

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019222.D
 Acq On : 03 Nov 2020 01:17
 Operator : SY/MD
 Sample : L4485-17
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Manual Integrations
 APPROVED

MMDadoda
 11/4/2020 10:45:00 AM

Quant Time: Nov 03 06:39:37 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	225339	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	217155	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	106664	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	85248	49.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.04%
7) Chloroethane-d5	1.58	69	73381	53.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.70%
11) 1,1-Dichloroethene-d2	2.12	63	130352	40.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.98%
21) 2-Butanone-d5	3.91	46	109400	114.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.09%
24) Chloroform-d	4.38	84	164531	50.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.10%
26) 1,2-Dichloroethane-d4	5.06	65	118462	52.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.48%
32) Benzene-d6	5.07	84	306847	51.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.34%
36) 1,2-Dichloropropane-d6	6.09	67	94900	53.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.02%
41) Toluene-d8	7.34	98	274129	49.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.16%
43) trans-1,3-Dichloropropene-	7.64	79	50795	50.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.22%
47) 2-Hexanone-d5	8.11	63	69481	99.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.97%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	118730	49.77	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.54%
66) 1,2-Dichlorobenzene-d4	11.65	152	116258	54.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.96%

Target Compounds

				Ovalue
2) Dichlorodifluoromethane	1.14	85	2111	1.529 ug/L 92
3) Chloromethane	1.25	50	2402	1.671 ug/L 99
5) Vinyl chloride	1.32	62	2948	1.970 ug/L # 41
6) Bromomethane	1.53	94	1929	1.918 ug/L 99
8) Chloroethane	1.60	64	2072	2.117 ug/L 93
9) Trichlorofluoromethane	1.77	101	4097	1.654 ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2811	2.388 ug/L # 71
12) 1,1-Dichloroethene	2.13	96	2940	2.417 ug/L # 1
13) Acetone	2.20	43	2892	3.966 ug/L 66
14) Carbon disulfide	2.32	76	6173	1.767 ug/L 99
15) Methyl Acetate	2.45	43	2654	1.878 ug/L # 74
16) Methylene chloride	2.53	84	2769	1.915 ug/L 92
17) trans-1,2-Dichloroethene	2.78	96	2173	1.647 ug/L 92
18) Methyl tert-butyl Ether	2.79	73	7868	1.696 ug/L 98
19) 1,1-Dichloroethane	3.22	63	4176	1.615 ug/L 93
20) cis-1,2-Dichloroethene	3.94	96	2397m	1.644 ug/L
22) 2-Butanone	4.04	43	3226m	3.485 ug/L

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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.28	128	1408m	1.753	ug/L	
27) 1,2-Dichloroethane	5.16	62	4346	1.844	ug/L	97
29) Cyclohexane	4.71	56	2550m	1.372	ug/L	
30) 1,1,1-Trichloroethane	4.64	97	4186	1.662	ug/L #	74
31) Carbon tetrachloride	4.86	117	3039	1.398	ug/L	94
33) Benzene	5.13	78	8374	1.552	ug/L	100
34) Trichloroethene	5.95	95	2234	1.523	ug/L	90
35) Methylcyclohexane	6.16	83	2703	1.523	ug/L #	73
37) 1,2-Dichloropropane	6.21	63	2571	1.785	ug/L #	84
38) Bromodichloromethane	6.54	83	3171	1.530	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	2803	1.216	ug/L	94
40) 4-Methyl-2-pentanone	7.25	43	6119	3.162	ug/L	97
42) Toluene	7.41	91	10835	1.857	ug/L	97
44) trans-1,3-Dichloropropene	7.68	75	4219m	1.787	ug/L	
45) 1,1,2-Trichloroethane	7.86	97	2241	1.574	ug/L	90
46) Tetrachloroethene	8.00	164	1890	1.579	ug/L	87
48) 2-Hexanone	8.16	43	6345	4.338	ug/L	100
49) Dibromochloromethane	8.27	129	2748	1.619	ug/L	86
50) 1,2-Dibromoethane	8.38	107	2344	1.589	ug/L #	90
51) Chlorobenzene	8.90	112	6658	1.706	ug/L	96
52) Ethylbenzene	9.04	91	9333	1.450	ug/L	99
53) m,p-Xylene	9.16	106	3251	1.349	ug/L	88
54) o-Xylene	9.57	106	3144	1.324	ug/L	90
55) Styrene	9.59	104	5625	1.331	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.26	83	3641	1.691	ug/L	97
59) Bromoform	9.76	173	1918	1.620	ug/L #	94
60) Isopropylbenzene	9.95	105	7955	1.423	ug/L	96
61) 1,2,3-Trichloropropane	10.29	75	2935	1.771	ug/L	97
62) 1,3,5-Trimethylbenzene	10.56	105	6446	1.384	ug/L	98
63) 1,2,4-Trimethylbenzene	10.94	105	6098	1.338	ug/L	98
64) 1,3-Dichlorobenzene	11.21	146	4407	1.507	ug/L	93
65) 1,4-Dichlorobenzene	11.30	146	5398	1.784	ug/L	97
67) 1,2-Dichlorobenzene	11.67	146	5292	1.769	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.46	75	866m	1.791	ug/L	
69) 1,3,5-Trichlorobenzene	12.67	180	3191	1.520	ug/L	96
70) 1,2,4-trichlorobenzene	13.29	180	2823	1.429	ug/L	96
71) Naphthalene	13.53	128	5620	1.009	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	2721	1.390	ug/L	99

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

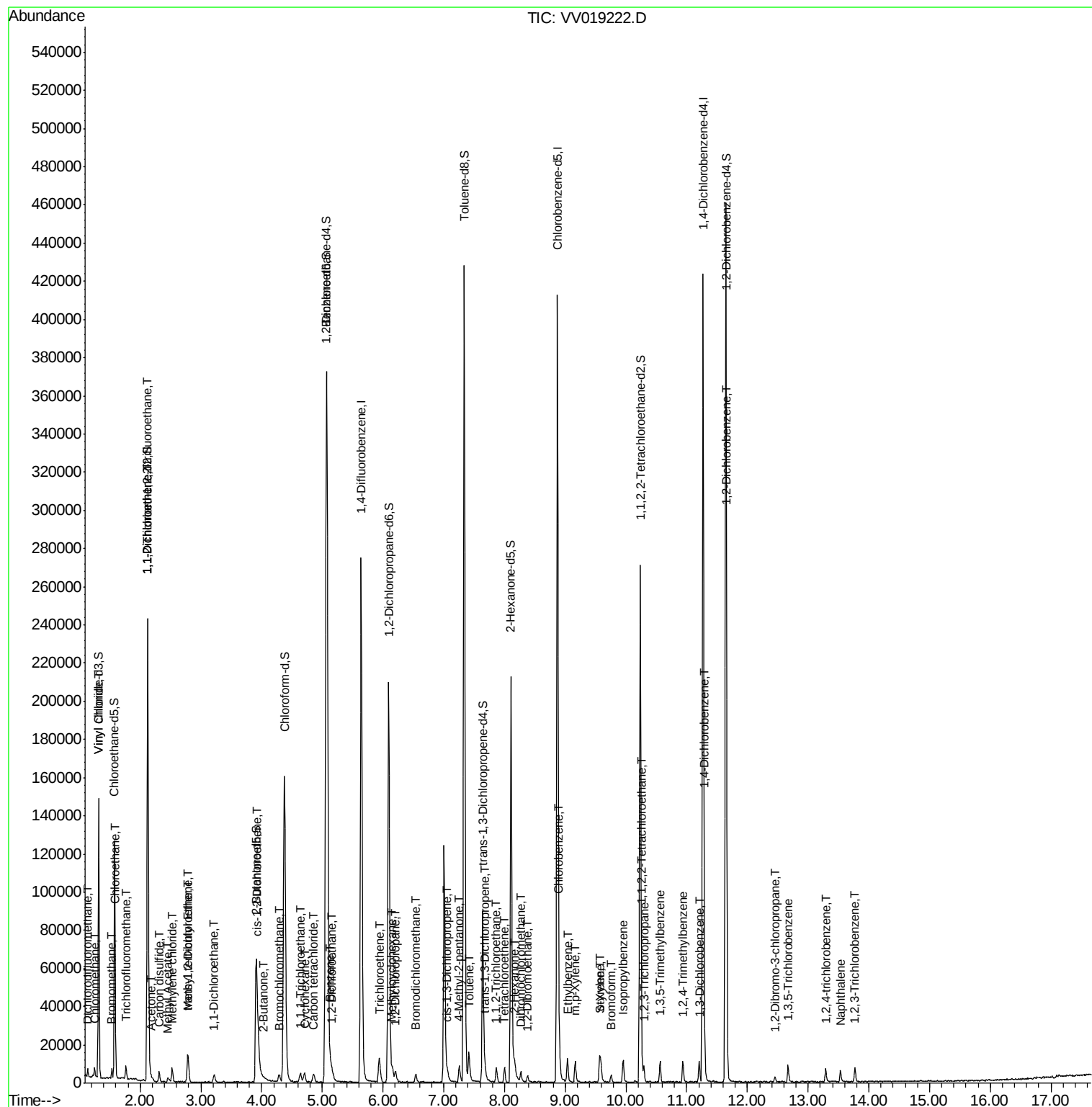
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
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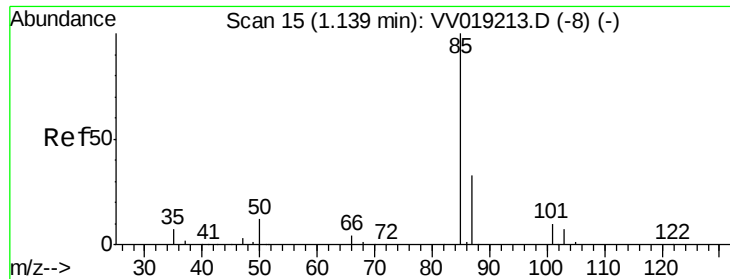
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

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#2

Dichlorodifluoromethane

Concen: 1.529 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 85 Resp: 2111

Ion Ratio Lower Upper

85 100

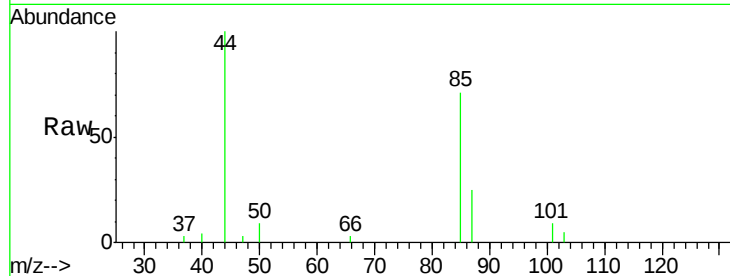
87 36.9 25.9 38.9

Manual Integrations

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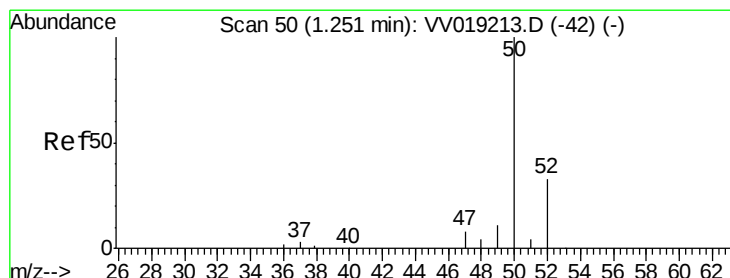
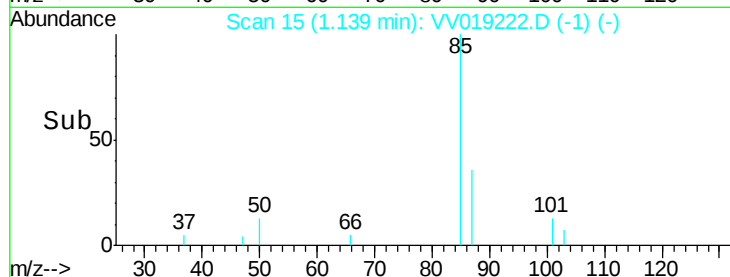
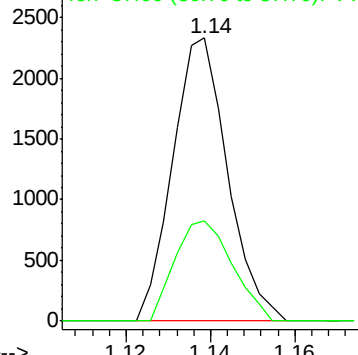
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 1.671 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019222.D

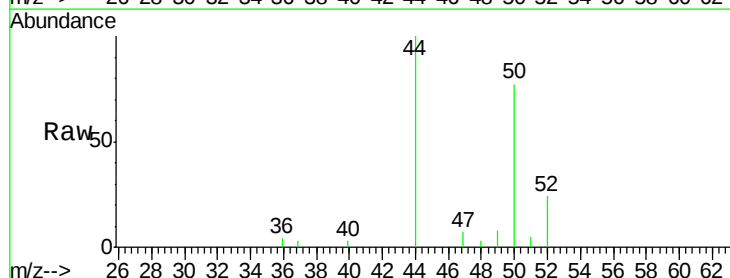
Acq: 03 Nov 2020 01:17

Tgt Ion: 50 Resp: 2402

Ion Ratio Lower Upper

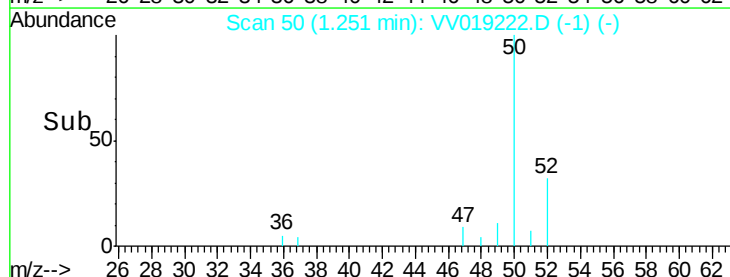
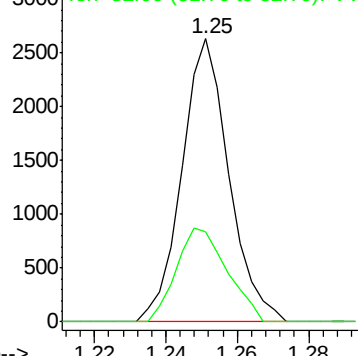
50 100

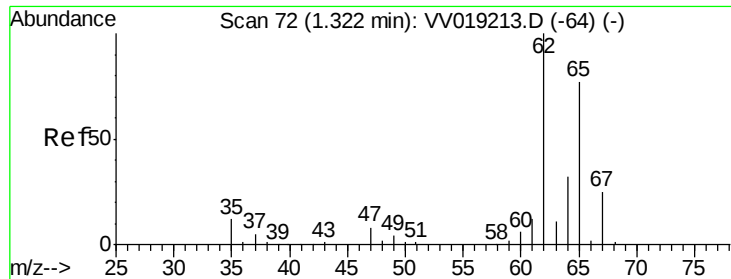
52 32.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 1.970 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 62 Resp: 2948

Ion Ratio Lower Upper

62 100

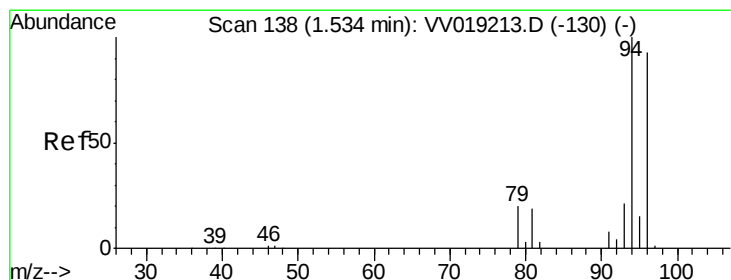
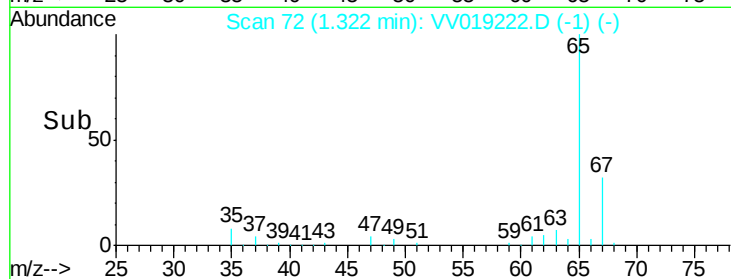
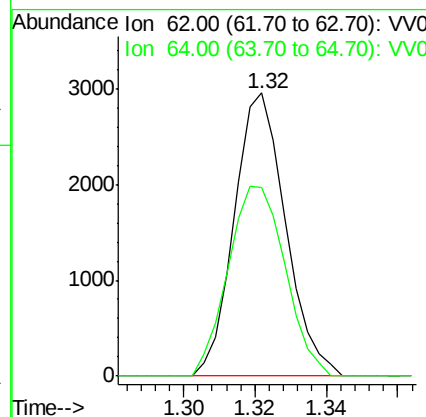
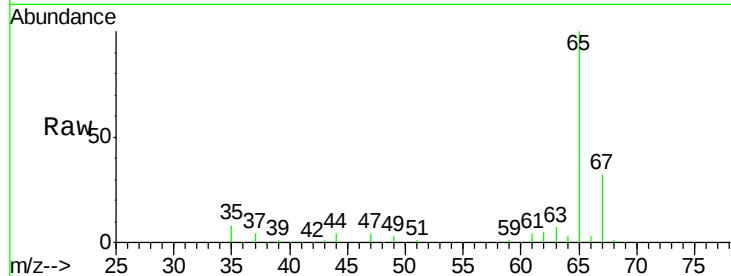
64 66.7 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 1.918 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019222.D

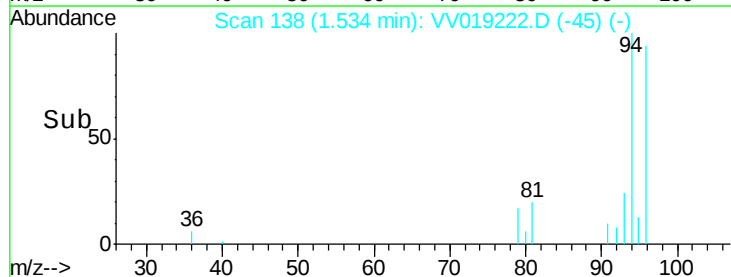
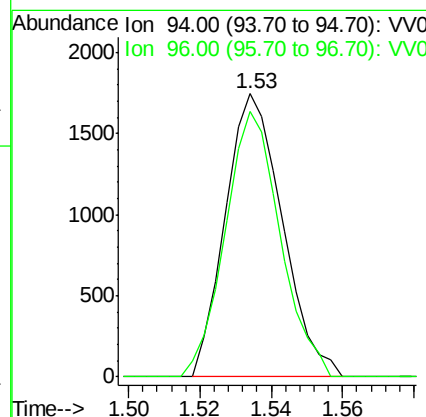
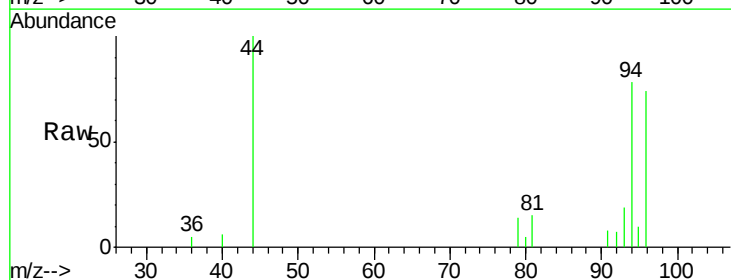
Acq: 03 Nov 2020 01:17

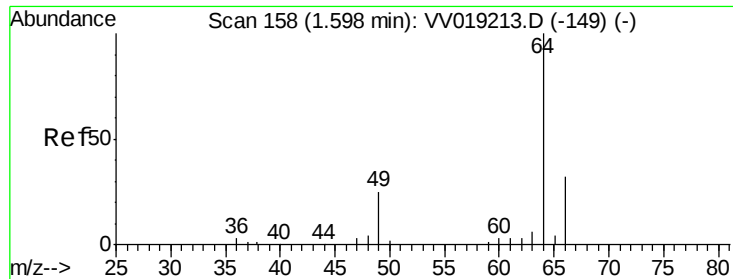
Tgt Ion: 94 Resp: 1929

Ion Ratio Lower Upper

94 100

96 93.9 66.4 123.2





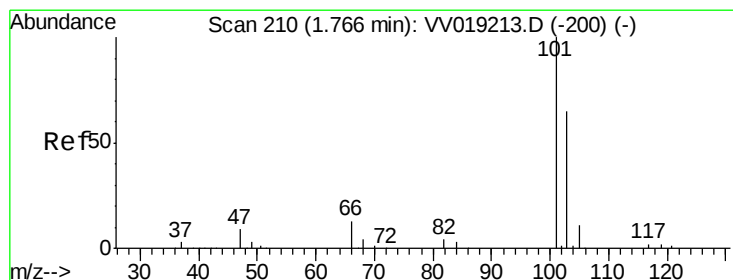
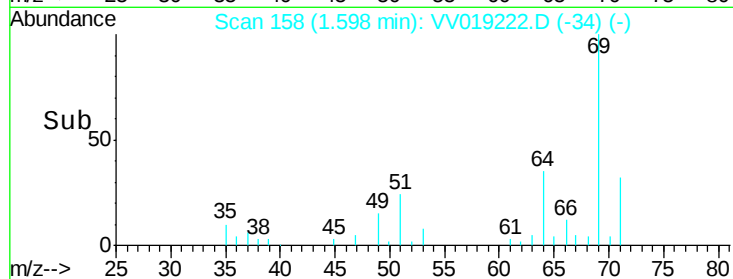
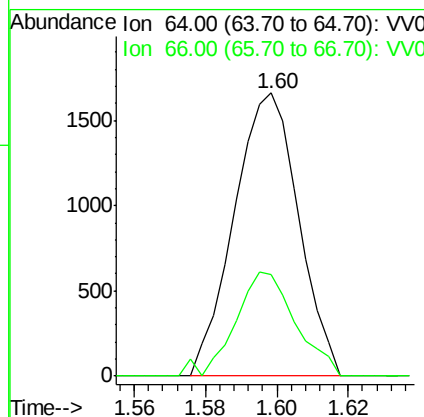
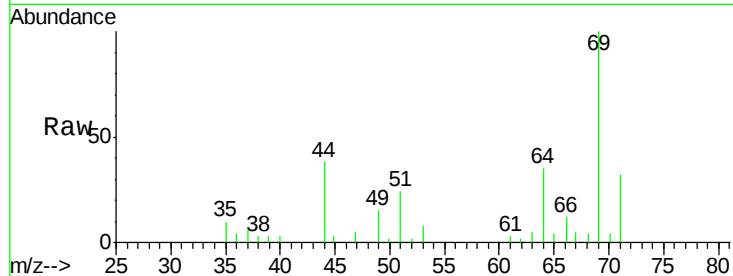
#8
Chloroethane
Concen: 2.117 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

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MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion: 64 Resp: 2072
Ion Ratio Lower Upper
64 100
66 35.9 22.5 41.9

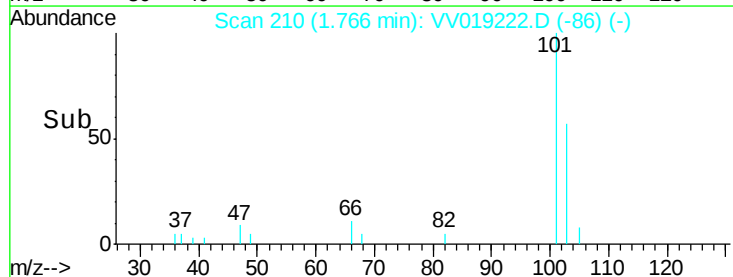
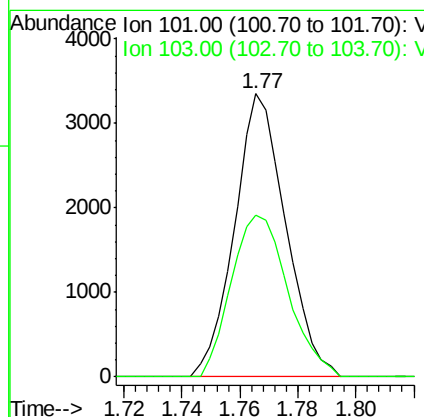
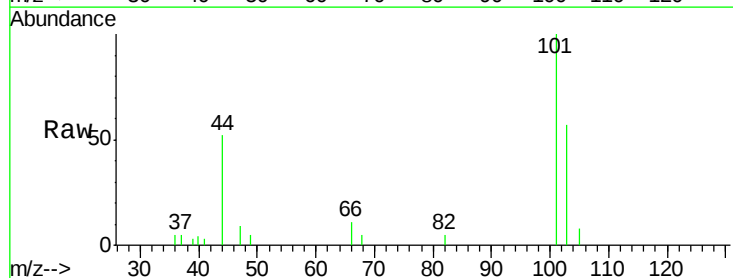
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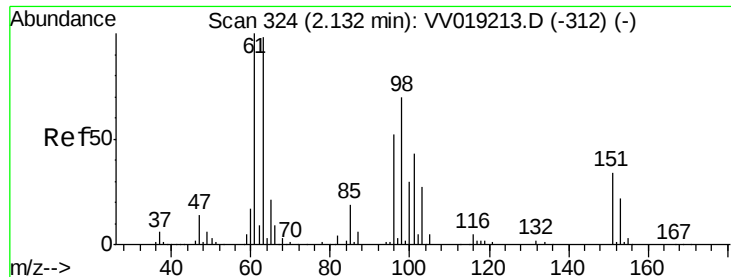
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11/4/2020 10:45:00 AM



#9
Trichlorofluoromethane
Concen: 1.654 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion: 101 Resp: 4097
Ion Ratio Lower Upper
101 100
103 63.2 52.3 78.5





#10

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

Concen: 2.388 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

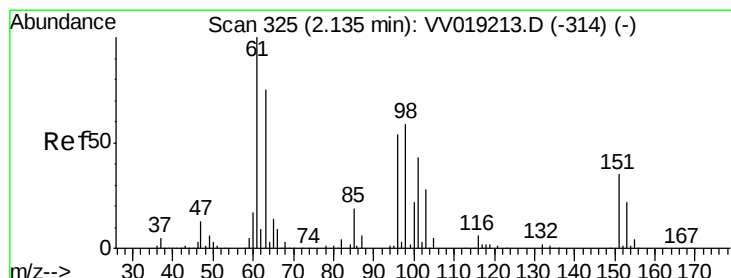
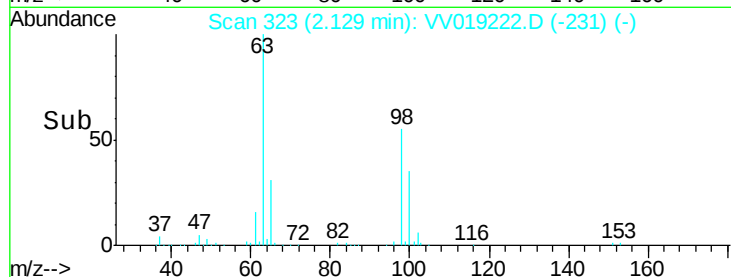
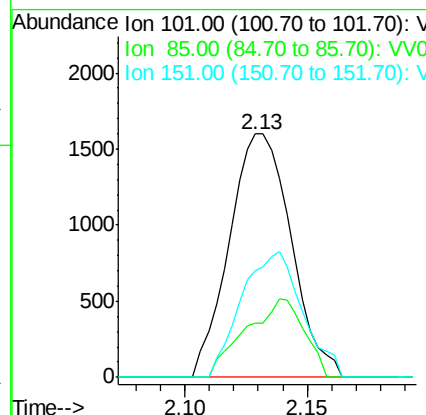
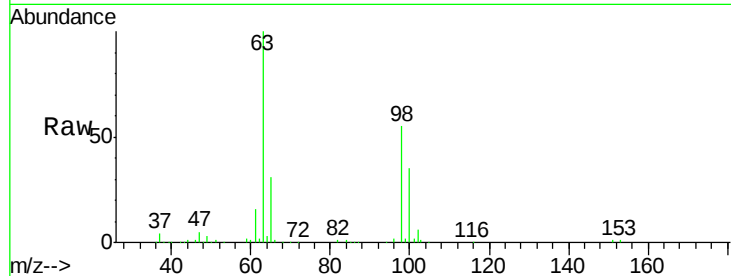
ClientSampleId :

MDL-ME-SOIL-03

Tot Ion:	101	Resp:	2811
Ion Ratio	Lower	Upper	
101	100		
85	30.6	35.6	53.4#
151	50.8	64.1	96.1#

Manual Integrations
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11/4/2020 10:45:00 AM



#12

1,1-Dichloroethene

Concen: 2.417 ug/L

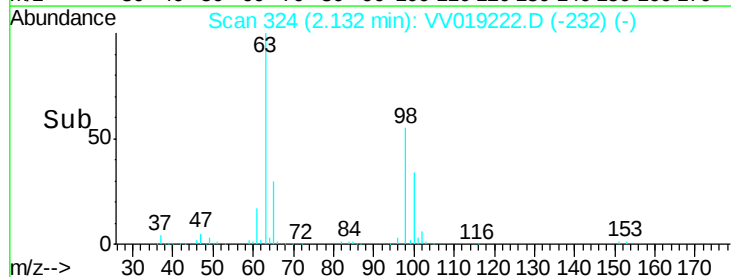
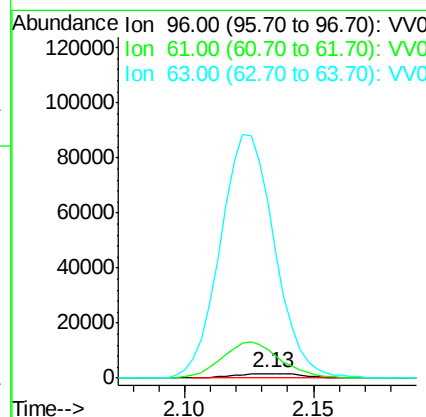
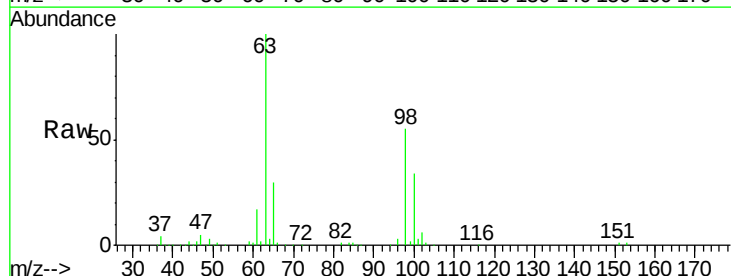
RT: 2.13 min Scan# 324

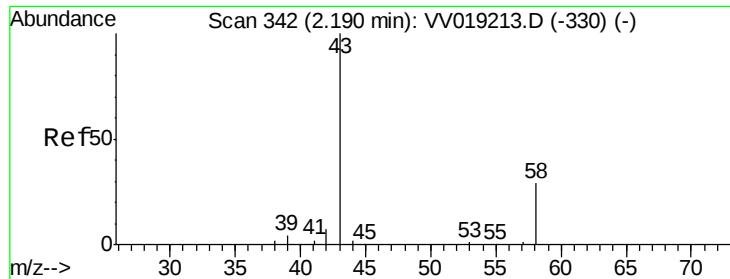
Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tgt Ion:	96	Resp:	2940
Ion Ratio	Lower	Upper	
96	100		
61	639.4	133.6	248.0#
63	3871.0	103.0	191.2#





#13

Acetone

Concen: 3.966 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tot Ion: 43 Resp: 2892

Ion Ratio Lower Upper

43 100

58 10.7 0.0 57.8

Instrument :

MSVOA_V

ClientSampleId :

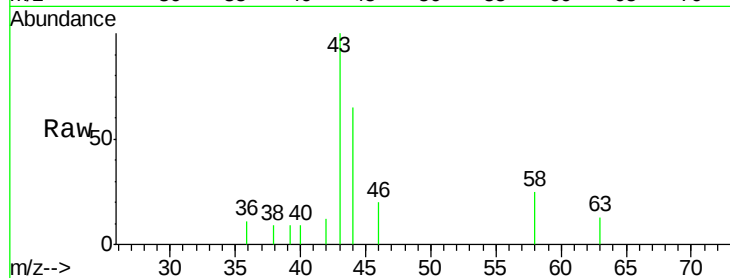
MDL-ME-SOIL-03

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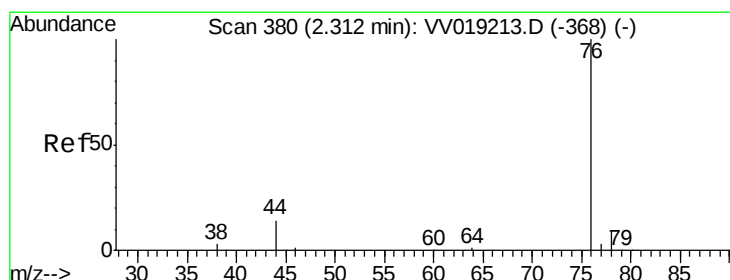
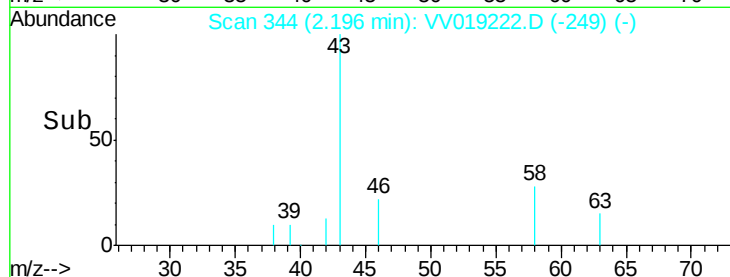
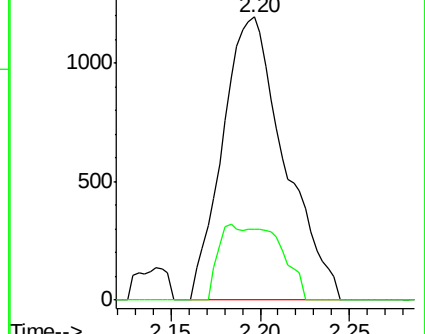
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11/4/2020 10:45:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 1.767 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV019222.D

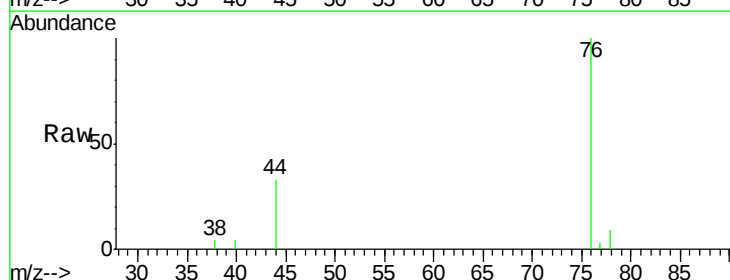
Acq: 03 Nov 2020 01:17

Tgt Ion: 76 Resp: 6173

Ion Ratio Lower Upper

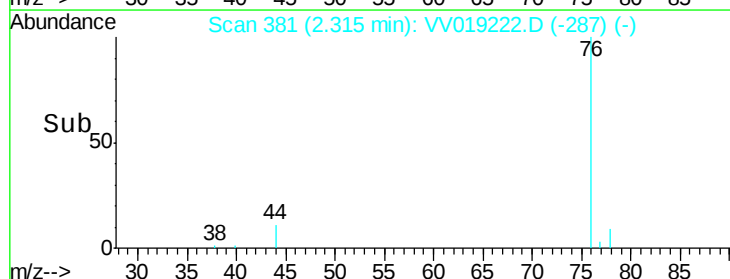
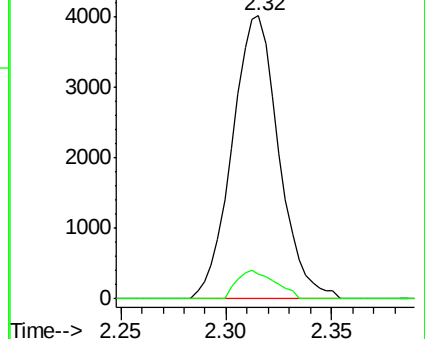
76 100

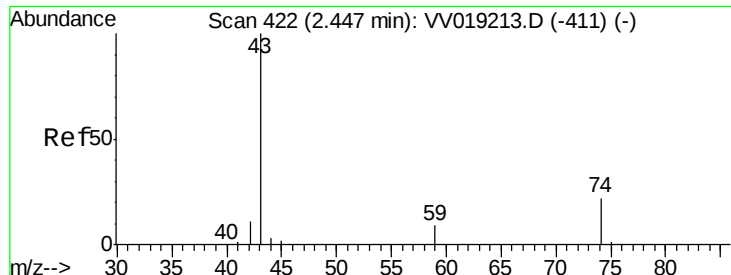
78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methvl Acetate

Concen: 1.878 ug/L

RT: 2.45 min Scan# 424

Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 43 Resp: 2654

Ion Ratio Lower Upper

43 100

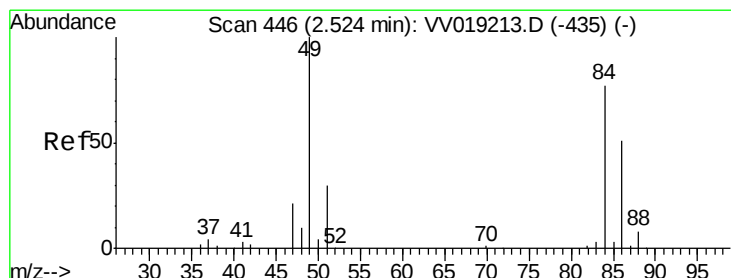
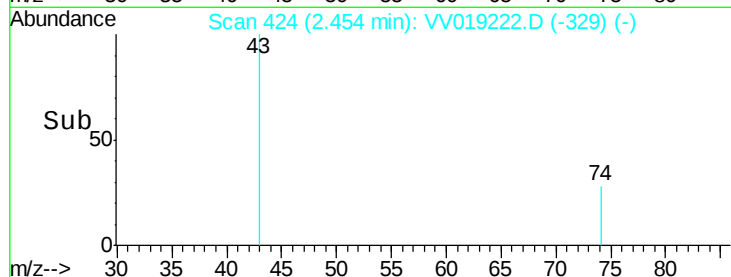
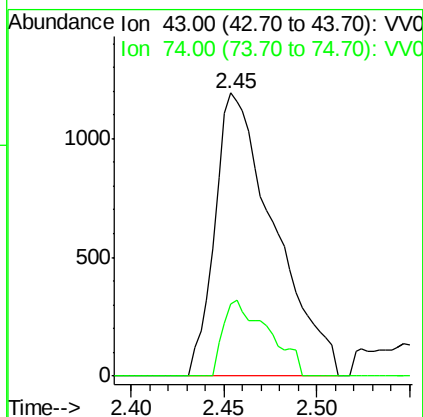
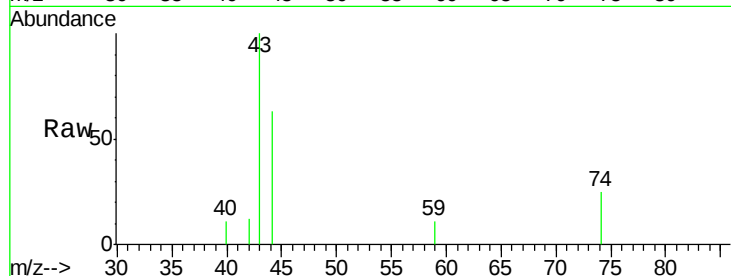
74 10.9 18.8 28.2#

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11/4/2020 10:45:00 AM



#16

Methylene chloride

Concen: 1.915 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

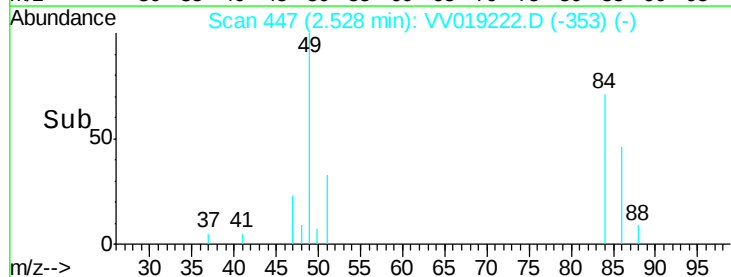
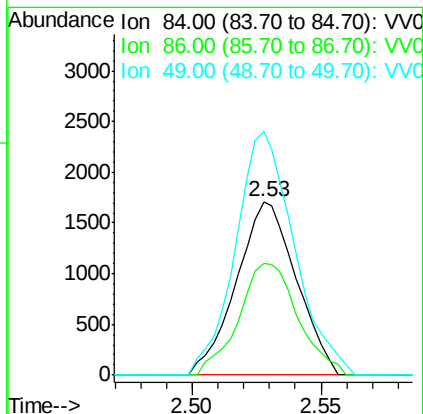
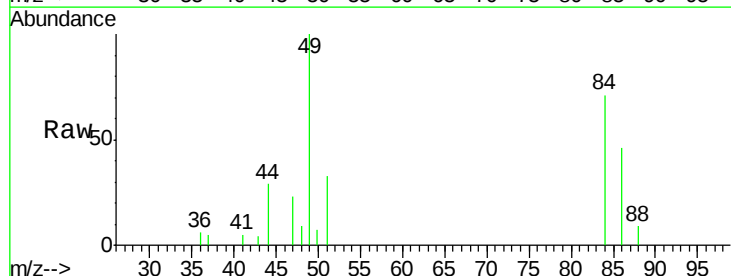
Tgt Ion: 84 Resp: 2769

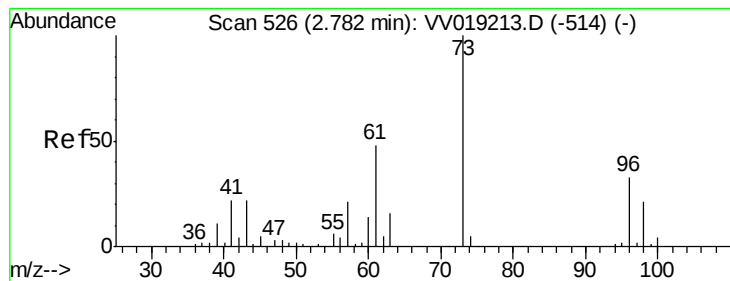
Ion Ratio Lower Upper

84 100

86 64.4 45.6 84.8

49 140.1 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 1.647 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

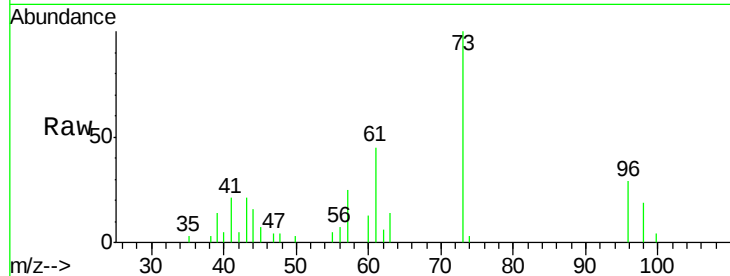
ClientSampleId :

MDL-ME-SOIL-03

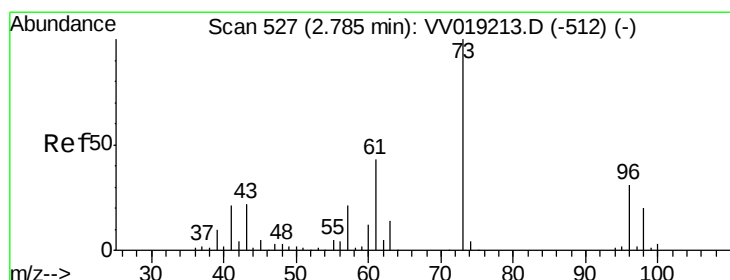
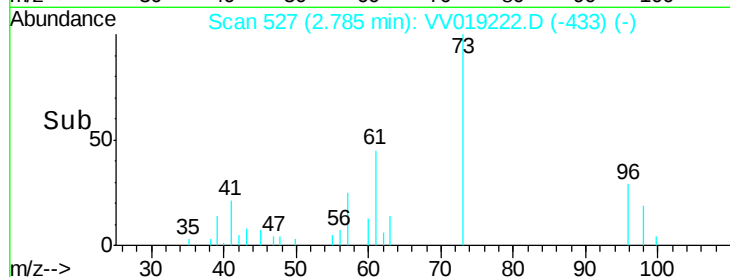
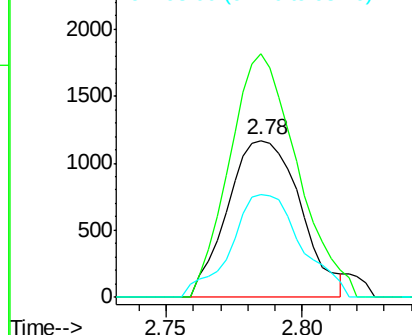
Tot Ion:	96	Resp:	2173
Ion	Ratio	Lower	Upper
96	100		
61	155.3	100.7	187.1
98	65.4	42.9	79.7

Manual Integrations
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Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 1.696 ug/L

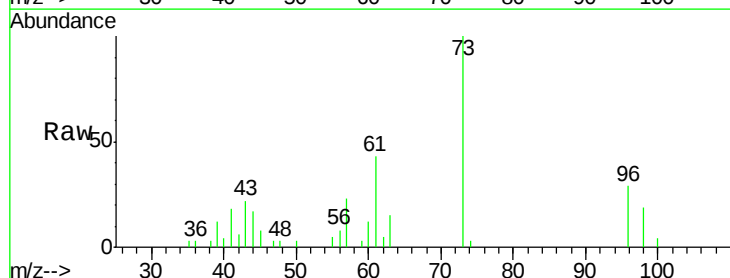
RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

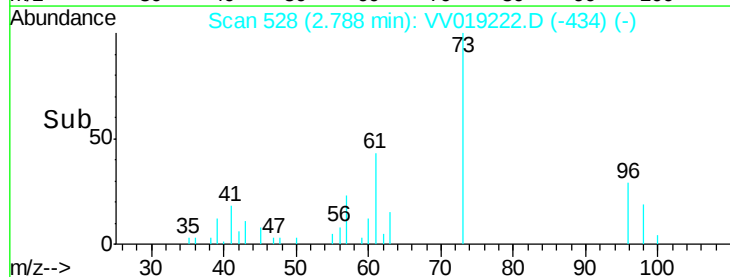
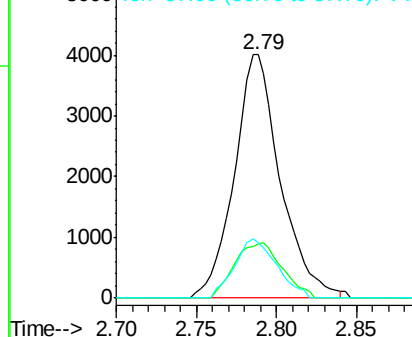
Lab File: VV019222.D

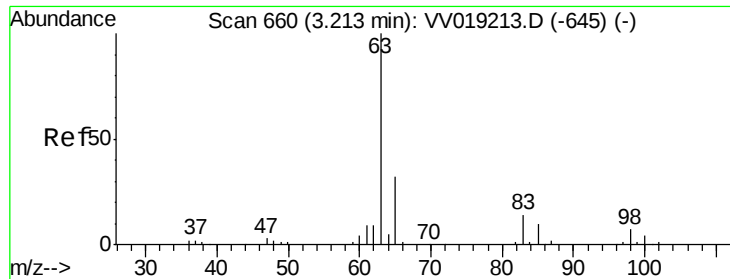
Acq: 03 Nov 2020 01:17

Tgt Ion:	73	Resp:	7868
Ion	Ratio	Lower	Upper
73	100		
43	23.6	17.9	26.9
57	22.2	17.1	25.7



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





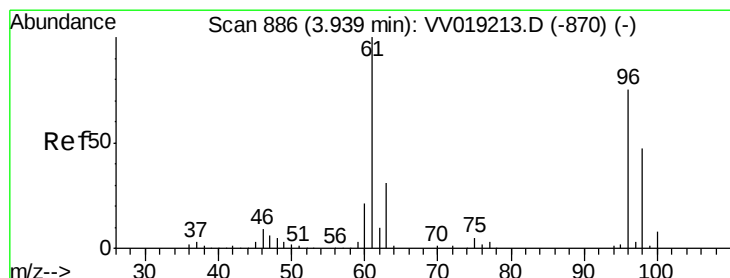
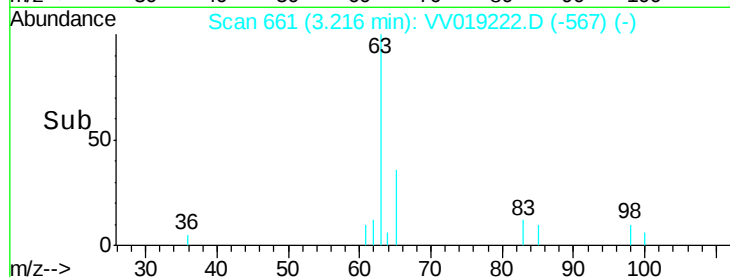
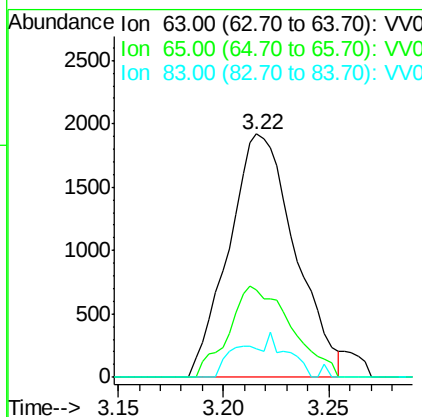
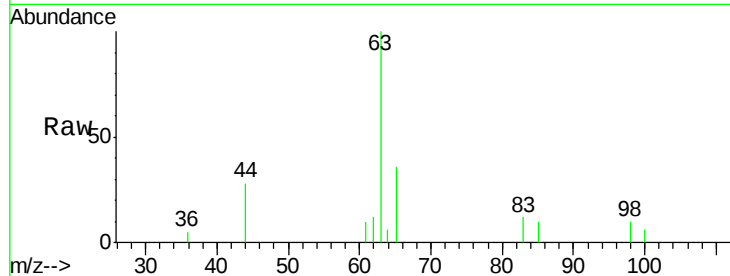
#19
 1,1-Dichloroethane
 Concen: 1.615 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.8	21.8	40.6
83	11.8	9.5	17.7

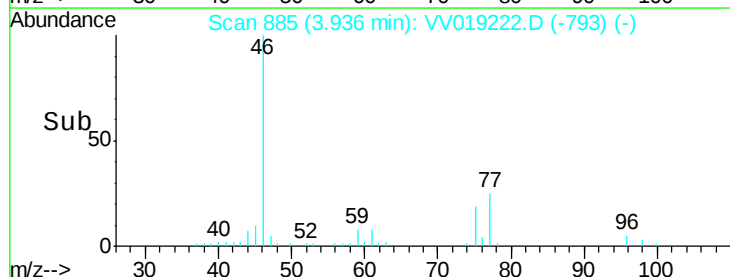
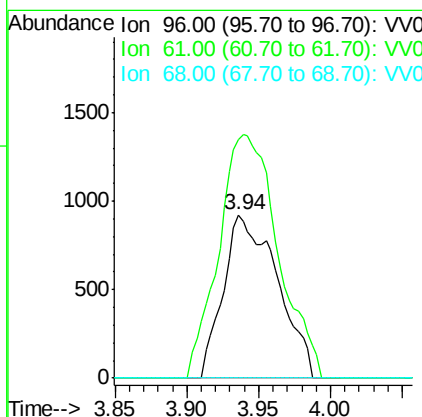
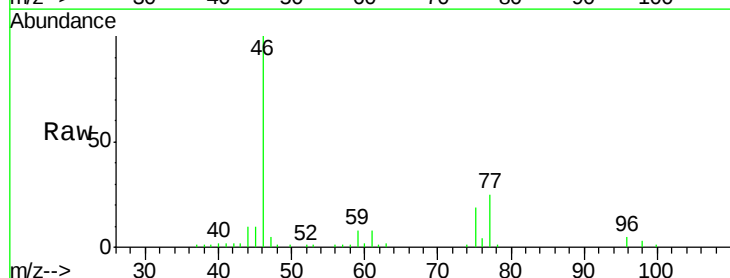
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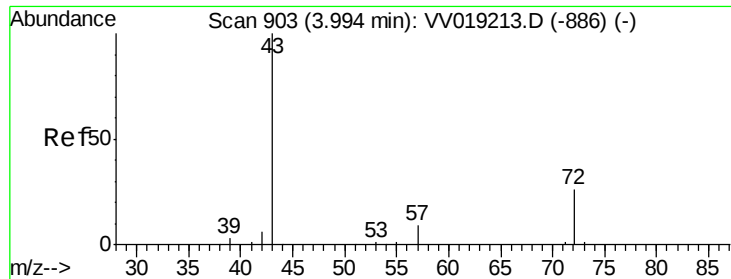
MMDadoda
 11/4/2020 10:45:00 AM



#20
 cis-1,2-Dichloroethene
 Concen: 1.644 ug/L m
 RT: 3.94 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.7	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.485 ug/L m

RT: 4.04 min Scan# 918

Delta R.T. 0.05 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 43 Resp: 3226

Ion Ratio Lower Upper

43 100

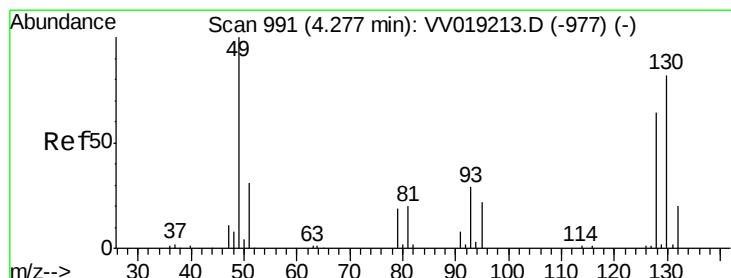
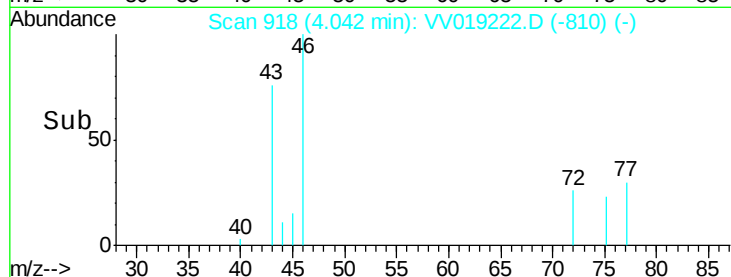
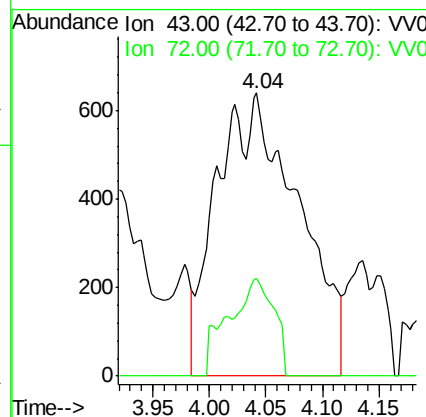
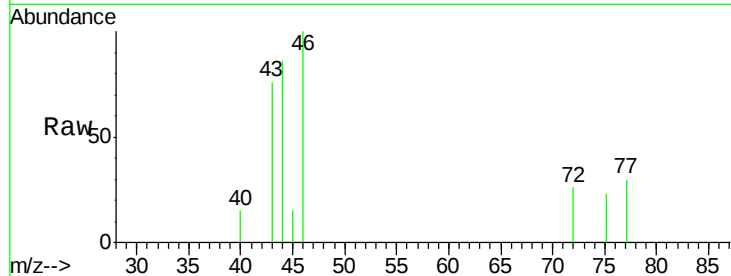
72 2.0 12.7 38.0#

Manual Integrations

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11/4/2020 10:45:00 AM



#23

Bromochloromethane

Concen: 1.753 ug/L m

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tgt Ion: 128 Resp: 1408

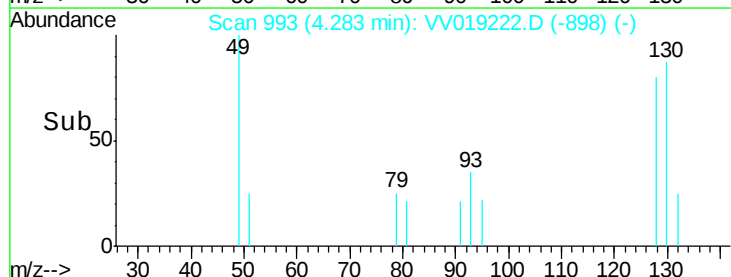
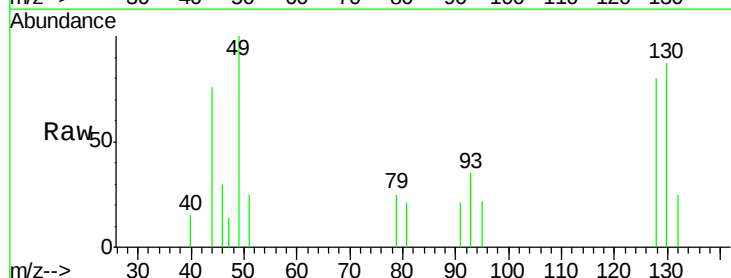
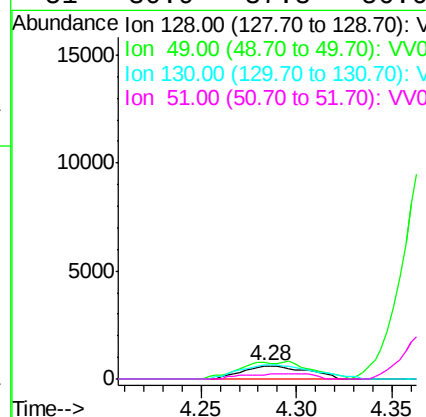
Ion Ratio Lower Upper

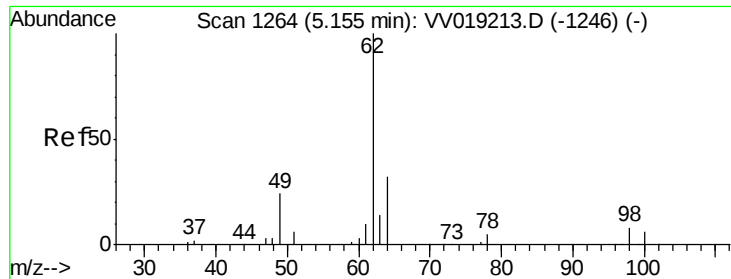
128 100

49 125.5 108.8 202.2

130 109.3 88.5 164.3

51 30.9 37.8 56.6#





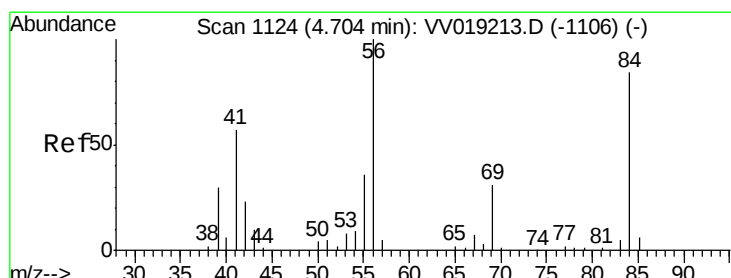
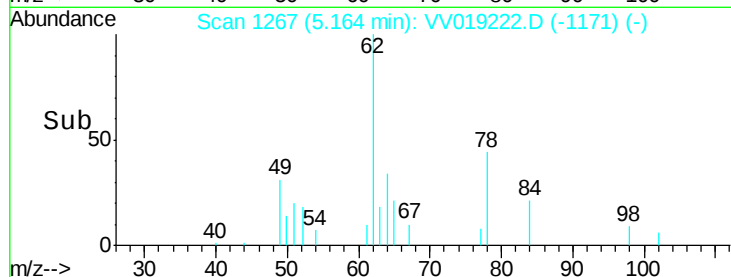
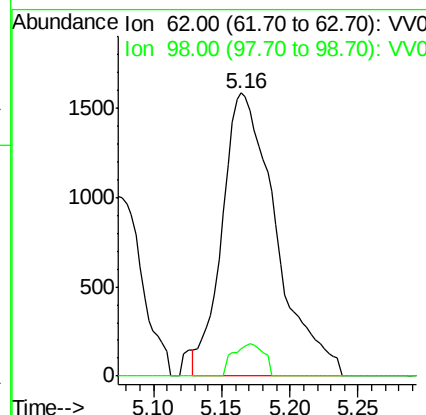
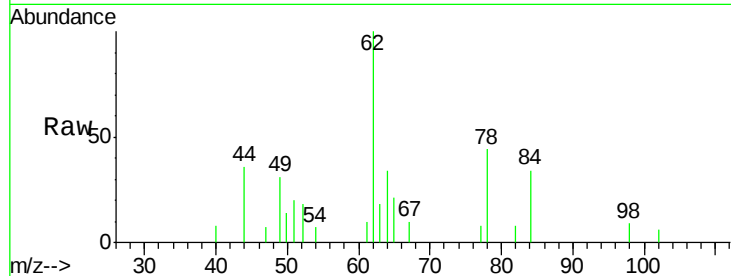
#27
 1,2-Dichloroethane
 Concen: 1.844 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampled :
 MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
62	100		
98	9.5	6.8	10.2

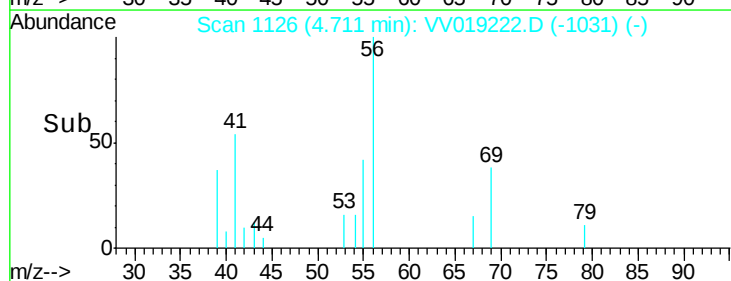
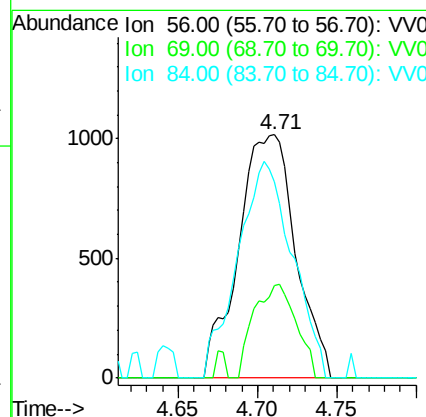
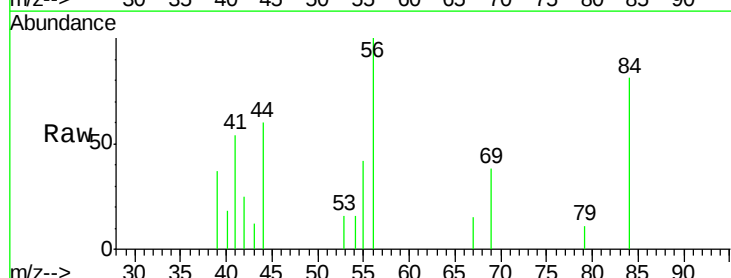
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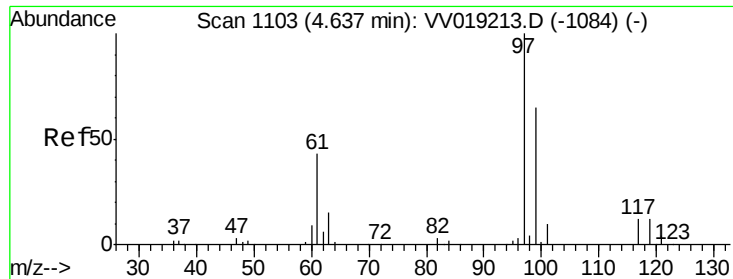
MMDadoda
 11/4/2020 10:45:00 AM



#29
 Cyclohexane
 Concen: 1.372 ug/L m
 RT: 4.71 min Scan# 1126
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.3	24.6	36.8
84	84.9	70.5	105.7





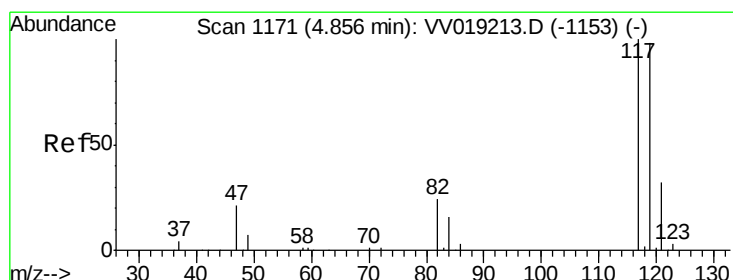
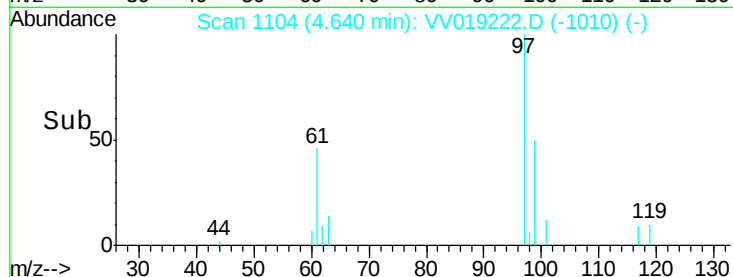
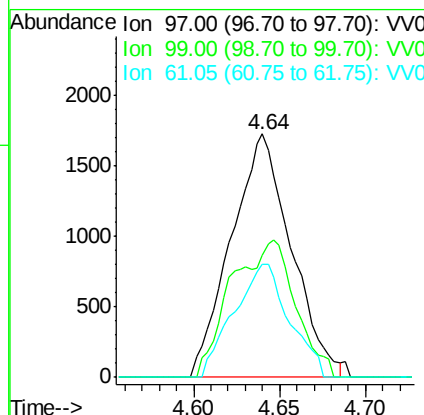
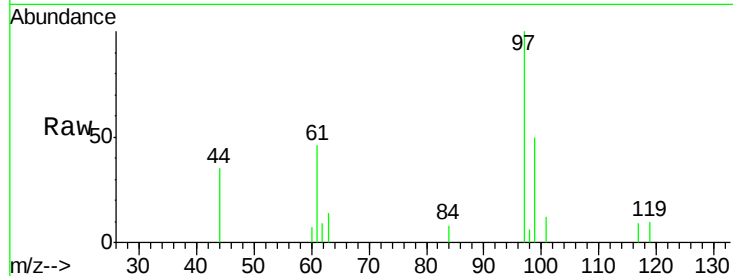
#30
 1,1,1-Trichloroethane
 Concen: 1.662 ug/L
 RT: 4.64 min Scan# 1104
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
97	100		
99	32.3	52.0	78.0#
61	42.9	35.3	52.9

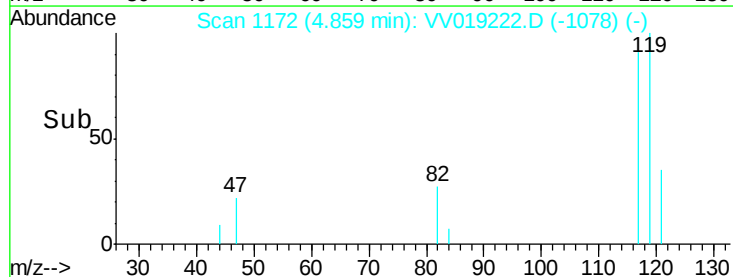
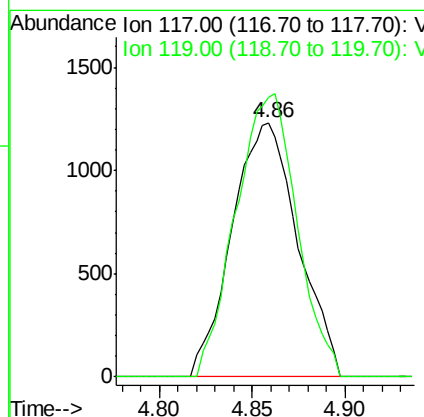
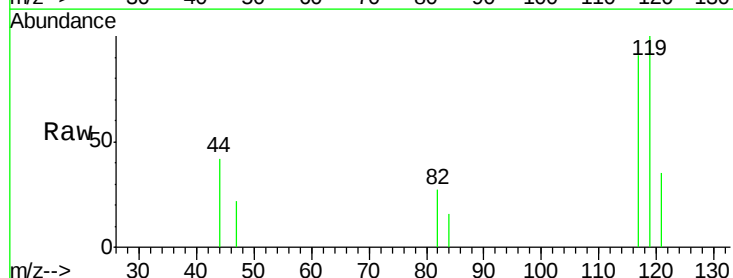
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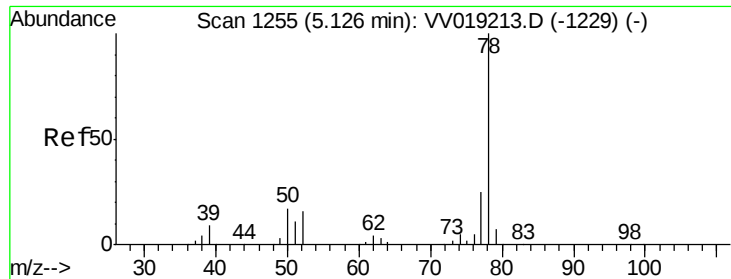
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 11/4/2020 10:45:00 AM



#31
 Carbon tetrachloride
 Concen: 1.398 ug/L
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.4	77.8	116.6





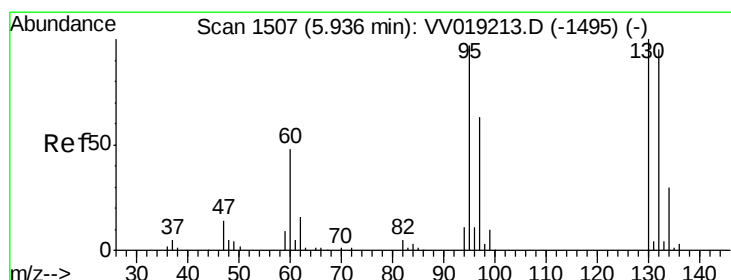
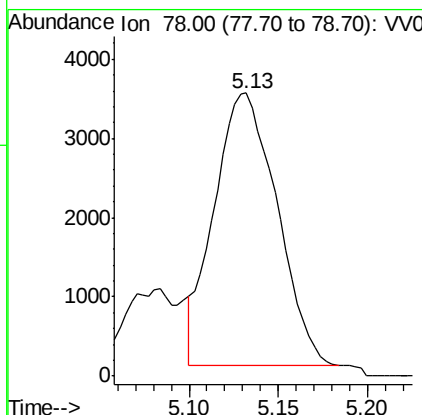
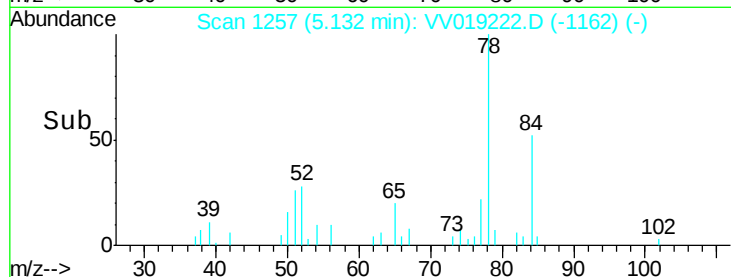
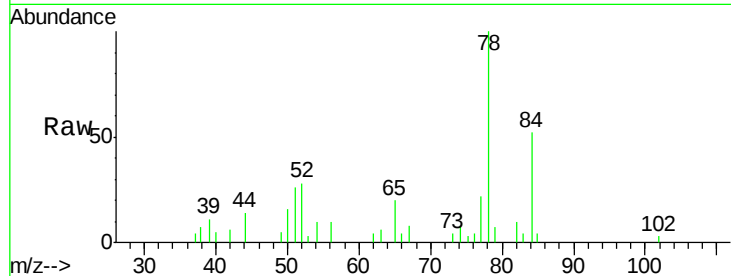
#33
Benzene
Concen: 1.552 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tgt Ion: 78 Resp: 8374

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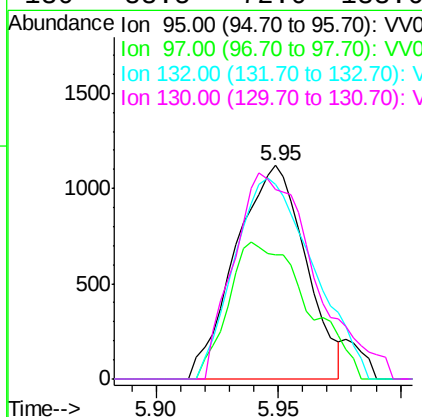
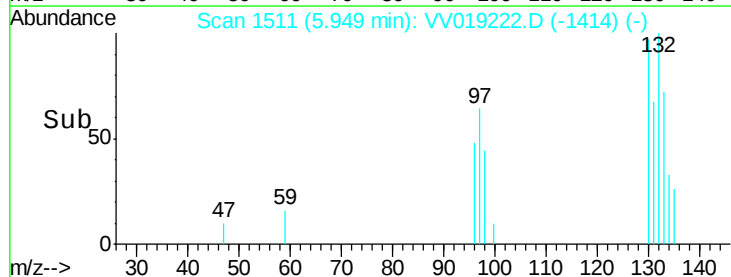
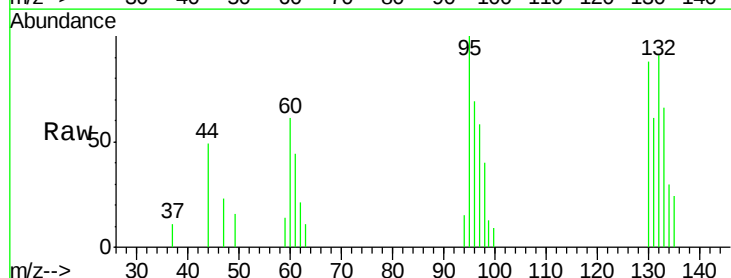
MMDadoda
11/4/2020 10:45:00 AM

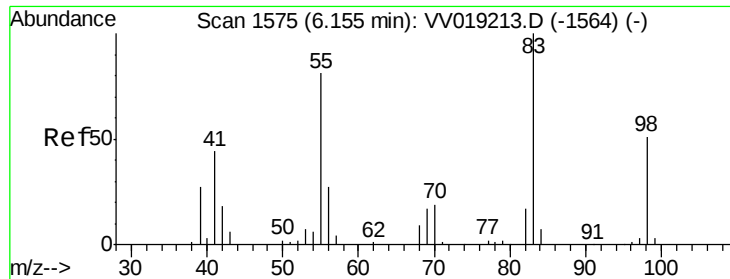


#34
Trichloroethene
Concen: 1.523 ug/L
RT: 5.95 min Scan# 1511
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion: 95 Resp: 2234

Ion	Ratio	Lower	Upper
95	100		
97	58.2	45.4	84.4
132	91.3	68.5	127.3
130	88.5	72.0	133.6





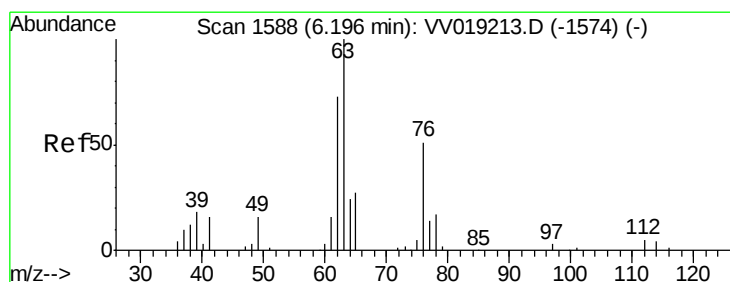
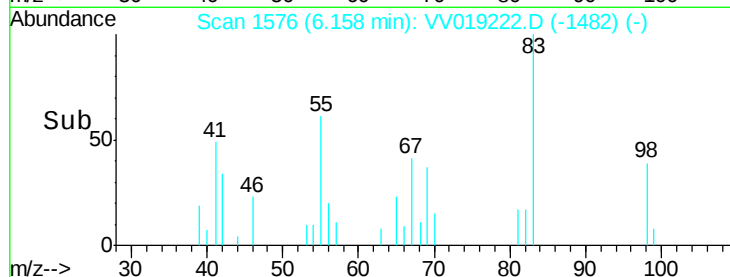
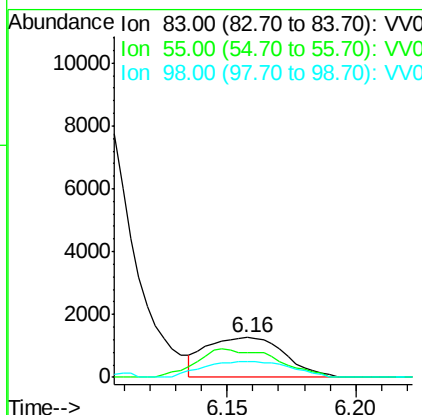
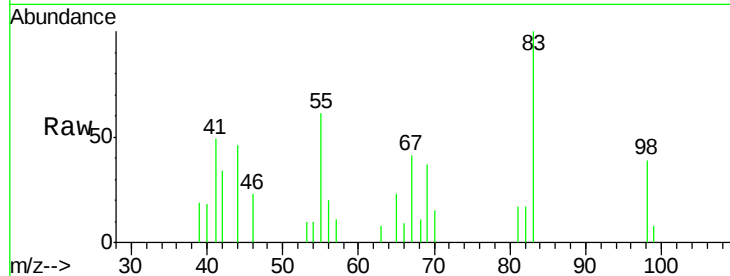
#35
Methvlcvclohexane
Concen: 1.523 ug/L
RT: 6.16 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
83	100		
55	44.5	62.8	94.2#
98	43.8	38.6	58.0

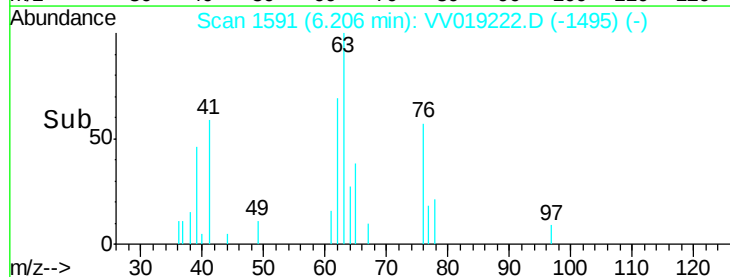
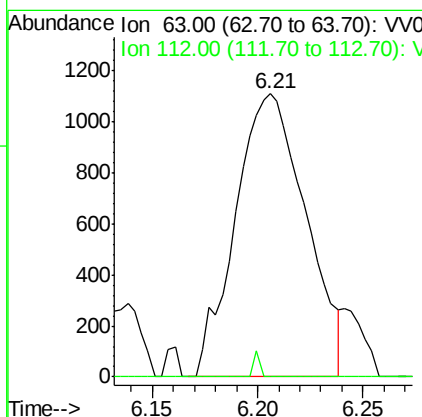
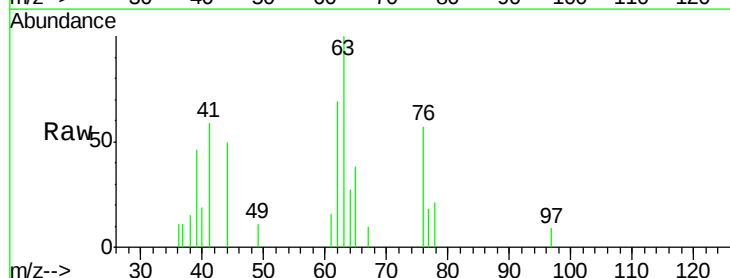
Manual Integrations
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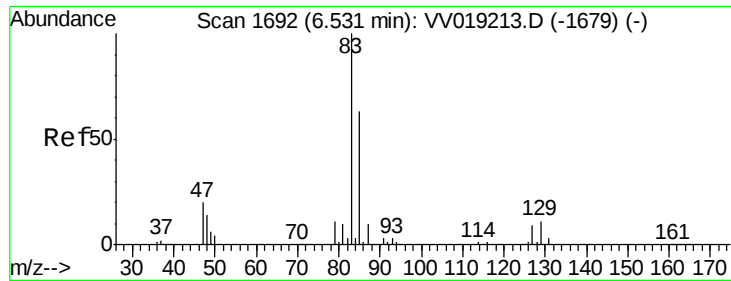
MMDadoda
11/4/2020 10:45:00 AM



#37
1,2-Dichloropropane
Concen: 1.785 ug/L
RT: 6.21 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.2	6.2#





#38

Bromodichloromethane

Concen: 1.530 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

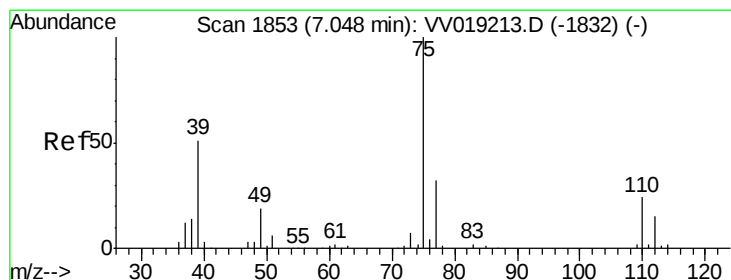
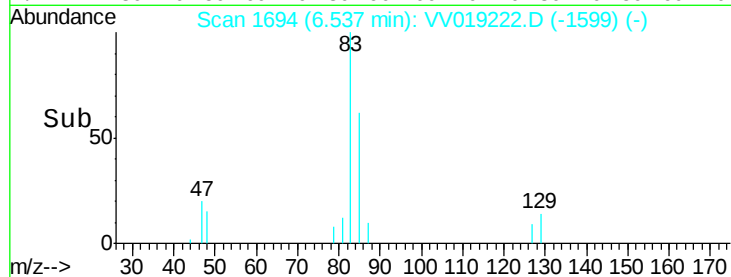
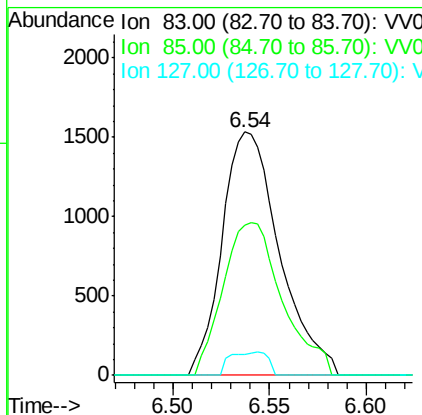
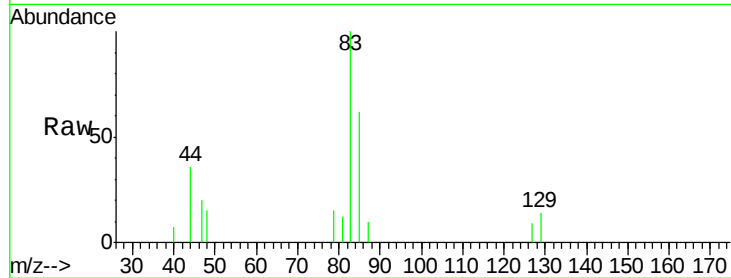
ClientSampleId :

MDL-ME-SOIL-03

Tot Ion:	83	Resp:	3171
Ion	Ratio	Lower	Upper
83	100		
85	61.9	44.0	81.8
127	8.7	7.3	10.9

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11/4/2020 10:45:00 AM



#39

cis-1,3-Dichloropropene

Concen: 1.216 ug/L

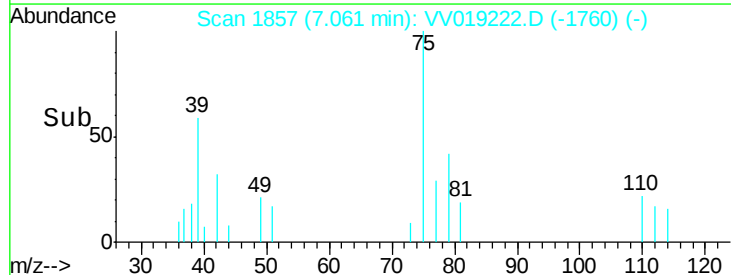
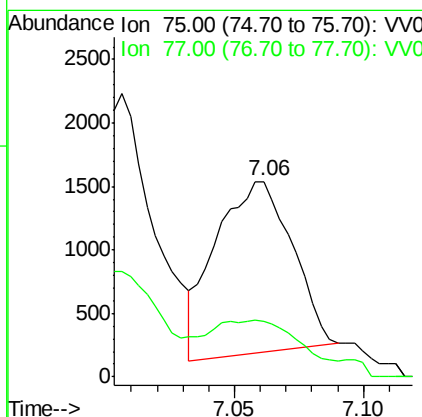
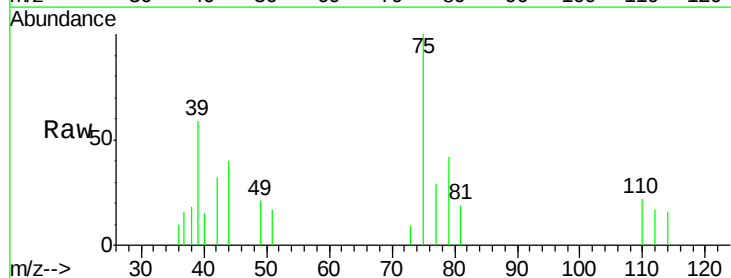
RT: 7.06 min Scan# 1857

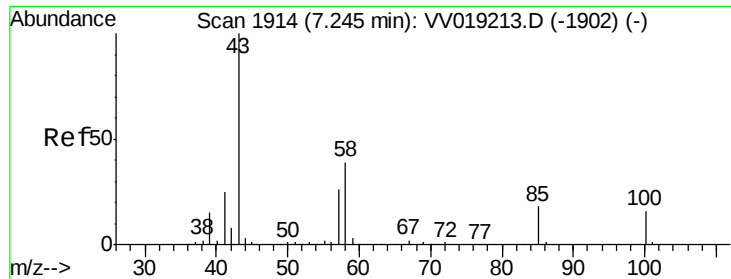
Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tgt Ion:	75	Resp:	2803
Ion	Ratio	Lower	Upper
75	100		
77	28.5	22.2	41.2





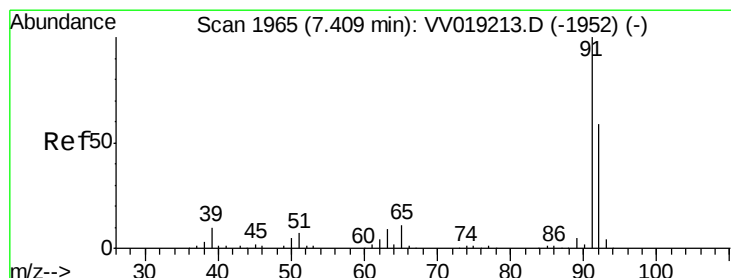
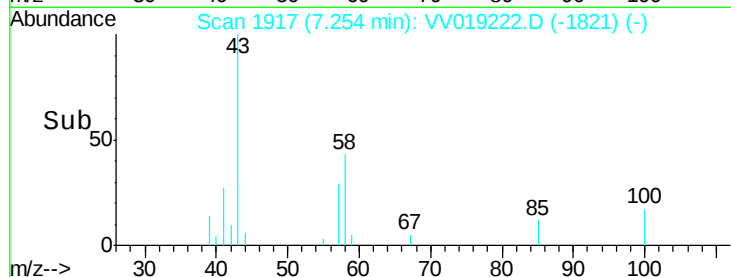
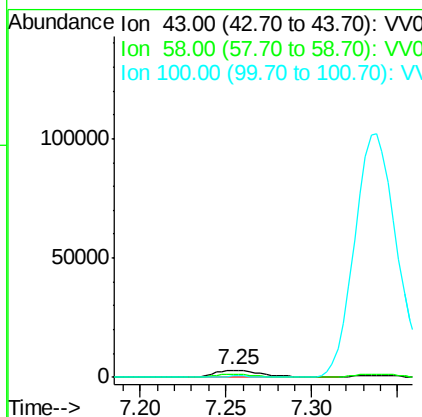
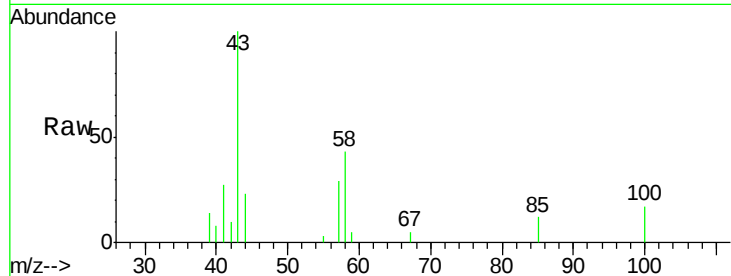
#40
4-Methyl-2-pentanone
Concen: 3.162 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.5	45.7
100	13.1	12.7	19.1

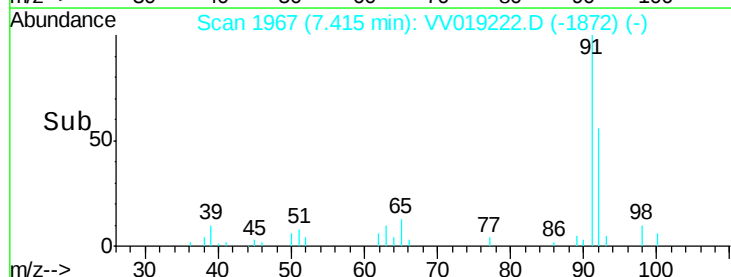
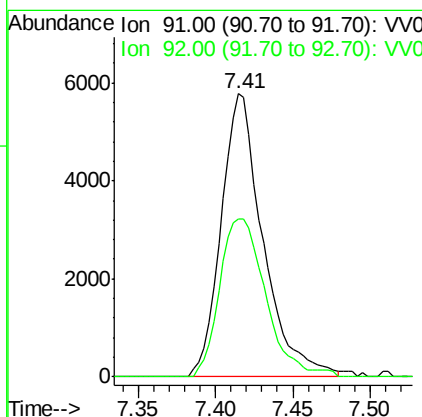
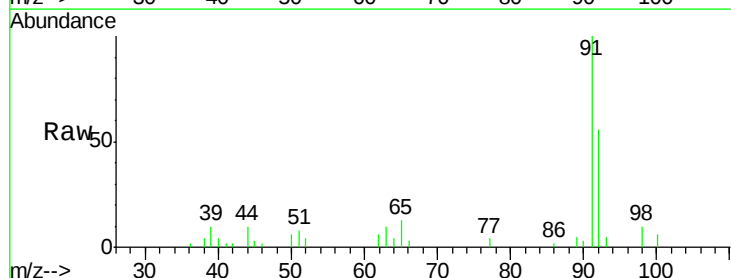
Manual Integrations
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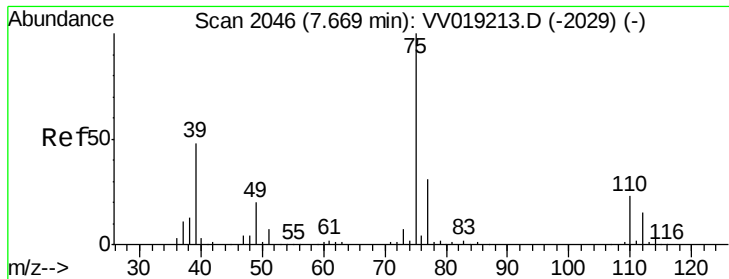
MMDadoda
11/4/2020 10:45:00 AM



#42
Toluene
Concen: 1.857 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	40.6	75.4





#44

trans-1,3-Dichloropropene

Concen: 1.787 ug/L m

RT: 7.68 min Scan# 2050

Delta R.T. 0.01 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 75 Resp: 4219

Ion Ratio Lower Upper

75 100

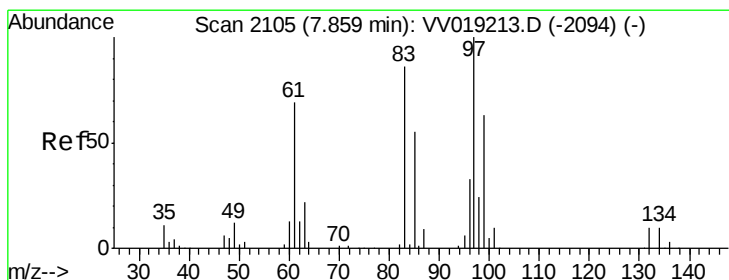
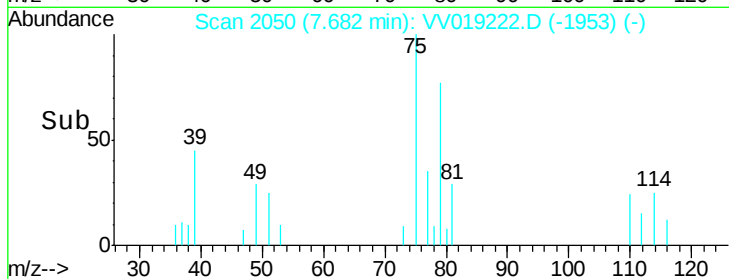
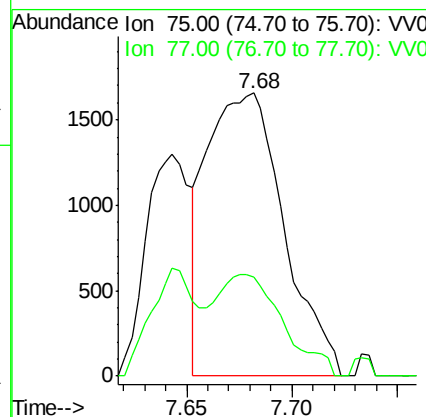
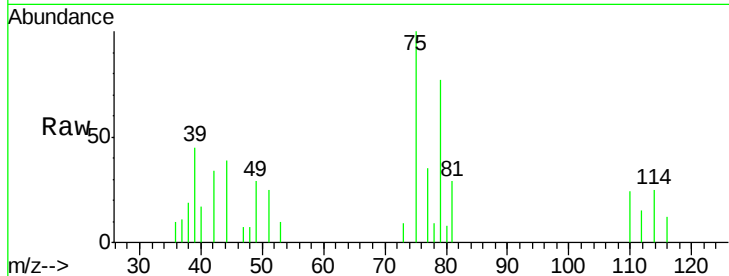
77 34.8 21.6 40.2

Manual Integrations

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11/4/2020 10:45:00 AM



#45

1,1,2-Trichloroethane

Concen: 1.574 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tgt Ion: 97 Resp: 2241

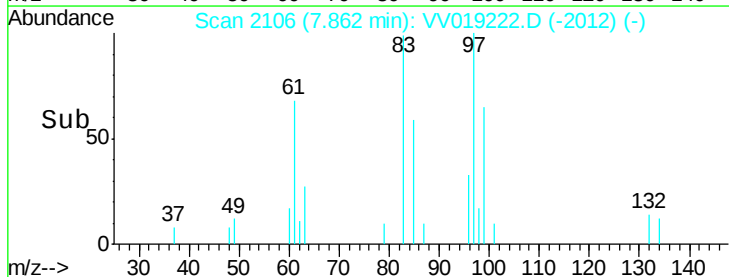
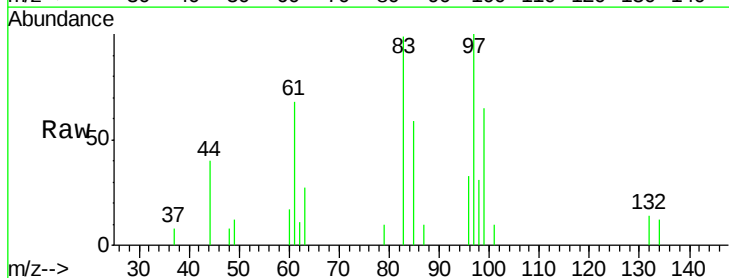
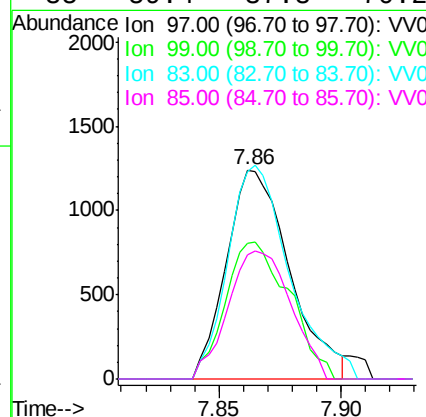
Ion Ratio Lower Upper

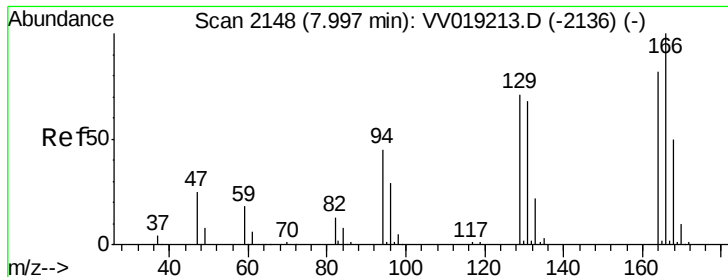
97 100

99 64.8 45.1 83.9

83 99.4 57.6 107.0

85 59.4 37.8 70.2





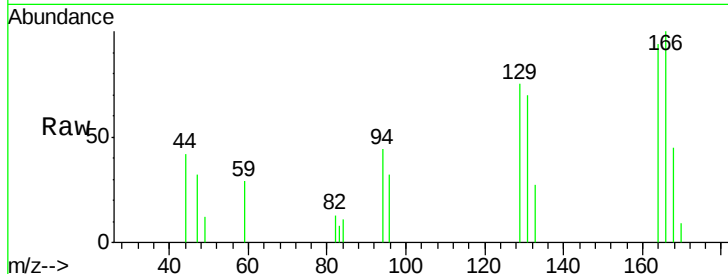
#46
Tetrachloroethene
Concen: 1.579 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
164	100		
129	80.0	62.6	116.3
131	74.4	59.0	109.6
166	106.7	88.0	163.4

Manual Integrations
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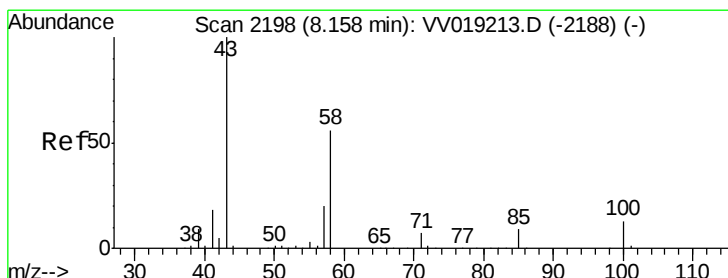
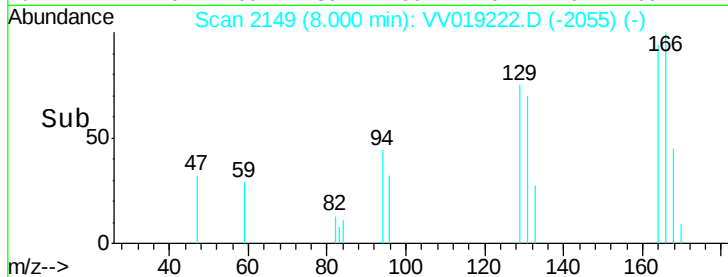
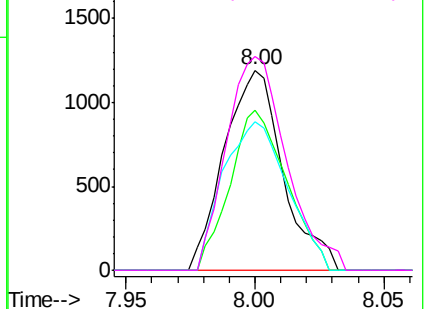
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48
2-Hexanone
Concen: 4.338 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	53.6	42.6	63.8
57	19.7	15.8	23.8
100	12.9	10.4	15.6

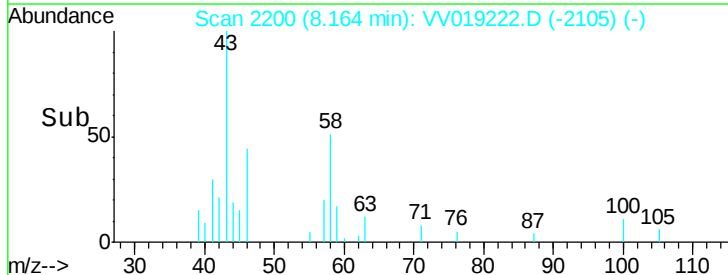
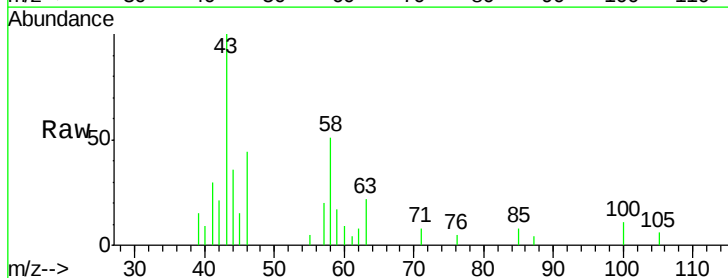
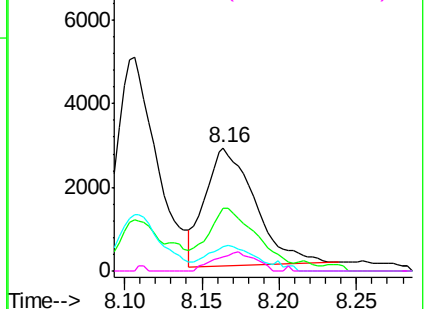
Abundance

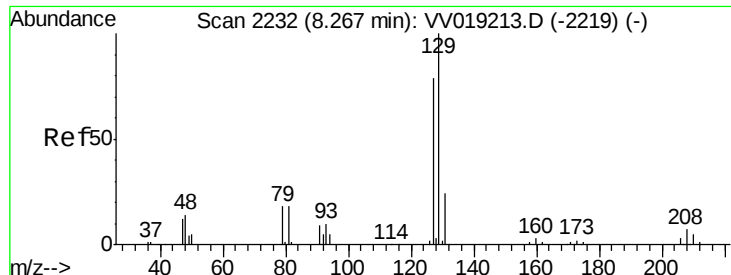
Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





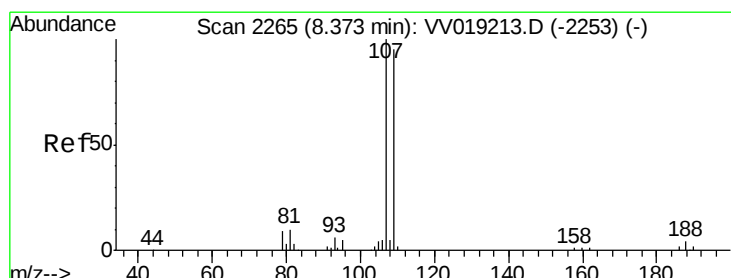
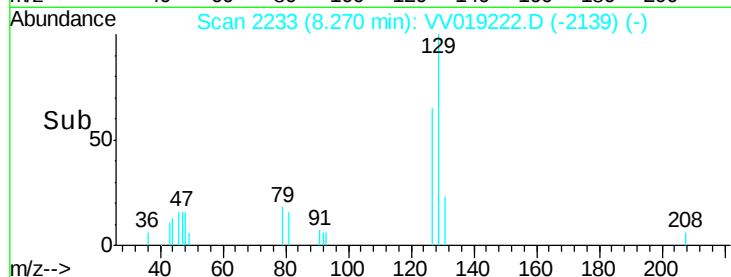
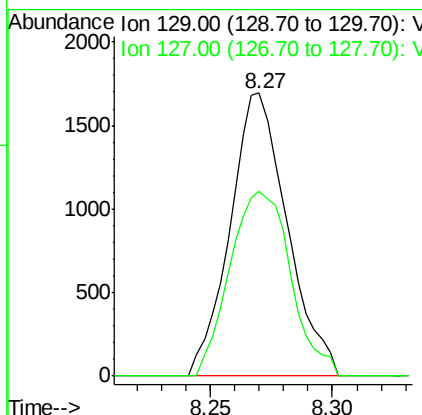
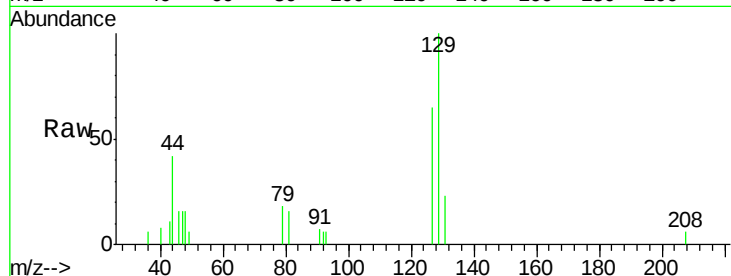
#49
 Dibromochloromethane
 Concen: 1.619 ug/L
 RT: 8.27 min Scan# 2233
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion:129 Resp: 2748
 Ion Ratio Lower Upper
 129 100
 127 65.4 54.4 101.0

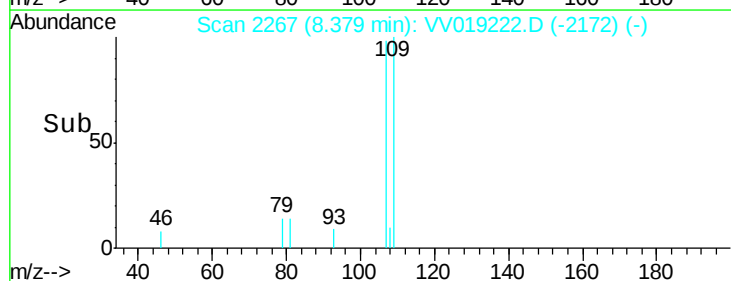
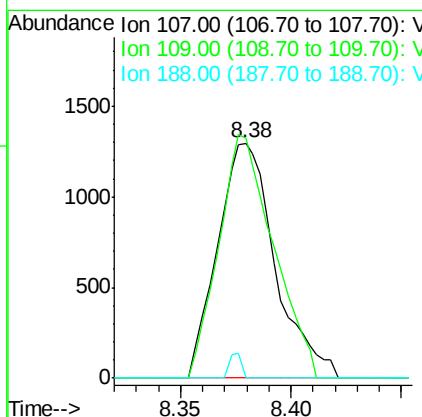
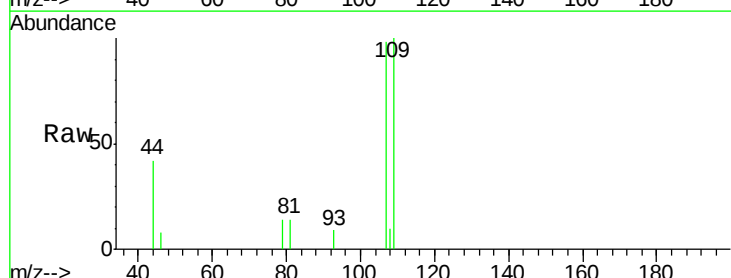
Manual Integrations
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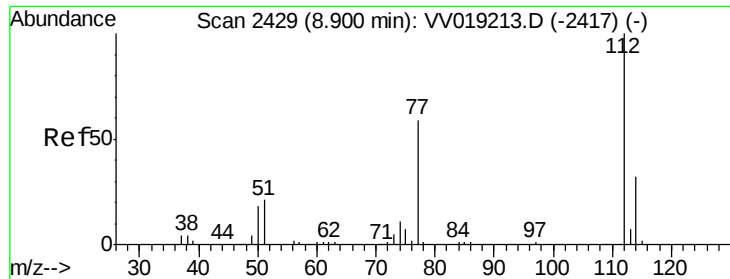
MMDadoda
 11/4/2020 10:45:00 AM



#50
 1,2-Dibromoethane
 Concen: 1.589 ug/L
 RT: 8.38 min Scan# 2267
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion:107 Resp: 2344
 Ion Ratio Lower Upper
 107 100
 109 101.8 64.8 120.4
 188 0.0 3.8 5.8#





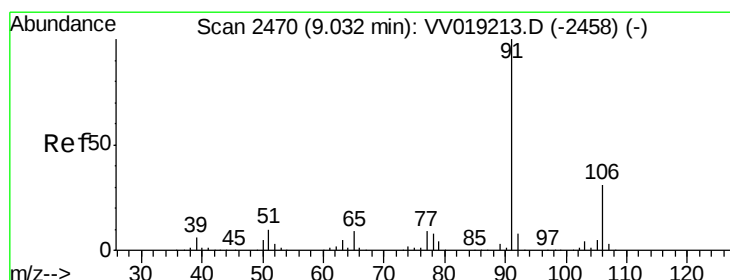
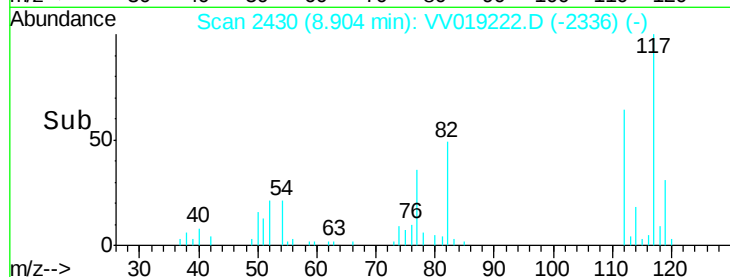
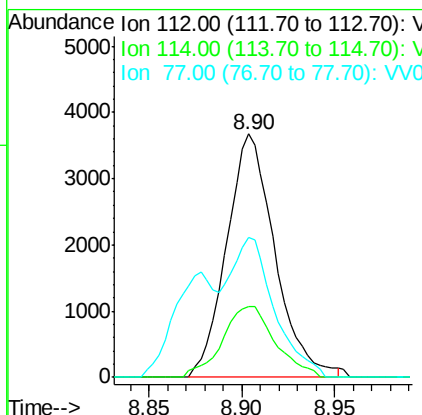
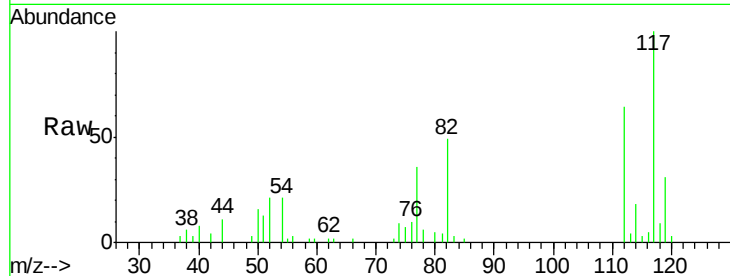
#51
Chlorobenzene
Concen: 1.706 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.1	22.7	42.1
77	57.3	47.3	70.9

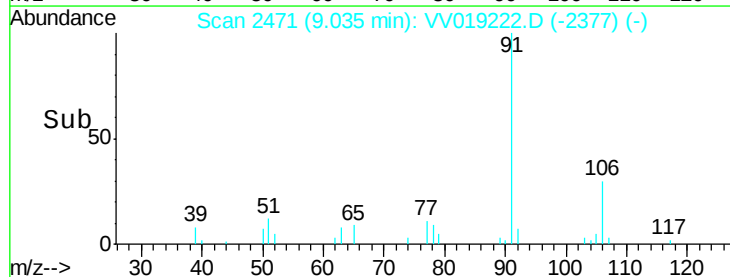
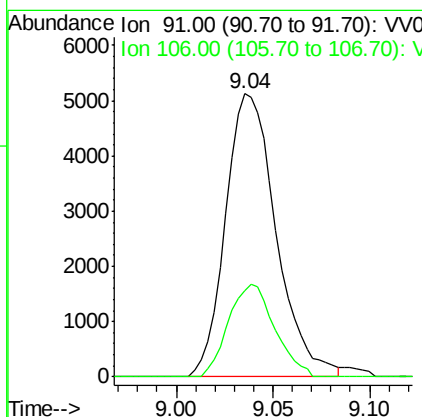
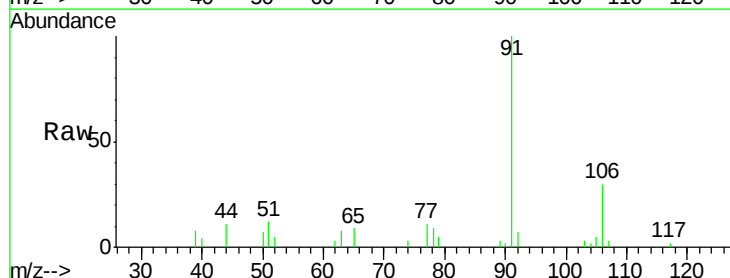
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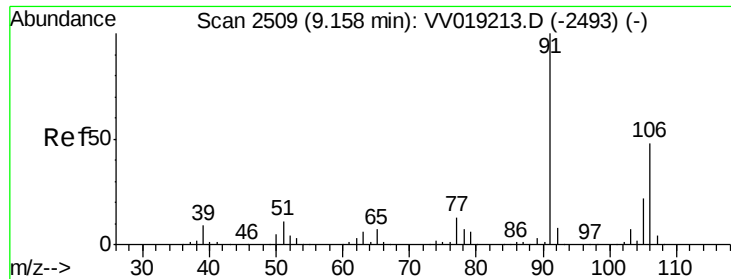
MMDadoda
11/4/2020 10:45:00 AM



#52
Ethylbenzene
Concen: 1.450 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	21.6	40.0





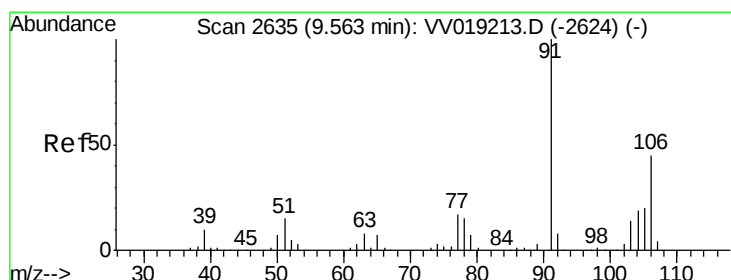
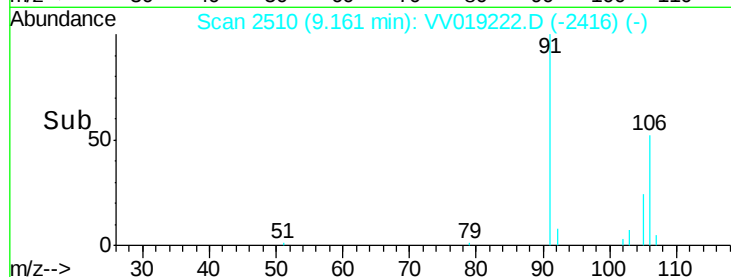
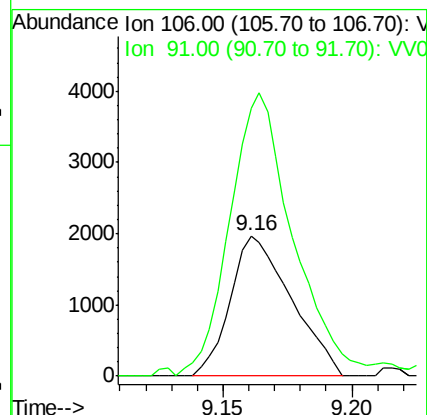
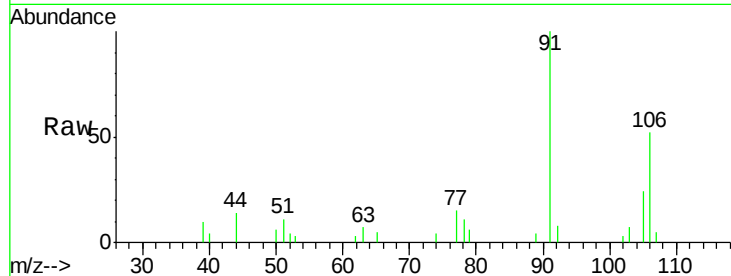
#53
m,p-Xylene
Concen: 1.349 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion:106 Resp: 3251
Ion Ratio Lower Upper
106 100
91 191.2 147.2 273.4

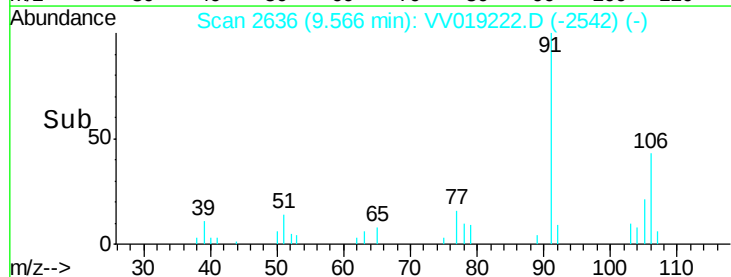
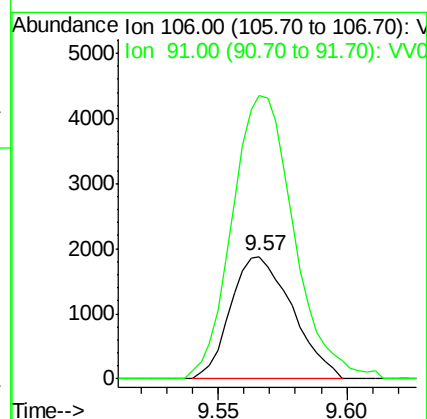
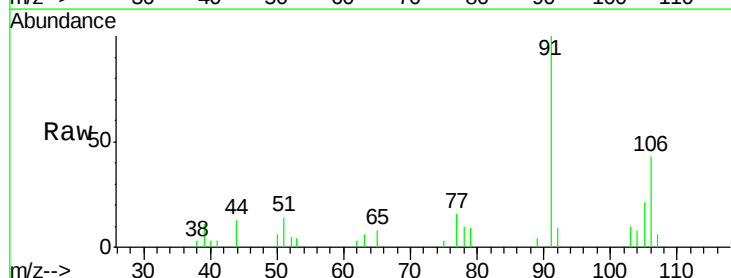
Manual Integrations
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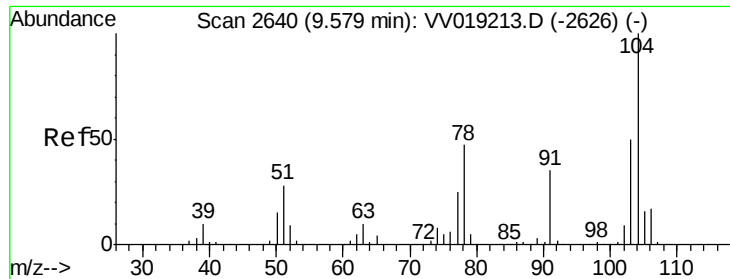
MMDadoda
11/4/2020 10:45:00 AM



#54
o-Xylene
Concen: 1.324 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion:106 Resp: 3144
Ion Ratio Lower Upper
106 100
91 231.8 151.6 281.6





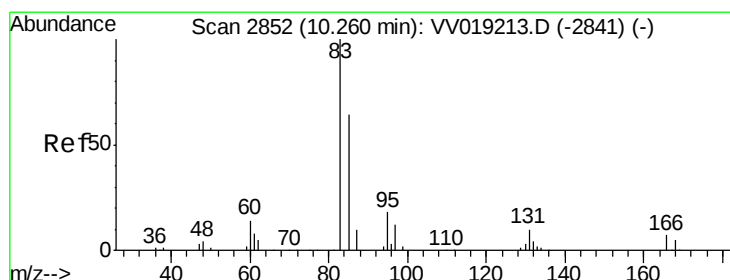
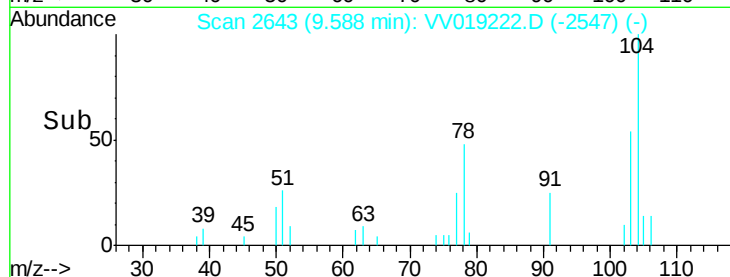
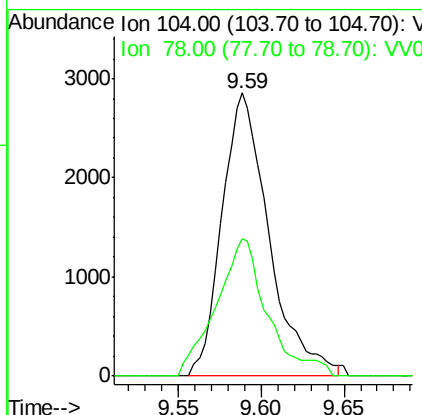
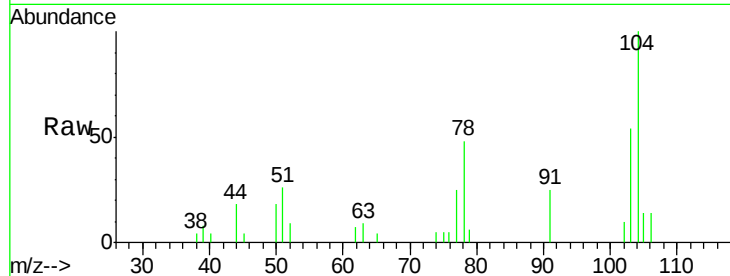
#55
Stvrene
Concen: 1.331 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion:104 Resp: 5625
Ion Ratio Lower Upper
104 100
78 48.5 32.6 60.5

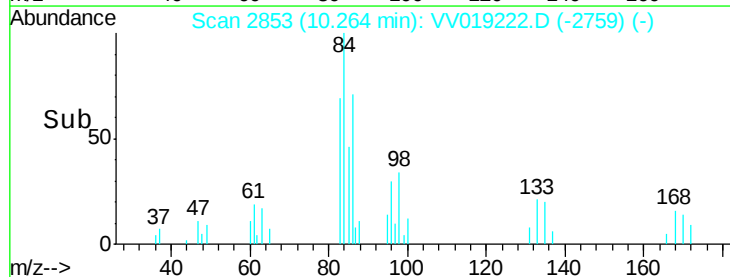
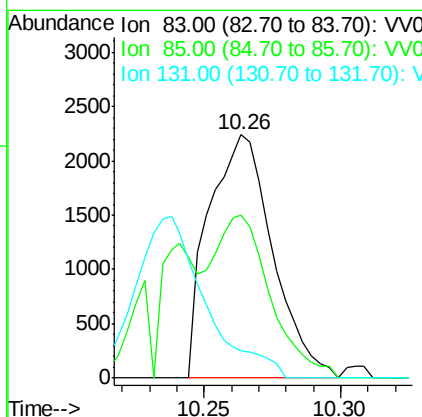
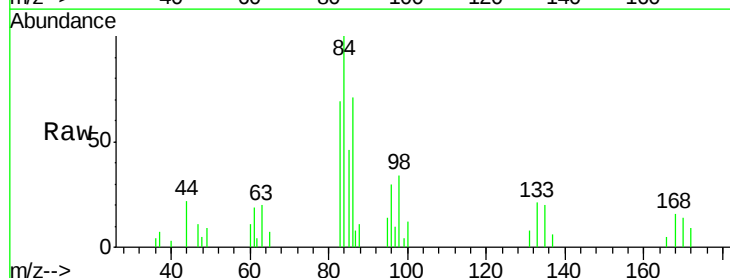
Manual Integrations
APPROVED

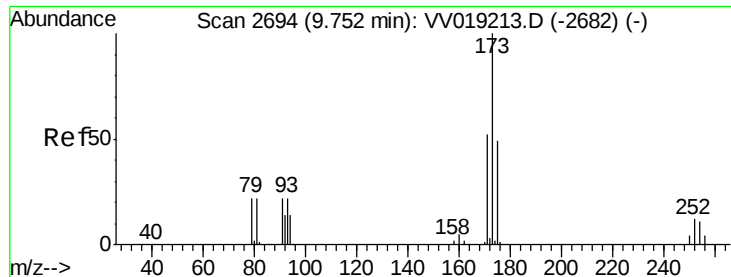
MMDadoda
11/4/2020 10:45:00 AM



#57
1,1,2,2-Tetrachloroethane
Concen: 1.691 ug/L
RT: 10.26 min Scan# 2853
Delta R.T. 0.00 min
Lab File: VV019222.D
Acq: 03 Nov 2020 01:17

Tgt Ion: 83 Resp: 3641
Ion Ratio Lower Upper
83 100
85 66.9 45.0 83.6
131 11.5 8.9 13.3





#59

Bromoform

Concen: 1.620 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

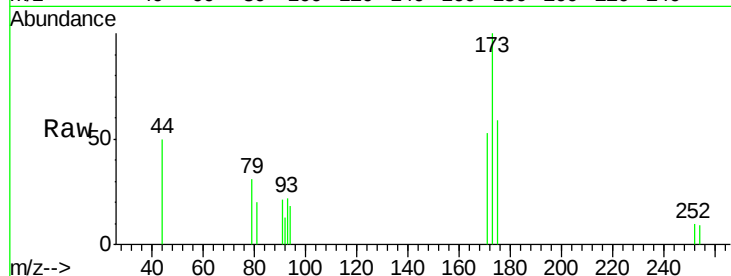
ClientSampleId :

MDL-ME-SOIL-03

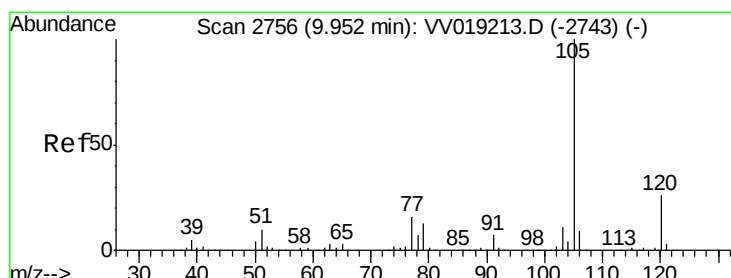
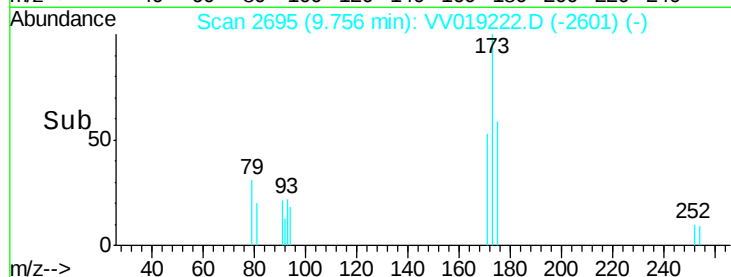
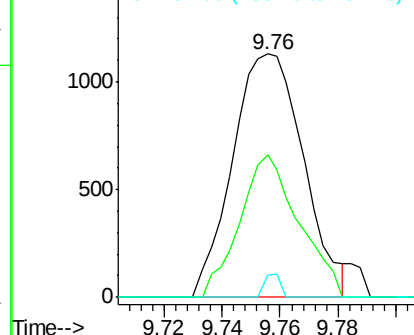
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.4	57.6
254	2.1	9.0	13.6

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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.423 ug/L

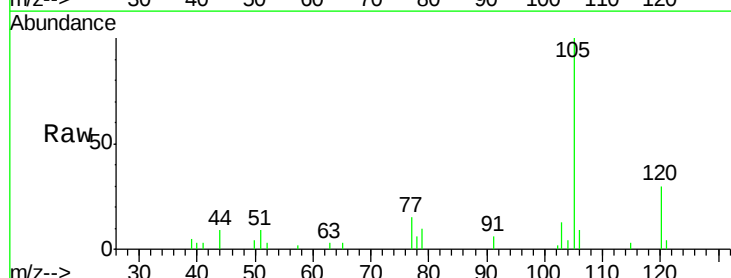
RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

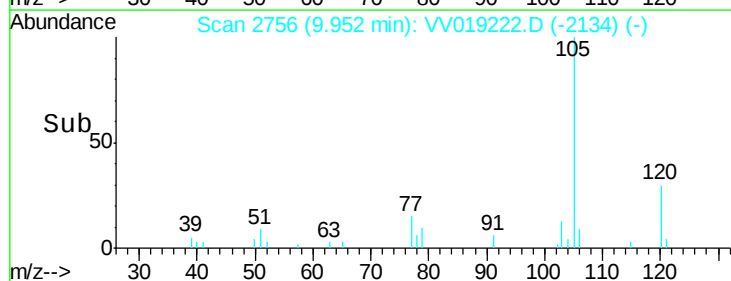
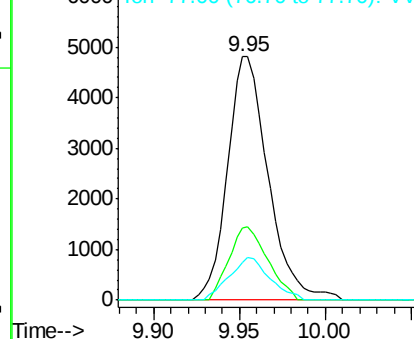
Lab File: VV019222.D

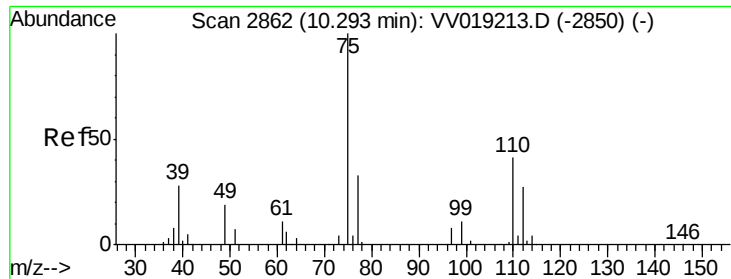
Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.5	21.0	31.4
77	17.4	13.0	19.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V





#61

1,2,3-Trichloropropane

Concen: 1.771 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 75 Resp: 2935

Ion Ratio Lower Upper

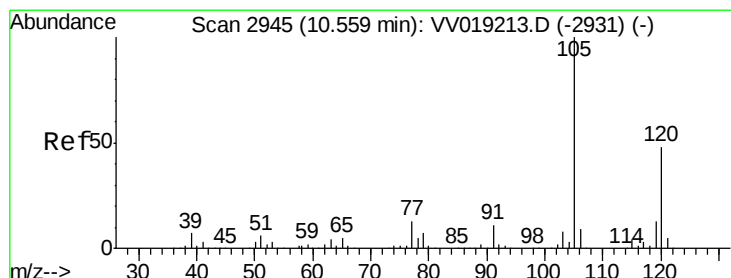
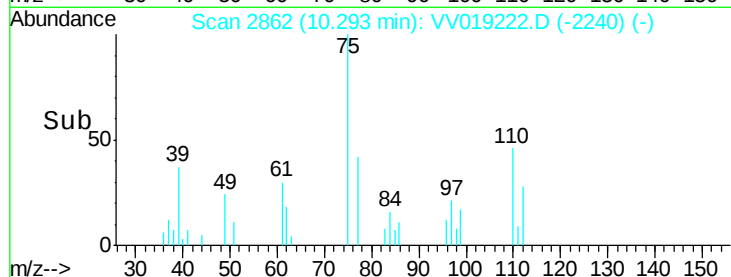
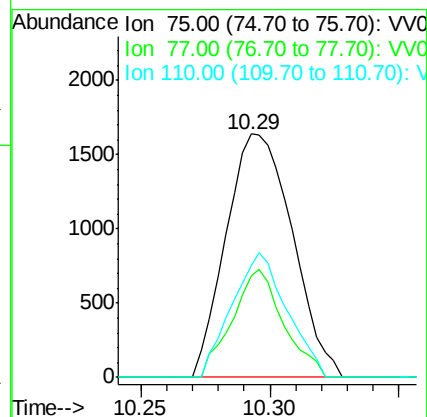
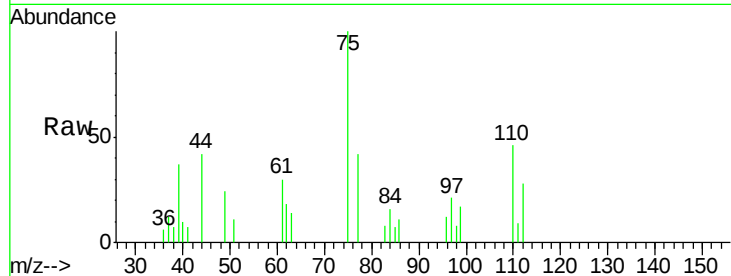
75 100

77 34.1 24.8 37.2

110 42.4 33.4 50.2

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#62

1,3,5-Trimethylbenzene

Concen: 1.384 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV019222.D

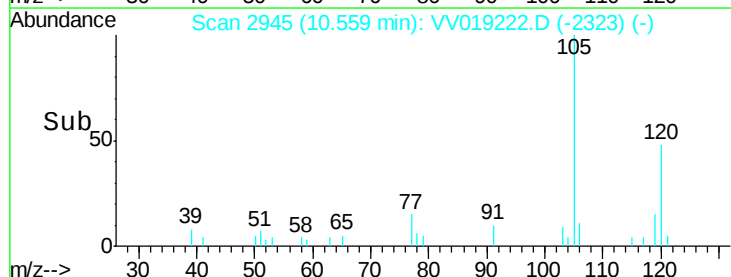
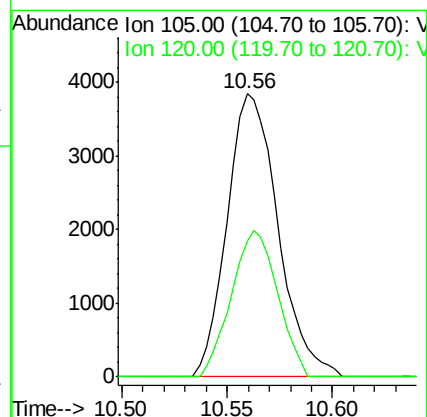
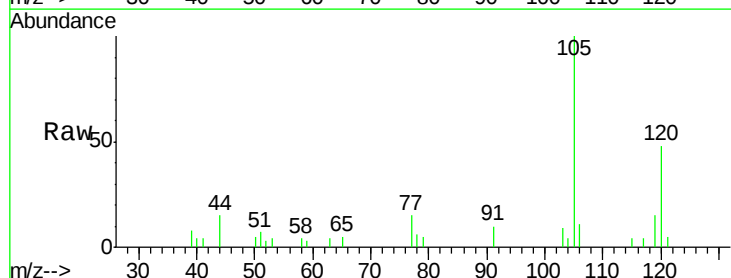
Acq: 03 Nov 2020 01:17

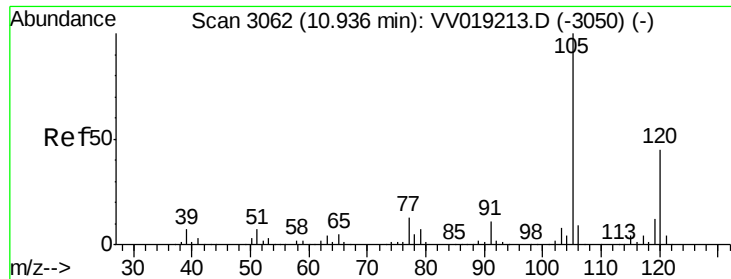
Tgt Ion: 105 Resp: 6446

Ion Ratio Lower Upper

105 100

120 46.9 38.3 57.5





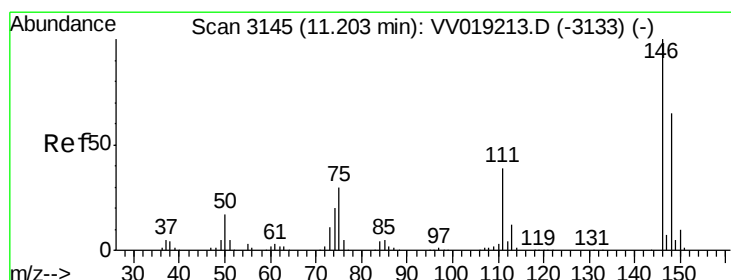
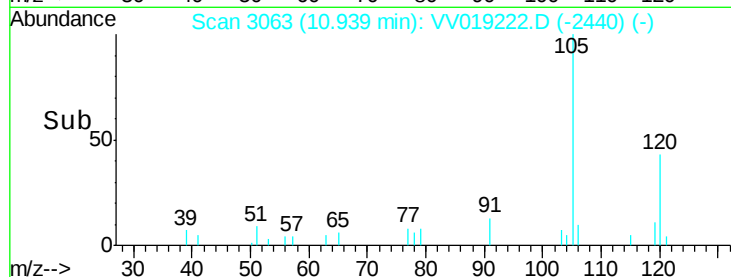
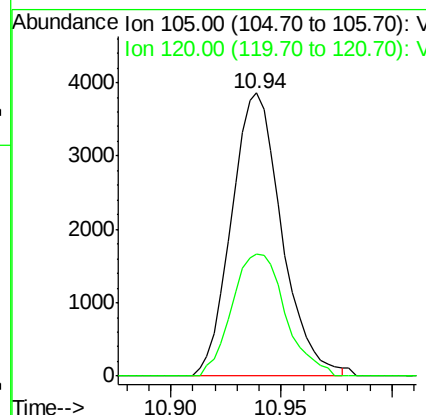
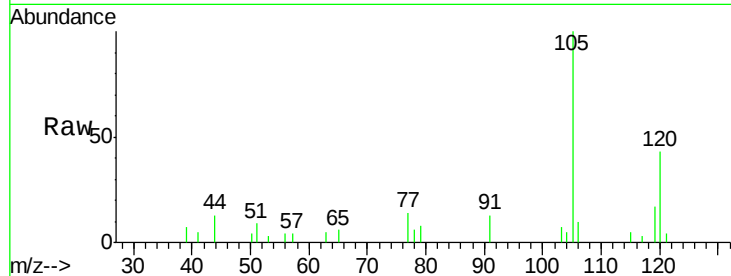
#63
 1,2,4-Trimethylbenzene
 Concen: 1.338 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion:105 Resp: 6098
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.7 53.5

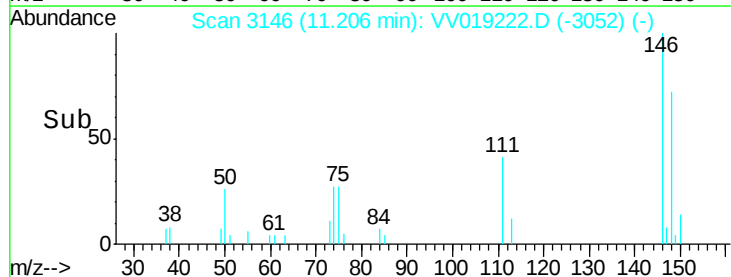
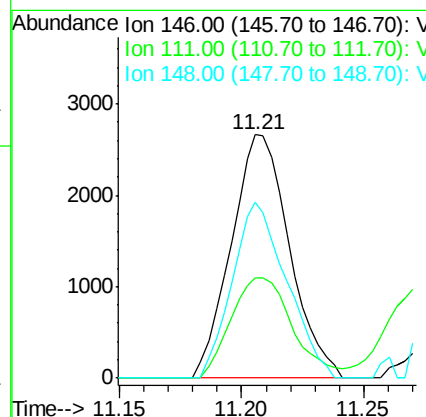
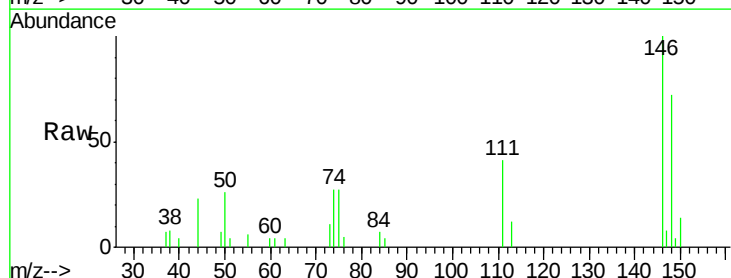
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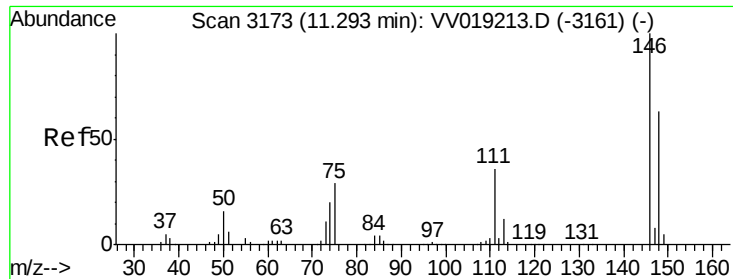
MMDadoda
 11/4/2020 10:45:00 AM



#64
 1,3-Dichlorobenzene
 Concen: 1.507 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion:146 Resp: 4407
 Ion Ratio Lower Upper
 146 100
 111 41.0 27.3 50.7
 148 72.4 45.2 84.0





#65

1,4-Dichlorobenzene

Concen: 1.784 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Instrument :

MSVOA_V

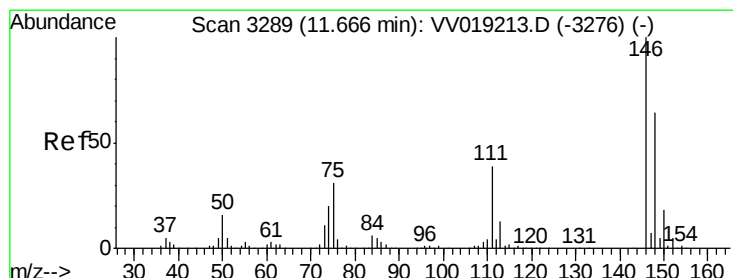
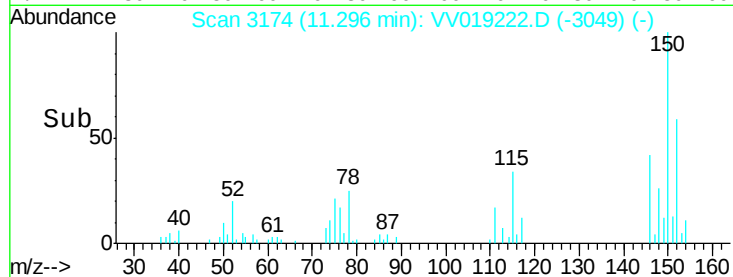
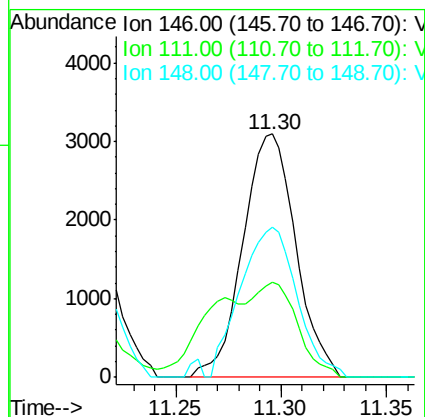
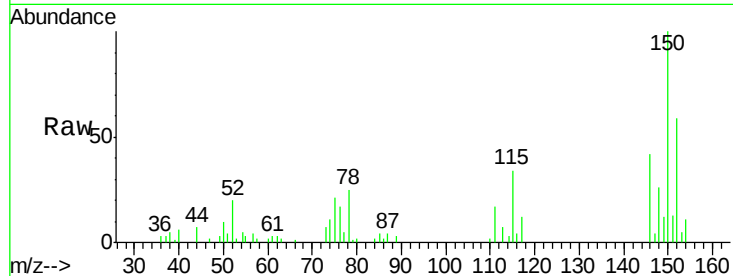
ClientSampleId :

MDL-ME-SOIL-03

Tot Ion:	146	Resp:	5398
Ion Ratio	Lower	Upper	
146	100		
111	39.0	25.9	48.1
148	61.4	44.9	83.5

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#67

1,2-Dichlorobenzene

Concen: 1.769 ug/L

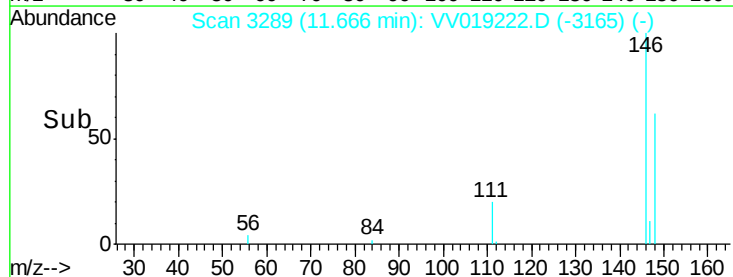
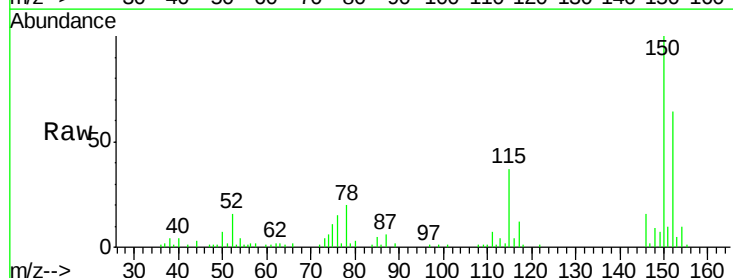
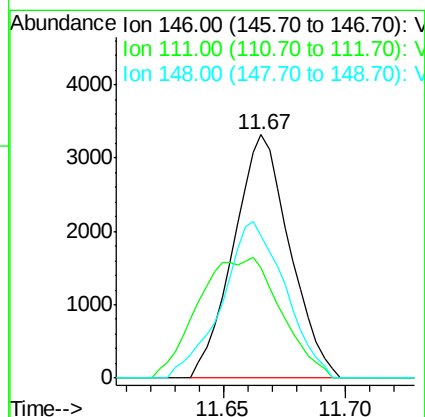
RT: 11.67 min Scan# 3289

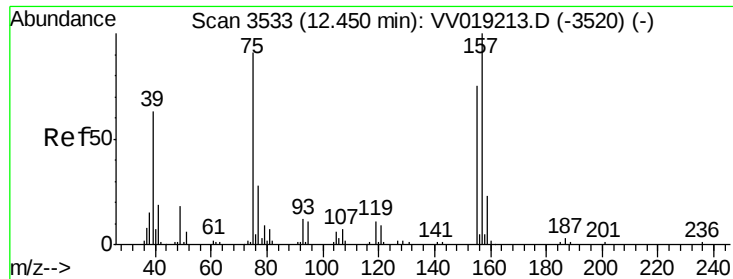
Delta R.T. -0.00 min

Lab File: VV019222.D

Acq: 03 Nov 2020 01:17

Tgt Ion:	146	Resp:	5292
Ion Ratio	Lower	Upper	
146	100		
111	45.6	32.6	48.8
148	58.5	50.1	75.1





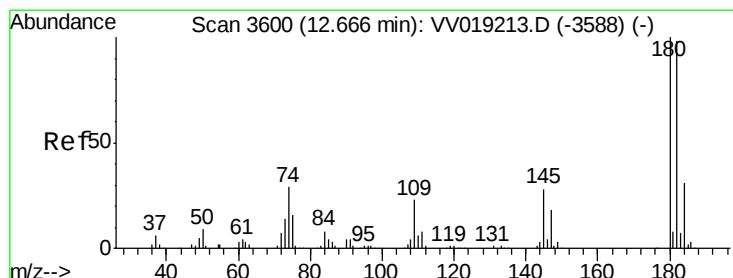
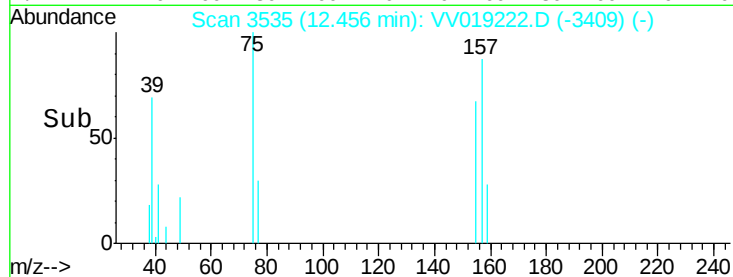
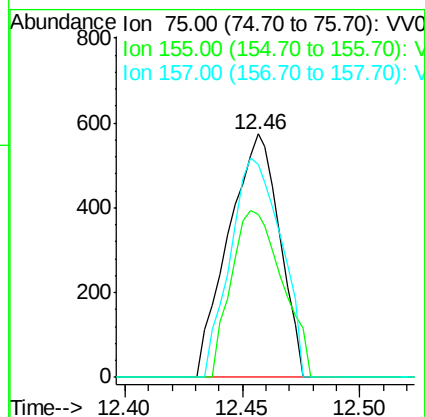
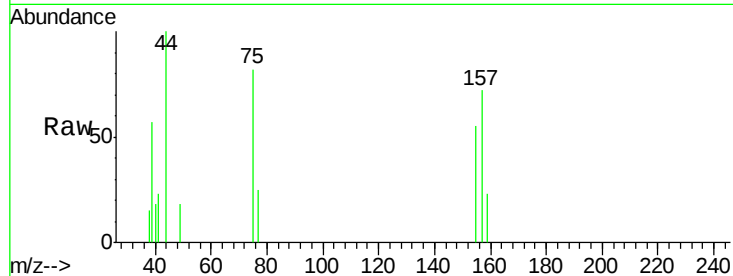
#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.791 ug/L m
 RT: 12.46 min Scan# 3535
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion: 75 Resp: 866
 Ion Ratio Lower Upper
 75 100
 155 67.2 65.8 98.6
 157 87.5 86.3 129.5

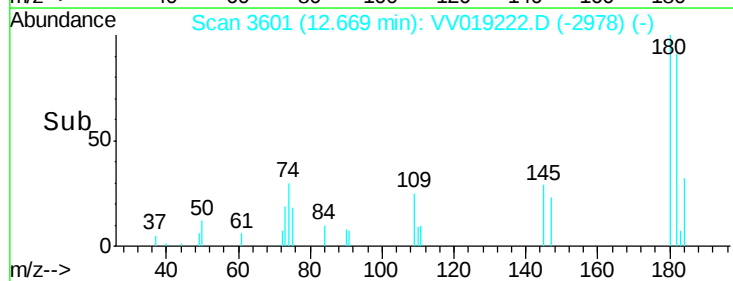
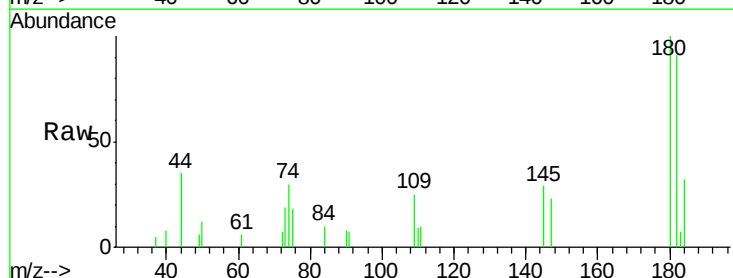
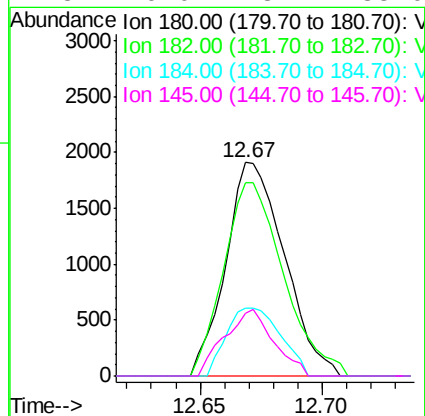
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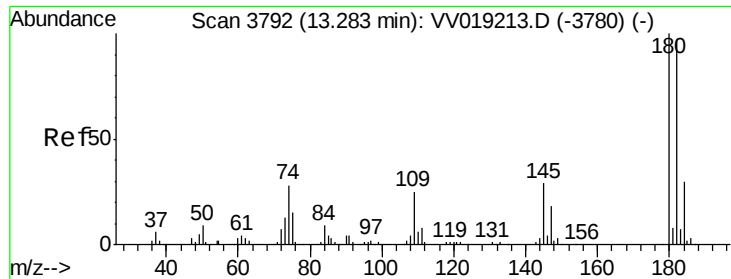
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#69
 1,3,5-Trichlorobenzene
 Concen: 1.520 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion: 180 Resp: 3191
 Ion Ratio Lower Upper
 180 100
 182 92.7 77.7 116.5
 184 29.4 24.9 37.3
 145 26.0 23.4 35.0





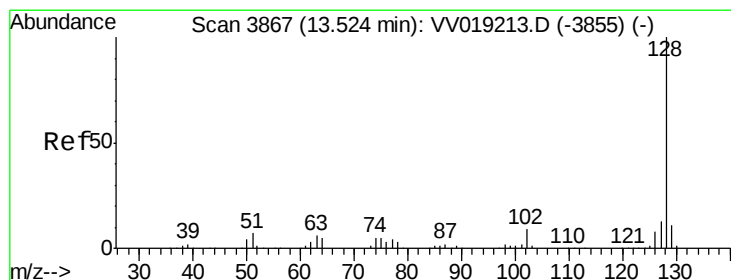
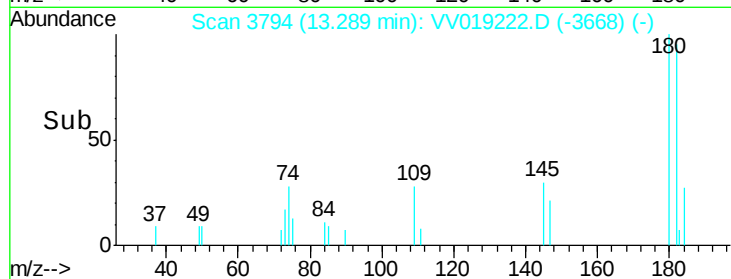
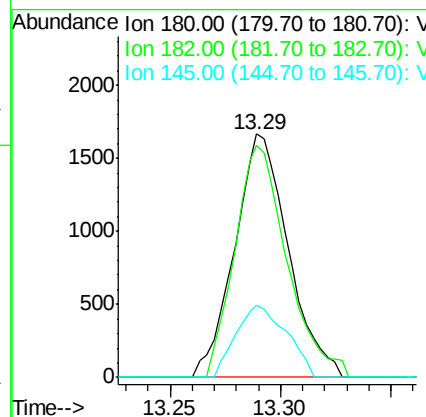
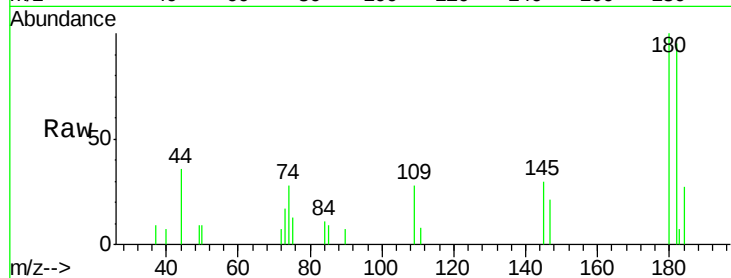
#70
 1,2,4-trichlorobenzene
 Concen: 1.429 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.7	76.6	114.8
145	27.8	23.2	34.8

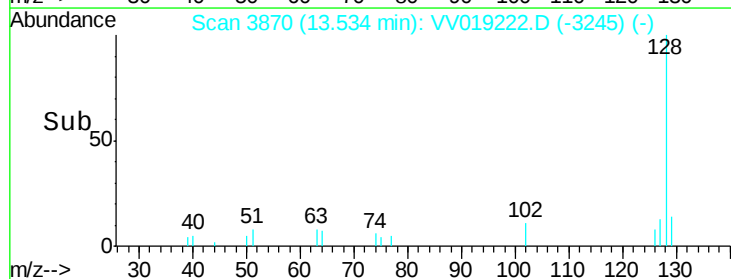
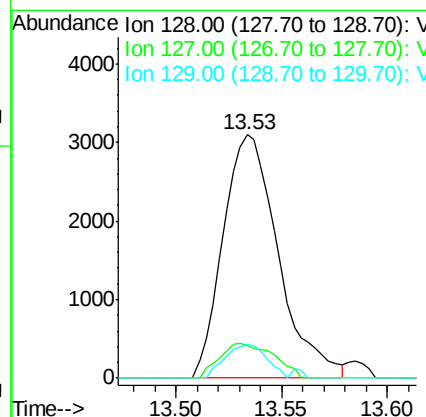
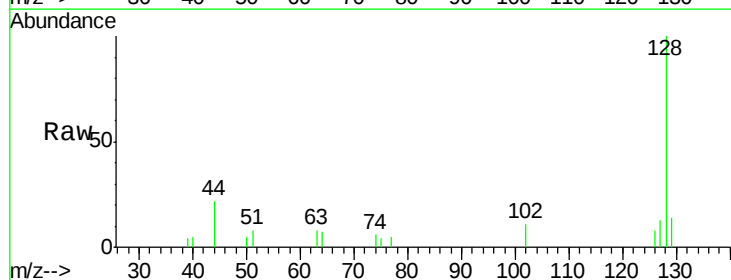
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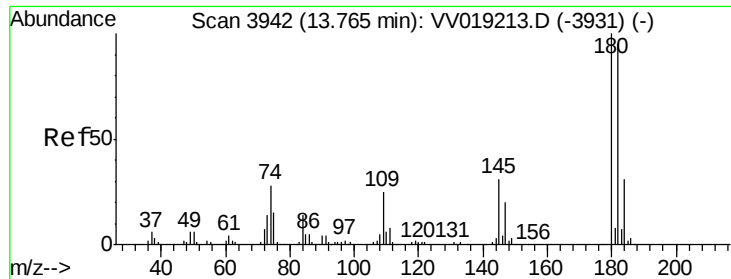
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#71
 Naphthalene
 Concen: 1.009 ug/L
 RT: 13.53 min Scan# 3870
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.7	16.1
129	10.5	8.6	13.0





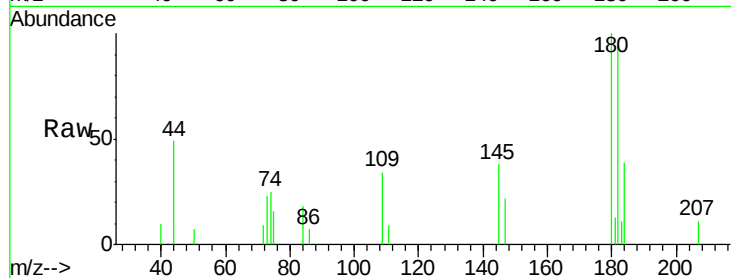
#72
 1,2,3-Trichlorobenzene
 Concen: 1.390 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV019222.D
 Acq: 03 Nov 2020 01:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.4	116.0
145	33.8	24.7	37.1

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

