

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071020\
 Data File : VY003167.D
 Acq On : 10 Jul 2020 16:43
 Operator : SY/MD
 Sample : L3216-03 4PPB MDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/13/2020 10:47:53 AM

Quant Time: Jul 11 07:00:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 11 06:48:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	474209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	697013	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	638825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	332968	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.14	65	187593	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
35) Dibromofluoromethane	7.72	113	184708	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
50) Toluene-d8	10.18	98	676499	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	
62) 4-Bromofluorobenzene	12.48	95	241879	44.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.91	85	15196	4.471	ug/l	100
3) Chloromethane	2.12	50	20449	4.338	ug/l	99
4) Vinyl Chloride	2.26	62	21196	4.382	ug/l	97
5) Bromomethane	2.66	94	16639	4.631	ug/l	97
6) Chloroethane	2.80	64	13040	4.104	ug/l	98
7) Trichlorofluoromethane	3.13	101	28994	4.197	ug/l	95
8) Diethyl Ether	3.53	74	9436	4.076	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.91	101	17828	4.273	ug/l	99
10) Methyl Iodide	4.10	142	17758	3.918	ug/l	98
11) Tert butyl alcohol	4.96	59	9745	22.516	ug/l	96
12) 1,1-Dichloroethene	3.88	96	17290	4.382	ug/l	95
13) Acrolein	3.74	56	8735	23.253	ug/l	99
14) Allyl chloride	4.48	41	25286	4.318	ug/l	96
15) Acrylonitrile	5.18	53	22732	20.444	ug/l	98
16) Acetone	3.96	43	20083	22.463	ug/l #	84
17) Carbon Disulfide	4.19	76	50800	4.195	ug/l	96
18) Methyl Acetate	4.49	43	11527	4.643	ug/l	98
19) Methyl tert-butyl Ether	5.24	73	46440	4.200	ug/l	91
20) Methylene Chloride	4.72	84	42828	8.058	ug/l	90
21) trans-1,2-Dichloroethene	5.23	96	18684	4.186	ug/l	88
22) Diisopropyl ether	6.13	45	53724	4.134	ug/l #	94
23) Vinyl Acetate	6.07	43	165163	19.069	ug/l	100
24) 1,1-Dichloroethane	6.02	63	31355	4.165	ug/l	96
25) 2-Butanone	6.99	43	29441	20.056	ug/l	98
26) 2,2-Dichloropropane	6.99	77	28354	4.182	ug/l	96
27) cis-1,2-Dichloroethene	6.99	96	21071	4.288	ug/l	95
28) Bromochloromethane	7.34	49	12711	3.900	ug/l #	99
29) Tetrahydrofuran	7.36	42	20600	20.890	ug/l	98
30) Chloroform	7.52	83	33397	4.307	ug/l	93
31) Cyclohexane	7.79	56	37466	5.146	ug/l #	73
32) 1,1,1-Trichloroethane	7.71	97	29346	4.204	ug/l	100
36) 1,1-Dichloropropene	7.93	75	25859	4.093	ug/l	99
37) Ethyl Acetate	7.08	43	13915	4.090	ug/l	95
38) Carbon Tetrachloride	7.91	117	25160	3.858	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	32013	4.034	ug/l	95
40) Benzene	8.16	78	71146	4.090	ug/l	98
41) Methacrylonitrile	7.33	41	8813m	4.301	ug/l	
42) 1,2-Dichloroethane	8.24	62	22164	4.139	ug/l	96
43) Isopropyl Acetate	8.27	43	25544	3.879	ug/l	96
44) Trichloroethene	8.94	130	21858	4.099	ug/l	87
45) 1,2-Dichloropropane	9.22	63	18401	4.088	ug/l	92
46) Dibromomethane	9.31	93	10876	4.137	ug/l	99
47) Bromodichloromethane	9.50	83	25114	4.017	ug/l	99
48) Methyl methacrylate	9.30	41	11110	3.774	ug/l	98
49) 1,4-Dioxane	9.30	88	2545	76.280	ug/l #	79
51) 4-Methyl-2-Pentanone	10.07	43	63875	18.662	ug/l	100
52) Toluene	10.24	92	44758	4.026	ug/l	96
53) t-1,3-Dichloropropene	10.47	75	25300	3.906	ug/l	99
54) cis-1,3-Dichloropropene	9.93	75	28816	3.861	ug/l	95
55) 1,1,2-Trichloroethane	10.64	97	14529	3.900	ug/l	95
56) Ethyl methacrylate	10.51	69	18683	3.689	ug/l	98
57) 1,3-Dichloropropane	10.79	76	25552	4.045	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.78	63	49209	19.052	ug/l	98
59) 2-Hexanone	10.83	43	43094	18.036	ug/l	97
60) Dibromochloromethane	10.99	129	18500	3.949	ug/l	95
61) 1,2-Dibromoethane	11.09	107	14883	4.048	ug/l	98
64) Tetrachloroethene	10.72	164	23275	4.086	ug/l	98
65) Chlorobenzene	11.52	112	49831	4.049	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.59	131	18721	3.917	ug/l	98
67) Ethyl Benzene	11.59	91	87695	3.991	ug/l	98
68) m/p-Xylenes	11.70	106	67520	8.099	ug/l	98
69) o-Xylene	12.03	106	30905	3.968	ug/l	98
70) Styrene	12.04	104	50260	3.772	ug/l	98
71) Bromoform	12.20	173	11881	3.787	ug/l #	100
73) Isopropylbenzene	12.33	105	82985	3.911	ug/l	100
74) N-amyl acetate	12.14	43	22335	3.751	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	15950	3.892	ug/l	93
76) 1,2,3-Trichloropropane	12.63	75	14718m	4.994	ug/l	
77) Bromobenzene	12.61	156	22435	4.148	ug/l	98
78) n-propylbenzene	12.67	91	102364	4.093	ug/l	100
79) 2-Chlorotoluene	12.75	91	57929	4.151	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	70329	3.977	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	5569	3.677	ug/l	97
82) 4-Chlorotoluene	12.85	91	60154	4.130	ug/l	99
83) tert-Butylbenzene	13.07	119	64298	4.120	ug/l	99
84) 1,2,4-Trimethylbenzene	13.12	105	72228	4.059	ug/l	98
85) sec-Butylbenzene	13.25	105	88360	4.120	ug/l	100
86) p-Isopropyltoluene	13.37	119	80378	4.014	ug/l	98
87) 1,3-Dichlorobenzene	13.36	146	42066	4.113	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	43073	4.253	ug/l	92
89) n-Butylbenzene	13.69	91	77859	4.133	ug/l	96
90) Hexachloroethane	13.96	117	14316	3.926	ug/l	99
91) 1,2-Dichlorobenzene	13.74	146	37463	4.174	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.36	75	2726	4.103	ug/l	98

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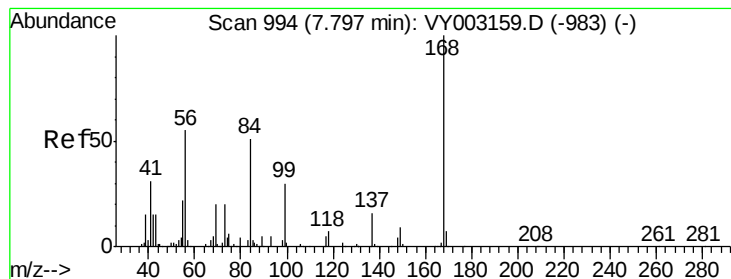
Manual Integrations
APPROVED

MMDadoda
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	27875	4.365	ug/l	98
94) Hexachlorobutadiene	15.11	225	19284	4.407	ug/l	99
95) Naphthalene	15.23	128	44042	4.173	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	22595	4.476	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:168 Resp: 474209

Ion Ratio Lower Upper

168 100

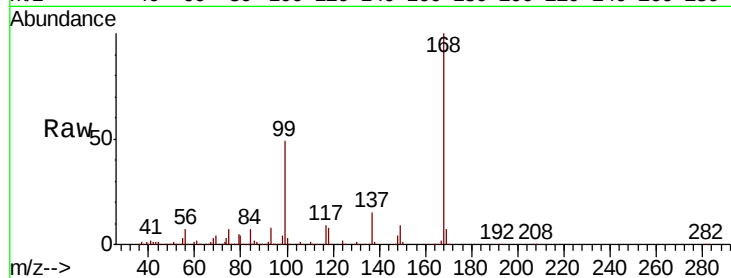
99 48.6 37.3 55.9

Manual Integrations

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7/13/2020 10:47:53 AM



Abundance Ion 167.90 (167.60 to 168.60): VY003167.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003167.D (-945) (-)

7.80

250000

200000

150000

100000

50000

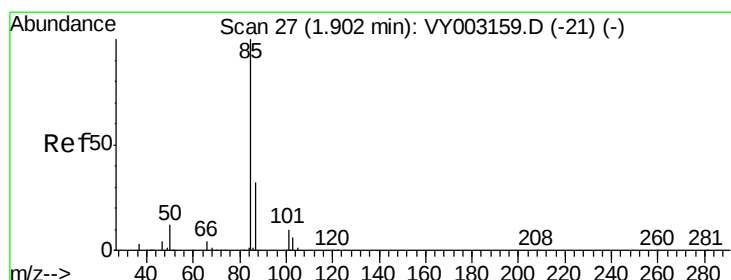
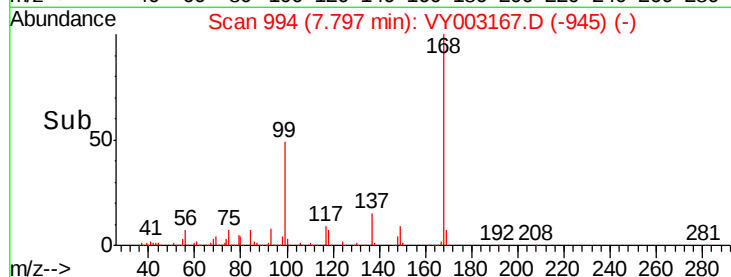
0

7.70

7.80

7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.471 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY003167.D

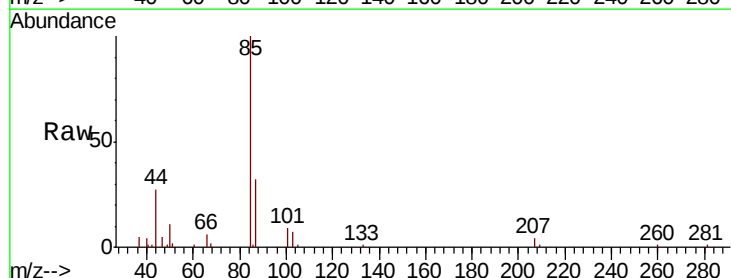
Acq: 10 Jul 2020 16:43

Tgt Ion: 85 Resp: 15196

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VY003167.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY003167.D (-1) (-)

1.91

10000

8000

6000

4000

2000

0

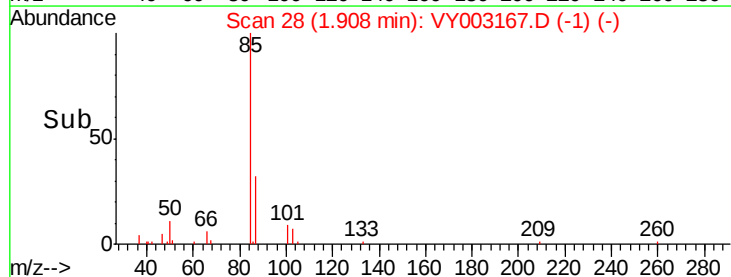
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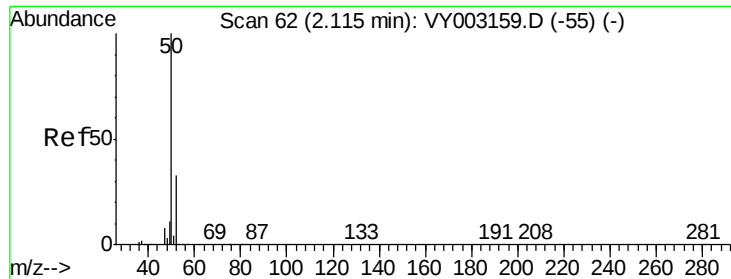
1.90

1.95

2.00

Time-->





#3

Chloromethane

Concen: 4.338 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 50 Resp: 20449

Ion Ratio Lower Upper

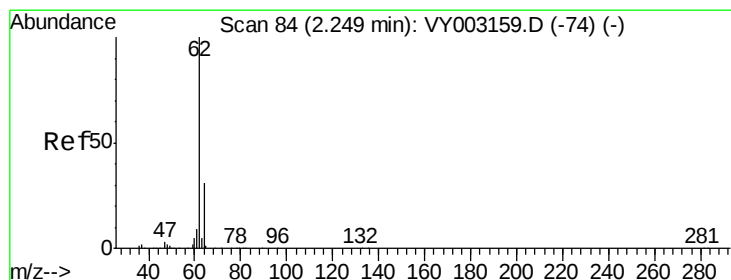
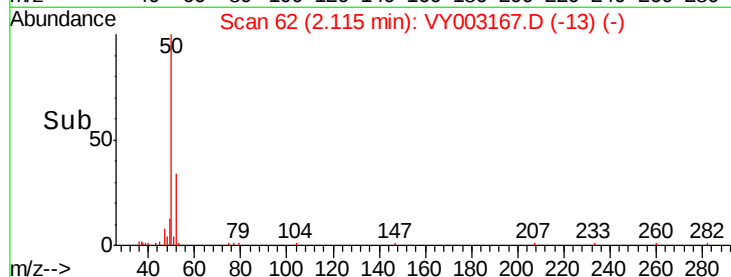
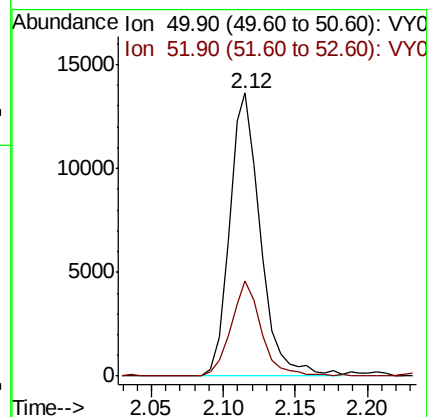
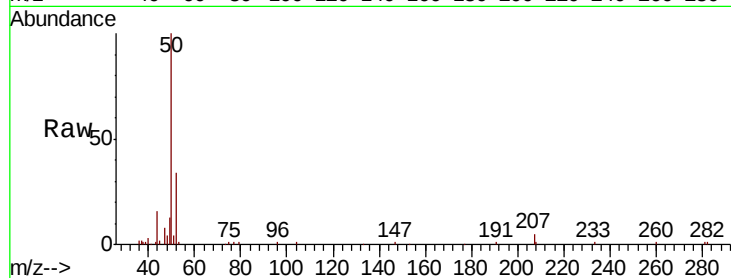
50 100

52 33.7 26.6 39.8

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#4

Vinyl Chloride

Concen: 4.382 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY003167.D

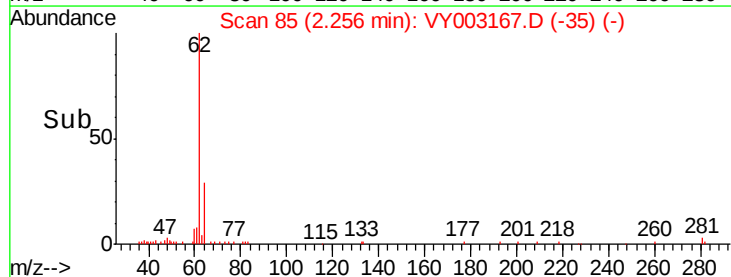
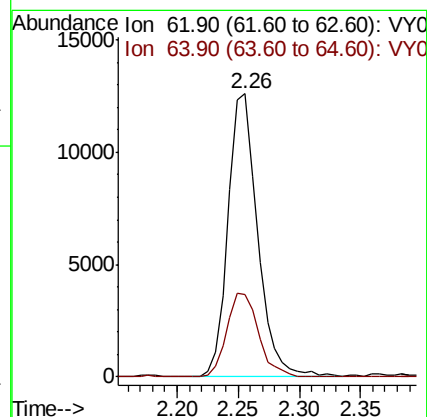
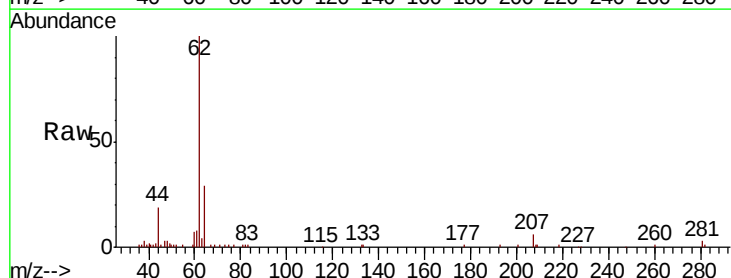
Acq: 10 Jul 2020 16:43

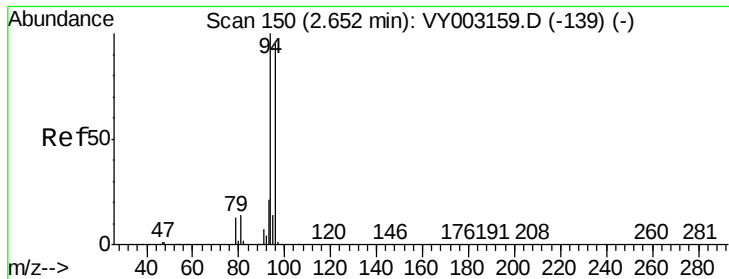
Tgt Ion: 62 Resp: 21196

Ion Ratio Lower Upper

62 100

64 29.3 24.6 37.0





#5

Bromomethane

Concen: 4.631 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 94 Resp: 16639

Ion Ratio Lower Upper

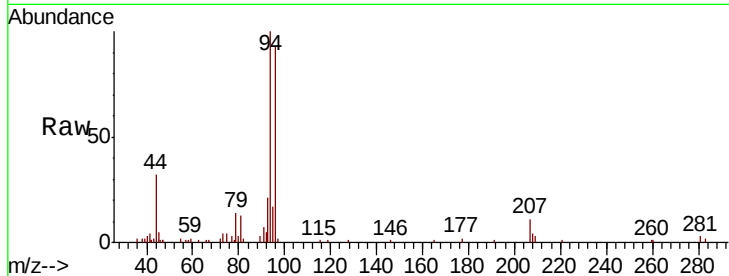
94 100

96 91.7 76.0 114.0

Manual Integrations
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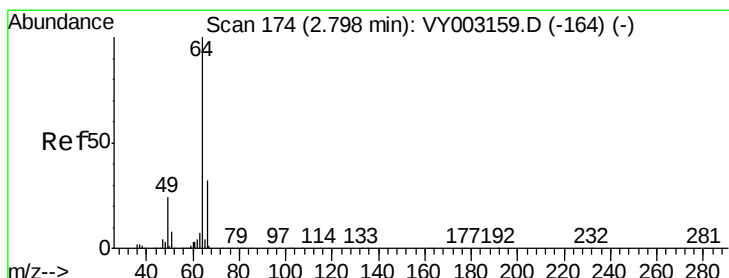
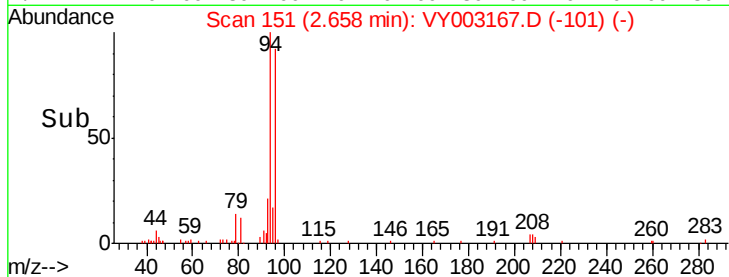
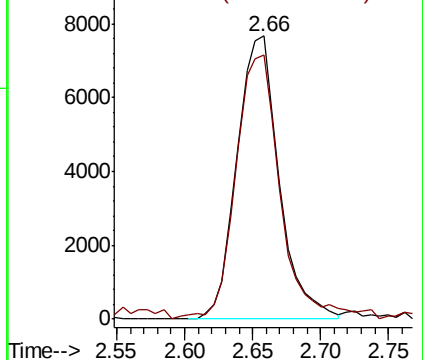
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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 4.104 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.00 min

Lab File: VY003167.D

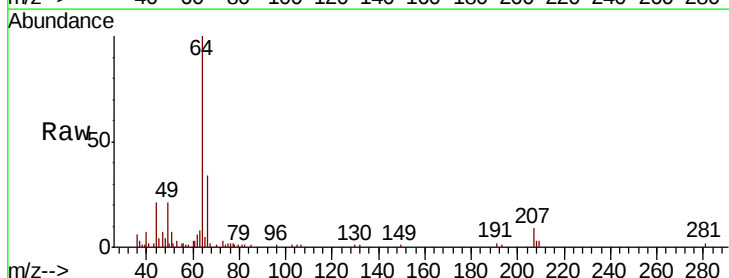
Acq: 10 Jul 2020 16:43

Tgt Ion: 64 Resp: 13040

Ion Ratio Lower Upper

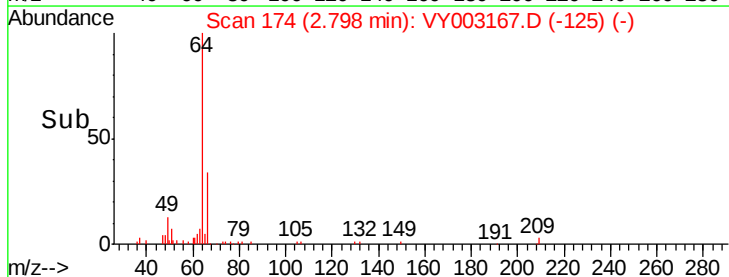
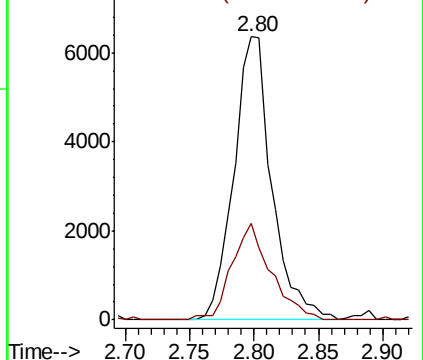
64 100

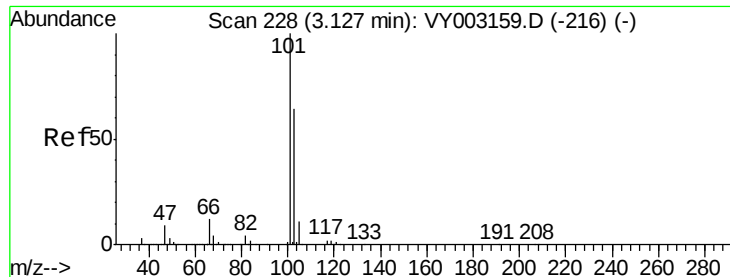
66 33.9 26.0 39.0



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0





#7

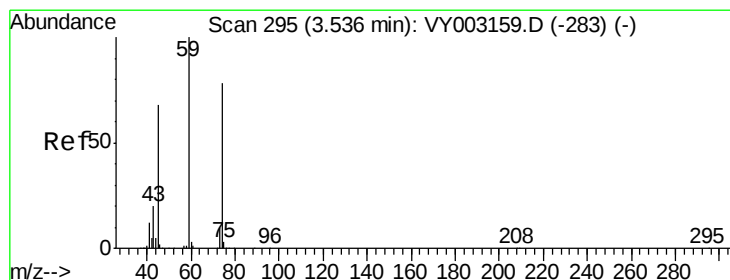
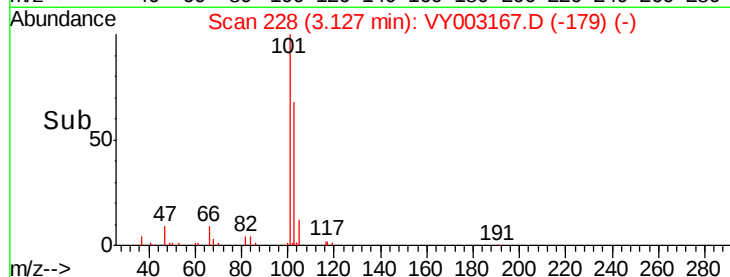
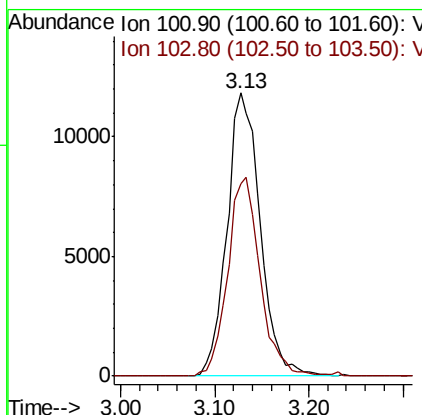
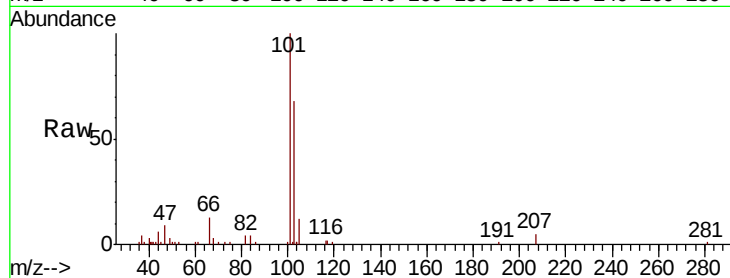
Trichlorofluoromethane
Concen: 4.197 ug/l
RT: 3.13 min Scan# 228
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	67.9	51.3	76.9

Manual Integrations
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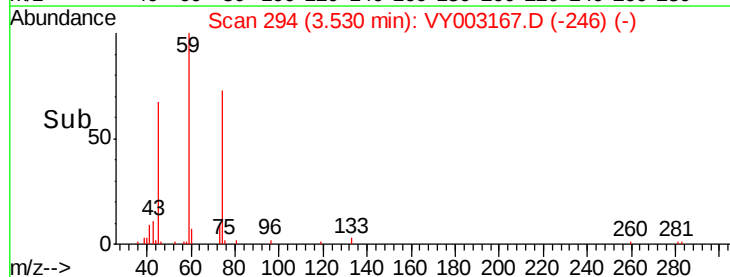
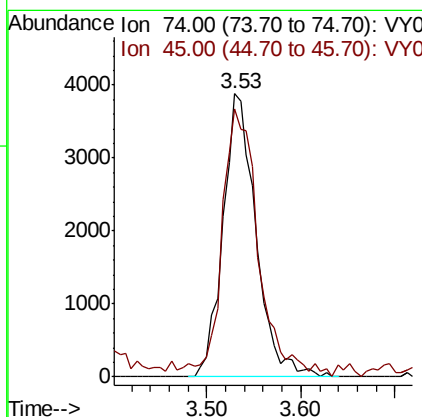
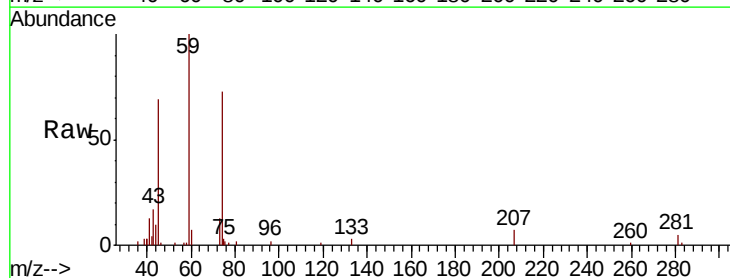
MMDadoda
7/13/2020 10:47:53 AM

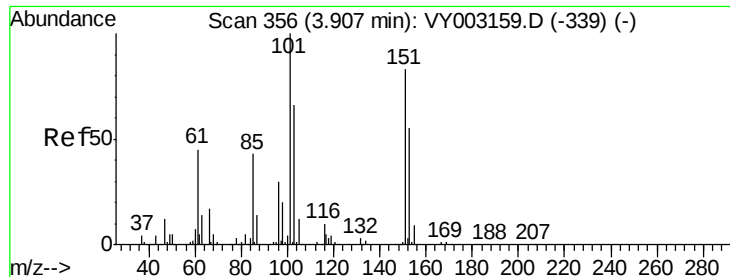


#8

Diethyl Ether
Concen: 4.076 ug/l
RT: 3.53 min Scan# 294
Delta R.T. -0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.9	45.3	135.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.273 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

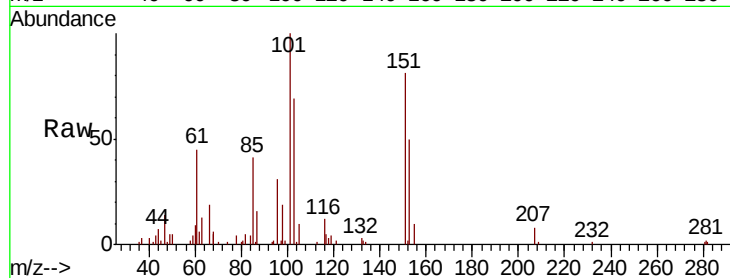
ClientSampleId :

MDL-SOIL-03-QT3-2020

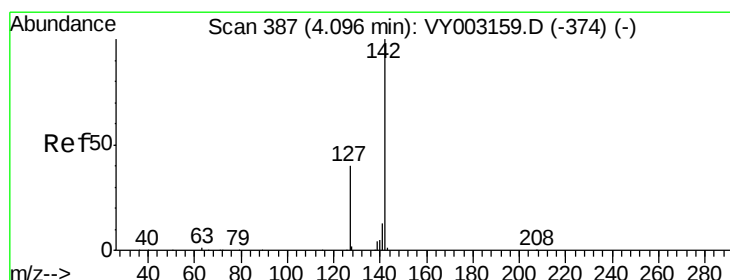
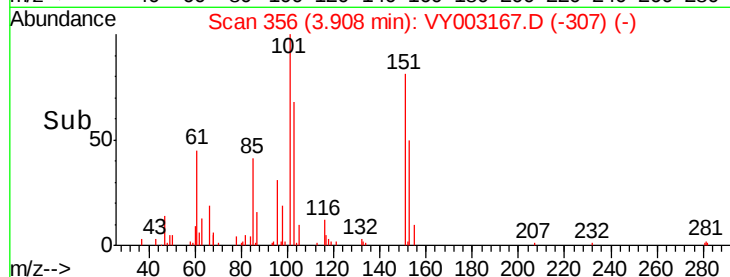
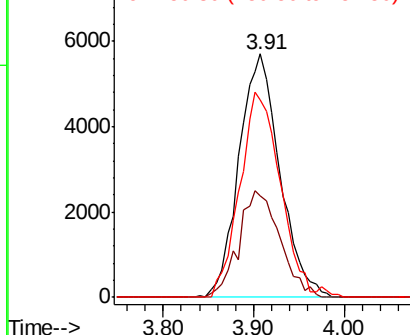
Tot Ion:	101	Resp:	17828
Ion Ratio	Lower	Upper	
101	100		
85	44.2	34.9	52.3
151	83.4	67.0	100.6

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VY0
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.918 ug/l

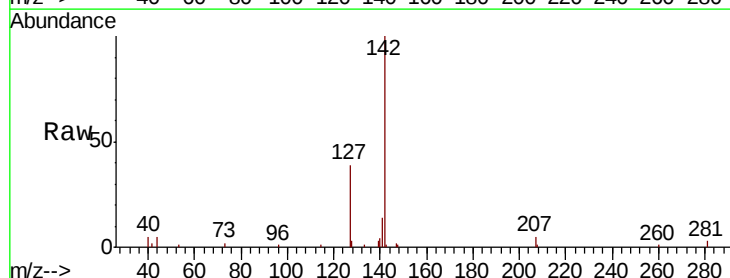
RT: 4.10 min Scan# 388

Delta R.T. 0.01 min

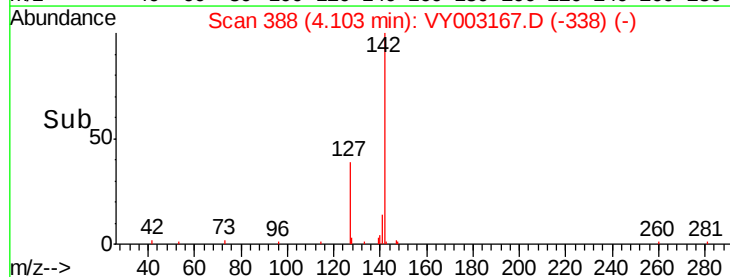
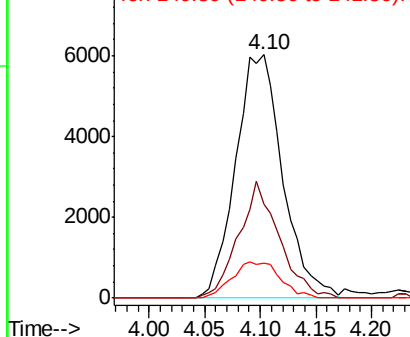
Lab File: VY003167.D

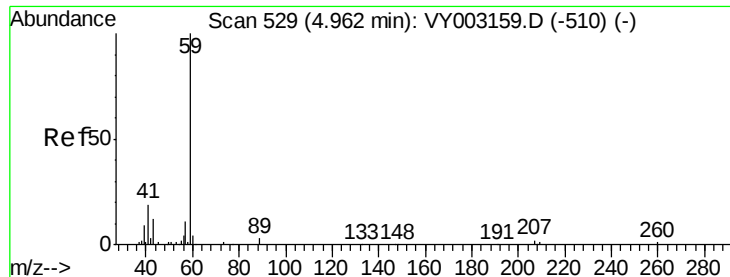
Acq: 10 Jul 2020 16:43

Tgt Ion:	142	Resp:	17758
Ion Ratio	Lower	Upper	
142	100		
127	41.2	33.5	50.3
141	15.2	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





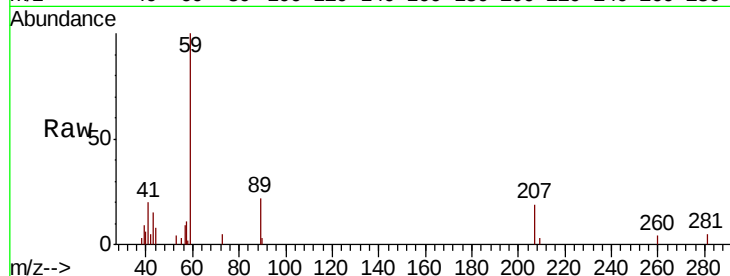
#11
Tert butyl alcohol
Concen: 22.516 ug/l
RT: 4.96 min Scan# 528
Delta R.T. -0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

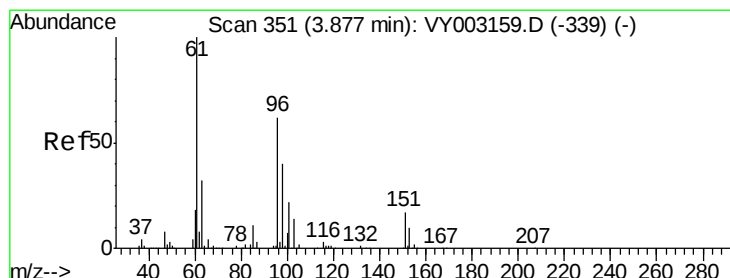
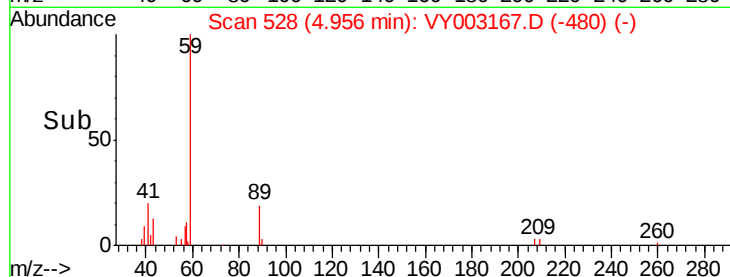
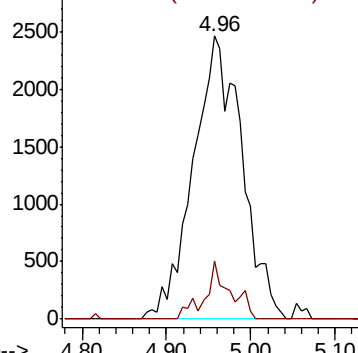
Tot Ion	59	Resp	9745
Ion Ratio	100	Lower	Upper
57	8.9	8.4	12.6

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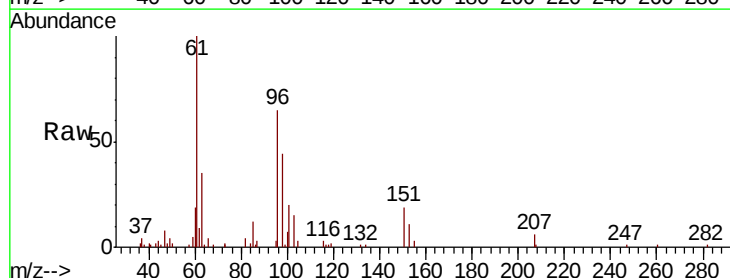


Abundance Ion 59.00 (58.70 to 59.70): VY0
Ion 57.00 (56.70 to 57.70): VY0

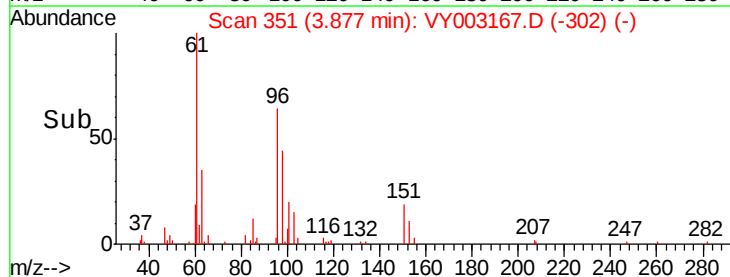
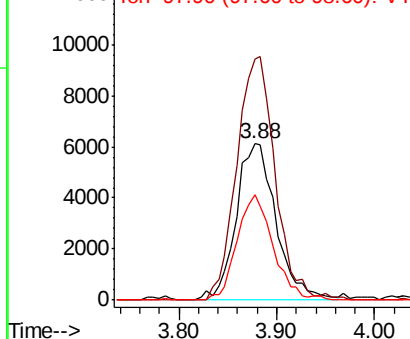


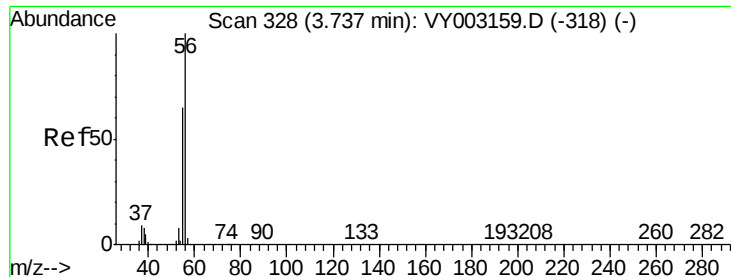
#12
1,1-Dichloroethene
Concen: 4.382 ug/l
RT: 3.88 min Scan# 351
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	96	Resp	17290
Ion Ratio	100	Lower	Upper
61	154.4	128.6	193.0
98	67.9	51.6	77.4



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0





#13

Acrolein

Concen: 23.253 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 56 Resp: 8735

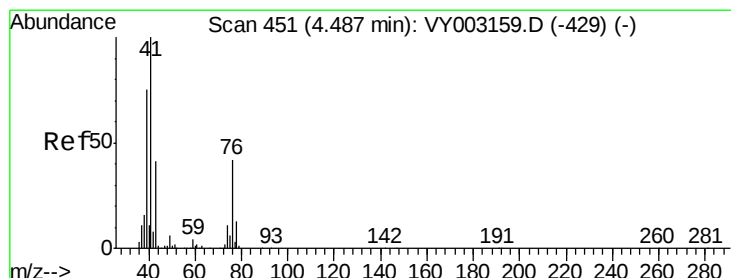
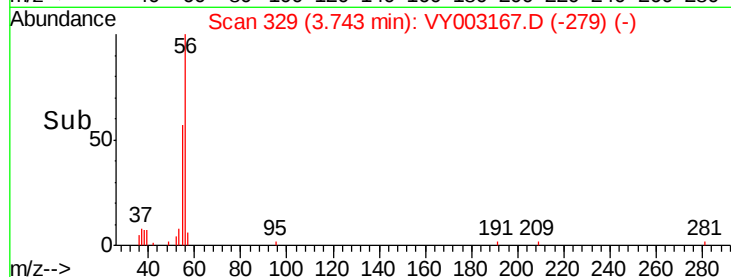
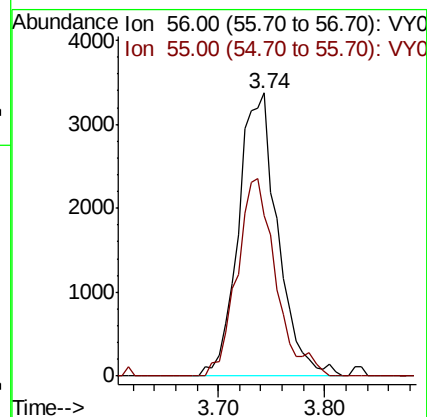
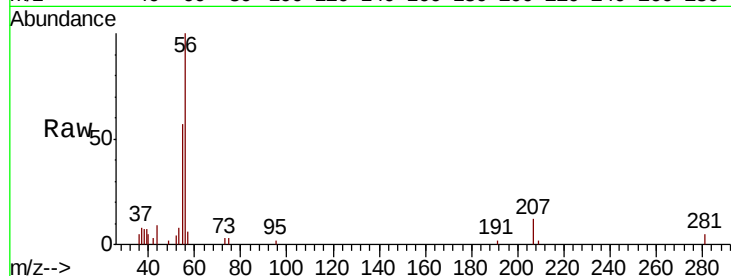
Ion Ratio Lower Upper

56 100

55 68.8 56.0 84.0

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#14

Allyl chloride

Concen: 4.318 ug/l

RT: 4.48 min Scan# 450

Delta R.T. -0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

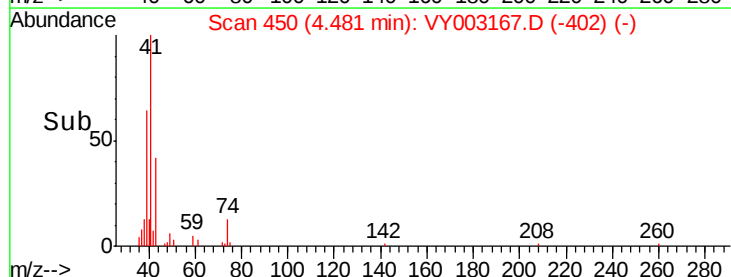
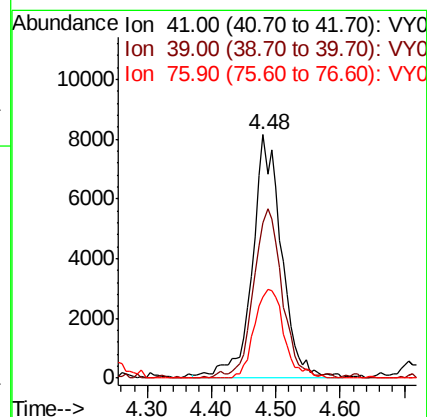
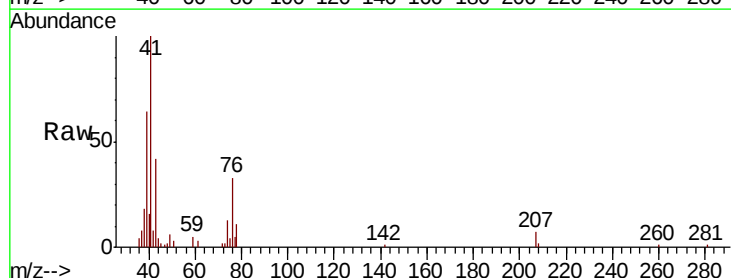
Tgt Ion: 41 Resp: 25286

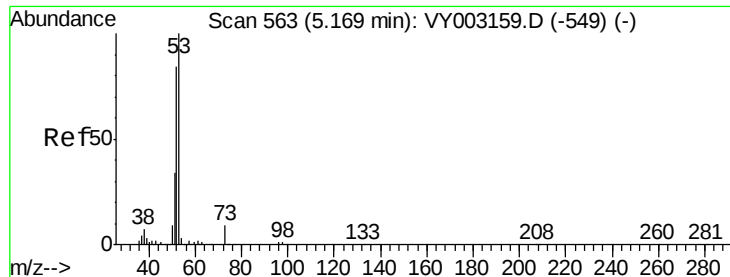
Ion Ratio Lower Upper

41 100

39 67.3 56.6 85.0

76 37.1 31.6 47.4





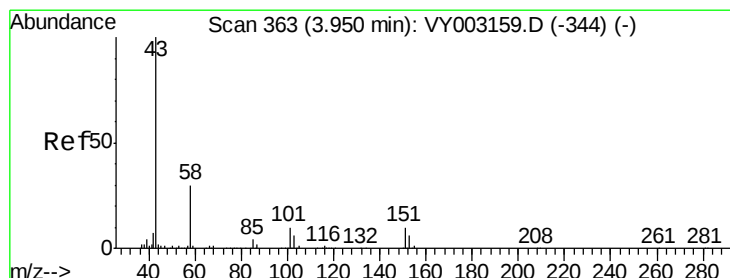
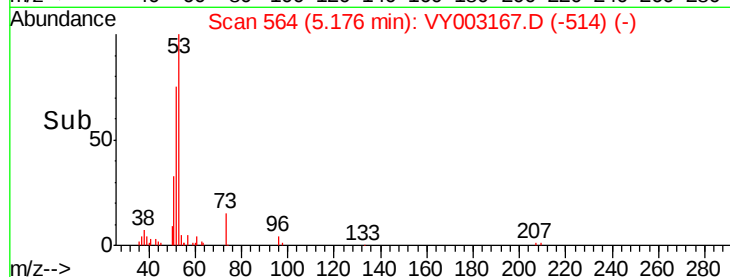
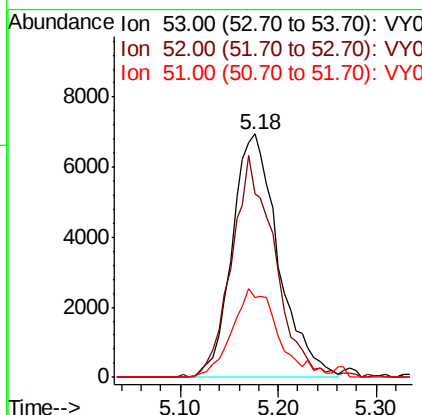
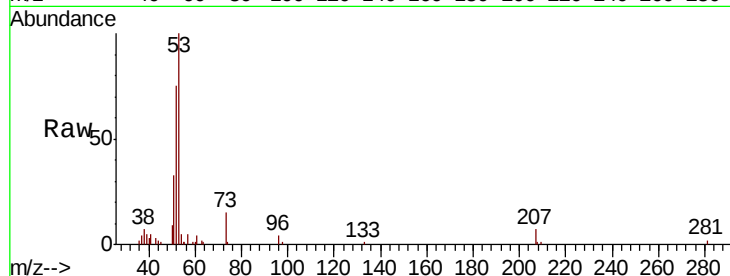
#15
 Acrylonitrile
 Concen: 20.444 ug/l
 RT: 5.18 min Scan# 564
 Delta R.T. 0.01 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.9	65.8	98.6
51	36.4	29.0	43.4

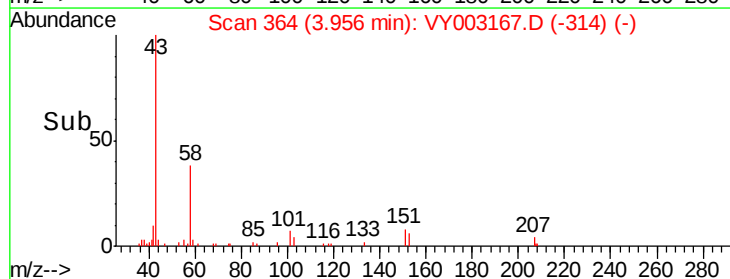
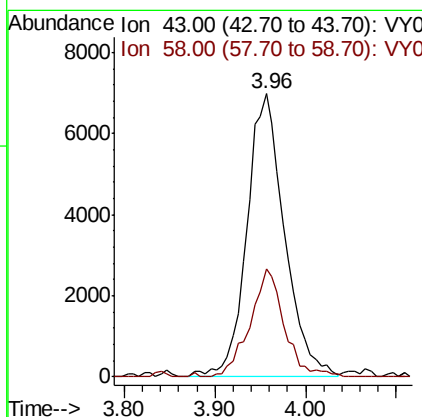
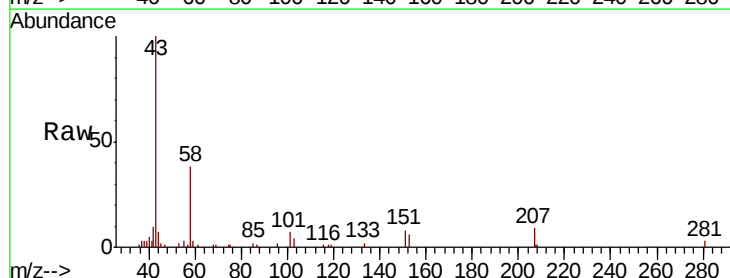
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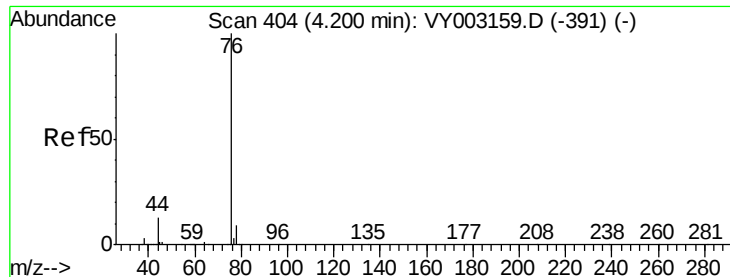
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#16
 Acetone
 Concen: 22.463 ug/l
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.1	23.8	35.6#





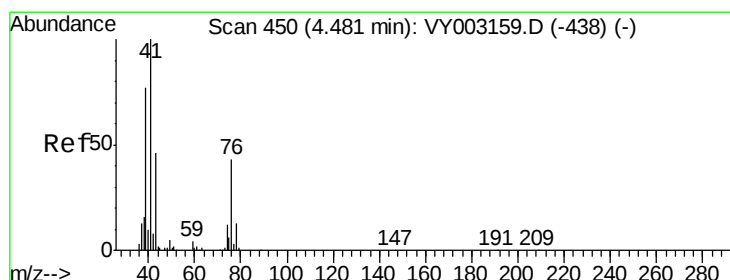
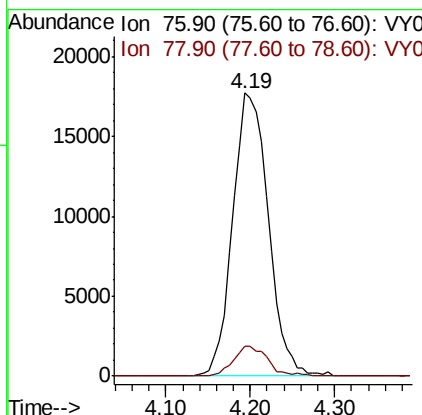
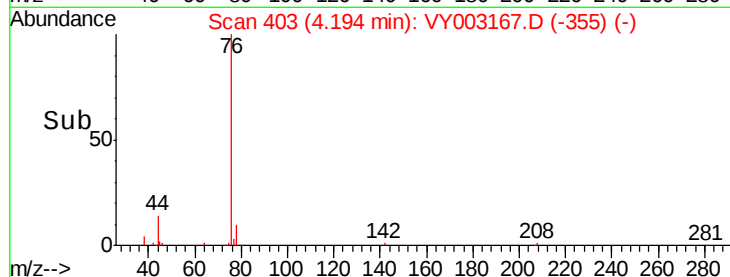
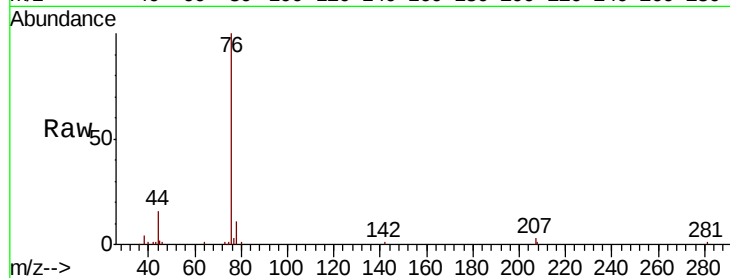
#17
Carbon Disulfide
Concen: 4.195 ug/l
RT: 4.19 min Scan# 403
Delta R.T. -0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.6	7.3	10.9

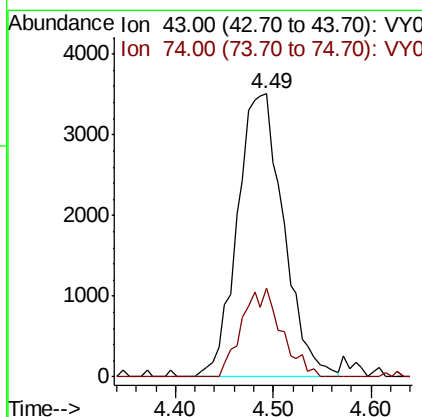
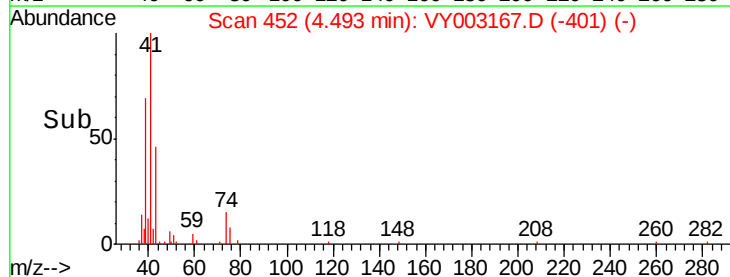
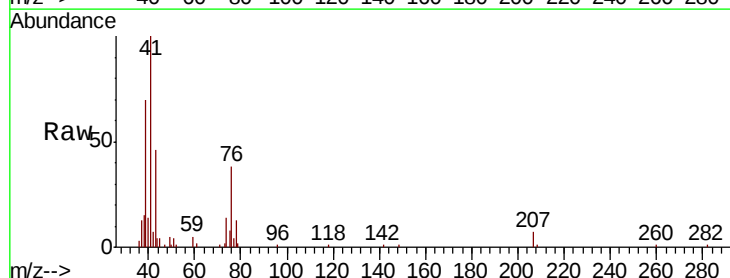
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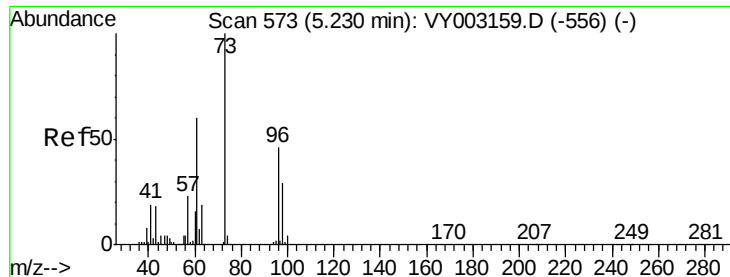
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#18
Methyl Acetate
Concen: 4.643 ug/l
RT: 4.49 min Scan# 452
Delta R.T. 0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.8	20.8	31.2





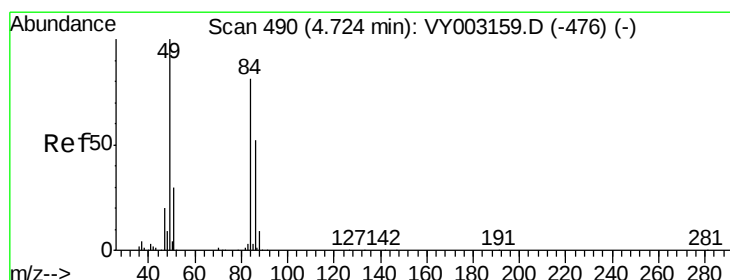
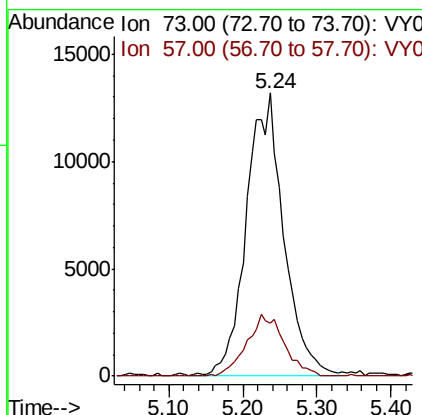
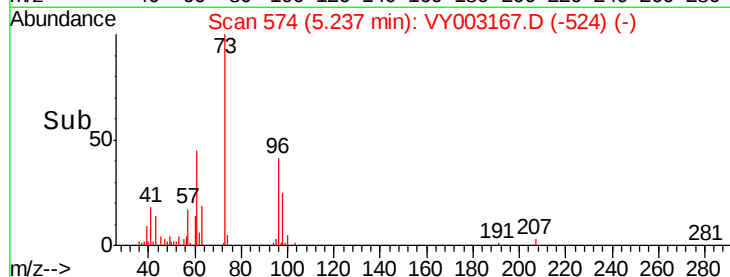
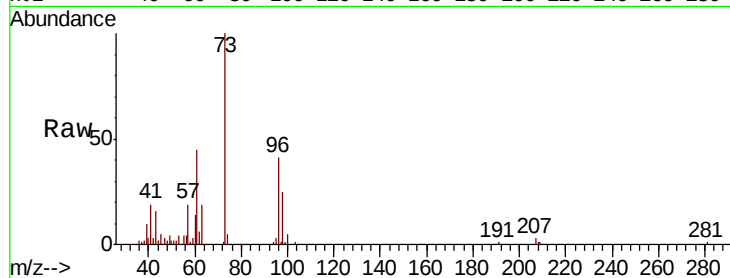
#19
Methyl tert-butyl Ether
Concen: 4.200 ug/l
RT: 5.24 min Scan# 574
Delta R.T. 0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.5	18.1	27.1

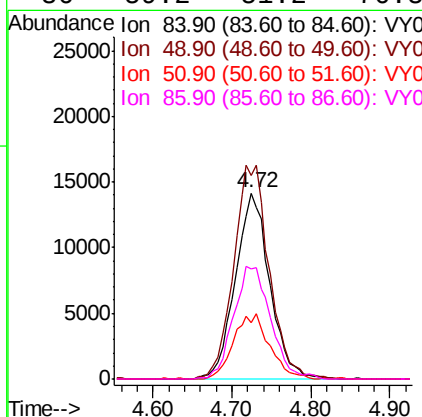
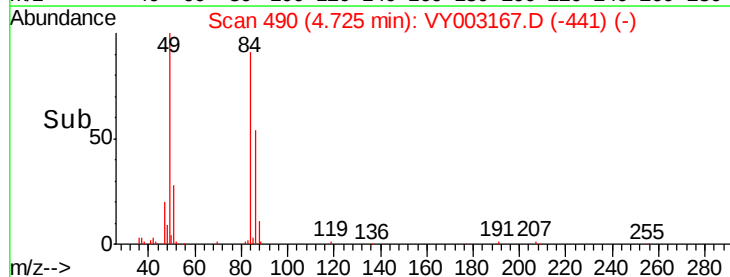
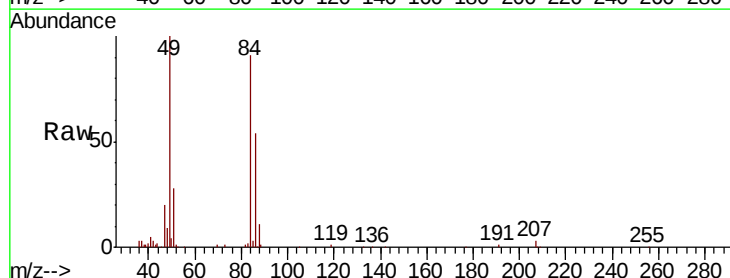
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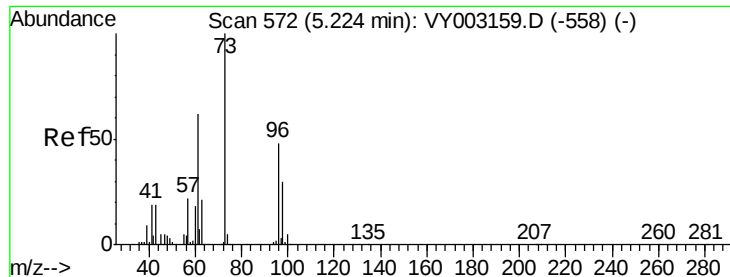
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#20
Methylene Chloride
Concen: 8.058 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	109.5	98.2	147.4
51	30.2	29.8	44.6
86	59.2	51.2	76.8





#21

trans-1,2-Dichloroethene

Concen: 4.186 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

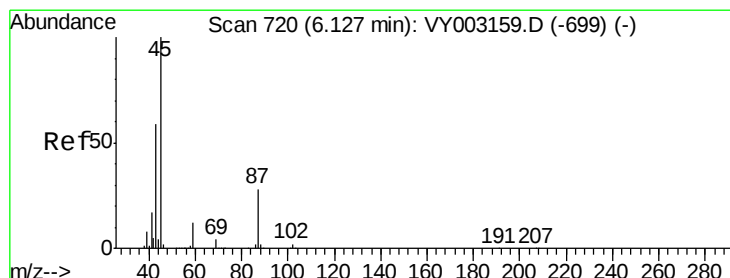
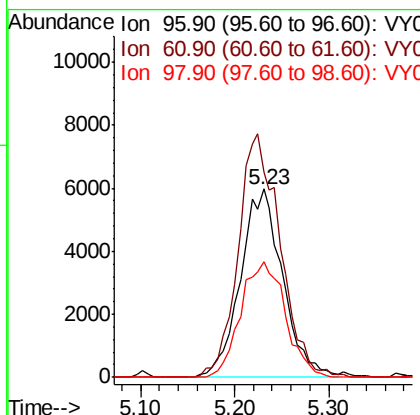
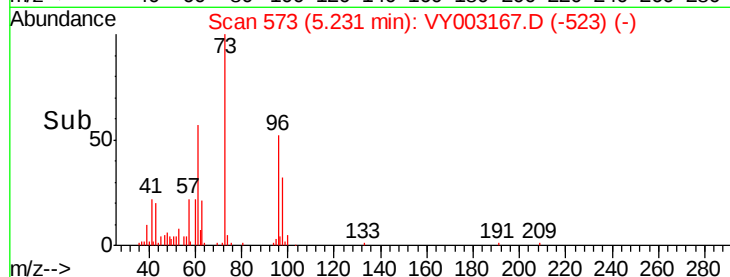
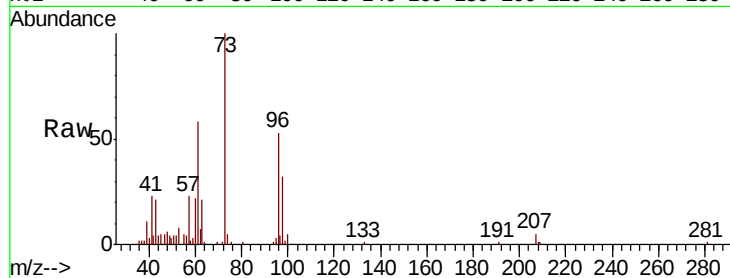
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	96	Resp:	18684
Ion	Ratio	Lower	Upper
96	100		
61	108.9	102.5	153.7
98	61.3	49.8	74.8

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#22

Diisopropyl ether

Concen: 4.134 ug/l

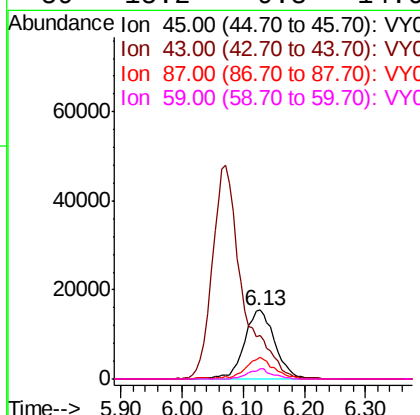
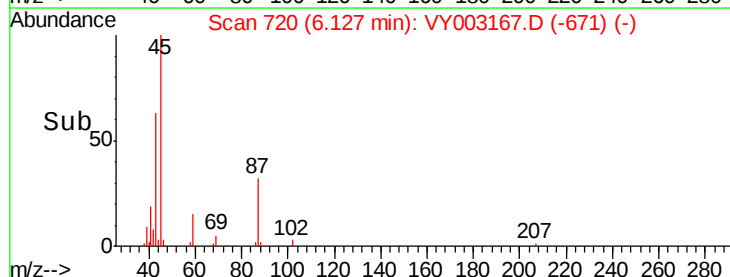
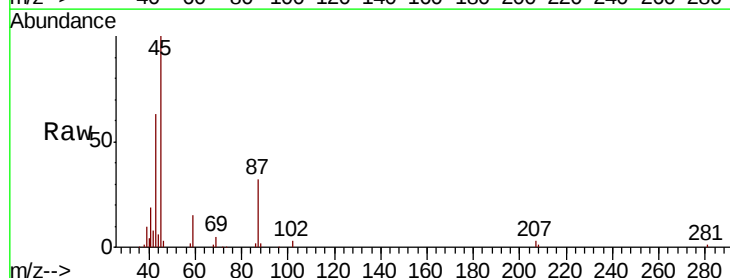
RT: 6.13 min Scan# 720

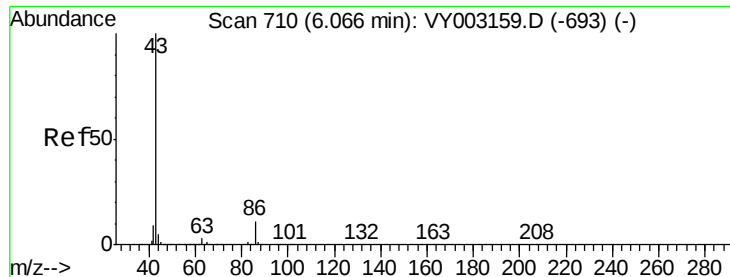
Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion:	45	Resp:	53724
Ion	Ratio	Lower	Upper
45	100		
43	62.7	47.0	70.4
87	31.7	22.6	33.8
59	15.2	9.8	14.6#





#23

Vinyl Acetate

Concen: 19.069 ug/l

RT: 6.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 165163

Ion Ratio Lower Upper

43 100

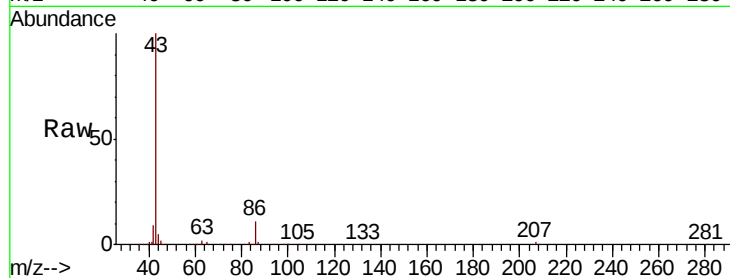
86 10.9 8.8 13.2

Manual Integrations

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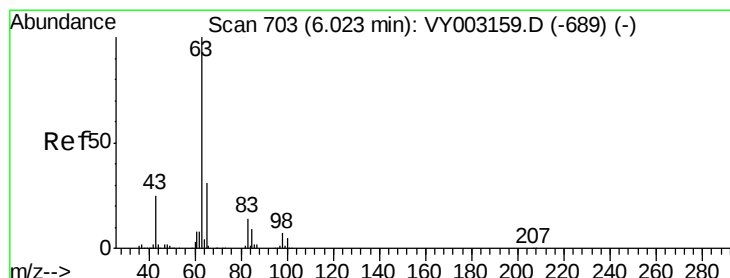
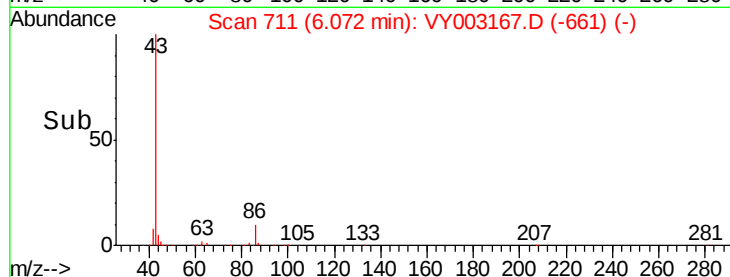
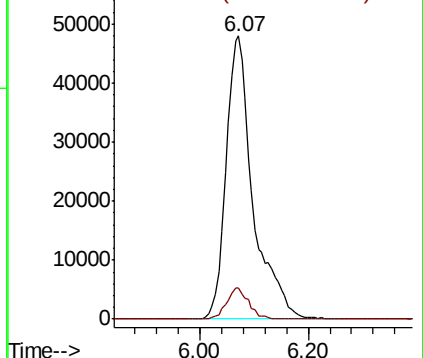
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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0



#24

1,1-Dichloroethane

Concen: 4.165 ug/l

RT: 6.02 min Scan# 703

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

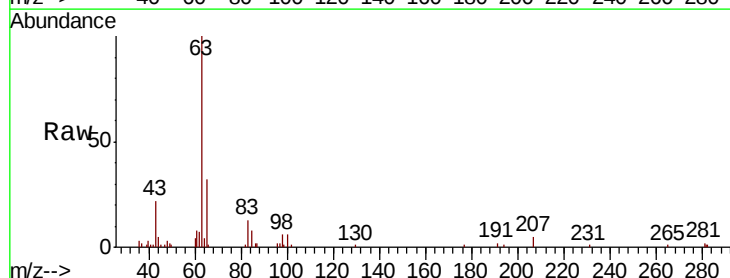
Tgt Ion: 63 Resp: 31355

Ion Ratio Lower Upper

63 100

98 5.8 3.6 10.8

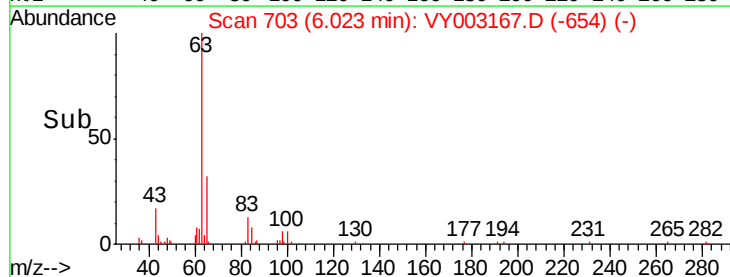
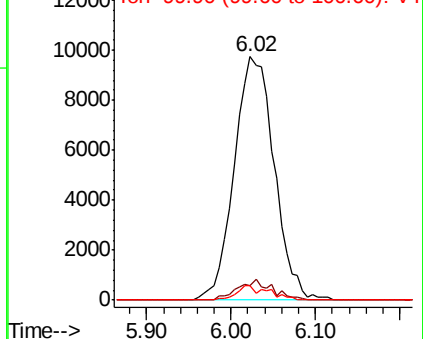
100 6.0 2.4 7.2

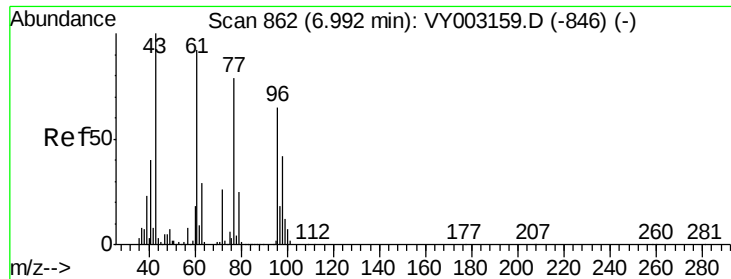


Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0





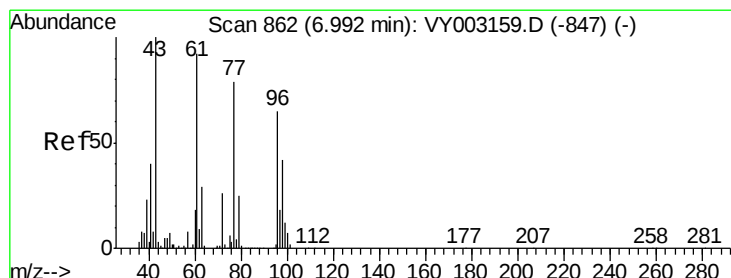
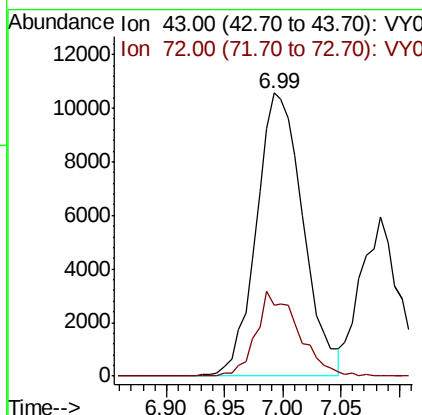
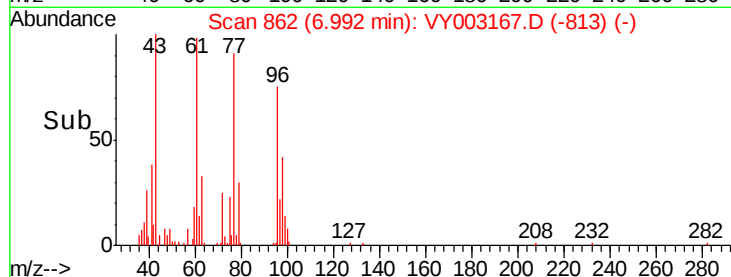
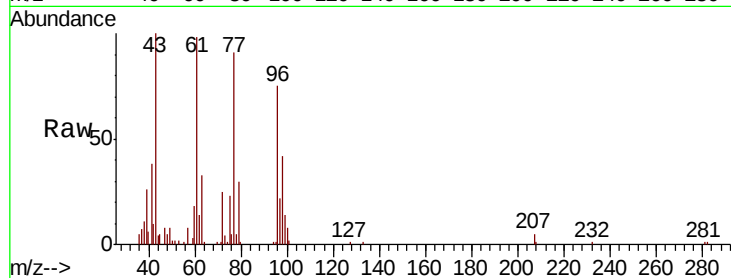
#25
2-Butanone
Concen: 20.056 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 29441
Ion Ratio Lower Upper
43 100
72 25.2 20.9 31.3

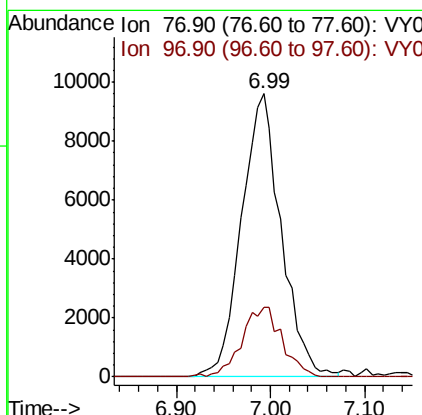
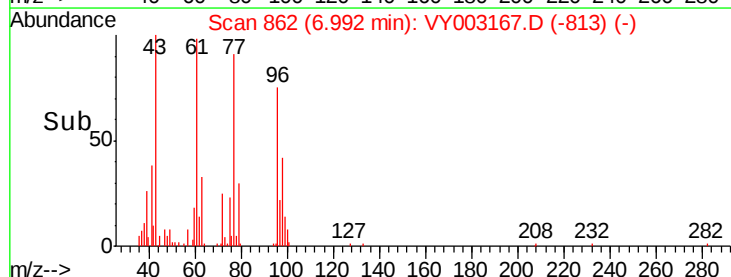
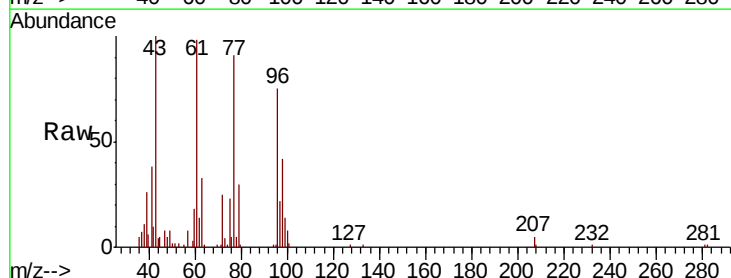
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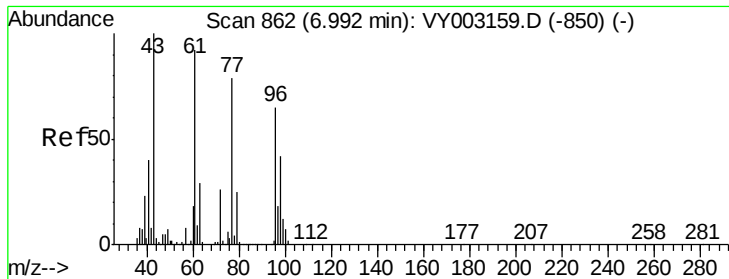
MMDadoda
7/13/2020 10:47:53 AM



#26
2,2-Dichloropropane
Concen: 4.182 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 77 Resp: 28354
Ion Ratio Lower Upper
77 100
97 24.9 11.6 34.7





#27

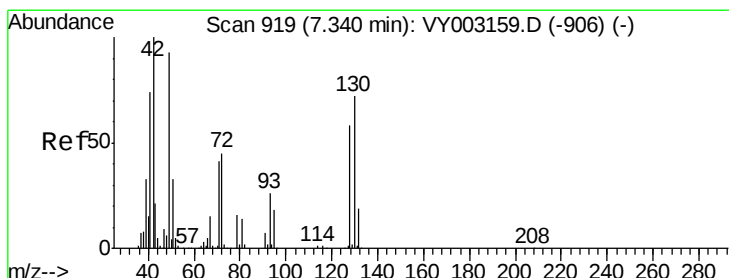
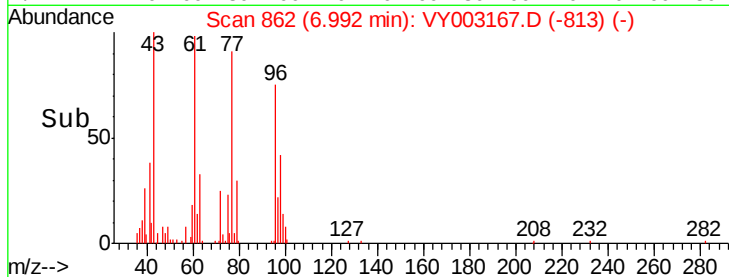
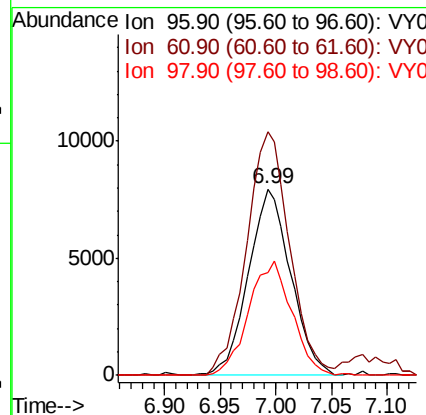
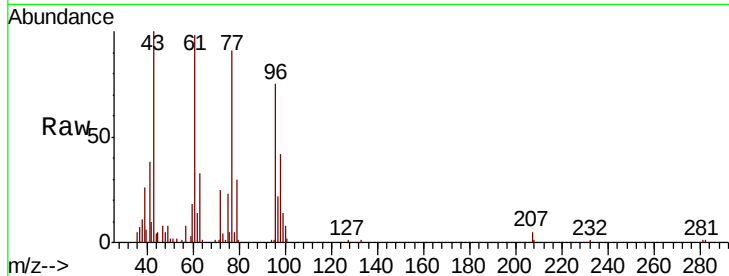
cis-1,2-Dichloroethene
Concen: 4.288 ug/l
RT: 6.99 min Scan# 862
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.2	0.0	281.2
98	62.6	0.0	129.8

Manual Integrations
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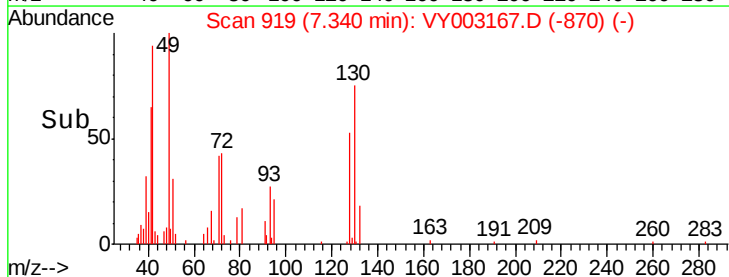
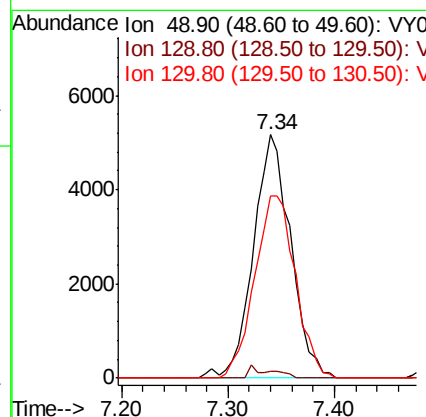
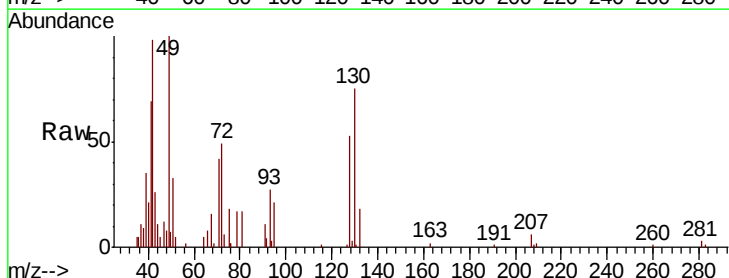
MMDadoda
7/13/2020 10:47:53 AM

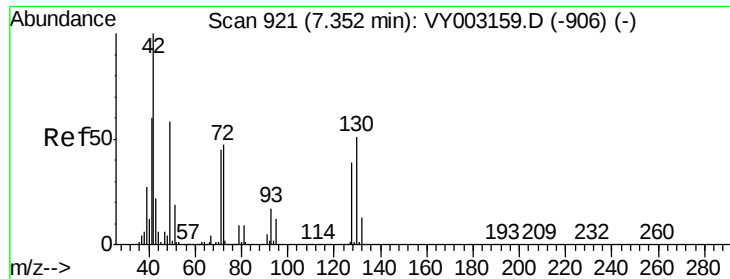


#28

Bromochloromethane
Concen: 3.900 ug/l
RT: 7.34 min Scan# 919
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	81.6	64.9	97.3





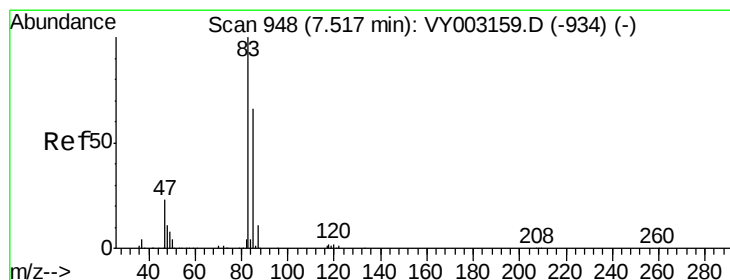
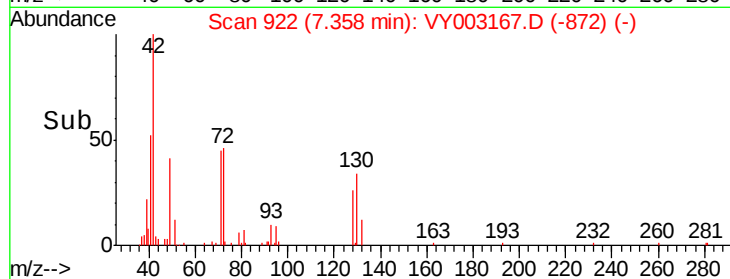
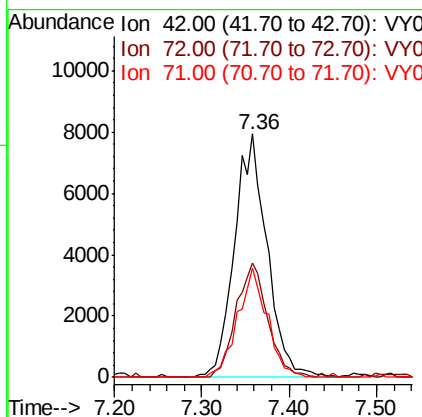
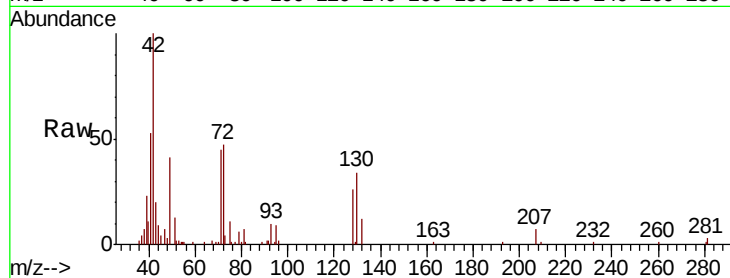
#29
Tetrahydrofuran
Concen: 20.890 ug/l
RT: 7.36 min Scan# 922
Delta R.T. 0.01 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.7	55.1
71	40.9	34.2	51.4

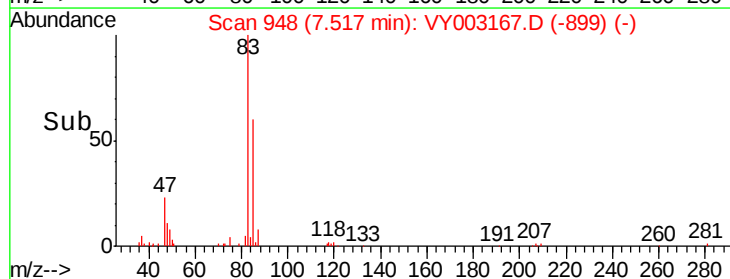
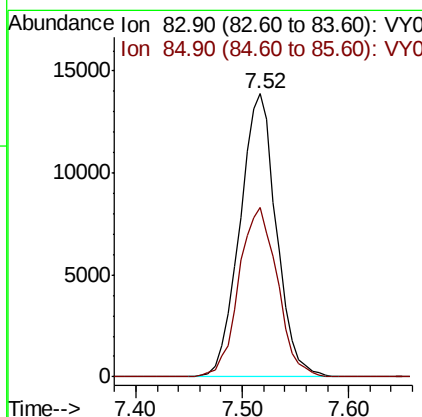
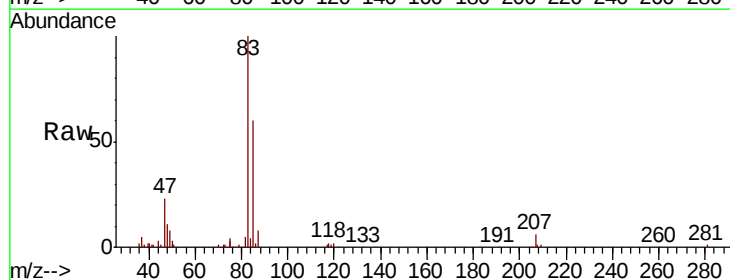
Manual Integrations
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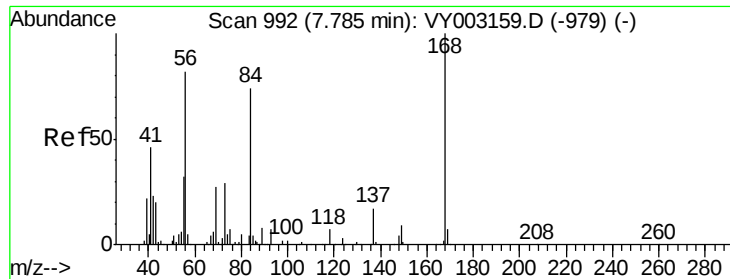
MMDadoda
7/13/2020 10:47:53 AM



#30
Chloroform
Concen: 4.307 ug/l
RT: 7.52 min Scan# 948
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.8	52.6	78.8





#31

Cyclohexane

Concen: 5.146 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

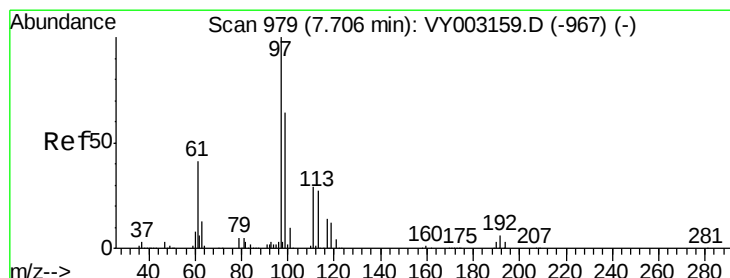
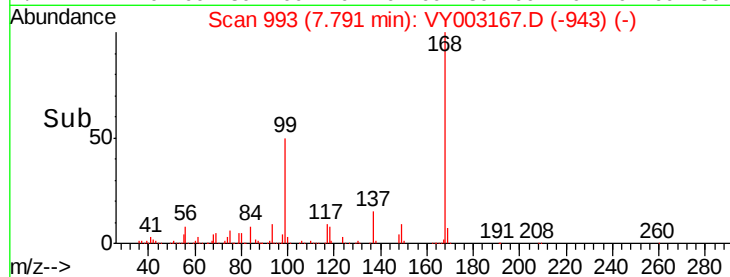
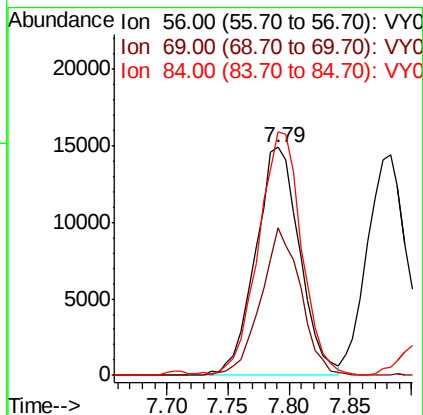
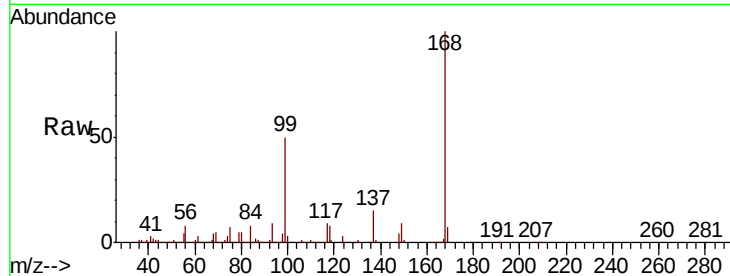
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion	56	Ratio	Lower	Upper
56	100			
69	64.8	26.7	40.1	#
84	106.2	72.3	108.5	

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 4.204 ug/l

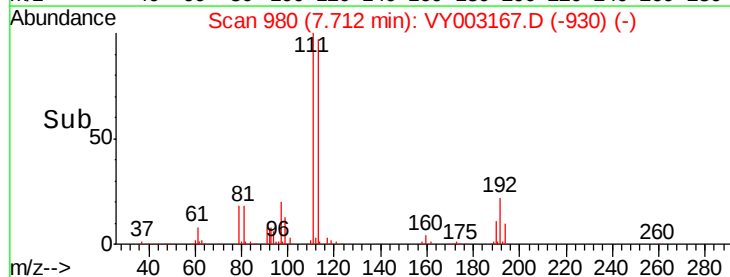
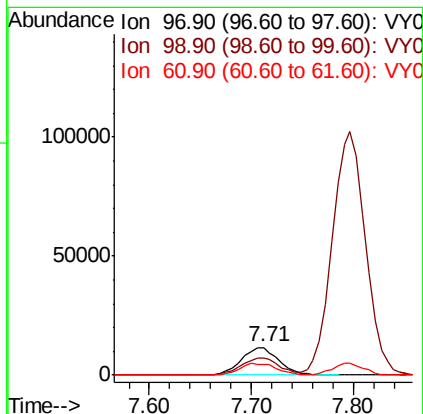
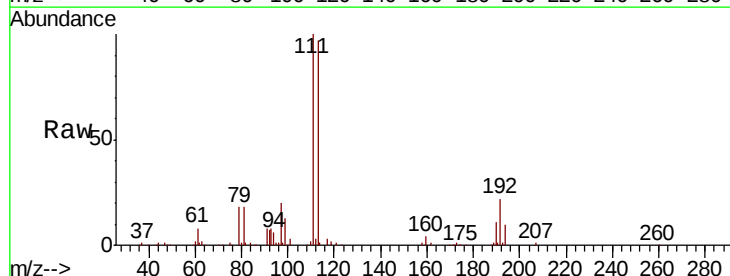
RT: 7.71 min Scan# 980

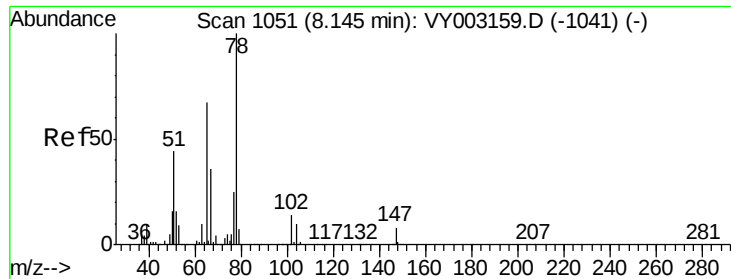
Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion	97	Ratio	Lower	Upper
97	100			
99	65.0	52.1	78.1	
61	42.7	33.9	50.9	





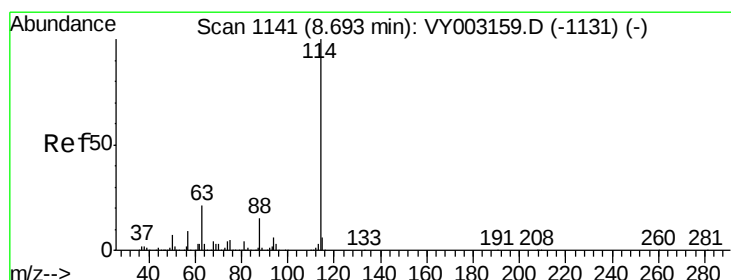
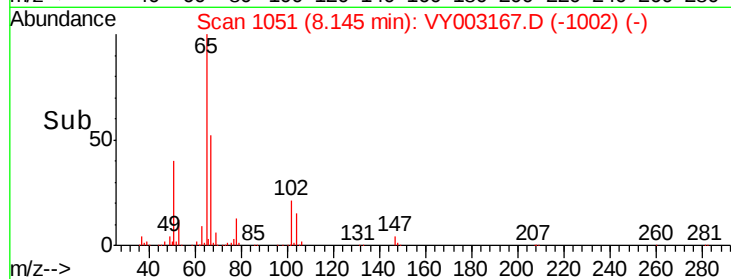
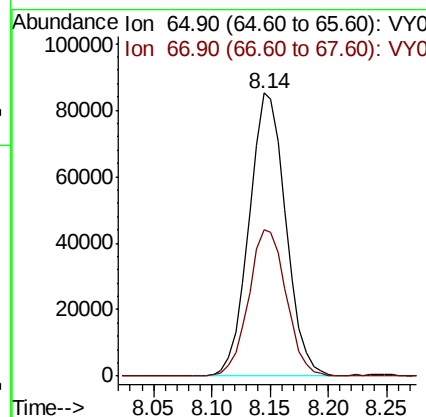
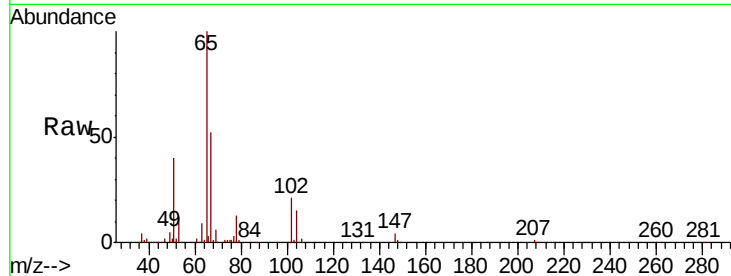
#33
 1,2-Dichloroethane-d4
 Concen: 46.869 ug/l
 RT: 8.14 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.0	0.0	105.2	

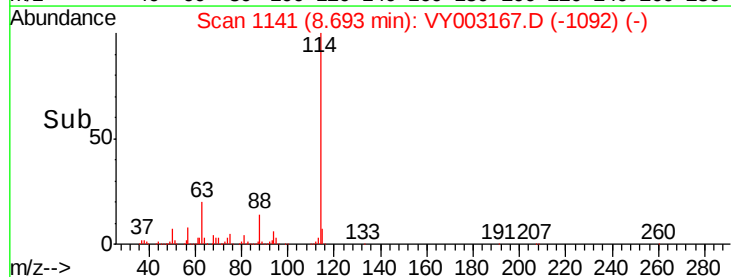
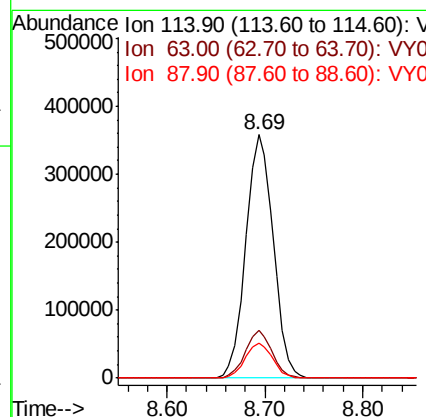
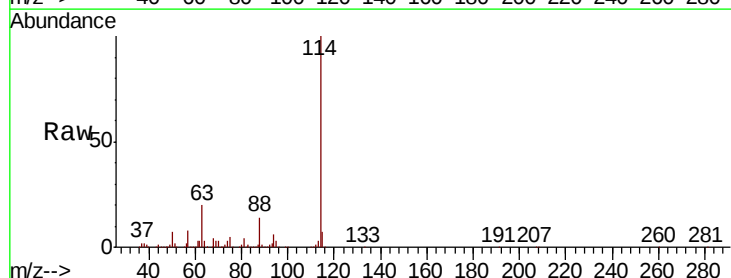
Manual Integrations
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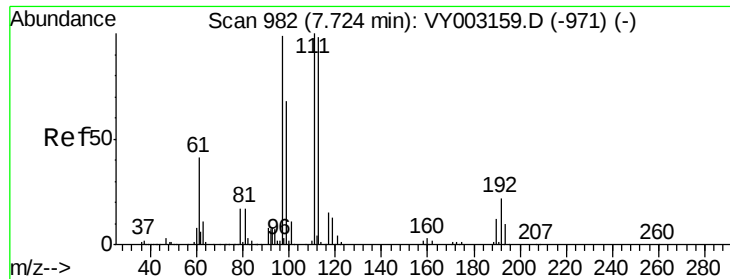
MMDadoda
 7/13/2020 10:47:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.6	0.0	41.2	
88	14.5	0.0	30.2	





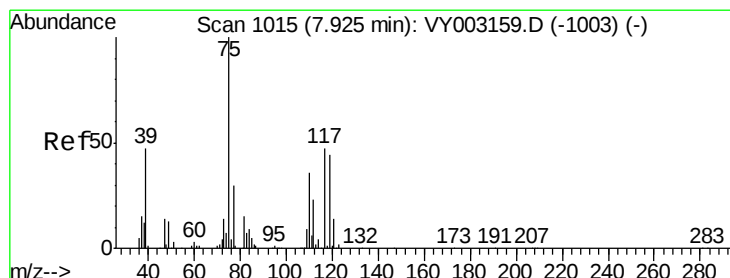
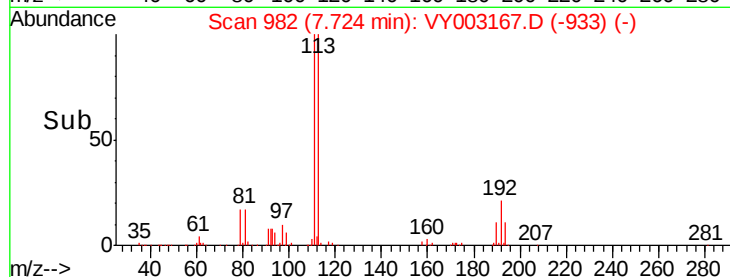
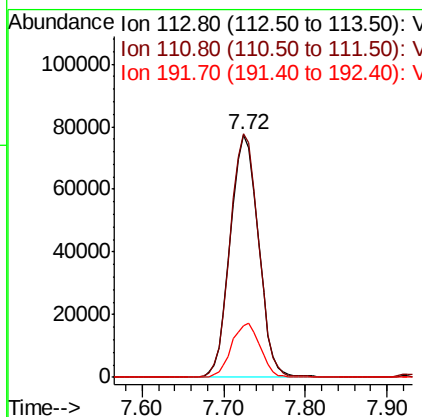
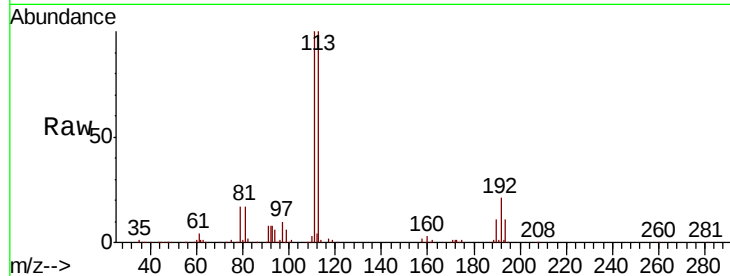
#35
 Dibromofluoromethane
 Concen: 46.049 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.0	82.1	123.1	
192	22.7	18.8	28.2	

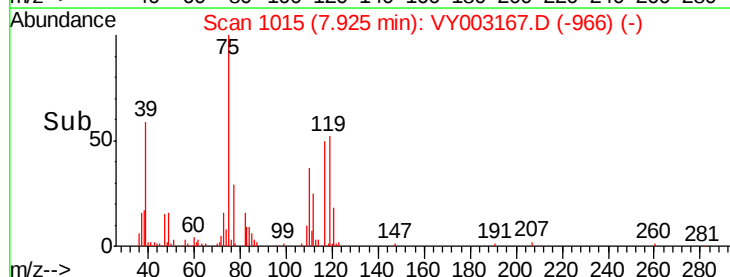
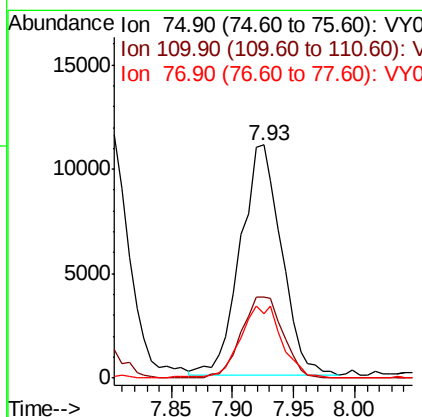
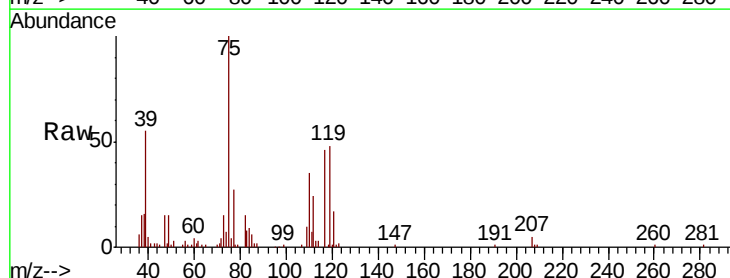
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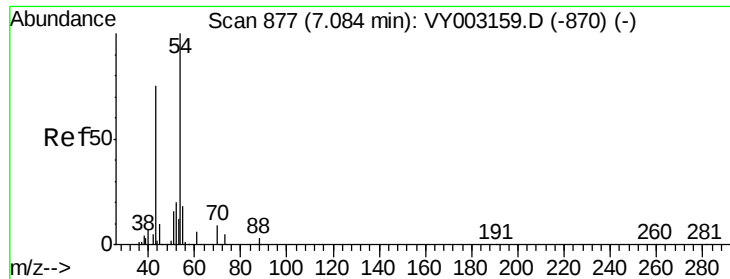
MMDadoda
 7/13/2020 10:47:53 AM



#36
 1,1-Dichloropropene
 Concen: 4.093 ug/l
 RT: 7.93 min Scan# 1015
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.6	18.1	54.1	
77	31.7	24.8	37.2	





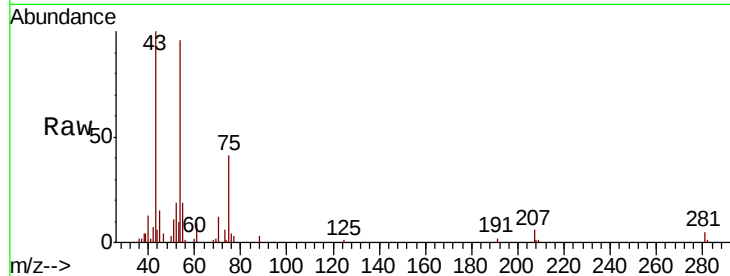
#37
Ethyl Acetate
Concen: 4.090 ug/l
RT: 7.08 min Scan# 877
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.5	11.8	17.6
70	12.8	8.6	13.0

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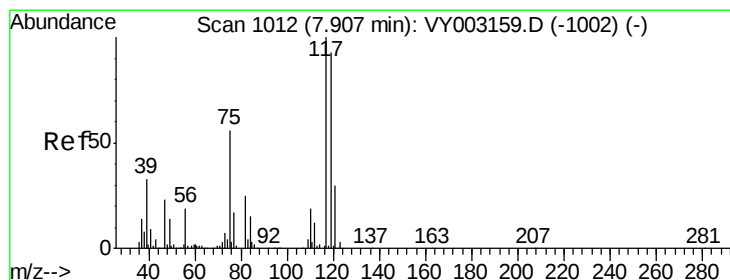
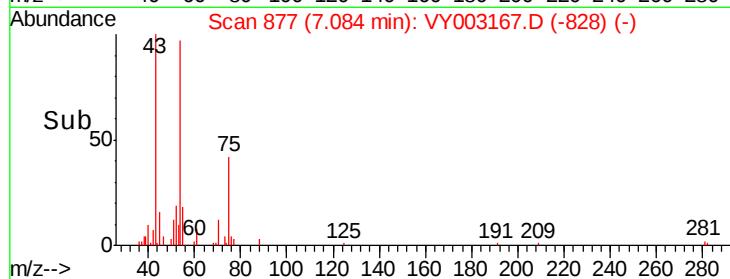
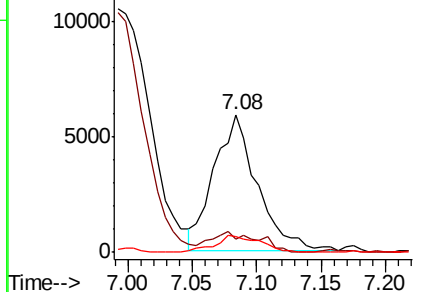


Abundance

Ion 43.00 (42.70 to 43.70): VY0

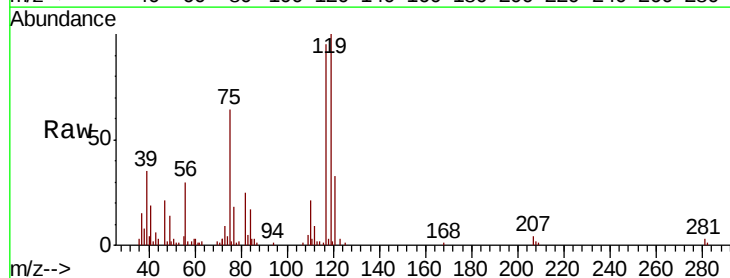
Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0



#38
Carbon Tetrachloride
Concen: 3.858 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	105.1	74.5	111.7
121	34.4	24.2	36.2

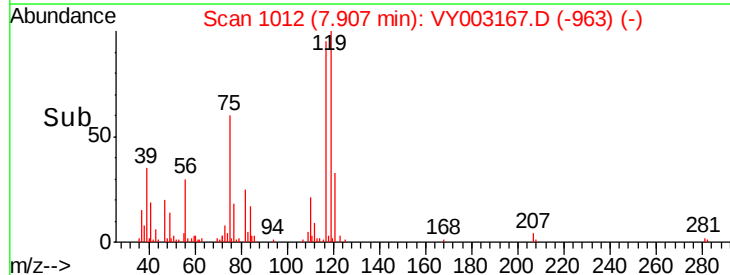
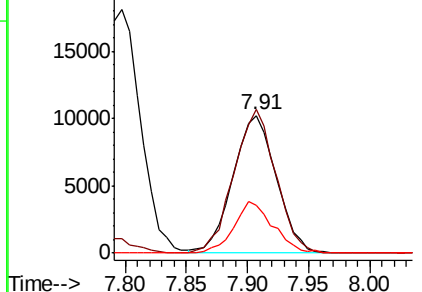


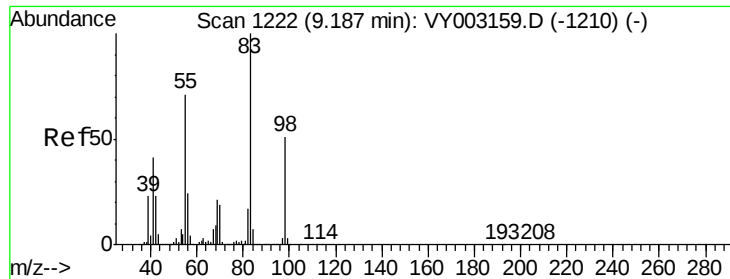
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





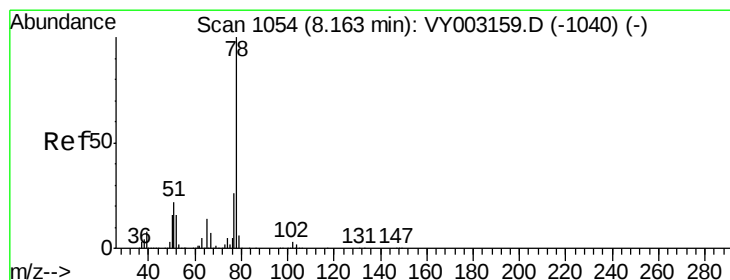
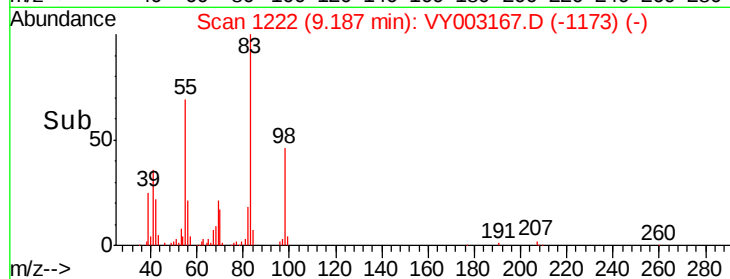
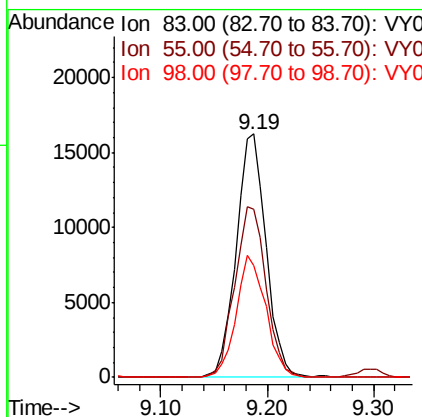
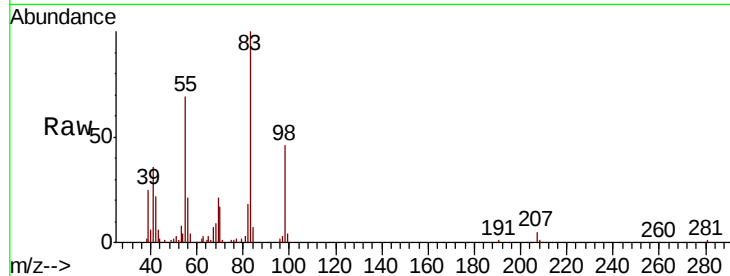
#39
Methvlcvclohexane
Concen: 4.034 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.2	57.2	85.8
98	46.0	41.0	61.6

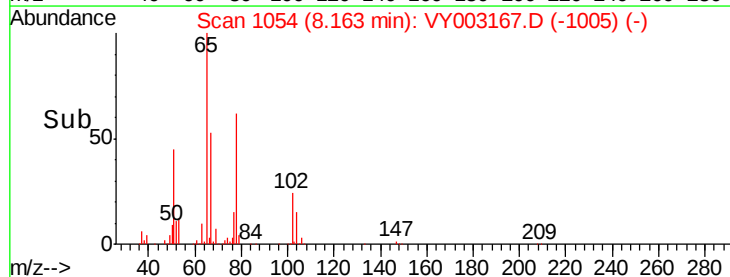
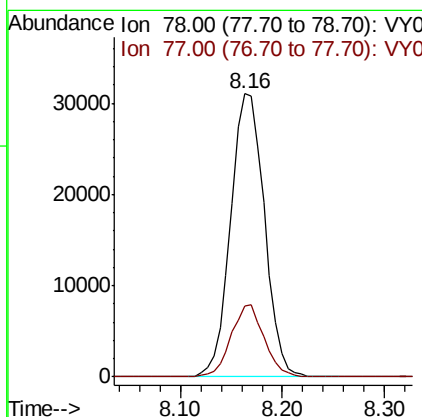
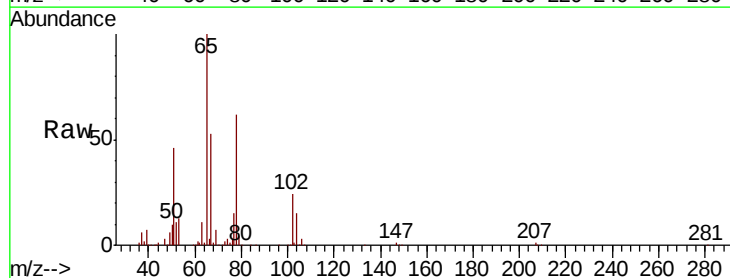
Manual Integrations
APPROVED

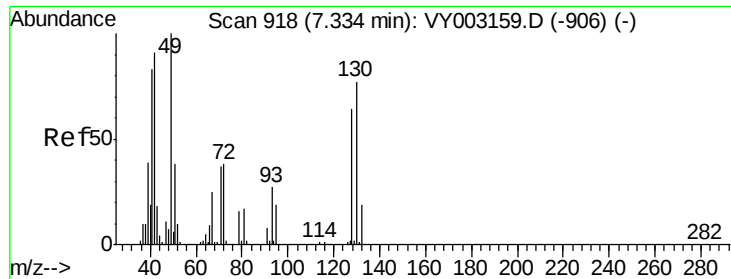
MMDadoda
7/13/2020 10:47:53 AM



#40
Benzene
Concen: 4.090 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	20.7	31.1





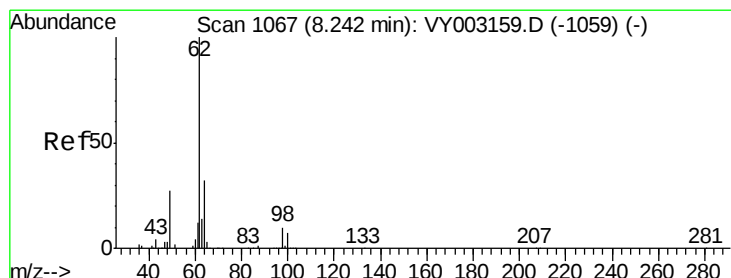
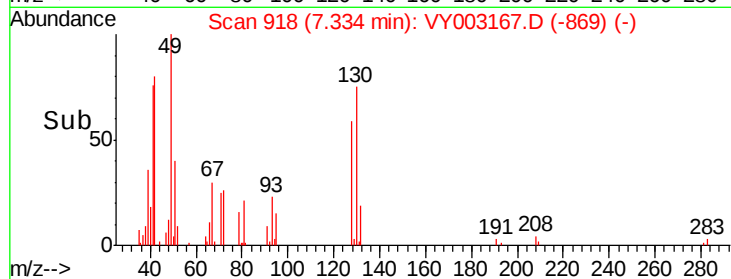
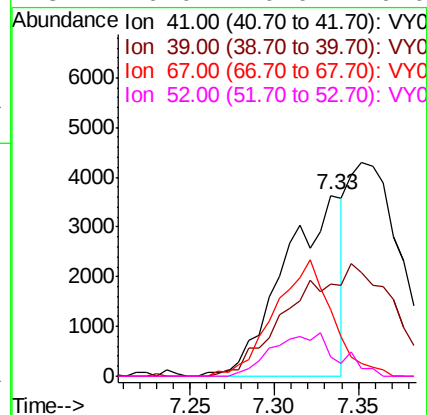
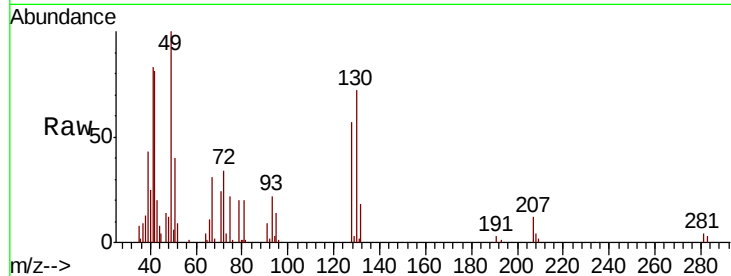
#41
Methacrylonitrile
Concen: 4.301 ug/l m
RT: 7.33 min Scan# 918
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion:	41	Resp:	8813
Ion	Ratio	Lower	Upper
41	100		
39	108.5	83.3	124.9
67	0.0	0.0	0.0
52	0.0	0.0	0.0

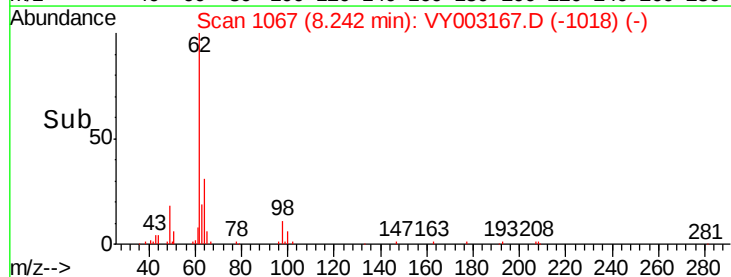
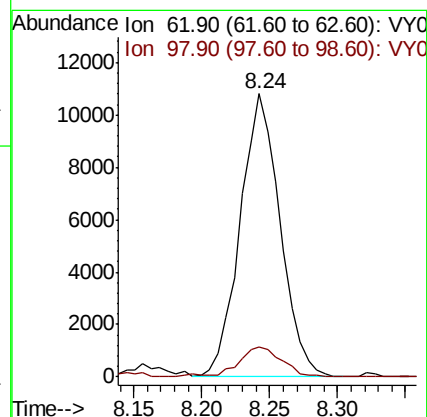
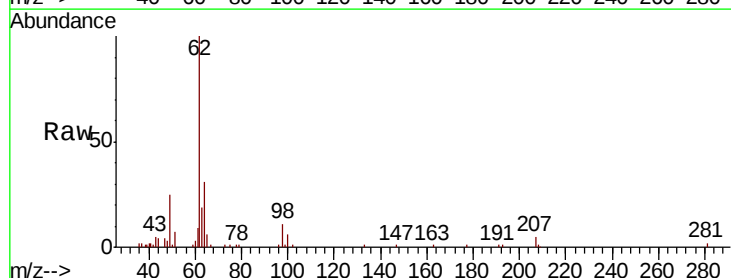
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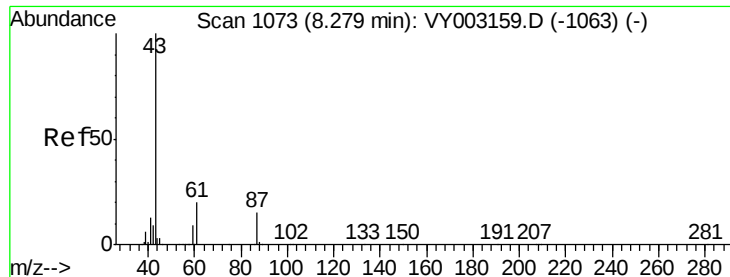
MMDadoda
7/13/2020 10:47:53 AM



#42
1,2-Dichloroethane
Concen: 4.139 ug/l
RT: 8.24 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion:	62	Resp:	22164
Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	19.0





#43

Isopropyl Acetate

Concen: 3.879 ug/l

RT: 8.27 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

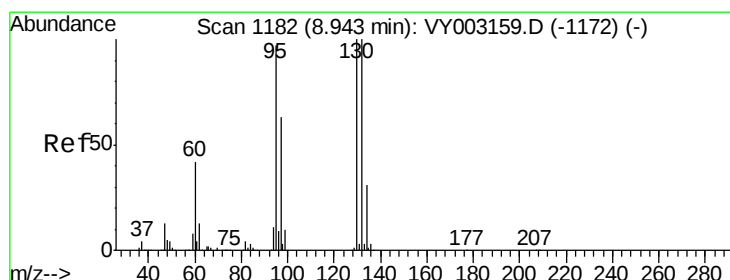
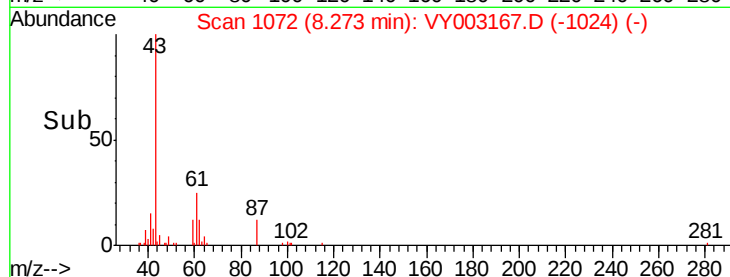
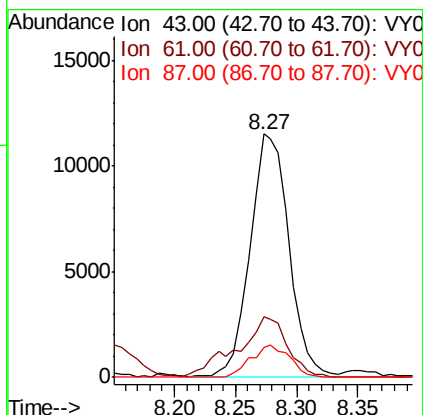
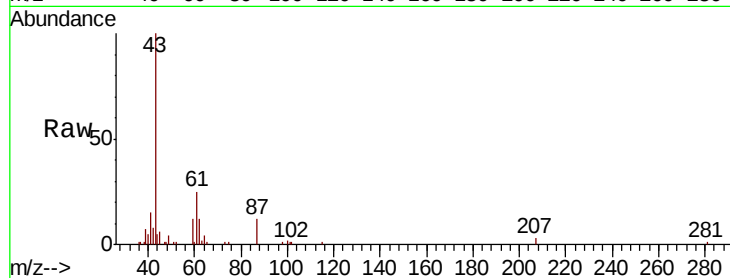
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	43	Resp:	25544
Ion	Ratio	Lower	Upper
43	100		
61	32.0	23.7	35.5
87	13.2	11.4	17.0

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#44

Trichloroethene

Concen: 4.099 ug/l

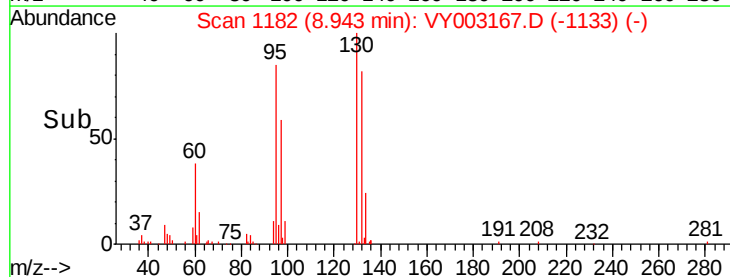
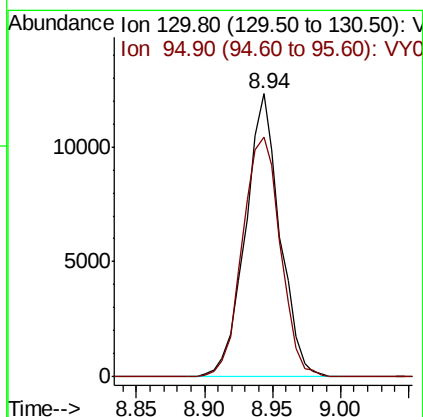
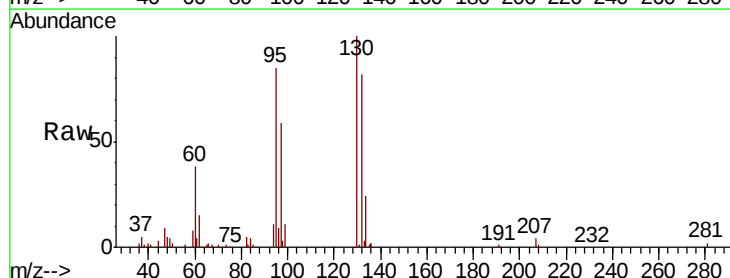
RT: 8.94 min Scan# 1182

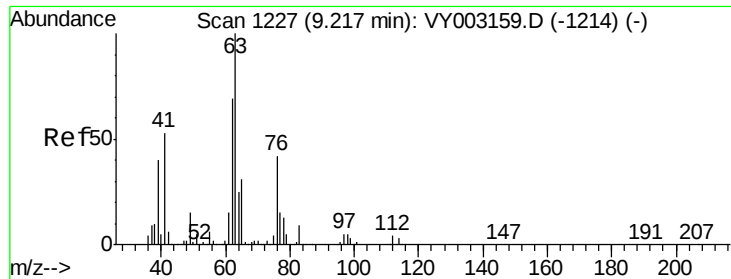
Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion:	130	Resp:	21858
Ion	Ratio	Lower	Upper
130	100		
95	84.5	0.0	193.8





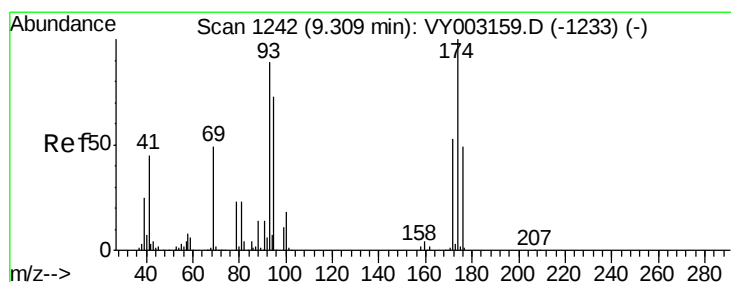
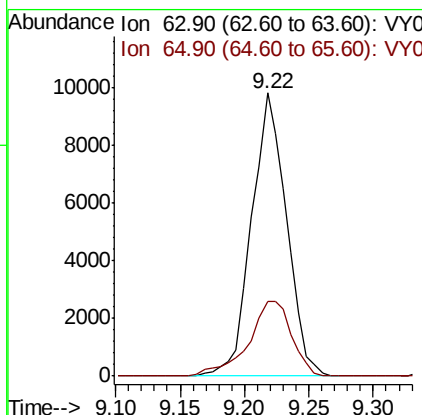
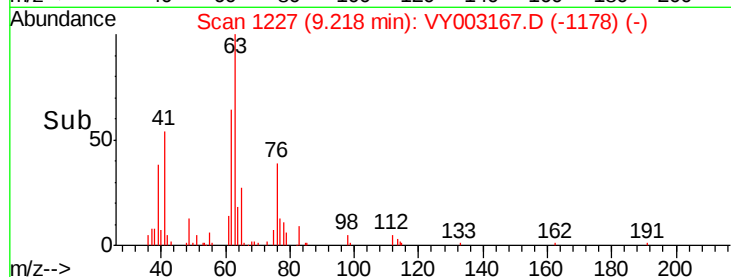
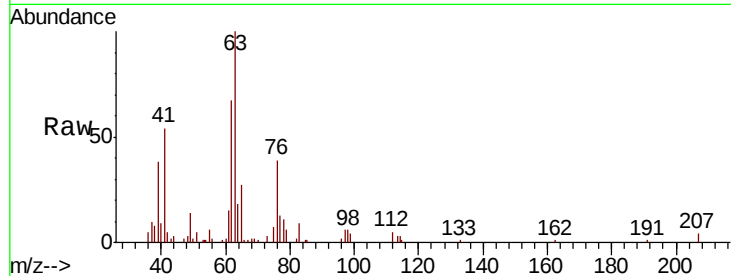
#45
 1,2-Dichloropropane
 Concen: 4.088 ug/l
 RT: 9.22 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion: 63 Resp: 18401
 Ion Ratio Lower Upper
 63 100
 65 26.6 25.0 37.4

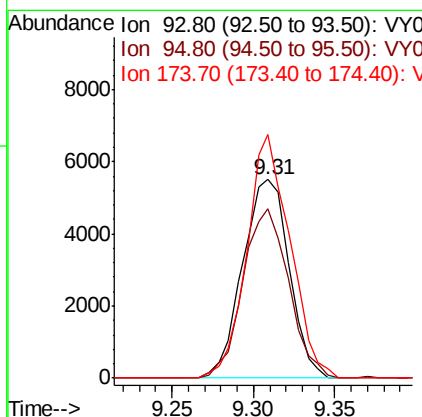
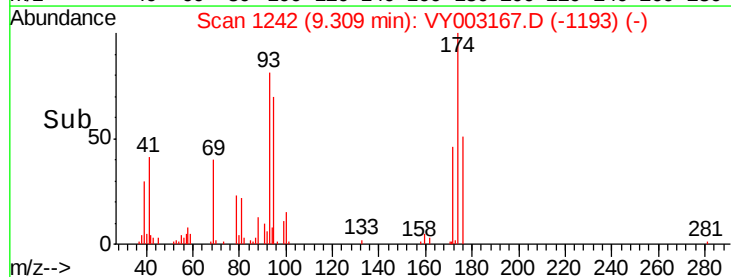
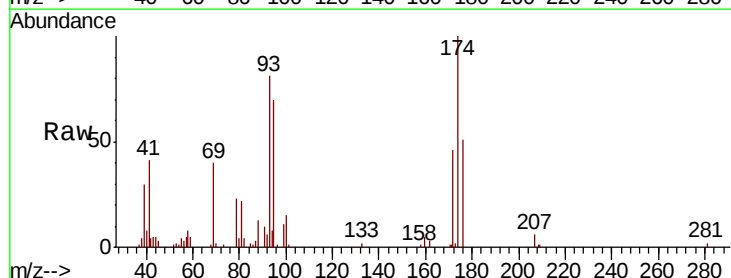
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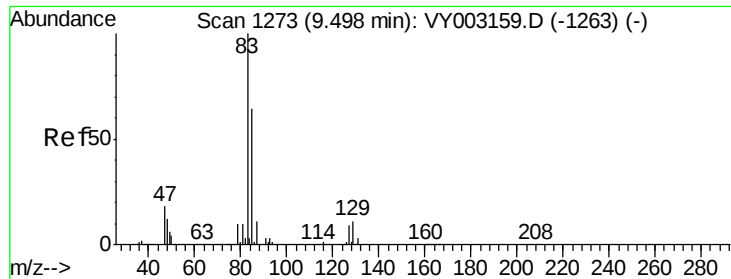
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#46
 Dibromomethane
 Concen: 4.137 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 93 Resp: 10876
 Ion Ratio Lower Upper
 93 100
 95 84.1 66.6 99.8
 174 113.6 90.2 135.4





#47

Bromodichloromethane

Concen: 4.017 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

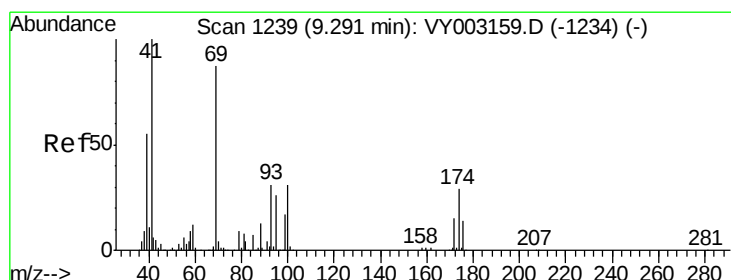
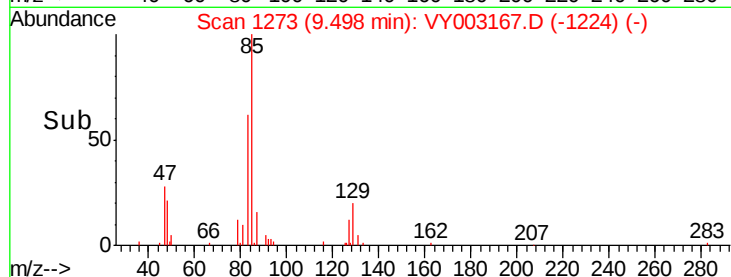
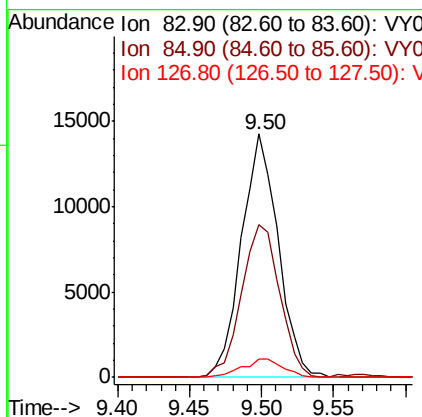
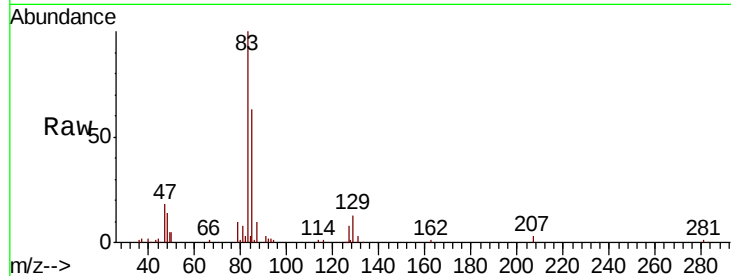
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	83	Resp:	25114
Ion Ratio	Lower	Upper	
83	100		
85	62.8	50.9	76.3
127	7.7	7.0	10.4

Manual Integrations
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MMDadoda
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#48

Methyl methacrylate

Concen: 3.774 ug/l

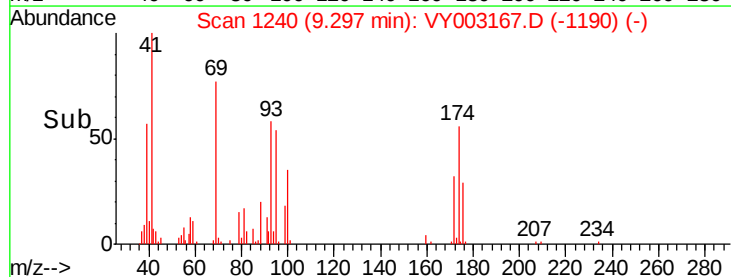
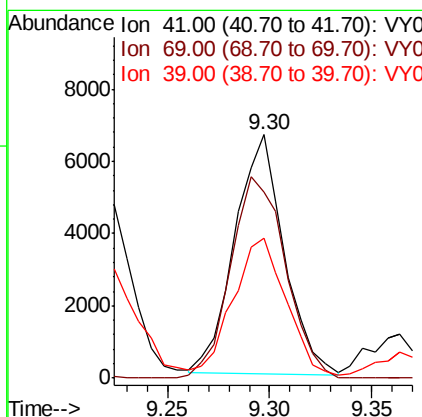
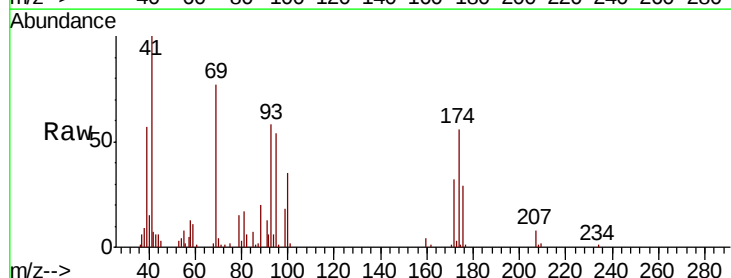
RT: 9.30 min Scan# 1240

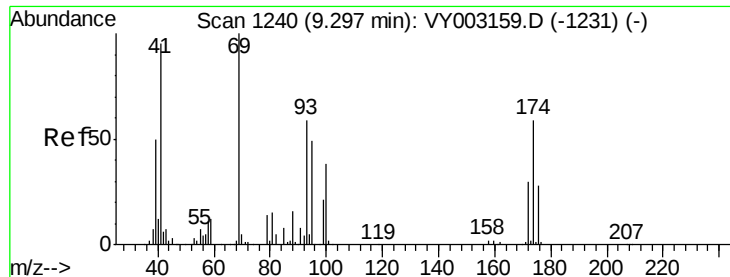
Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion:	41	Resp:	11110
Ion Ratio	Lower	Upper	
41	100		
69	94.0	74.5	111.7
39	61.3	47.5	71.3





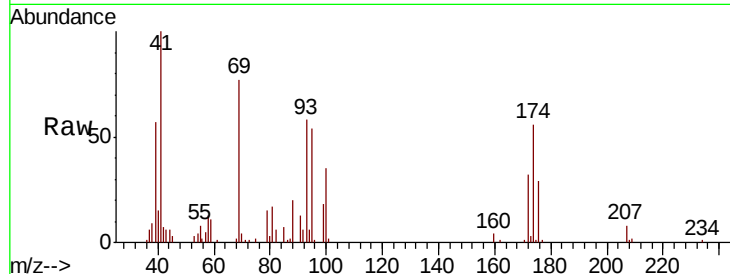
#49
1,4-Dioxane
Concen: 76.280 ug/l
RT: 9.30 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.2	25.6	38.4#
58	77.9	47.8	71.6#

Manual Integrations
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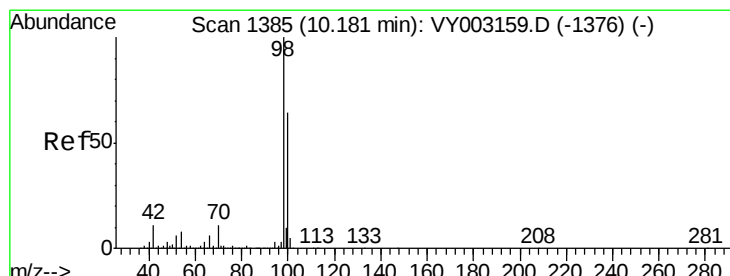
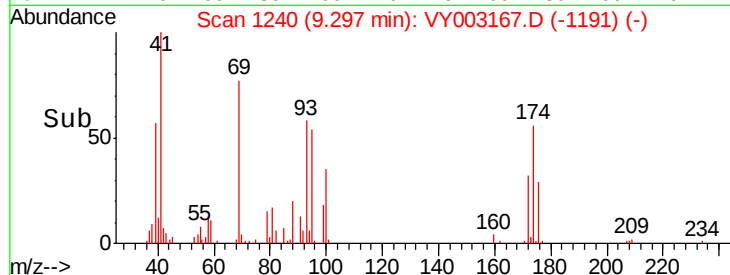
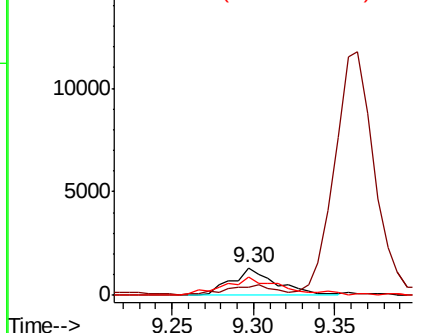


Abundance

Ion 88.00 (87.70 to 88.70): VY0

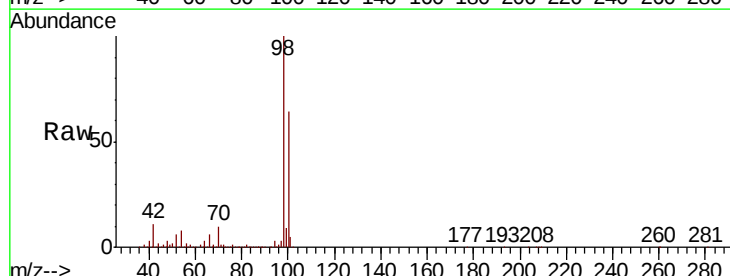
Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#50
Toluene-d8
Concen: 45.364 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

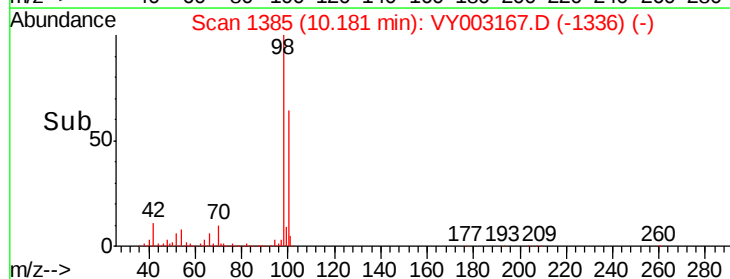
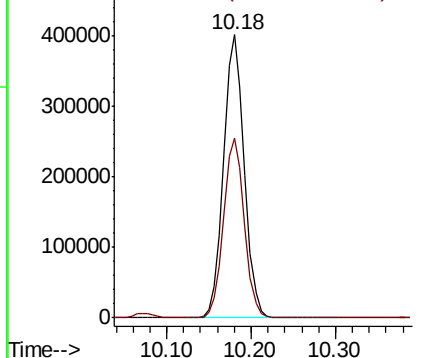
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	50.7	76.1

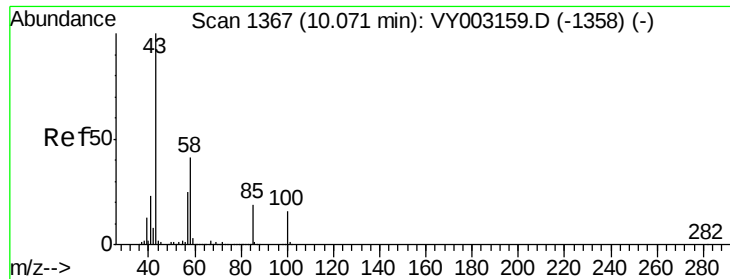


Abundance

Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





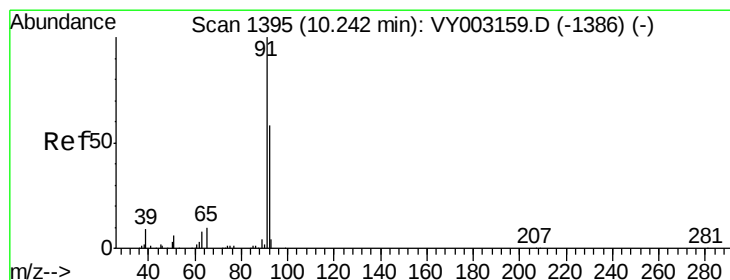
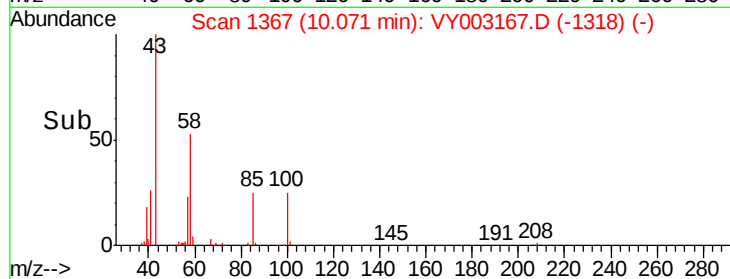
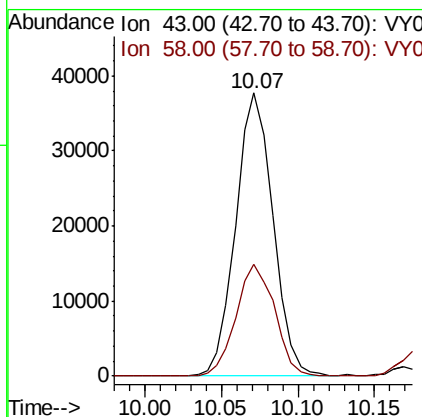
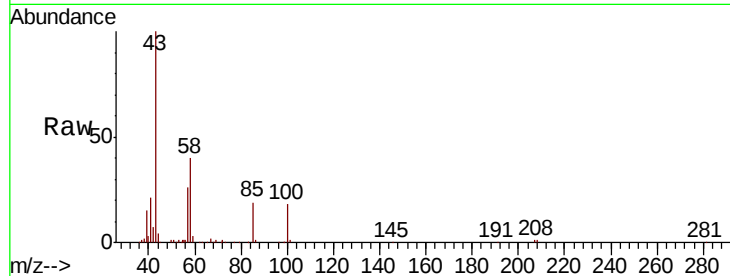
#51
4-Methyl-2-Pentanone
Concen: 18.662 ug/l
RT: 10.07 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	43	Resp	63875
Ion Ratio	100	Lower	Upper
43	100		
58	41.0	32.7	49.1

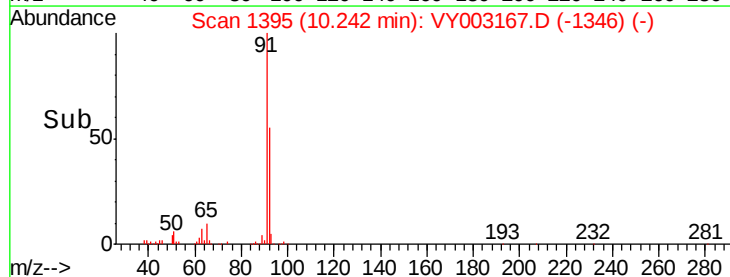
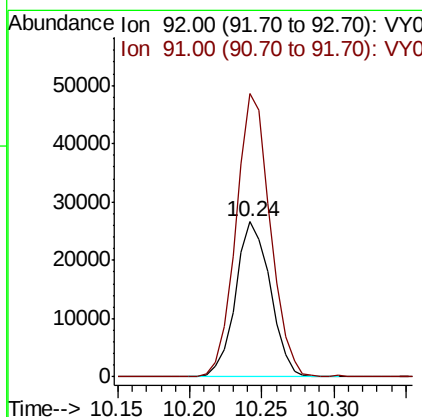
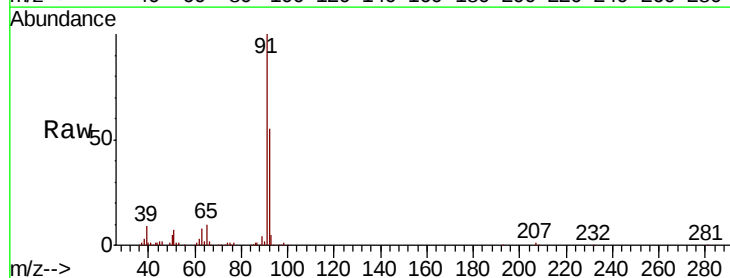
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#52
Toluene
Concen: 4.026 ug/l
RT: 10.24 min Scan# 1395
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	92	Resp	44758
Ion Ratio	100	Lower	Upper
92	100		
91	179.5	139.7	209.5





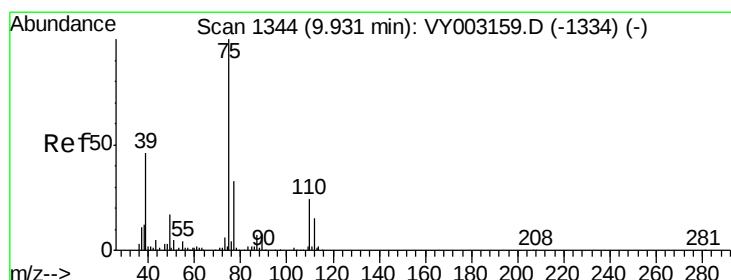
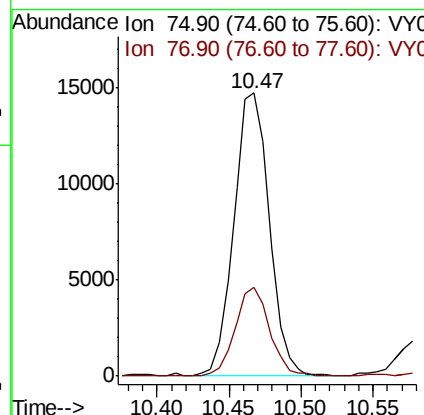
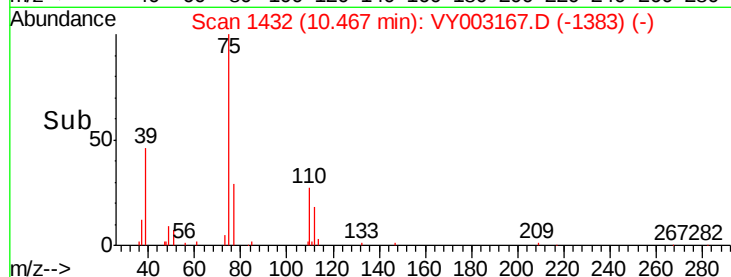
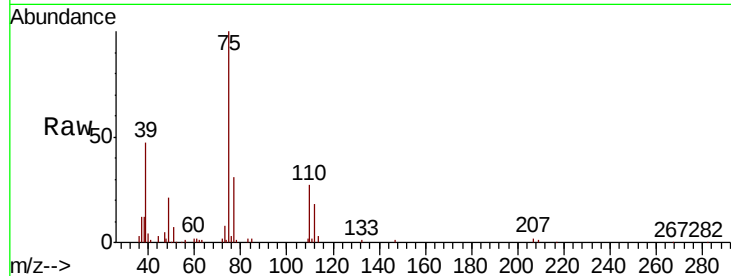
#53
t-1,3-Dichloropropene
Concen: 3.906 ug/l
RT: 10.47 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 75 Resp: 25300
Ion Ratio Lower Upper
75 100
77 31.2 25.2 37.8

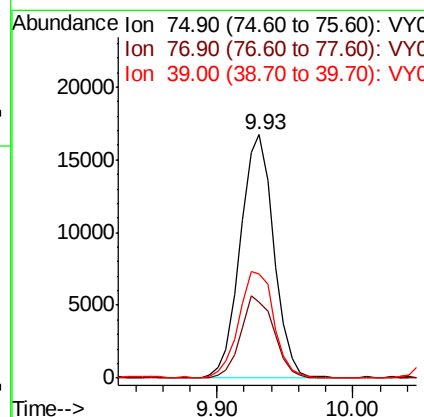
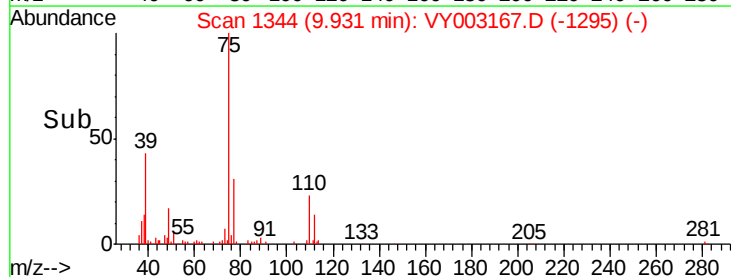
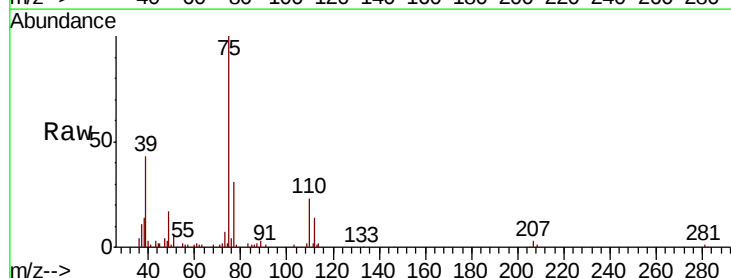
Manual Integrations
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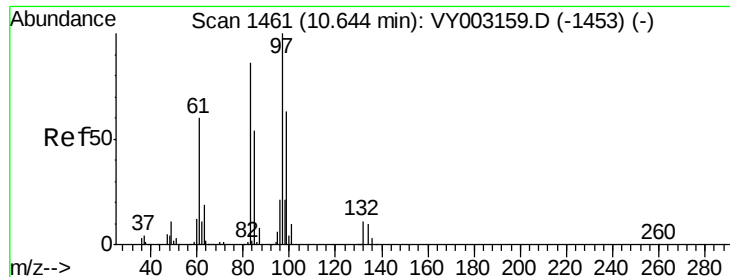
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#54
cis-1,3-Dichloropropene
Concen: 3.861 ug/l
RT: 9.93 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 75 Resp: 28816
Ion Ratio Lower Upper
75 100
77 31.2 26.7 40.1
39 42.8 37.0 55.6





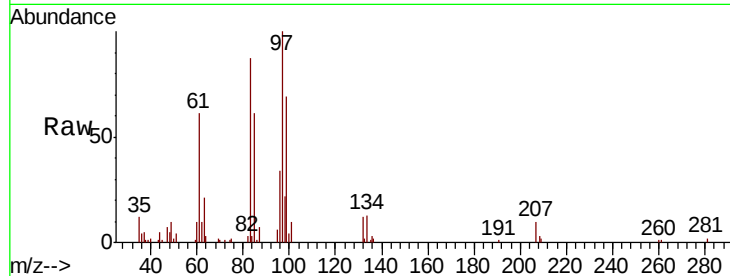
#55
 1,1,2-Trichloroethane
 Concen: 3.900 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

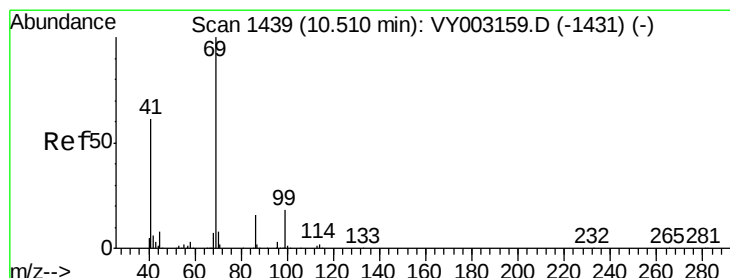
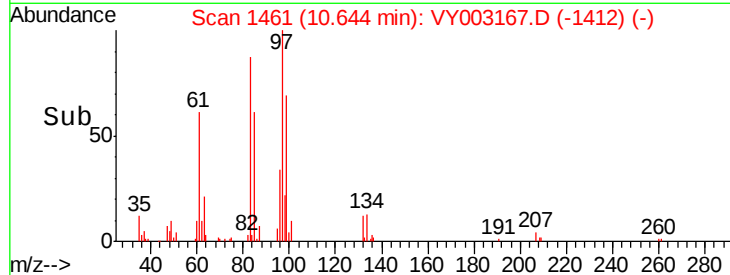
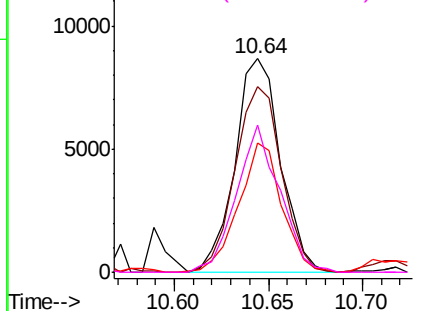
Tot Ion	Ratio	Lower	Upper
97	100		
83	86.7	68.8	103.2
85	60.6	43.1	64.7
99	69.0	50.8	76.2

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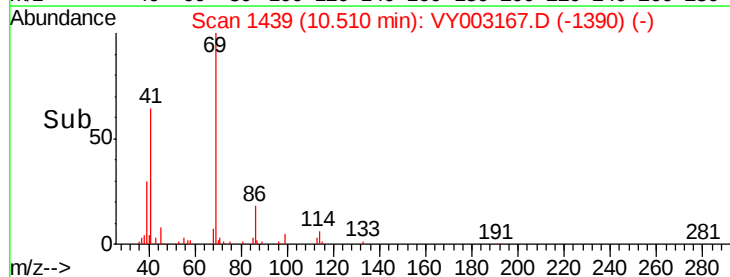
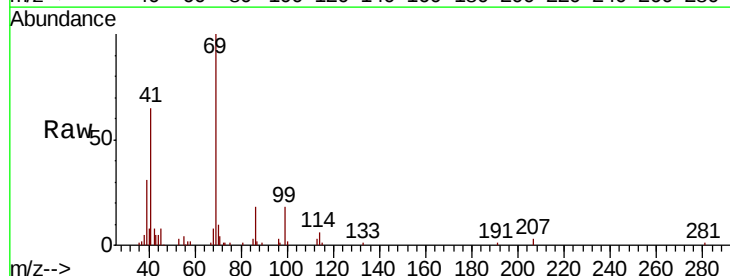
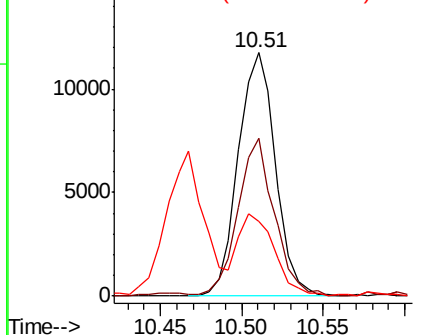
Abundance Ion 96.90 (96.60 to 97.60): VY0
 Ion 82.90 (82.60 to 83.60): VY0
 Ion 84.90 (84.60 to 85.60): VY0
 Ion 98.90 (98.60 to 99.60): VY0

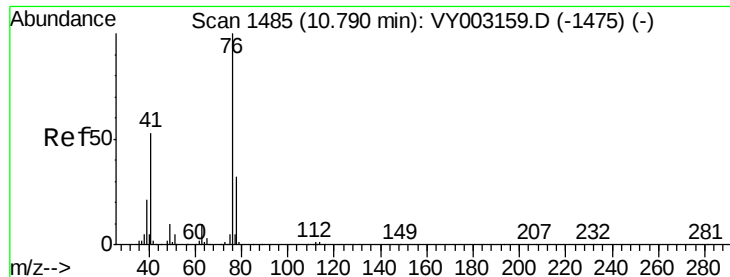


#56
 Ethyl methacrylate
 Concen: 3.689 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.6	50.0	75.0
39	32.4	27.6	41.4

Abundance Ion 69.00 (68.70 to 69.70): VY0
 Ion 41.00 (40.70 to 41.70): VY0
 Ion 39.00 (38.70 to 39.70): VY0





#57

1,3-Dichloropropane

Concen: 4.045 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 76 Resp: 2552

Ion Ratio Lower Upper

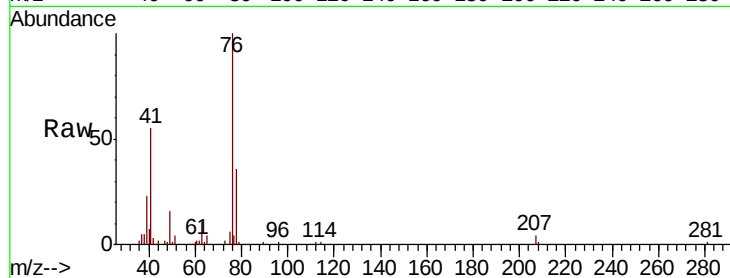
76 100

78 32.4 26.0 39.0

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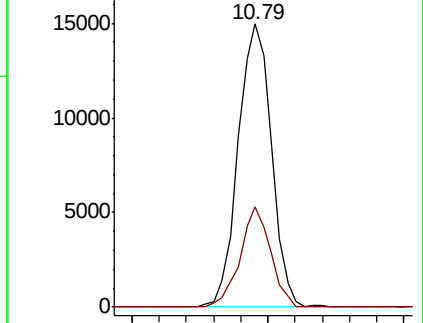
MMDadoda

7/13/2020 10:47:53 AM

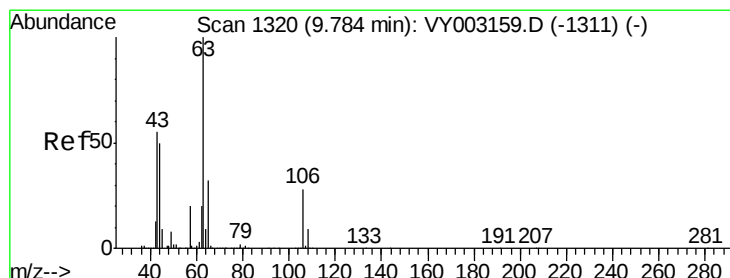
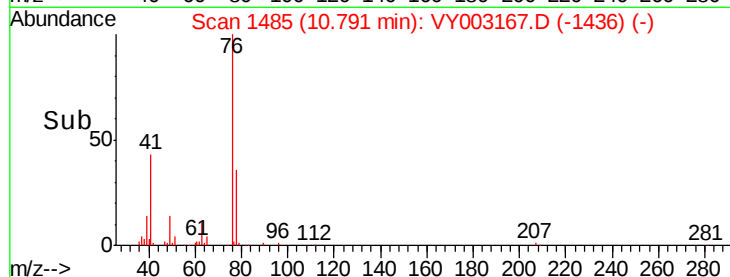


Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 19.052 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VY003167.D

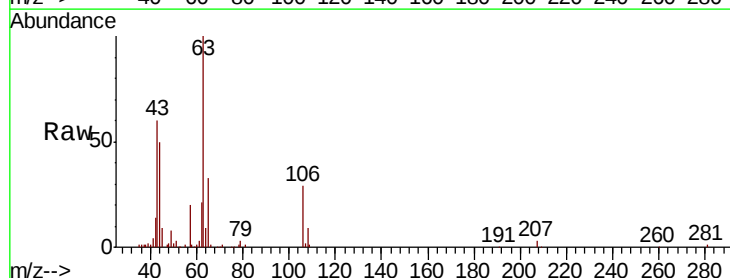
Acq: 10 Jul 2020 16:43

Tgt Ion: 63 Resp: 49209

Ion Ratio Lower Upper

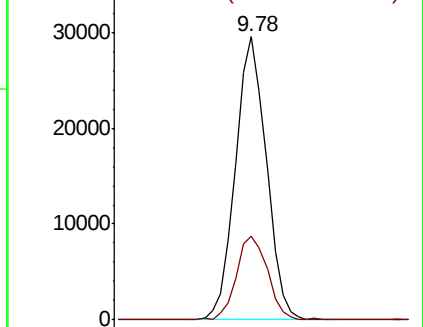
63 100

106 29.9 22.9 34.3

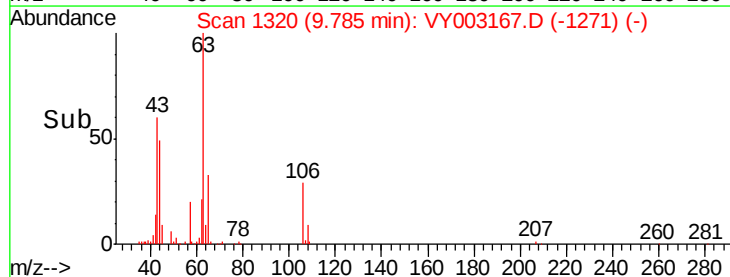


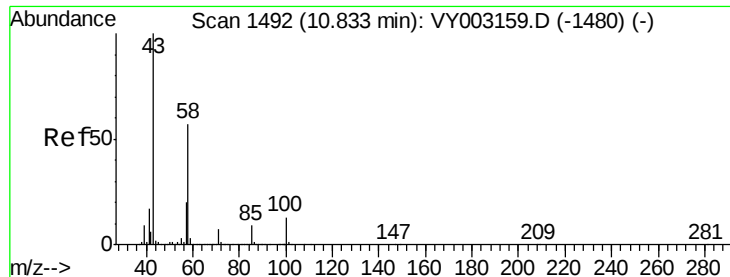
Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V



Time-->





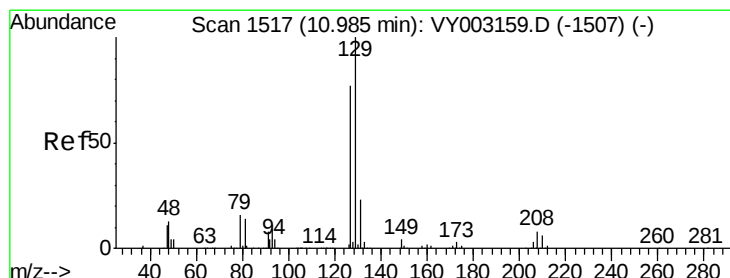
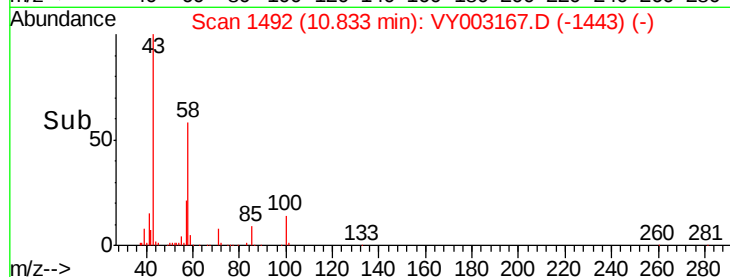
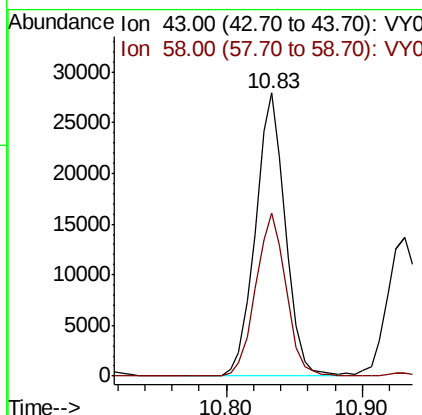
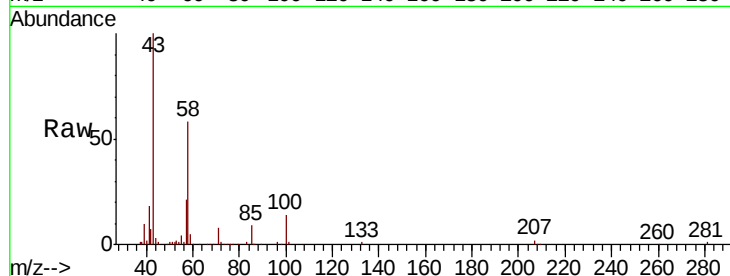
#59
2-Hexanone
Concen: 18.036 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 43094
Ion Ratio Lower Upper
43 100
58 58.5 28.3 85.0

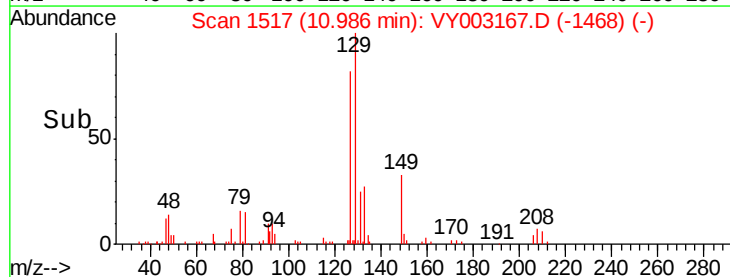
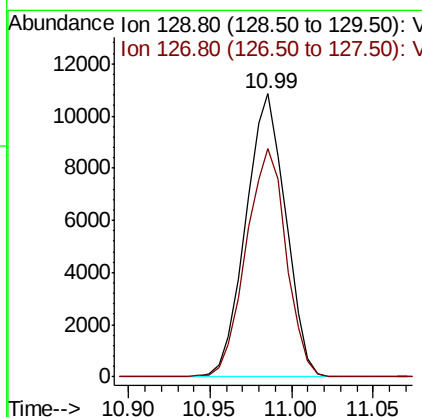
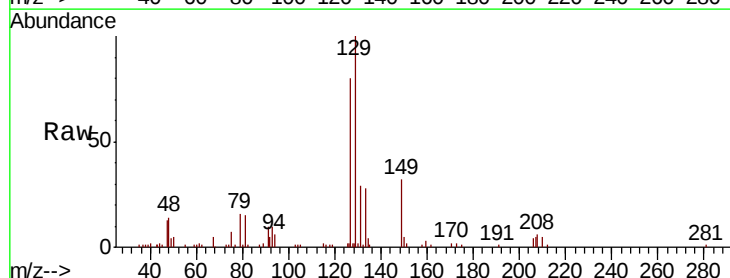
Manual Integrations
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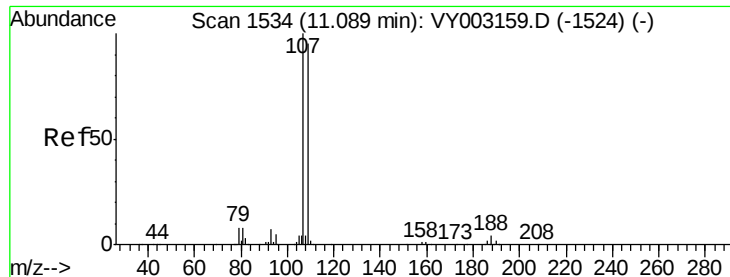
MMDadoda
7/13/2020 10:47:53 AM



#60
Dibromochloromethane
Concen: 3.949 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 129 Resp: 18500
Ion Ratio Lower Upper
129 100
127 81.1 38.5 115.5





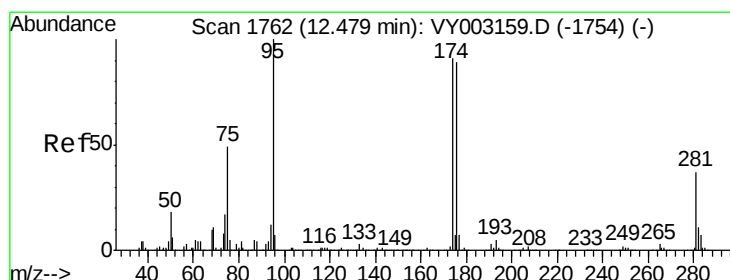
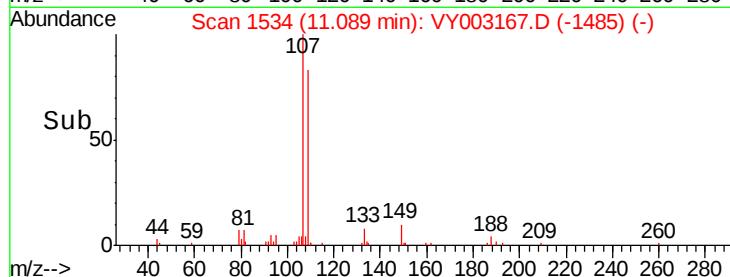
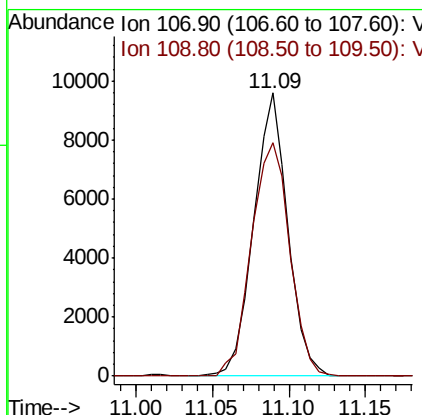
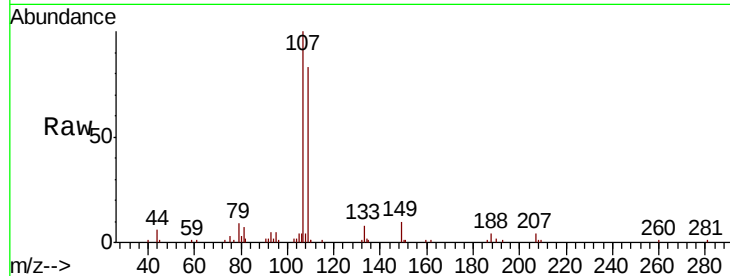
#61
 1,2-Dibromoethane
 Concen: 4.048 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion: 107 Resp: 14883
 Ion Ratio Lower Upper
 107 100
 109 92.6 75.6 113.4

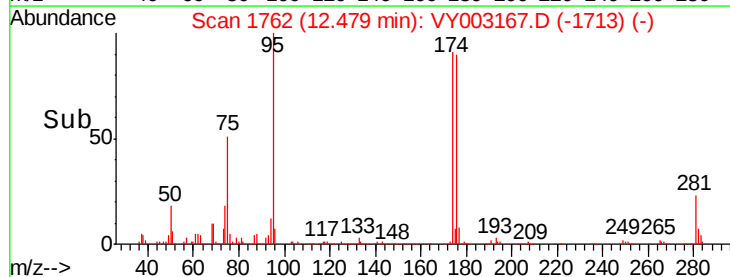
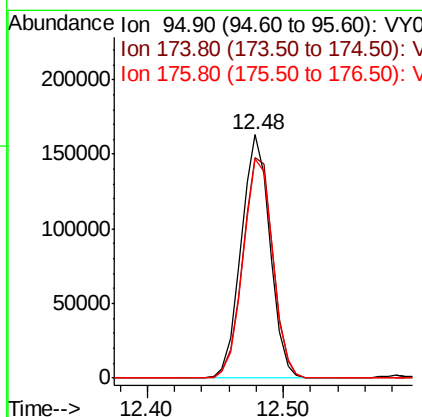
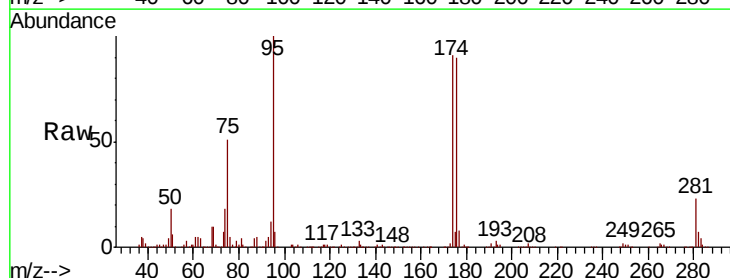
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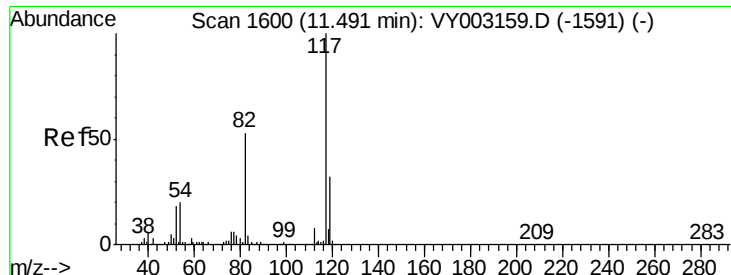
MMDadoda
 7/13/2020 10:47:53 AM



#62
 4-Bromofluorobenzene
 Concen: 44.897 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion: 95 Resp: 241879
 Ion Ratio Lower Upper
 95 100
 174 94.8 0.0 190.6
 176 92.7 0.0 186.4





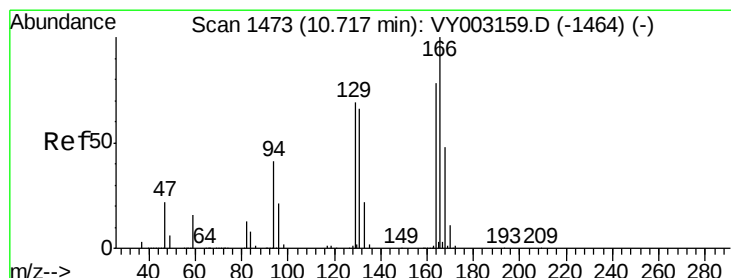
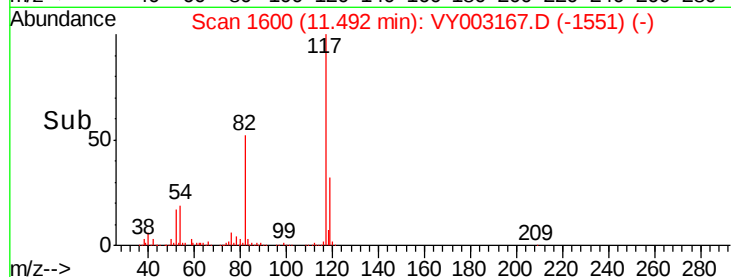
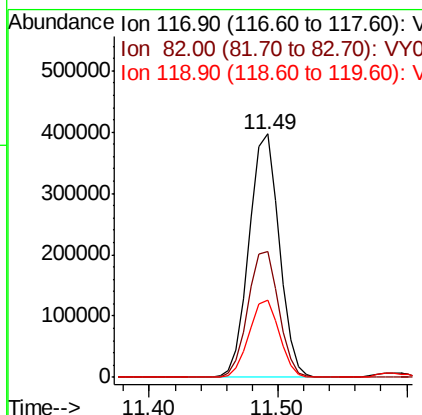
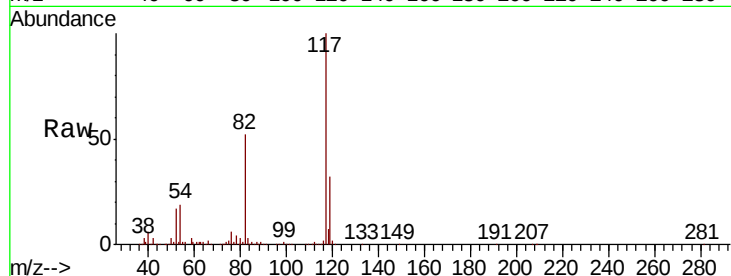
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	638825		
82	51.8	42.0	63.0	
119	31.8	25.5	38.3	

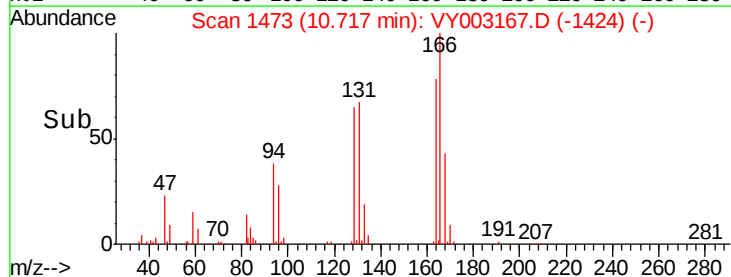
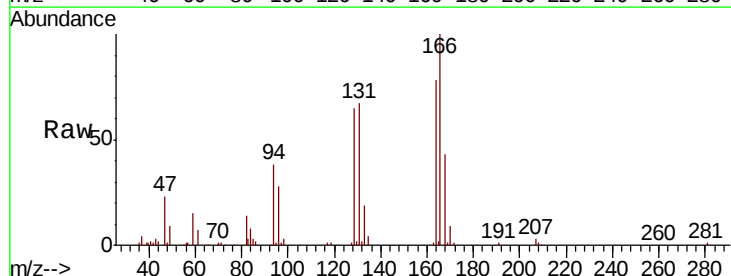
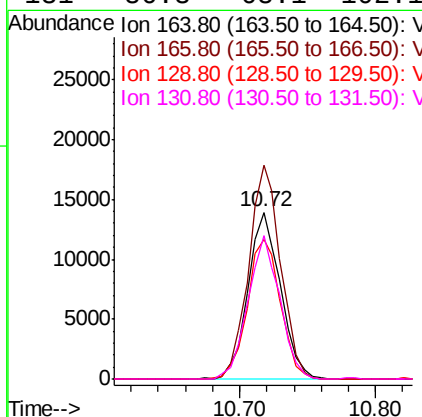
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#64
Tetrachloroethene
Concen: 4.086 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	23275		
166	128.0	102.9	154.3	
129	83.4	71.4	107.2	
131	86.3	68.1	102.1	





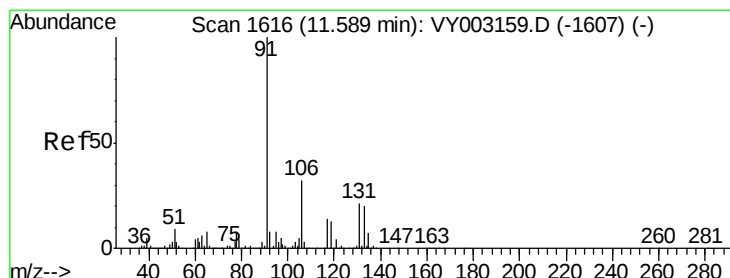
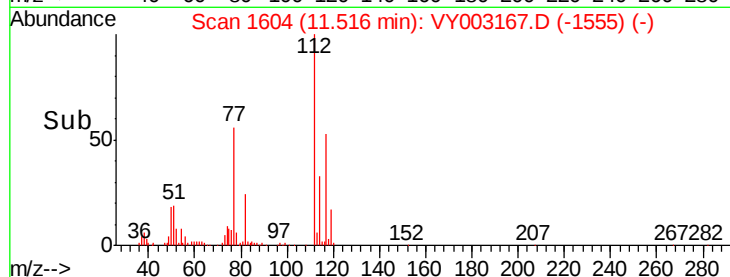
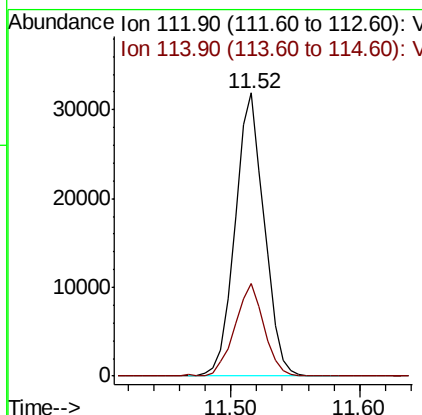
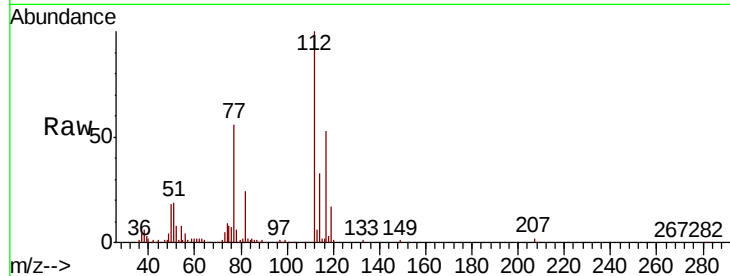
#65
Chlorobenzene
Concen: 4.049 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.7	37.1

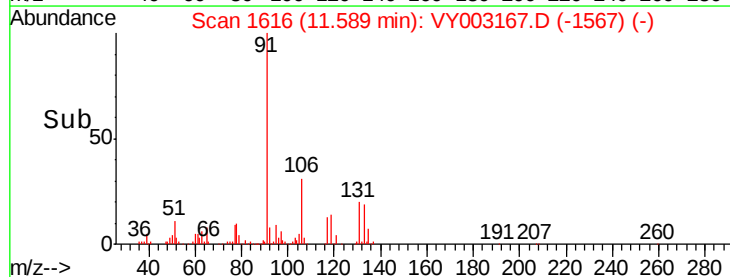
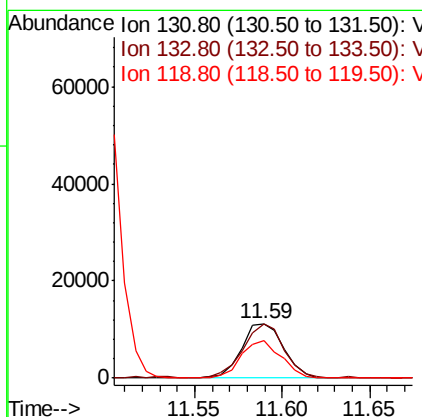
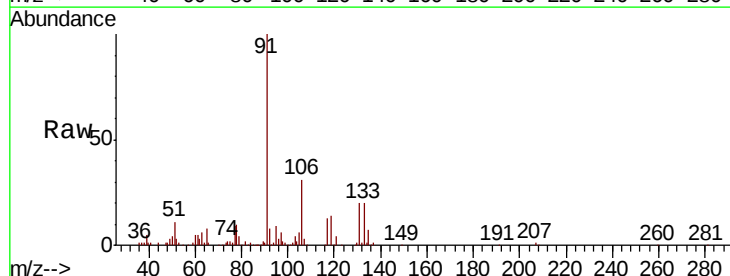
Manual Integrations
APPROVED

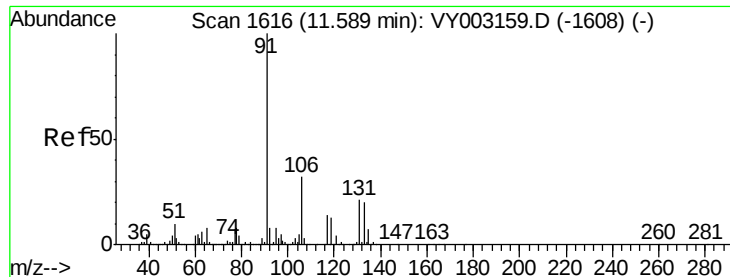
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 3.917 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.9	48.0	144.0
119	66.1	32.4	97.0





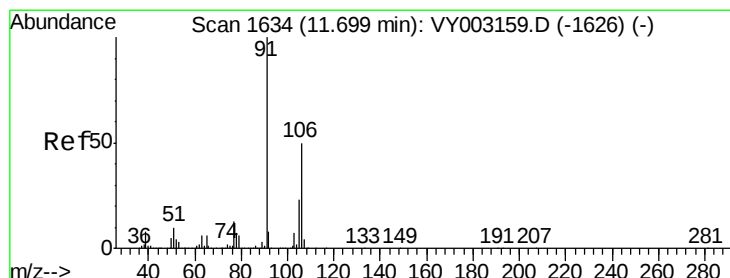
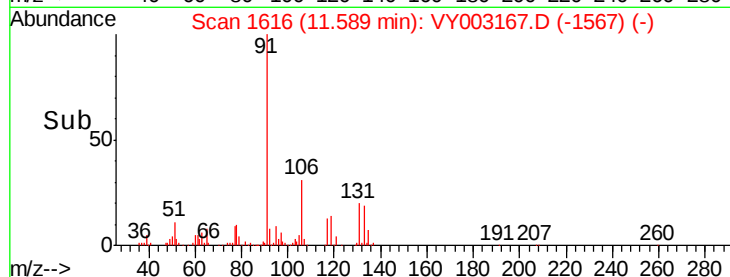
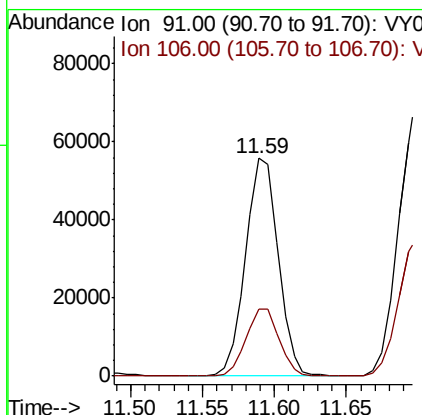
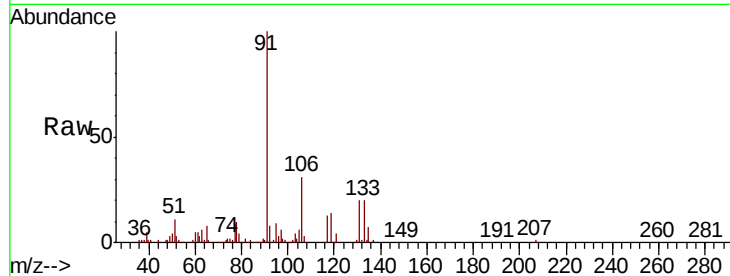
#67
Ethyl Benzene
Concen: 3.991 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.5	38.3

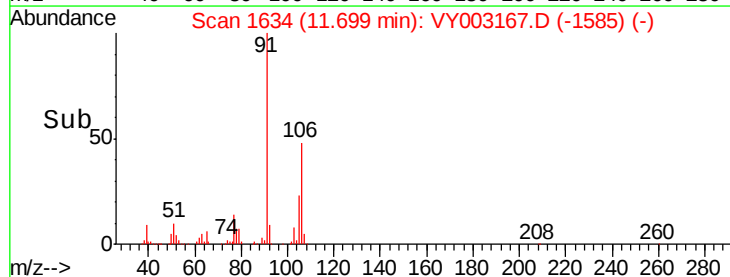
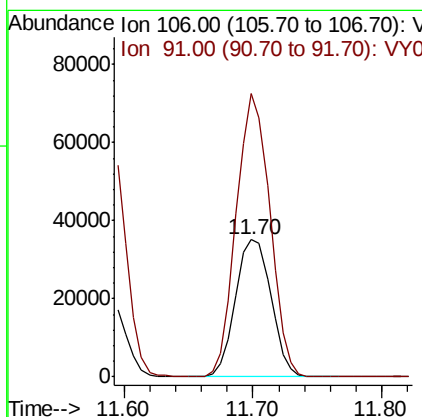
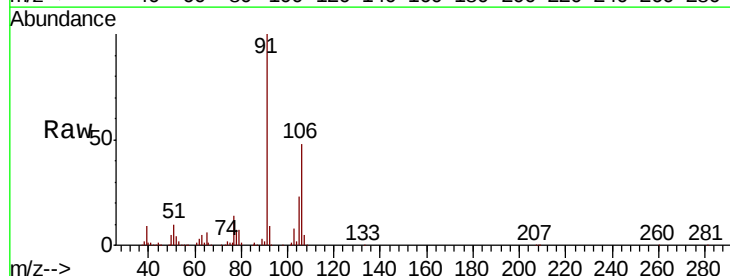
Manual Integrations
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MMDadoda
7/13/2020 10:47:53 AM



#68
m/p-Xylenes
Concen: 8.099 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.1	159.0	238.6





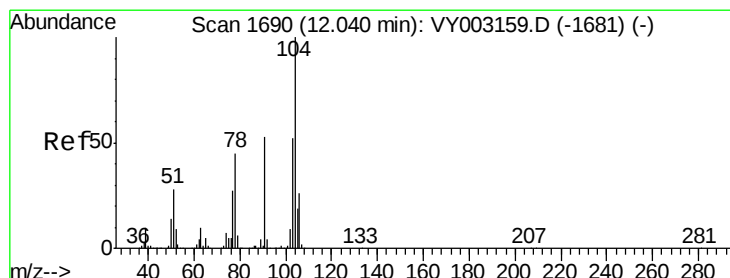
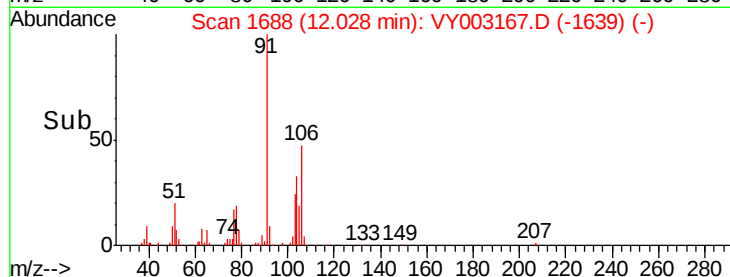
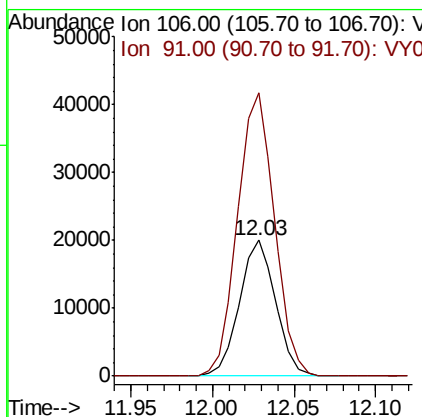
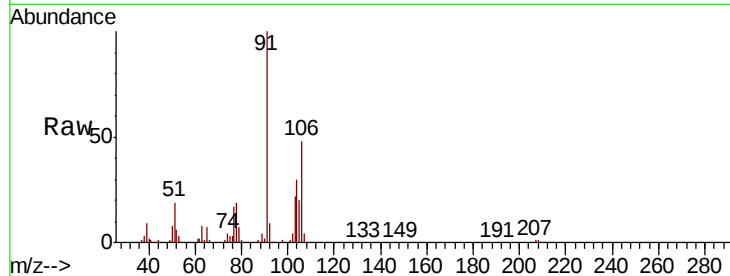
#69
o-Xylene
Concen: 3.968 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion:106 Resp: 30905
Ion Ratio Lower Upper
106 100
91 212.5 105.1 315.1

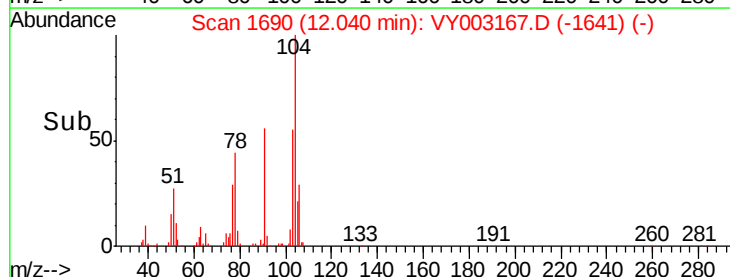
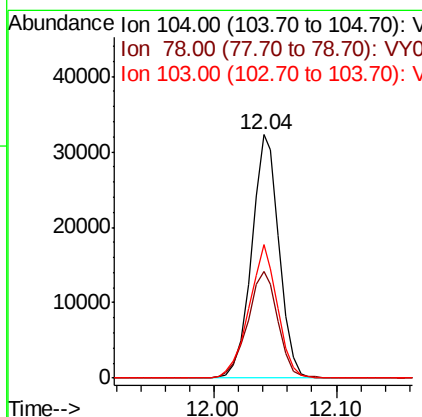
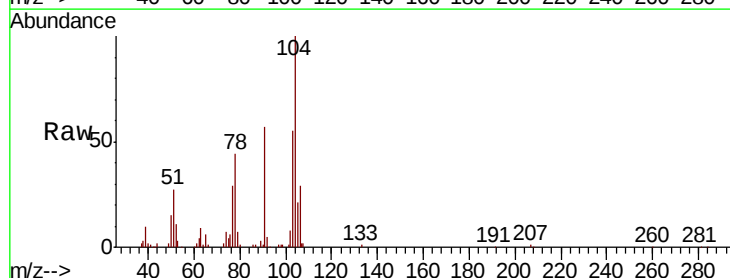
Manual Integrations
APPROVED

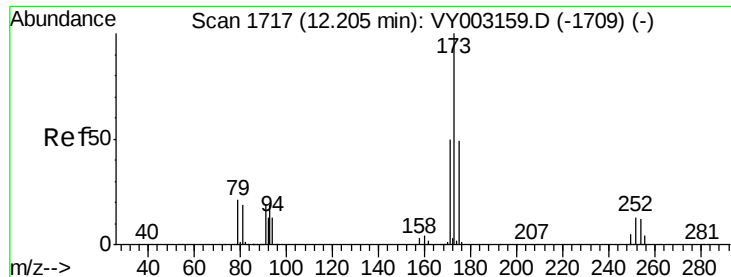
MMDadoda
7/13/2020 10:47:53 AM



#70
Styrene
Concen: 3.772 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion:104 Resp: 50260
Ion Ratio Lower Upper
104 100
78 48.8 38.5 57.7
103 57.3 43.9 65.9





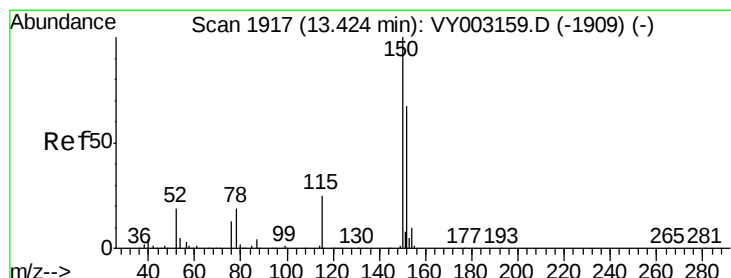
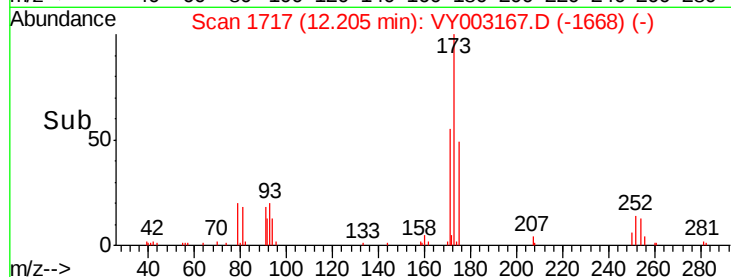
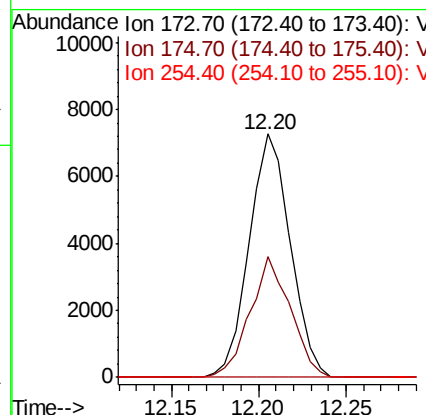
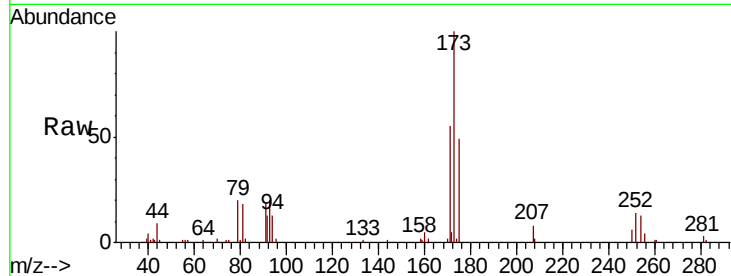
#71
Bromoform
Concen: 3.787 ug/l
RT: 12.20 min Scan# 1717
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	73.0
254	0.0	0.2	0.2

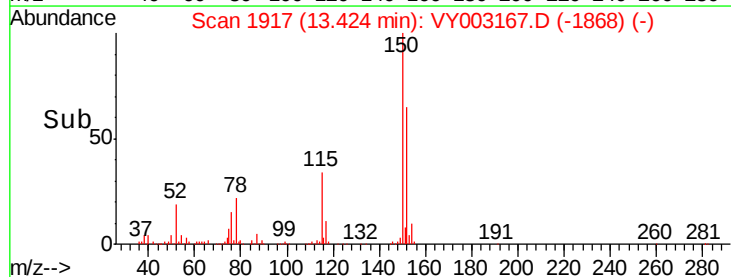
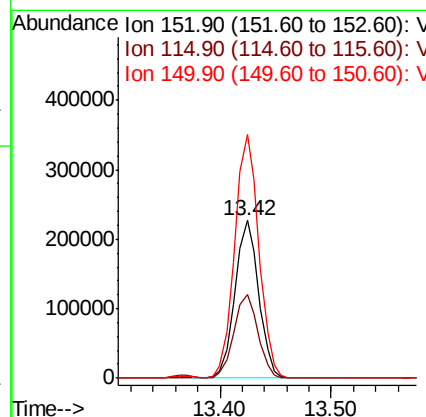
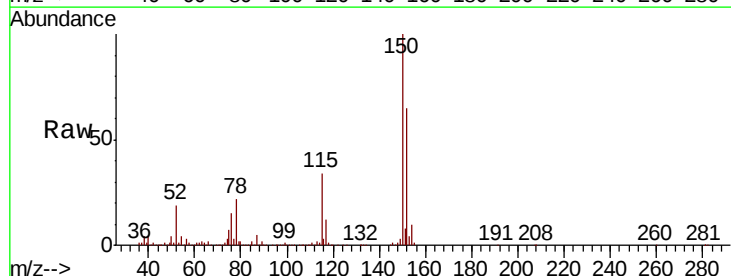
Manual Integrations
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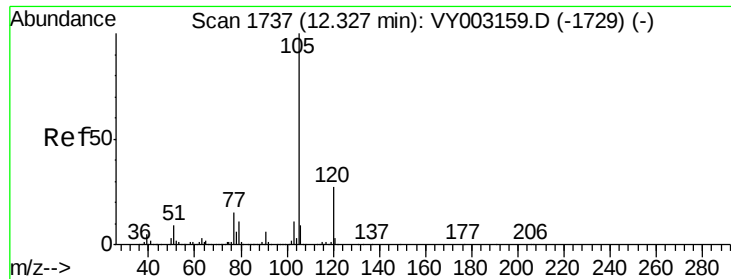
MMDadoda
7/13/2020 10:47:53 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	26.9	80.7
150	157.8	0.0	338.0





#73

Isopropylbenzene

Concen: 3.911 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 105 Resp: 82985

Ion Ratio Lower Upper

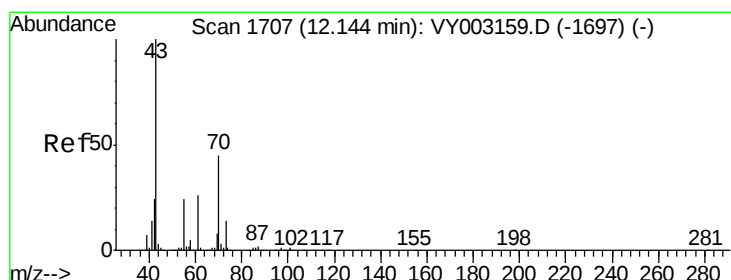
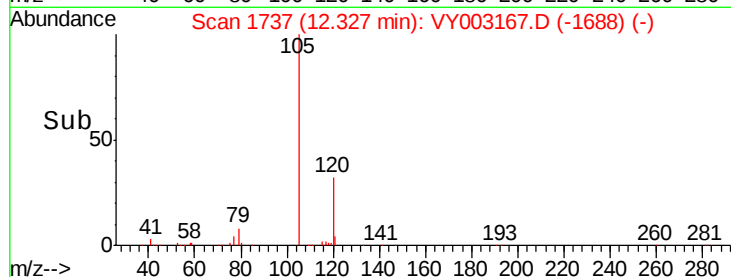
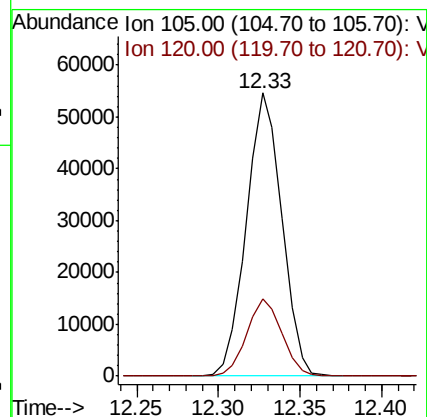
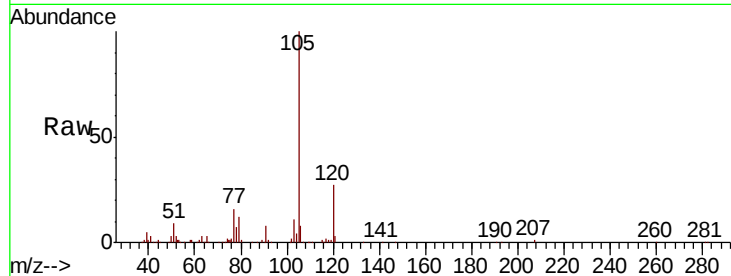
105 100

120 26.9 13.4 40.2

Manual Integrations
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MMDadoda

7/13/2020 10:47:53 AM



#74

N-ethyl acetate

Concen: 3.751 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion: 43 Resp: 22335

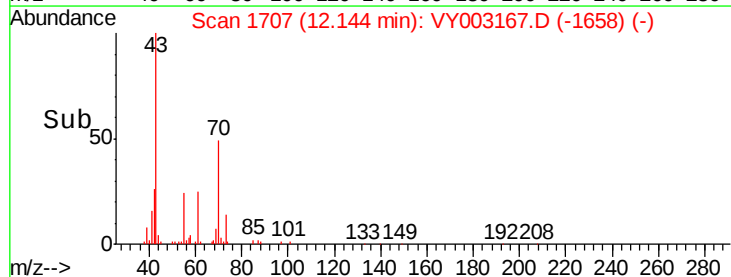
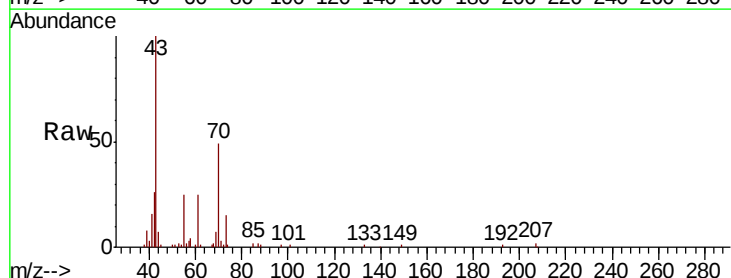
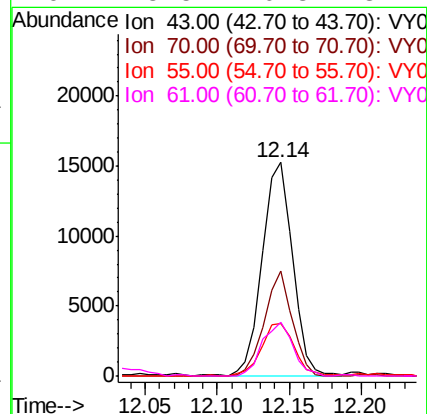
Ion Ratio Lower Upper

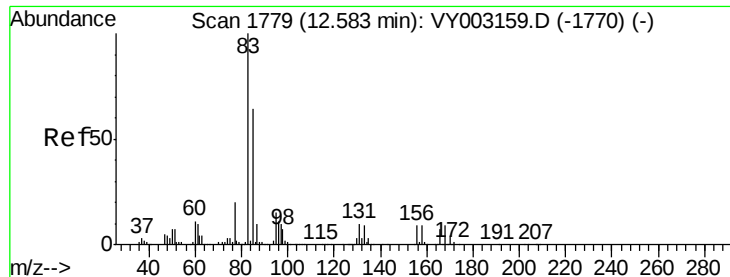
43 100

70 44.3 35.6 53.4

55 26.5 19.4 29.2

61 25.5 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 3.892 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

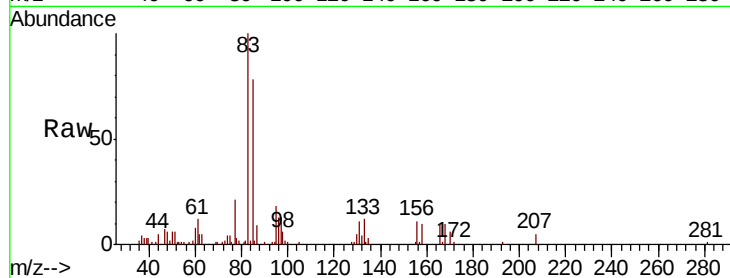
ClientSampleId :

MDL-SOIL-03-QT3-2020

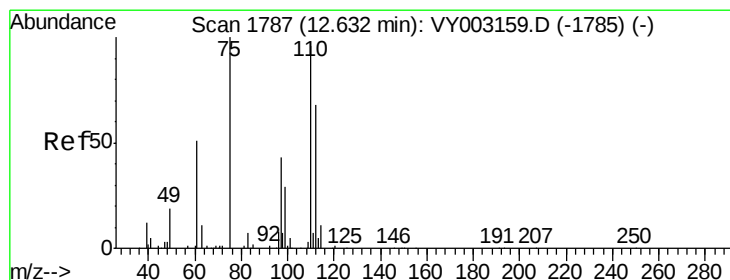
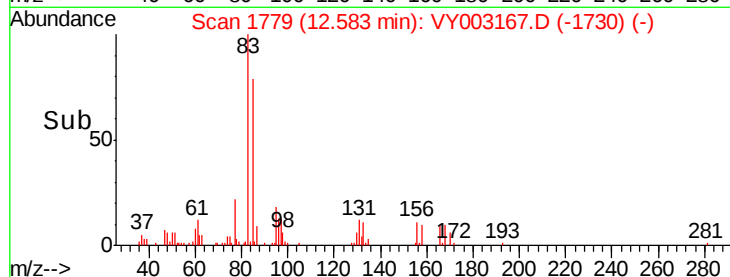
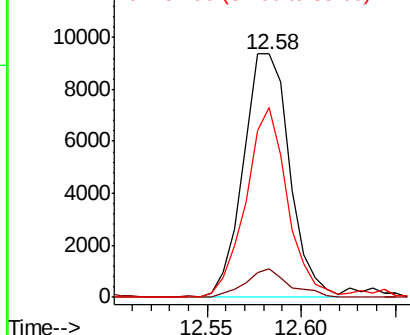
Tot Ion:	83	Resp:	15950
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.2	15.6
85	70.0	32.0	96.0

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Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 130.80 (130.50 to 131.50): VY0
Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 4.994 ug/l m

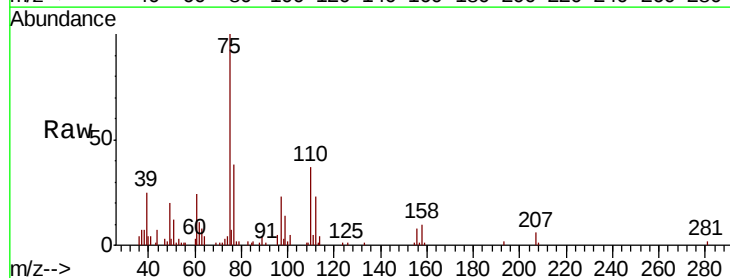
RT: 12.63 min Scan# 1787

Delta R.T. 0.00 min

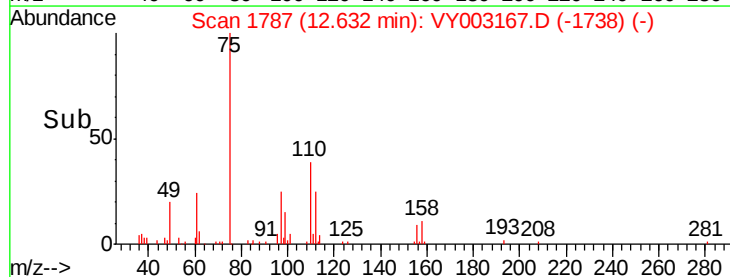
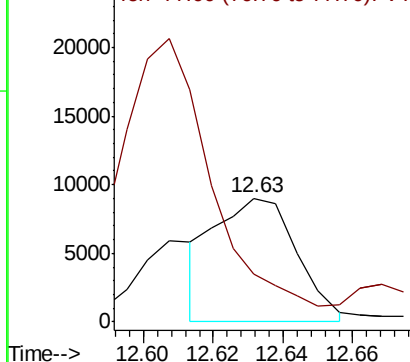
Lab File: VY003167.D

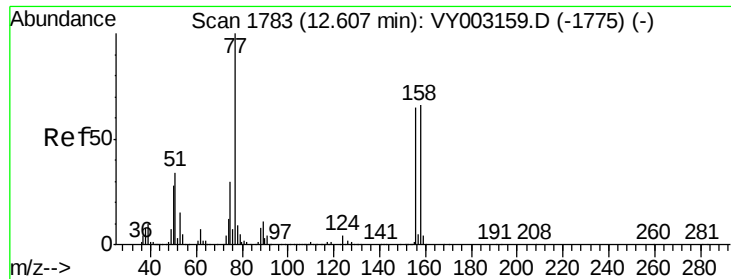
Acq: 10 Jul 2020 16:43

Tgt Ion:	75	Resp:	14718
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 77.00 (76.70 to 77.70): VY0





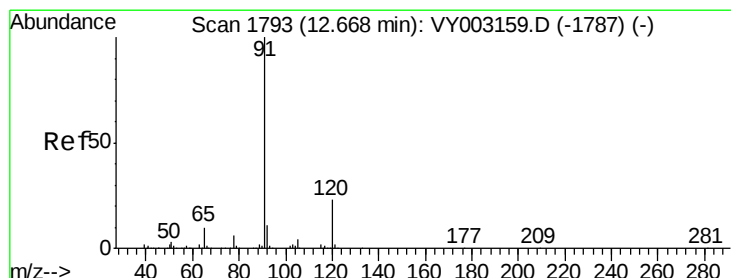
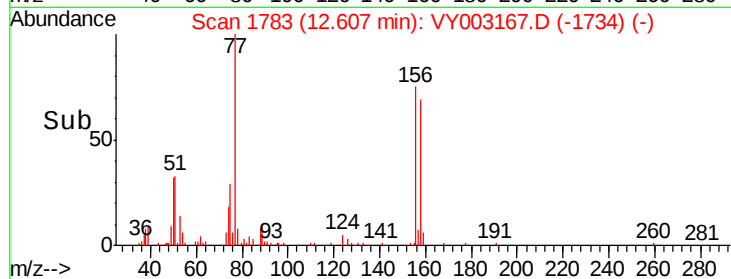
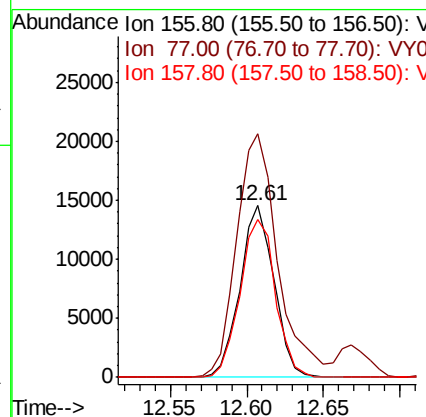
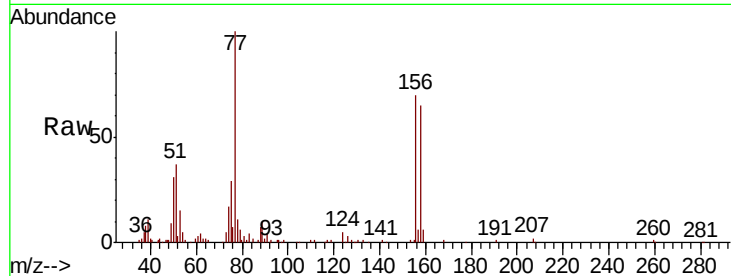
#77
Bromobenzene
Concen: 4.148 ug/l
RT: 12.61 min Scan# 1783
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
156	100		
77	171.2	86.6	259.7
158	95.9	49.4	148.0

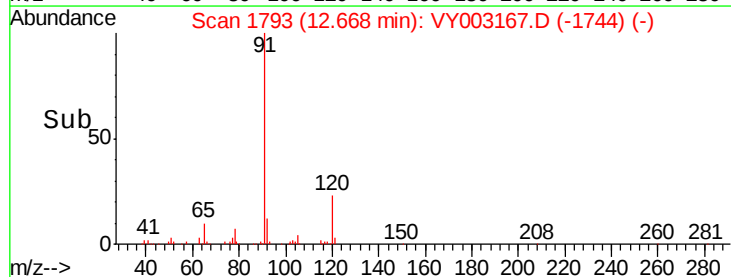
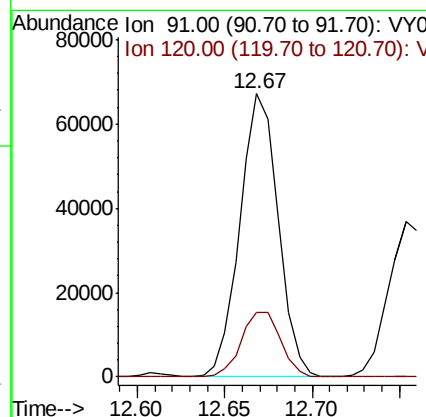
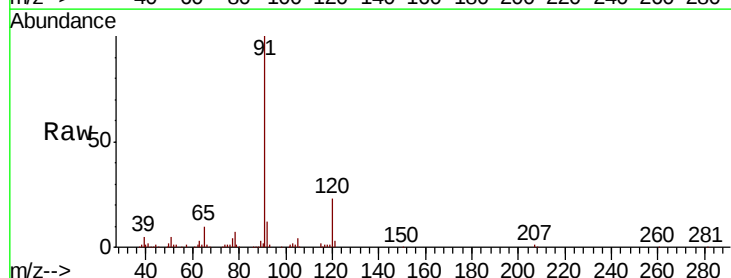
Manual Integrations
APPROVED

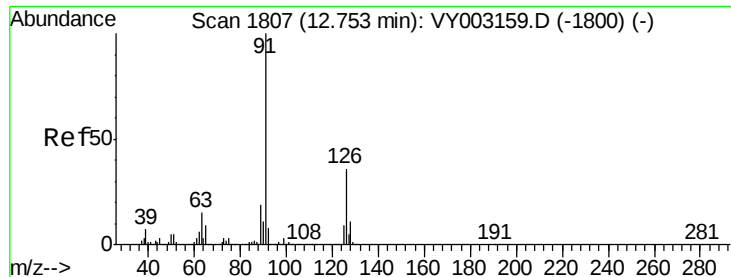
MMDadoda
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#78
n-propylbenzene
Concen: 4.093 ug/l
RT: 12.67 min Scan# 1793
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.7	35.1





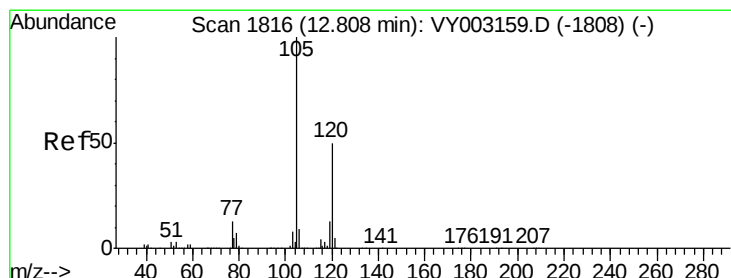
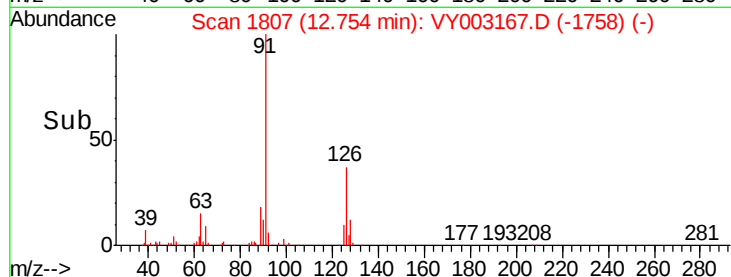
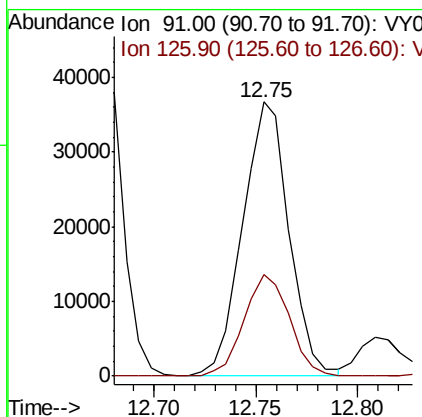
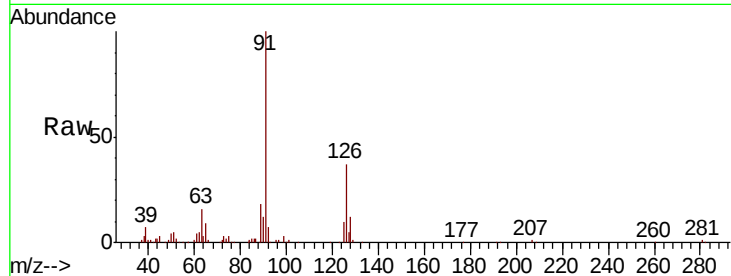
#79
2-Chlorotoluene
Concen: 4.151 ug/l
RT: 12.75 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion: 91 Resp: 57929
Ion Ratio Lower Upper
91 100
126 36.2 17.6 52.9

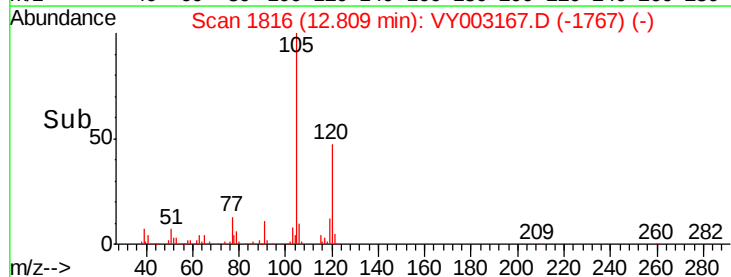
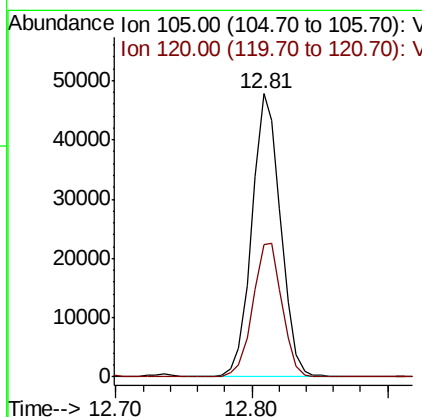
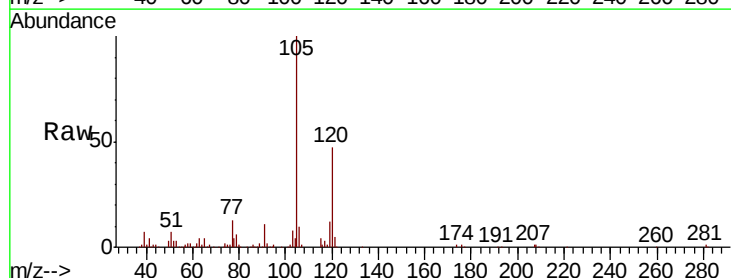
Manual Integrations
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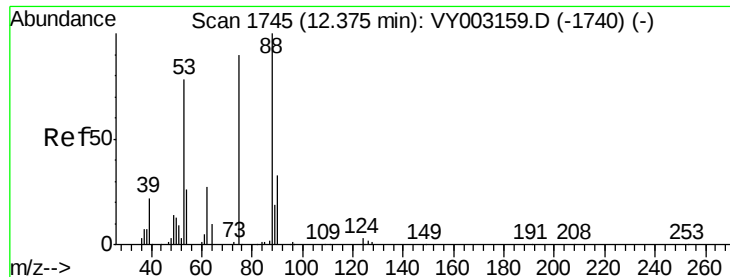
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 3.977 ug/l
RT: 12.81 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion: 105 Resp: 70329
Ion Ratio Lower Upper
105 100
120 48.4 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 3.677 ug/l

RT: 12.38 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

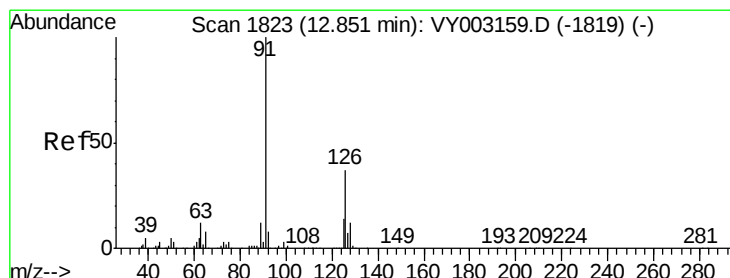
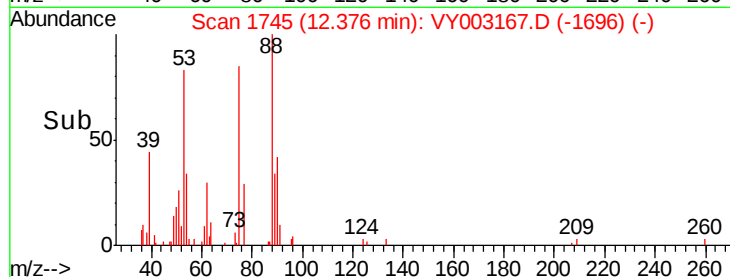
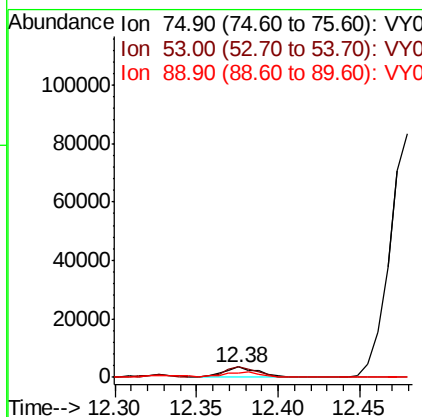
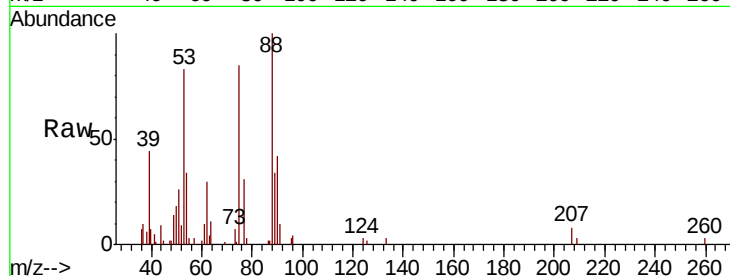
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	75	Resp:	5569
Ion	Ratio	Lower	Upper
75	100		
53	92.5	72.0	108.0
89	49.2	37.3	55.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 4.130 ug/l

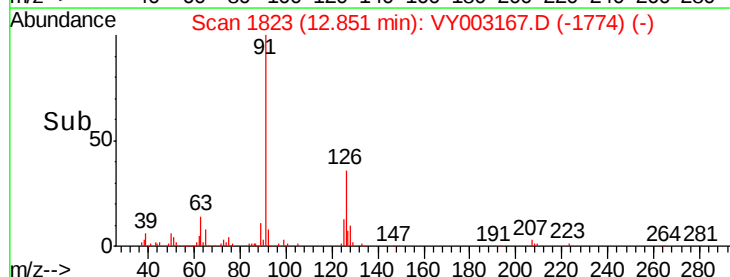
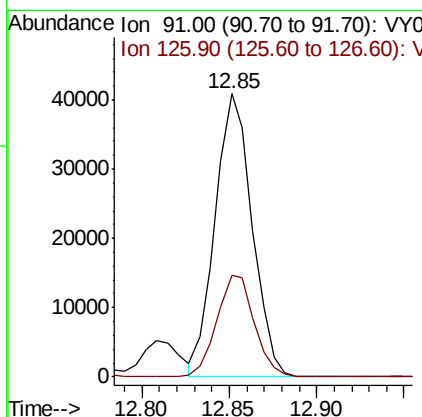
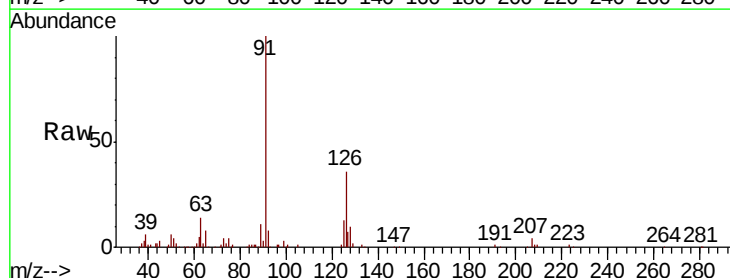
RT: 12.85 min Scan# 1823

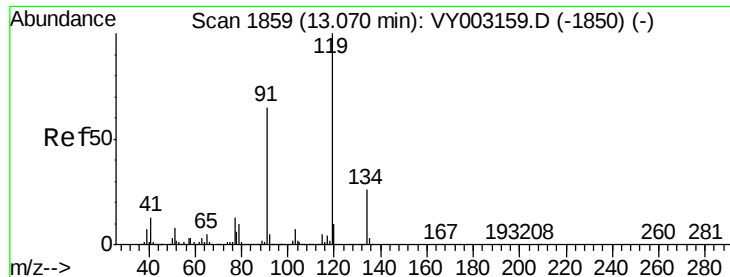
Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion:	91	Resp:	60154
Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.9	53.7





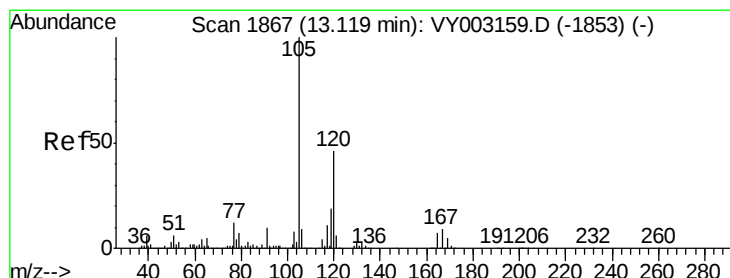
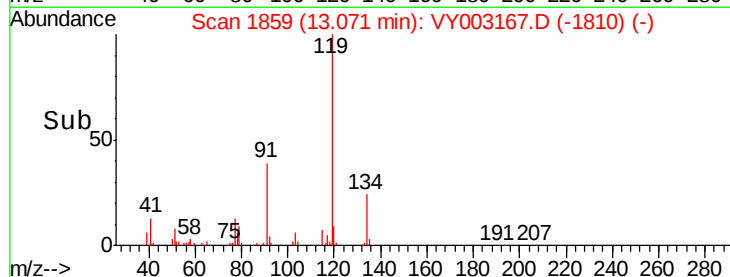
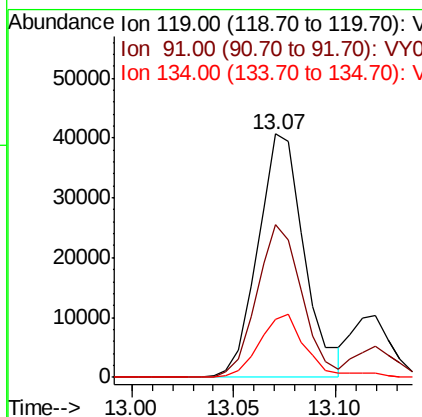
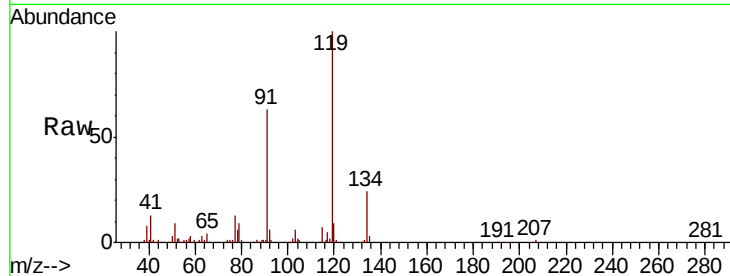
#83
tert-Butylbenzene
Concen: 4.120 ug/l
RT: 13.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.0	30.8	92.4
134	26.4	13.2	39.6

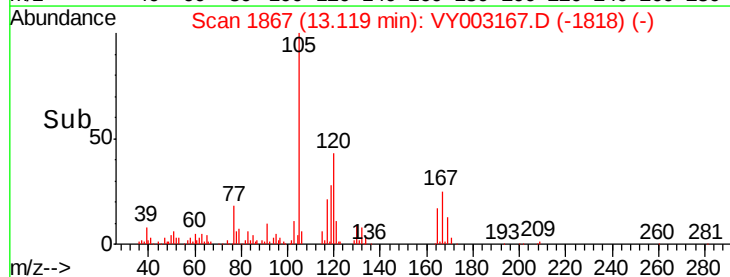
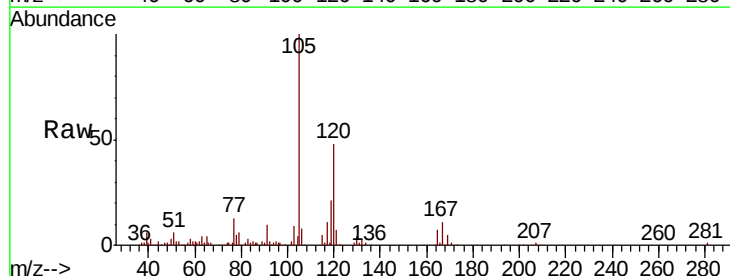
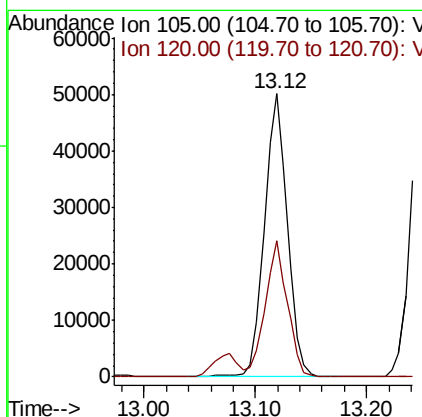
Manual Integrations
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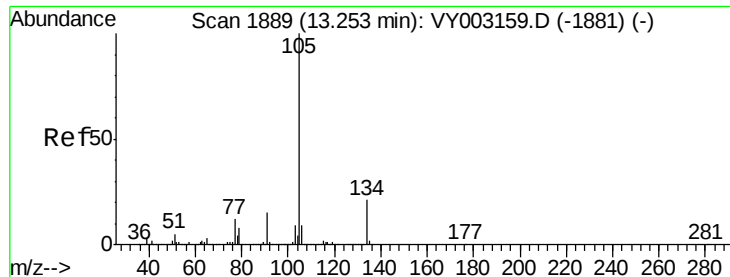
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#84
1,2,4-Trimethylbenzene
Concen: 4.059 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	22.5	67.5





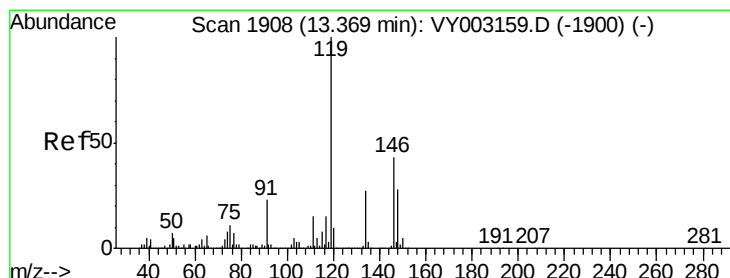
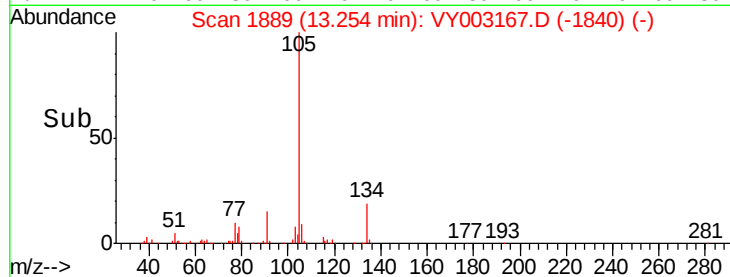
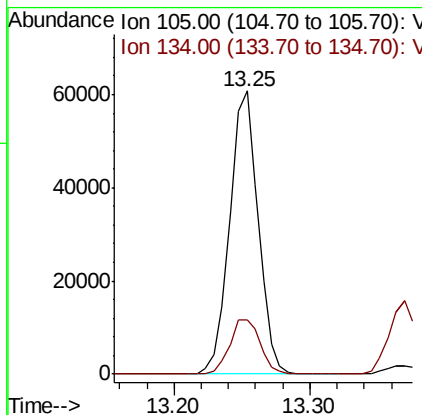
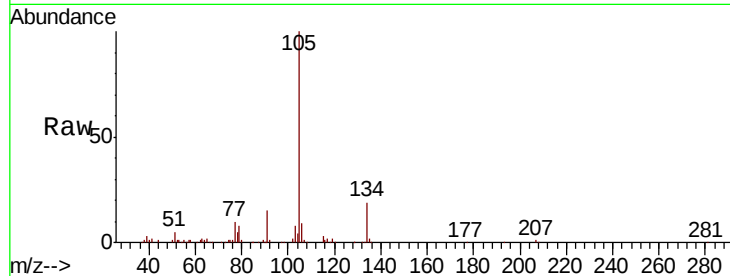
#85
 sec-Butylbenzene
 Concen: 4.120 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.4	31.4

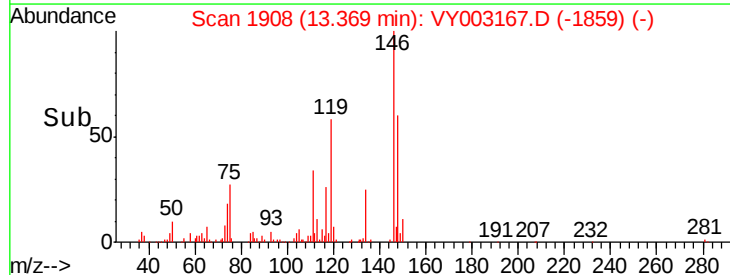
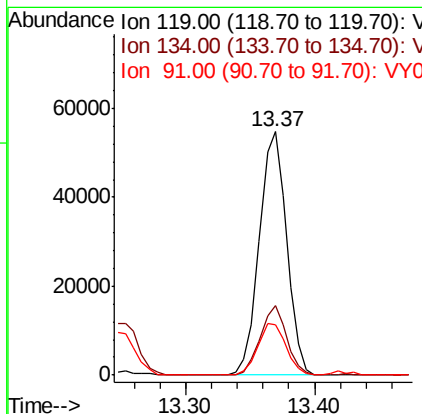
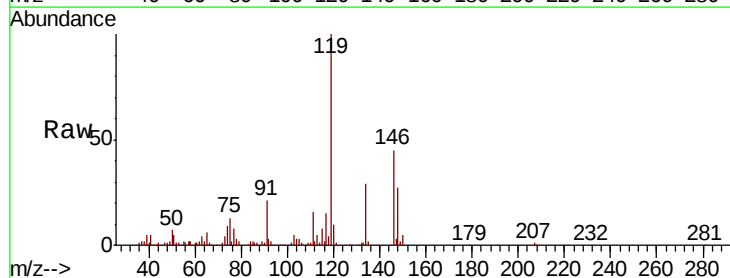
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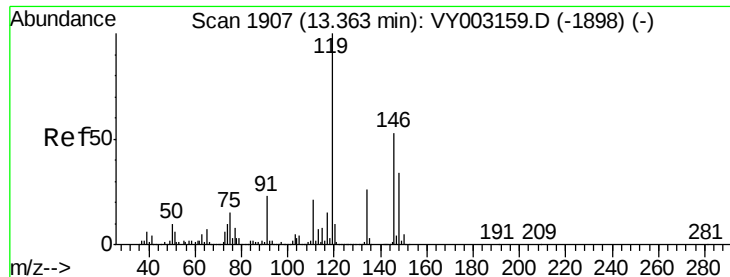
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#86
 p-Isopropyltoluene
 Concen: 4.014 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.00 min
 Lab File: VY003167.D
 Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.9	13.4	40.2
91	21.9	11.2	33.6





#87

1,3-Dichlorobenzene

Concen: 4.113 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

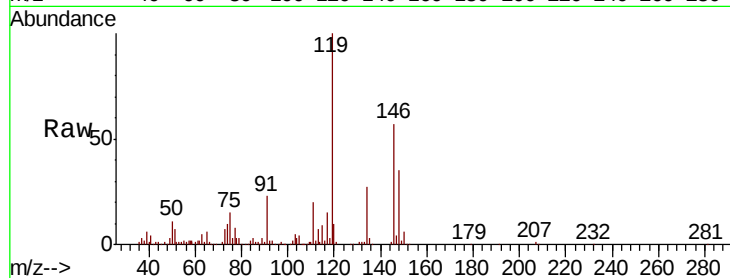
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.8	56.3
148	64.5	32.3	96.9

Manual Integrations
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7/13/2020 10:47:53 AM

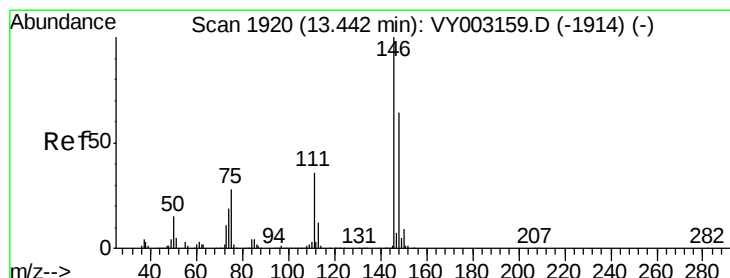
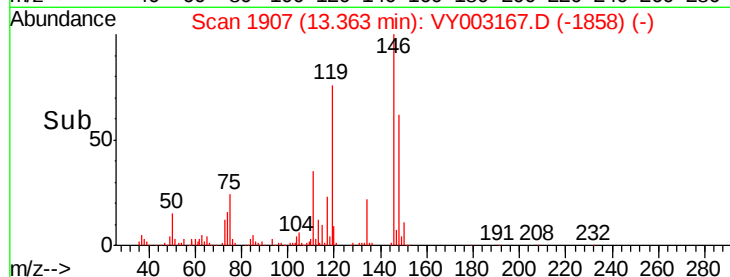
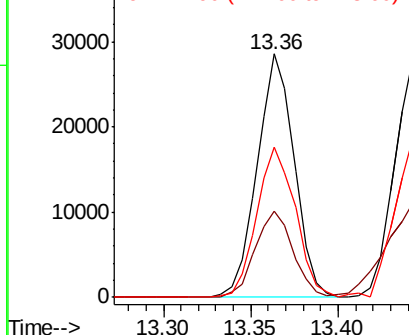


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 4.253 ug/l

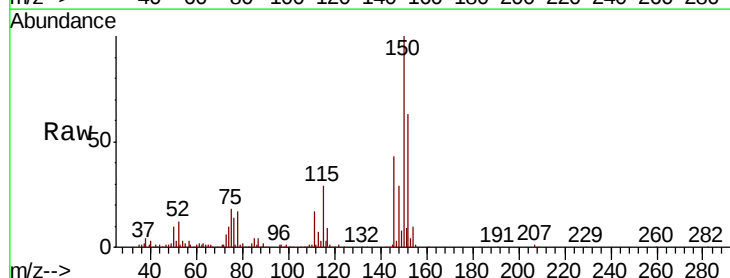
RT: 13.44 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.7	18.4	55.0
148	66.6	32.0	96.0

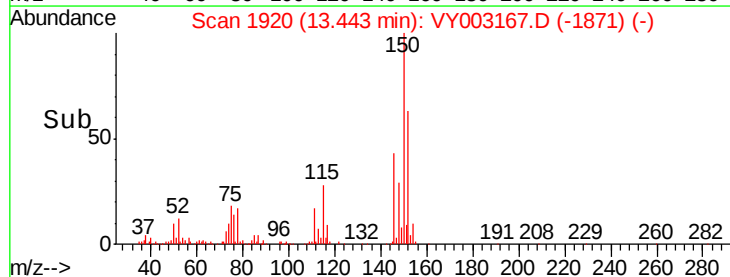
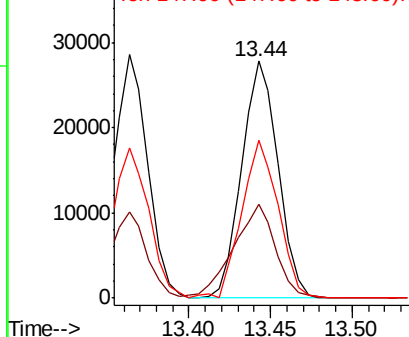


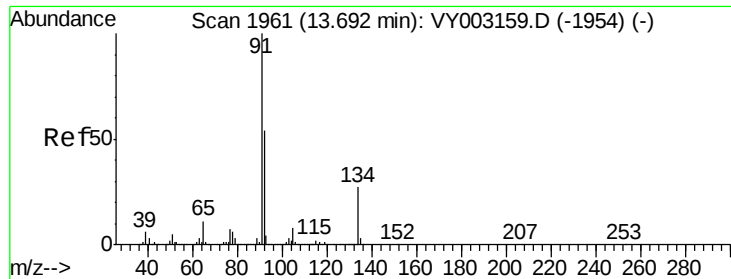
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





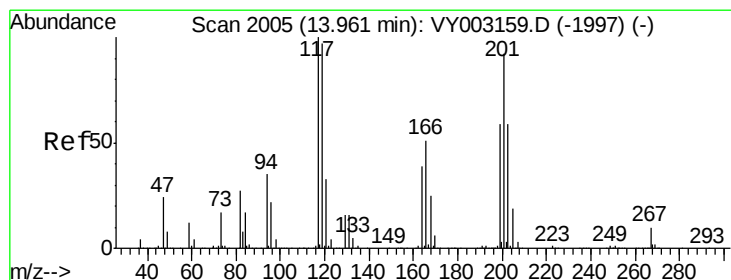
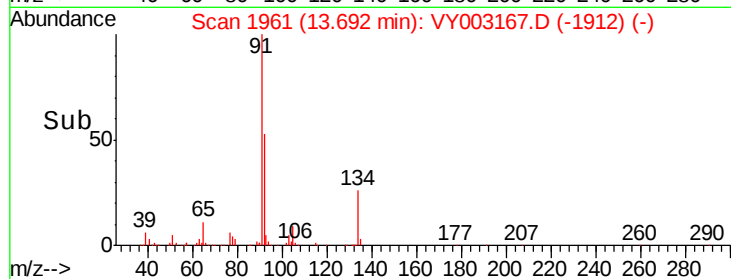
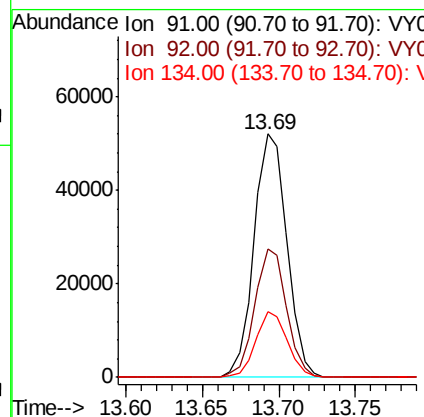
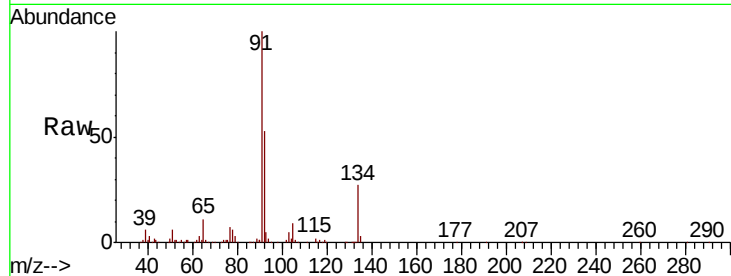
#89
n-Butylbenzene
Concen: 4.133 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.9	80.7
134	25.8	13.6	40.7

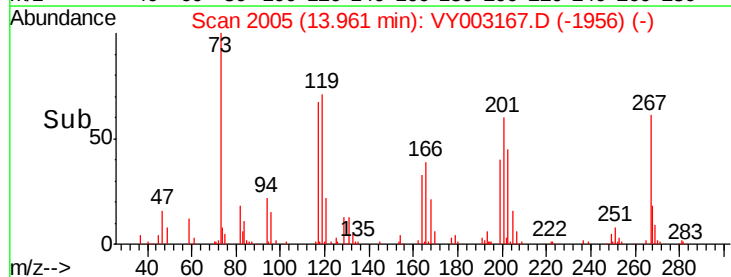
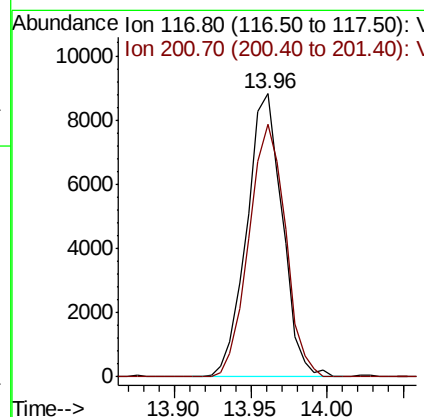
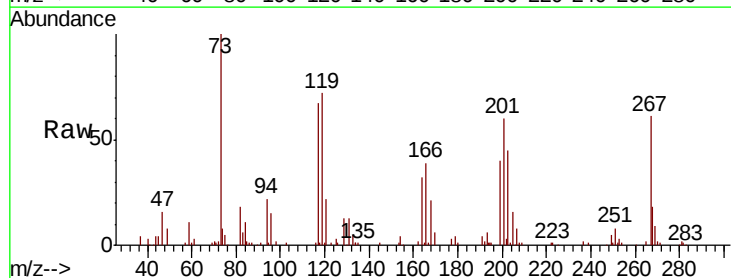
Manual Integrations
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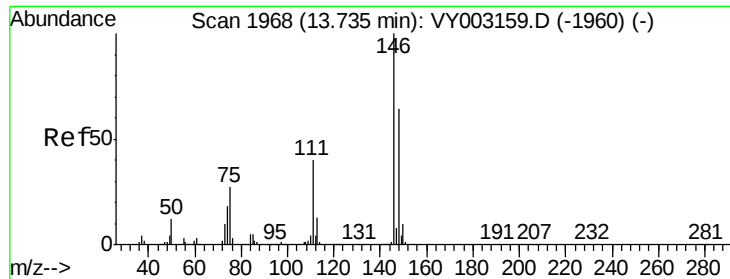
MMDadoda
7/13/2020 10:47:53 AM



#90
Hexachloroethane
Concen: 3.926 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.3	45.1	135.3





#91

1,2-Dichlorobenzene

Concen: 4.174 ug/l

RT: 13.74 min Scan# 1968

Delta R.T. 0.00 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Instrument :

MSVOA_Y

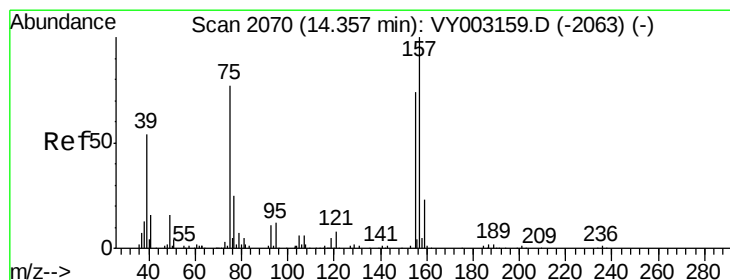
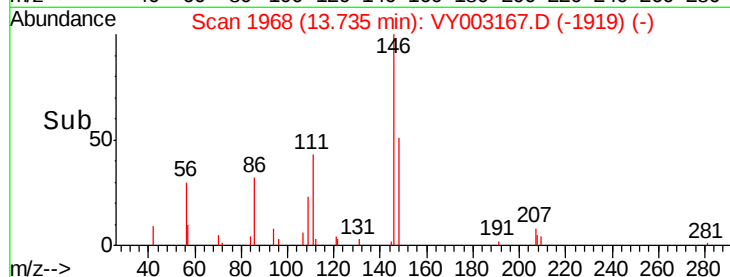
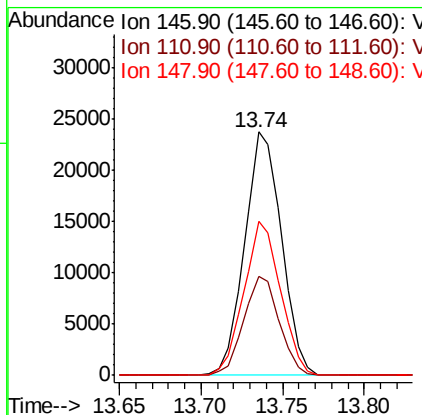
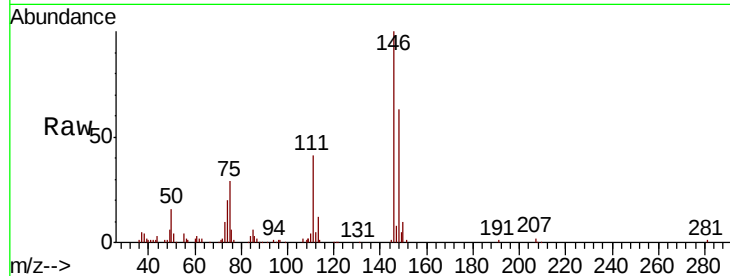
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	146	Resp:	37463
Ion Ratio	Lower	Upper	
146	100		
111	39.6	19.6	58.8
148	63.0	32.4	97.0

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#92

1,2-Dibromo-3-Chloropropane

Concen: 4.103 ug/l

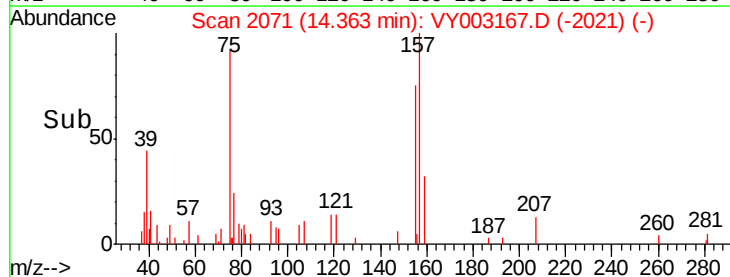
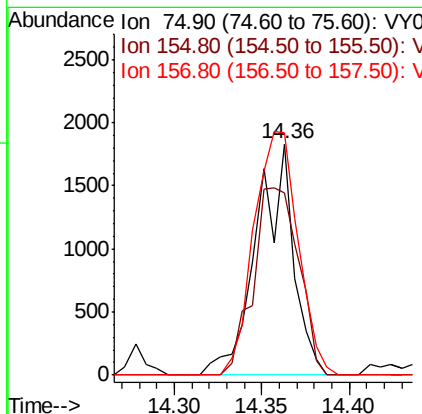
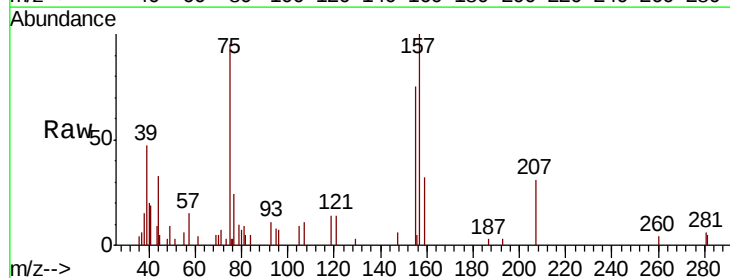
RT: 14.36 min Scan# 2071

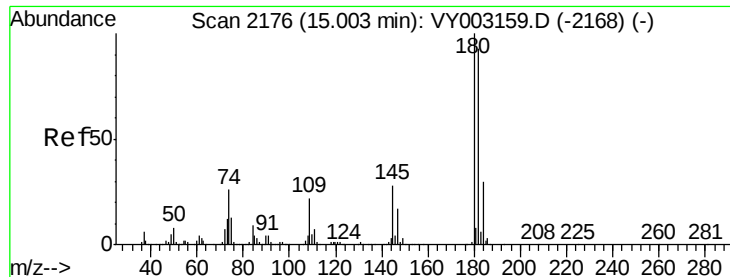
Delta R.T. 0.01 min

Lab File: VY003167.D

Acq: 10 Jul 2020 16:43

Tgt Ion:	75	Resp:	2726
Ion Ratio	Lower	Upper	
75	100		
155	98.9	48.1	144.3
157	125.2	61.9	185.6





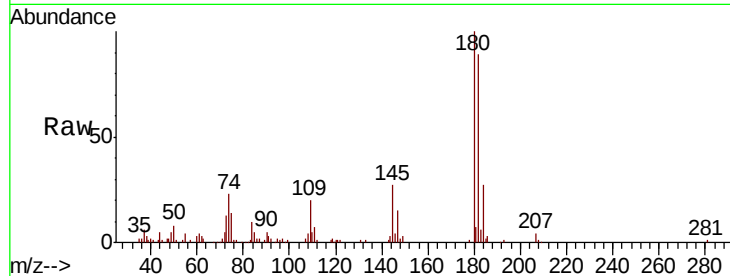
#93
1,2,4-Trichlorobenzene
Concen: 4.365 ug/l
RT: 15.00 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	27875		
182	92.6	47.3	142.0	
145	27.2	13.7	41.1	

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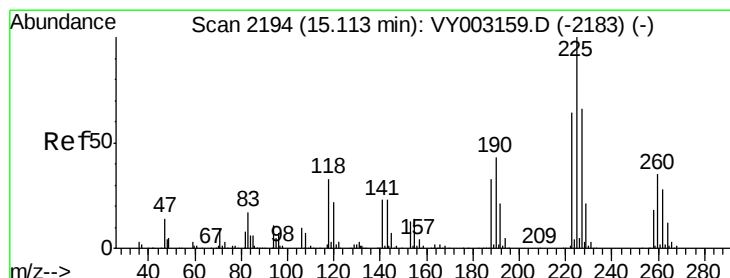
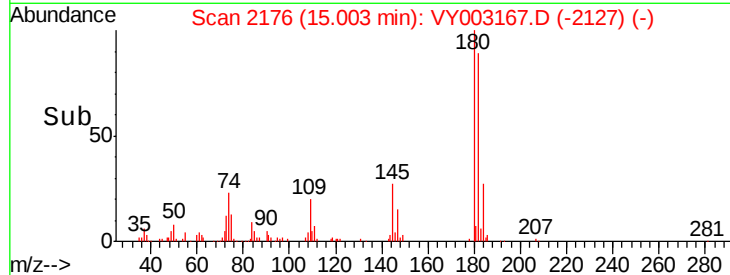
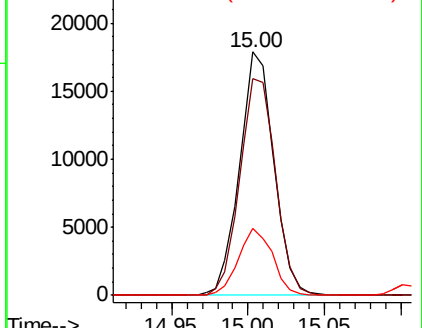


Abundance

Ion 179.80 (179.50 to 180.50): V

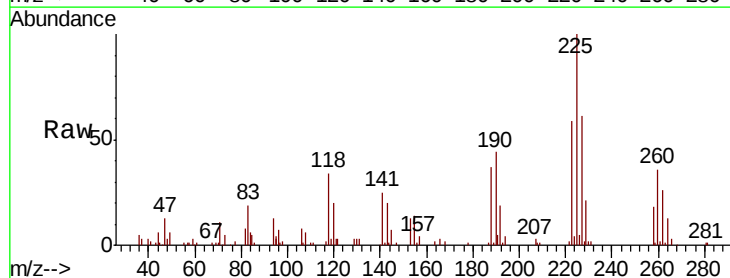
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 4.407 ug/l
RT: 15.11 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	19284		
223	62.8	31.6	94.7	
227	62.9	32.3	96.8	

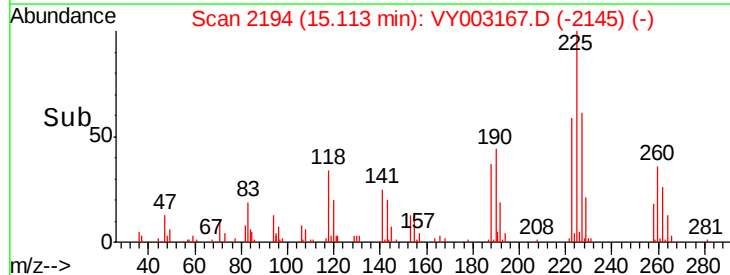
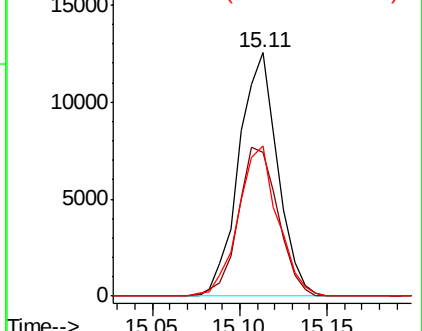


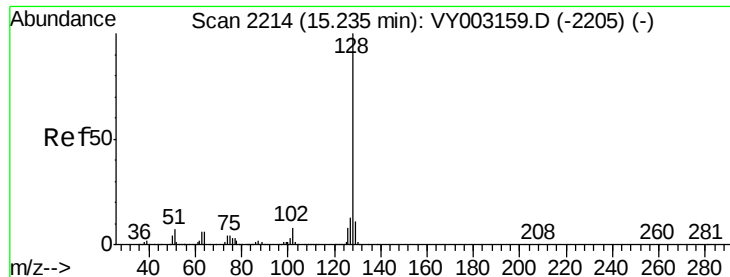
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





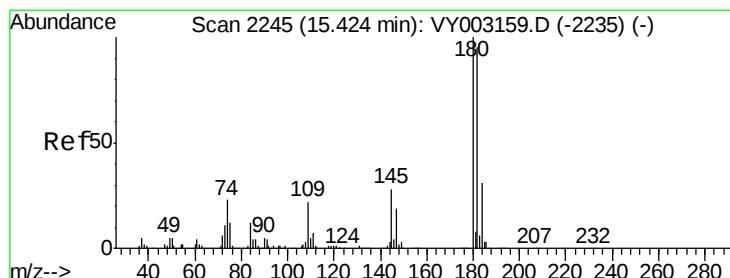
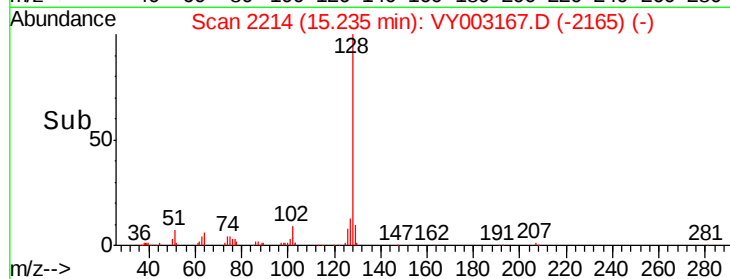
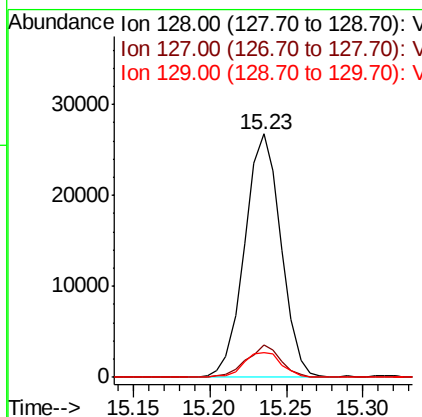
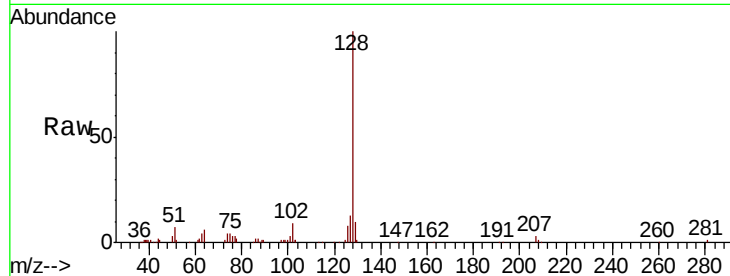
#95
Naphthalene
Concen: 4.173 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.9	16.3
129	10.7	9.0	13.6

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#96
1,2,3-Trichlorobenzene
Concen: 4.476 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VY003167.D
Acq: 10 Jul 2020 16:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.8	146.3
145	29.1	14.9	44.5

