

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100423\
 Data File : VW027225.D
 Acq On : 04 Oct 2023 18:15
 Operator : SY/MD
 Sample : 04696-04
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-QT4-2023-08

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

Quant Time: Oct 04 22:53:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092723SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Oct 04 22:49:04 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	605142	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	616477	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	320287	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.375	65	174434	18.346	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	73.400%
7) Chloroethane-d5	2.899	69	145184	19.321	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.280%
11) 1,1-Dichloroethene-d2	4.027	65	56376	14.272	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	57.080%
21) 2-Butanone-d5	7.082	46	73044	37.163	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.320%
24) Chloroform-d	7.655	84	275399	15.550	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	62.200%
26) 1,2-Dichloroethane-d4	8.307	65	143979	16.963	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	67.840%#
32) Benzene-d6	8.276	84	555585	14.705	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	58.840%
36) 1,2-Dichloropropane-d6	9.276	67	171052	15.122	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	60.480%#
41) Toluene-d8	10.325	98	488835	14.662	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	58.640%
43) trans-1,3-Dichloroprop...	10.575	79	68391	15.407	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	61.640%
47) 2-Hexanone-d5	10.922	63	59083	34.146	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.300%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	151656	17.519	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	70.080%
66) 1,2-Dichlorobenzene-d4	13.849	152	178350	16.608	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	66.440%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.021	85	8079m	1.027	ug/L	
3) Chloromethane	2.229	50	13126	1.237	ug/L	98
5) Vinyl chloride	2.375	62	16793	1.449	ug/L	84
6) Bromomethane	2.784	94	11206	1.468	ug/L	75
8) Chloroethane	2.930	64	10534m	1.498	ug/L	
9) Trichlorofluoromethane	3.259	101	10752m	1.104	ug/L	
10) 1,1,2-Trichloro-1,2,2-...	4.076	101	11496m	1.173	ug/L	
12) 1,1-Dichloroethene	4.045	96	11108m	1.187	ug/L	
13) Acetone	4.137	43	7796m	3.210	ug/L	
14) Carbon disulfide	4.393	76	29931	0.953	ug/L	96
15) Methyl Acetate	4.680	43	6241m	1.533	ug/L	
16) Methylene chloride	4.923	84	58030	4.899	ug/L	98
17) trans-1,2-Dichloroethene	5.429	96	10708	1.063	ug/L	84
18) Methyl tert-butyl Ether	5.429	73	13055	1.036	ug/L #	71
19) 1,1-Dichloroethane	6.216	63	20091	1.070	ug/L	97
20) cis-1,2-Dichloroethene	7.167	96	11328	1.055	ug/L	91
22) 2-Butanone	7.185	43	9107m	3.032	ug/L	
23) Bromochloromethane	7.527	128	5433m	1.109	ug/L	
25) Chloroform	7.673	83	21465	1.172	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	8.404	62	13165	1.173	ug/L	96
29) Cyclohexane	7.959	56	13410	0.818	ug/L	94
30) 1,1,1-Trichloroethane	7.874	97	15772	1.029	ug/L	94
31) Carbon tetrachloride	8.075	117	15375	1.062	ug/L	99
33) Benzene	8.325	78	44280	1.016	ug/L	100
34) Trichloroethene	9.093	95	11924	1.048	ug/L	90
35) Methylcyclohexane	9.331	83	16859	0.881	ug/L	94
37) 1,2-Dichloropropane	9.368	63	11813	1.052	ug/L #	90
38) Bromodichloromethane	9.648	83	14222	1.055	ug/L	97
39) cis-1,3-Dichloropropene	10.069	75	16881	1.020	ug/L	92
40) 4-Methyl-2-pentanone	10.209	43	12270	2.253	ug/L #	88
42) Toluene	10.386	91	46511	1.039	ug/L	93
44) trans-1,3-Dichloropropene	10.605	75	16593	1.224	ug/L	91
45) 1,1,2-Trichloroethane	10.788	97	10014	1.233	ug/L	98
46) Tetrachloroethene	10.861	164	9534	1.066	ug/L	96
48) 2-Hexanone	10.965	43	7757	1.817	ug/L #	80
49) Dibromochloromethane	11.123	129	9861	1.119	ug/L	85
50) 1,2-Dibromoethane	11.233	107	8986	1.192	ug/L #	100
51) Chlorobenzene	11.654	112	31019	1.045	ug/L	90
52) Ethylbenzene	11.727	91	46883	0.933	ug/L	99
53) m,p-Xylene	11.837	106	16818	0.873	ug/L	92
54) o-Xylene	12.166	106	15077	0.837	ug/L	92
55) Styrene	12.184	104	25339	0.818	ug/L	89
57) 1,1,2,2-Tetrachloroethane	12.715	83	12655	1.299	ug/L #	98
59) Bromoform	12.343	173	5620	1.111	ug/L #	38
60) Isopropylbenzene	12.459	105	39244	0.832	ug/L #	95
61) 1,2,3-Trichloropropane	12.770	75	8168	1.246	ug/L	99
62) 1,3,5-Trimethylbenzene	12.940	105	29009	0.785	ug/L	97
63) 1,2,4-Trimethylbenzene	13.245	105	28362	0.783	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	22069	1.014	ug/L	97
65) 1,4-Dichlorobenzene	13.574	146	24317	1.112	ug/L	97
67) 1,2-Dichlorobenzene	13.867	146	22103	1.158	ug/L	92
68) 1,2-Dibromo-3-chloropr...	14.483	75	2017	1.436	ug/L	90
69) 1,3,5-Trichlorobenzene	14.623	180	16025	1.143	ug/L	96
70) 1,2,4-trichlorobenzene	15.129	180	12167	1.100	ug/L	94
71) Naphthalene	15.367	128	18238	0.935	ug/L #	94
72) 1,2,3-Trichlorobenzene	15.550	180	10536	1.073	ug/L	96

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

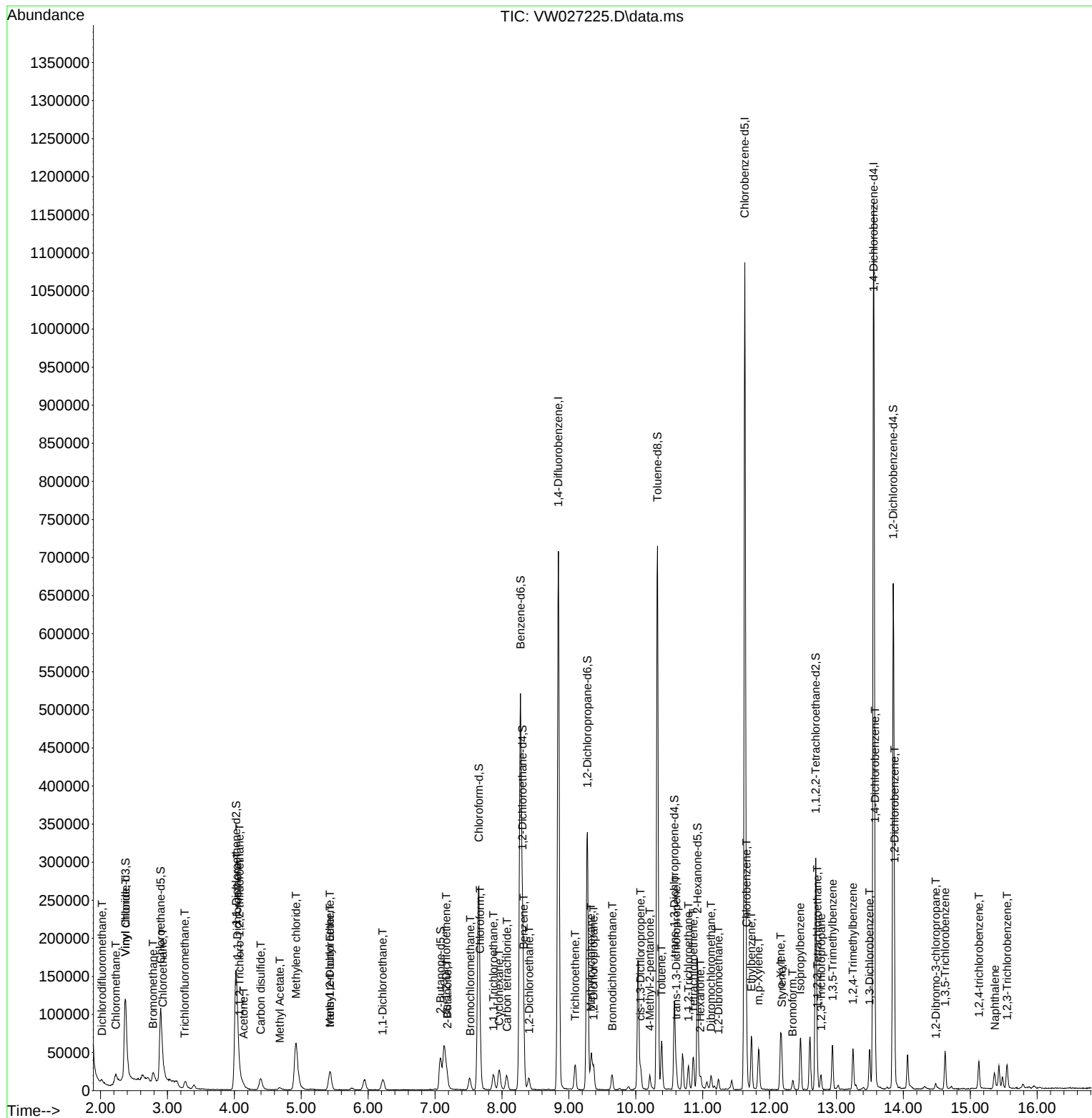
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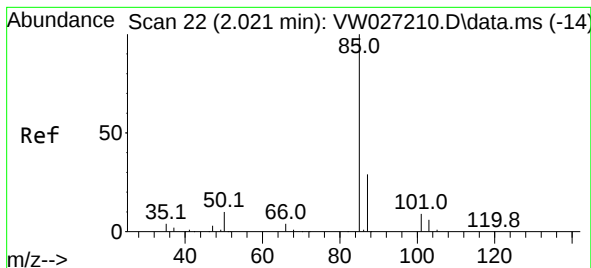
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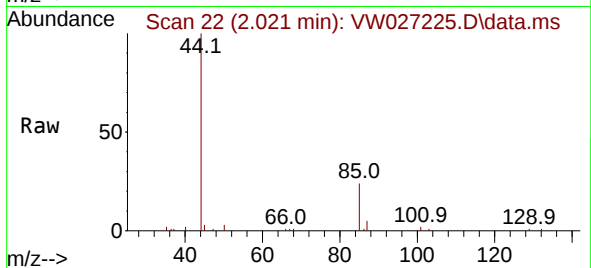
Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023





#2
Dichlorodifluoromethane
Concen: 1.027 ug/L m
RT: 2.021 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

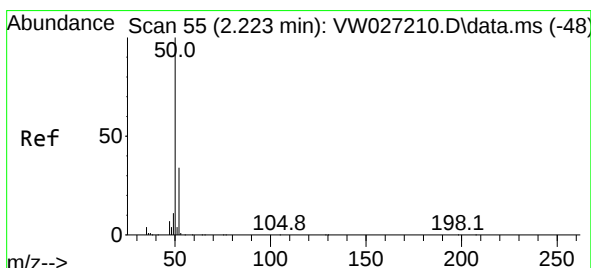
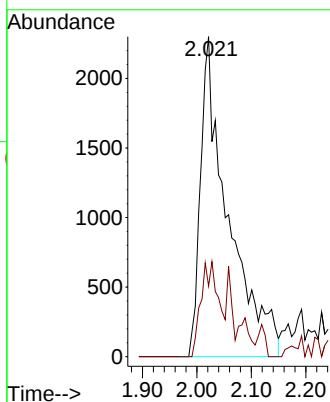
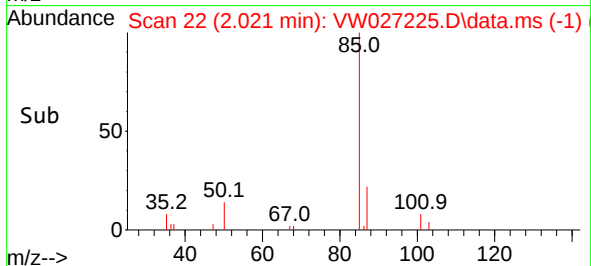
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion: 85 Resp: 8079
Ion Ratio Lower Upper
85 100
87 0.7 22.1 33.1

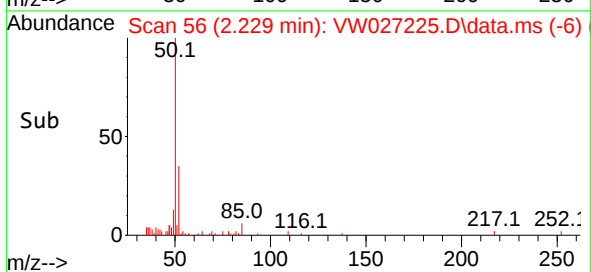
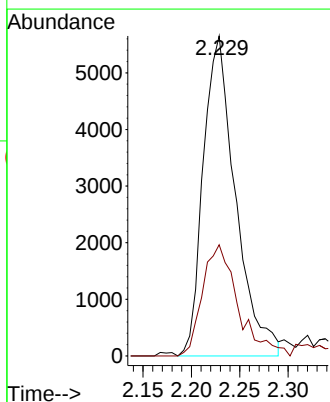
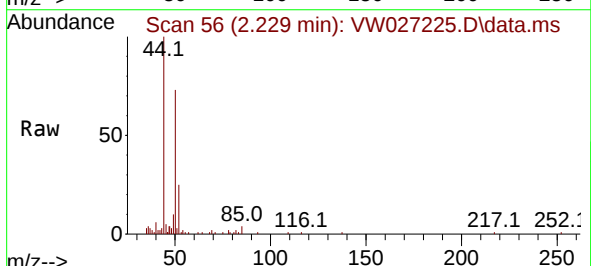
Manual Integrations
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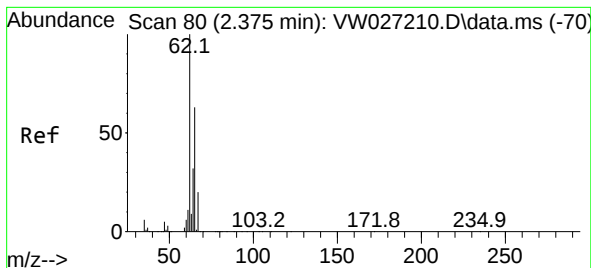
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#3
Chloromethane
Concen: 1.237 ug/L
RT: 2.229 min Scan# 56
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion: 50 Resp: 13126
Ion Ratio Lower Upper
50 100
52 34.7 23.5 43.7





#5

Vinyl chloride

Concen: 1.449 ug/L

RT: 2.375 min Scan# 80

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion: 62 Resp: 1679

Ion Ratio Lower Upper

62 100

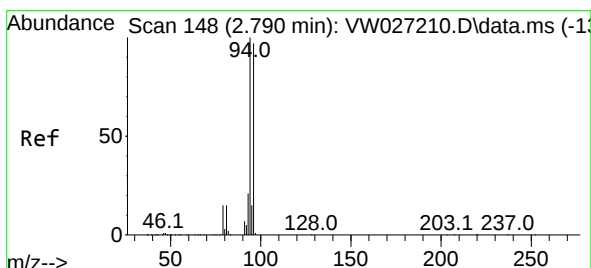
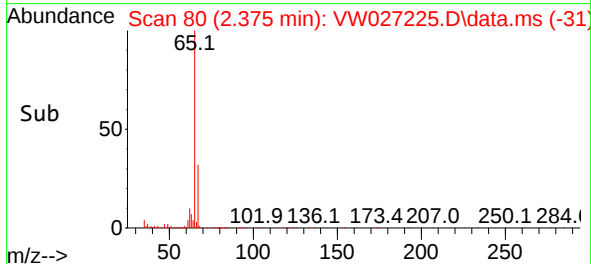
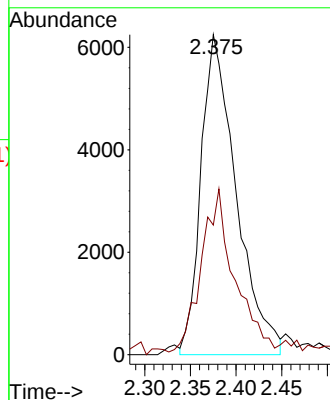
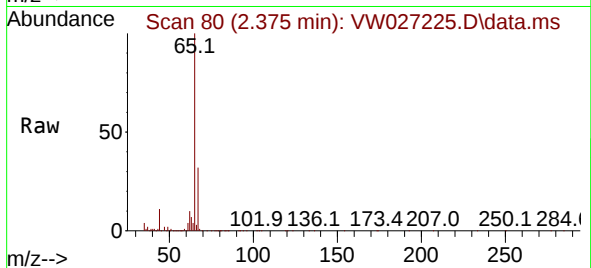
64 40.5 22.2 41.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#6

Bromomethane

Concen: 1.468 ug/L

RT: 2.784 min Scan# 147

Delta R.T. -0.006 min

Lab File: VW027225.D

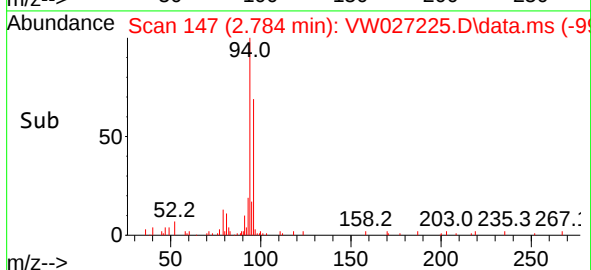
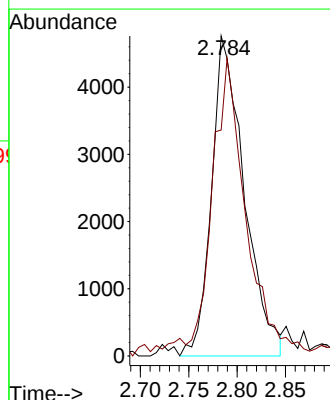
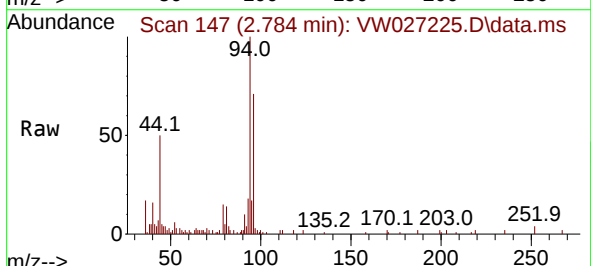
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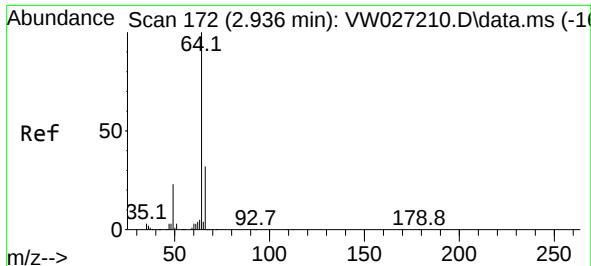
Tgt Ion: 94 Resp: 11206

Ion Ratio Lower Upper

94 100

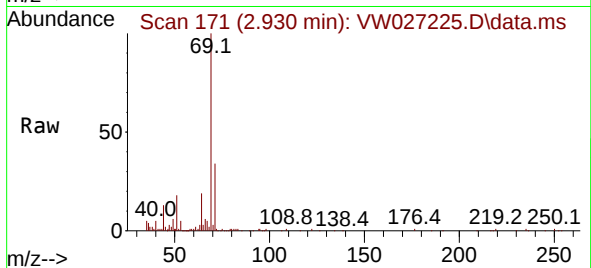
96 70.6 66.8 124.0





#8
Chloroethane
Concen: 1.498 ug/L m
RT: 2.930 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

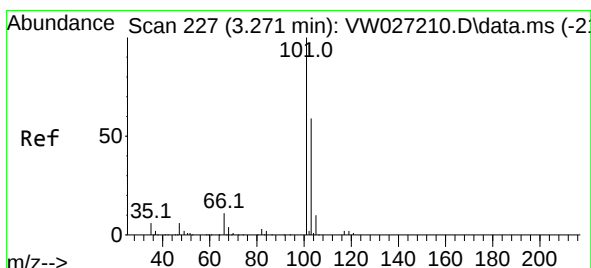
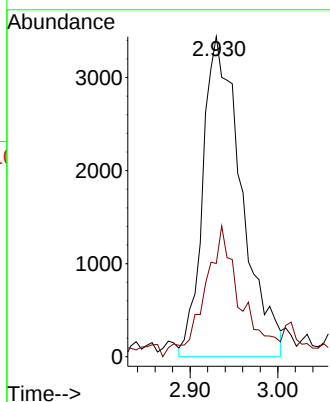
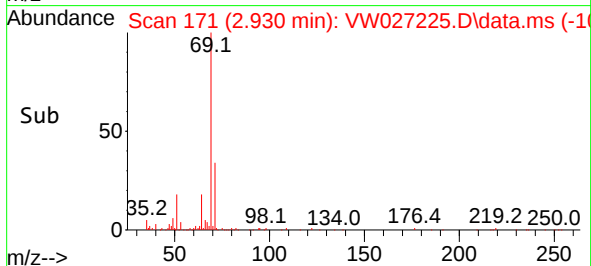
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion: 64 Resp: 10534
Ion Ratio Lower Upper
64 100
66 29.2 21.5 39.9

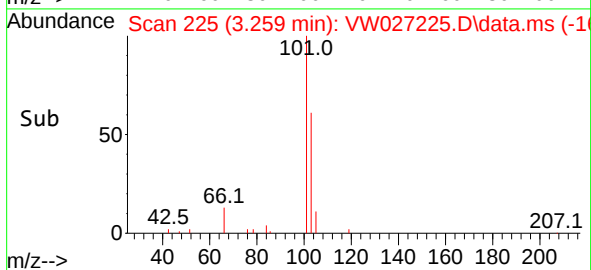
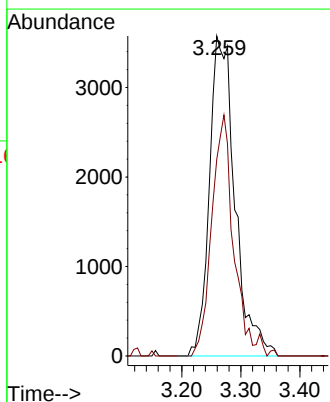
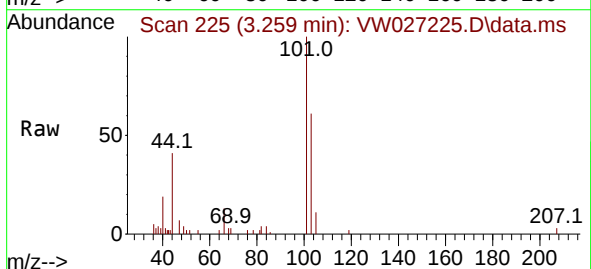
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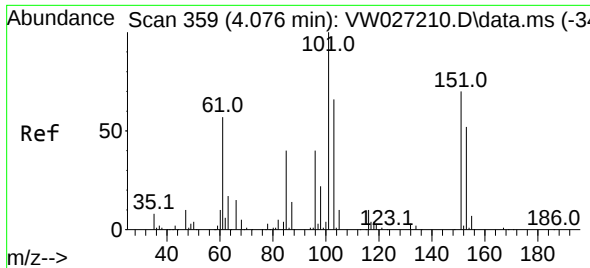
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#9
Trichlorofluoromethane
Concen: 1.104 ug/L m
RT: 3.259 min Scan# 225
Delta R.T. -0.012 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion:101 Resp: 10752
Ion Ratio Lower Upper
101 100
103 63.1 52.0 78.0





#10

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

Concen: 1.173 ug/L m

RT: 4.076 min Scan# 359

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

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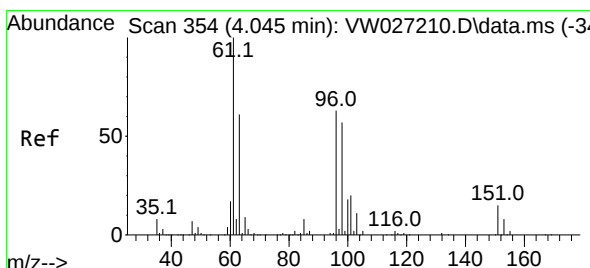
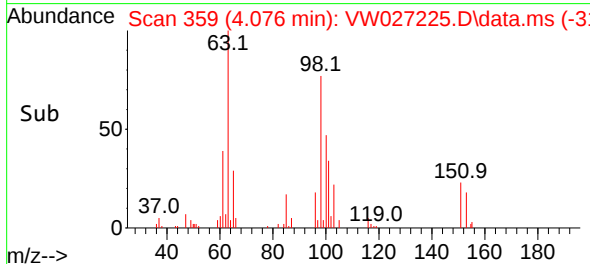
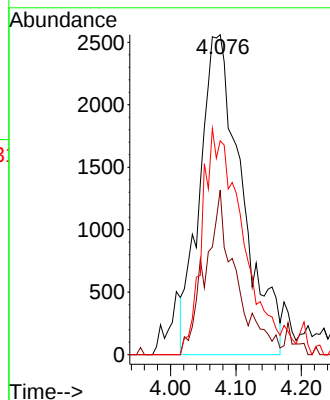
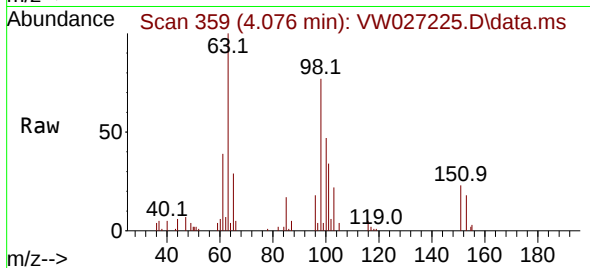
Tgt Ion:	101	Resp:	11490
Ion Ratio	Lower	Upper	
101	100		
85	33.1	33.1	49.7
151	25.6	58.6	87.8

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#12

1,1-Dichloroethene

Concen: 1.187 ug/L m

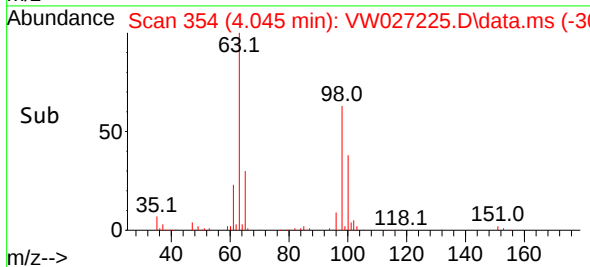
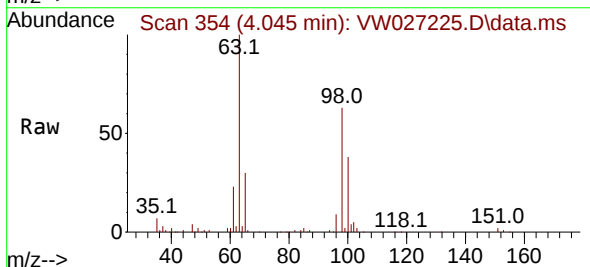
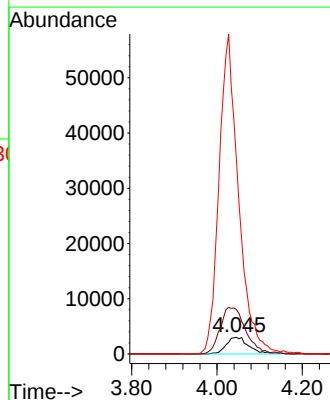
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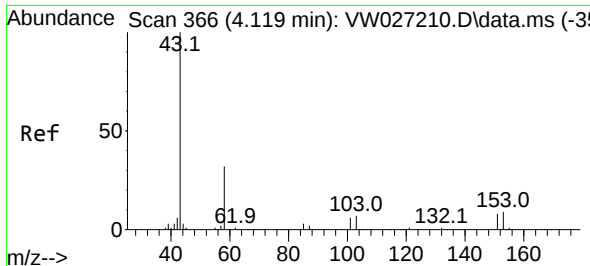
Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Tgt Ion:	96	Resp:	11108
Ion Ratio	Lower	Upper	
96	100		
61	265.7	109.8	204.0#
63	1170.5	76.9	142.7#





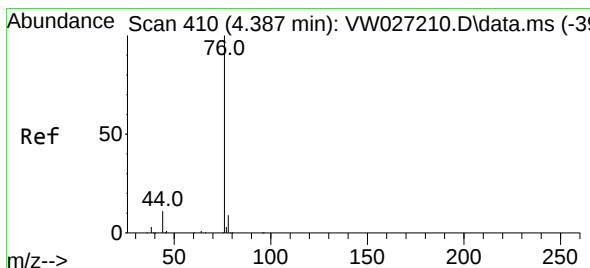
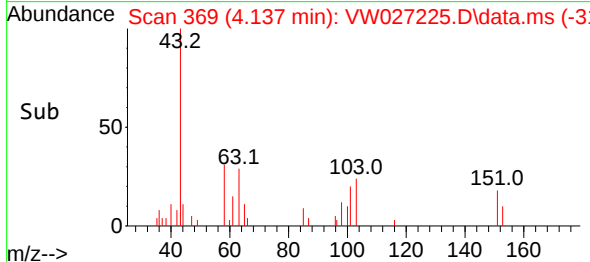
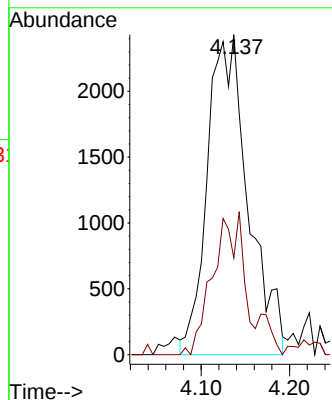
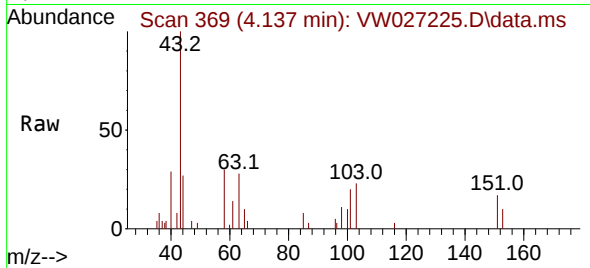
#13
Acetone
Concen: 3.210 ug/L m
RT: 4.137 min Scan# 369
Delta R.T. 0.018 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

Tgt Ion: 43 Resp: 7790
Ion Ratio Lower Upper
43 100
58 23.1 0.0 70.4

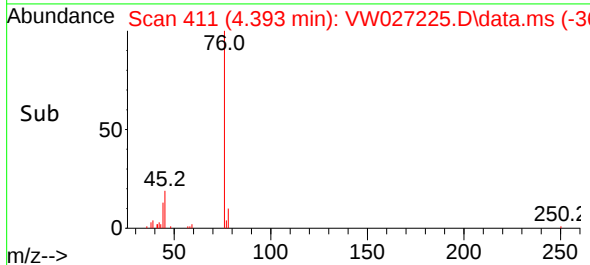
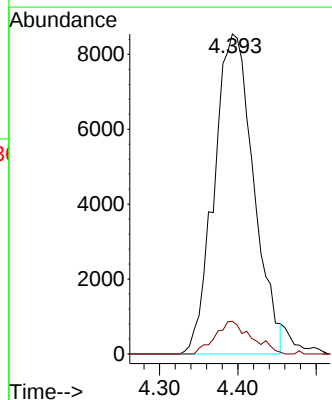
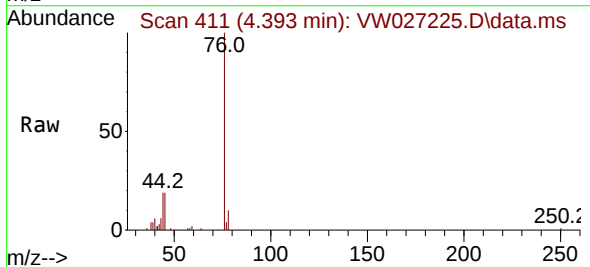
Manual Integrations
APPROVED

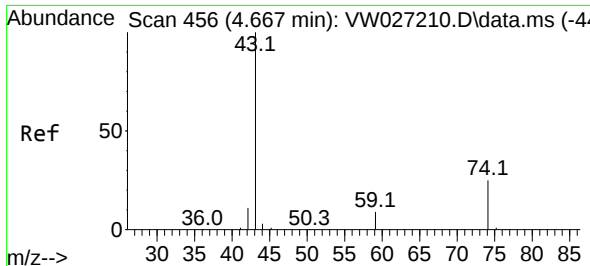
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#14
Carbon disulfide
Concen: 0.953 ug/L
RT: 4.393 min Scan# 411
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

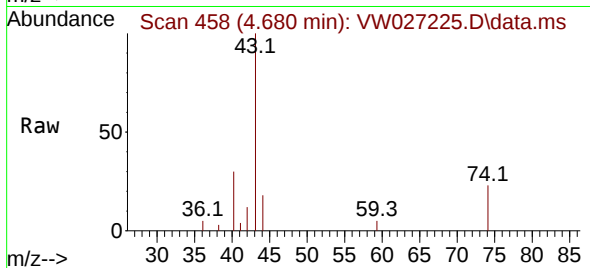
Tgt Ion: 76 Resp: 29931
Ion Ratio Lower Upper
76 100
78 10.2 7.0 10.6





#15
Methyl Acetate
Concen: 1.533 ug/L m
RT: 4.680 min Scan# 4
Delta R.T. 0.012 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

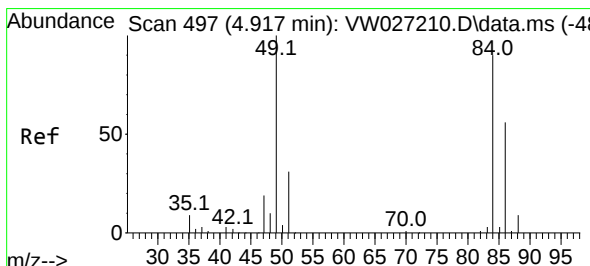
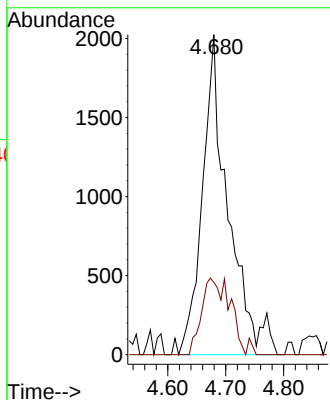
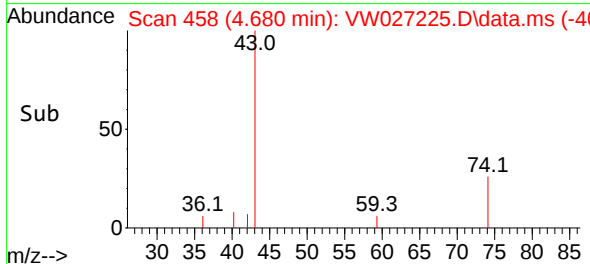
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



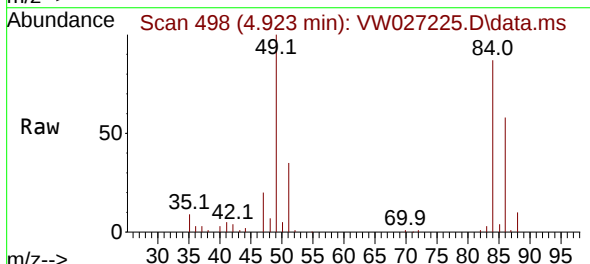
Tgt Ion: 43 Resp: 624
Ion Ratio Lower Upper
43 100
74 1.3 20.8 31.2

Manual Integrations
APPROVED

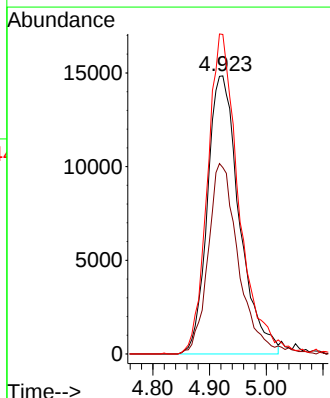
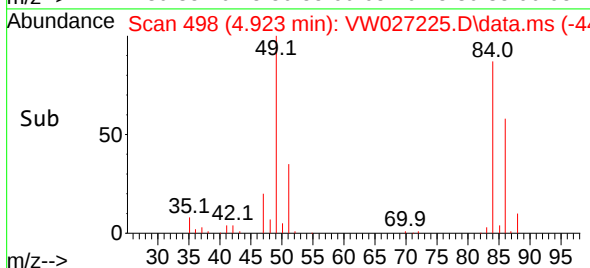
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

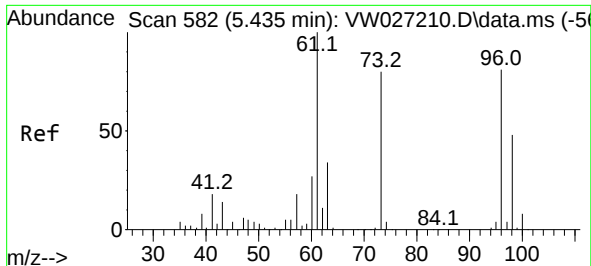


#16
Methylene chloride
Concen: 4.899 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15



Tgt Ion: 84 Resp: 58030
Ion Ratio Lower Upper
84 100
86 67.0 45.1 83.9
49 114.9 80.9 150.3





#17

trans-1,2-Dichloroethene

Concen: 1.063 ug/L

RT: 5.429 min Scan# 581

Delta R.T. -0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion: 96 Resp: 10708

Ion Ratio Lower Upper

96 100

61 113.8 93.5 173.7

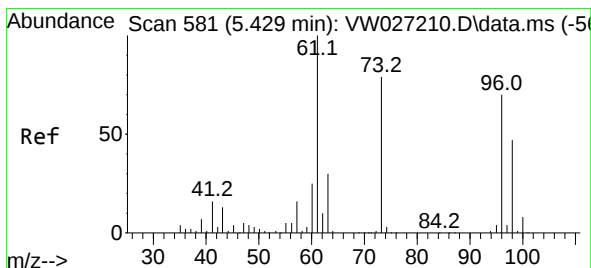
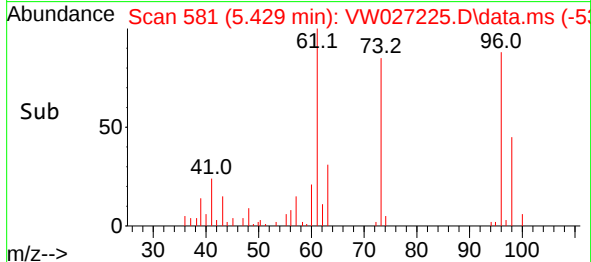
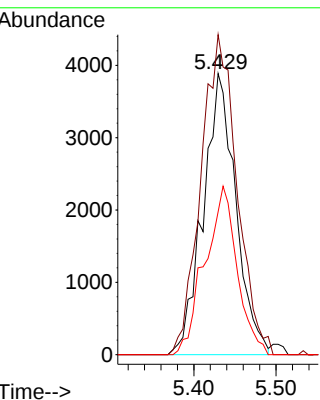
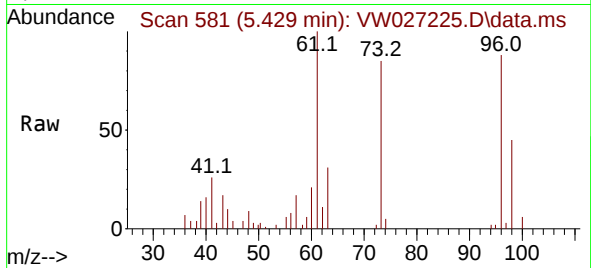
98 50.8 43.3 80.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#18

Methyl tert-butyl Ether

Concen: 1.036 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

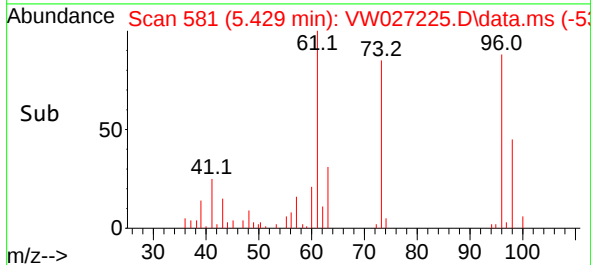
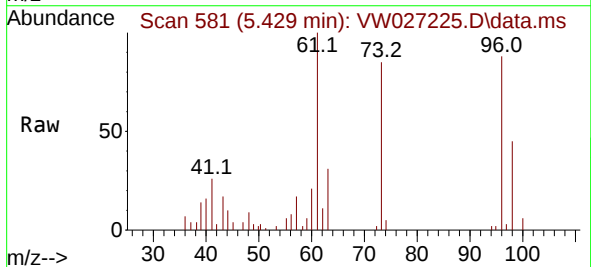
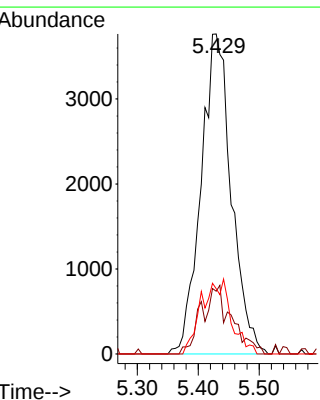
Tgt Ion: 73 Resp: 13055

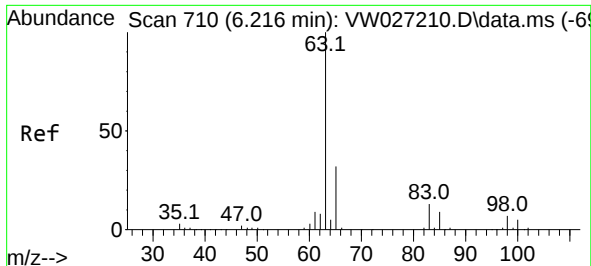
Ion Ratio Lower Upper

73 100

43 8.1 14.2 21.2#

57 6.6 18.3 27.5#





#19

1,1-Dichloroethane

Concen: 1.070 ug/L

RT: 6.216 min Scan# 710

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

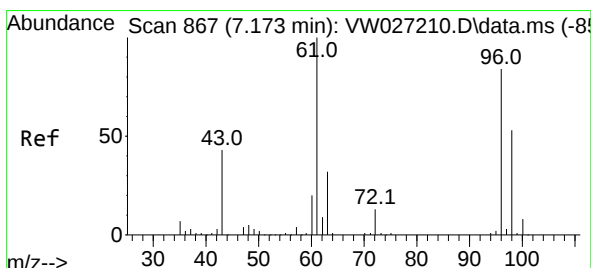
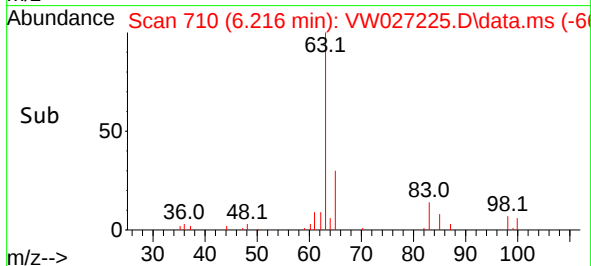
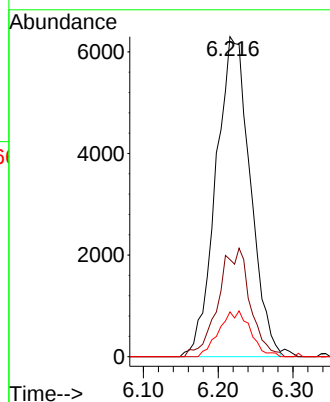
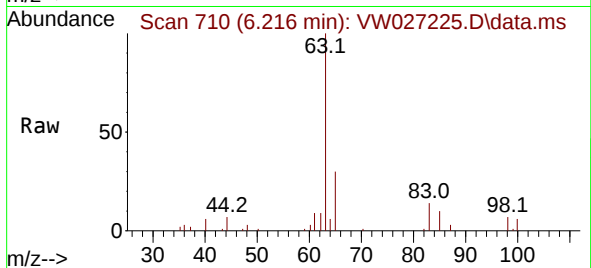
MDL-SOIL-QT4-2023-08

Tgt Ion:	63	Resp:	2099
Ion Ratio	Lower	Upper	
63	100		
65	30.3	22.5	41.9
83	14.0	9.4	17.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#20

cis-1,2-Dichloroethene

Concen: 1.055 ug/L

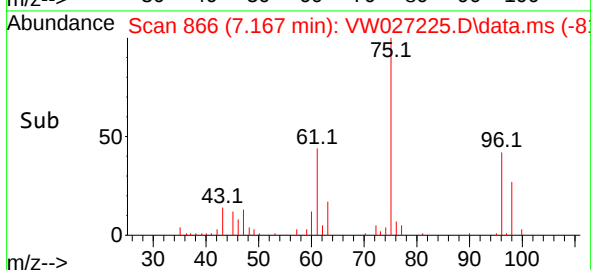
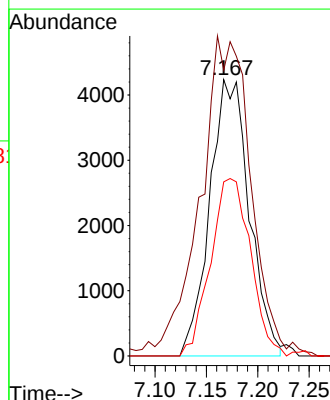
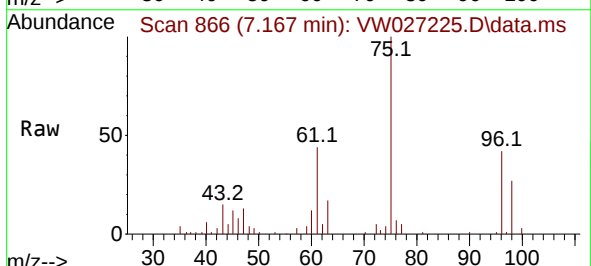
RT: 7.167 min Scan# 866

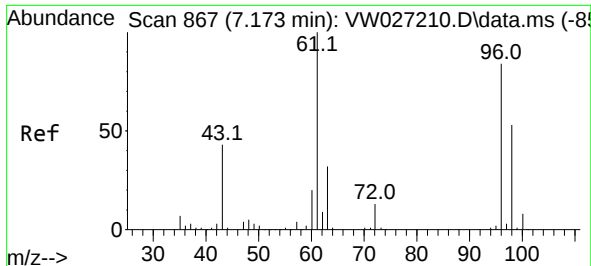
Delta R.T. -0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Tgt Ion:	96	Resp:	11328
Ion Ratio	Lower	Upper	
96	100		
61	103.4	82.7	153.5
98	63.0	43.0	80.0





#22

2-Butanone

Concen: 3.032 ug/L m

RT: 7.185 min Scan# 867

Delta R.T. 0.012 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

43 100

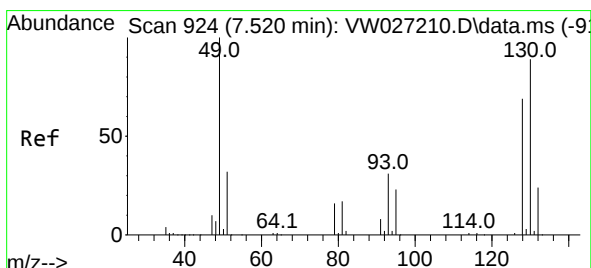
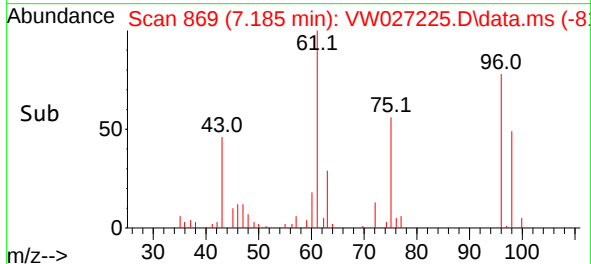
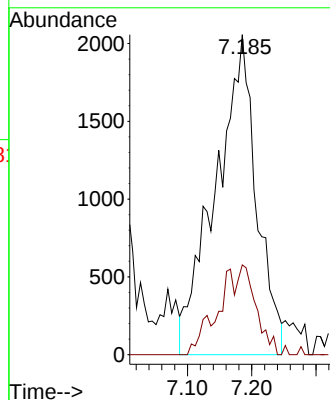
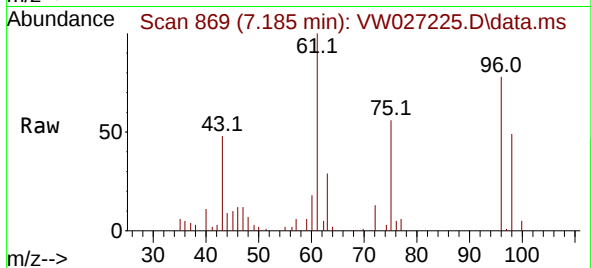
72 12.8 14.6 44.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#23

Bromochloromethane

Concen: 1.109 ug/L m

RT: 7.527 min Scan# 925

Delta R.T. 0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Tgt Ion:128 Resp: 5433

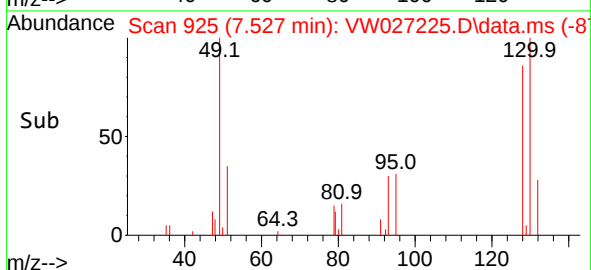
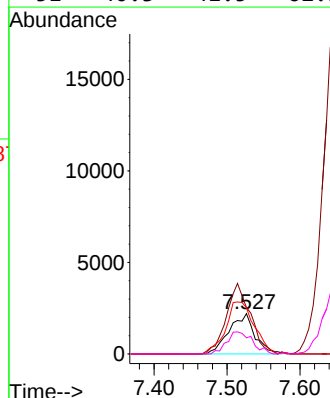
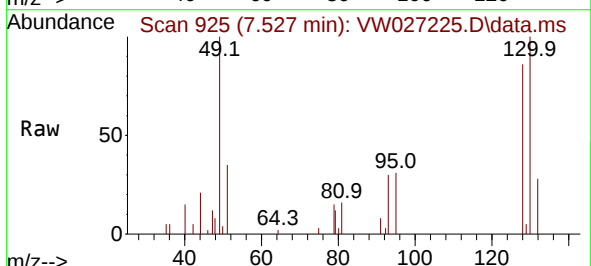
Ion Ratio Lower Upper

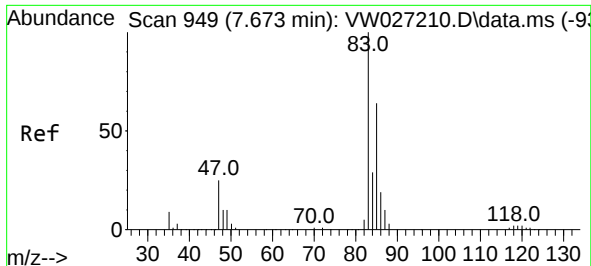
128 100

49 115.7 112.1 208.1

130 115.3 83.9 155.7

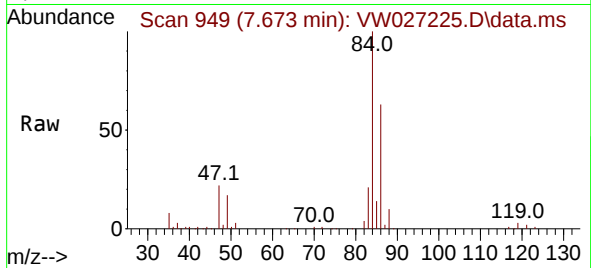
51 40.3 41.5 62.3





#25
Chloroform
Concen: 1.172 ug/L
RT: 7.673 min Scan# 949
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

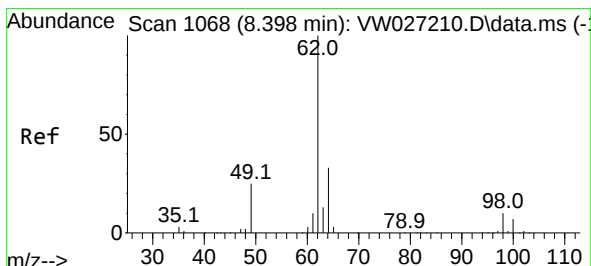
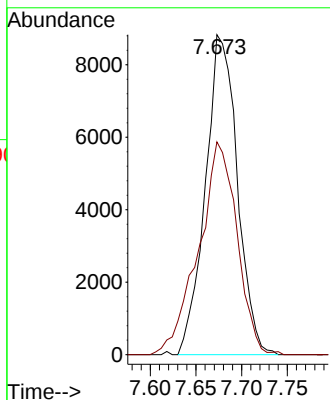
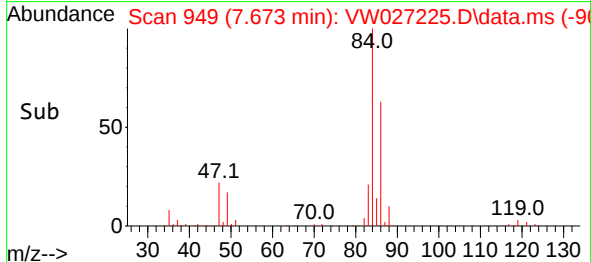
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



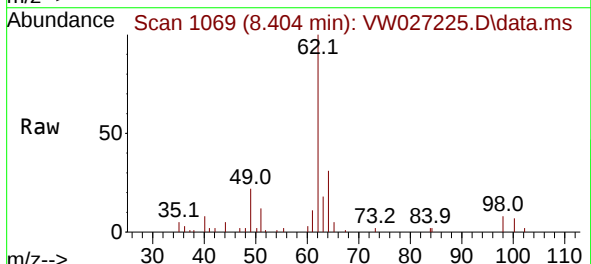
Tgt Ion: 83 Resp: 2146
Ion Ratio Lower Upper
83 100
85 66.5 47.7 88.5

Manual Integrations
APPROVED

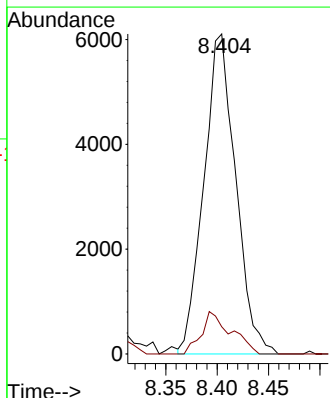
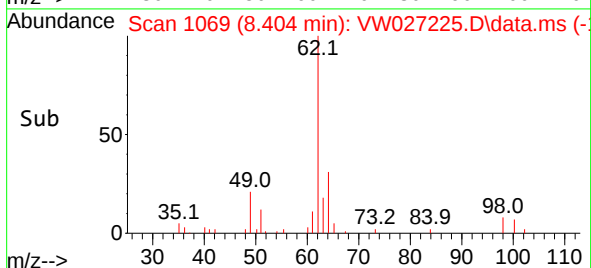
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

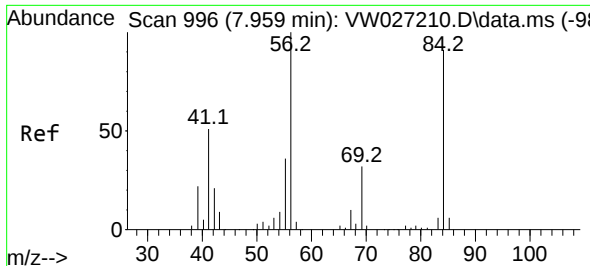


#27
1,2-Dichloroethane
Concen: 1.173 ug/L
RT: 8.404 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15



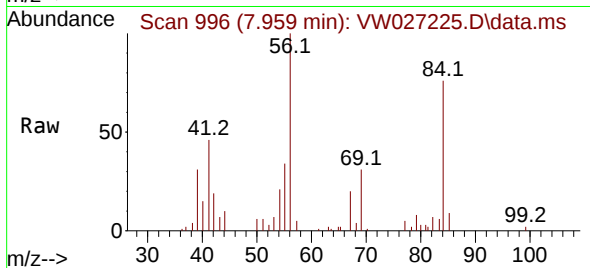
Tgt Ion: 62 Resp: 13165
Ion Ratio Lower Upper
62 100
98 8.5 7.9 11.9





#29
Cyclohexane
Concen: 0.818 ug/L
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

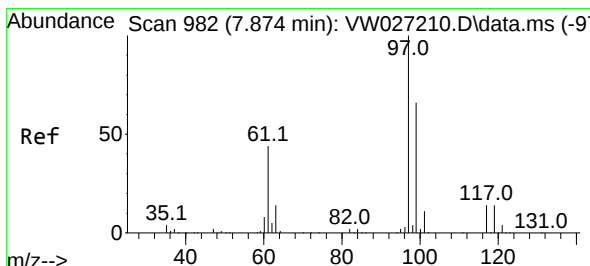
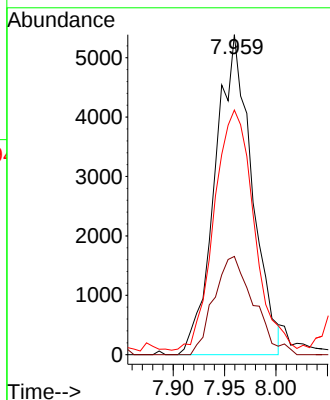
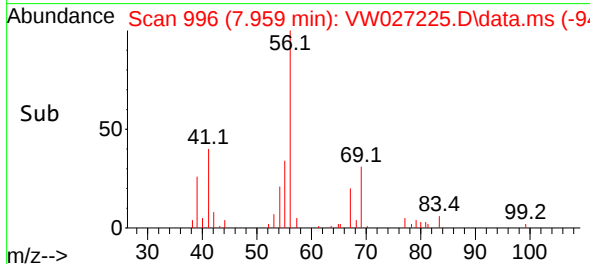
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



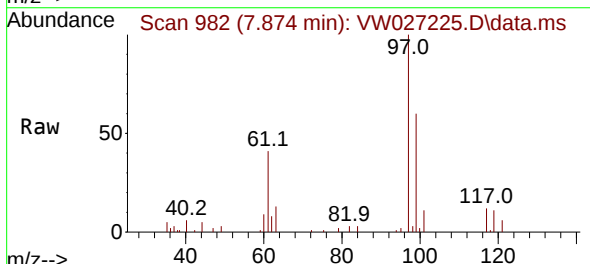
Tgt Ion: 56 Resp: 13410
Ion Ratio Lower Upper
56 100
69 32.3 25.0 37.4
84 80.9 69.9 104.9

Manual Integrations
APPROVED

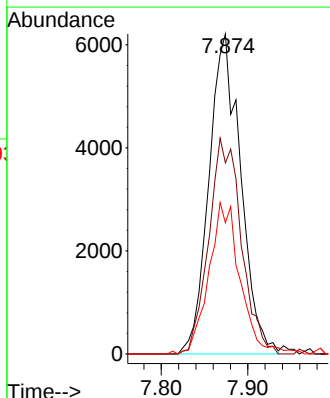
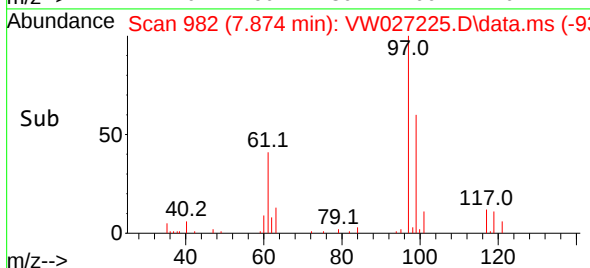
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

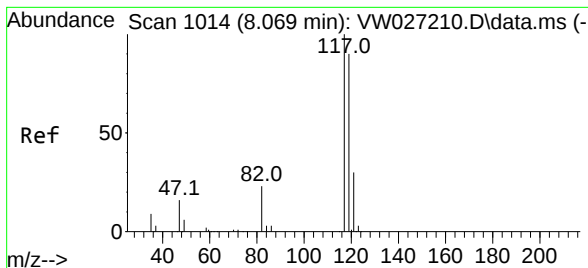


#30
1,1,1-Trichloroethane
Concen: 1.029 ug/L
RT: 7.874 min Scan# 982
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15



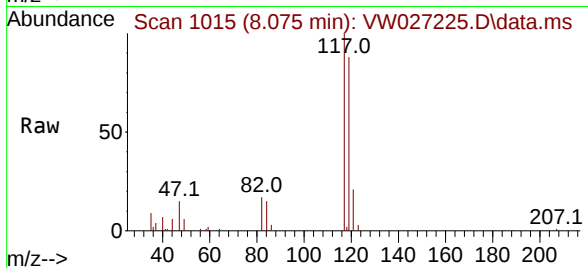
Tgt Ion: 97 Resp: 15772
Ion Ratio Lower Upper
97 100
99 69.2 50.8 76.2
61 45.3 34.6 52.0





#31
Carbon tetrachloride
Concen: 1.062 ug/L
RT: 8.075 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

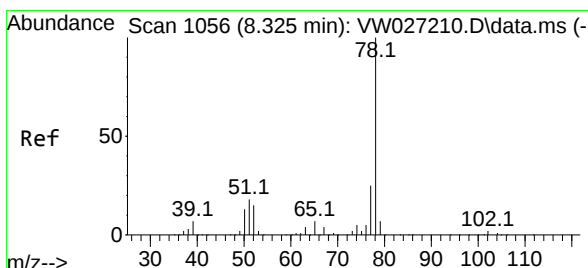
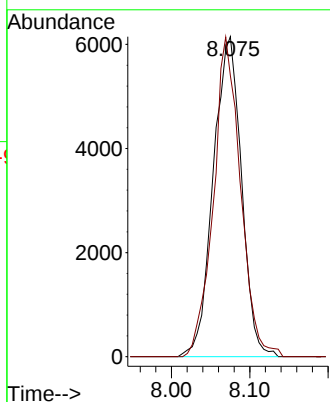
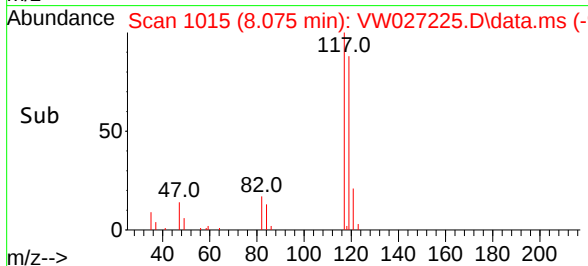
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion:117 Resp: 1537
Ion Ratio Lower Upper
117 100
119 95.6 77.0 115.6

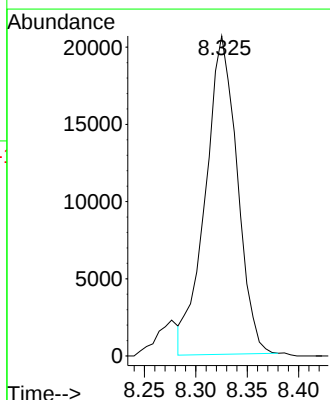
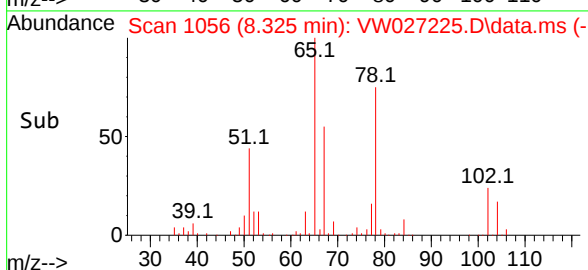
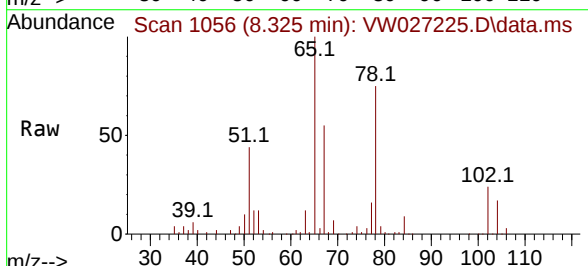
Manual Integrations
APPROVED

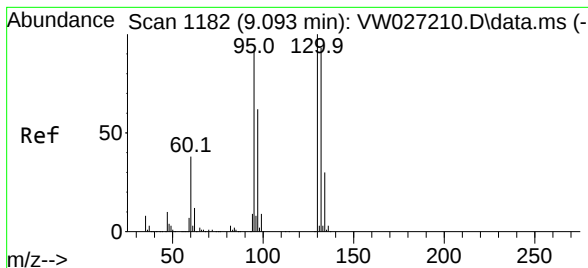
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#33
Benzene
Concen: 1.016 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion: 78 Resp: 44280





#34

Trichloroethene

Concen: 1.048 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

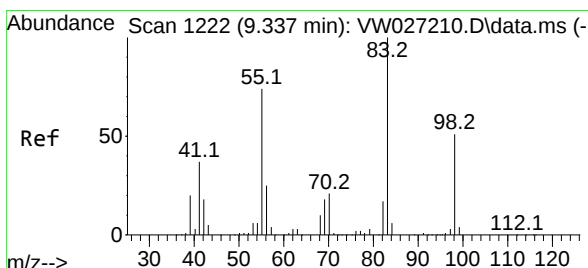
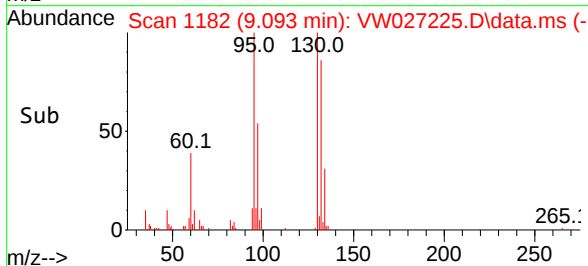
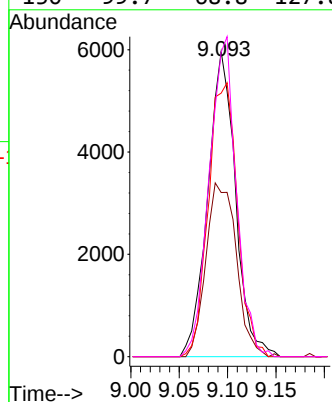
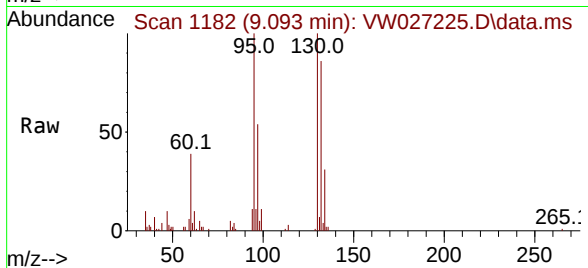
MDL-SOIL-QT4-2023-08

Tgt Ion:	95	Resp:	11924
Ion	Ratio	Lower	Upper
95	100		
97	53.8	46.1	85.7
132	86.4	71.5	132.9
130	99.7	68.8	127.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#35

Methylcyclohexane

Concen: 0.881 ug/L

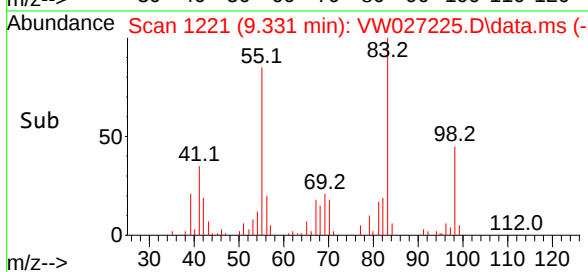
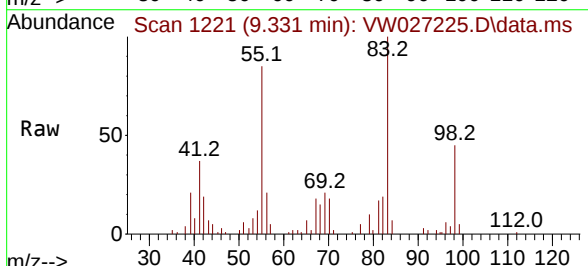
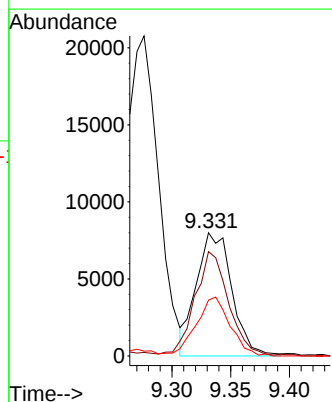
RT: 9.331 min Scan# 1221

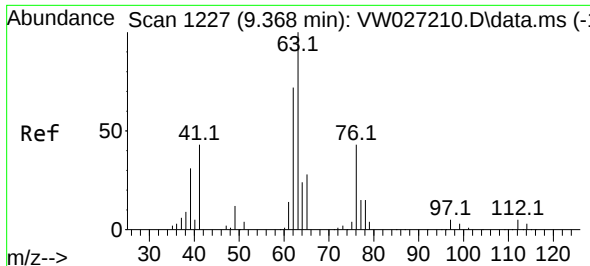
Delta R.T. -0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Tgt Ion:	83	Resp:	16859
Ion	Ratio	Lower	Upper
83	100		
55	80.1	59.1	88.7
98	45.9	38.6	58.0





#37

1,2-Dichloropropane

Concen: 1.052 ug/L

RT: 9.368 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion: 63 Resp: 1181

Ion Ratio Lower Upper

63 100

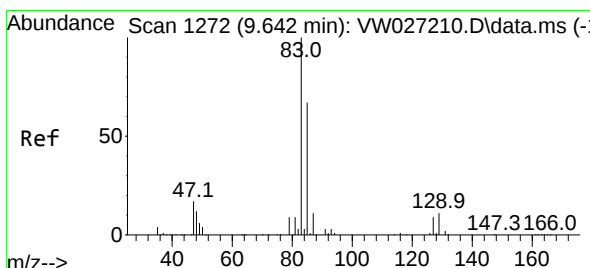
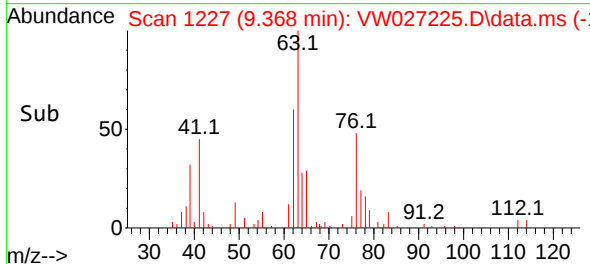
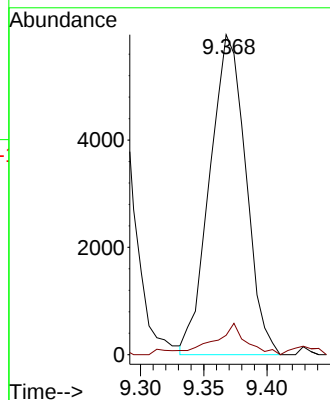
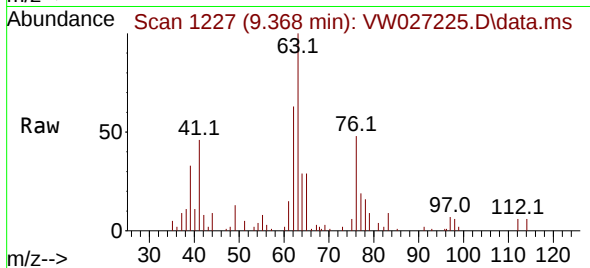
112 8.1 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#38

Bromodichloromethane

Concen: 1.055 ug/L

RT: 9.648 min Scan# 1273

Delta R.T. 0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

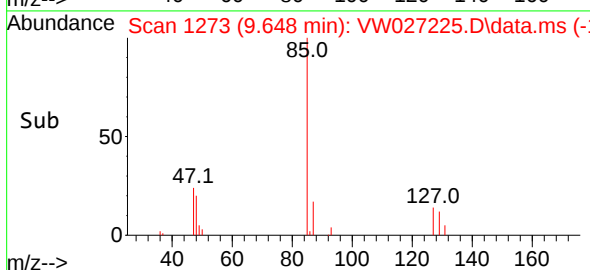
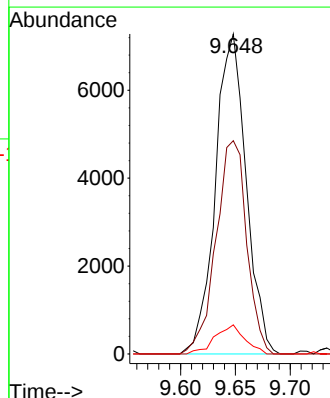
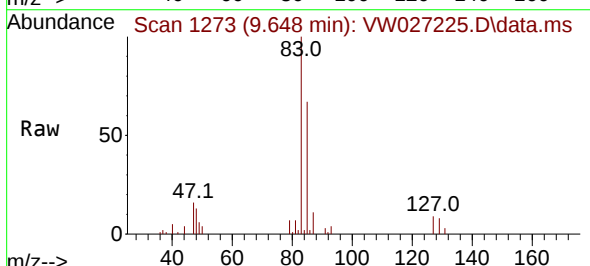
Tgt Ion: 83 Resp: 14222

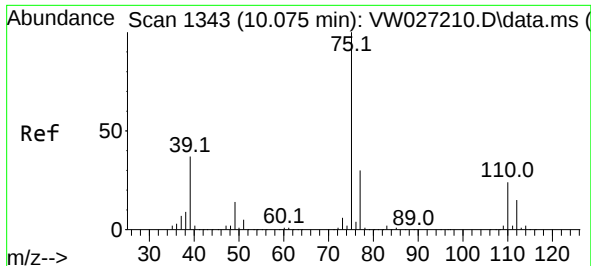
Ion Ratio Lower Upper

83 100

85 66.6 44.7 82.9

127 9.1 7.0 10.6





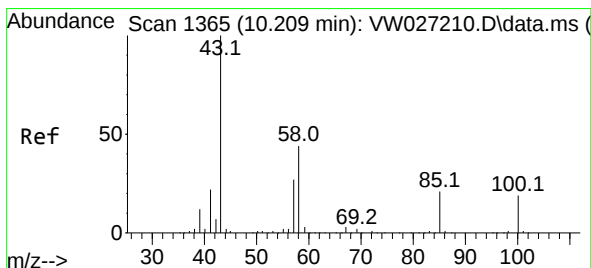
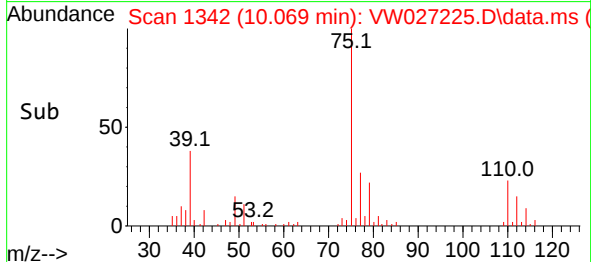
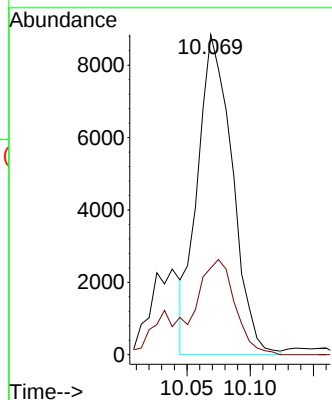
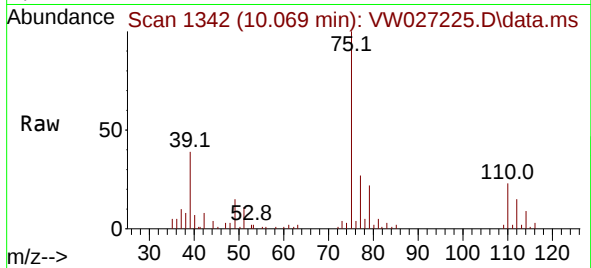
#39
cis-1,3-Dichloropropene
Concen: 1.020 ug/L
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

Tgt Ion: 75 Resp: 1688
Ion Ratio Lower Upper
75 100
77 27.1 22.3 41.3

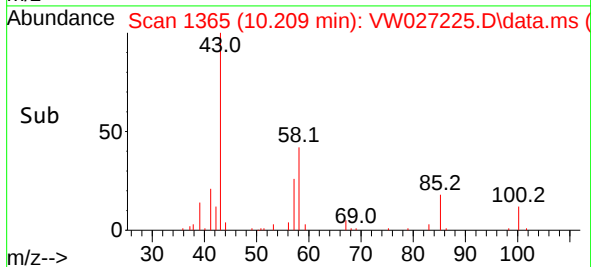
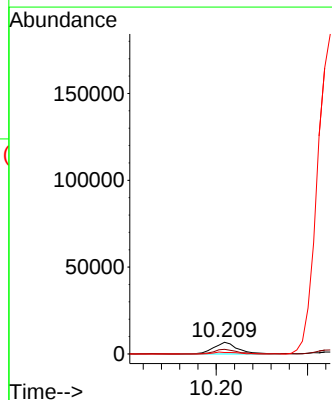
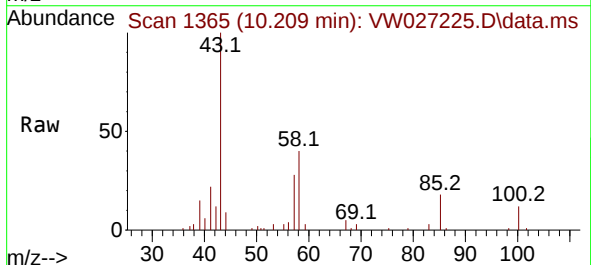
Manual Integrations
APPROVED

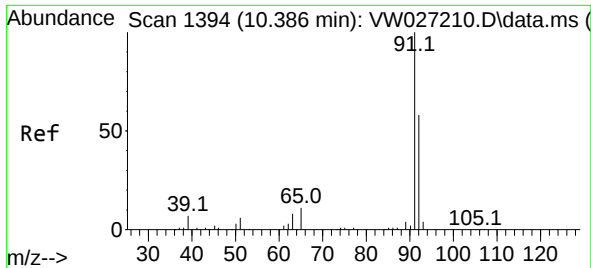
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#40
4-Methyl-2-pentanone
Concen: 2.253 ug/L
RT: 10.209 min Scan# 1365
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

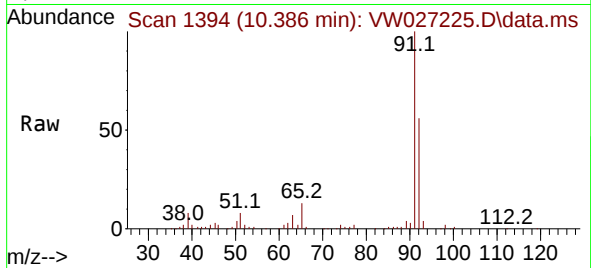
Tgt Ion: 43 Resp: 12270
Ion Ratio Lower Upper
43 100
58 37.3 33.8 50.6
100 7.9 13.7 20.5#





#42
Toluene
Concen: 1.039 ug/L
RT: 10.386 min Scan# 1394
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

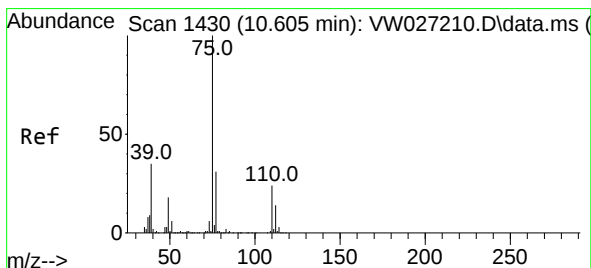
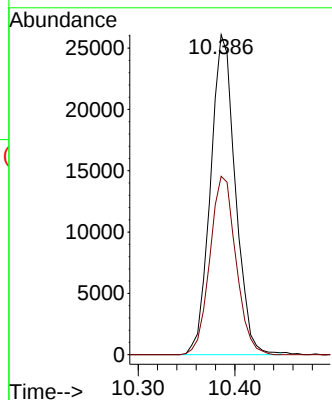
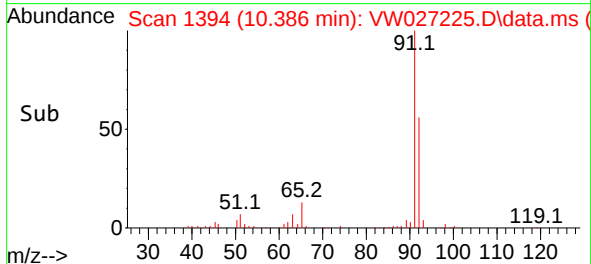
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion: 91 Resp: 4651
Ion Ratio Lower Upper
91 100
92 55.7 42.6 79.2

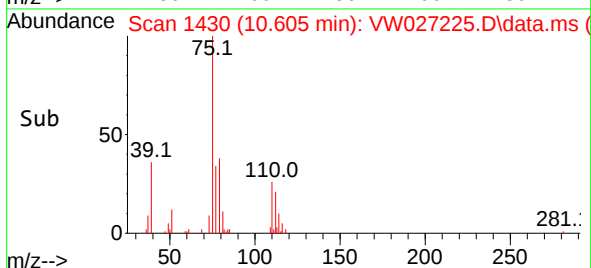
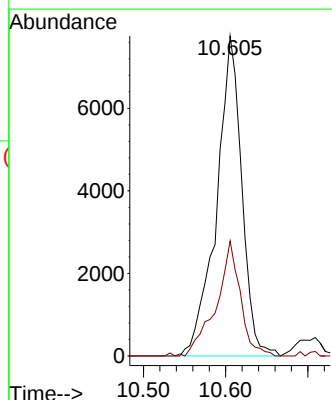
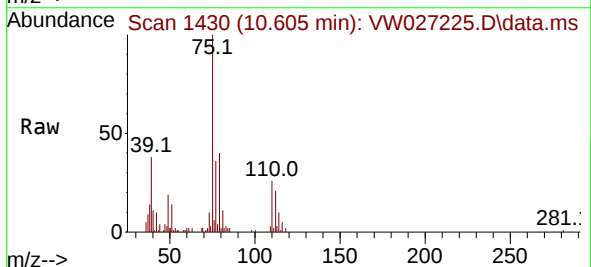
Manual Integrations
APPROVED

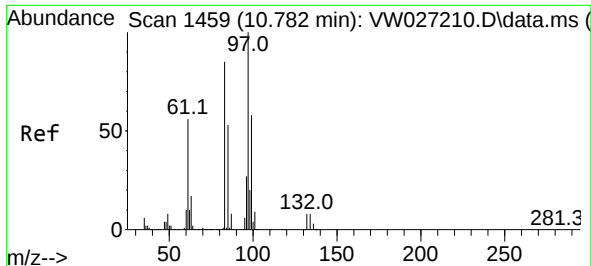
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#44
trans-1,3-Dichloropropene
Concen: 1.224 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

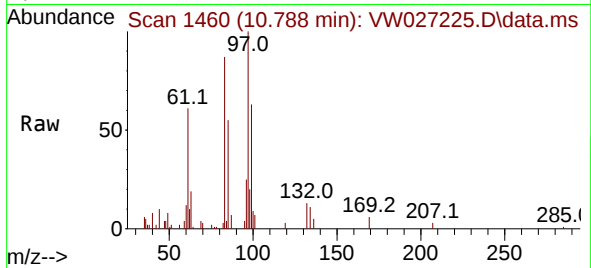
Tgt Ion: 75 Resp: 16593
Ion Ratio Lower Upper
75 100
77 35.9 21.6 40.2





#45
1,1,2-Trichloroethane
Concen: 1.233 ug/L
RT: 10.788 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

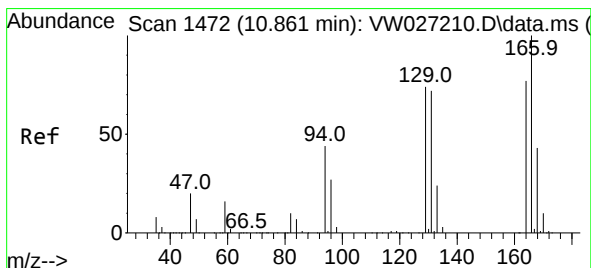
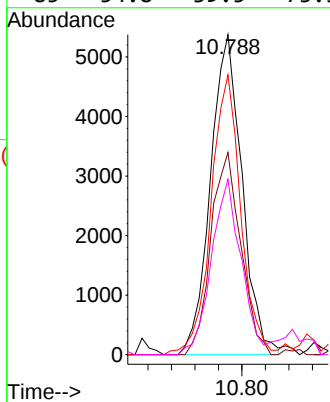
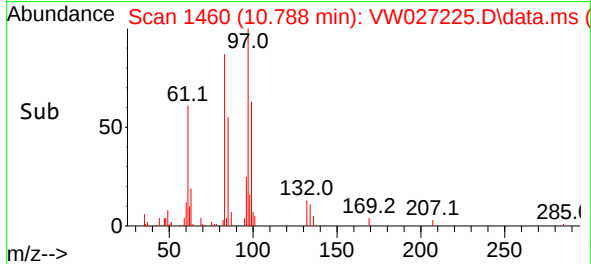
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	45.3	84.1
83	87.5	59.5	110.5
85	54.8	39.5	73.3

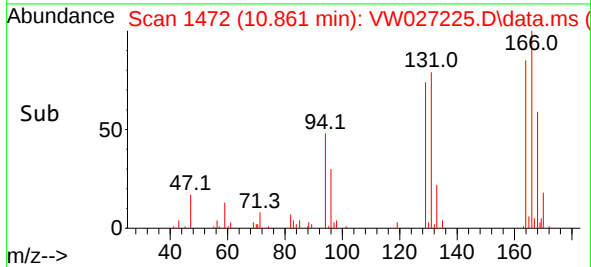
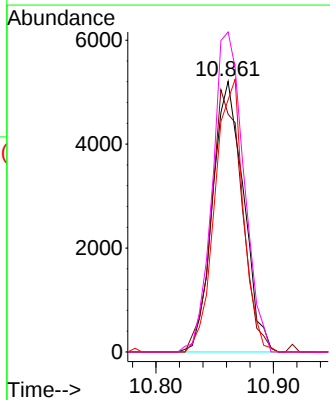
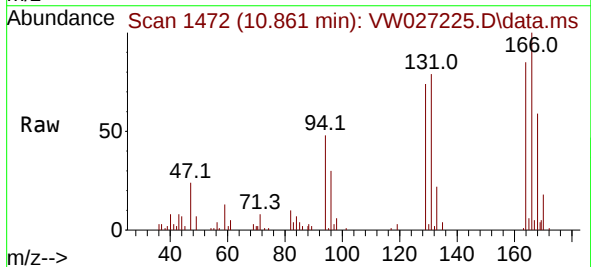
Manual Integrations
APPROVED

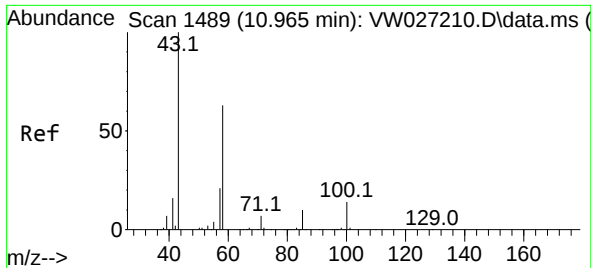
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#46
Tetrachloroethene
Concen: 1.066 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

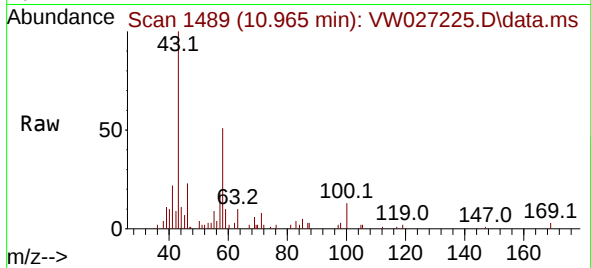
Tgt Ion	Ratio	Lower	Upper
164	100		
129	87.9	60.3	112.1
131	93.2	66.1	122.7
166	118.3	89.4	166.0





#48
2-Hexanone
Concen: 1.817 ug/L
RT: 10.965 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

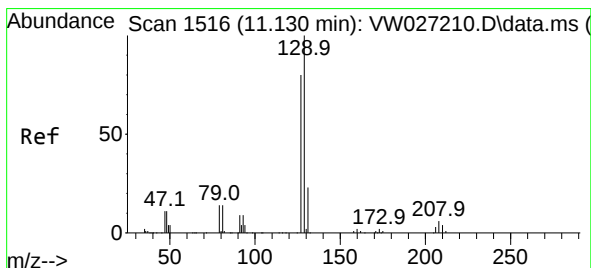
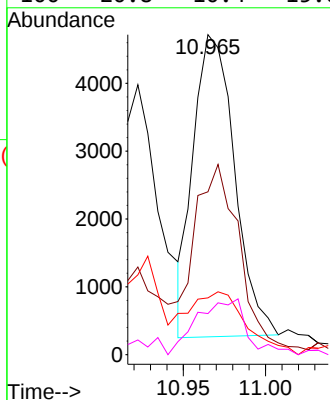
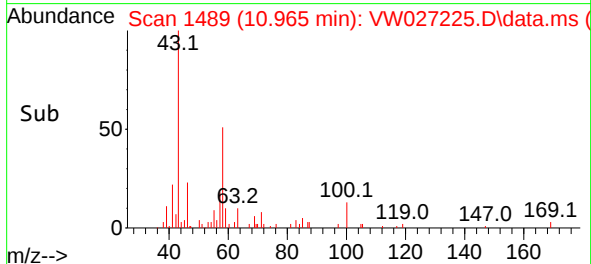
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion: 43 Resp: 775
Ion Ratio Lower Upper
43 100
58 73.2 47.2 70.8
57 30.3 15.9 23.9
100 20.8 10.4 15.6#

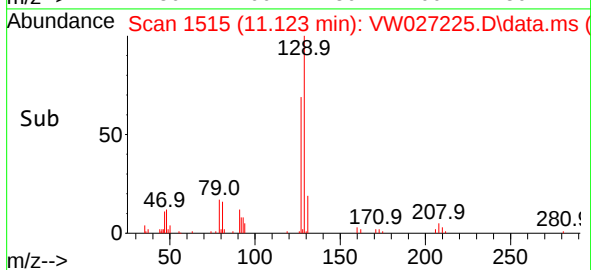
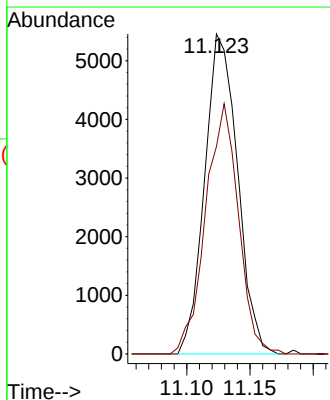
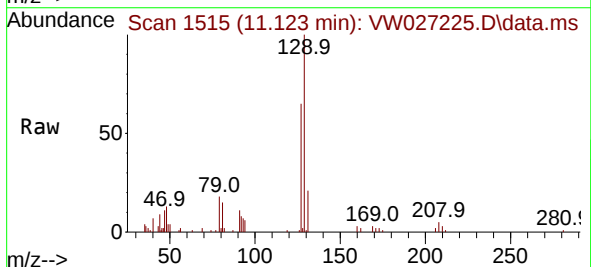
Manual Integrations
APPROVED

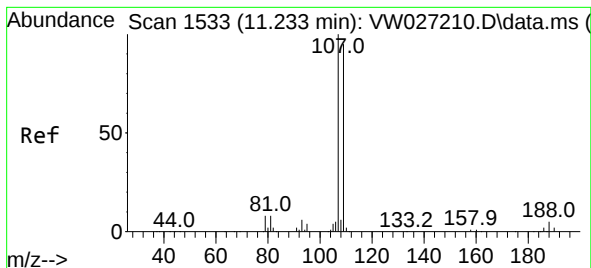
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#49
Dibromochloromethane
Concen: 1.119 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

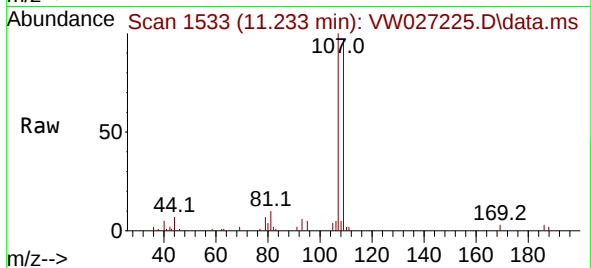
Tgt Ion:129 Resp: 9861
Ion Ratio Lower Upper
129 100
127 64.8 54.2 100.6





#50
1,2-Dibromoethane
Concen: 1.192 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

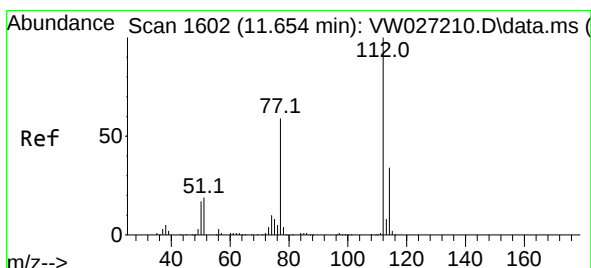
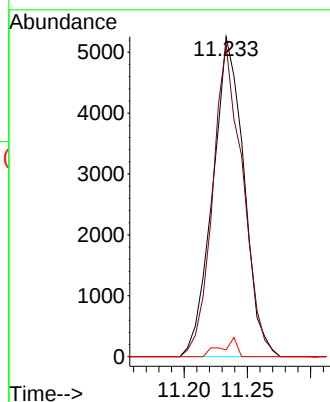
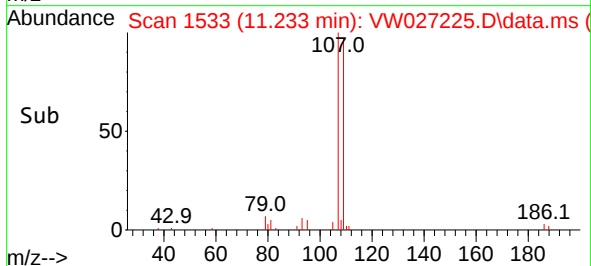
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



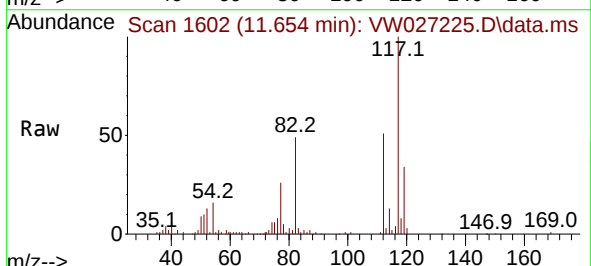
Tgt Ion:107 Resp: 8980
Ion Ratio Lower Upper
107 100
109 97.4 68.2 126.6
188 2.2 2.6 4.0

Manual Integrations
APPROVED

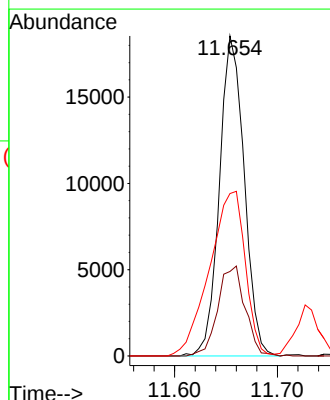
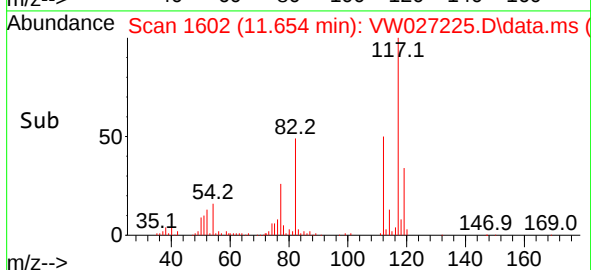
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

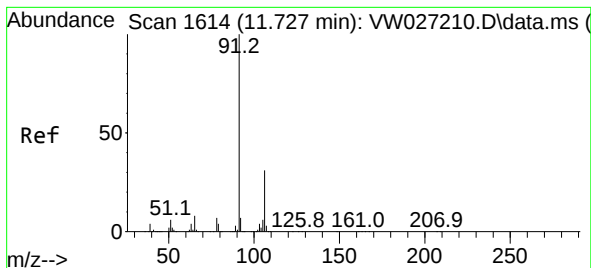


#51
Chlorobenzene
Concen: 1.045 ug/L
RT: 11.654 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15



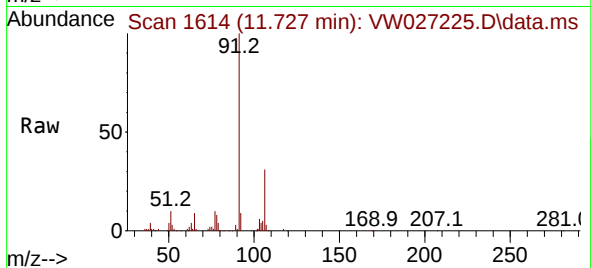
Tgt Ion:112 Resp: 31019
Ion Ratio Lower Upper
112 100
114 26.4 21.9 40.7
77 50.7 47.4 71.0





#52
Ethylbenzene
Concen: 0.933 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

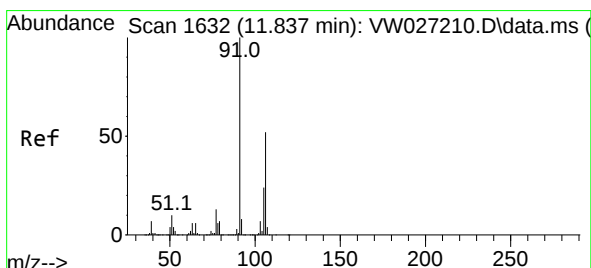
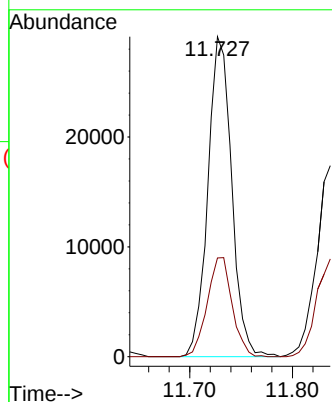
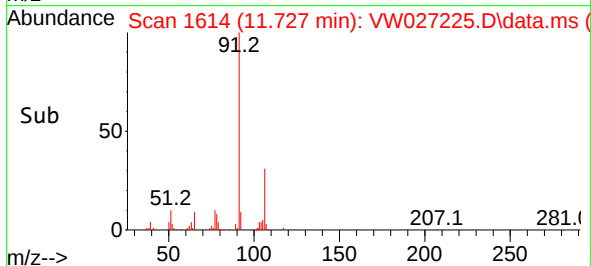
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion: 91 Resp: 4688
Ion Ratio Lower Upper
91 100
106 30.9 21.8 40.6

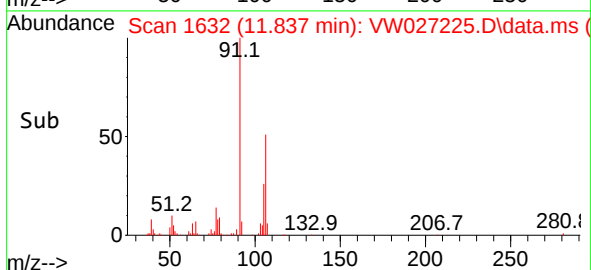
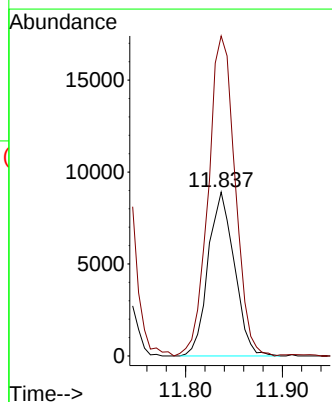
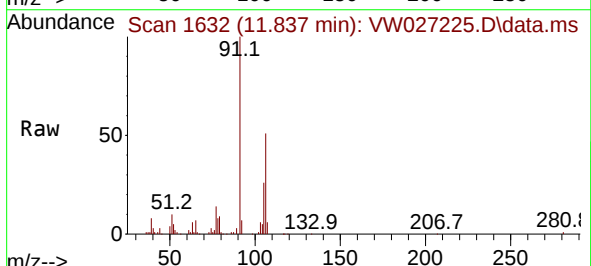
Manual Integrations
APPROVED

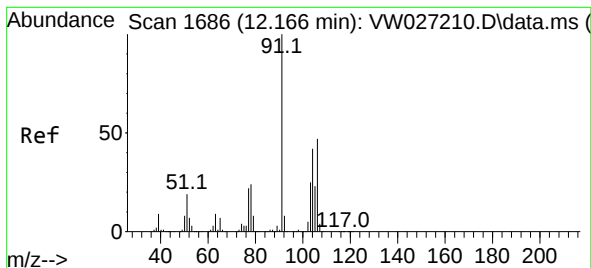
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#53
m,p-Xylene
Concen: 0.873 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion:106 Resp: 16818
Ion Ratio Lower Upper
106 100
91 195.4 145.9 270.9





#54

o-Xylene

Concen: 0.837 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-QT4-2023-08

Tgt Ion:106 Resp: 1507

Ion Ratio Lower Upper

106 100

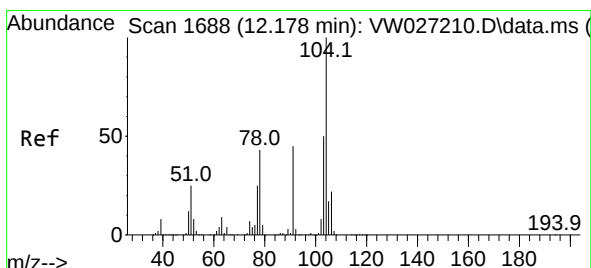
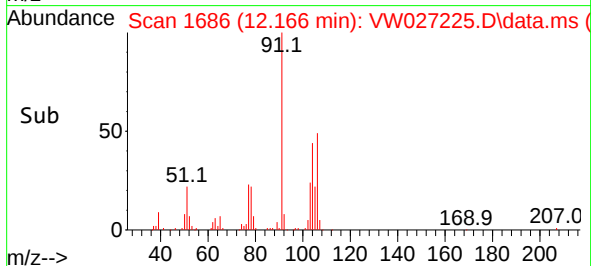
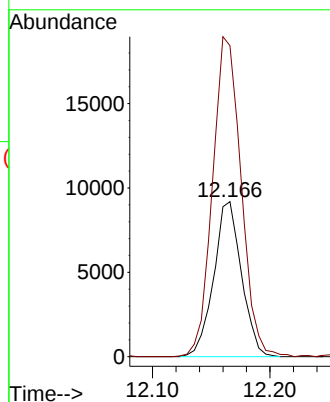
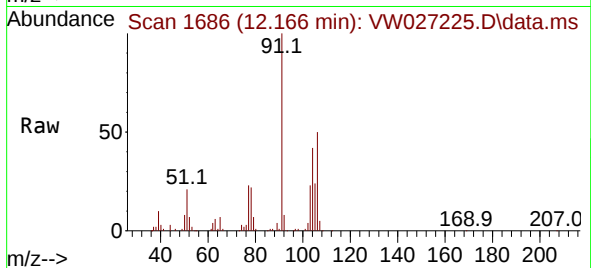
91 200.7 149.5 277.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#55

Styrene

Concen: 0.818 ug/L

RT: 12.184 min Scan# 1689

Delta R.T. 0.006 min

Lab File: VW027225.D

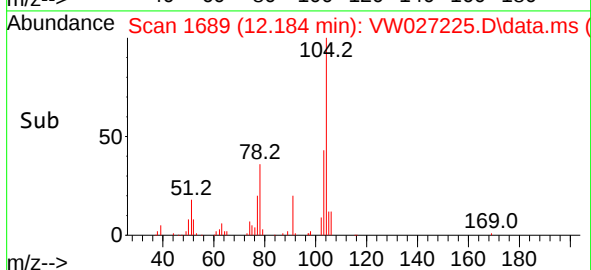
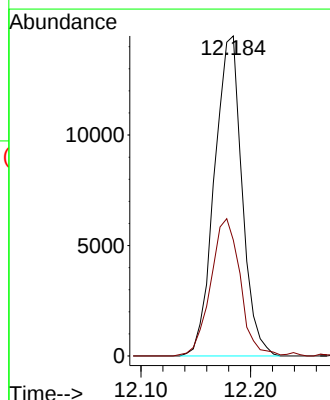
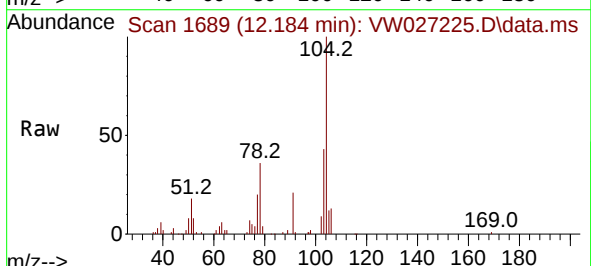
Acq: 04 Oct 2023 18:15

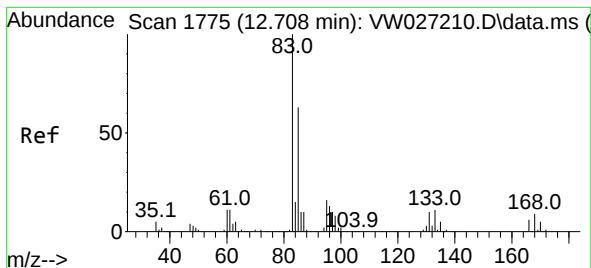
Tgt Ion:104 Resp: 25339

Ion Ratio Lower Upper

104 100

78 36.2 30.1 55.9





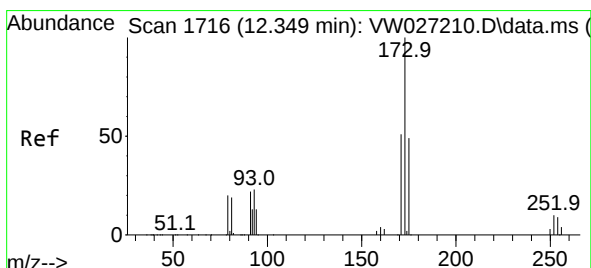
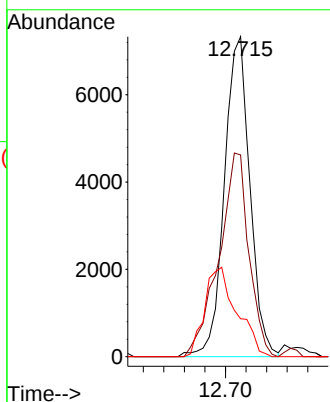
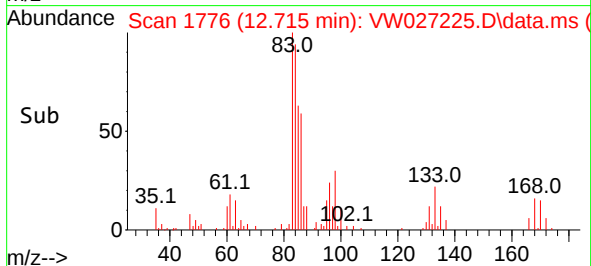
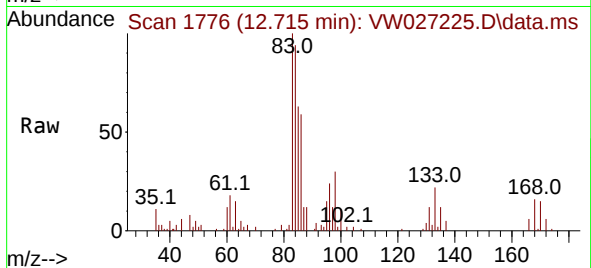
#57
1,1,2,2-Tetrachloroethane
Concen: 1.299 ug/L
RT: 12.715 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

Tgt Ion: 83 Resp: 1265
Ion Ratio Lower Upper
83 100
85 63.0 43.5 80.7
131 11.8 7.6 11.4

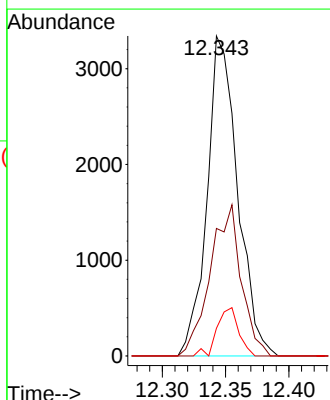
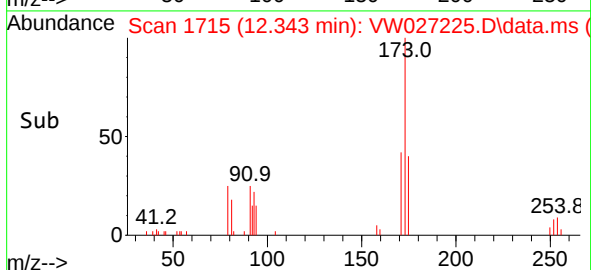
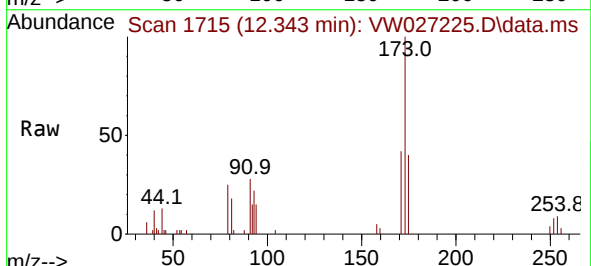
Manual Integrations
APPROVED

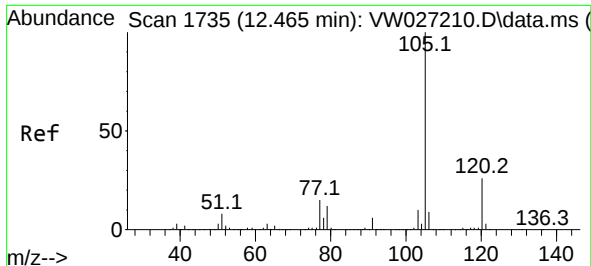
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#59
Bromoform
Concen: 1.111 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

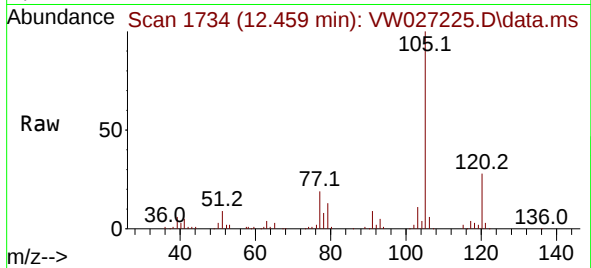
Tgt Ion:173 Resp: 5620
Ion Ratio Lower Upper
173 100
175 0.0 37.1 55.7#
254 0.5 7.2 10.8#





#60
Isopropylbenzene
Concen: 0.832 ug/L
RT: 12.459 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

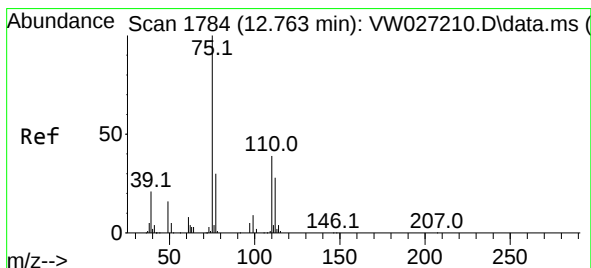
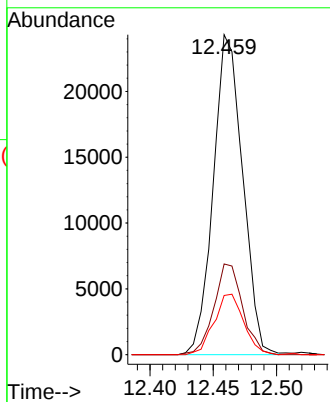
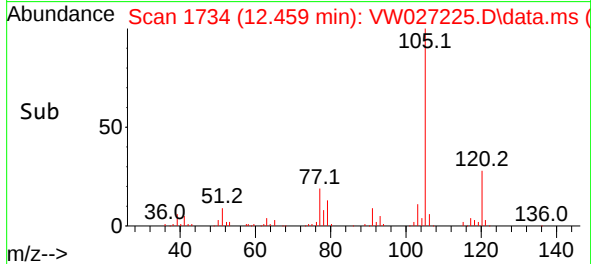
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



Tgt Ion:105 Resp: 39244
Ion Ratio Lower Upper
105 100
120 27.7 21.0 31.6
77 19.1 12.5 18.7

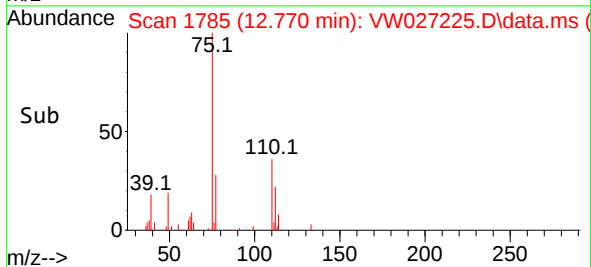
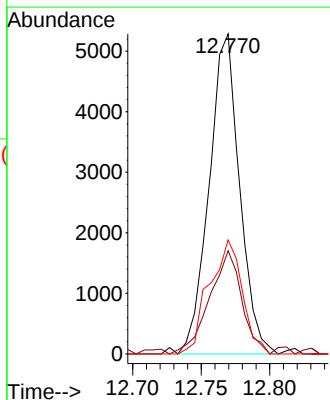
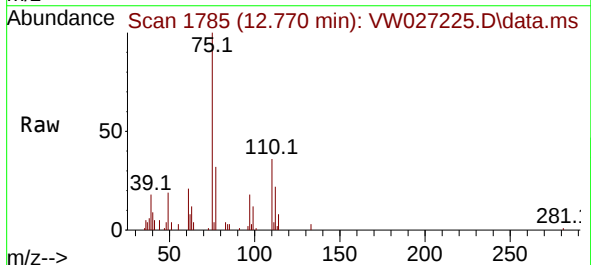
Manual Integrations
APPROVED

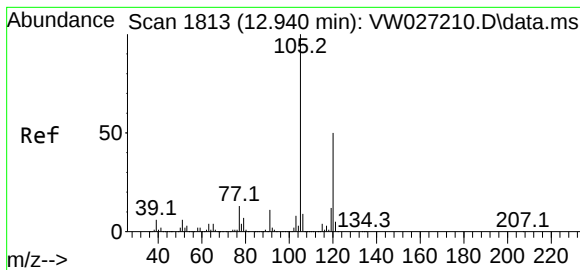
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#61
1,2,3-Trichloropropane
Concen: 1.246 ug/L
RT: 12.770 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

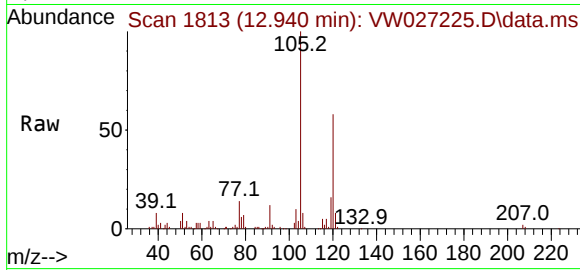
Tgt Ion: 75 Resp: 8168
Ion Ratio Lower Upper
75 100
77 34.0 26.2 39.2
110 38.6 31.2 46.8





#62
1,3,5-Trimethylbenzene
Concen: 0.785 ug/L
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

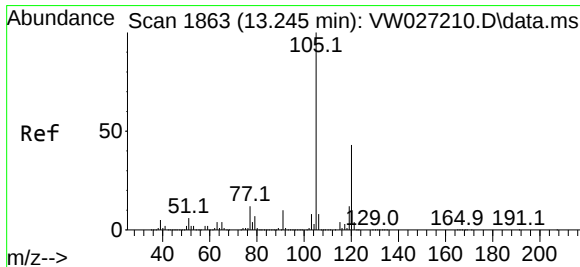
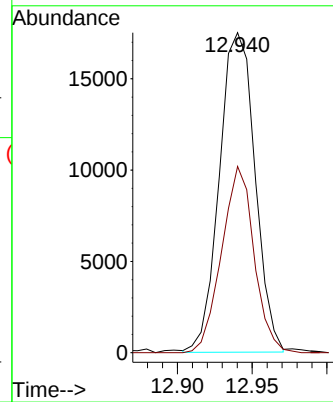
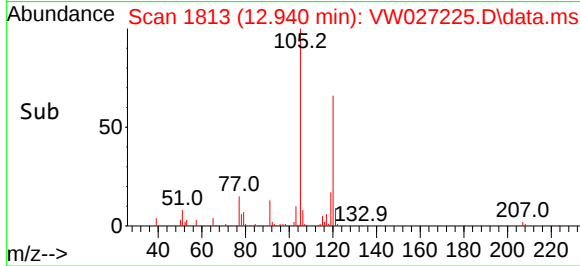
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08



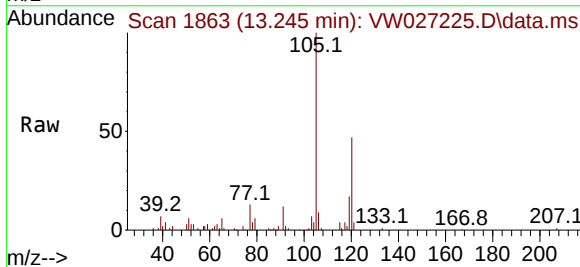
Tgt Ion:105 Resp: 29009
Ion Ratio Lower Upper
105 100
120 53.1 40.8 61.2

Manual Integrations
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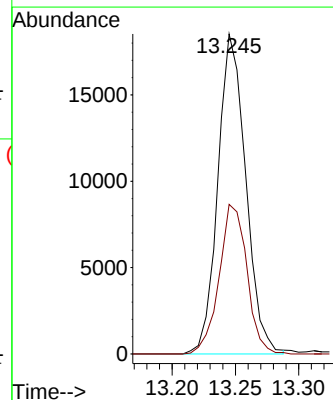
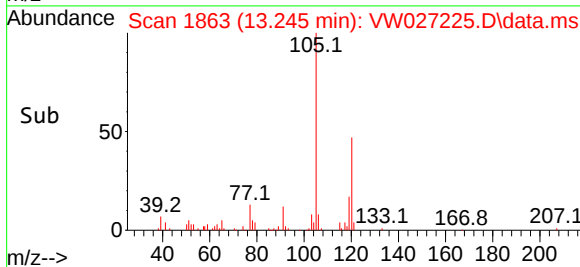
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

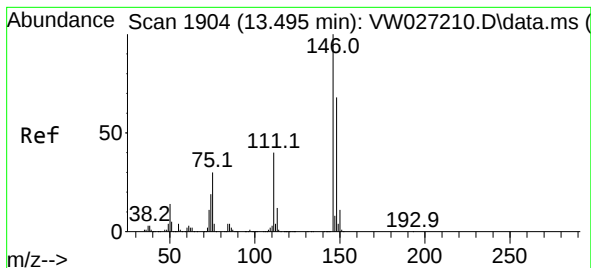


#63
1,2,4-Trimethylbenzene
Concen: 0.783 ug/L
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15



Tgt Ion:105 Resp: 28362
Ion Ratio Lower Upper
105 100
120 46.6 36.8 55.2





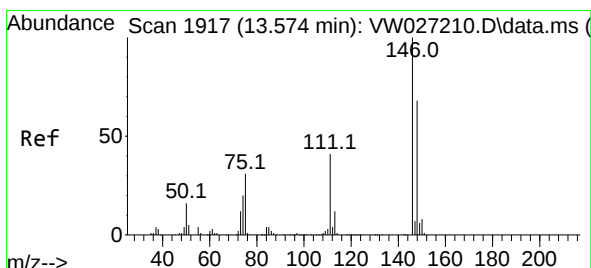
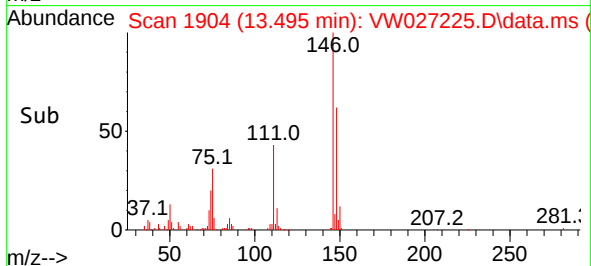
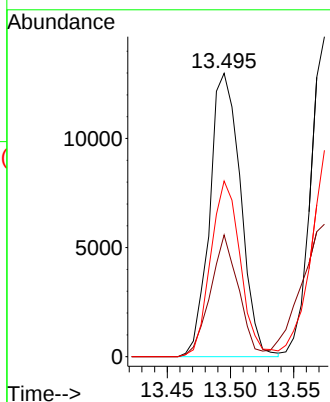
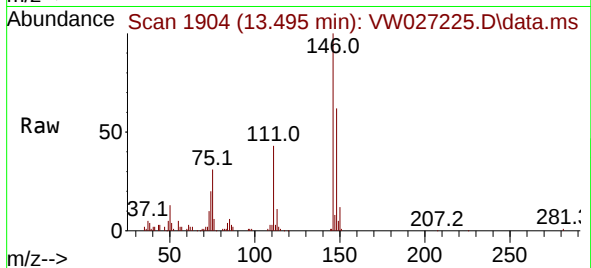
#64
1,3-Dichlorobenzene
Concen: 1.014 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

Tgt Ion:146 Resp: 22069
Ion Ratio Lower Upper
146 100
111 43.0 26.9 50.1
148 62.0 43.3 80.5

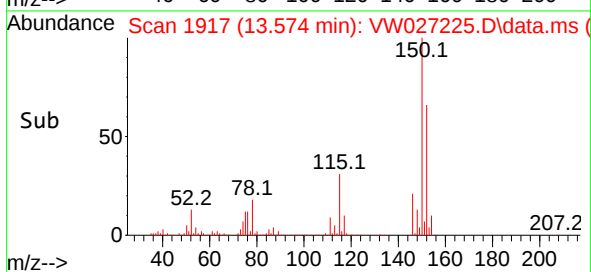
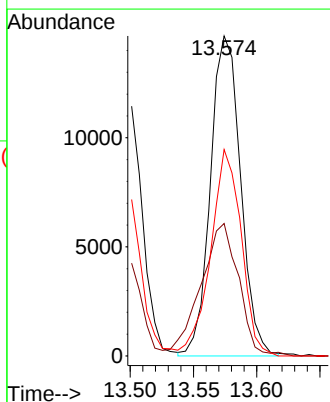
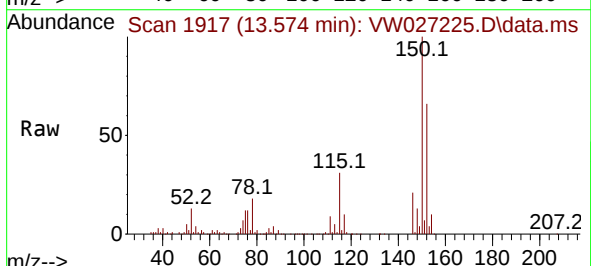
Manual Integrations
APPROVED

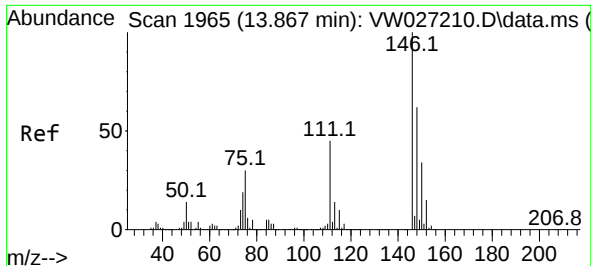
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#65
1,4-Dichlorobenzene
Concen: 1.112 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion:146 Resp: 24317
Ion Ratio Lower Upper
146 100
111 41.4 26.9 50.1
148 64.5 43.9 81.5





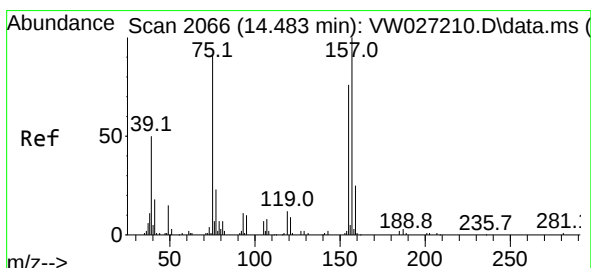
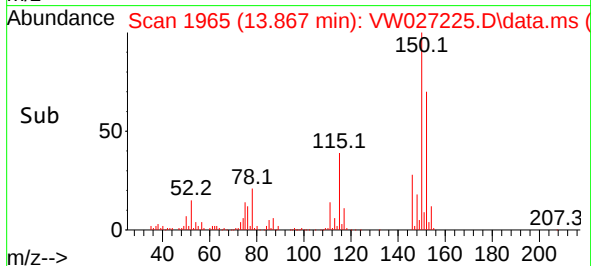
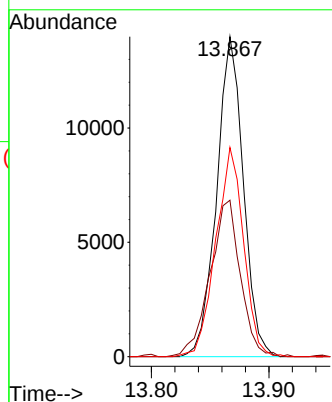
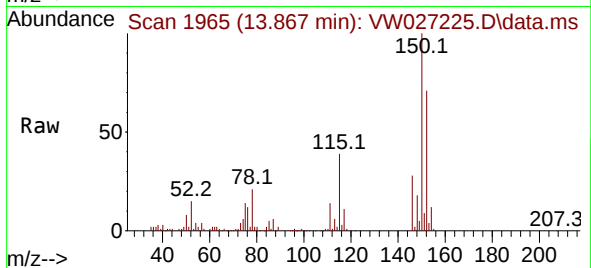
#67
1,2-Dichlorobenzene
Concen: 1.158 ug/L
RT: 13.867 min Scan# 1965
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-QT4-2023-08

Tgt Ion:146 Resp: 2210
Ion Ratio Lower Upper
146 100
111 48.9 35.6 53.4
148 65.3 58.4 87.6

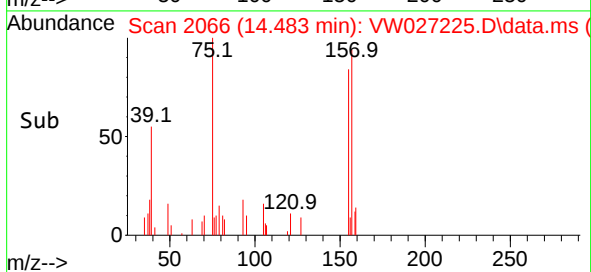
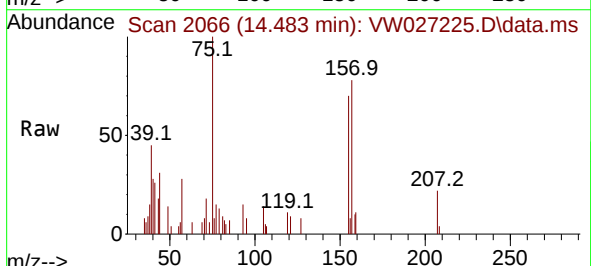
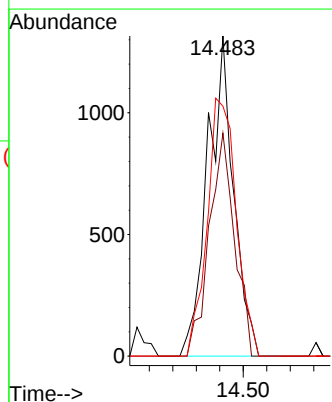
Manual Integrations
APPROVED

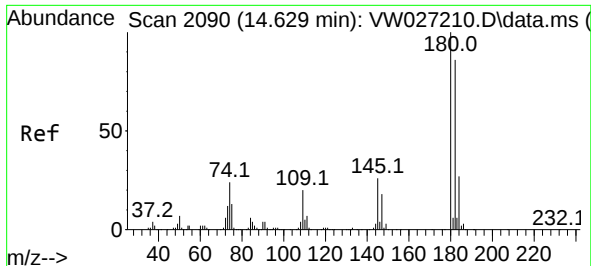
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#68
1,2-Dibromo-3-chloropropane
Concen: 1.436 ug/L
RT: 14.483 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion: 75 Resp: 2017
Ion Ratio Lower Upper
75 100
155 69.6 56.5 84.7
157 78.0 75.9 113.9





#69

1,3,5-Trichlorobenzene

Concen: 1.143 ug/L

RT: 14.623 min Scan# 2090

Delta R.T. -0.006 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Instrument :

MSVOA_W

ClientSampleId :

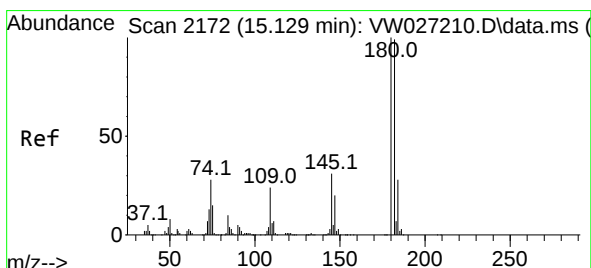
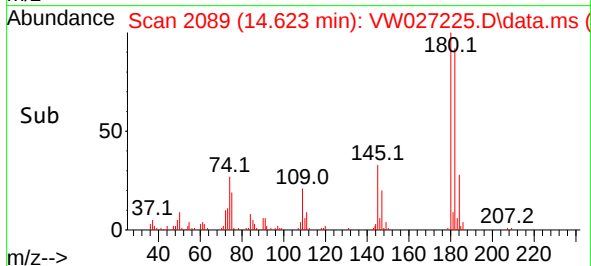
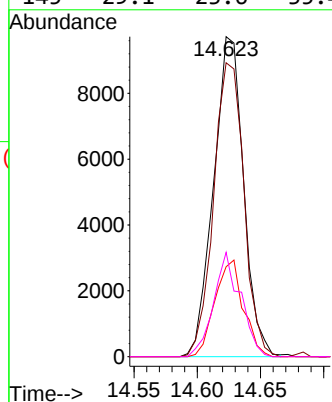
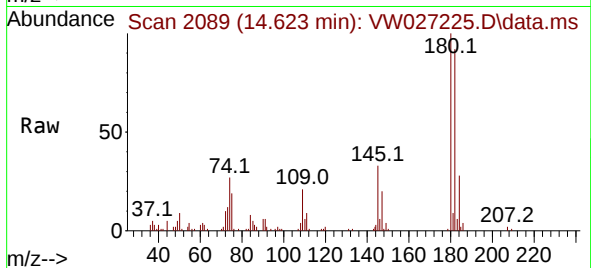
MDL-SOIL-QT4-2023-08

Tgt Ion:	180	Resp:	1602
Ion Ratio	Lower	Upper	
180	100		
182	92.7	70.2	105.2
184	28.6	24.6	37.0
145	29.1	23.6	35.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#70

1,2,4-trichlorobenzene

Concen: 1.100 ug/L

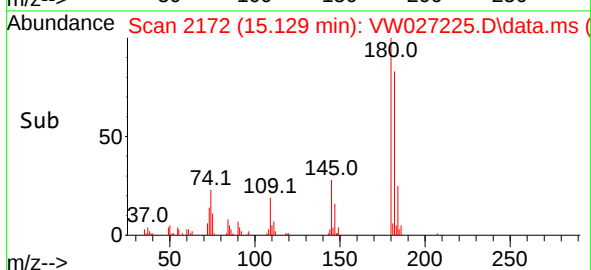
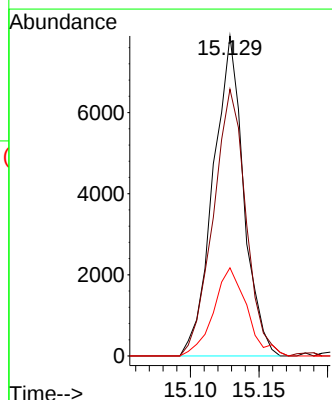
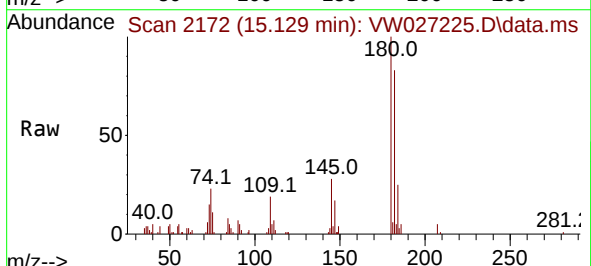
RT: 15.129 min Scan# 2172

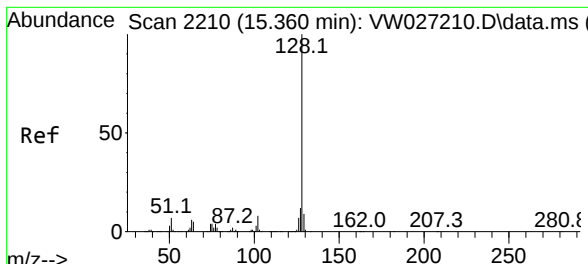
Delta R.T. 0.000 min

Lab File: VW027225.D

Acq: 04 Oct 2023 18:15

Tgt Ion:	180	Resp:	12167
Ion Ratio	Lower	Upper	
180	100		
182	89.4	77.4	116.2
145	30.2	24.3	36.5





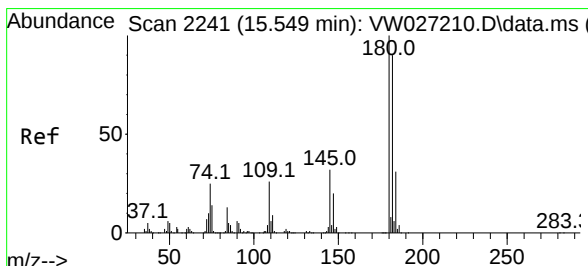
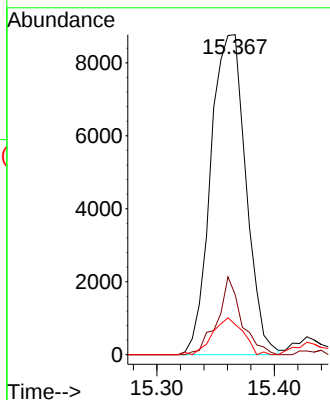
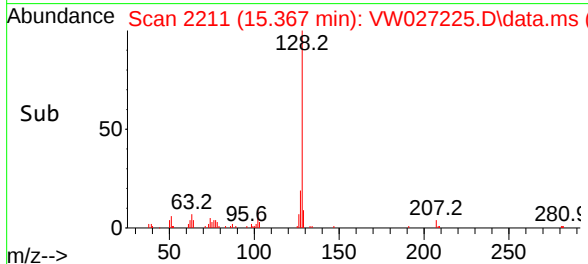
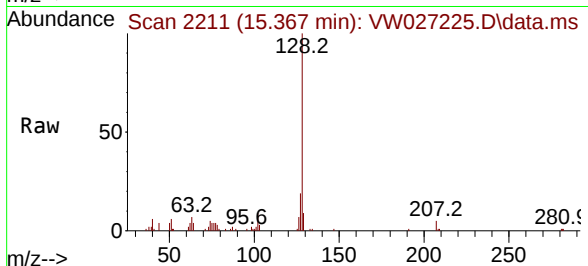
#71
Naphthalene
Concen: 0.935 ug/L
RT: 15.367 min Scan# 2211
Delta R.T. 0.006 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Instrument : MSVOA_W
ClientSampleId : MDL-SOIL-QT4-2023-08

Tgt Ion:	128	Resp:	18238
Ion Ratio	Lower	Upper	
128	100		
127	16.6	10.4	15.6
129	9.7	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#72
1,2,3-Trichlorobenzene
Concen: 1.073 ug/L
RT: 15.550 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW027225.D
Acq: 04 Oct 2023 18:15

Tgt Ion:	180	Resp:	10536
Ion Ratio	Lower	Upper	
180	100		
182	97.0	74.7	112.1
145	30.2	26.4	39.6

