

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019220.D
 Acq On : 03 Nov 2020 00:30
 Operator : SY/MD
 Sample : L4485-15
 Misc : 5.0µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-01

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 10:44:55 AM

Quant Time: Nov 03 06:23:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 05:28:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	228644	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	218111	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	110334	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	88856	50.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.72%
7) Chloroethane-d5	1.58	69	73780	53.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.72%
11) 1,1-Dichloroethene-d2	2.13	63	130511	39.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.90%
21) 2-Butanone-d5	3.91	46	107956	110.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.96%
24) Chloroform-d	4.38	84	165426m	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.18%
26) 1,2-Dichloroethane-d4	5.06	65	118212	51.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.74%
32) Benzene-d6	5.07	84	309662	51.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.84%
36) 1,2-Dichloropropane-d6	6.09	67	94501	52.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.10%
41) Toluene-d8	7.33	98	272566	48.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.16%
43) trans-1,3-Dichloropropene-	7.64	79	50681	49.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.56%
47) 2-Hexanone-d5	8.11	63	69543	99.62	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.62%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	119543	49.89	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.78%
66) 1,2-Dichlorobenzene-d4	11.65	152	114640	51.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	2932	2.093	ug/L	91
3) Chloromethane	1.25	50	3448	2.364	ug/L	96
5) Vinyl chloride	1.32	62	3889	2.562	ug/L #	59
6) Bromomethane	1.53	94	2752	2.697	ug/L	96
8) Chloroethane	1.60	64	2909	2.930	ug/L	89
9) Trichlorofluoromethane	1.77	101	5439	2.164	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3384	2.834	ug/L #	73
12) 1,1-Dichloroethene	2.13	96	3987	3.230	ug/L #	1
13) Acetone	2.20	43	3817	5.159	ug/L	75
14) Carbon disulfide	2.31	76	8353	2.357	ug/L	99
15) Methyl Acetate	2.46	43	3363	2.346	ug/L	91
16) Methylene chloride	2.53	84	3797	2.588	ug/L	92
17) trans-1,2-Dichloroethene	2.78	96	3018	2.254	ug/L	90
18) Methyl tert-butyl Ether	2.79	73	10836	2.302	ug/L	100
19) 1,1-Dichloroethane	3.22	63	6132	2.337	ug/L	97
20) cis-1,2-Dichloroethene	3.95	96	3104m	2.098	ug/L	
22) 2-Butanone	4.03	43	4028m	4.289	ug/L	

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Manual Integrations
 APPROVED

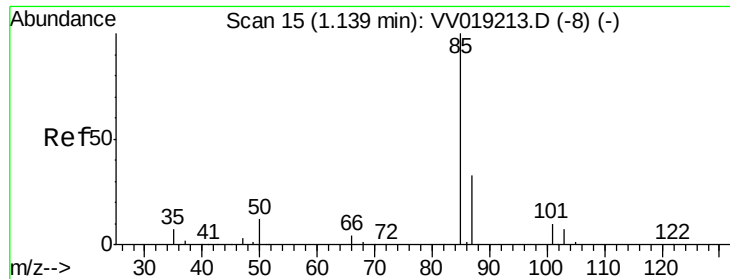
MMDadoda
 11/4/2020 10:44:55 AM

Quant Time: Nov 03 06:23:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.28	128	1865	2.289	ug/L #	79
25) Chloroform	4.40	83	7185	2.554	ug/L	76
27) 1,2-Dichloroethane	5.16	62	5879	2.459	ug/L	97
29) Cyclohexane	4.70	56	3345	1.792	ug/L	97
30) 1,1,1-Trichloroethane	4.64	97	5421	2.143	ug/L	99
31) Carbon tetrachloride	4.86	117	4500	2.060	ug/L	96
33) Benzene	5.13	78	12504	2.307	ug/L	100
34) Trichloroethene	5.95	95	3280	2.227	ug/L	90
35) Methylcyclohexane	6.15	83	3342	1.874	ug/L	84
37) 1,2-Dichloropropane	6.21	63	3138	2.169	ug/L #	84
38) Bromodichloromethane	6.54	83	4906	2.357	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	4564	1.972	ug/L	98
40) 4-Methyl-2-pentanone	7.25	43	7695	3.960	ug/L	98
42) Toluene	7.41	91	14263	2.434	ug/L	100
44) trans-1,3-Dichloropropene	7.68	75	5211	2.197	ug/L	96
45) 1,1,2-Trichloroethane	7.86	97	3040	2.126	ug/L	94
46) Tetrachloroethene	8.00	164	2340	1.947	ug/L	96
48) 2-Hexanone	8.16	43	8859	6.030	ug/L	98
49) Dibromochloromethane	8.27	129	3611	2.118	ug/L	95
50) 1,2-Dibromoethane	8.38	107	3368	2.273	ug/L #	97
51) Chlorobenzene	8.90	112	8986	2.293	ug/L	96
52) Ethylbenzene	9.04	91	12726	1.969	ug/L	94
53) m,p-Xylene	9.16	106	4578	1.892	ug/L	81
54) o-Xylene	9.57	106	4940	2.071	ug/L	84
55) Styrene	9.59	104	7763	1.828	ug/L	90
57) 1,1,2,2-Tetrachloroethane	10.26	83	5180	2.395	ug/L #	98
59) Bromoform	9.75	173	2843	2.322	ug/L #	95
60) Isopropylbenzene	9.95	105	10535	1.822	ug/L	96
61) 1,2,3-Trichloropropane	10.30	75	4052	2.364	ug/L	99
62) 1,3,5-Trimethylbenzene	10.56	105	8751	1.817	ug/L	100
63) 1,2,4-Trimethylbenzene	10.94	105	8137	1.727	ug/L	95
64) 1,3-Dichlorobenzene	11.21	146	6493	2.147	ug/L	94
65) 1,4-Dichlorobenzene	11.29	146	7273	2.324	ug/L	96
67) 1,2-Dichlorobenzene	11.67	146	7164	2.315	ug/L #	84
68) 1,2-Dibromo-3-chloropropan	12.45	75	1016	2.032	ug/L	89
69) 1,3,5-Trichlorobenzene	12.67	180	4396	2.025	ug/L	94
70) 1,2,4-trichlorobenzene	13.29	180	3786	1.853	ug/L	93
71) Naphthalene	13.53	128	8156	1.416	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	3812	1.882	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 2.093 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 85 Resp: 2932

Ion Ratio Lower Upper

85 100

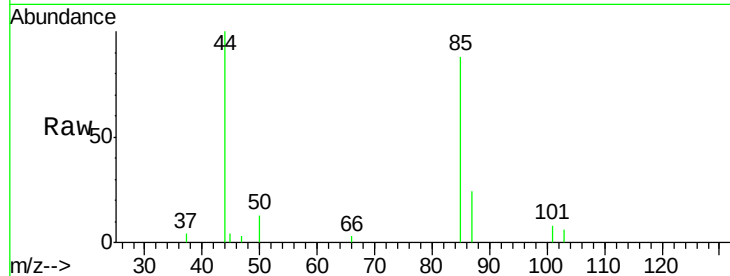
87 27.1 25.9 38.9

Manual Integrations

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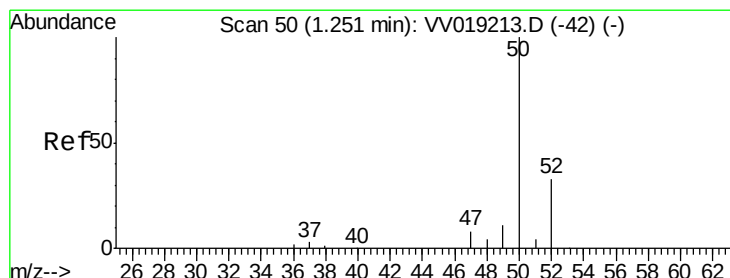
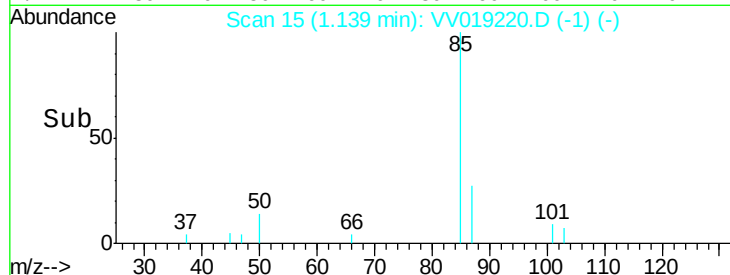
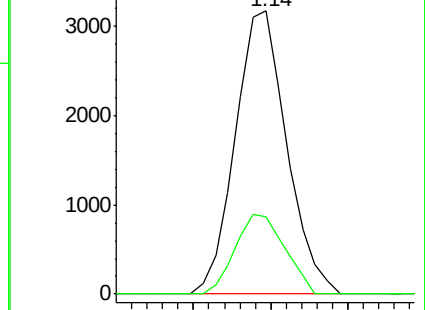
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Abundance Ion 85.00 (84.70 to 85.70): VV019213.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019213.D (-8) (-)



#3

Chloromethane

Concen: 2.364 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019220.D

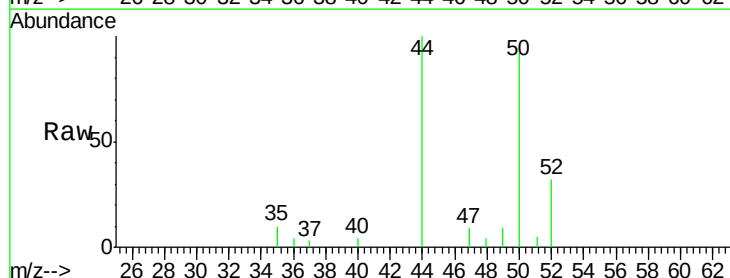
Acq: 03 Nov 2020 00:30

Tgt Ion: 50 Resp: 3448

Ion Ratio Lower Upper

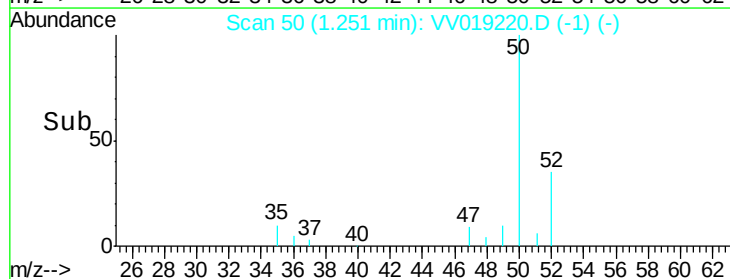
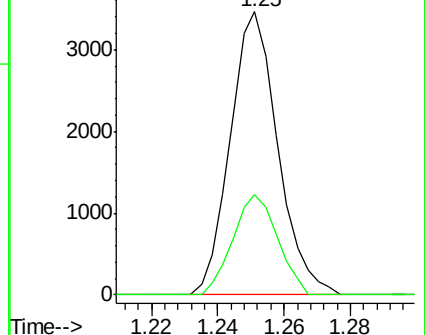
50 100

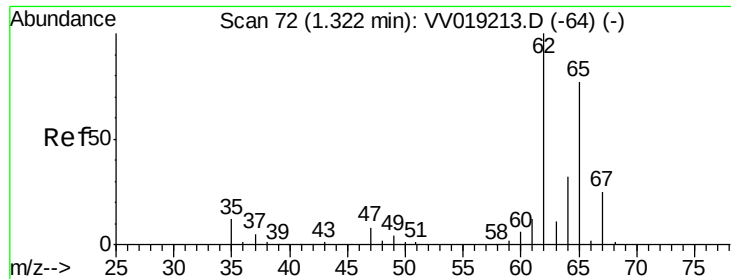
52 35.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019213.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019213.D (-42) (-)





#5

Vinyl chloride

Concen: 2.562 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 62 Resp: 3889

Ion Ratio Lower Upper

62 100

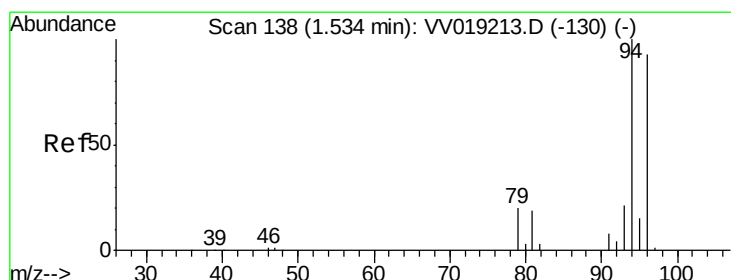
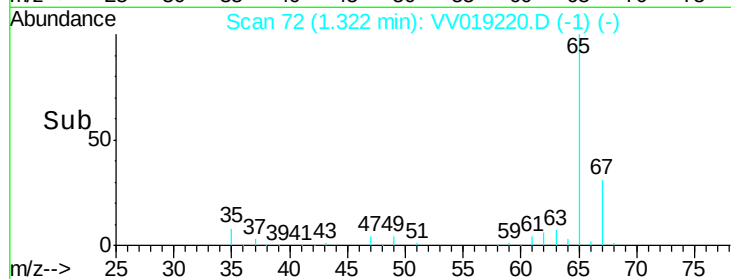
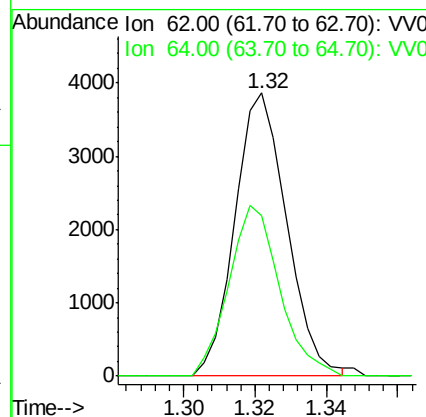
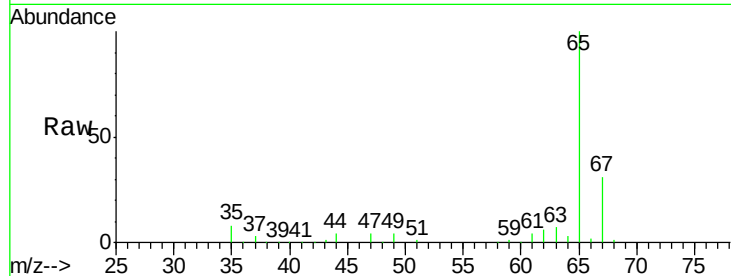
64 56.8 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.697 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019220.D

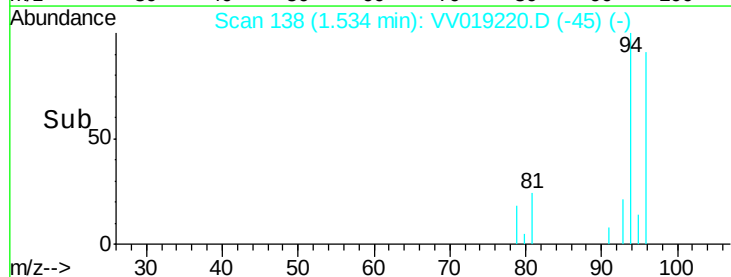
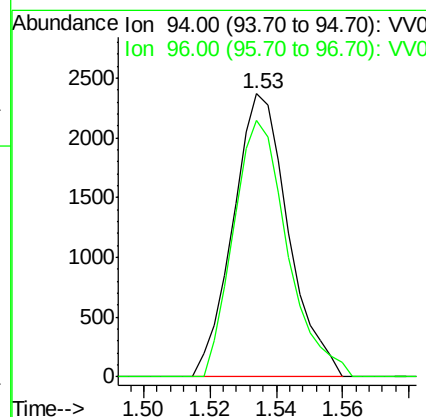
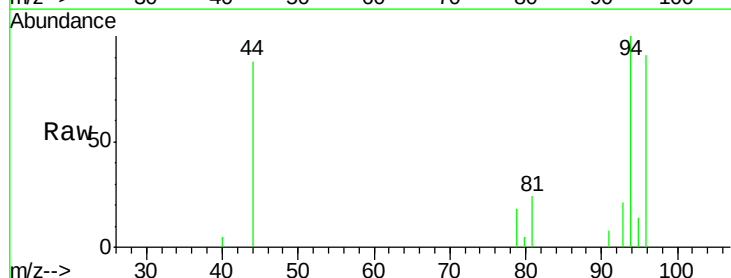
Acq: 03 Nov 2020 00:30

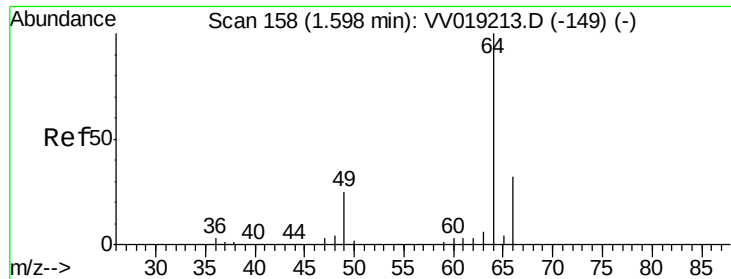
Tgt Ion: 94 Resp: 2752

Ion Ratio Lower Upper

94 100

96 90.5 66.4 123.2





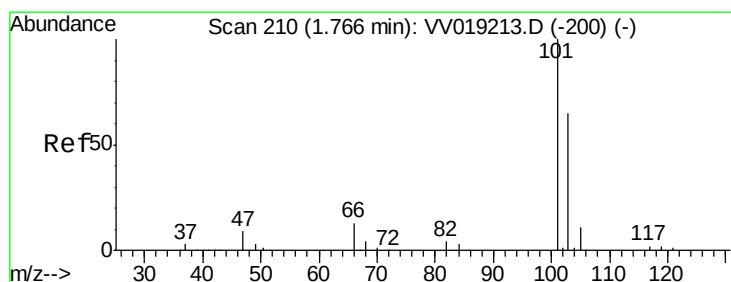
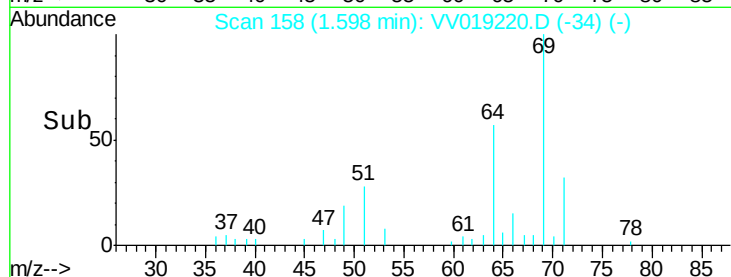
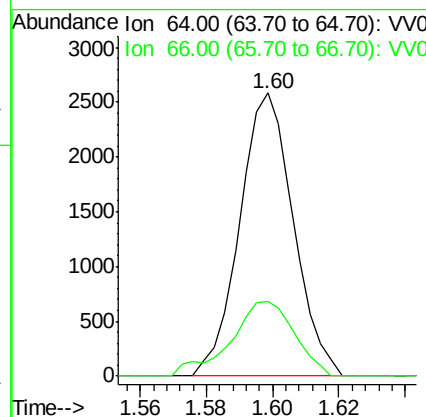
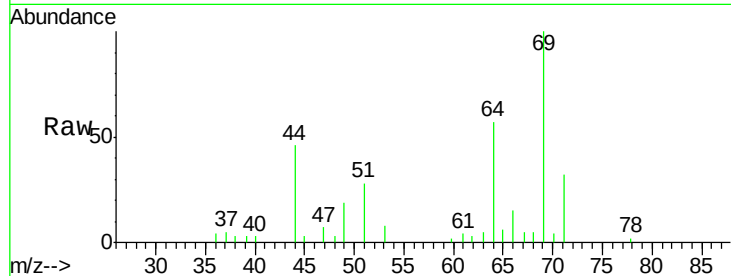
#8
Chloroethane
Concen: 2.930 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 64 Resp: 2909
Ion Ratio Lower Upper
64 100
66 26.3 22.5 41.9

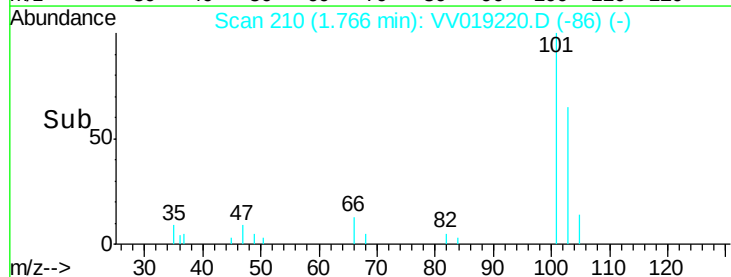
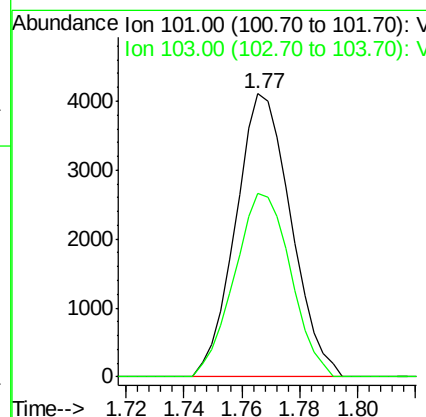
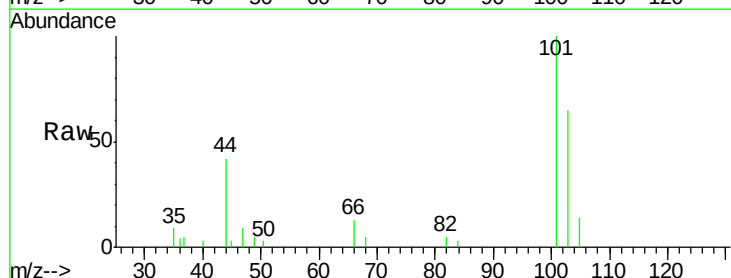
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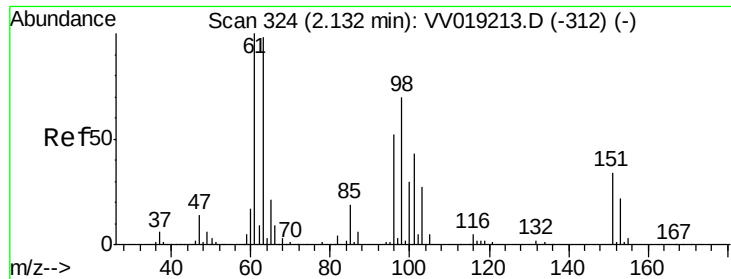
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11/4/2020 10:44:55 AM



#9
Trichlorofluoromethane
Concen: 2.164 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion: 101 Resp: 5439
Ion Ratio Lower Upper
101 100
103 66.0 52.3 78.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.834 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

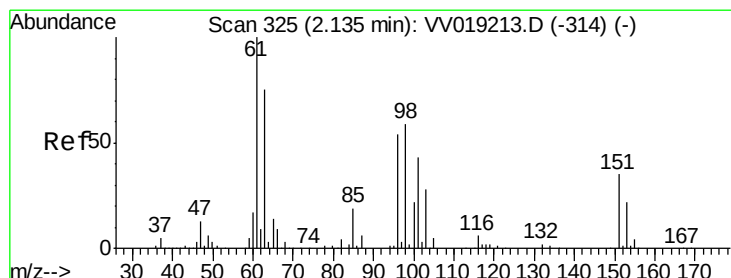
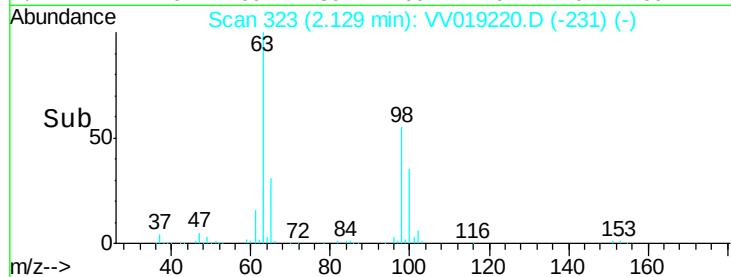
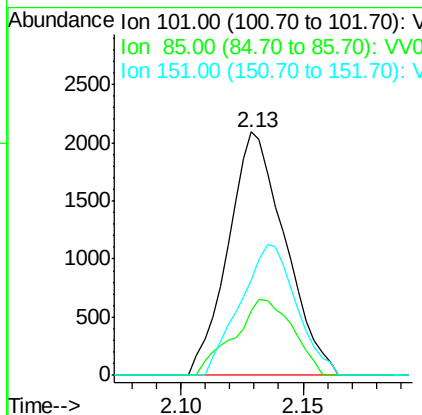
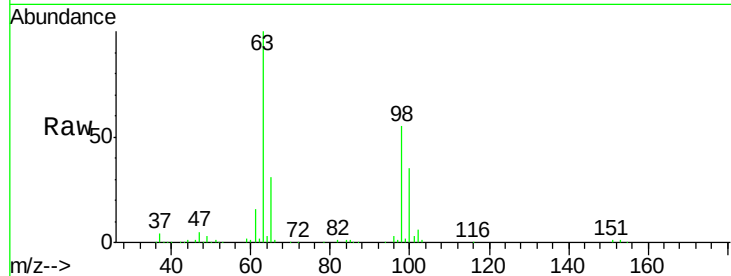
ClientSampleId :

MDL-ME-SOIL-01

Tot Ion:	101	Resp:	3384
Ion Ratio	Lower	Upper	
101	100		
85	32.1	35.6	53.4#
151	53.0	64.1	96.1#

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#12

1,1-Dichloroethene

Concen: 3.230 ug/L

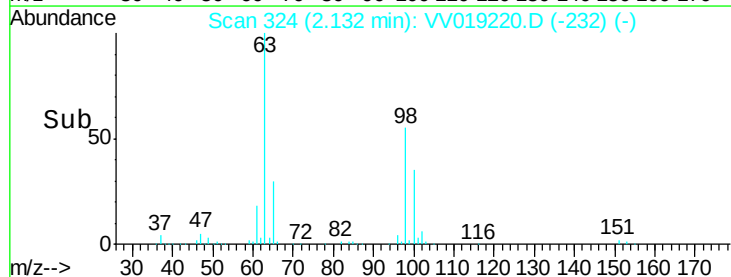
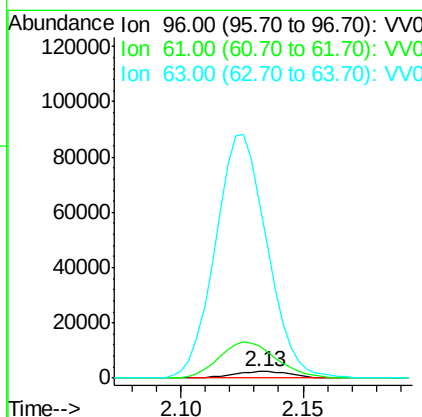
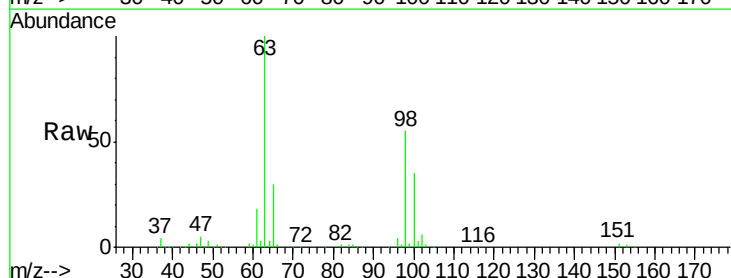
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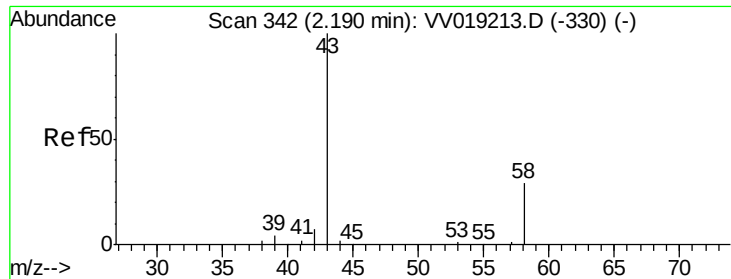
Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tgt Ion:	96	Resp:	3987
Ion Ratio	Lower	Upper	
96	100		
61	478.6	133.6	248.0#
63	2683.5	103.0	191.2#





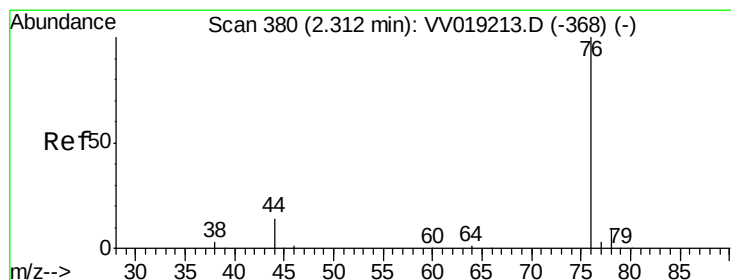
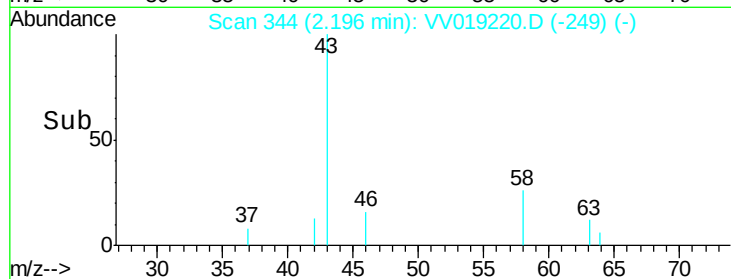
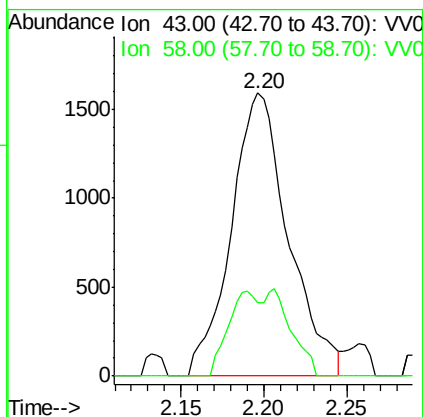
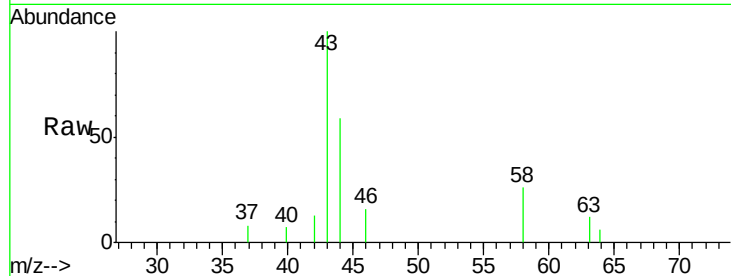
#13
Acetone
Concen: 5.159 ug/L
RT: 2.20 min Scan# 344
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 3817
Ion Ratio Lower Upper
43 100
58 15.6 0.0 57.8

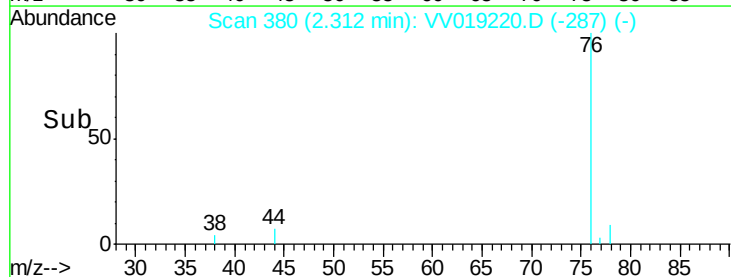
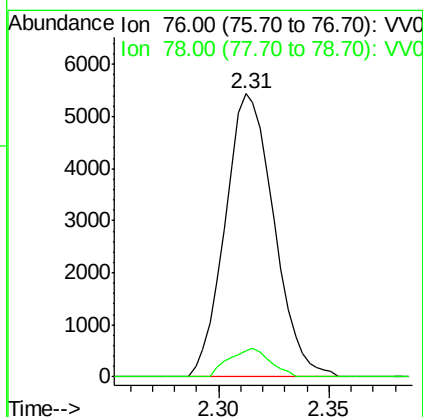
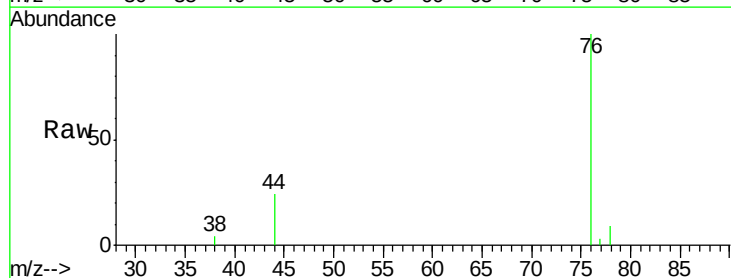
Manual Integrations
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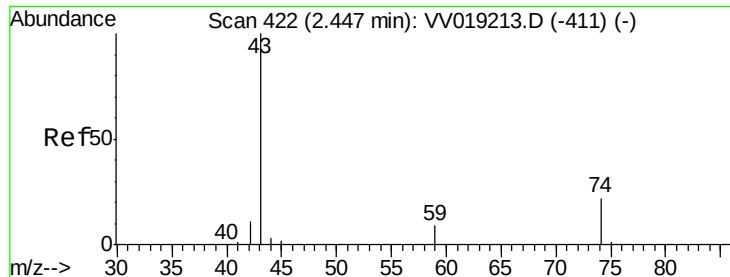
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11/4/2020 10:44:55 AM



#14
Carbon disulfide
Concen: 2.357 ug/L
RT: 2.31 min Scan# 380
Delta R.T. -0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion: 76 Resp: 8353
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0





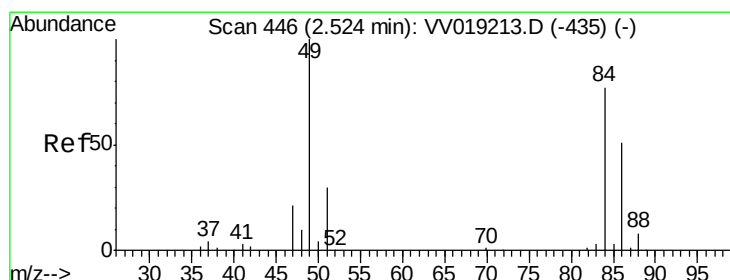
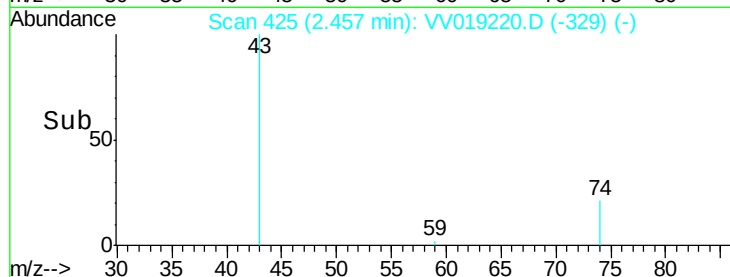
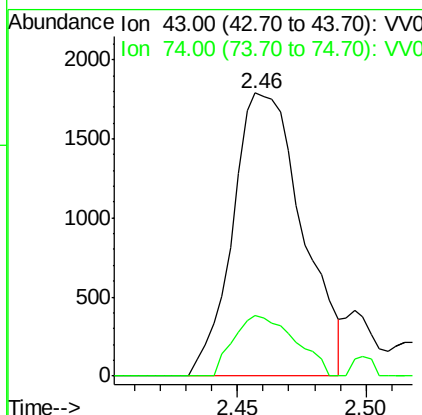
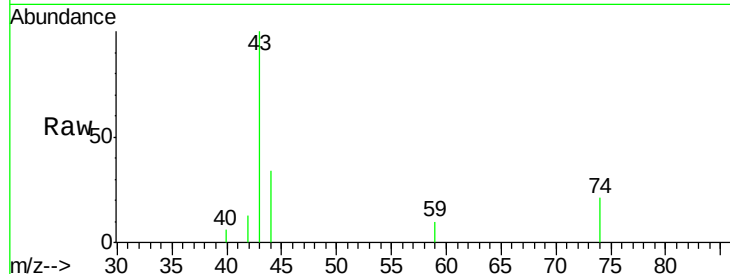
#15
Methvl Acetate
Concen: 2.346 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 3363
Ion Ratio Lower Upper
43 100
74 18.9 18.8 28.2

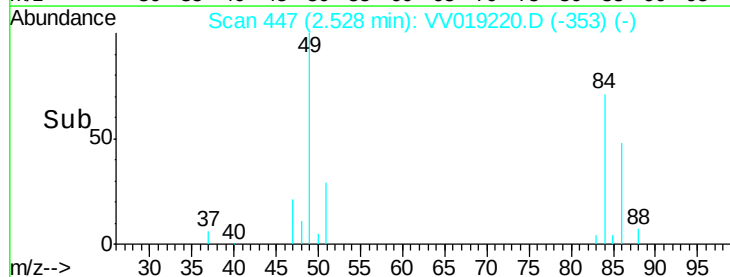
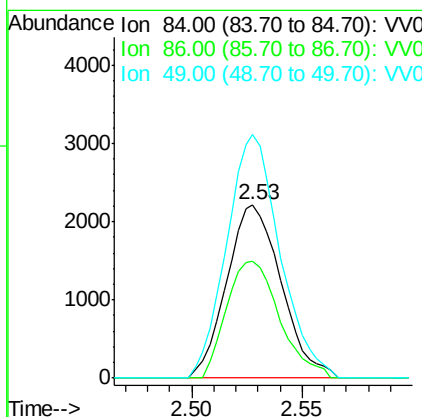
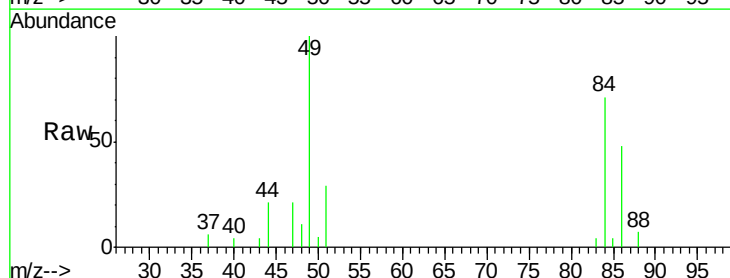
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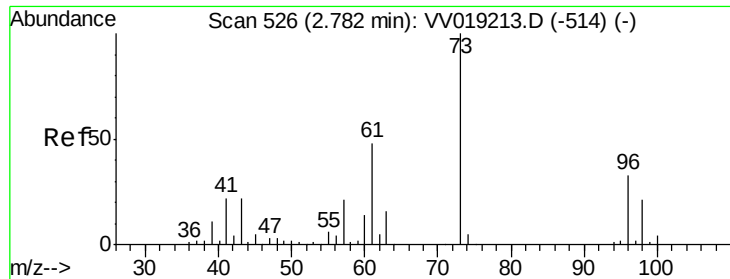
MMDadoda
11/4/2020 10:44:55 AM



#16
Methylene chloride
Concen: 2.588 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion: 84 Resp: 3797
Ion Ratio Lower Upper
84 100
86 67.4 45.6 84.8
49 140.5 89.3 165.9





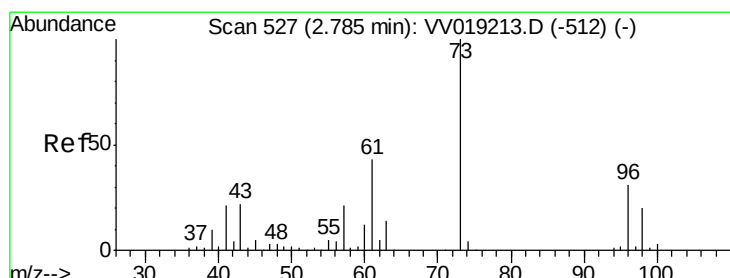
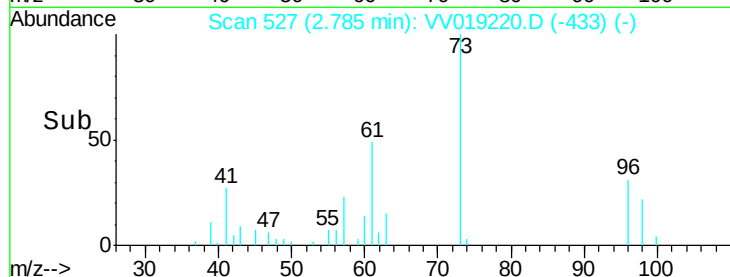
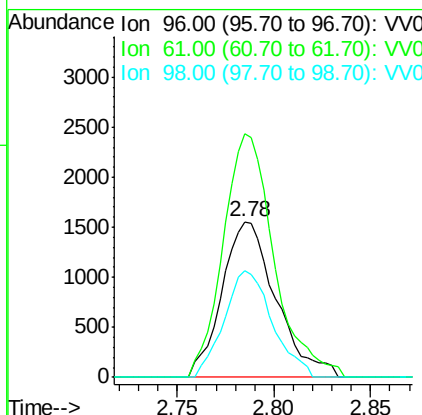
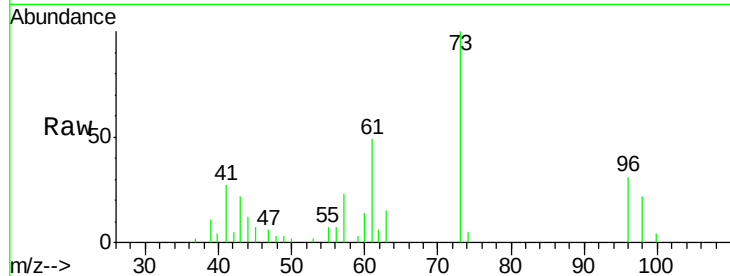
#17
trans-1,2-Dichloroethene
Concen: 2.254 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.3	100.7	187.1
98	68.8	42.9	79.7

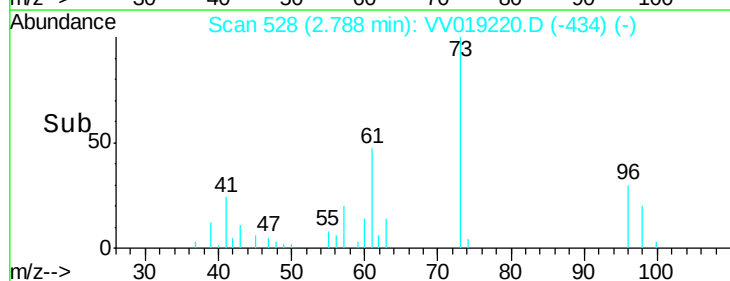
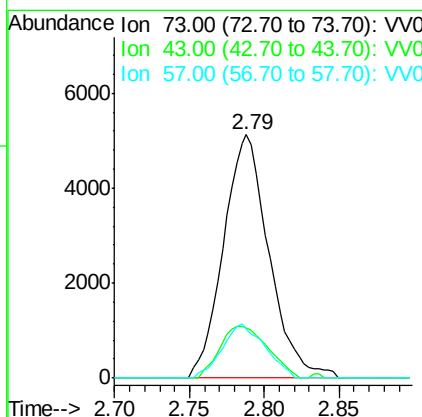
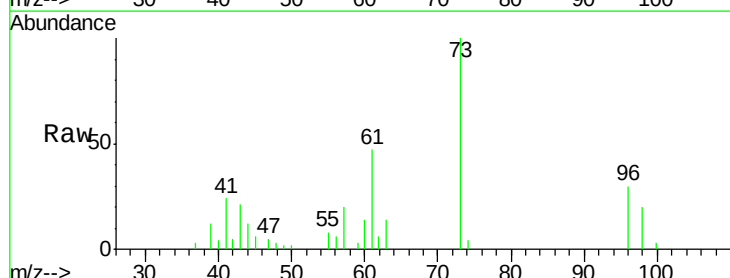
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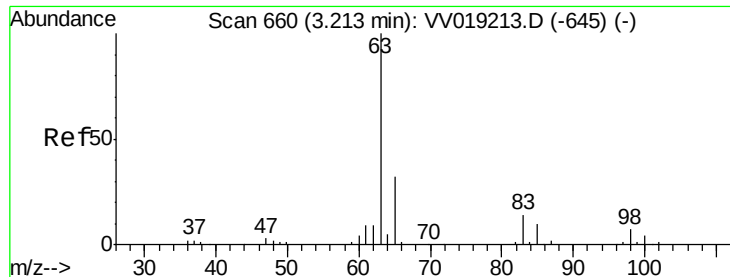
MMDadoda
11/4/2020 10:44:55 AM



#18
Methyl tert-butyl Ether
Concen: 2.302 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
73	100		
43	22.4	17.9	26.9
57	21.0	17.1	25.7





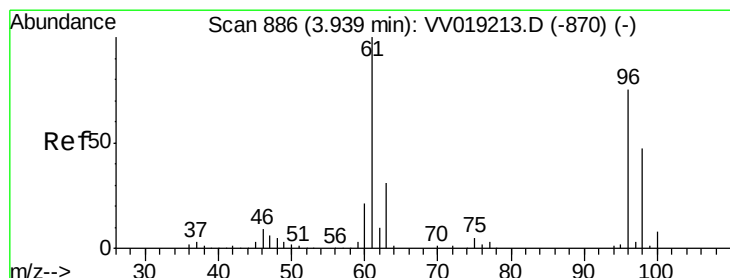
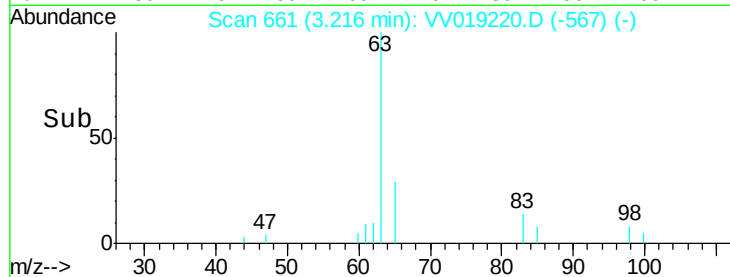
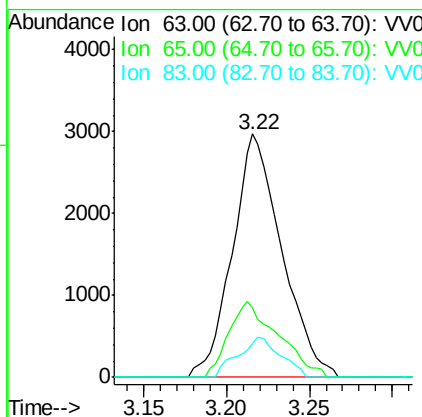
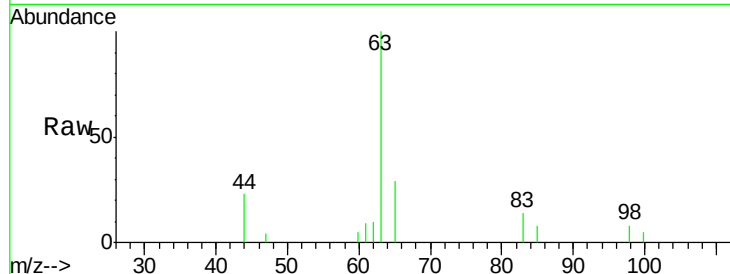
#19
 1,1-Dichloroethane
 Concen: 2.337 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.7	21.8	40.6
83	13.9	9.5	17.7

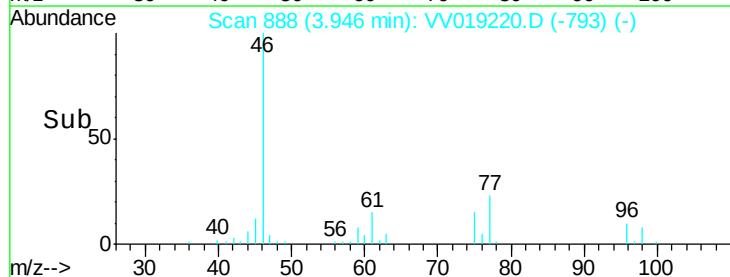
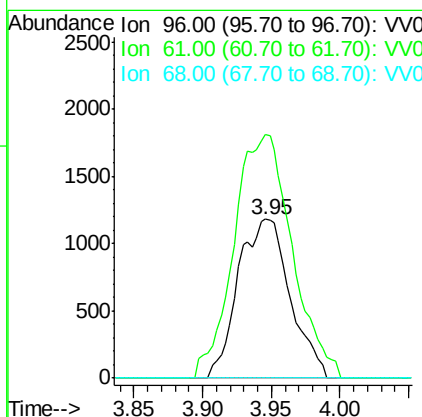
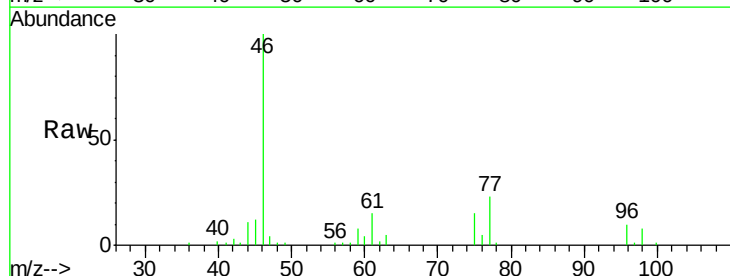
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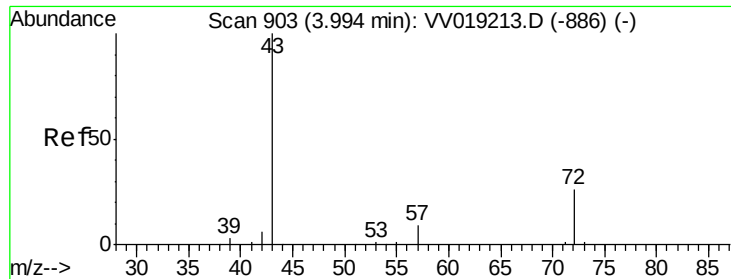
MMDadoda
 11/4/2020 10:44:55 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.098 ug/L m
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.2	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.289 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.04 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 43 Resp: 4028

Ion Ratio Lower Upper

43 100

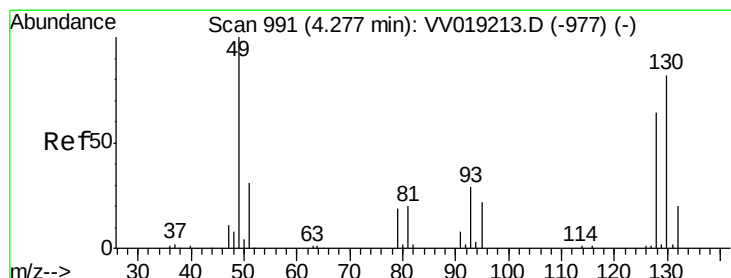
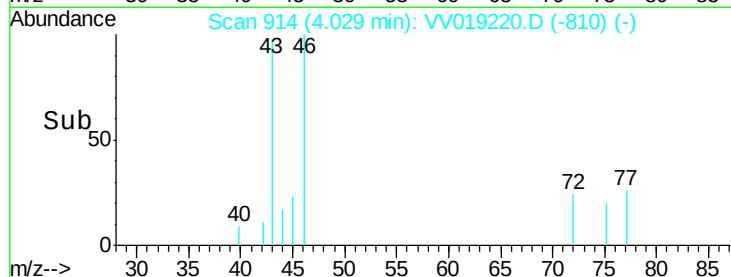
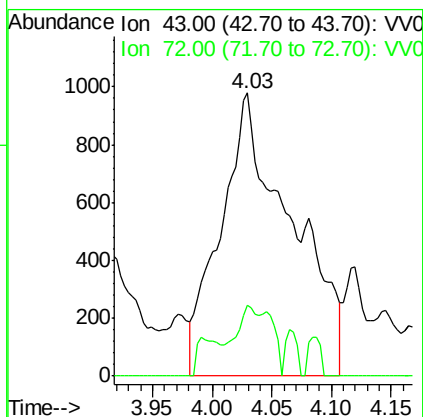
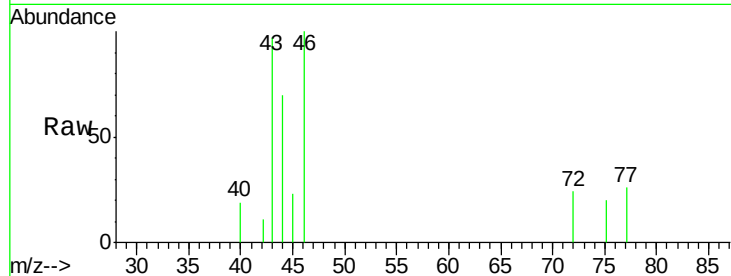
72 4.6 12.7 38.0#

Manual Integrations

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11/4/2020 10:44:55 AM



#23

Bromochloromethane

Concen: 2.289 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tgt Ion: 128 Resp: 1865

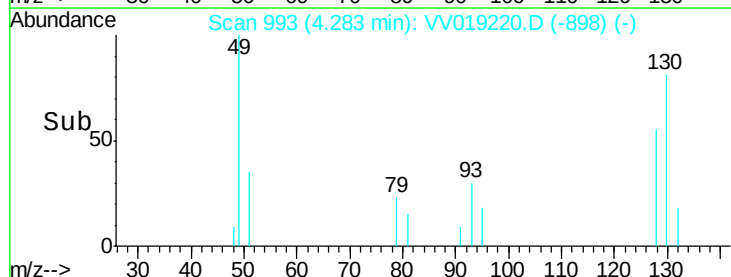
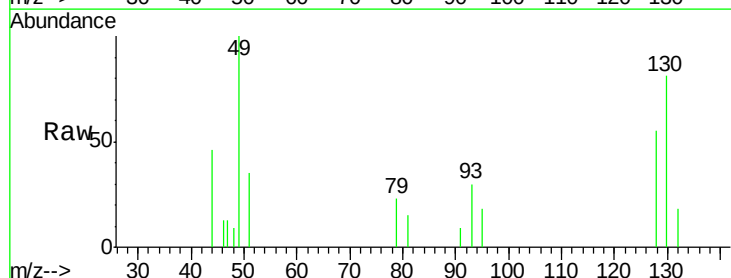
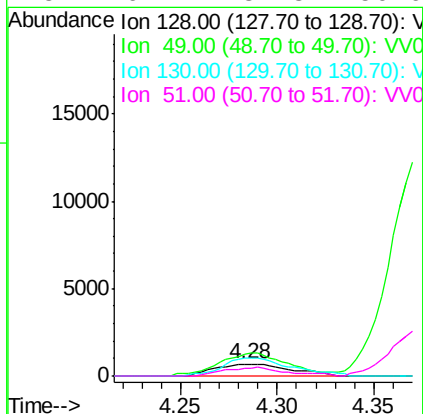
Ion Ratio Lower Upper

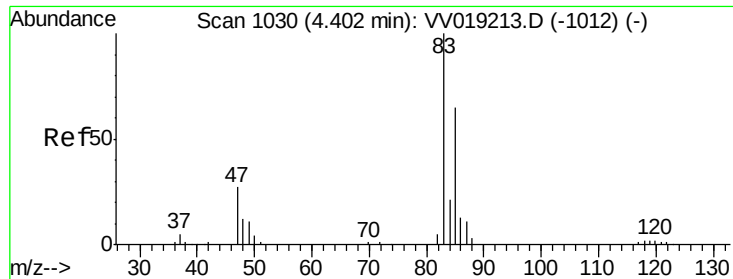
128 100

49 182.7 108.8 202.2

130 147.8 88.5 164.3

51 64.2 37.8 56.6#





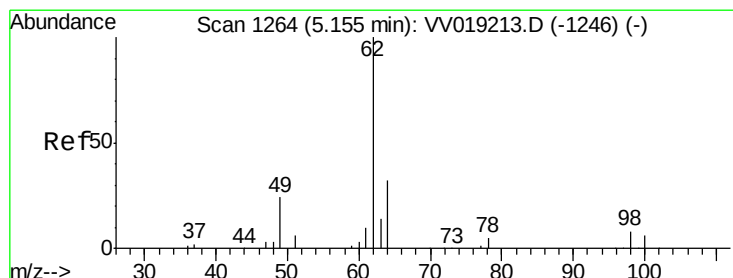
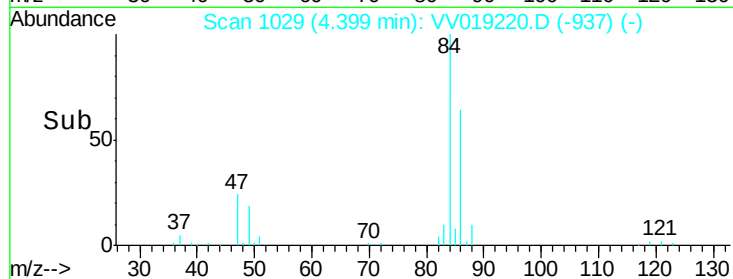
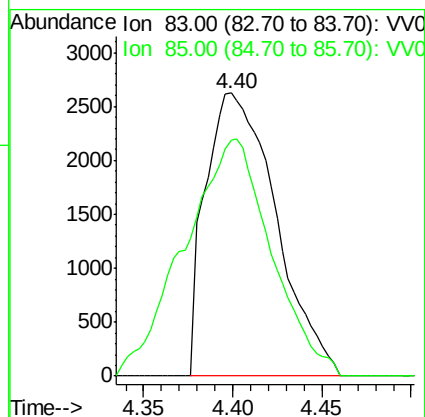
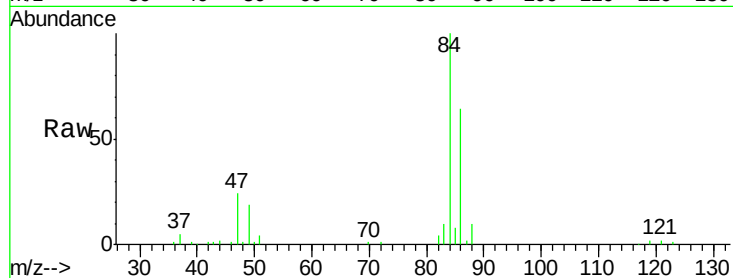
#25
Chloroform
Concen: 2.554 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 83 Resp: 7185
Ion Ratio Lower Upper
83 100
85 83.4 45.4 84.4

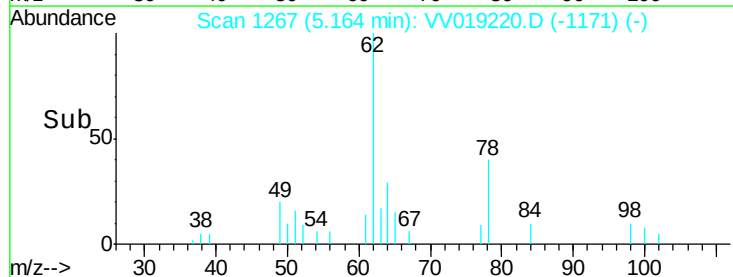
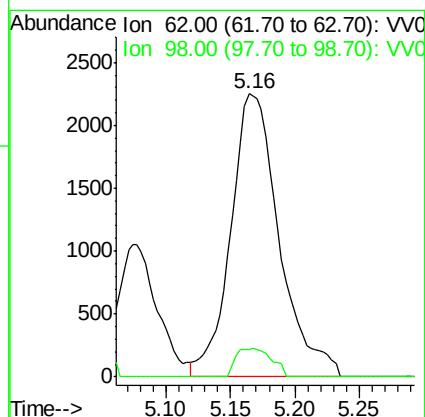
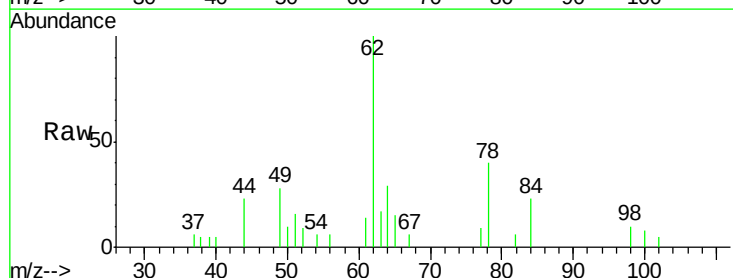
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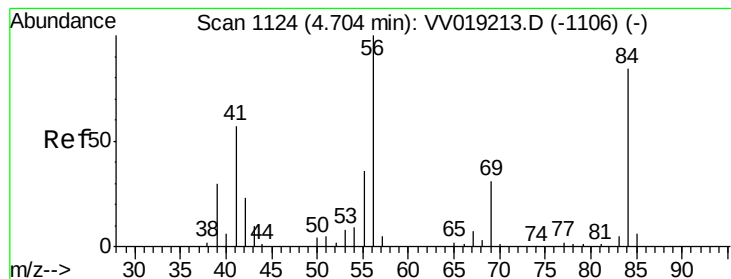
MMDadoda
11/4/2020 10:44:55 AM



#27
1,2-Dichloroethane
Concen: 2.459 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion: 62 Resp: 5879
Ion Ratio Lower Upper
62 100
98 9.7 6.8 10.2





#29

Cyclohexane

Concen: 1.792 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

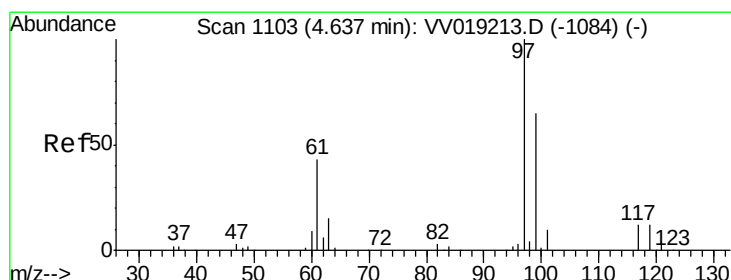
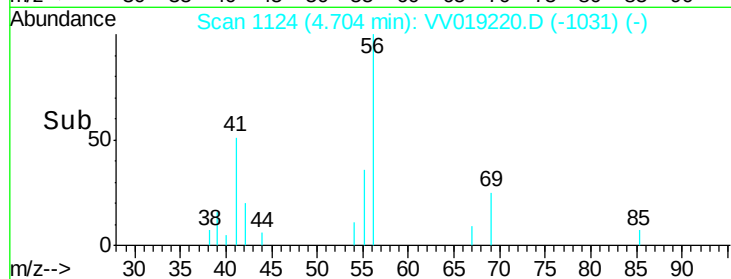
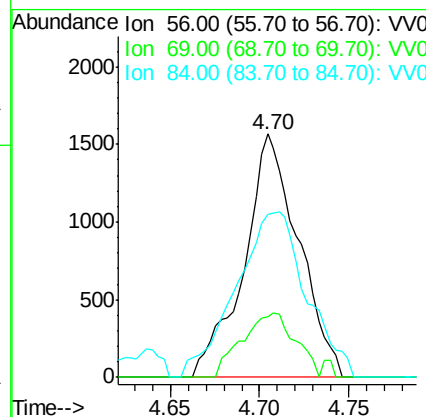
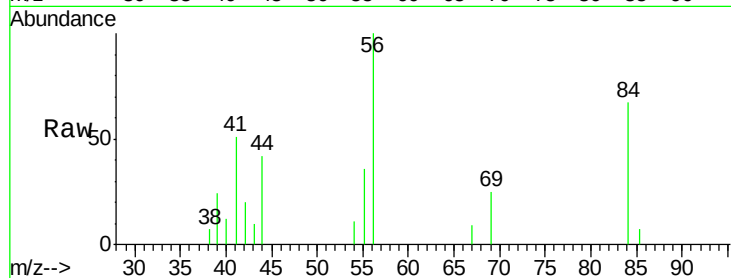
ClientSampleId :

MDL-ME-SOIL-01

Tot Ion:	56	Resp:	3345
Ion	Ratio	Lower	Upper
56	100		
69	25.7	24.6	36.8
84	87.8	70.5	105.7

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#30

1,1,1-Trichloroethane

Concen: 2.143 ug/L

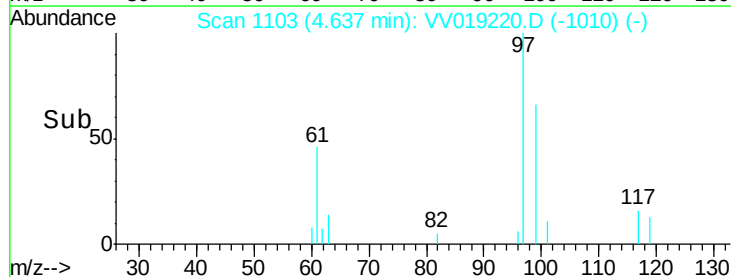
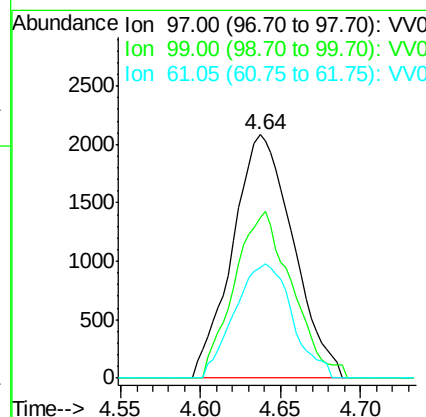
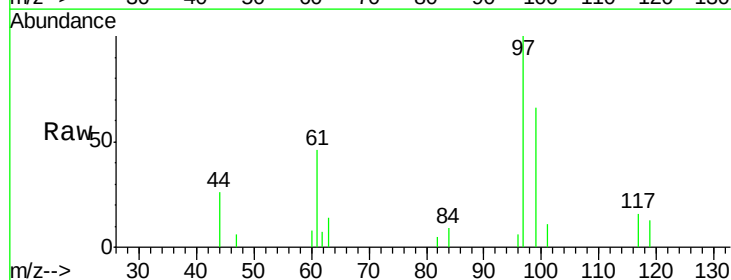
RT: 4.64 min Scan# 1103

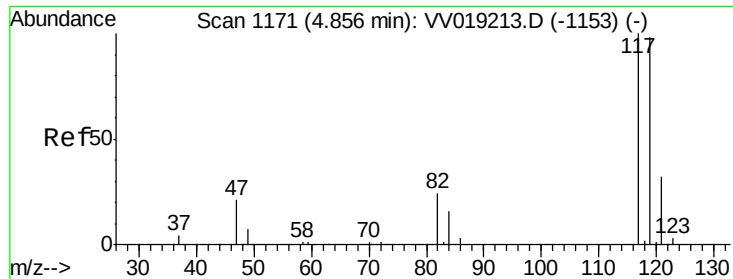
Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tgt Ion:	97	Resp:	5421
Ion	Ratio	Lower	Upper
97	100		
99	64.5	52.0	78.0
61	44.5	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.060 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion:117 Resp: 4500

Ion Ratio Lower Upper

117 100

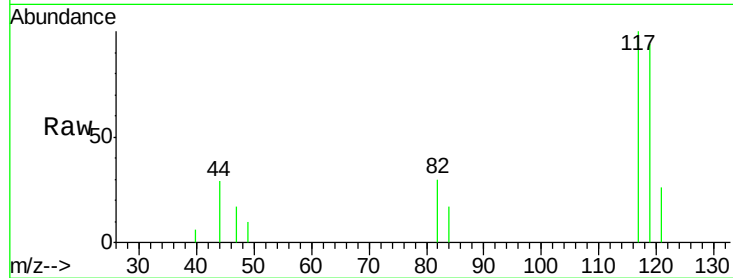
119 100.8 77.8 116.6

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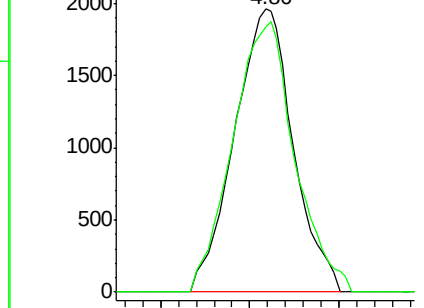
MMDadoda

11/4/2020 10:44:55 AM

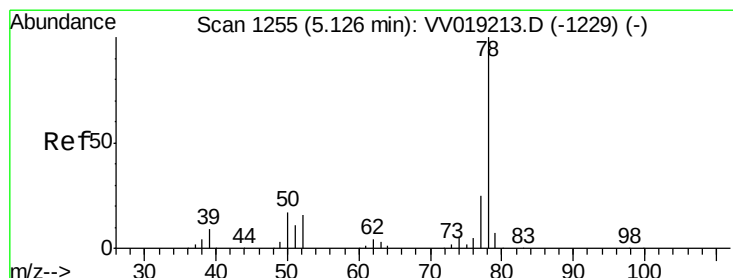
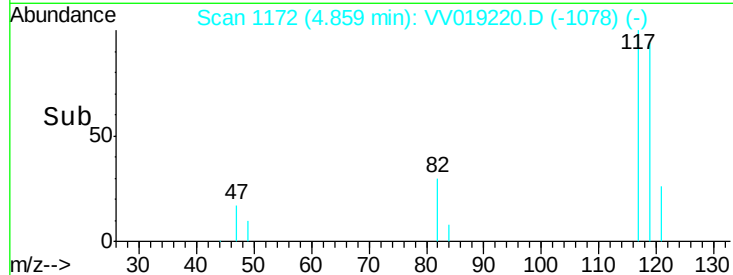


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#33

Benzene

Concen: 2.307 ug/L

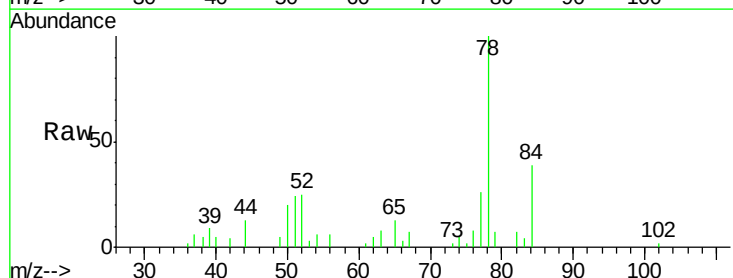
RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

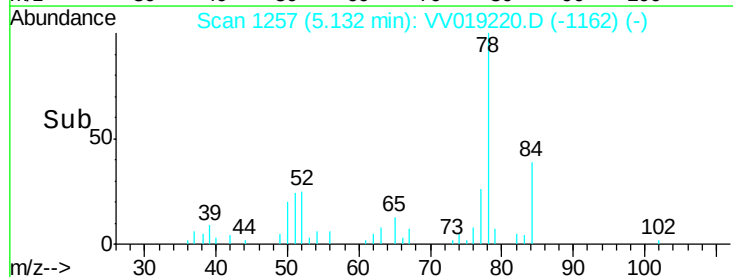
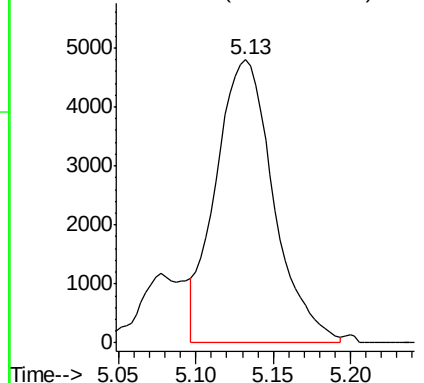
Lab File: VV019220.D

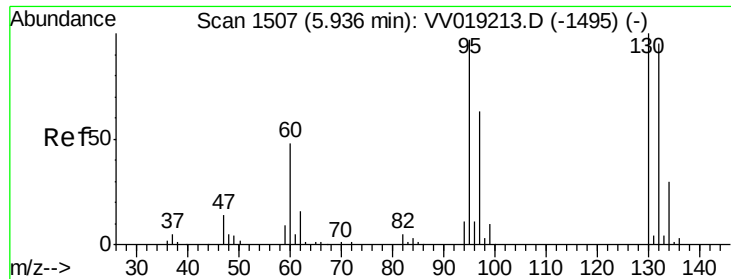
Acq: 03 Nov 2020 00:30

Tgt Ion: 78 Resp: 12504



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 2.227 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 95 Resp: 3280

Ion Ratio Lower Upper

95 100

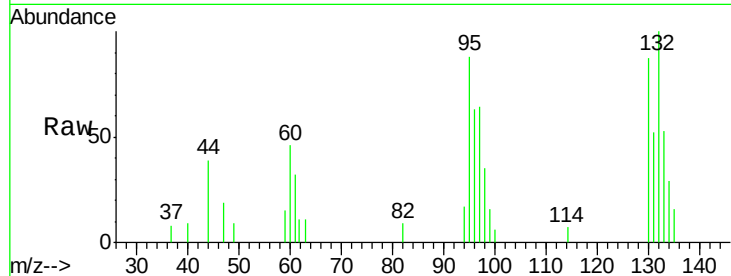
97 73.1 45.4 84.4

132 114.2 68.5 127.3

130 99.1 72.0 133.6

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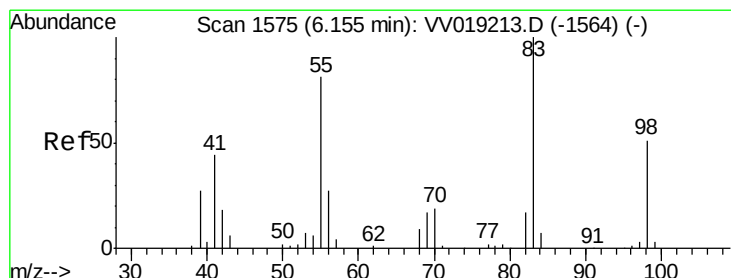
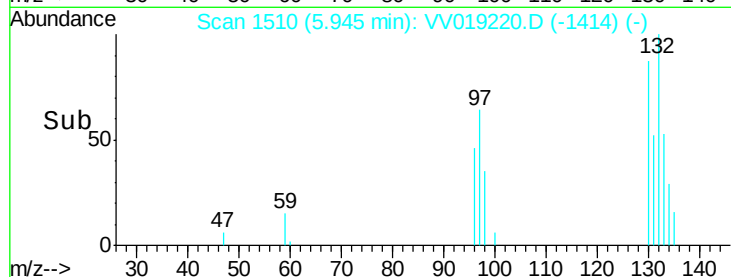
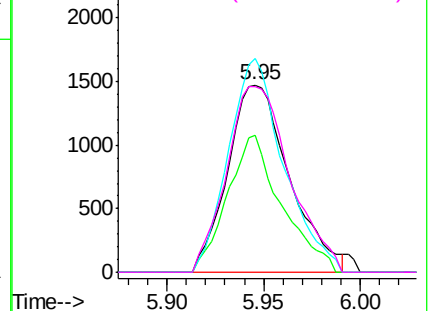
Abundance

Ion 95.00 (94.70 to 95.70): VV019213.D (-1495) (-)

Ion 97.00 (96.70 to 97.70): VV019213.D (-1495) (-)

Ion 132.00 (131.70 to 132.70): VV019213.D (-1495) (-)

Ion 130.00 (129.70 to 130.70): VV019213.D (-1495) (-)



#35

Methylcyclohexane

Concen: 1.874 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

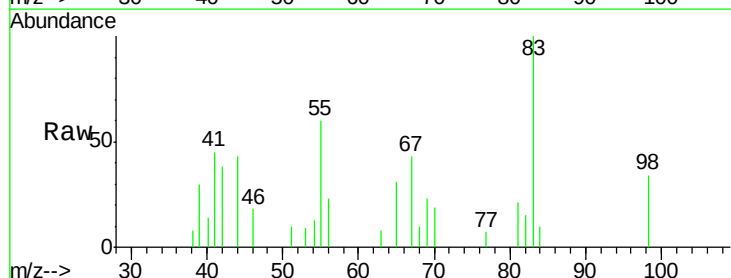
Tgt Ion: 83 Resp: 3342

Ion Ratio Lower Upper

83 100

55 63.6 62.8 94.2

98 39.2 38.6 58.0

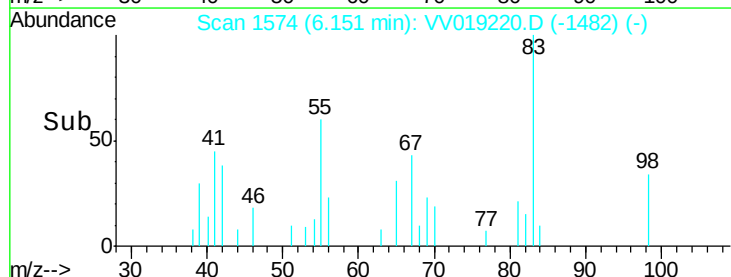
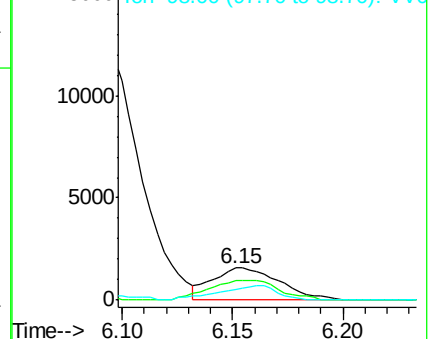


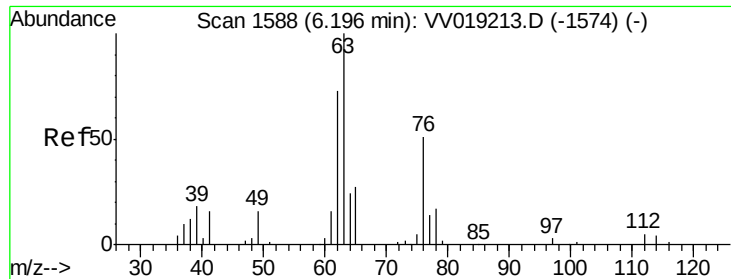
Abundance

Ion 83.00 (82.70 to 83.70): VV019213.D (-1564) (-)

Ion 55.00 (54.70 to 55.70): VV019213.D (-1564) (-)

Ion 98.00 (97.70 to 98.70): VV019213.D (-1564) (-)





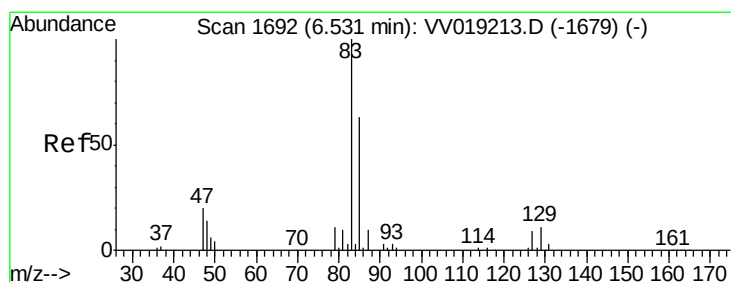
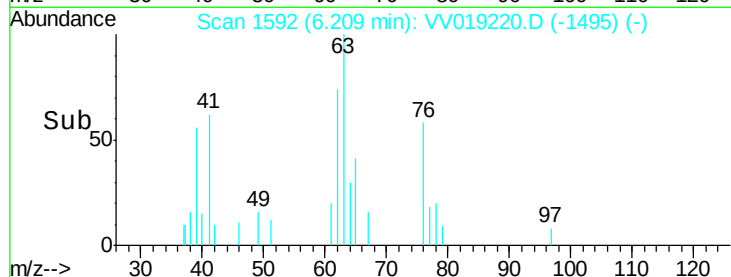
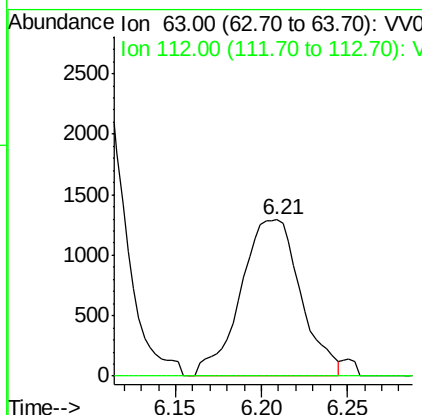
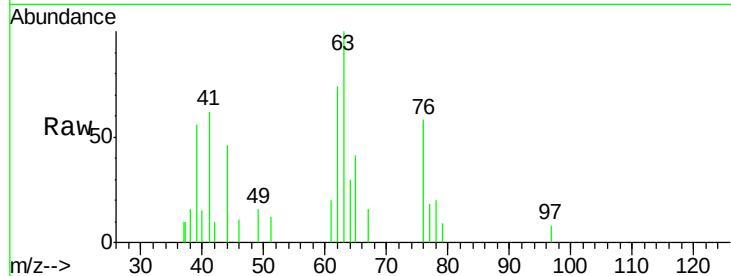
#37
 1,2-Dichloropropane
 Concen: 2.169 ug/L
 RT: 6.21 min Scan# 1592
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion: 63 Resp: 3138
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#

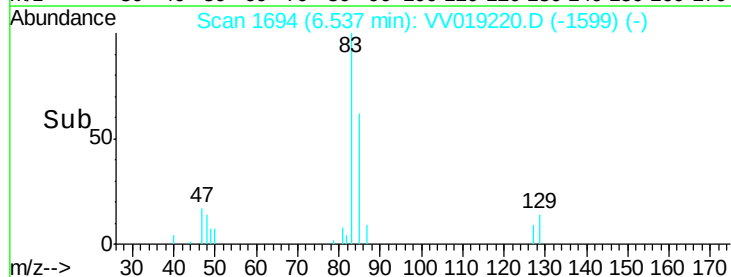
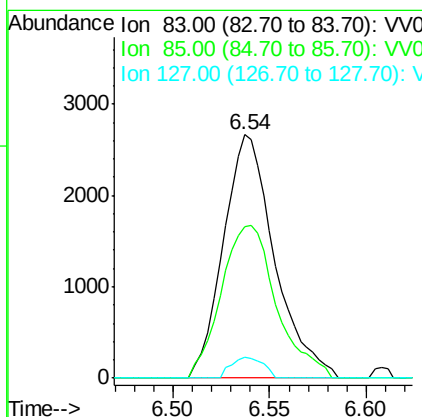
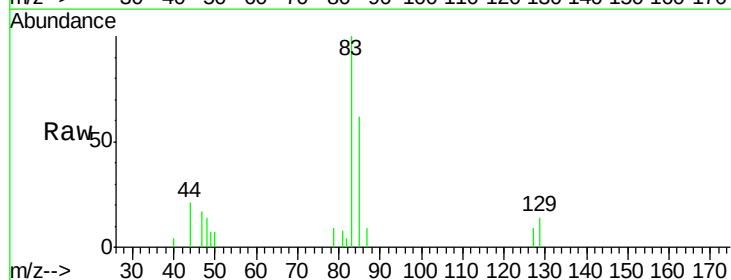
Manual Integrations
 APPROVED

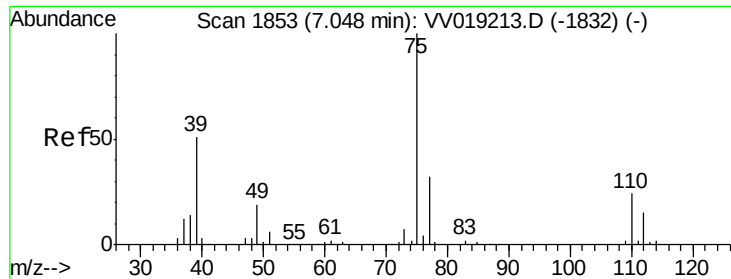
MMDadoda
 11/4/2020 10:44:55 AM



#38
 Bromodichloromethane
 Concen: 2.357 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion: 83 Resp: 4906
 Ion Ratio Lower Upper
 83 100
 85 62.2 44.0 81.8
 127 8.7 7.3 10.9





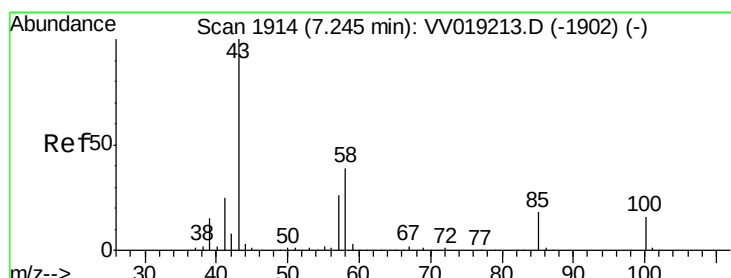
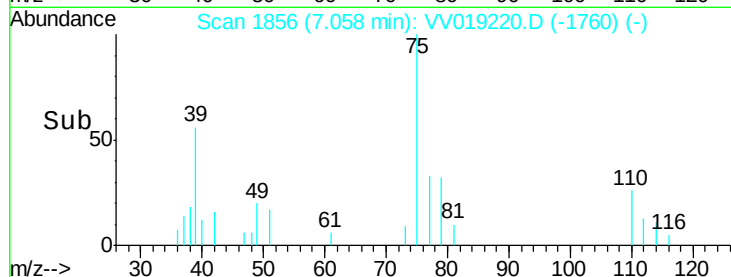
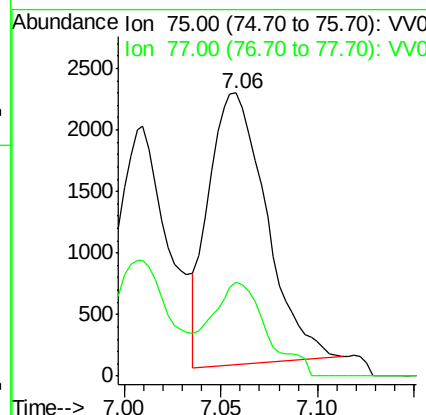
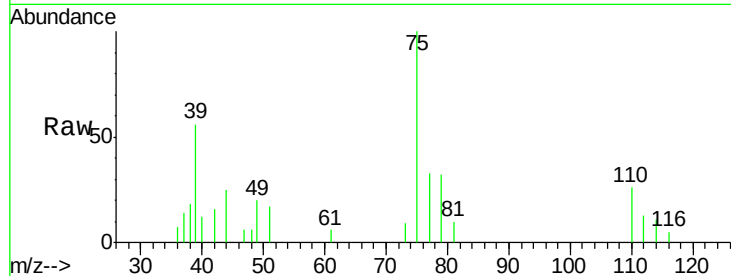
#39
 cis-1,3-Dichloropropene
 Concen: 1.972 ug/L
 RT: 7.06 min Scan# 1856
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion: 75 Resp: 4564
 Ion Ratio Lower Upper
 75 100
 77 33.0 22.2 41.2

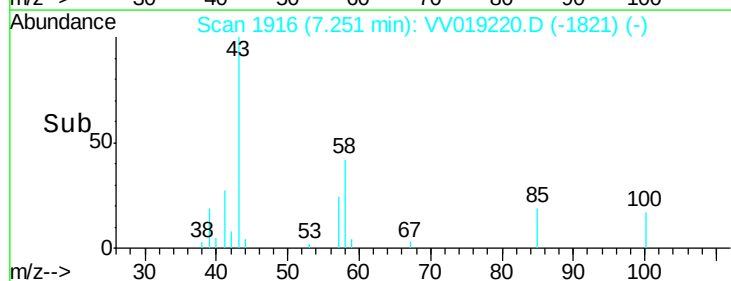
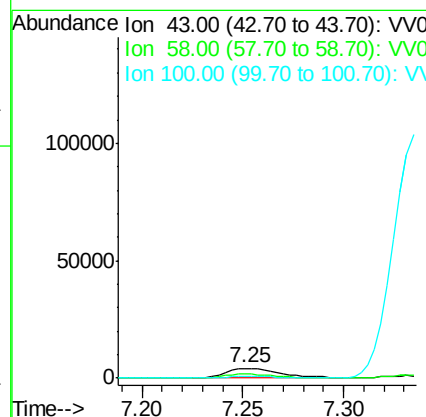
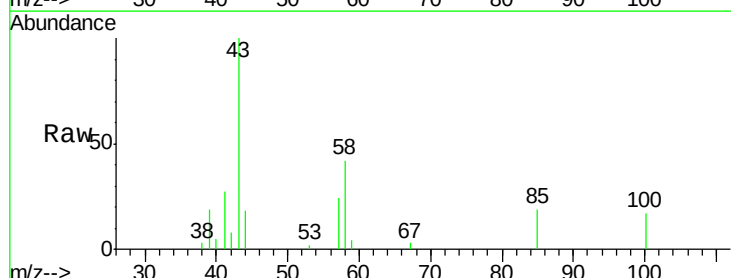
Manual Integrations
 APPROVED

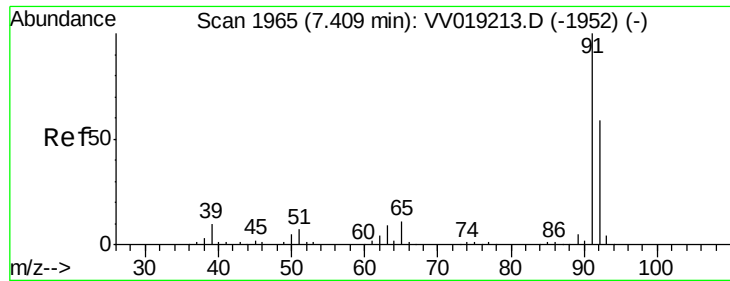
MMDadoda
 11/4/2020 10:44:55 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.960 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion: 43 Resp: 7695
 Ion Ratio Lower Upper
 43 100
 58 39.7 30.5 45.7
 100 16.7 12.7 19.1





#42

Toluene

Concen: 2.434 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-01

Tot Ion: 91 Resp: 14263

Ion Ratio Lower Upper

91 100

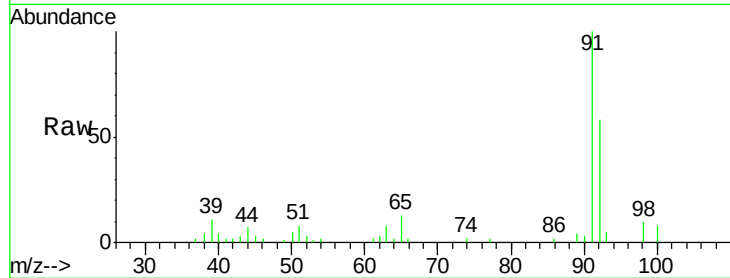
92 58.2 40.6 75.4

Manual Integrations

APPROVED

MMDadoda

11/4/2020 10:44:55 AM



Abundance Ion 91.00 (90.70 to 91.70): VV019213.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV019213.D (-1952) (-)

7.41

8000

6000

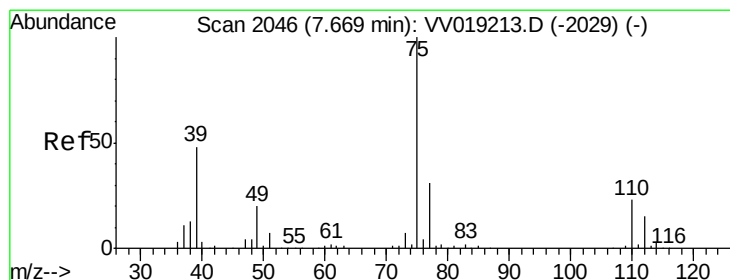
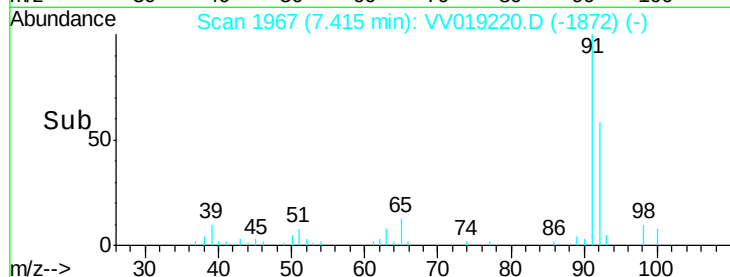
4000

2000

0

7.35 7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.197 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019220.D

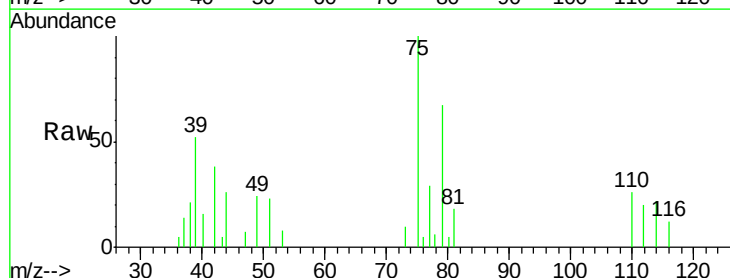
Acq: 03 Nov 2020 00:30

Tgt Ion: 75 Resp: 5211

Ion Ratio Lower Upper

75 100

77 28.8 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019213.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019213.D (-2029) (-)

7.68

2500

2000

1500

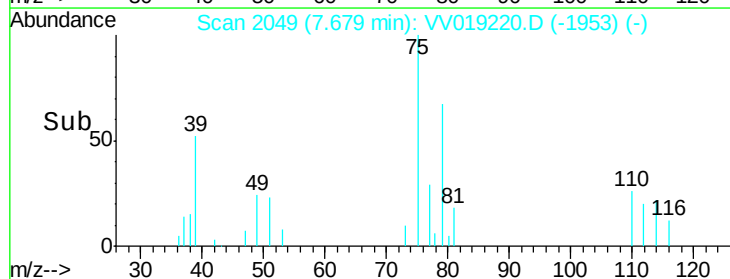
1000

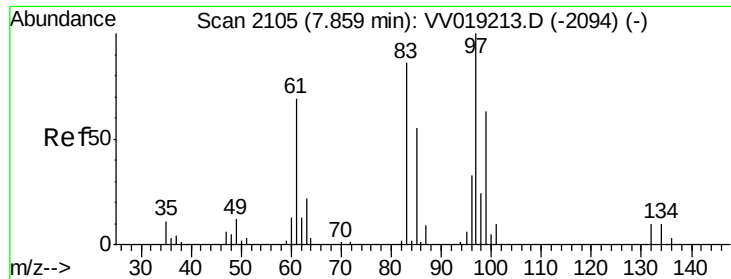
500

0

7.65 7.70 7.75

Time-->





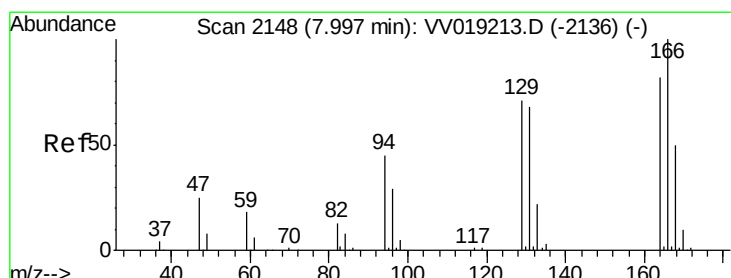
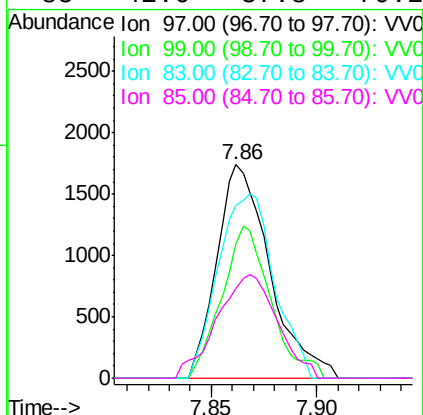
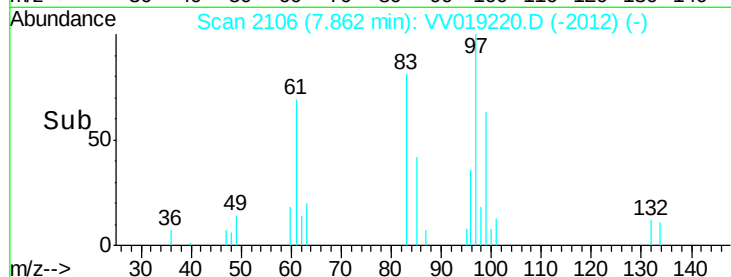
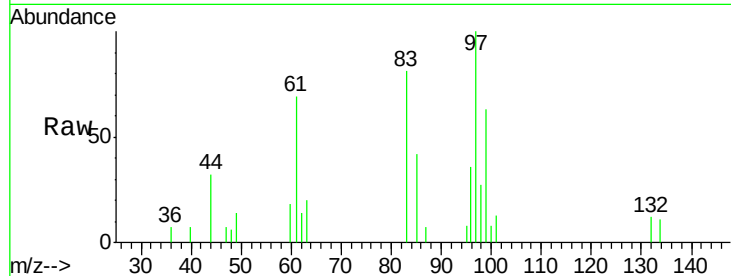
#45
1,1,2-Trichloroethane
Concen: 2.126 ug/L
RT: 7.86 min Scan# 2106
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion:	97	Resp:	3040
Ion	Ratio	Lower	Upper
97	100		
99	63.1	45.1	83.9
83	81.1	57.6	107.0
85	42.0	37.8	70.2

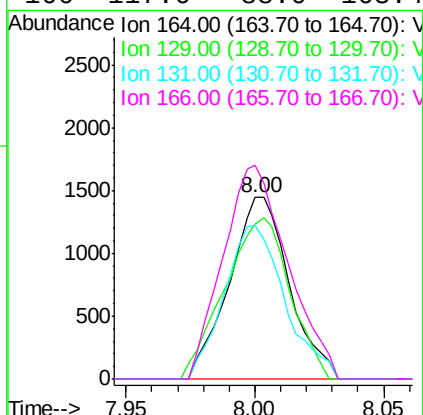
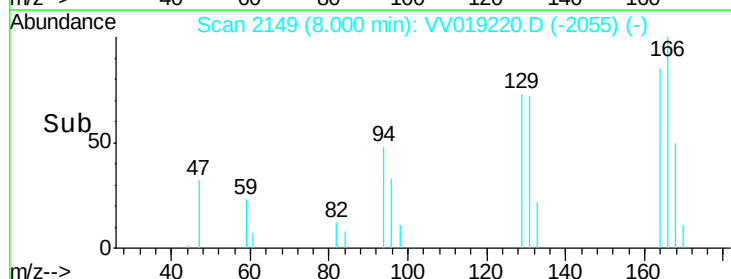
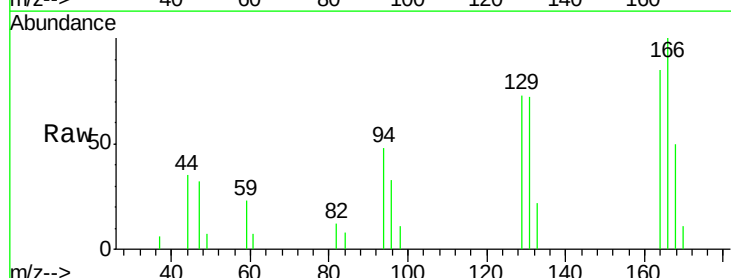
Manual Integrations
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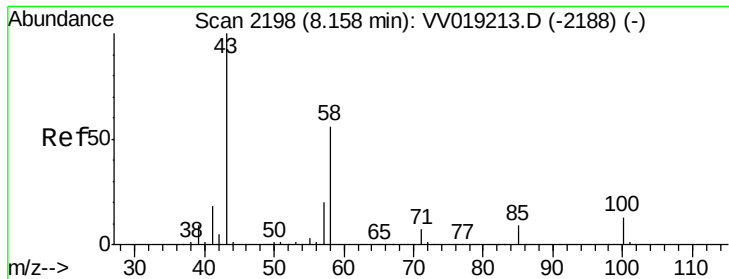
MMDadoda
11/4/2020 10:44:55 AM



#46
Tetrachloroethene
Concen: 1.947 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion:	164	Resp:	2340
Ion	Ratio	Lower	Upper
164	100		
129	85.5	62.6	116.3
131	84.6	59.0	109.6
166	117.6	88.0	163.4





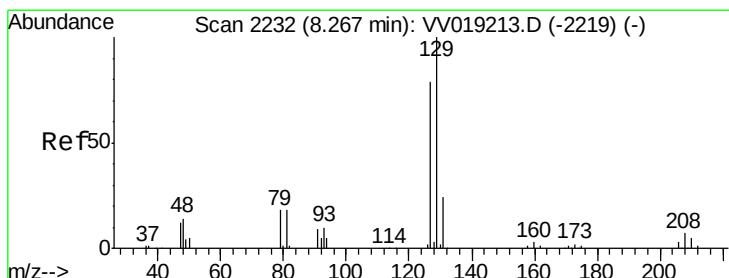
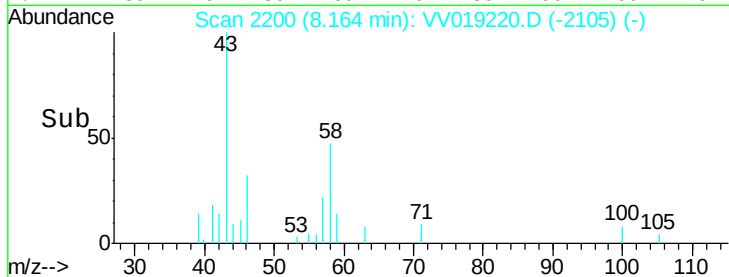
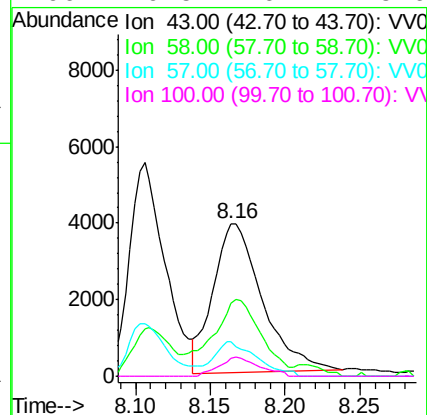
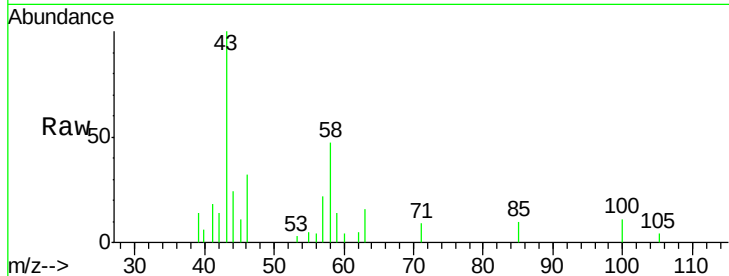
#48
2-Hexanone
Concen: 6.030 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.9	42.6	63.8
57	19.8	15.8	23.8
100	10.5	10.4	15.6

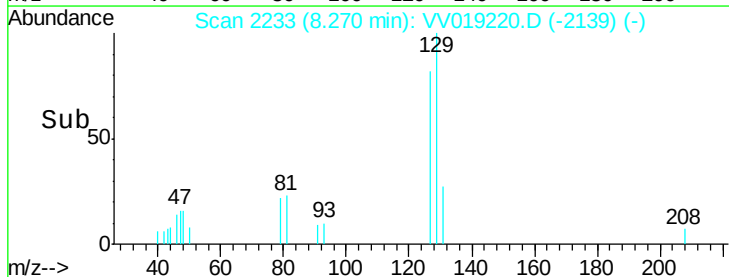
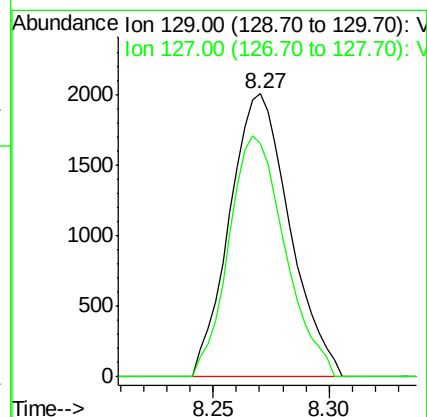
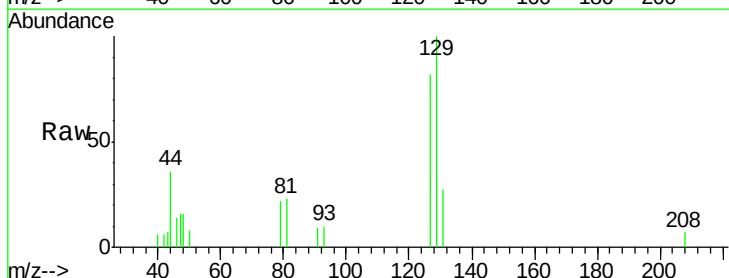
Manual Integrations
APPROVED

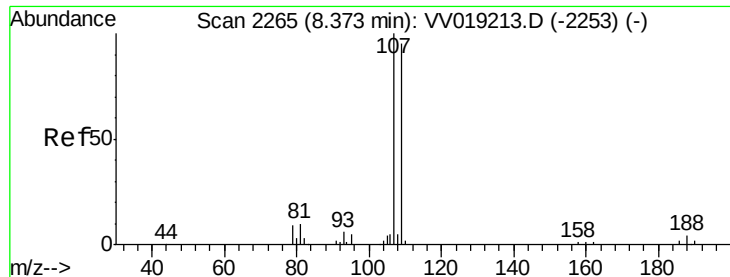
MMDadoda
11/4/2020 10:44:55 AM



#49
Dibromochloromethane
Concen: 2.118 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
129	100		
127	82.3	54.4	101.0





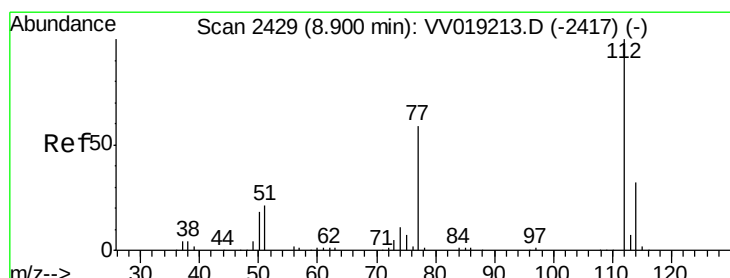
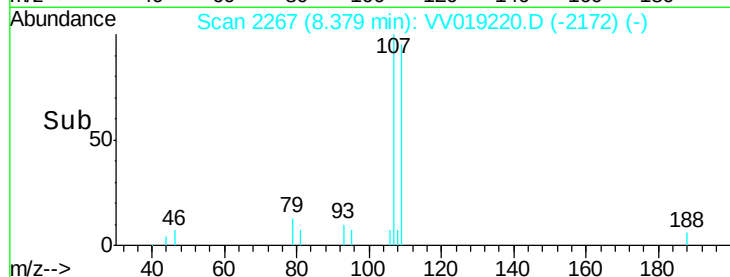
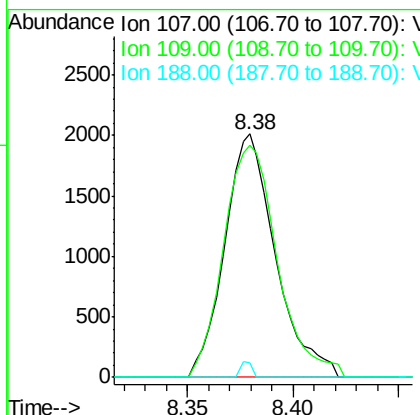
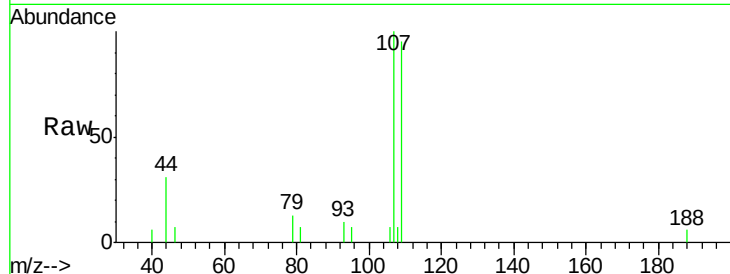
#50
1,2-Dibromoethane
Concen: 2.273 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	95.4	64.8	120.4	
188	6.1	3.8	5.8#	

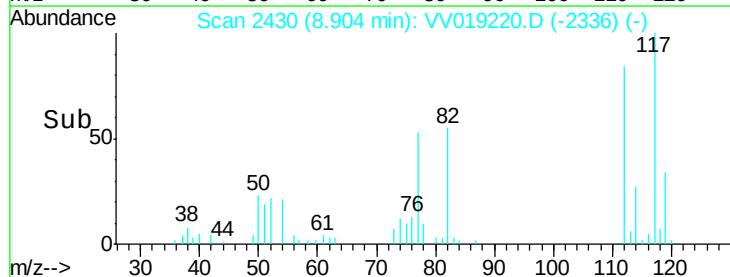
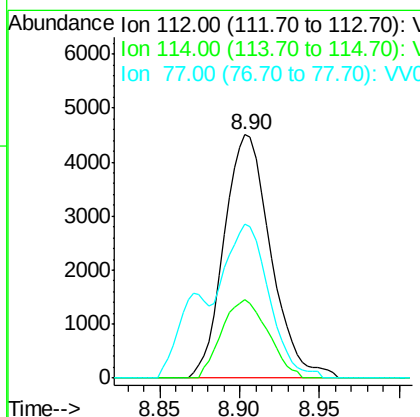
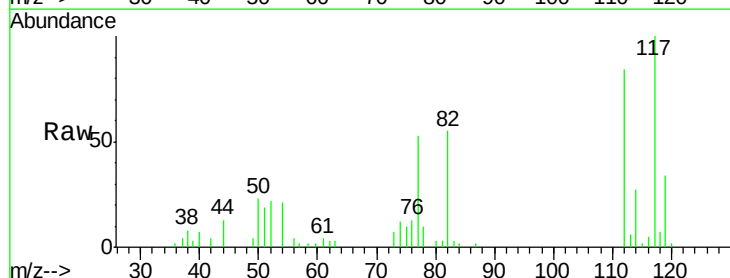
Manual Integrations
APPROVED

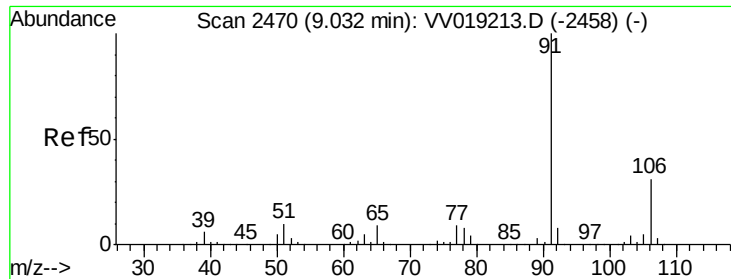
MMDadoda
11/4/2020 10:44:55 AM



#51
Chlorobenzene
Concen: 2.293 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	32.1	22.7	42.1	
77	63.1	47.3	70.9	





#52

Ethylbenzene

Concen: 1.969 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tot Ion: 91 Resp: 12726

Ion Ratio Lower Upper

91 100

106 27.8 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

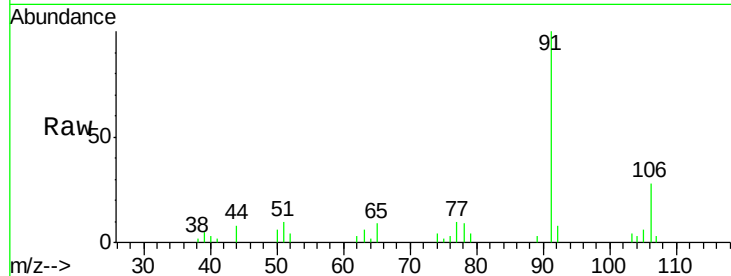
MDL-ME-SOIL-01

Manual Integrations

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11/4/2020 10:44:55 AM



Abundance Ion 91.00 (90.70 to 91.70): VV019213.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV019213.D (-2458) (-)

9.04

8000

6000

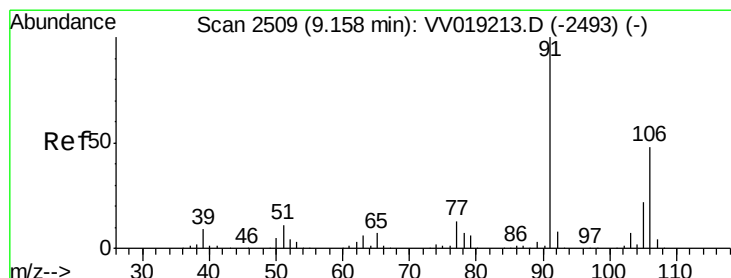
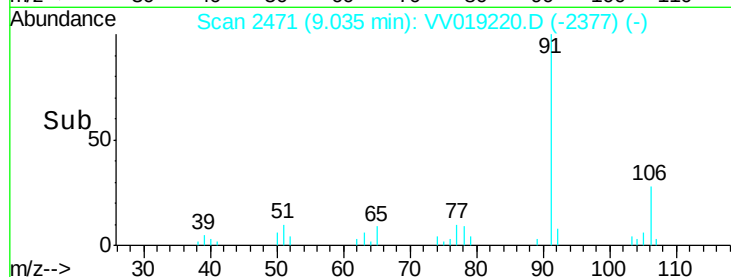
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 1.892 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019220.D

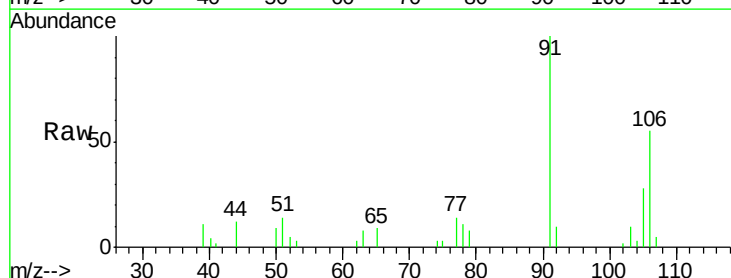
Acq: 03 Nov 2020 00:30

Tgt Ion: 106 Resp: 4578

Ion Ratio Lower Upper

106 100

91 181.2 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019213.D (-2493) (-)

Ion 91.00 (90.70 to 91.70): VV019213.D (-2493) (-)

9.16

5000

4000

3000

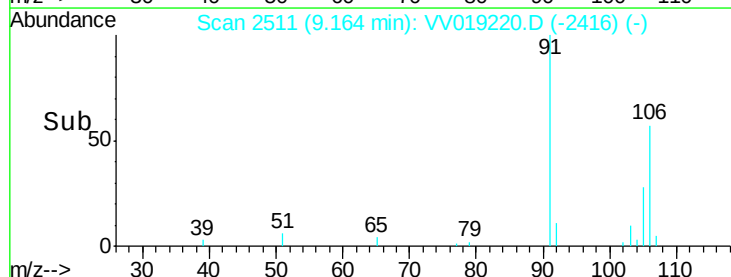
2000

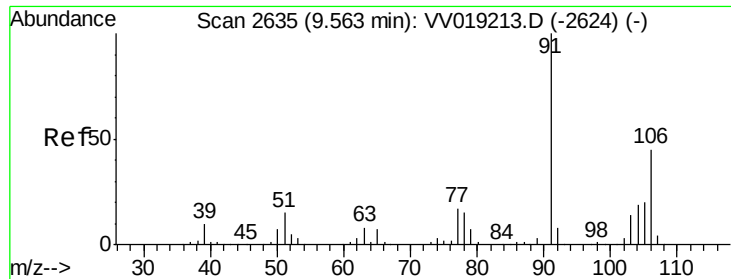
1000

0

9.10 9.15 9.20

Time-->





#54

o-Xylene

Concen: 2.071 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tot Ion:106 Resp: 4940

Ion Ratio Lower Upper

106 100

91 190.7 151.6 281.6

Instrument :

MSVOA_V

ClientSampleId :

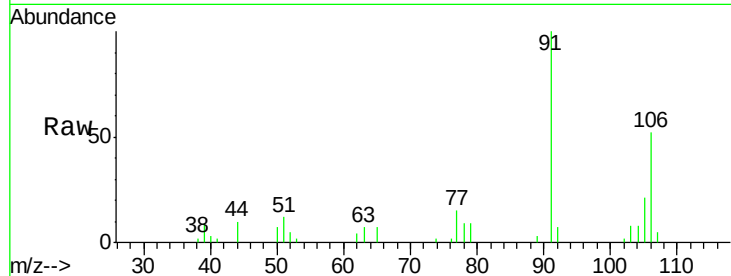
MDL-ME-SOIL-01

Manual Integrations

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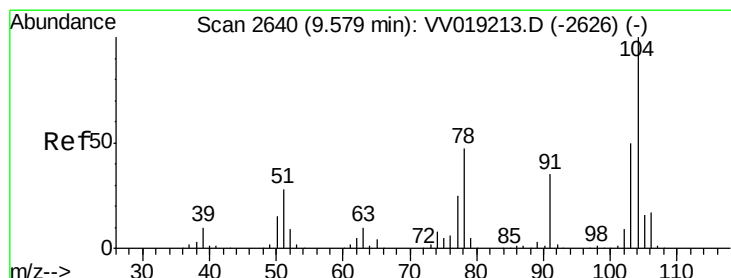
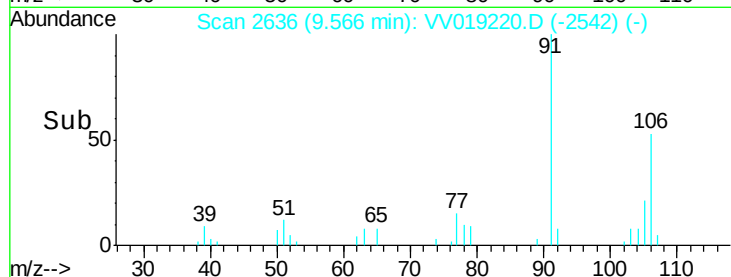
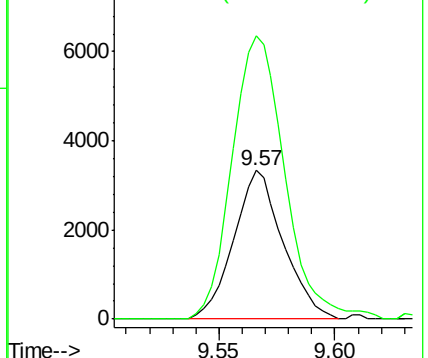
MMDadoda

11/4/2020 10:44:55 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.828 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VV019220.D

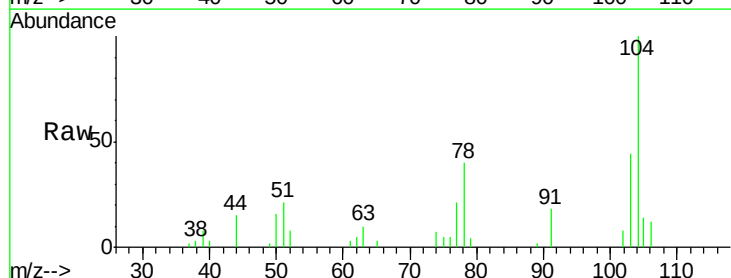
Acq: 03 Nov 2020 00:30

Tgt Ion:104 Resp: 7763

Ion Ratio Lower Upper

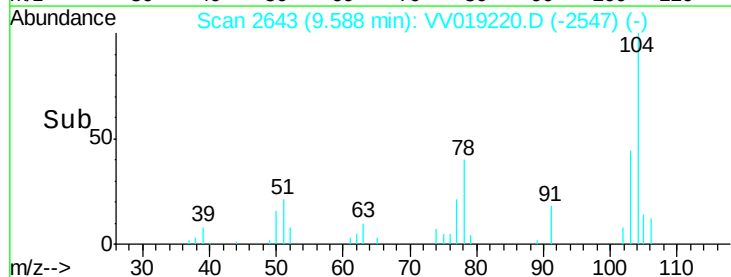
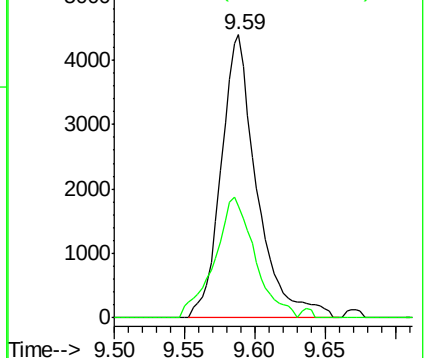
104 100

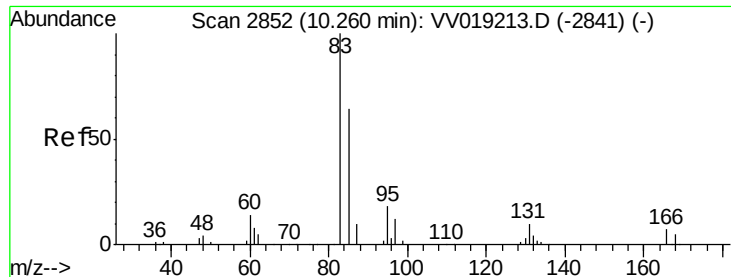
78 39.7 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





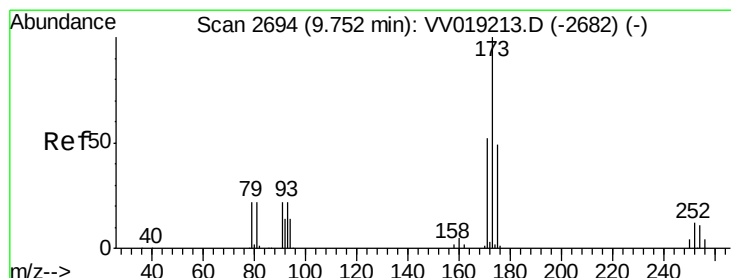
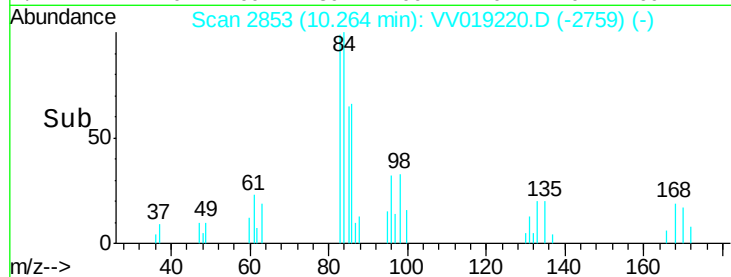
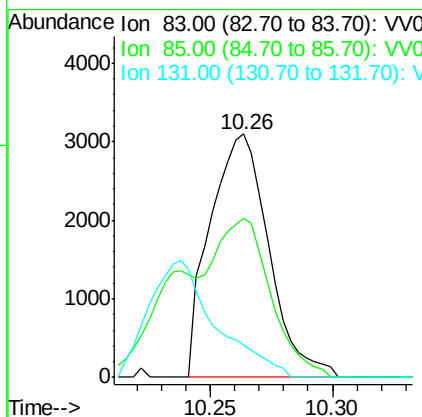
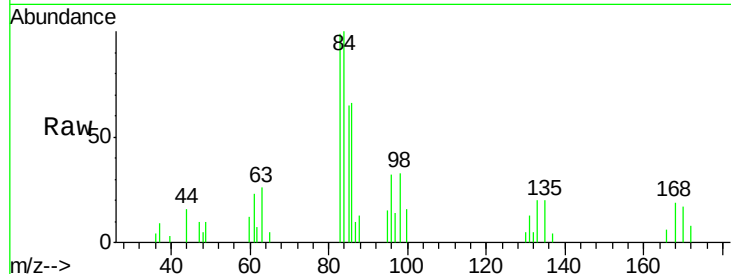
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.395 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.5	45.0	83.6
131	13.5	8.9	13.3#

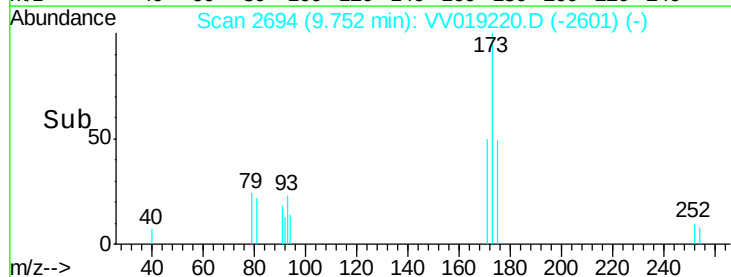
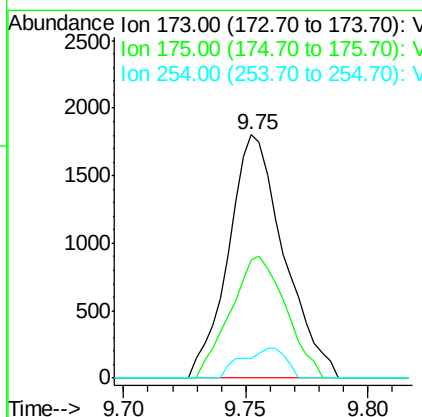
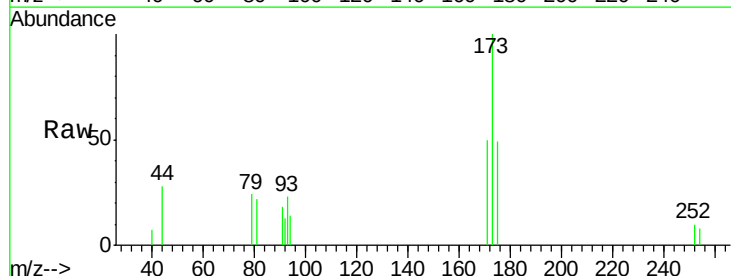
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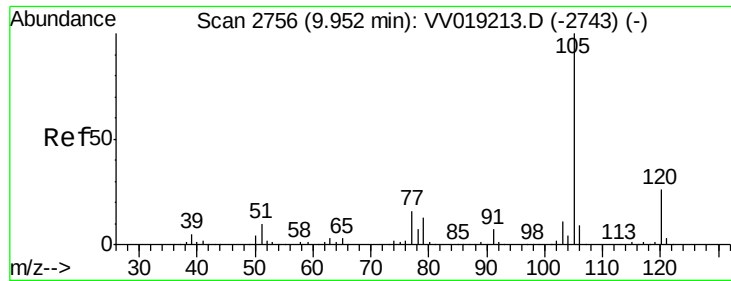
MMDadoda
 11/4/2020 10:44:55 AM



#59
 Bromoform
 Concen: 2.322 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.4	57.6
254	6.1	9.0	13.6#





#60

Isopropylbenzene

Concen: 1.822 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Instrument :

MSVOA_V

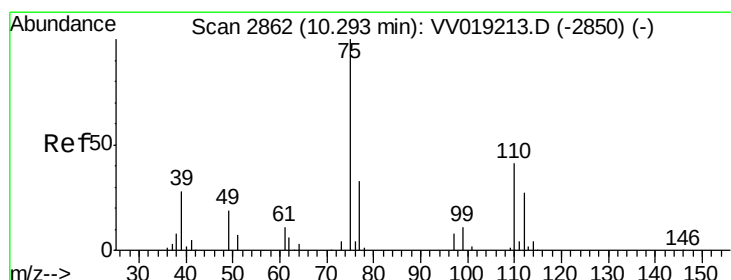
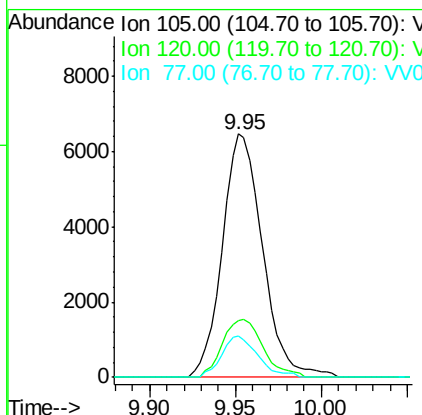
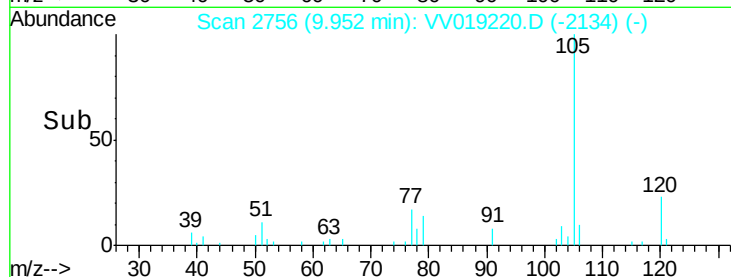
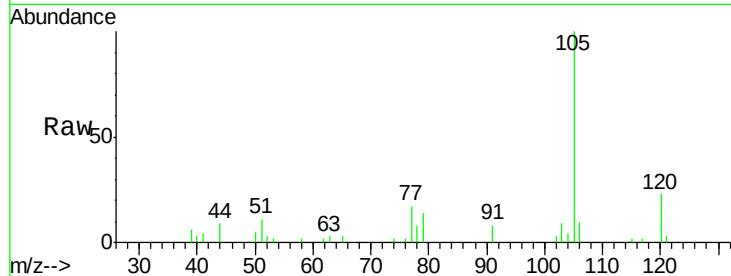
ClientSampleId :

MDL-ME-SOIL-01

Tot Ion:	105	Resp:	10535
Ion Ratio	Lower	Upper	
105	100		
120	24.0	21.0	31.4
77	15.1	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.364 ug/L

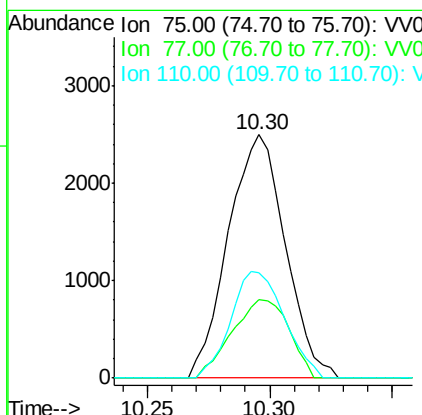
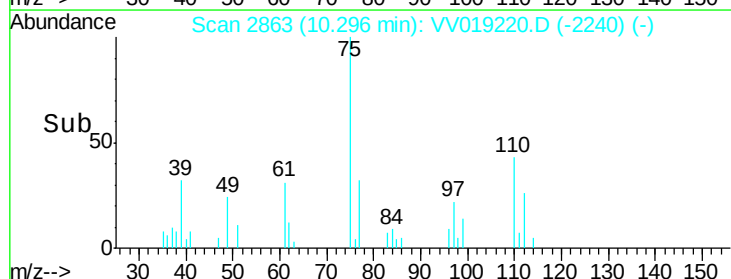
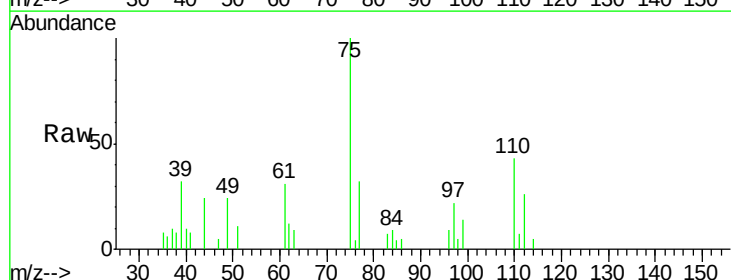
RT: 10.30 min Scan# 2863

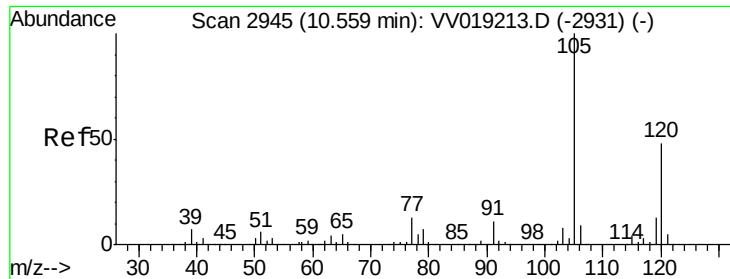
Delta R.T. 0.00 min

Lab File: VV019220.D

Acq: 03 Nov 2020 00:30

Tgt Ion:	75	Resp:	4052
Ion Ratio	Lower	Upper	
75	100		
77	32.2	24.8	37.2
110	41.2	33.4	50.2





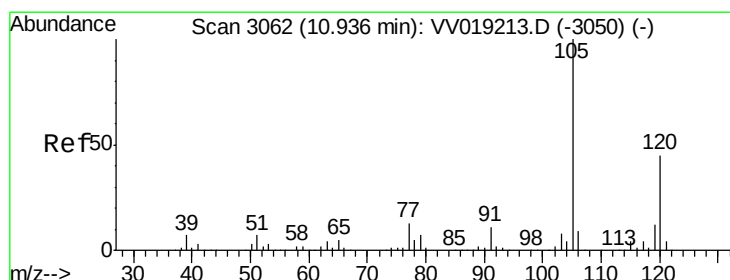
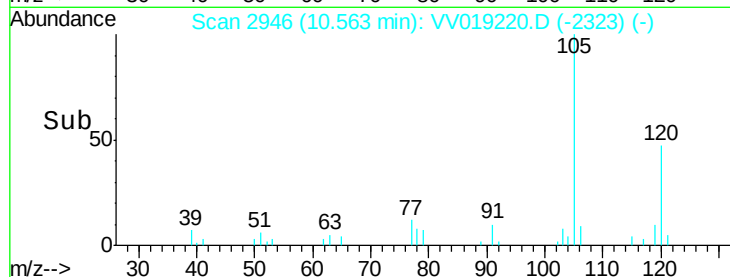
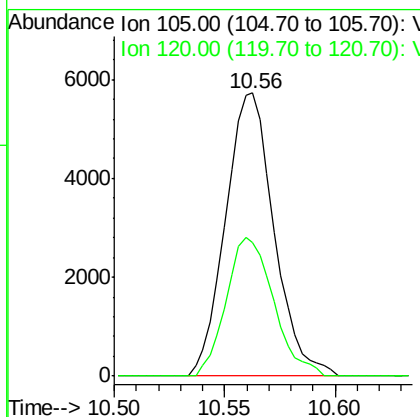
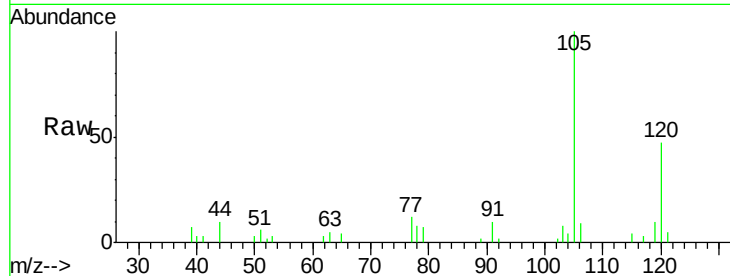
#62
 1,3,5-Trimethylbenzene
 Concen: 1.817 ug/L
 RT: 10.56 min Scan# 2946
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion:105 Resp: 8751
 Ion Ratio Lower Upper
 105 100
 120 47.8 38.3 57.5

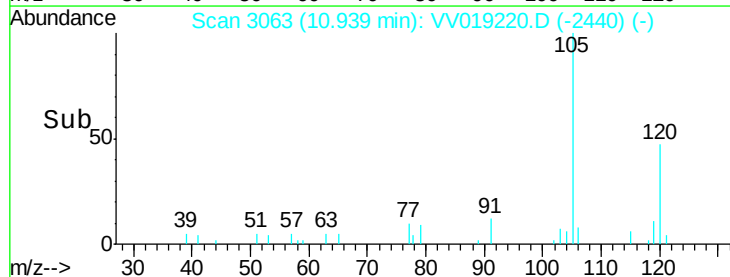
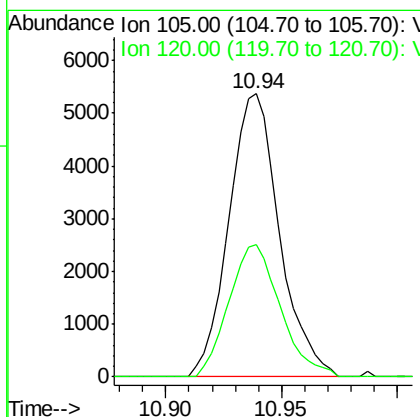
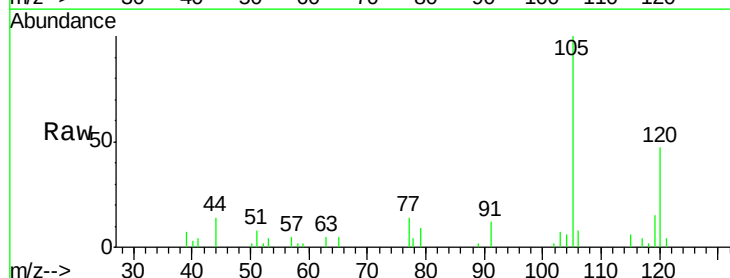
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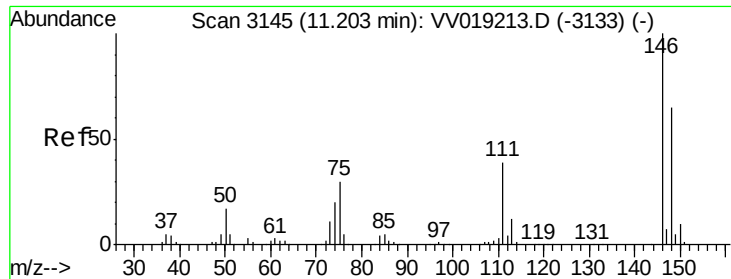
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 11/4/2020 10:44:55 AM



#63
 1,2,4-Trimethylbenzene
 Concen: 1.727 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion:105 Resp: 8137
 Ion Ratio Lower Upper
 105 100
 120 47.6 35.7 53.5





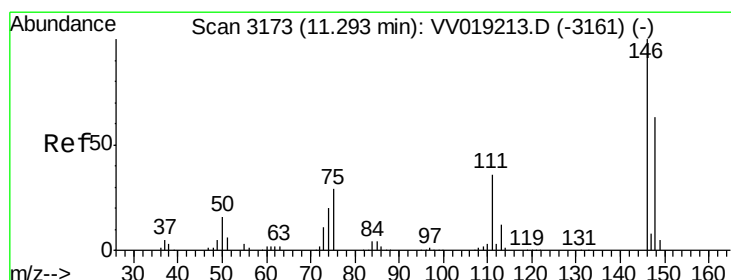
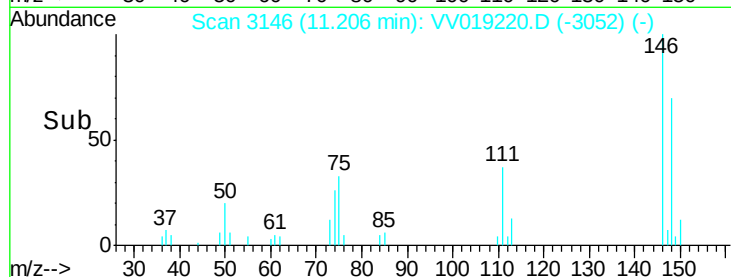
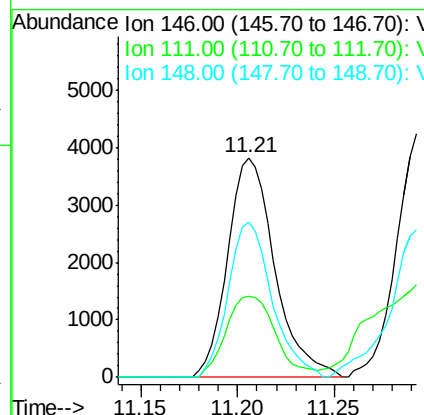
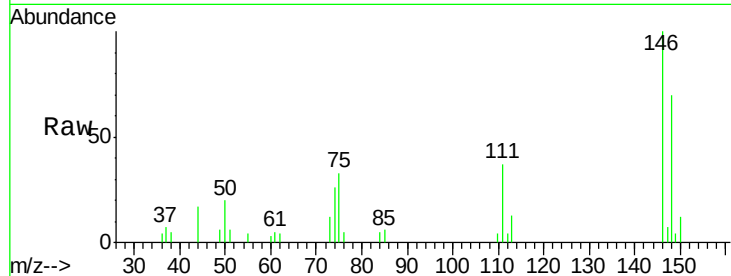
#64
 1,3-Dichlorobenzene
 Concen: 2.147 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	27.3	50.7
148	70.4	45.2	84.0

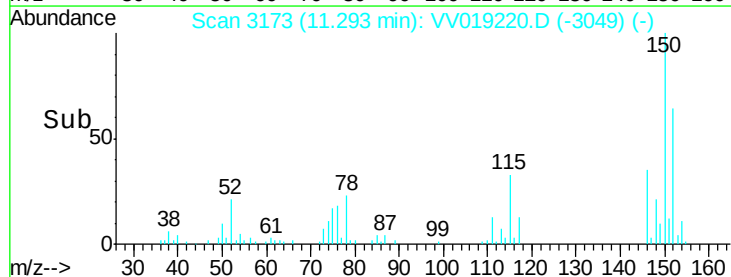
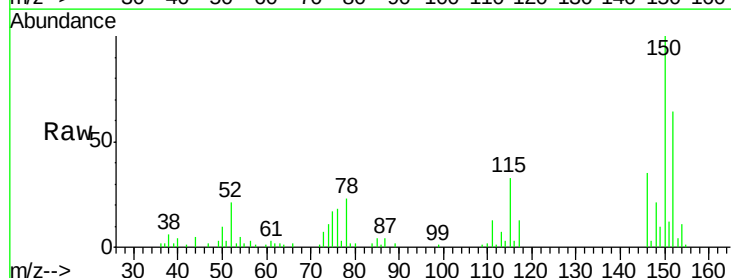
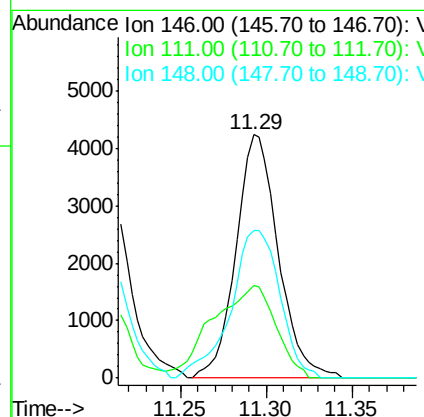
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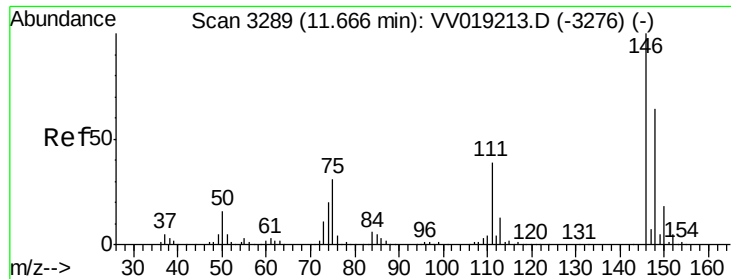
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#65
 1,4-Dichlorobenzene
 Concen: 2.324 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	25.9	48.1
148	60.5	44.9	83.5





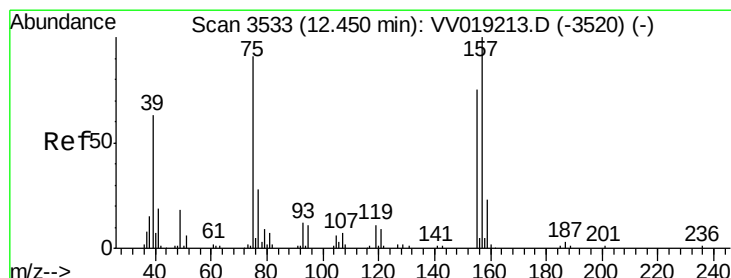
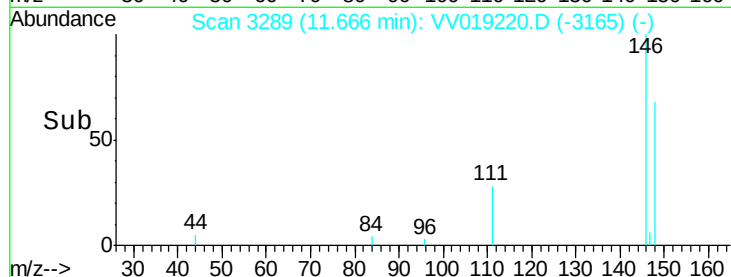
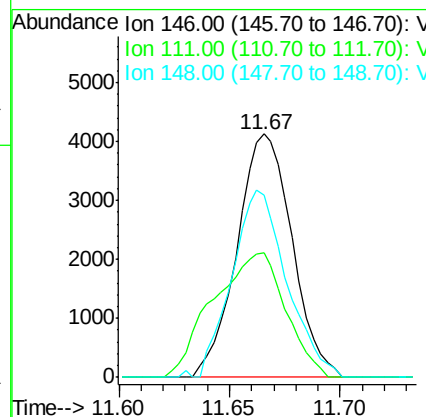
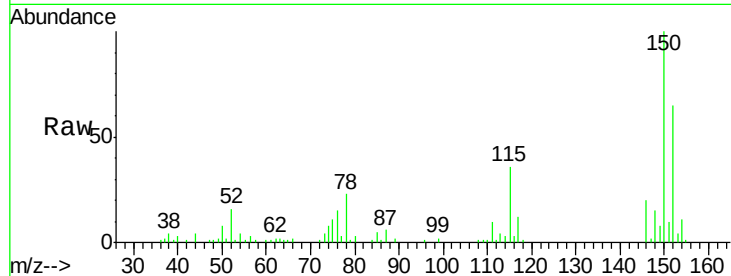
#67
 1,2-Dichlorobenzene
 Concen: 2.315 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.0	32.6	48.8#
148	74.7	50.1	75.1

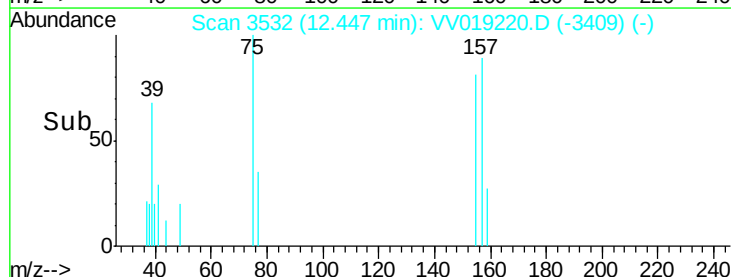
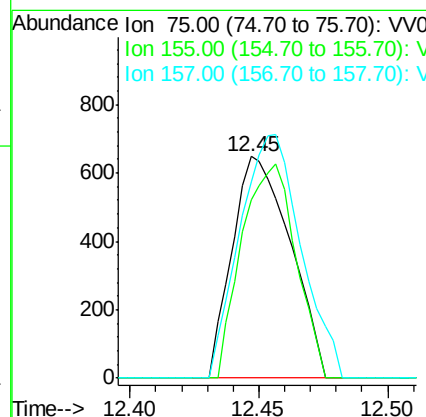
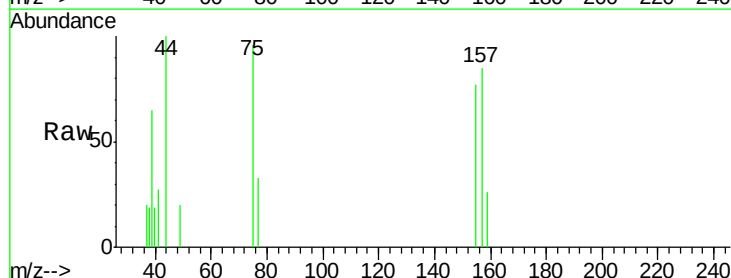
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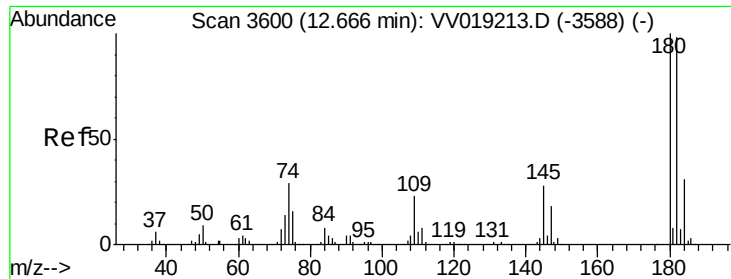
MMDadoda
 11/4/2020 10:44:55 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.032 ug/L
 RT: 12.45 min Scan# 3532
 Delta R.T. -0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.7	65.8	98.6
157	88.9	86.3	129.5





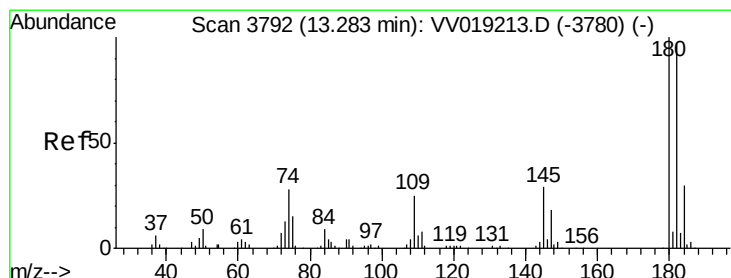
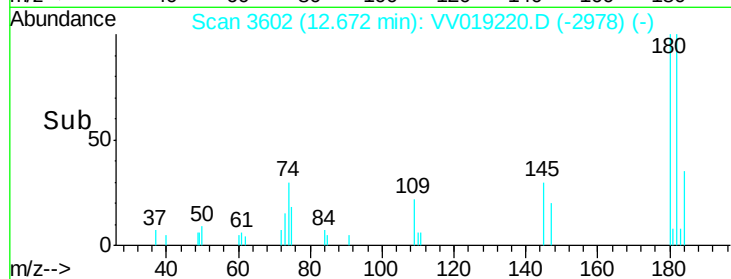
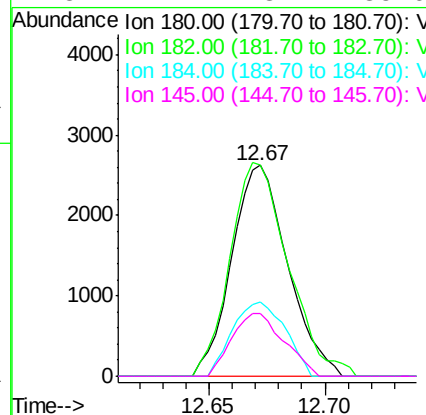
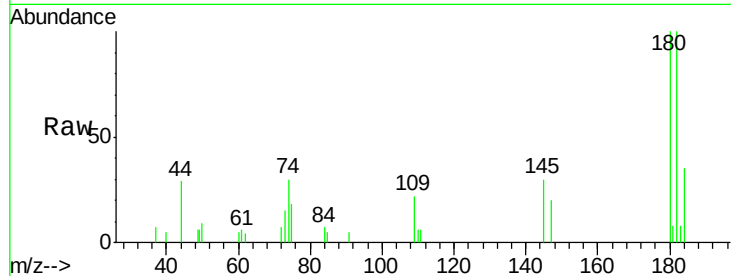
#69
 1,3,5-Trichlorobenzene
 Concen: 2.025 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.9	77.7	116.5
184	33.1	24.9	37.3
145	27.7	23.4	35.0

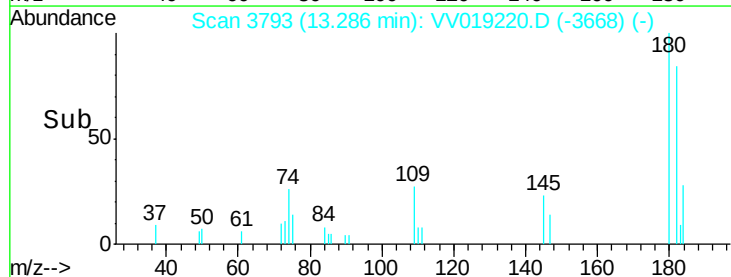
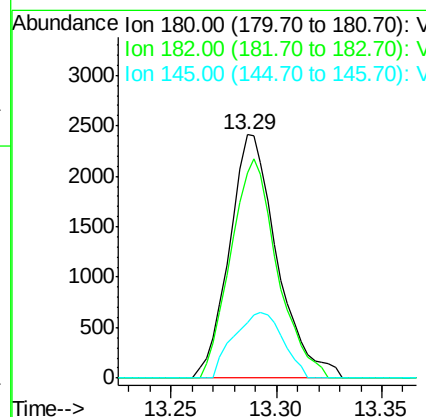
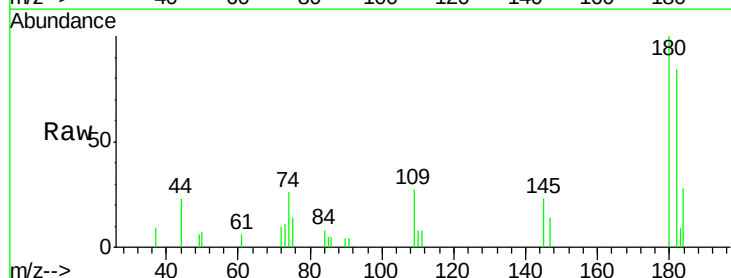
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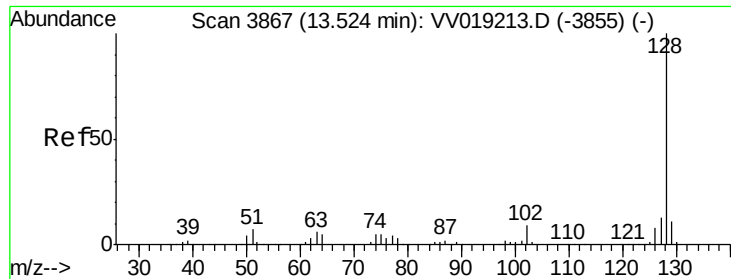
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 11/4/2020 10:44:55 AM



#70
 1,2,4-trichlorobenzene
 Concen: 1.853 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019220.D
 Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.7	76.6	114.8
145	27.8	23.2	34.8





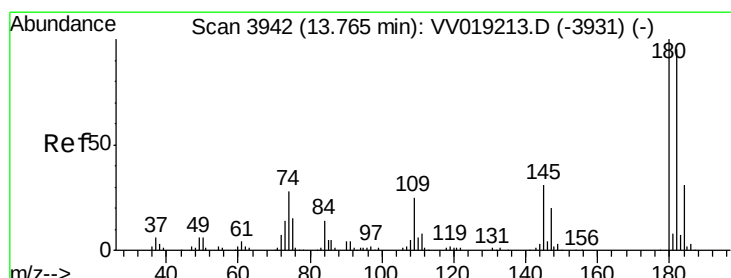
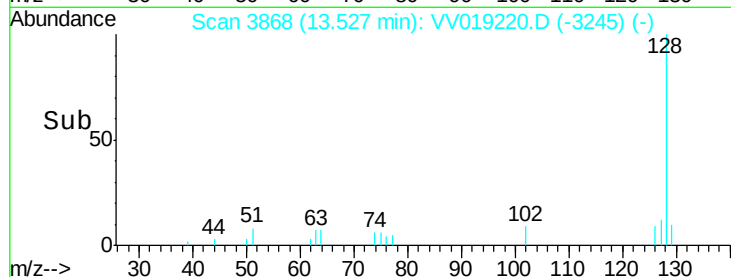
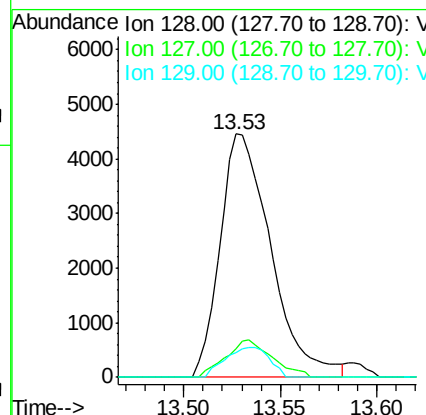
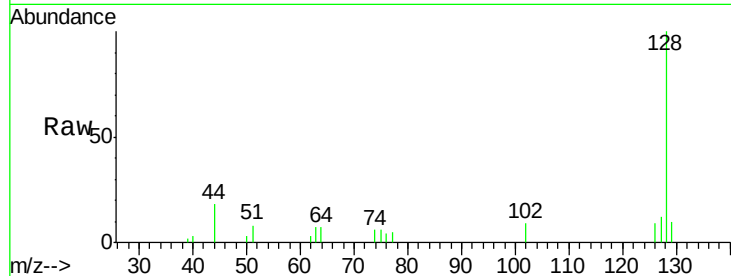
#71
Naphthalene
Concen: 1.416 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. 0.00 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.7	16.1
129	10.6	8.6	13.0

Manual Integrations
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11/4/2020 10:44:55 AM



#72
1,2,3-Trichlorobenzene
Concen: 1.882 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019220.D
Acq: 03 Nov 2020 00:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.8	77.4	116.0
145	31.2	24.7	37.1

