

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071020\
 Data File : VY003166.D
 Acq On : 10 Jul 2020 16:20
 Operator : SY/MD
 Sample : L3216-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

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

Manual Integrations
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MMDadoda
 7/13/2020 10:47:51 AM

Quant Time: Jul 11 06:58:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 13:18:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	477466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	689483	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	632651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	337358	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	199658	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	7.72	113	195904	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
50) Toluene-d8	10.18	98	718693	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.48	95	256022	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	9806	2.865	ug/l	97
3) Chloromethane	2.12	50	13779	2.903	ug/l	100
4) Vinyl Chloride	2.26	62	13614	2.795	ug/l	95
5) Bromomethane	2.66	94	11042	3.052	ug/l	86
6) Chloroethane	2.80	64	8828	2.760	ug/l	96
7) Trichlorofluoromethane	3.13	101	20146	2.897	ug/l	97
8) Diethyl Ether	3.54	74	6724	2.885	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.91	101	12640	3.009	ug/l	96
10) Methyl Iodide	4.10	142	11779	2.581	ug/l	100
11) Tert butyl alcohol	4.96	59	7120	16.339	ug/l #	85
12) 1,1-Dichloroethene	3.87	96	11282	2.840	ug/l	88
13) Acrolein	3.74	56	5835	15.427	ug/l	85
14) Allyl chloride	4.49	41	14814	2.513	ug/l	93
15) Acrylonitrile	5.18	53	15243	13.615	ug/l #	89
16) Acetone	3.95	43	14661	16.287	ug/l #	85
17) Carbon Disulfide	4.21	76	32557	2.670	ug/l	99
18) Methyl Acetate	4.49	43	8166	3.267	ug/l	90
19) Methyl tert-butyl Ether	5.22	73	29182	2.621	ug/l	96
20) Methylene Chloride	4.72	84	41974	7.844	ug/l	96
21) trans-1,2-Dichloroethene	5.22	96	12985	2.889	ug/l	90
22) Diisopropyl ether	6.13	45	34756	2.656	ug/l #	95
23) Vinyl Acetate	6.07	43	105032	12.044	ug/l	98
24) 1,1-Dichloroethane	6.03	63	20175	2.661	ug/l	97
25) 2-Butanone	7.00	43	20054	13.568	ug/l	98
26) 2,2-Dichloropropane	6.99	77	17762	2.602	ug/l	95
27) cis-1,2-Dichloroethene	6.99	96	13543	2.737	ug/l	95
28) Bromochloromethane	7.34	49	8899	2.712	ug/l	99
29) Tetrahydrofuran	7.36	42	13194	13.288	ug/l	99
30) Chloroform	7.52	83	20869	2.673	ug/l	98
31) Cyclohexane	7.79	56	27700	3.779	ug/l #	66
32) 1,1,1-Trichloroethane	7.71	97	18868	2.684	ug/l	98
36) 1,1-Dichloropropene	7.93	75	16701	2.673	ug/l	99
37) Ethyl Acetate	7.09	43	9145	2.717	ug/l #	94
38) Carbon Tetrachloride	7.91	117	16914	2.622	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	21357	2.721	ug/l	99
40) Benzene	8.17	78	47807	2.778	ug/l #	88
41) Methacrylonitrile	7.33	41	6315m	3.116	ug/l	
42) 1,2-Dichloroethane	8.24	62	15182	2.866	ug/l	98
43) Isopropyl Acetate	8.28	43	16446	2.525	ug/l	97
44) Trichloroethene	8.94	130	14861	2.817	ug/l	84
45) 1,2-Dichloropropane	9.22	63	12219	2.744	ug/l	93
46) Dibromomethane	9.31	93	7023	2.701	ug/l	99
47) Bromodichloromethane	9.50	83	15892	2.570	ug/l	96
48) Methyl methacrylate	9.30	41	7659	2.630	ug/l	96
49) 1,4-Dioxane	9.30	88	1973	59.782	ug/l #	77
51) 4-Methyl-2-Pentanone	10.07	43	42702	12.612	ug/l	99
52) Toluene	10.25	92	29679	2.699	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	16855	2.630	ug/l	93
54) cis-1,3-Dichloropropene	9.92	75	18275	2.475	ug/l	92
55) 1,1,2-Trichloroethane	10.64	97	9462	2.568	ug/l	91
56) Ethyl methacrylate	10.51	69	11634	2.322	ug/l	96
57) 1,3-Dichloropropane	10.79	76	15950	2.553	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.78	63	31071	12.161	ug/l	96
59) 2-Hexanone	10.83	43	28149	11.910	ug/l	97
60) Dibromochloromethane	10.99	129	11422	2.464	ug/l	93
61) 1,2-Dibromoethane	11.09	107	9563	2.629	ug/l	96
64) Tetrachloroethene	10.72	164	16174	2.867	ug/l	93
65) Chlorobenzene	11.52	112	32216	2.643	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	11859	2.505	ug/l	96
67) Ethyl Benzene	11.59	91	58083	2.669	ug/l	100
68) m/p-Xylenes	11.70	106	43885	5.315	ug/l	100
69) o-Xylene	12.03	106	19564	2.536	ug/l	96
70) Styrene	12.05	104	32767	2.483	ug/l	98
71) Bromoform	12.20	173	8006	2.577	ug/l #	93
73) Isopropylbenzene	12.33	105	56202	2.614	ug/l	99
74) N-amyl acetate	12.14	43	14935	2.476	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.58	83	11204	2.698	ug/l	98
76) 1,2,3-Trichloropropane	12.63	75	8387m	2.809	ug/l	
77) Bromobenzene	12.61	156	14657	2.675	ug/l	99
78) n-propylbenzene	12.67	91	68283	2.694	ug/l	97
79) 2-Chlorotoluene	12.75	91	36946	2.613	ug/l	97
80) 1,3,5-Trimethylbenzene	12.81	105	46816	2.613	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	4014	2.616	ug/l	99
82) 4-Chlorotoluene	12.85	91	39792	2.696	ug/l	98
83) tert-Butylbenzene	13.07	119	42436	2.684	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	47821	2.652	ug/l	95
85) sec-Butylbenzene	13.25	105	58104	2.674	ug/l	98
86) p-Isopropyltoluene	13.37	119	54868	2.704	ug/l	98
87) 1,3-Dichlorobenzene	13.36	146	29541	2.851	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	28846	2.811	ug/l	85
89) n-Butylbenzene	13.69	91	53052	2.780	ug/l	99
90) Hexachloroethane	13.95	117	9831	2.661	ug/l	98
91) 1,2-Dichlorobenzene	13.73	146	26313	2.893	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	2322	3.449	ug/l	88

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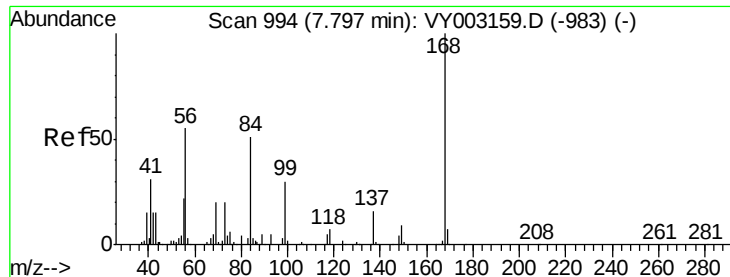
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	22044	3.407	ug/l	98
94) Hexachlorobutadiene	15.11	225	13589	3.065	ug/l	98
95) Naphthalene	15.23	128	35034	3.277	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	18226	3.564	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: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:168 Resp: 477466

Ion Ratio Lower Upper

168 100

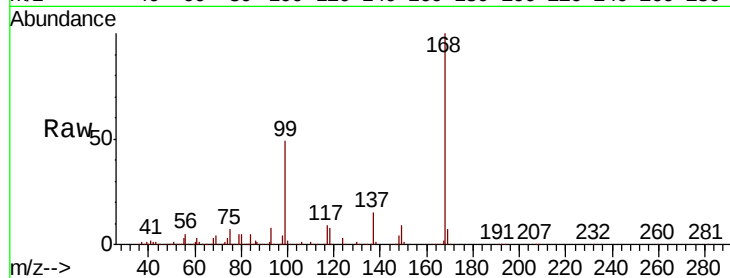
99 48.6 37.3 55.9

Manual Integrations

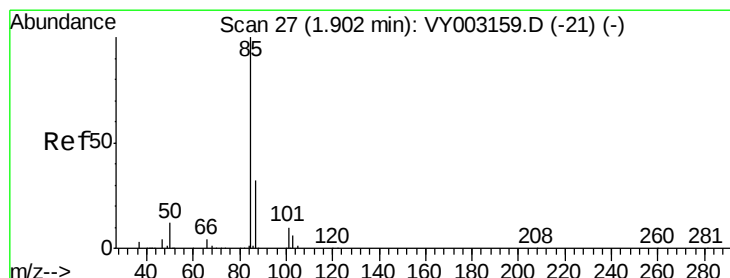
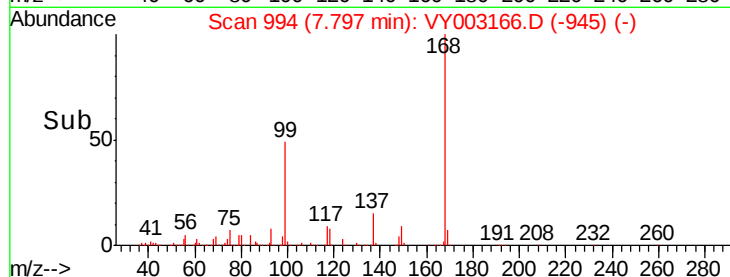
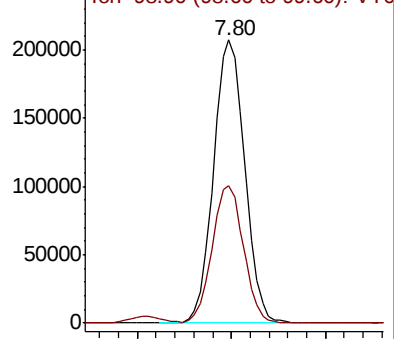
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7/13/2020 10:47:51 AM



Abundance Ion 167.90 (167.60 to 168.60): VY003159.D (-983) (-)



#2

Dichlorodifluoromethane

Concen: 2.865 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY003166.D

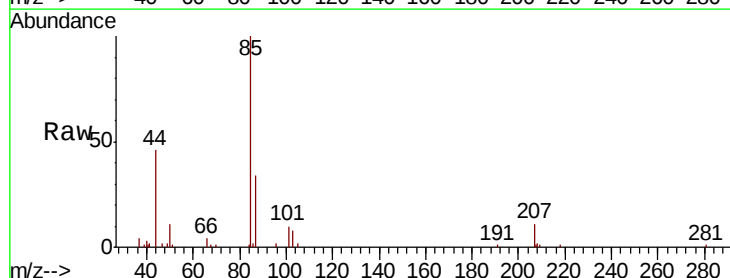
Acq: 10 Jul 2020 16:20

Tgt Ion: 85 Resp: 9806

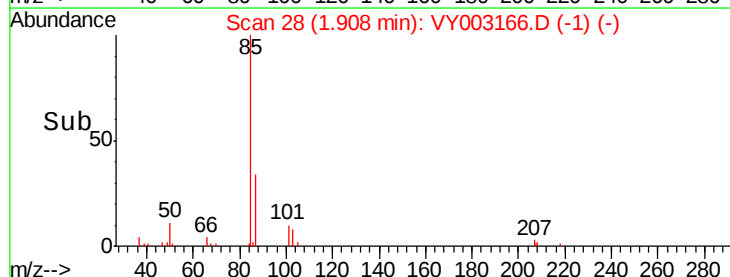
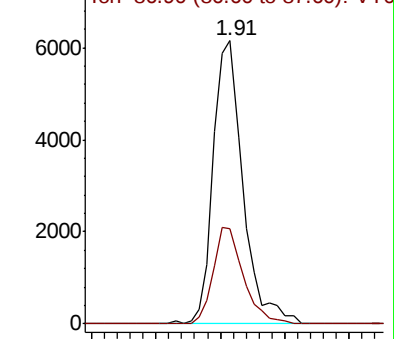
Ion Ratio Lower Upper

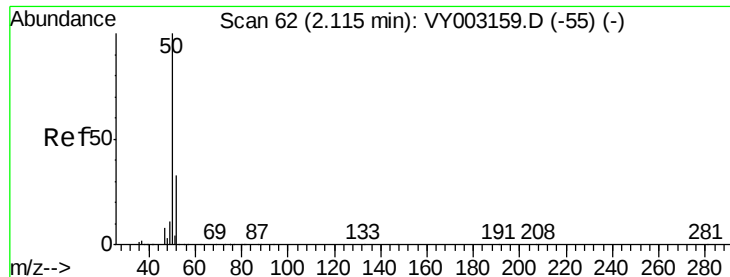
85 100

87 33.7 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VY003159.D (-21) (-)





#3

Chloromethane

Concen: 2.903 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 50 Resp: 13779

Ion Ratio Lower Upper

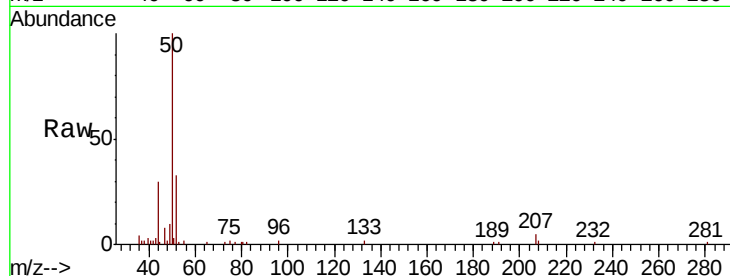
50 100

52 33.0 26.6 39.8

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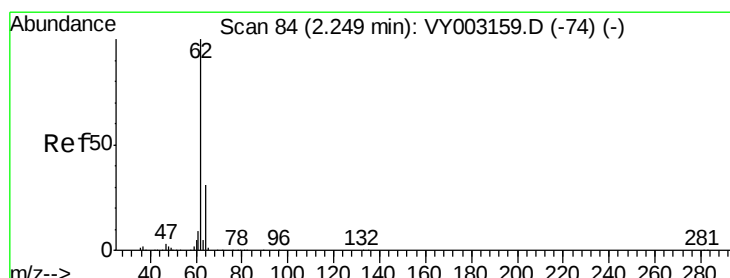
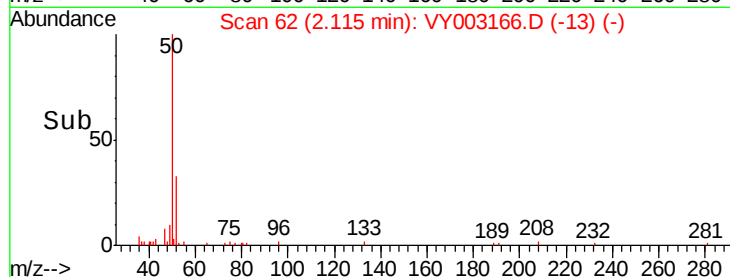
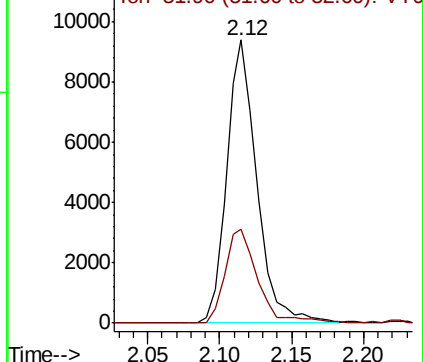
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Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 2.795 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY003166.D

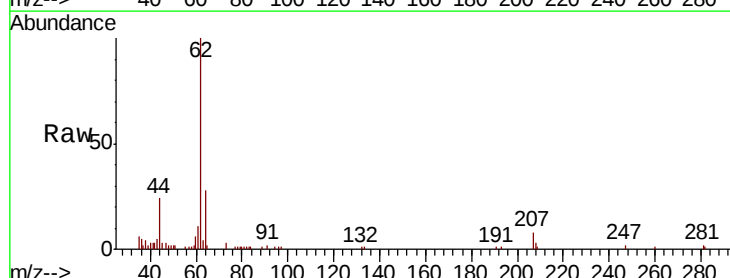
Acq: 10 Jul 2020 16:20

Tgt Ion: 62 Resp: 13614

Ion Ratio Lower Upper

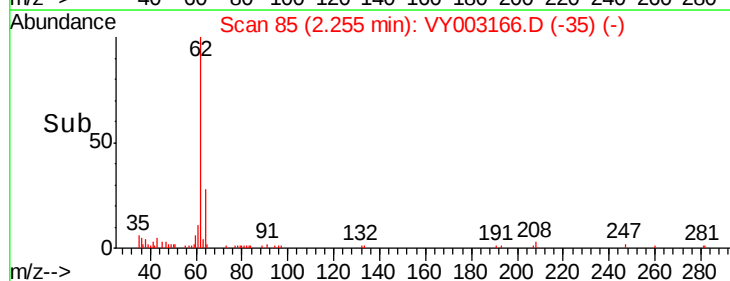
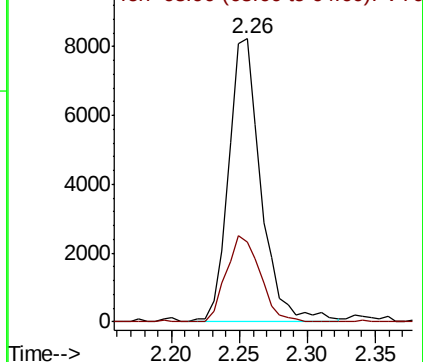
62 100

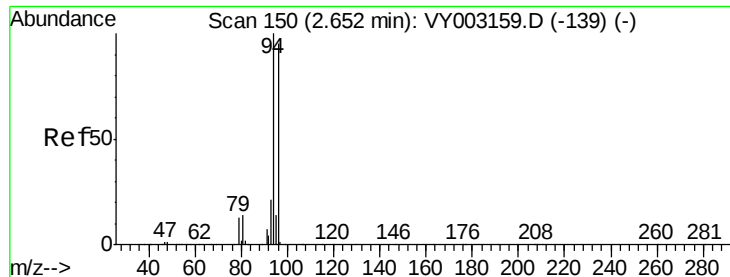
64 28.0 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 3.052 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 94 Resp: 11042

Ion Ratio Lower Upper

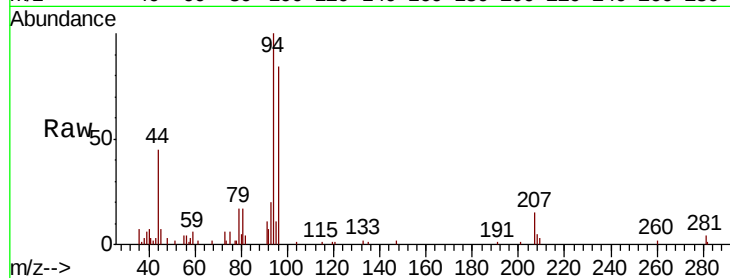
94 100

96 81.0 76.0 114.0

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

Ion 95.90 (95.60 to 96.60): VY0

2.66

6000

5000

4000

3000

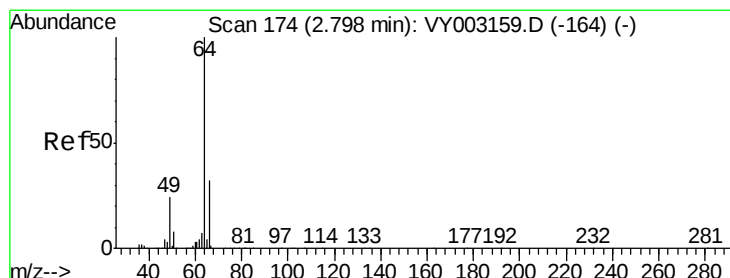
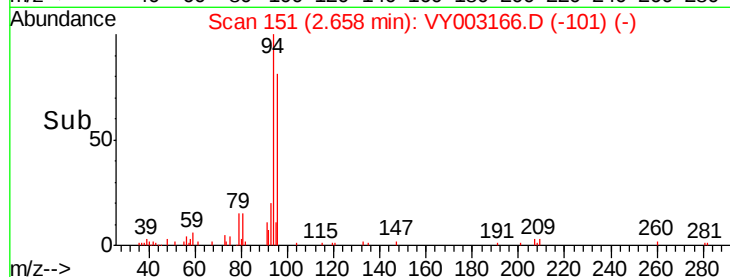
2000

1000

0

Time-->

2.55 2.60 2.65 2.70 2.75



#6

Chloroethane

Concen: 2.760 ug/l

RT: 2.80 min Scan# 174

Delta R.T. -0.00 min

Lab File: VY003166.D

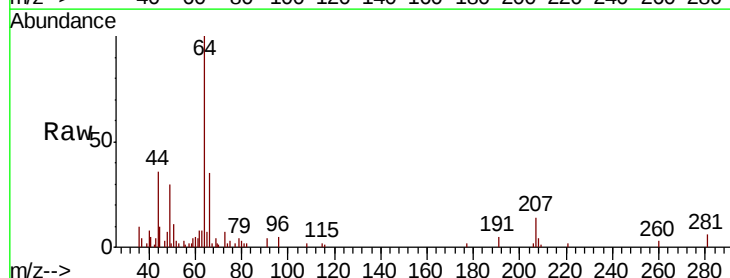
Acq: 10 Jul 2020 16:20

Tgt Ion: 64 Resp: 8828

Ion Ratio Lower Upper

64 100

66 34.6 26.0 39.0



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2.80

4000

3000

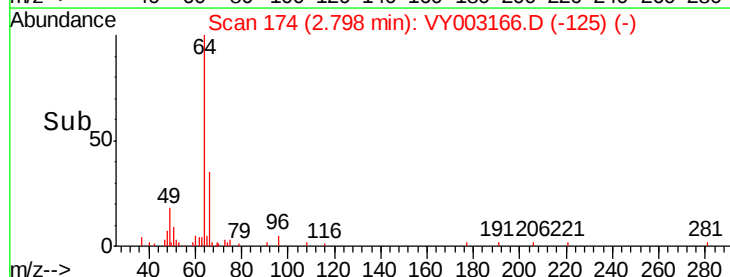
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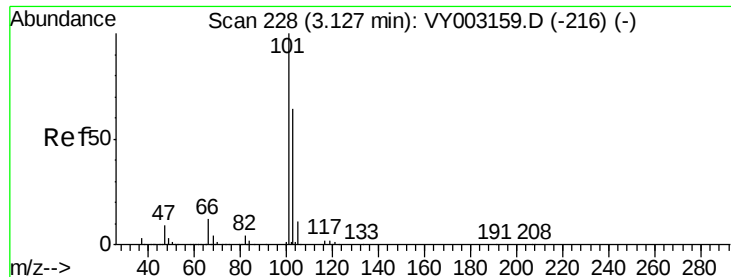
1000

0

Time-->

2.70 2.75 2.80 2.85 2.90





#7

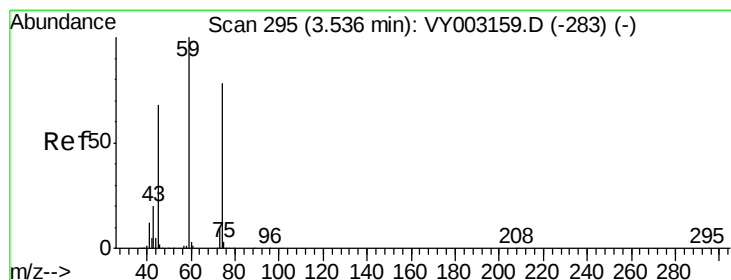
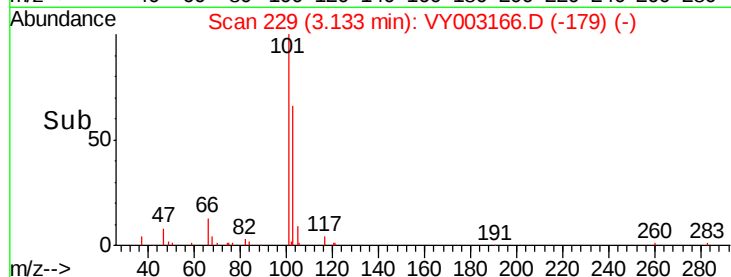
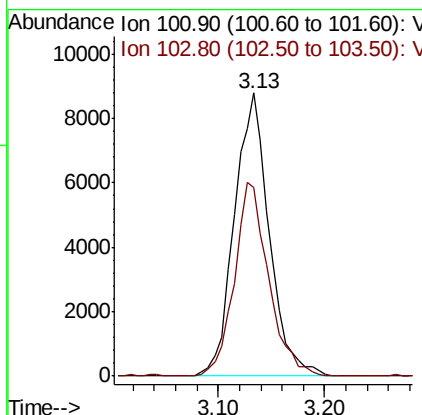
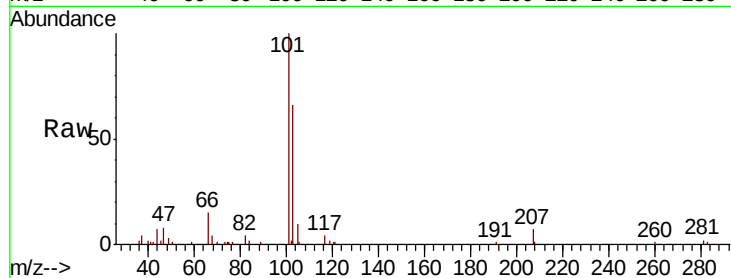
Trichlorofluoromethane
Concen: 2.897 ug/l
RT: 3.13 min Scan# 229
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.5	51.3	76.9

Manual Integrations
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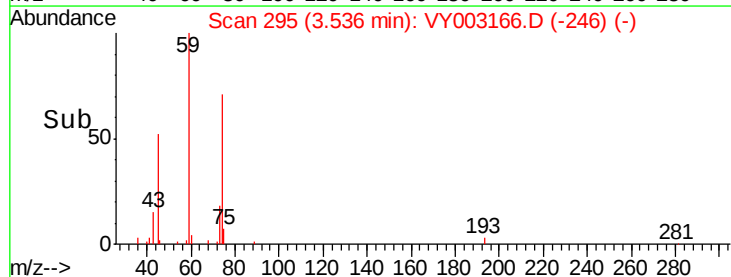
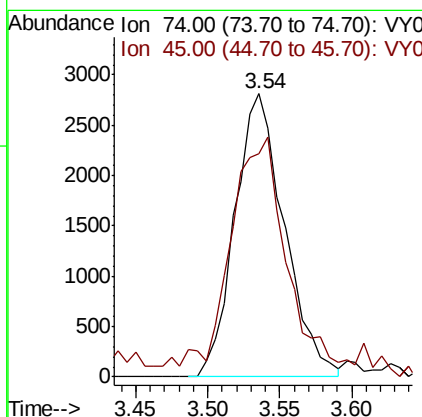
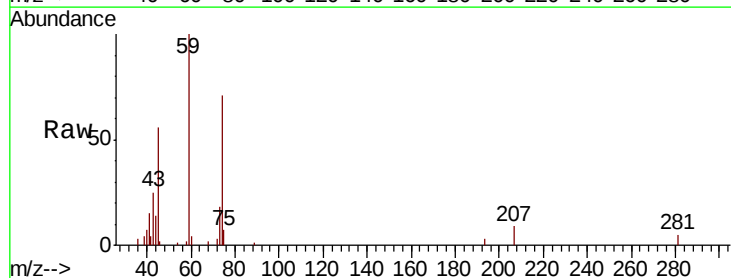
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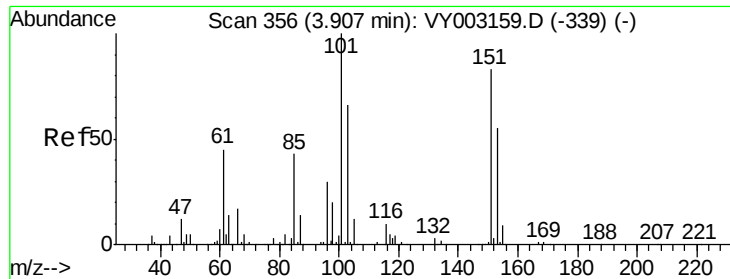


#8

Diethyl Ether
Concen: 2.885 ug/l
RT: 3.54 min Scan# 295
Delta R.T. 0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.4	45.3	135.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.009 ug/l

RT: 3.91 min Scan# 357

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

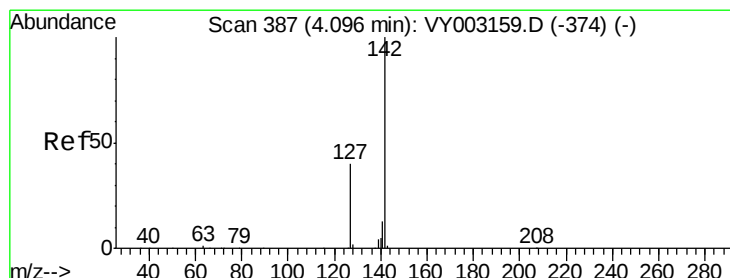
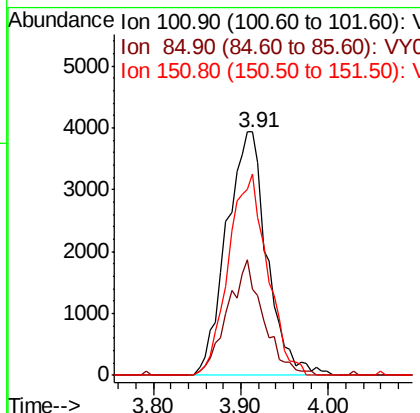
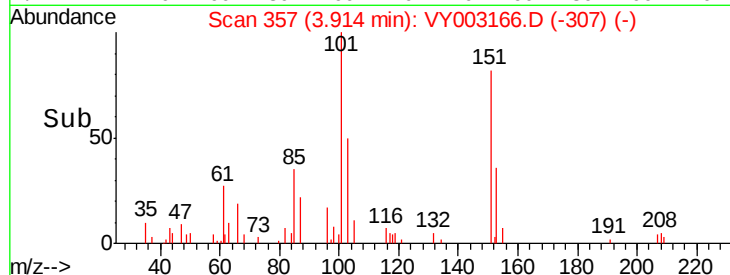
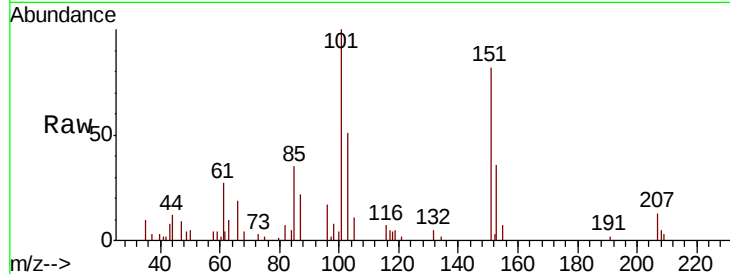
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	101	Resp:	12640
Ion Ratio	Lower	Upper	
101	100		
85	42.0	34.9	52.3
151	79.3	67.0	100.6

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#10

Methyl Iodide

Concen: 2.581 ug/l

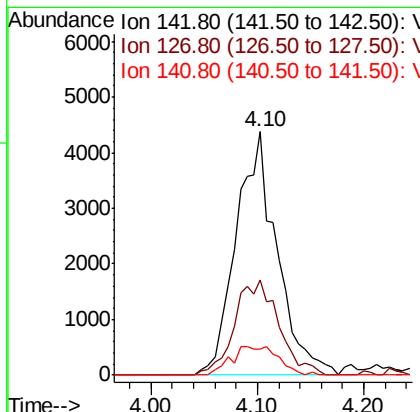
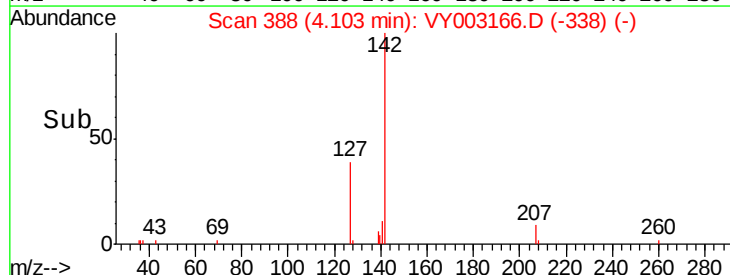
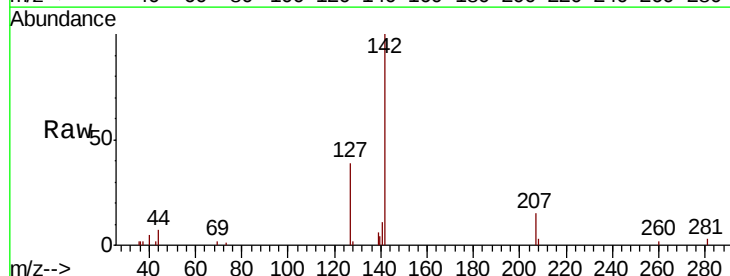
RT: 4.10 min Scan# 388

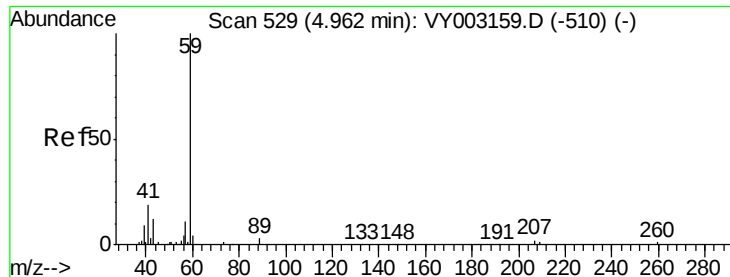
Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	142	Resp:	11779
Ion Ratio	Lower	Upper	
142	100		
127	42.0	33.5	50.3
141	13.7	11.2	16.8





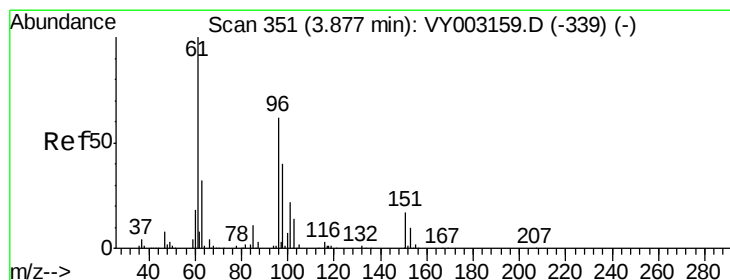
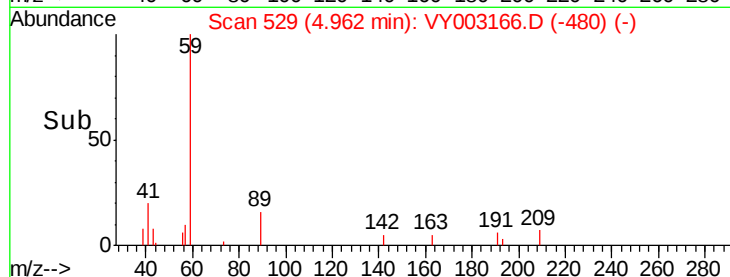
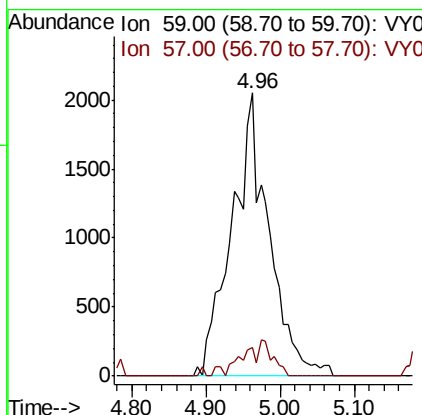
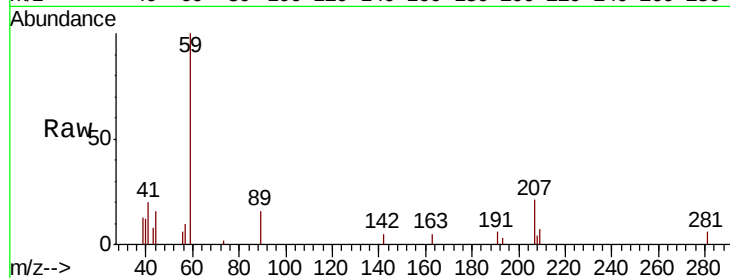
#11
Tert butyl alcohol
Concen: 16.339 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.9	8.4	12.6#

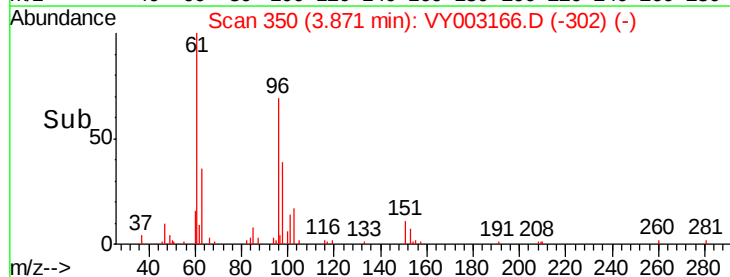
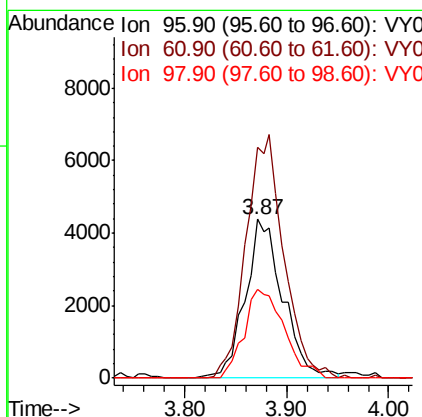
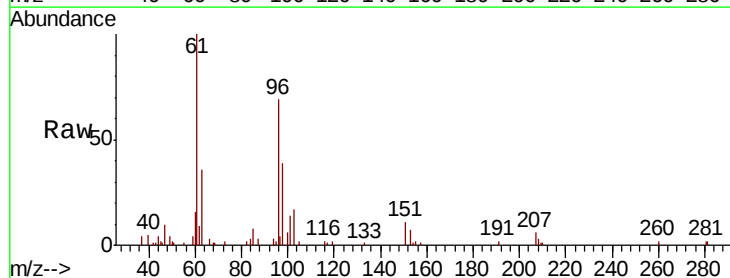
Manual Integrations
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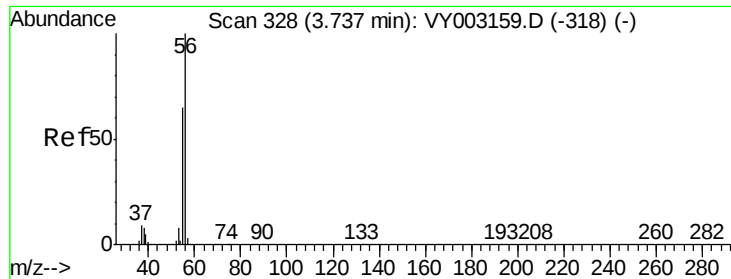
MMDadoda
7/13/2020 10:47:51 AM



#12
1,1-Dichloroethene
Concen: 2.840 ug/l
RT: 3.87 min Scan# 350
Delta R.T. -0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.2	128.6	193.0
98	56.0	51.6	77.4





#13

Acrolein

Concen: 15.427 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 56 Resp: 5835

Ion Ratio Lower Upper

56 100

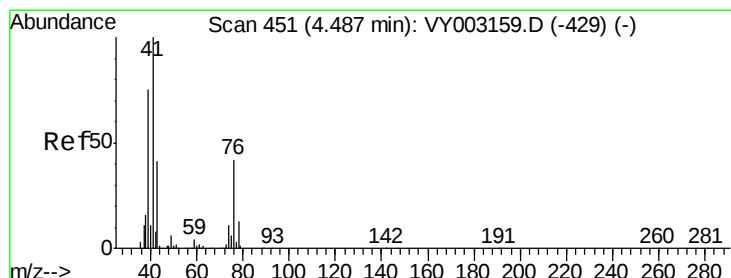
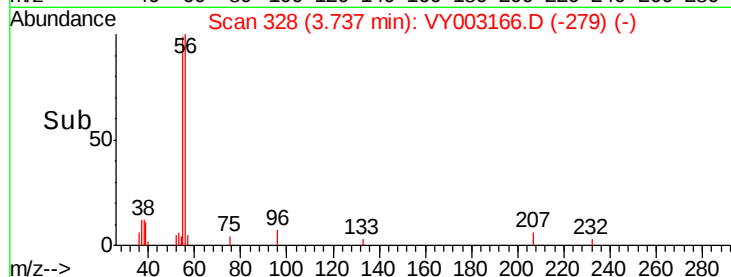
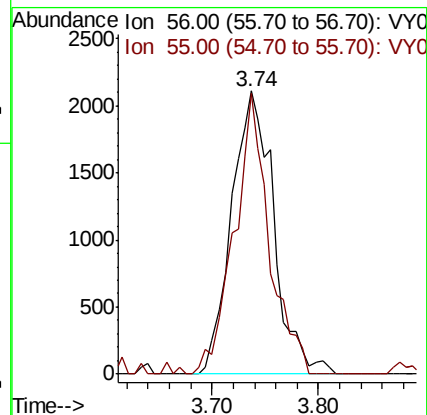
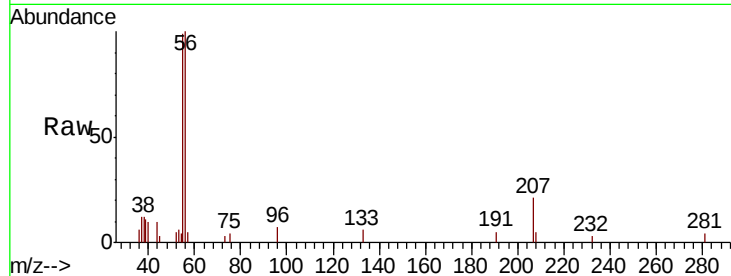
55 82.6 56.0 84.0

Manual Integrations

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#14

Allyl chloride

Concen: 2.513 ug/l

RT: 4.49 min Scan# 451

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

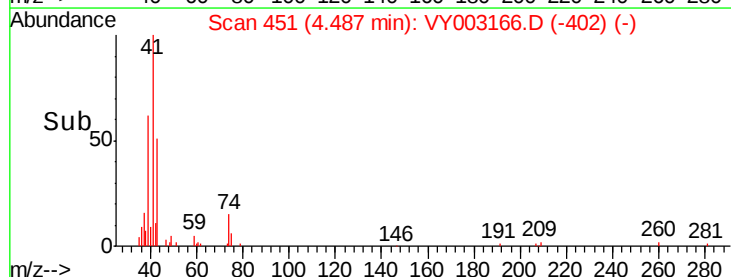
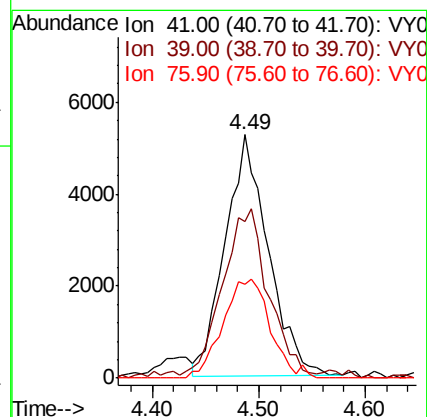
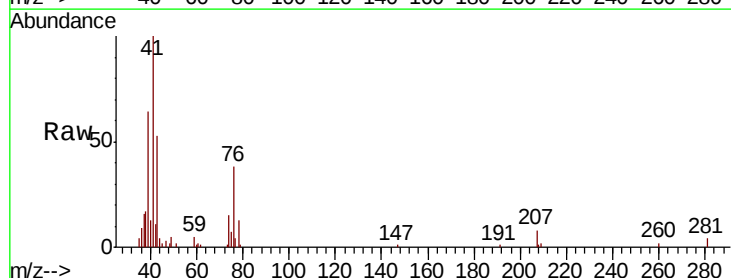
Tgt Ion: 41 Resp: 14814

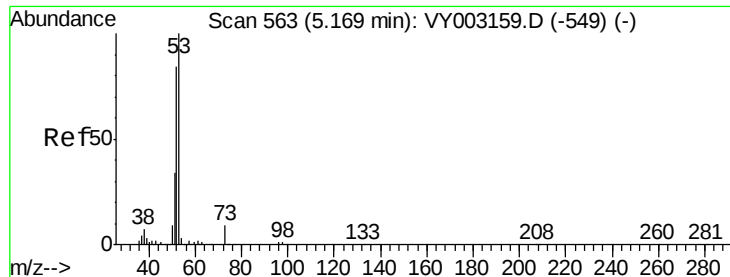
Ion Ratio Lower Upper

41 100

39 76.1 56.6 85.0

76 45.0 31.6 47.4





#15

Acrylonitrile

Concen: 13.615 ug/l

RT: 5.18 min Scan# 564

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

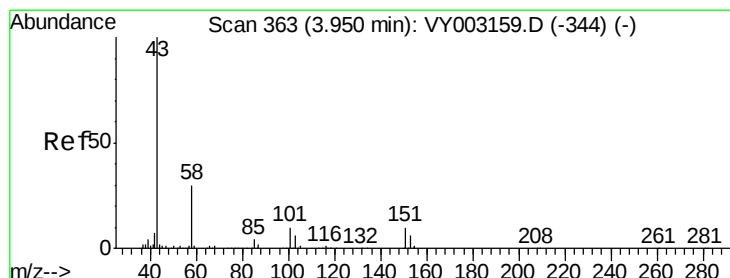
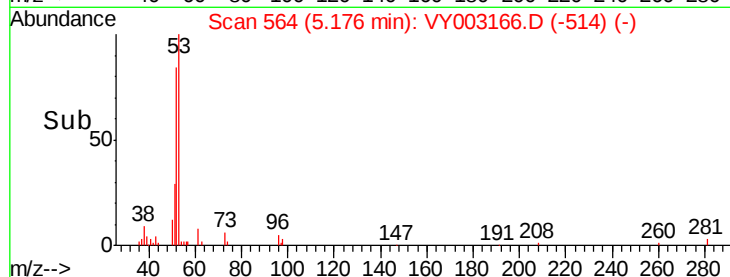
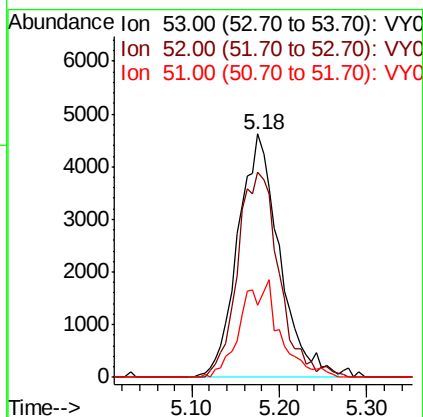
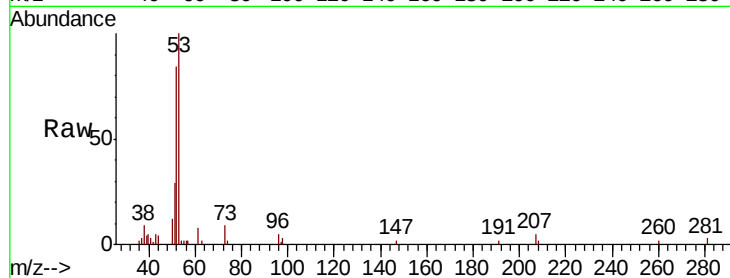
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	53	Resp:	15243
Ion	Ratio	Lower	Upper
53	100		
52	84.4	65.8	98.6
51	18.8	29.0	43.4#

Manual Integrations
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#16

Acetone

Concen: 16.287 ug/l

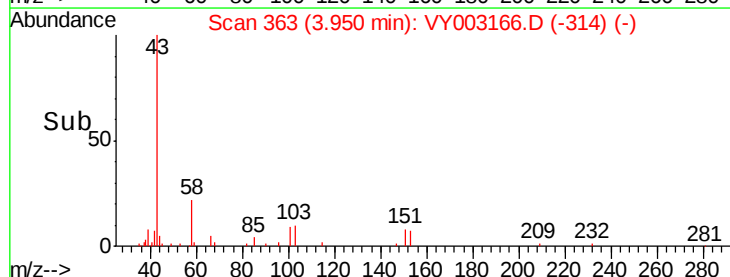
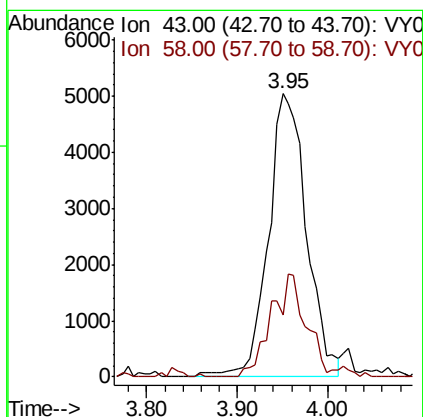
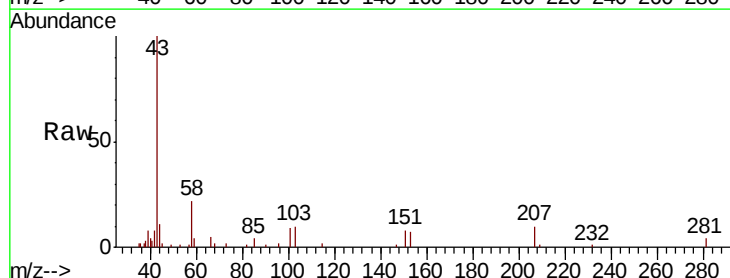
RT: 3.95 min Scan# 363

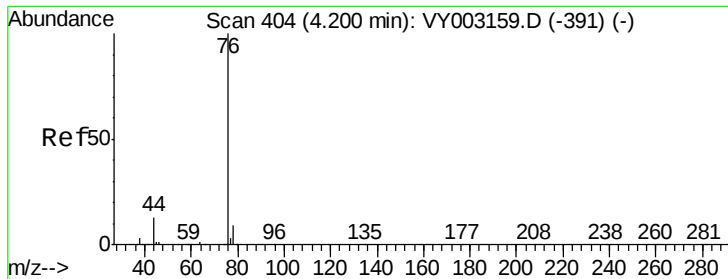
Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	43	Resp:	14661
Ion	Ratio	Lower	Upper
43	100		
58	21.7	23.8	35.6#





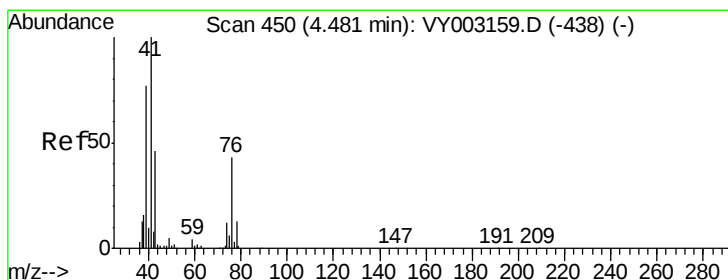
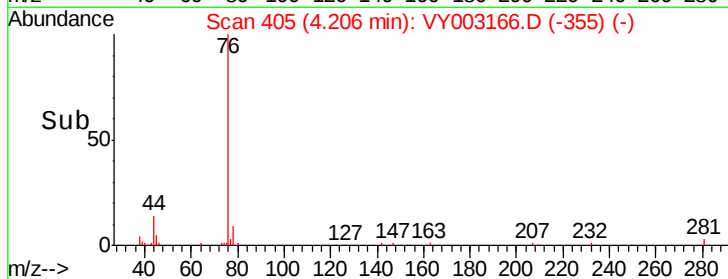
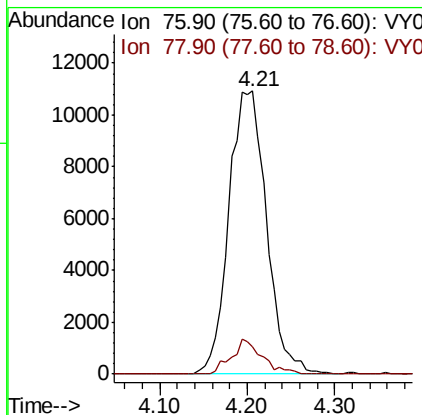
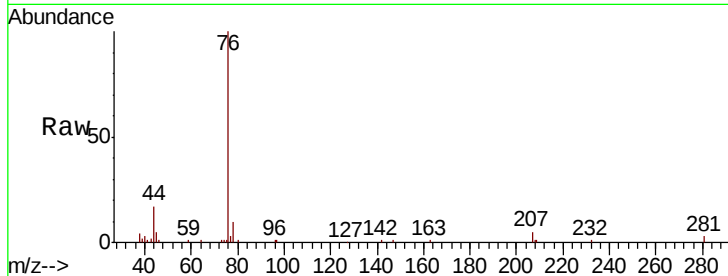
#17
Carbon Disulfide
Concen: 2.670 ug/l
RT: 4.21 min Scan# 405
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9

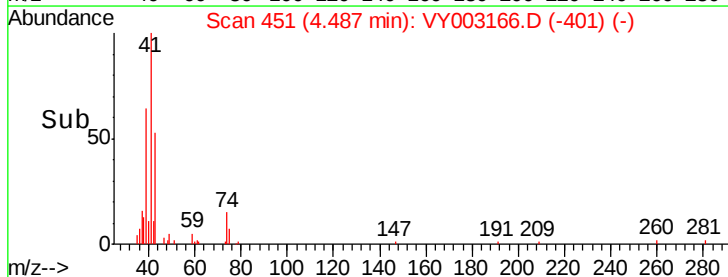
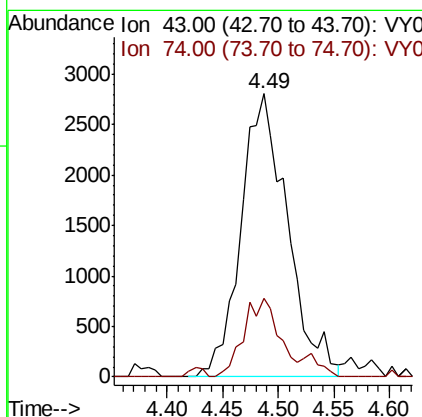
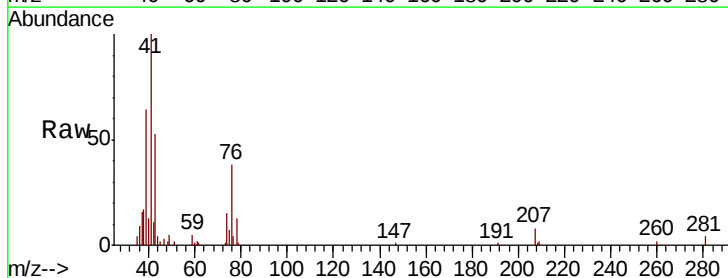
Manual Integrations
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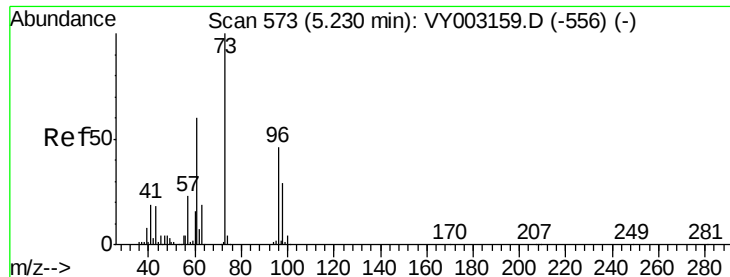
MMDadoda
7/13/2020 10:47:51 AM



#18
Methyl Acetate
Concen: 3.267 ug/l
RT: 4.49 min Scan# 451
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.1	20.8	31.2





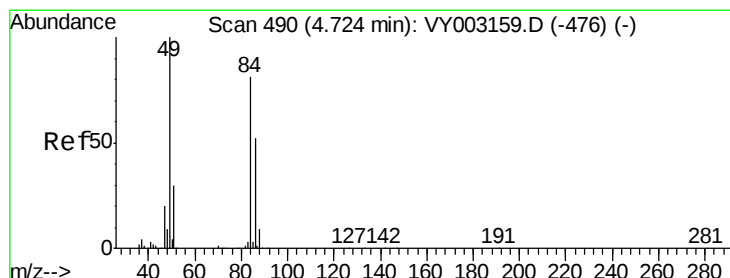
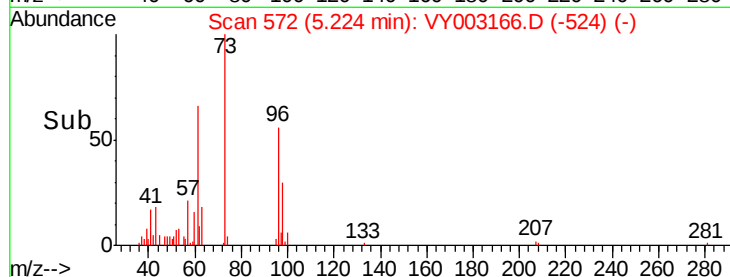
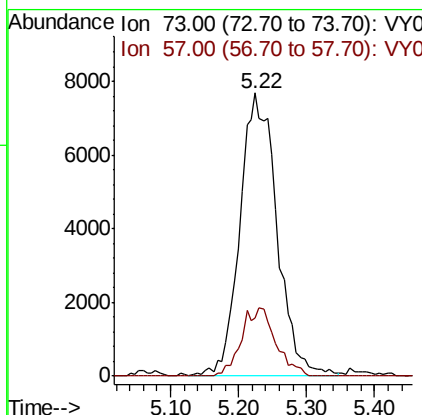
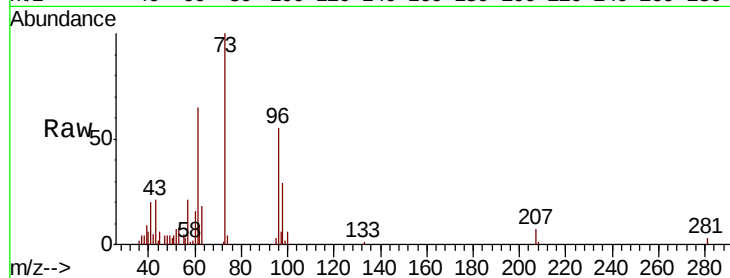
#19
Methvl tert-butvl Ether
Concen: 2.621 ug/l
RT: 5.22 min Scan# 572
Delta R.T. -0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.5	18.1	27.1

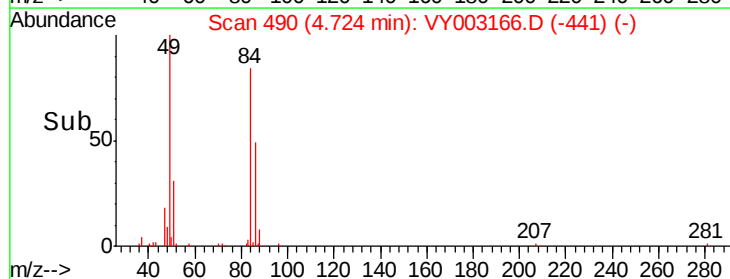
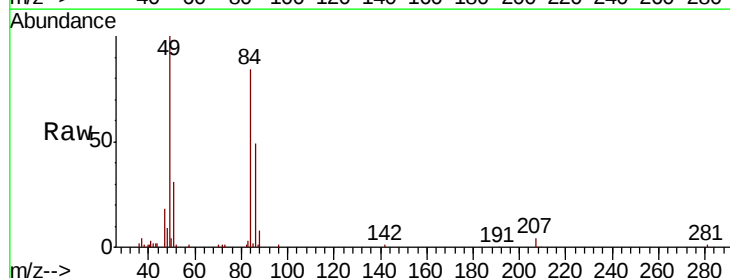
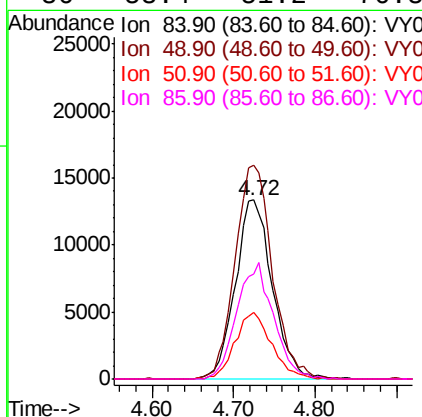
Manual Integrations
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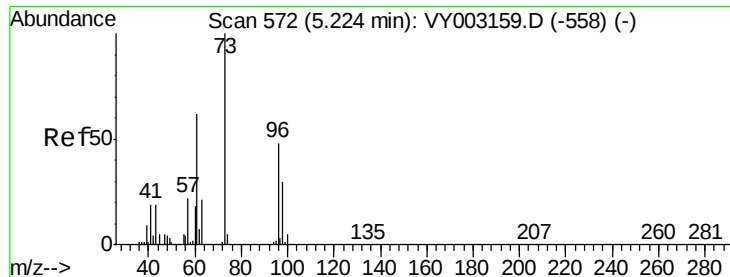
MMDadoda
7/13/2020 10:47:51 AM



#20
Methylene Chloride
Concen: 7.844 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.4	98.2	147.4
51	37.5	29.8	44.6
86	58.4	51.2	76.8





#21

trans-1,2-Dichloroethene

Concen: 2.889 ug/l

RT: 5.22 min Scan# 572

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

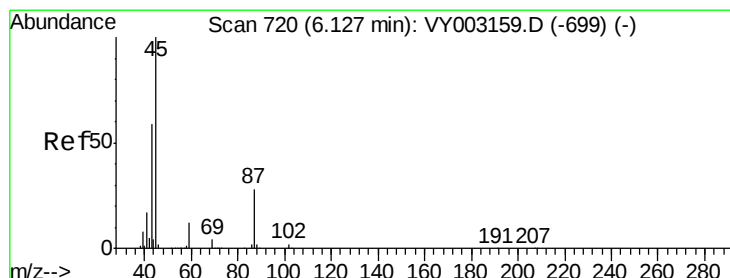
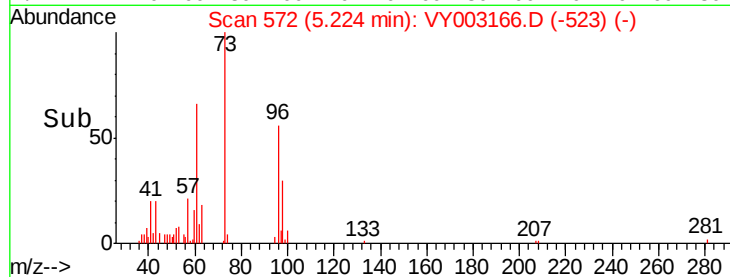
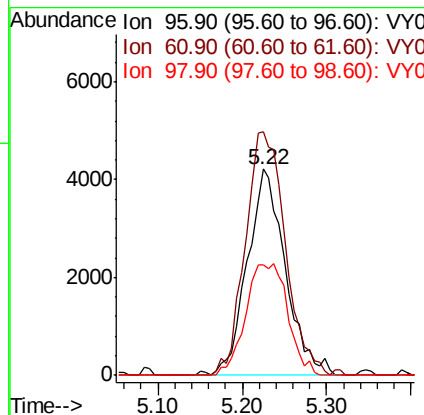
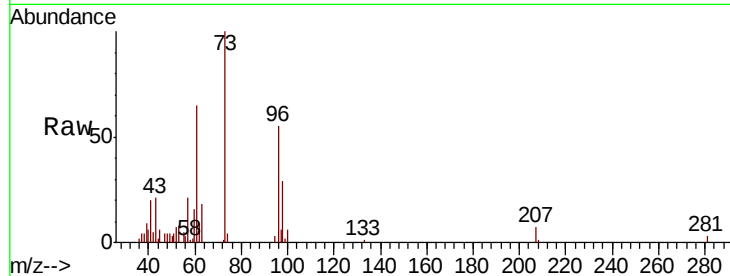
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	96	Resp:	12985
Ion	Ratio	Lower	Upper
96	100		
61	118.0	102.5	153.7
98	53.5	49.8	74.8

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#22

Diisopropyl ether

Concen: 2.656 ug/l

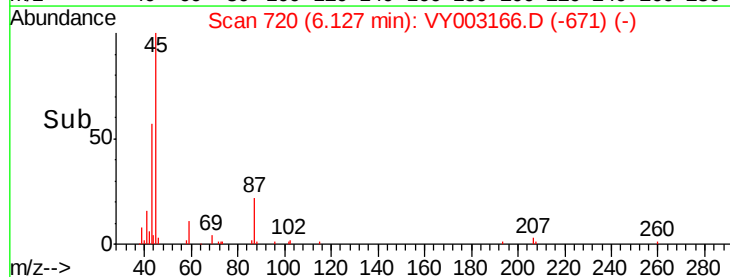
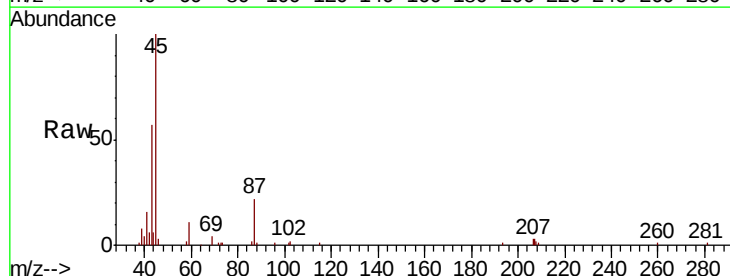
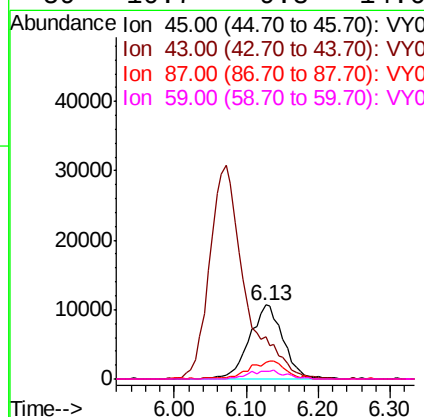
RT: 6.13 min Scan# 720

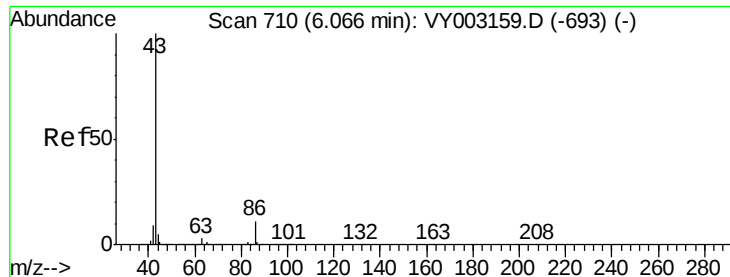
Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	45	Resp:	34756
Ion	Ratio	Lower	Upper
45	100		
43	56.5	47.0	70.4
87	22.2	22.6	33.8#
59	10.7	9.8	14.6





#23

Vinyl Acetate

Concen: 12.044 ug/l

RT: 6.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 105032

Ion Ratio Lower Upper

43 100

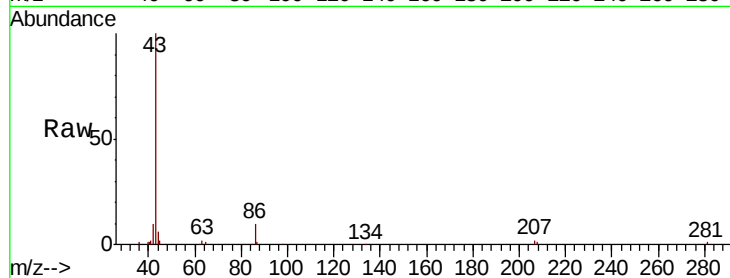
86 10.3 8.8 13.2

Manual Integrations

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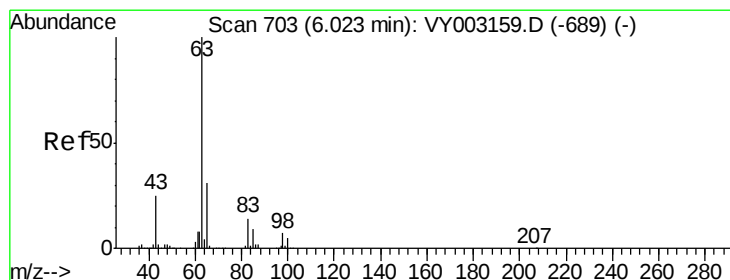
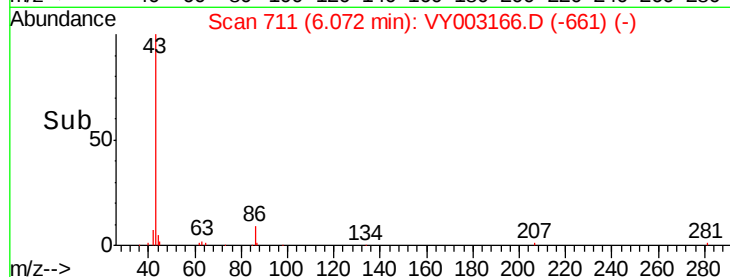
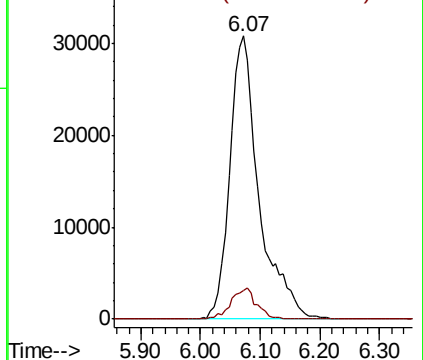
MMDadoda

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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: 2.661 ug/l

RT: 6.03 min Scan# 704

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

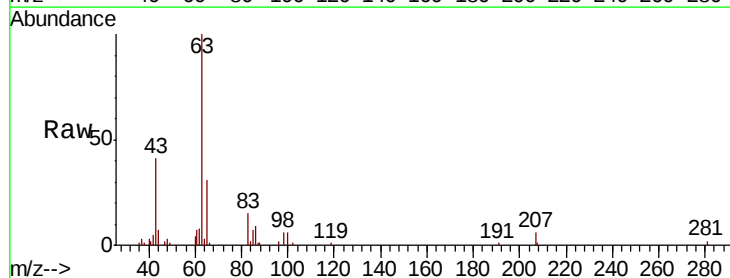
Tgt Ion: 63 Resp: 20175

Ion Ratio Lower Upper

63 100

98 6.2 3.6 10.8

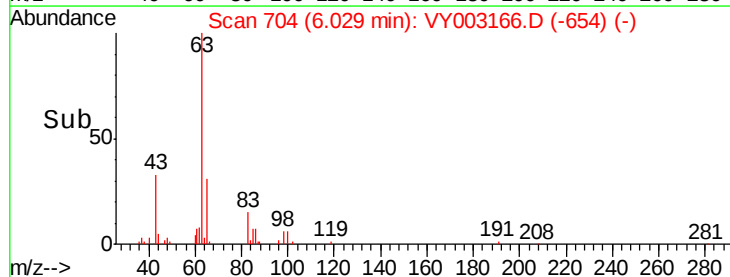
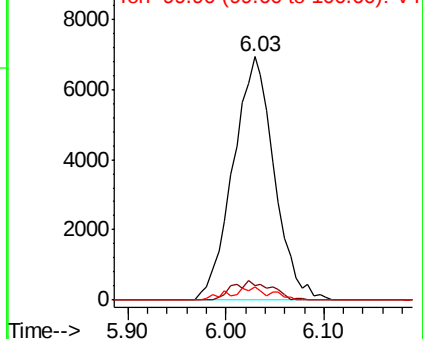
100 5.6 2.4 7.2



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: 13.568 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 20054

Ion Ratio Lower Upper

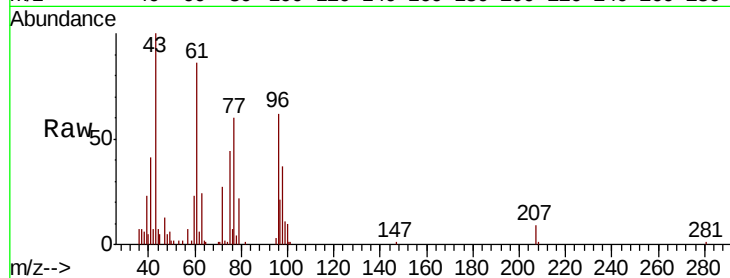
43 100

72 27.2 20.9 31.3

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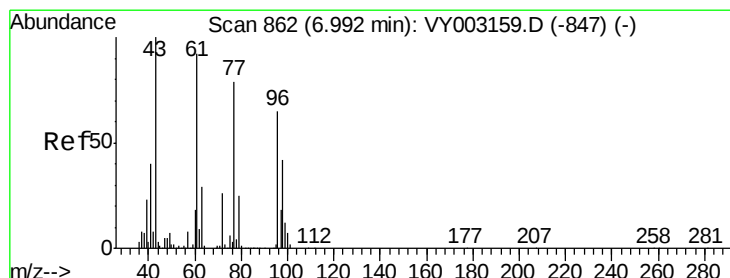
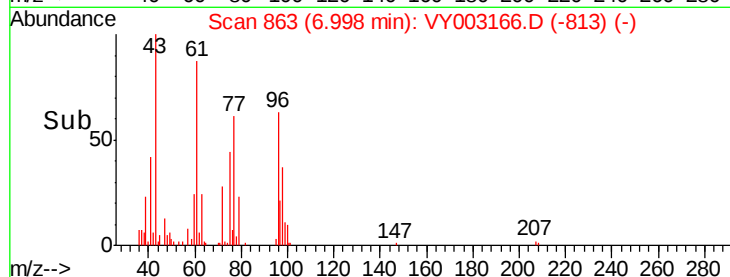
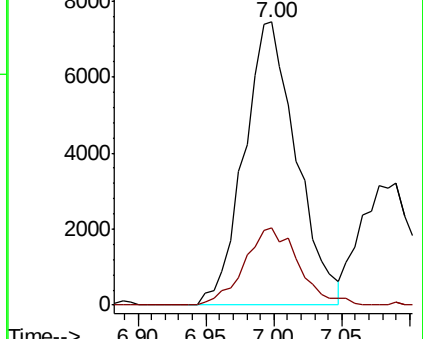
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Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 2.602 ug/l

RT: 6.99 min Scan# 861

Delta R.T. -0.01 min

Lab File: VY003166.D

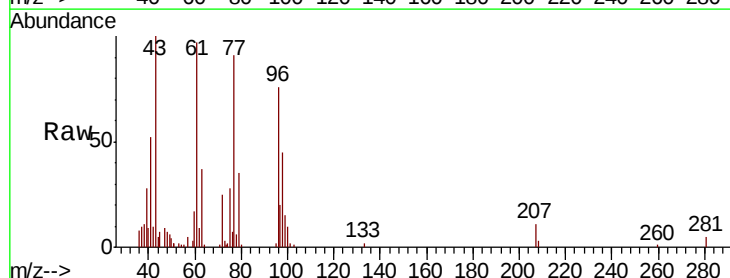
Acq: 10 Jul 2020 16:20

Tgt Ion: 77 Resp: 17762

Ion Ratio Lower Upper

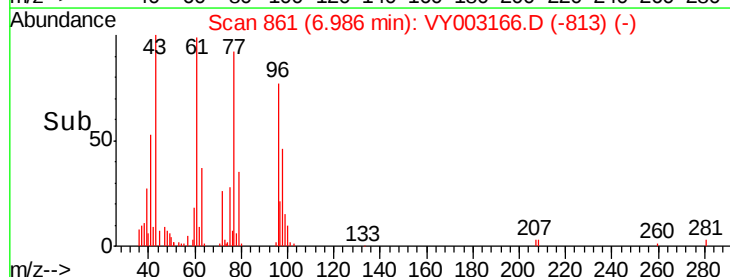
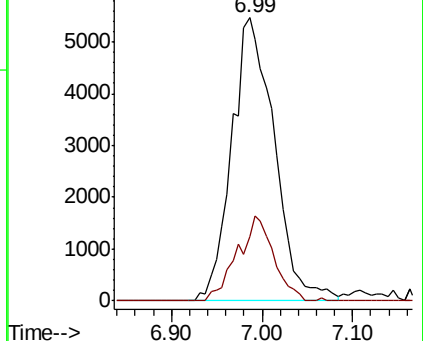
77 100

97 25.6 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0





#27

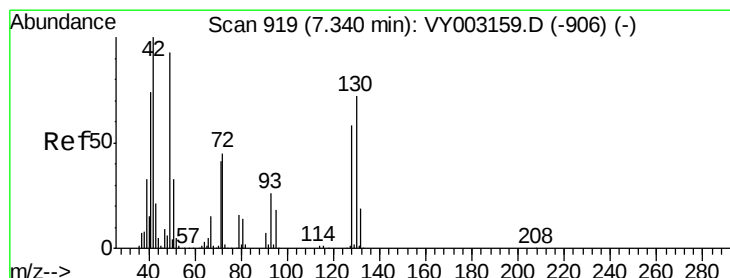
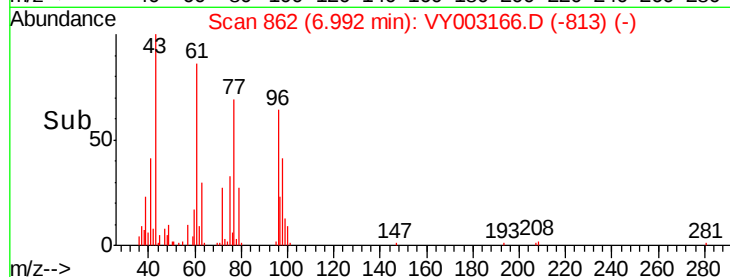
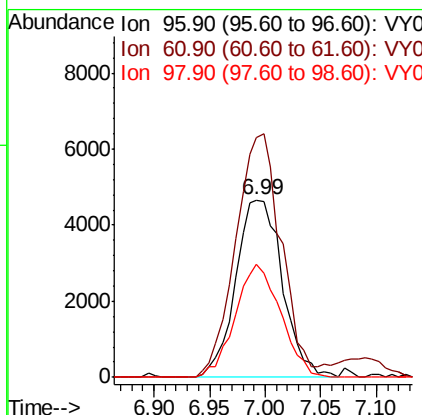
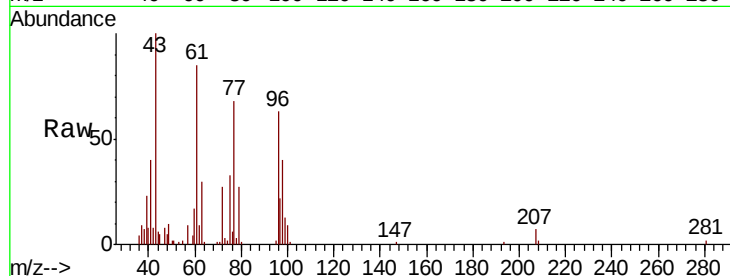
cis-1,2-Dichloroethene
Concen: 2.737 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	0.0	281.2
98	62.3	0.0	129.8

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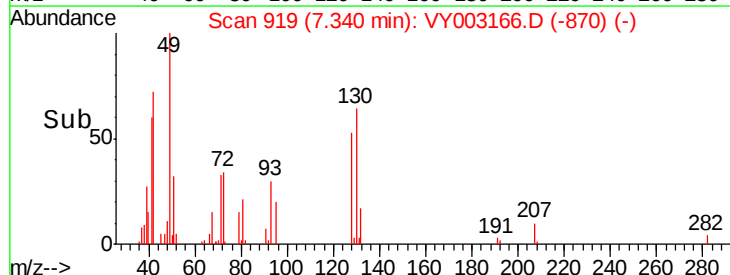
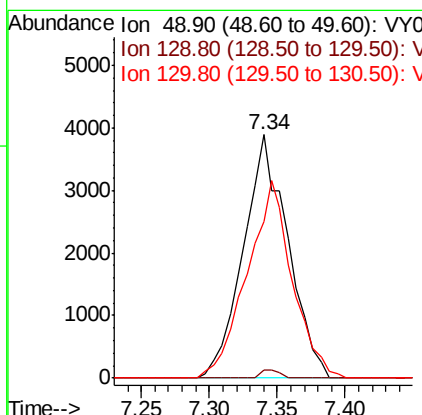
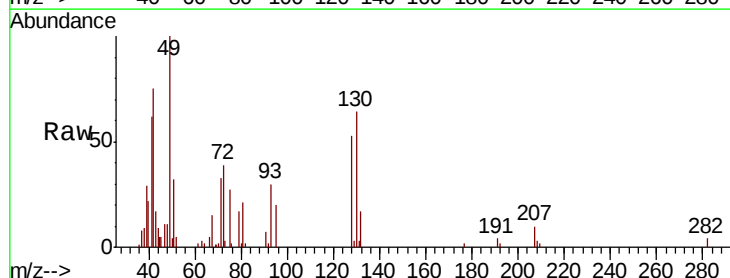
MMDadoda
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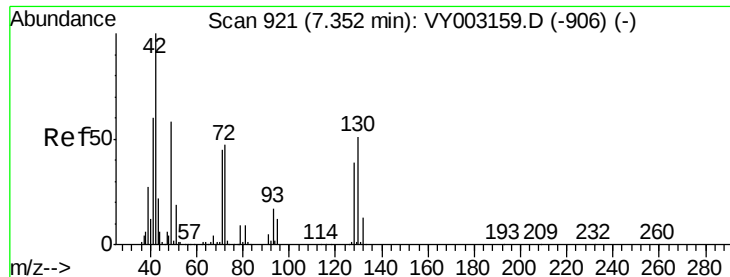


#28

Bromochloromethane
Concen: 2.712 ug/l
RT: 7.34 min Scan# 919
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	5.0
130	82.2	64.9	97.3





#29

Tetrahydrofuran

Concen: 13.288 ug/l

RT: 7.36 min Scan# 922

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

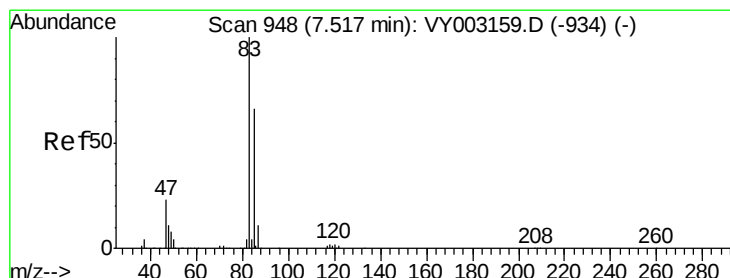
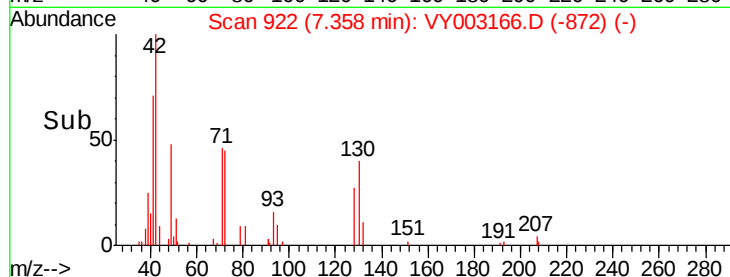
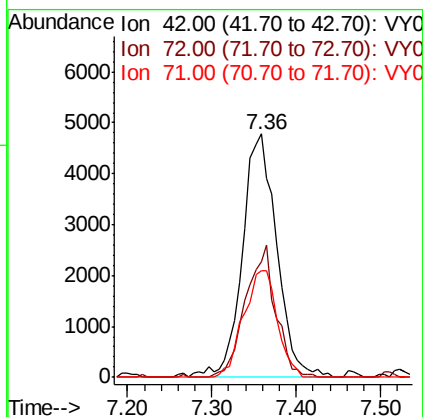
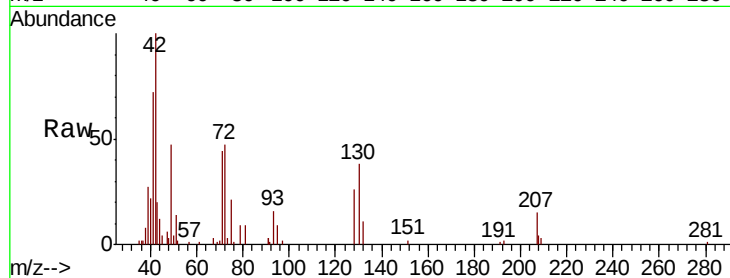
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	42	Resp:	13194
Ion	Ratio	Lower	Upper
42	100		
72	47.5	36.7	55.1
71	43.0	34.2	51.4

Manual Integrations
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#30

Chloroform

Concen: 2.673 ug/l

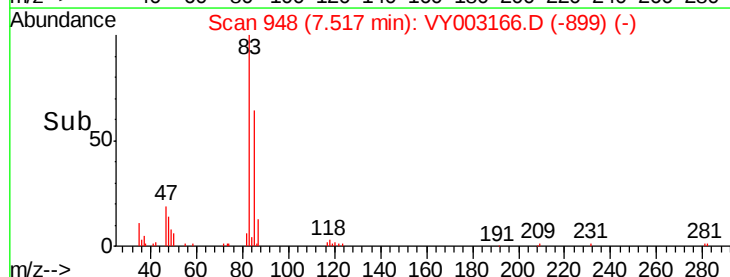
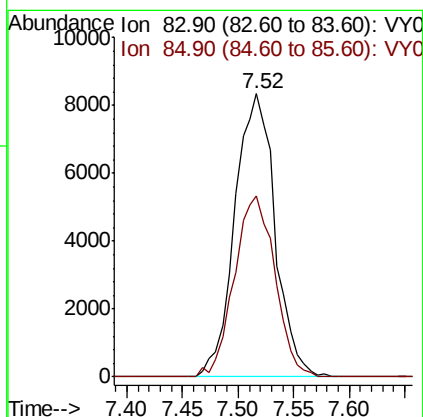
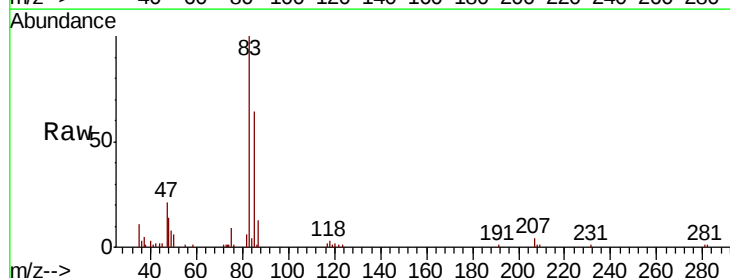
RT: 7.52 min Scan# 948

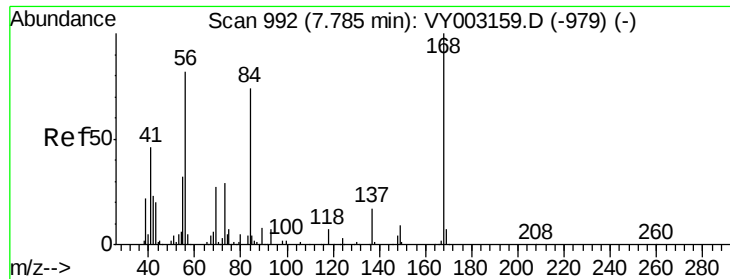
Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	83	Resp:	20869
Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.6	78.8





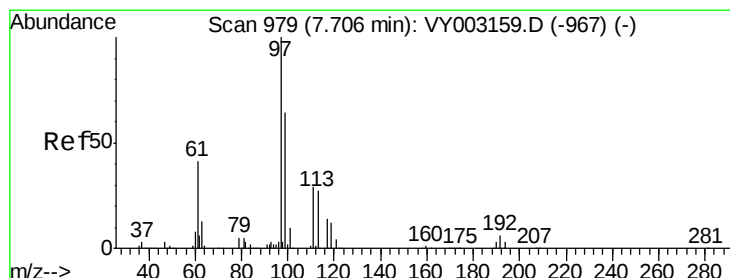
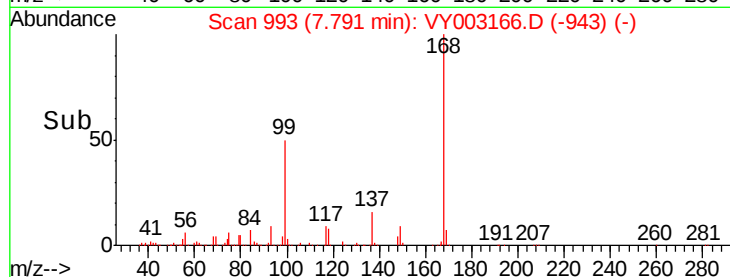
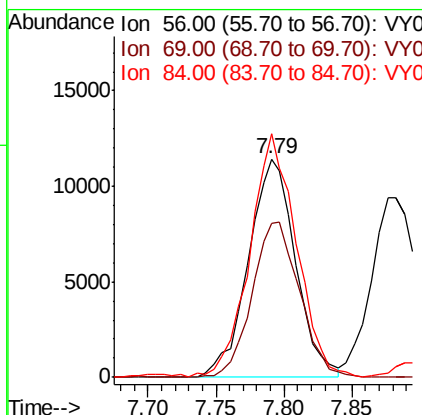
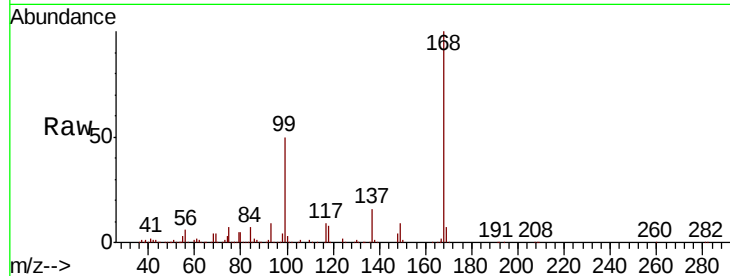
#31
Cyclohexane
Concen: 3.779 ug/l
RT: 7.79 min Scan# 993
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	70.4	26.7	40.1#
84	111.6	72.3	108.5#

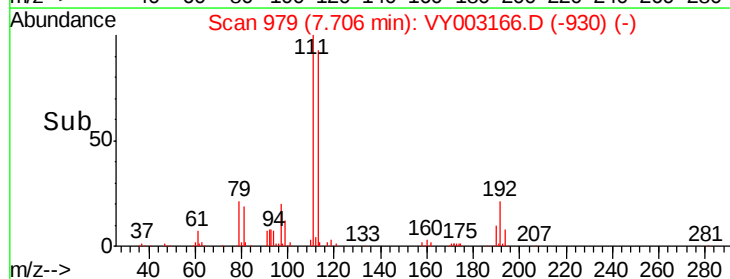
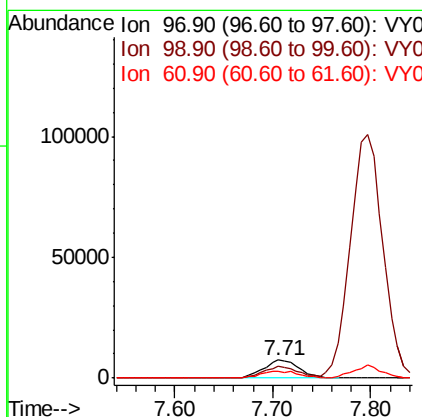
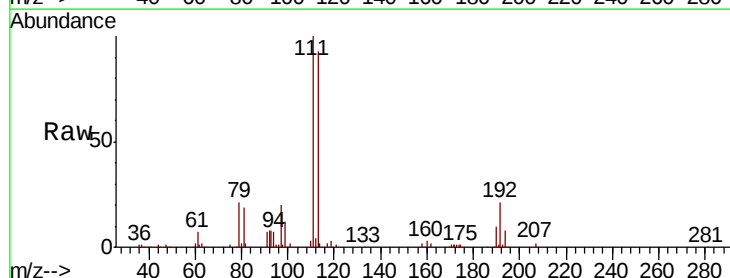
Manual Integrations
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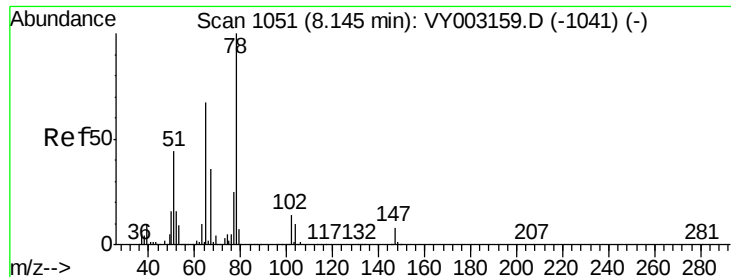
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#32
1,1,1-Trichloroethane
Concen: 2.684 ug/l
RT: 7.71 min Scan# 979
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.1	78.1
61	39.9	33.9	50.9





#33

1,2-Dichloroethane-d4

Concen: 49.543 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 65 Resp: 199658

Ion Ratio Lower Upper

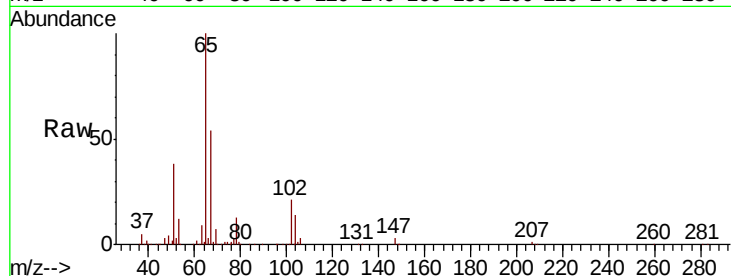
65 100

67 53.2 0.0 105.2

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Abundance Ion 64.90 (64.60 to 65.60): VY003159.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY003159.D (-1041) (-)

8.15

100000

80000

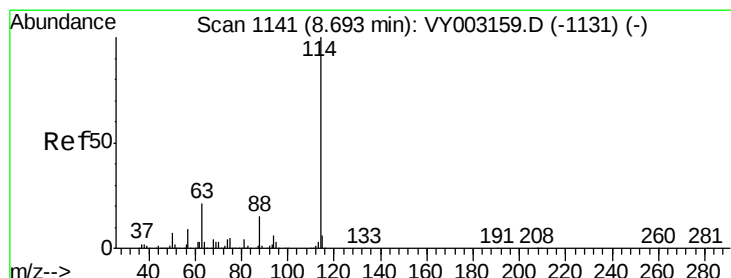
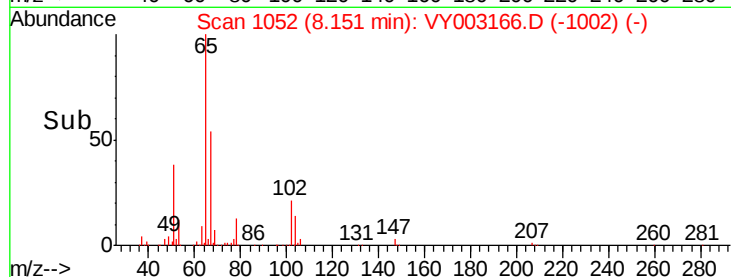
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

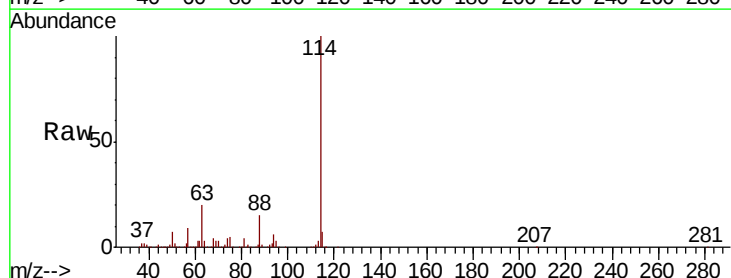
Tgt Ion: 114 Resp: 689483

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.2

88 14.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VY003159.D (-1131) (-)

Ion 63.00 (62.70 to 63.70): VY003159.D (-1131) (-)

Ion 87.90 (87.60 to 88.60): VY003159.D (-1131) (-)

8.69

400000

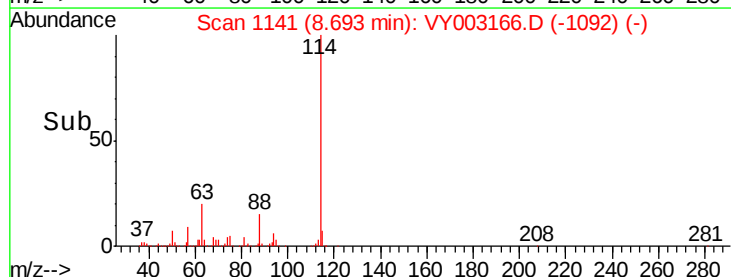
300000

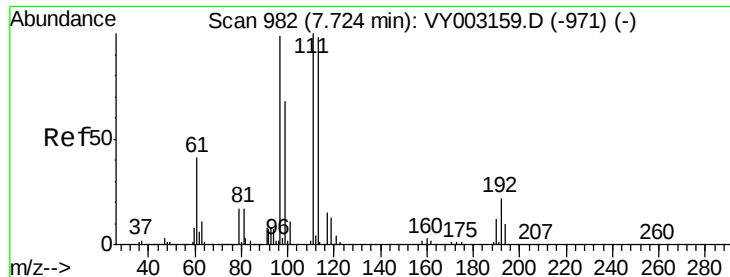
200000

100000

0

Time-->





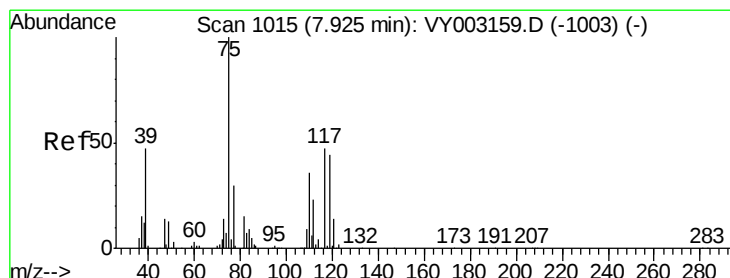
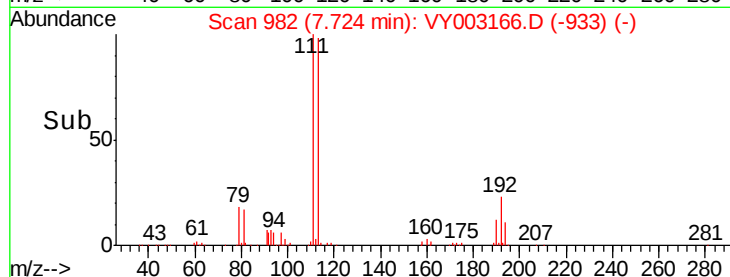
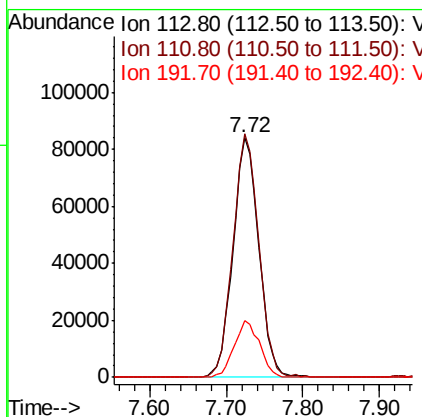
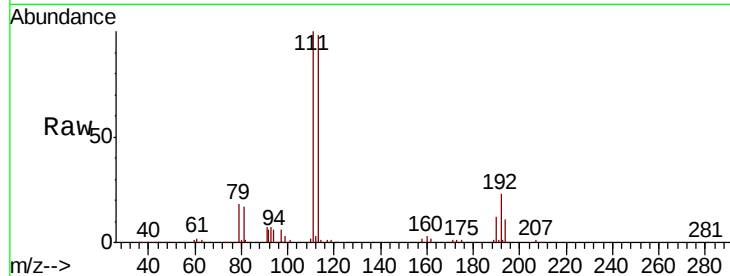
#35
Dibromofluoromethane
Concen: 49.373 ug/l
RT: 7.72 min Scan# 982
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Resp	Lower	Upper
113	100	195904		
111	101.8	82.1	123.1	
192	23.3	18.8	28.2	

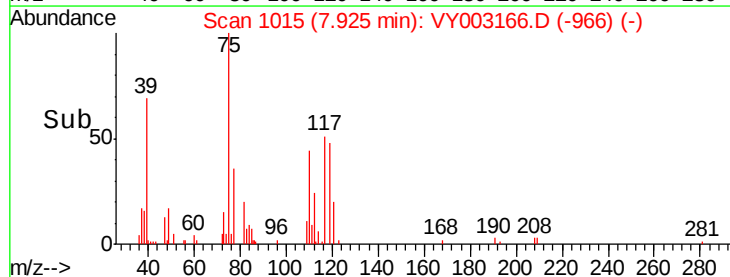
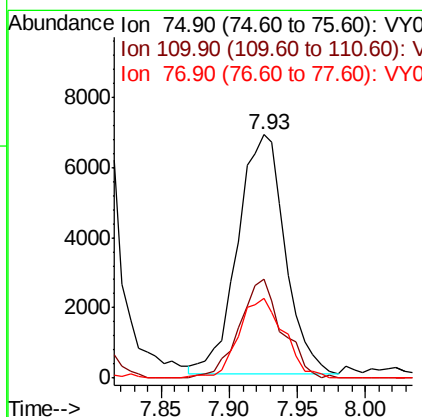
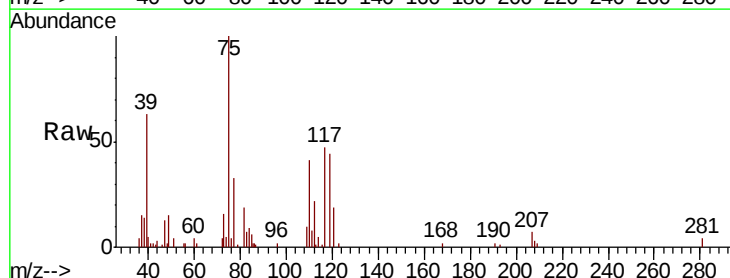
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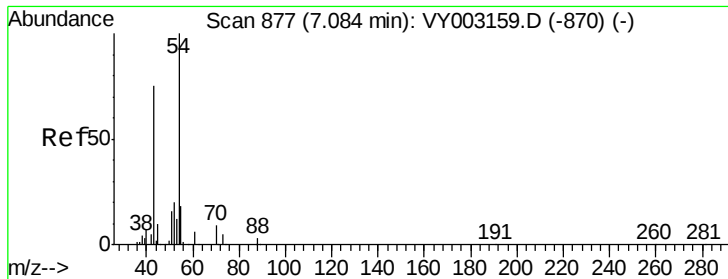
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#36
1,1-Dichloropropene
Concen: 2.673 ug/l
RT: 7.93 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	16701		
110	37.1	18.1	54.1	
77	31.7	24.8	37.2	





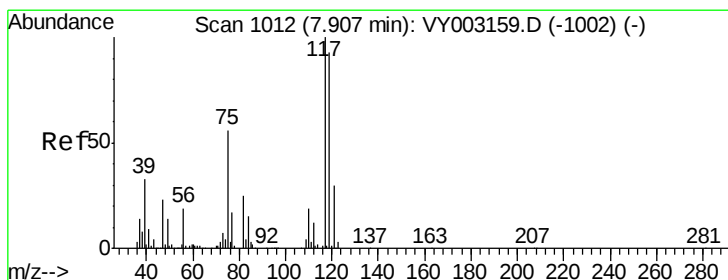
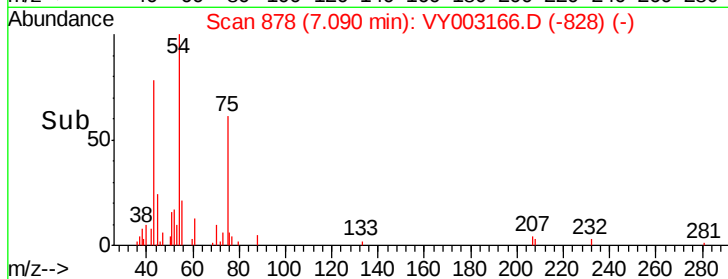
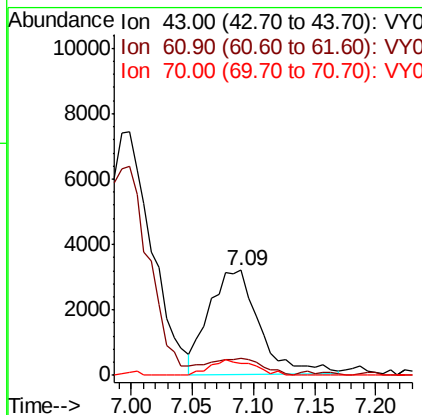
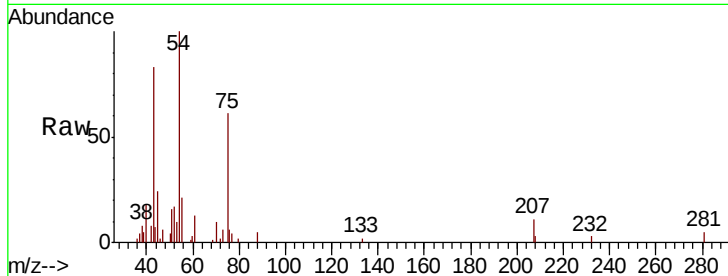
#37
Ethyl Acetate
Concen: 2.717 ug/l
RT: 7.09 min Scan# 878
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.9	11.8	17.6#
70	12.6	8.6	13.0

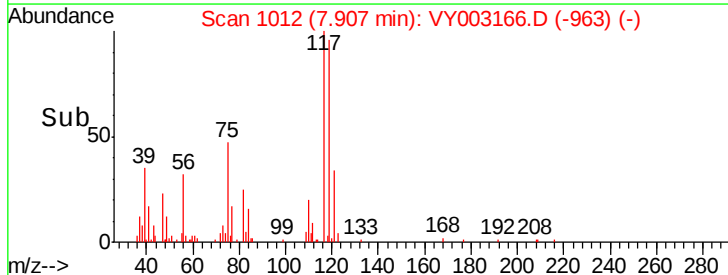
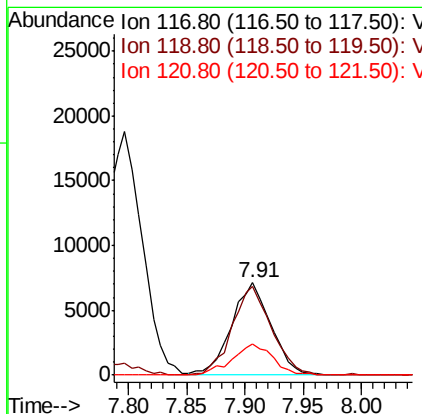
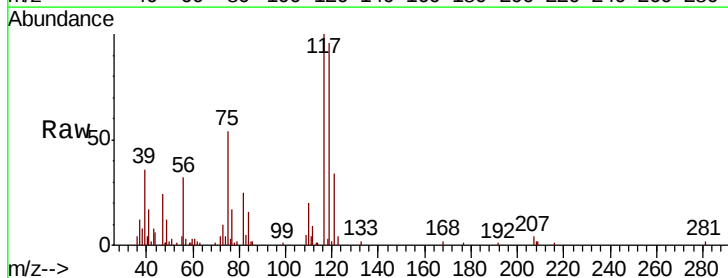
Manual Integrations
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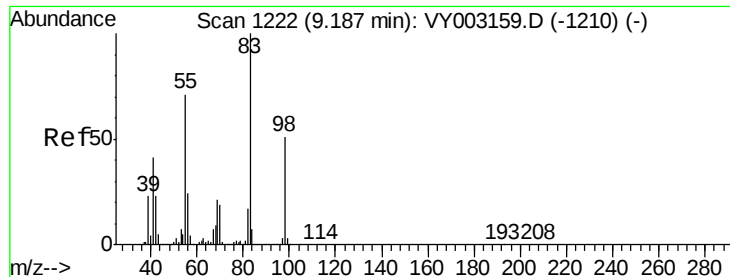
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#38
Carbon Tetrachloride
Concen: 2.622 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	74.5	111.7
121	34.4	24.2	36.2





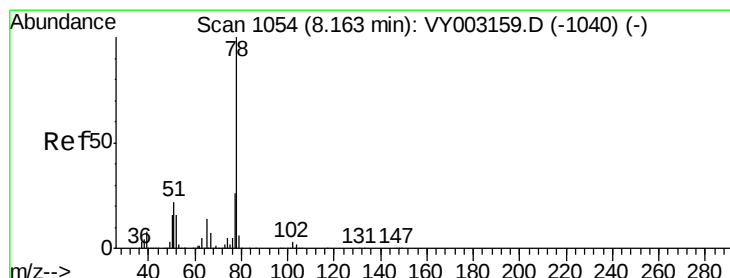
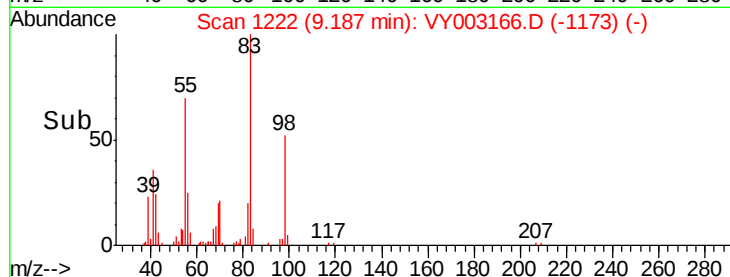
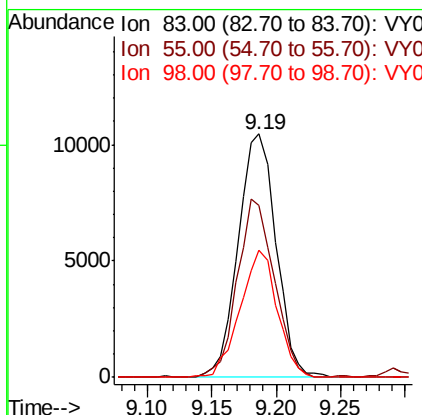
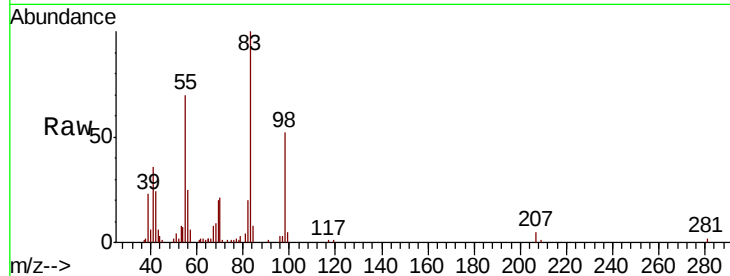
#39
Methylvlcyclohexane
Concen: 2.721 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	83	Resp	21357
Ion	Ratio	Lower	Upper
83	100		
55	70.4	57.2	85.8
98	52.4	41.0	61.6

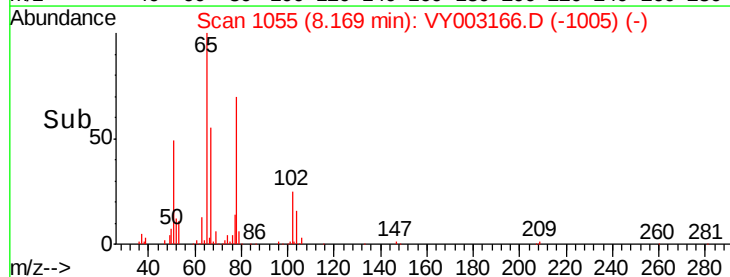
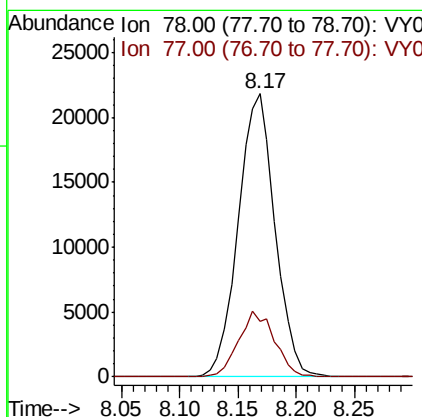
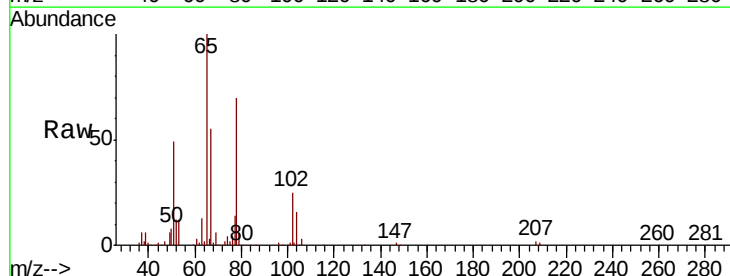
Manual Integrations
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#40
Benzene
Concen: 2.778 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	78	Resp	47807
Ion	Ratio	Lower	Upper
78	100		
77	19.8	20.7	31.1#





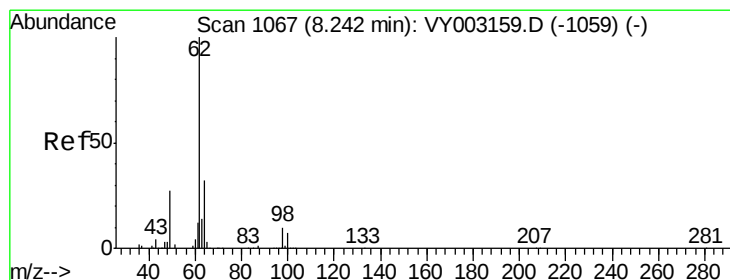
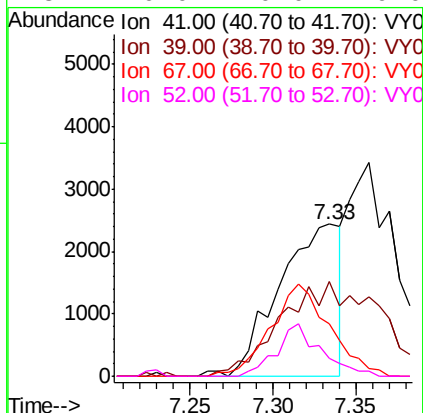
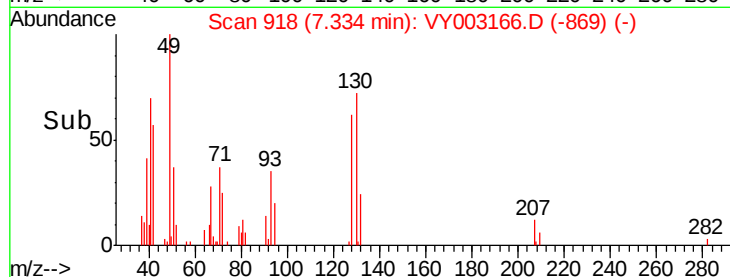
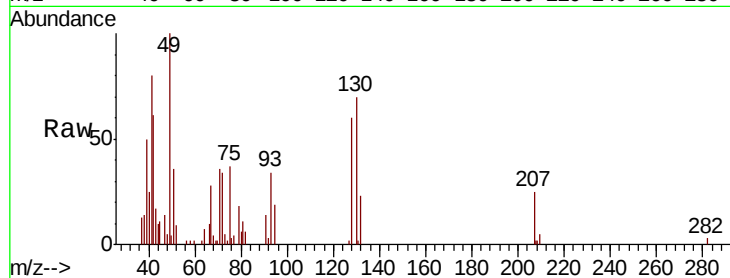
#41
Methacrylonitrile
Concen: 3.116 ug/l m
RT: 7.33 min Scan# 918
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	83.3	124.9#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

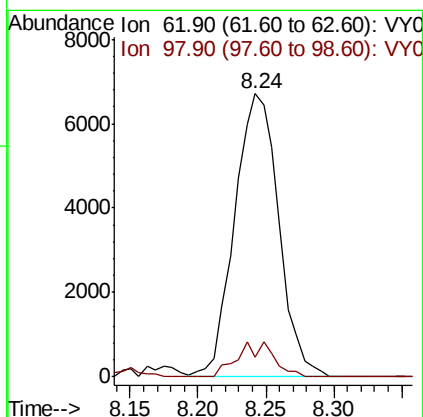
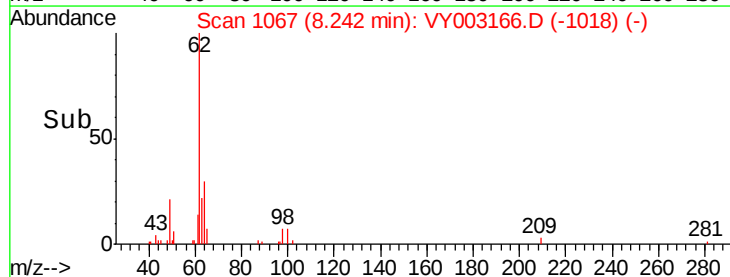
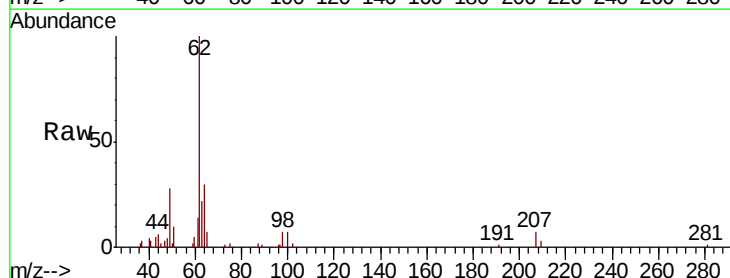
Manual Integrations
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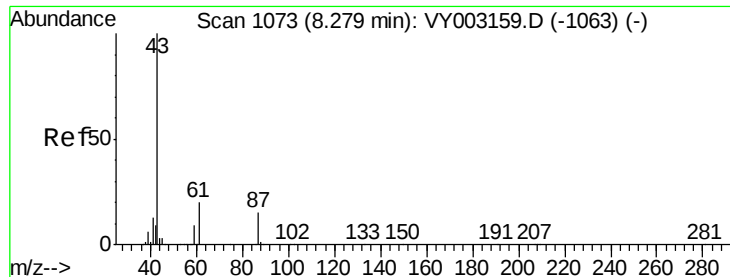
MMDadoda
7/13/2020 10:47:51 AM



#42
1,2-Dichloroethane
Concen: 2.866 ug/l
RT: 8.24 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0





#43

Isopropyl Acetate

Concen: 2.525 ug/l

RT: 8.28 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

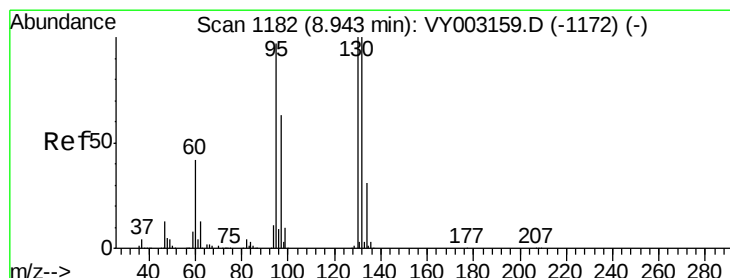
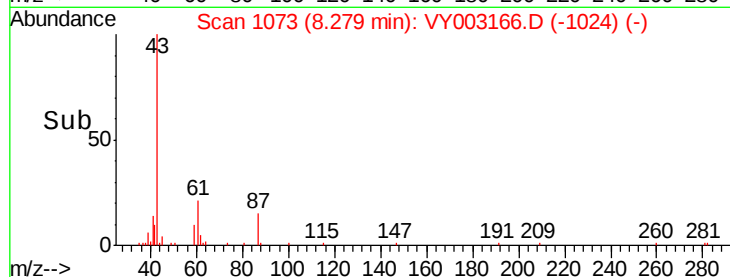
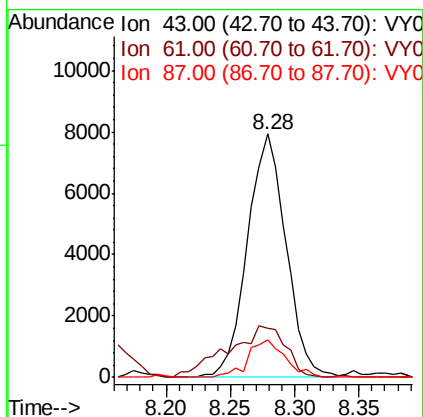
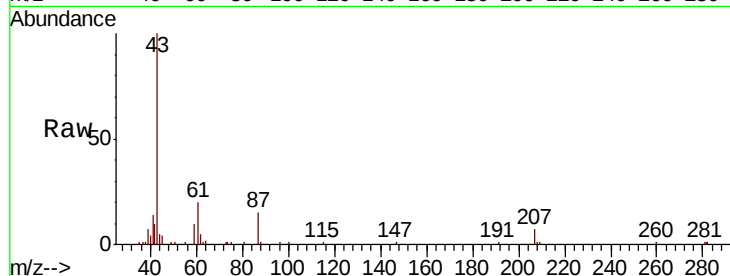
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	43	Resp:	16446
Ion	Ratio	Lower	Upper
43	100		
61	31.8	23.7	35.5
87	14.8	11.4	17.0

Manual Integrations
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MMDadoda
7/13/2020 10:47:51 AM



#44

Trichloroethene

Concen: 2.817 ug/l

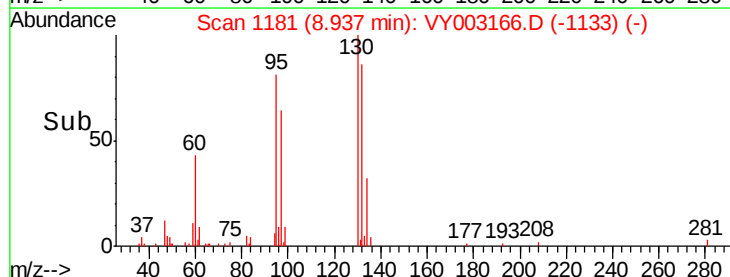
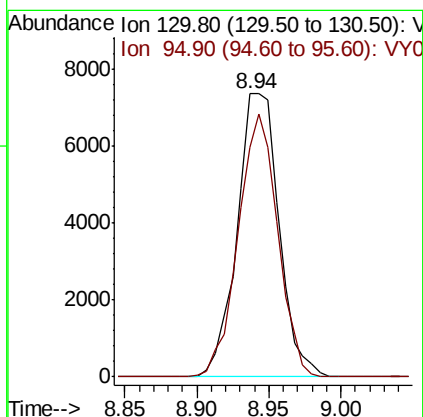
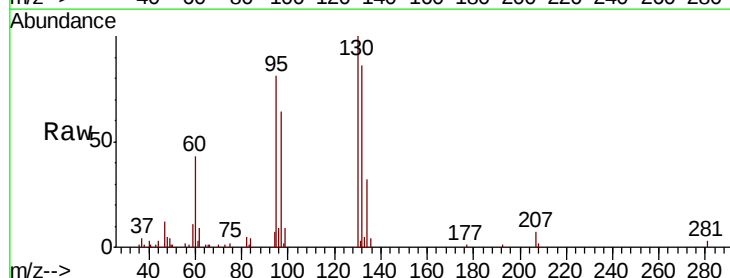
RT: 8.94 min Scan# 1181

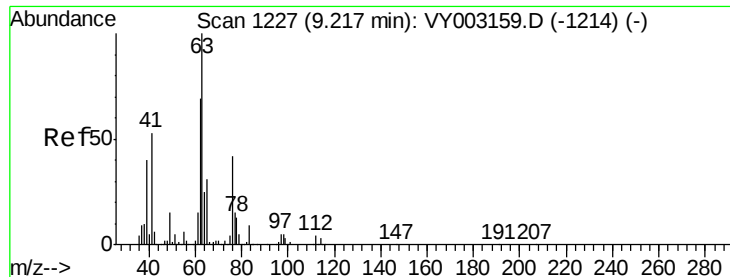
Delta R.T. -0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	130	Resp:	14861
Ion	Ratio	Lower	Upper
130	100		
95	81.0	0.0	193.8





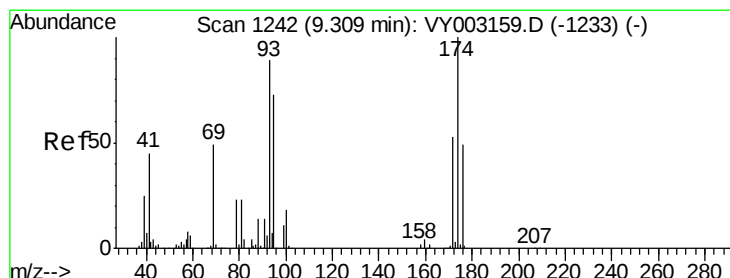
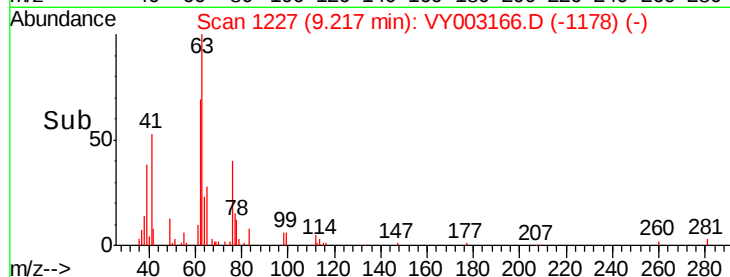
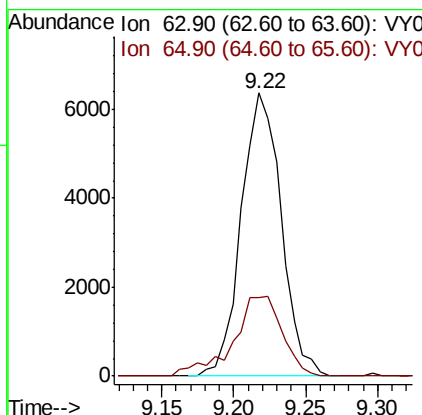
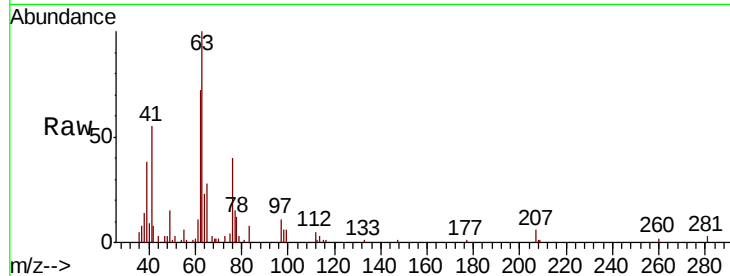
#45
 1,2-Dichloropropane
 Concen: 2.744 ug/l
 RT: 9.22 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
63	100		
65	27.5	25.0	37.4

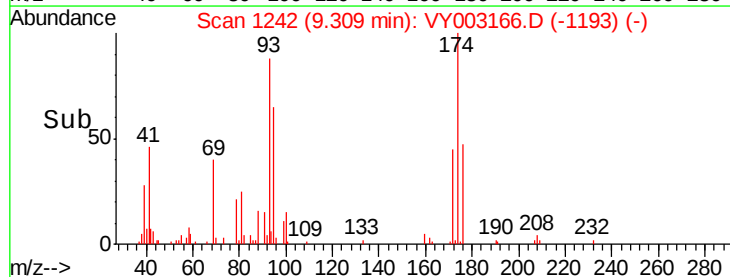
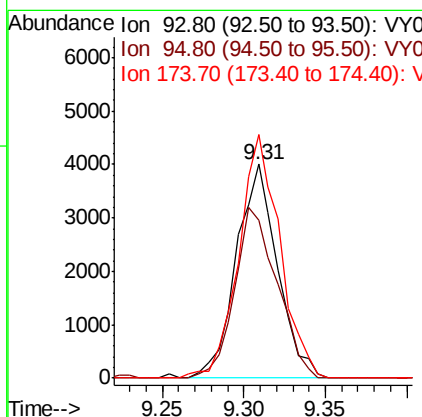
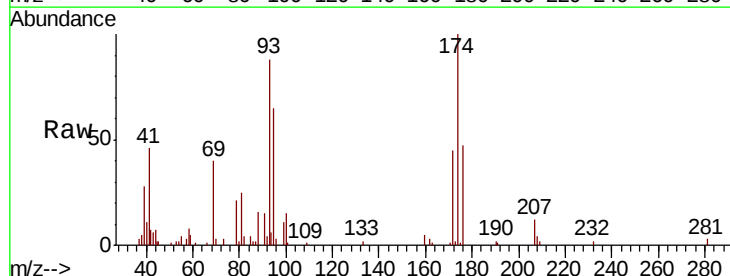
Manual Integrations
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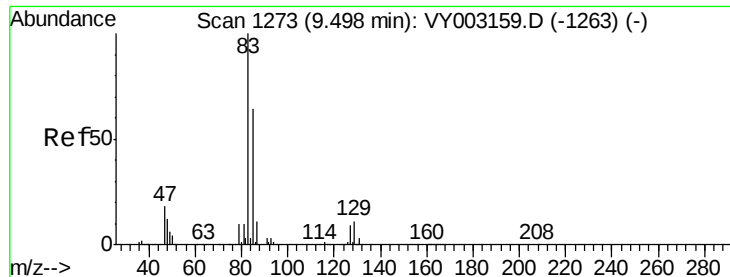
MMDadoda
 7/13/2020 10:47:51 AM



#46
 Dibromomethane
 Concen: 2.701 ug/l
 RT: 9.31 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.6	99.8
174	113.3	90.2	135.4





#47

Bromodichloromethane

Concen: 2.570 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

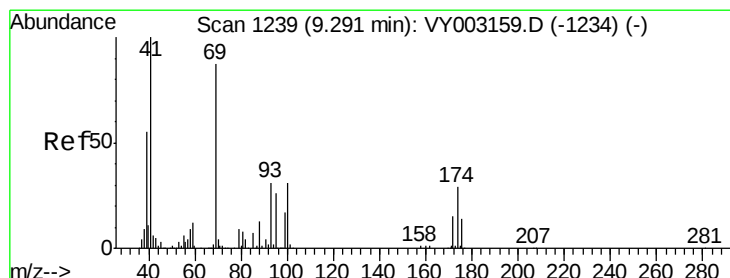
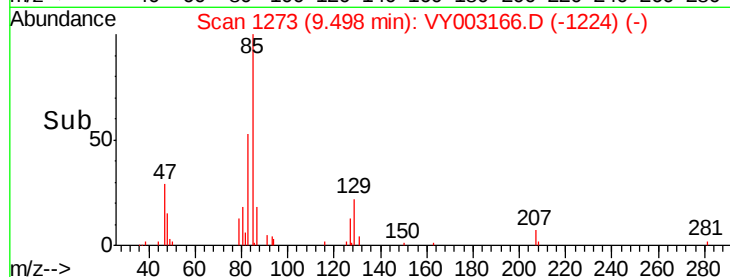
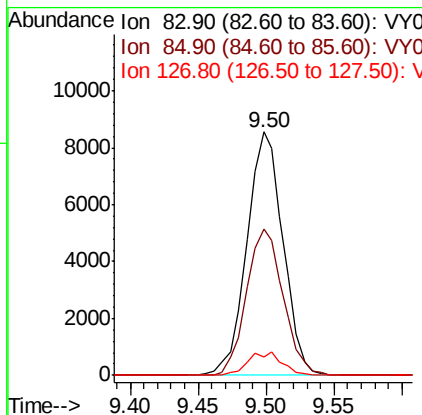
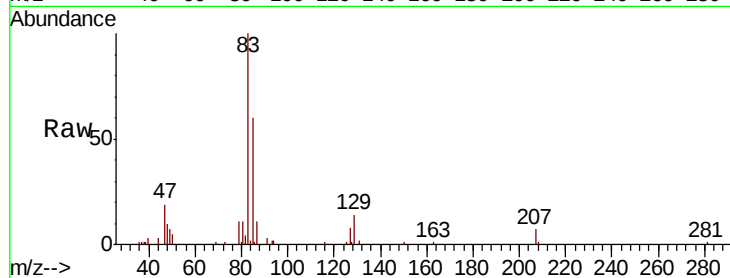
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	83	Resp:	15892
Ion Ratio	Lower	Upper	
83	100		
85	60.4	50.9	76.3
127	7.6	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.630 ug/l

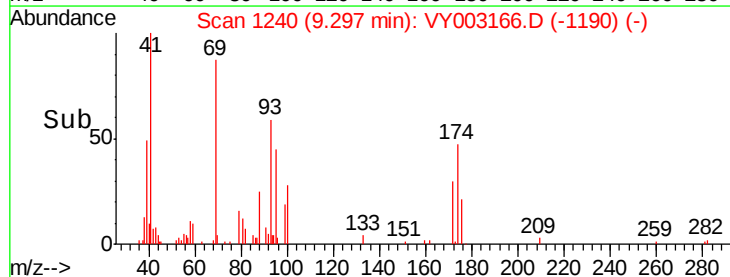
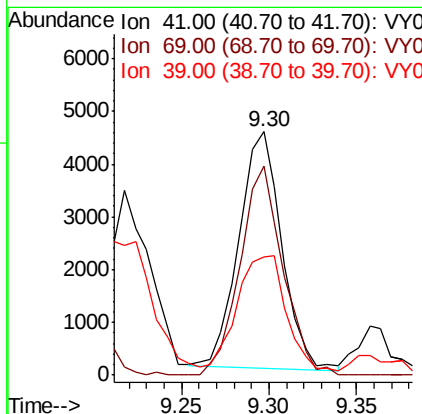
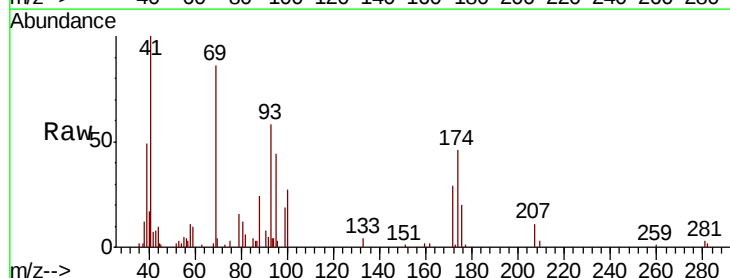
RT: 9.30 min Scan# 1240

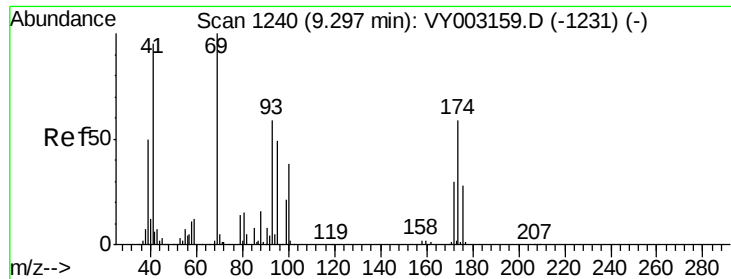
Delta R.T. 0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	41	Resp:	7659
Ion Ratio	Lower	Upper	
41	100		
69	88.3	74.5	111.7
39	60.9	47.5	71.3





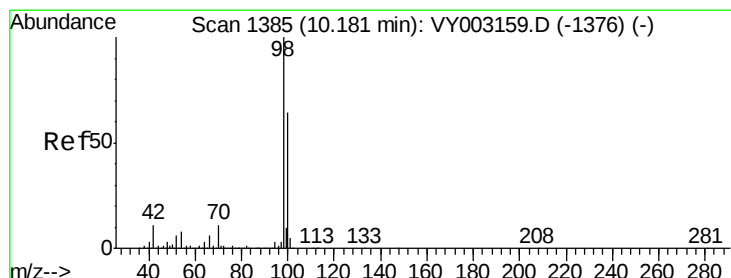
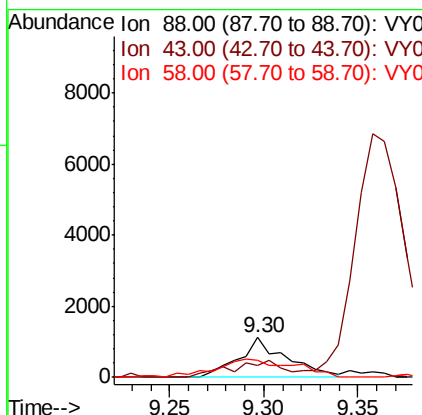
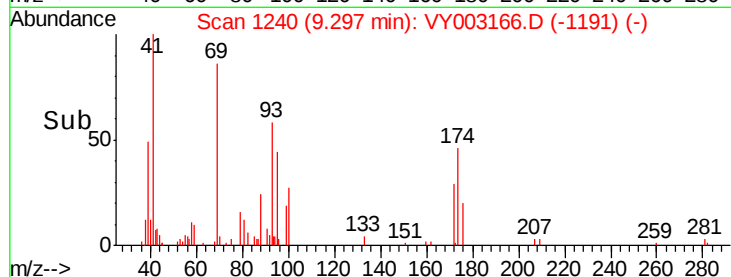
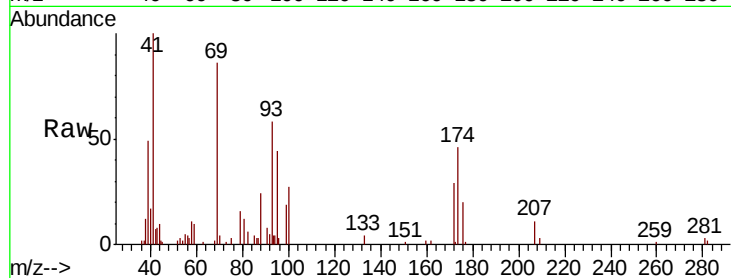
#49
1,4-Dioxane
Concen: 59.782 ug/l
RT: 9.30 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	44.6	25.6	38.4#
58	77.5	47.8	71.6#

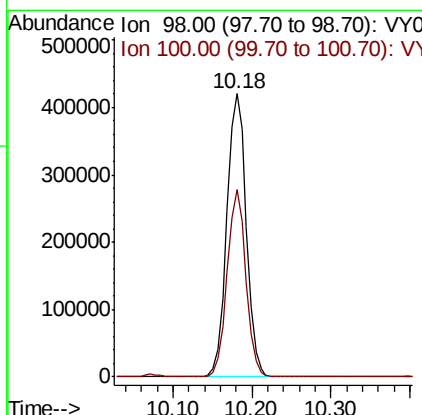
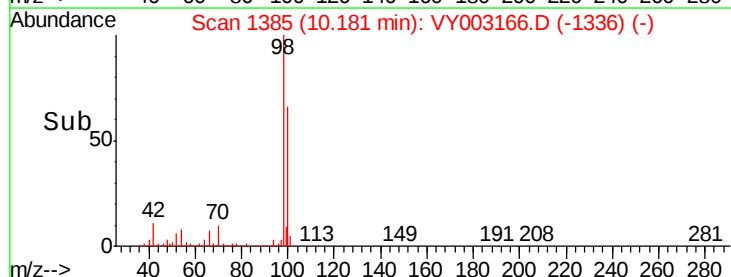
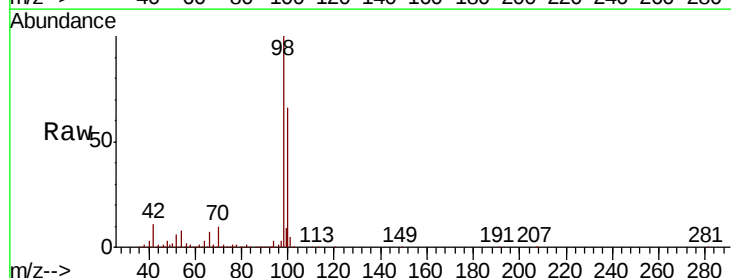
Manual Integrations
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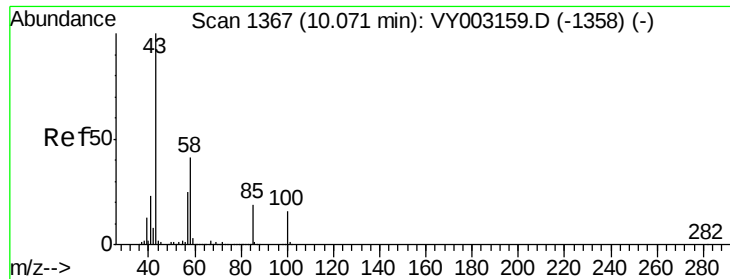
MMDadoda
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#50
Toluene-d8
Concen: 48.719 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.7	76.1





#51

4-Methyl-2-Pentanone

Concen: 12.612 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 43 Resp: 42702

Ion Ratio Lower Upper

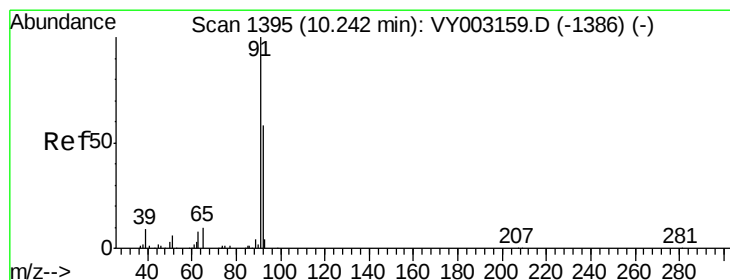
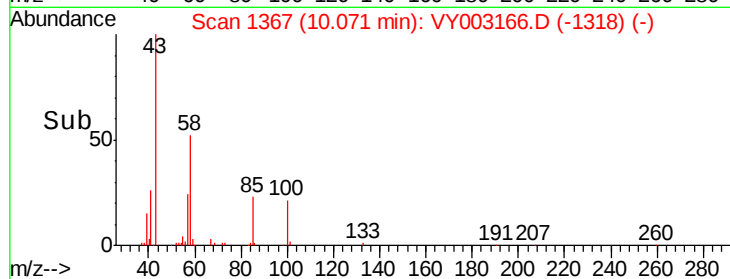
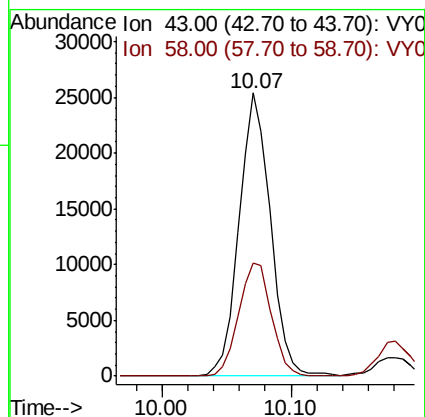
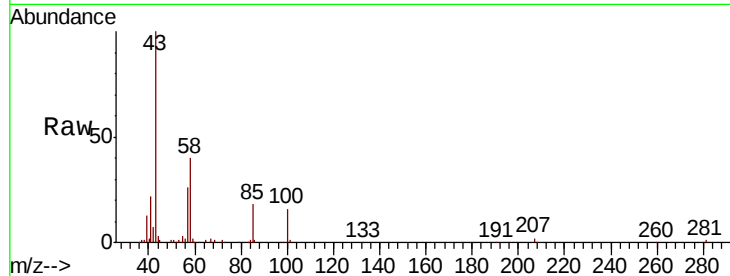
43 100

58 41.5 32.7 49.1

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#52

Toluene

Concen: 2.699 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VY003166.D

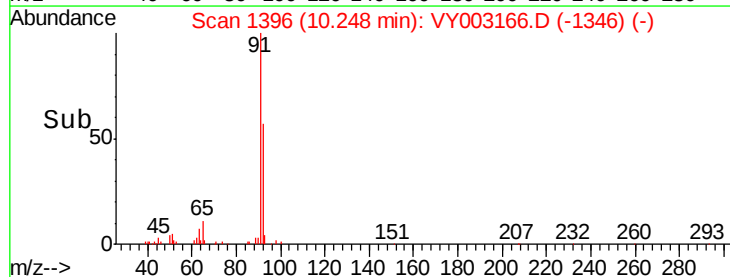
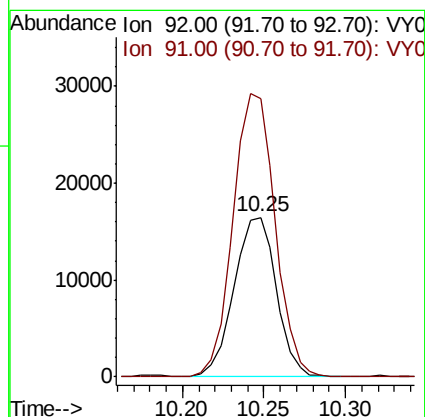
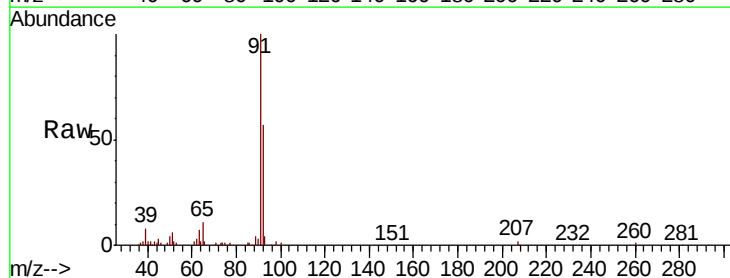
Acq: 10 Jul 2020 16:20

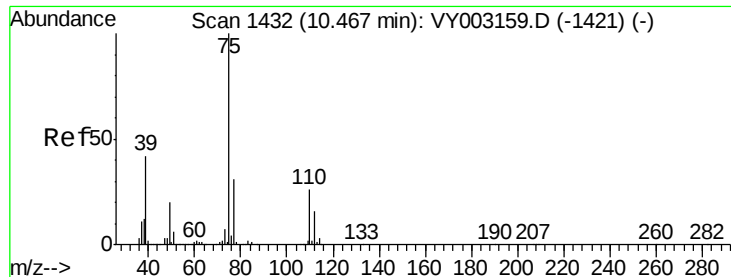
Tgt Ion: 92 Resp: 29679

Ion Ratio Lower Upper

92 100

91 176.6 139.7 209.5





#53

t-1,3-Dichloropropene

Concen: 2.630 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 75 Resp: 16855

Ion Ratio Lower Upper

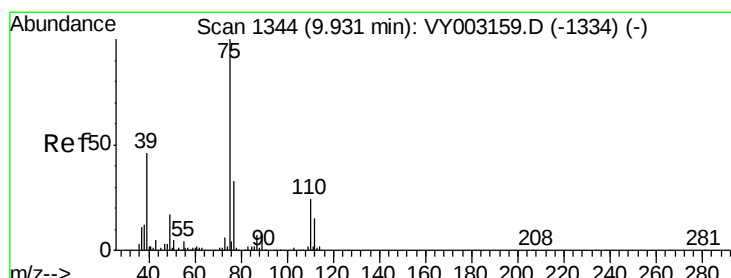
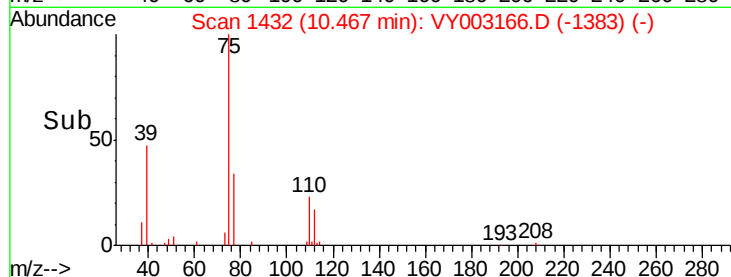
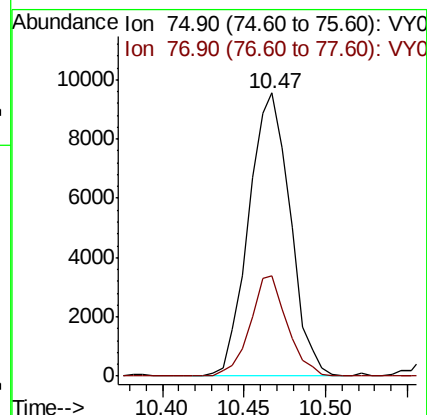
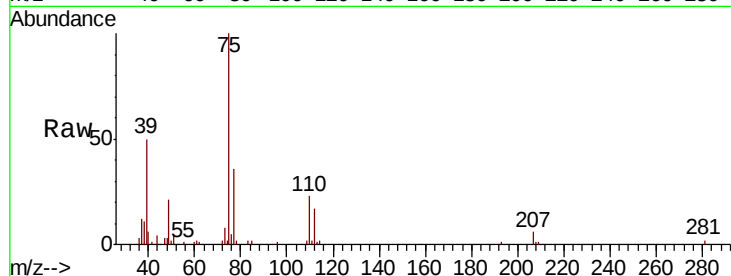
75 100

77 35.6 25.2 37.8

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 2.475 ug/l

RT: 9.92 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

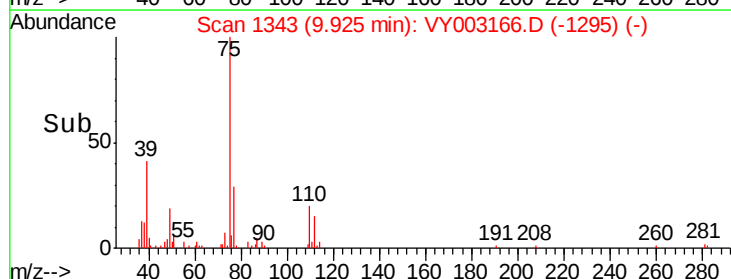
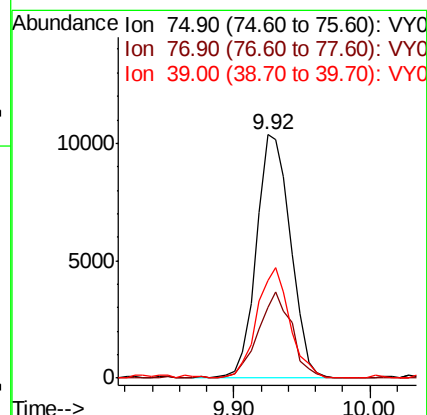
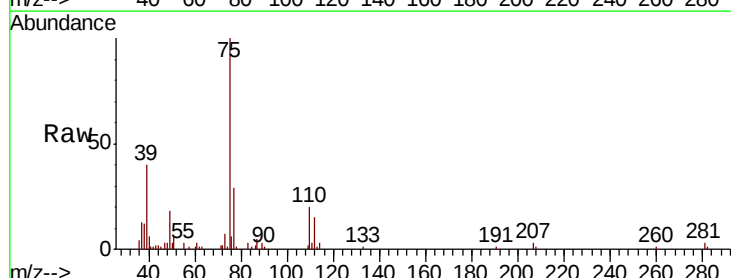
Tgt Ion: 75 Resp: 18275

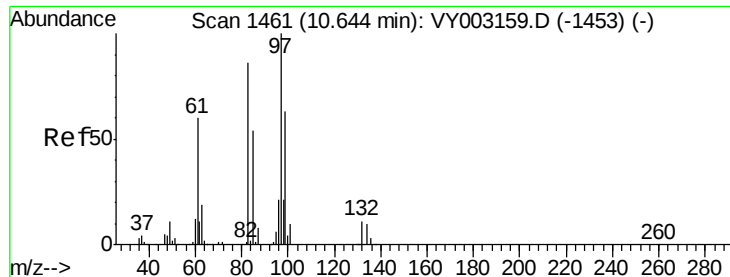
Ion Ratio Lower Upper

75 100

77 29.2 26.7 40.1

39 40.2 37.0 55.6





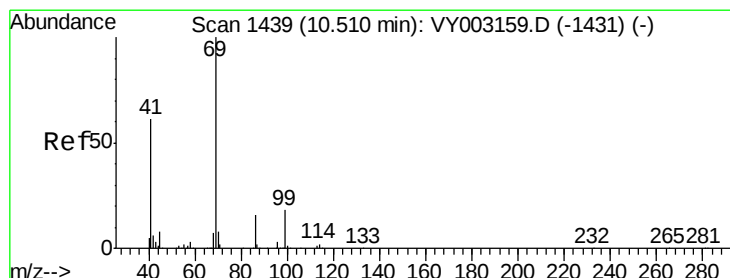
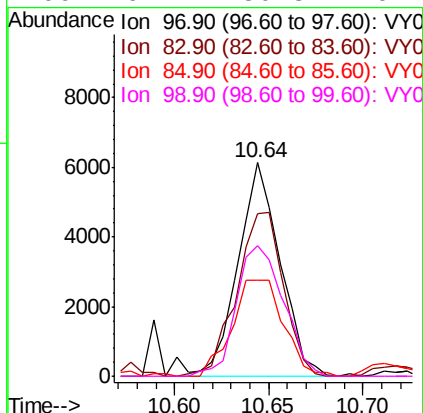
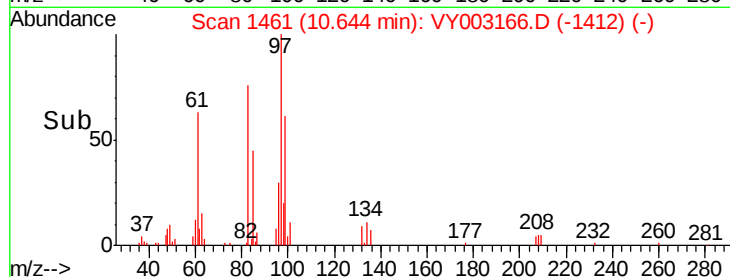
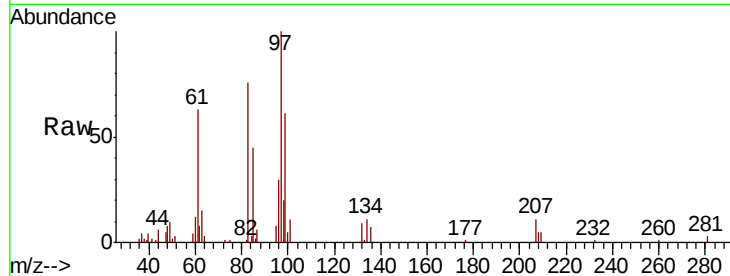
#55
1,1,2-Trichloroethane
Concen: 2.568 ug/l
RT: 10.64 min Scan# 1461
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion:	97	Resp:	9462
Ion	Ratio	Lower	Upper
97	100		
83	76.2	68.8	103.2
85	44.7	43.1	64.7
99	61.1	50.8	76.2

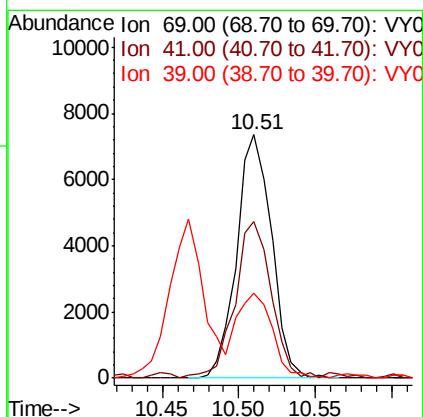
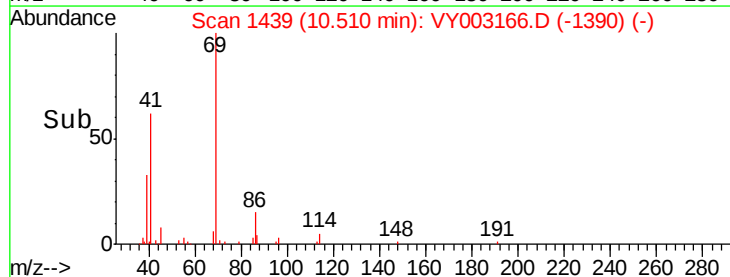
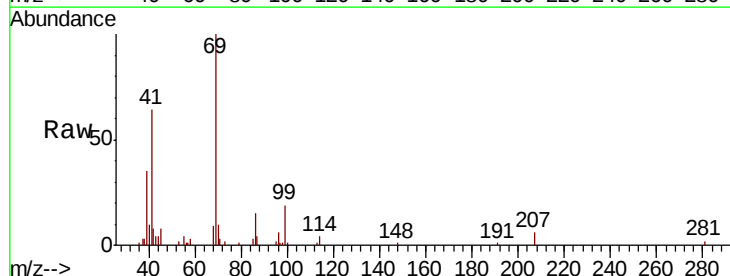
Manual Integrations
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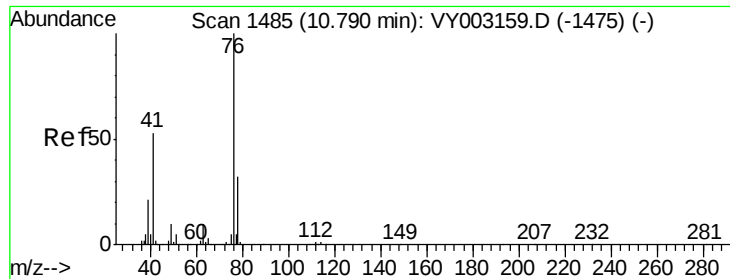
MMDadoda
7/13/2020 10:47:51 AM



#56
Ethyl methacrylate
Concen: 2.322 ug/l
RT: 10.51 min Scan# 1439
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion:	69	Resp:	11634
Ion	Ratio	Lower	Upper
69	100		
41	67.0	50.0	75.0
39	35.7	27.6	41.4





#57

1,3-Dichloropropane

Concen: 2.553 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 76 Resp: 15950

Ion Ratio Lower Upper

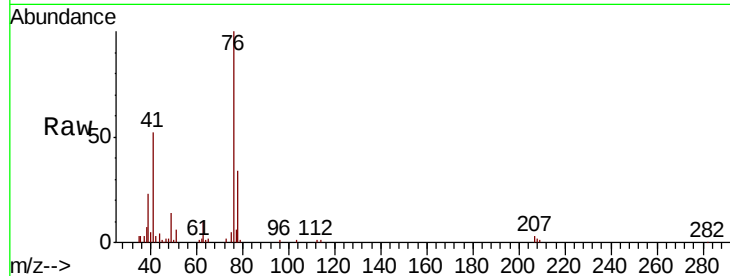
76 100

78 33.6 26.0 39.0

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Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

12000

10000

8000

6000

4000

2000

0

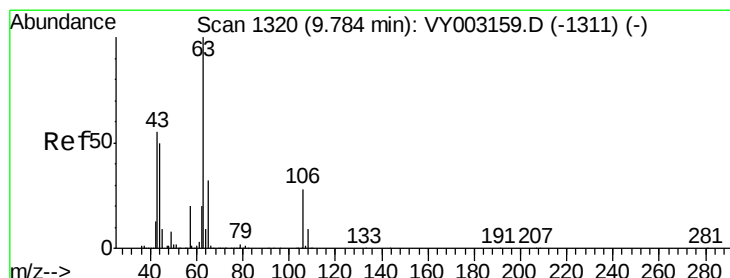
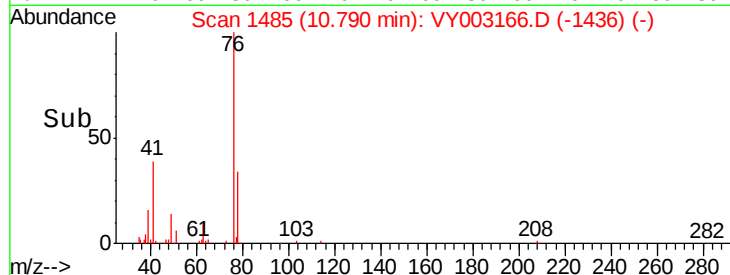
10.79

10.75

10.80

10.85

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 12.161 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VY003166.D

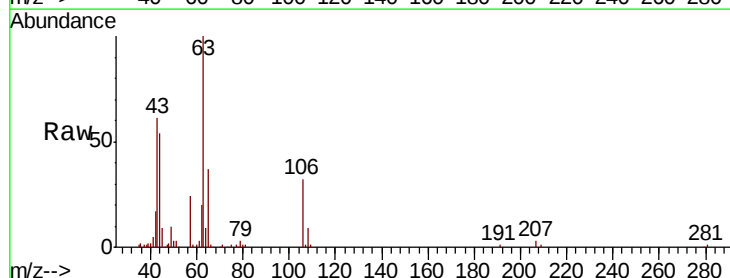
Acq: 10 Jul 2020 16:20

Tgt Ion: 63 Resp: 31071

Ion Ratio Lower Upper

63 100

106 30.9 22.9 34.3



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

20000

15000

10000

5000

0

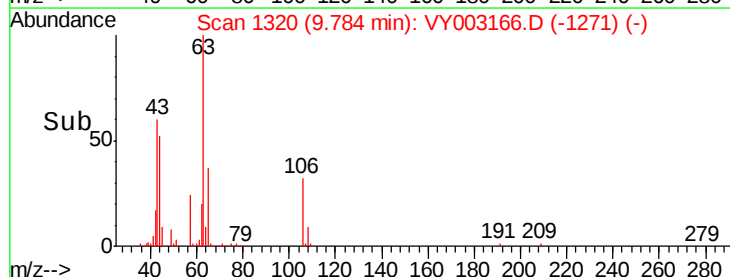
9.78

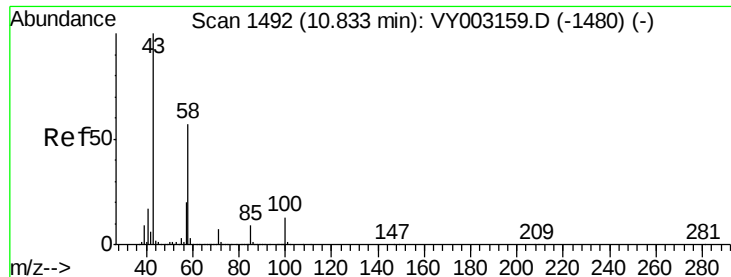
9.75

9.80

9.85

Time-->





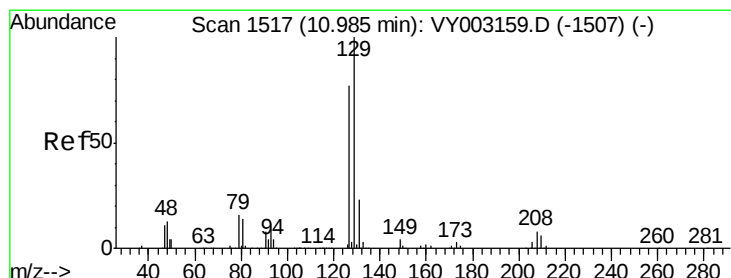
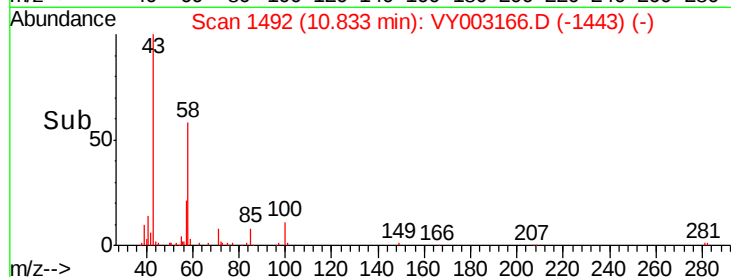
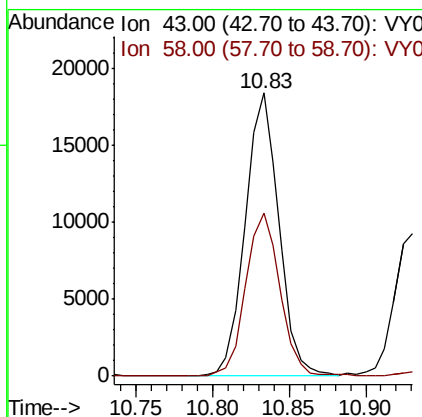
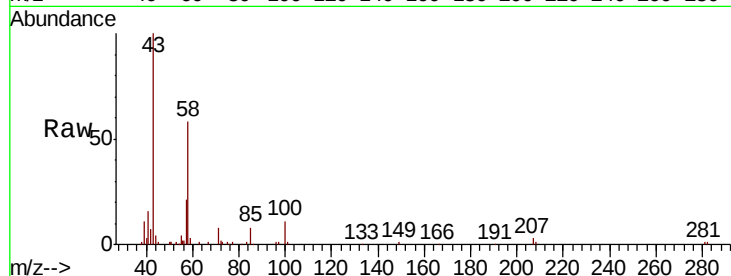
#59
2-Hexanone
Concen: 11.910 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion: 43 Resp: 28149
Ion Ratio Lower Upper
43 100
58 58.8 28.3 85.0

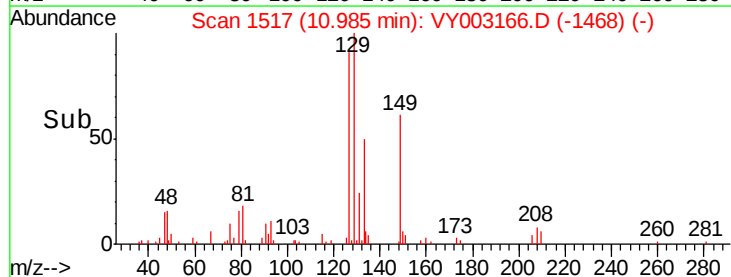
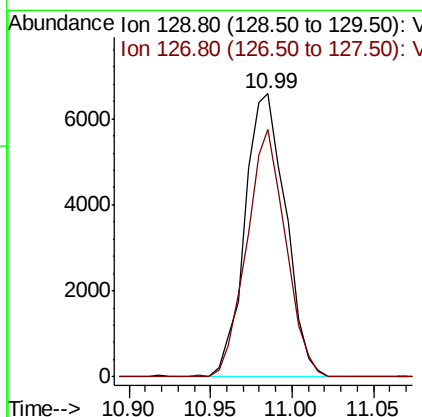
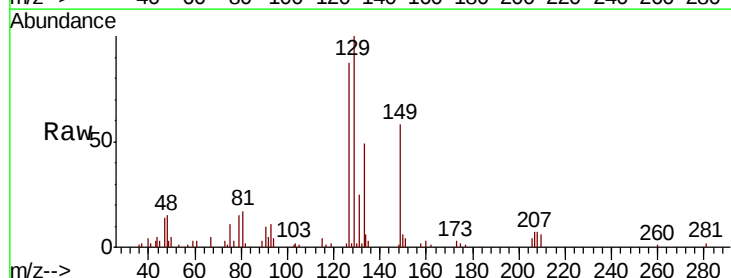
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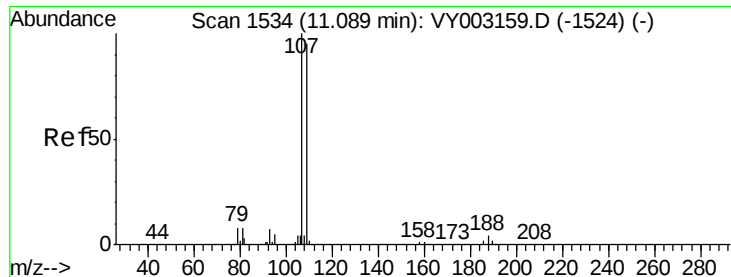
MMDadoda
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#60
Dibromochloromethane
Concen: 2.464 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion: 129 Resp: 11422
Ion Ratio Lower Upper
129 100
127 83.5 38.5 115.5





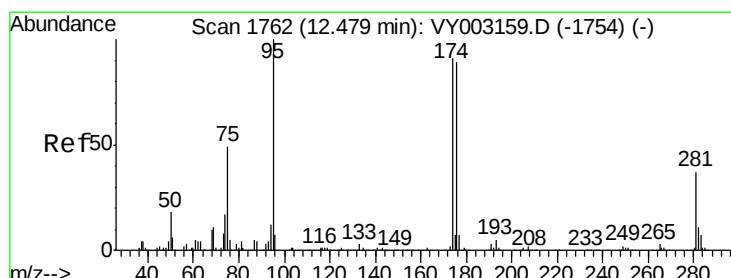
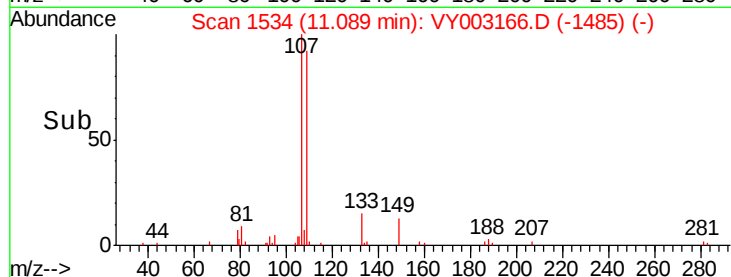
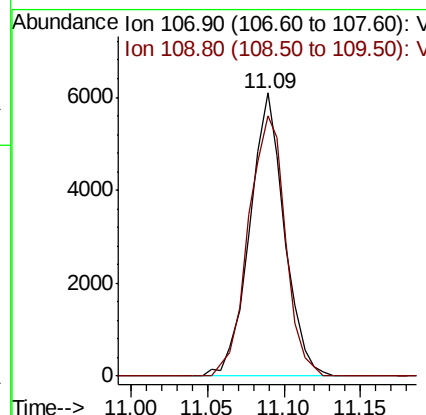
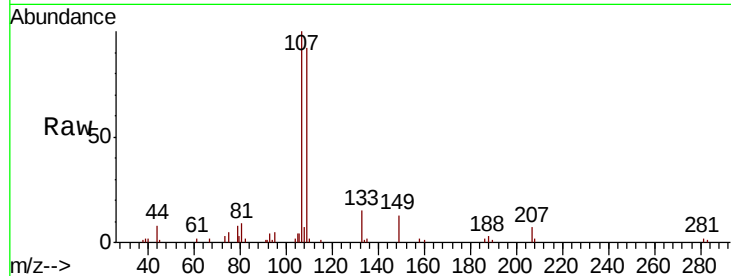
#61
 1,2-Dibromoethane
 Concen: 2.629 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.2	75.6	113.4

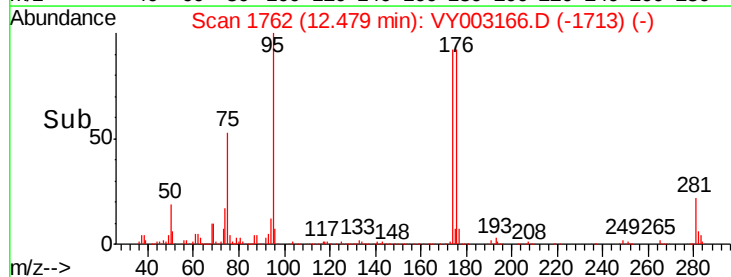
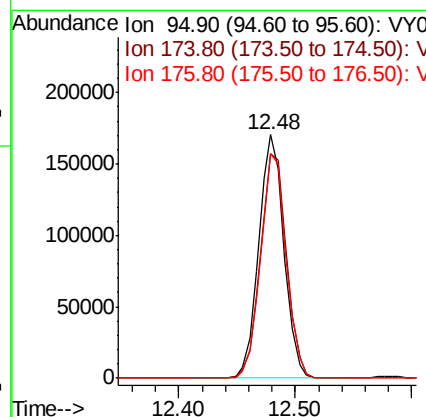
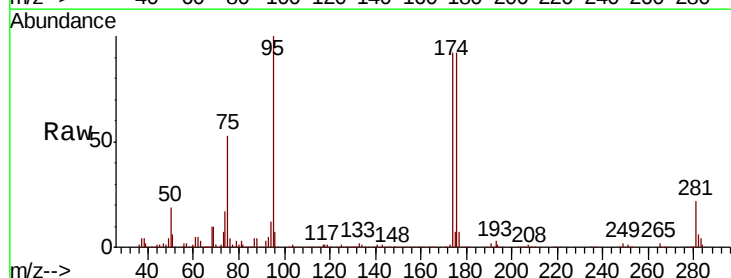
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MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 48.041 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.6	0.0	190.6
176	93.3	0.0	186.4





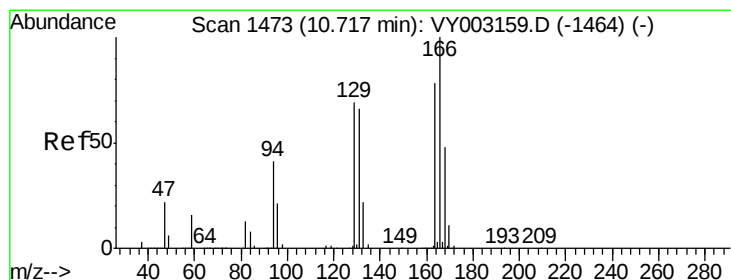
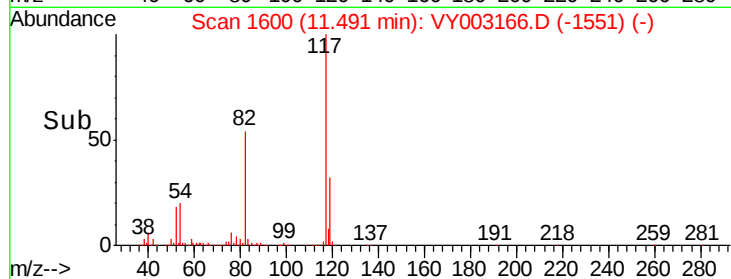
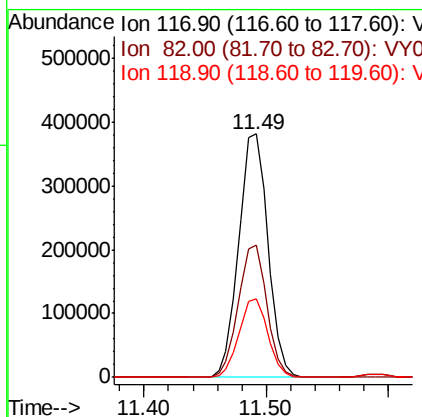
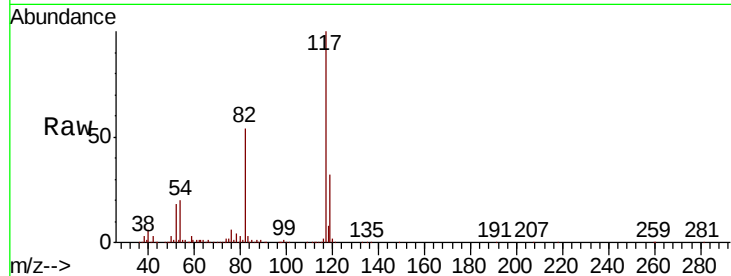
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	632651		
82	54.1	42.0	63.0	
119	32.4	25.5	38.3	

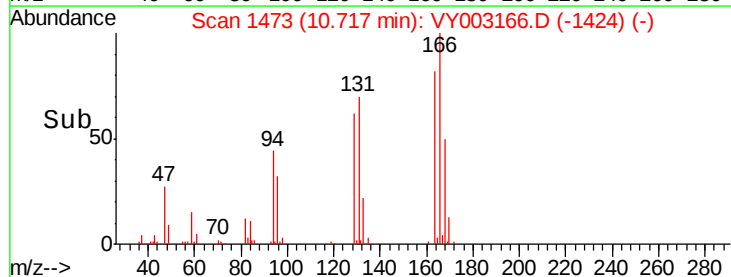
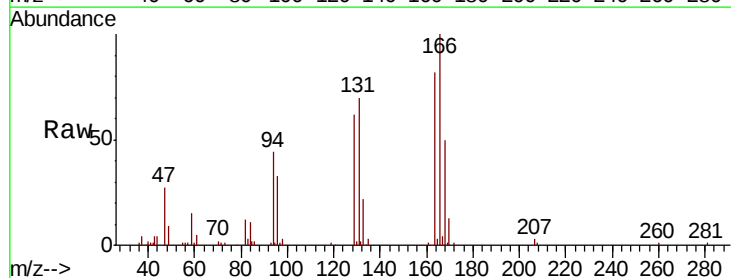
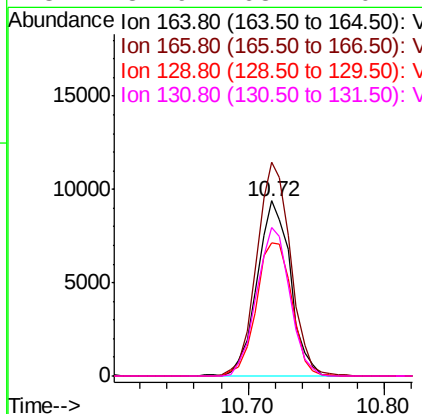
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#64
Tetrachloroethene
Concen: 2.867 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	16174		
166	121.8	102.9	154.3	
129	76.0	71.4	107.2	
131	84.9	68.1	102.1	





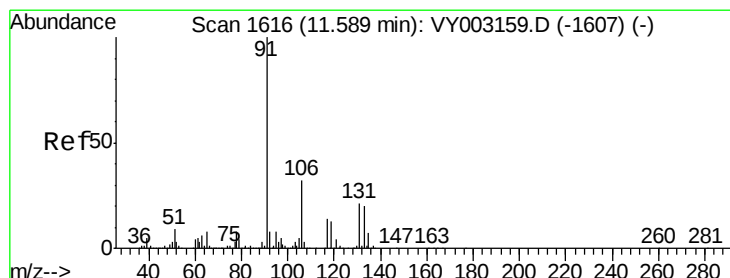
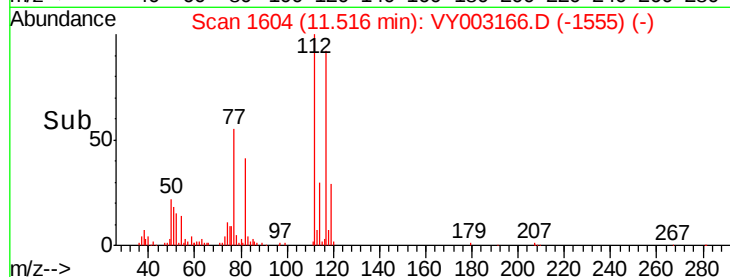
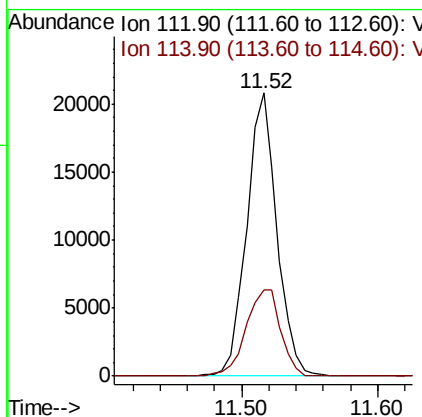
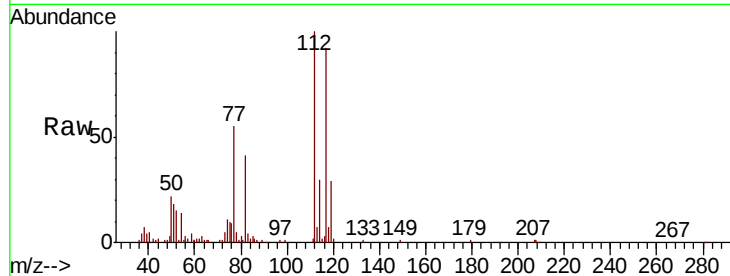
#65
Chlorobenzene
Concen: 2.643 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion:112 Resp: 32216
Ion Ratio Lower Upper
112 100
114 30.5 24.7 37.1

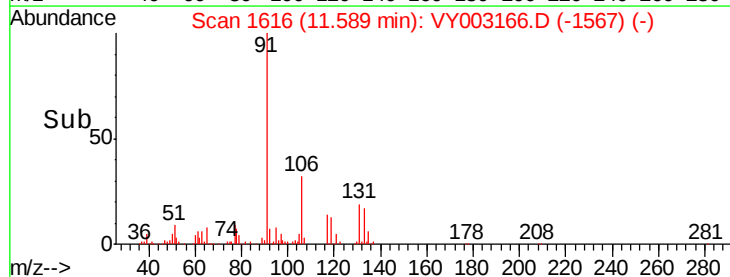
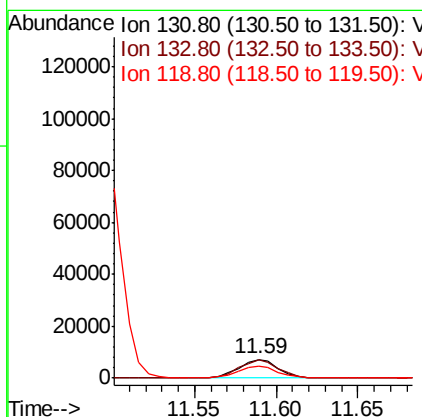
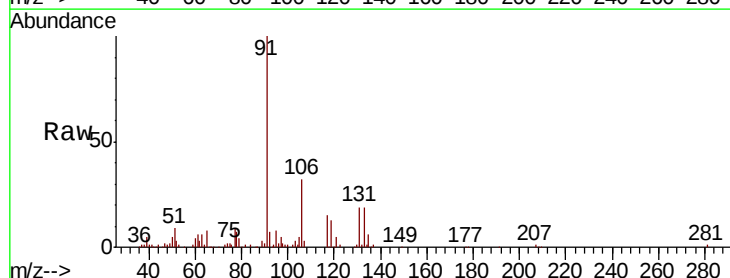
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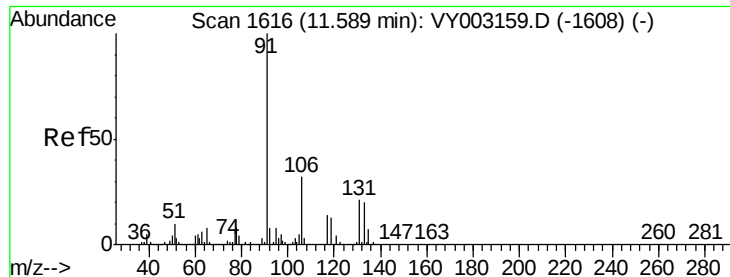
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.505 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion:131 Resp: 11859
Ion Ratio Lower Upper
131 100
133 100.9 48.0 144.0
119 67.1 32.4 97.0





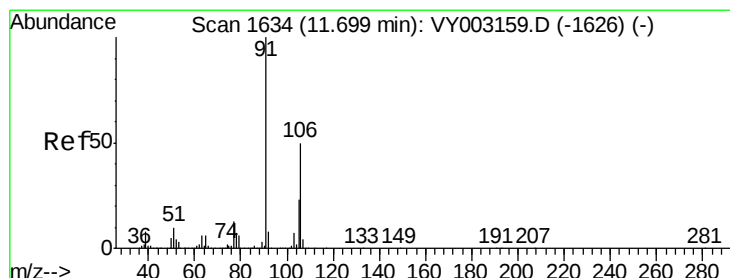
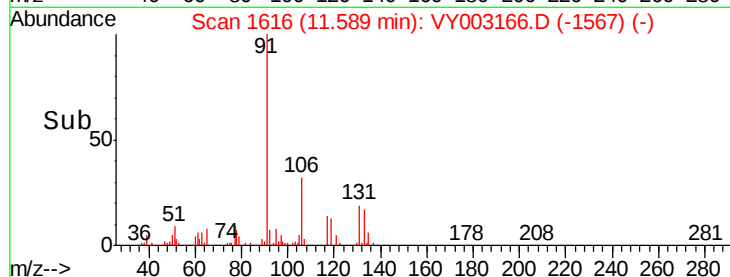
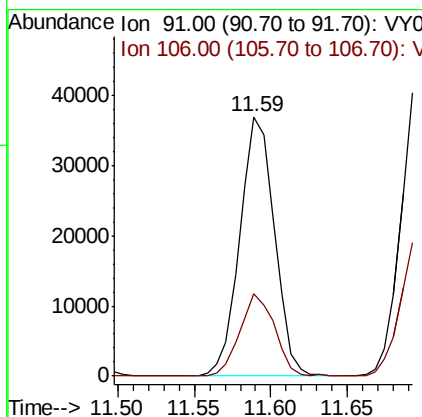
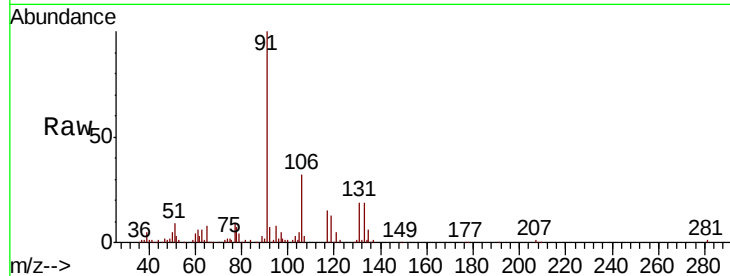
#67
Ethyl Benzene
Concen: 2.669 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion: 91 Resp: 58083
Ion Ratio Lower Upper
91 100
106 31.8 25.5 38.3

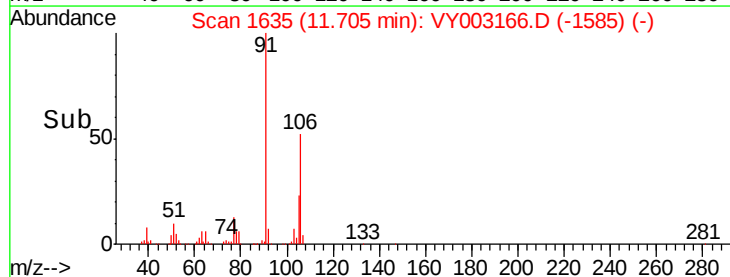
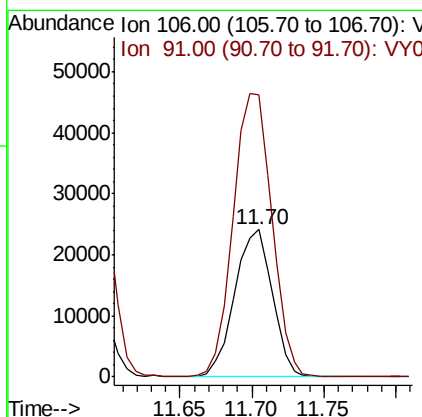
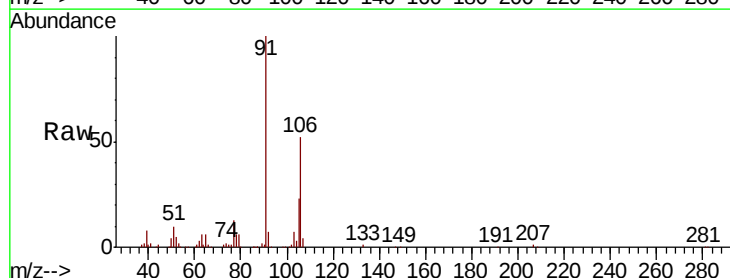
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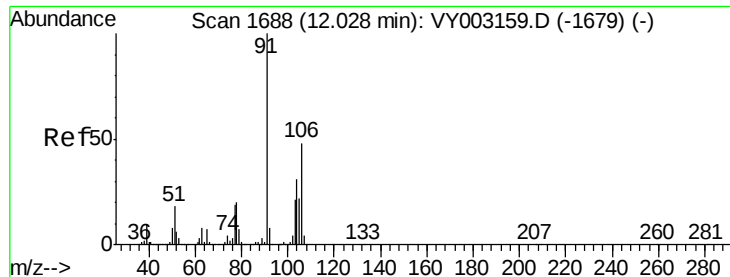
MMDadoda
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#68
m/p-Xylenes
Concen: 5.315 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion: 106 Resp: 43885
Ion Ratio Lower Upper
106 100
91 198.4 159.0 238.6





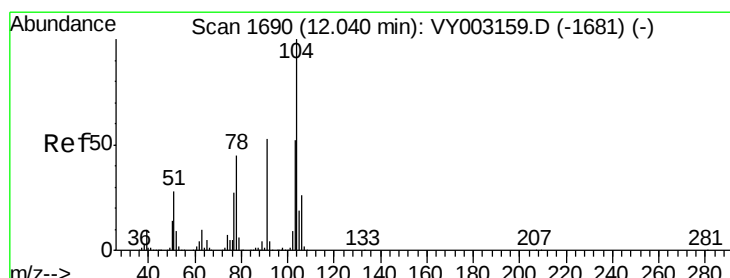
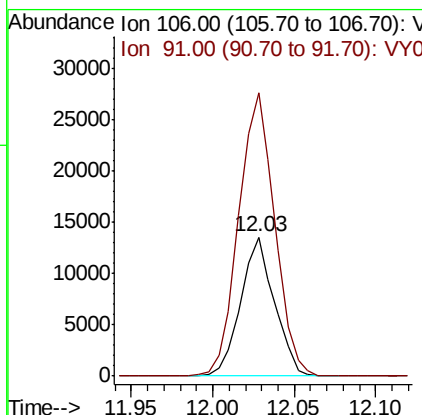
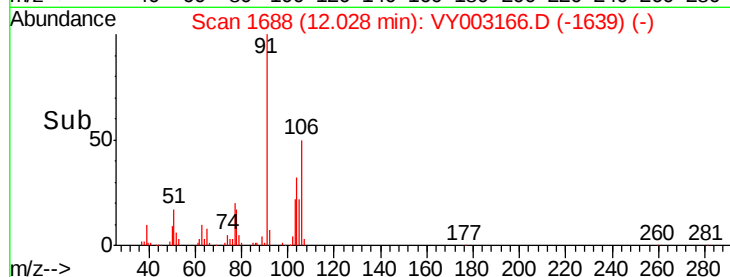
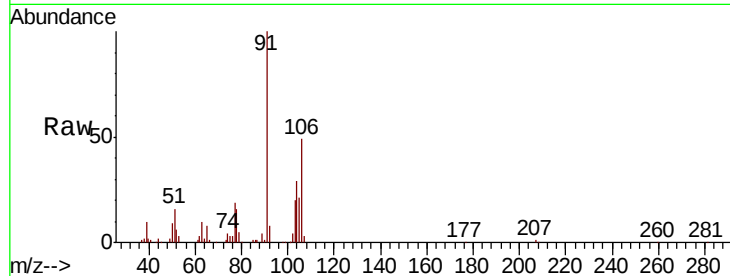
#69
o-Xylene
Concen: 2.536 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion:106 Resp: 19564
Ion Ratio Lower Upper
106 100
91 217.0 105.1 315.1

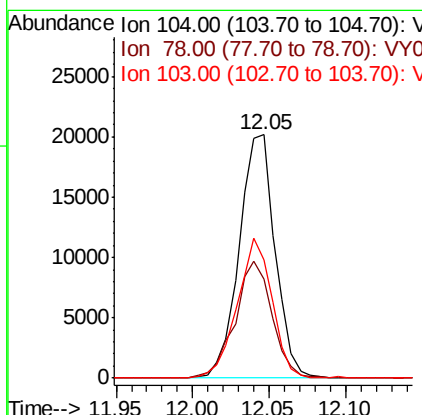
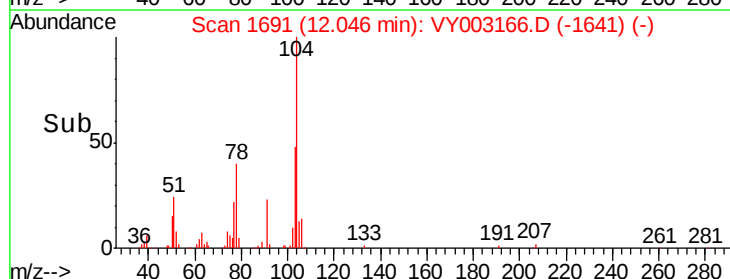
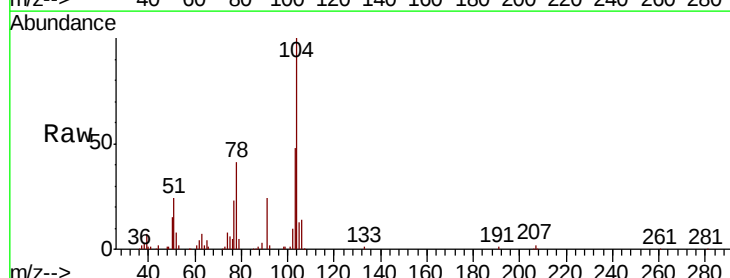
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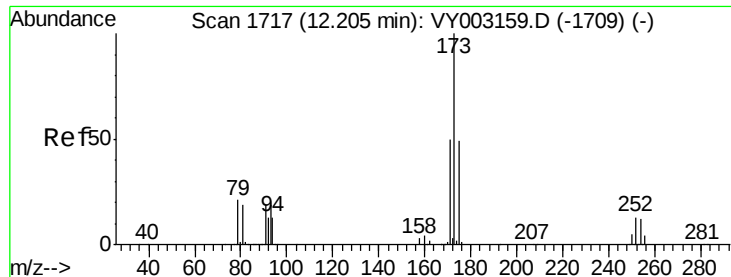
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#70
Styrene
Concen: 2.483 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion:104 Resp: 32767
Ion Ratio Lower Upper
104 100
78 49.7 38.5 57.7
103 55.7 43.9 65.9





#71

Bromoform

Concen: 2.577 ug/l

RT: 12.20 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

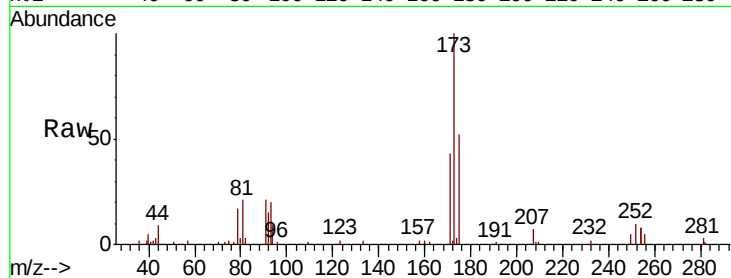
ClientSampleId :

MDL-SOIL-03-QT3-2020

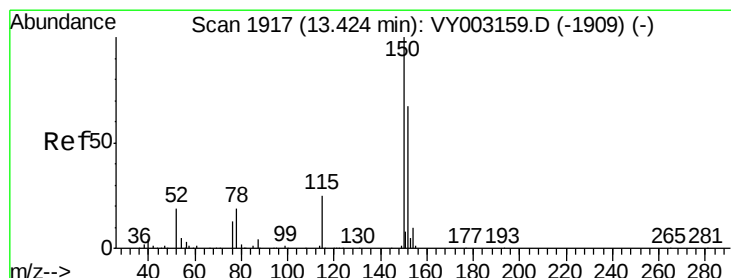
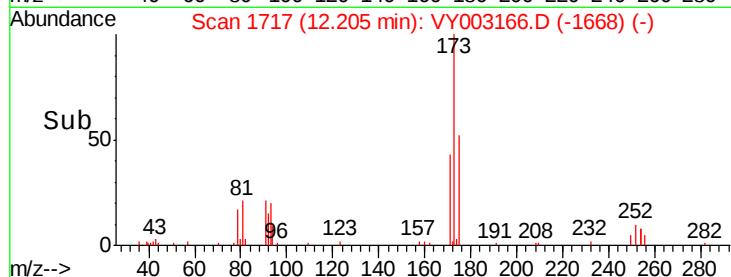
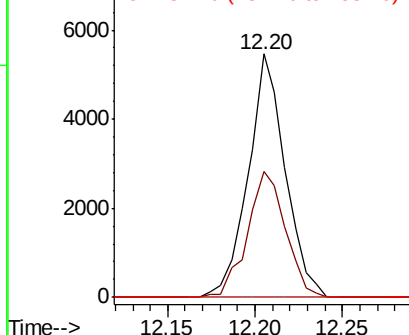
Tot Ion:	173	Resp:	8006
Ion Ratio	Lower	Upper	
173	100		
175	53.4	24.3	73.0
254	0.0	0.2	0.2#

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

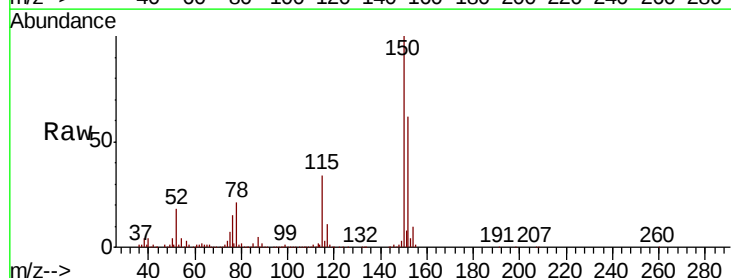
RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

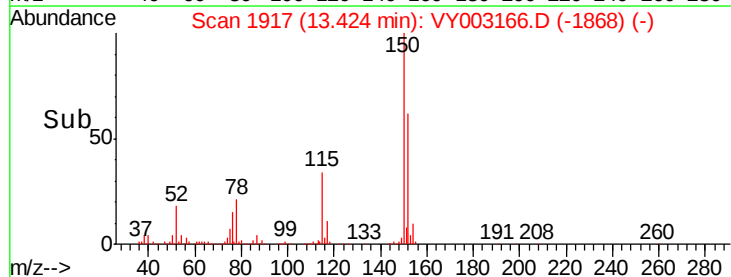
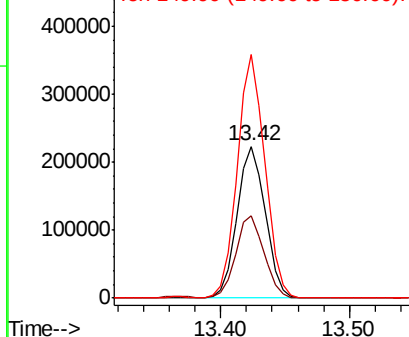
Lab File: VY003166.D

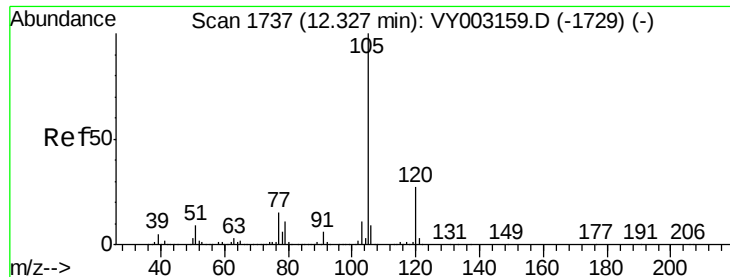
Acq: 10 Jul 2020 16:20

Tgt Ion:	152	Resp:	337358
Ion Ratio	Lower	Upper	
152	100		
115	54.5	26.9	80.7
150	157.5	0.0	338.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.614 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 105 Resp: 56202

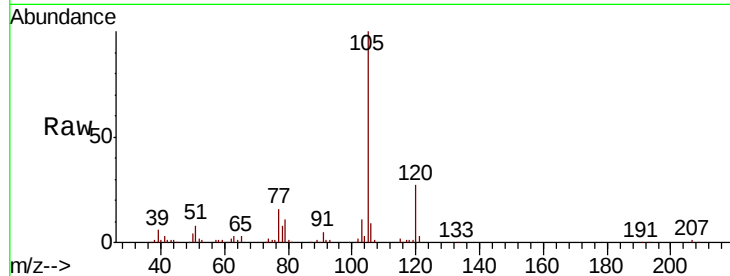
Ion Ratio Lower Upper

105 100

120 27.1 13.4 40.2

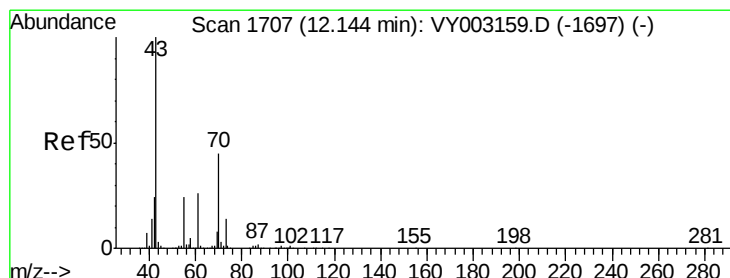
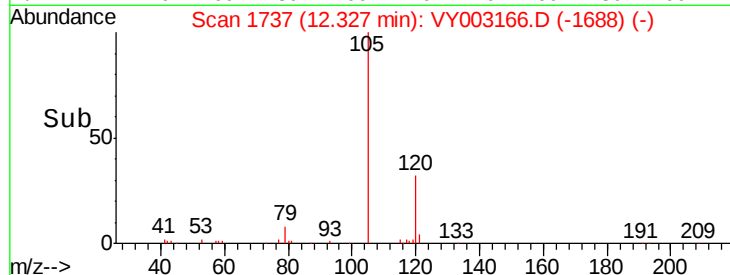
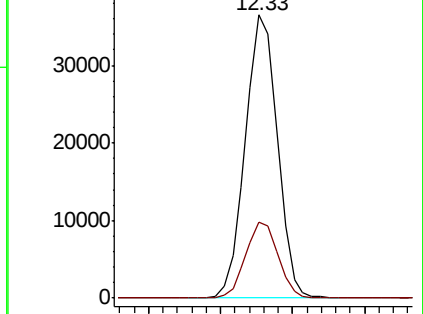
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.476 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion: 43 Resp: 14935

Ion Ratio Lower Upper

43 100

70 41.6 35.6 53.4

55 25.3 19.4 29.2

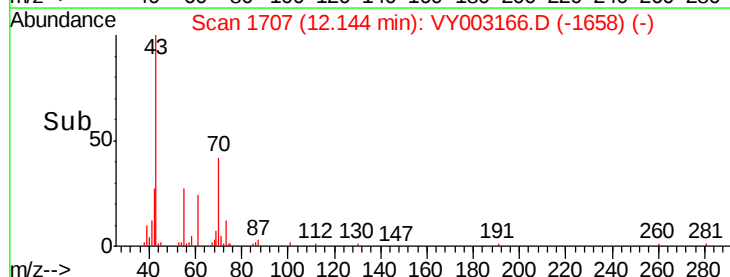
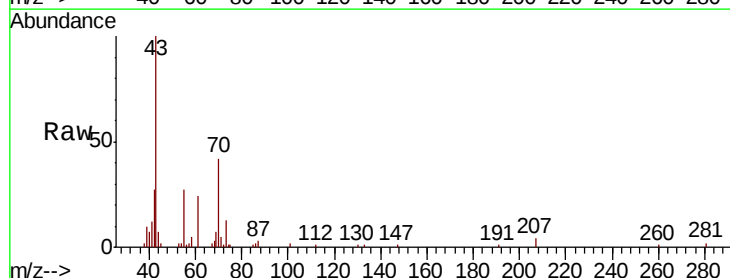
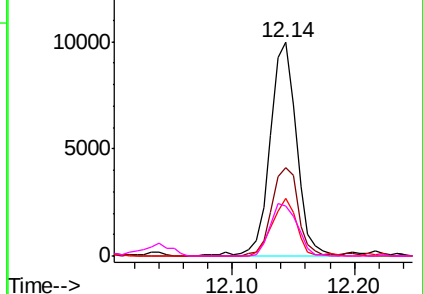
61 25.3 20.8 31.2

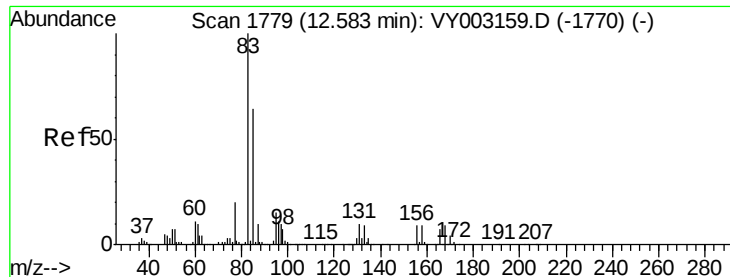
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.698 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

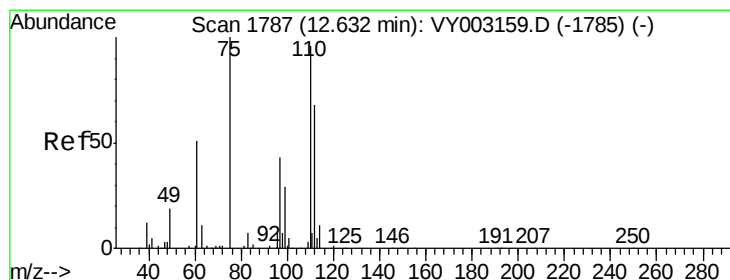
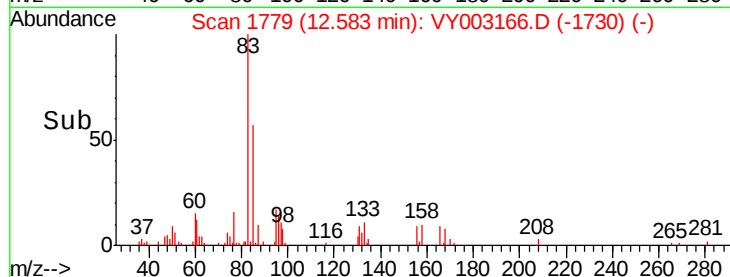
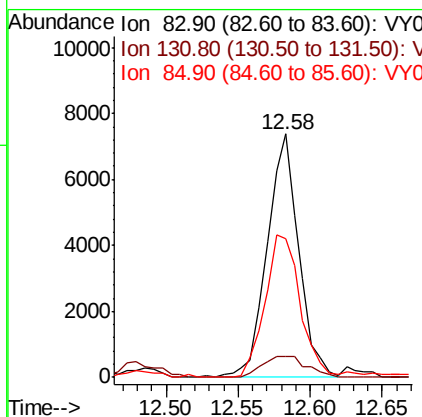
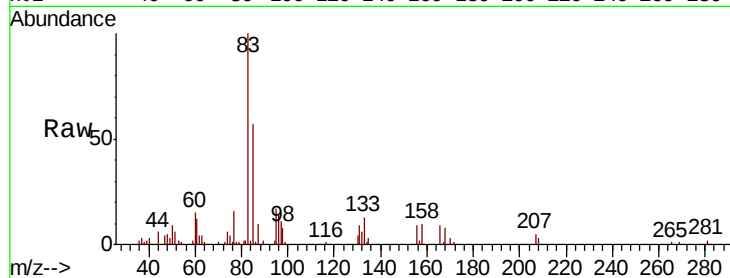
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	83	Resp:	11204
Ion Ratio	Lower	Upper	
83	100		
131	12.2	5.2	15.6
85	65.4	32.0	96.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.809 ug/l m

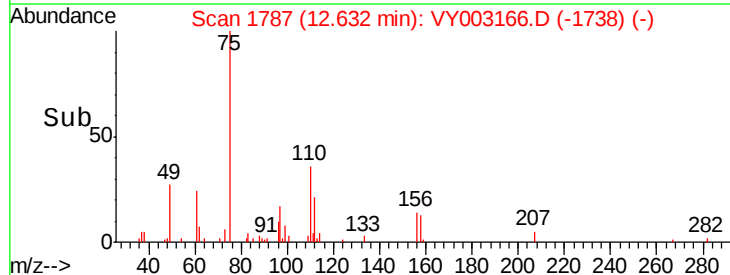
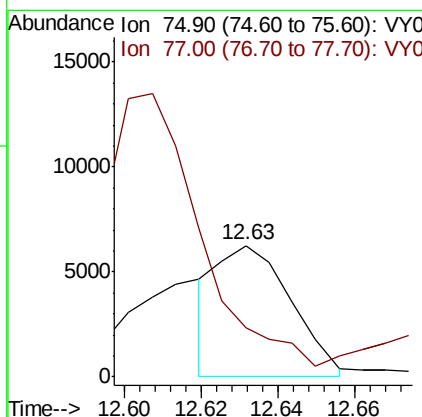
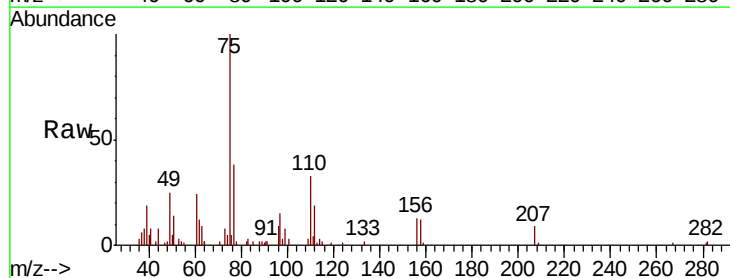
RT: 12.63 min Scan# 1787

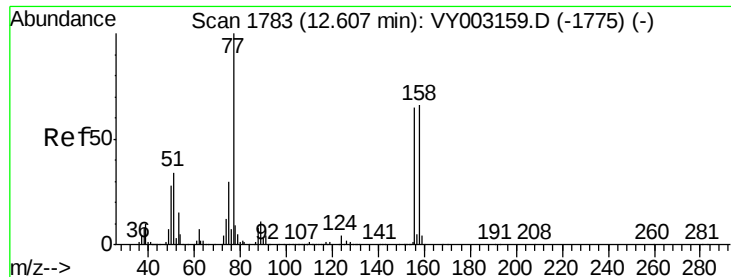
Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	75	Resp:	8387
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.675 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

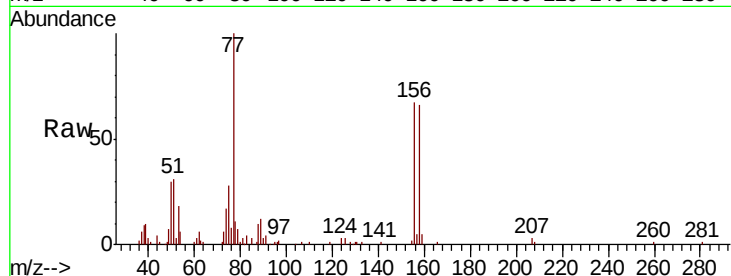
ClientSampleId :

MDL-SOIL-03-QT3-2020

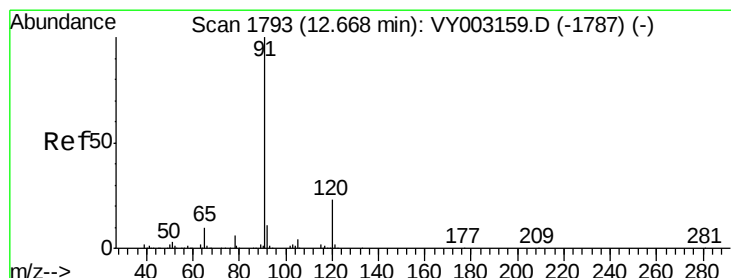
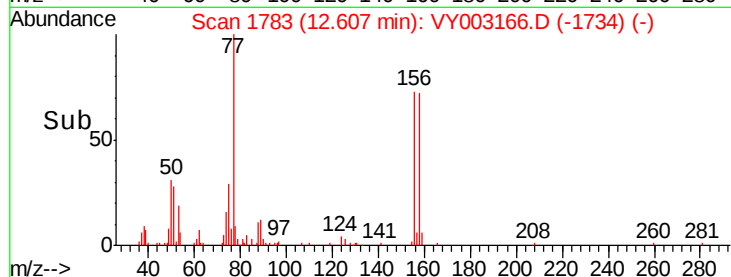
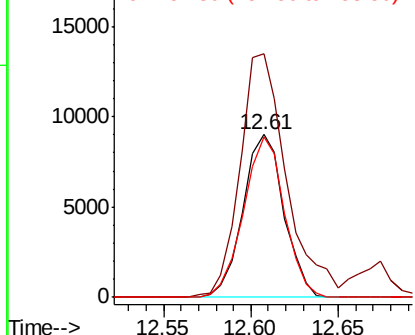
Tot Ion:	156	Resp:	14657
Ion Ratio	Lower	Upper	
156	100		
77	170.4	86.6	259.7
158	98.1	49.4	148.0

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



#78

n-propylbenzene

Concen: 2.694 ug/l

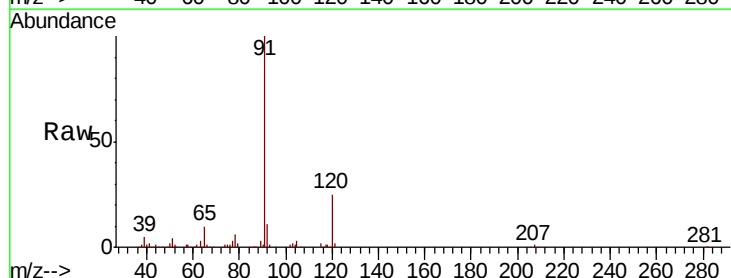
RT: 12.67 min Scan# 1793

Delta R.T. -0.00 min

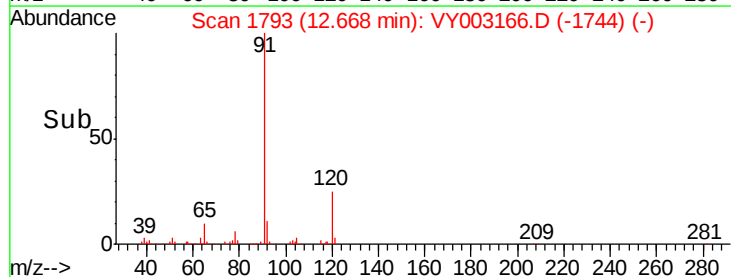
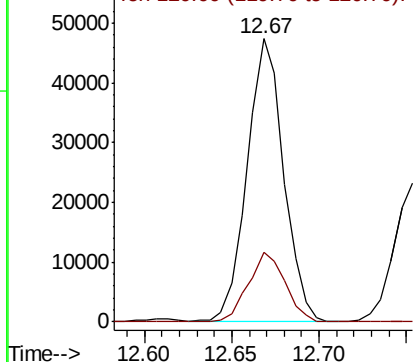
Lab File: VY003166.D

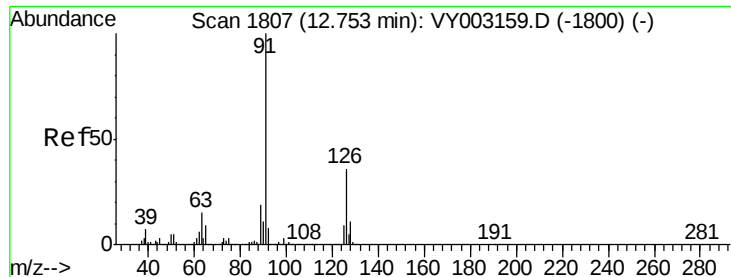
Acq: 10 Jul 2020 16:20

Tgt Ion:	91	Resp:	68283
Ion Ratio	Lower	Upper	
91	100		
120	25.1	11.7	35.1



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





#79

2-Chlorotoluene

Concen: 2.613 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion: 91 Resp: 36946

Ion Ratio Lower Upper

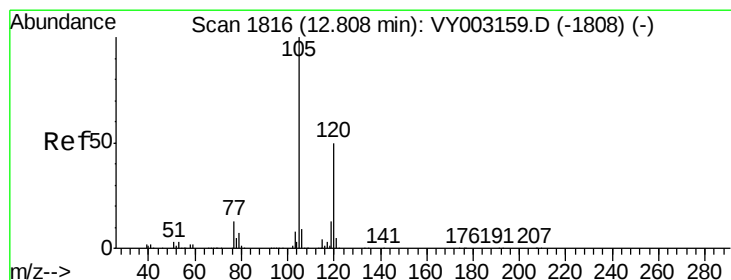
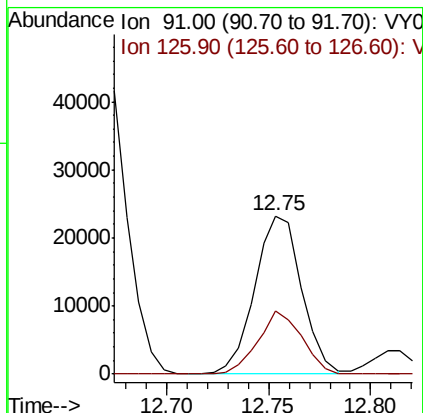
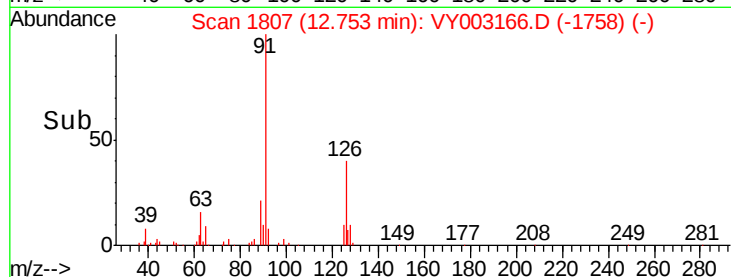
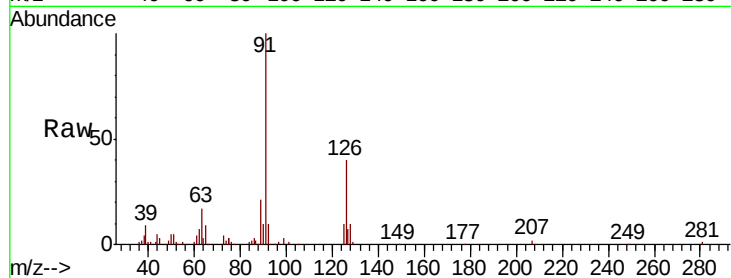
91 100

126 37.3 17.6 52.9

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 2.613 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003166.D

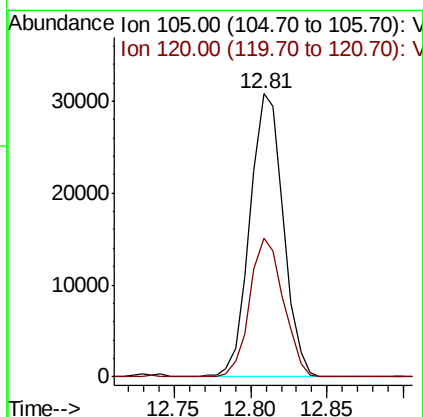
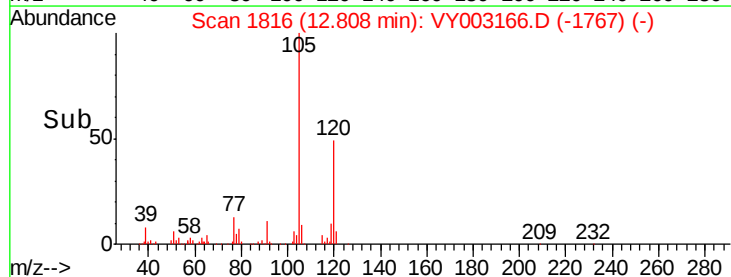
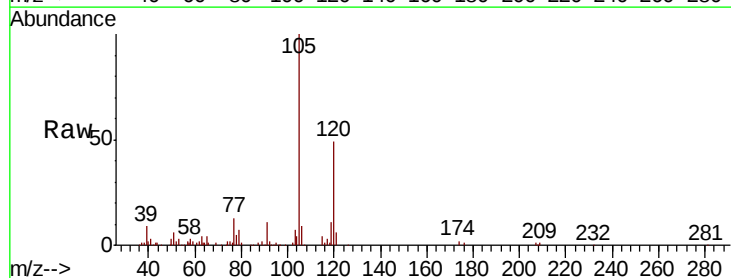
Acq: 10 Jul 2020 16:20

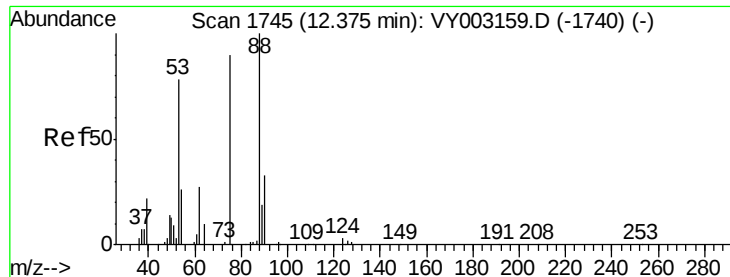
Tgt Ion: 105 Resp: 46816

Ion Ratio Lower Upper

105 100

120 49.3 24.9 74.6





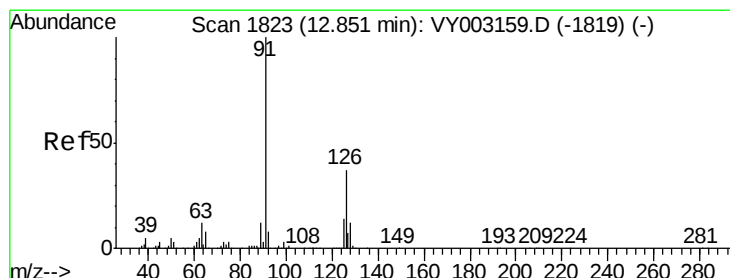
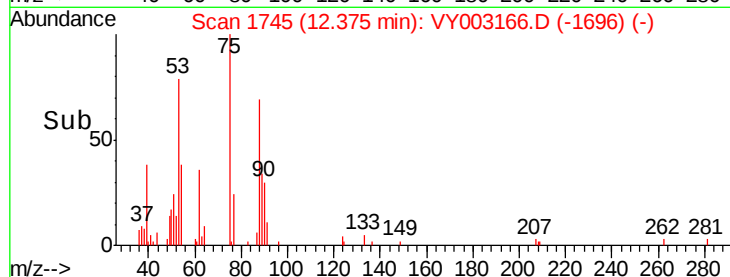
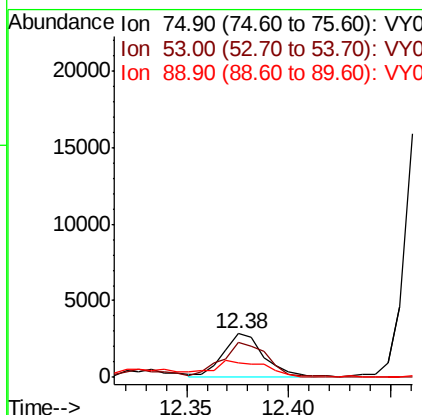
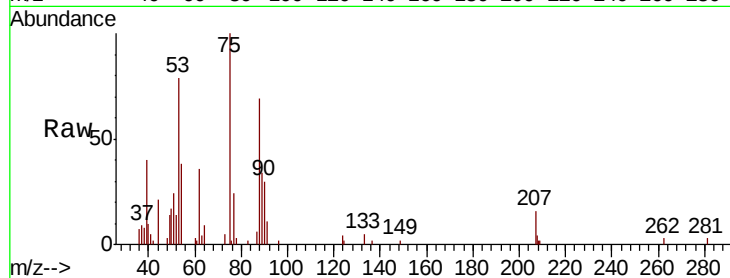
#81
trans-1,4-Dichloro-2-butene
Concen: 2.616 ug/l
RT: 12.38 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.9	72.0	108.0
89	48.7	37.3	55.9

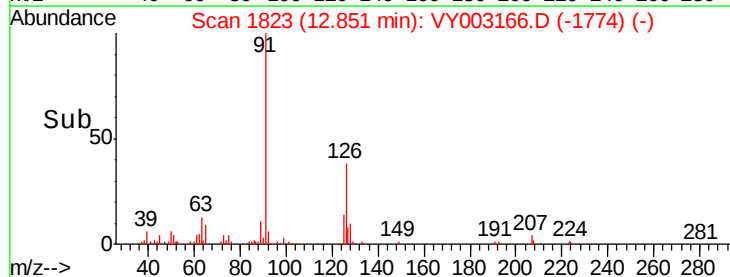
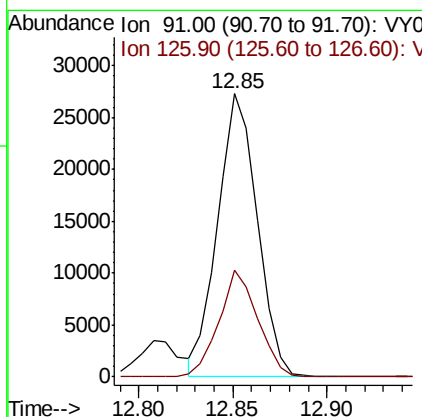
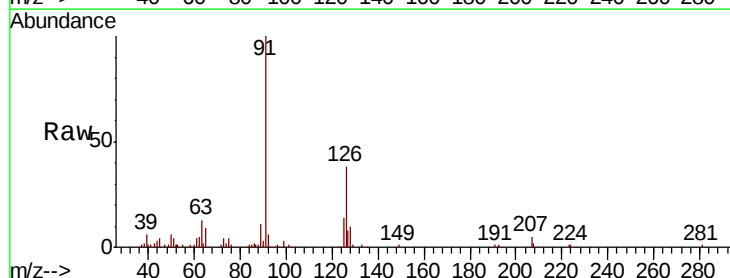
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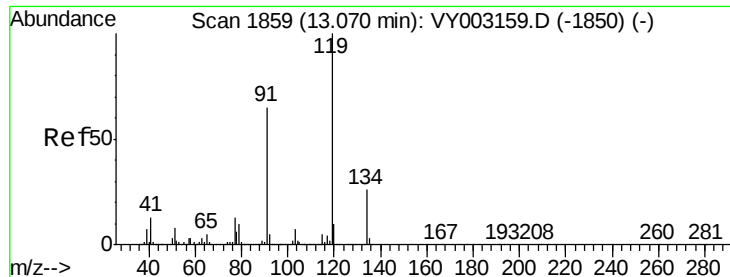
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#82
4-Chlorotoluene
Concen: 2.696 ug/l
RT: 12.85 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.0	17.9	53.7





#83

tert-Butylbenzene

Concen: 2.684 ug/l

RT: 13.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

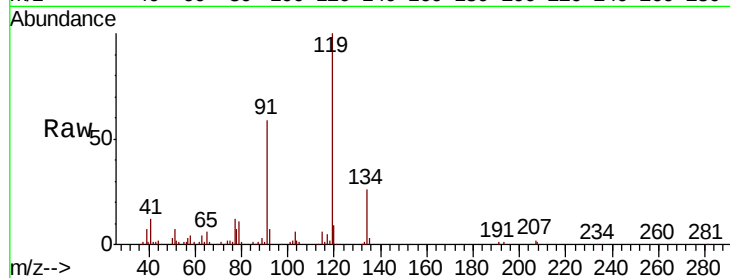
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	119	Resp:	42436
Ion Ratio	Lower	Upper	
119	100		
91	59.9	30.8	92.4
134	27.1	13.2	39.6

Manual Integrations
APPROVED

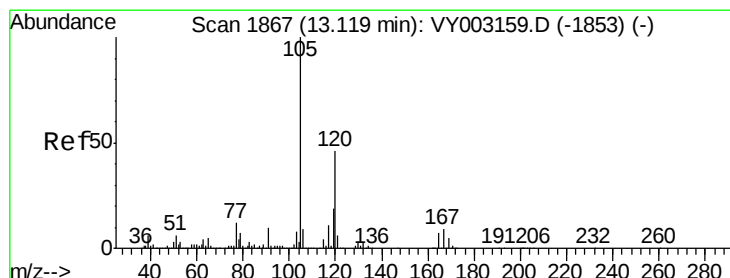
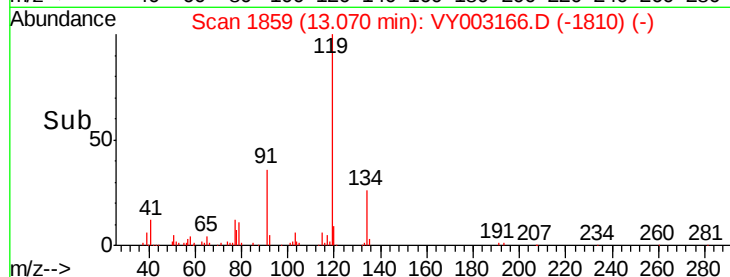
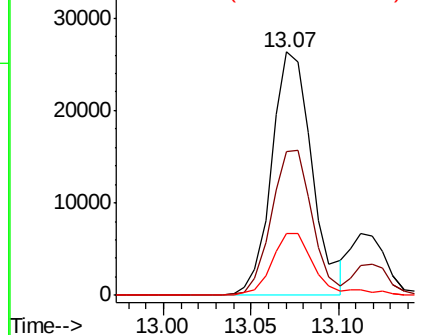
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.652 ug/l

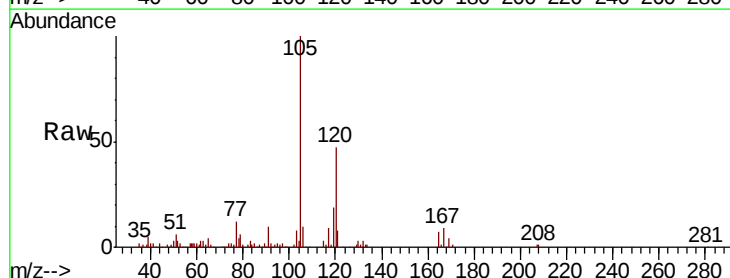
RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003166.D

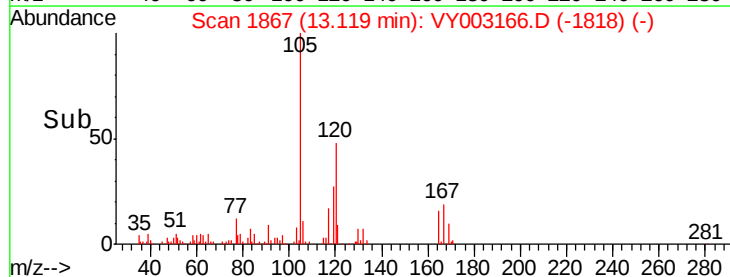
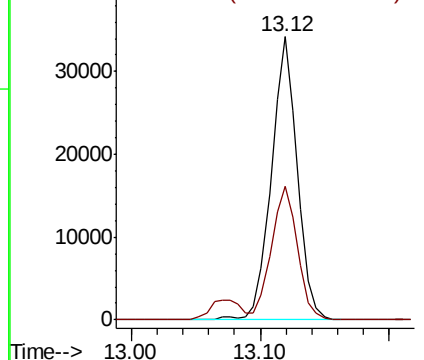
Acq: 10 Jul 2020 16:20

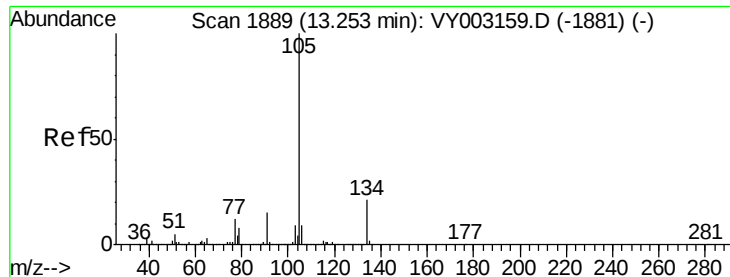
Tgt Ion:	105	Resp:	47821
Ion Ratio	Lower	Upper	
105	100		
120	48.1	22.5	67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





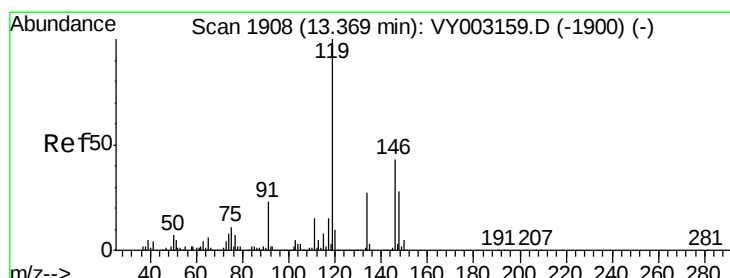
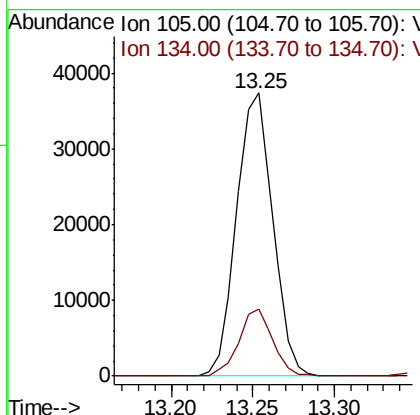
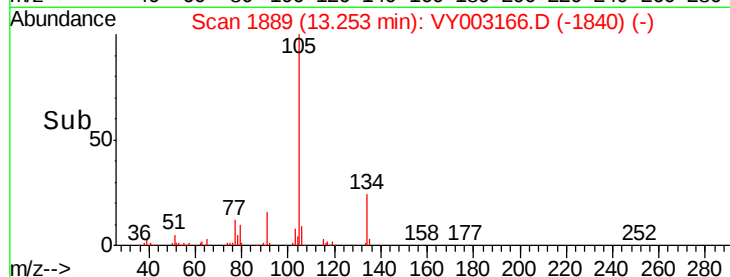
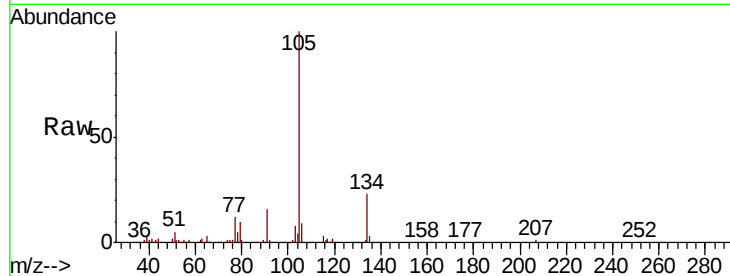
#85
 sec-Butylbenzene
 Concen: 2.674 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	22.0	10.4	31.4

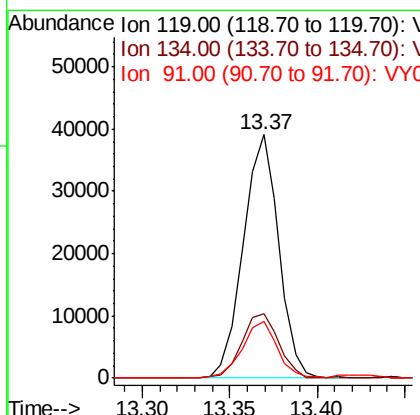
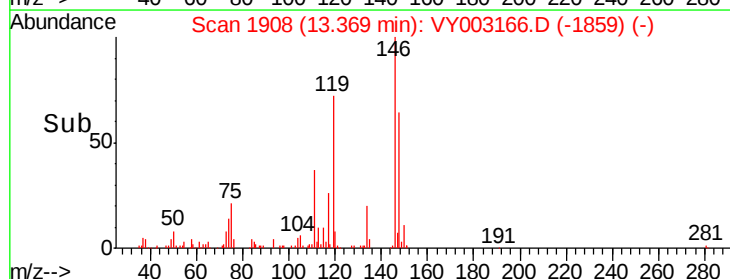
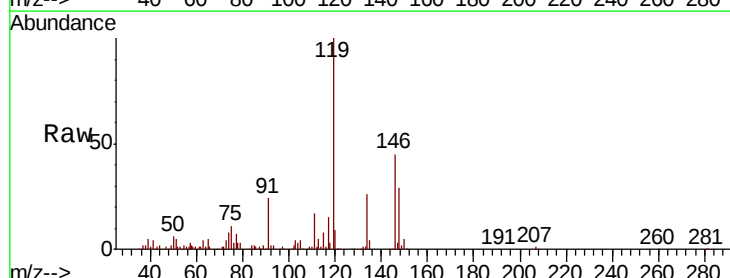
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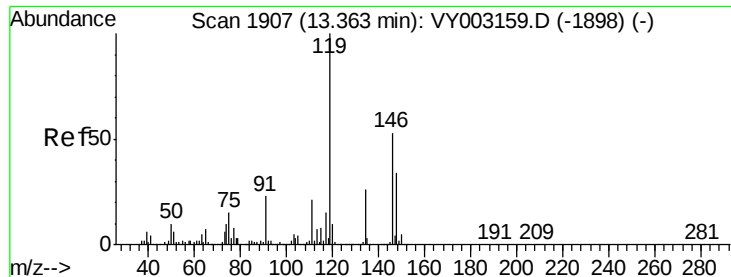
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#86
 p-Isopropyltoluene
 Concen: 2.704 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.8	13.4	40.2
91	23.6	11.2	33.6





#87

1,3-Dichlorobenzene

Concen: 2.851 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Instrument :

MSVOA_Y

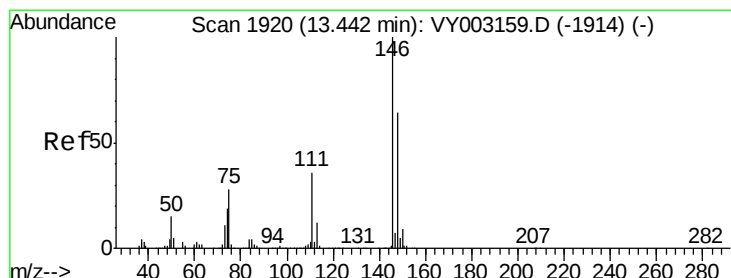
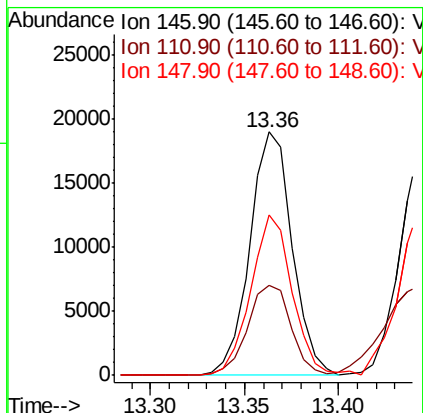
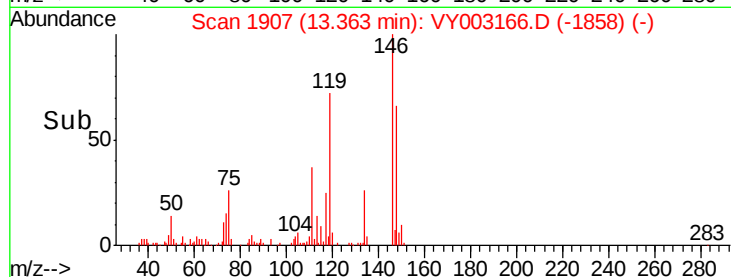
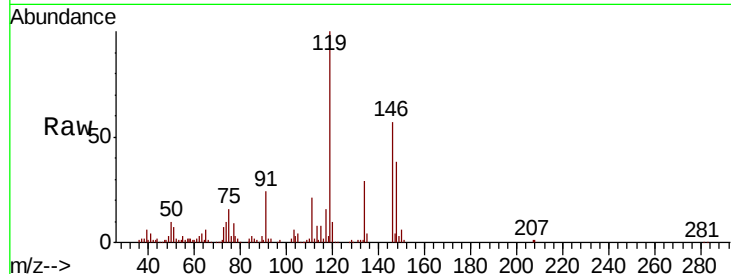
ClientSampleId :

MDL-SOIL-03-QT3-2020

Tot Ion:	146	Resp:	29541
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.8	56.3
148	64.2	32.3	96.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 2.811 ug/l

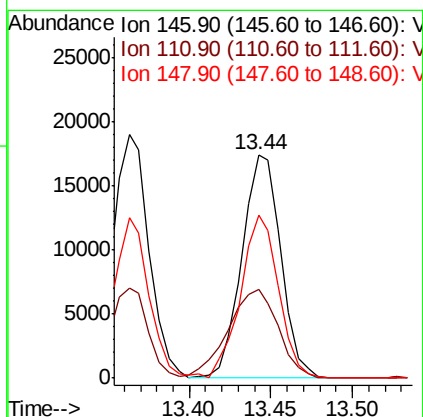
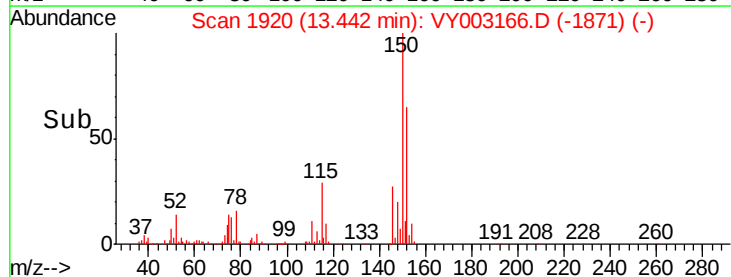
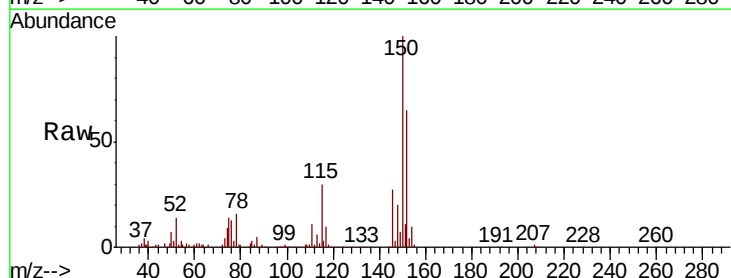
RT: 13.44 min Scan# 1920

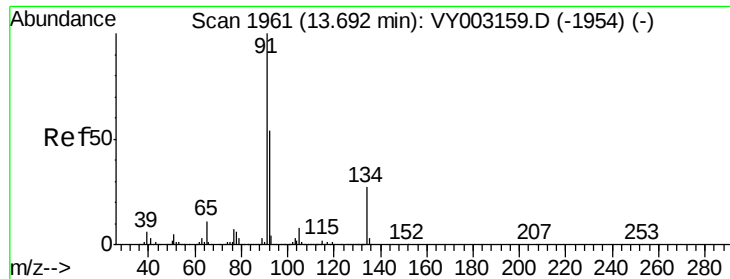
Delta R.T. -0.00 min

Lab File: VY003166.D

Acq: 10 Jul 2020 16:20

Tgt Ion:	146	Resp:	28846
Ion Ratio	Lower	Upper	
146	100		
111	51.4	18.4	55.0
148	71.5	32.0	96.0





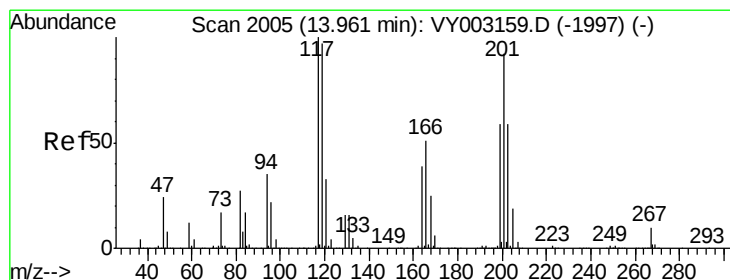
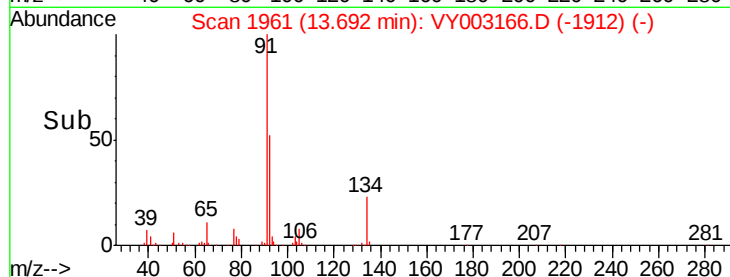
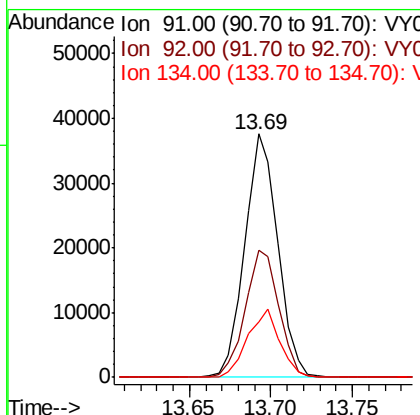
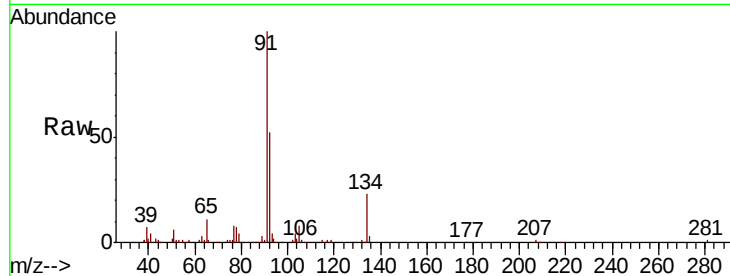
#89
n-Butylbenzene
Concen: 2.780 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.9	80.7
134	27.2	13.6	40.7

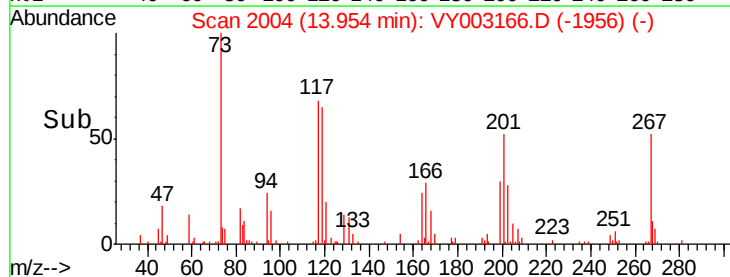
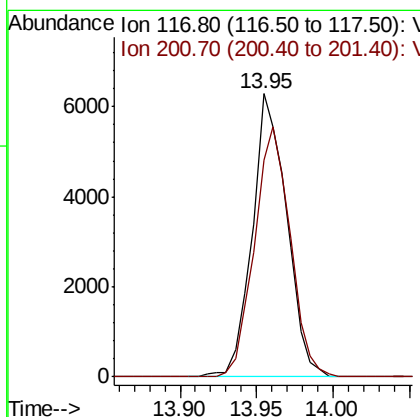
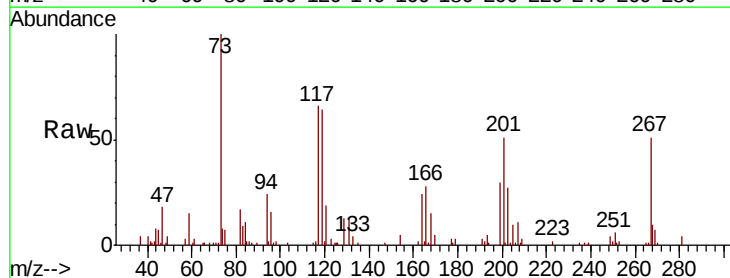
Manual Integrations
APPROVED

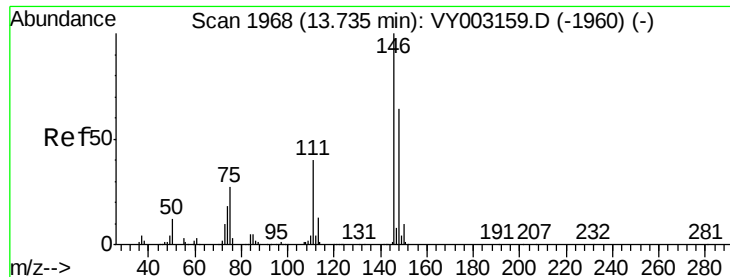
MMDadoda
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#90
Hexachloroethane
Concen: 2.661 ug/l
RT: 13.95 min Scan# 2004
Delta R.T. -0.01 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.0	45.1	135.3





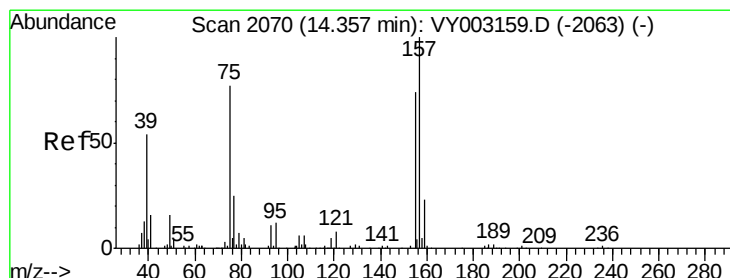
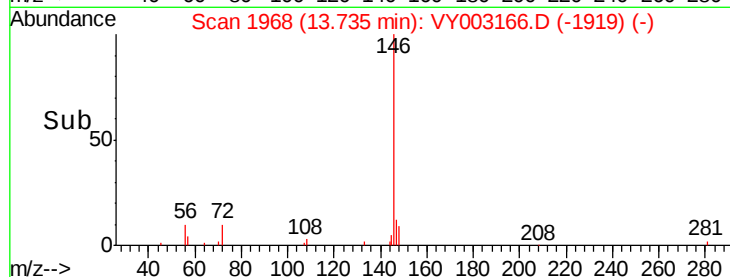
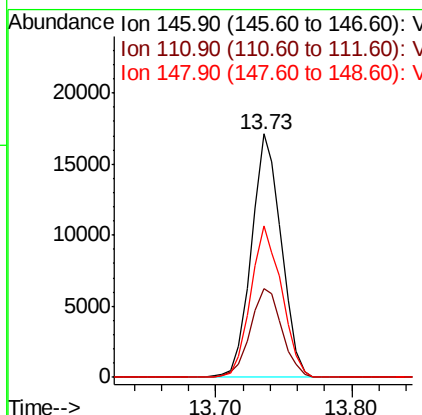
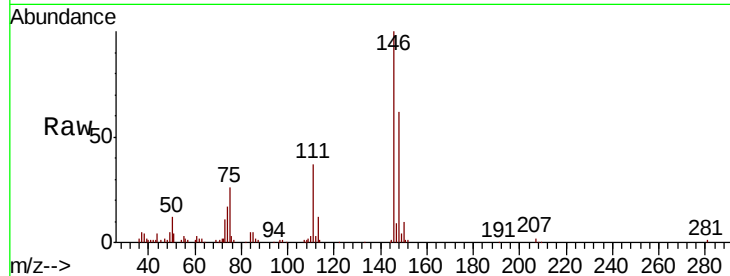
#91
1,2-Dichlorobenzene
Concen: 2.893 ug/l
RT: 13.73 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.6	58.8
148	64.2	32.4	97.0

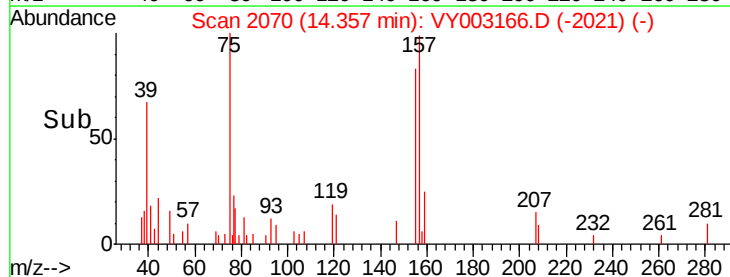
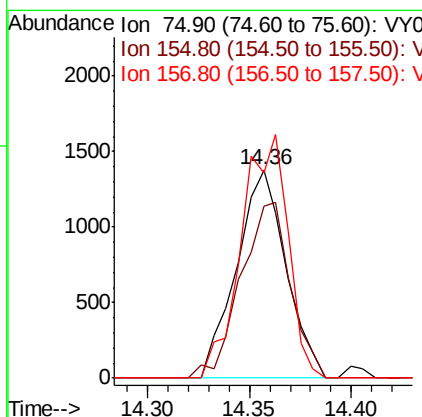
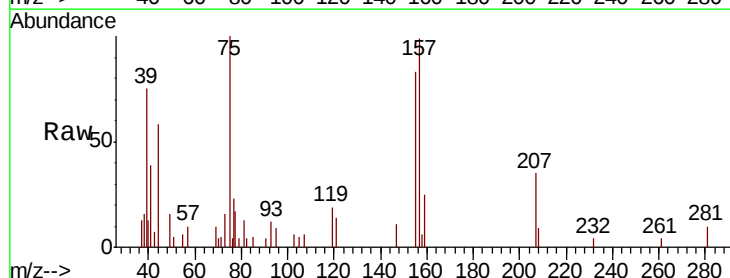
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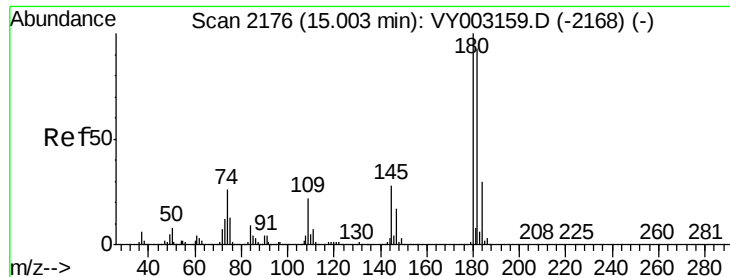
MMDadoda
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#92
1,2-Dibromo-3-Chloropropane
Concen: 3.449 ug/l
RT: 14.36 min Scan# 2070
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	48.1	144.3
157	109.9	61.9	185.6





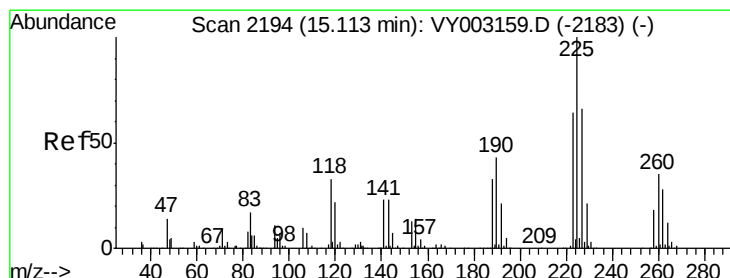
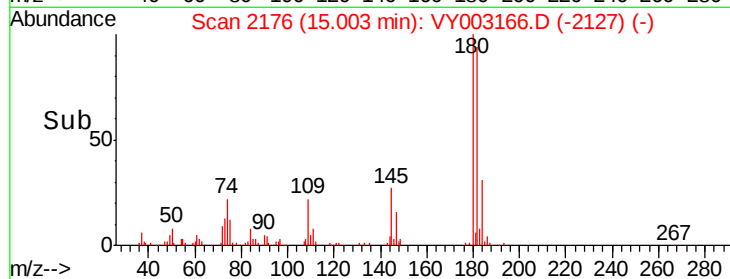
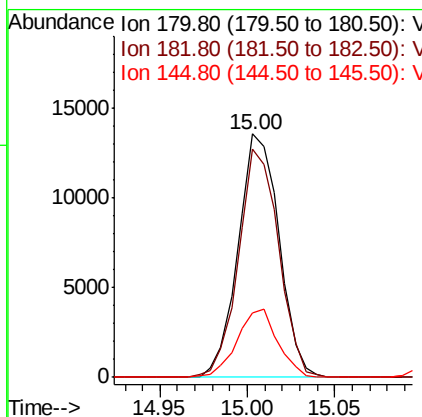
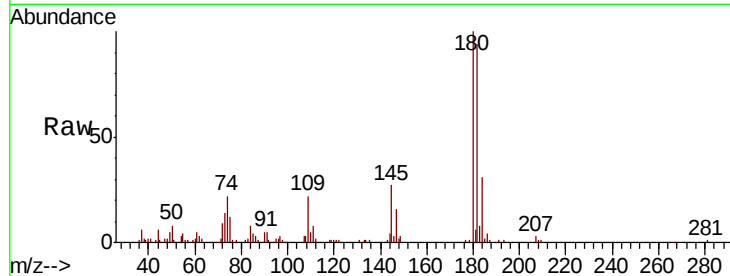
#93
 1,2,4-Trichlorobenzene
 Concen: 3.407 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.0	47.3	142.0
145	27.6	13.7	41.1

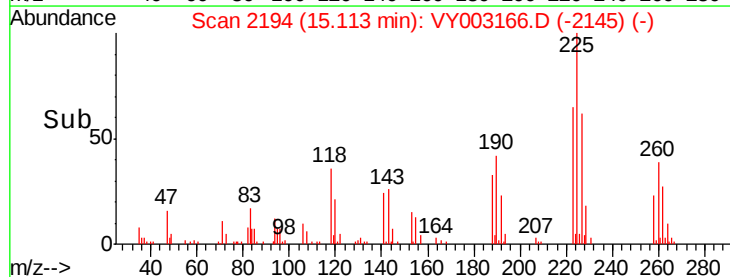
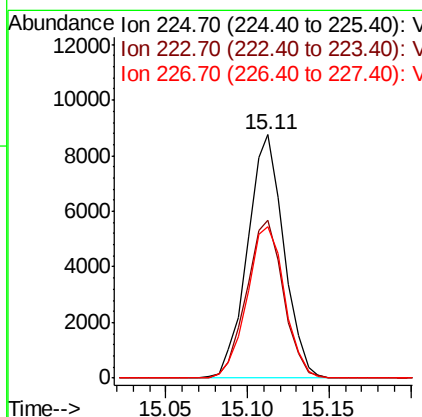
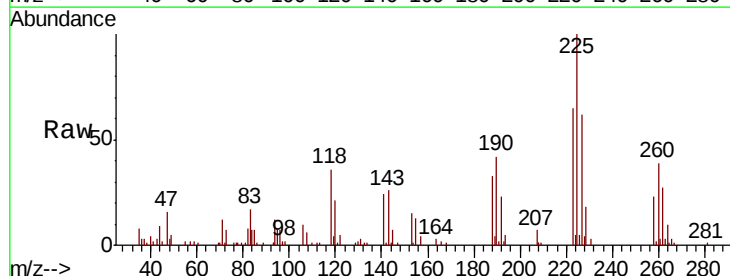
Manual Integrations
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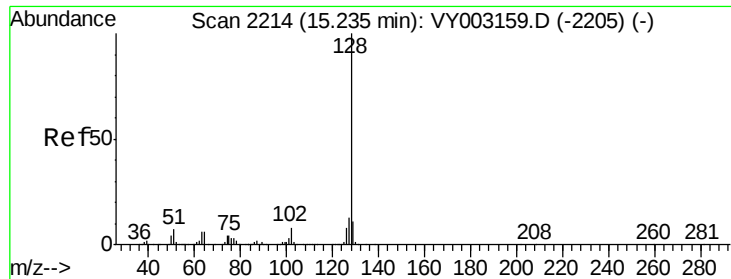
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#94
 Hexachlorobutadiene
 Concen: 3.065 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VY003166.D
 Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.5	31.6	94.7
227	64.3	32.3	96.8





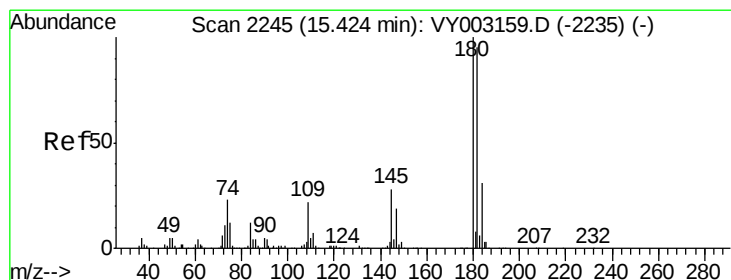
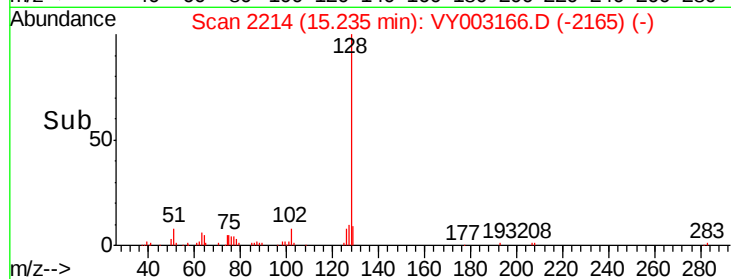
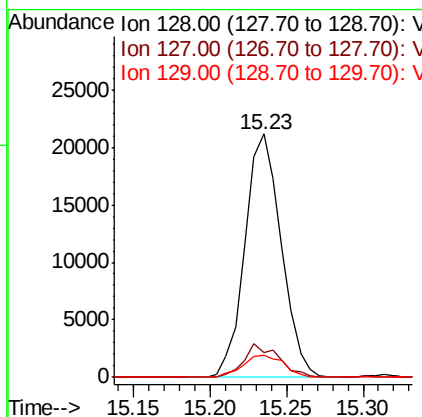
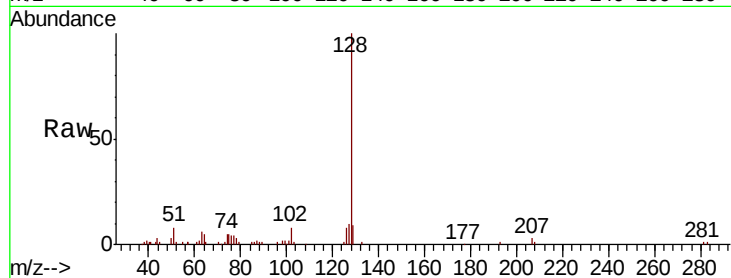
#95
Naphthalene
Concen: 3.277 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.9	16.3
129	10.5	9.0	13.6

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 3.564 ug/l
RT: 15.42 min Scan# 2245
Delta R.T. -0.00 min
Lab File: VY003166.D
Acq: 10 Jul 2020 16:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.8	146.3
145	31.4	14.9	44.5

