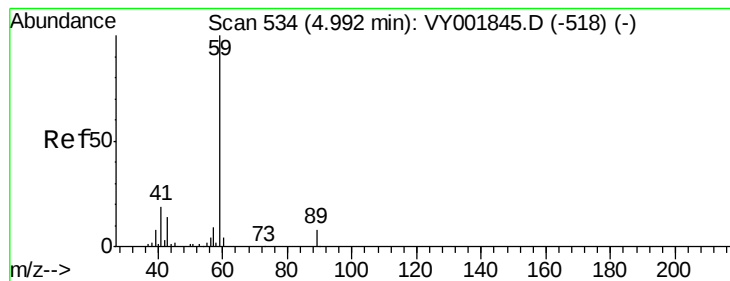
Delta R.T. -0.02 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion:	142	Resp:	4970
Ion Ratio	Lower	Upper	
142	100		
127	41.0	32.7	49.1
141	13.9	11.0	16.6





#11

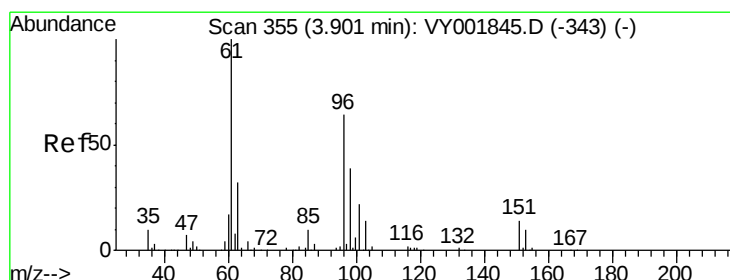
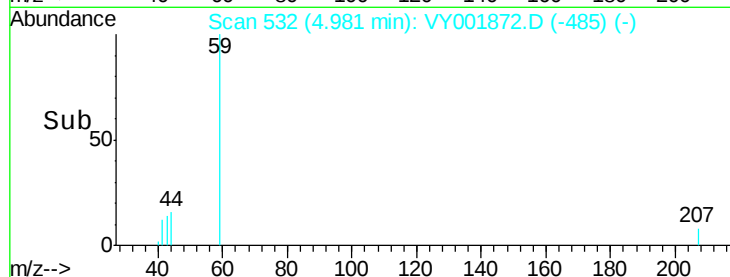
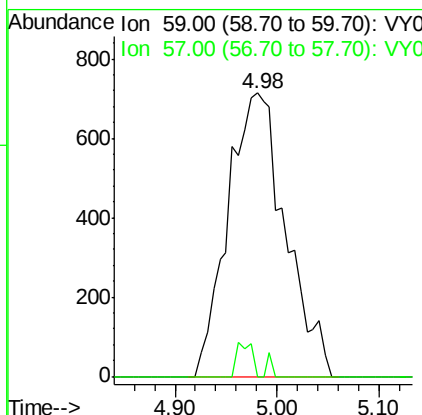
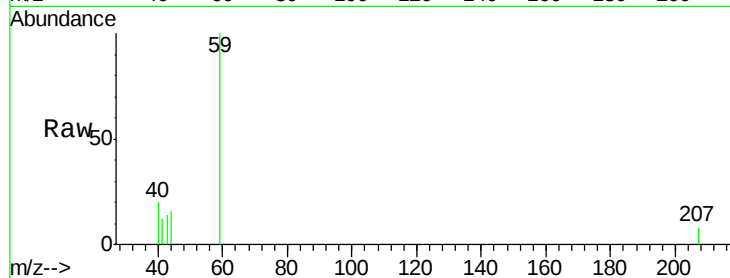
Tert butyl alcohol
Concen: 12.755 ug/l
RT: 4.98 min Scan# 532
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
59	100	2800		
57	3.1		7.4	11.2#

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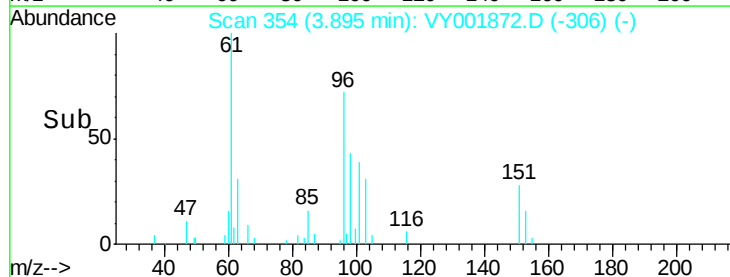
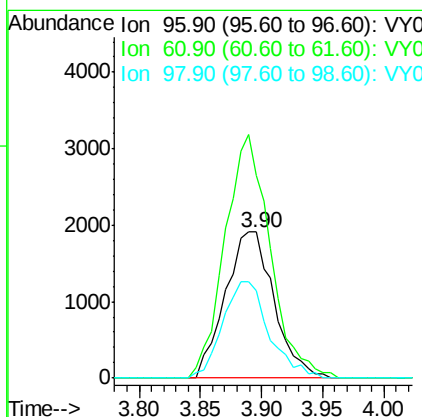
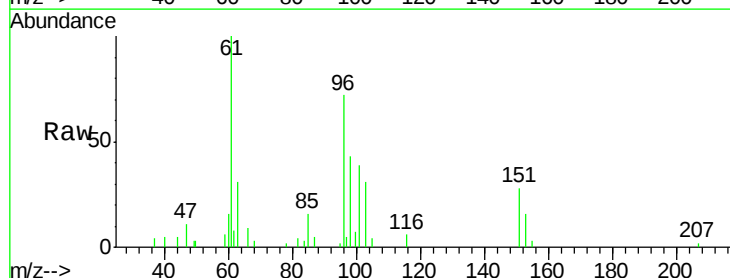
MMDadoda
3/6/2020 11:16:51 AM

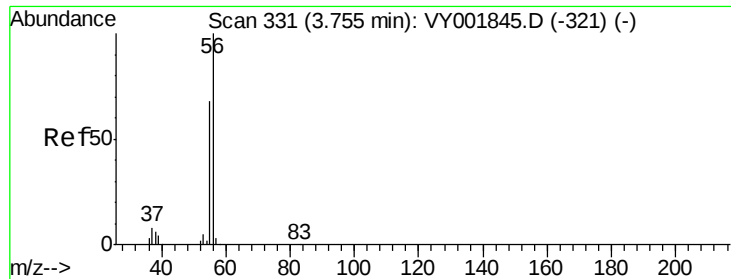


#12

1,1-Dichloroethene
Concen: 2.824 ug/l
RT: 3.90 min Scan# 354
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	5289		
61	138.9		124.8	187.2
98	60.0		49.2	73.8





#13

Acrolein

Concen: 12.331 ug/l

RT: 3.75 min Scan# 330

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 3116

Ion Ratio Lower Upper

56 100

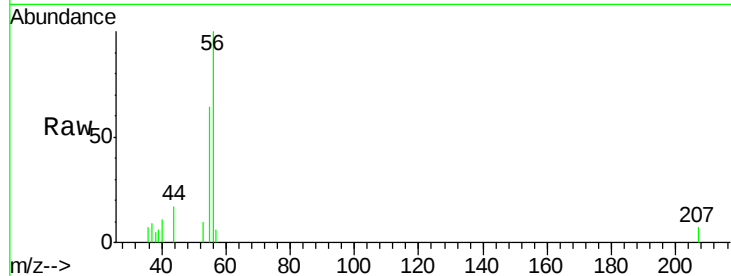
55 78.5 54.0 81.0

Manual Integrations

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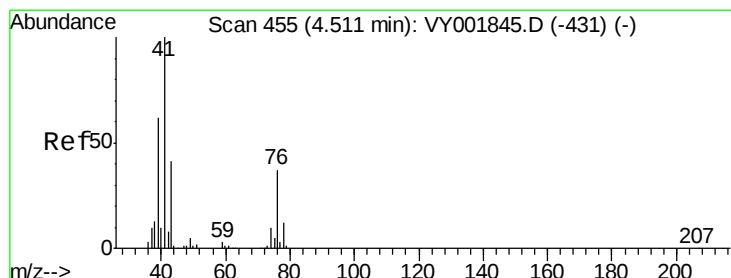
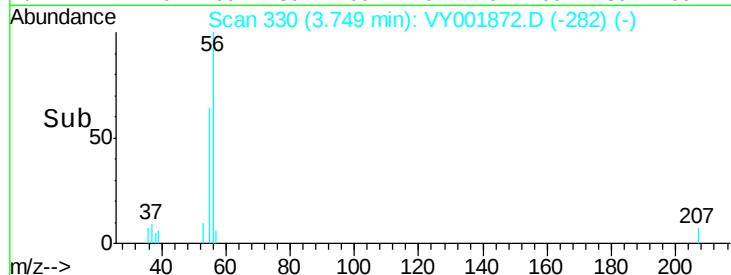
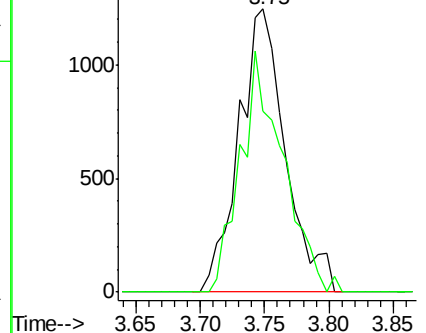
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 2.733 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

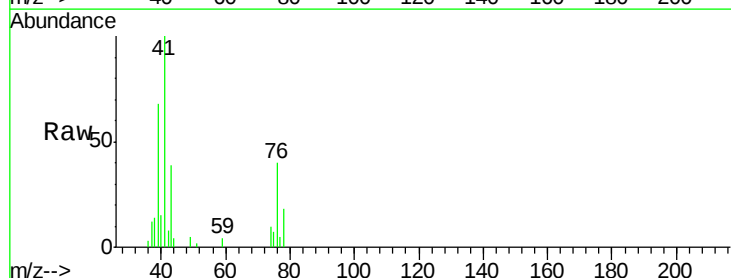
Tgt Ion: 41 Resp: 9073

Ion Ratio Lower Upper

41 100

39 62.4 49.0 73.6

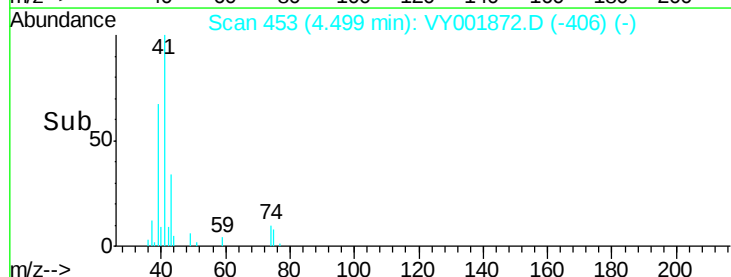
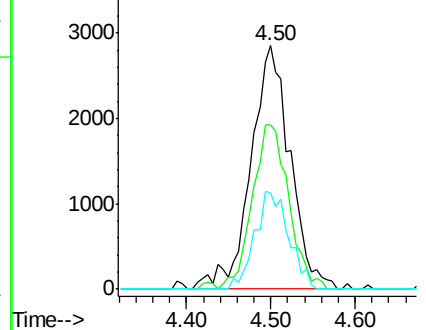
76 34.7 28.9 43.3

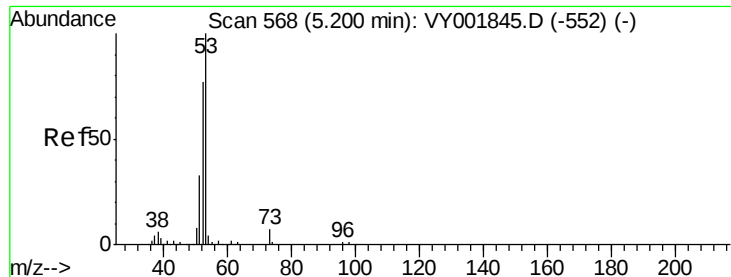


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 13.086 ug/l

RT: 5.19 min Scan# 566

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

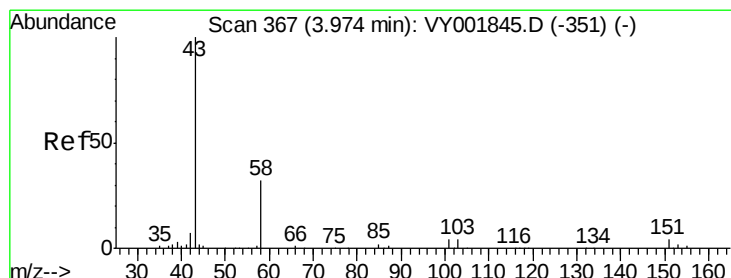
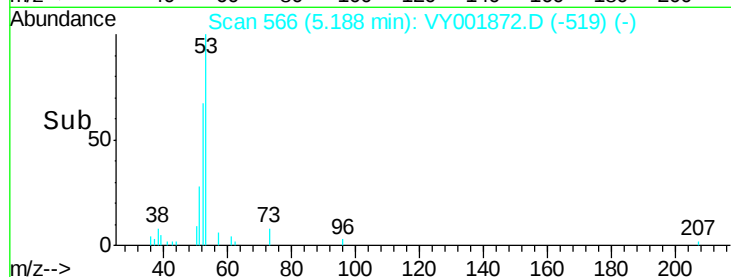
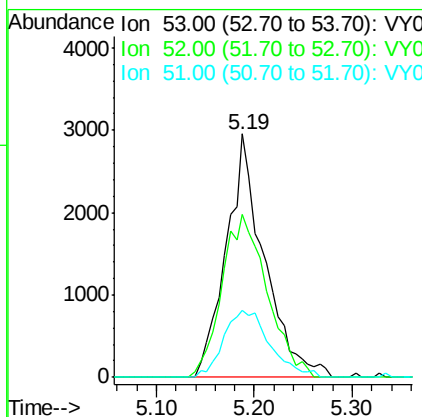
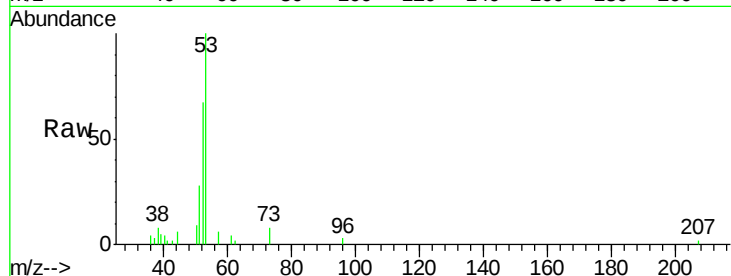
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	53	Resp:	7970
Ion	Ratio	Lower	Upper
53	100		
52	79.7	65.1	97.7
51	33.6	27.5	41.3

Manual Integrations
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#16

Acetone

Concen: 13.382 ug/l

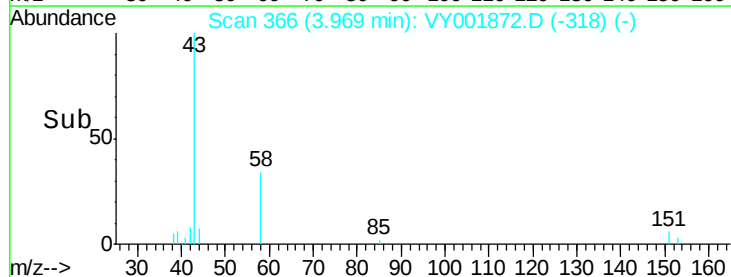
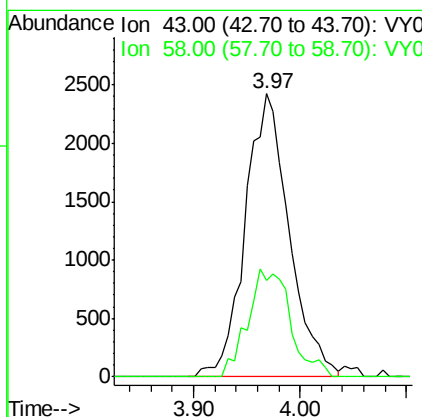
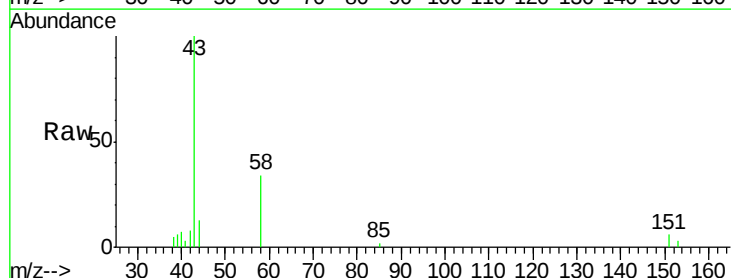
RT: 3.97 min Scan# 366

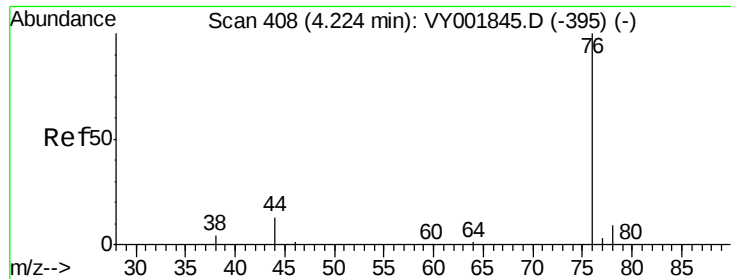
Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion:	43	Resp:	7009
Ion	Ratio	Lower	Upper
43	100		
58	34.1	25.9	38.9





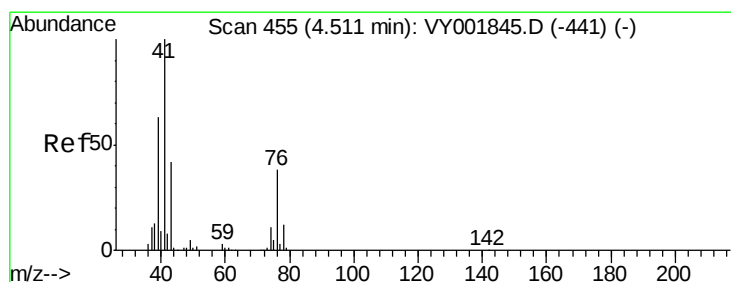
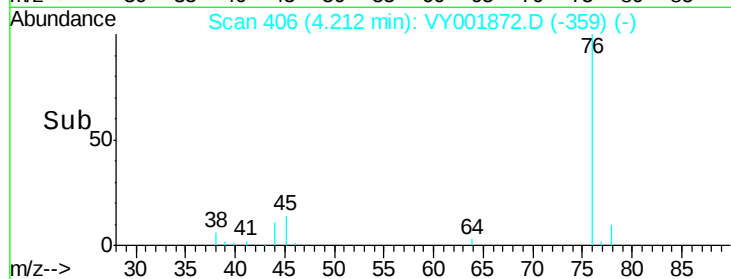
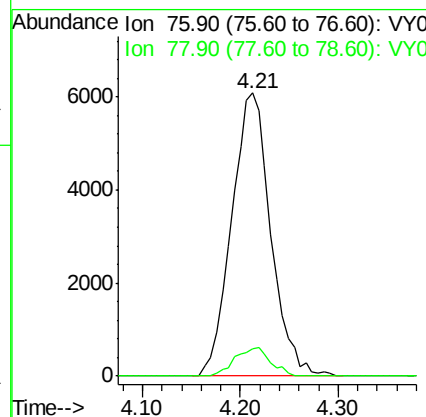
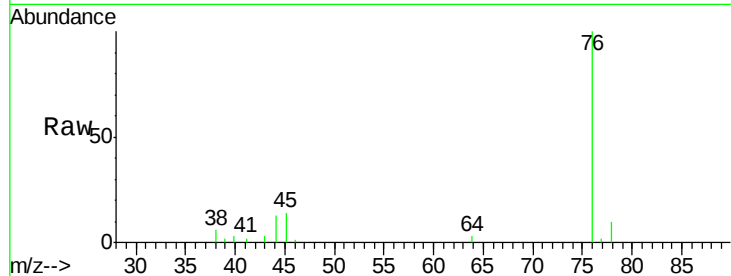
#17
Carbon Disulfide
Concen: 2.675 ug/l
RT: 4.21 min Scan# 406
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 16842
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.2

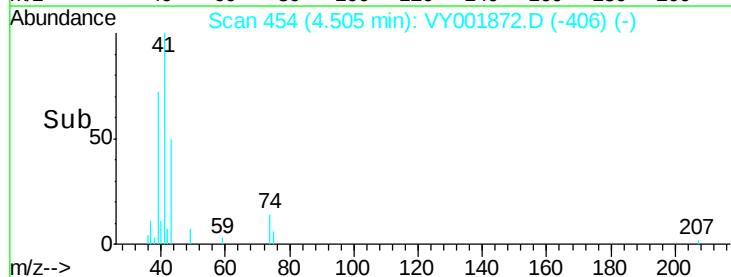
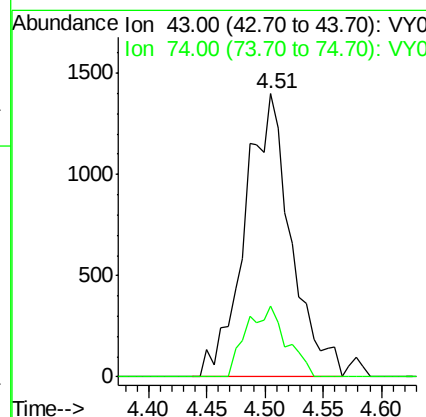
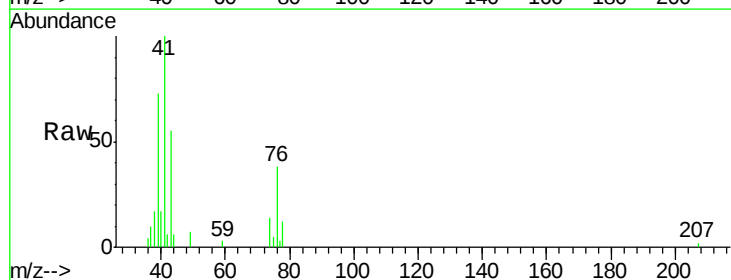
Manual Integrations
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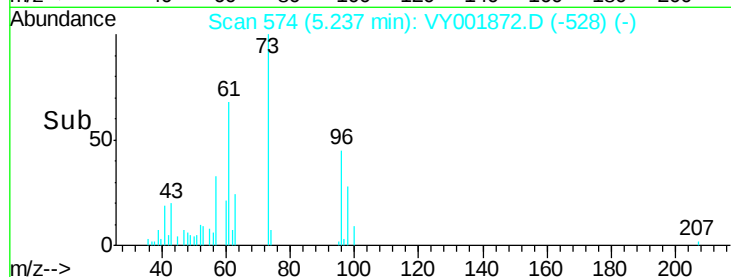
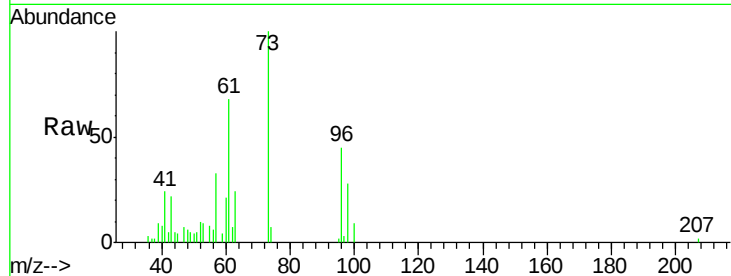
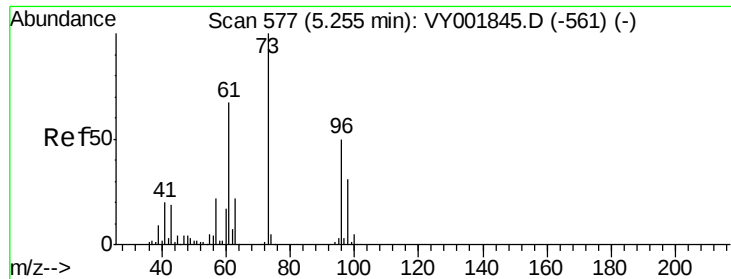
MMDadoda
3/6/2020 11:16:51 AM



#18
Methyl Acetate
Concen: 2.875 ug/l
RT: 4.51 min Scan# 454
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion: 43 Resp: 3869
Ion Ratio Lower Upper
43 100
74 21.6 19.0 28.6





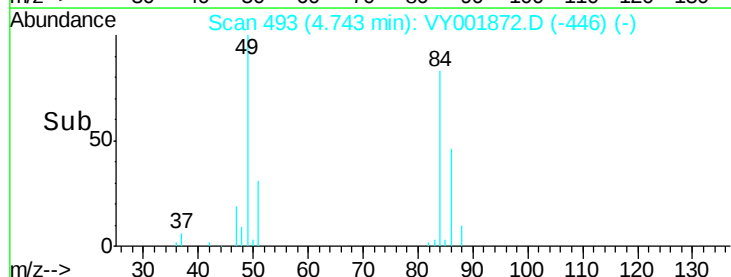
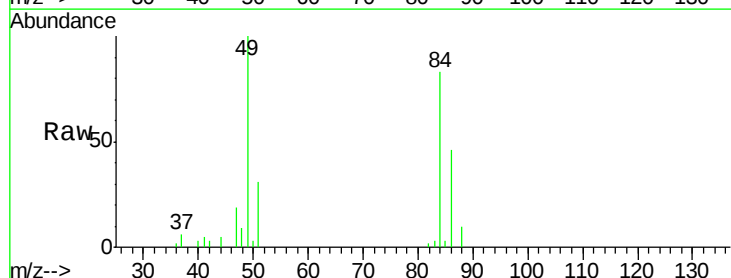
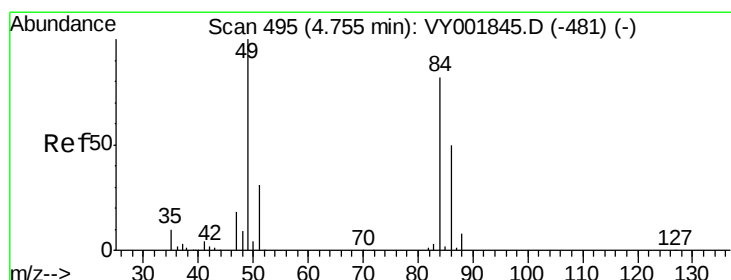
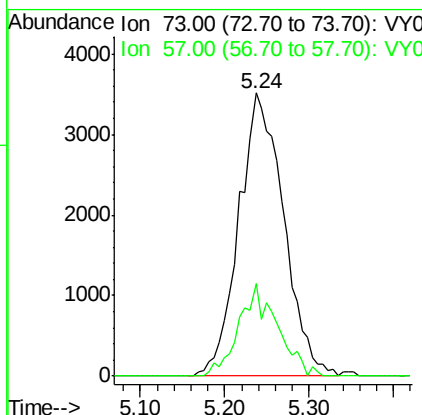
#19
Methyl tert-butyl Ether
Concen: 2.509 ug/l
RT: 5.24 min Scan# 574
Delta R.T. -0.02 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tot Ion: 73 Resp: 12734
Ion Ratio Lower Upper
73 100
57 32.8 17.4 26.2#

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

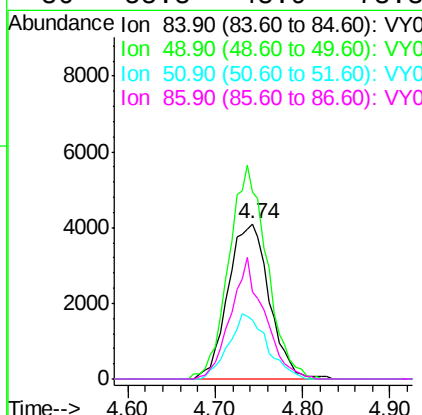
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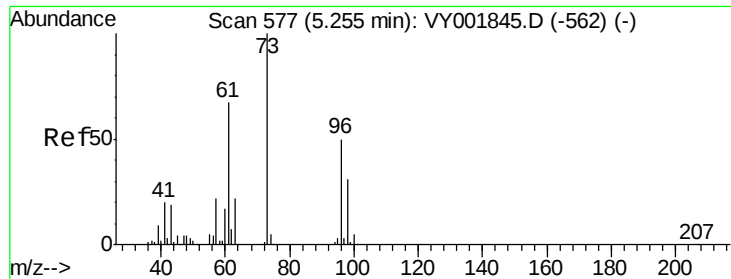
MMDadoda
3/6/2020 11:16:51 AM



#20
Methylene Chloride
Concen: 5.951 ug/l
RT: 4.74 min Scan# 493
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion: 84 Resp: 13358
Ion Ratio Lower Upper
84 100
49 120.3 98.2 147.2
51 37.6 30.2 45.2
86 55.8 48.9 73.3





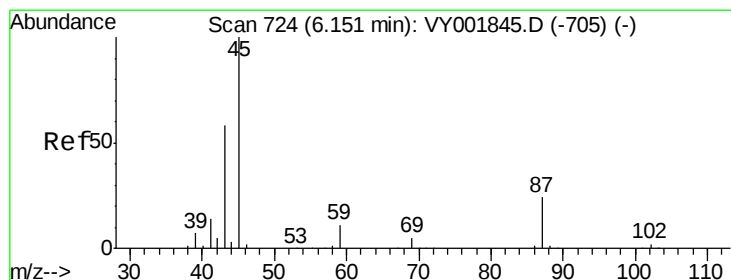
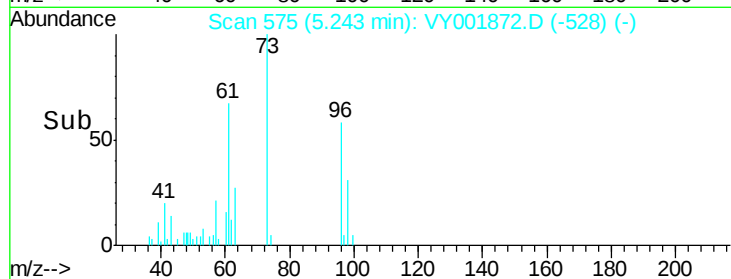
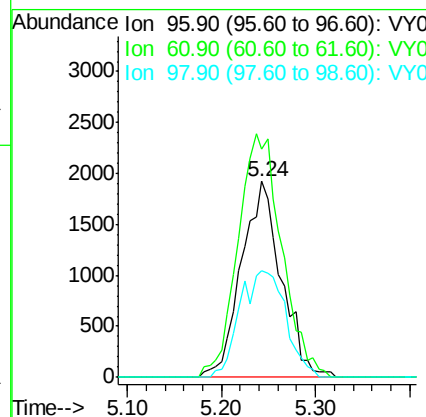
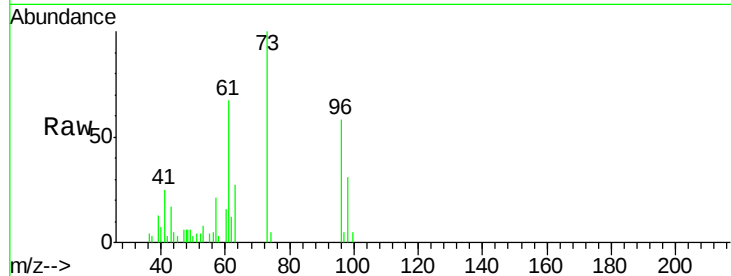
#21
trans-1,2-Dichloroethene
Concen: 2.689 ug/l
RT: 5.24 min Scan# 575
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.9	107.7	161.5
98	54.5	49.3	73.9

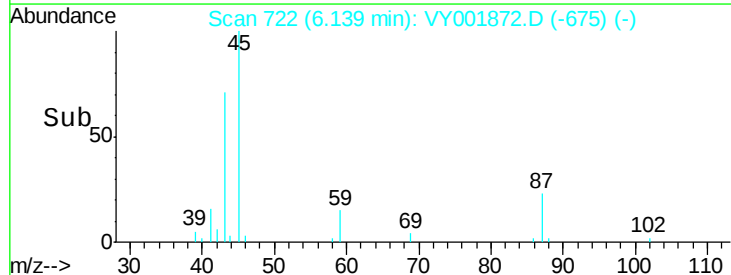
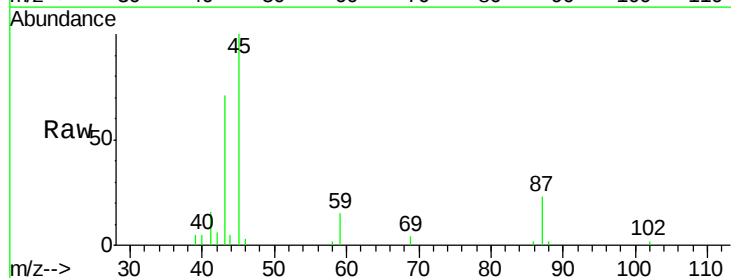
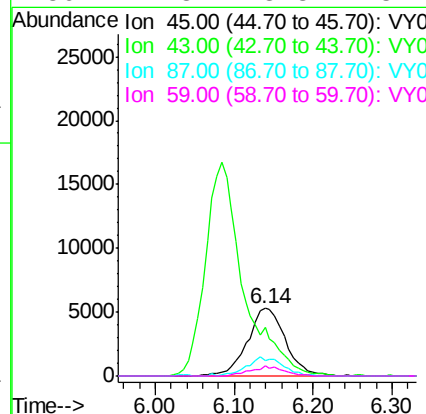
Manual Integrations
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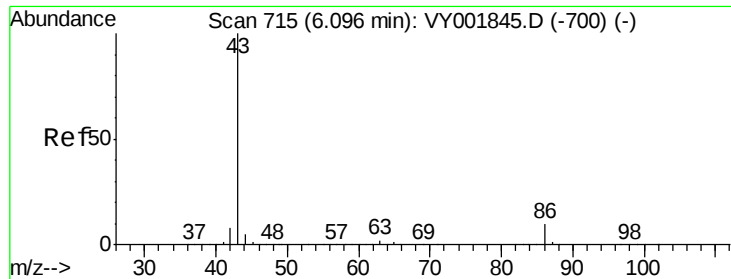
MMDadoda
3/6/2020 11:16:51 AM



#22
Diisopropyl ether
Concen: 2.605 ug/l
RT: 6.14 min Scan# 722
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	71.4	47.2	70.8#
87	23.5	19.8	29.8
59	14.8	8.8	13.2#





#23

Vinyl Acetate

Concen: 12.619 ug/l

RT: 6.08 min Scan# 713

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 56302

Ion Ratio Lower Upper

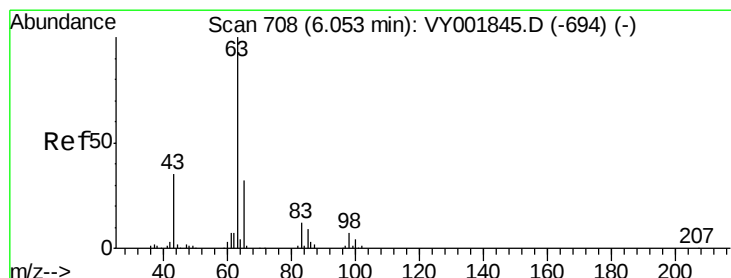
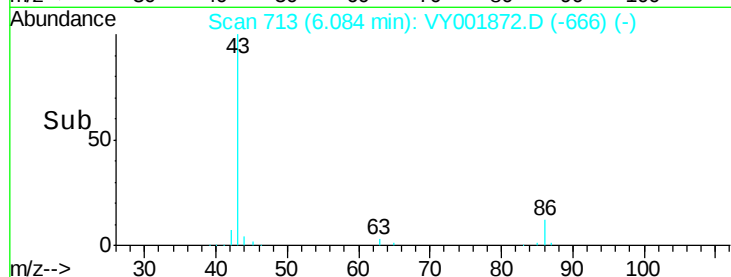
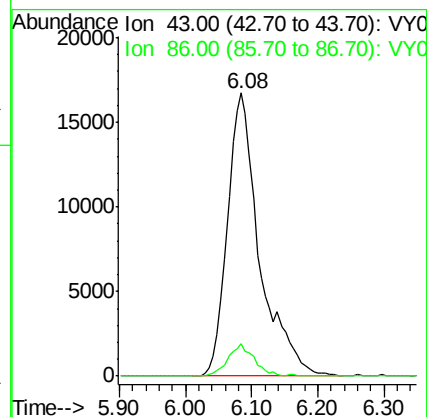
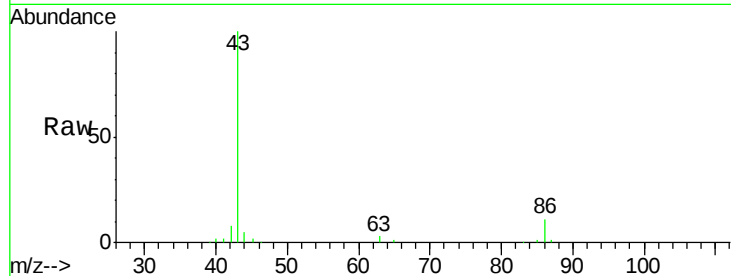
43 100

86 11.4 7.8 11.8

Manual Integrations
APPROVED

MMDadoda

3/6/2020 11:16:51 AM



#24

1,1-Dichloroethane

Concen: 2.715 ug/l

RT: 6.04 min Scan# 706

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

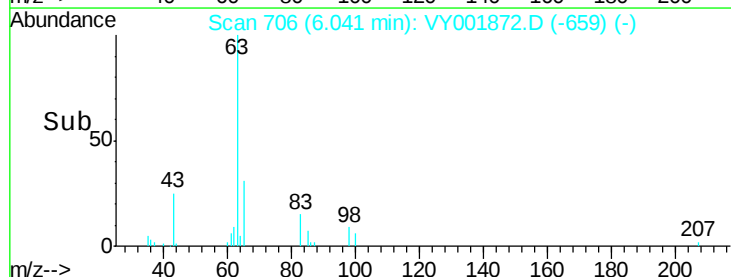
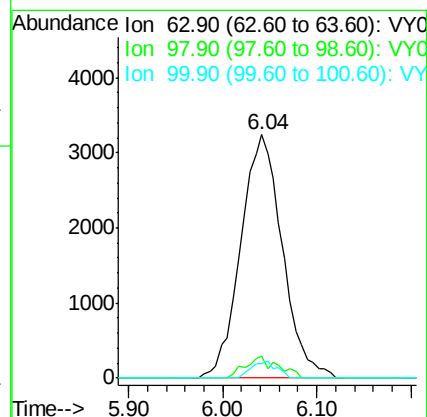
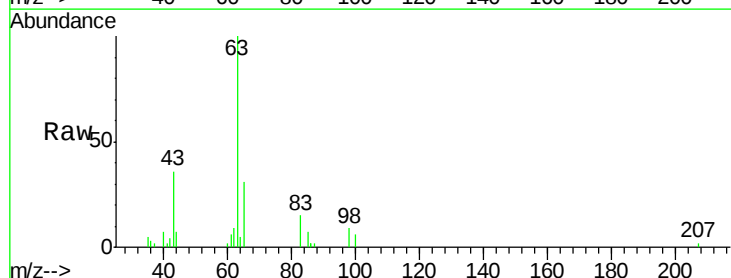
Tgt Ion: 63 Resp: 10007

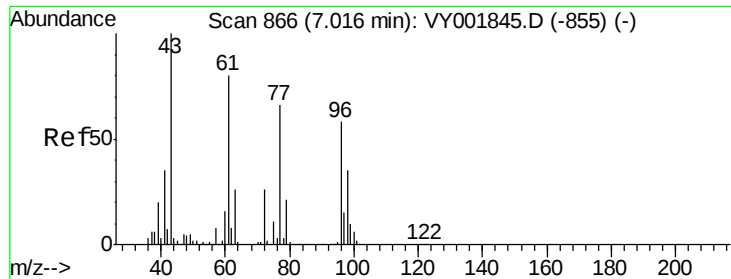
Ion Ratio Lower Upper

63 100

98 9.2 3.4 10.2

100 5.7 2.0 6.0





#25

2-Butanone

Concen: 12.385 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 9865

Ion Ratio Lower Upper

43 100

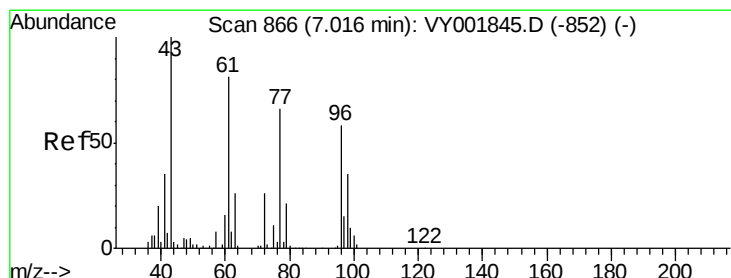
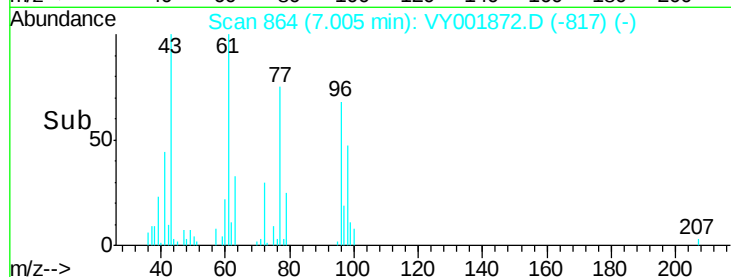
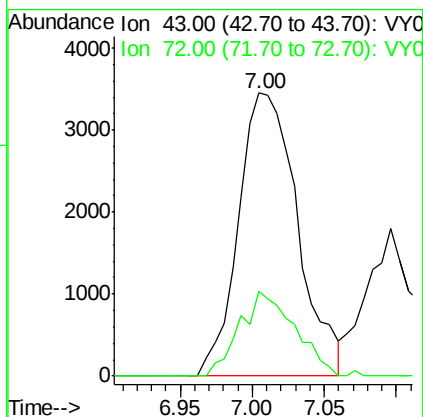
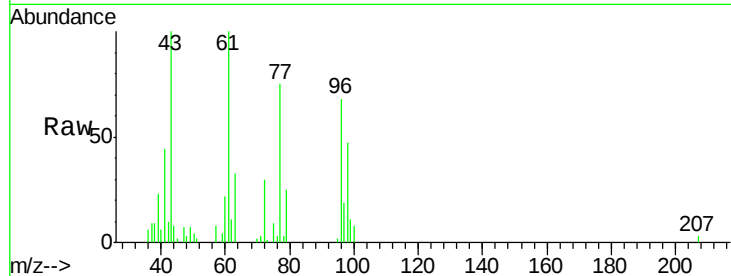
72 30.0 20.9 31.3

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3/6/2020 11:16:51 AM



#26

2,2-Dichloropropane

Concen: 2.579 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY001872.D

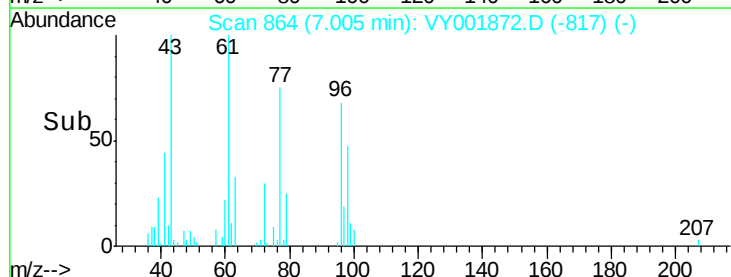
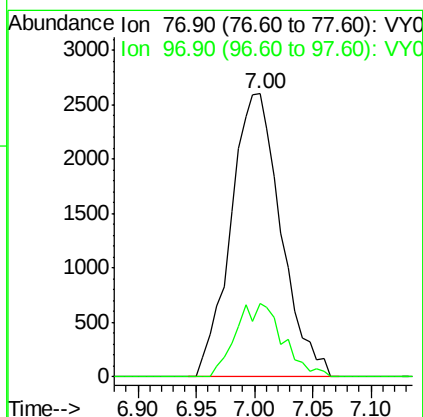
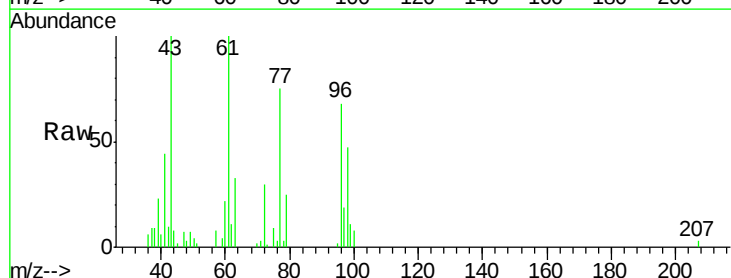
Acq: 05 Mar 2020 11:38

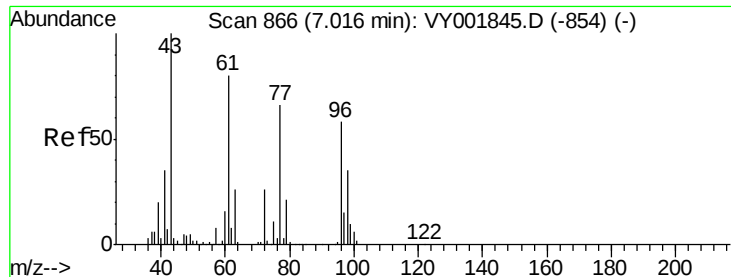
Tgt Ion: 77 Resp: 7801

Ion Ratio Lower Upper

77 100

97 24.4 11.9 35.7





#27

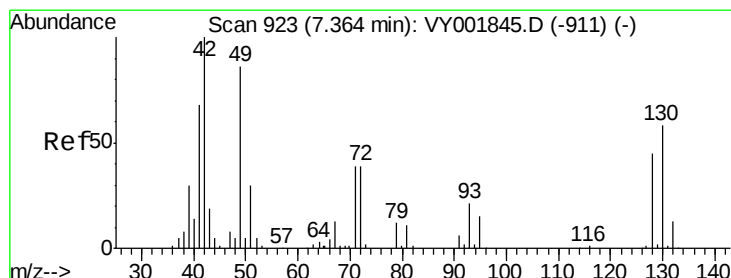
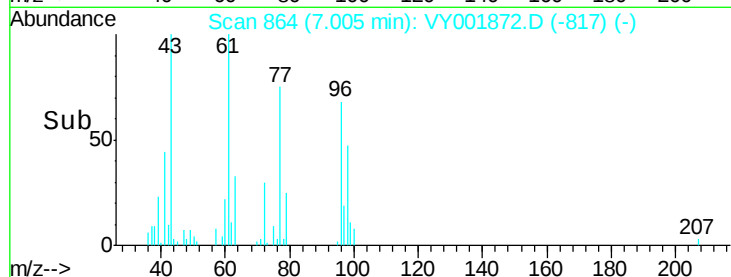
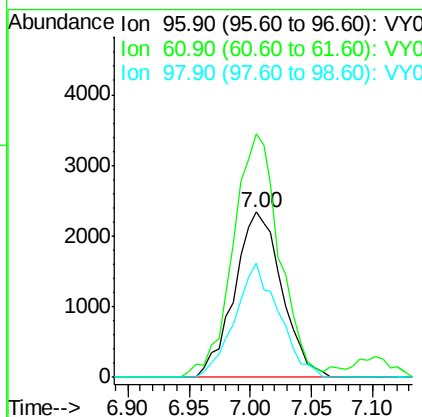
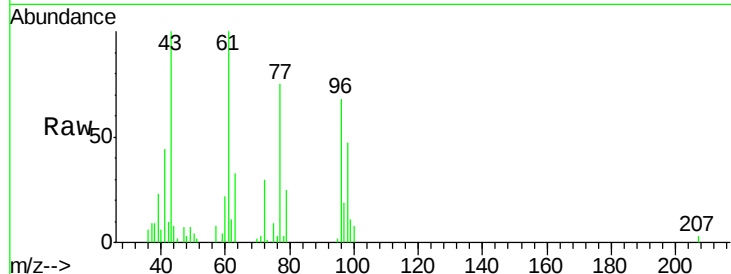
cis-1,2-Dichloroethene
Concen: 2.729 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.7	0.0	288.2
98	64.0	0.0	129.0

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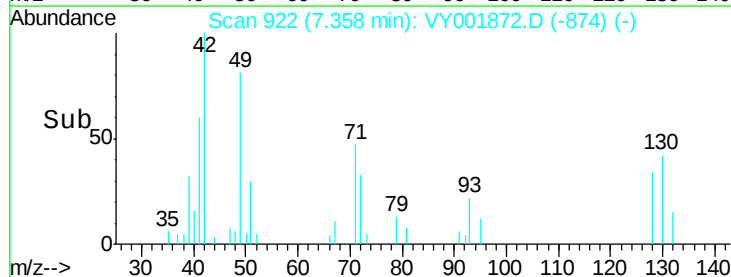
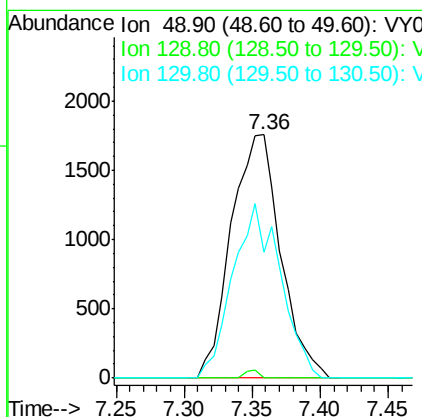
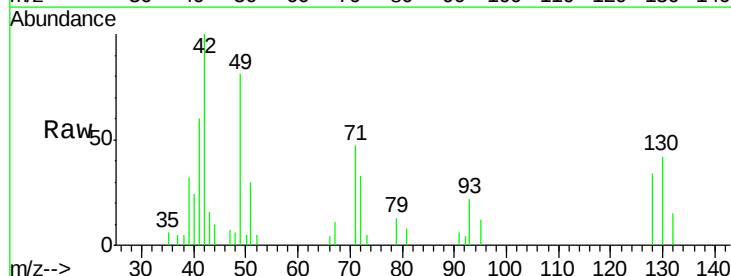
MMDadoda
3/6/2020 11:16:51 AM

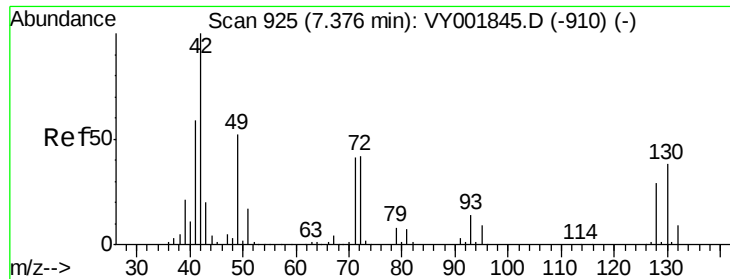


#28

Bromochloromethane
Concen: 2.678 ug/l
RT: 7.36 min Scan# 922
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.8
130	69.0	54.4	81.6





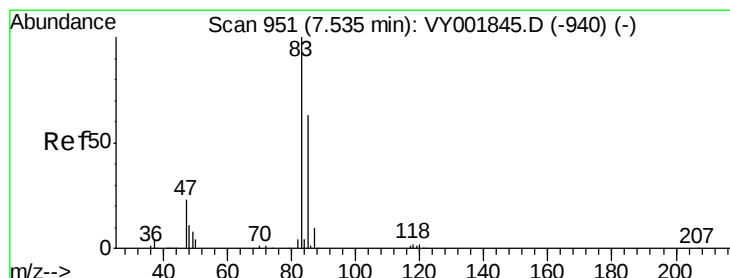
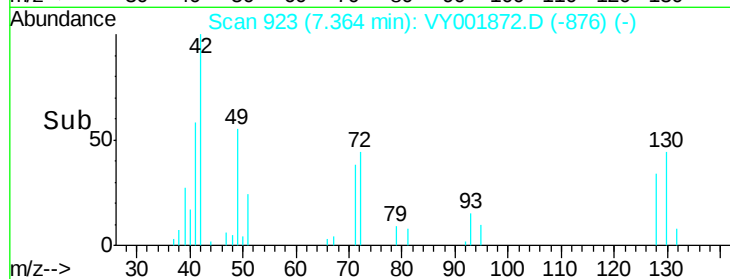
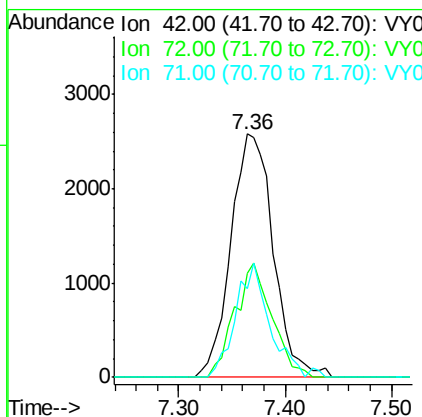
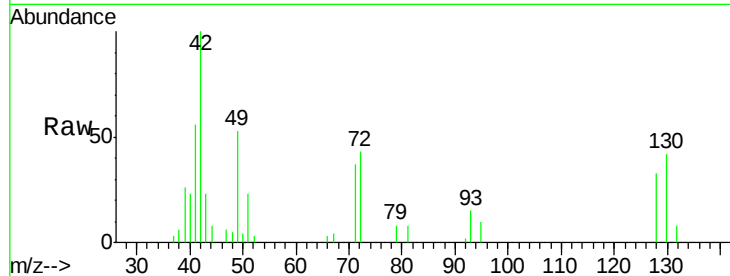
#29
Tetrahydrofuran
Concen: 13.610 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.1	33.5	50.3
71	37.4	31.3	46.9

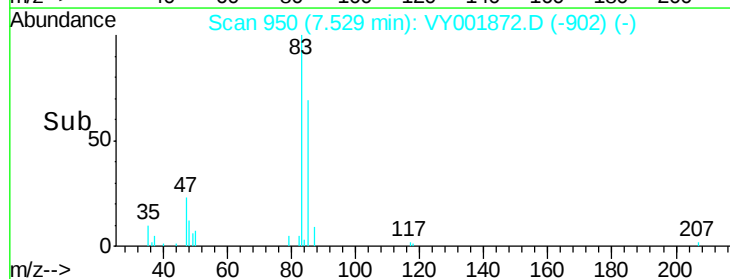
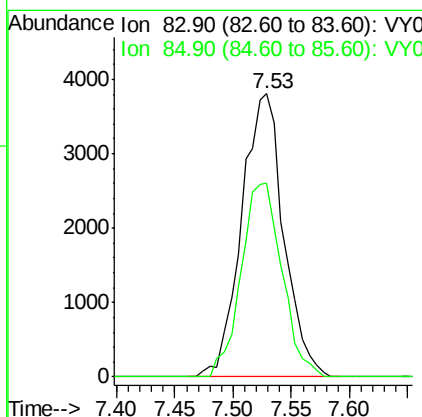
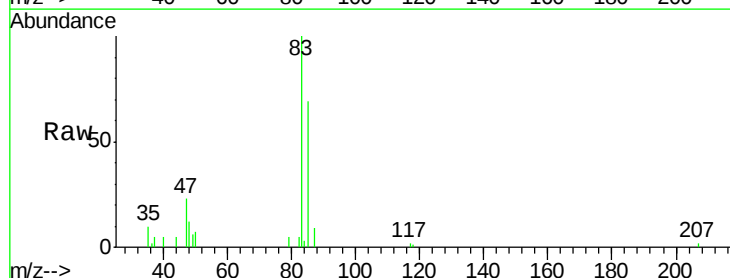
Manual Integrations
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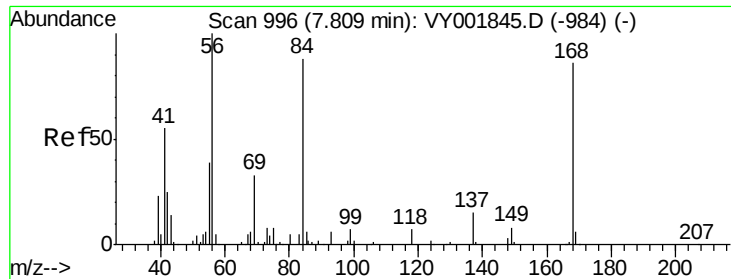
MMDadoda
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#30
Chloroform
Concen: 2.770 ug/l
RT: 7.53 min Scan# 950
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.6	50.7	76.1





#31

Cvclohexane

Concen: 3.360 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

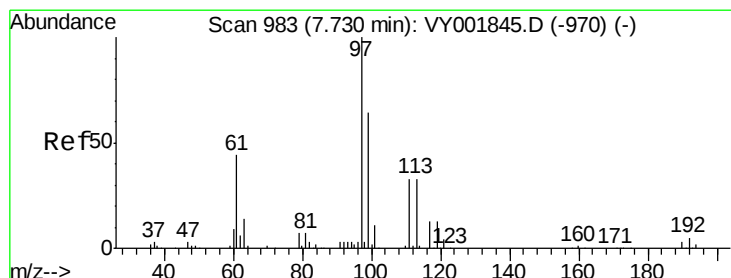
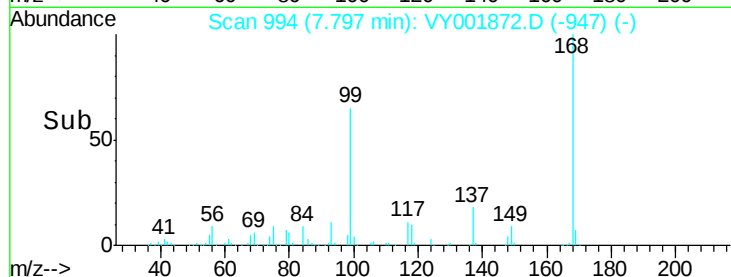
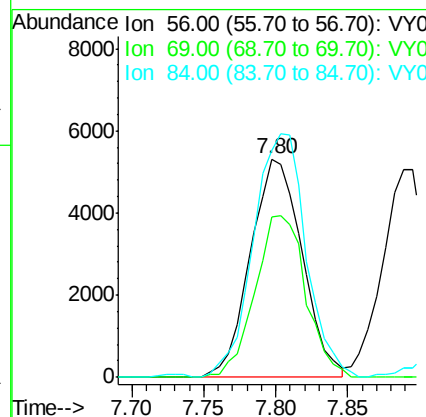
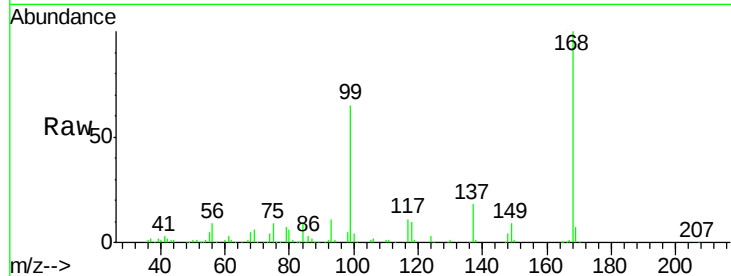
MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 13276

Ion	Ratio	Lower	Upper
56	100		
69	73.3	26.7	40.1#
84	104.0	70.4	105.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 2.653 ug/l

RT: 7.72 min Scan# 981

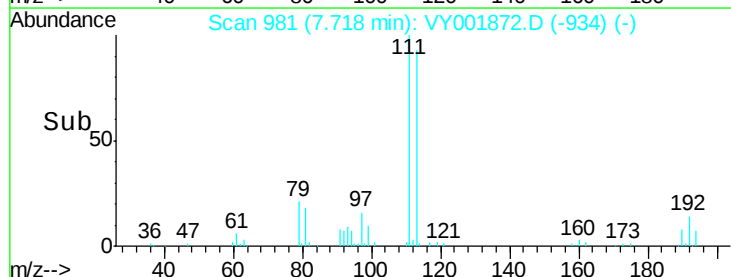
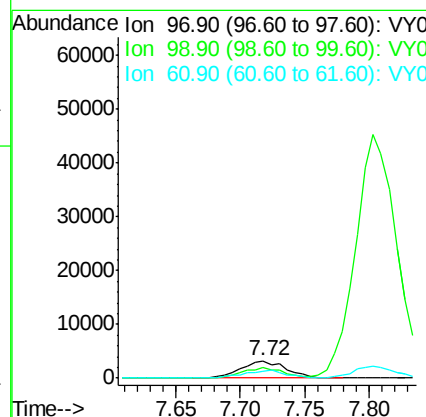
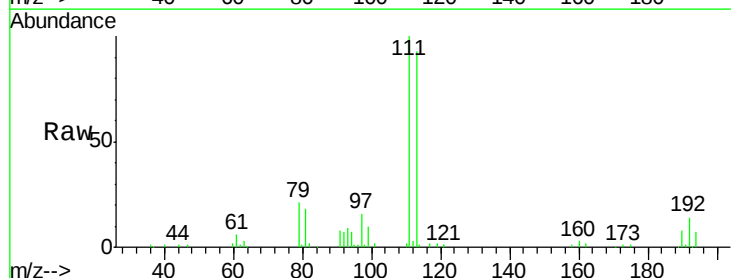
Delta R.T. -0.01 min

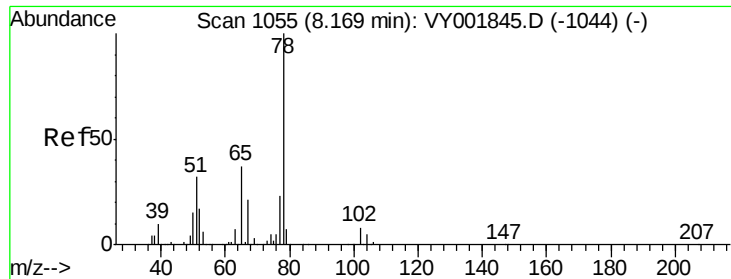
Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion: 97 Resp: 7744

Ion	Ratio	Lower	Upper
97	100		
99	59.2	52.0	78.0
61	43.1	35.0	52.4





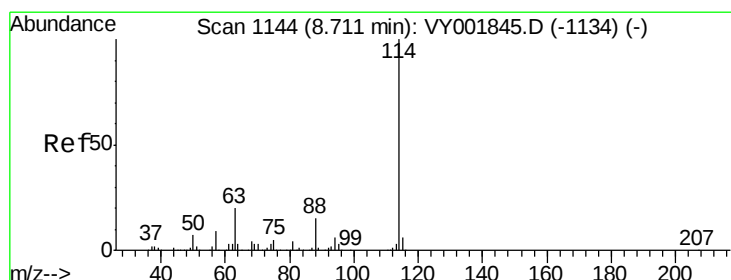
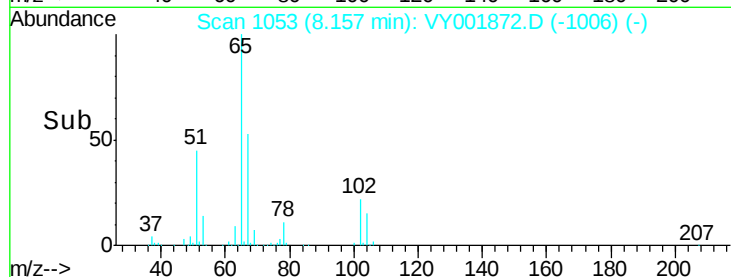
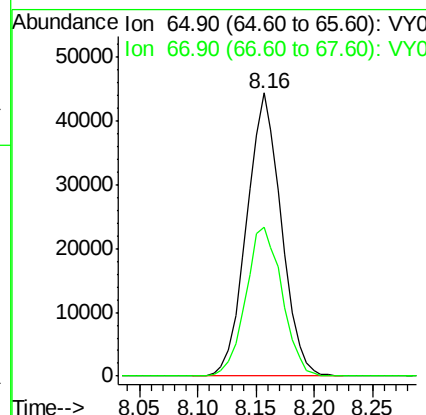
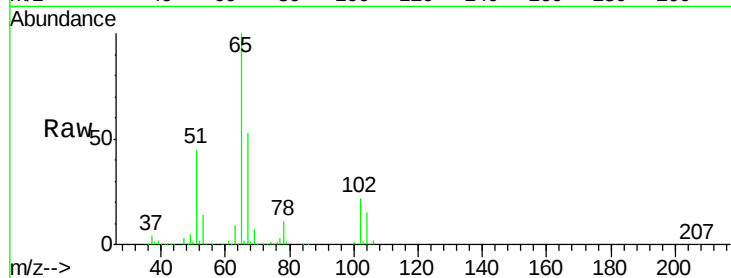
#33
 1,2-Dichloroethane-d4
 Concen: 51.122 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	110.8

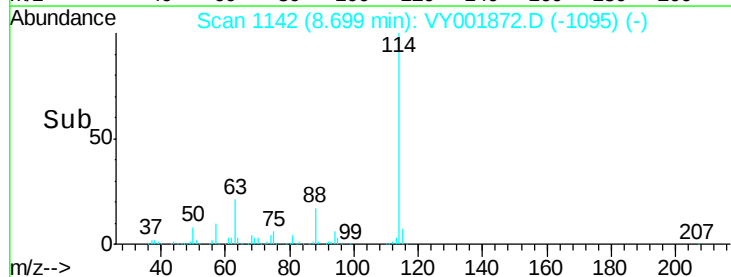
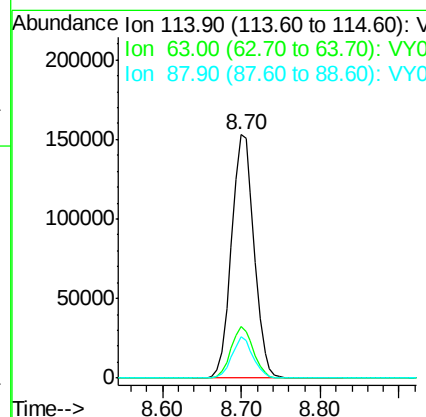
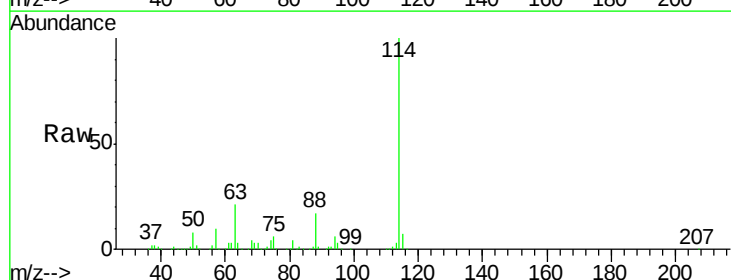
Manual Integrations
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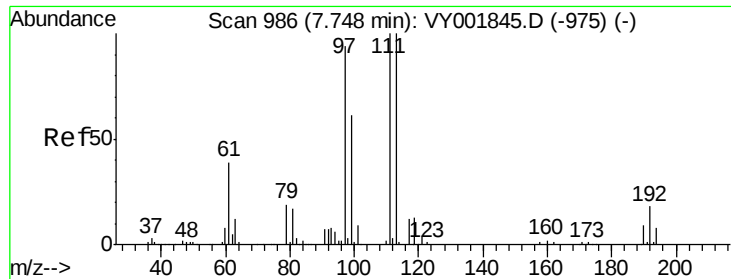
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 3/6/2020 11:16:51 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	39.4
88	16.8	0.0	30.4





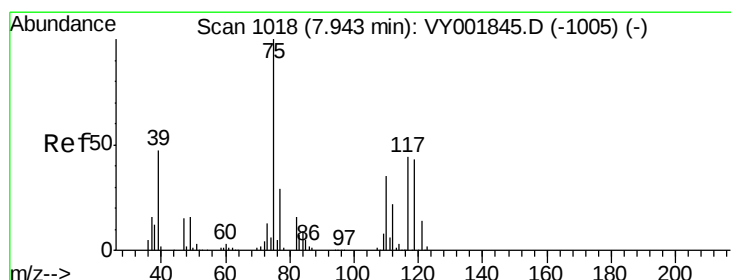
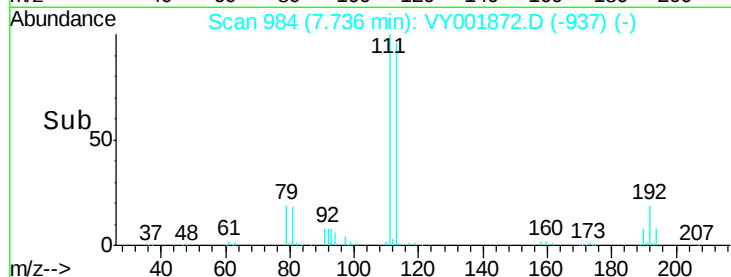
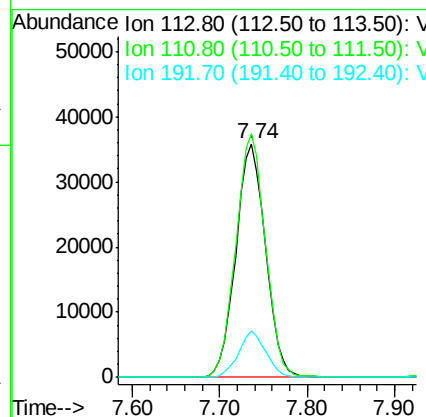
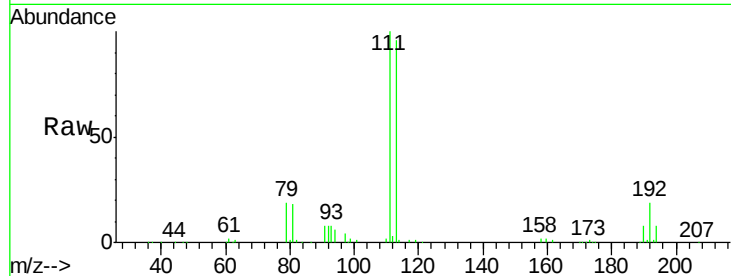
#35
 Dibromofluoromethane
 Concen: 51.164 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.8
192	18.3	14.2	21.2

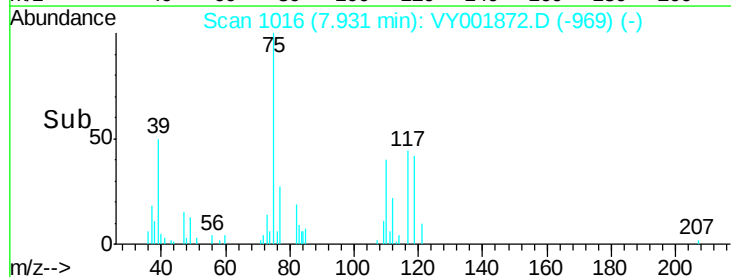
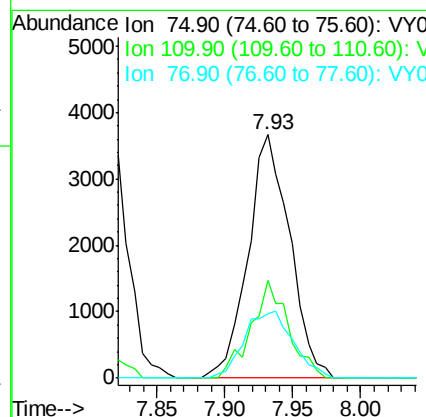
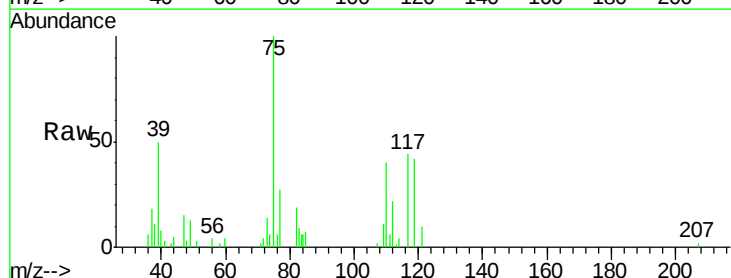
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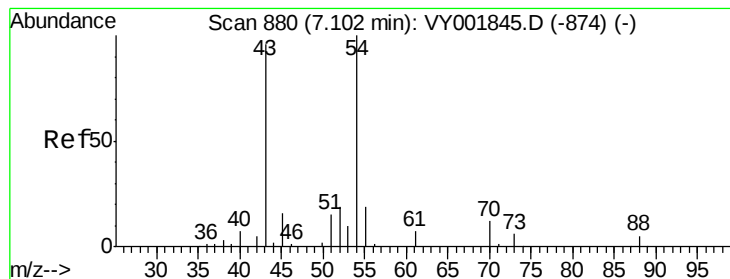
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#36
 1,1-Dichloropropene
 Concen: 2.700 ug/l
 RT: 7.93 min Scan# 1016
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.4	52.2
77	32.0	24.2	36.2





#37

Ethyl Acetate

Concen: 2.626 ug/l

RT: 7.10 min Scan# 879

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

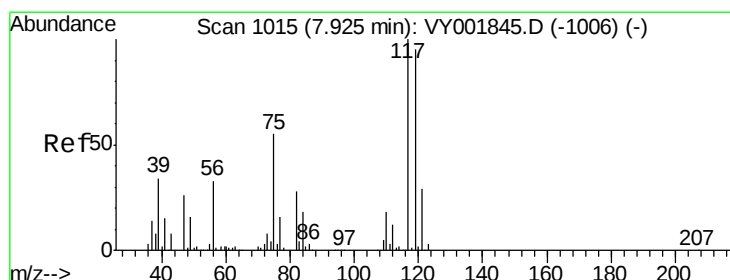
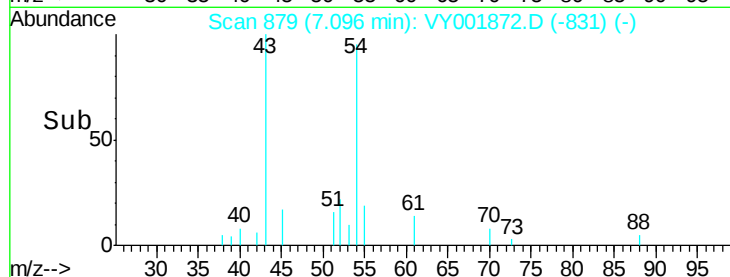
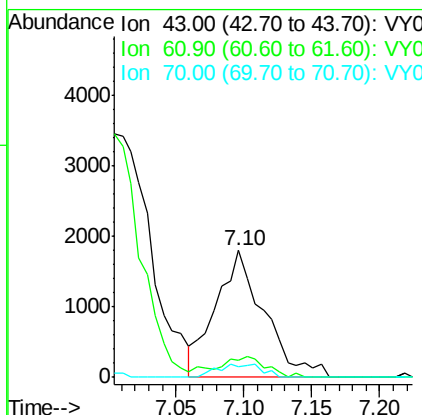
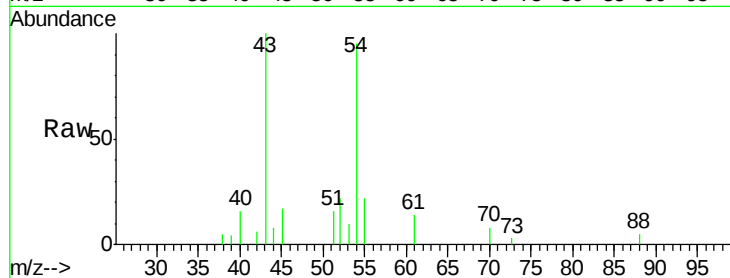
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	43	Resp:	4460
Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.1	16.7
70	9.4	8.2	12.4

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 2.685 ug/l

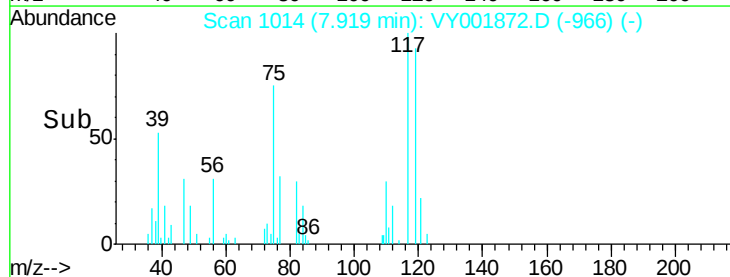
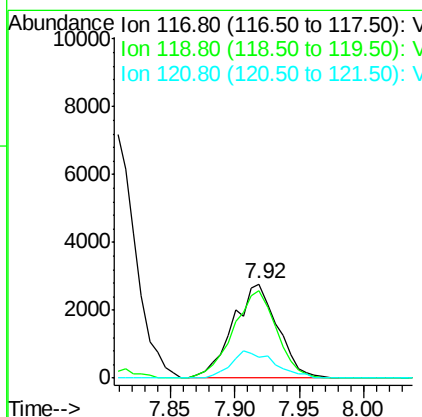
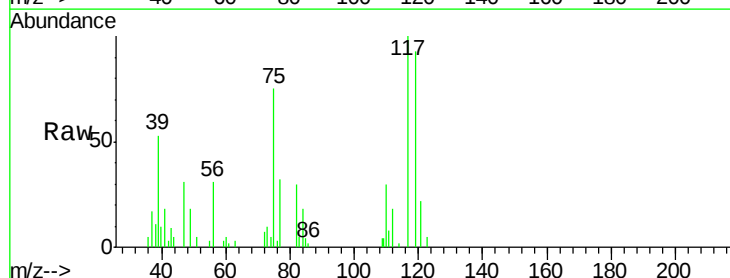
RT: 7.92 min Scan# 1014

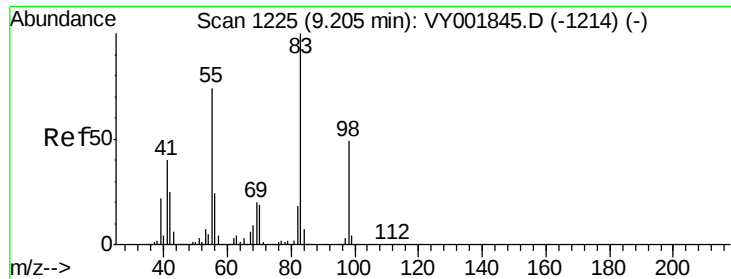
Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion:	117	Resp:	6701
Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.3	114.5
121	21.7	23.5	35.3#





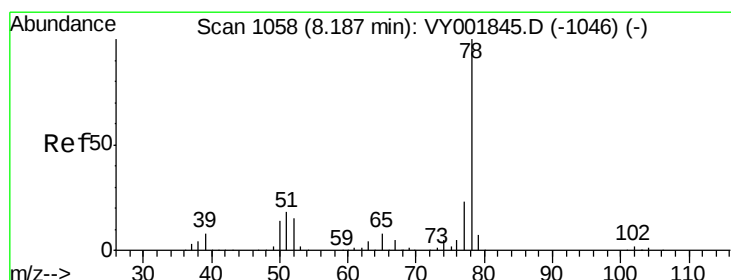
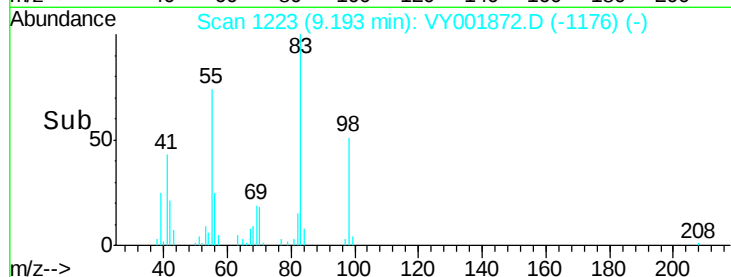
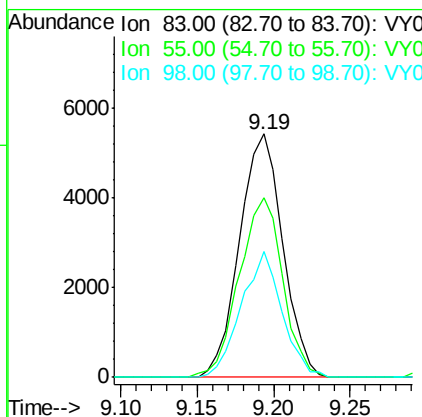
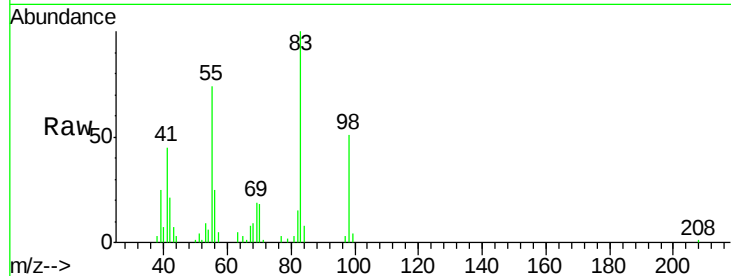
#39
Methvlcvclohexane
Concen: 2.752 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.9	59.4	89.0
98	51.5	38.9	58.3

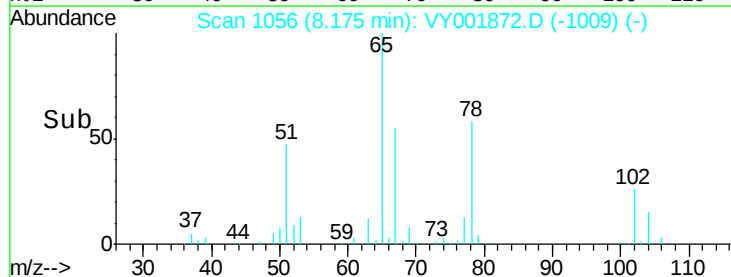
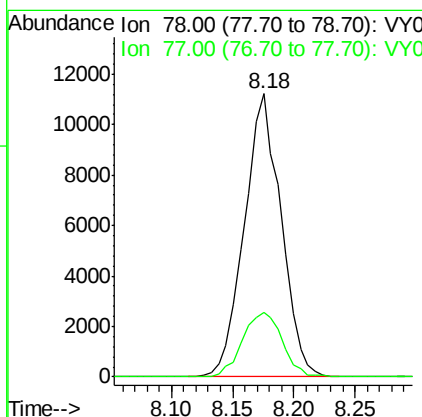
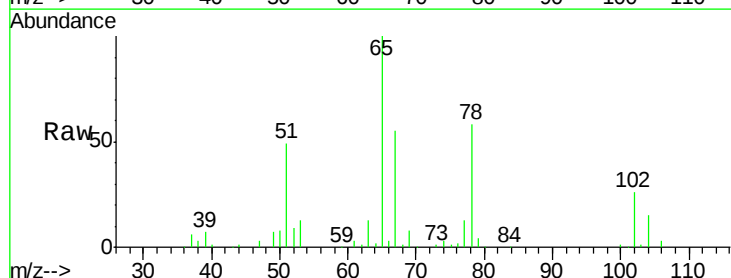
Manual Integrations
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#40
Benzene
Concen: 2.717 ug/l
RT: 8.18 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.7	28.1





#41

Methacrylonitrile

Concen: 2.958 ug/l

RT: 7.33 min Scan# 918

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 41 Resp: 2261

Ion Ratio Lower Upper

41 100

39 0.0 111.7 167.5#

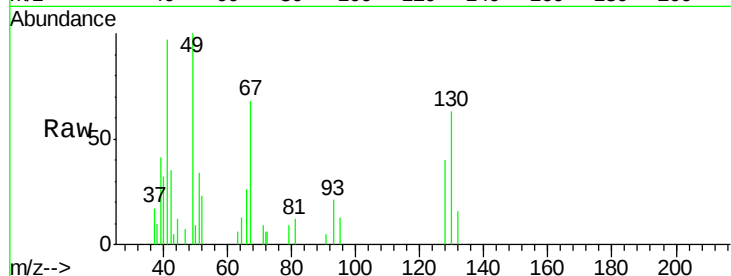
67 76.9 0.0 0.0#

52 27.6 0.0 0.0#

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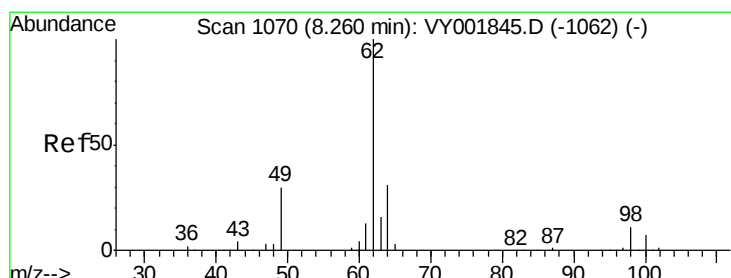
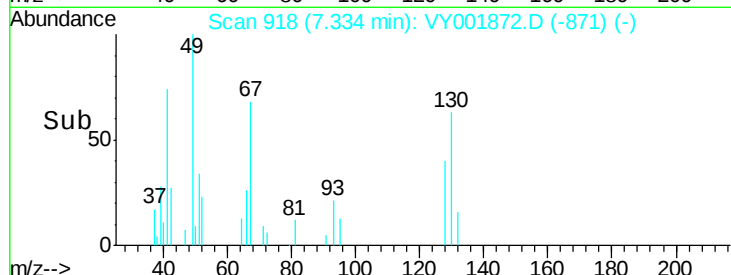
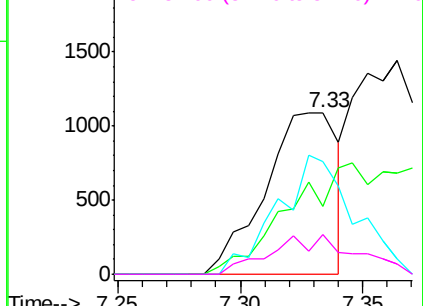


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 67.00 (66.70 to 67.70): VY0

Ion 52.00 (51.70 to 52.70): VY0



#42

1,2-Dichloroethane

Concen: 2.761 ug/l

RT: 8.26 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VY001872.D

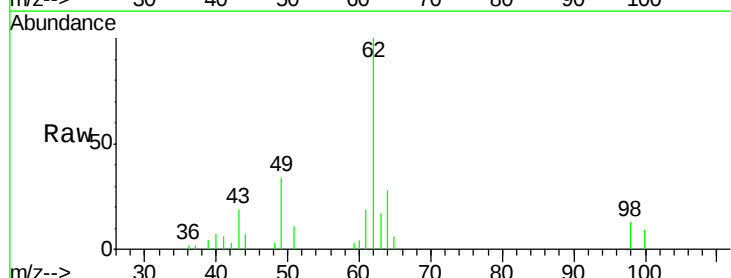
Acq: 05 Mar 2020 11:38

Tgt Ion: 62 Resp: 6162

Ion Ratio Lower Upper

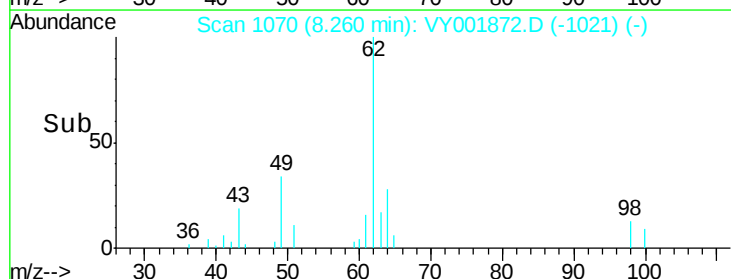
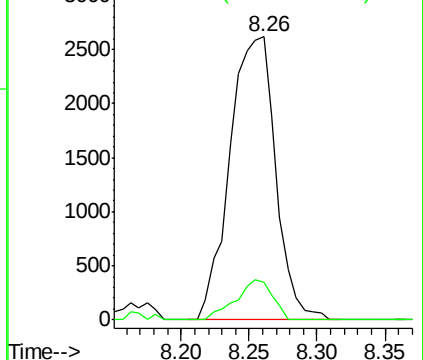
62 100

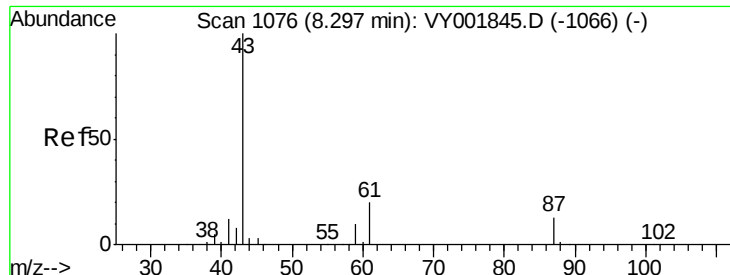
98 11.3 0.0 21.4



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 97.90 (97.60 to 98.60): VY0





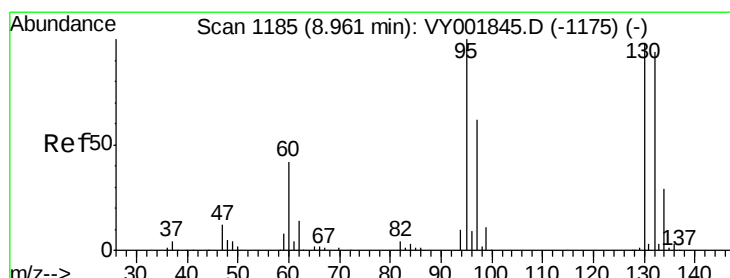
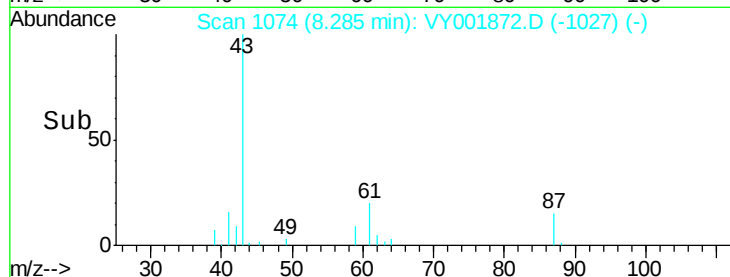
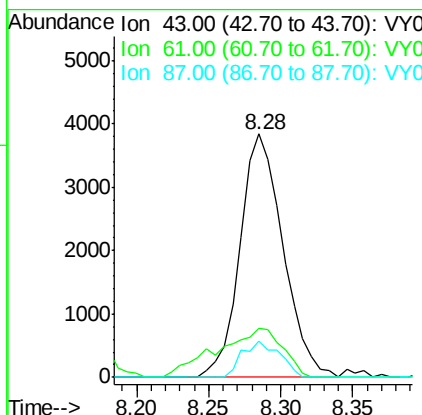
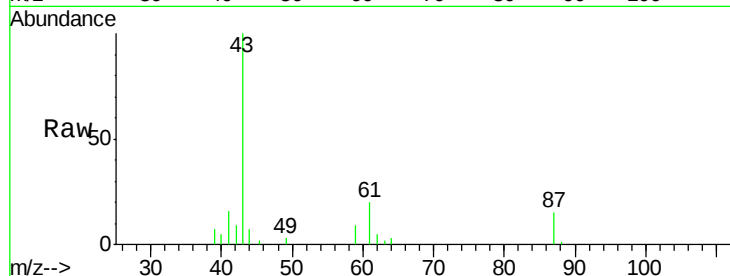
#43
Isopropyl Acetate
Concen: 2.470 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.0	23.8	35.6
87	12.9	10.9	16.3

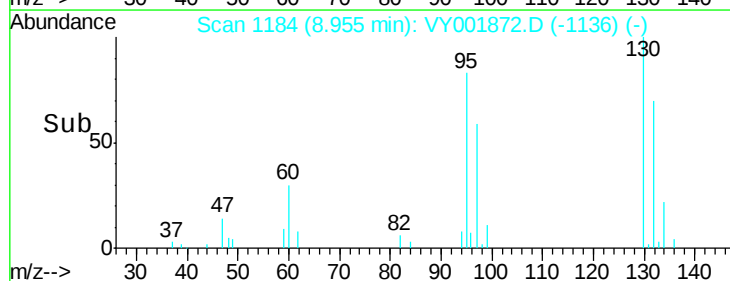
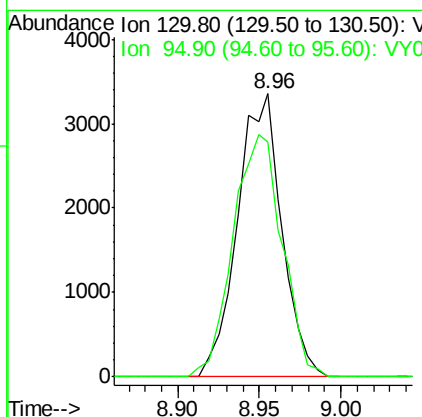
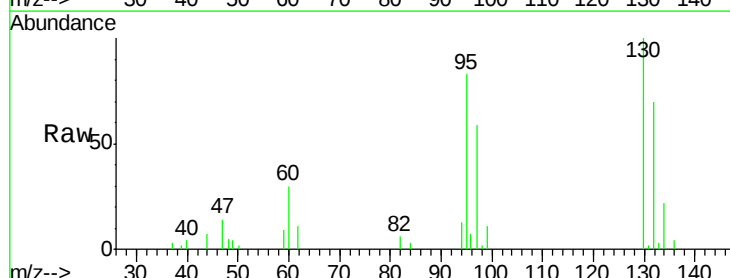
Manual Integrations
APPROVED

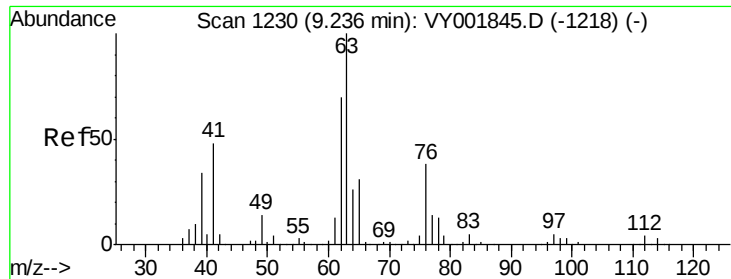
MMDadoda
3/6/2020 11:16:51 AM



#44
Trichloroethene
Concen: 3.000 ug/l
RT: 8.96 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
130	100		
95	82.8	0.0	204.6





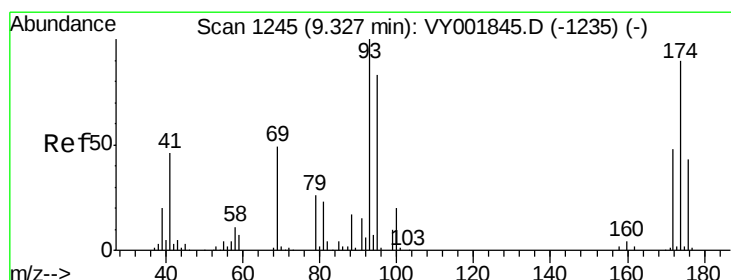
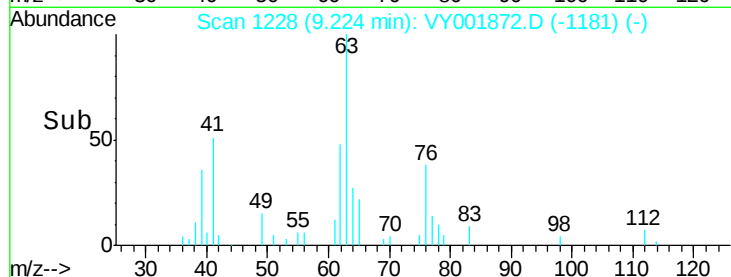
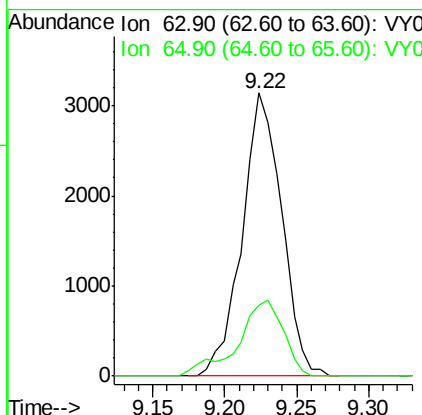
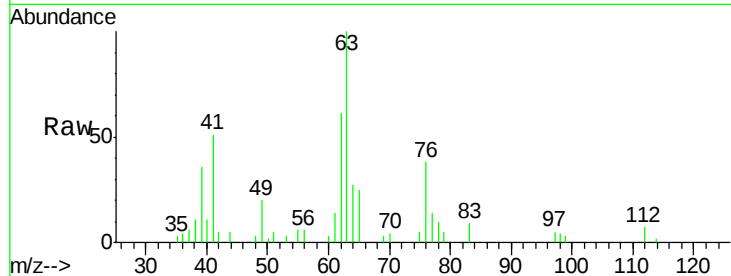
#45
 1,2-Dichloropropane
 Concen: 2.741 ug/l
 RT: 9.22 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion: 63 Resp: 5967
 Ion Ratio Lower Upper
 63 100
 65 25.1 24.9 37.3

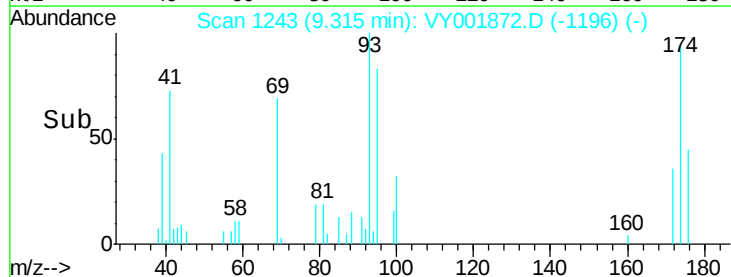
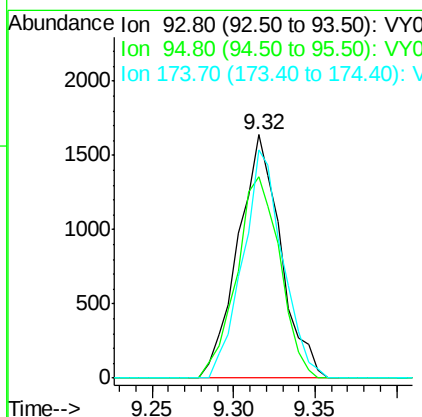
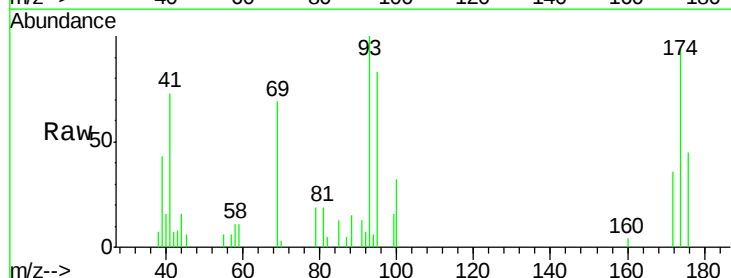
Manual Integrations
 APPROVED

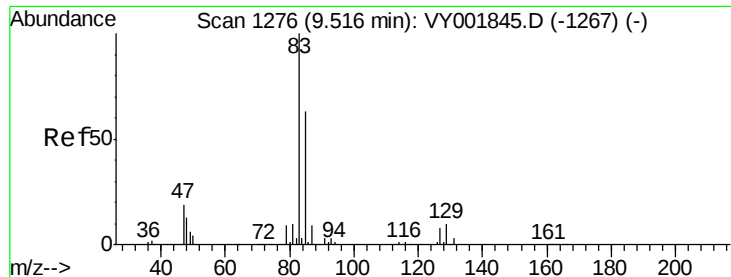
MMDadoda
 3/6/2020 11:16:51 AM



#46
 Dibromomethane
 Concen: 2.663 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion: 93 Resp: 2988
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.0 100.4
 174 87.6 71.8 107.8





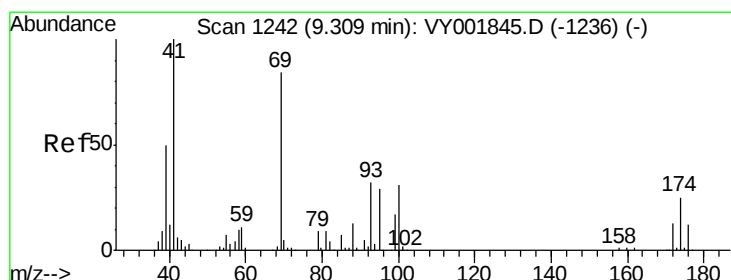
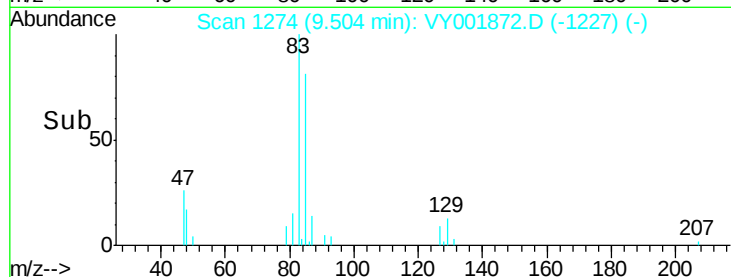
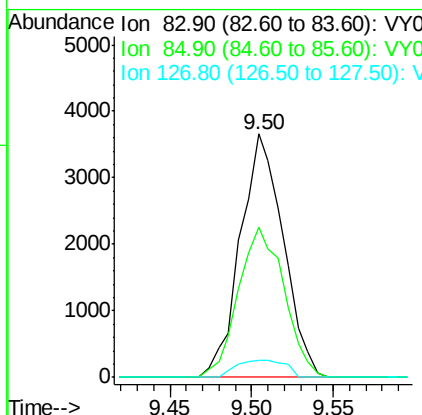
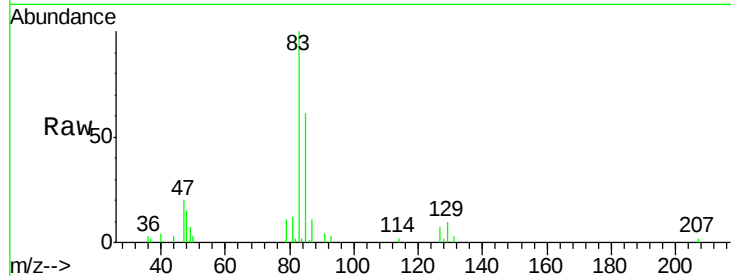
#47
Bromodichloromethane
Concen: 2.571 ug/l
RT: 9.50 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	83	Resp	6710
Ion Ratio	100	Lower	Upper
83	100		
85	61.4	50.6	76.0
127	7.2	6.2	9.4

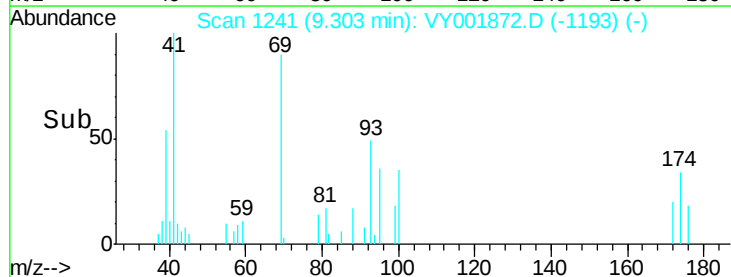
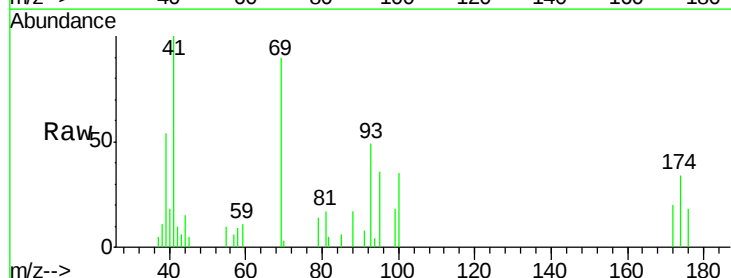
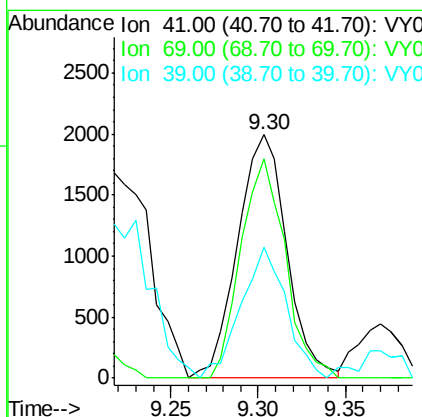
Manual Integrations
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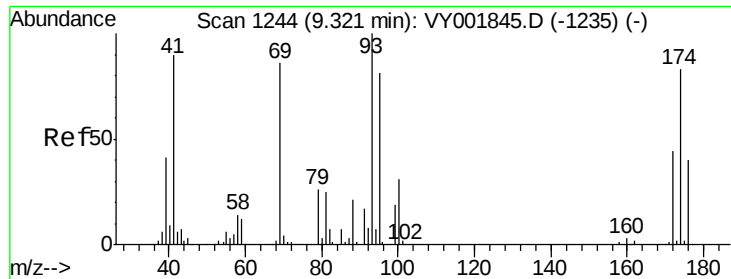
MMDadoda
3/6/2020 11:16:51 AM



#48
Methyl methacrylate
Concen: 2.748 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	41	Resp	3920
Ion Ratio	100	Lower	Upper
41	100		
69	81.8	69.0	103.6
39	49.4	39.1	58.7





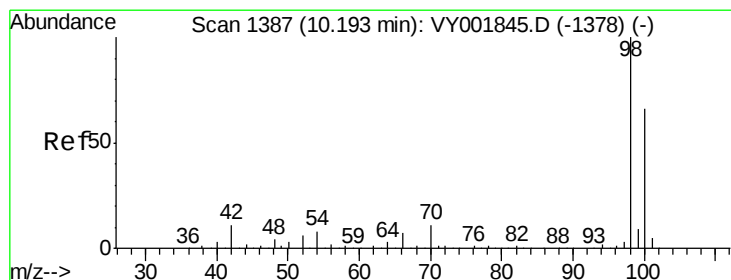
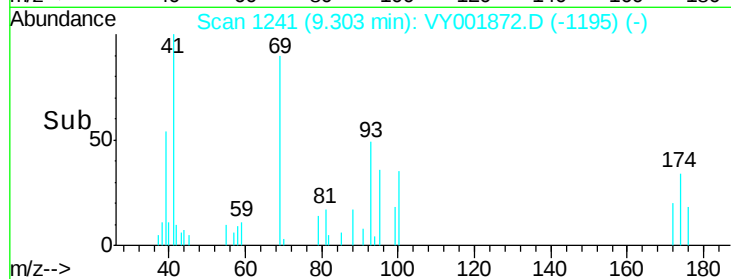
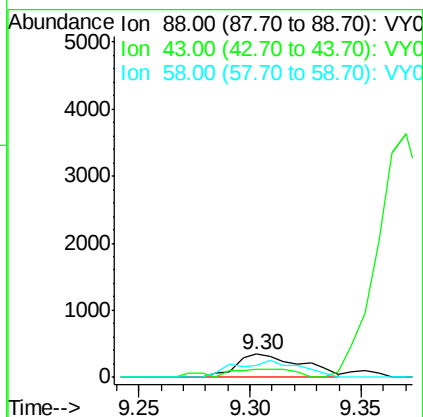
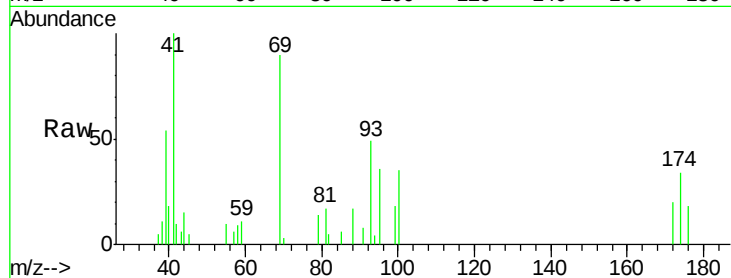
#49
 1,4-Dioxane
 Concen: 45.925 ug/l
 RT: 9.30 min Scan# 1241
 Delta R.T. -0.02 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.5	25.0	37.6#
58	72.2	58.9	88.3

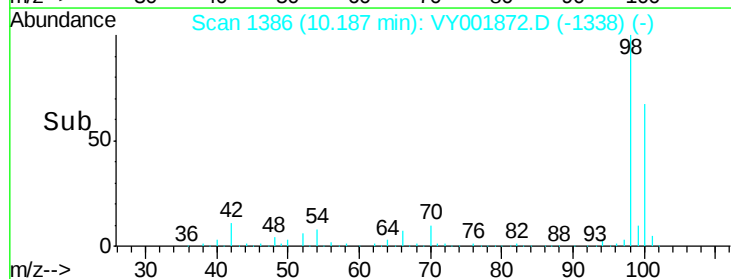
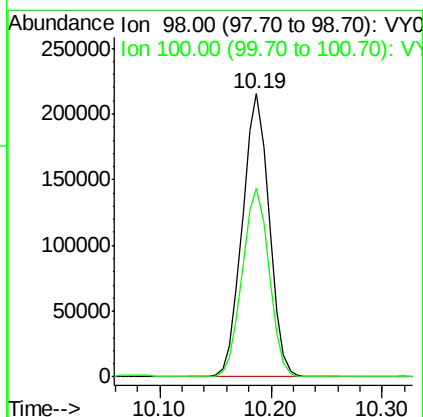
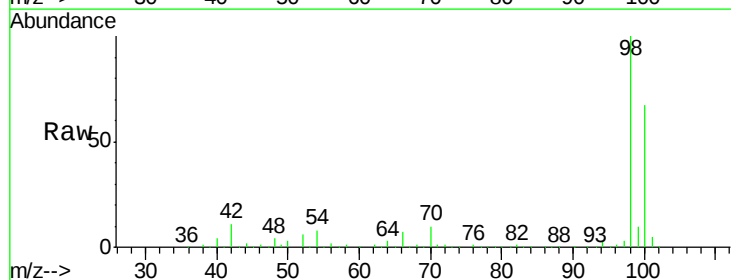
Manual Integrations
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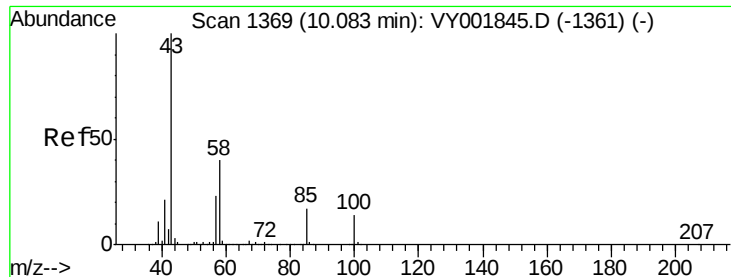
MMDadoda
 3/6/2020 11:16:51 AM



#50
 Toluene-d8
 Concen: 51.470 ug/l
 RT: 10.19 min Scan# 1386
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 12.622 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 20902

Ion Ratio Lower Upper

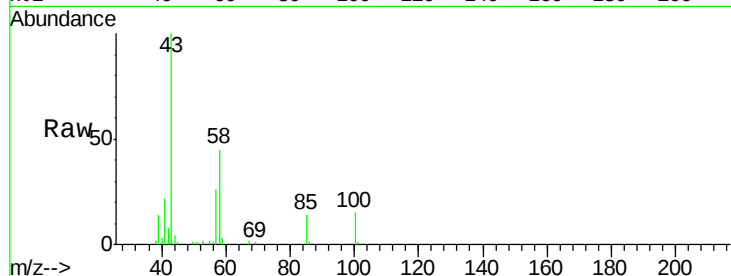
43 100

58 39.3 32.0 48.0

Manual Integrations
APPROVED

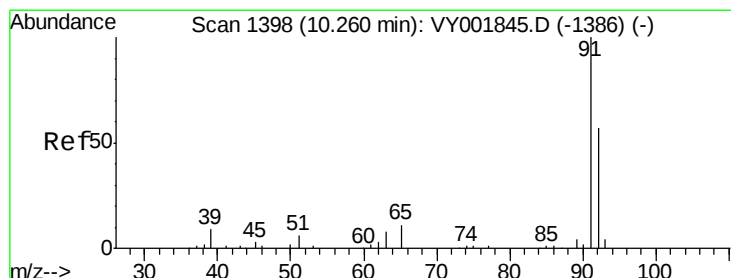
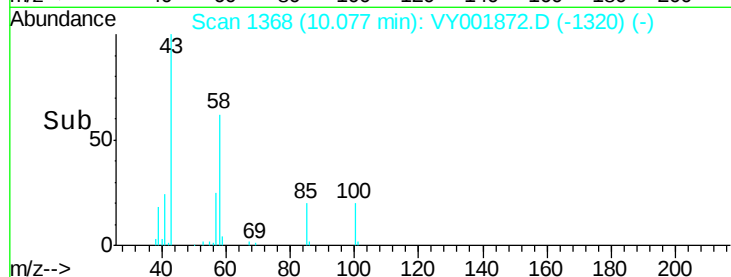
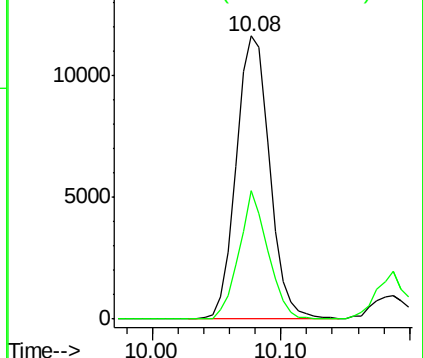
MMDadoda

3/6/2020 11:16:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#52

Toluene

Concen: 2.786 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY001872.D

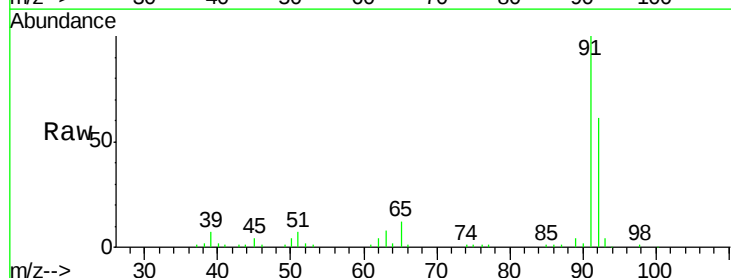
Acq: 05 Mar 2020 11:38

Tgt Ion: 92 Resp: 14659

Ion Ratio Lower Upper

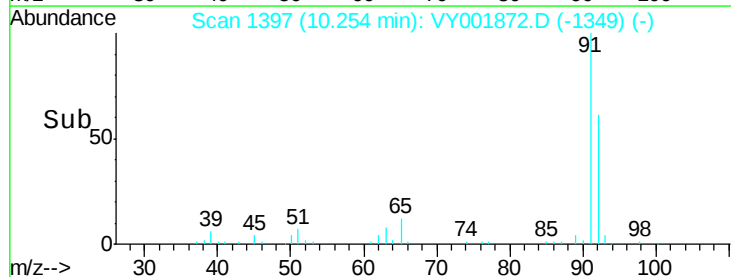
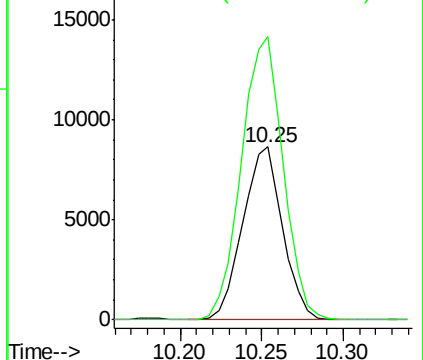
92 100

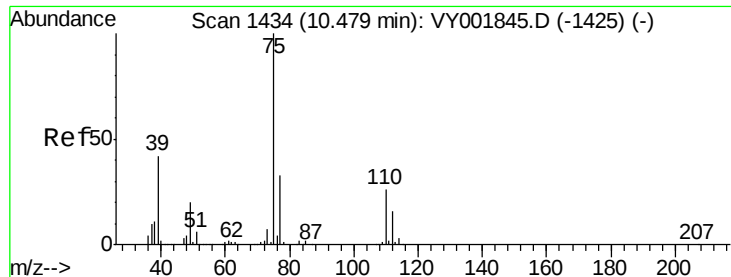
91 171.6 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0





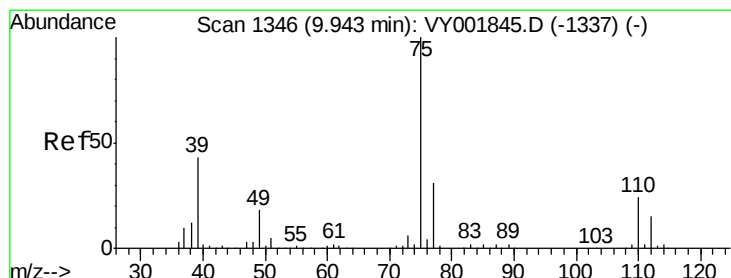
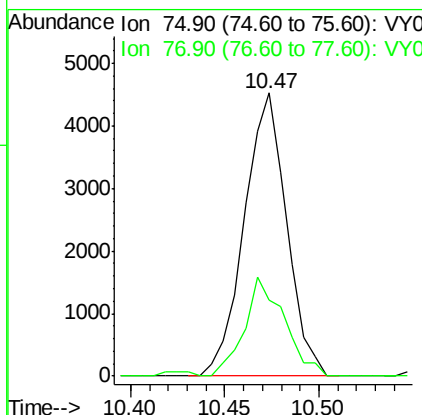
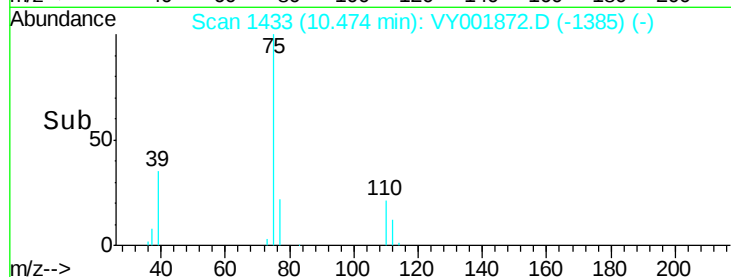
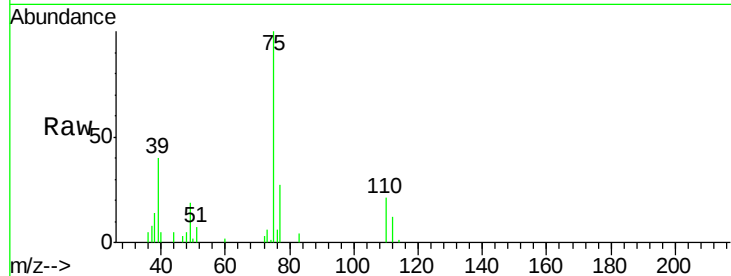
#53
t-1,3-Dichloropropene
Concen: 2.476 ug/l
RT: 10.47 min Scan# 1433
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleID :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 75 Resp: 7041
Ion Ratio Lower Upper
75 100
77 26.8 26.3 39.5

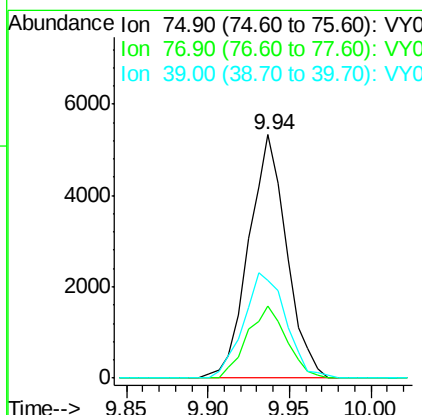
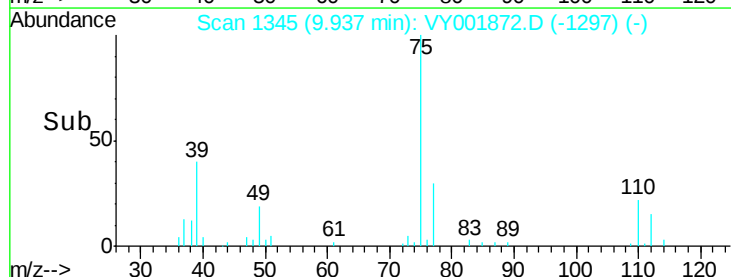
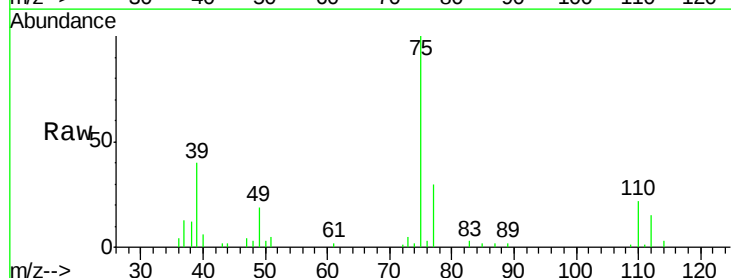
Manual Integrations
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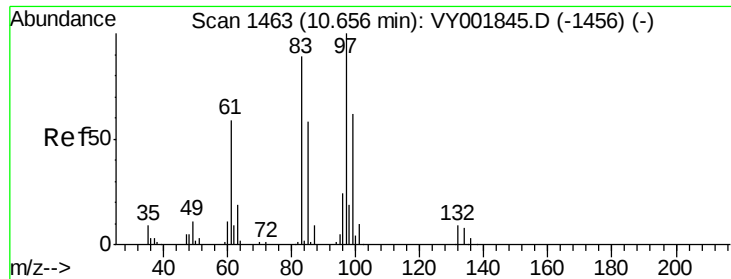
MMDadoda
3/6/2020 11:16:51 AM



#54
cis-1,3-Dichloropropene
Concen: 2.540 ug/l
RT: 9.94 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion: 75 Resp: 8597
Ion Ratio Lower Upper
75 100
77 29.9 25.1 37.7
39 40.1 34.7 52.1





#55

1,1,2-Trichloroethane

Concen: 2.680 ug/l

RT: 10.66 min Scan# 1463

Delta R.T. 0.00 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

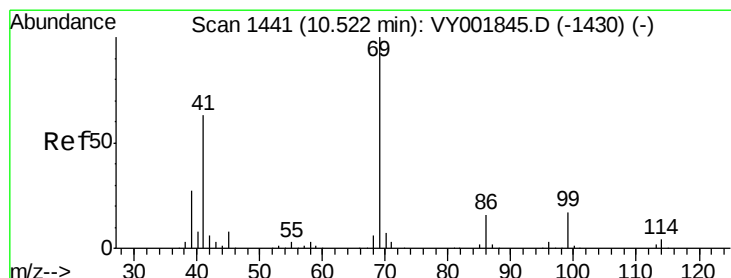
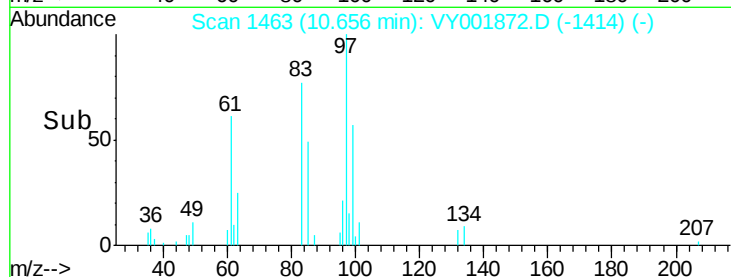
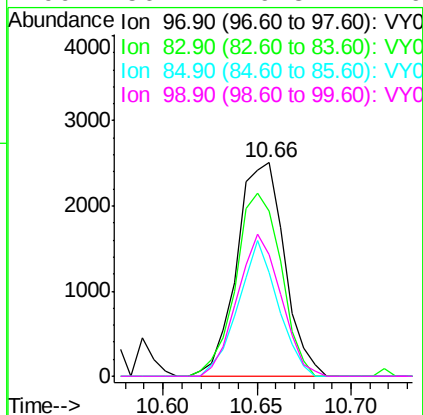
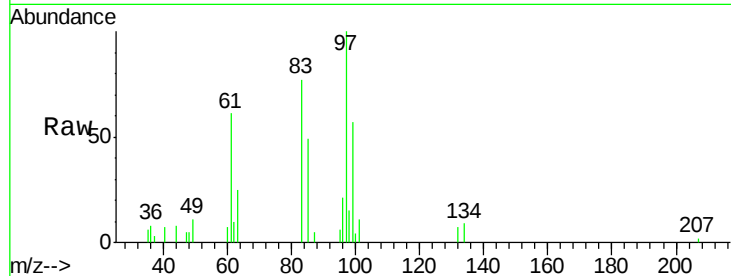
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	97	Resp:	4401
Ion	Ratio	Lower	Upper
97	100		
83	77.3	71.6	107.4
85	48.6	46.6	69.8
99	56.7	49.8	74.6

Manual Integrations
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MMDadoda
3/6/2020 11:16:51 AM



#56

Ethyl methacrylate

Concen: 2.361 ug/l

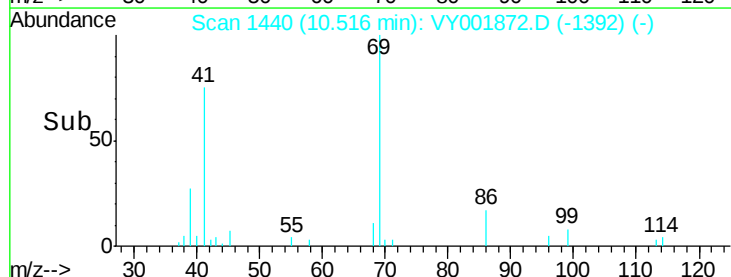
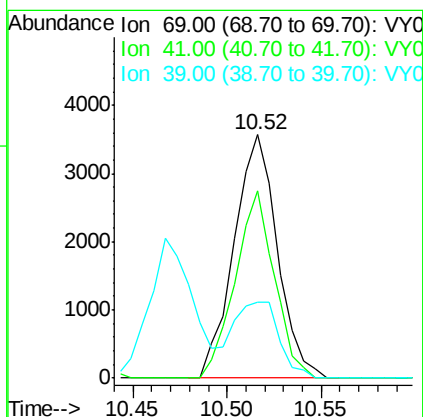
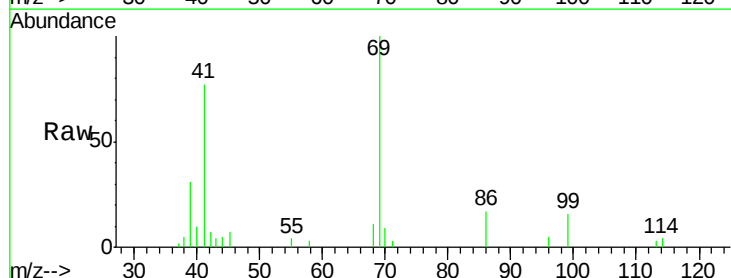
RT: 10.52 min Scan# 1440

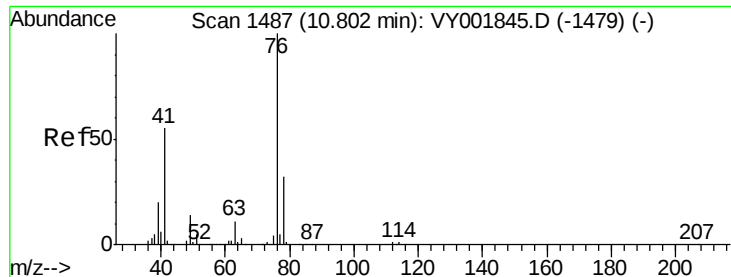
Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion:	69	Resp:	5682
Ion	Ratio	Lower	Upper
69	100		
41	69.6	49.9	74.9
39	34.8	23.0	34.6#





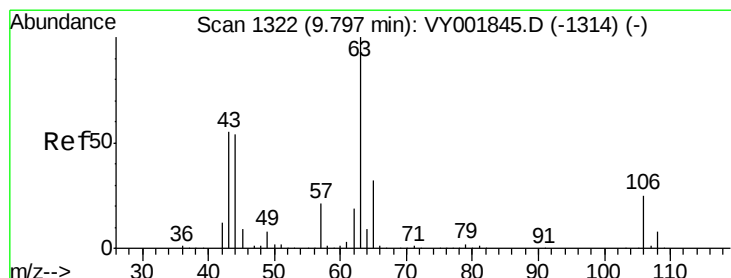
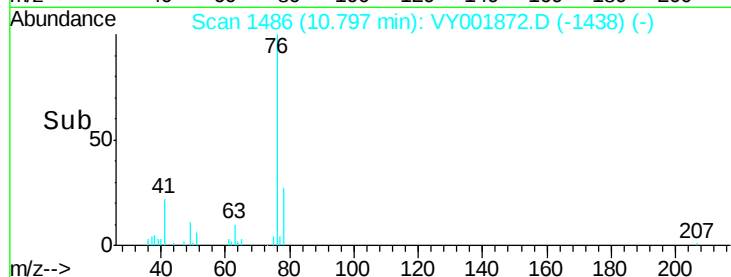
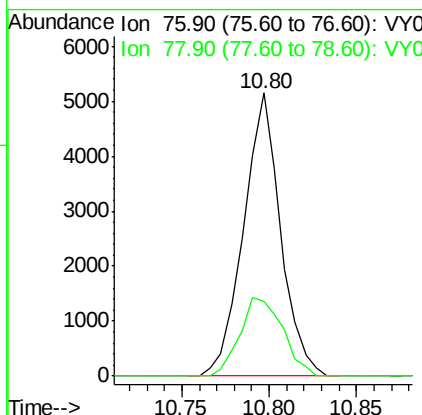
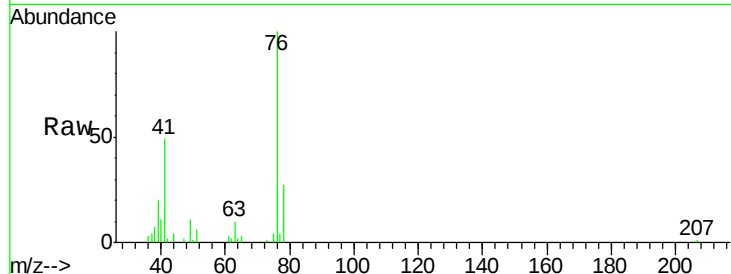
#57
 1,3-Dichloropropane
 Concen: 2.592 ug/l
 RT: 10.80 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6

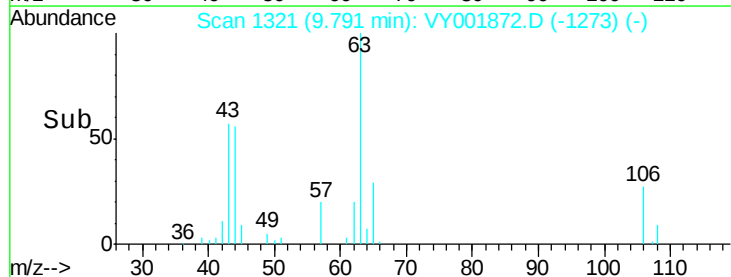
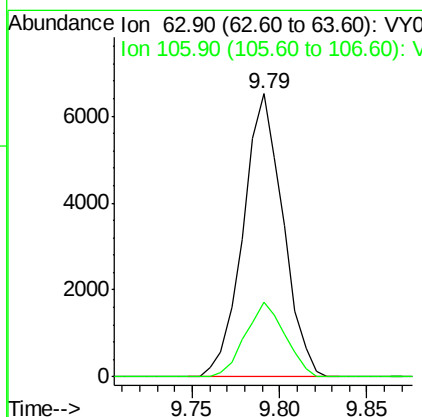
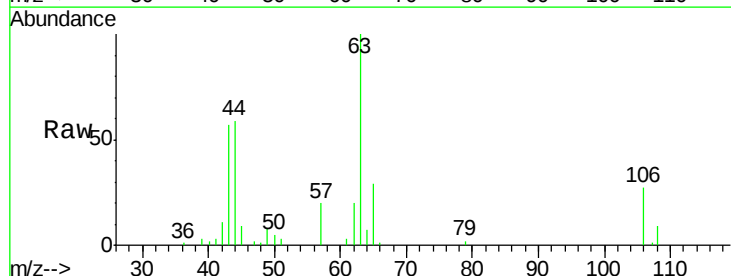
Manual Integrations
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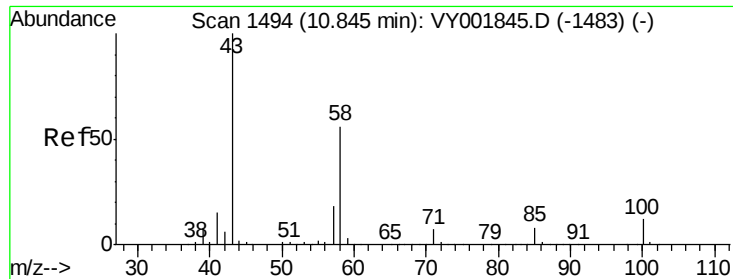
MMDadoda
 3/6/2020 11:16:51 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.881 ug/l
 RT: 9.79 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.3	31.9





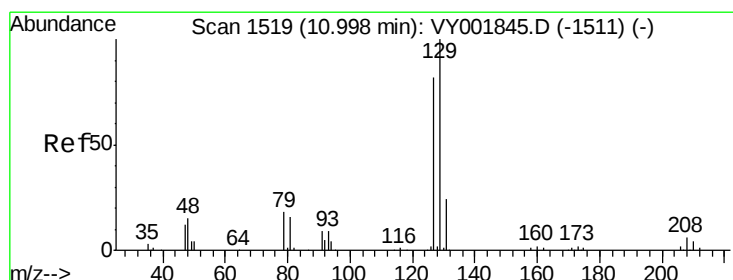
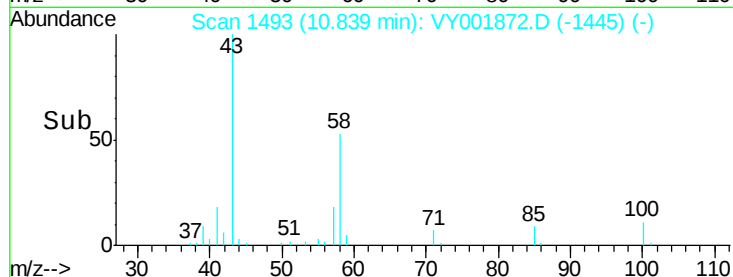
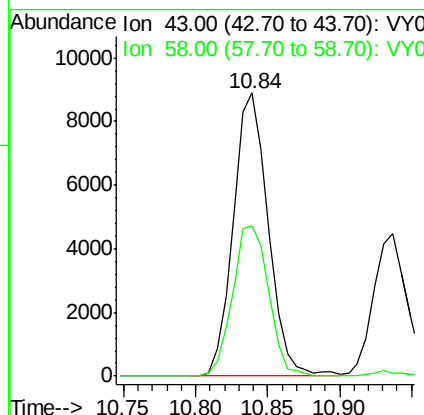
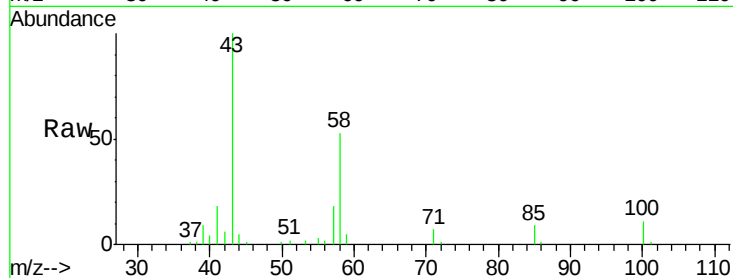
#59
2-Hexanone
Concen: 12.740 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 15059
Ion Ratio Lower Upper
43 100
58 54.7 28.1 84.3

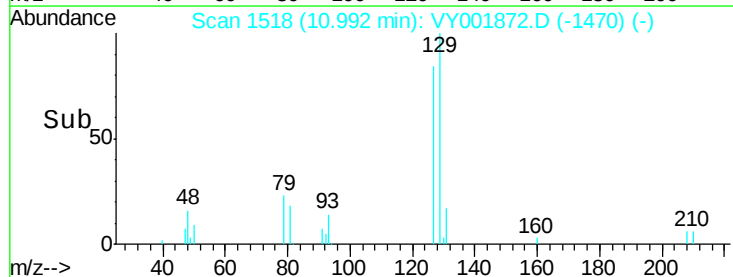
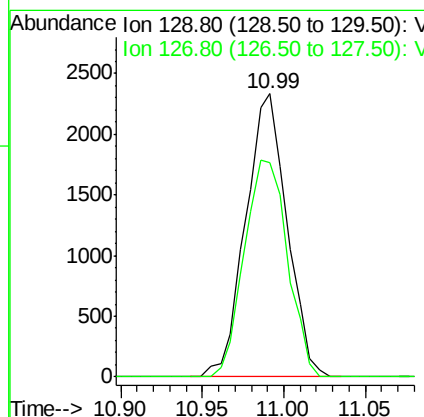
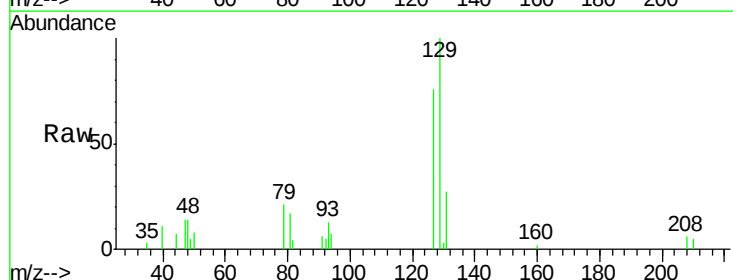
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#60
Dibromochloromethane
Concen: 2.385 ug/l
RT: 10.99 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion: 129 Resp: 4126
Ion Ratio Lower Upper
129 100
127 79.9 39.0 117.0





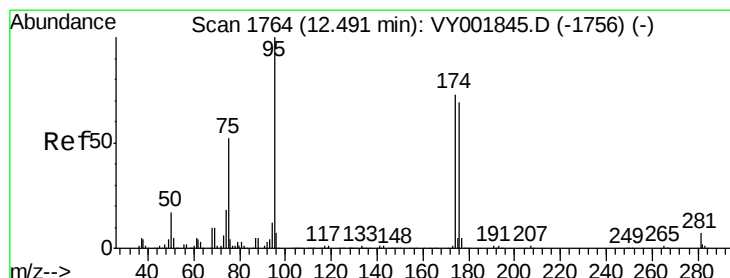
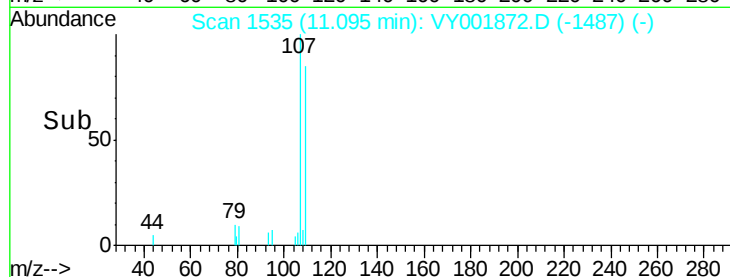
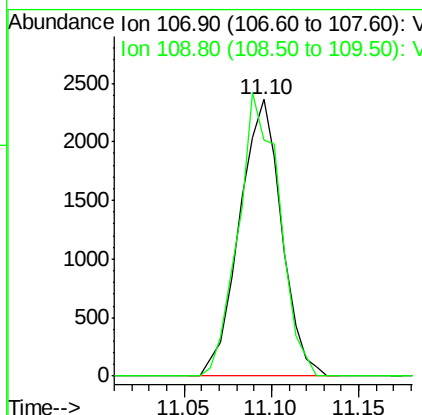
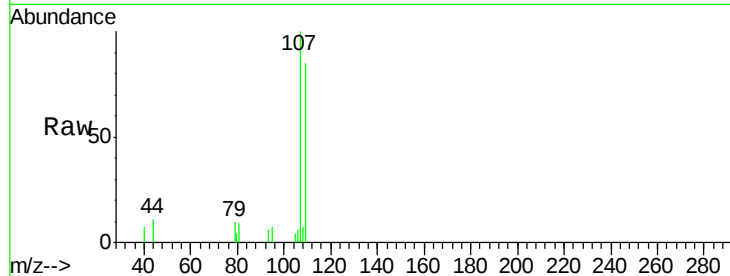
#61
 1,2-Dibromoethane
 Concen: 2.542 ug/l
 RT: 11.10 min Scan# 1535
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion: 107 Resp: 3954
 Ion Ratio Lower Upper
 107 100
 109 99.4 75.4 113.0

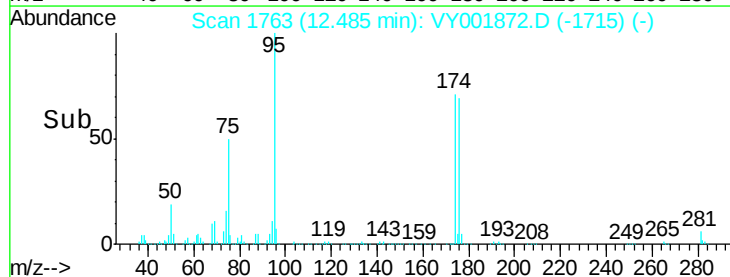
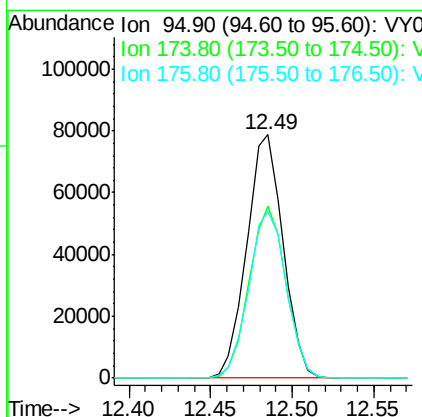
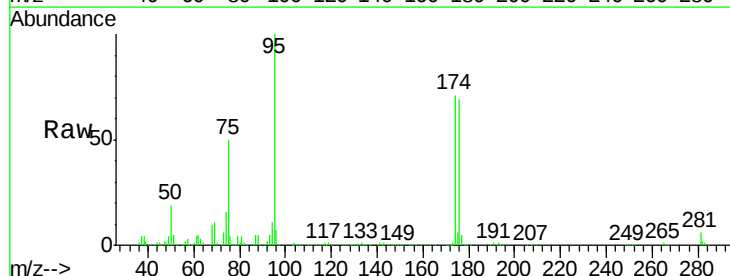
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MMDadoda
 3/6/2020 11:16:51 AM



#62
 4-Bromofluorobenzene
 Concen: 50.381 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion: 95 Resp: 122478
 Ion Ratio Lower Upper
 95 100
 174 71.3 0.0 145.0
 176 70.6 0.0 137.4





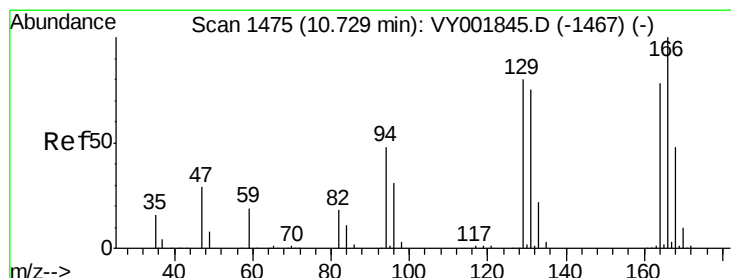
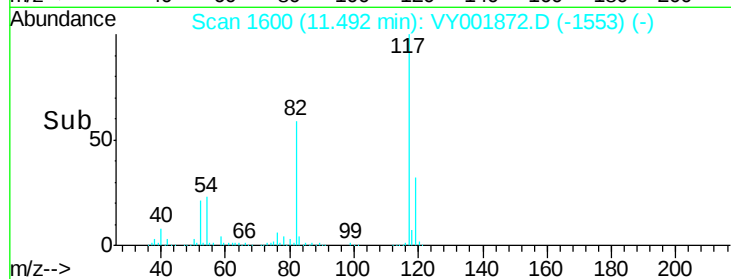
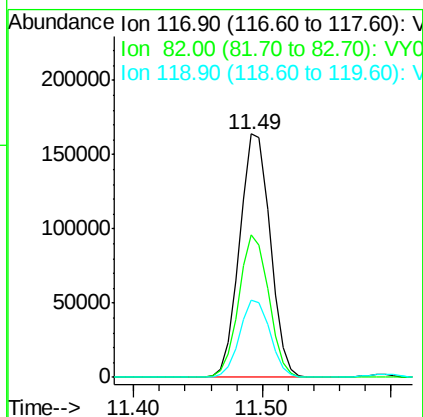
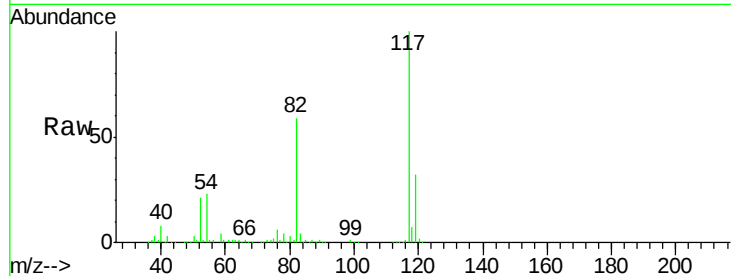
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	269863		
82	58.6		44.5	66.7
119	31.8		25.7	38.5

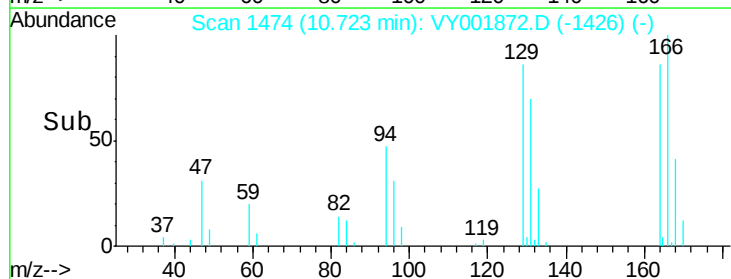
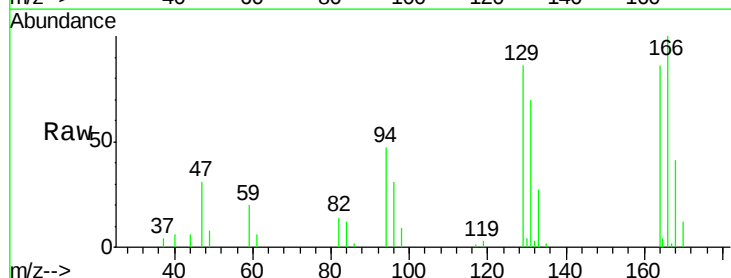
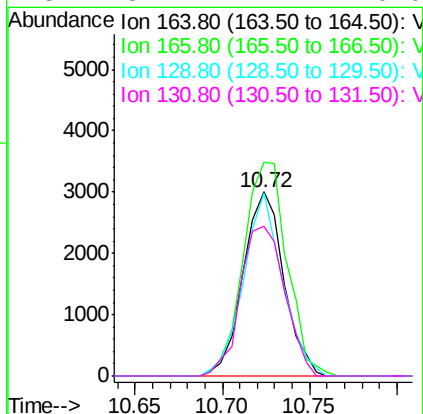
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#64
Tetrachloroethene
Concen: 2.870 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	4857		
166	116.1		102.6	154.0
129	99.5		82.3	123.5
131	81.7		77.4	116.0





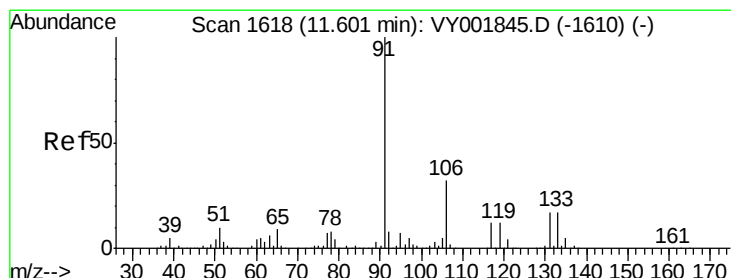
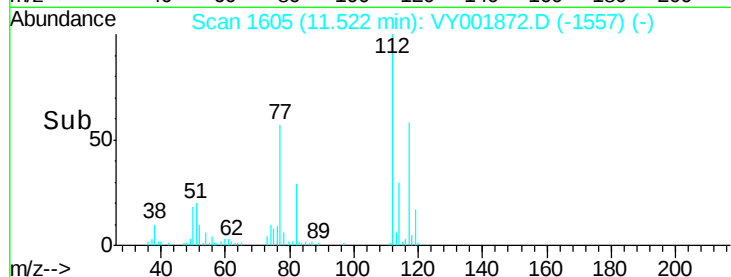
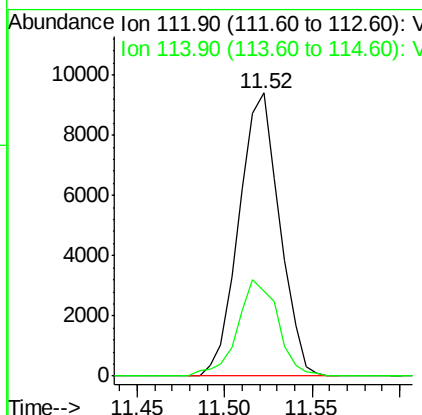
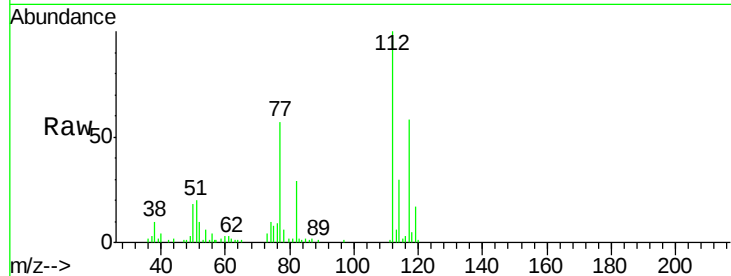
#65
Chlorobenzene
Concen: 2.824 ug/l
RT: 11.52 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 15183
Ion Ratio Lower Upper
112 100
114 30.2 25.9 38.9

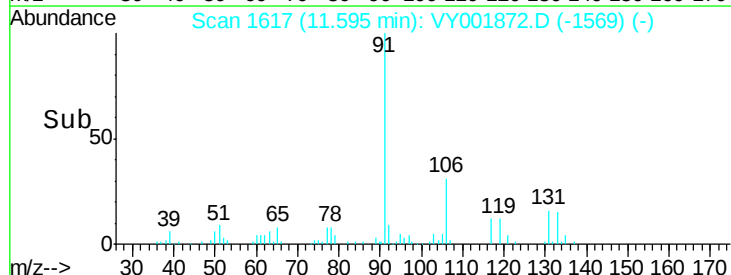
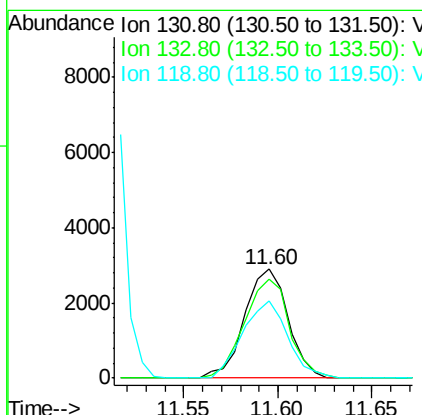
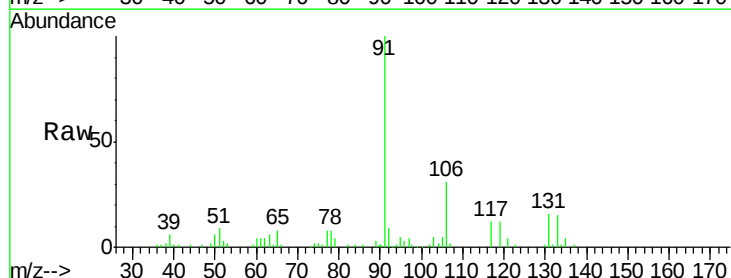
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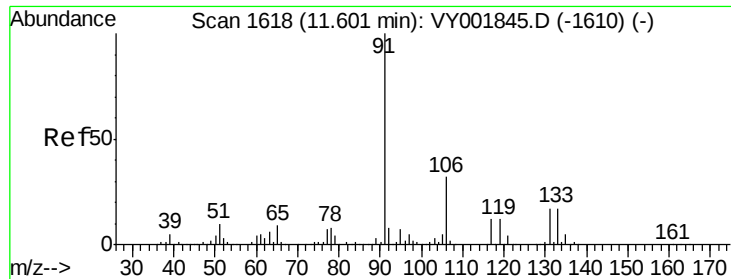
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.632 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion:131 Resp: 4641
Ion Ratio Lower Upper
131 100
133 93.5 47.1 141.3
119 73.2 34.5 103.6





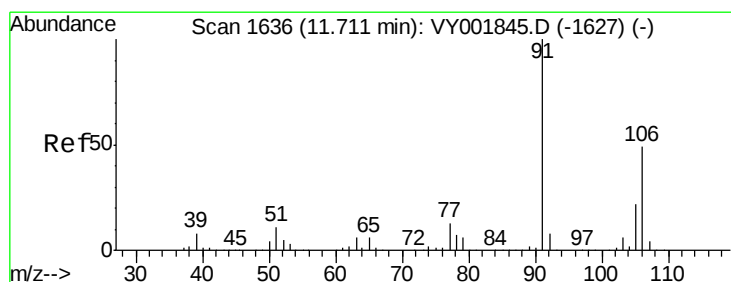
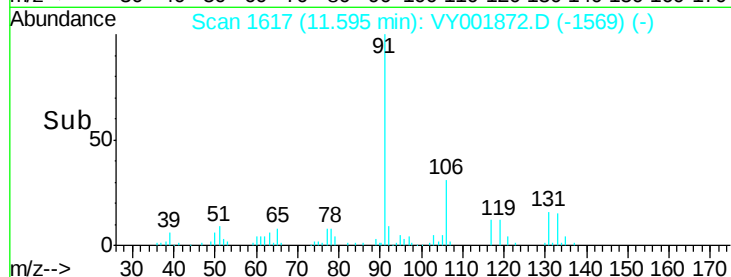
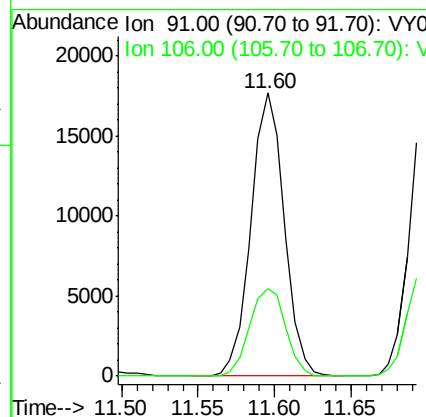
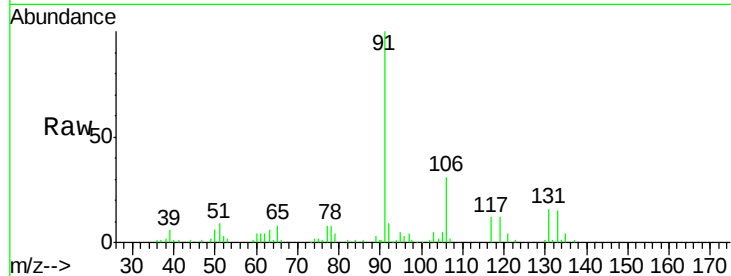
#67
Ethyl Benzene
Concen: 2.665 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 26724
Ion Ratio Lower Upper
91 100
106 30.8 25.4 38.2

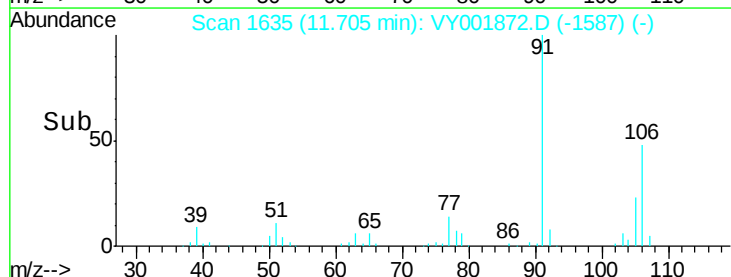
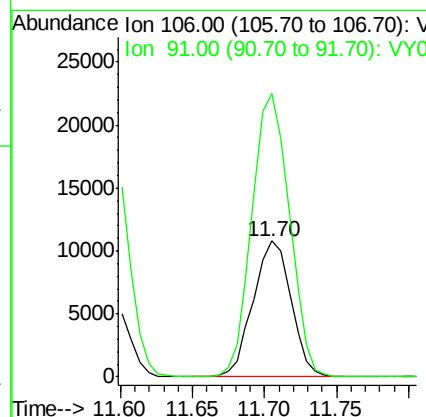
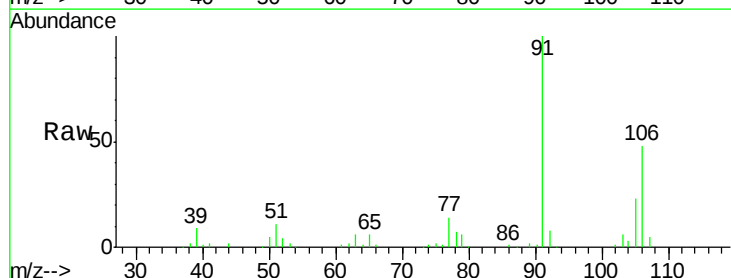
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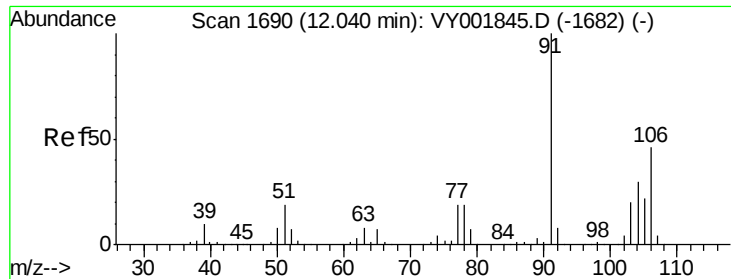
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#68
m/p-Xylenes
Concen: 5.310 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion: 106 Resp: 19689
Ion Ratio Lower Upper
106 100
91 206.3 161.3 241.9





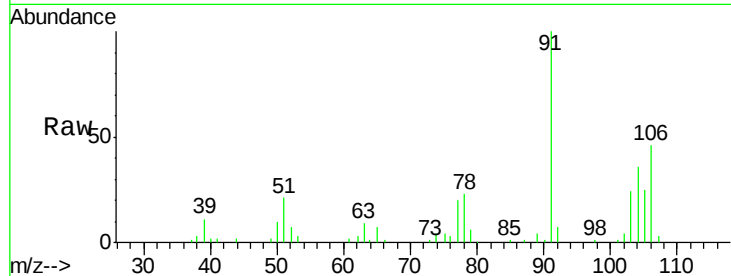
#69
o-Xylene
Concen: 2.668 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

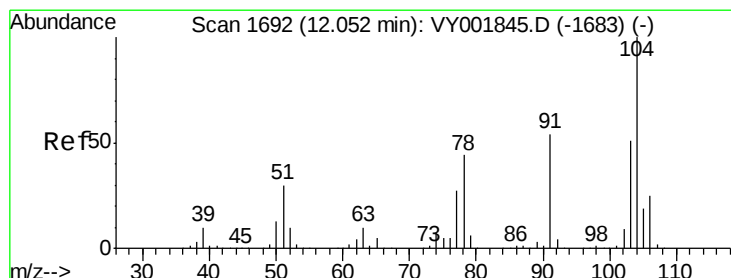
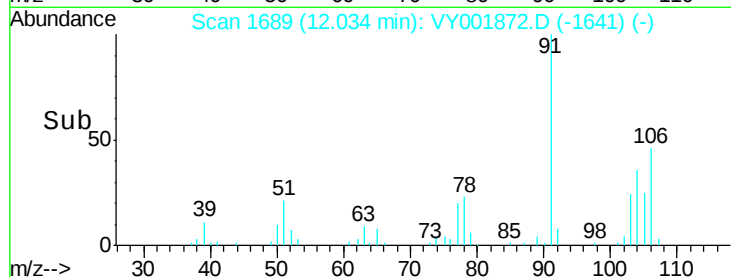
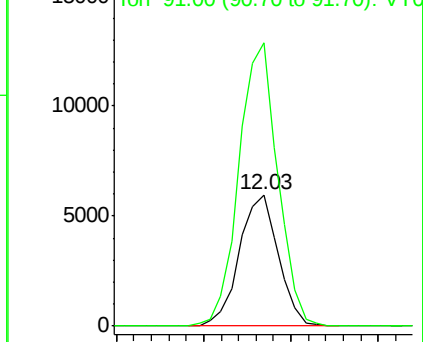
Tot Ion	Ratio	Lower	Upper
106	100		
91	213.6	106.8	320.4

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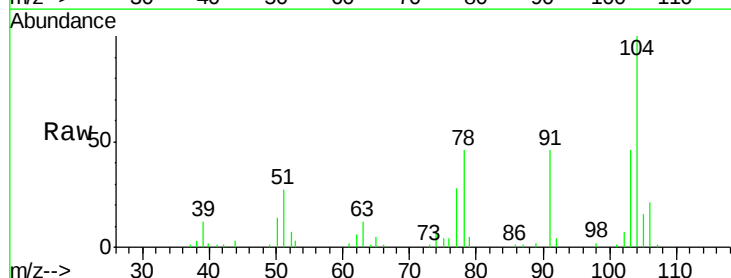


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

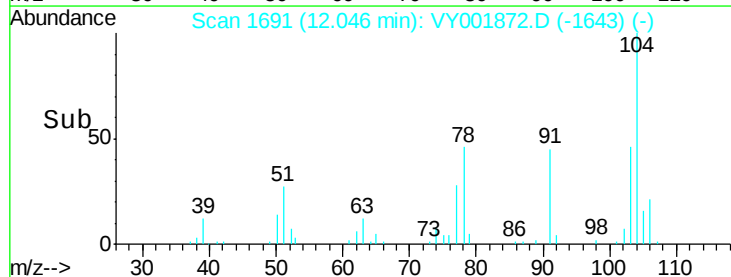
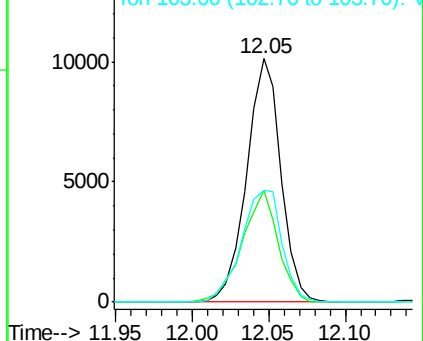


#70
Styrene
Concen: 2.629 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	54.5	42.9	64.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VY0
Ion 103.00 (102.70 to 103.70): V





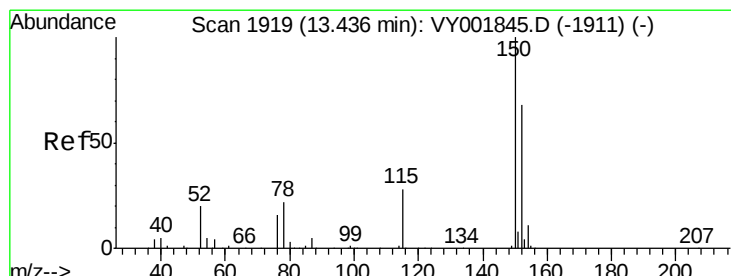
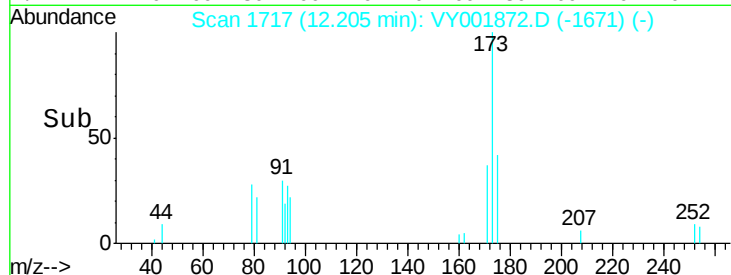
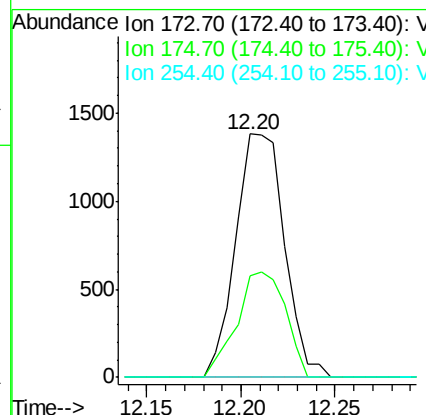
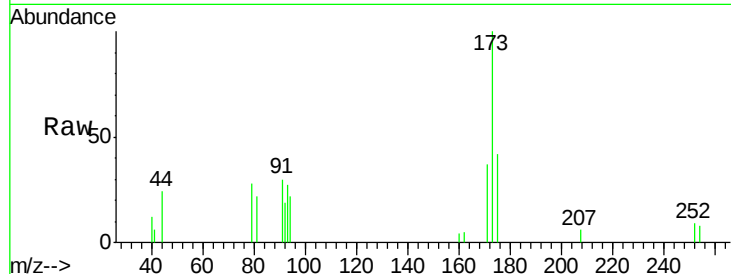
#71
Bromoform
Concen: 2.590 ug/l
RT: 12.20 min Scan# 1717
Delta R.T. -0.02 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	43.4	24.3	72.8
254	0.0	0.0	0.0

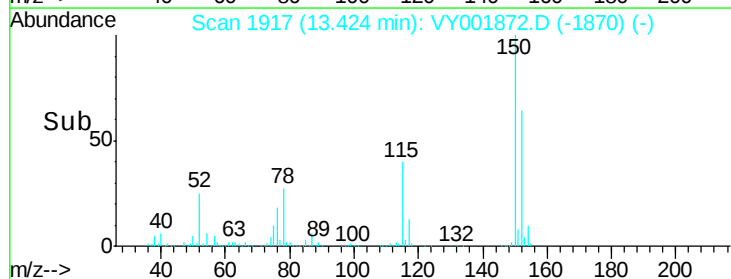
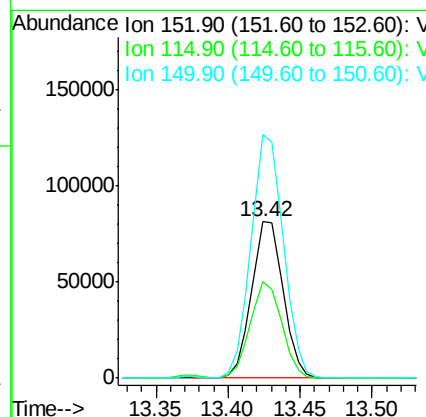
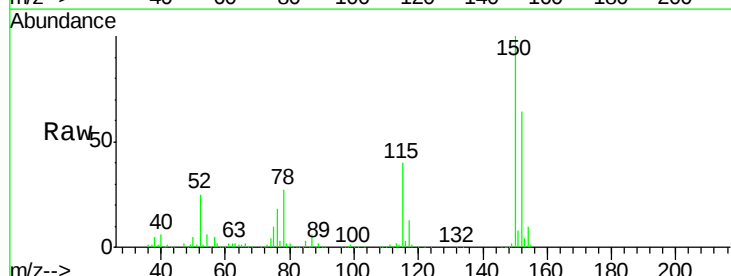
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.4	29.9	89.7
150	159.7	0.0	340.6





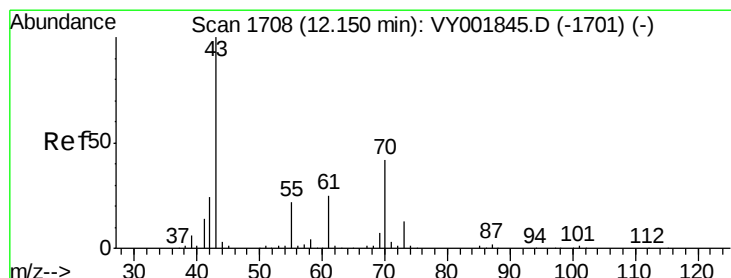
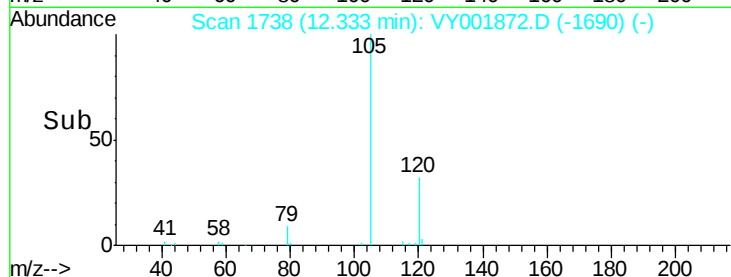
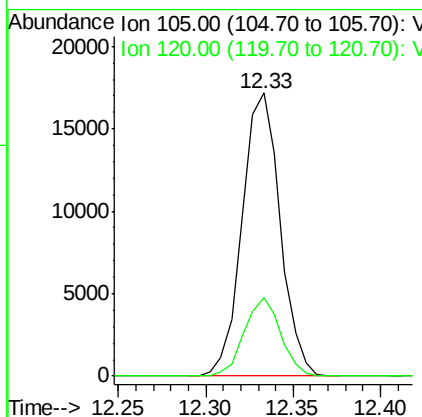
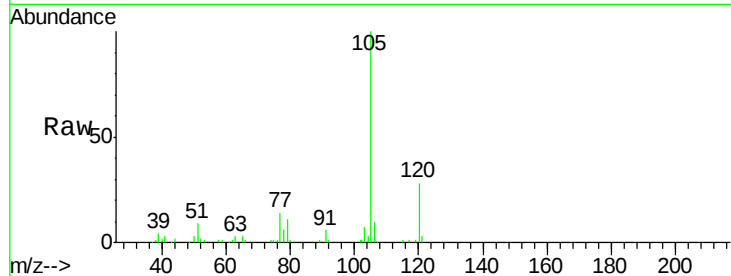
#73
Isopropylbenzene
Concen: 2.751 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3

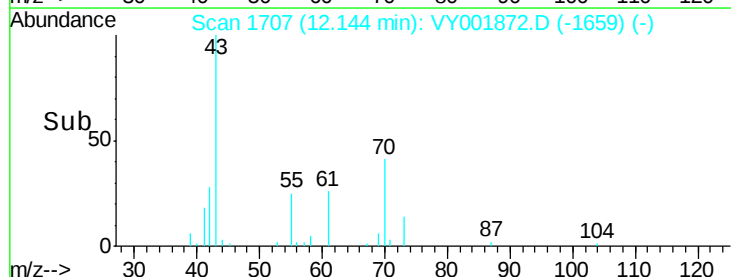
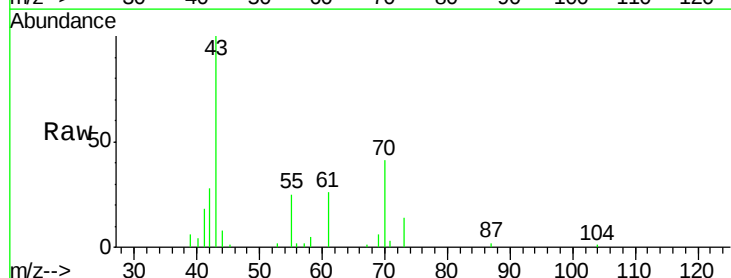
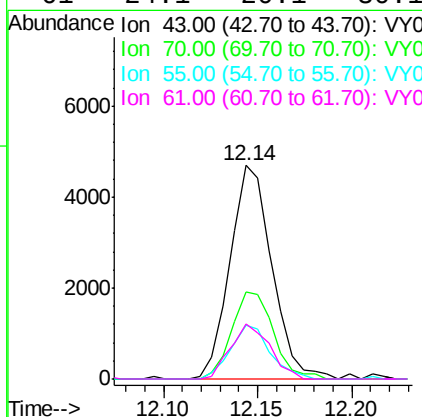
Manual Integrations
APPROVED

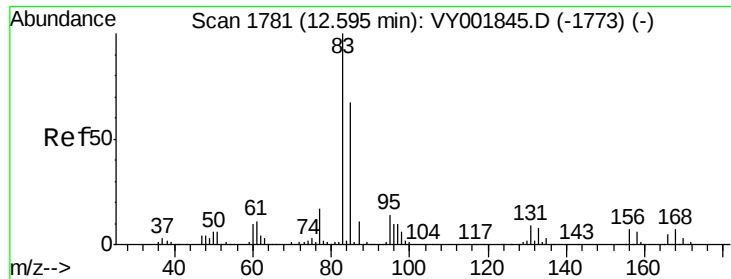
MMDadoda
3/6/2020 11:16:51 AM



#74
N-ethyl acetate
Concen: 2.501 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.4	34.7	52.1
55	24.2	18.2	27.4
61	24.1	20.1	30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 2.446 ug/l

RT: 12.59 min Scan# 1780

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

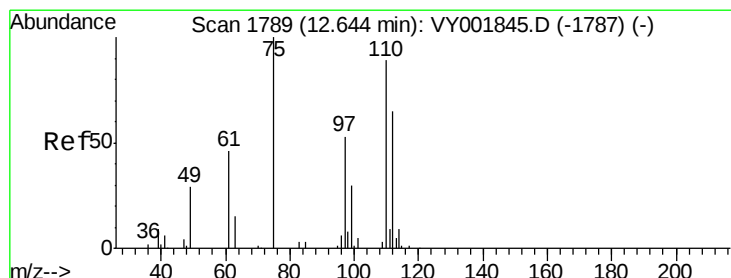
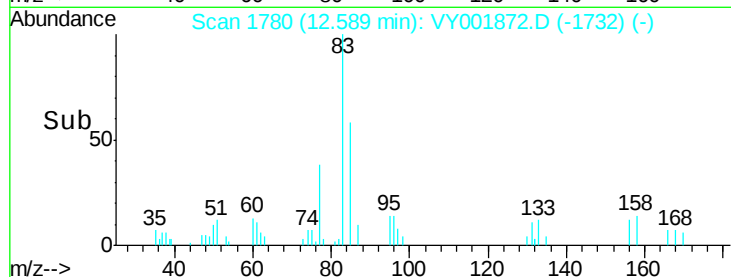
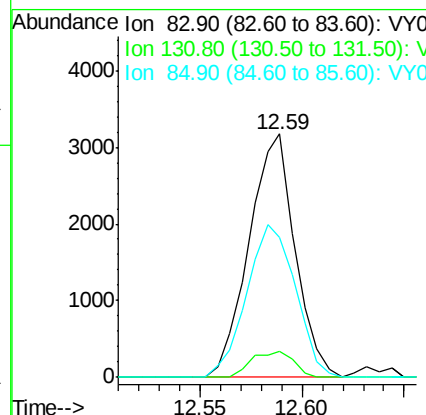
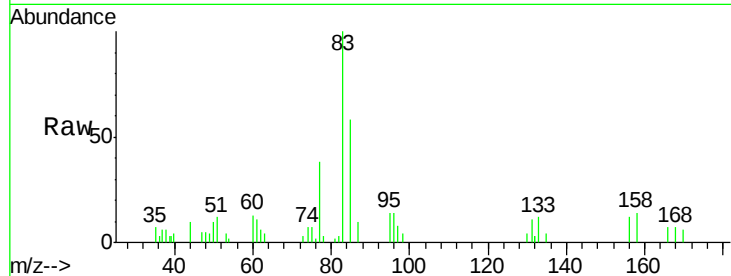
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:	83	Resp:	4975
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.6	13.8
85	66.6	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.154 ug/l m

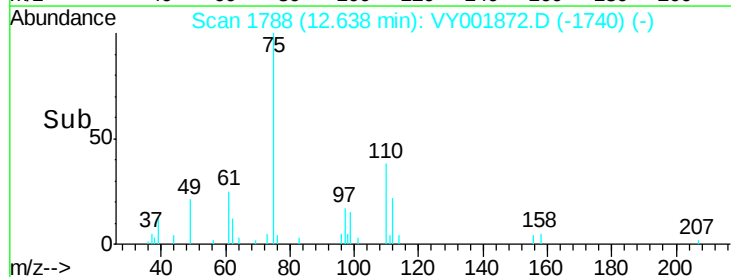
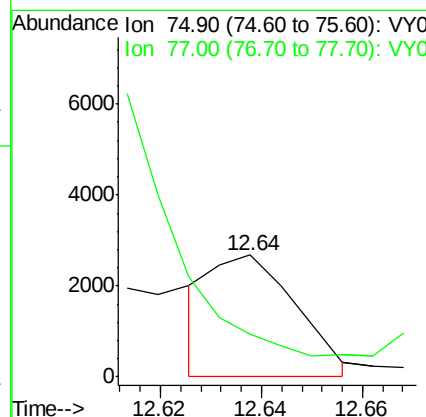
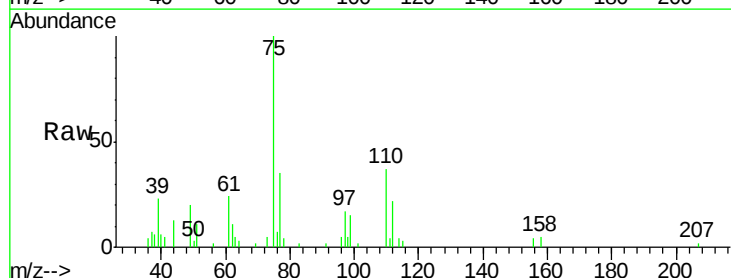
RT: 12.64 min Scan# 1788

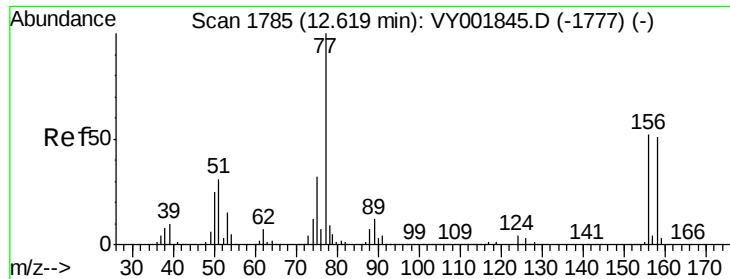
Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion:	75	Resp:	3157
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.786 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

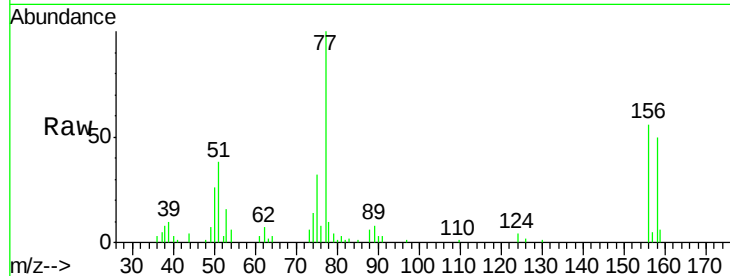
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

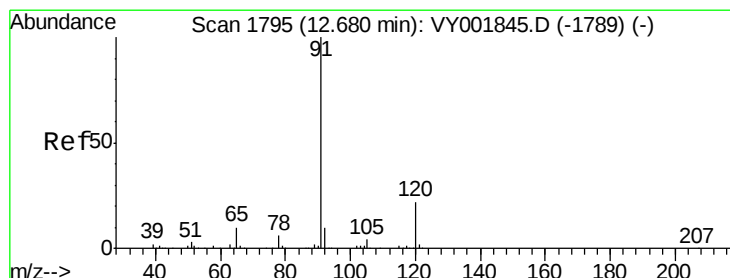
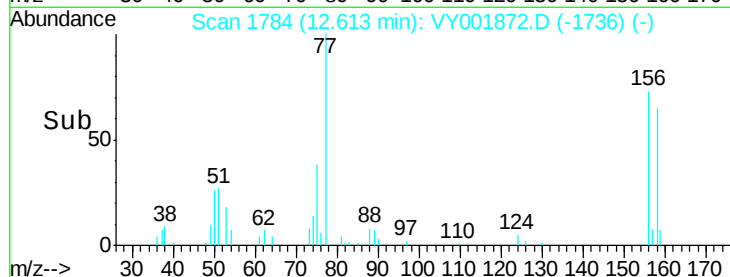
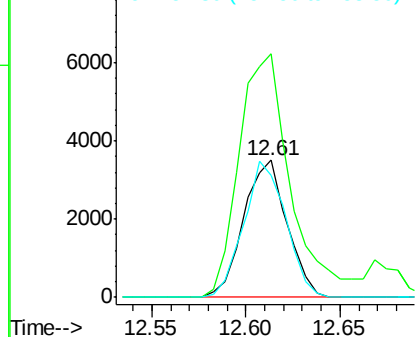
Tot Ion	Ratio	Lower	Upper
156	100		
77	208.9	109.0	327.0
158	96.7	48.9	146.8

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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VY0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.744 ug/l

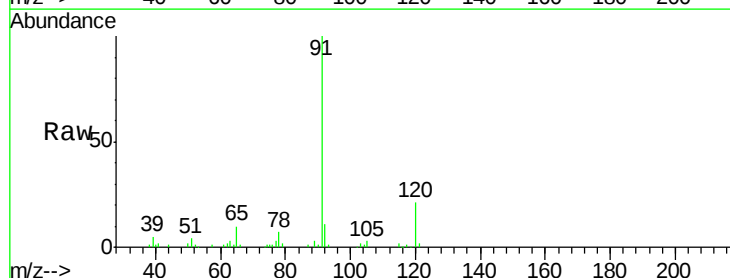
RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

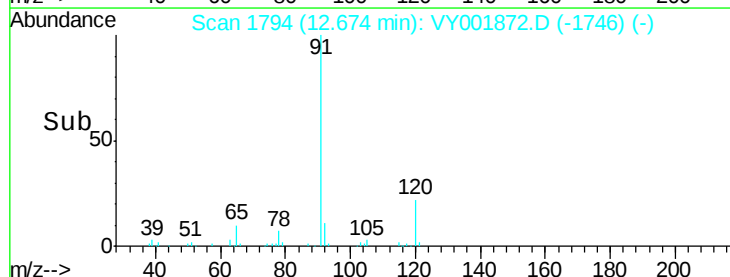
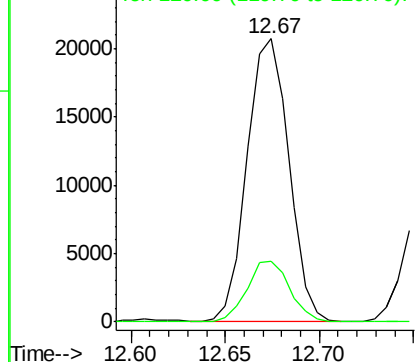
Lab File: VY001872.D

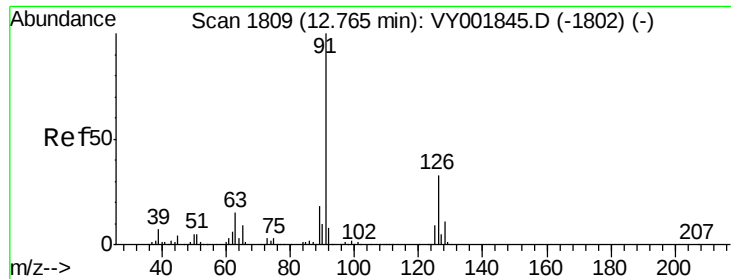
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.724 ug/l

RT: 12.76 min Scan# 1808

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 17509

Ion Ratio Lower Upper

91 100

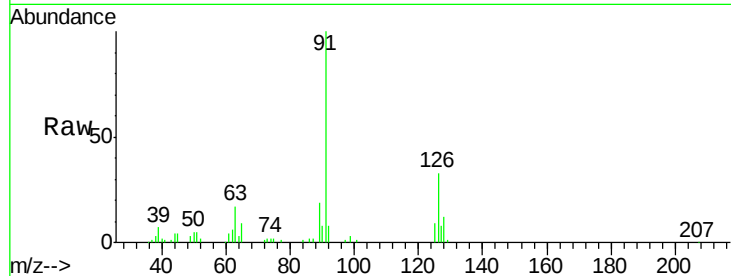
126 34.5 16.3 48.8

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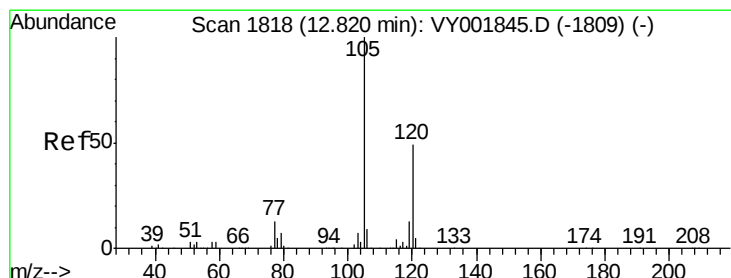
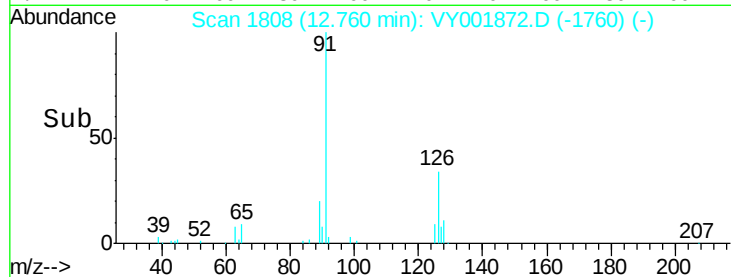
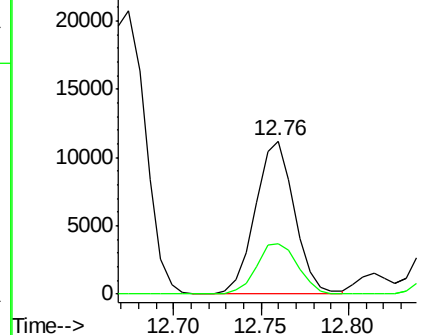
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Abundance Ion 91.00 (90.70 to 91.70): VY001845.D (-1802) (-)

Ion 125.90 (125.60 to 126.60): VY001845.D (-1802) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.731 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001872.D

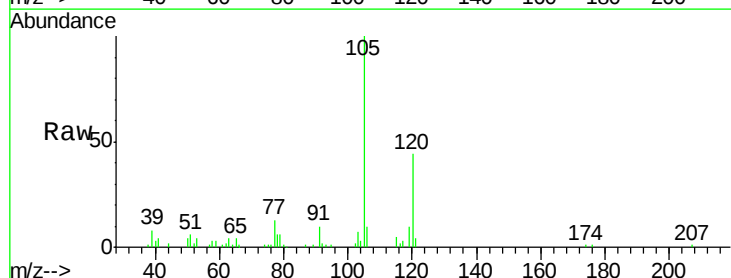
Acq: 05 Mar 2020 11:38

Tgt Ion: 105 Resp: 21206

Ion Ratio Lower Upper

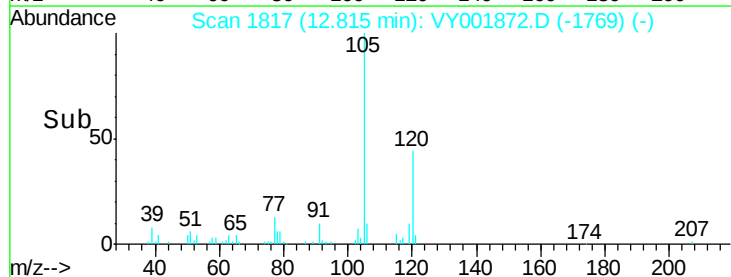
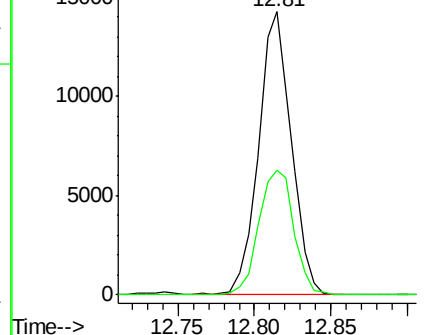
105 100

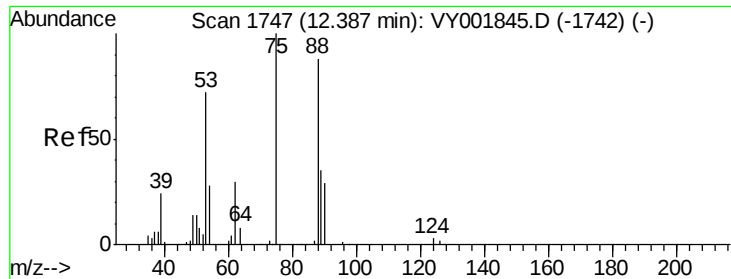
120 47.2 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VY001845.D (-1809) (-)

Ion 120.00 (119.70 to 120.70): VY001845.D (-1809) (-)





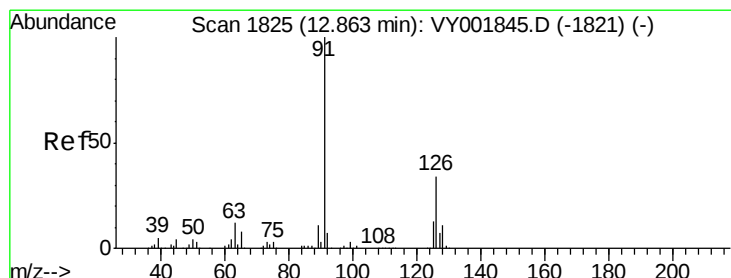
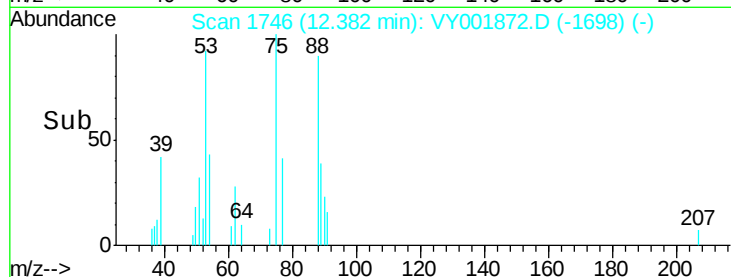
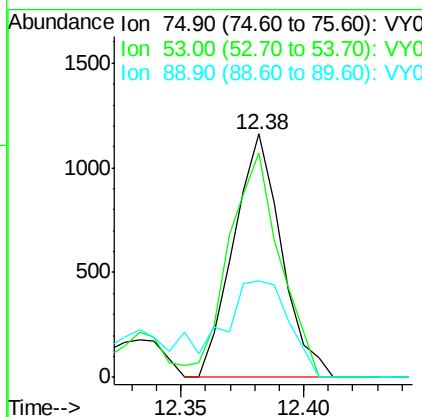
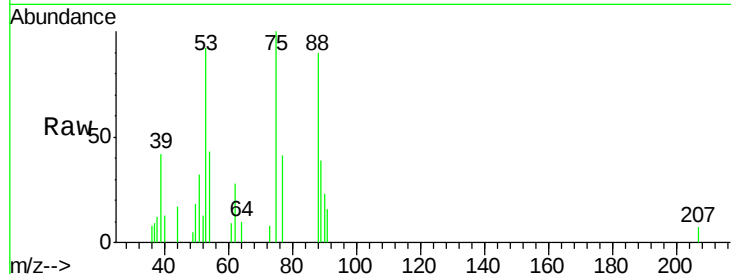
#81
trans-1,4-Dichloro-2-butene
Concen: 2.176 ug/l m
RT: 12.38 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	65.4	98.0#
89	3.3	36.0	54.0#

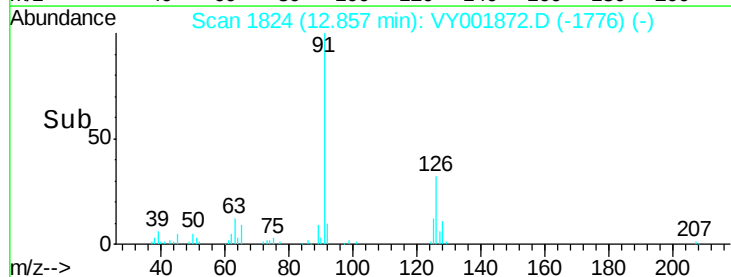
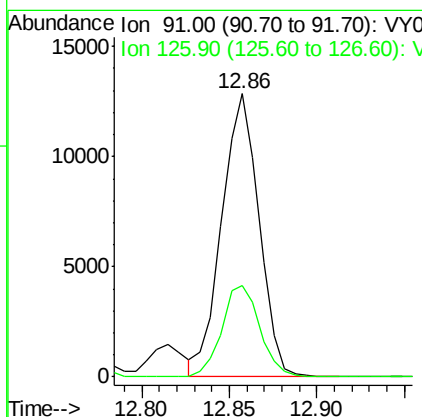
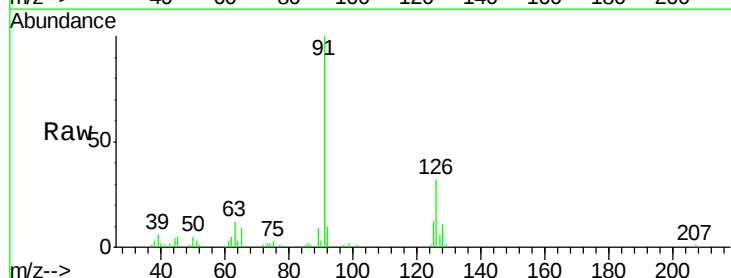
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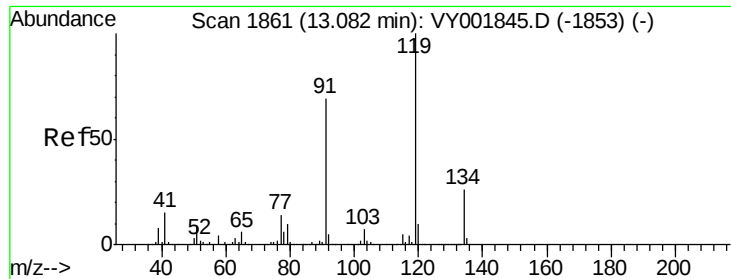
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#82
4-Chlorotoluene
Concen: 2.842 ug/l
RT: 12.86 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.2





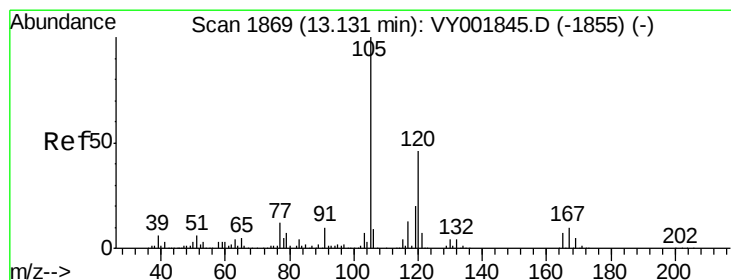
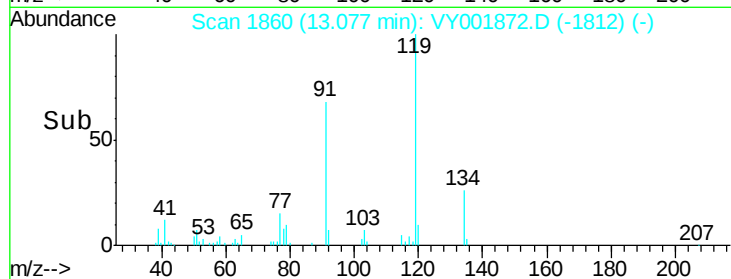
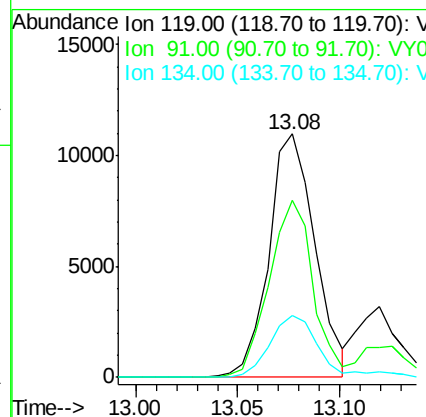
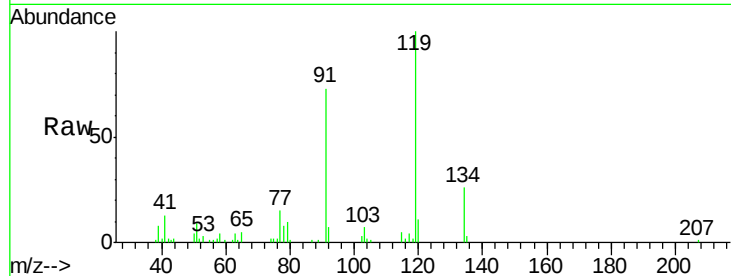
#83
 tert-Butylbenzene
 Concen: 2.678 ug/l
 RT: 13.08 min Scan# 1860
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.4	34.0	101.8
134	26.1	13.5	40.4

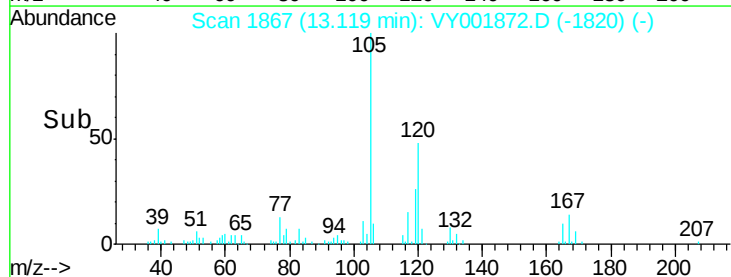
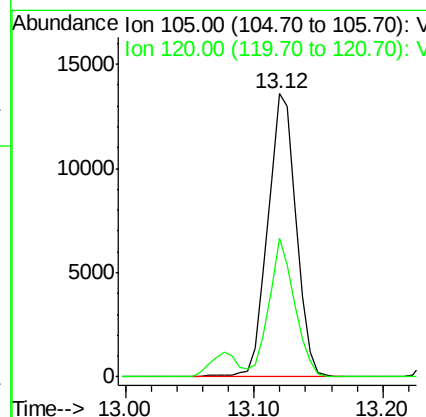
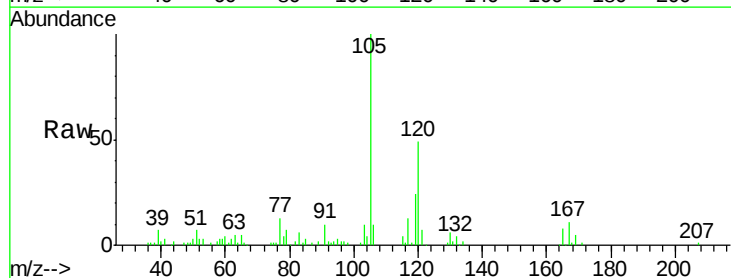
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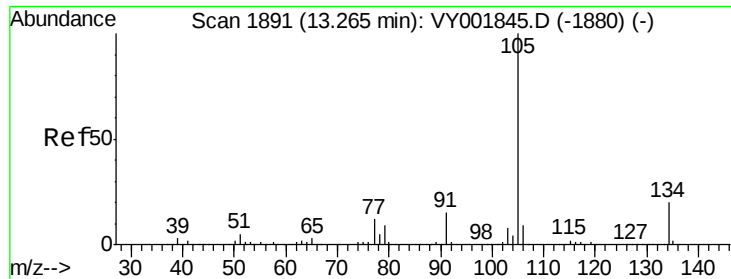
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.685 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.6	67.7





#85

sec-Butylbenzene

Concen: 2.694 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 25611

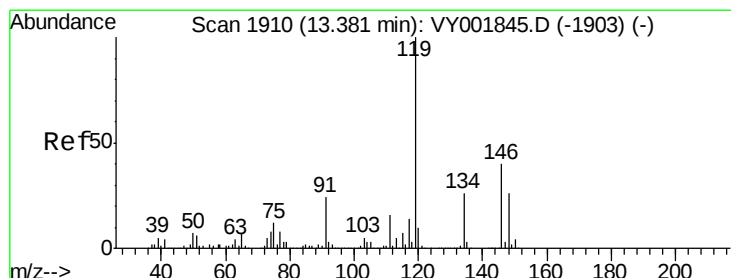
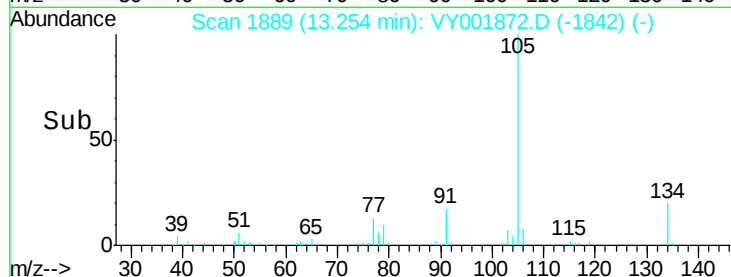
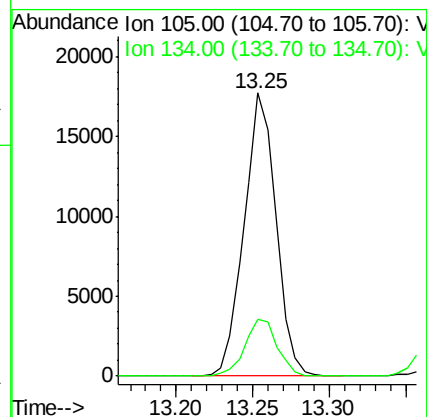
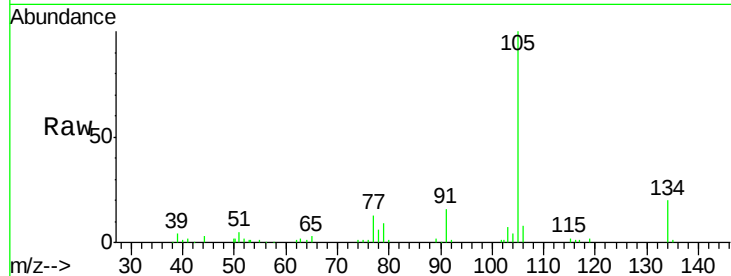
Ion Ratio Lower Upper

105 100

134 20.3 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 2.694 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

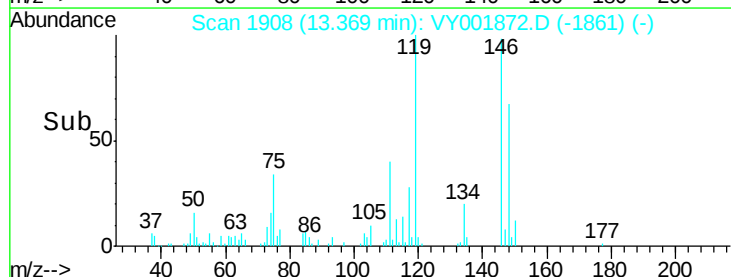
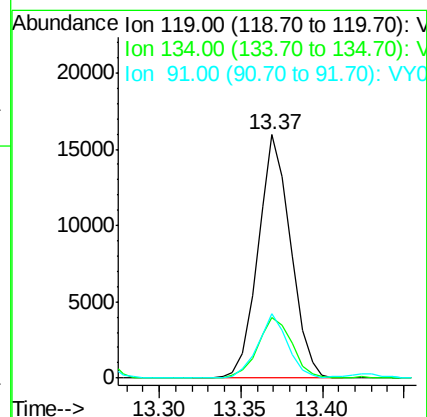
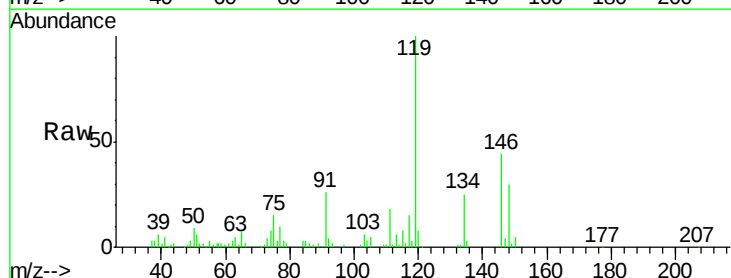
Tgt Ion:119 Resp: 22087

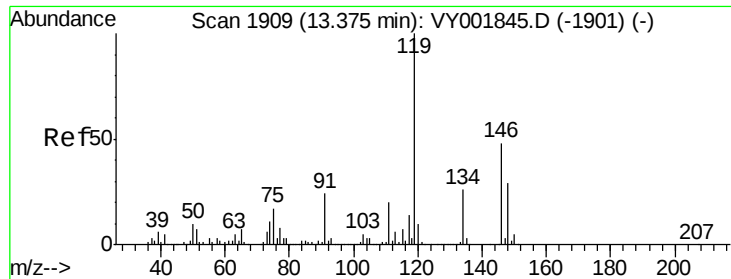
Ion Ratio Lower Upper

119 100

134 26.0 13.1 39.3

91 24.3 11.9 35.7





#87

1,3-Dichlorobenzene

Concen: 2.786 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

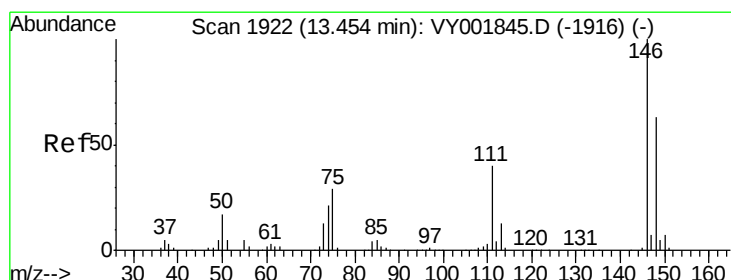
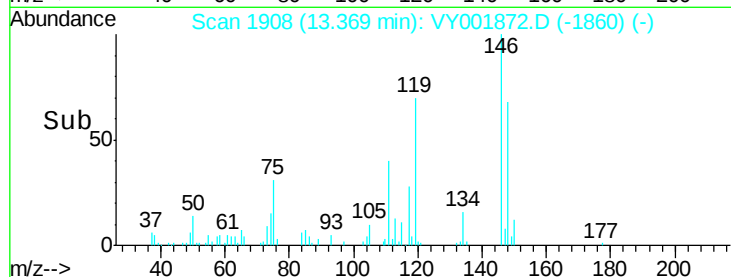
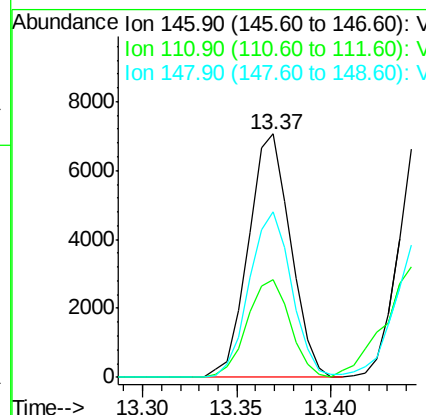
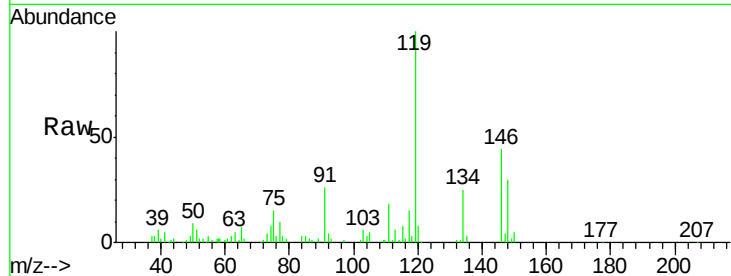
Instrument :
MSVOA_Y

ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.5
148	68.4	31.4	94.0

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#88

1,4-Dichlorobenzene

Concen: 2.850 ug/l

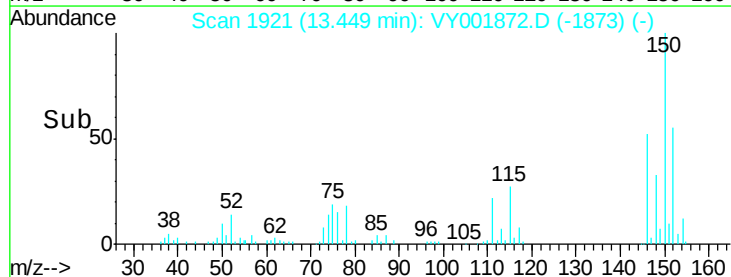
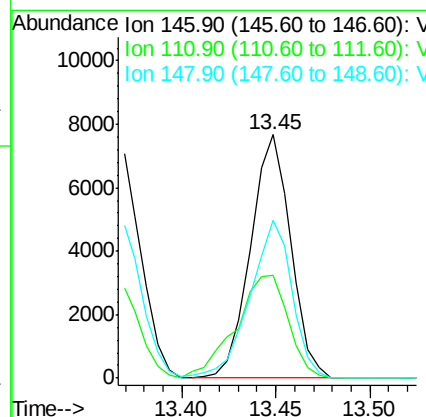
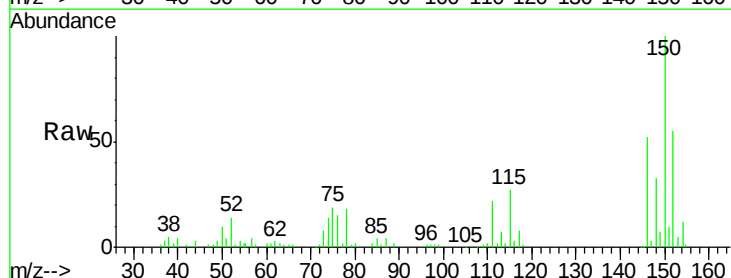
RT: 13.45 min Scan# 1921

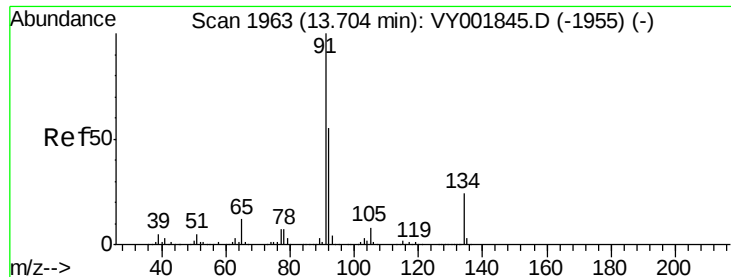
Delta R.T. -0.01 min

Lab File: VY001872.D

Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	55.3	20.0	60.0
148	68.0	31.5	94.5





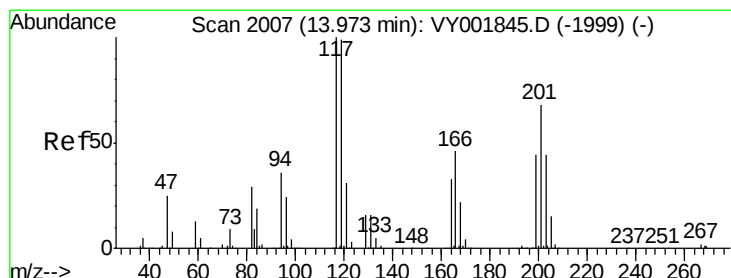
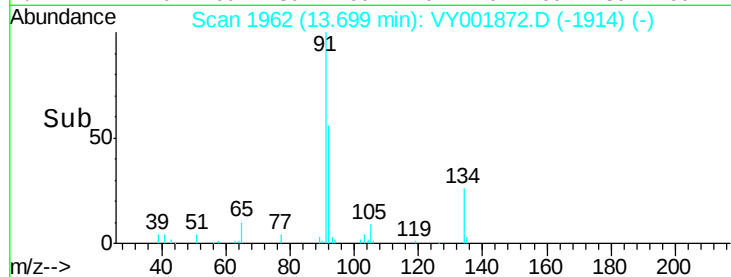
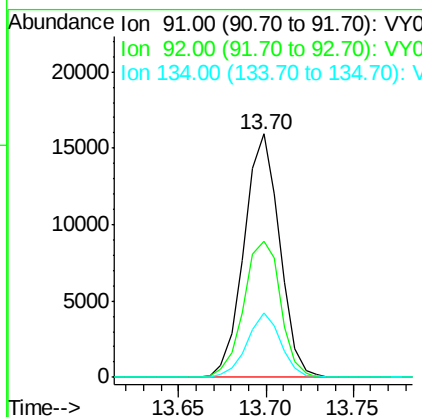
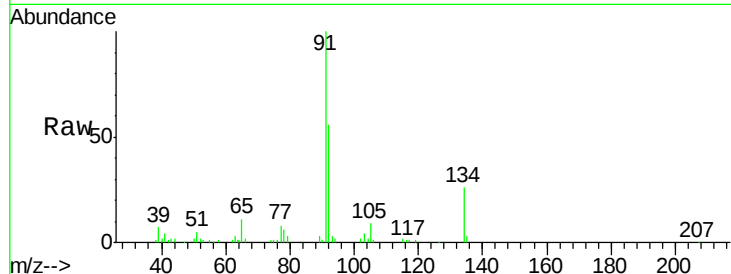
#89
n-Butylbenzene
Concen: 2.655 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.3	27.5	82.4
134	25.2	12.5	37.5

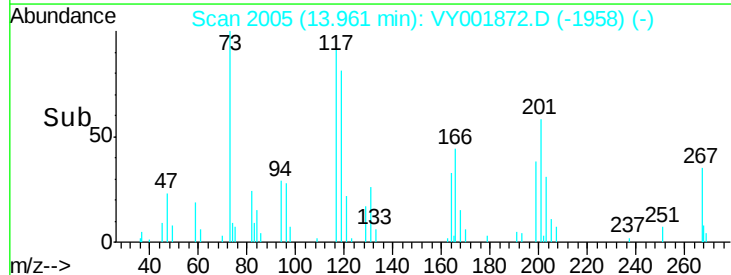
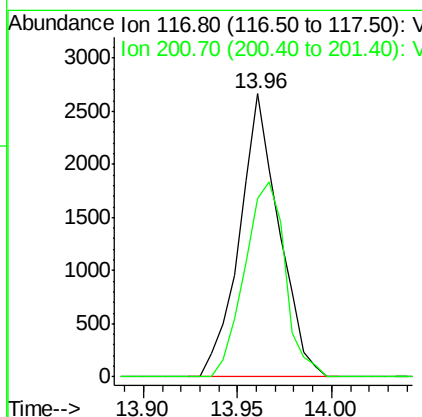
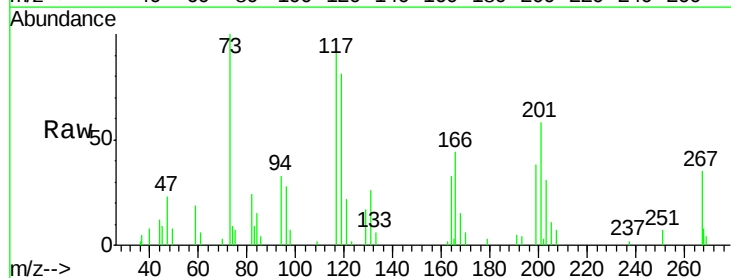
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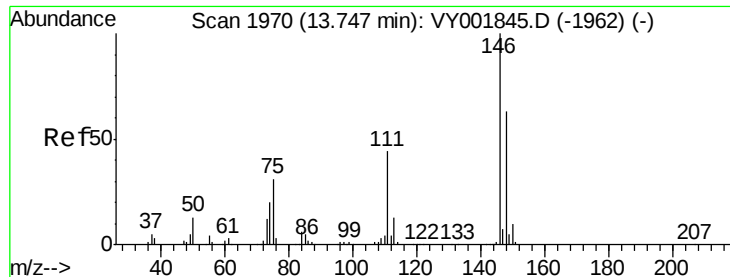
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#90
Hexachloroethane
Concen: 2.508 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.4	32.5	97.5





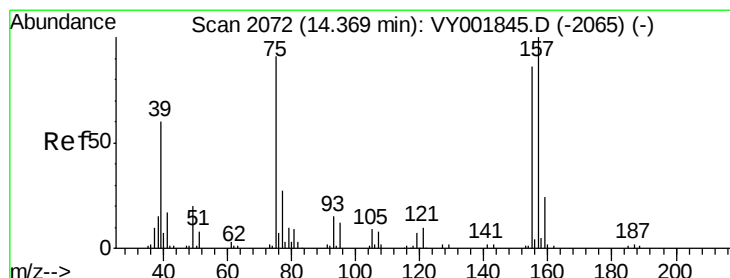
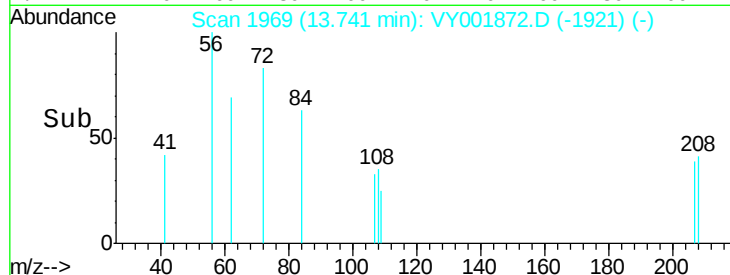
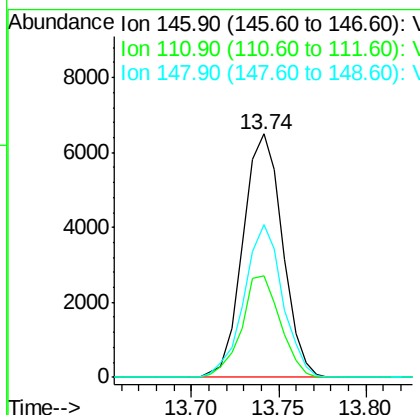
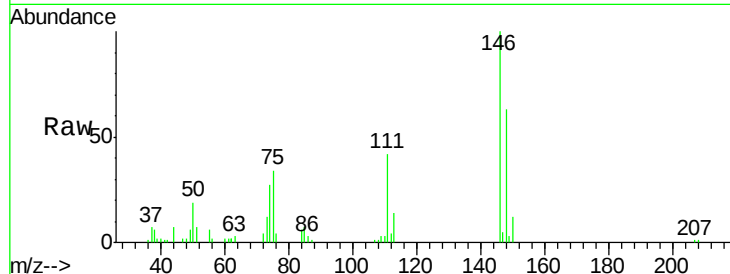
#91
 1,2-Dichlorobenzene
 Concen: 2.874 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.5	64.5
148	60.9	32.0	96.0

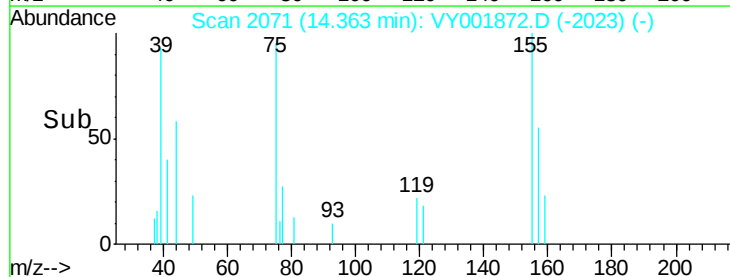
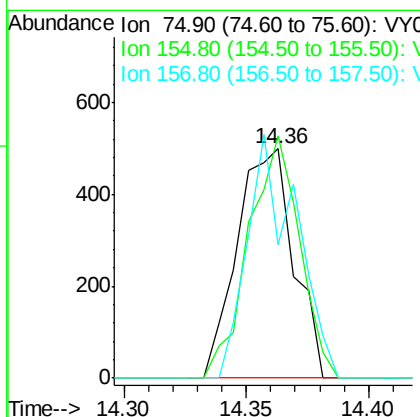
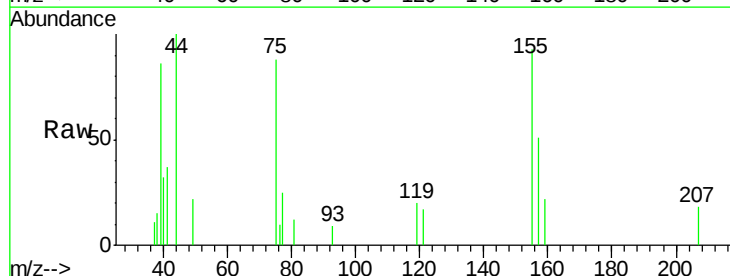
Manual Integrations
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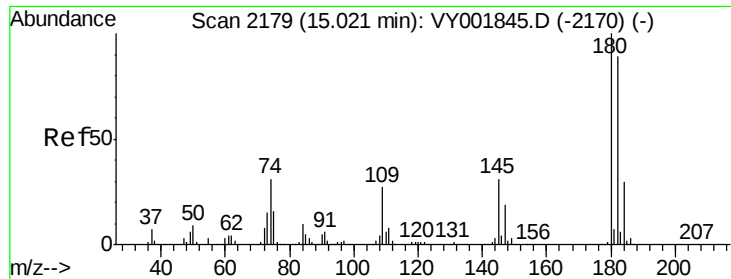
MMDadoda
 3/6/2020 11:16:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.521 ug/l
 RT: 14.36 min Scan# 2071
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.9	42.9	128.7
157	91.3	53.1	159.4





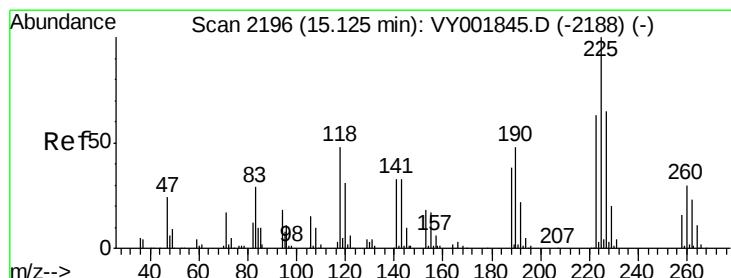
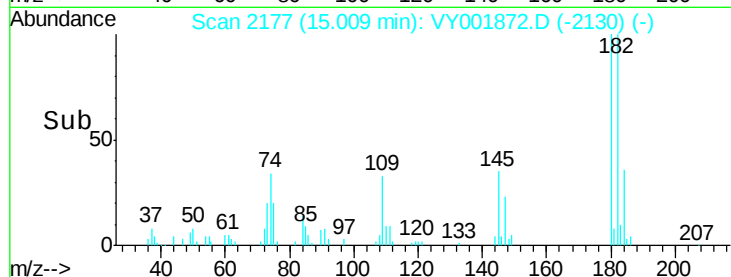
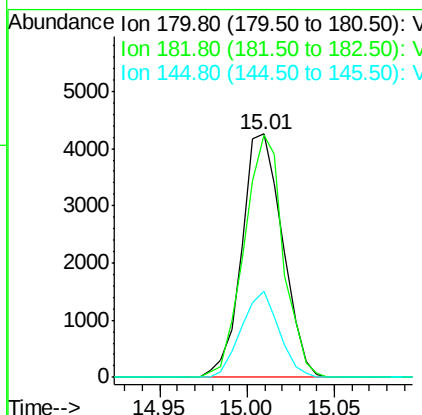
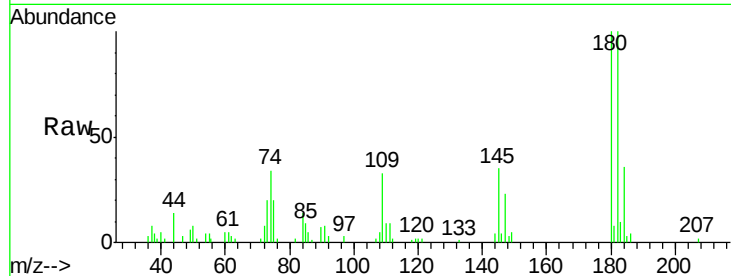
#93
 1,2,4-Trichlorobenzene
 Concen: 2.985 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.1	138.3
145	32.5	15.6	46.8

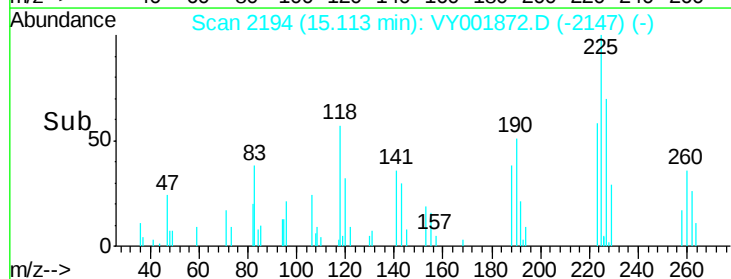
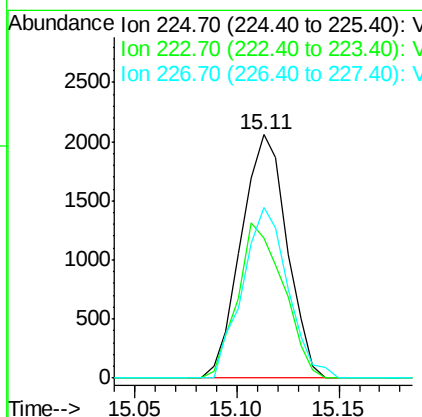
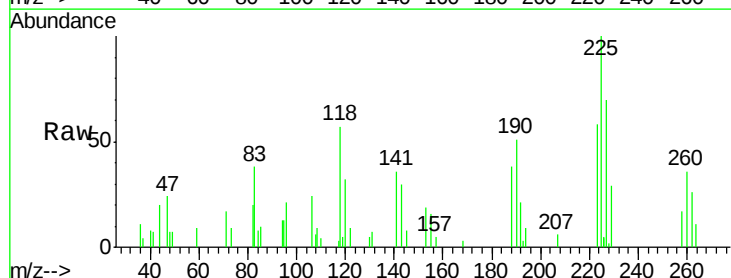
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#94
 Hexachlorobutadiene
 Concen: 2.866 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. -0.01 min
 Lab File: VY001872.D
 Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.5	94.5
227	69.4	31.9	95.5





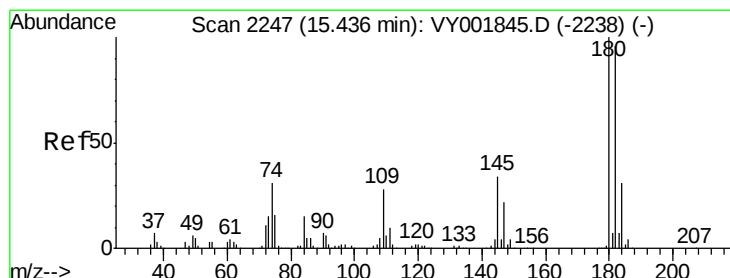
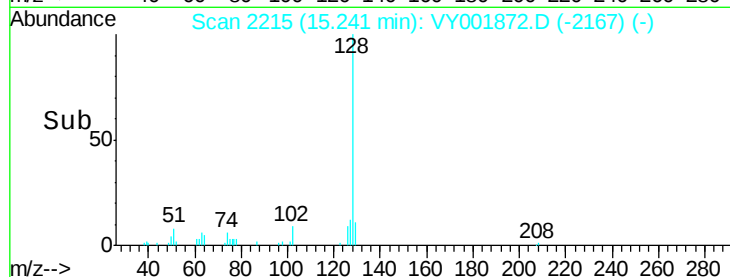
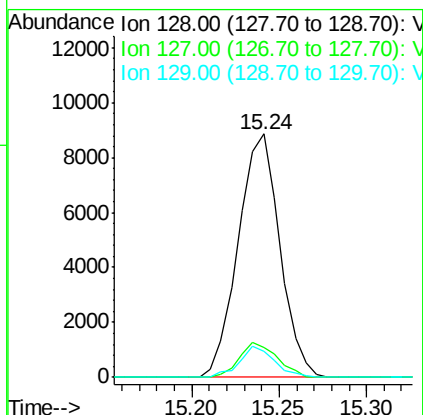
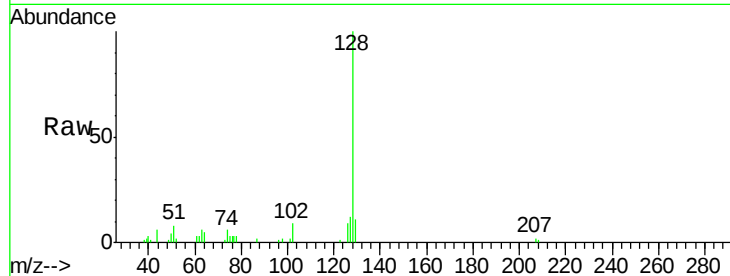
#95
Naphthalene
Concen: 2.674 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT1-2020DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	10.6	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 3.172 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. -0.01 min
Lab File: VY001872.D
Acq: 05 Mar 2020 11:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.6	142.9
145	30.4	16.8	50.3

