

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
 Data File : VY014668.D
 Acq On : 17 Jul 2023 13:32
 Operator : SY/MD
 Sample : 03572-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2023

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/18/2023
 Supervised By : Mahesh Dadoda 07/18/2023

Quant Time: Jul 18 09:24:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 18 09:23:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.783	168	288002	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	473543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	417624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	205981	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	165729	50.498	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.000%			
35) Dibromofluoromethane	7.710	113	155532	51.595	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.200%			
50) Toluene-d8	10.179	98	557519	50.165	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.340%			
62) 4-Bromofluorobenzene	12.477	95	208959	49.035	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.080%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.900	85	10158	4.329	ug/l	91
3) Chloromethane	2.107	50	12928	4.901	ug/l	91
4) Vinyl Chloride	2.241	62	13425	4.554	ug/l	97
5) Bromomethane	2.643	94	11087	5.691	ug/l	88
6) Chloroethane	2.784	64	8142	4.422	ug/l	97
7) Trichlorofluoromethane	3.113	101	19849	4.009	ug/l	100
8) Diethyl Ether	3.527	74	7295	3.960	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.893	101	11589	3.819	ug/l	94
10) Methyl Iodide	4.076	142	10727	3.777	ug/l	97
11) Tert butyl alcohol	4.923	59	47474	65.717	ug/l #	97
12) 1,1-Dichloroethene	3.857	96	11168	3.938	ug/l	83
13) Acrolein	3.722	56	6699	19.529	ug/l	100
14) Allyl chloride	4.472	41	18221	3.618	ug/l	94
15) Acrylonitrile	5.155	53	21456	21.123	ug/l	96
16) Acetone	3.942	43	21947	21.103	ug/l	95
17) Carbon Disulfide	4.186	76	30336	3.736	ug/l	97
18) Methyl Acetate	4.466	43	17373	4.353	ug/l	92
19) Methyl tert-butyl Ether	5.216	73	36577	3.970	ug/l	95
20) Methylene Chloride	4.710	84	16436	4.347	ug/l	88
21) trans-1,2-Dichloroethene	5.210	96	12638	3.927	ug/l	88
22) Diisopropyl ether	6.112	45	37969	3.709	ug/l	92
23) Vinyl Acetate	6.051	43	113868	18.586	ug/l	96
24) 1,1-Dichloroethane	6.009	63	21919	3.742	ug/l	98
25) 2-Butanone	6.984	43	37151	24.417	ug/l	99
26) 2,2-Dichloropropane	6.972	77	29953	5.365	ug/l	87
27) cis-1,2-Dichloroethene	6.984	96	14112	3.767	ug/l	79
28) Bromochloromethane	7.319	49	10431	4.135	ug/l #	14
29) Tetrahydrofuran	7.350	42	19431	20.740	ug/l	90
30) Chloroform	7.496	83	23852	3.949	ug/l	98
31) Cyclohexane	7.777	56	24536	4.504	ug/l #	70
32) 1,1,1-Trichloroethane	7.697	97	20571	3.784	ug/l	99
36) 1,1-Dichloropropene	7.911	75	18327	4.065	ug/l	98
37) Ethyl Acetate	7.069	43	13594	4.380	ug/l #	95
38) Carbon Tetrachloride	7.892	117	18529	3.888	ug/l	94
39) Methylcyclohexane	9.179	83	21525	3.665	ug/l	95
40) Benzene	8.155	78	49135	3.832	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.319	41	7024m	4.400	ug/l	
42) 1,2-Dichloroethane	8.234	62	15799	3.891	ug/l	92
43) Isopropyl Acetate	8.270	43	22031	3.726	ug/l #	94
44) Trichloroethene	8.935	130	13889	3.872	ug/l	99
45) 1,2-Dichloropropane	9.215	63	13092	3.911	ug/l	99
46) Dibromomethane	9.295	93	7806	3.843	ug/l	97
47) Bromodichloromethane	9.496	83	18278	3.818	ug/l	99
48) Methyl methacrylate	9.295	41	10586	3.979	ug/l	94
49) 1,4-Dioxane	9.289	88	2974	89.803	ug/l #	55
51) 4-Methyl-2-Pentanone	10.063	43	64710	20.845	ug/l	93
52) Toluene	10.240	92	32295	3.936	ug/l	91
53) t-1,3-Dichloropropene	10.459	75	19565	3.737	ug/l #	88
54) cis-1,3-Dichloropropene	9.923	75	21565	3.787	ug/l	93
55) 1,1,2-Trichloroethane	10.642	97	11324	4.003	ug/l	94
56) Ethyl methacrylate	10.508	69	16667	3.858	ug/l	92
57) 1,3-Dichloropropane	10.788	76	18910	3.875	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.776	63	43398	21.562	ug/l	92
59) 2-Hexanone	10.831	43	45421	20.064	ug/l	92
60) Dibromochloromethane	10.983	129	13821	3.985	ug/l	99
61) 1,2-Dibromoethane	11.081	107	11513	4.079	ug/l	98
64) Tetrachloroethene	10.715	164	14105	4.199	ug/l	95
65) Chlorobenzene	11.514	112	35472	3.986	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.587	131	12872	3.836	ug/l	96
67) Ethyl Benzene	11.587	91	61579	3.832	ug/l	95
68) m/p-Xylenes	11.697	106	47504	7.745	ug/l	94
69) o-Xylene	12.026	106	23463	3.927	ug/l	96
70) Styrene	12.038	104	37697	3.744	ug/l	98
71) Bromoform	12.203	173	9163	4.029	ug/l #	100
73) Isopropylbenzene	12.325	105	60575	3.756	ug/l	100
74) N-amyl acetate	12.142	43	19719	3.651	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.581	83	14147	3.846	ug/l	97
76) 1,2,3-Trichloropropane	12.629	75	12482m	4.798	ug/l	
77) Bromobenzene	12.605	156	14016	3.807	ug/l	92
78) n-propylbenzene	12.666	91	71369	3.672	ug/l	99
79) 2-Chlorotoluene	12.751	91	40542	3.622	ug/l	99
80) 1,3,5-Trimethylbenzene	12.806	105	51427	3.818	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.373	75	4823	3.590	ug/l	99
82) 4-Chlorotoluene	12.849	91	42663	3.701	ug/l	100
83) tert-Butylbenzene	13.068	119	45342	3.795	ug/l	99
84) 1,2,4-Trimethylbenzene	13.117	105	50143	3.793	ug/l	99
85) sec-Butylbenzene	13.251	105	65787	3.753	ug/l	100
86) p-Isopropyltoluene	13.367	119	54258	3.791	ug/l	100
87) 1,3-Dichlorobenzene	13.361	146	28150	3.929	ug/l	99
88) 1,4-Dichlorobenzene	13.446	146	28086	3.912	ug/l	91
89) n-Butylbenzene	13.696	91	50350	3.616	ug/l	96
90) Hexachloroethane	13.958	117	11017	3.748	ug/l	88
91) 1,2-Dichlorobenzene	13.733	146	25195	3.838	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.349	75	3055	4.343	ug/l	98
93) 1,2,4-Trichlorobenzene	15.001	180	15988	3.837	ug/l	99
94) Hexachlorobutadiene	15.111	225	8943	3.905	ug/l	99
95) Naphthalene	15.233	128	38341	3.949	ug/l	99
96) 1,2,3-Trichlorobenzene	15.422	180	14178	3.828	ug/l	97

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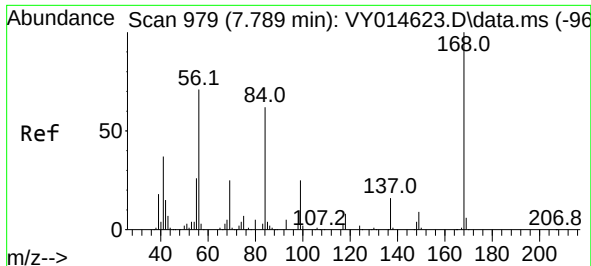
Manual Integrations
APPROVED

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Quant Title : SW846 8260
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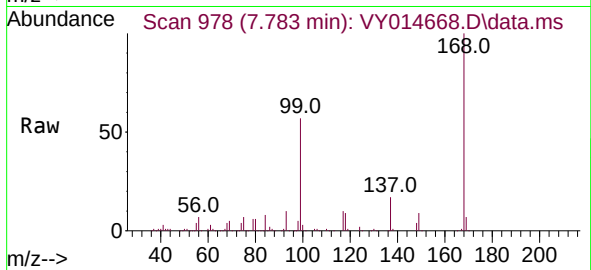
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
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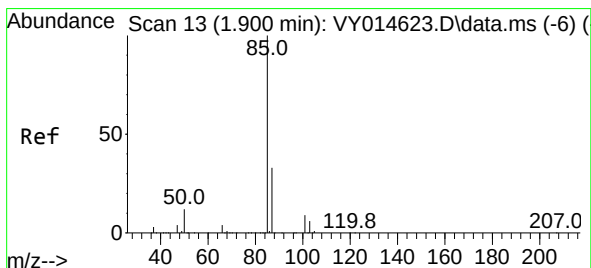
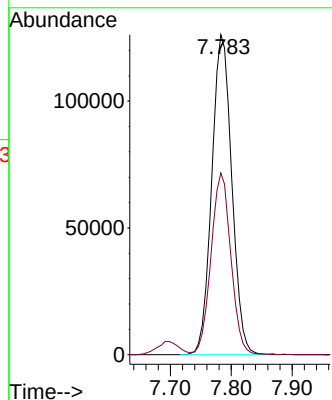
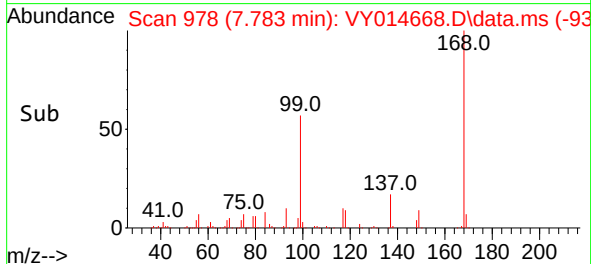
Instrument :
MSVOA_Y
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MDL-SOIL-03-QT3-2023



Tgt Ion:168 Resp: 28800
Ion Ratio Lower Upper
168 100
99 56.7 43.4 65.0

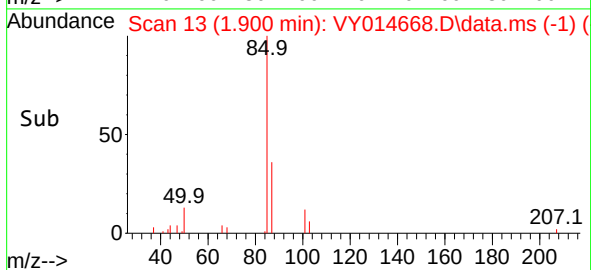
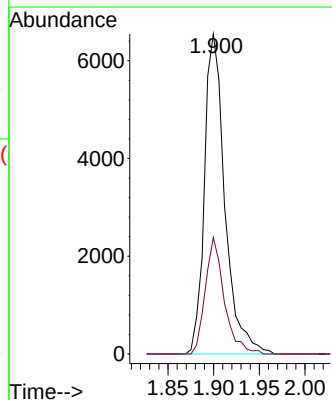
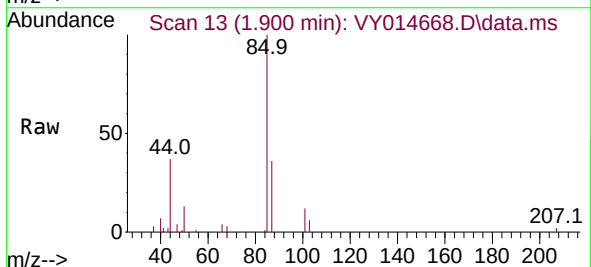
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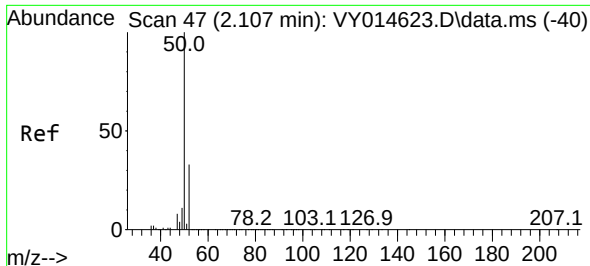
Reviewed By :John Carlone 07/18/2023
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#2
Dichlorodifluoromethane
Concen: 4.329 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

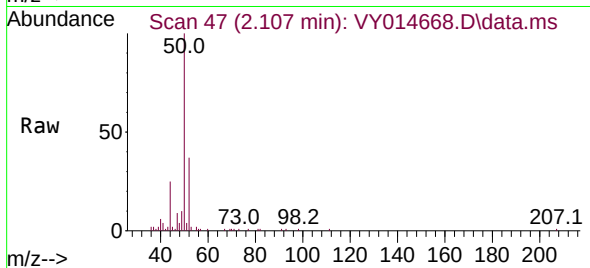
Tgt Ion: 85 Resp: 10158
Ion Ratio Lower Upper
85 100
87 36.4 15.6 46.8





#3
Chloromethane
Concen: 4.901 ug/l
RT: 2.107 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

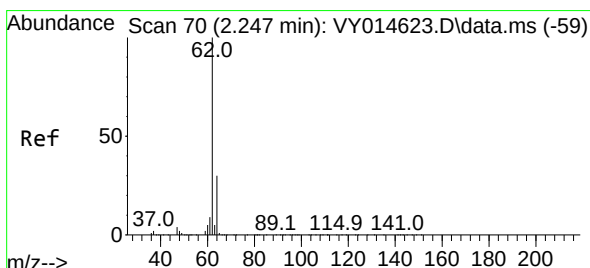
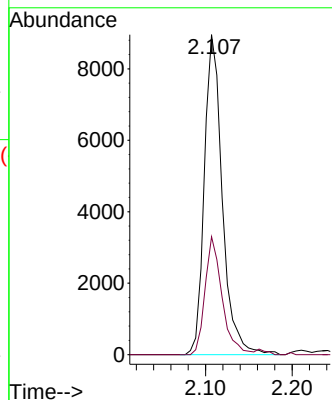
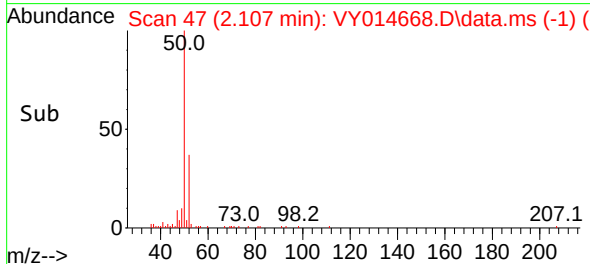
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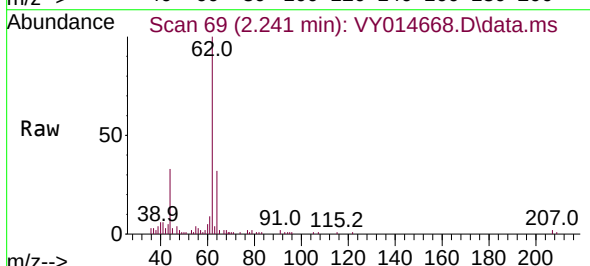
Tgt Ion: 50 Resp: 12928
Ion Ratio Lower Upper
50 100
52 36.9 25.4 38.2

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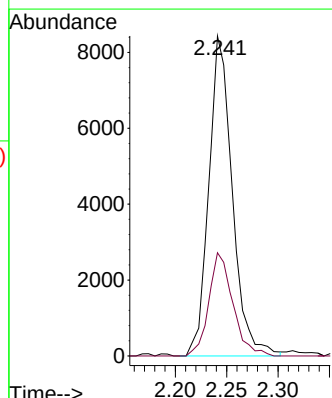
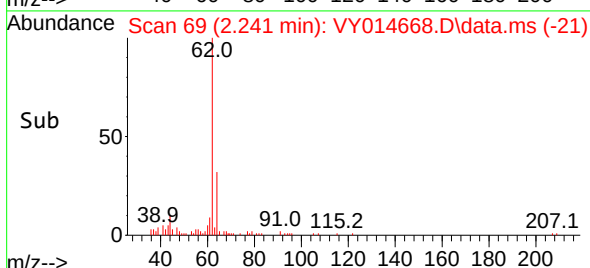
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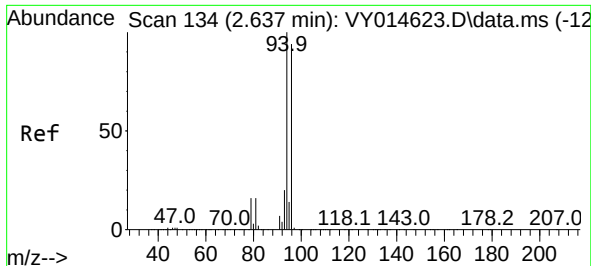


#4
Vinyl Chloride
Concen: 4.554 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



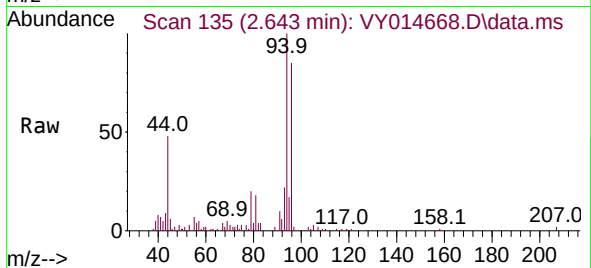
Tgt Ion: 62 Resp: 13425
Ion Ratio Lower Upper
62 100
64 32.2 24.3 36.5





#5
Bromomethane
Concen: 5.691 ug/l
RT: 2.643 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

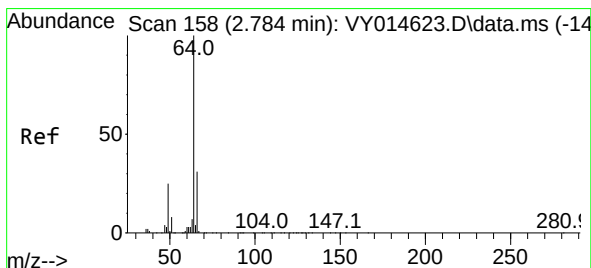
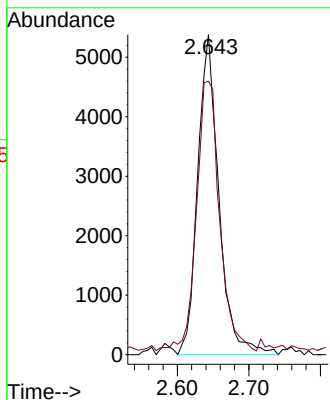
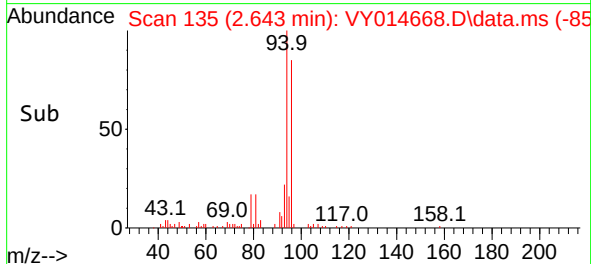
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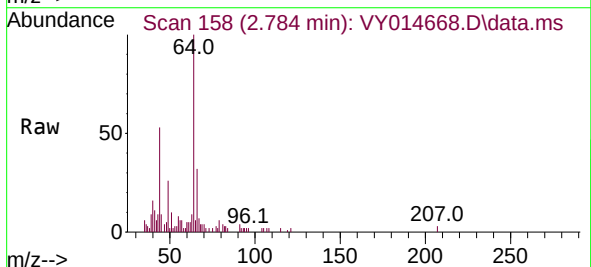
Tgt Ion: 94 Resp: 1108
Ion Ratio Lower Upper
94 100
96 82.9 75.8 113.6

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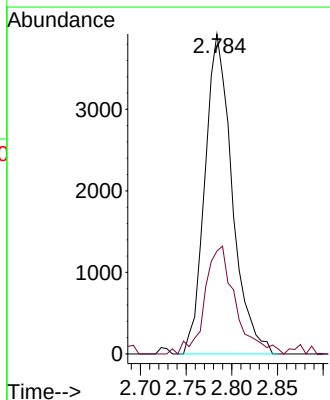
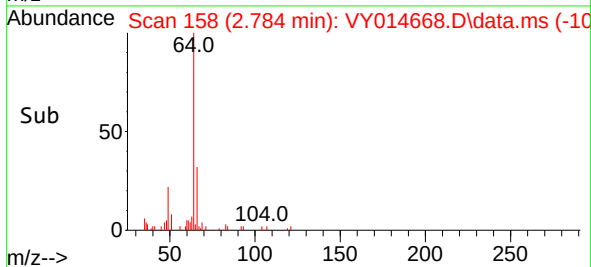
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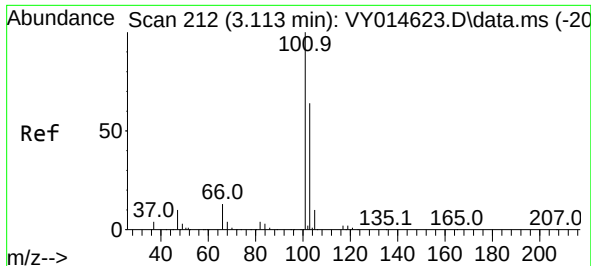


#6
Chloroethane
Concen: 4.422 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014668.D
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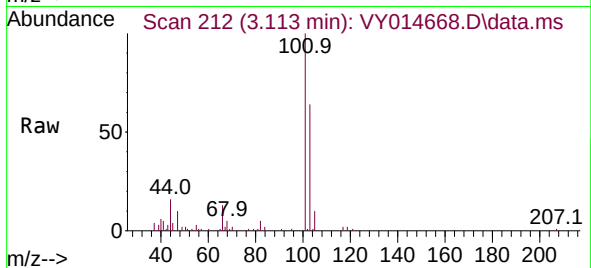
Tgt Ion: 64 Resp: 8142
Ion Ratio Lower Upper
64 100
66 32.2 24.4 36.6





#7
Trichlorofluoromethane
Concen: 4.009 ug/l
RT: 3.113 min Scan# 212
Delta R.T. -0.000 min
Lab File: VY014668.D
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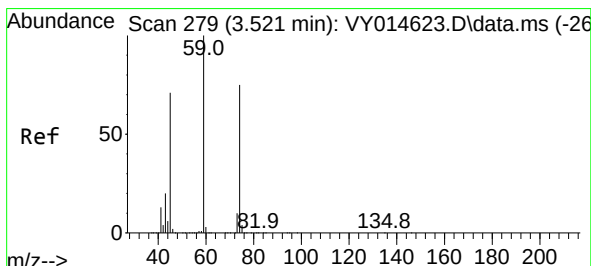
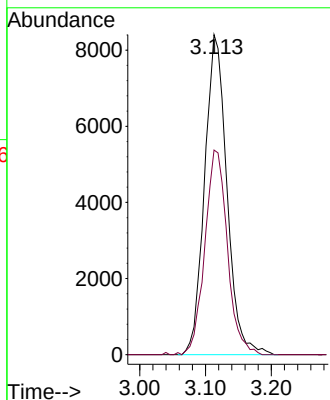
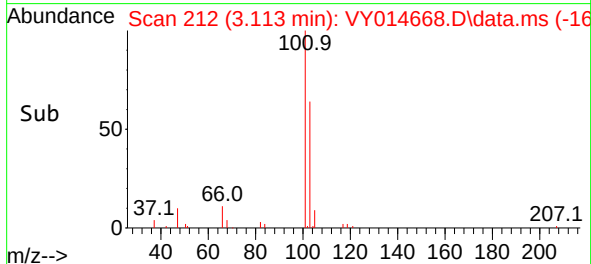
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion:101 Resp: 19849
Ion Ratio Lower Upper
101 100
103 63.9 51.4 77.0

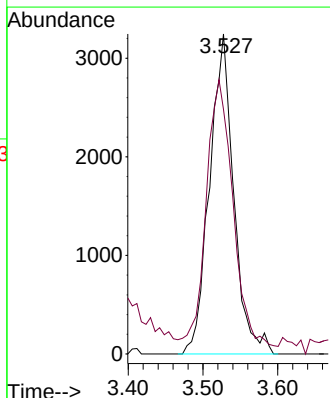
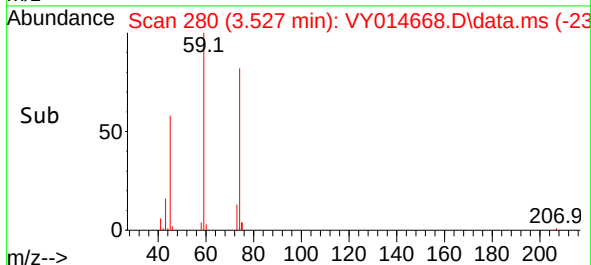
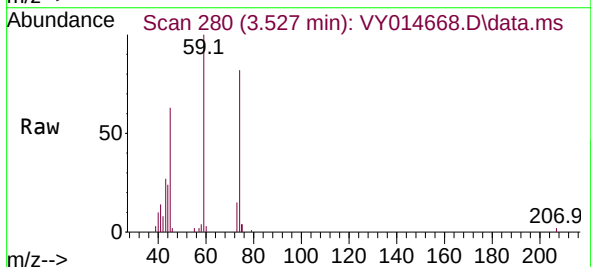
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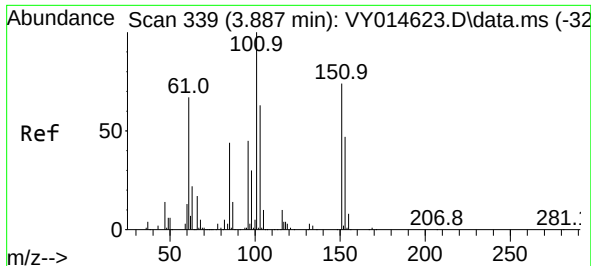
Reviewed By :John Carlone 07/18/2023
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#8
Diethyl Ether
Concen: 3.960 ug/l
RT: 3.527 min Scan# 280
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 74 Resp: 7295
Ion Ratio Lower Upper
74 100
45 91.6 51.5 154.5





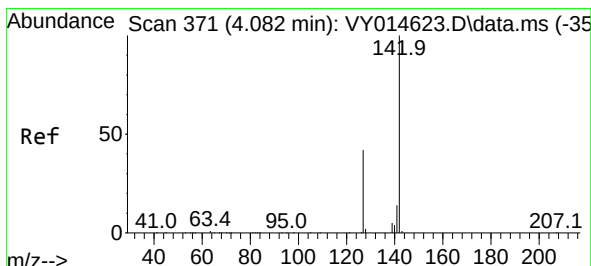
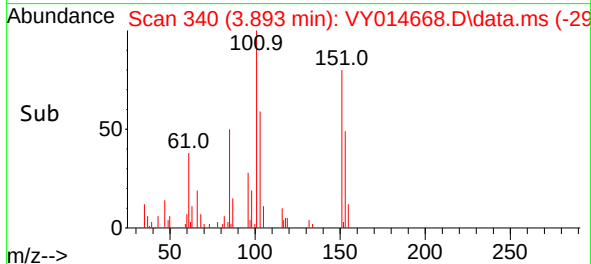
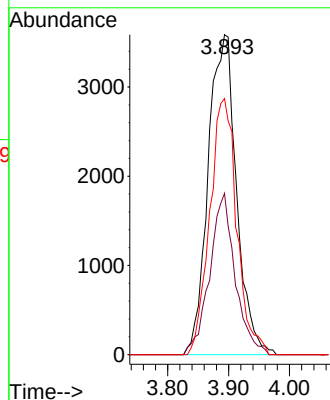
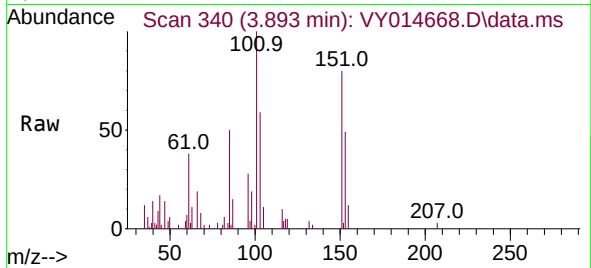
#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.819 ug/l
RT: 3.893 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:101 Resp: 11589
Ion Ratio Lower Upper
101 100
85 45.3 36.6 55.0
151 76.3 67.0 100.6

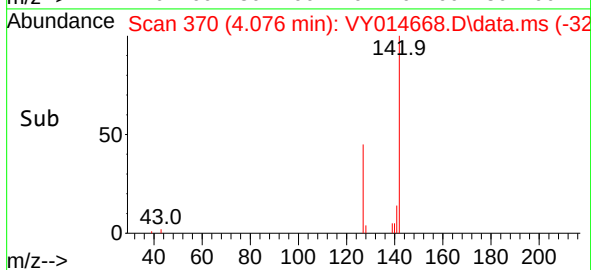
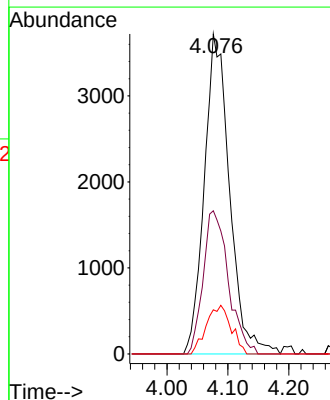
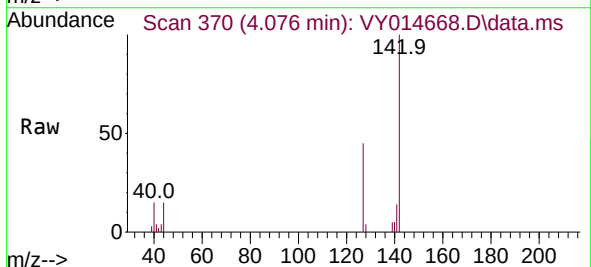
Manual Integrations
APPROVED

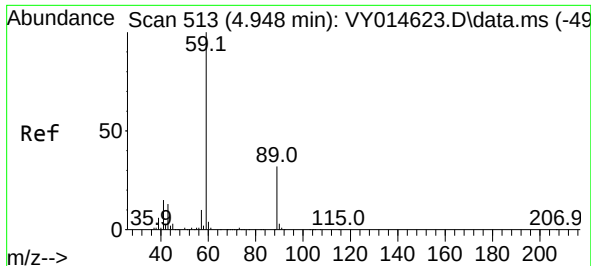
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#10
Methyl Iodide
Concen: 3.777 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

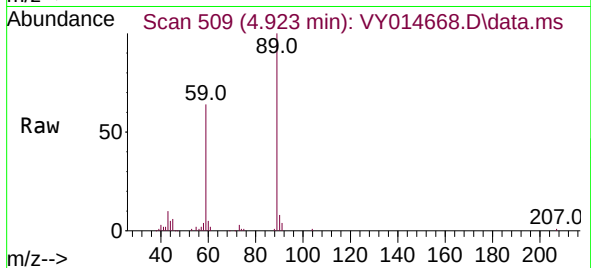
Tgt Ion:142 Resp: 10727
Ion Ratio Lower Upper
142 100
127 44.6 37.6 56.4
141 14.8 11.8 17.8





#11
Tert butyl alcohol
Concen: 65.717 ug/l
RT: 4.923 min Scan# 509
Delta R.T. -0.025 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

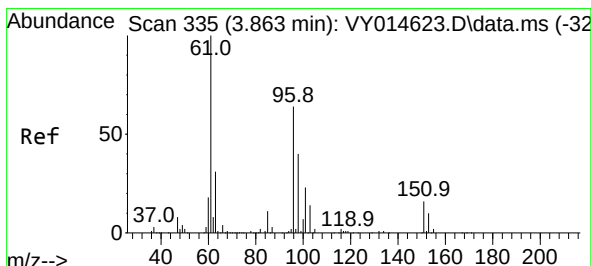
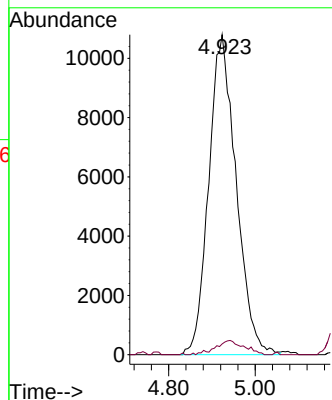
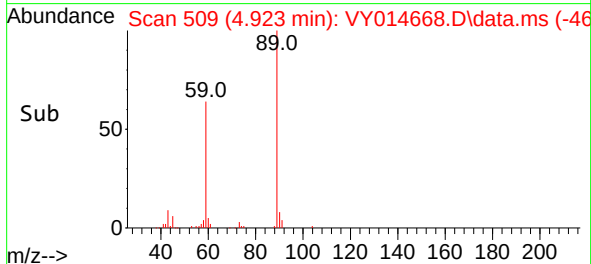
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



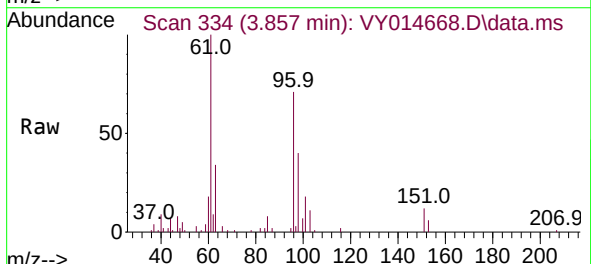
Tgt Ion: 59 Resp: 47474
Ion Ratio Lower Upper
59 100
57 4.6 3.0 4.4

Manual Integrations
APPROVED

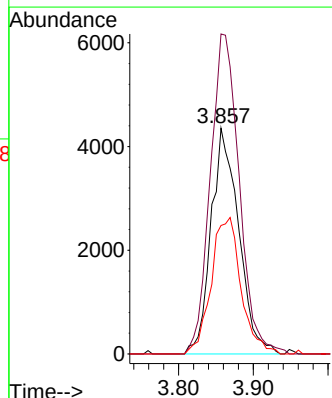
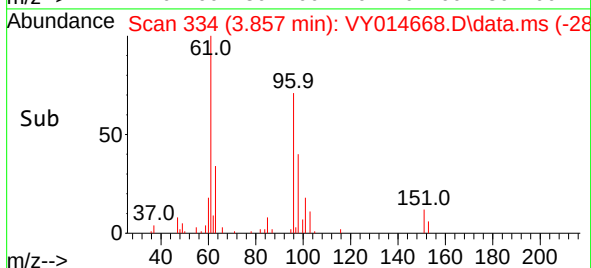
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

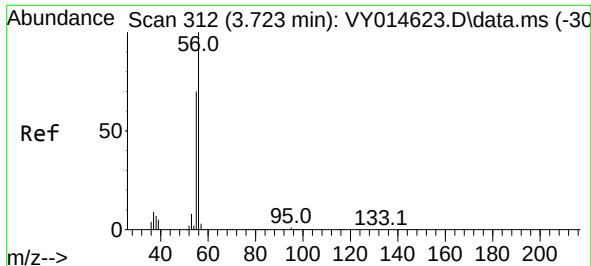


#12
1,1-Dichloroethene
Concen: 3.938 ug/l
RT: 3.857 min Scan# 334
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



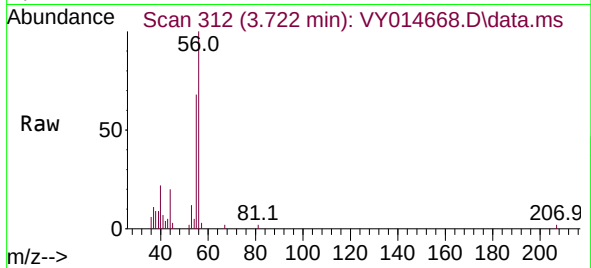
Tgt Ion: 96 Resp: 11168
Ion Ratio Lower Upper
96 100
61 141.7 136.4 204.6
98 56.9 49.4 74.2





#13
Acrolein
Concen: 19.529 ug/l
RT: 3.722 min Scan# 312
Delta R.T. -0.001 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

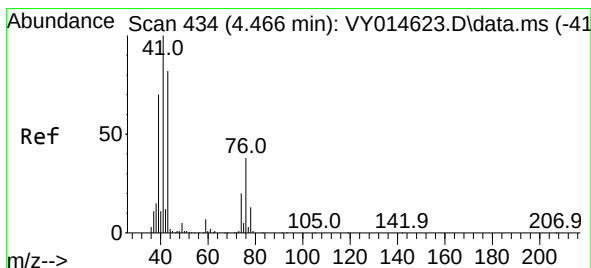
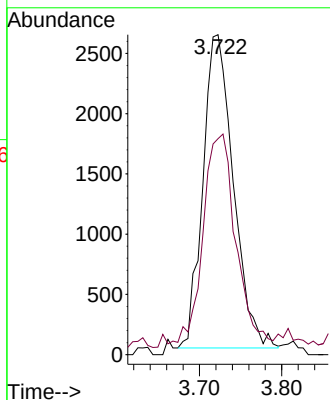
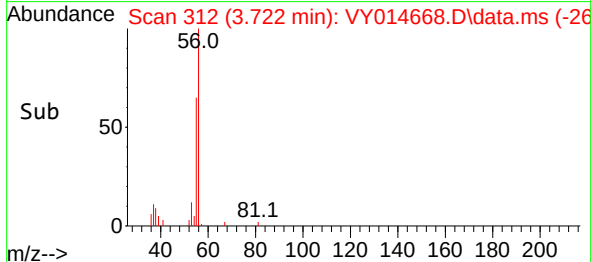
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 56 Resp: 6699
Ion Ratio Lower Upper
56 100
55 71.4 57.0 85.4

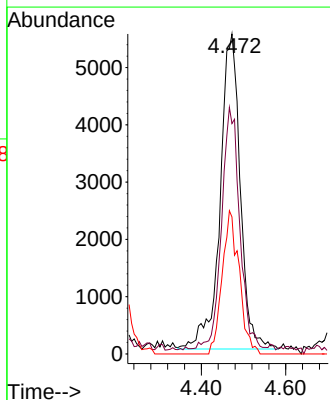
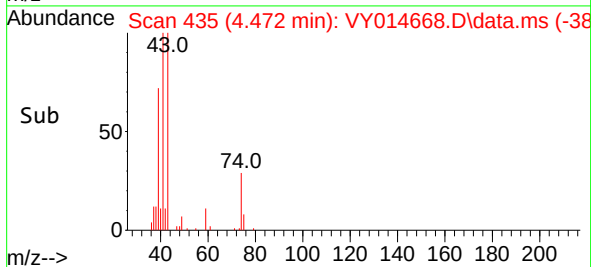
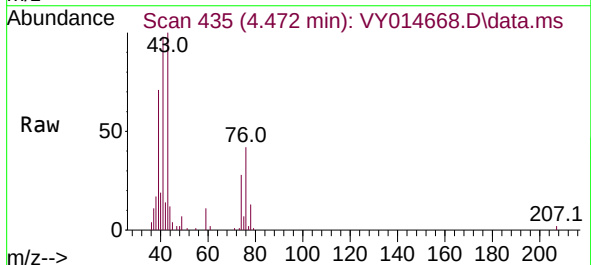
Manual Integrations
APPROVED

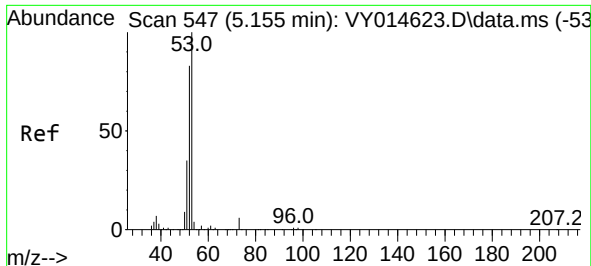
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#14
Allyl chloride
Concen: 3.618 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

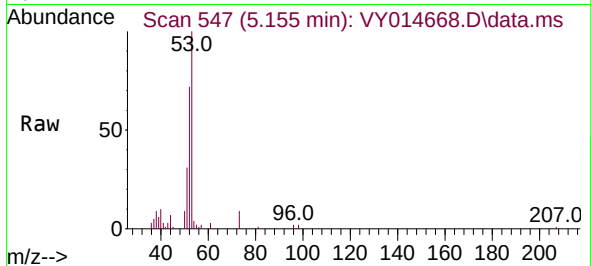
Tgt Ion: 41 Resp: 18221
Ion Ratio Lower Upper
41 100
39 68.5 58.0 87.0
76 38.4 27.4 41.2





#15
Acrylonitrile
Concen: 21.123 ug/l
RT: 5.155 min Scan# 547
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

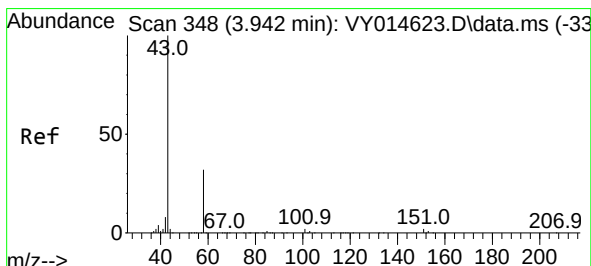
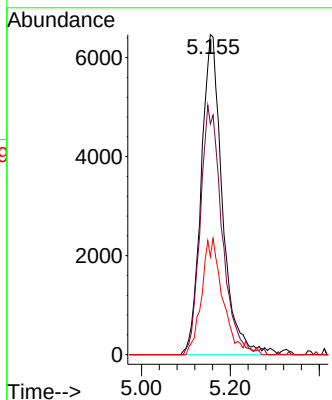
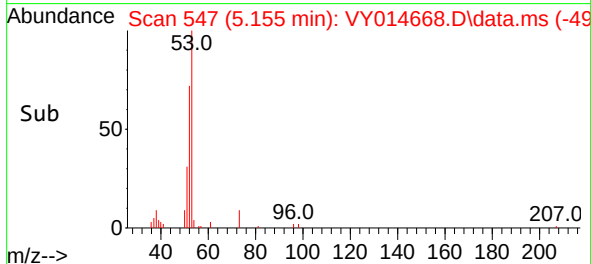
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 53 Resp: 21456
Ion Ratio Lower Upper
53 100
52 79.1 66.9 100.3
51 36.4 29.8 44.6

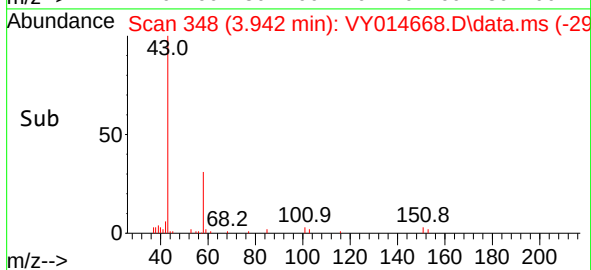
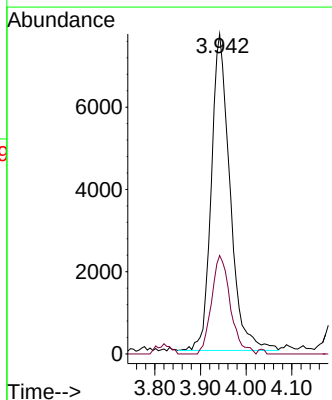
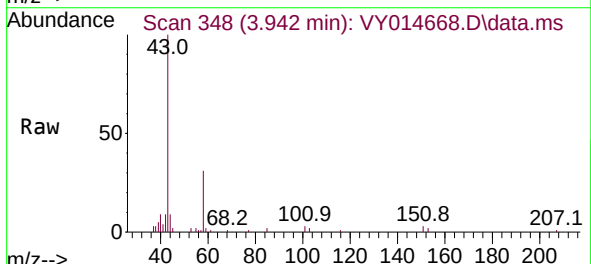
Manual Integrations
APPROVED

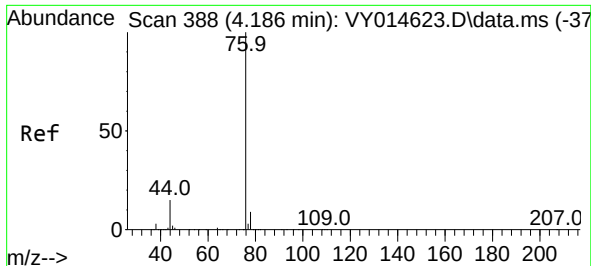
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#16
Acetone
Concen: 21.103 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

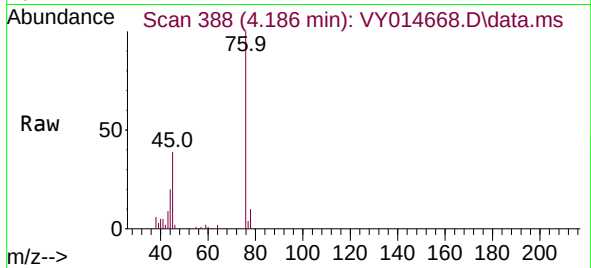
Tgt Ion: 43 Resp: 21947
Ion Ratio Lower Upper
43 100
58 31.1 22.7 34.1





#17
Carbon Disulfide
Concen: 3.736 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

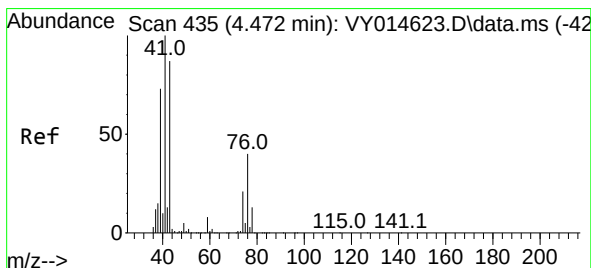
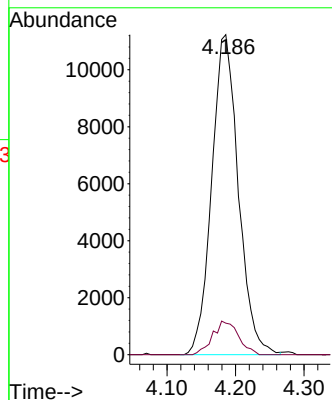
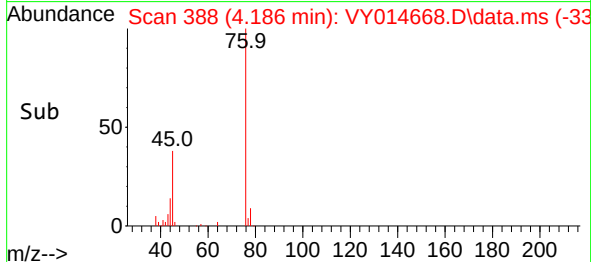
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



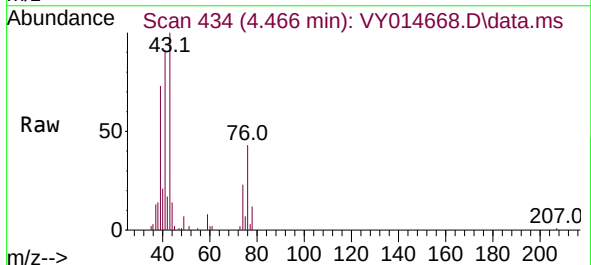
Tgt Ion: 76 Resp: 30330
Ion Ratio Lower Upper
76 100
78 9.9 7.0 10.4

Manual Integrations
APPROVED

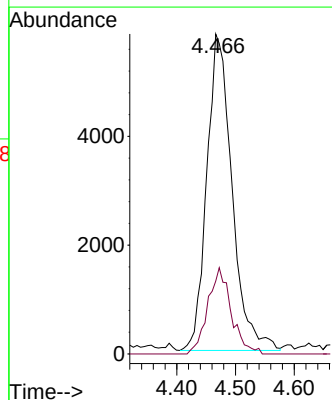
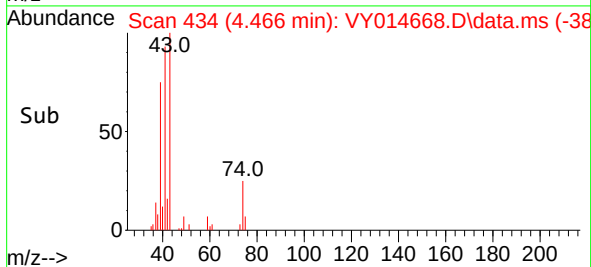
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

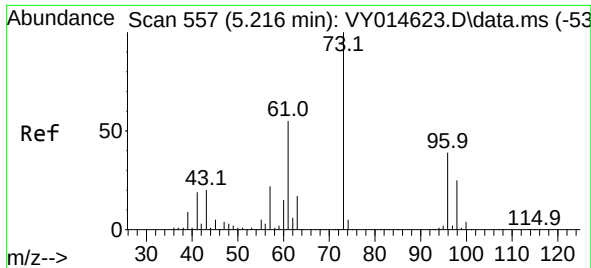


#18
Methyl Acetate
Concen: 4.353 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



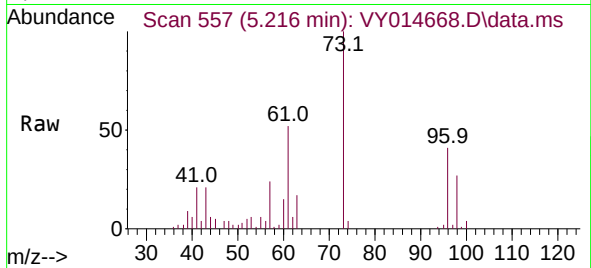
Tgt Ion: 43 Resp: 17373
Ion Ratio Lower Upper
43 100
74 25.3 17.4 26.0





#19
Methyl tert-butyl Ether
Concen: 3.970 ug/l
RT: 5.216 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

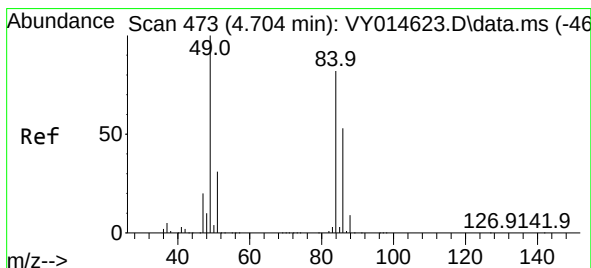
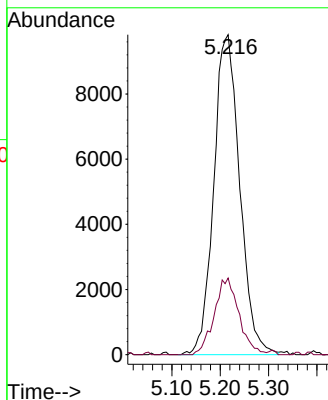
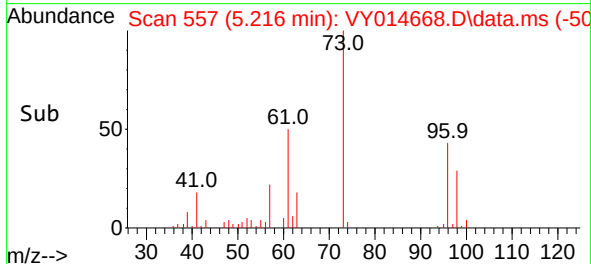
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



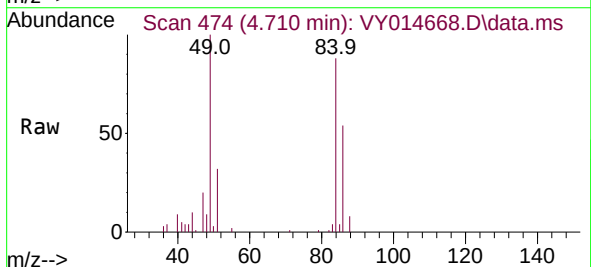
Tgt Ion: 73 Resp: 3657
Ion Ratio Lower Upper
73 100
57 23.9 17.3 25.9

Manual Integrations
APPROVED

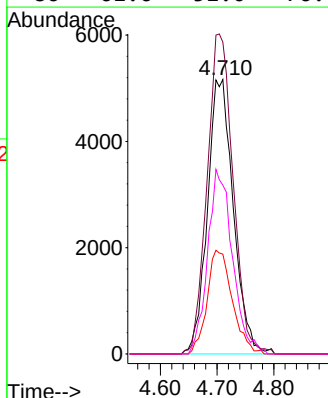
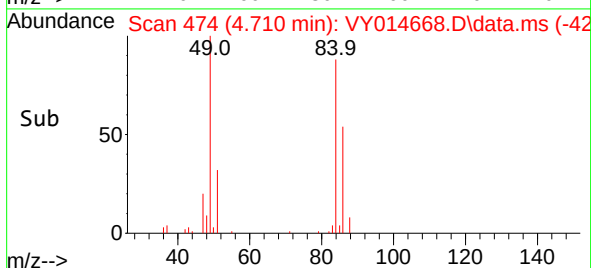
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

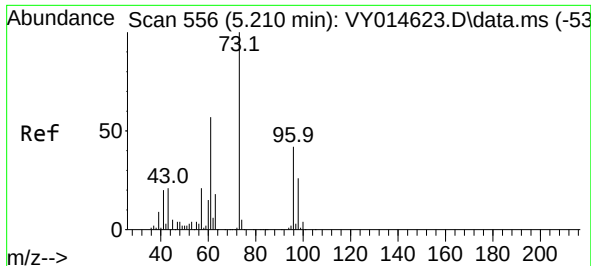


#20
Methylene Chloride
Concen: 4.347 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



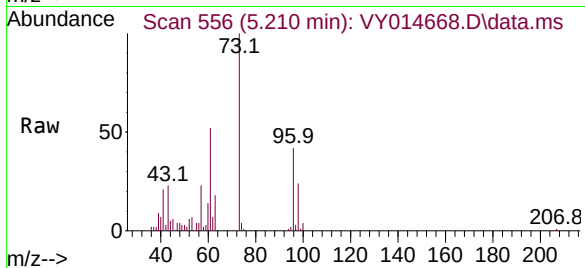
Tgt Ion: 84 Resp: 16436
Ion Ratio Lower Upper
84 100
49 113.7 106.9 160.3
51 36.4 33.2 49.8
86 61.6 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 3.927 ug/l
RT: 5.210 min Scan# 511
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

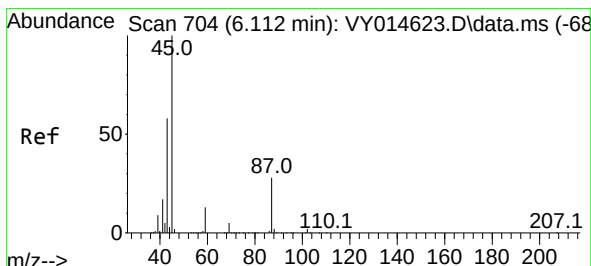
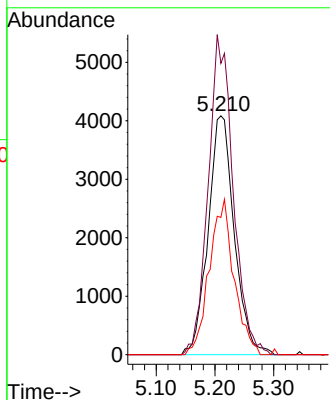
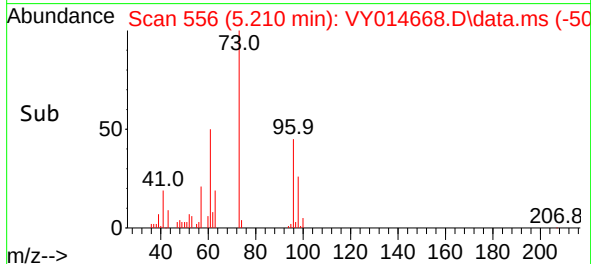
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



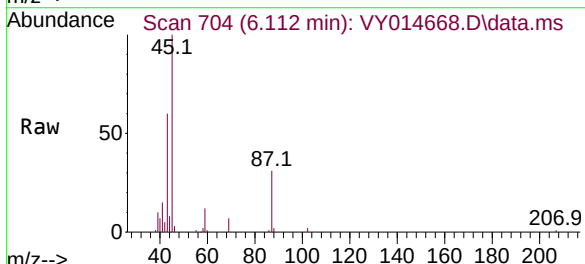
Tgt Ion: 96 Resp: 12638
Ion Ratio Lower Upper
96 100
61 122.0 110.2 165.4
98 57.4 51.8 77.6

Manual Integrations
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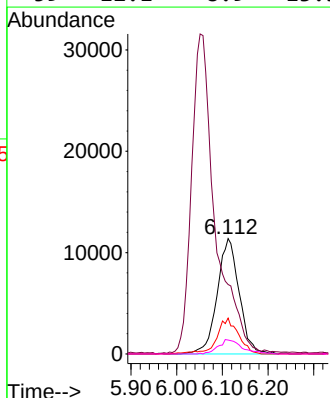
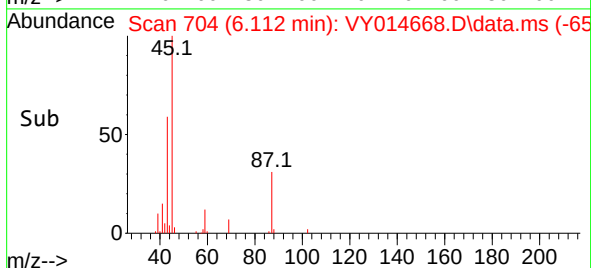
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

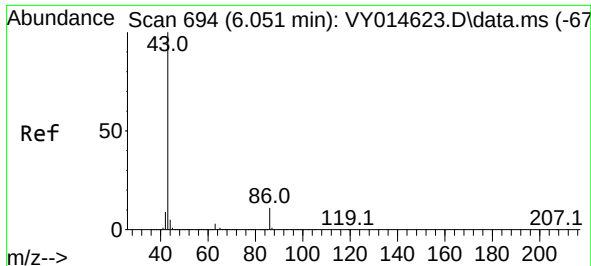


#22
Diisopropyl ether
Concen: 3.709 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



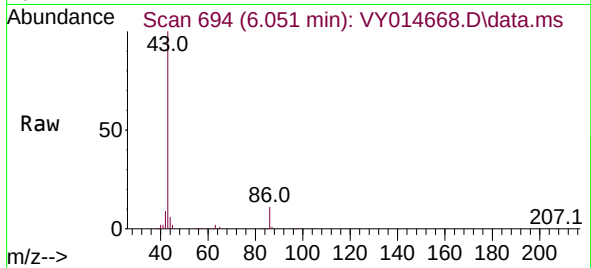
Tgt Ion: 45 Resp: 37969
Ion Ratio Lower Upper
45 100
43 58.4 52.2 78.4
87 31.1 21.0 31.6
59 12.1 8.9 13.3





#23
 Vinyl Acetate
 Concen: 18.586 ug/l
 RT: 6.051 min Scan# 694
 Delta R.T. 0.000 min
 Lab File: VY014668.D
 Acq: 17 Jul 2023 13:32

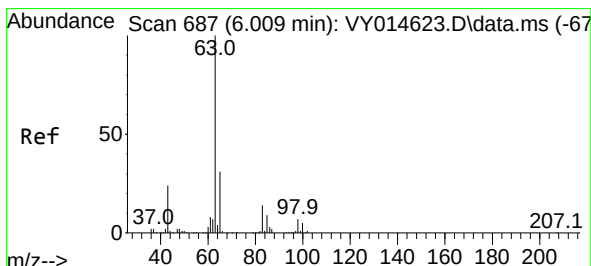
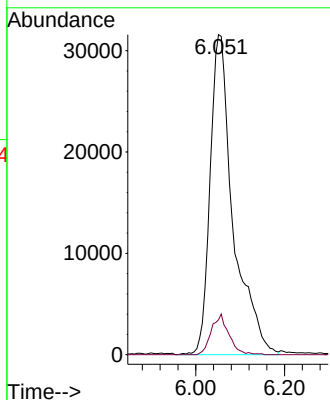
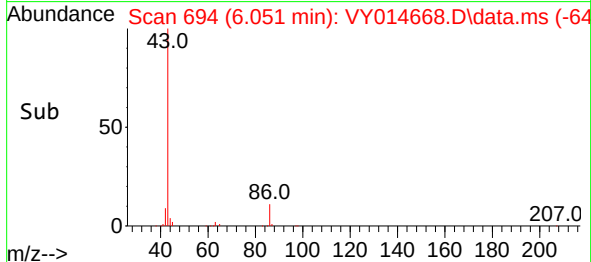
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



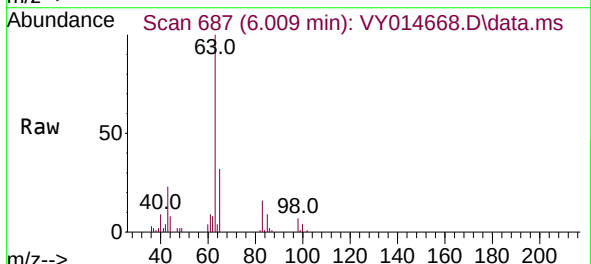
Tgt Ion: 43 Resp: 11386
 Ion Ratio Lower Upper
 43 100
 86 10.9 7.5 11.3

Manual Integrations
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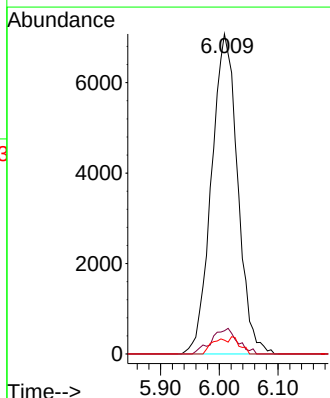
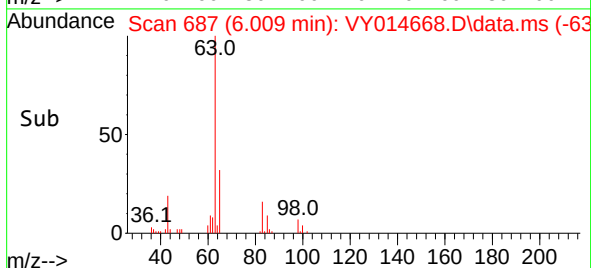
Reviewed By :John Carlone 07/18/2023
 Supervised By :Mahesh Dadoda 07/18/2023

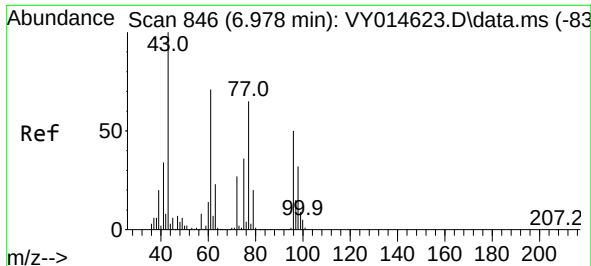


#24
 1,1-Dichloroethane
 Concen: 3.742 ug/l
 RT: 6.009 min Scan# 687
 Delta R.T. -0.000 min
 Lab File: VY014668.D
 Acq: 17 Jul 2023 13:32



Tgt Ion: 63 Resp: 21919
 Ion Ratio Lower Upper
 63 100
 98 7.3 3.1 9.4
 100 4.3 1.8 5.5





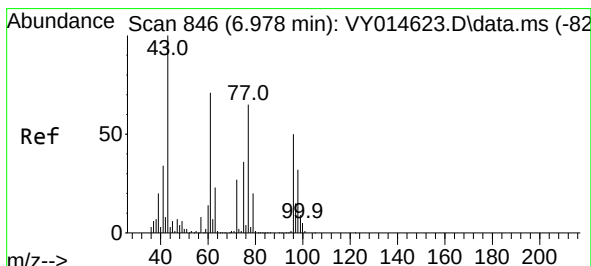
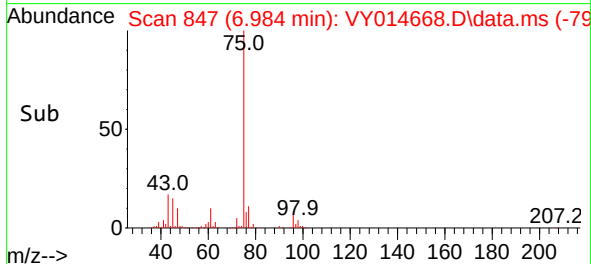
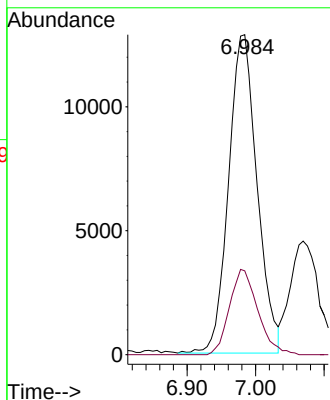
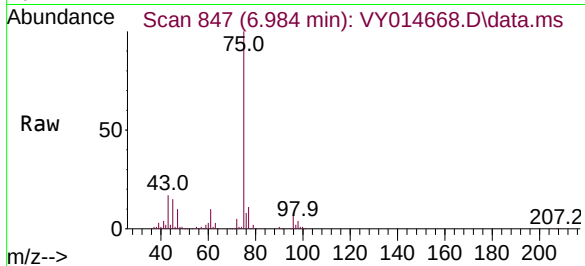
#25
2-Butanone
Concen: 24.417 ug/l
RT: 6.984 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 3715
Ion Ratio Lower Upper
43 100
72 26.3 20.5 30.7

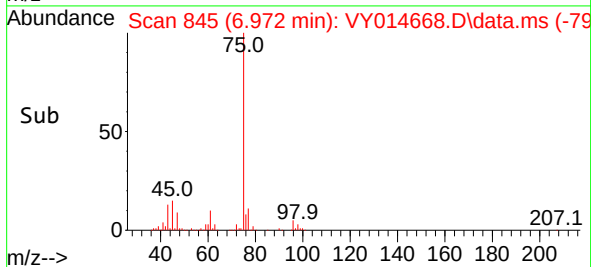
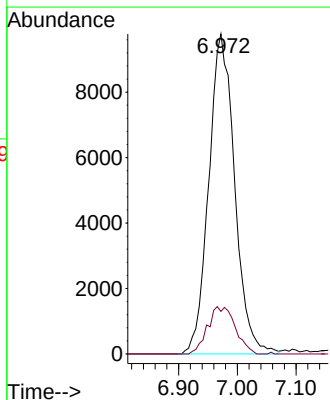
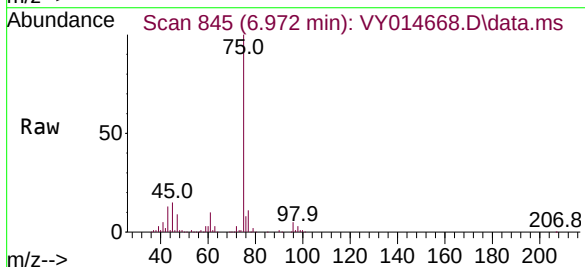
Manual Integrations
APPROVED

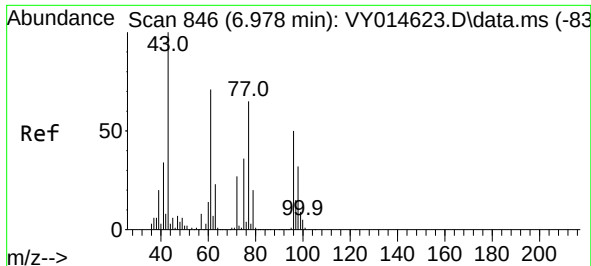
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#26
2,2-Dichloropropane
Concen: 5.365 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

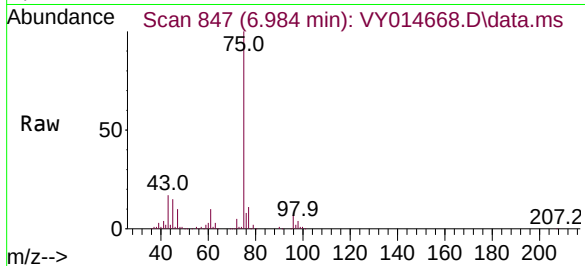
Tgt Ion: 77 Resp: 29953
Ion Ratio Lower Upper
77 100
97 15.8 10.9 32.9





#27
 cis-1,2-Dichloroethene
 Concen: 3.767 ug/l
 RT: 6.984 min Scan# 846
 Delta R.T. 0.006 min
 Lab File: VY014668.D
 Acq: 17 Jul 2023 13:32

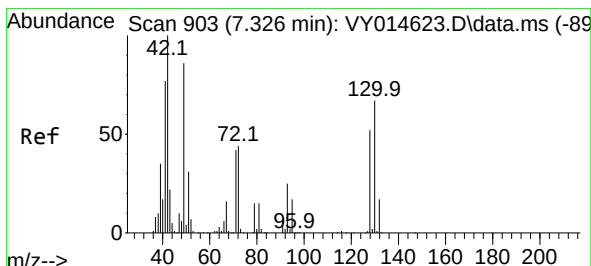
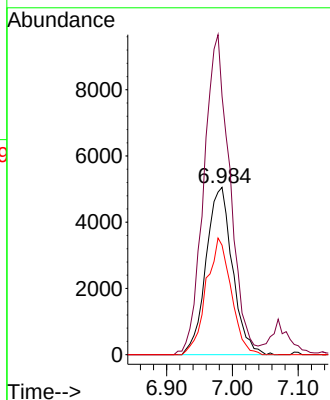
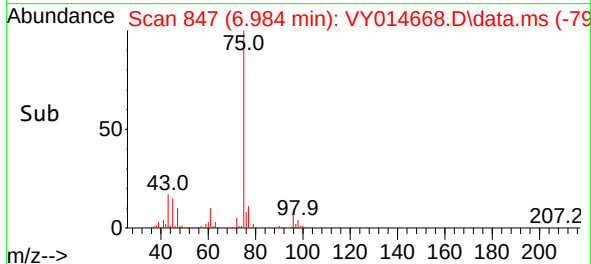
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



Tgt Ion: 96 Resp: 1411
 Ion Ratio Lower Upper
 96 100
 61 188.8 0.0 301.4
 98 65.9 0.0 130.4

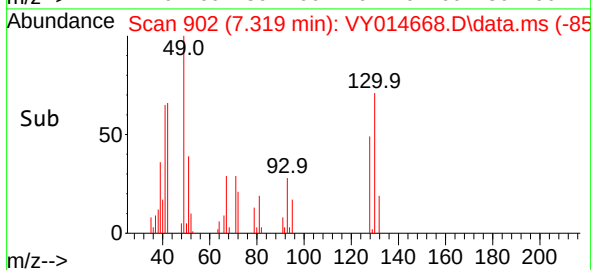
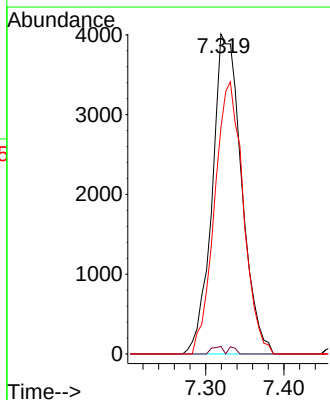
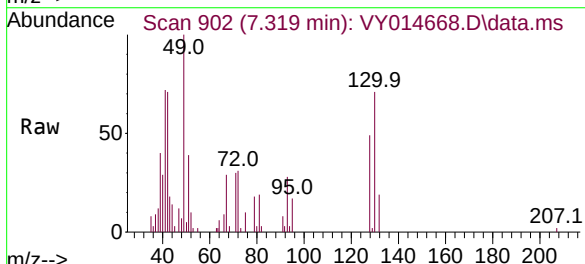
Manual Integrations
 APPROVED

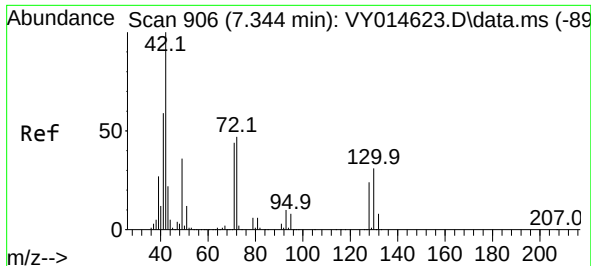
Reviewed By :John Carlone 07/18/2023
 Supervised By :Mahesh Dadoda 07/18/2023



#28
 Bromochloromethane
 Concen: 4.135 ug/l
 RT: 7.319 min Scan# 902
 Delta R.T. -0.007 min
 Lab File: VY014668.D
 Acq: 17 Jul 2023 13:32

Tgt Ion: 49 Resp: 10431
 Ion Ratio Lower Upper
 49 100
 129 0.9 0.0 4.6
 130 0.0 60.7 91.1#





#29

Tetrahydrofuran

Concen: 20.740 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

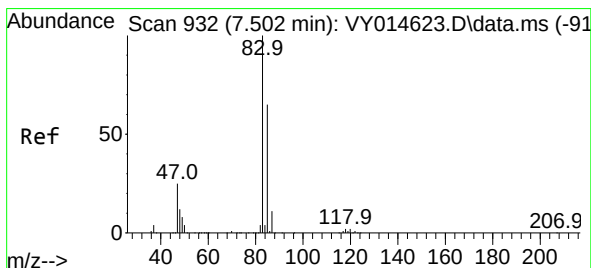
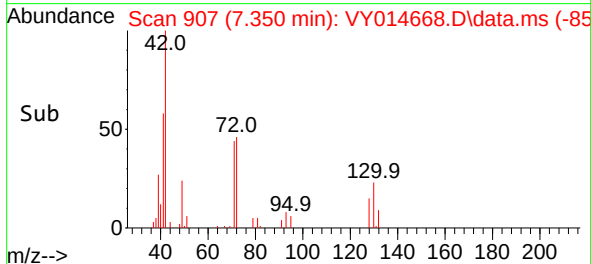
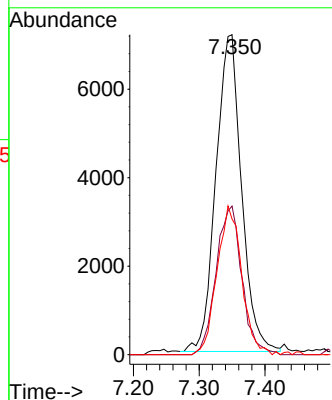
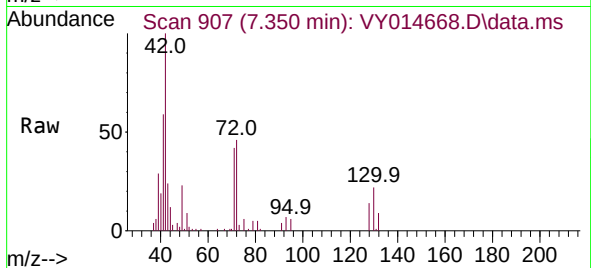
Tgt Ion:	42	Resp:	1943
Ion Ratio	Lower	Upper	
42	100		
72	47.1	32.8	49.2
71	45.3	31.0	46.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#30

Chloroform

Concen: 3.949 ug/l

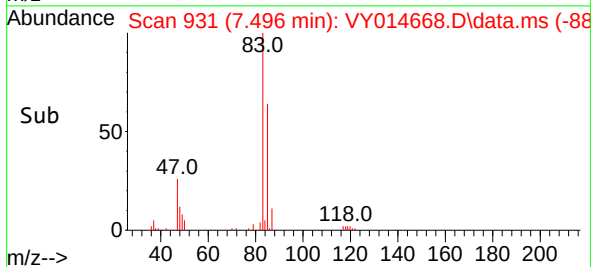
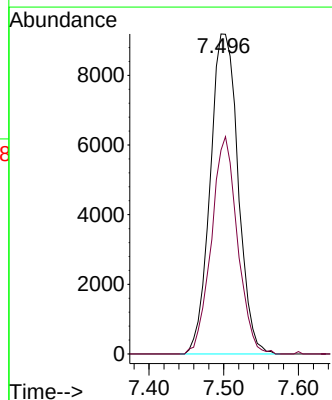
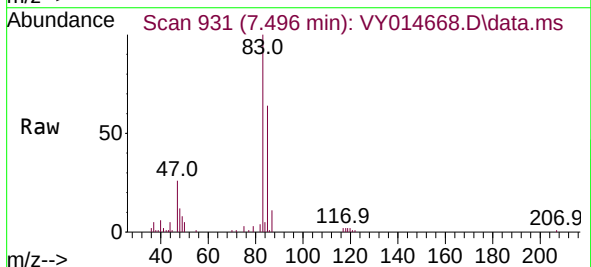
RT: 7.496 min Scan# 931

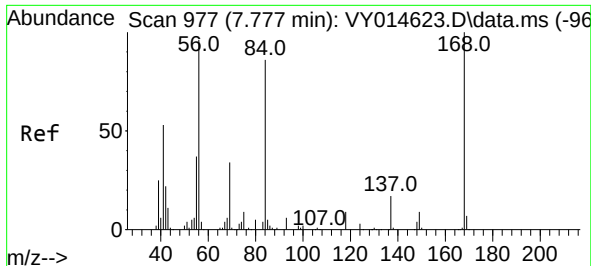
Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

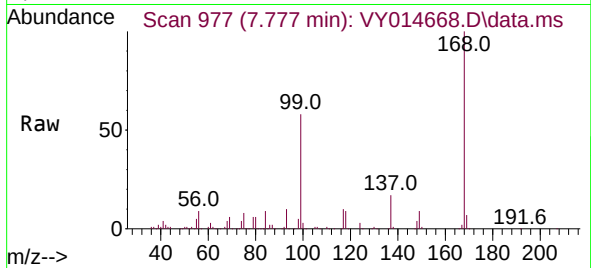
Tgt Ion:	83	Resp:	23852
Ion Ratio	Lower	Upper	
83	100		
85	63.7	49.7	74.5





#31
Cyclohexane
Concen: 4.504 ug/l
RT: 7.777 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

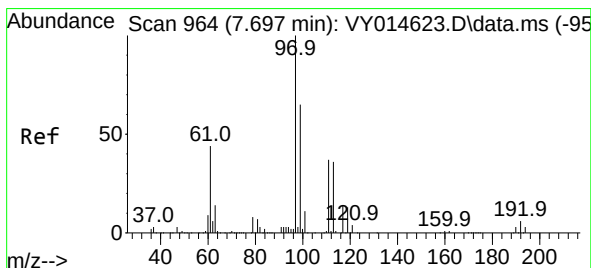
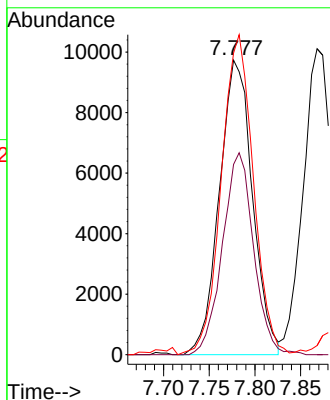
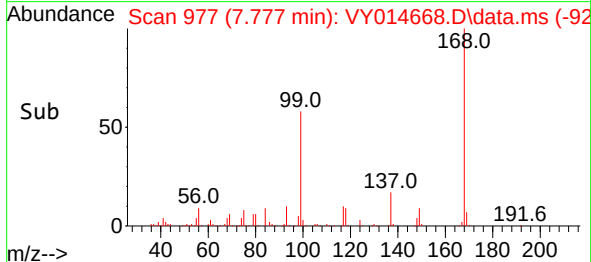
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 56 Resp: 24530
Ion Ratio Lower Upper
56 100
69 64.6 27.8 41.6
84 102.4 66.4 99.6

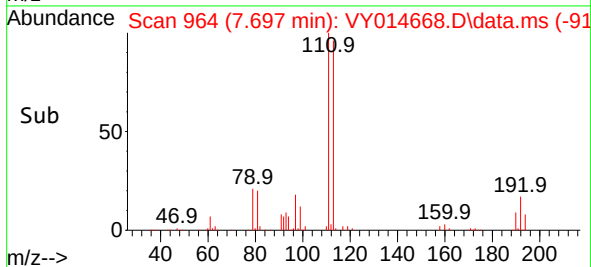
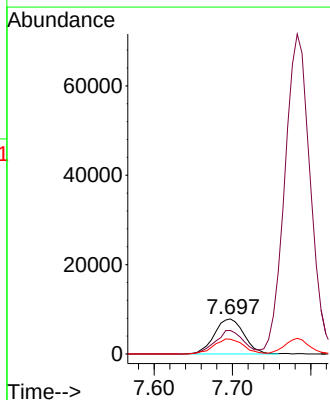
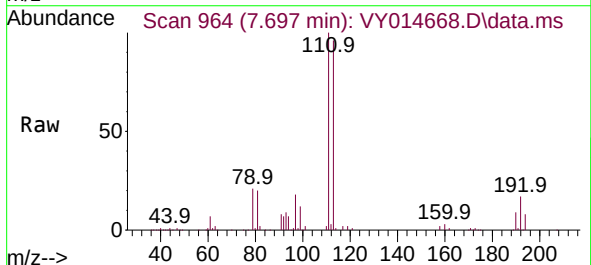
Manual Integrations
APPROVED

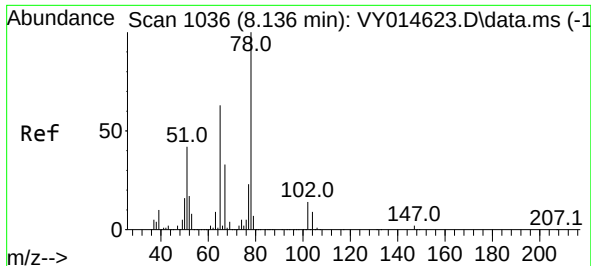
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#32
1,1,1-Trichloroethane
Concen: 3.784 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 97 Resp: 20571
Ion Ratio Lower Upper
97 100
99 64.5 50.8 76.2
61 43.0 35.1 52.7





#33

1,2-Dichloroethane-d4

Concen: 50.498 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 65 Resp: 165729

Ion Ratio Lower Upper

65 100

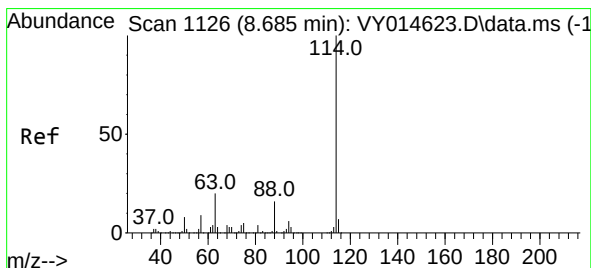
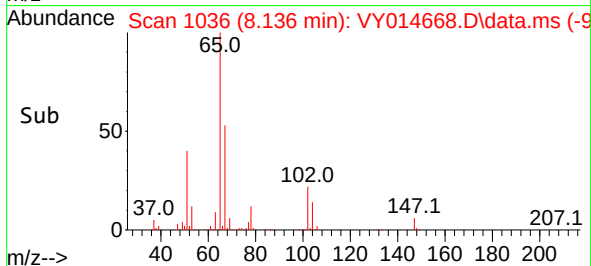
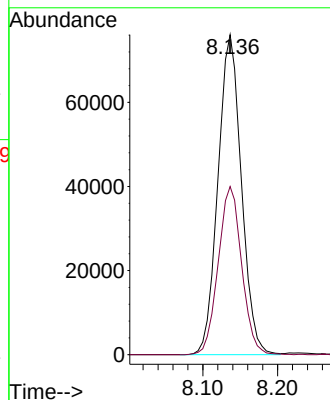
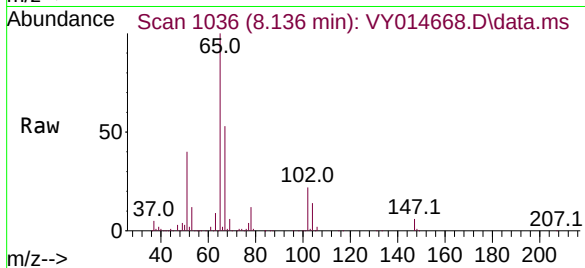
67 52.6 0.0 101.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

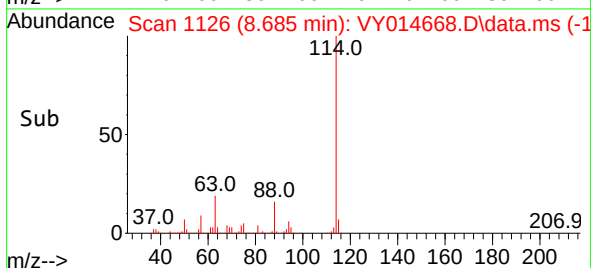
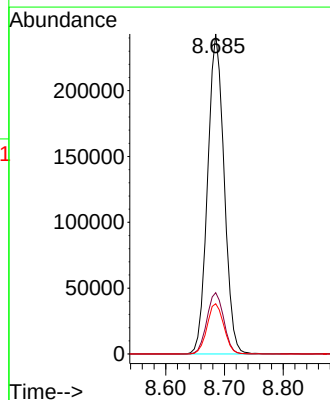
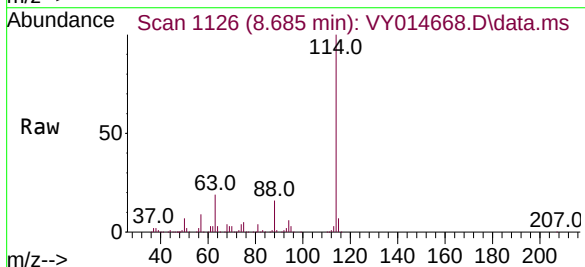
Tgt Ion:114 Resp: 473543

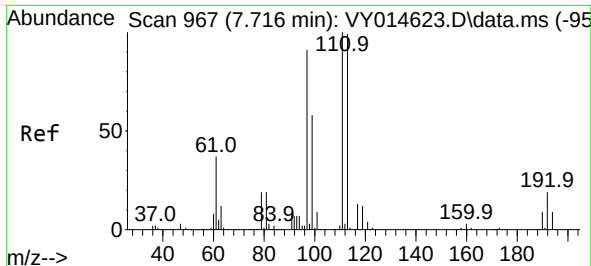
Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.4

88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.595 ug/l

RT: 7.710 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:113 Resp: 15553

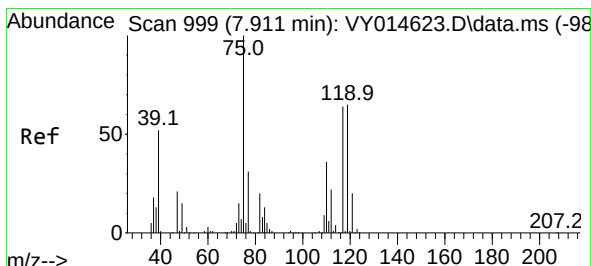
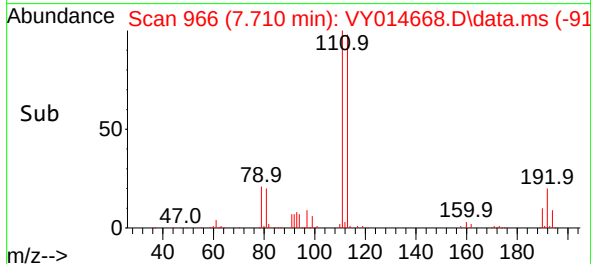
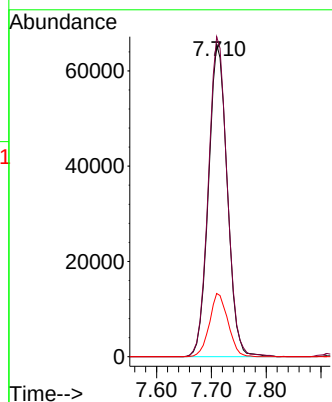
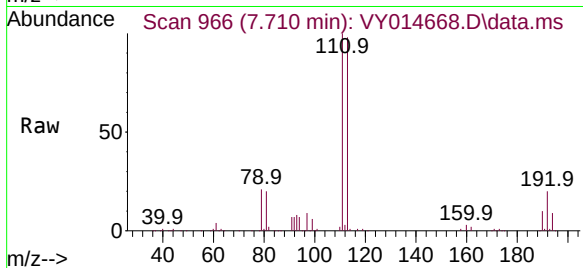
Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.3	121.9
192	20.0	16.9	25.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#36

1,1-Dichloropropene

Concen: 4.065 ug/l

RT: 7.911 min Scan# 999

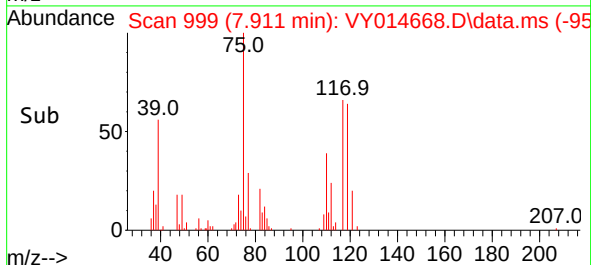
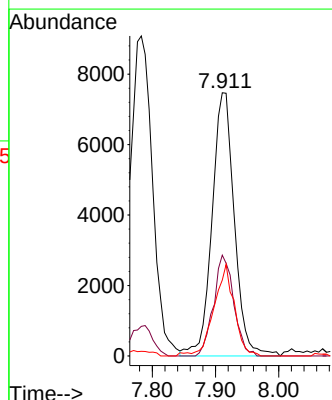
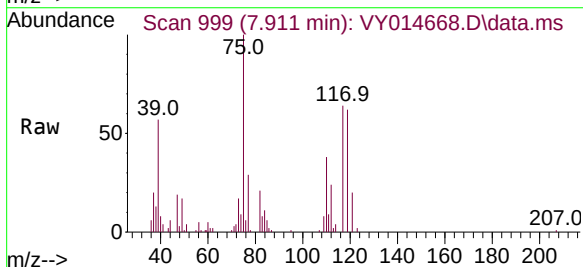
Delta R.T. -0.000 min

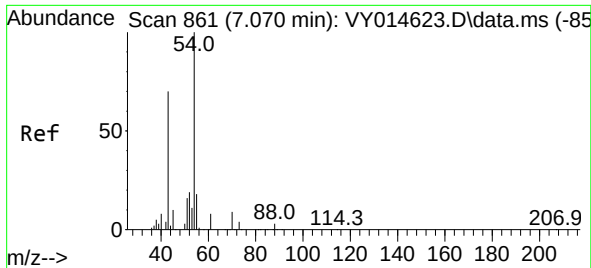
Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion: 75 Resp: 18327

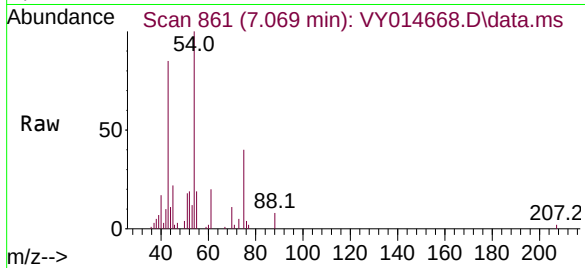
Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.8	53.5
77	31.7	24.4	36.6





#37
Ethyl Acetate
Concen: 4.380 ug/l
RT: 7.069 min Scan# 80
Delta R.T. -0.001 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

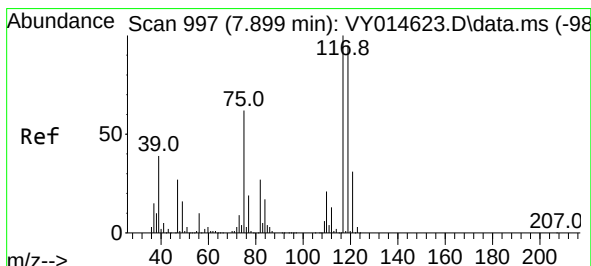
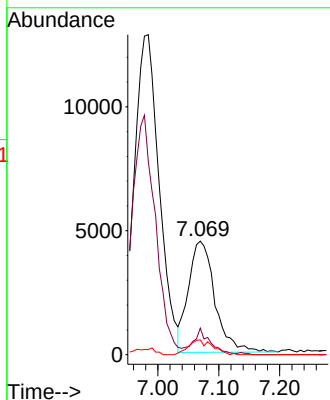
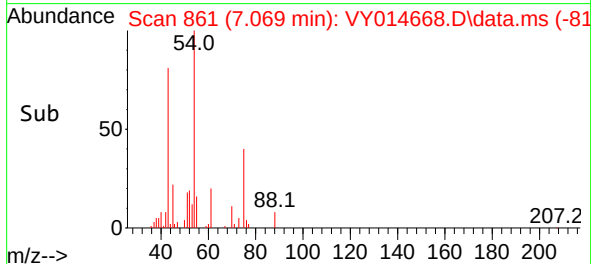
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 13594
Ion Ratio Lower Upper
43 100
61 13.6 10.1 15.1
70 12.0 7.1 10.7

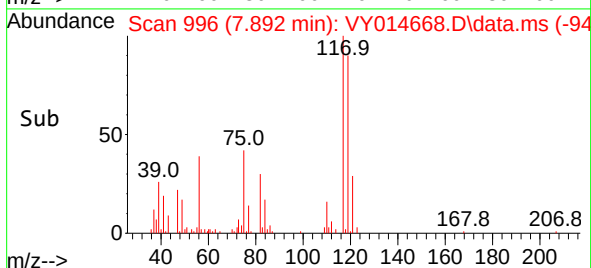
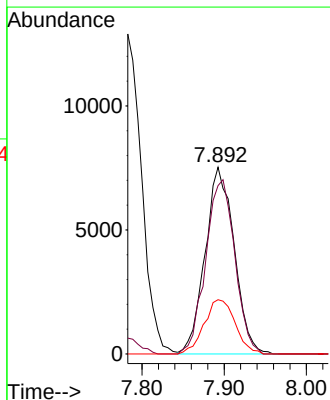
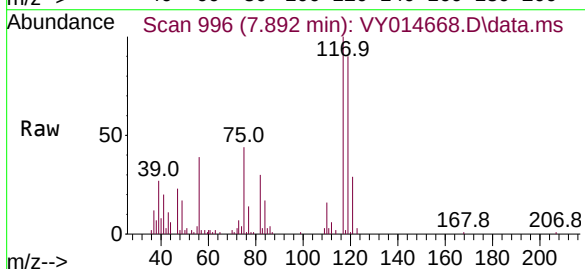
Manual Integrations
APPROVED

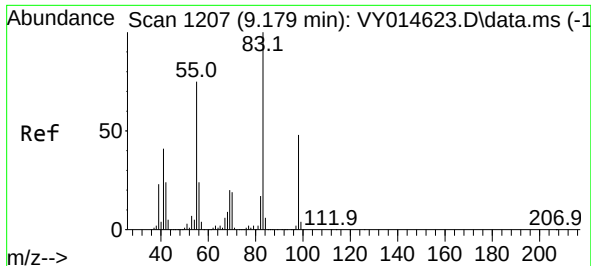
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#38
Carbon Tetrachloride
Concen: 3.888 ug/l
RT: 7.892 min Scan# 996
Delta R.T. -0.007 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:117 Resp: 18529
Ion Ratio Lower Upper
117 100
119 90.1 76.4 114.6
121 29.1 25.8 38.6





#39

Methylcyclohexane

Concen: 3.665 ug/l

RT: 9.179 min Scan# 1207

Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

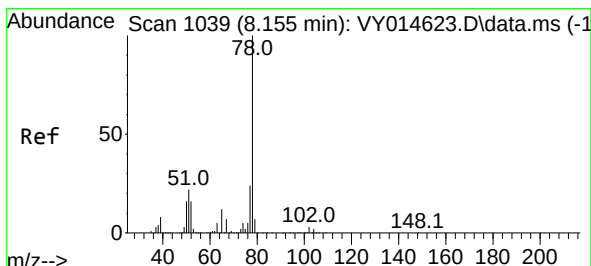
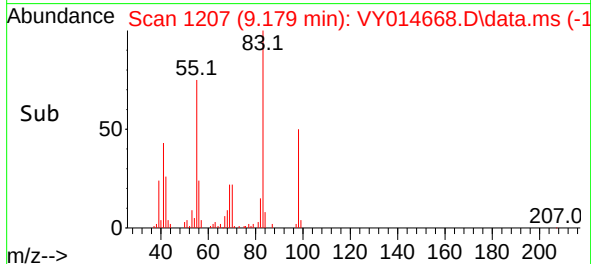
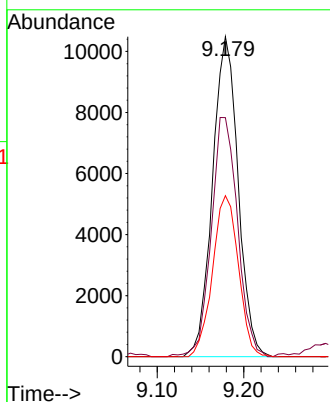
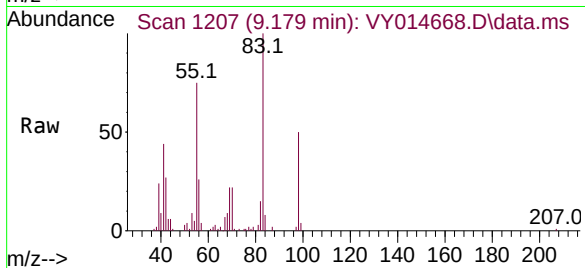
Tgt Ion: 83	Resp: 2152
Ion Ratio	Lower Upper
83 100	
55 74.1	63.0 94.4
98 50.3	37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#40

Benzene

Concen: 3.832 ug/l

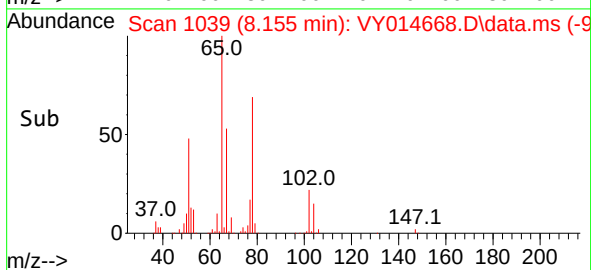
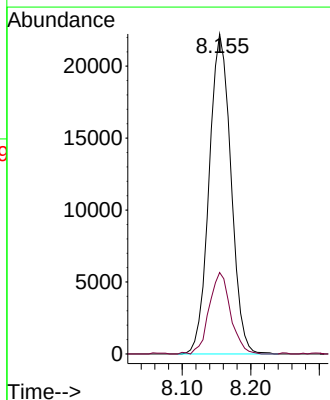
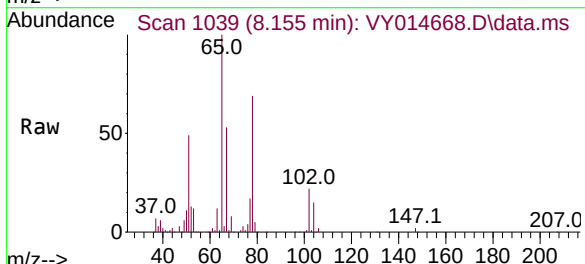
RT: 8.155 min Scan# 1039

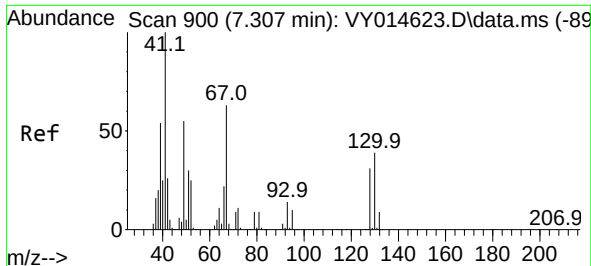
Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

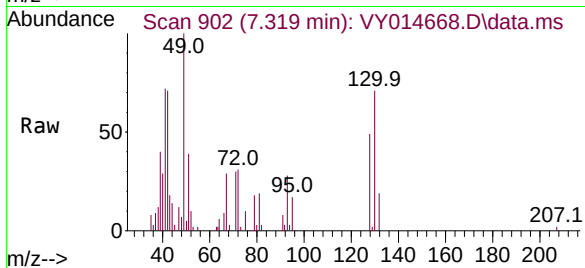
Tgt Ion: 78	Resp: 49135
Ion Ratio	Lower Upper
78 100	
77 25.4	19.0 28.6





#41
Methacrylonitrile
Concen: 4.400 ug/l m
RT: 7.319 min Scan# 902
Delta R.T. 0.012 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

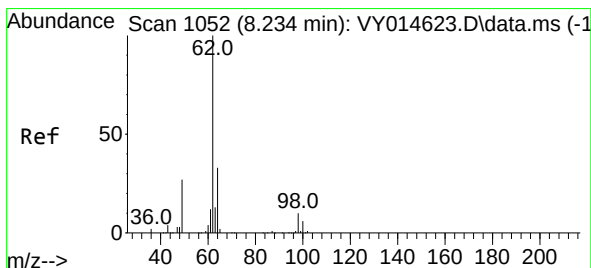
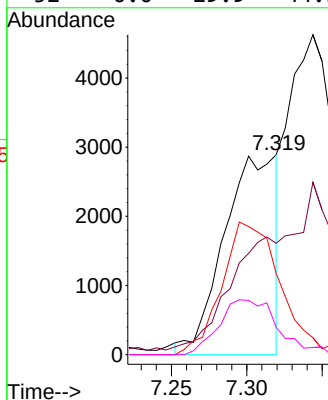
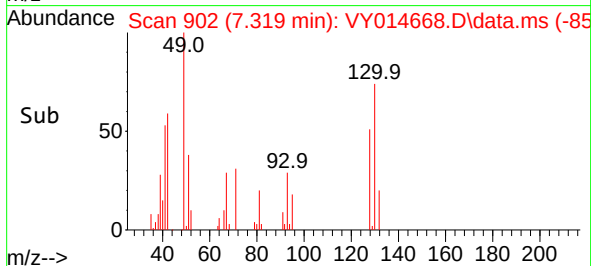
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 41 Resp: 7024
Ion Ratio Lower Upper
41 100
39 139.1 52.1 78.1
67 0.0 66.2 99.2
52 0.0 29.9 44.9

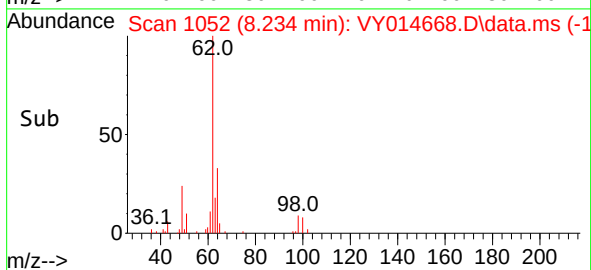
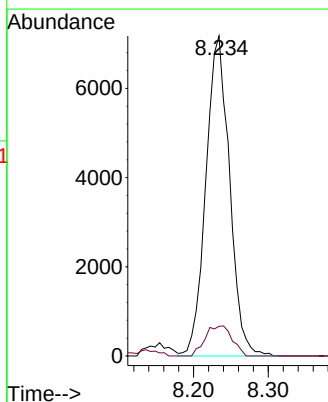
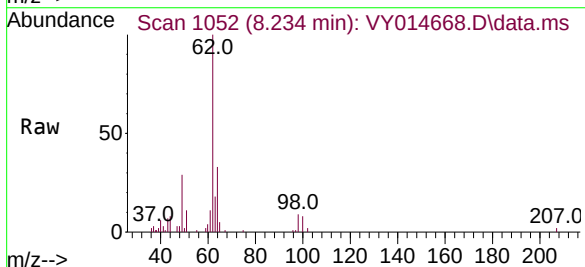
Manual Integrations
APPROVED

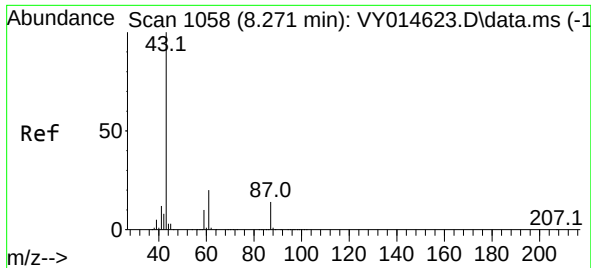
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#42
1,2-Dichloroethane
Concen: 3.891 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

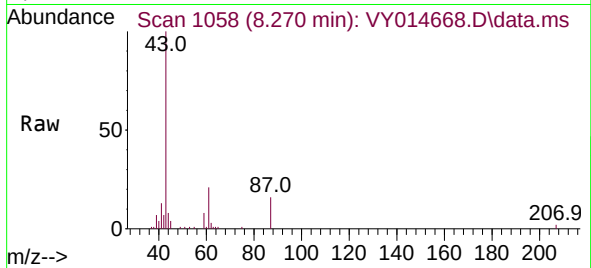
Tgt Ion: 62 Resp: 15799
Ion Ratio Lower Upper
62 100
98 10.7 0.0 15.8





#43
Isopropyl Acetate
Concen: 3.726 ug/l
RT: 8.270 min Scan# 1058
Delta R.T. -0.001 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

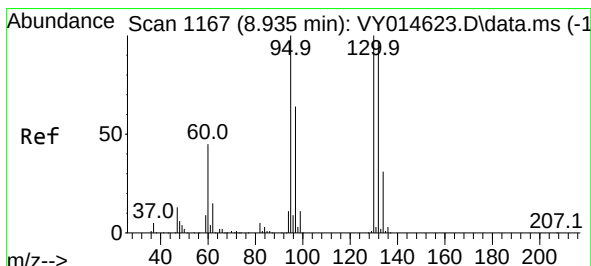
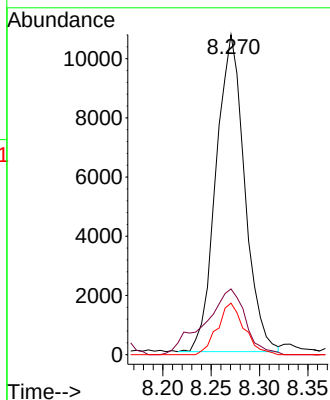
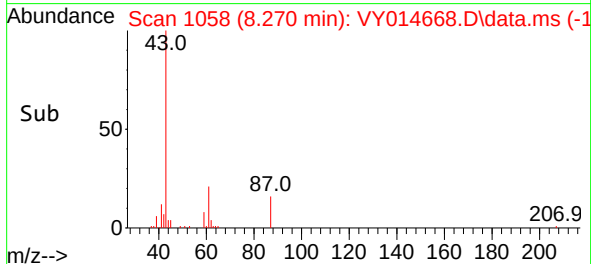
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 2203
Ion Ratio Lower Upper
43 100
61 29.4 21.1 31.7
87 15.3 9.8 14.8

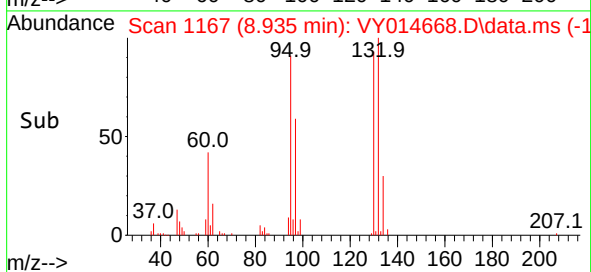
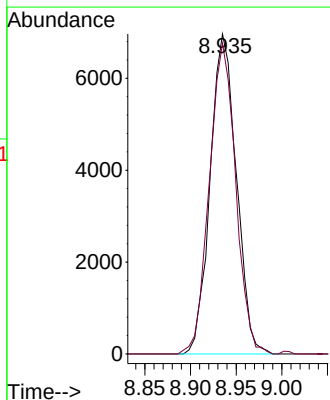
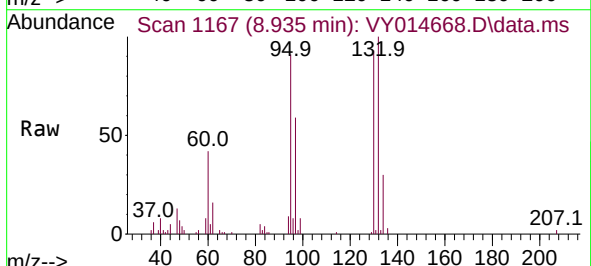
Manual Integrations
APPROVED

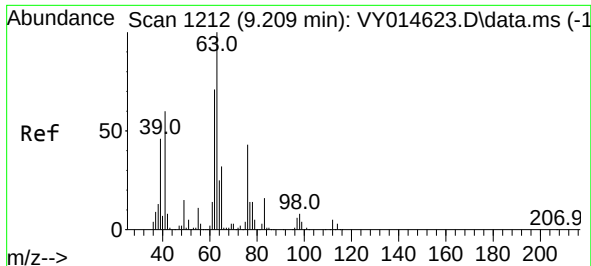
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#44
Trichloroethene
Concen: 3.872 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:130 Resp: 13889
Ion Ratio Lower Upper
130 100
95 97.1 0.0 196.0





#45

1,2-Dichloropropane

Concen: 3.911 ug/l

RT: 9.215 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 63 Resp: 13092

Ion Ratio Lower Upper

63 100

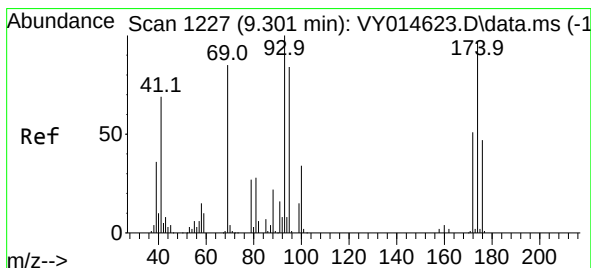
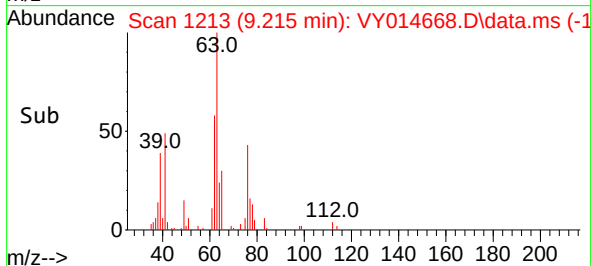
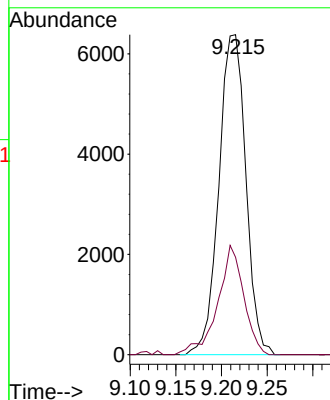
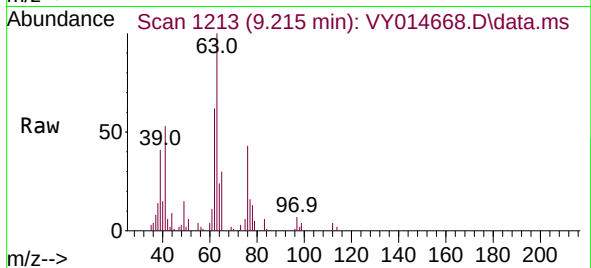
65 30.5 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#46

Dibromomethane

Concen: 3.843 ug/l

RT: 9.295 min Scan# 1226

Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

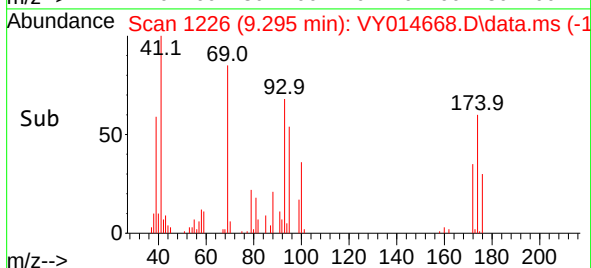
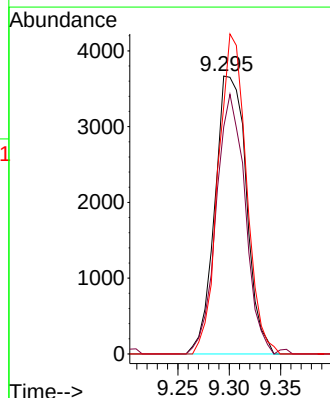
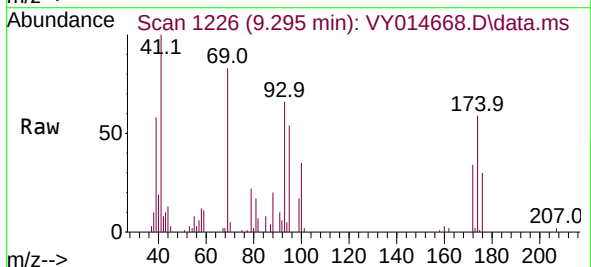
Tgt Ion: 93 Resp: 7806

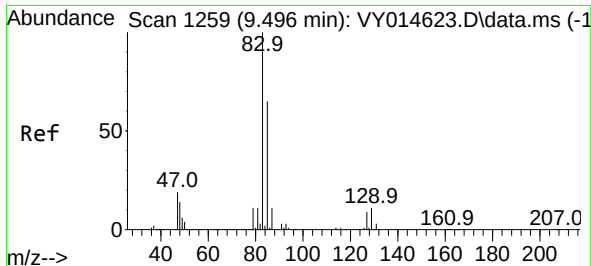
Ion Ratio Lower Upper

93 100

95 86.3 66.6 100.0

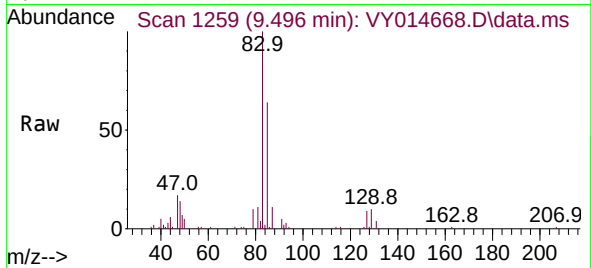
174 102.7 84.8 127.2





#47
Bromodichloromethane
Concen: 3.818 ug/l
RT: 9.496 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

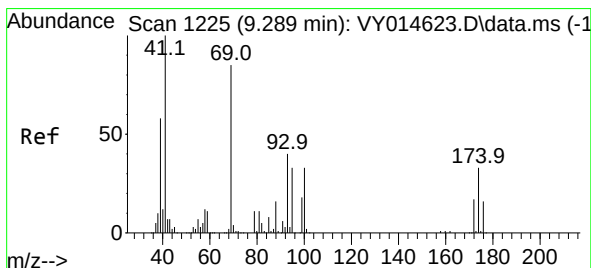
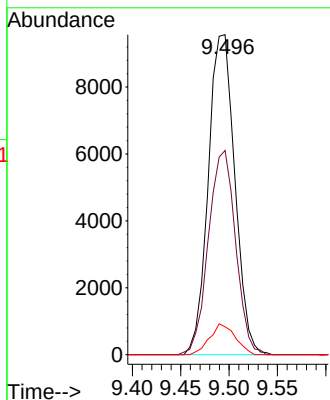
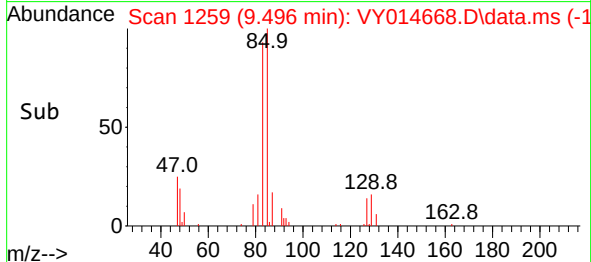
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 83 Resp: 18278
Ion Ratio Lower Upper
83 100
85 63.8 50.1 75.1
127 8.7 7.1 10.7

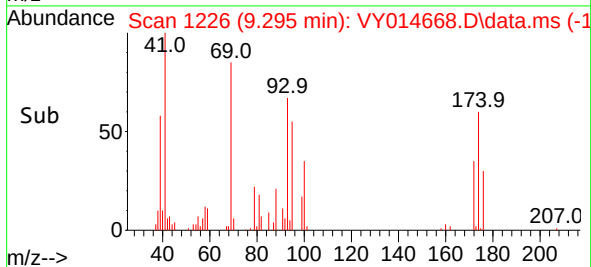
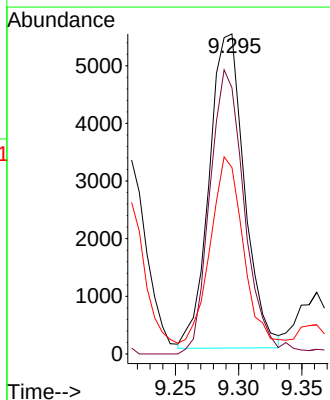
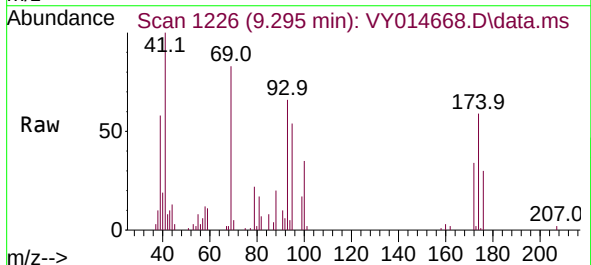
Manual Integrations
APPROVED

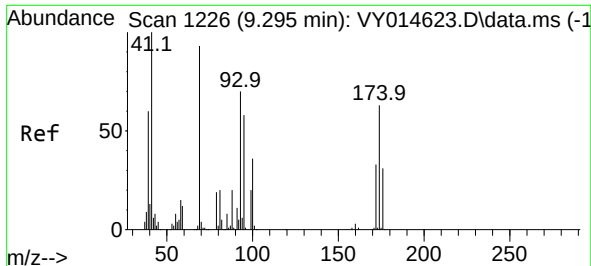
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#48
Methyl methacrylate
Concen: 3.979 ug/l
RT: 9.295 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 41 Resp: 10586
Ion Ratio Lower Upper
41 100
69 88.8 64.5 96.7
39 61.9 50.8 76.2





#49

1,4-Dioxane

Concen: 89.803 ug/l

RT: 9.289 min Scan# 1226

Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

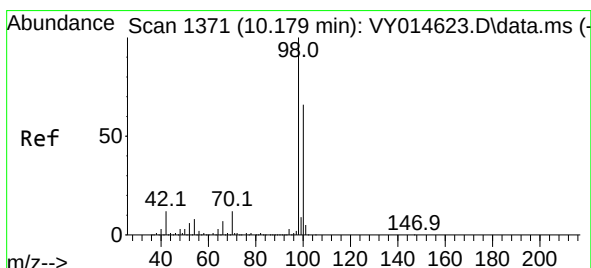
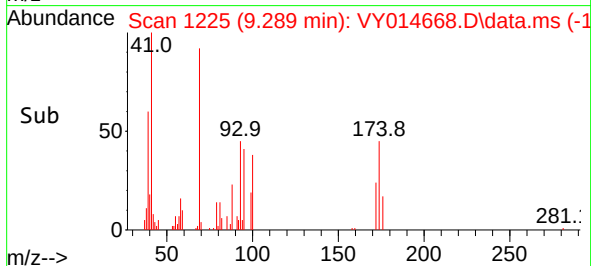
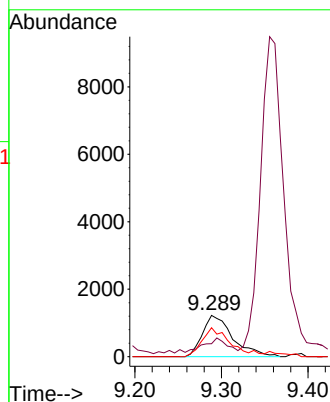
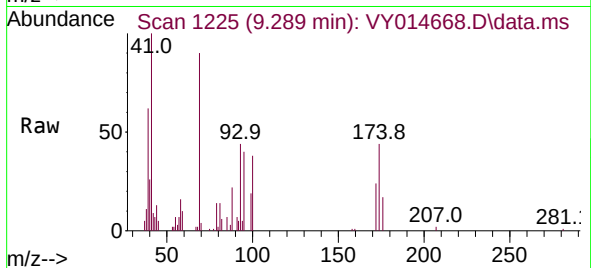
Tgt Ion: 88 Resp: 2974
 Ion Ratio Lower Upper
 88 100
 43 29.1 0.0 0.0
 58 65.9 30.9 46.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#50

Toluene-d8

Concen: 50.165 ug/l

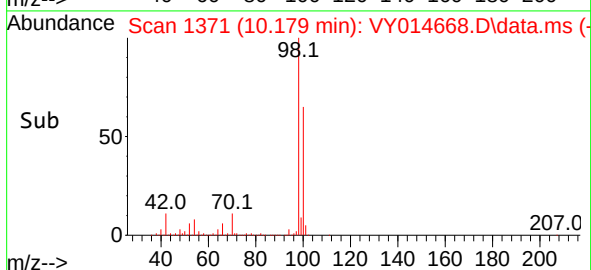
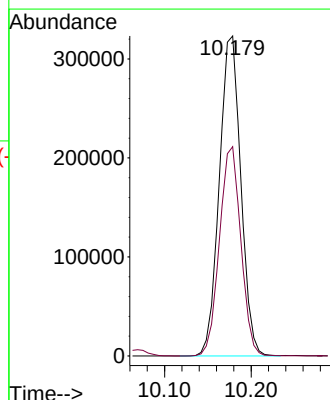
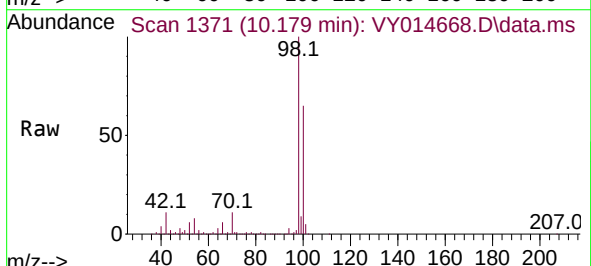
RT: 10.179 min Scan# 1371

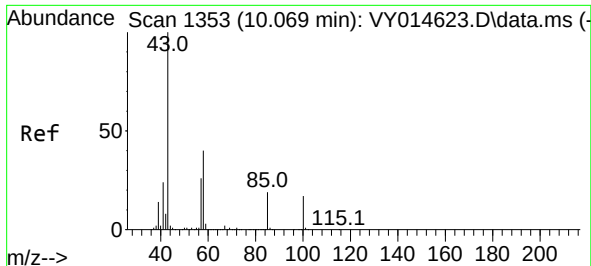
Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion: 98 Resp: 557519
 Ion Ratio Lower Upper
 98 100
 100 65.1 50.1 75.1





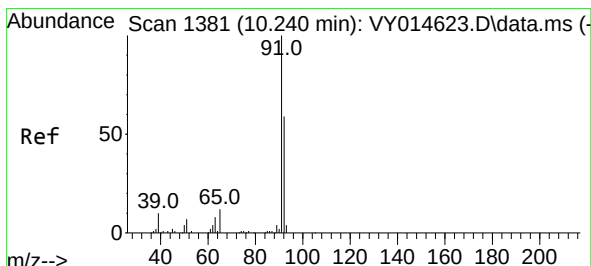
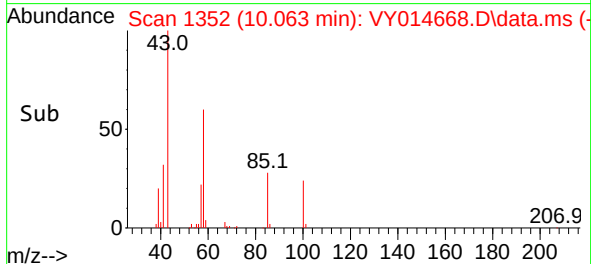
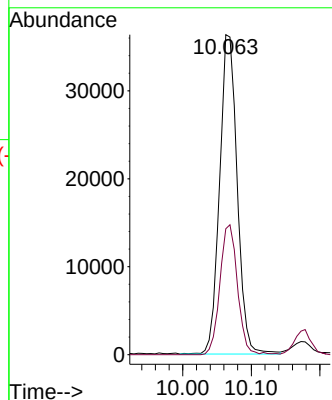
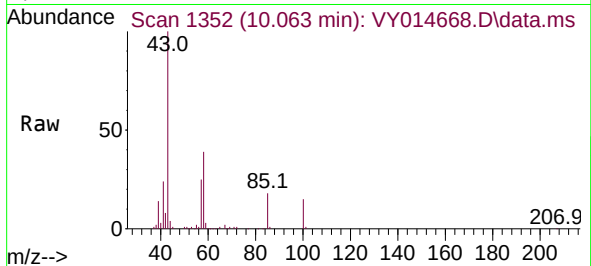
#51
4-Methyl-2-Pentanone
Concen: 20.845 ug/l
RT: 10.063 min Scan# 1352
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 64710
Ion Ratio Lower Upper
43 100
58 40.5 29.0 43.6

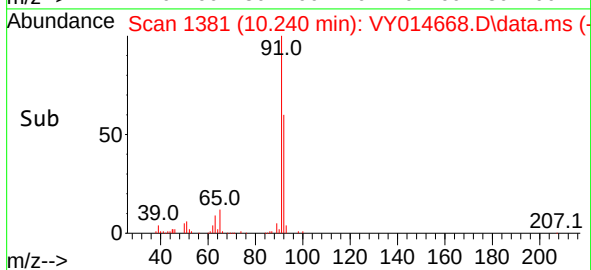
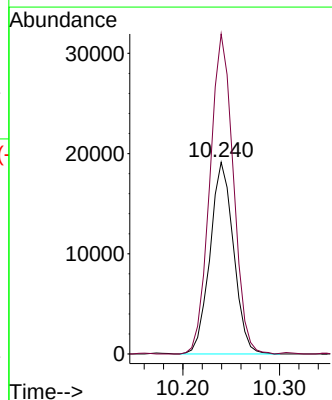
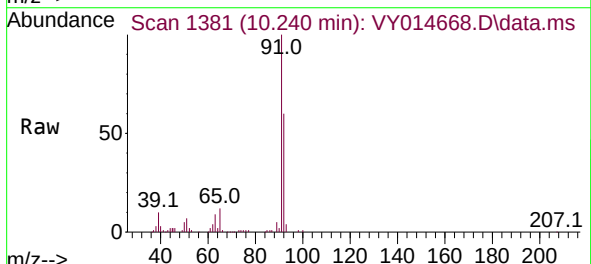
Manual Integrations
APPROVED

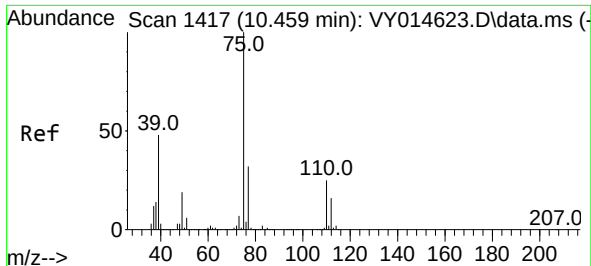
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#52
Toluene
Concen: 3.936 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 92 Resp: 32295
Ion Ratio Lower Upper
92 100
91 166.9 143.8 215.6





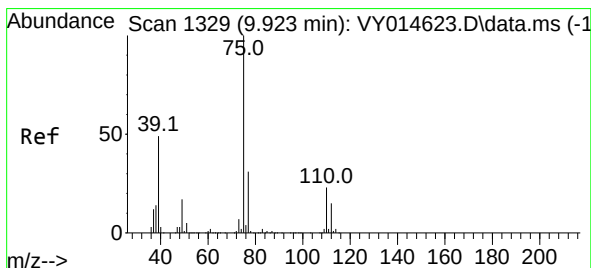
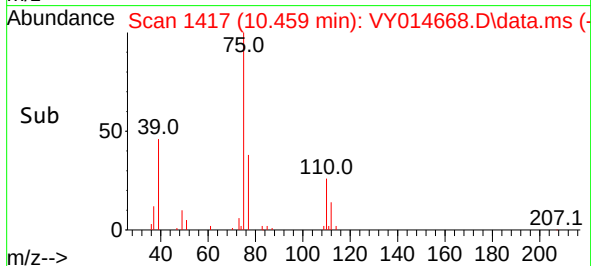
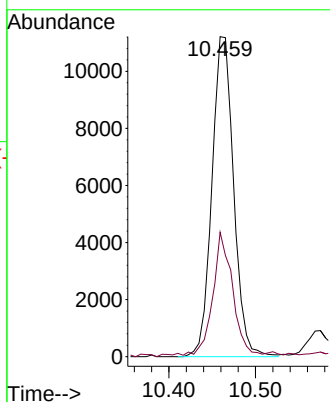
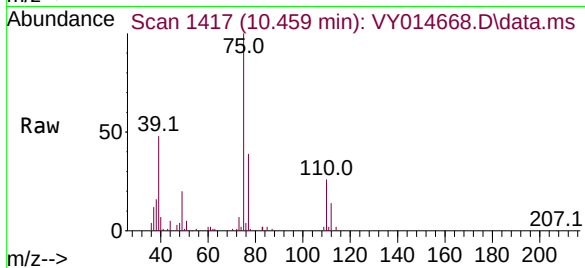
#53
t-1,3-Dichloropropene
Concen: 3.737 ug/l
RT: 10.459 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion: 75 Resp: 1956
Ion Ratio Lower Upper
75 100
77 38.0 25.0 37.4

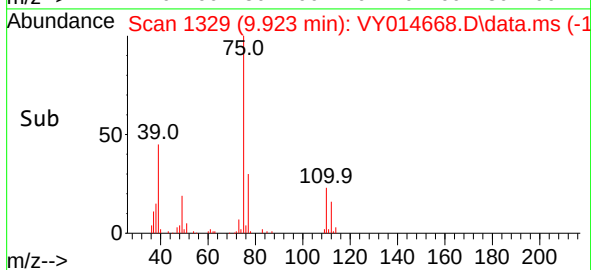
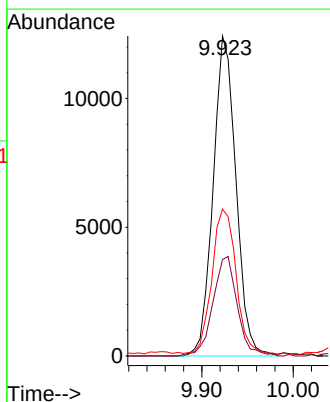
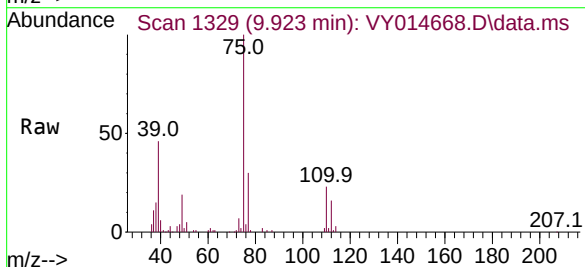
Manual Integrations
APPROVED

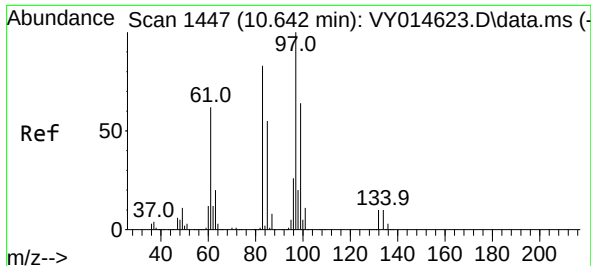
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#54
cis-1,3-Dichloropropene
Concen: 3.787 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

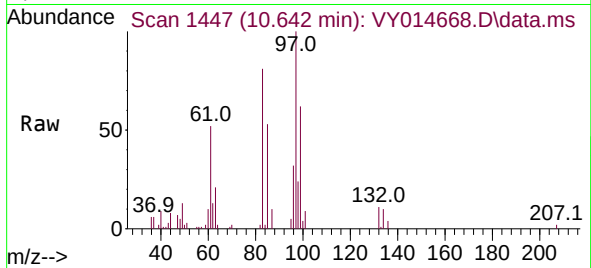
Tgt Ion: 75 Resp: 21565
Ion Ratio Lower Upper
75 100
77 30.2 24.2 36.4
39 45.4 42.2 63.4





#55
1,1,2-Trichloroethane
Concen: 4.003 ug/l
RT: 10.642 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

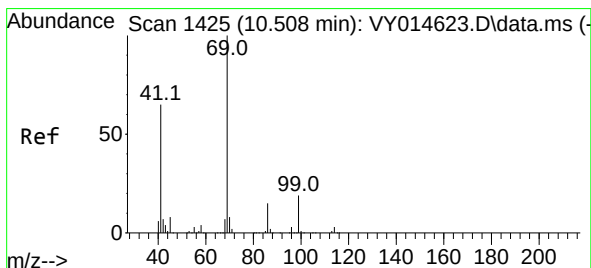
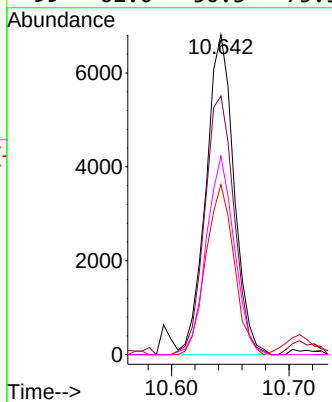
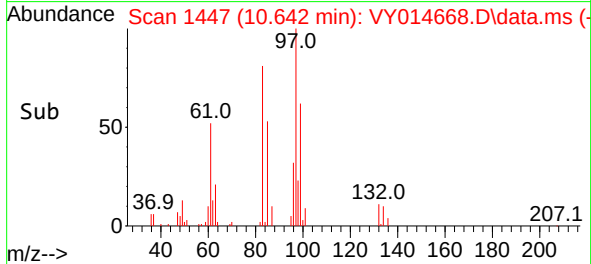
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion:	97	Resp:	11324
Ion Ratio	100	Lower	Upper
97	100		
83	80.9	72.0	108.0
85	53.2	45.4	68.0
99	62.0	50.3	75.5

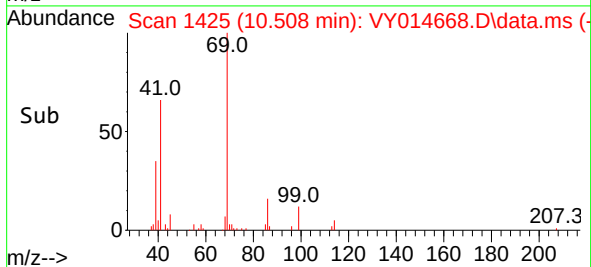
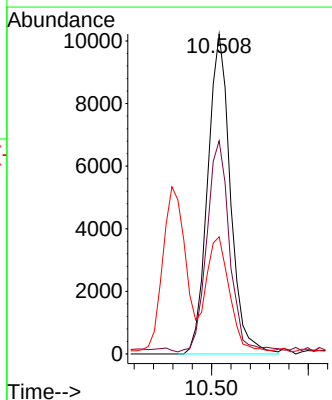
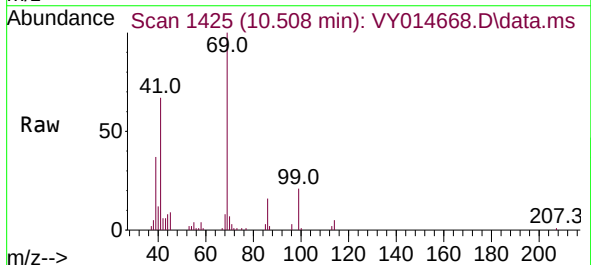
Manual Integrations
APPROVED

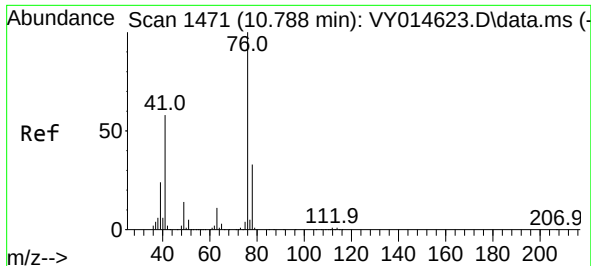
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#56
Ethyl methacrylate
Concen: 3.858 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:	69	Resp:	16667
Ion Ratio	100	Lower	Upper
69	100		
41	66.3	57.6	86.4
39	36.4	34.1	51.1





#57

1,3-Dichloropropane

Concen: 3.875 ug/l

RT: 10.788 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 76 Resp: 18910

Ion Ratio Lower Upper

76 100

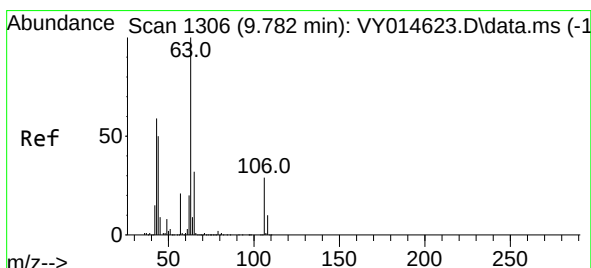
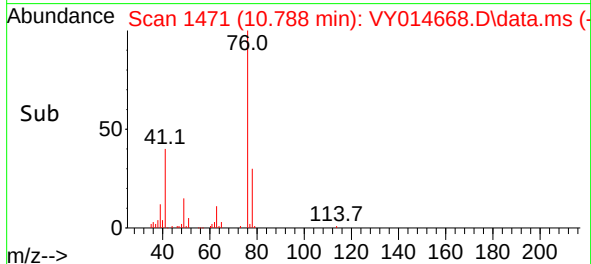
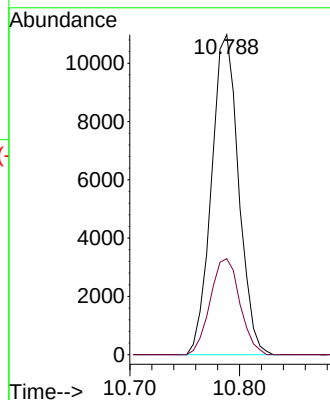
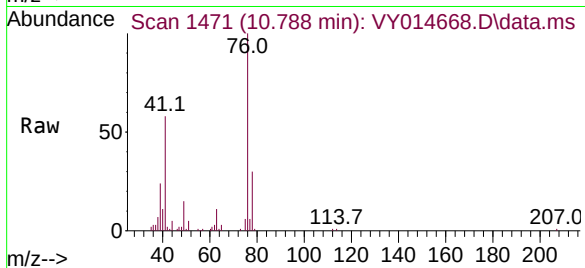
78 32.7 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#58

2-Chloroethyl Vinyl ether

Concen: 21.562 ug/l

RT: 9.776 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VY014668.D

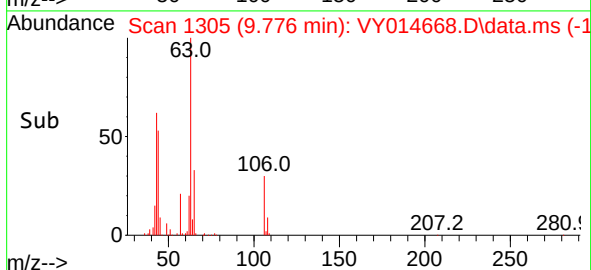
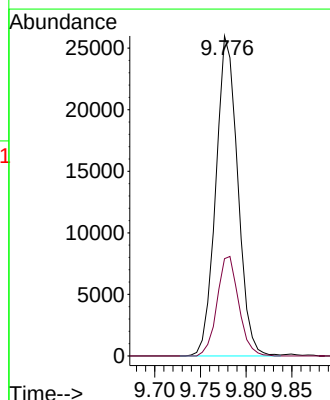
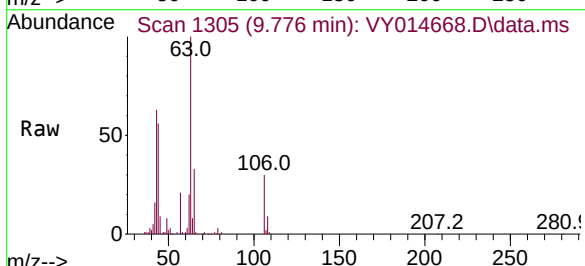
Acq: 17 Jul 2023 13:32

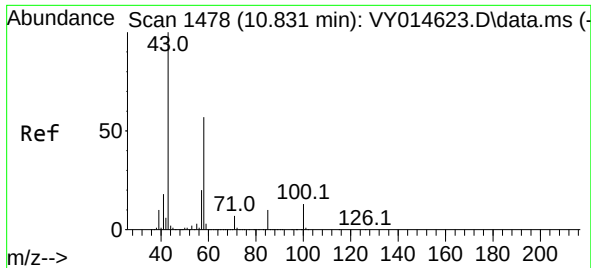
Tgt Ion: 63 Resp: 43398

Ion Ratio Lower Upper

63 100

106 30.6 21.2 31.8





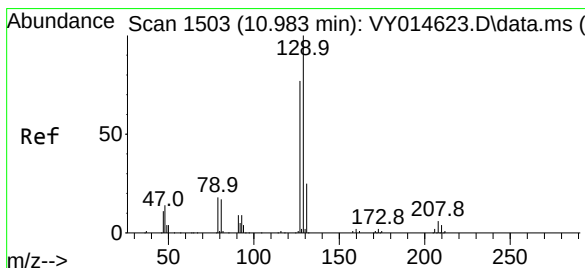
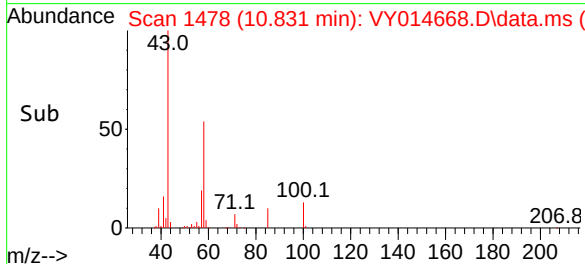
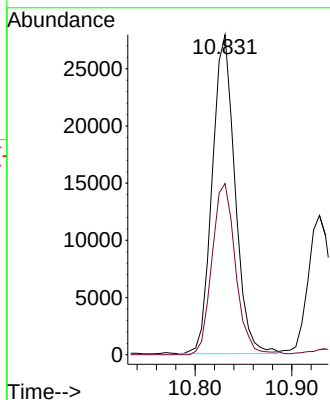
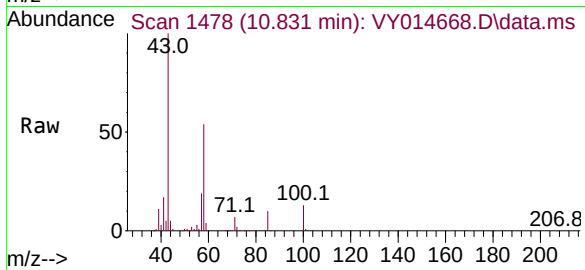
#59
2-Hexanone
Concen: 20.064 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 4542
Ion Ratio Lower Upper
43 100
58 55.8 25.1 75.3

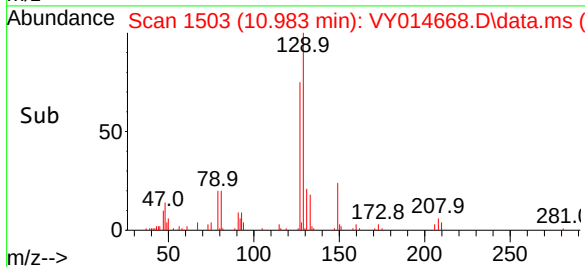
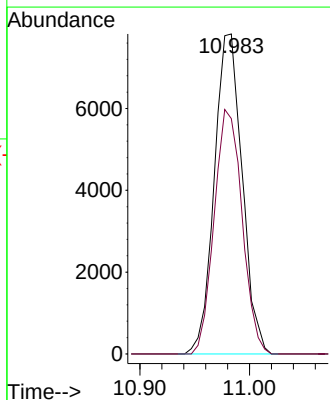
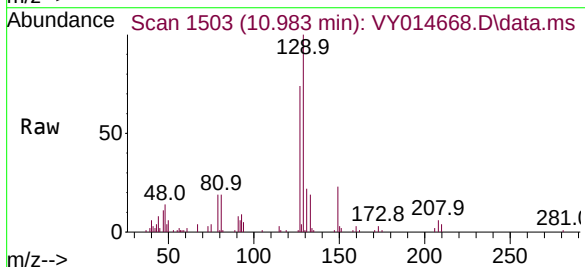
Manual Integrations
APPROVED

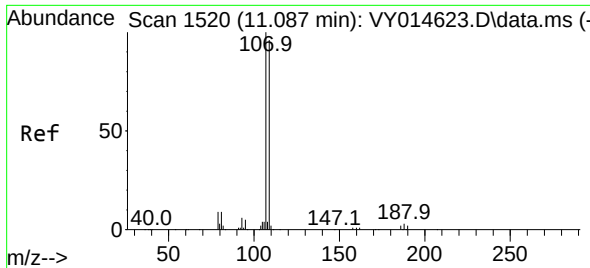
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#60
Dibromochloromethane
Concen: 3.985 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:129 Resp: 13821
Ion Ratio Lower Upper
129 100
127 76.3 38.5 115.5





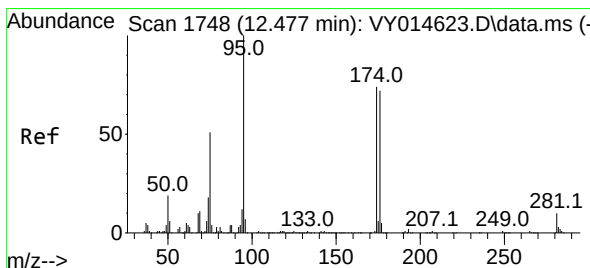
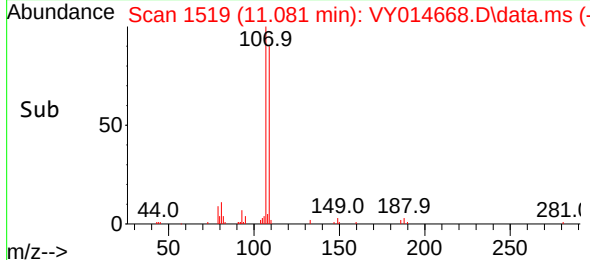
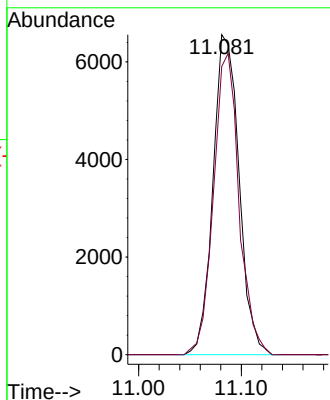
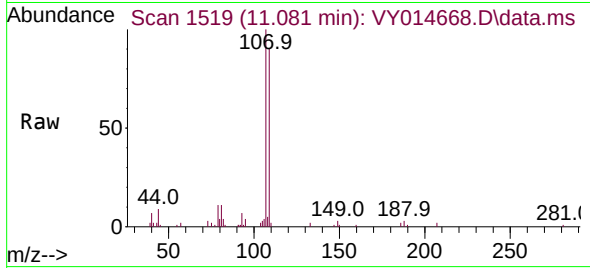
#61
1,2-Dibromoethane
Concen: 4.079 ug/l
RT: 11.081 min Scan# 1519
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:107 Resp: 1151
Ion Ratio Lower Upper
107 100
109 92.4 75.6 113.4

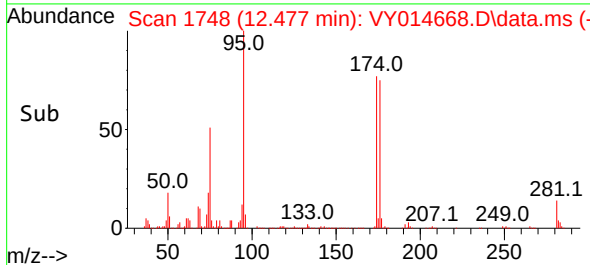
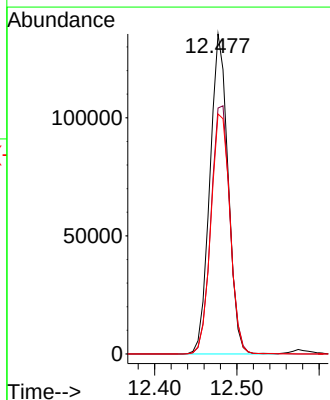
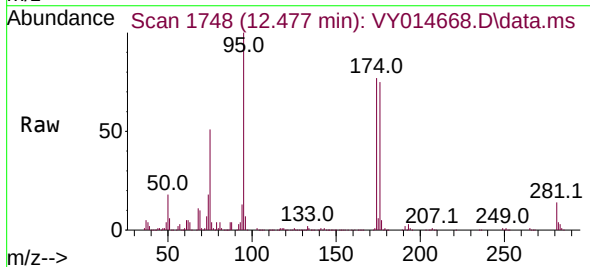
Manual Integrations
APPROVED

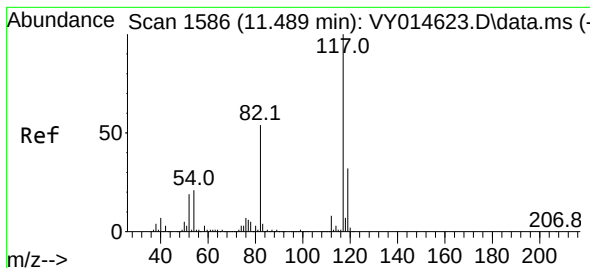
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#62
4-Bromofluorobenzene
Concen: 49.035 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 95 Resp: 208959
Ion Ratio Lower Upper
95 100
174 80.6 0.0 178.2
176 78.8 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

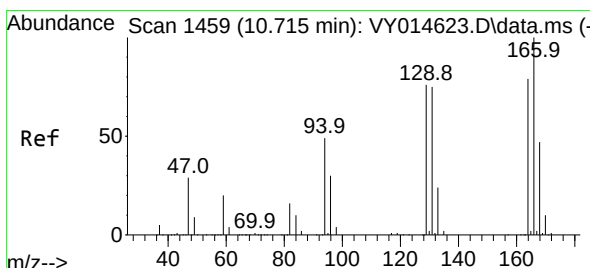
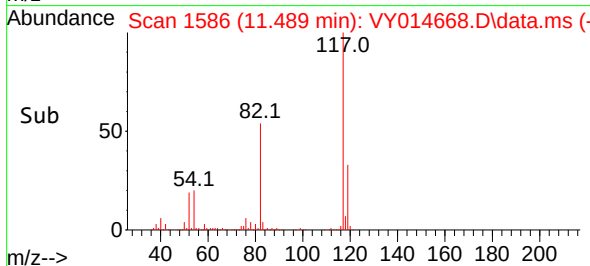
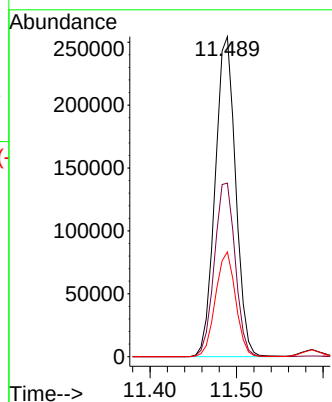
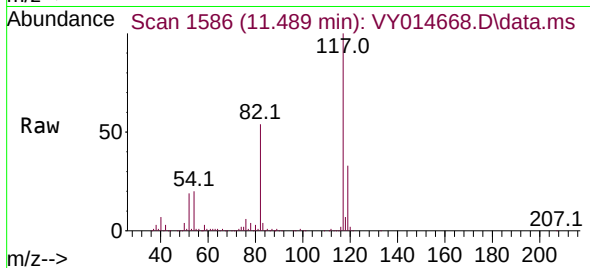
Tgt Ion:	117	Resp:	417624
Ion Ratio	Lower	Upper	
117	100		
82	54.2	43.4	65.0
119	32.8	26.3	39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#64

Tetrachloroethene

Concen: 4.199 ug/l

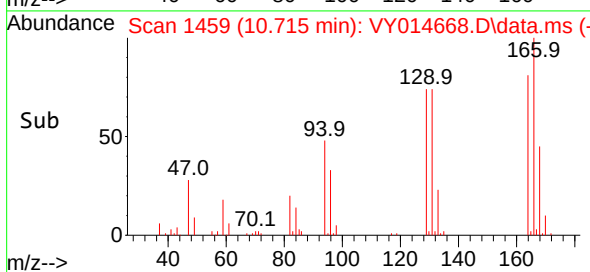
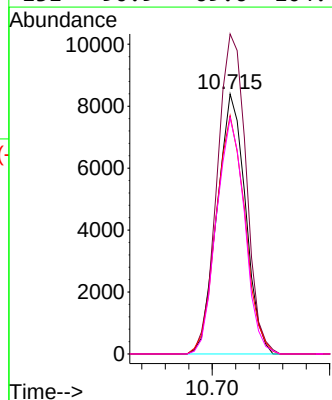
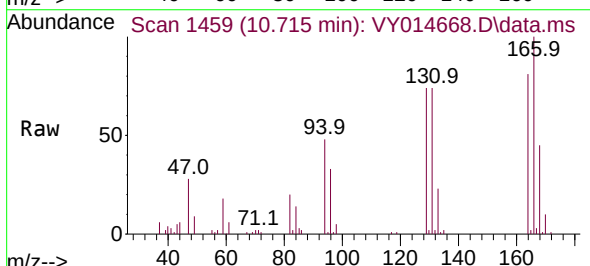
RT: 10.715 min Scan# 1459

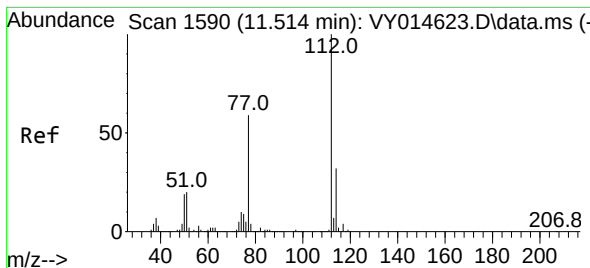
Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

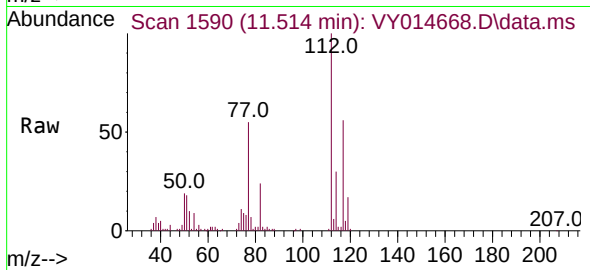
Tgt Ion:	164	Resp:	14105
Ion Ratio	Lower	Upper	
164	100		
166	123.1	103.0	154.6
129	91.6	77.2	115.8
131	90.9	69.6	104.4





#65
Chlorobenzene
Concen: 3.986 ug/l
RT: 11.514 min Scan# 1150
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

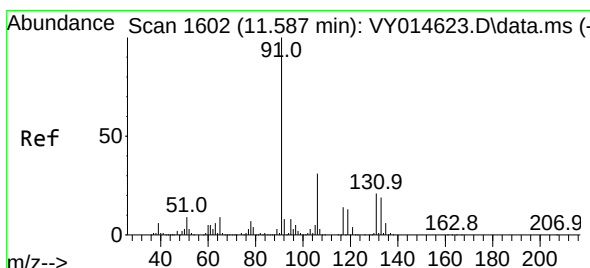
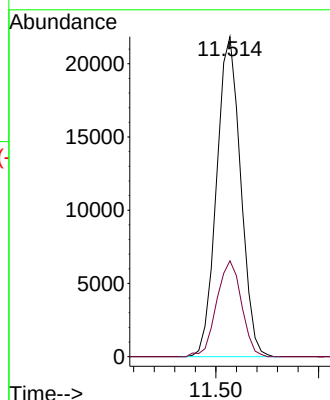
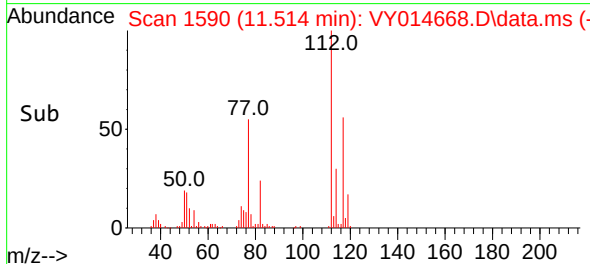
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



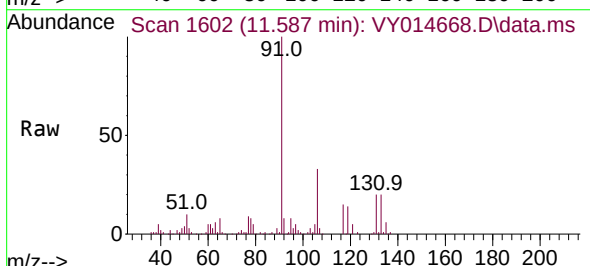
Tgt Ion:112 Resp: 35472
Ion Ratio Lower Upper
112 100
114 30.0 25.5 38.3

Manual Integrations
APPROVED

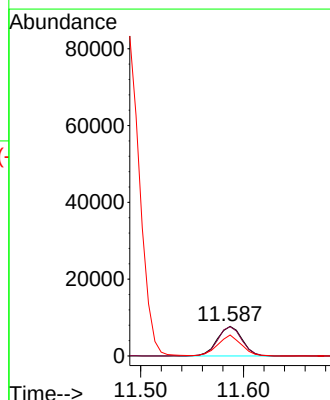
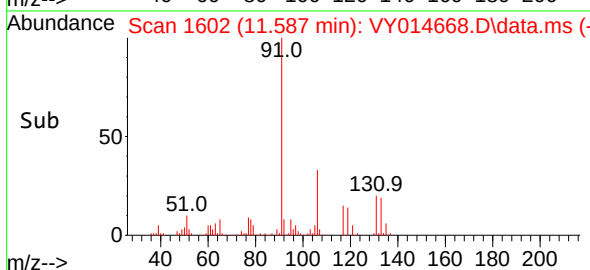
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

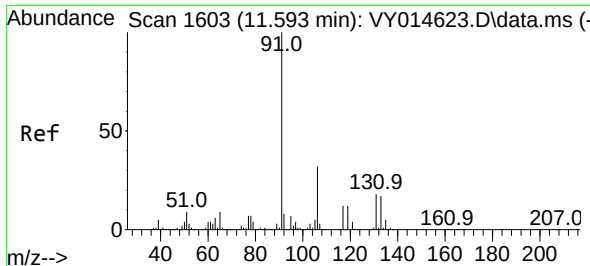


#66
1,1,1,2-Tetrachloroethane
Concen: 3.836 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



Tgt Ion:131 Resp: 12872
Ion Ratio Lower Upper
131 100
133 97.6 47.5 142.6
119 67.5 31.6 94.7





#67

Ethyl Benzene

Concen: 3.832 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 61579

Ion Ratio Lower Upper

91 100

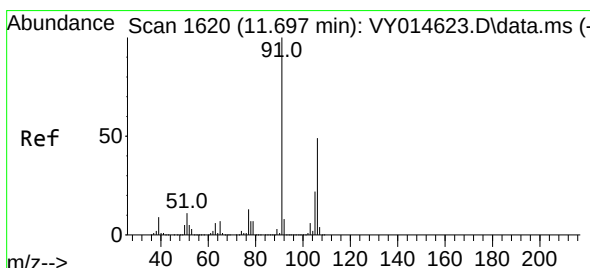
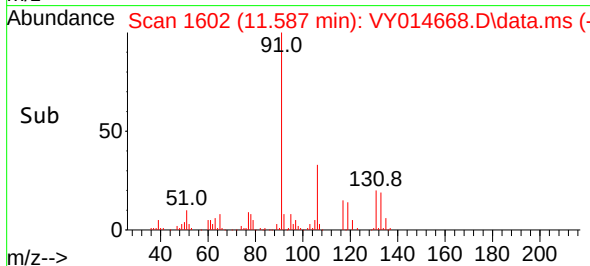
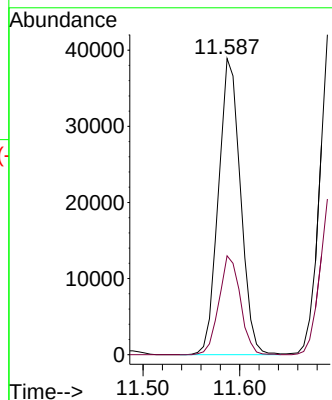
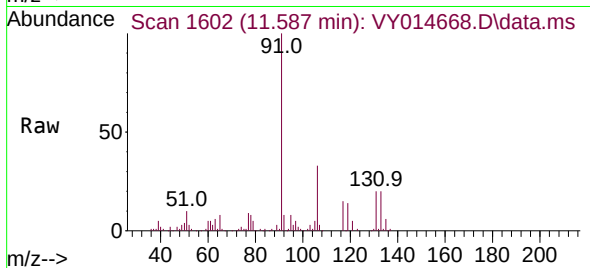
106 33.4 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#68

m/p-Xylenes

Concen: 7.745 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.000 min

Lab File: VY014668.D

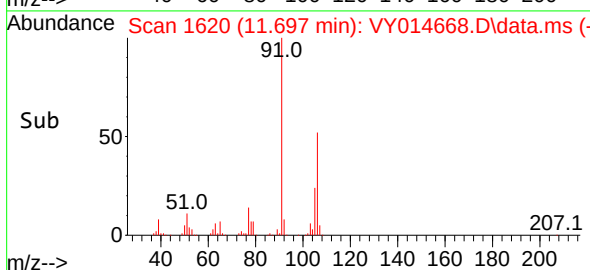
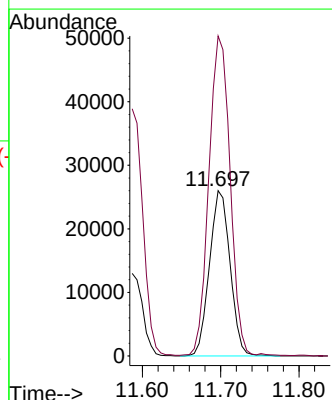
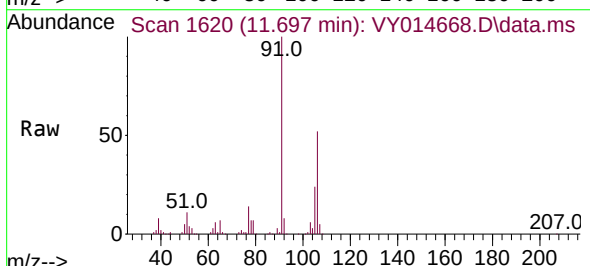
Acq: 17 Jul 2023 13:32

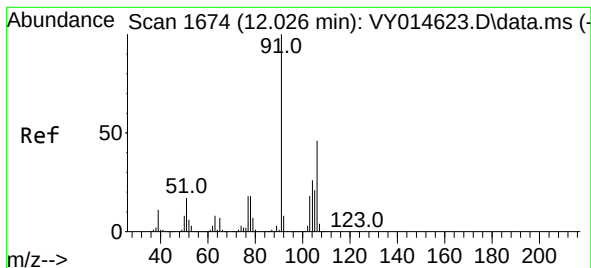
Tgt Ion:106 Resp: 47504

Ion Ratio Lower Upper

106 100

91 198.0 166.1 249.1





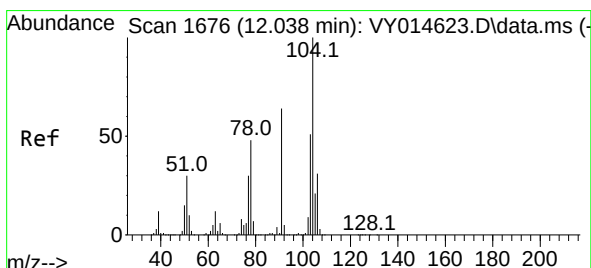
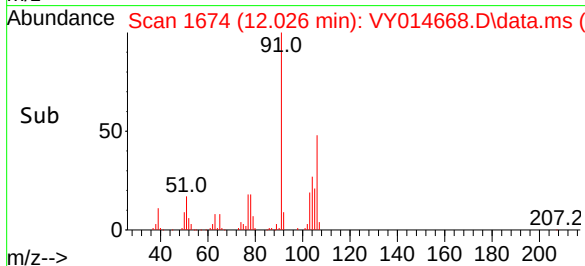
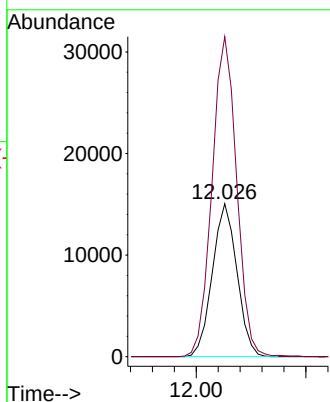
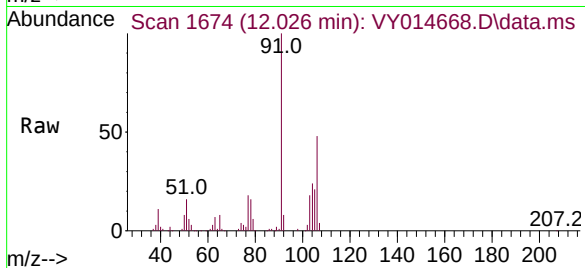
#69
o-Xylene
Concen: 3.927 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:106 Resp: 2346
Ion Ratio Lower Upper
106 100
91 209.9 108.1 324.3

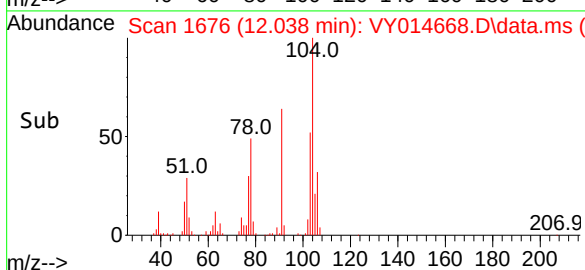
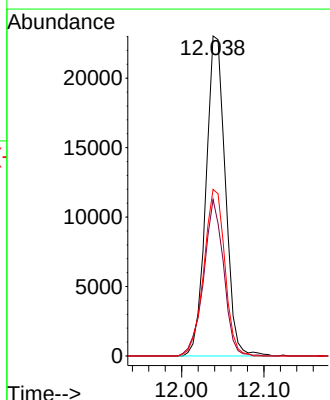
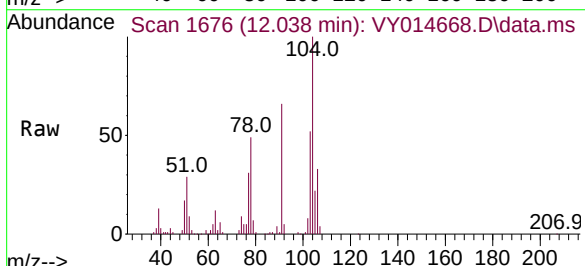
Manual Integrations
APPROVED

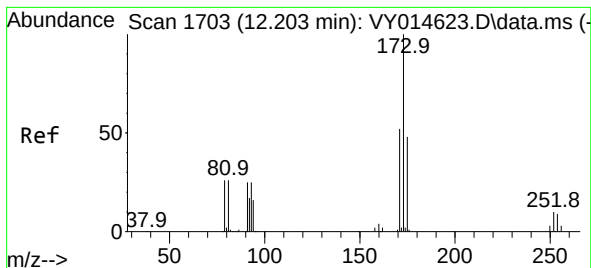
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#70
Styrene
Concen: 3.744 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:104 Resp: 37697
Ion Ratio Lower Upper
104 100
78 50.1 41.5 62.3
103 56.3 44.6 67.0





#71

Bromoform

Concen: 4.029 ug/l

RT: 12.203 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

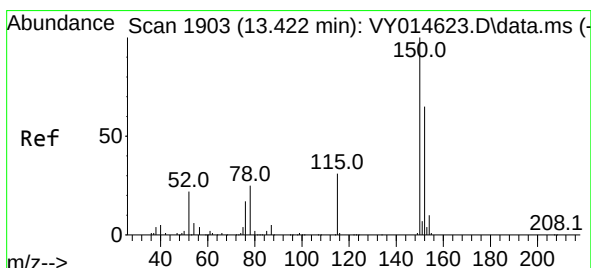
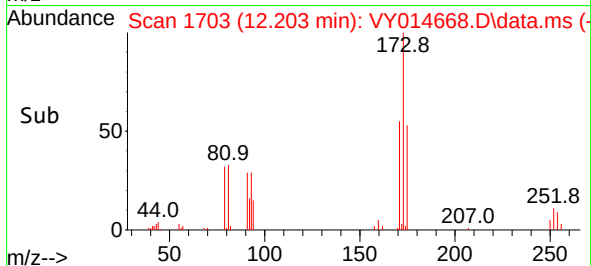
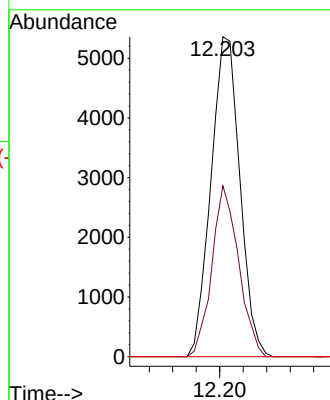
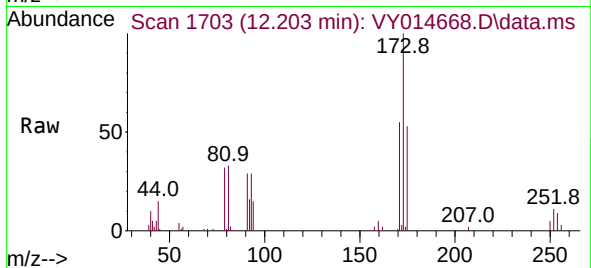
Tgt Ion:	173	Resp:	916
Ion Ratio	Lower	Upper	
173	100		
175	49.4	24.6	73.8
254	0.0	0.2	0.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

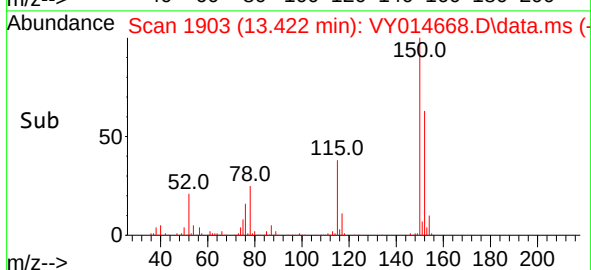
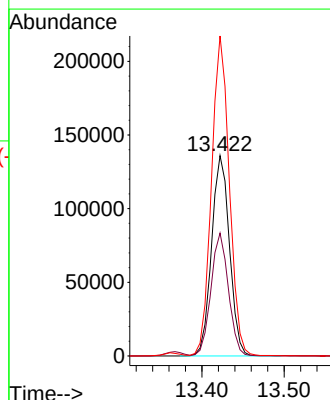
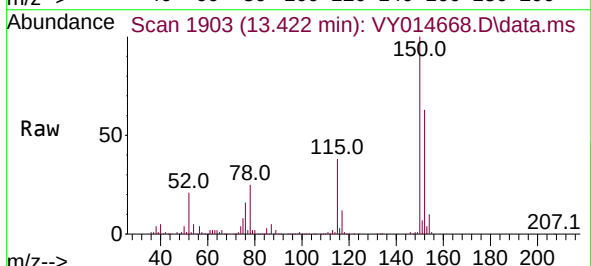
RT: 13.422 min Scan# 1903

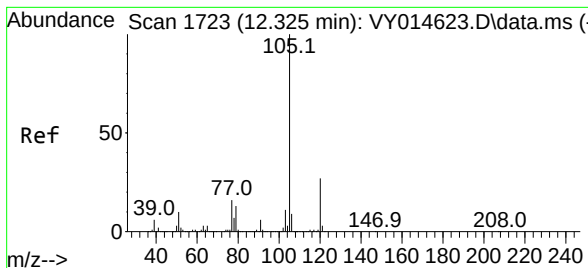
Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion:	152	Resp:	205981
Ion Ratio	Lower	Upper	
152	100		
115	59.9	28.8	86.5
150	158.5	0.0	348.8





#73

Isopropylbenzene

Concen: 3.756 ug/l

RT: 12.325 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

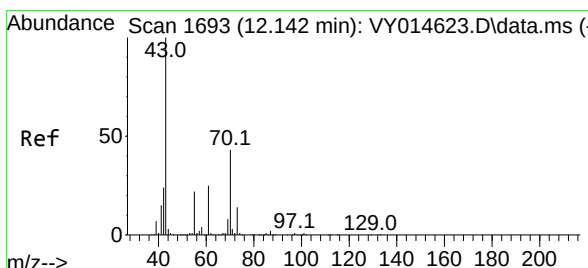
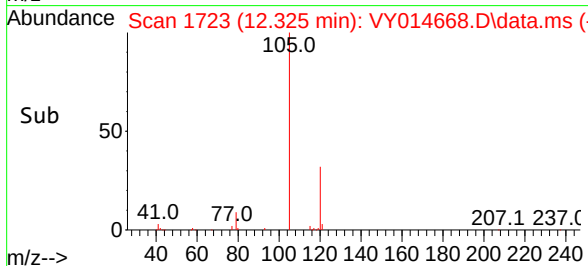
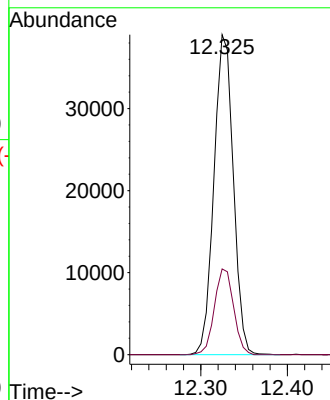
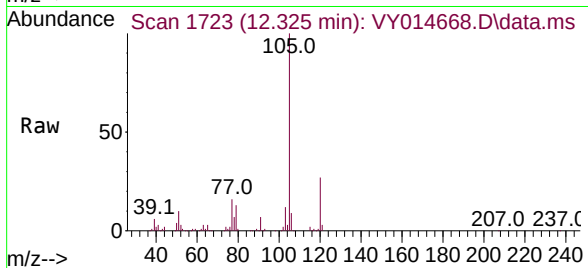
Tgt Ion:105 Resp: 60579
 Ion Ratio Lower Upper
 105 100
 120 26.5 13.3 39.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#74

N-ethyl acetate

Concen: 3.651 ug/l

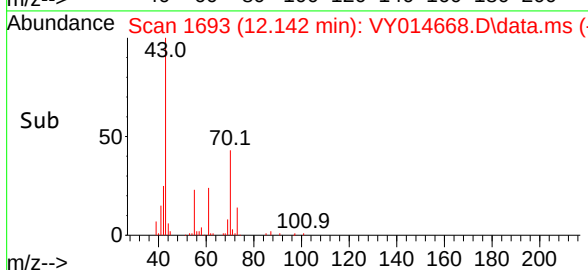
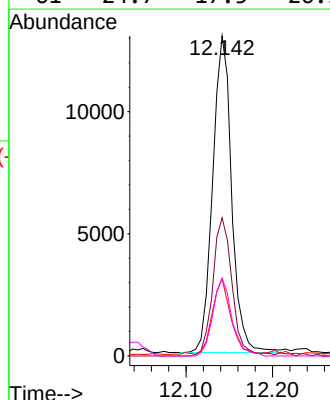
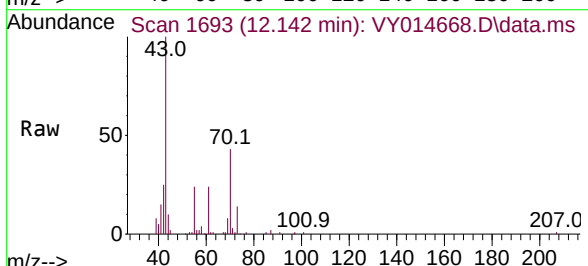
RT: 12.142 min Scan# 1693

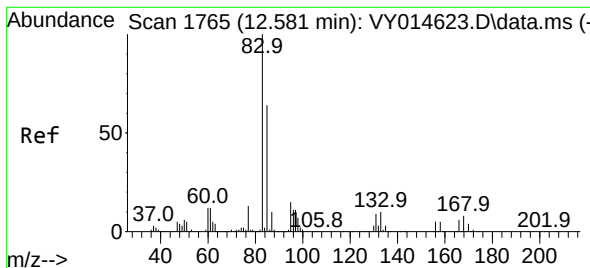
Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

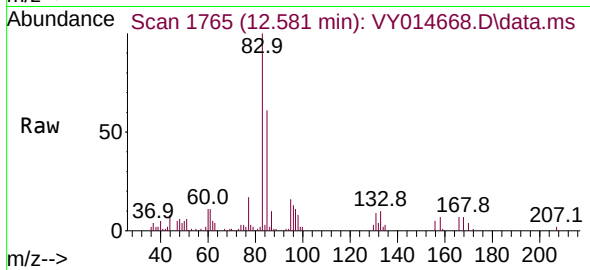
Tgt Ion: 43 Resp: 19719
 Ion Ratio Lower Upper
 43 100
 70 44.3 29.7 44.5
 55 23.4 18.3 27.5
 61 24.7 17.5 26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 3.846 ug/l
RT: 12.581 min Scan# 1765
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

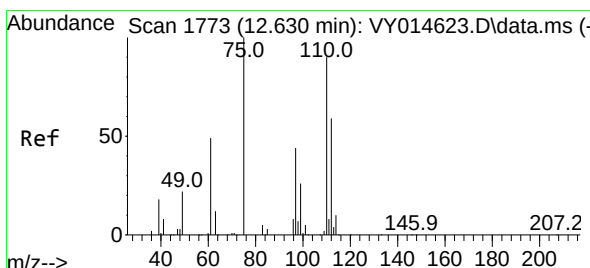
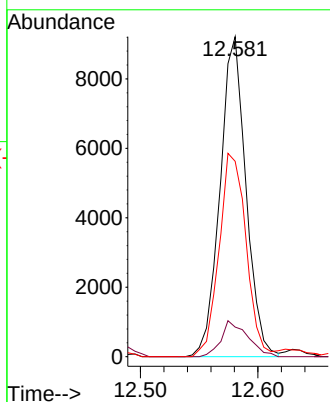
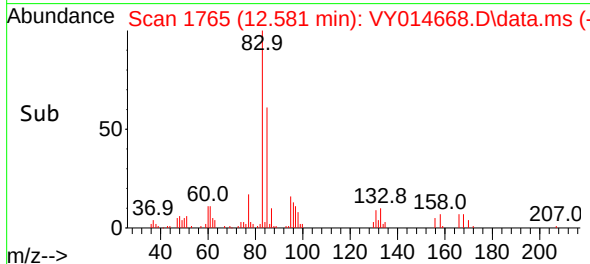
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 83 Resp: 1414
Ion Ratio Lower Upper
83 100
131 11.5 5.4 16.2
85 66.5 31.8 95.4

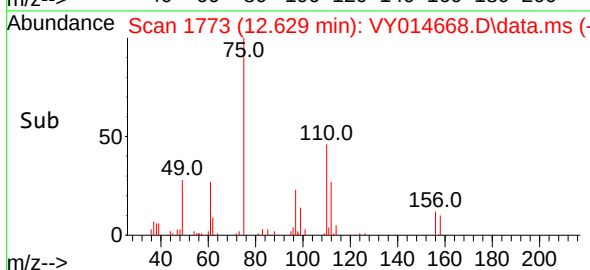
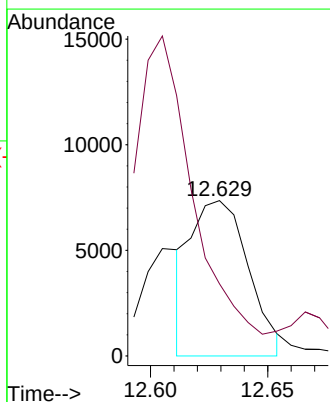
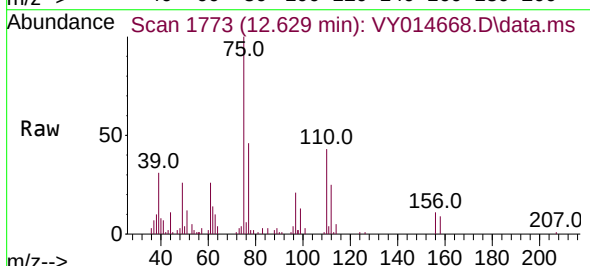
Manual Integrations
APPROVED

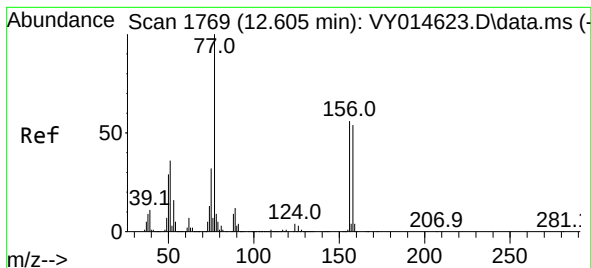
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#76
1,2,3-Trichloropropane
Concen: 4.798 ug/l m
RT: 12.629 min Scan# 1773
Delta R.T. -0.001 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 75 Resp: 12482
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 3.807 ug/l

RT: 12.605 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

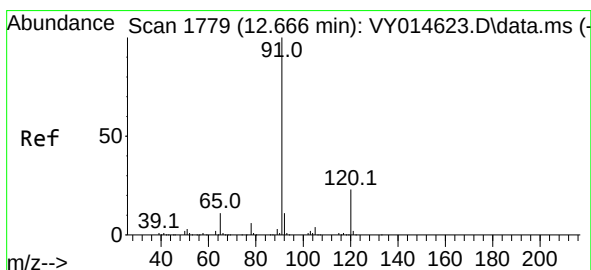
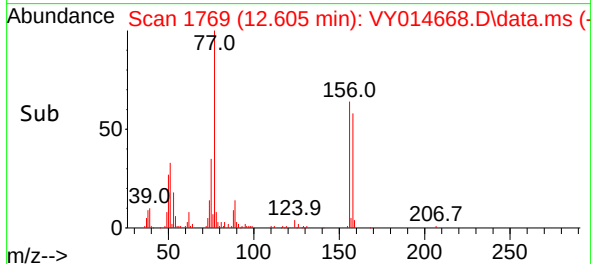
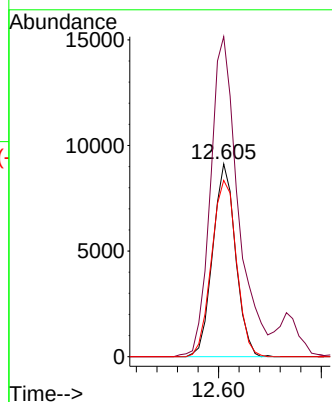
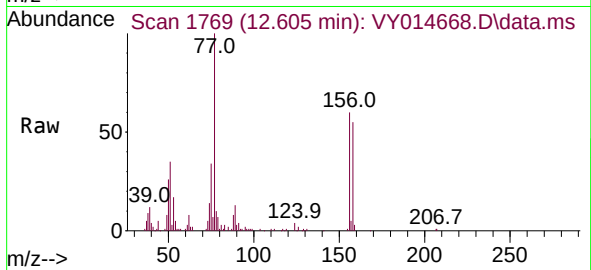
Tgt Ion:	156	Resp:	14010
Ion Ratio	Lower	Upper	
156	100		
77	201.6	92.8	278.6
158	99.9	48.4	145.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#78

n-propylbenzene

Concen: 3.672 ug/l

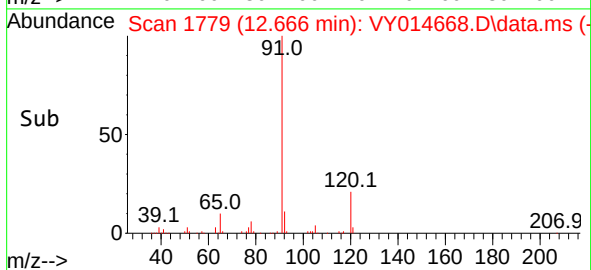
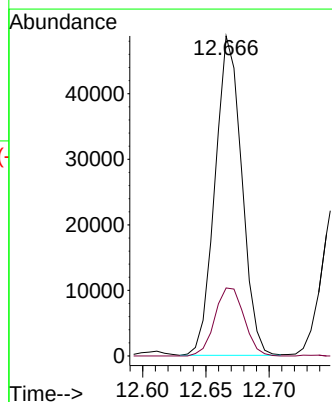
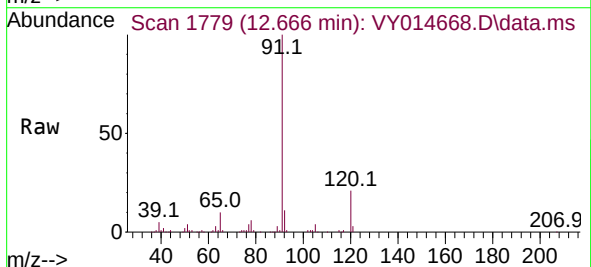
RT: 12.666 min Scan# 1779

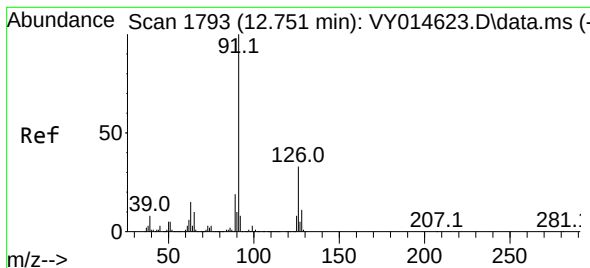
Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion:	91	Resp:	71369
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.5	34.4





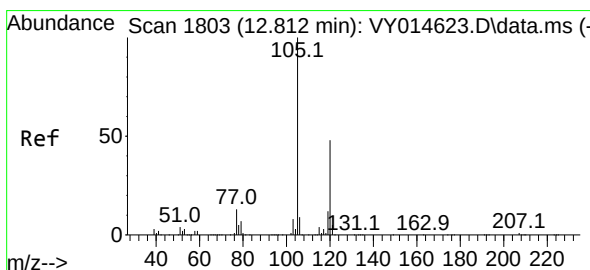
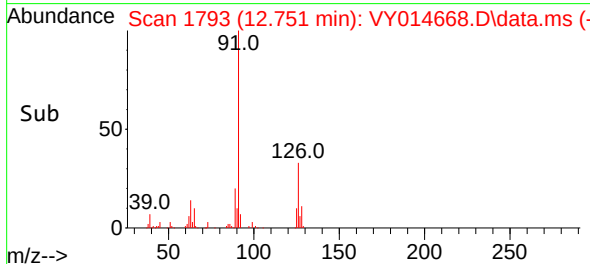
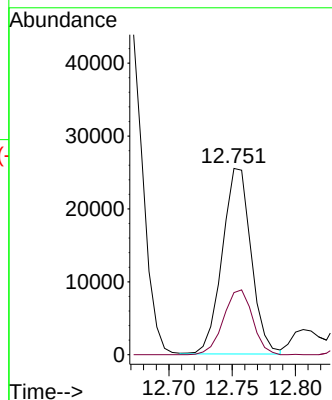
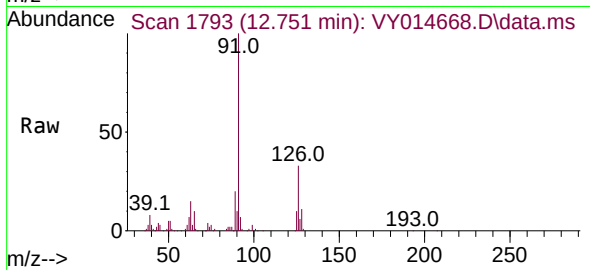
#79
2-Chlorotoluene
Concen: 3.622 ug/l
RT: 12.751 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 4054
Ion Ratio Lower Upper
91 100
126 35.0 17.3 51.7

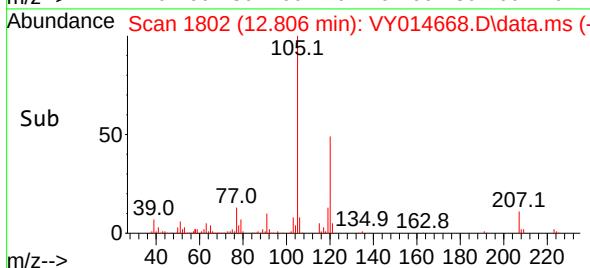
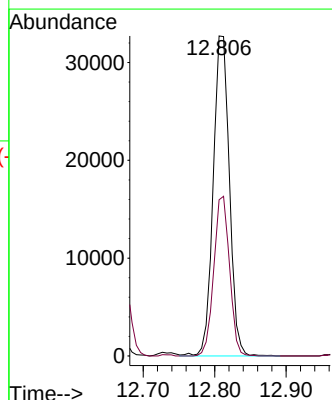
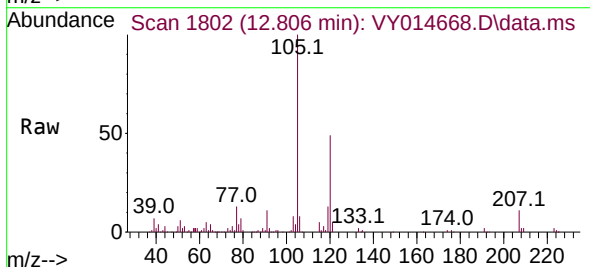
Manual Integrations
APPROVED

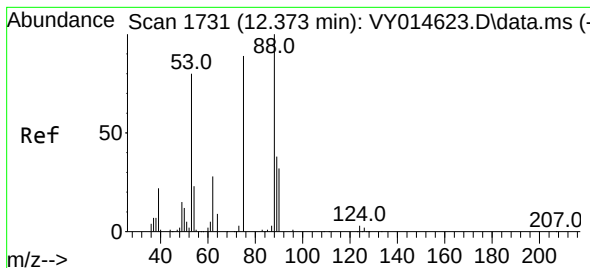
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#80
1,3,5-Trimethylbenzene
Concen: 3.818 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

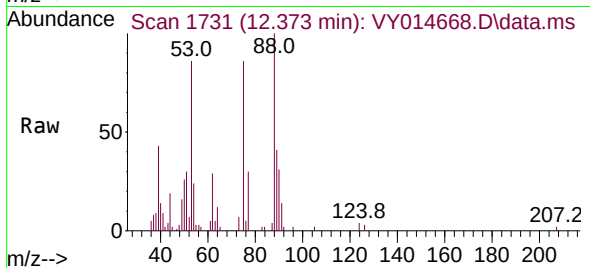
Tgt Ion:105 Resp: 51427
Ion Ratio Lower Upper
105 100
120 48.5 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 3.590 ug/l
RT: 12.373 min Scan# 1731
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

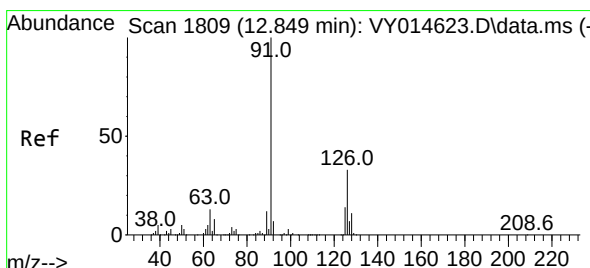
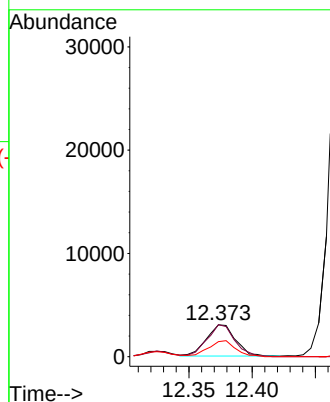
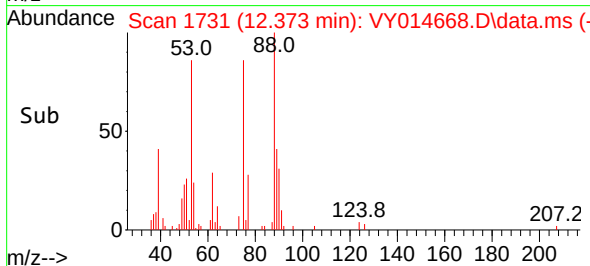
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 75 Resp: 482
Ion Ratio Lower Upper
75 100
53 98.3 77.8 116.8
89 47.8 37.4 56.0

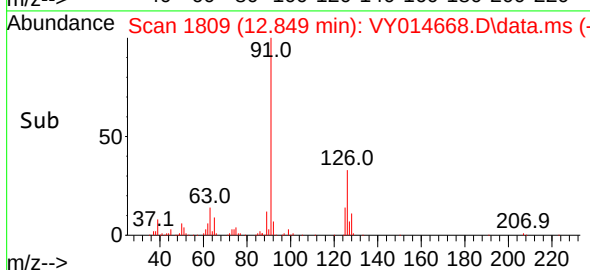
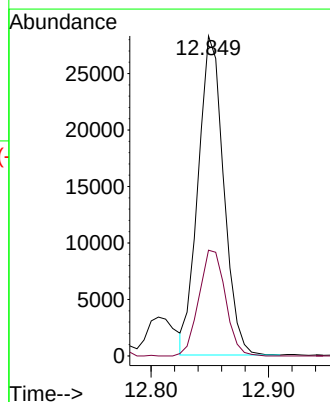
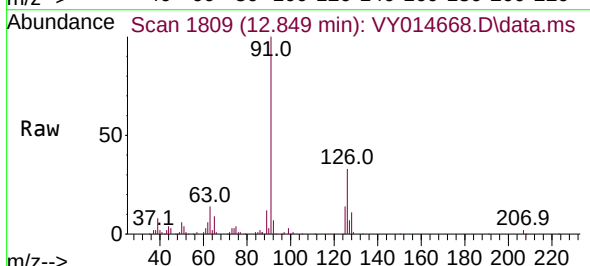
Manual Integrations
APPROVED

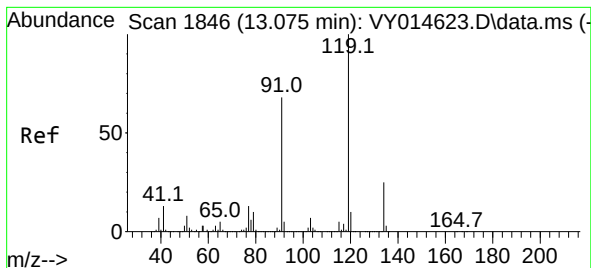
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#82
4-Chlorotoluene
Concen: 3.701 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 91 Resp: 42663
Ion Ratio Lower Upper
91 100
126 34.4 17.2 51.6





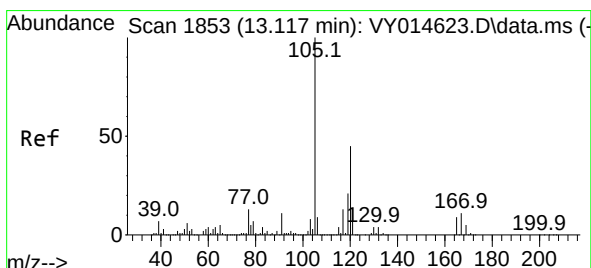
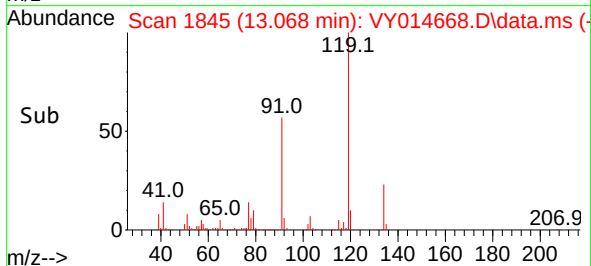
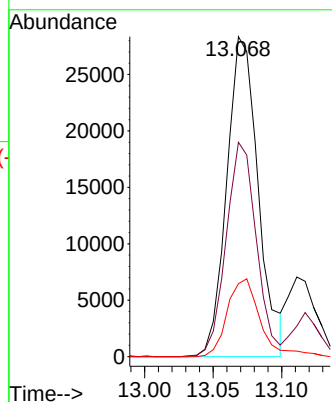
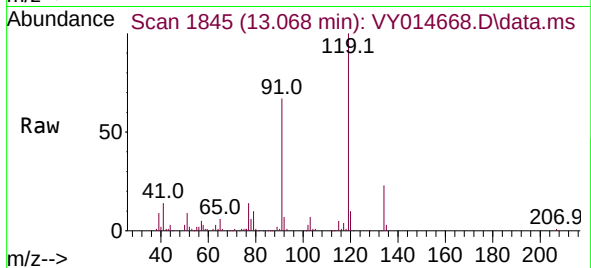
#83
tert-Butylbenzene
Concen: 3.795 ug/l
RT: 13.068 min Scan# 1846
Delta R.T. -0.007 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion:119 Resp: 4534
Ion Ratio Lower Upper
119 100
91 64.5 32.9 98.6
134 25.6 13.0 38.9

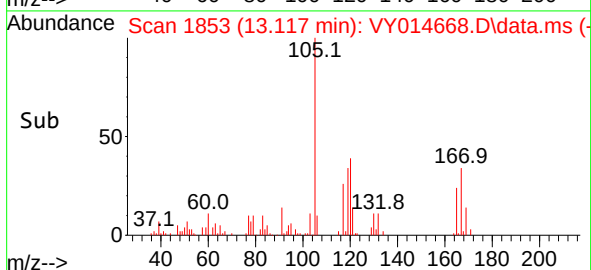
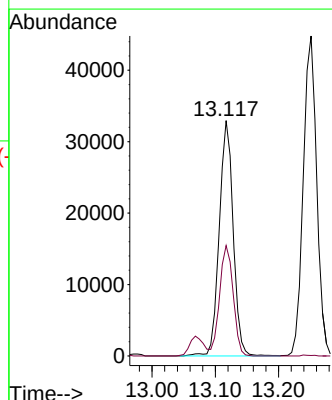
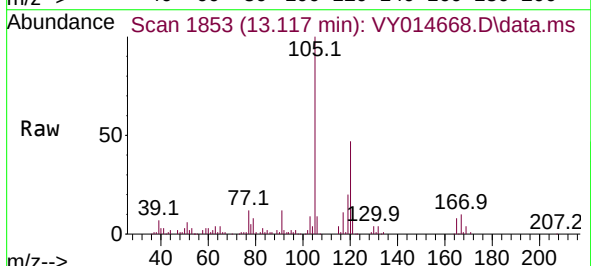
Manual Integrations
APPROVED

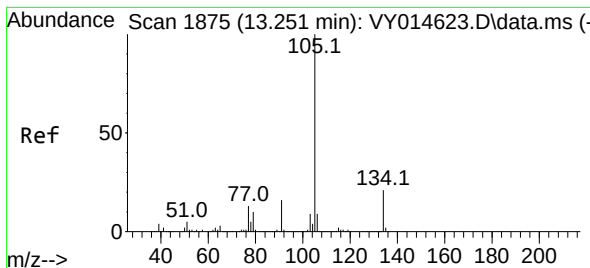
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#84
1,2,4-Trimethylbenzene
Concen: 3.793 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:105 Resp: 50143
Ion Ratio Lower Upper
105 100
120 45.2 22.2 66.6





#85

sec-Butylbenzene

Concen: 3.753 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:105 Resp: 6578

Ion Ratio Lower Upper

105 100

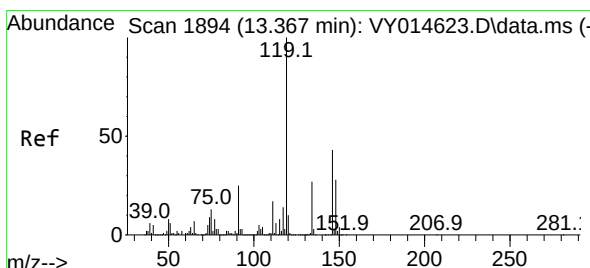
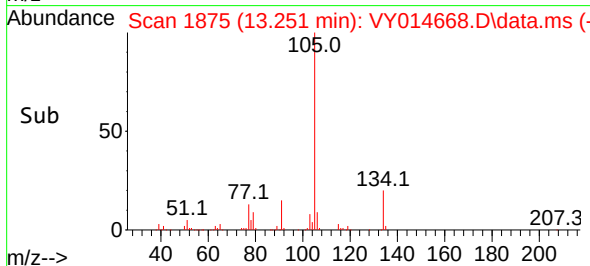
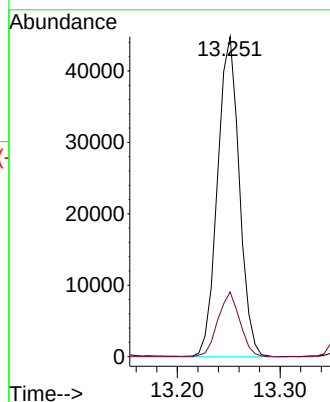
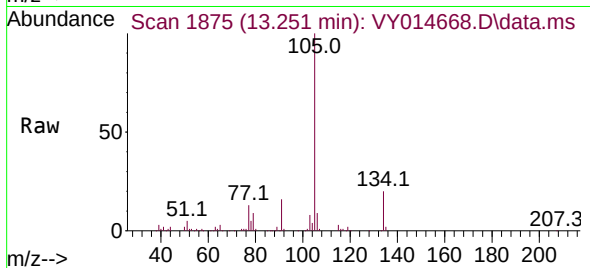
134 20.3 10.2 30.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#86

p-Isopropyltoluene

Concen: 3.791 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

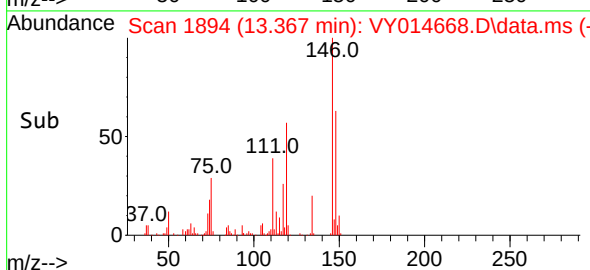
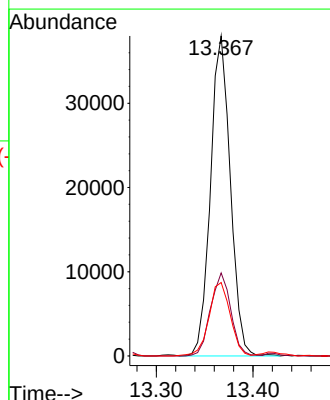
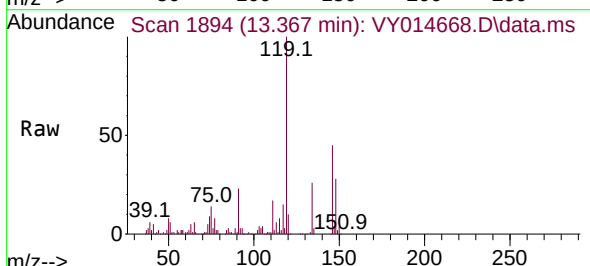
Tgt Ion:119 Resp: 54258

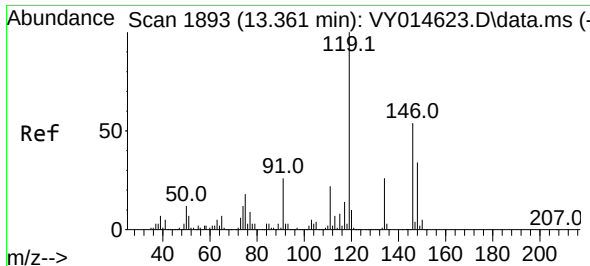
Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.8

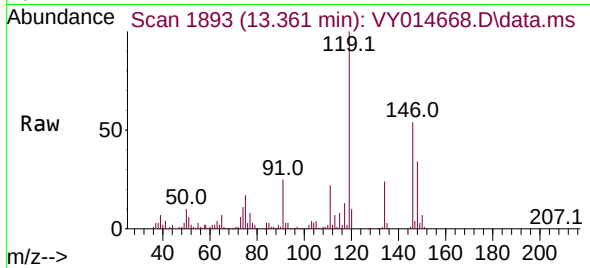
91 24.6 12.4 37.4





#87
1,3-Dichlorobenzene
Concen: 3.929 ug/l
RT: 13.361 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

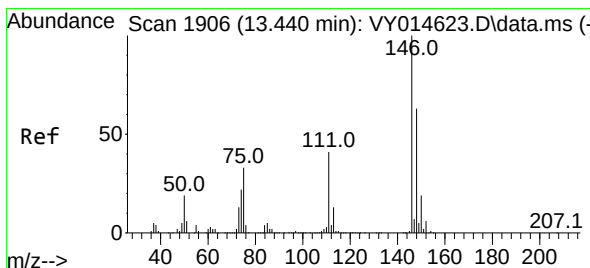
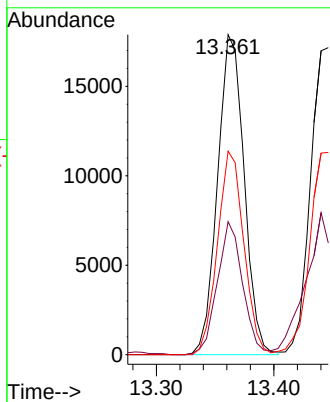
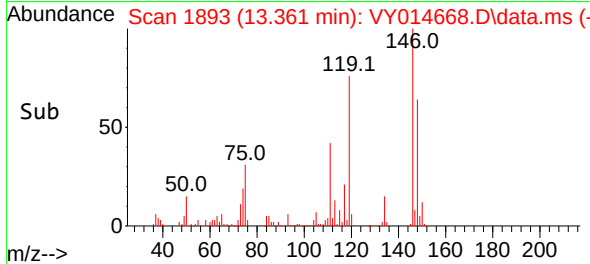
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



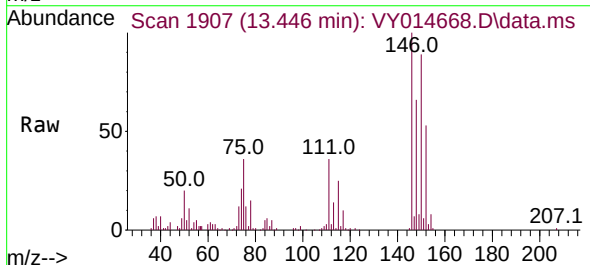
Tgt Ion:146 Resp: 28150
Ion Ratio Lower Upper
146 100
111 39.8 19.4 58.2
148 63.0 31.9 95.5

Manual Integrations
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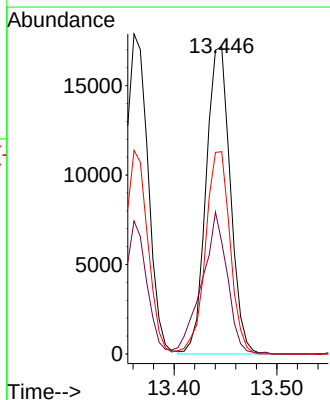
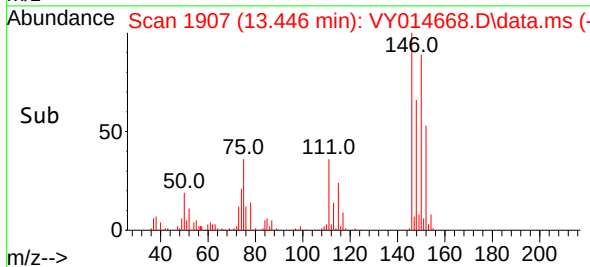
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

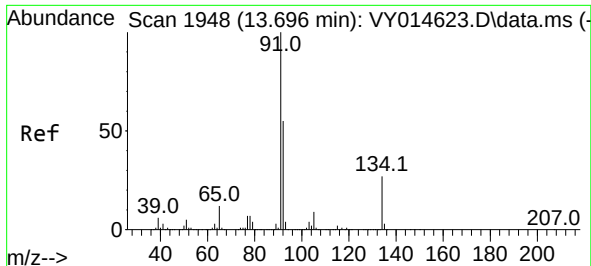


#88
1,4-Dichlorobenzene
Concen: 3.912 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32



Tgt Ion:146 Resp: 28086
Ion Ratio Lower Upper
146 100
111 48.5 18.9 56.7
148 67.1 32.1 96.5





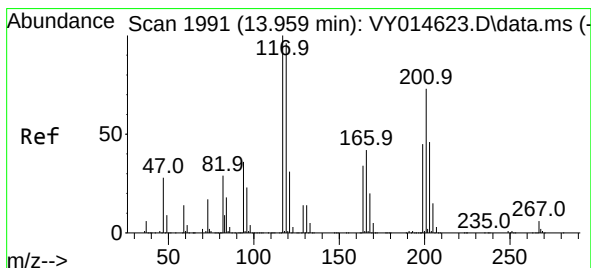
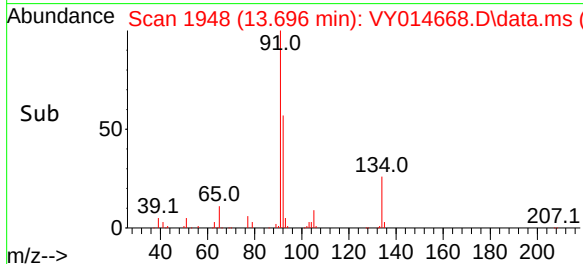
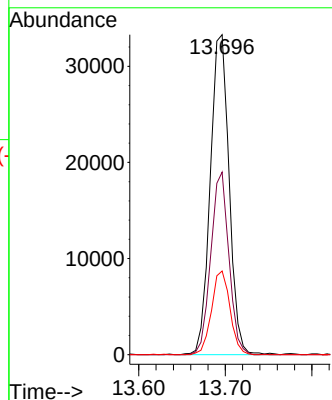
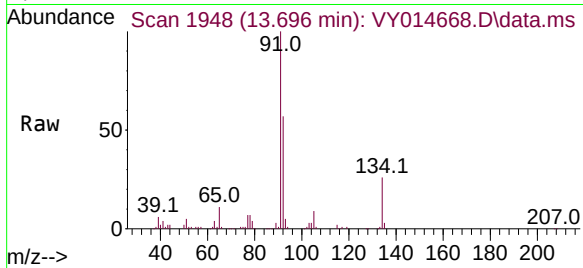
#89
n-Butylbenzene
Concen: 3.616 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 50350
Ion Ratio Lower Upper
91 100
92 54.7 25.4 76.0
134 25.6 12.6 37.6

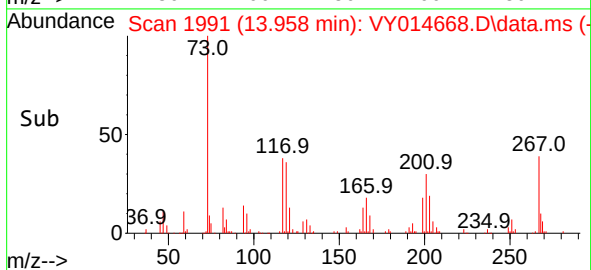
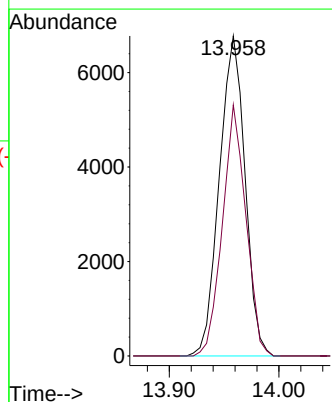
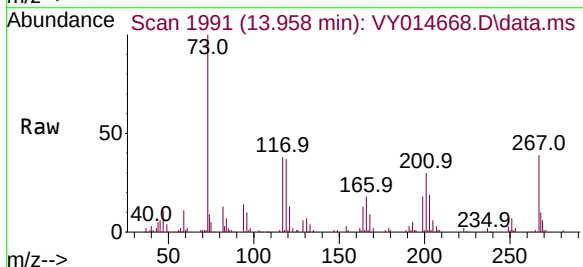
Manual Integrations
APPROVED

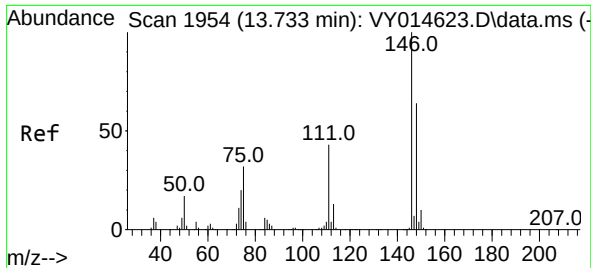
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#90
Hexachloroethane
Concen: 3.748 ug/l
RT: 13.958 min Scan# 1991
Delta R.T. -0.001 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion:117 Resp: 11017
Ion Ratio Lower Upper
117 100
201 72.0 41.6 124.8





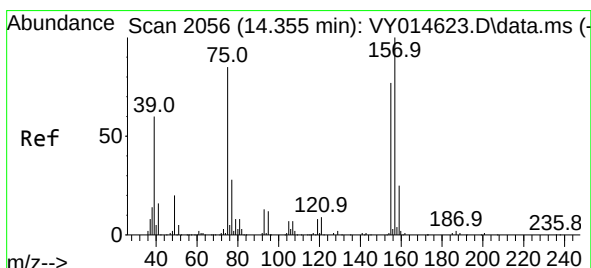
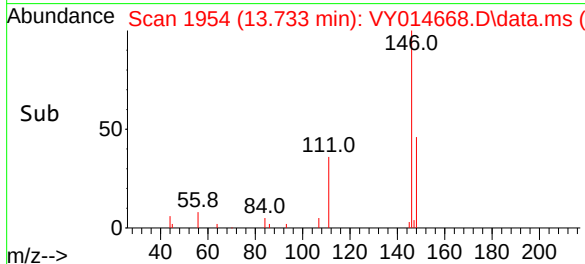
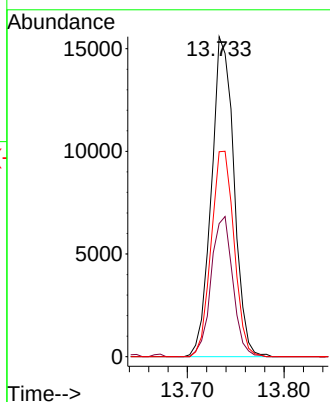
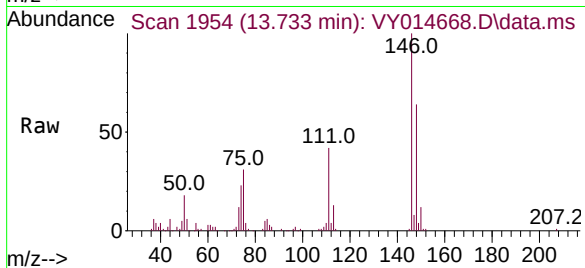
#91
1,2-Dichlorobenzene
Concen: 3.838 ug/l
RT: 13.733 min Scan# 1954
Delta R.T. -0.000 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion:146 Resp: 2519
Ion Ratio Lower Upper
146 100
111 42.1 19.7 59.0
148 65.2 32.0 96.2

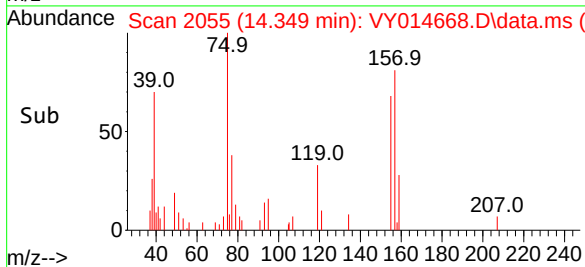
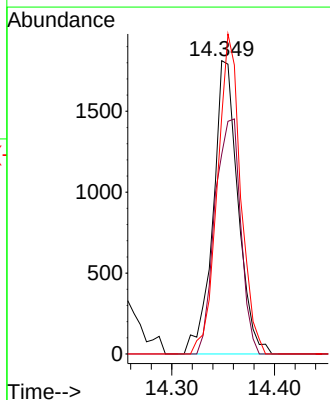
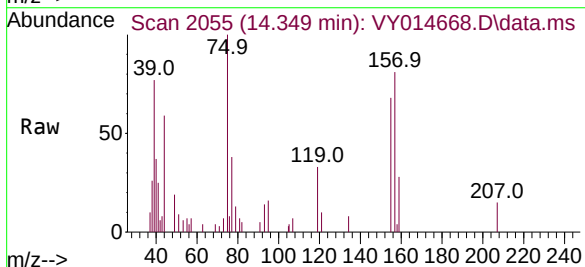
Manual Integrations
APPROVED

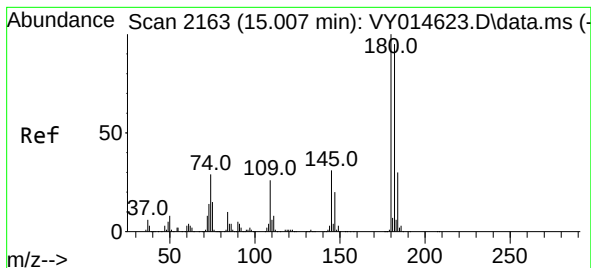
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.343 ug/l
RT: 14.349 min Scan# 2055
Delta R.T. -0.006 min
Lab File: VY014668.D
Acq: 17 Jul 2023 13:32

Tgt Ion: 75 Resp: 3055
Ion Ratio Lower Upper
75 100
155 82.3 41.5 124.6
157 101.3 51.8 155.5





#93

1,2,4-Trichlorobenzene

Concen: 3.837 ug/l

RT: 15.001 min Scan# 2162

Delta R.T. -0.006 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

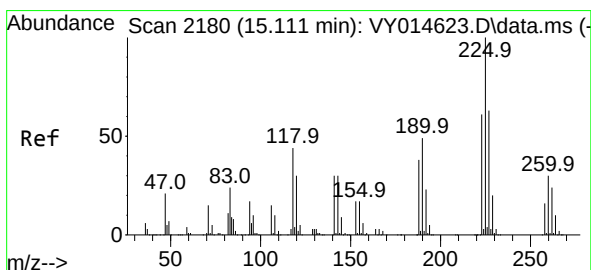
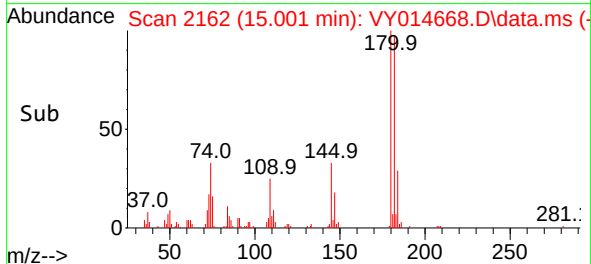
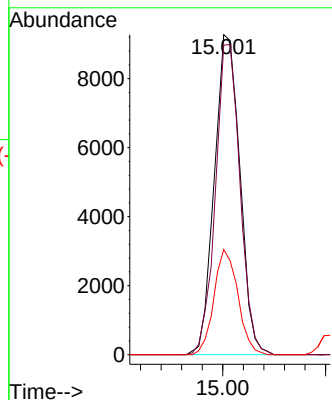
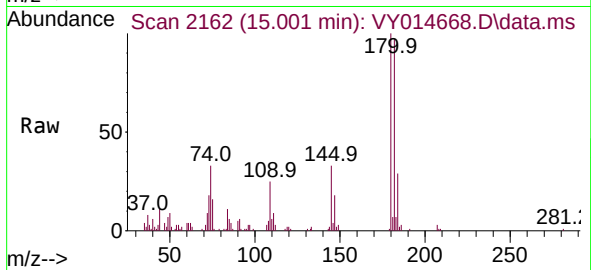
Tgt Ion:180 Resp: 1598
 Ion Ratio Lower Upper
 180 100
 182 93.3 47.0 141.2
 145 30.8 14.5 43.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#94

Hexachlorobutadiene

Concen: 3.905 ug/l

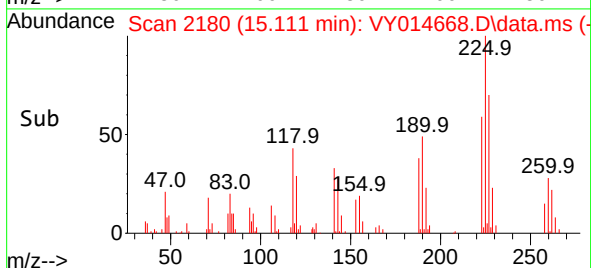
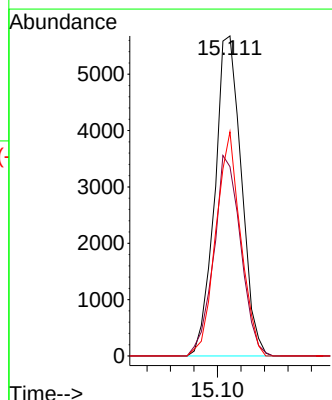
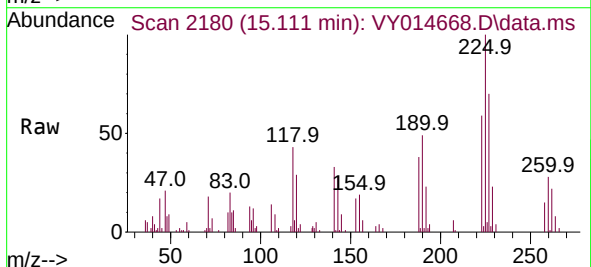
RT: 15.111 min Scan# 2180

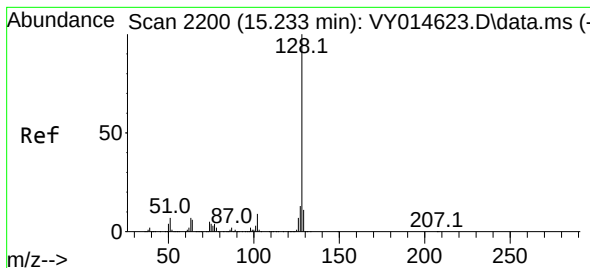
Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion:225 Resp: 8943
 Ion Ratio Lower Upper
 225 100
 223 63.4 31.9 95.9
 227 65.3 33.0 98.9





#95

Naphthalene

Concen: 3.949 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

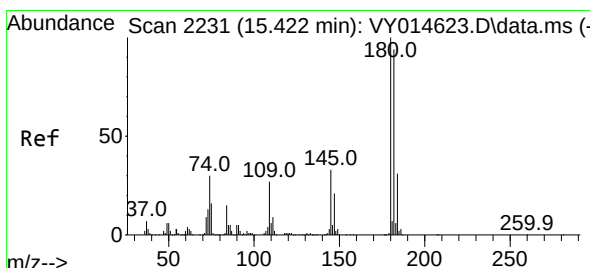
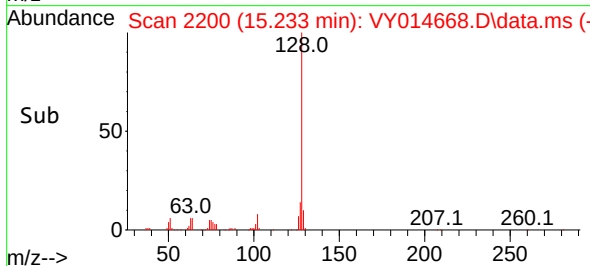
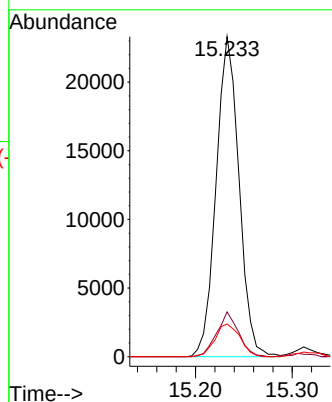
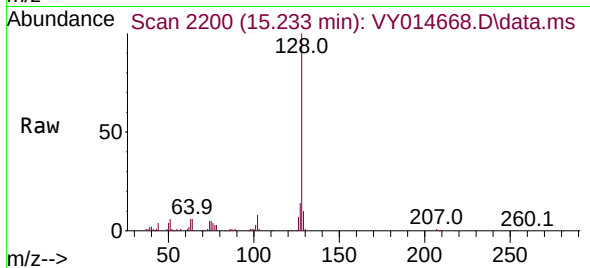
Tgt Ion:128	Resp:	3834
Ion Ratio	Lower	Upper
128	100	
127	13.3	10.8 16.2
129	11.2	8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#96

1,2,3-Trichlorobenzene

Concen: 3.828 ug/l

RT: 15.422 min Scan# 2231

Delta R.T. -0.000 min

Lab File: VY014668.D

Acq: 17 Jul 2023 13:32

Tgt Ion:180	Resp:	14178
Ion Ratio	Lower	Upper
180	100	
182	96.5	47.3 141.8
145	34.6	15.4 46.2

