

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019235.D
 Acq On : 03 Nov 2020 14:48
 Operator : SY/MD
 Sample : L4485-18
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 7:00:29 PM

Quant Time: Nov 04 07:34:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	244380	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	235875	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	122459	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	85391	45.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.56%
7) Chloroethane-d5	1.58	69	72640	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.30%
11) 1,1-Dichloroethene-d2	2.12	63	137080	39.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.52%
21) 2-Butanone-d5	3.91	46	109303	105.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.11%
24) Chloroform-d	4.37	84	166076	47.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.10%
26) 1,2-Dichloroethane-d4	5.06	65	117248	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
32) Benzene-d6	5.07	84	312414	47.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.94%
36) 1,2-Dichloropropane-d6	6.09	67	96143	49.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.88%
41) Toluene-d8	7.34	98	289879	47.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.56%
43) trans-1,3-Dichloropropene-	7.64	79	51990	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.44%
47) 2-Hexanone-d5	8.11	63	72507	96.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.04%
56) 1,1,2,2-Tetrachloroethane-	10.24	84	119496	46.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.24%
66) 1,2-Dichlorobenzene-d4	11.65	152	121765	49.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3489	2.330 ug/L	99
3) Chloromethane	1.25	50	3416	2.191 ug/L	94
5) Vinyl chloride	1.32	62	4044	2.492 ug/L #	52
6) Bromomethane	1.53	94	2586	2.371 ug/L	96
8) Chloroethane	1.60	64	2536	2.390 ug/L	93
9) Trichlorofluoromethane	1.77	101	6327	2.355 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4177	3.272 ug/L #	80
12) 1,1-Dichloroethene	2.13	96	4066	3.082 ug/L #	1
13) Acetone	2.19	43	4560	5.766 ug/L	95
14) Carbon disulfide	2.31	76	9069	2.394 ug/L	96
15) Methyl Acetate	2.46	43	3441	2.246 ug/L #	81
16) Methylene chloride	2.52	84	3620	2.308 ug/L	91
17) trans-1,2-Dichloroethene	2.78	96	2892	2.021 ug/L	92
18) Methyl tert-butyl Ether	2.78	73	10551	2.097 ug/L	98
19) 1,1-Dichloroethane	3.22	63	6120	2.182 ug/L	92
20) cis-1,2-Dichloroethene	3.94	96	3373	2.133 ug/L	99
22) 2-Butanone	4.05	43	3042m	3.030 ug/L	

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Manual Integrations
 APPROVED

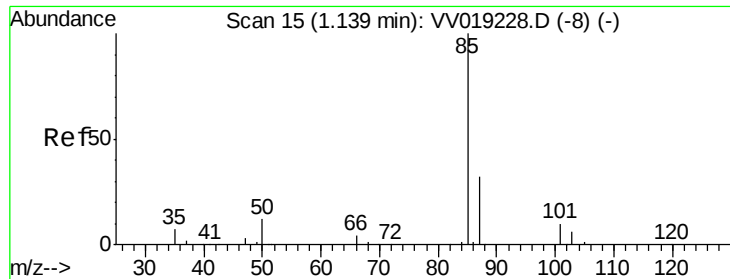
MMDadoda
 11/5/2020 7:00:29 PM

Quant Time: Nov 04 07:34:00 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	4.29	128	1950m	2.239	ug/L	
25) Chloroform	4.41	83	8045	2.676	ug/L	98
27) 1,2-Dichloroethane	5.16	62	5294m	2.072	ug/L	
29) Cyclohexane	4.71	56	4462m	2.210	ug/L	
30) 1,1,1-Trichloroethane	4.64	97	5716	2.089	ug/L #	88
31) Carbon tetrachloride	4.86	117	4855	2.055	ug/L	97
33) Benzene	5.13	78	13159	2.245	ug/L	100
34) Trichloroethene	5.94	95	3427	2.151	ug/L	94
35) Methylcyclohexane	6.16	83	4037	2.094	ug/L	91
37) 1,2-Dichloropropane	6.21	63	3429m	2.192	ug/L	
38) Bromodichloromethane	6.54	83	4730	2.101	ug/L	92
39) cis-1,3-Dichloropropene	7.05	75	5132m	2.050	ug/L	
40) 4-Methyl-2-pentanone	7.25	43	8397	3.995	ug/L	98
42) Toluene	7.41	91	15030	2.372	ug/L	99
44) trans-1,3-Dichloropropene	7.68	75	5371	2.094	ug/L	95
45) 1,1,2-Trichloroethane	7.86	97	3254	2.104	ug/L	92
46) Tetrachloroethene	8.00	164	2694	2.073	ug/L	90
48) 2-Hexanone	8.16	43	9524m	5.994	ug/L	
49) Dibromochloromethane	8.27	129	3600	1.952	ug/L	96
50) 1,2-Dibromoethane	8.38	107	3444	2.149	ug/L #	94
51) Chlorobenzene	8.90	112	9253	2.183	ug/L	98
52) Ethylbenzene	9.04	91	14013	2.005	ug/L	97
53) m,p-Xylene	9.16	106	5165	1.974	ug/L	99
54) o-Xylene	9.57	106	5017	1.945	ug/L	99
55) Styrene	9.59	104	8612	1.875	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.26	83	5394	2.306	ug/L	89
59) Bromoform	9.76	173	2632	1.937	ug/L #	97
60) Isopropylbenzene	9.95	105	12518	1.950	ug/L	99
61) 1,2,3-Trichloropropane	10.30	75	4334	2.278	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	10512	1.966	ug/L	99
63) 1,2,4-Trimethylbenzene	10.94	105	10171	1.944	ug/L	98
64) 1,3-Dichlorobenzene	11.21	146	6781	2.020	ug/L	88
65) 1,4-Dichlorobenzene	11.30	146	8542	2.459	ug/L	95
67) 1,2-Dichlorobenzene	11.67	146	8420	2.452	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.45	75	1021	1.840	ug/L	89
69) 1,3,5-Trichlorobenzene	12.67	180	5140	2.133	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4540	2.002	ug/L	95
71) Naphthalene	13.53	128	9132	1.428	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	4048	1.801	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 2.330 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 85 Resp: 3489

Ion Ratio Lower Upper

85 100

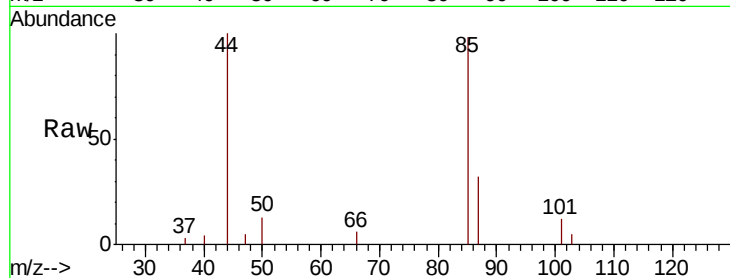
87 32.8 25.9 38.9

Manual Integrations

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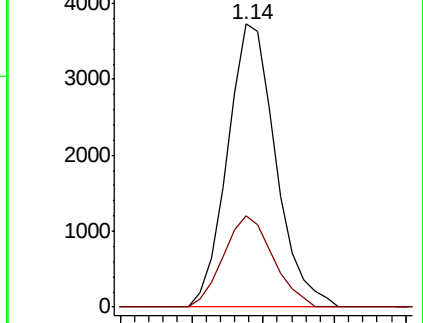
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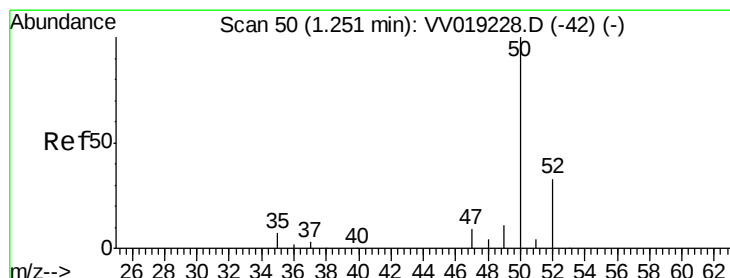
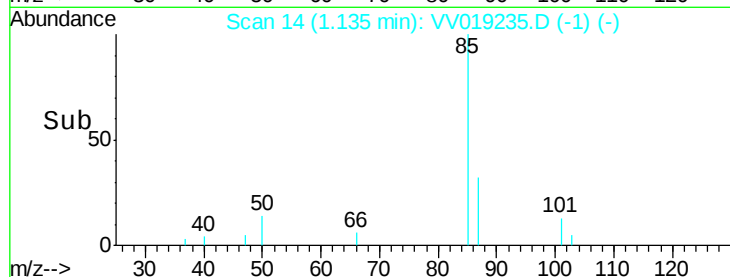


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#3

Chloromethane

Concen: 2.191 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019235.D

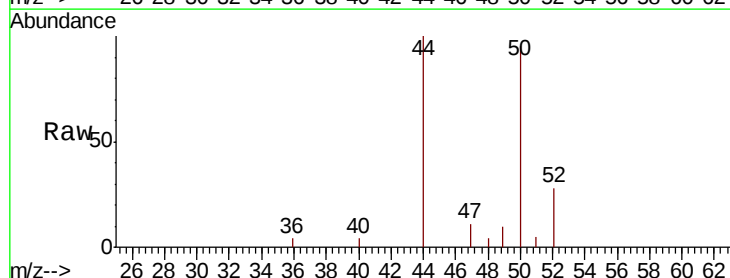
Acq: 03 Nov 2020 14:48

Tgt Ion: 50 Resp: 3416

Ion Ratio Lower Upper

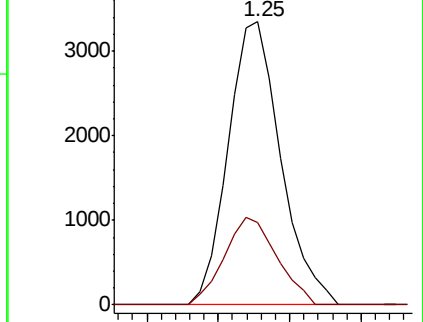
50 100

52 29.2 23.0 42.6

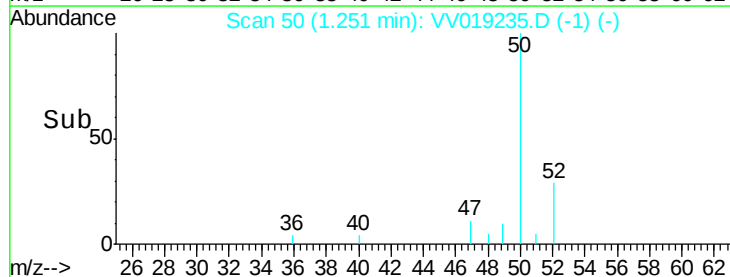


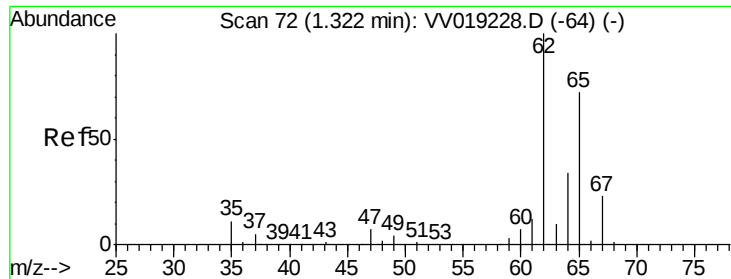
Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



Time-->





#5

Vinyl chloride

Concen: 2.492 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 62 Resp: 4044

Ion Ratio Lower Upper

62 100

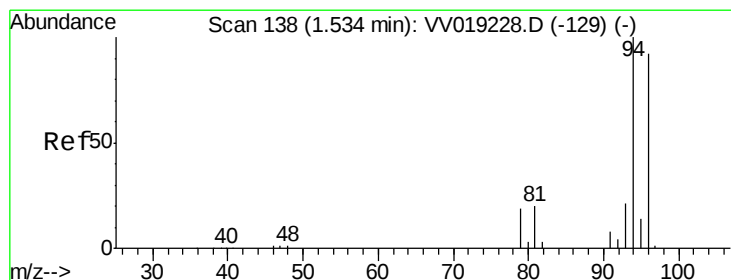
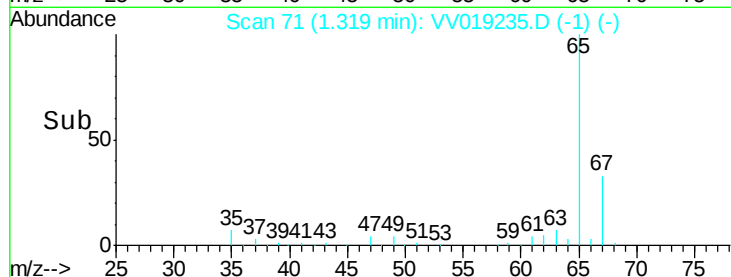
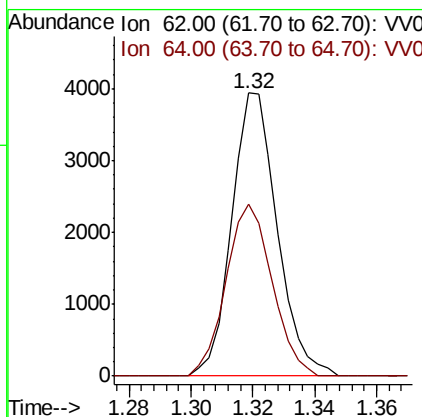
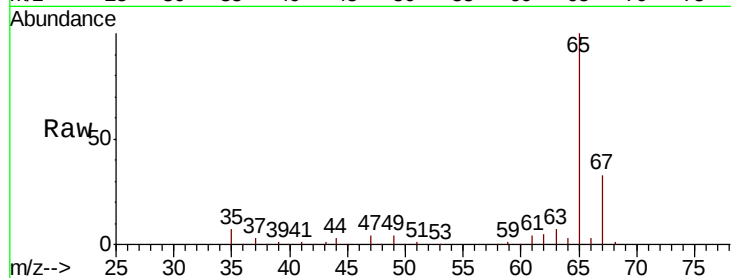
64 60.7 23.3 43.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.371 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019235.D

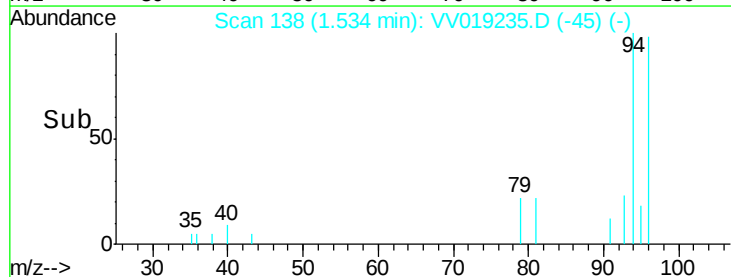
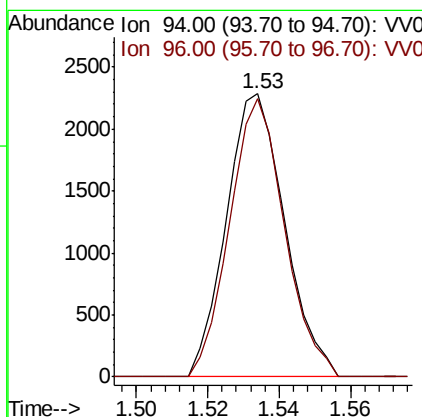
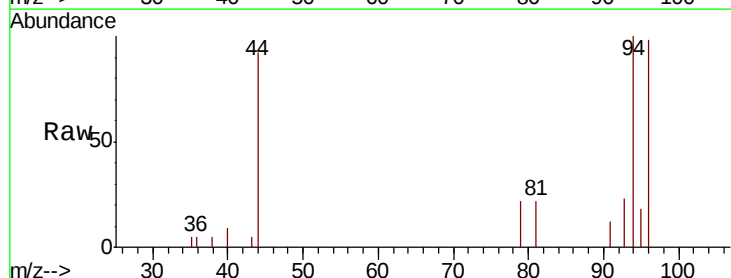
Acq: 03 Nov 2020 14:48

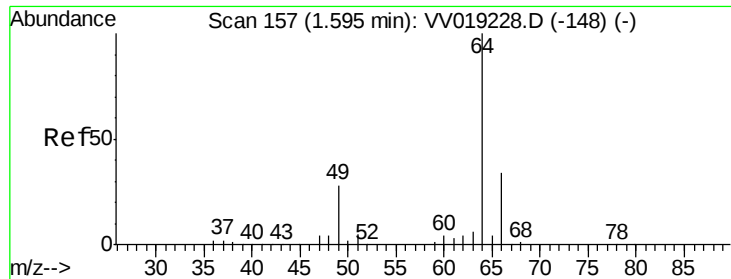
Tgt Ion: 94 Resp: 2586

Ion Ratio Lower Upper

94 100

96 98.2 66.4 123.2





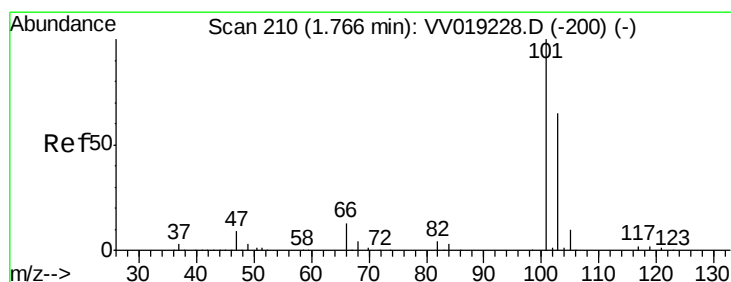
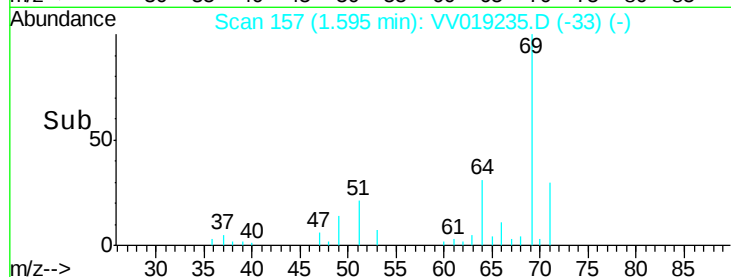
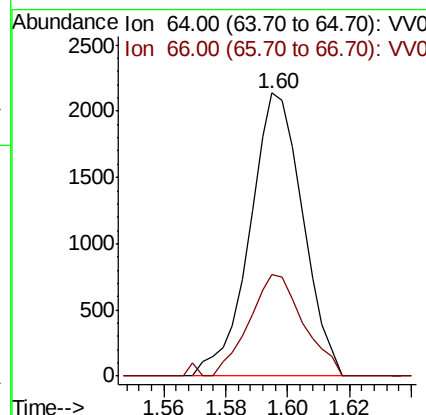
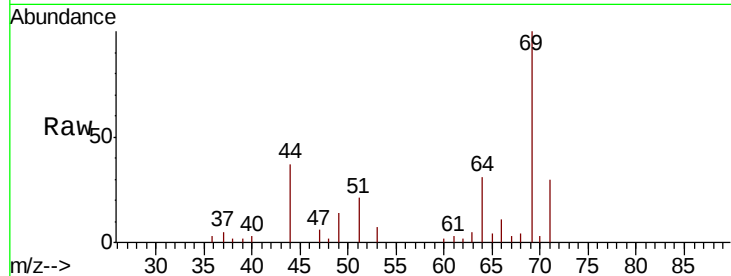
#8
Chloroethane
Concen: 2.390 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
64	100		
66	36.1	22.5	41.9

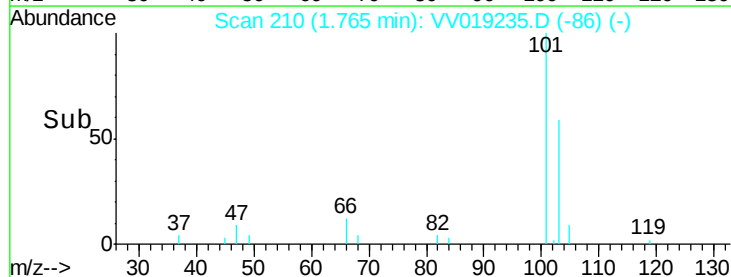
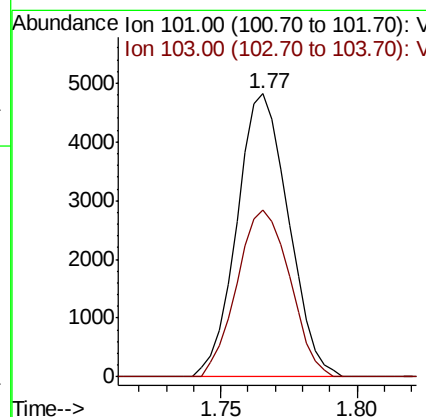
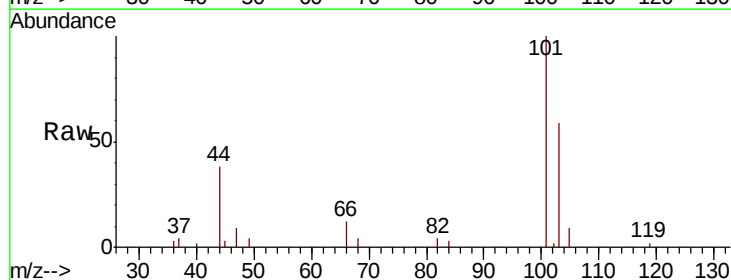
Manual Integrations
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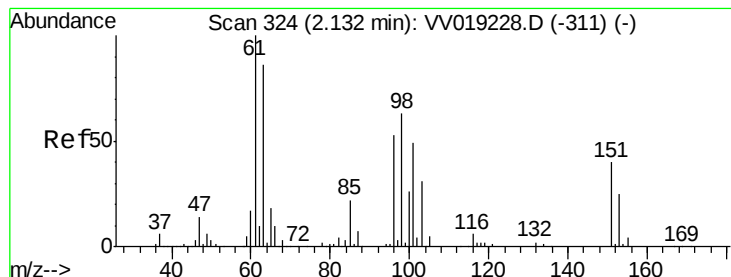
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11/5/2020 7:00:29 PM



#9
Trichlorofluoromethane
Concen: 2.355 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion	Ratio	Lower	Upper
101	100		
103	60.4	52.3	78.5





#10

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

Concen: 3.272 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

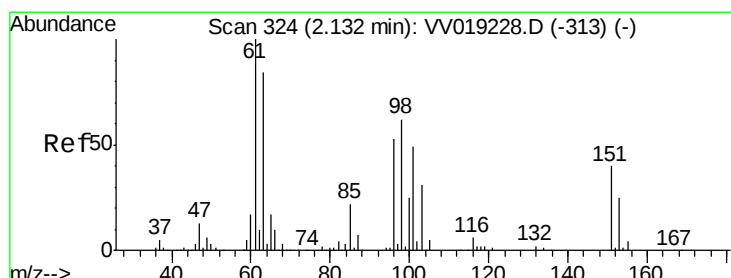
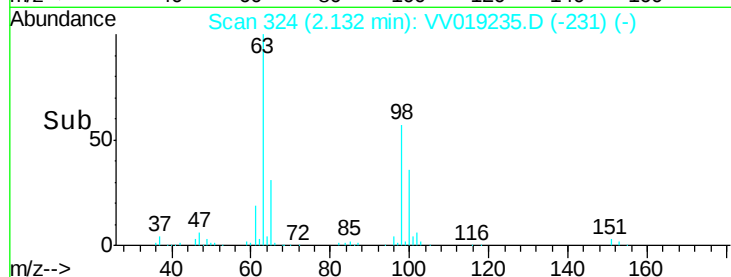
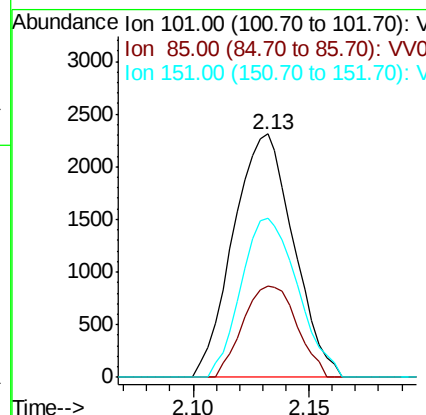
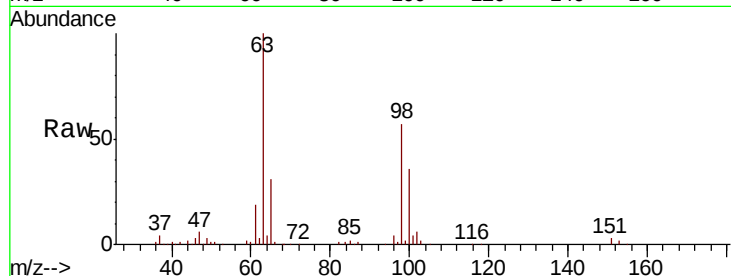
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	101	Resp:	4177
Ion Ratio	Lower	Upper	
101	100		
85	33.6	35.6	53.4#
151	61.5	64.1	96.1#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.082 ug/L

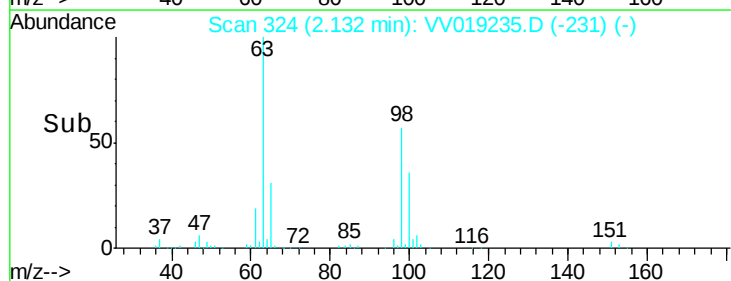
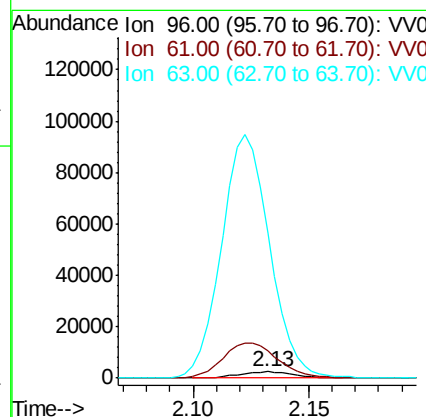
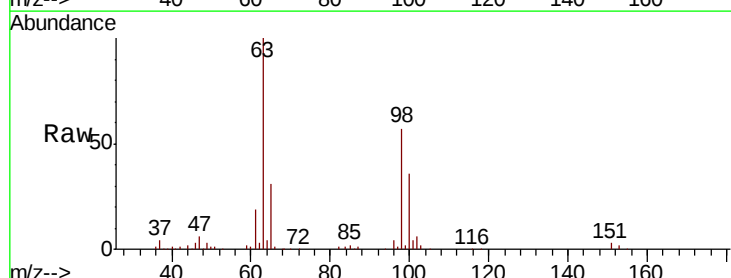
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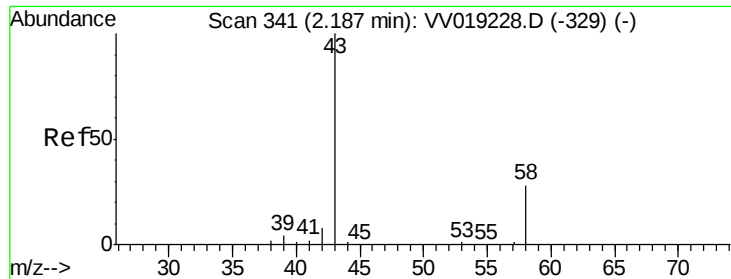
Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:	96	Resp:	4066
Ion Ratio	Lower	Upper	
96	100		
61	433.2	133.6	248.0#
63	2308.1	103.0	191.2#





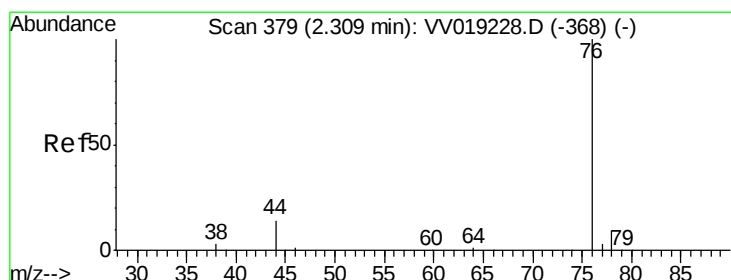
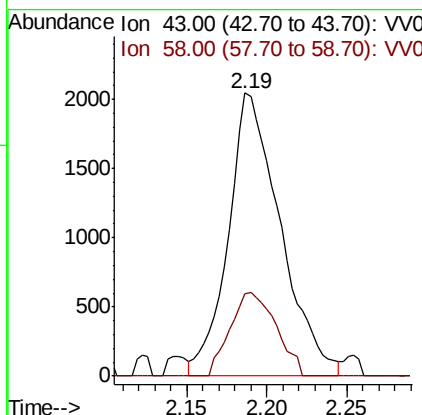
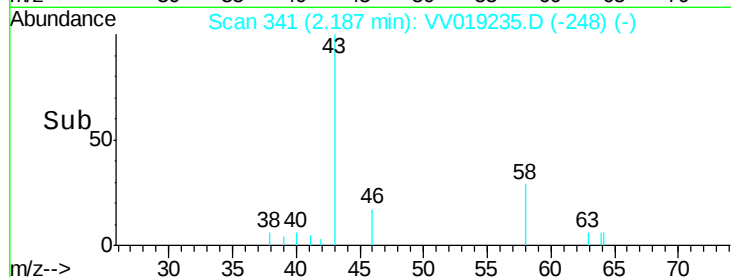
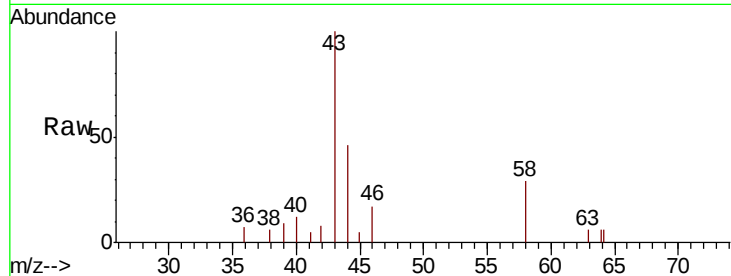
#13
Acetone
Concen: 5.766 ug/L
RT: 2.19 min Scan# 341
Delta R.T. -0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 4560
Ion Ratio Lower Upper
43 100
58 26.0 0.0 57.8

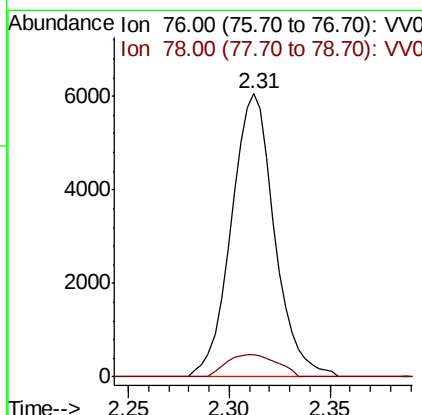
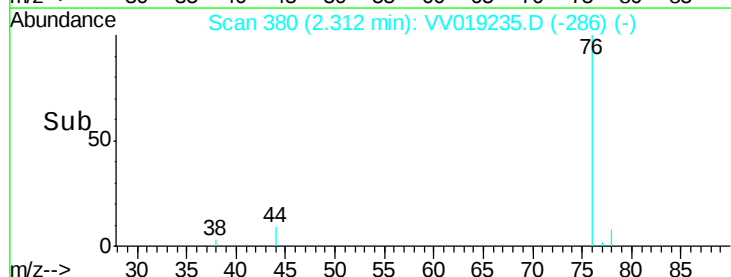
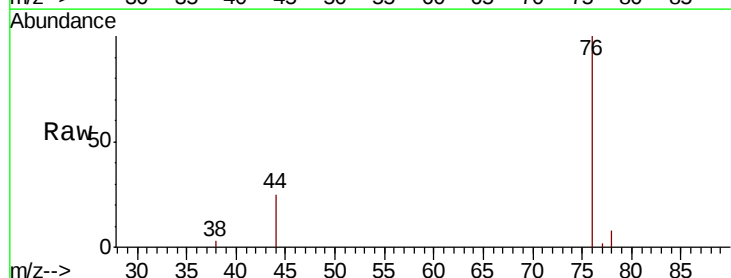
Manual Integrations
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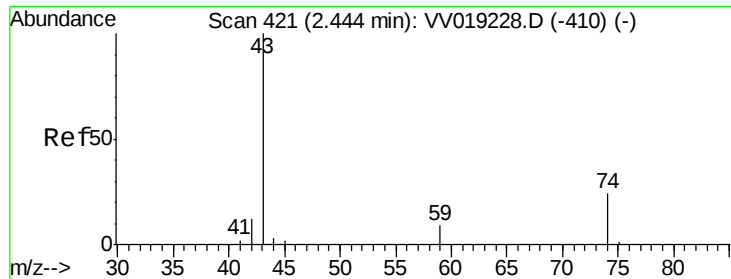
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#14
Carbon disulfide
Concen: 2.394 ug/L
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 76 Resp: 9069
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.0





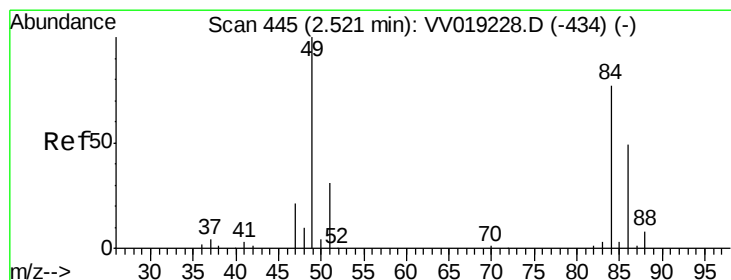
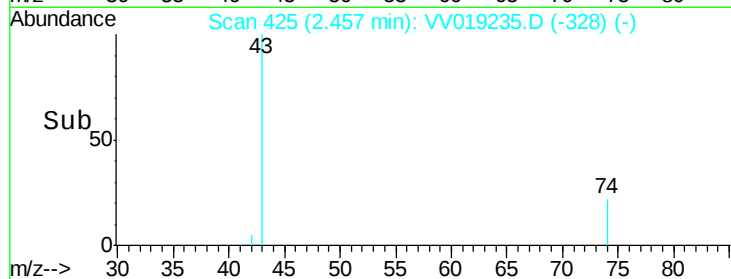
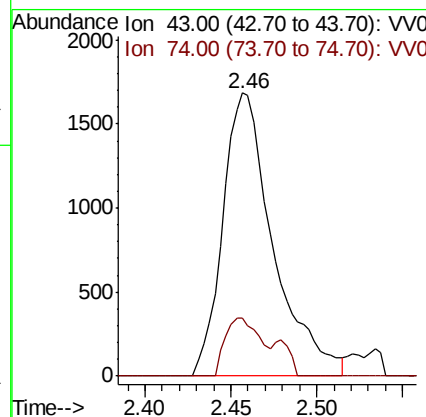
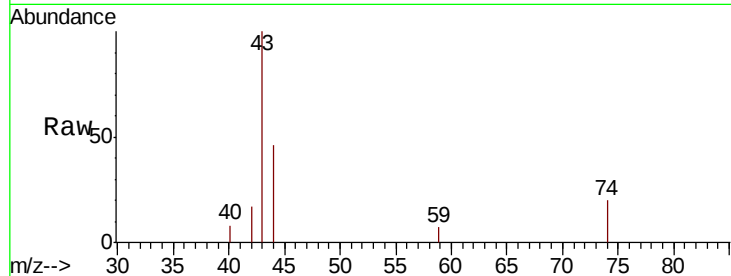
#15
Methvl Acetate
Concen: 2.246 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 3441
Ion Ratio Lower Upper
43 100
74 14.3 18.8 28.2#

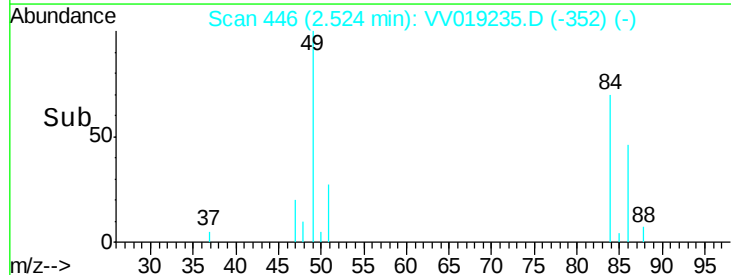
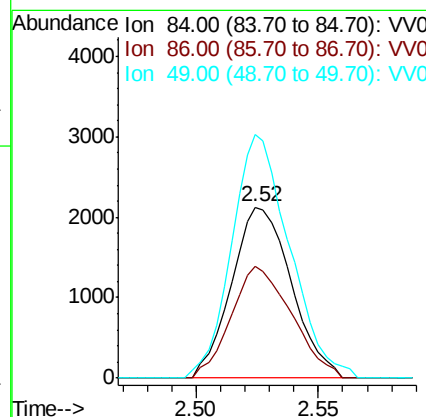
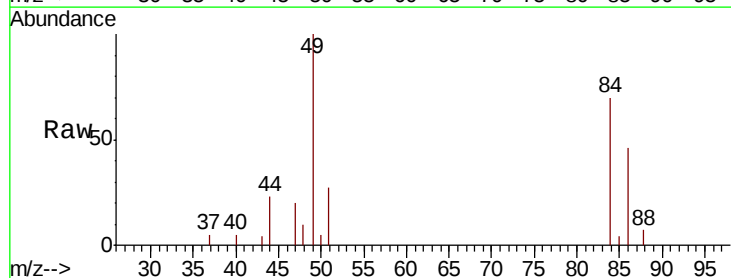
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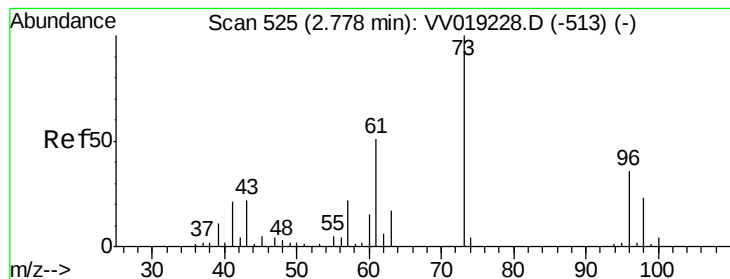
MMDadoda
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#16
Methylene chloride
Concen: 2.308 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 84 Resp: 3620
Ion Ratio Lower Upper
84 100
86 65.6 45.6 84.8
49 142.2 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.021 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

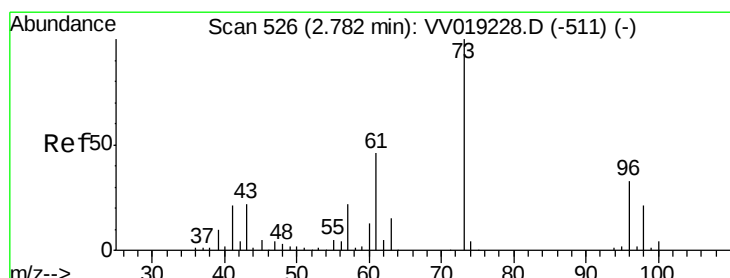
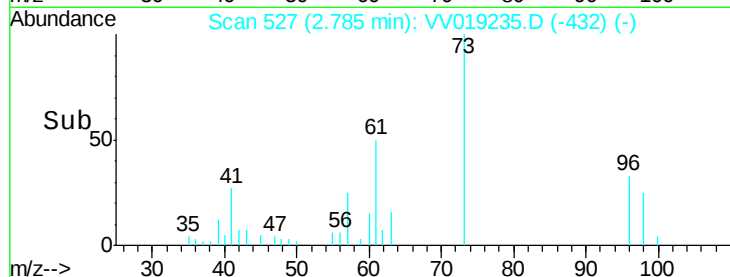
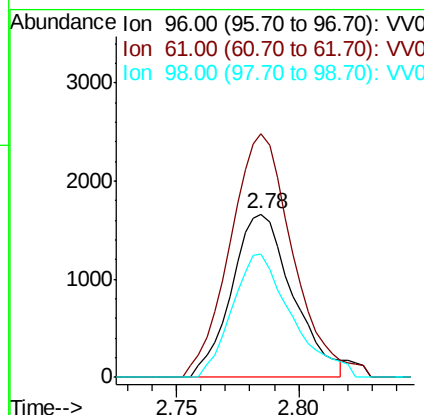
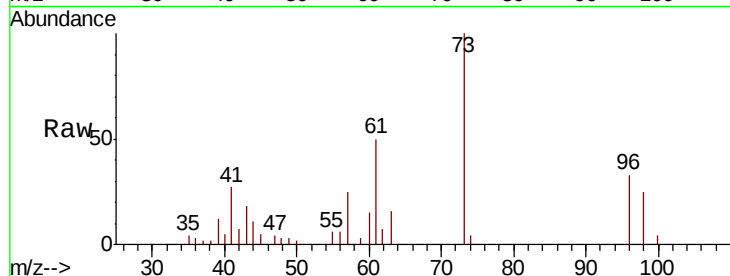
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	96	Resp:	2892
Ion	Ratio	Lower	Upper
96	100		
61	148.9	100.7	187.1
98	75.6	42.9	79.7

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#18

Methyl tert-butyl Ether

Concen: 2.097 ug/L

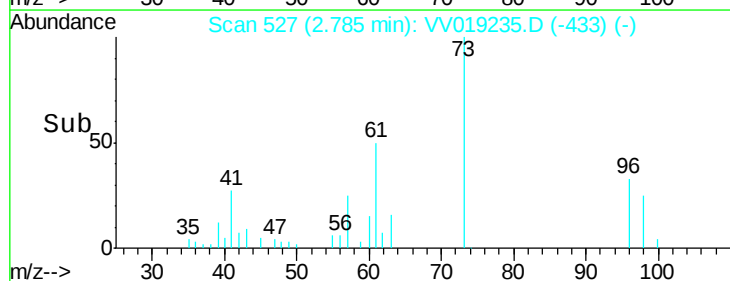
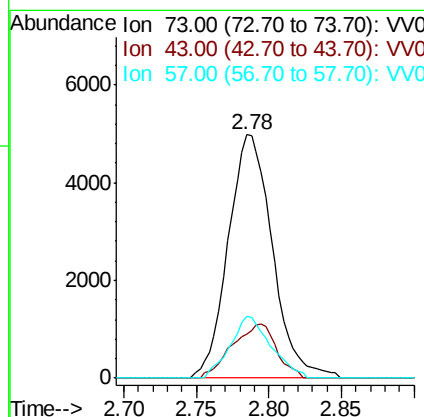
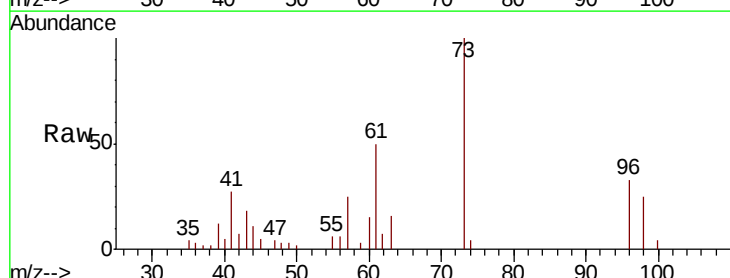
RT: 2.78 min Scan# 527

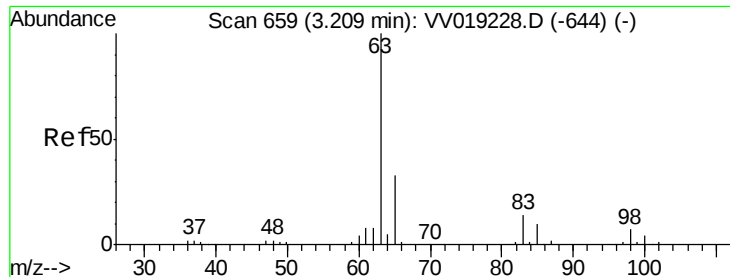
Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:	73	Resp:	10551
Ion	Ratio	Lower	Upper
73	100		
43	22.4	17.9	26.9
57	23.3	17.1	25.7





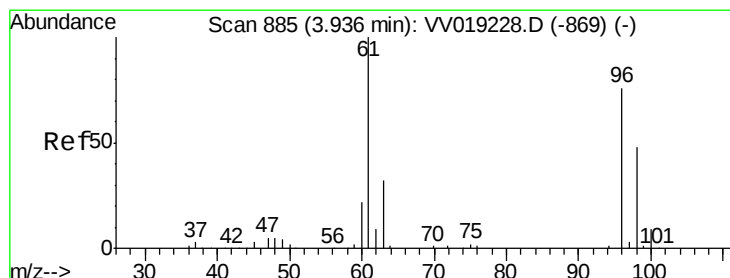
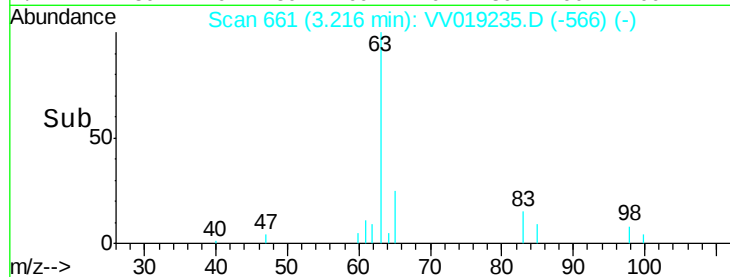
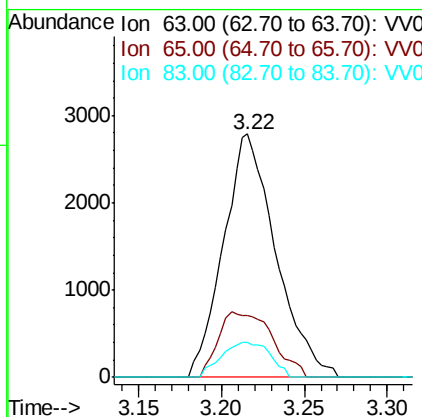
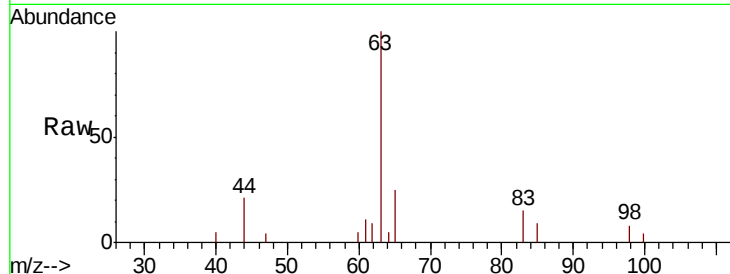
#19
 1,1-Dichloroethane
 Concen: 2.182 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
63	100		
65	25.3	21.8	40.6
83	14.6	9.5	17.7

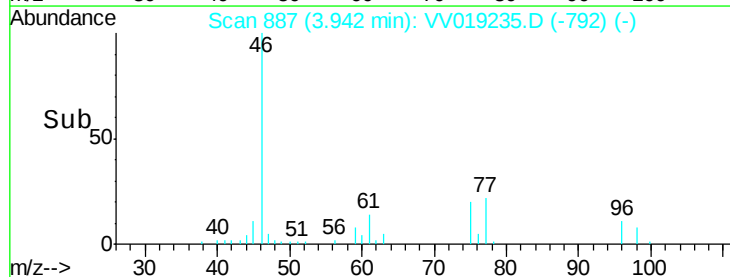
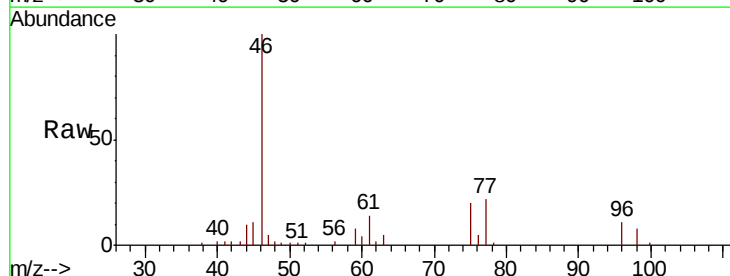
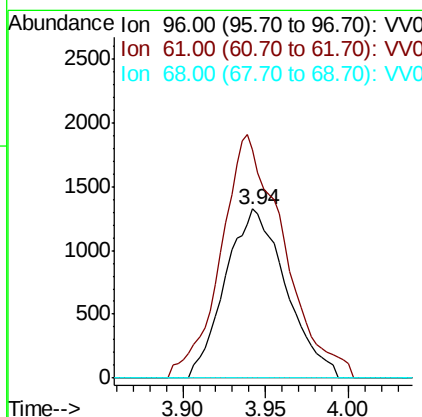
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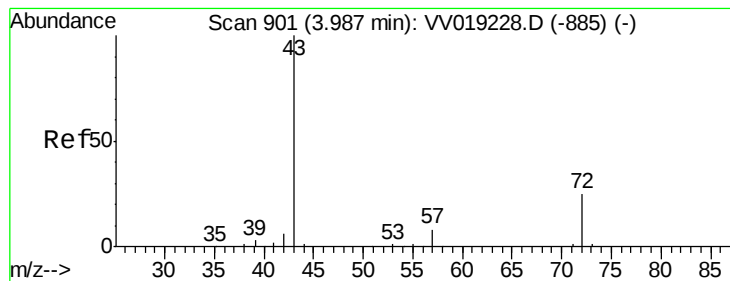
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#20
 cis-1,2-Dichloroethene
 Concen: 2.133 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.9	95.6	177.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.030 ug/L m

RT: 4.05 min Scan# 921

Delta R.T. 0.06 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 43 Resp: 3042

Ion Ratio Lower Upper

43 100

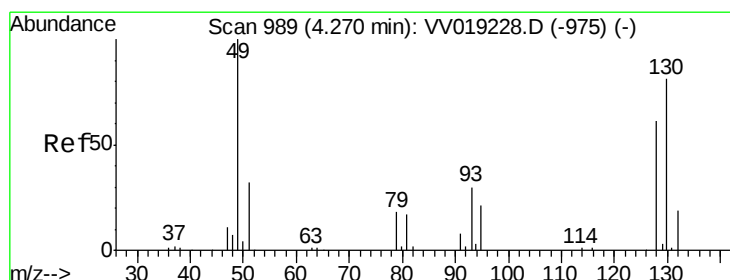
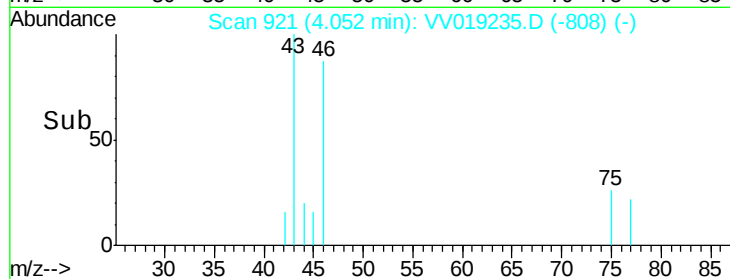
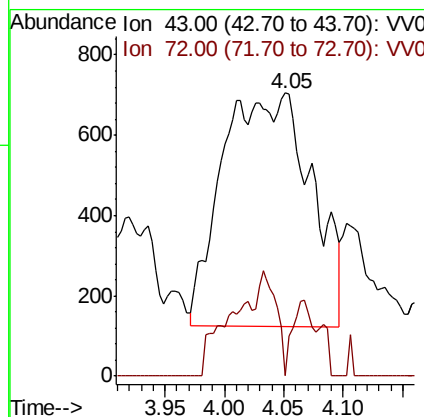
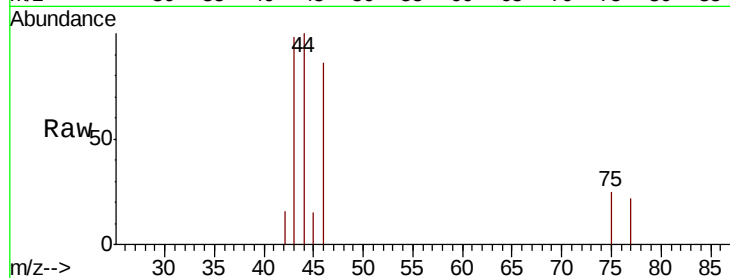
72 0.5 12.7 38.0#

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#23

Bromochloromethane

Concen: 2.239 ug/L m

RT: 4.29 min Scan# 995

Delta R.T. 0.02 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion: 128 Resp: 1950

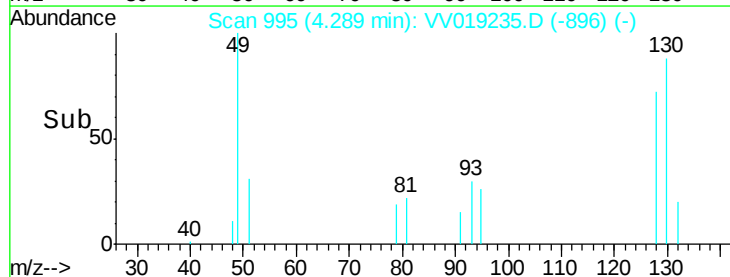
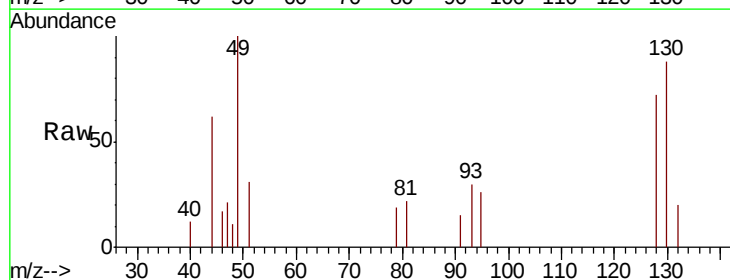
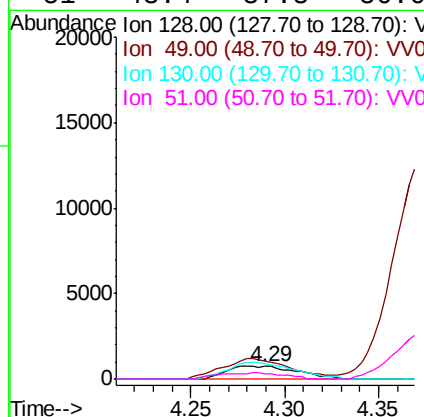
Ion Ratio Lower Upper

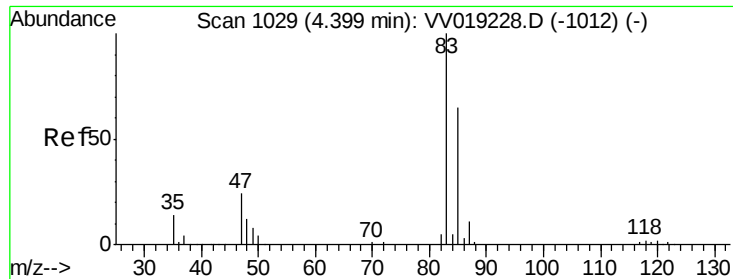
128 100

49 139.5 108.8 202.2

130 123.0 88.5 164.3

51 43.4 37.8 56.6





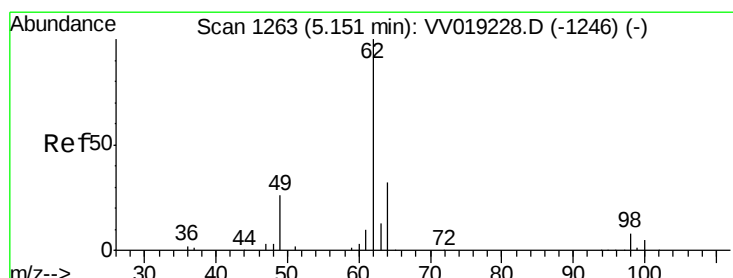
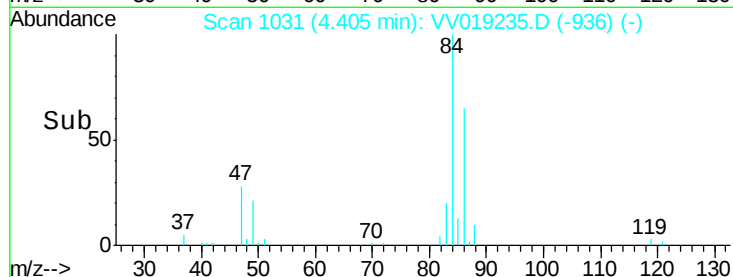
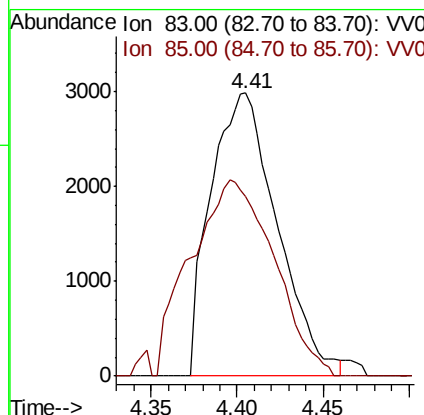
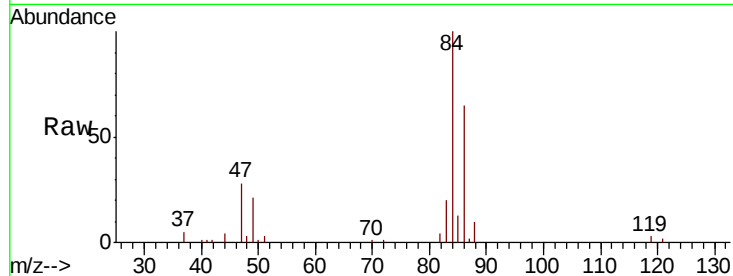
#25
Chloroform
Concen: 2.676 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 83 Resp: 8045
Ion Ratio Lower Upper
83 100
85 63.4 45.4 84.4

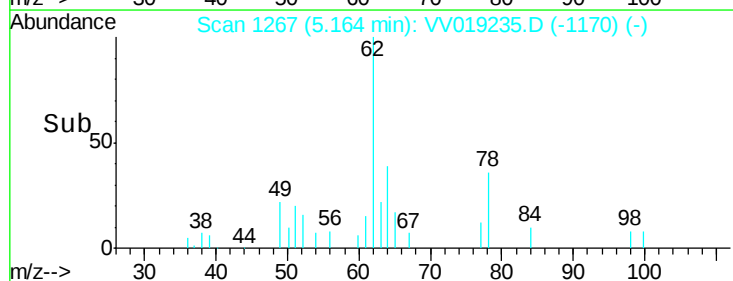
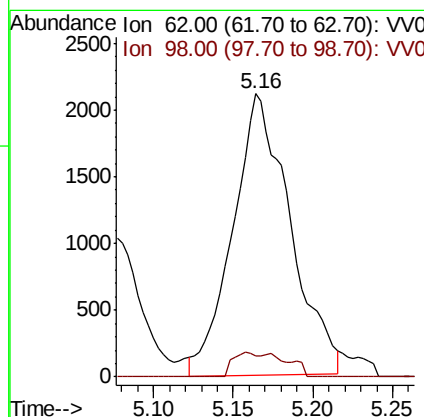
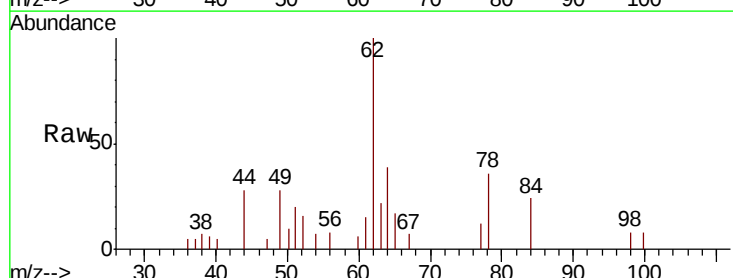
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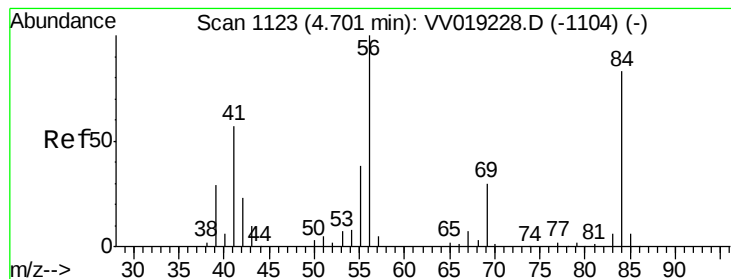
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#27
1,2-Dichloroethane
Concen: 2.072 ug/L m
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 62 Resp: 5294
Ion Ratio Lower Upper
62 100
98 7.6 6.8 10.2





#29

Cyclohexane

Concen: 2.210 ug/L m

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

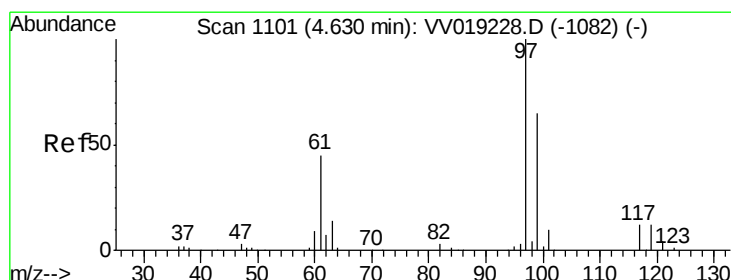
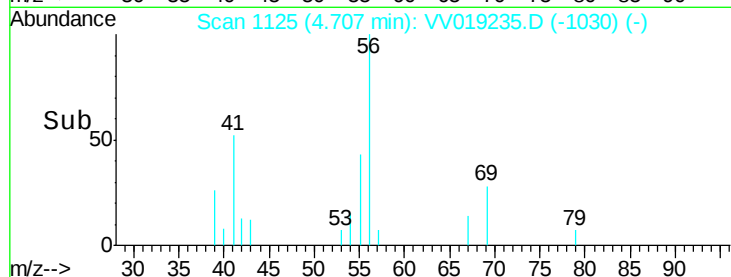
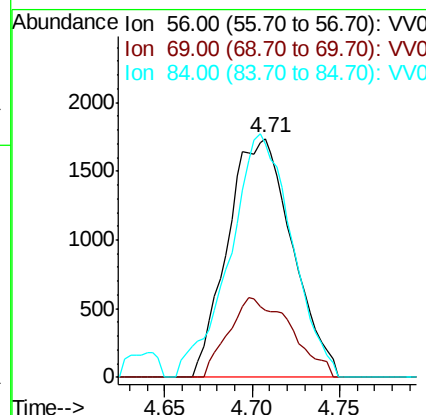
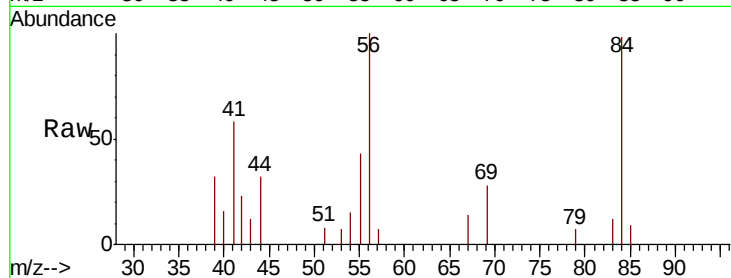
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	56	Resp:	4462
Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.6	36.8
84	98.2	70.5	105.7

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#30

1,1,1-Trichloroethane

Concen: 2.089 ug/L

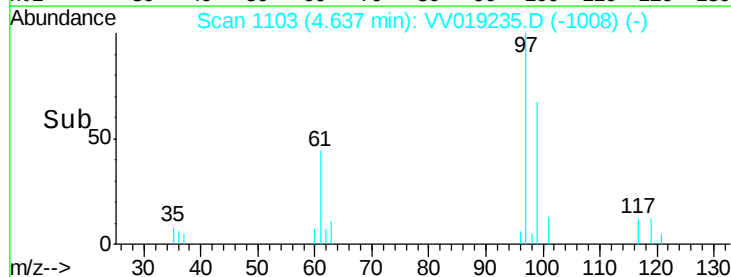
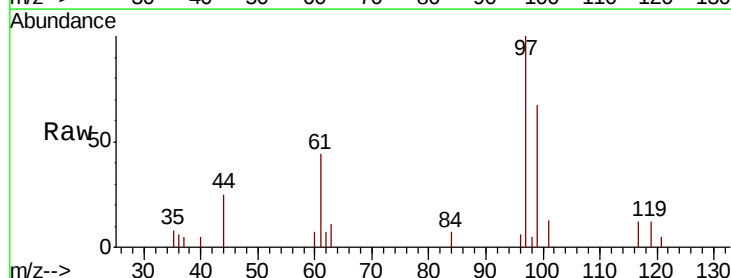
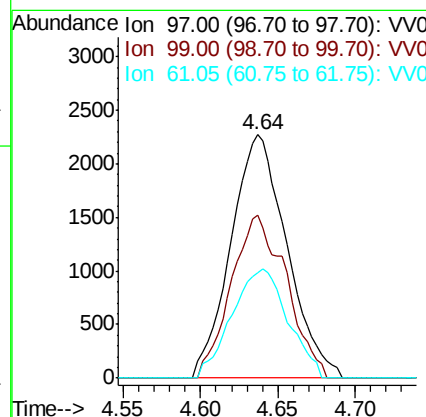
RT: 4.64 min Scan# 1103

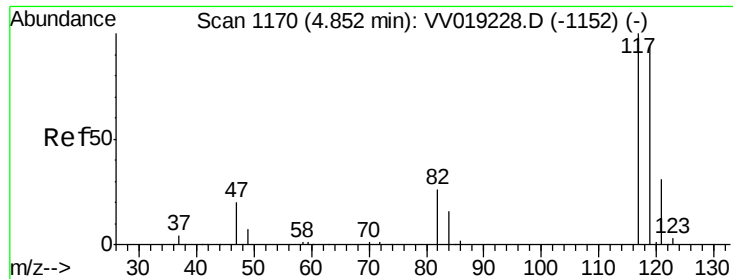
Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:	97	Resp:	5716
Ion	Ratio	Lower	Upper
97	100		
99	50.3	52.0	78.0#
61	44.8	35.3	52.9





#31

Carbon tetrachloride

Concen: 2.055 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:117 Resp: 4855

Ion Ratio Lower Upper

117 100

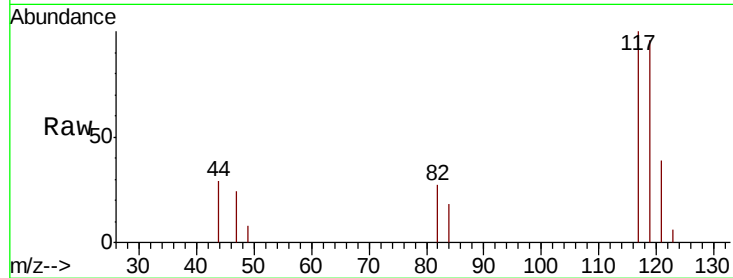
119 100.4 77.8 116.6

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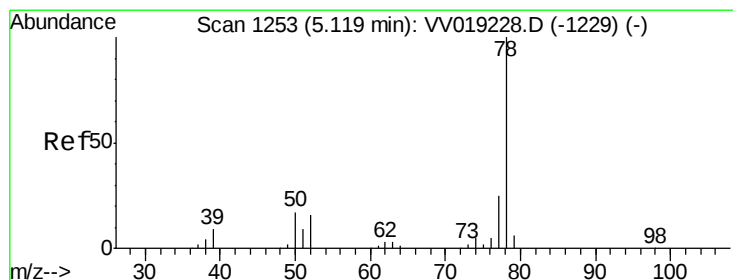
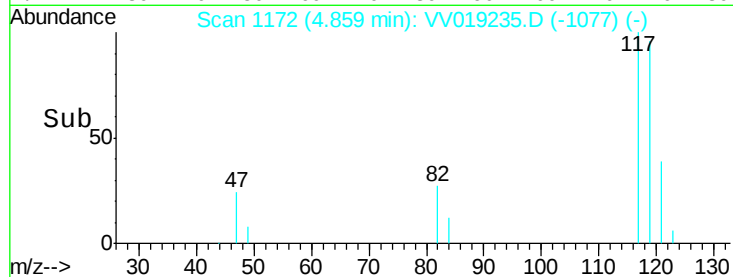
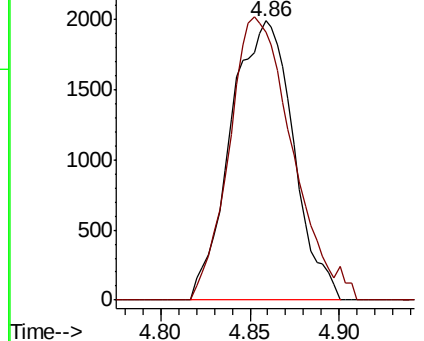
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.245 ug/L

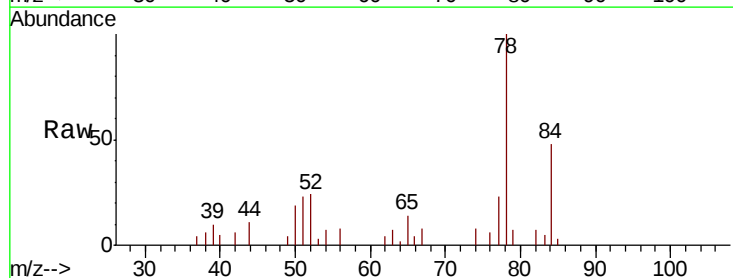
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

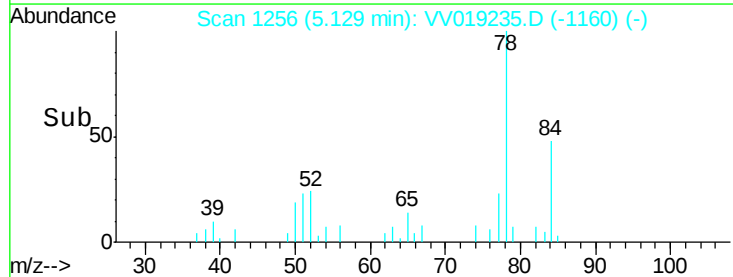
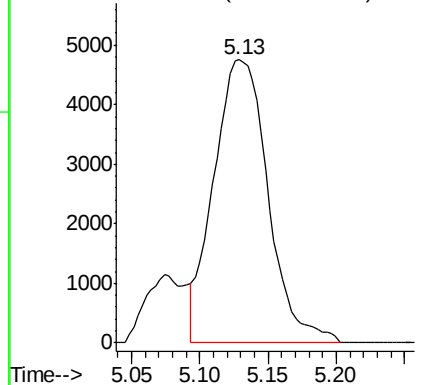
Lab File: VV019235.D

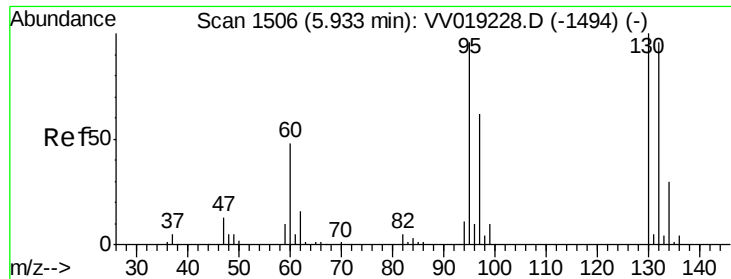
Acq: 03 Nov 2020 14:48

Tgt Ion: 78 Resp: 13159



Abundance Ion 78.00 (77.70 to 78.70): VV0





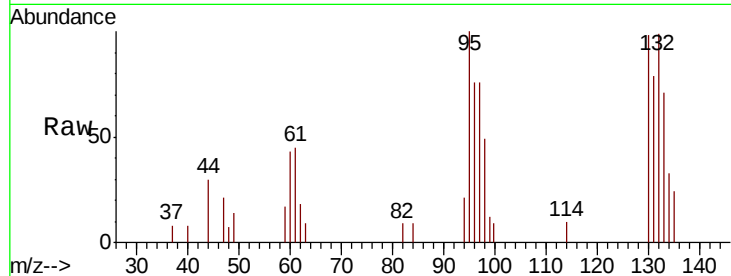
#34
 Trichloroethene
 Concen: 2.151 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

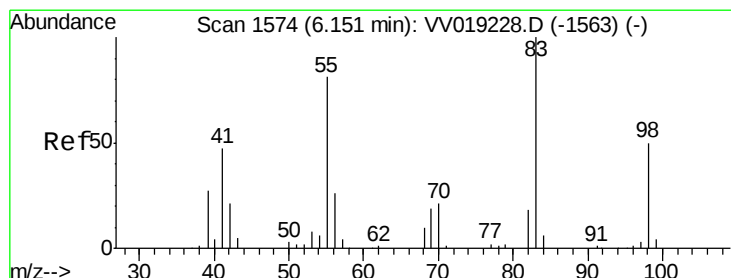
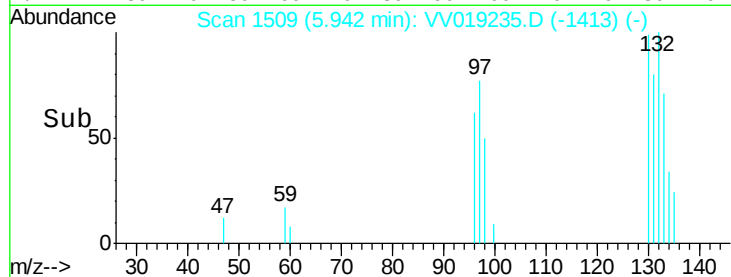
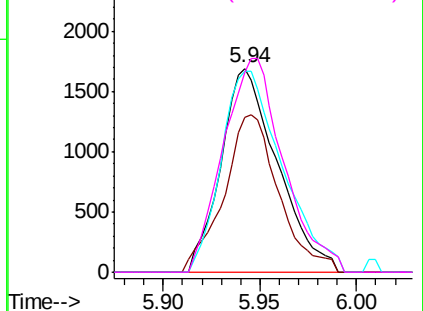
Tot Ion:	95	Resp:	3427
Ion	Ratio	Lower	Upper
95	100		
97	75.9	45.4	84.4
132	98.8	68.5	127.3
130	98.0	72.0	133.6

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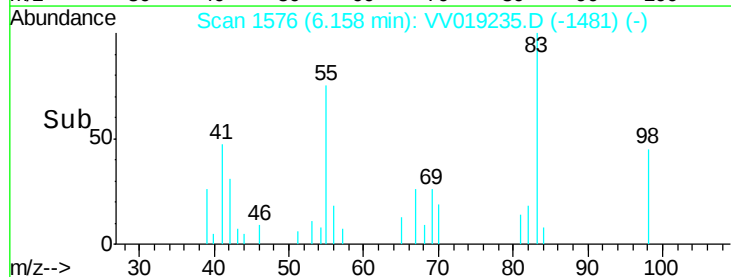
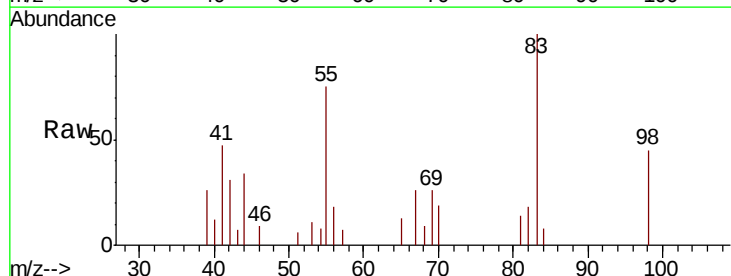
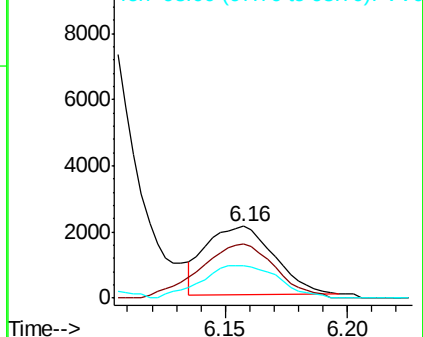
Abundance Ion 95.00 (94.70 to 95.70): VV019235.D (-1413) (-)
 Ion 97.00 (96.70 to 97.70): VV019235.D (-1413) (-)
 Ion 132.00 (131.70 to 132.70): VV019235.D (-1413) (-)
 Ion 130.00 (129.70 to 130.70): VV019235.D (-1413) (-)

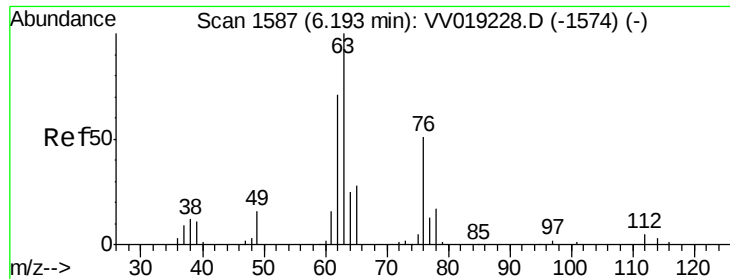


#35
 Methylcyclohexane
 Concen: 2.094 ug/L
 RT: 6.16 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion:	83	Resp:	4037
Ion	Ratio	Lower	Upper
83	100		
55	87.0	62.8	94.2
98	53.9	38.6	58.0

Abundance Ion 83.00 (82.70 to 83.70): VV019235.D (-1481) (-)
 Ion 55.00 (54.70 to 55.70): VV019235.D (-1481) (-)
 Ion 98.00 (97.70 to 98.70): VV019235.D (-1481) (-)





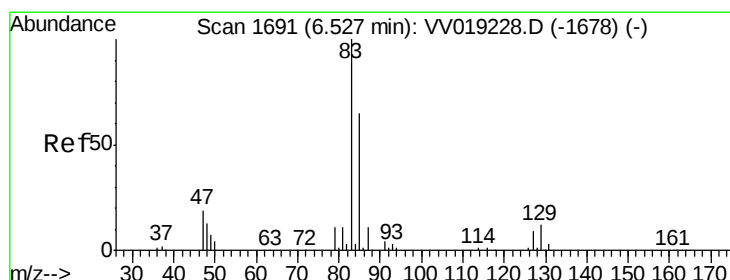
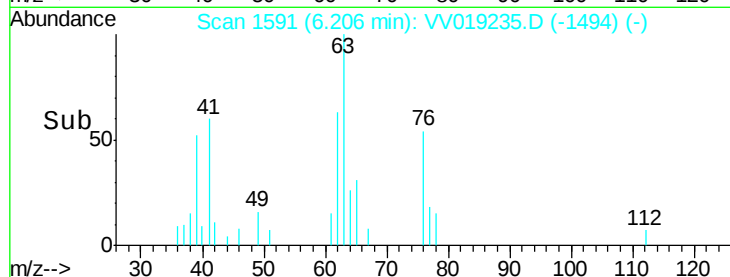
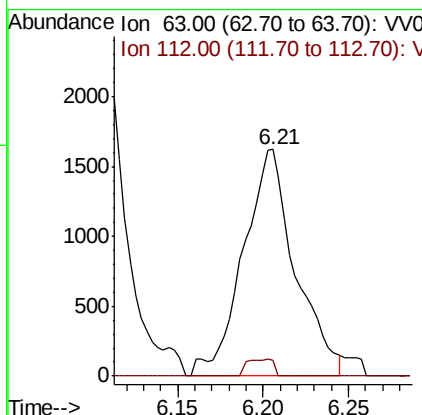
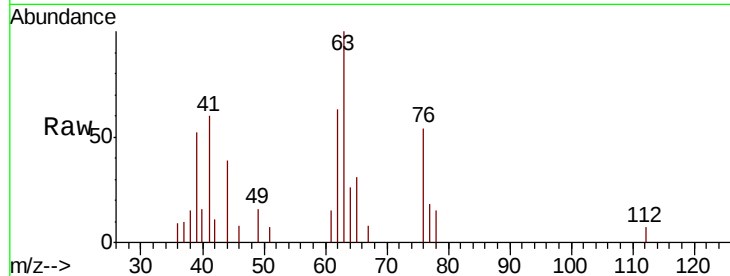
#37
 1,2-Dichloropropane
 Concen: 2.192 ug/L m
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion: 63 Resp: 3429
 Ion Ratio Lower Upper
 63 100
 112 2.5 4.2 6.2#

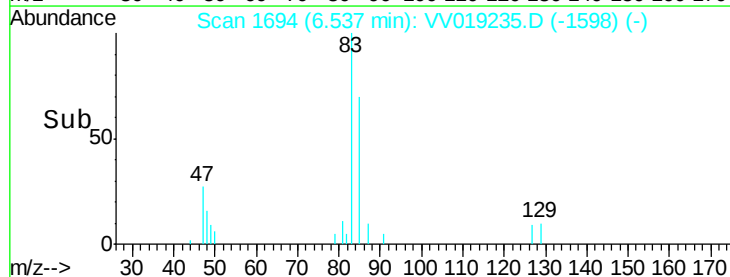
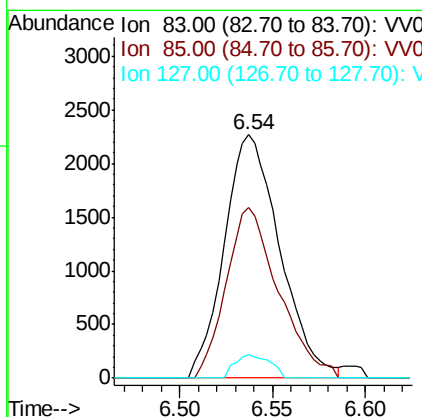
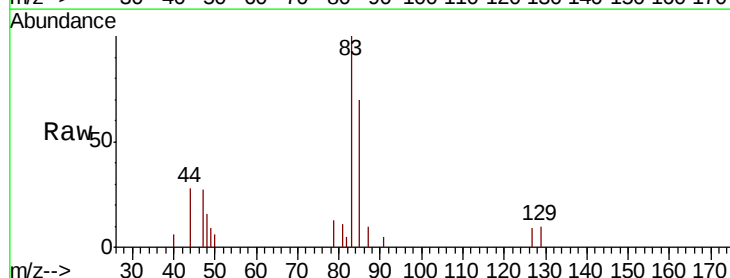
Manual Integrations
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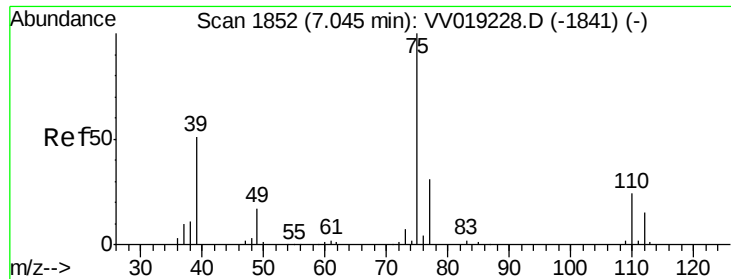
MMDadoda
 11/5/2020 7:00:29 PM



#38
 Bromodichloromethane
 Concen: 2.101 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion: 83 Resp: 4730
 Ion Ratio Lower Upper
 83 100
 85 70.1 44.0 81.8
 127 9.4 7.3 10.9





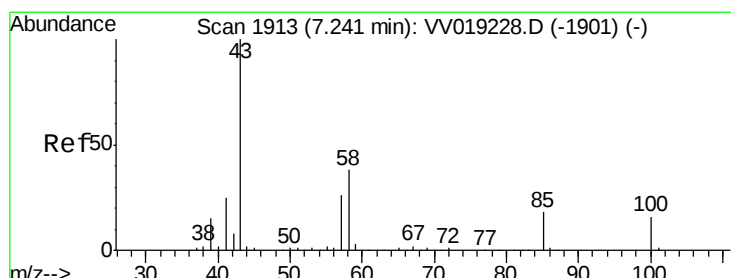
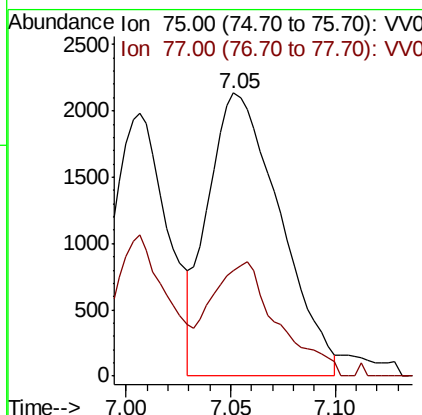
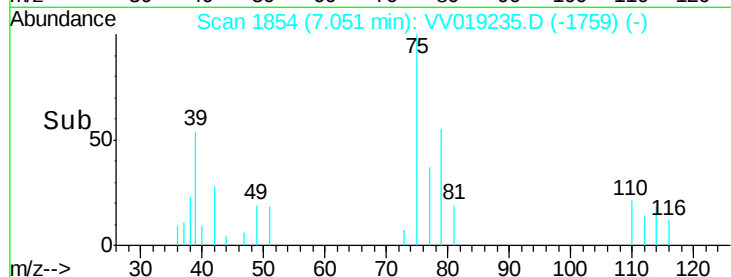
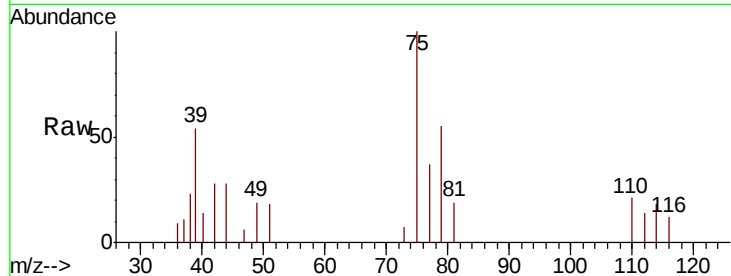
#39
 cis-1,3-Dichloropropene
 Concen: 2.050 ug/L m
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion: 75 Resp: 5132
 Ion Ratio Lower Upper
 75 100
 77 37.3 22.2 41.2

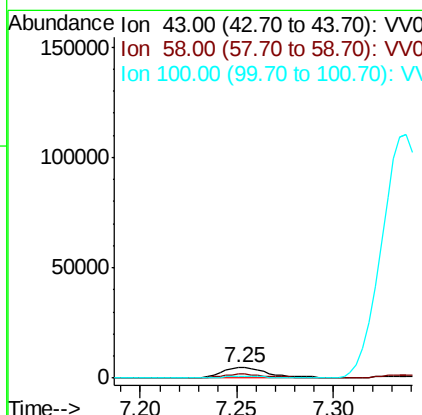
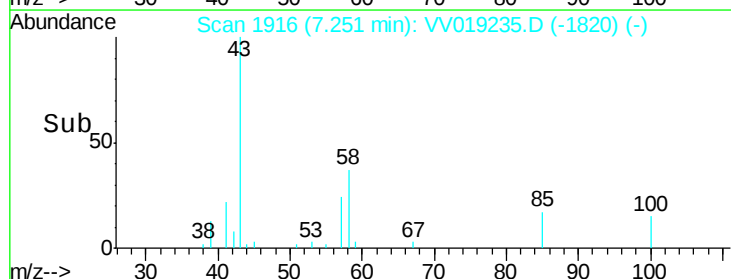
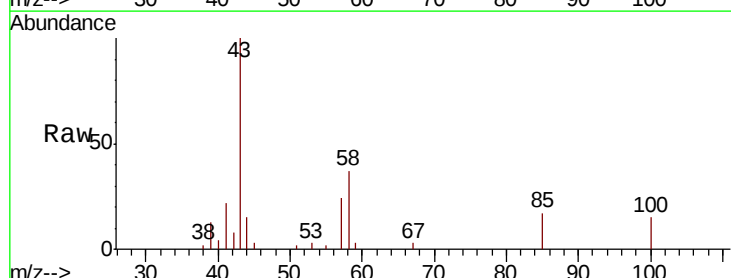
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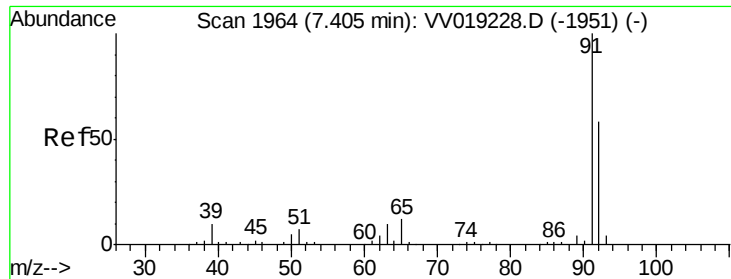
MMDadoda
 11/5/2020 7:00:29 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.995 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion: 43 Resp: 8397
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.5 45.7
 100 15.1 12.7 19.1





#42

Toluene

Concen: 2.372 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 91 Resp: 15030

Ion Ratio Lower Upper

91 100

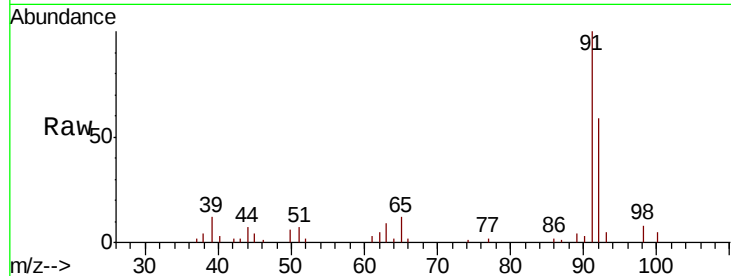
92 58.5 40.6 75.4

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Abundance Ion 91.00 (90.70 to 91.70): VV019228.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV019235.D (-1953) (-)

7.41

8000

6000

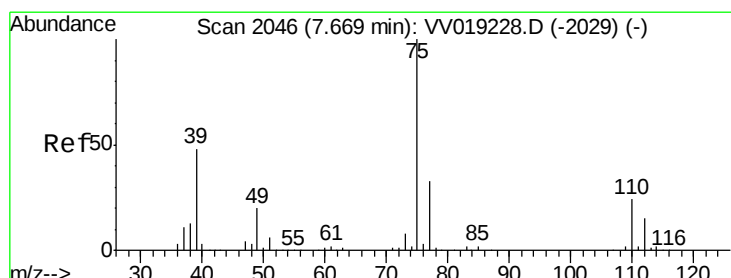
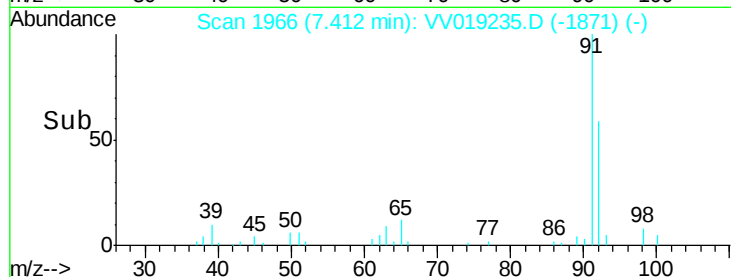
4000

2000

0

7.35 7.40 7.45

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.094 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019235.D

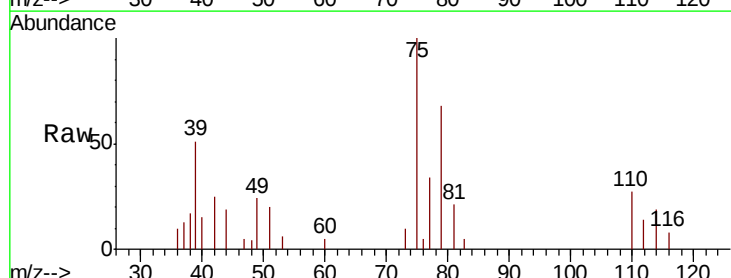
Acq: 03 Nov 2020 14:48

Tgt Ion: 75 Resp: 5371

Ion Ratio Lower Upper

75 100

77 33.9 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019228.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019235.D (-1953) (-)

7.68

3000

2500

2000

1500

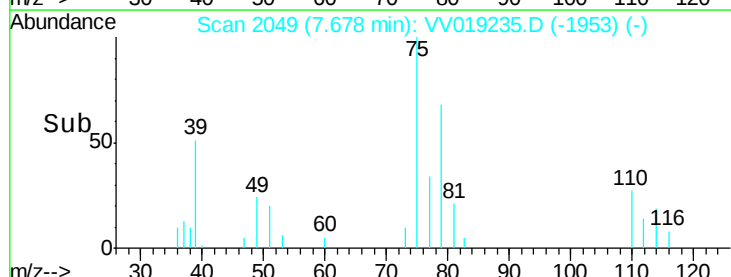
1000

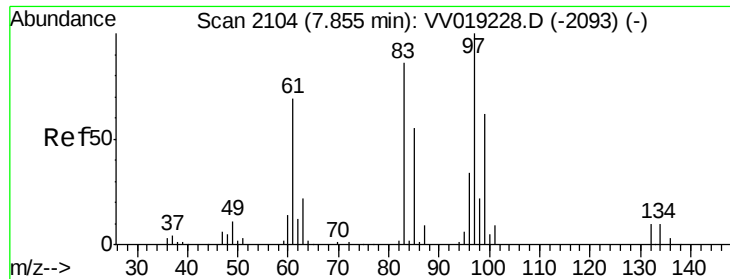
500

0

7.65 7.70 7.75

Time-->





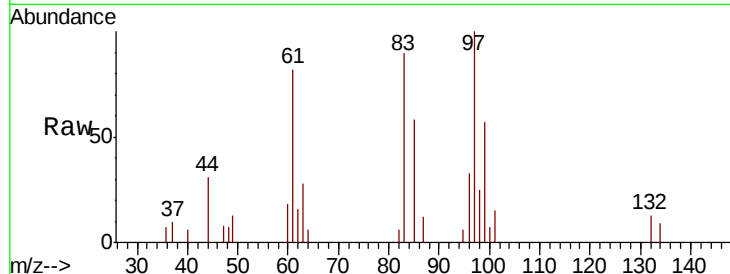
#45
1,1,2-Trichloroethane
Concen: 2.104 ug/L
RT: 7.86 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:	97	Resp:	3254
Ion	Ratio	Lower	Upper
97	100		
99	57.1	45.1	83.9
83	90.4	57.6	107.0
85	58.2	37.8	70.2

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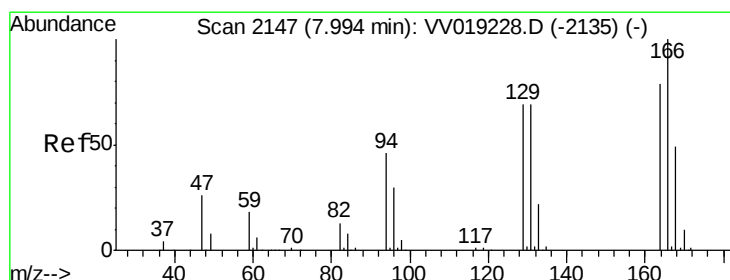
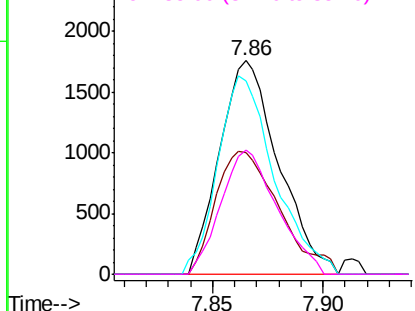
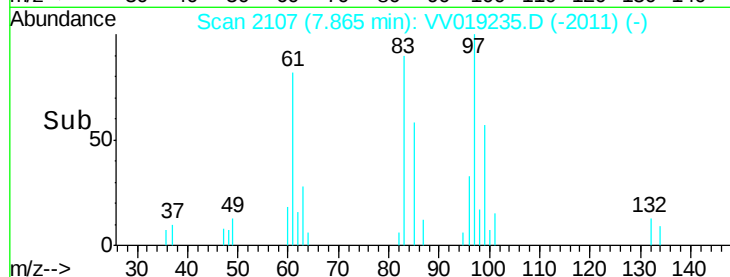


Abundance Ion 97.00 (96.70 to 97.70): VV019235.D (-2011) (-)

Ion 99.00 (98.70 to 99.70): VV019235.D (-2011) (-)

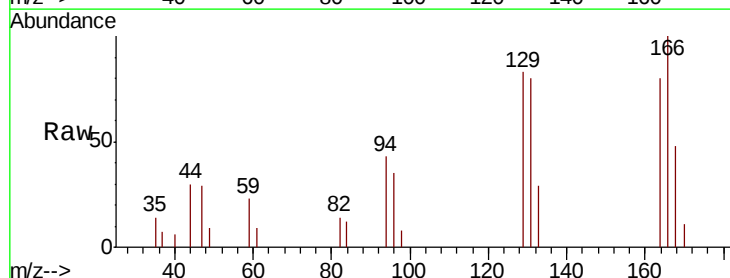
Ion 83.00 (82.70 to 83.70): VV019235.D (-2011) (-)

Ion 85.00 (84.70 to 85.70): VV019235.D (-2011) (-)



#46
Tetrachloroethene
Concen: 2.073 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion:	164	Resp:	2694
Ion	Ratio	Lower	Upper
164	100		
129	104.6	62.6	116.3
131	99.7	59.0	109.6
166	125.4	88.0	163.4

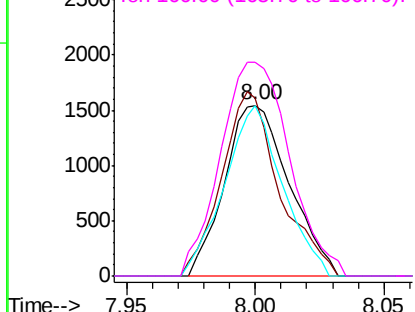
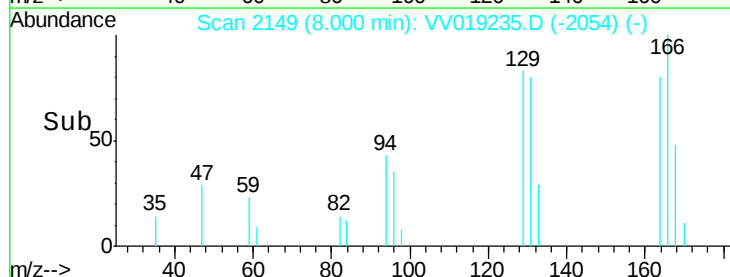


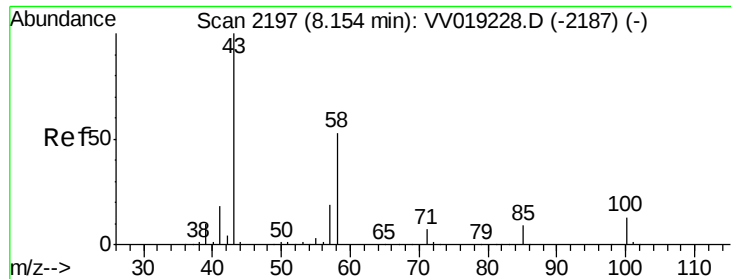
Abundance Ion 164.00 (163.70 to 164.70): VV019235.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV019235.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV019235.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV019235.D (-2054) (-)





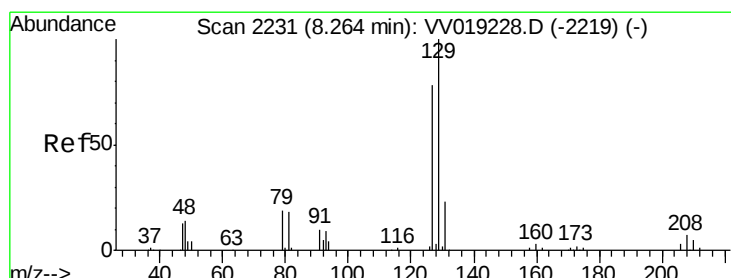
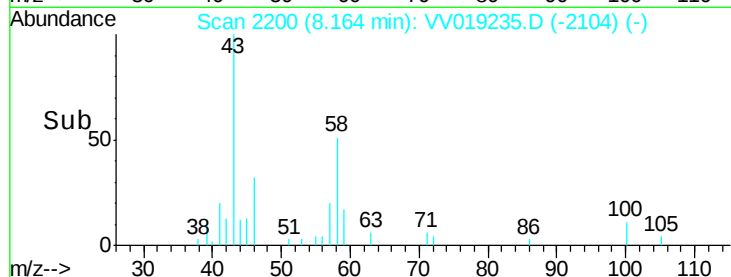
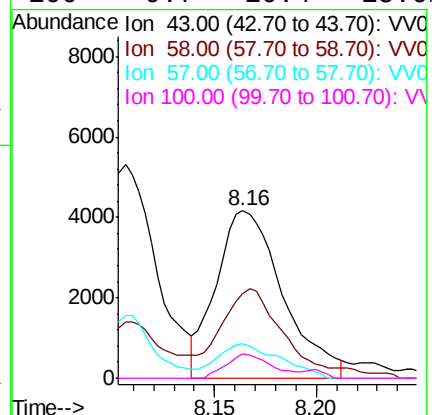
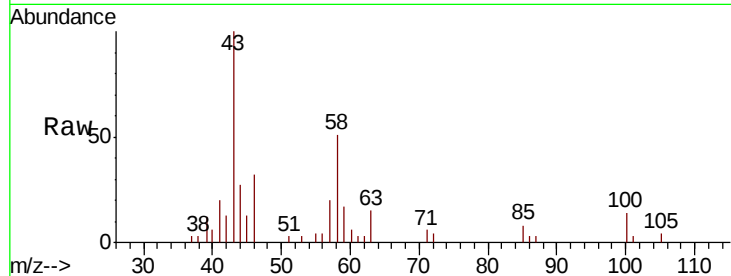
#48
2-Hexanone
Concen: 5.994 ug/L m
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 9524
Ion Ratio Lower Upper
43 100
58 40.7 42.6 63.8#
57 19.6 15.8 23.8
100 9.7 10.4 15.6#

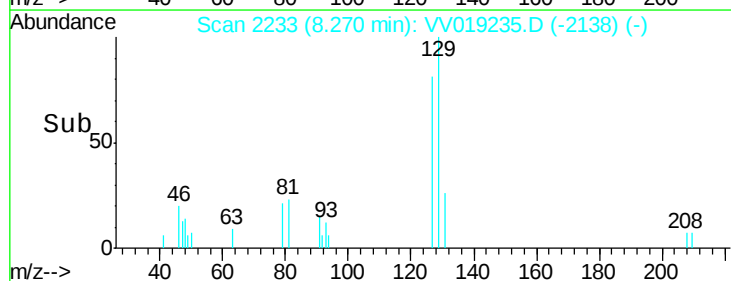
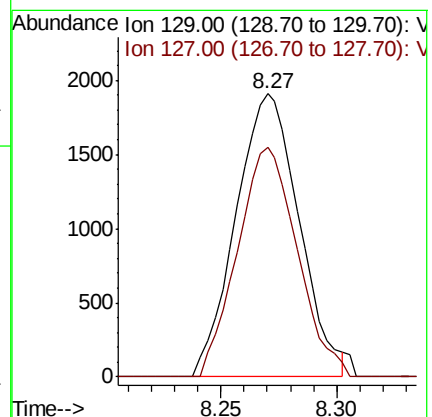
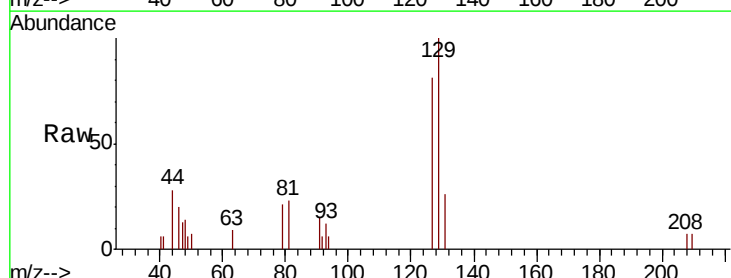
Manual Integrations
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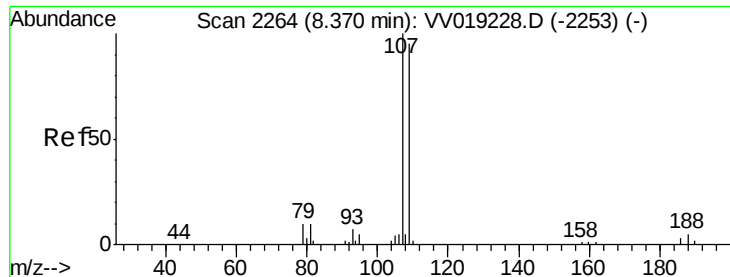
MMDadoda
11/5/2020 7:00:29 PM



#49
Dibromochloromethane
Concen: 1.952 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 129 Resp: 3600
Ion Ratio Lower Upper
129 100
127 81.0 54.4 101.0





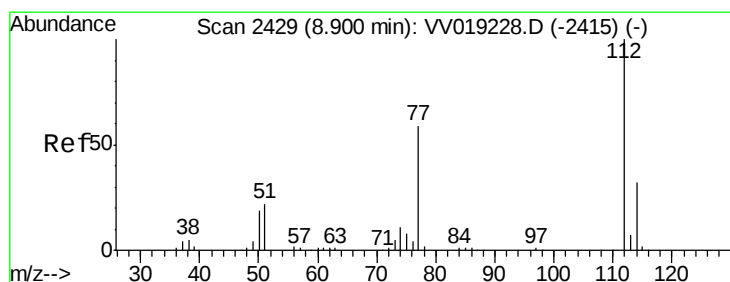
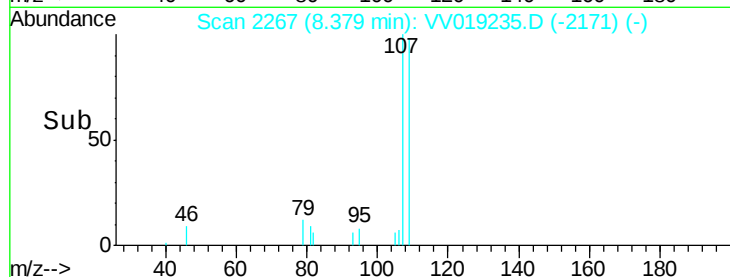
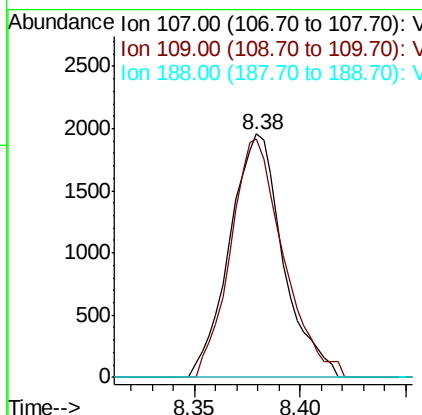
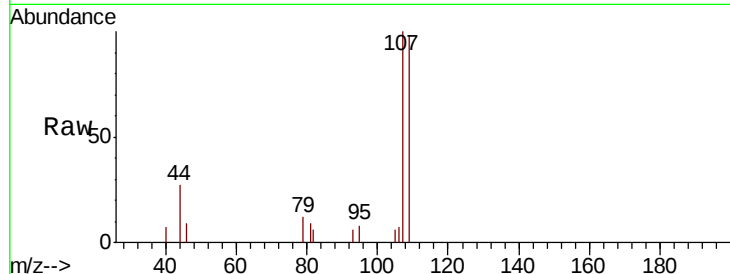
#50
1,2-Dibromoethane
Concen: 2.149 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.9	64.8	120.4
188	0.0	3.8	5.8#

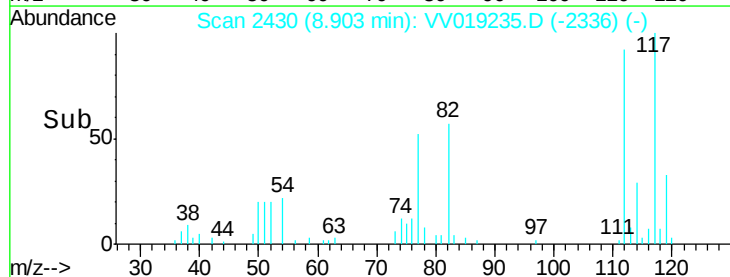
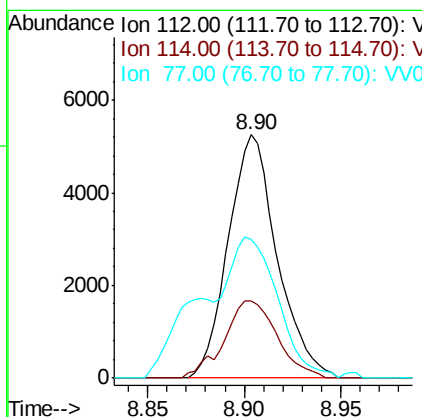
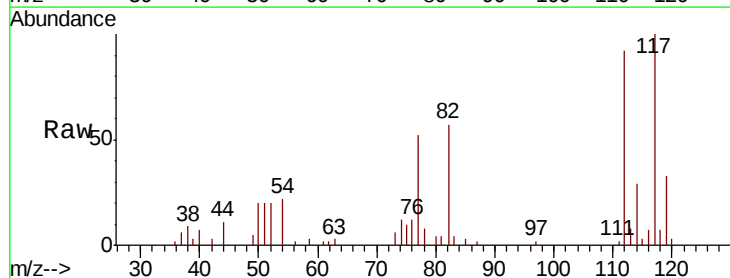
Manual Integrations
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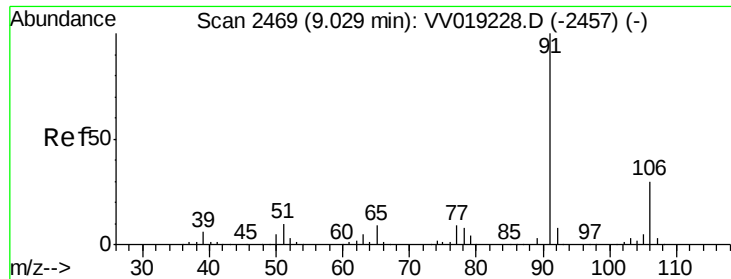
MMDadoda
11/5/2020 7:00:29 PM



#51
Chlorobenzene
Concen: 2.183 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.7	42.1
77	57.0	47.3	70.9





#52

Ethylbenzene

Concen: 2.005 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tot Ion: 91 Resp: 14013

Ion Ratio Lower Upper

91 100

106 29.0 21.6 40.0

Instrument :

MSVOA_V

ClientSampleId :

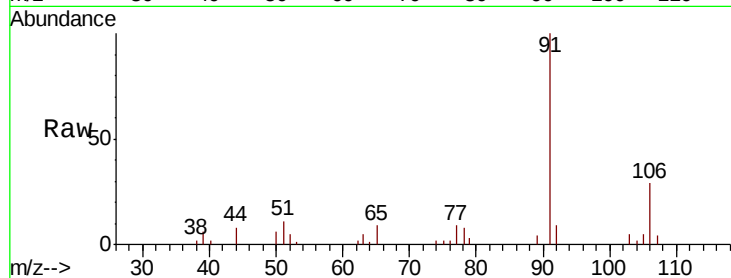
MDL-ME-SOIL-04

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Abundance Ion 91.00 (90.70 to 91.70): VV019235.D (-2471) (-)

Ion 106.00 (105.70 to 106.70): VV019235.D (-2471) (-)

9.04

8000

6000

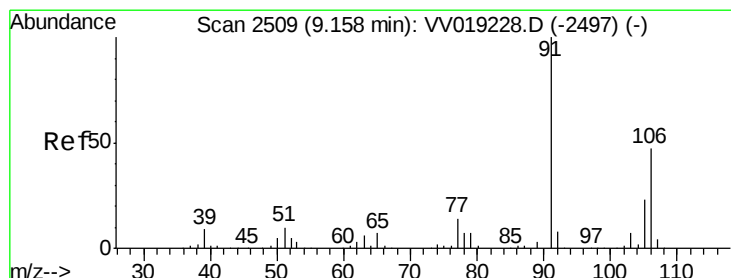
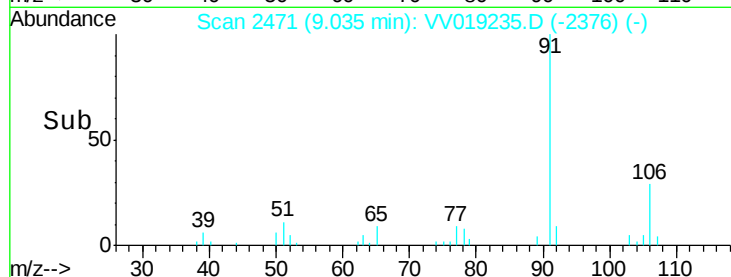
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 1.974 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019235.D

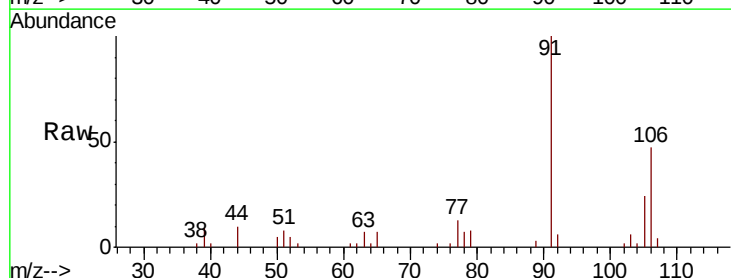
Acq: 03 Nov 2020 14:48

Tgt Ion: 106 Resp: 5165

Ion Ratio Lower Upper

106 100

91 211.4 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019235.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VV019235.D (-2510) (-)

9.16

6000

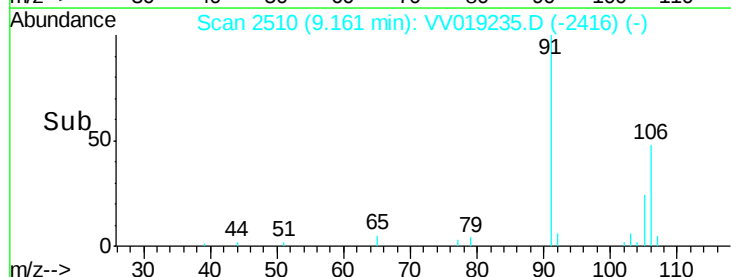
4000

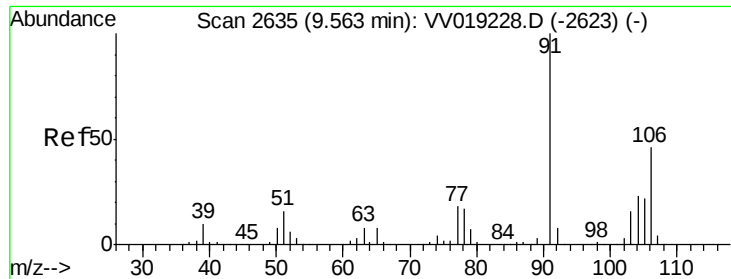
2000

0

9.15 9.20

Time-->





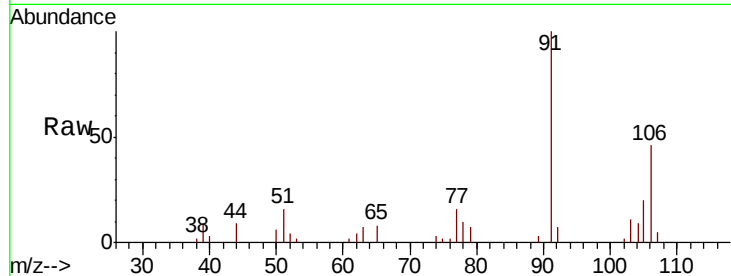
#54
o-Xylene
Concen: 1.945 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

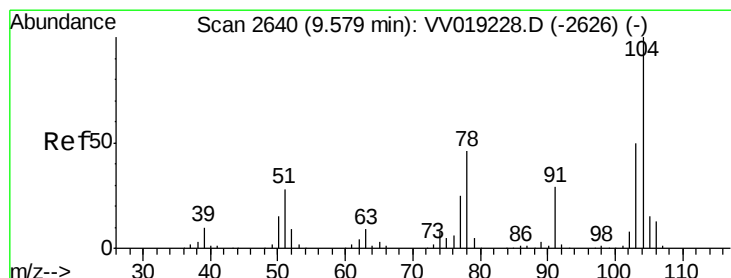
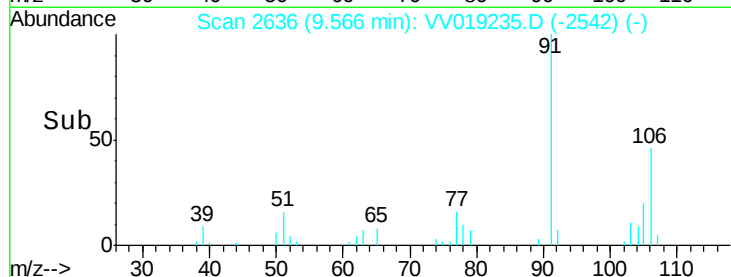
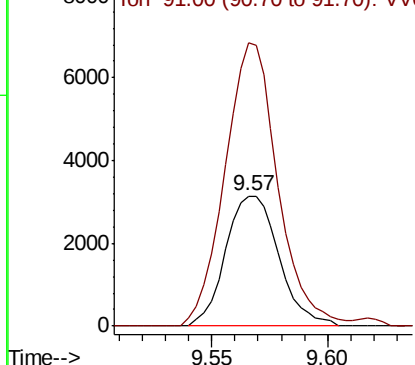
Tot Ion:106 Resp: 5017
Ion Ratio Lower Upper
106 100
91 217.8 151.6 281.6

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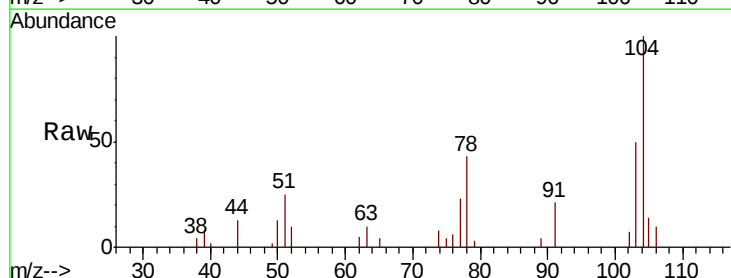


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

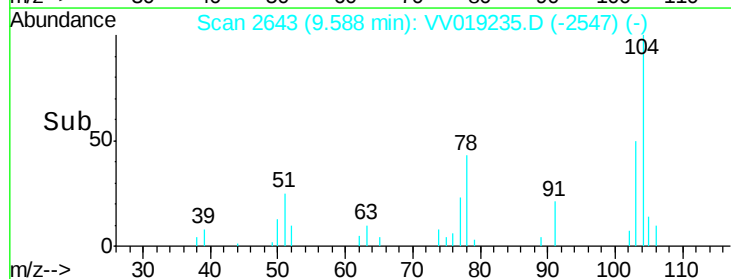
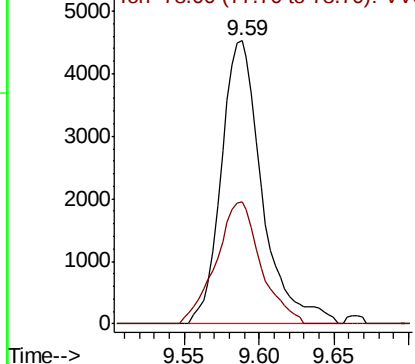


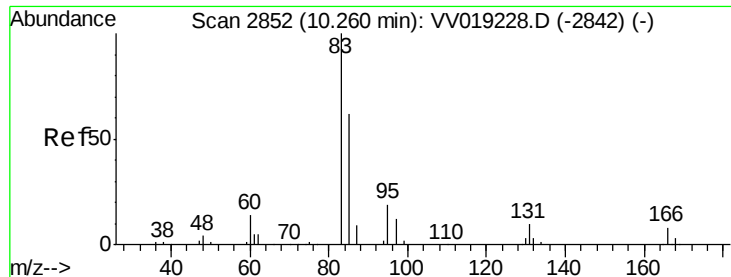
#55
Styrene
Concen: 1.875 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion:104 Resp: 8612
Ion Ratio Lower Upper
104 100
78 42.9 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





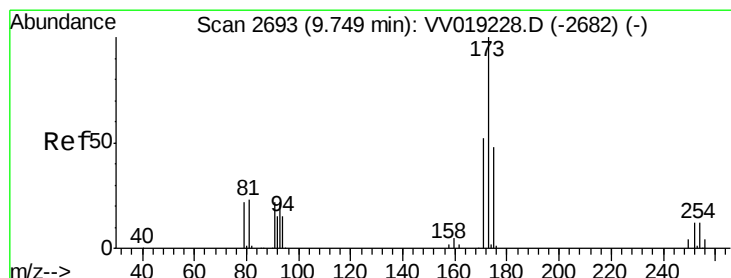
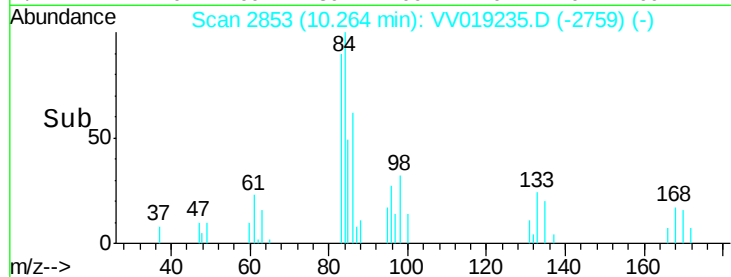
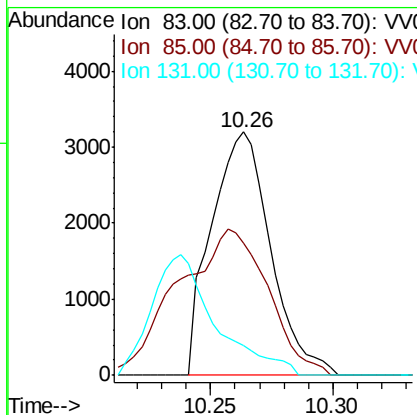
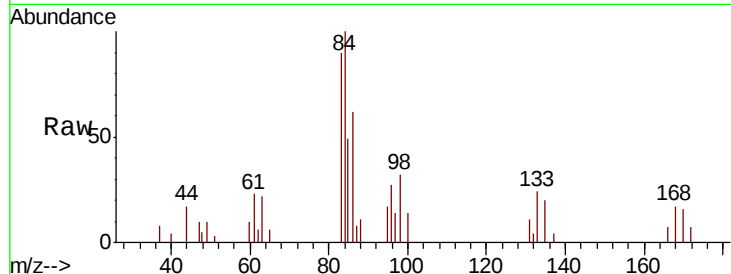
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.306 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	83	Resp	5394
Ion Ratio	100	Lower	Upper
83	100		
85	54.3	45.0	83.6
131	12.3	8.9	13.3

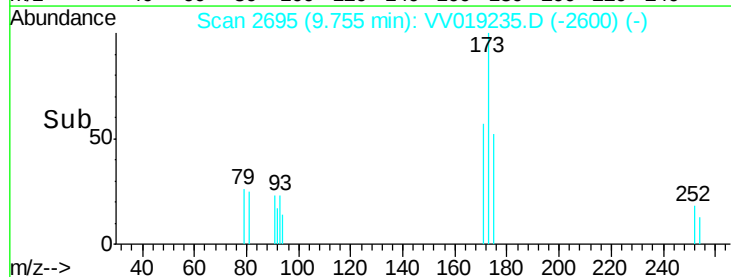
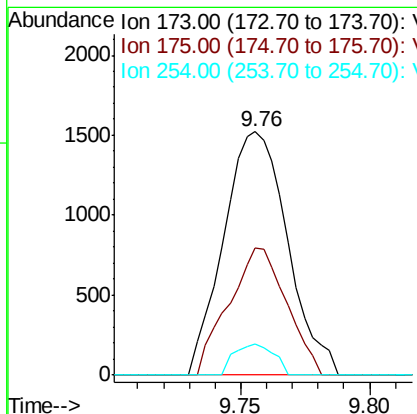
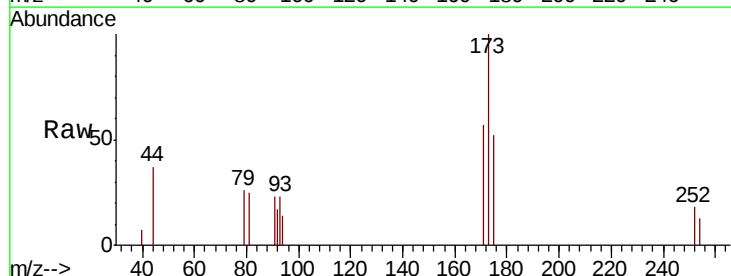
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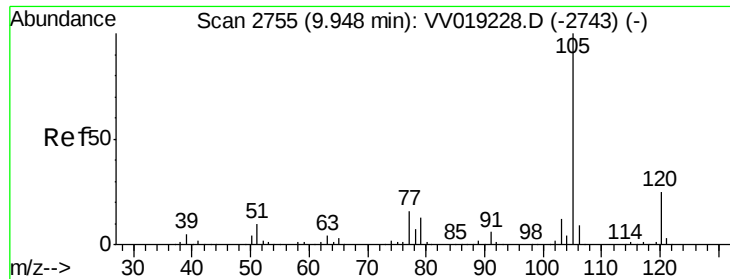
MMDadoda
 11/5/2020 7:00:29 PM



#59
 Bromoform
 Concen: 1.937 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion	173	Resp	2632
Ion Ratio	100	Lower	Upper
173	100		
175	47.1	38.4	57.6
254	7.9	9.0	13.6





#60

Isopropylbenzene

Concen: 1.950 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

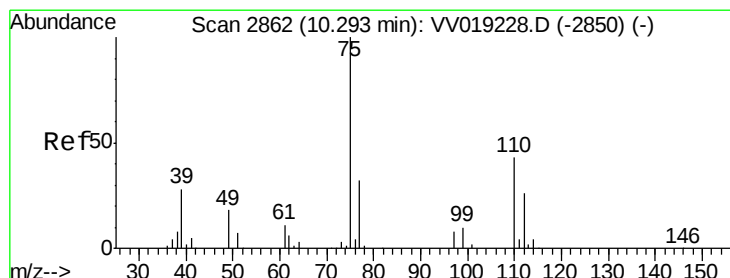
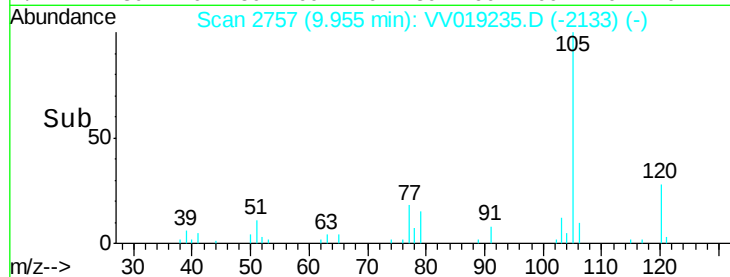
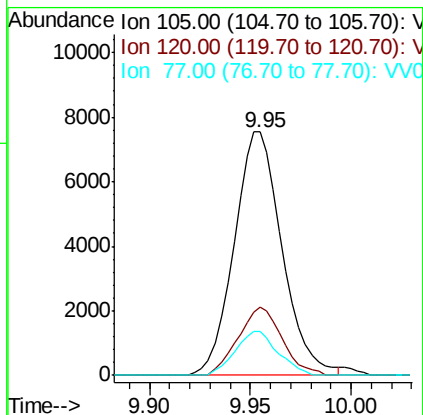
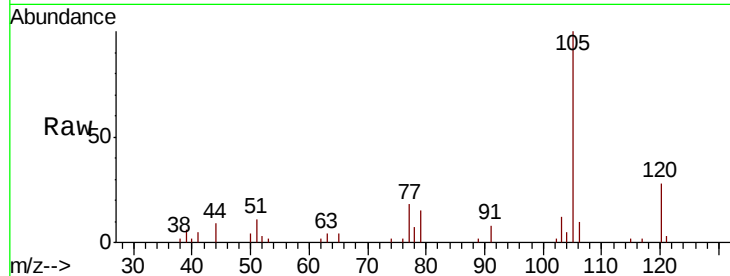
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	105	Resp:	12518
Ion Ratio	Lower	Upper	
105	100		
120	25.6	21.0	31.4
77	16.2	13.0	19.6

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#61

1,2,3-Trichloropropane

Concen: 2.278 ug/L

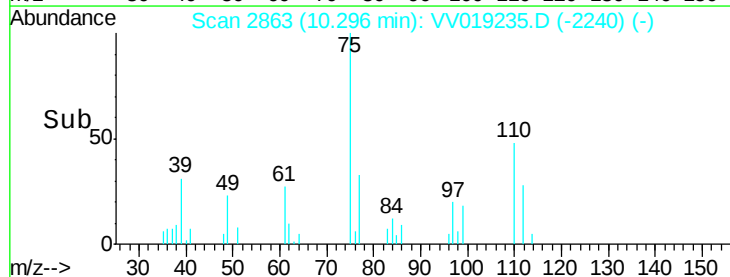
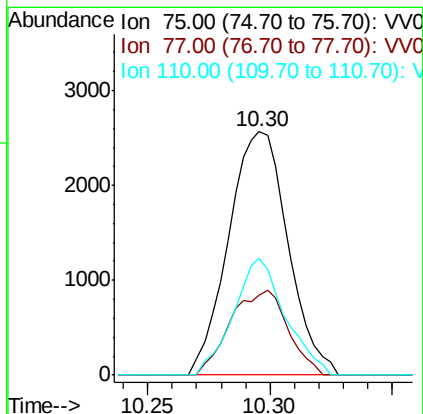
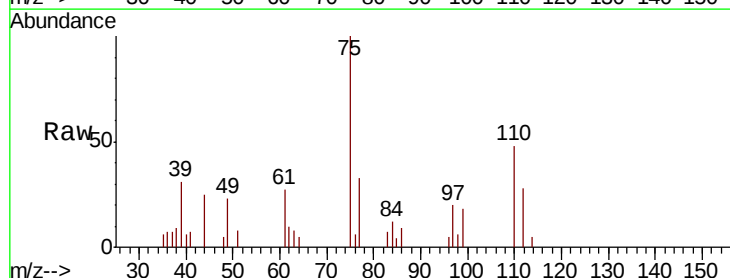
RT: 10.30 min Scan# 2863

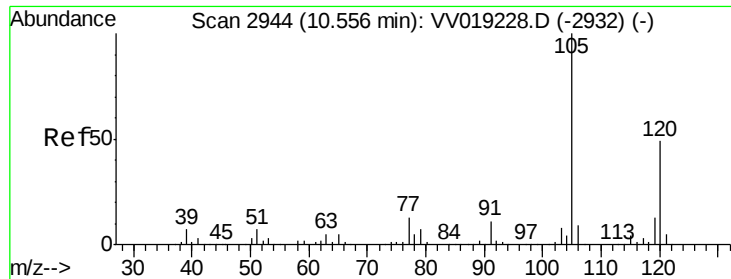
Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:	75	Resp:	4334
Ion Ratio	Lower	Upper	
75	100		
77	33.7	24.8	37.2
110	41.7	33.4	50.2





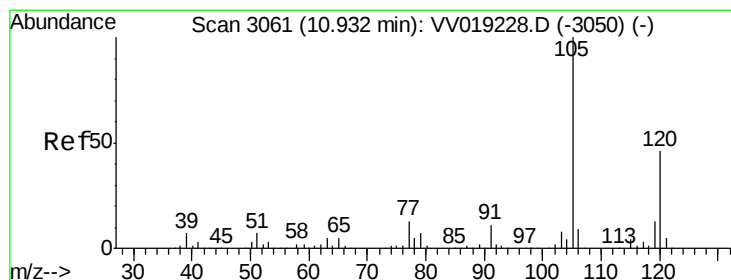
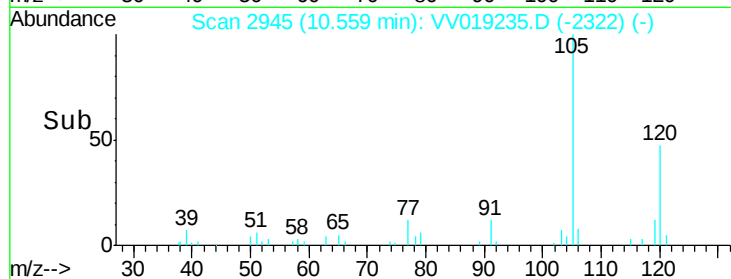
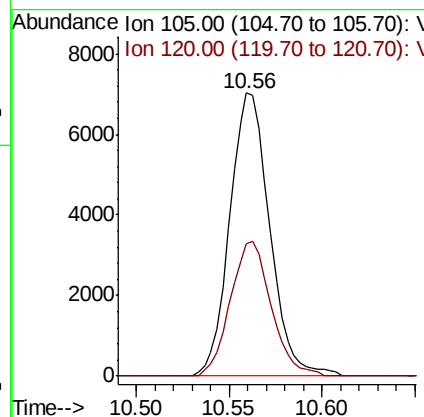
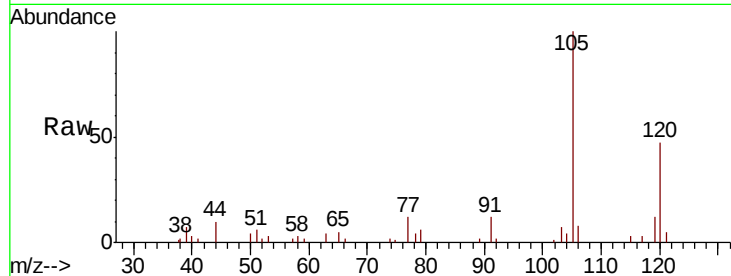
#62
 1,3,5-Trimethylbenzene
 Concen: 1.966 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:105 Resp: 10512
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.3 57.5

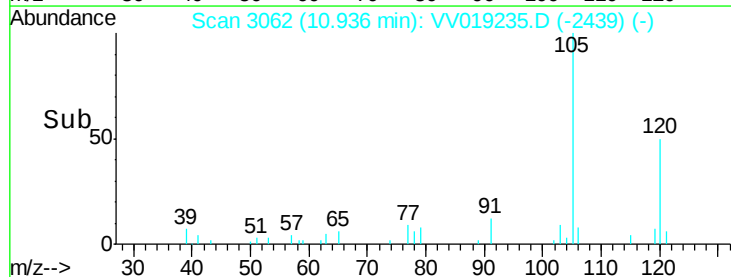
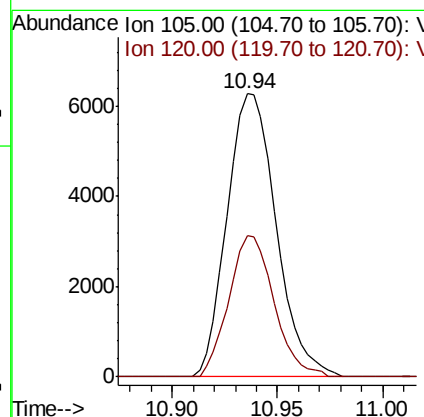
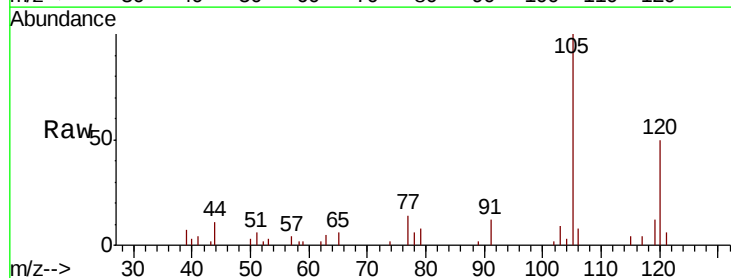
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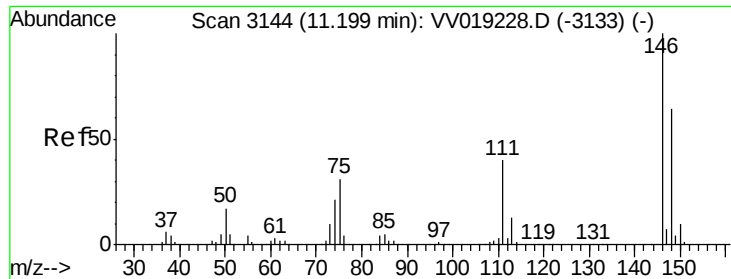
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.944 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion:105 Resp: 10171
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.020 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

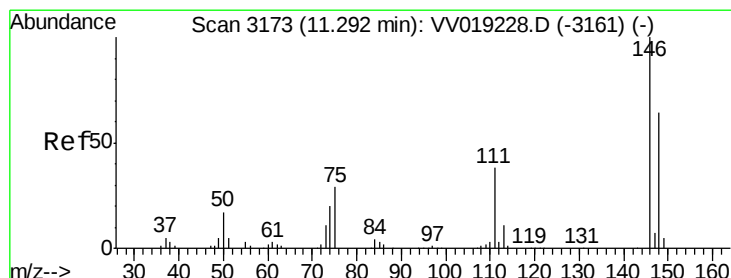
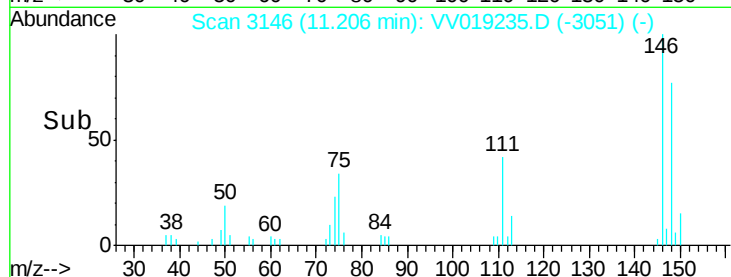
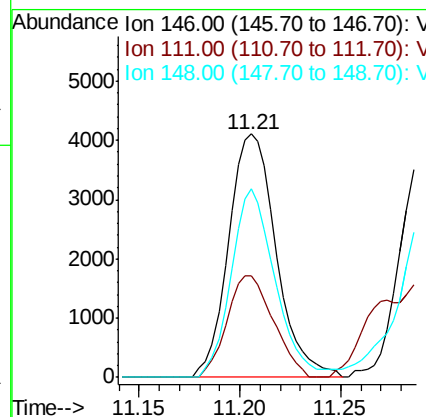
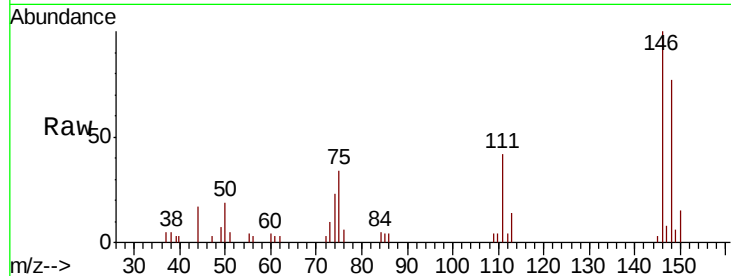
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:146	Resp:	6781
Ion Ratio	Lower	Upper
146	100	
111	41.5	27.3 50.7
148	77.3	45.2 84.0

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#65

1,4-Dichlorobenzene

Concen: 2.459 ug/L

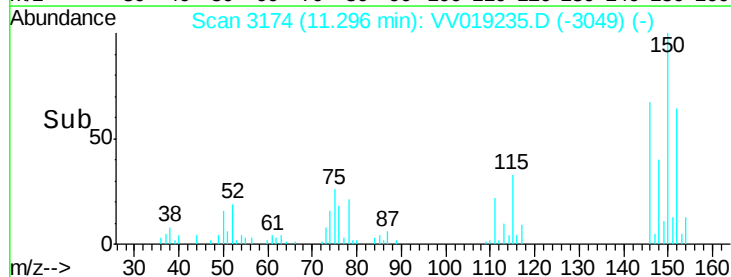
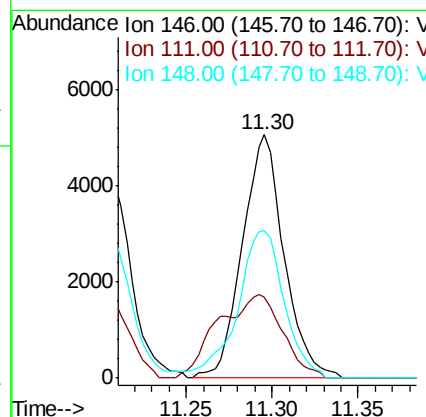
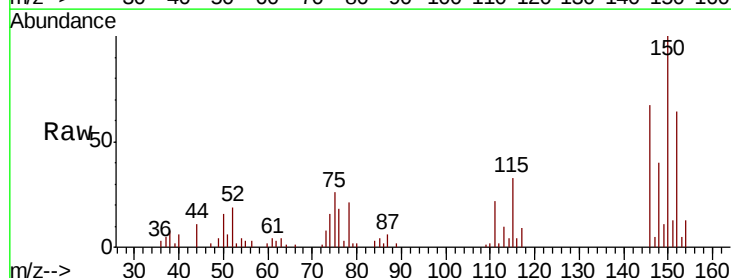
RT: 11.30 min Scan# 3174

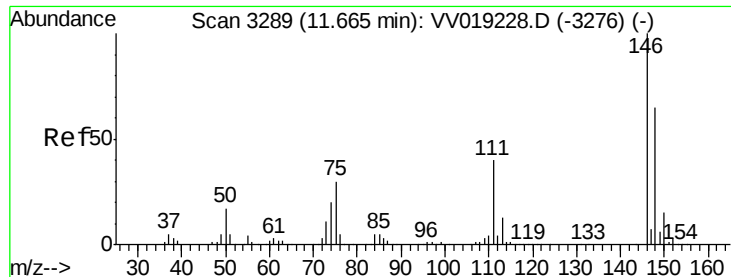
Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:146	Resp:	8542
Ion Ratio	Lower	Upper
146	100	
111	33.4	25.9 48.1
148	60.8	44.9 83.5





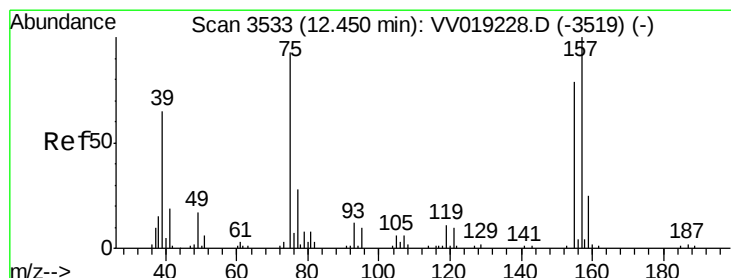
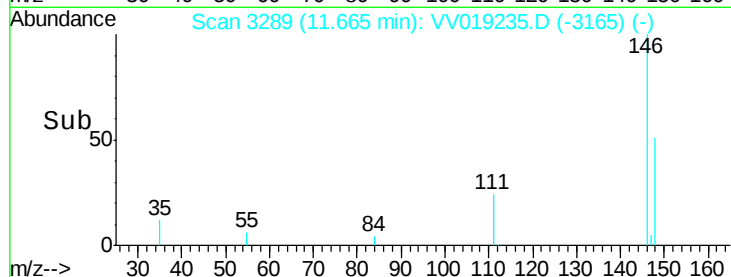
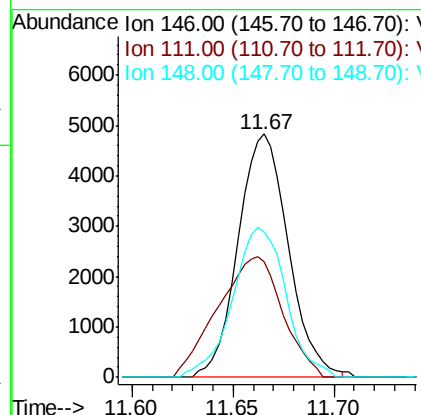
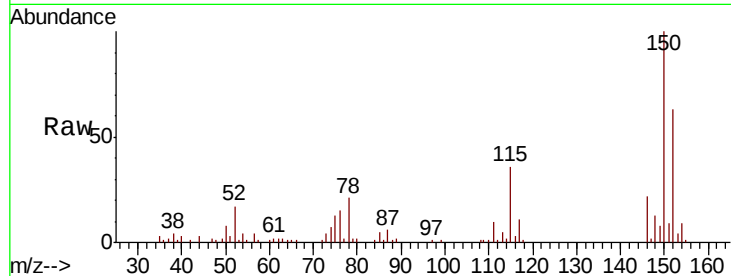
#67
 1,2-Dichlorobenzene
 Concen: 2.452 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	32.6	48.8
148	59.8	50.1	75.1

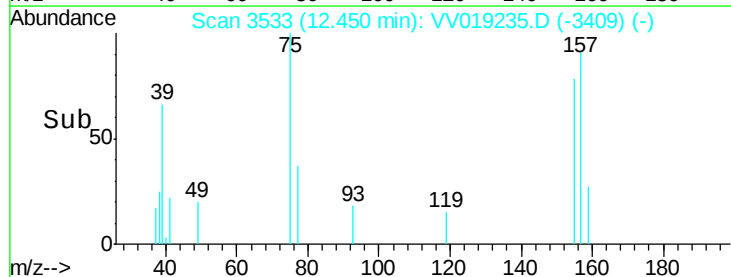
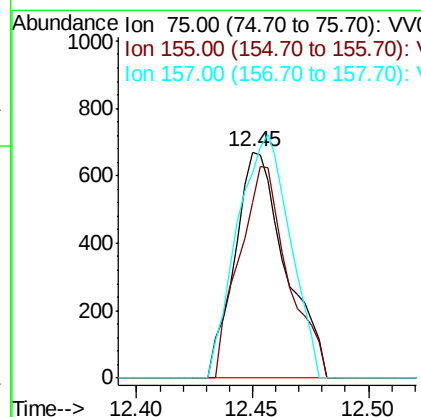
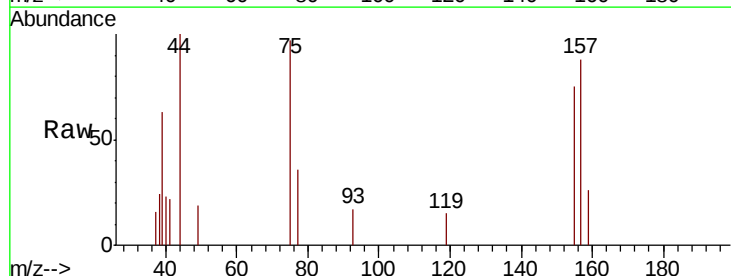
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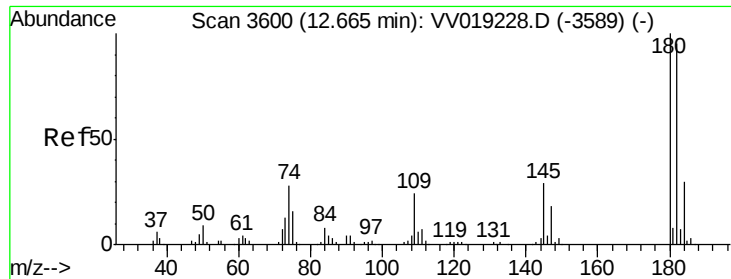
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.840 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.6	65.8	98.6
157	91.0	86.3	129.5





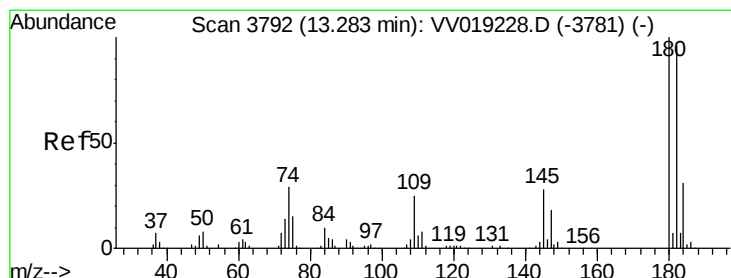
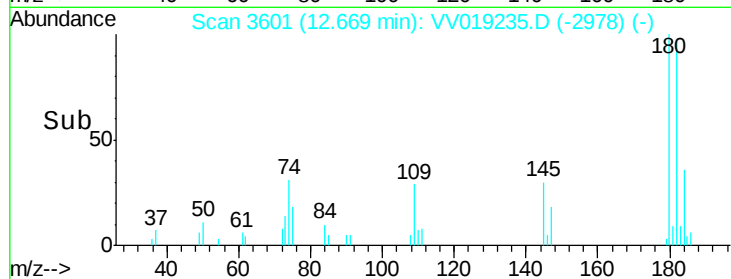
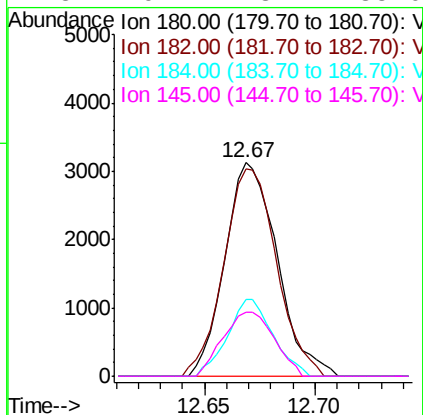
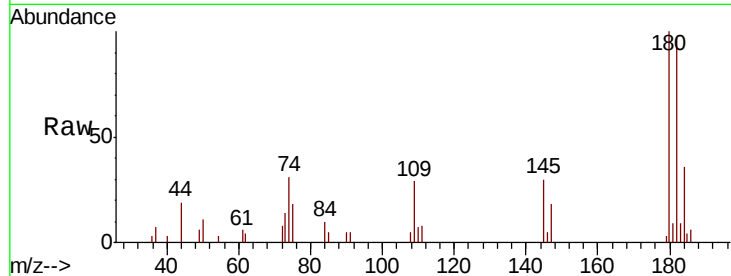
#69
 1,3,5-Trichlorobenzene
 Concen: 2.133 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:	180	Resp:	5140
Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.7	116.5
184	31.1	24.9	37.3
145	29.4	23.4	35.0

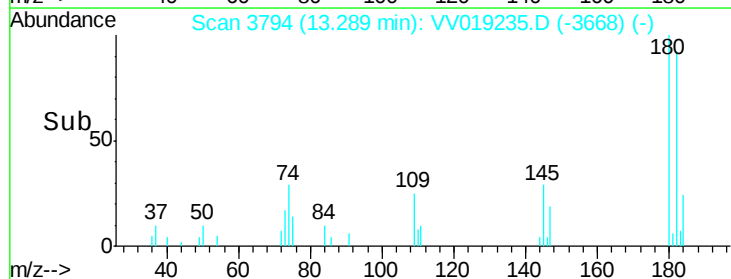
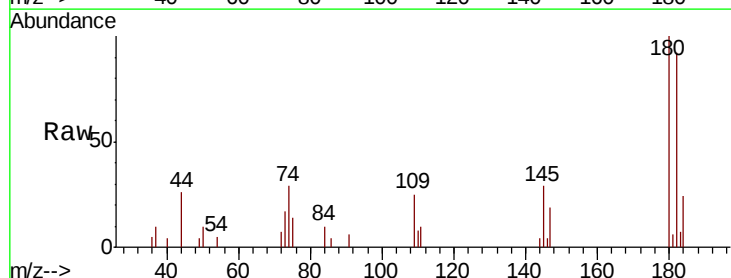
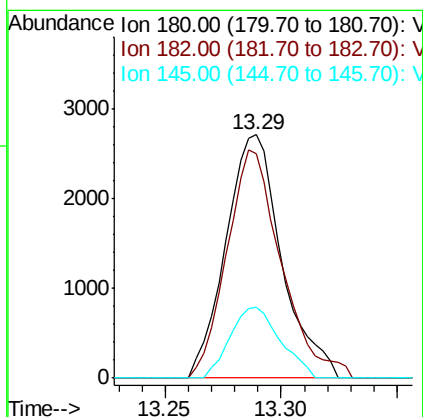
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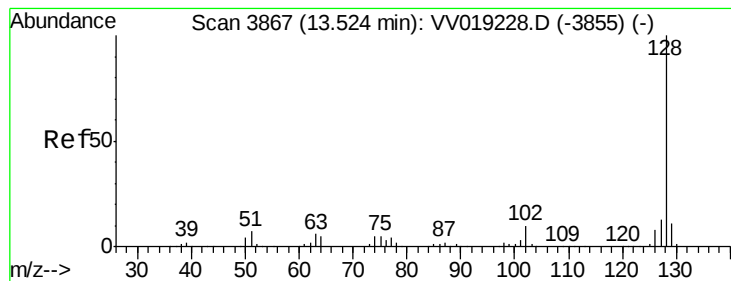
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#70
 1,2,4-trichlorobenzene
 Concen: 2.002 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion:	180	Resp:	4540
Ion	Ratio	Lower	Upper
180	100		
182	91.4	76.6	114.8
145	26.3	23.2	34.8





#71

Naphthalene

Concen: 1.428 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

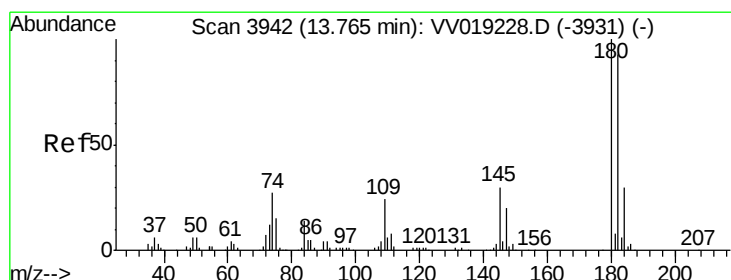
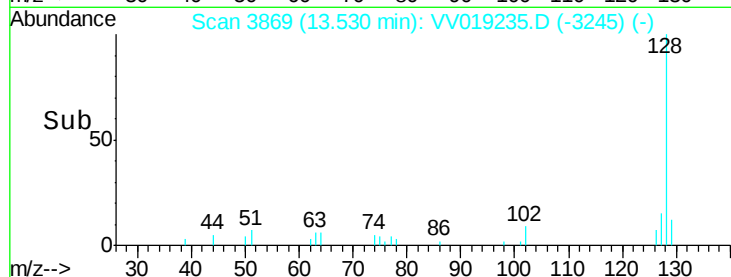
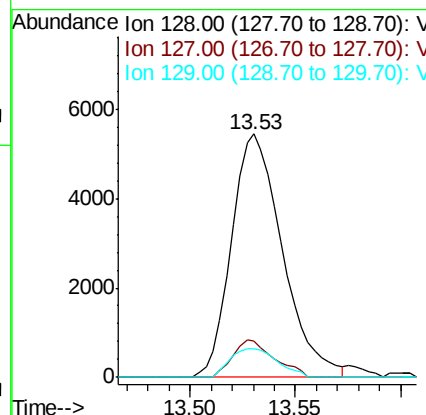
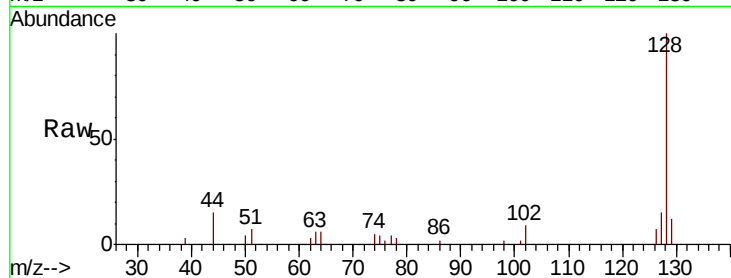
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	128	Resp:	9132
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.7	16.1
129	10.9	8.6	13.0

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#72

1,2,3-Trichlorobenzene

Concen: 1.801 ug/L

RT: 13.77 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion:	180	Resp:	4048
Ion Ratio	Lower	Upper	
180	100		
182	100.9	77.4	116.0
145	28.9	24.7	37.1

